

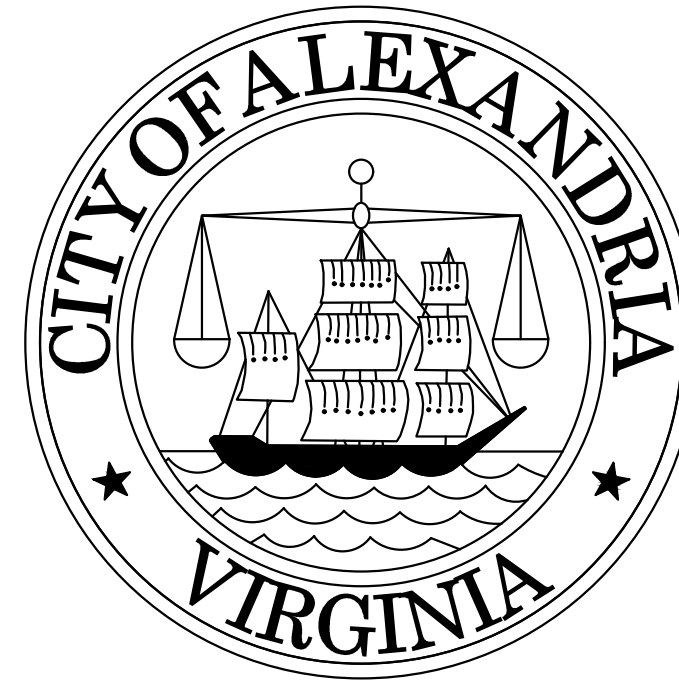
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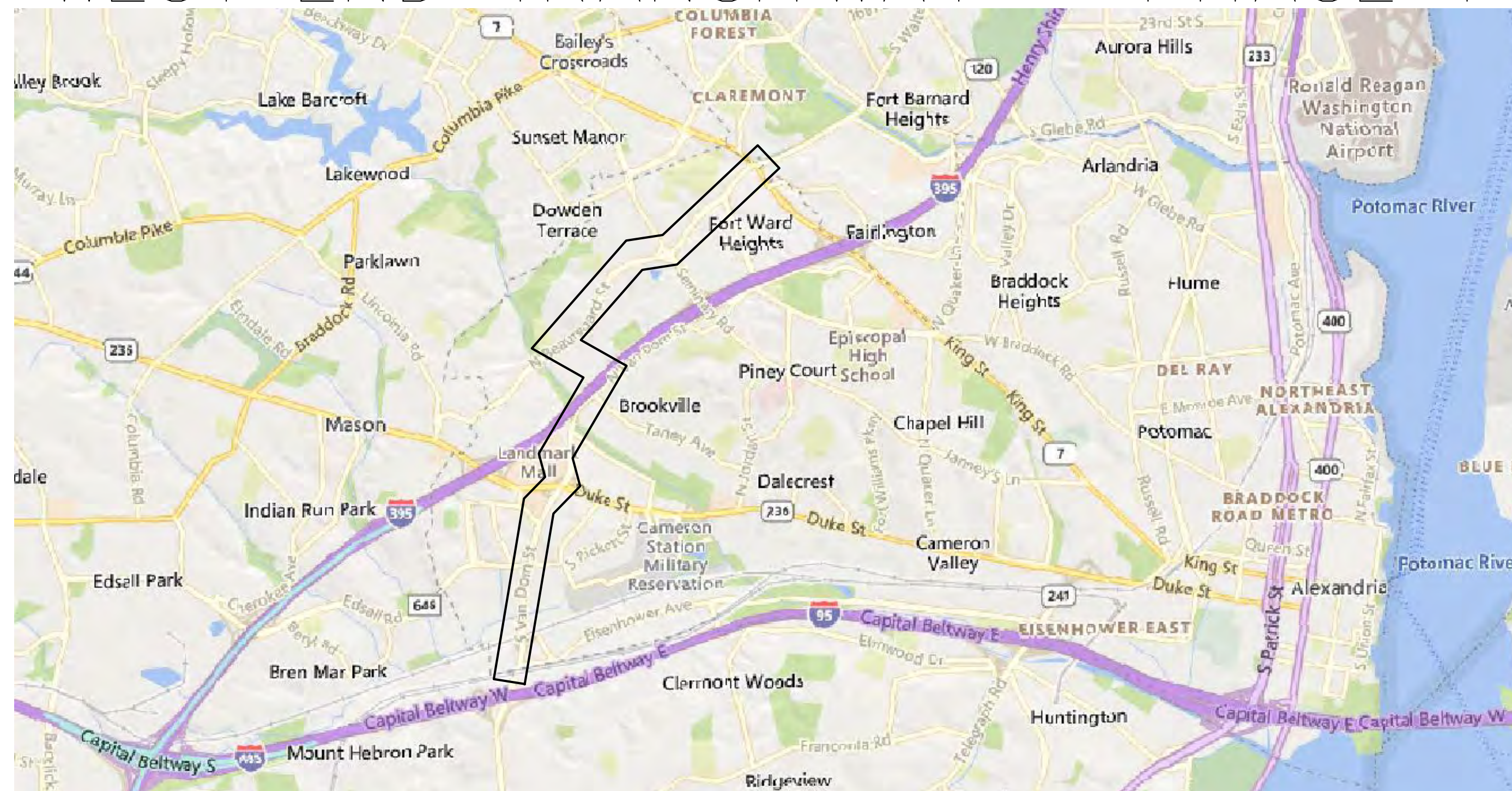
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CITY OF
Alexandria
 VIRGINIA



WEST END TRANSITWAY – PHASE 1



VICINITY MAP
 NTS



PROJECT DESCRIPTION: BUS RAPID TRANSIT (BRT) STATIONS ON VAN DORN STREET BETWEEN METRO ROAD AND SANGER AVENUE AND ON BEAUREGARD STREET BETWEEN SANGER AVENUE AND KING STREET.	
DEPARTMENT OF TRANSPORTATION & ENVIRONMENTAL SERVICES.	
APPROVED	X _____ DATE: _____
DIRECTOR	
RECOMMENDED FOR APPROVAL	X _____ DATE: _____
DEPUTY DIRECTOR OF OPERATIONS	
RECOMMENDED FOR APPROVAL	X _____ DATE: _____
DEPUTY DIRECTOR OF INFRASTRUCTURE & ENVIRONMENTAL QUALITY	
RECOMMENDED FOR APPROVAL	X _____ DATE: _____
DEPUTY DIRECTOR OF RIGHT-OF-WAY & DEVELOPMENT SERVICES	
RECOMMENDED FOR APPROVAL	X _____ DATE: _____
DEPUTY DIRECTOR OF TRANSPORTATION	
DEPARTMENT OF PROJECT IMPLEMENTATION	
APPROVED	X _____ DATE: _____
DIRECTOR	
RECOMMENDED FOR APPROVAL	X _____ DATE: _____
DIVISION CHIEF	

90% DESIGN PHASE

WEST END TRANSITWAY – PHASE 1 IMPROVEMENTS

TITTLE SHEET

SHEET C-001
SCALE NTS

CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

REVISIONS	DATE	DESCRIPTION

ALEXANDRIA PROJECT NO.: 110104122
 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: EJD DATE: 7/11/24
 DRAWN BY: MAT DATE: 7/11/24
 CHECKED BY: EJD DATE: 7/11/24
 APPROVED BY: _____ DATE: _____

PROJECT NARRATIVE

THE PURPOSE OF THE PROJECT IS TO PROVIDE BUS RAPID TRANSIT (BRT) STATIONS ON VAN DORN STREET BETWEEN METRO ROAD AND SANGER AVENUE AND ON BEAUREGARD STREET BETWEEN SANGER AVENUE AND KING STREET.

EXISTING CONDITIONS SURVEY NOTES

- HORIZONTAL DATUM: NAD 1983
VERTICAL DATUM: NAVD 1988
- UTILITY AND TOPOGRAPHY INFORMATION, AS SHOWN ON THIS PLAN, IS TAKEN FROM THE RECORDS AND/OR FIELD SURVEY COMPLETED BY PRECISION MEASUREMENTS, INC. AND ACCUMARK, DATED 02/2023, AND CANNOT BE GUARANTEED. FOR EXACT LOCATIONS OF EXISTING UNDERGROUND UTILITIES, NOTIFY "MISS UTILITY" AT 8-1-1, 72 HOURS BEFORE THE START OF ANY EXCAVATION OR CONSTRUCTION.
- LOCATION AND DEPTH OF ALL EXISTING UNDERGROUND UTILITIES AS WELL AS LOCATION AND CONDITION OF EXISTING FACILITIES AT TIE-IN POINTS ARE TO BE VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION.

CITY STANDARD GENERAL NOTES

- "CITY" MEANS THE CITY OF ALEXANDRIA, A MUNICIPAL CORPORATION OF VIRGINIA AND ITS AUTHORIZED REPRESENTATIVES AND EMPLOYEES.
- TOTAL SITE AREA: 4.875 ACRES OF WHICH 4.875 ACRES WILL BE DISTURBED WITH THIS PROJECT.
- THE NATURAL SOILS AT THE SITE CONSIST OF URBAN LAND (HSG D).
- THE SITE IS LOCATED IN THE CAMERON RUN AND FOUR MILE RUN WATERSHED.
- NOTE TO BE ADDED AFTER REVIEW OF CITY OF ALEXANDRIA RESOURCE PROTECTION AREAS
- ALL NEW CONSTRUCTION WILL CONFORM TO THE CITY OF ALEXANDRIA STANDARD CONSTRUCTION SPECIFICATIONS WEST END TRANSITWAY PHASE I IMPROVEMENTS.
- ALL EROSION AND SEDIMENTATION CONTROL SHALL BE PLACED AND MAINTAINED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE CITY OF ALEXANDRIA AND/OR VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK (VESCH), WHICHEVER IS MORE RESTRICTIVE TAKES PRECEDENCE.
- ANY WORK IN THE PUBLIC RIGHT OF WAY SHALL REQUIRE A SEPARATE PERMIT FROM THE CITY.
- NOTE TO BE ADDED AFTER REVIEW OF CEMETERIES AND BURIAL GROUNDS.

ARCHAEOLOGY NOTES

- THE CONTRACTOR SHALL CALL ALEXANDRIA ARCHAEOLOGY IMMEDIATELY (703-746-4399) IF ANY BURIED STRUCTURAL REMAINS (WALL FOUNDATIONS, WELLS, PRIVIES, CISTERNS, ETC.) OR CONCENTRATIONS OF ARTIFACTS ARE DISCOVERED DURING DEVELOPMENT. WORK MUST CEASE IN THE AREA OF THE DISCOVERY UNTIL A CITY ARCHAEOLOGIST COMES TO THE SITE AND RECORDS THE FINDS.
- THE CONTRACTOR SHALL NOT ALLOW ANY METAL DETECTION TO BE CONDUCTED ON THE PROPERTY, UNLESS AUTHORIZED BY ALEXANDRIA ARCHAEOLOGY.

ENVIRONMENTAL SITE ASSESSMENT

- NOTE TO BE ADDED AFTER ENVIRONMENTAL SITE REVIEW
- THE CITY OF ALEXANDRIA DEPARTMENT OF TRANSPORTATION AND ENVIRONMENTAL SERVICES, DIVISION OF ENVIRONMENTAL QUALITY MUST BE NOTIFIED IF UNUSUAL OR UNANTICIPATED CONTAMINATION OR UNDERGROUND STORAGE TANKS, DRUMS, AND CONTAINERS ARE ENCOUNTERED AT THE SITE. IF THERE IS ANY DOUBT ABOUT PUBLIC SAFETY OR A RELEASE TO THE ENVIRONMENT, THE ALEXANDRIA FIRE DEPARTMENT MUST BE CONTACTED IMMEDIATELY BY CALLING 911. THE TANK OR CONTAINER'S REMOVAL, ITS CONTENTS, ANY SOIL CONTAMINATION AND RELEASES TO THE ENVIRONMENT WILL BE HANDLED IN ACCORDANCE WITH FEDERAL, STATE, AND CITY REGULATIONS.
- ALL CONSTRUCTION ACTIVITIES MUST COMPLY WITH THE ALEXANDRIA NOISE CONTROL CODE TITLE 11, CHAPTER 5, WHICH PERMITS CONSTRUCTION ACTIVITIES TO OCCUR BETWEEN THE FOLLOWING HOURS:
 - MONDAY THROUGH FRIDAY FROM 7 AM TO 6 PM AND
 - SATURDAYS FROM 9 AM TO 6 PM.
 - NO CONSTRUCTION ACTIVITIES ARE PERMITTED ON SUNDAYS.
 - PILE DRIVING IS FURTHER RESTRICTED TO THE FOLLOWING HOURS: MONDAY THROUGH FRIDAY FROM 9 AM TO 6 PM AND SATURDAYS FROM 10 AM TO 4 PM.

UTILITY CONTACTS

DOMINION ENERGY	571-203-5242
VERIZON COMMUNICATIONS	703-819-8822
COMCAST	703-926-0534
WASHINGTON GAS	703-750-4270
PEPCO	202-833-7500
VIRGINIA AMERICAN WATER	703-706-3889
SANITARY SEWER - CITY OF ALEX.	703-746-4014

CONTRACTOR SHALL CONFORM TO THE OVERHEAD HIGH VOLTAGE ACT (EFFECTIVE JULY 1, 2003) AND SHALL CONTACT THE NECESSARY AUTHORITIES PRIOR TO START OF CONSTRUCTION.

RODENT ABATEMENT NOTE

PRIOR TO THE ISSUANCE OF A DEMOLITION PERMIT OR LAND DISTURBANCE PERMIT, A RODENT ABATEMENT PLAN SHALL BE SUBMITTED TO THE CITY OF ALEXANDRIA BUILDING AND FIRE CODE ADMINISTRATION THAT WILL OUTLINE STEPS THAT WILL BE TAKEN TO PREVENT THE SPREAD OF RODENTS FROM THE CONSTRUCTION SITE TO THE SURROUNDING COMMUNITY AND SEWERS. THE CONTRACTOR CAN CONTACT ALEXANDRIA BUILDING AND FIRE CODE ADMINISTRATION DEPARTMENT AT (703) 838-4644 OR (703) 746-4200 FOR ANY QUESTIONS OR ADDITIONAL INFORMATION.

CONSTRUCTION NOTES

- ALL WORK SHALL BE PERFORMED IN STRICT COMPLIANCE WITH THE MOST CURRENT APPLICABLE FEDERAL, STATE, AND LOCAL LAWS AND REGULATIONS, INCLUDING BUT NOT LIMITED, TO ENVIRONMENTAL PROTECTION AGENCY (EPA), OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA), VIRGINIA OCCUPATIONAL AND SAFETY HEALTH COMPLIANCE PROGRAM (VOSH ENFORCEMENT), VIRGINIA OVERHEAD HIGH VOLTAGE LINE SAFETY ACT, NATIONAL EMISSIONS STANDARDS FOR HAZARDOUS AIR POLLUTANTS (NESHAPS), AND NATIONAL INSTITUTE OF OCCUPATIONAL SAFETY AND HEALTH (NIOSH).
- THE EXISTING UNDERGROUND UTILITIES SHOWN HEREON ARE BASED UPON AVAILABLE INFORMATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION OF ALL UTILITIES BEFORE COMMENCING WORK AND FOR ANY DAMAGES WHICH MAY OCCUR BY HIS FAILURE TO LOCATE OR PRESERVE THESE UNDERGROUND UTILITIES. IF DURING CONSTRUCTION OPERATIONS, THE CONTRACTOR SHOULD ENCOUNTER UTILITIES OTHER THAN THOSE SHOWN ON THE PLANS, HE SHALL IMMEDIATELY NOTIFY THE CITY AND TAKE NECESSARY ACTION AND PROPER STEPS TO PROTECT THE FACILITY AND ASSURE THE CONTINUATION OF SERVICE.
- THE CONTRACTOR SHALL DIG TEST PITS AS REQUIRED FOLLOWING NOTIFICATION AND MARKING OF ALL EXISTING UTILITIES TO VERIFY THE LOCATION AND DEPTH OF EXISTING UTILITIES TEST HOLES TO BE PERFORMED AT LEAST 30 DAYS PRIOR TO START OF CONSTRUCTION. ANY DISCREPANCIES ARE TO BE REPORTED IMMEDIATELY TO THE CITY. REDESIGN AND APPROVAL BY REVIEWING AGENCIES SHALL BE OBTAINED, IF REQUIRED.
- THE CONTRACTOR SHALL WORK WITH THE CITY FOR THE COORDINATION OF WORK WITH REPRESENTATIVE UTILITY COMPANIES AND FOR THE IMPLEMENTATION OF REQUIRED UTILITY-RELATED WORK.
- THE CONTRACTOR SHALL VISIT THE SITE AND SHALL VERIFY EXISTING CONDITIONS PRIOR TO STARTING CONSTRUCTION.
- THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE CITY UPON ENCOUNTERING ANY HAZARDOUS MATERIALS DURING DEMOLITION AND/OR CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL DOCUMENT SAME TO THE CITY AND OBTAIN DIRECTION AS TO THE APPROPRIATE ACTION(S) TO BE TAKEN.
- PRIOR TO REMOVAL OF MATERIALS OVER EXISTING UTILITY SYSTEMS, THE CONTRACTOR SHALL DOCUMENT EXISTING CONDITIONS AND, IF AT VARIANCE WITH CONDITIONS AS REPRESENTED ON THE PLANS, NOTIFY THE CITY AND OBTAIN DIRECTION AS TO THE APPROPRIATE ACTION(S) TO BE TAKEN.
- PRIOR TO COMMENCING NEW WORK, THE CONTRACTOR SHALL PROTECT FROM DAMAGE ALL EXISTING ADJACENT AREAS. ALL ADJACENT AREAS DAMAGED DURING DEMOLITION AND/OR CONSTRUCTION ACTIVITIES SHALL BE RESTORED TO ORIGINAL OR BETTER CONDITION AT NO ADDITIONAL COST TO THE CITY.
- THE CONTRACTOR SHALL PROTECT AND PREVENT DAMAGE TO EXISTING UTILITY DISTRIBUTION FACILITIES.
- EXISTING CONSTRUCTION SHALL BE REMOVED TO NEAREST JOINT. NEW CONSTRUCTION SHALL BE PROVIDED AS SHOWN AND ANY DAMAGED AREA SHALL BE REPAIRED TO MATCH CONDITIONS EXISTING PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRS TO THE ADJACENT CURB, GUTTER, AND RIGHT-OF-WAY, IF DAMAGED DURING CONSTRUCTION ACTIVITY AS DETERMINED BY THE CITY.
- TOPS OF EXISTING STRUCTURES WHICH REMAIN IN USE ARE TO BE ADJUSTED IN ACCORDANCE WITH THE GRADING PLAN. ALL PROPOSED STRUCTURE TOP ELEVATIONS ARE TO BE VERIFIED BY THE CONTRACTOR WITH THE SITE GRADING PLANS. IN CASE OF CONFLICT, THE GRADING PLAN SHALL SUPERSEDE PROFILE ELEVATIONS. ADJUSTMENTS TO MEET FINISHED GRADE ELEVATIONS MAY BE REQUIRED.
- THE CONTRACTOR SHALL BACKFILL EXCAVATED AREAS WITH APPROVED MATERIALS AS PER THE REQUIREMENTS OF THE CITY.
- CONSTRUCTION STAKEOUT SHALL BE UNDER THE DIRECT SUPERVISION OF A LICENSED LAND SURVEYOR IN THE COMMONWEALTH OF VIRGINIA. CUT SHEETS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION.
- SMOOTH GRADE SHALL BE MAINTAINED FROM THE CENTERLINE OF THE EXISTING ROAD TO THE PROPOSED ENTRANCE AND/OR CURB & GUTTER TO PRECLUDE THE FORMING OF FALSE AND/OR THE PONDING OF WATER ON THE ROADWAY.
- THE CONTRACTOR MUST ENSURE THAT POSITIVE DRAINAGE OCCURS ON SITE TO PREVENT PONDING OR DRAINAGE PROBLEMS ON ADJACENT PROPERTIES.
- THE CONTRACTOR MUST ENSURE THAT THERE IS NO DISTURBANCE ON ADJACENT PROPERTIES, UNLESS OTHERWISE NOTED ON PLANS.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN UTILITY SERVICES AT ALL TIMES DURING CONNECTION AND/OR CONSTRUCTION.
- THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY FOR THE CONSTRUCTION OF THE IMPROVEMENT WORK.
- THE COST OF INCIDENTAL WORK ASSOCIATED WITH THE PRICING SCHEDULE FOR WHICH THERE ARE NO SPECIFIC CONTRACT ITEMS, SHALL BE CONSIDERED AS PART OF THE GENERAL COST OF DOING THE WORK AND SHALL BE INCLUDED IN THE COST FOR THE VARIOUS CONTRACT ITEMS OR IN THE COST OF MOBILIZATION. NO ADDITIONAL PAYMENT WILL BE MADE THEREFORE.
- EARTHWORK, REMOVAL AND DISPOSAL OF EXCESS SOIL AND/OR UNSUITABLE MATERIAL, PROTECTION OF SUBGRADE FROM INCREMENT WEATHER, AND EXCAVATION: IF NECESSARY, INCLUDING UP TO 12 INCHES DEPTH OF OVER EXCAVATION AND/OR FILL TO FINISHED SUBGRADE WITH #21A AGGREGATE TO ACHIEVE REQUIRED COMPACTION LEVEL SHALL BE CONSIDERED AS PART OF THE GENERAL COST INCIDENTAL TO THE COST OF THE VARIOUS CONTRACT ITEMS LISTED UNDER THE PRICING SCHEDULE.
- CLEAR AND GRUB SHALL INCLUDE, BUT NOT LIMITED TO, THE REMOVAL OF ALL VEGETATION AND STUMPS DOWN TO A MINIMUM OF 6 INCHES BELOW PROPOSED GRADE.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL TRAFFIC CONTROL DURING CONSTRUCTION INCLUDING THE DEVELOPMENT OF TRAFFIC CONTROL PLANS. ALL TRAFFIC CONTROL COSTS FOR ALL STAGES SHALL BE INCLUDED IN THE BID PRICE FOR "MAINTENANCE OF TRAFFIC (LS)"; NO LANES SHALL BE CLOSED DURING CONSTRUCTION. IF LANES NEED TO BE CLOSED TO FACILITATE THE CONSTRUCTION THEN THE CONTRACTOR SHALL PROVIDE A LANE CLOSURE PLAN TO THE SATISFACTION OF THE CITY. TEMPORARY PAVEMENT MARKING AND REMOVAL MAY BE REQUIRED AND SHALL BE INCLUDED IN THE BID PRICE FOR "MAINTENANCE OF TRAFFIC (LS)"; NO SIDE AND/OR CROSSWALK SHALL BE CLOSED DURING CONSTRUCTION. IF SIDE AND/OR CROSS WALKS NEED TO BE CLOSED TO FACILITATE THE CONSTRUCTION THEN THE CONTRACTOR SHALL PROVIDE A SIDE AND/OR CROSSWALK CLOSURE PLAN TO THE SATISFACTION OF THE CITY.

FIELD QUALITY CONTROL

- CONCRETE WORK
 - CONCRETE MATERIAL, MIXTURES, FORM WORK, COMPACTION REQUIREMENTS, INSTALLATION TOLERANCES AND JOINT MATERIAL SHALL CONFORM WITH VIRGINIA DEPARTMENT OF TRANSPORTATION, ROAD AND BRIDGE SPECIFICATIONS, 2020, OR LATEST APPROVED EDITION.
 - THE CONTRACTOR SHALL ENGAGE A QUALIFIED INDEPENDENT TESTING AND INSPECTING AGENCY TO PERFORM FIELD TESTS AND INSPECTIONS AND PREPARE TEST REPORTS FOR ALL CONCRETE INSTALLATIONS.
- ASPHALT WORK
 - ASPHALT PAVING SHALL COMPLY WITH MATERIALS, WORKMANSHIP, COMPACTION REQUIREMENTS, INSTALLATION TOLERANCES AND OTHER APPLICABLE REQUIREMENTS OF VIRGINIA DEPARTMENT OF TRANSPORTATION, ROAD AND BRIDGE SPECIFICATIONS, 2020, OR LATEST APPROVED EDITION.
 - FOR ALL ASPHALT PAVING, CONTRACTOR SHALL:
 - ENGAGE A QUALIFIED TESTING AGENCY TO PERFORM TESTS AND INSPECTIONS
 - REPLACE AND COMPACT HOT-MIX ASPHALT WHERE CORE TESTS WERE TAKEN
 - REMOVE AND REPLACE OR INSTALL ADDITIONAL HOT-MIX ASPHALT WHERE TEST RESULTS OR MEASUREMENTS INDICATE THAT IT DOES NOT COMPLY WITH SPECIFIED REQUIREMENTS.
- EARTHWORK
 - EXCAVATIONS, GRADING, BORROW MATERIALS, SUBBASE AND BASE MATERIAL, COMPACTION REQUIREMENTS SHALL CONFORM WITH VIRGINIA DEPARTMENT OF TRANSPORTATION, ROAD AND BRIDGE SPECIFICATIONS, 2020, OR LATEST APPROVED EDITION.
 - REMOVE ALL SURPLUS SOIL AND WASTE MATERIAL INCLUDING TRASH AND DEBRIS AND LEGALLY DISPOSE OF IT OFF PROJECT SITE.

LANDSCAPE PLANTING NOTES

- ALL LANDSCAPE RELATED WORK SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE CURRENT AND MOST UP-TO-DATE EDITION (AT TIME OF CONSTRUCTION) OF THE CITY OF ALEXANDRIA LANDSCAPE GUIDELINES, ANSI Z60.1-2014 AMERICAN STANDARD FOR NURSERY STOCK, AND LANDSCAPE SPECIFICATION GUIDELINES (6TH EDITION - 2014) AS PRODUCED BY THE LANDSCAPE CONTRACTORS ASSOCIATION OF MARYLAND, VIRGINIA, DISTRICT OF COLUMBIA AND VIRGINIA.
- PLANTING AREA SHALL BE FREE FROM DEBRIS, STONES, GRAVEL, OR OTHER FOREIGN MATTER PRIOR TO PLANTING, SEEDING, OR SODDING.

LANDSCAPE SPECIFICATION AND INSTALLATION

- SEED
 - PROCURE FROM NEW OF THE YEAR SEED CROPS, FREE OF FOREIGN MATERIAL OR WEED SEEDS.
 - FURNISH AND INSTALL PERMANENT SEEDING IN CONFORMANCE WITH THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK: SPECIFICATION 3.32- PERMANENT SEEDING (VESCH-PS).
 - PREPARE PLANTING AREA PER VESCH AND BY RAKING OUT AND REMOVING ALL DEBRIS OVER 1" IN DIAMETER.
 - PREPARE PLANTING AREA WITH SOIL CONDITIONER, TOPSOIL, AND/OR LIME, AS PER THE RECOMMENDATIONS OF A SOIL TEST CONDUCTED FOR HORTICULTURAL/LANDSCAPE PLANTING PER VESCH.
 - PACK OR ROLL SEED BEFORE AND AFTER SEEDING. SEEDBED SHOULD BE FIRM, SHOWING ONLY A SLIGHT IMPRINT WHEN STEPPED ON.
 - REPLACEMENT OR OVERSEEDING MIXES SHALL MATCH OR COMPLIMENT ORIGINAL INSTALLATION/EXISTING CONDITIONS SPECIFIED TO REMAIN.
 - PROVIDE CONTINUOUS UNIFORM AND CONSISTENT COVERAGE.
- TOPSOIL
 - SEE LANDSCAPE SPECIFICATION GUIDELINES REFERENCED IN PAGE 1 OF CITY OF ALEXANDRIA LANDSCAPE GUIDELINES.
 - SUITABLE TOPSOIL SHALL BE STRIPPED FROM EXCAVATIONS AND STOCKPILED FOR REUSE.
 - THE CONTRACTOR SHALL SUPPLY ANY ADDITIONAL MATERIAL AS REQUIRED. THIS SOIL SHALL BE FRIABLE LOAM, AND SHALL BE OBTAINED FROM NATURALLY WELL-DRAINED AREAS. IT SHALL BE FREE FROM SUBSOIL, CLAY LUMPS, STONES, STUMPS, ROOTS, BRUSH, WEEDS, LITTER, TRASH OR OTHER HARMFUL MATERIAL.
- MULCH
 - MULCH SHALL BE TRIPLE SHREDDED HARDWOOD MULCH, AGED A MINIMUM OF SIX (6) MONTHS, FREE FROM DEBRIS, MILDEW, DISEASE, PATHOGENS, OR OTHER MATERIAL OTHERWISE DELETERIOUS TO PLANT HEALTH. MULCH SHALL BE PLACED TO A UNIFORM DEPTH, AS INDICATED IN THE DETAILS.

SIGNING AND PAVEMENT MARKING

- ALL SIGN WORK AND PAVEMENT MARKINGS SHALL MEET ALL THE LATEST APPLICABLE VDOT, CITY OF ALEXANDRIA STANDARDS, AND MANUAL ON UNIFORM TRAFFIC CONTROL (MUTCD) REQUIREMENTS.
- ALL PAVEMENT MARKINGS ARE THERMOPLASTIC UNLESS OTHERWISE NOTED.
- ALL EXISTING PAVEMENT MARKINGS MAY NOT BE SHOWN. ALL EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH PROPOSED PAVEMENT MARKINGS SHALL BE ERADICATED.
- ALL SIGNS SHALL BE HIGH INTENSITY SHEETING MEETING THE REQUIREMENTS OF AASHTO M268.
- NO PORTION OF PROPOSED SIGN PANEL SHALL OVERHANG ADJACENT ROADWAY PAVEMENT. I.E. SHALL NOT HANG IN FRONT OF FACE OF CURB.
- PROPOSED SIGN POSTS SHALL BE LOCATED A MINIMUM OF 2 FEET BEHIND ANY ADJACENT FACE OF CURB (ADDITIONAL REQUIREMENTS APPLY TO ACCOMMODATE SIGN PANEL LATERAL AND VERTICAL CLEARANCE). IF LOCATED ADJACENT TO SIDEWALKS, A 32" MINIMUM CLEAR AND 48" PREFERRED PASSING SPACE ON EXISTING AND PROPOSED SIDEWALKS SHALL BE MAINTAINED.
- PROPOSED SIGN POSTS SHALL BE INSTALLED IN NEW LOCATIONS SUCH THAT THE EXISTING SIGNS OR SIGNALS ARE NOT BLOCKED.
- FOR NEW POST INSTALLATION, THE CONTRACTOR SHALL VERIFY THERE ARE NO CONFLICTING UNDERGROUND OR OVERHEAD UTILITIES.
- SIGNS MOUNTED TO EXISTING LIGHT, SIGNAL OR UTILITY POLES SHALL BE FASTENED WITH A MANUFACTURED STEEL BANDING SYSTEM. POLES SHALL NOT BE DRILLED DIRECTLY. THE CONTRACTOR SHALL SUBMIT MANUFACTURER INFORMATION ON THE BANDING SYSTEM TO THE CITY FOR APPROVAL PRIOR TO INSTALLATION.

ABBREVIATIONS

APP	-	APPROXIMATE
CO	-	CLEANOUT
COMM	-	COMMUNICATIONS
CONC	-	CONCRETE
CMU	-	CONCRETE MASONRY UNIT
CSO	-	COMBINED SEWER OVERFLOW
EL	-	ELEVATION
EOP	-	EDGE OF PAVEMENT
EX	-	EXISTING
FH	-	FIRE HYDRANT
FL	-	FLOW LINE
HP	-	HIGH POINT
LOD	-	LIMITS OF DISTURBANCE
LT	-	LIGHT
MH	-	MANHOLE
NPS	-	NOMINAL PIPE SIZE
PC	-	POINT OF CURVATURE
PT	-	POINT OF TANGENCY
PED	-	PEDESTRIAN
PR	-	PROPOSED
PROP-	-	PROPOSED
ROW	-	RIGHT OF WAY
SAN	-	SANITARY SEWER
STM	-	STORM SEWER
TRAF	-	TRAFFIC
TC	-	TOP OF CURB
TOC	-	TOP OF CURB
TW	-	TOP OF WALL
BW	-	BOTTOM OF WALL
U.N.O.	-	UNLESS NOTED OTHERWISE
WTR	-	WATERLINE
WV	-	WATER VALVE
X-ING	-	CROSSING

90% DESIGN PHASE



CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

REVISIONS	DATE	DESCRIPTION

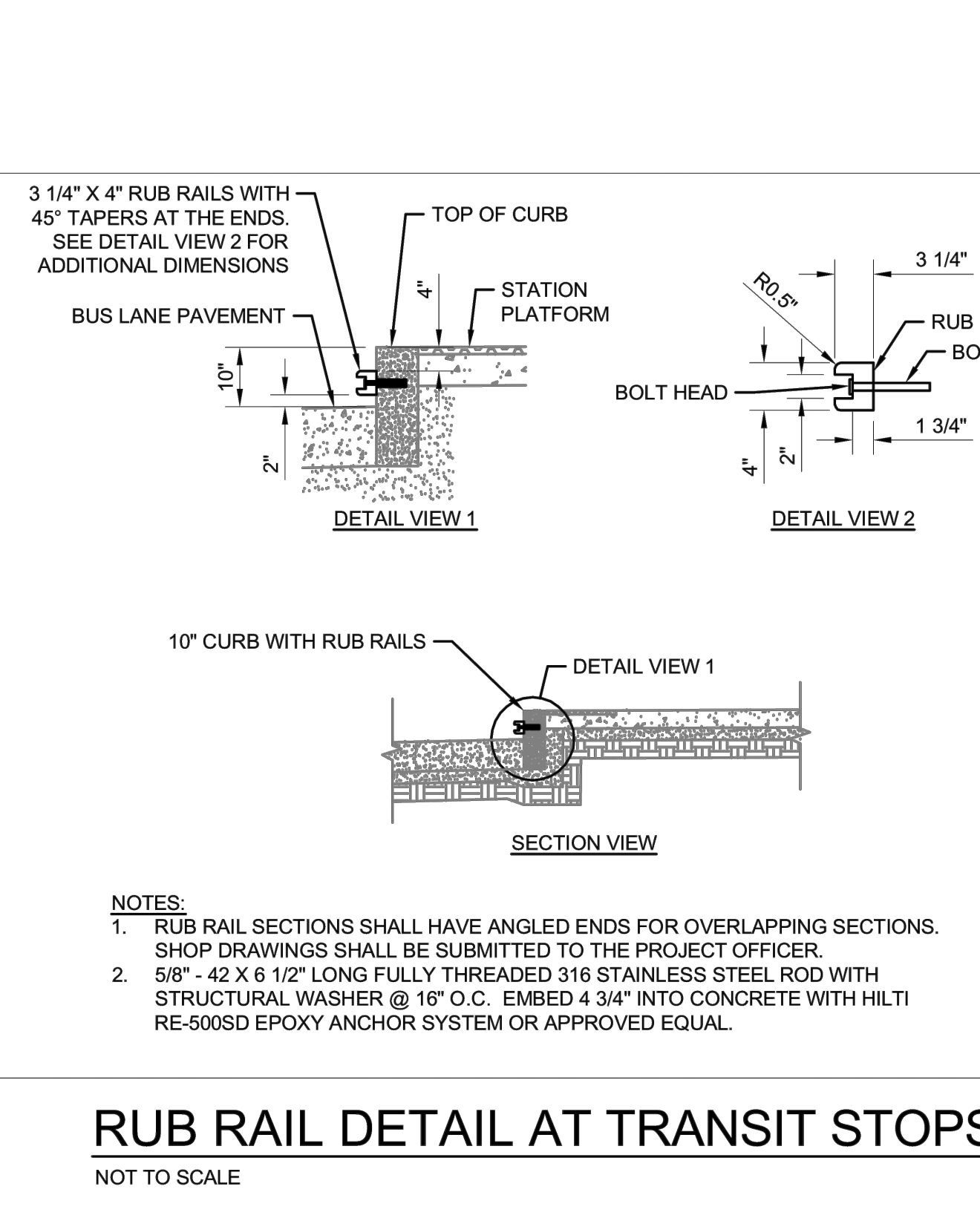
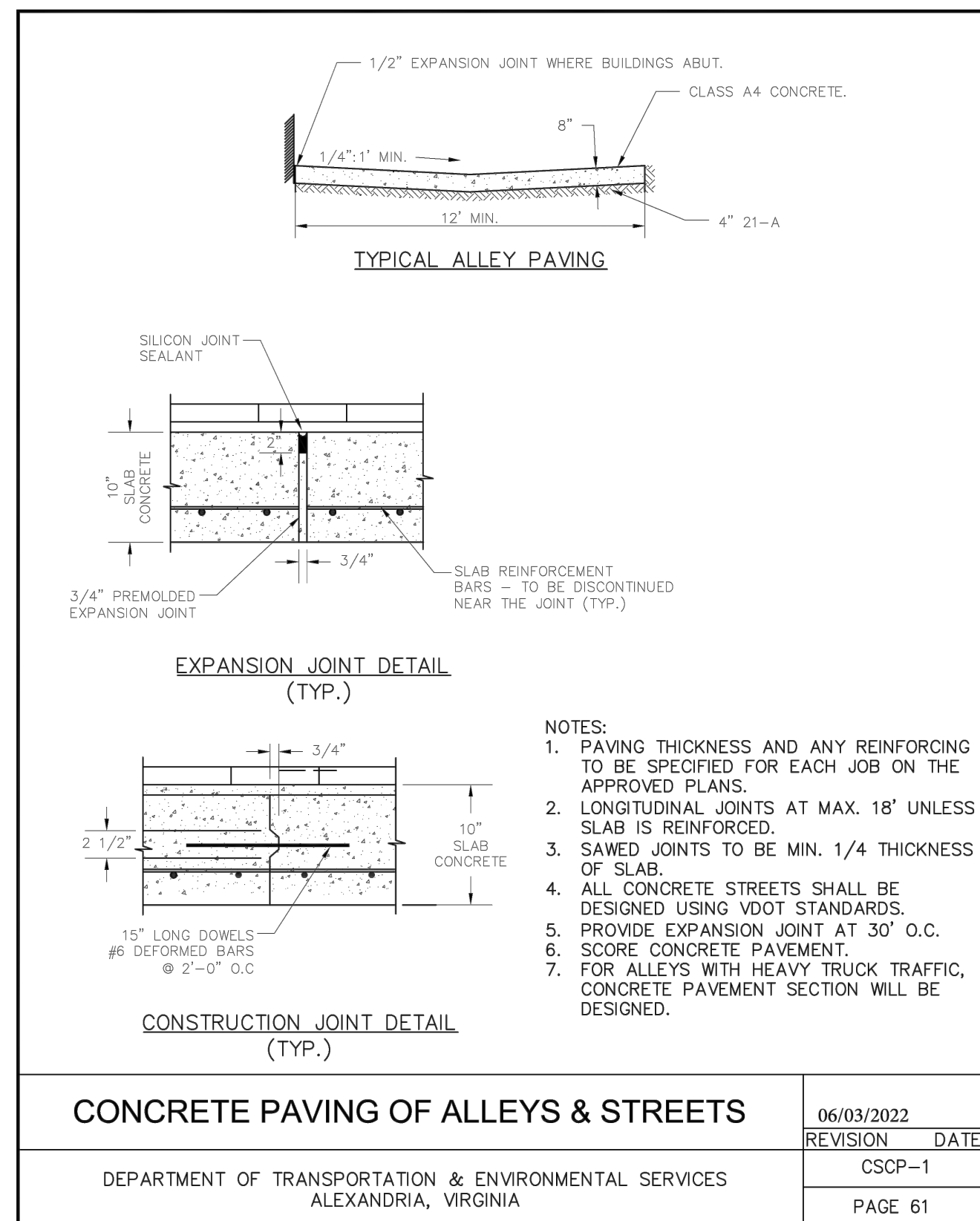
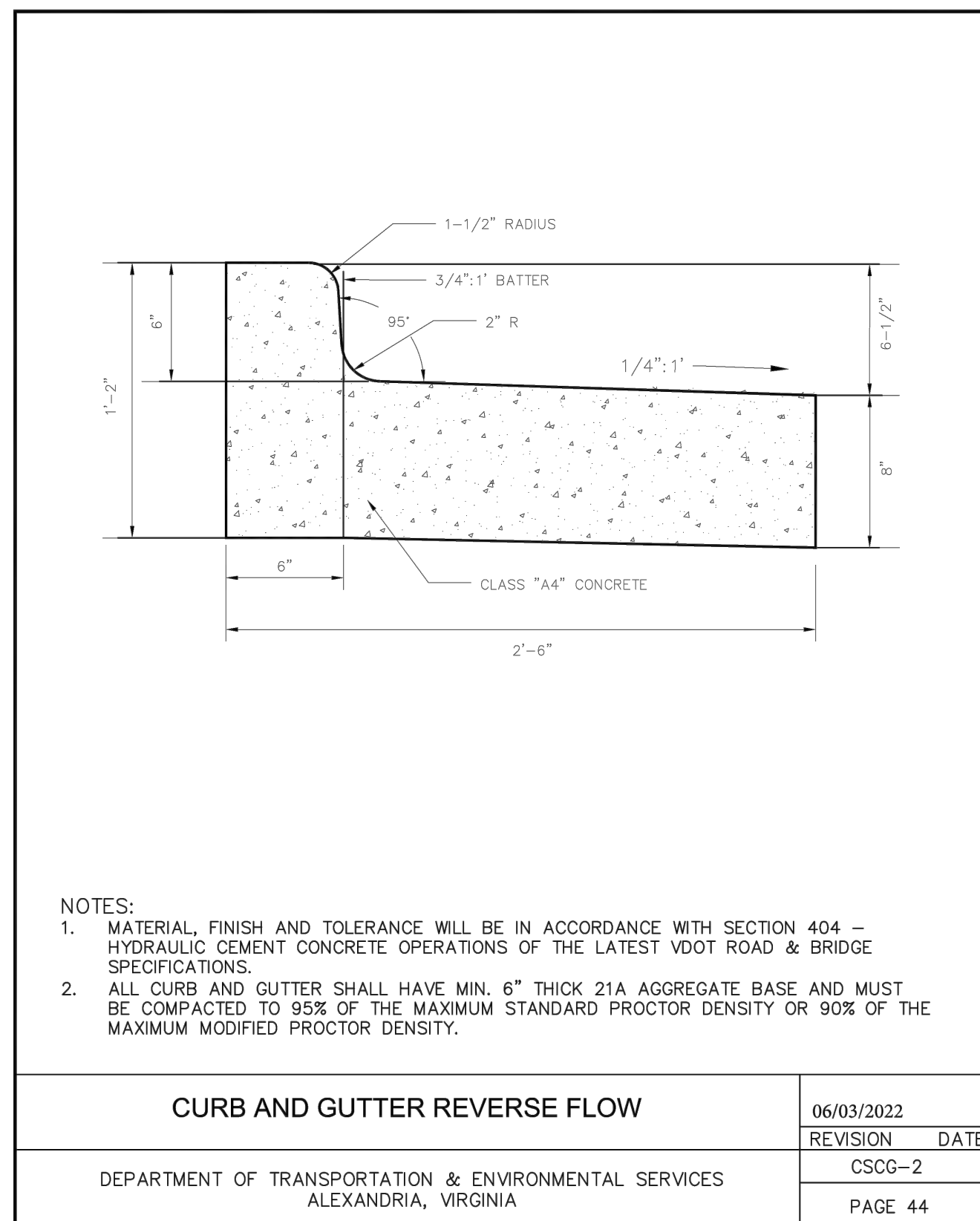
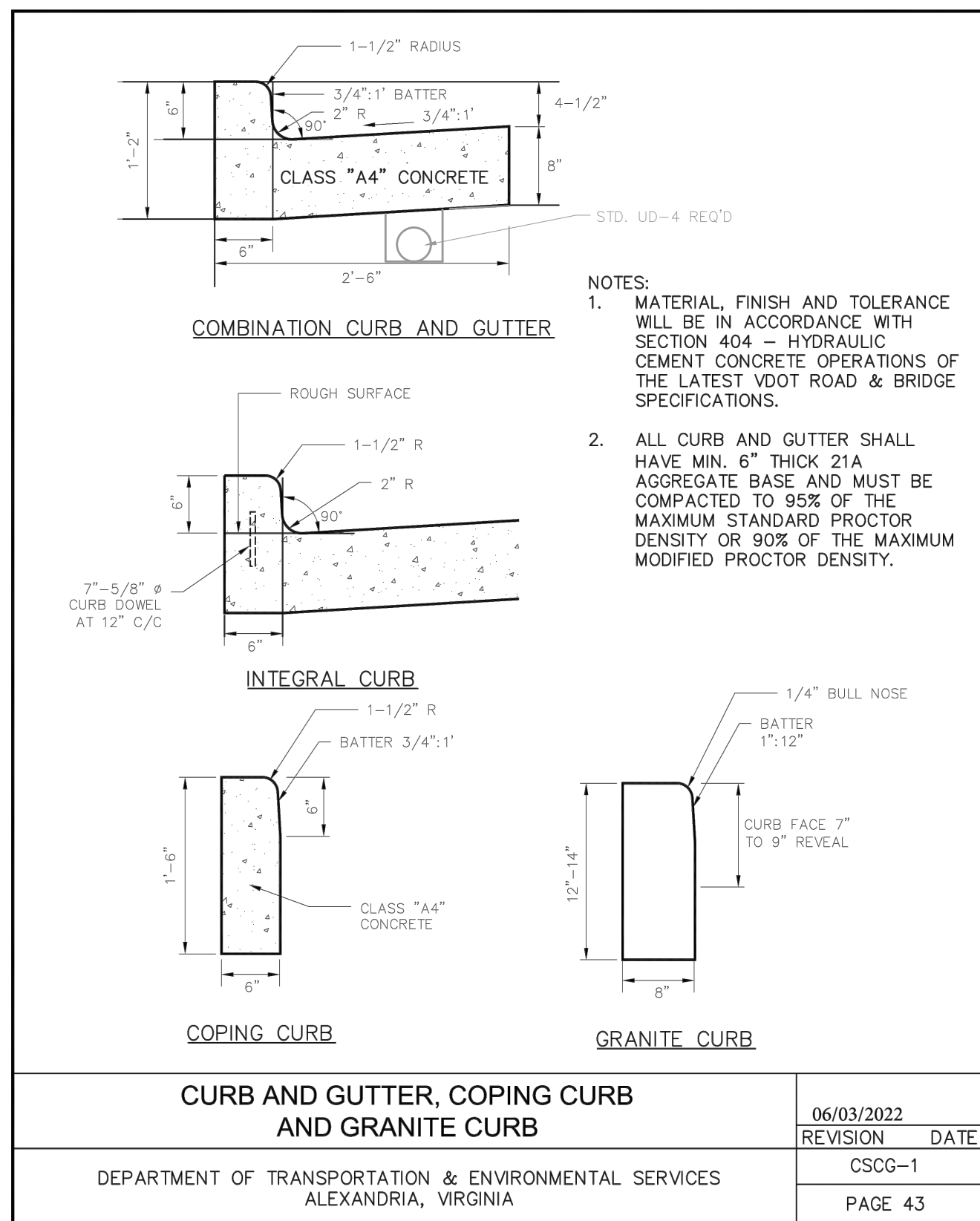
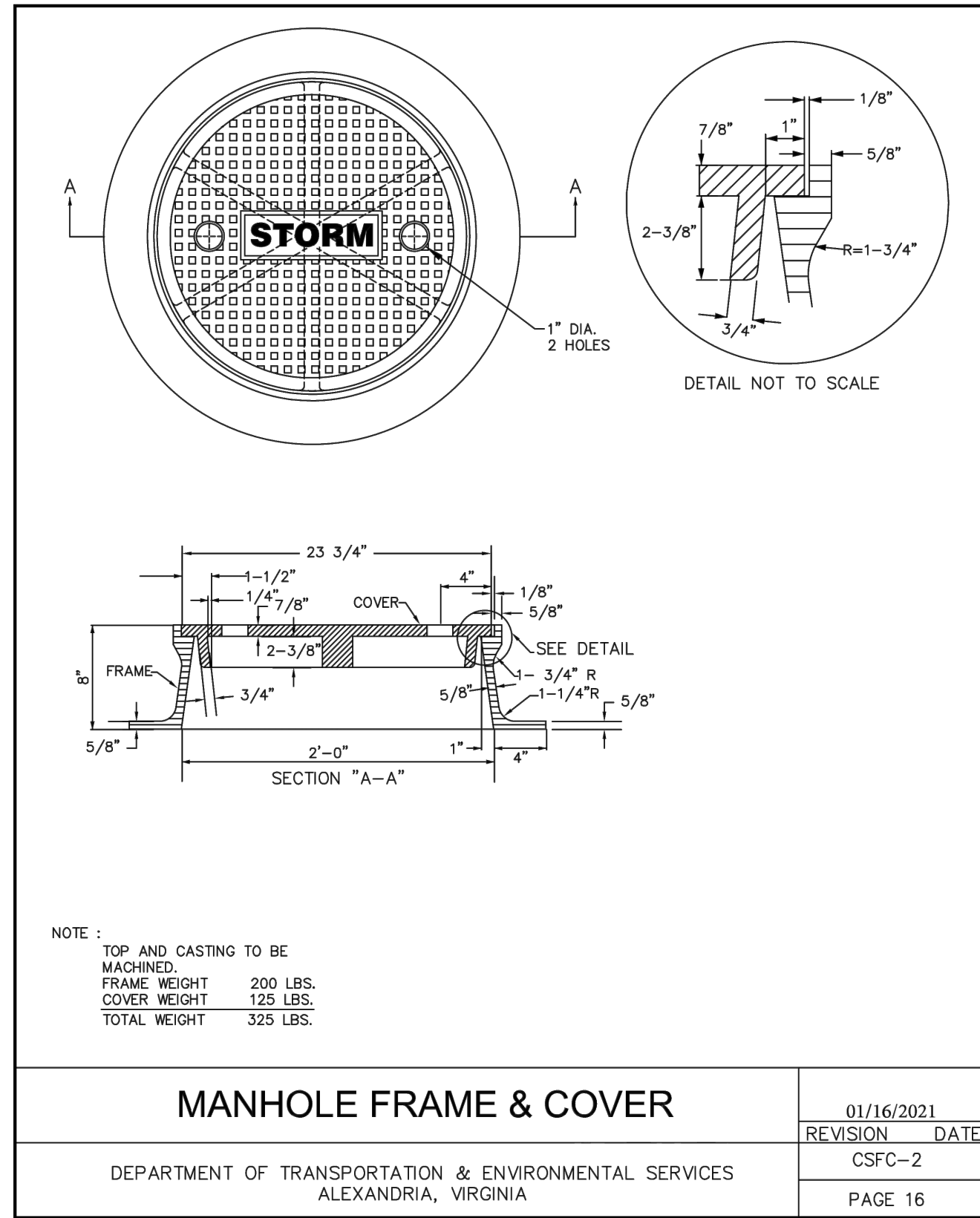
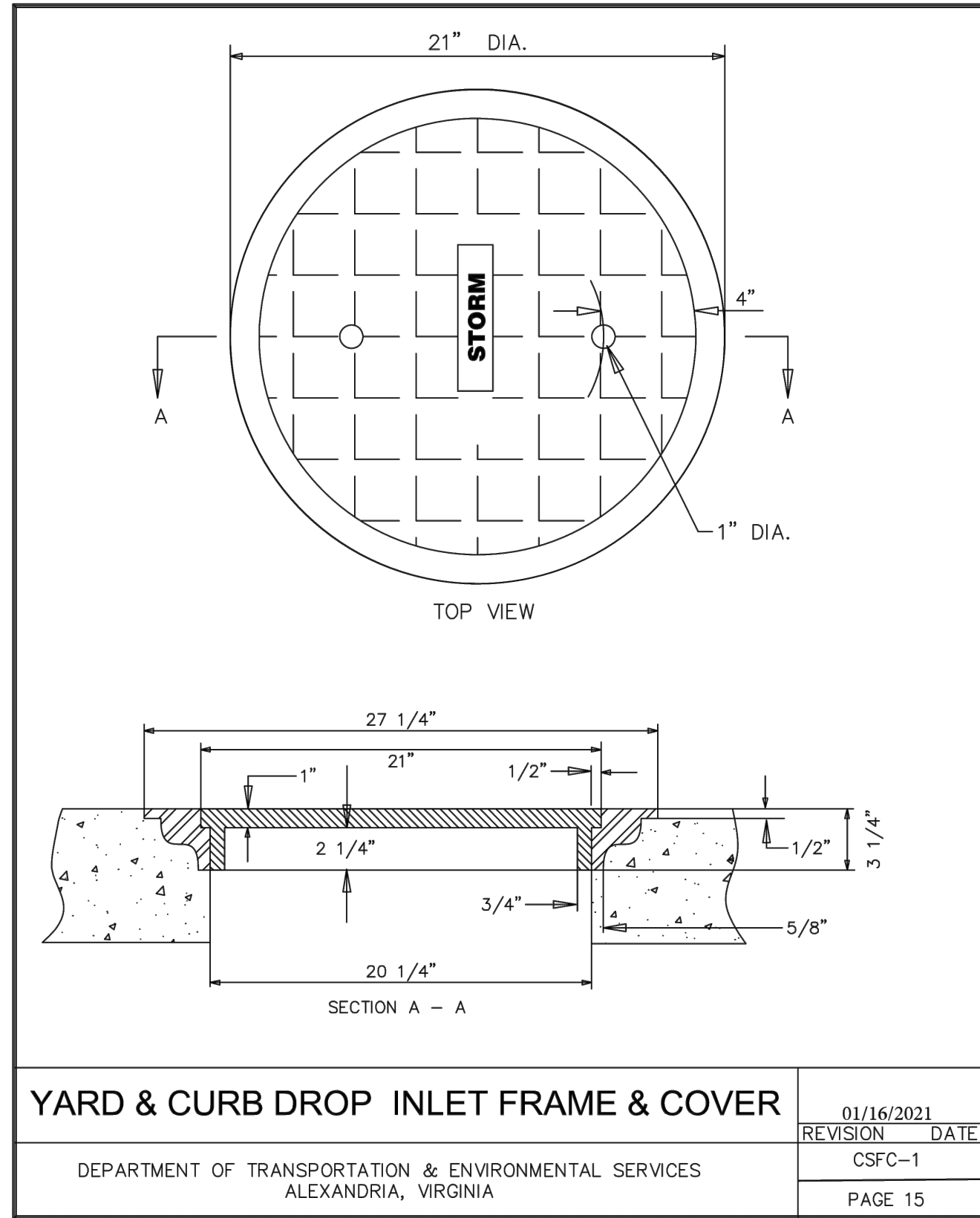
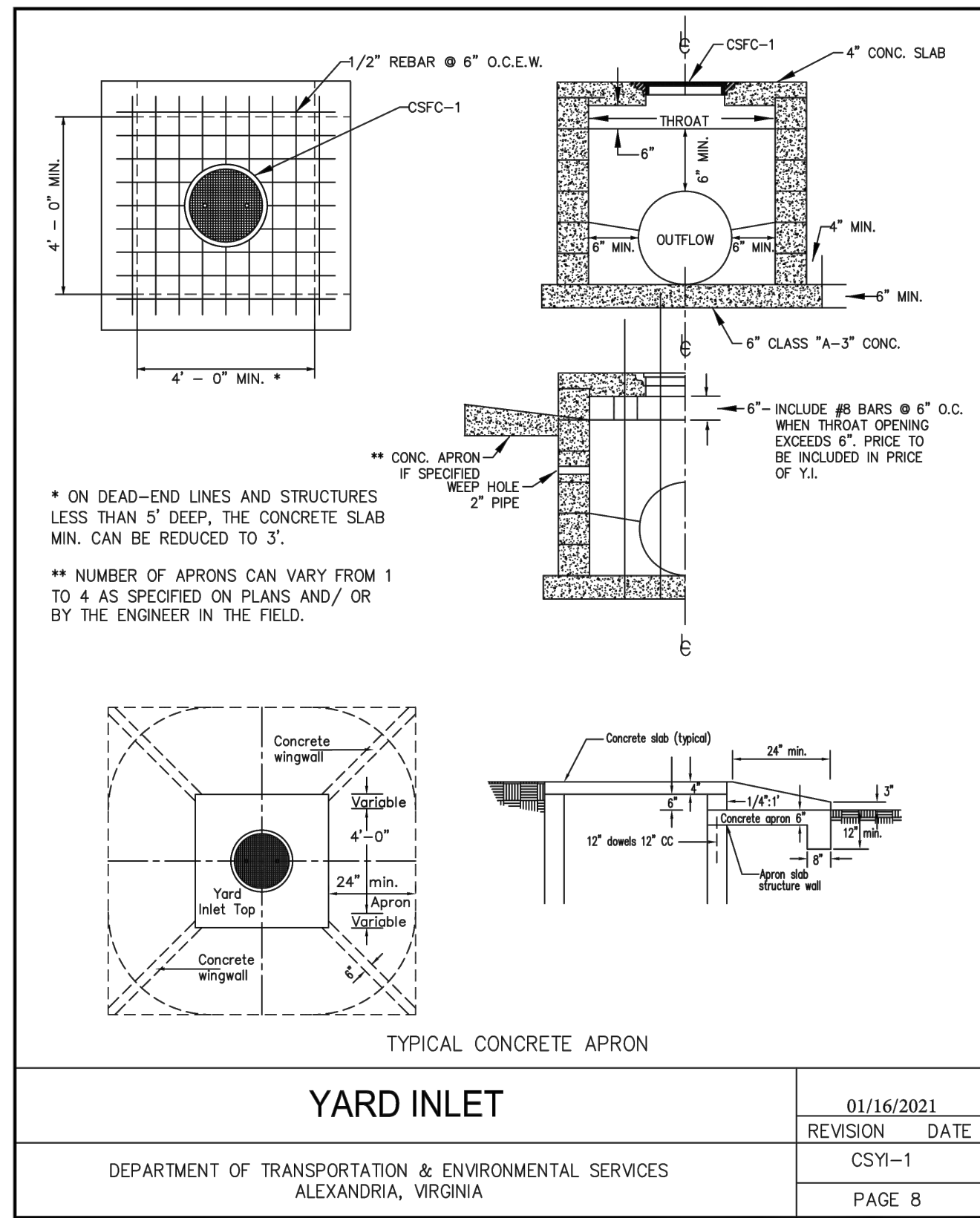
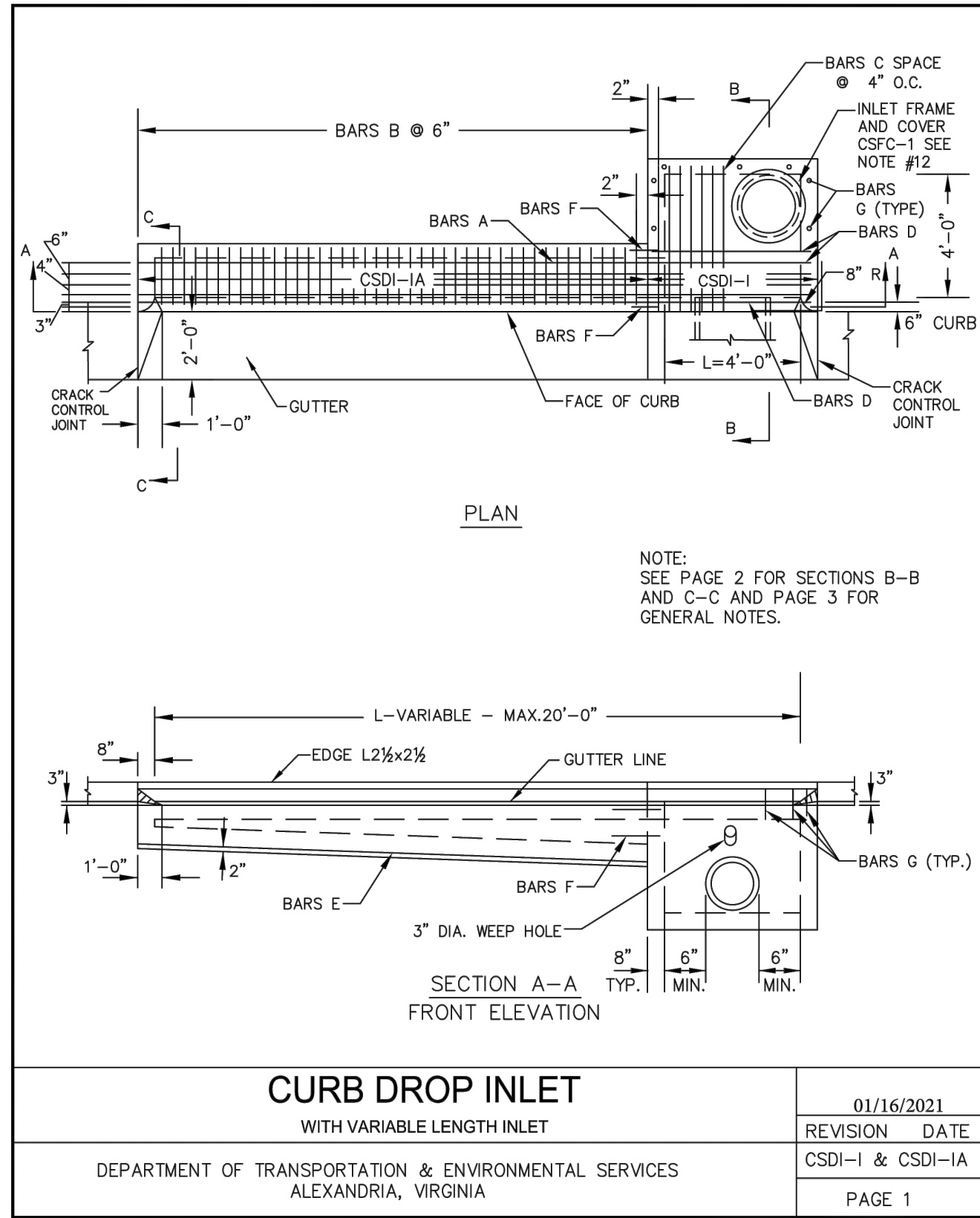
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DATE OF PLAN ISSUANCE:	N/A
CONSULTANT PROJECT ID.:	N/A
DESIGNED BY:	VALUE DATE: 4/5/24
DRAWN BY:	VALUE DATE: 4/5/24
CHECKED BY:	VALUE DATE: 4/5/24
APPROVED BY:	DATE:

WEST END TRANSITWAY – PHASE 1 IMPROVEMENTS

C-002 GENERAL NOTES

SHEET
C-002
SCALE NTS





90% DESIGN PHASE



CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

REVISIONS	DESCRIPTION	DATE

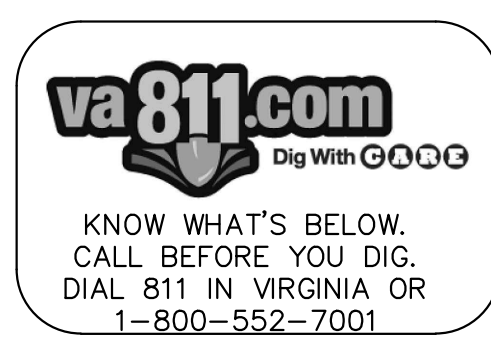
ALEXANDRIA PROJECT NO. 110104122	DATE OF PLAN ISSUANCE: N/A	CONSULTANT PROJECT ID: N/A	DESIGNED BY: VALUE DATE: 4/5/24	DRAWN BY: VALUE DATE: 4/5/24	CHECKED BY: VALUE DATE: 4/5/24	APPROVED BY: DATE: _____
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WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

DETAILS

SHEET
C-003

SCALE NTS



**CONCRETE GRAVITY RETAINING WALLS
INFINITE SURCHARGE AND DECK SURCHARGE - LOADED**

HEIGHT OF WALL "H" IN FEET	THICKNESS AT TOP "A" IN FEET	THICKNESS AT BASE "B" IN FEET	COMPRESSION AT TOE LBS. PER SQ. FT.	AREA OF SECTION SQ. FT.
3	1'-0"	1'-9 1/2"	856	4.83
4	1'-0"	2'-4 3/4"	1141	7.43
5	1'-0"	3'-0"	1427	10.63
6	1'-0"	3'-7 1/4"	1712	14.43
7	1'-0"	4'-2 3/4"	1997	18.83
8	1'-0"	4'-9 3/4"	2283	23.83
9	1'-0"	5'-4 3/4"	2568	29.43
10	1'-0"	6'-0"	2853	35.63
11	1'-1 1/4"	6'-7 1/4"	3139	42.98
12	1'-2 3/8"	7'-2 3/4"	3424	51.03
13	1'-3 5/8"	7'-9 3/4"	3709	59.78
14	1'-4 3/4"	8'-4 3/4"	3995	69.23
15	1'-6"	9'-0"	4280	79.38

SAFE BEARING CAPACITY OF SOIL

ROCK MINIMUM	10,000 - 20,000 LBS. PER SQ. FT.
GRAVEL AND COARSE SAND, WELL CEMENTED	16,000 - 20,000 LBS. PER SQ. FT.
CLAY IN THICK BEDS, ALWAYS DRY	12,000 - 16,000 LBS. PER SQ. FT.
CLAY IN THICK BEDS, MODERATELY DRY	8,000 - 12,000 LBS. PER SQ. FT.
CLAY, SOFT	2,000 - 4,000 LBS. PER SQ. FT.
SAND, DRY, COMPACT, AND WELL CEMENTED	8,000 - 12,000 LBS. PER SQ. FT.
SAND, CLEAN, DRY	4,000 - 8,000 LBS. PER SQ. FT.
ALLUVIAL SOILS, ETC.	1,000 - 2,000 LBS. PER SQ. FT.

**CG-12 DETECTABLE WARNING SURFACE
TYPE A (PERPENDICULAR) APPLICATION**

NOTES:

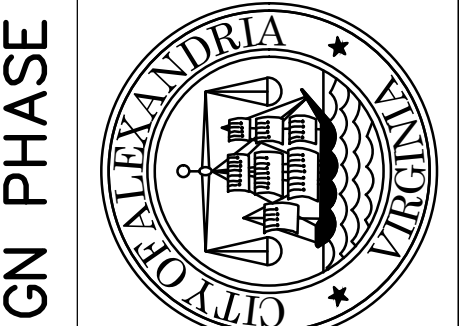
- FOR GENERAL NOTES ON THE DETECTABLE WARNING SURFACE, SEE SHEET 1 OF 5.
- THIS DESIGN IS TO BE USED FOR CONSTRUCTION THAT INCORPORATES WIDER SIDEWALK, LANDING (4" WIDE) REQUIRED AT TOP OF CURB RAMP, MINIMUM CURB RAMP LENGTH 5 FEET FOR NEW CONSTRUCTION.
- GUTTER PAN SHALL BE A MAXIMUM SLOPE OF 20:1 AT THE RAMP OPENING.
- DIAGONAL PLACEMENT IS NOT PERMITTED.

**CG-12 DETECTABLE WARNING SURFACE
TYPE B (PARALLEL) APPLICATION**

NOTES:

- FOR GENERAL NOTES ON THE DETECTABLE WARNING SURFACE, SEE SHEET 1 OF 5.
- THE REQUIRED LENGTH OF A PARALLEL RAMP IS LIMITED TO 15 FEET, REGARDLESS OF THE SLOPE.
- GUTTER PAN SHALL BE A MAXIMUM SLOPE OF 20:1 AT THE RAMP OPENING.
- DIAGONAL PLACEMENT IS NOT PERMITTED.

ROADWAY GRADE IN PERCENT	MINIMUM RAMP LENGTH IN FEET	4" CURB	6" CURB
0	4	6	
1	5	7	
2	5	8	
3	6	9	
4	8	12	
5	10	15	
6	14	15	



CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
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WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

DETAILS

SHEET C-003A
SCALE NTS

MANHOLE (Grade Rim Adjustments)

RAISE OR LOWER FRAME AND COVER SUCH THAT HEIGHT OF 24" NECK SECTION, INCLUDING FRAME AND COVER, DOES NOT EXCEED 12" MAXIMUM OR 2" MINIMUM. IF RANGE IS EXCEEDED, USE MODIFIED MANHOLE ADJUSTMENT.

SEE NOTES ON MODIFIED MANHOLE ADJUSTMENT DETAIL, CSMA-1A.

REVISION	DATE
06/21/2021	

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ALEXANDRIA, VIRGINIA
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MODIFIED MANHOLE ADJUSTMENTS

REMOVE EXISTING TRANSITION SECTION AND CONSTRUCT NEW MANHOLE AS REQUIRED.

REMOVE EXISTING TRANSITION SECTION AND MANHOLE TO 2" MIN. BELOW PROPOSED GRADE AND CONSTRUCT NEW MANHOLE AS REQUIRED.

NOTES:

- RINGS TO BE COATED ON ALL INTERIOR SURFACES, 3/8" THICK (MIN) WITH HYDRAULIC CEMENT HIGH STRENGTH GROUT.
- MH CASTING (FRAME) AND PRECAST CONCRETE ADJUSTMENT RINGS TO BE SET AND EMBEDDED IN BUTYL JOINT MATERIAL ("RAM-NEK" OR EQUAL) AND CAPPED WITH HIGH STRENGTH HYDRAULIC CEMENT GROUT OVER FRAME FLANGE, ADJUSTMENT RINGS AND CONE OR BARREL SECTION.
- BUTYL JOINT MATERIAL TO BE PLACED OVER ENTIRE SURFACE OF JOINT AND SQUEEZED OUT WHEN JOINT IS MADE. STRIKE EXCESS FLUSH WITH JOINT BEFORE APPLYING GROUT.
- NEW MH SECTION TO BE SET AND EMBEDDED IN BUTYL JOINT MATERIAL ("RAM-NEK" OR EQUAL).
- CLEAN AND PATCH EXISTING BARREL SURFACE, PLACE BUTYL JOINT MATERIAL OVER ENTIRE SURFACE (TOP SHOULDER, SLOPE AND SEAT) AND SQUEEZE OUT WHEN JOINT IS MADE.
- THE CONTRACTOR SHALL RE-GROUT THE ENTIRE MANHOLE WHEN STRUCTURE IS RAISED OR LOWERED.

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MANHOLE SHAPING

TREATMENT IN PRECAST MANHOLES

SECTION A-A

NOTES:

- SHAPING OF MANHOLE IN ACCORDANCE WITH THIS DRAWING IS TO APPLY TO THOSE STRUCTURES SPECIFIED ON PLANS.
- MANHOLE IS TO BE FORMED AND CONSTRUCTED IN ACCORDANCE WITH APPLICABLE STANDARD OR SPECIAL DRAWING. THE INVERT SHAPING AS DETAILED HEREON IS TO CONSIST OF A PORTLAND CEMENT CONCRETE MIX CONFORMING TO VDOT CLASS A3. THE SURFACE SHALL BE LEFT SMOOTH BY MEANS OF HAND TROWELLING. NONE OF THE COARSE AGGREGATE SHALL REMAIN EXPOSED.
- INVERT TO BE PAVED TO THE SHAPE OF THE PIPE AND TO THE SPRING LINE EXCEPT WHERE INLET AND OUTLET PIPE MAKE AN ANGLE WITH EACH OTHER IN WHICH CASE PAVING SHALL BE TO THE CROWN OF THE OUTLET PIPE. THEN FROM THE SPRING LINE OR THE CROWN, WHICHEVER IS THE CASE, THE PAVING IS TO BE EXTENDED UPWARD AT A 45° ANGLE TO MEET THE STRUCTURE WALL.
- DETAILS OF INVERT SHAPING AS SHOWN HEREON ARE FOR EXAMPLE PURPOSES ONLY. EACH MANHOLE IS TO BE SHAPED INDIVIDUALLY TO BEST FIT THE PARTICULAR INLET AND OUTLET CONFIGURATION AND FLOW LINES.

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06/21/2021	

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BEDDING FOR PIPE & TRENCH SECTIONS

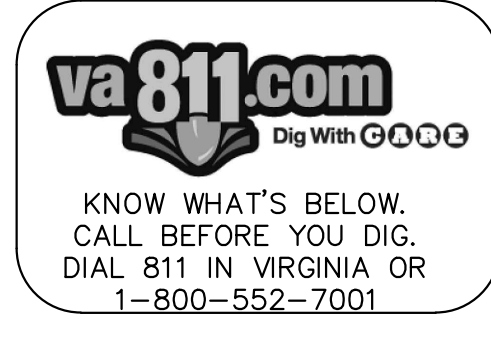
DETAIL NOT TO SCALE

NOTES:

- BACKFILL MATERIAL SHALL BE COMPACTED AT A MAXIMUM DEPTH OF EVERY SIX INCHES (6") THROUGH THE USE OF MECHANICAL TAMPING THROUGHOUT THE TRENCH TO ENSURE THAT ADEQUATE SUPPORT IS PROVIDED.
- PAVEMENT RESTORATION IS 12 INCHES MINIMUM BEYOND THE EDGE OF THE TRENCH ON LONGITUDINAL OPEN CUTS, OR 25 FEET MINIMUM BEYOND THE TRENCH CENTERLINE ON PERPENDICULAR OPEN CUTS, OR AS DETERMINED BY THE T&ES DIRECTOR.
- PAVEMENT RESTORATION ALSO INCLUDES THE REPLACEMENT OF ANY TRAFFIC CONTROL DEVICES AND/OR MARKINGS.
- PAVEMENT THAT HAS BEEN RESURFACED WITHIN THE LAST FIVE (5) YEARS; PAVEMENT RESTORATION SHALL BE AT A MINIMUM WIDTH FROM CURB TO CURB AND LONGITUDINALLY PER NOTE #2. ADDITIONAL PAVING AND RESTORATION MAY BE REQUIRED, AS DETERMINED BY THE T&ES DIRECTOR.

REVISION	DATE
01/16/2021	

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CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

90% DESIGN PHASE

WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

REVISIONS	DESCRIPTION
DATE	
BY	

ALEXANDRIA PROJECT NO.: 110104122
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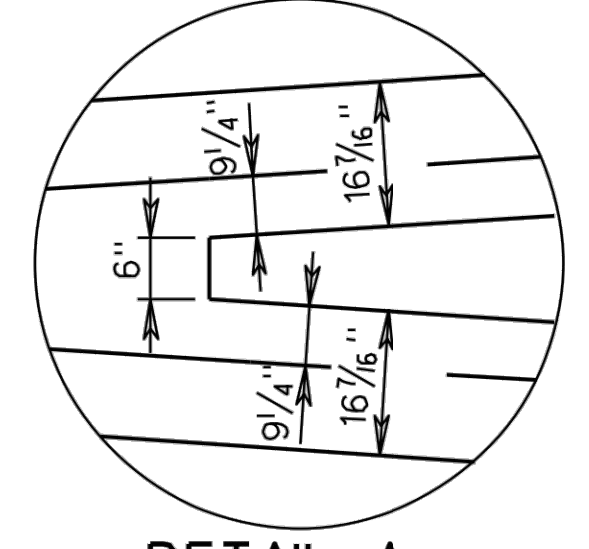
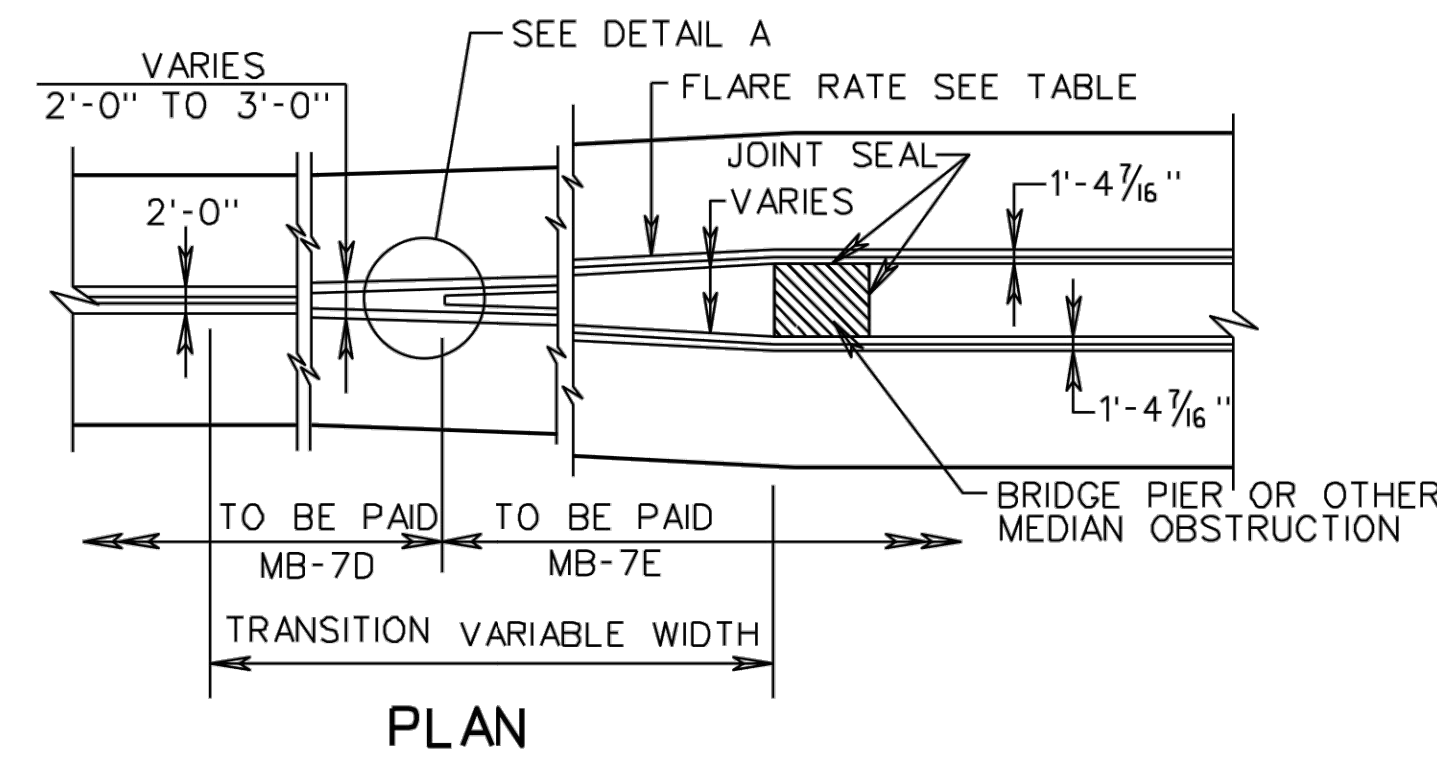
DETAILS

SHEET
 C-003B
 SCALE NTS

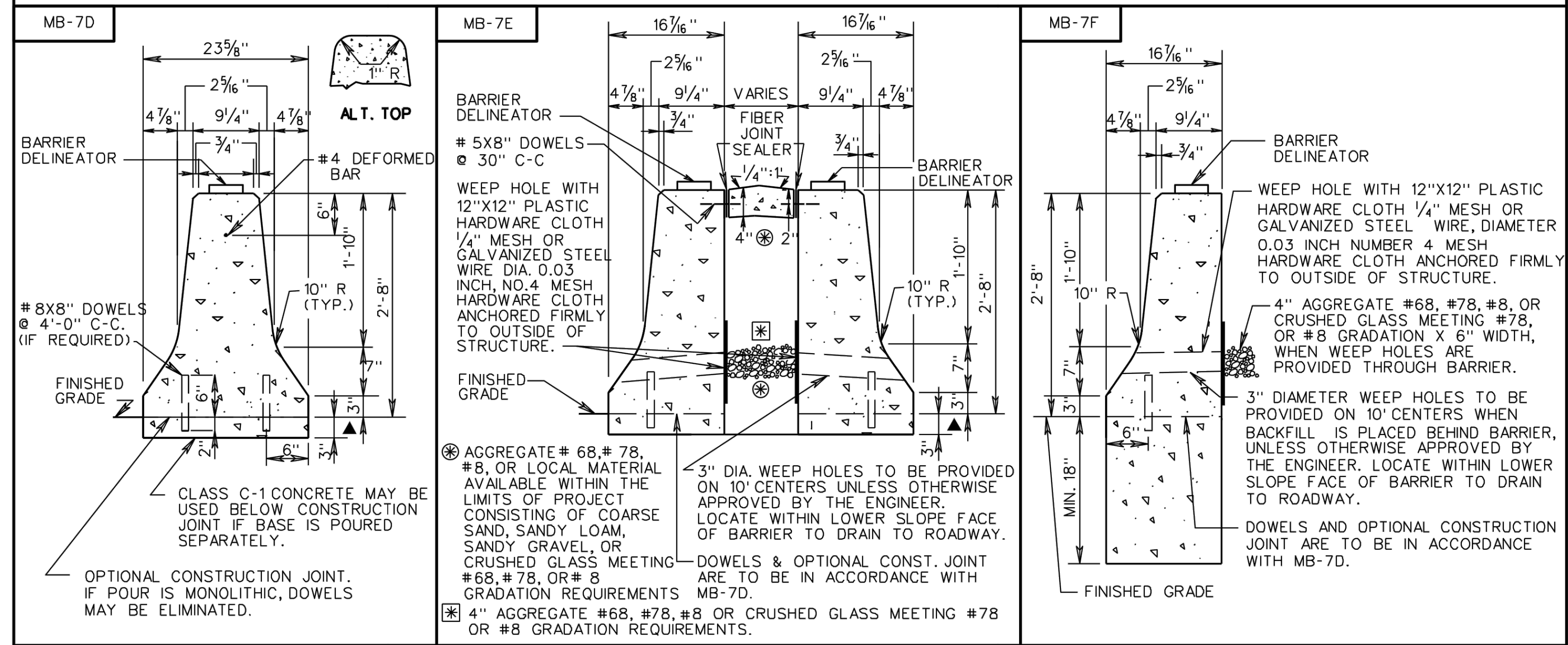
2016 ROAD & BRIDGE STANDARDS

MB-7D,7E,7F

* SUGGESTED MAXIMUM FLARE RATE FOR RIGID BARRIER SYSTEMS.



DESIGN SPEED	INSIDE SHY LINE		BEYOND SHY LINE
	SHY LINE LS	FLARE RATE	FLARE RATE
70	10'	30:1	20:1 *
60	8'	26:1	18:1 *
50	6.5'	21:1	14:1 *
40	5'	16:1	10:1 *
30	3.5'	13:1	8:1 *



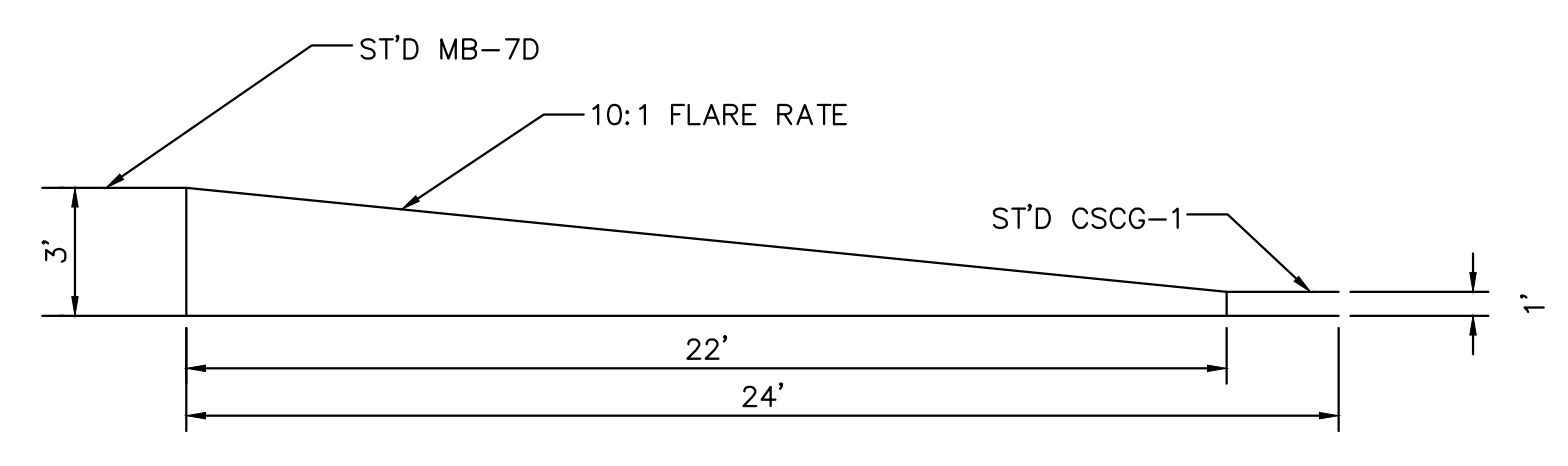
NOTES:
 IF THE CONTRACTOR ELECTS TO USE THE OPTIONAL CONSTRUCTION JOINT, TRANSVERSE JOINTS FOR CRACK CONTROL AND EXPANSION JOINTS ARE TO BE PROVIDED IN BOTH FOOTING AND BARRIER AT THE SAME LOCATION.
 TRANSVERSE JOINTS ARE TO COINCIDE WITH JOINTS IN ADJACENT PAVEMENT WITH A MAXIMUM SPACING OF 20 FEET C-C.
 CONCRETE MEDIAN BARRIER MAY BE CAST IN PLACE OR SLIP-FORMED.
 PRECAST BARRIER IS NOT PERMITTED FOR PERMANENT INSTALLATIONS.
 HORIZONTAL REINFORCING STEEL BARS ARE TO BE SEPARATED AT ALL EXPANSION AND CONTRACTION JOINTS. A 2" CONCRETE COVER IS REQUIRED OVER THE ENDS OF THE REINFORCING STEEL.

BARrier DELINEATOR SIZE, COLOR, AND SPACING TO BE IN ACCORDANCE WITH THE SPECIFICATIONS.
 COST OF DELINEATOR TO BE INCLUDED IN THE PRICE BID FOR MEDIAN BARRIER.
 REFLECTIVE SURFACE OF BARRIER DELINEATOR IN ALL INSTANCES, TO BE FACING ONCOMING TRAFFIC.
 ALTERNATE TOP DESIGN SHOWN ON MB-7D. MAY ALSO BE APPLIED TO MB-7E AND MB-7F.
 CONCRETE TO BE CLASS A3 IF CAST IN PLACE, 4000 PSI IF PRECAST.

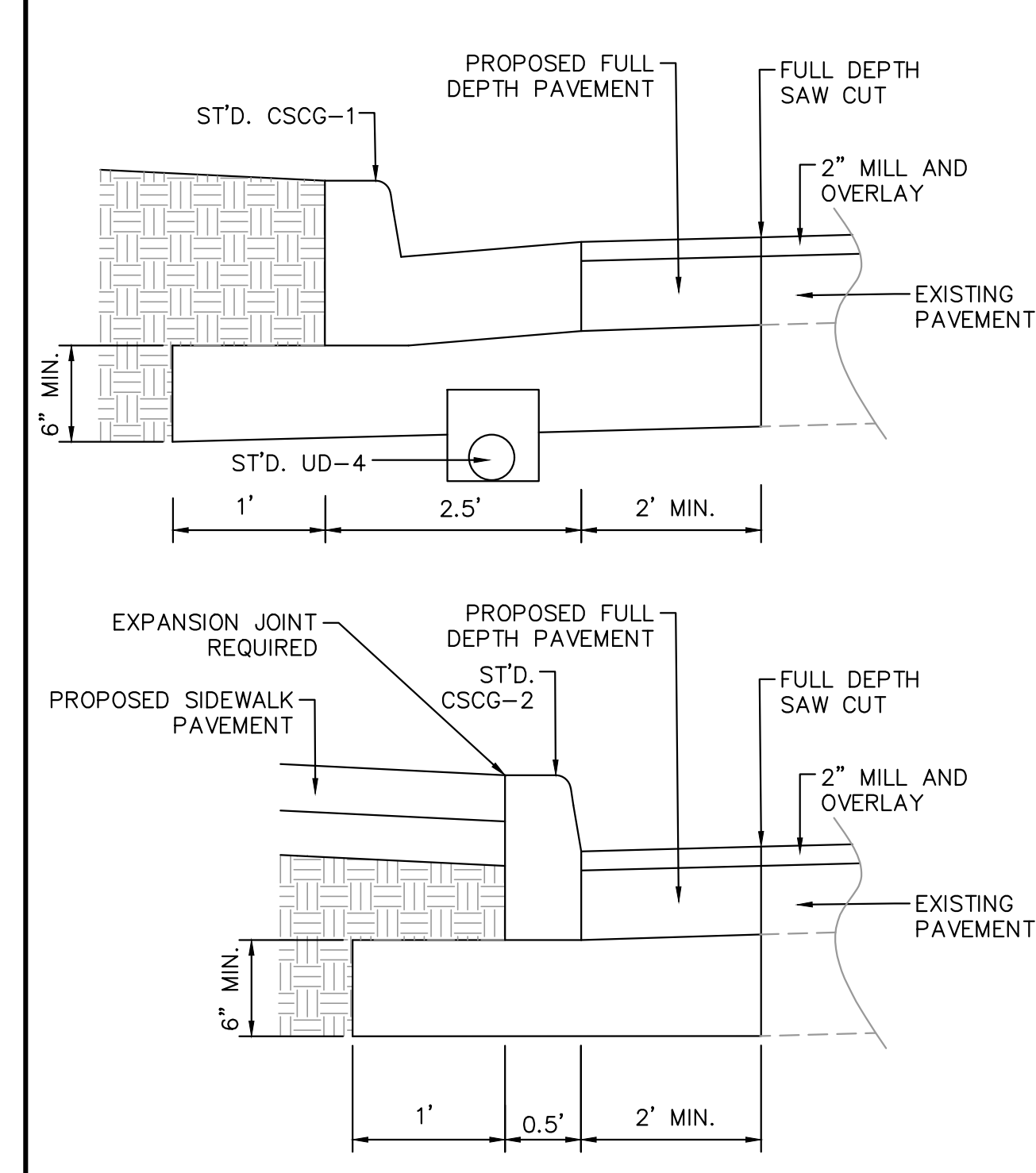
▲ DEPTH OF CONCRETE BASE MAY BE EXTENDED AT THE CONTRACTOR'S OPTION TO COINCIDE WITH BOTTOM OF PAVEMENT COURSE IN WHICH BASE TERMINATES; HOWEVER, THE COST OF ADDITIONAL CONCRETE SHALL BE INCLUDED IN UNIT PRICE BID PER LINEAR FOOT OF BARRIER.

SPECIFICATION REFERENCE	CONCRETE MEDIAN BARRIER	VDOT	
105 502		ROAD AND BRIDGE STANDARDS	REVISION DATE: 7/16
	VIRGINIA DEPARTMENT OF TRANSPORTATION	SHEET 1 OF 1	
	2016 ROAD & BRIDGE STANDARDS	502.04	

METRO ROAD CURB TIE IN DETAIL



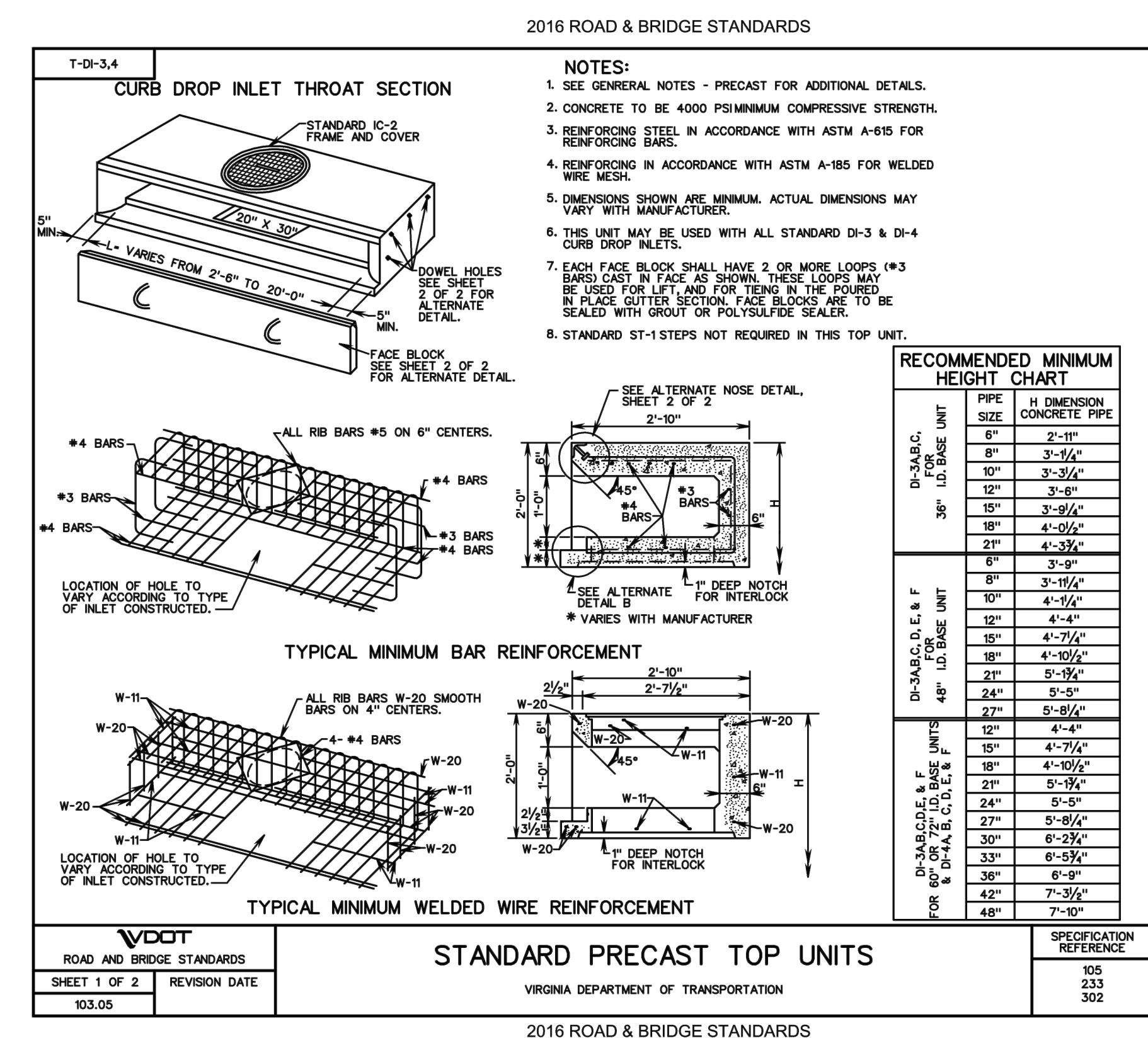
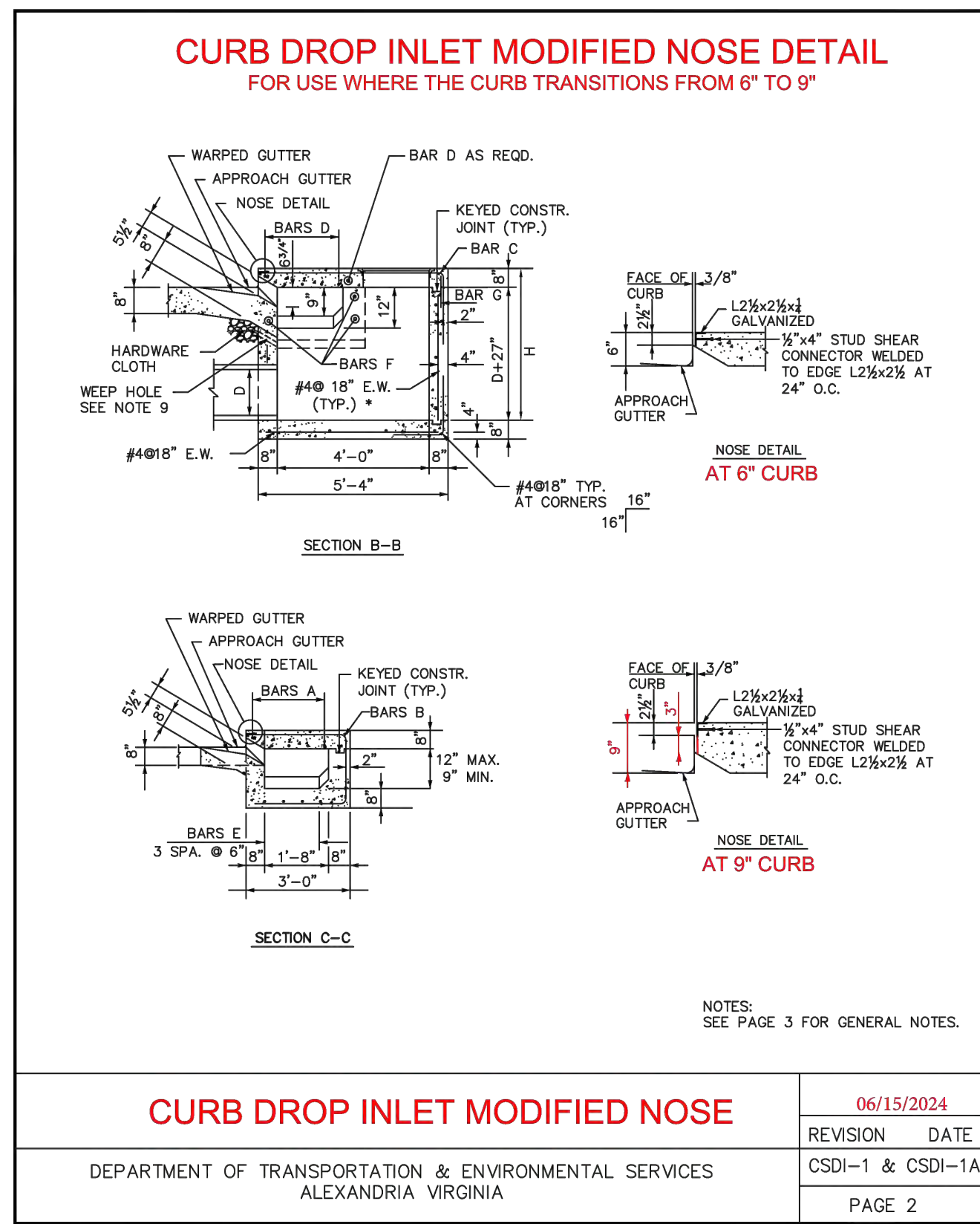
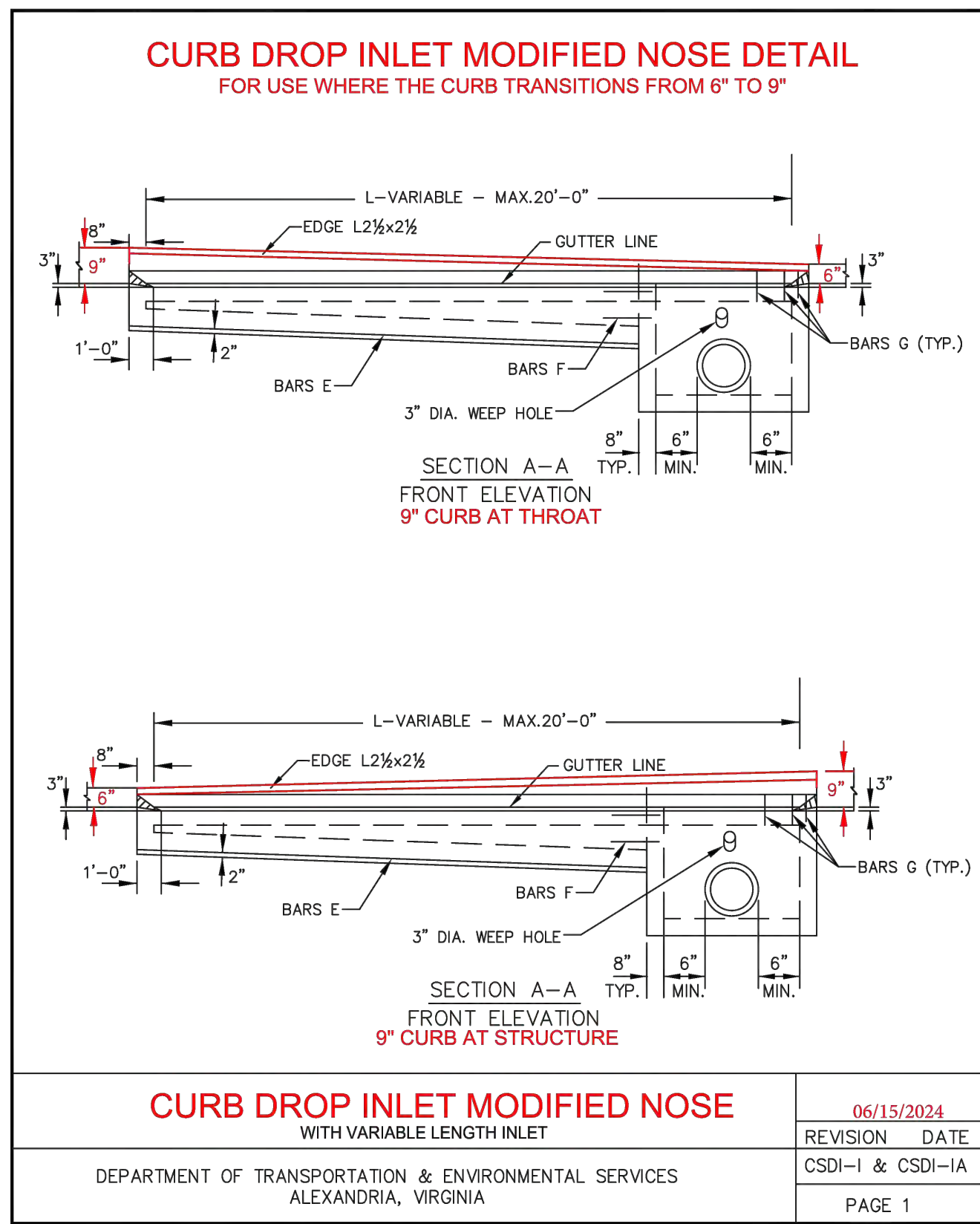
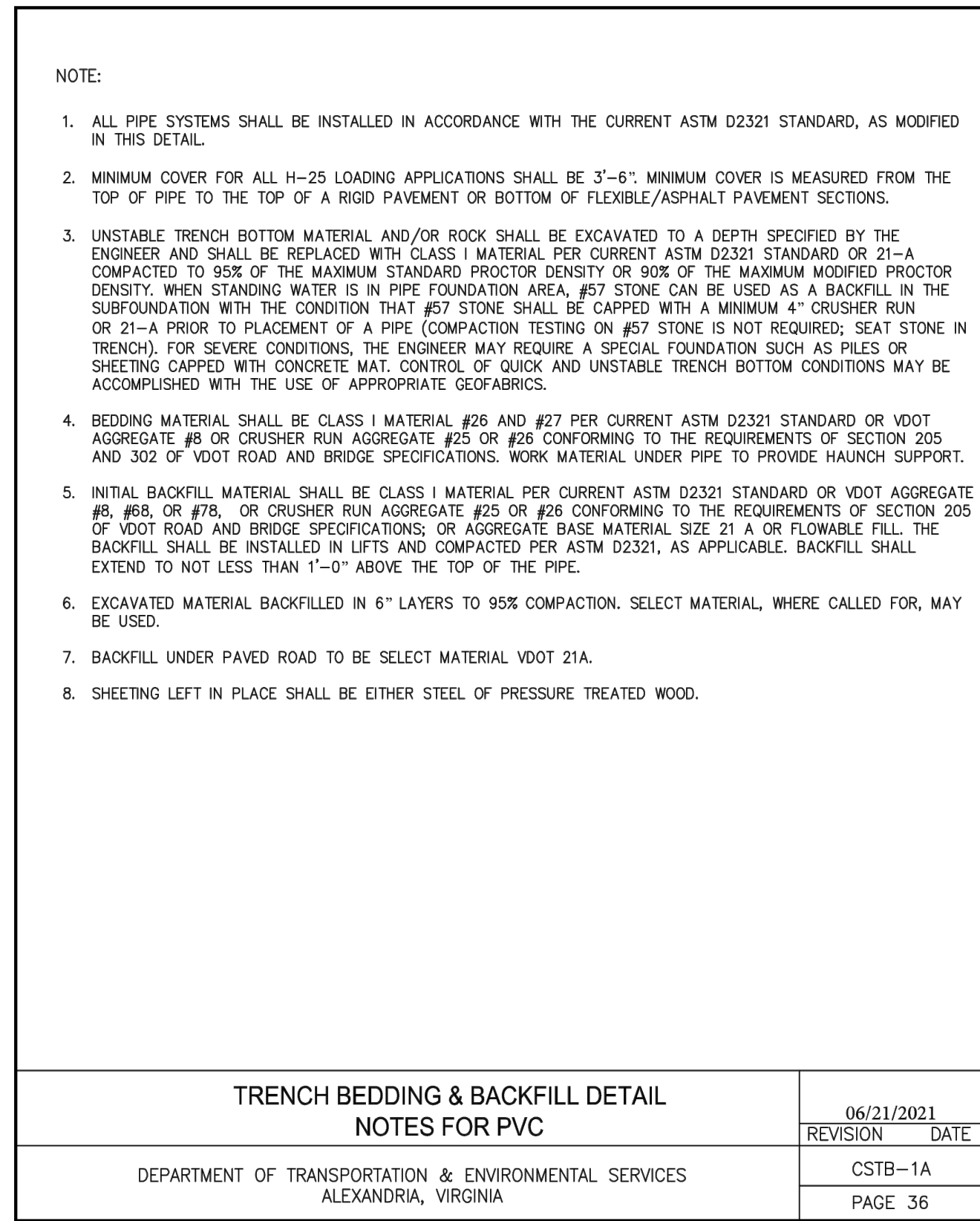
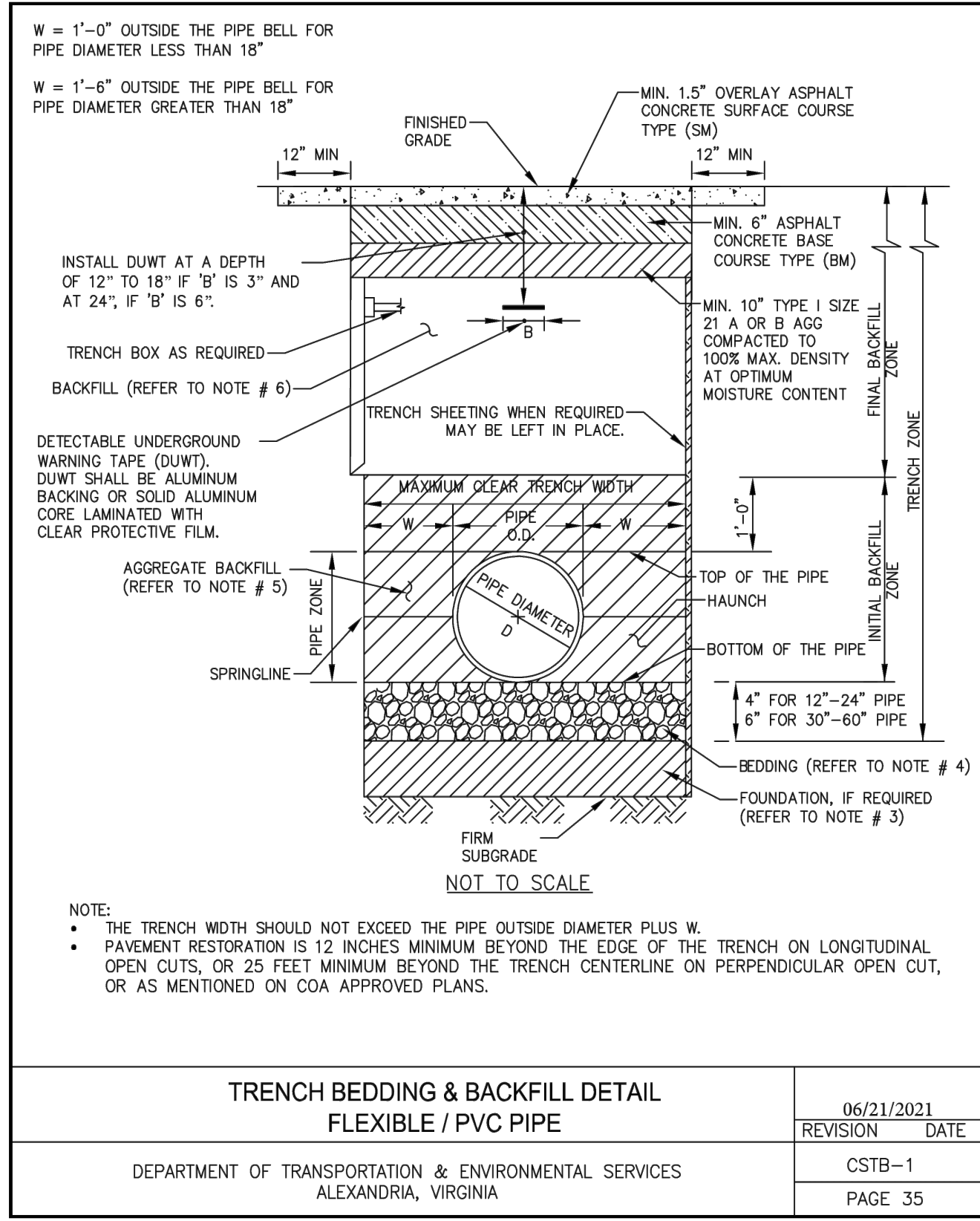
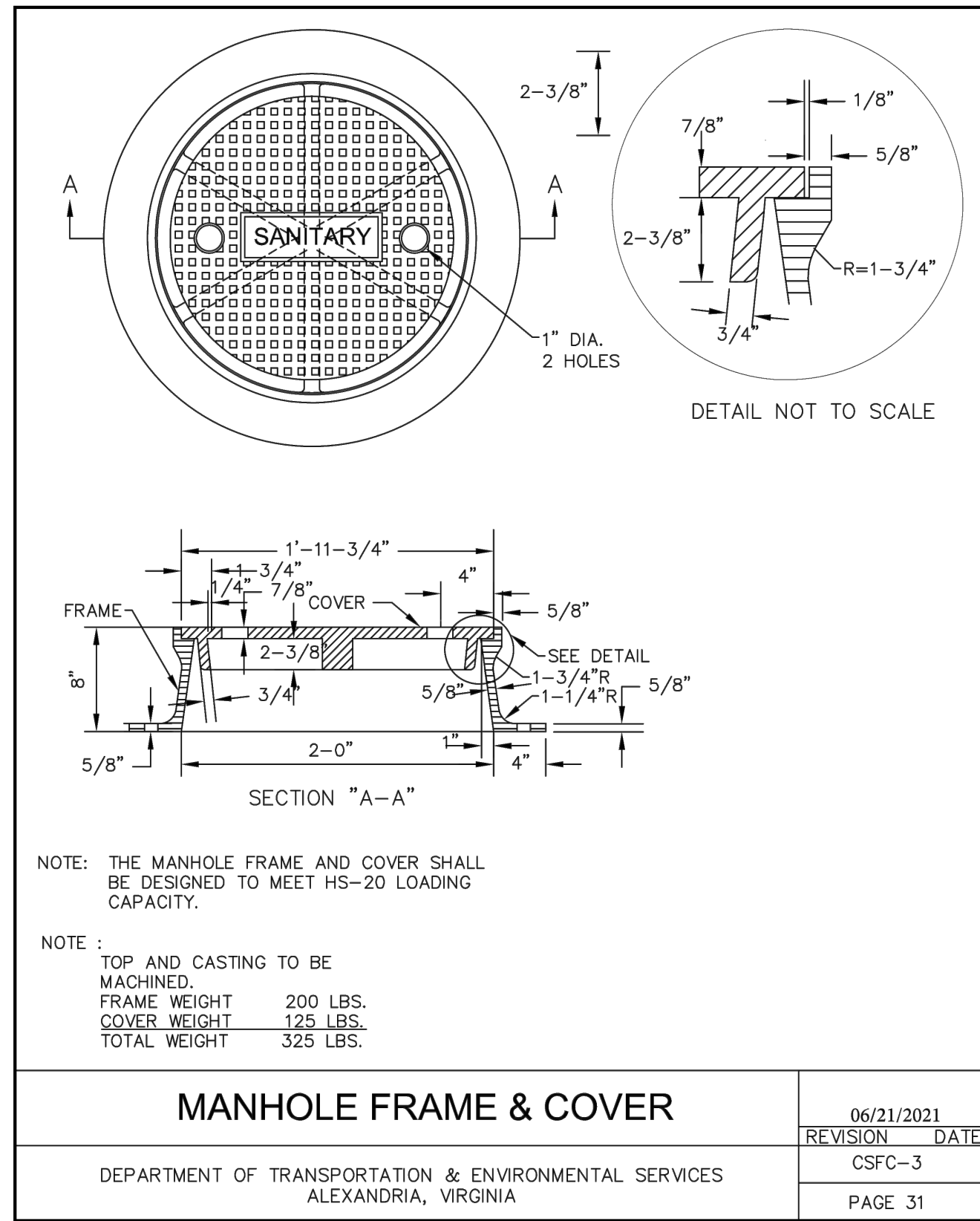
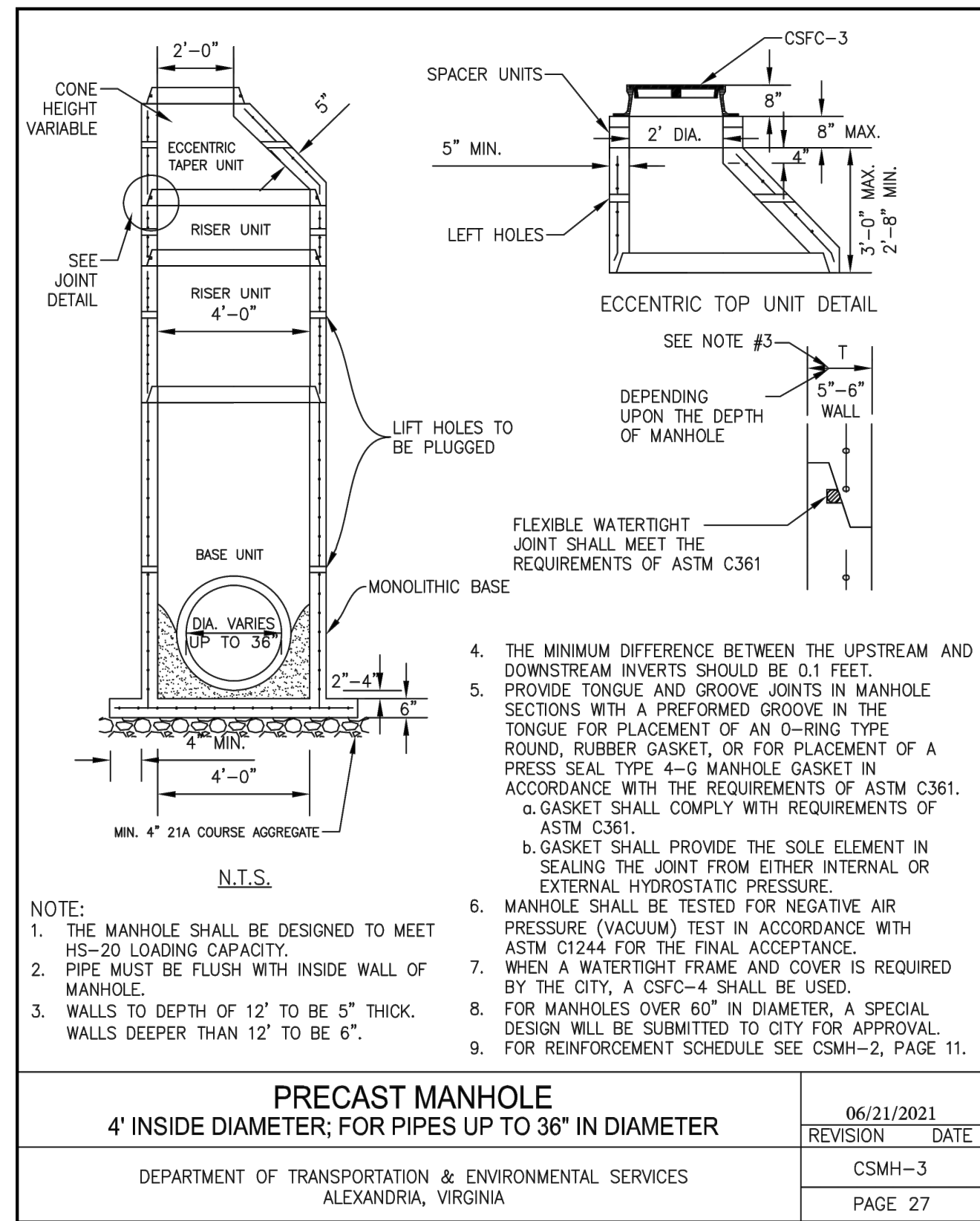
CURB AND PAVEMENT SAW CUT DETAIL



NOTE

- ALL PAVEMENT WIDENING SHALL BE PERFORMED IN ACCORDANCE WITH STANDARD WP-2.
- CURB AND/OR GUTTER SHALL FOLLOW STANDARD CSCG-1 OR CSCG-2.
- NEW PAVEMENT AREAS SHALL BE THE GREATER OF EXISTING PAVEMENT DEPTHS OR 2" SURFACE COURSE ASPHALT CONCRETE, TYPE SM-9.5D, 2.5" ASPHALT CONCRETE COURSE, TYPE IM-19.0D, 4" ASPHALT CONCRETE COURSE, TYPE BM-25.0A, AND MIN. 8" AGGREGATE BASE MATERIAL, TYPE I, SIZE NO. 21B OR EXTENDED TO THE BOTTOM OF EXISTING AGGREGATE, WHICHEVER IS GREATER (MIN. 6" BENEATH CURB AND/OR GUTTER).
- MILL AND OVERLAY OF THE EXISTING PAVEMENT SHALL BE 2" OF SURFACE COURSE ASPHALT CONCRETE, TYPE SM-9.5D.
- CONNECT PROPOSED UD-4 TO EXISTING UNDERDRAIN OR STORM STRUCTURE. IF NO CONNECTION IS POSSIBLE, DO NOT INSTALL UPSTREAM UD-4. THE UD-4 IS TO BE CENTERED UNDER THE PROPOSED GUTTER PAN.





ALEXANDRIA

CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

90% DESIGN PHASE

WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

DETAILS

SHEET
C-003C
SCALE NTS

ALEXANDRIA PROJECT NO.: 110104122
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REVISIONS	DESCRIPTION

va811.com
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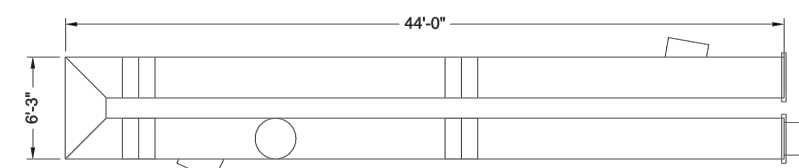
KNOW WHAT'S BELOW.
CALL BEFORE YOU DIG.
DIAL 811 IN VIRGINIA OR
1-800-552-7001

PROJECT SUMMARY

- CALCULATION DETAILS**
 • LOADINGS = HSDHSRHSB
 • APPROX. LINEAR FOOTAGE = 88 LF
- STORAGE SUMMARY**
 • STORAGE VOLUME REQUIRED = 435 CF
 • PIPE STORAGE VOLUME = 438 CF
 • BACKFILL STORAGE VOLUME = 0 CF
 • TOTAL STORAGE PROVIDED = 438 CF

- PIPE DETAILS**
 • DIAMETER = 30"
 • CORRUGATION = 2.23x12
 • GAUGE = 16
 • COATING = A12
 • WALL TYPE = SOLID
 • BARREL SPACING = 15"

- BACKFILL DETAILS**
 • WIDTH AT ENDS = 12"
 • ABOVE PIPE = 4"
 • WIDTH AT SIDES = 12"
 • BELOW PIPE = 0"



NOTES

- ALL RISER AND STUB DIMENSIONS ARE TO CENTERLINE. ALL ELEVATIONS, DIMENSIONS AND LOCATIONS OF RISERS AND INLETS, SHALL BE VERIFIED BY THE ENGINEER OF RECORD PRIOR TO RELEASING FOR FABRICATION.
- ALL FITTINGS AND REINFORCEMENT COMPLY WITH ASTM A995.
- ALL RISERS AND STUBS ARE 2 1/2" x 1/2" CORRUGATION AND 16 GAUGE UNLESS OTHERWISE NOTED.
- RISERS TO BE FIELD TRIMMED TO GRADE.
- QUANTITY OF PIPE SHOWN DOES NOT PROVIDE EXTRA PIPE FOR CONNECTING THE SYSTEM TO EXISTING PIPE OR DRAINAGE STRUCTURES. OUR SYSTEM AS DETAILED PROVIDES NOMINAL INLET AND/OR OUTLET PIPE STUB FOR CONNECTION TO EXISTING DRAINAGE FACILITIES. IF ADDITIONAL PIPE IS NEEDED IT IS THE RESPONSIBILITY OF THE CONTRACTOR.
- BAND TYPE TO BE DETERMINED UPON FINAL DESIGN.
- THE PROJECT SUMMARY IS REFLECTIVE OF THE DYODS DESIGN. QUANTITIES ARE APPROX. AND SHOULD BE VERIFIED UPON FINAL DESIGN AND APPROVAL. FOR EXAMPLE, TOTAL EXCAVATION DOES NOT CONSIDER ALL VARIABLES SUCH AS SHORING AND ONLY ACCOUNTS FOR MATERIAL WITHIN THE ESTIMATED EXCAVATION FOOTPRINT.
- THESE DRAWINGS ARE FOR CONCEPTUAL PURPOSES AND DO NOT REFLECT ANY LOCAL PREFERENCES OR REGULATIONS. PLEASE CONTACT YOUR LOCAL CONTECH REP FOR MODIFICATIONS.

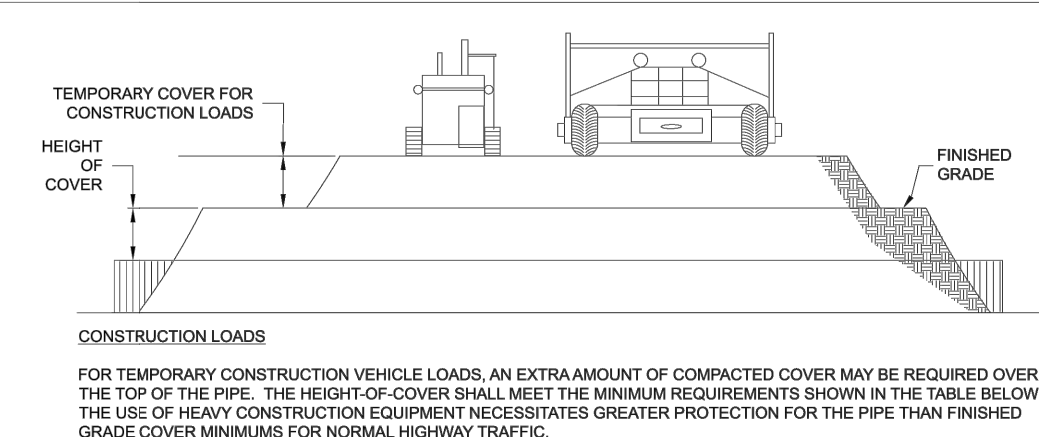
CONTECH ENGINEERED SOLUTIONS LLC
 www.contechES.com
 9025 Centre Pointe Dr., Suite 400, West Chester, OH 45099
 800-338-1122 513-645-7000 513-645-7993 FAX

CONTECH ENGINEERED SOLUTIONS
 CONTECH DYODS DRAWING

ASSEMBLY SCALE: 1" = 10'

DY050507 West End Transitway
 Outfall A
 Alexandria, VA
 DETENTION SYSTEM

PROJECT NO.	DESIGN NO.	DATE
3880	5057	7/8/2024
DESIGNED BY	DRAWN BY	
DYO	DYO	
CHECKED BY	APPROVED BY	
DYO	DYO	
SHEET NO.		1



PIPE SPAN, INCHES	AXLE LOADS (kips)			
	18-50	55-75	75-110	110-150
12-42	2.0	2.5	3.0	3.0
48-72	3.0	3.0	3.5	4.0
78-120	3.0	3.5	4.0	4.0
128-144	3.5	4.0	4.5	4.5

CONSTRUCTION LOADING DIAGRAM
 SCALE: N.T.S.

SCOPE: THIS SPECIFICATION COVERS THE MANUFACTURE AND INSTALLATION OF THE DESIGNED DETENTION SYSTEM DETAILED IN THE PROJECT PLANS.

MATERIAL: THE MATERIAL SHALL CONFORM TO THE APPLICABLE REQUIREMENTS LISTED BELOW.

ALUMINIZED TYPE 2 STEEL COLS SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M-274 OR ASTM A-92.

THE GALVANIZED STEEL COLS SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M-218 OR ASTM A-929.

THE POLYMER COATED STEEL COLS SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M-248 OR ASTM A-742.

THE ALUMINUM COLS SHALL CONFORM TO THE APPLICABLE REQUIREMENTS OF AASHTO M-197 OR ASTM B-744.

CONSTRUCTION LOADS: CONSTRUCTION LOADS MAY BE HIGHER THAN FINAL LOADS. FOLLOW THE MANUFACTURER'S OR NSCP'S GUIDELINES.

NOTE: THESE DRAWINGS ARE FOR CONCEPTUAL PURPOSES AND DO NOT REFLECT ANY LOCAL PREFERENCES OR REGULATIONS. PLEASE CONTACT YOUR LOCAL CONTECH REP FOR MODIFICATIONS.

SPECIFICATION FOR DESIGNED DETENTION SYSTEM:

THE PIPE SHALL BE MANUFACTURED IN ACCORDANCE TO THE APPLICABLE REQUIREMENTS LISTED BELOW.

ALUMINIZED TYPE 2: AASHTO M-36 OR ASTM A-700
 GALVANIZED: AASHTO M-38 OR ASTM A-700
 ALUMINUM: AASHTO M-196 OR ASTM B-744

APPLICABLE: AASHTO M-245 OR ASTM A-762
 ALUMINUM: AASHTO M-196 OR ASTM B-744

HANDLING AND ASSEMBLY SHALL BE IN ACCORDANCE WITH NSCP'S (NATIONAL CORRUGATED STEEL PIPE ASSOCIATION) FOR ALUMINIZED TYPE 2, GALVANIZED OR POLYMER COATED STEEL. SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS FOR ALUMINUM PIPE.

REQUIREMENTS: INSTALLATION SHALL BE IN ACCORDANCE WITH AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, SECTION 26, DIVISION II OR ASTM A-708 (FOR ALUMINIZED TYPE 2, GALVANIZED OR POLYMER COATED STEEL) OR ASTM B-788 FOR ALUMINUM PIPE) AND IN CONFORMANCE WITH THE PROJECT PLANS AND SPECIFICATIONS. IF THERE ARE ANY INCONSISTENCIES OR CONFLICTS THE CONTRACTOR SHOULD DISCUSS AND RESOLVE WITH THE SITE ENGINEER.

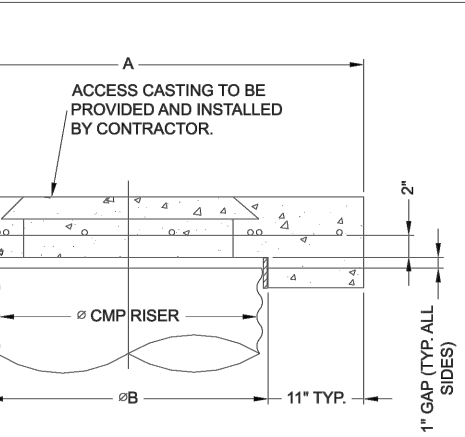
IT IS ALWAYS THE RESPONSIBILITY OF THE CONTRACTOR TO FOLLOW OSHA GUIDELINES FOR SAFE PRACTICES.

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 CONTECH DYODS DRAWING

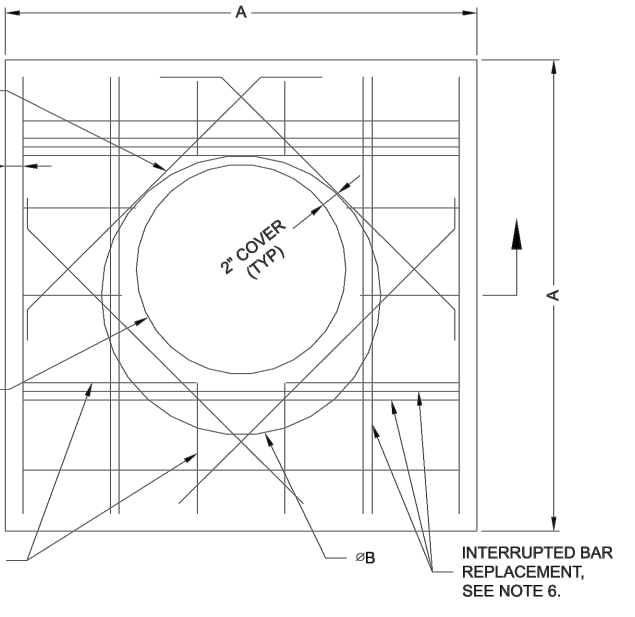
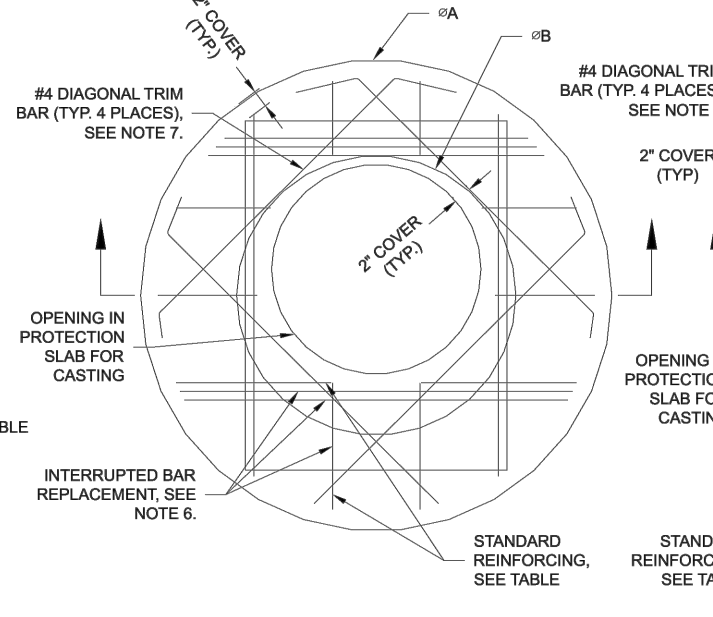
DY050507 West End Transitway
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3880	5057	7/8/2024
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DYO	DYO	
CHECKED BY	APPROVED BY	
DYO	DYO	
SHEET NO.		1



REINFORCING TABLE				
Ø CMP RISER	A	Ø B	REINFORCING	*BEARING PRESSURE (PSF)
24"	4'-4"	20"	#5 @ 12" OCEW #5 @ 12" OCEW	2,410 1,780
30"	4'-4" X 4'-8"	32"	#5 @ 12" OCEW #5 @ 12" OCEW	2,120 1,530
36"	4'-5" X 5'	38"	#5 @ 10" OCEW #5 @ 10" OCEW	1,890 1,350
42"	4'-5" 6" 5'-6" X 5'-6"	44"	#5 @ 10" OCEW #5 @ 10" OCEW	1,720 1,210
48"	4'-6" X 6'	50"	#5 @ 8" OCEW #5 @ 8" OCEW	1,600 1,100

** ASSUMED SOIL BEARING CAPACITY



ROUND OPTION PLAN VIEW

SQUARE OPTION PLAN VIEW

- NOTES:**
- DESIGN IN ACCORDANCE WITH AASHTO, 17th EDITION.
 - DESIGN LOAD HS2S.
 - EARTH COVER = 1' MAX.
 - CONCRETE STRENGTH = 3,500 psi
 - REINFORCING STEEL = ASTM A615, GRADE 60.
 - PROVIDE ADDITIONAL REINFORCING AROUND OPENINGS EQUAL TO THE BARS INTERRUPTED, HALF EACH SIDE. ADDITIONAL BARS TO BE IN THE SAME PLANE.
 - TRIM OPENING WITH DIAGONAL #4 BARS, EXTEND BARS A MINIMUM OF 12" BEYOND OPENING. BEND BARS AS REQUIRED TO MAINTAIN BAR COVER.
 - PROTECTION SLAB AND ALL MATERIALS TO BE PROVIDED AND INSTALLED BY CONTRACTOR.
 - DETAIL DESIGN BY DELTA ENGINEERING, BINGHAMTON, NY.

MANHOLE CAP DETAIL
 SCALE: N.T.S.

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 CONTECH DYODS DRAWING

DY050507 West End Transitway
 Outfall A
 Alexandria, VA
 DETENTION SYSTEM

PROJECT NO.	DESIGN NO.	DATE
3880	5057	7/8/2024
DESIGNED BY	DRAWN BY	
DYO	DYO	
CHECKED BY	APPROVED BY	
DYO	DYO	
SHEET NO.		1

TABLE 1:

DIAMETER, D	MIN. COVER	CORR. PROFILE
6"-10"	12"	1 1/2" x 14"
12"-48"	12"	2 2/3" x 12"
>48"-96"	12"	3" x 1", 5" x 1"
>96"	D/B	3" x 1", 5" x 1"

- STRUCTURAL BACKFILL MUST EXTEND TO LIMITS OF THE TABLE.
- TOTAL HEIGHT OF COMPACTED COVER FOR CONVENTIONAL HIGHWAY LOADS IS MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR TOP OF RIGID PAVEMENT.
- ULTRA-CALSO AVAILABLE FOR SIZES 18" - 120" WITH 3/4" X 3/4" X 1/2" CORRUGATION.

TABLE 2: SOLID STANDARD

MATERIAL LOCATION	MATERIAL SPECIFICATION	DESCRIPTION
1 FILL ENVELOPE WIDTH	PER ENGINEER OF RECORD	MINIMUM TRENCH WIDTH MUST ALLOW ROOM FOR PROPER COMPACTION OF HAUNCH MATERIALS UNDER THE PIPE. THE SUGGESTED MINIMUM TRENCH WIDTH, OR EOR RECOMMENDATION: PIPE ≤ 12" D = 14" PIPE = 14" D + 10"
2 FOUNDATION	AASHTO 26.5.2 OR PER ENGINEER OF RECORD	PRIOR TO PLACING THE BEDDING, THE FOUNDATION MUST BE CONSTRUCTED TO A UNIFORM AND STABLE GRADE. IN THE EVENT THAT UNSUITABLE FOUNDATION MATERIALS ARE ENCOUNTERED DURING EXCAVATION, THEY SHALL BE REMOVED AND FOUNDATION BROUGHT BACK TO GRADE WITH A FILL MATERIAL APPROVED BY THE ENGINEER OF RECORD.
3 BEDDING	AASHTO M 43.3, 357, 4, 467, 5, 56, 57 (APPROVED REGIONAL EQUIVALENTS INCLUDE CA-7)	ENGINEER OF RECORD TO DETERMINE IF BEDDING IS REQUIRED. PIPE MAY BE PLACED ON THE TRENCH BOTTOM OF A RELATIVELY LOOSE, NATIVE SUITABLE WELL GRADED GRANULAR MATERIAL THAT IS ROUGHLY SHAPED TO FIT THE BOTTOM OF THE PIPE, 2" MIN DEPTH. THE BEDDING MATERIAL MAY BE SUITABLE FOUNDATION SOILS CONFORMING TO AASHTO SOIL CLASSIFICATIONS A1, A2, OR A3 WITH MAXIMUM PARTICLE SIZE OF 3" PER AASHTO 26.3.8.1
4 CORRUGATED METAL PIPE		
5A CRITICAL BACKFILL	AASHTO M 145: A-1, A-2, A-3	HAUNCH ZONE MATERIAL SHALL BE HAND SHOVELED OR SHOVEL SLICED INTO PLACE TO ALLOW FOR PROPER COMPACTION WITHOUT SOFT SPOTS. BACKFILL SHALL BE PLACED IN 8" H-LOOSE LIFTS AND COMPACTED TO 90% STANDARD PROCTOR PER AASHTO 99. BACKFILL SHALL BE PLACED SUCH THAT THERE IS NO MORE THAN A THREE LIFT (24") DIFFERENTIAL BETWEEN ANY OF THE PRES AT ANY TIME DURING THE BACKFILL PROCESS. THE BACKFILL SHOULD BE ADVANCED ALONG THE LENGTH OF THE SYSTEM TO AVOID DIFFERENTIAL LOADING. WELL GRADED GRANULAR MATERIAL WHICH MAY CONTAIN SMALL TALLS AND MAXIMUM PARTICLE SIZE OF 3" (PER AASHTO 26.3.8.1 AND 12.4.1.3).
5B BACKFILL	AASHTO M 145: A-1, A-2, A-3	
6 COVER MATERIAL	UP TO MIN. COVER - SEE SA AND SB ABOVE ABOVE MIN. COVER - PER ENGINEER OF RECORD	COVER MATERIAL MAY INCLUDE NON-BITUMINOUS, GRANULAR ROAD BASE MATERIAL WITHIN MIN COVER LIMITS
7 RIGID OR FLEXIBLE PAVEMENT (IF APPLICABLE)	PER ENGINEER OF RECORD	FLEXIBLE PAVEMENT SHOULD NOT BE COUNTED AS PART OF THE FILL HEIGHT OVER THE CMP. FINAL BACKFILL MATERIAL SELECTION AND COMPACTION REQUIREMENTS SHALL FOLLOW THE PROJECT PLANS AND SPECIFICATIONS PER THE ENGINEER OF RECORD.
8 OPTIONAL SOIL GEOTEXTILE	NONE	GEOTEXTILE LAYER IS RECOMMENDED ON SIDES OF EXCAVATION TO PREVENT SOIL MIGRATION.
9 OPTIONAL GEOTEXTILE BETWEEN LAYERS	NONE	IF SOIL TYPES DIFFER AT ANY POINT ABOVE PIPE INVERT, A GEOTEXTILE LAYER IS RECOMMENDED TO BE PLACED BETWEEN THE LAYERS TO PREVENT SOIL MIGRATION.

- NOTES:**
- FOR MULTIPLE BARREL INSTALLATIONS, THE RECOMMENDED STANDARD SPACING BETWEEN PARALLEL PIPE RUNS SHALL BE THE PIPE DIAMETER (D) BUT NO LESS THAN 12" FOR DIAMETERS < 72". FOR 72" AND LARGER DIAMETERS, THE MINIMUM SPACING IS 30". CONTACT YOUR CONTECH REPRESENTATIVE FOR NONSTANDARD SPACING.
 - APPROVED REGIONAL EQUIVALENTS FOR SECTION 5A INCLUDE CA-7, CDDOT #67, MIDOT 2G, 34G, OR 21A STONE OR GRAVEL, #5, #57, MIDOT 6A, 2G, 3G, 34G.

MANUFACTURER RECOMMENDED BACKFILL
 NOT TO SCALE

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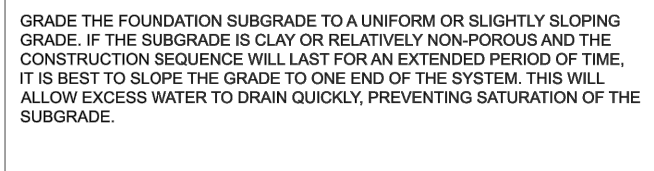
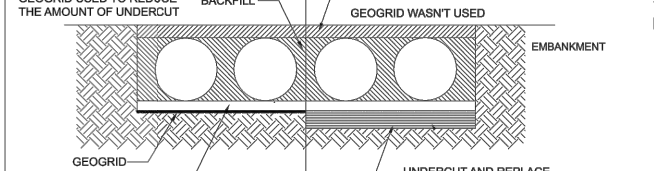
DY050507 West End Transitway
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CMP DETENTION INSTALLATION GUIDE
 PRIOR INSTALLATION OF A FLEXIBLE UNDERGROUND DETENTION SYSTEM WILL ENSURE LONG-TERM PERFORMANCE. THE CONFIGURATION OF THESE SYSTEMS OFTEN REQUIRES SPECIAL CONSTRUCTION PRACTICES THAT DIFFER FROM CONVENTIONAL FLEXIBLE PIPE CONSTRUCTION. CONTECH ENGINEERED SOLUTIONS STRONGLY RECOMMENDS SOILS ENGINEERING FOR PRE-CONSTRUCTION MEETING WITH YOUR LOCAL SALES ENGINEER TO DETERMINE IF ADDITIONAL MEASURES, NOT COVERED IN THIS GUIDE, ARE APPROPRIATE FOR YOUR SITE.

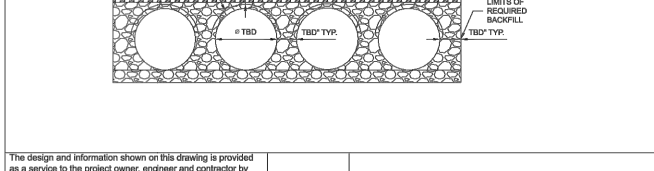
FOUNDATION
 CONSTRUCT A FOUNDATION THAT CAN SUPPORT THE DESIGN LOADING APPLIED BY THE PIPE AND ADJACENT BACKFILL WEIGHT AS WELL AS MAINTAIN ITS INTEGRITY DURING CONSTRUCTION.

IF SOFT OR UNSUITABLE SOILS ARE ENCOUNTERED, REMOVE THE POOR SOILS DOWN TO A SUITABLE DEPTH AND THEN BUILD UP TO THE APPROPRIATE ELEVATION WITH A COMPETENT BACKFILL MATERIAL. THE STRUCTURAL FILL MATERIAL GRADATION SHOULD NOT ALLOW THE MIGRATION OF FINES, WHICH CAN CAUSE SETTLEMENT OF THE DETENTION SYSTEM OR PAVEMENT ABOVE. IF THE STRUCTURAL FILL MATERIAL IS NOT COMPATIBLE WITH THE UNDERLYING SOILS AN ENGINEERING FABRIC SHOULD BE USED AS A SEPARATOR. IN SOME CASES, USING A STEEP REINFORCING GEORID REDUCES OVER EXCAVATION AND REPLACEMENT FILL QUANTITIES.



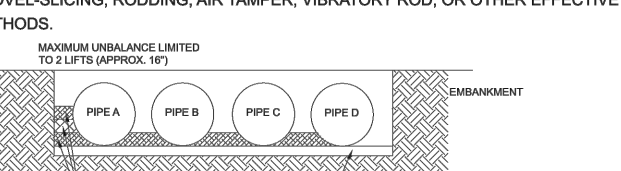
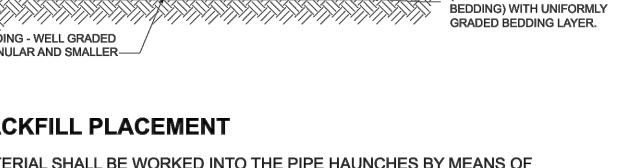
GEOMEMBRANE BARRIER
 A SITE'S RESISTIVITY MAY CHANGE OVER TIME WHEN VARIOUS TYPES OF SALTING AGENTS ARE USED, SUCH AS ROAD SALTS FOR DEICING AGENTS. IF SALTING AGENTS ARE USED ON OR NEAR THE PROJECT SITE, A GEOMEMBRANE BARRIER IS RECOMMENDED WITH THE SYSTEM. THE GEOMEMBRANE LINER IS INTENDED TO HELP PROTECT THE SYSTEM FROM THE POTENTIAL ADVERSE EFFECTS THAT MAY RESULT FROM THE USE OF SUCH AGENTS INCLUDING PREMATURE CORROSION AND REDUCED ACTUAL SERVICE LIFE.

THE PROJECTS ENGINEER OF RECORD IS TO EVALUATE WHETHER SALTING AGENTS WILL BE USED ON OR NEAR THE PROJECT SITE, AND USE HIS/HER BEST JUDGEMENT TO DETERMINE IF AN ADDITIONAL PROTECTIVE MEASURE IS REQUIRED. BELOW IS A TYPICAL DETAIL SHOWING THE PLACEMENT OF A GEOMEMBRANE BARRIER FOR PROJECTS WHERE SALTING AGENTS ARE USED ON OR NEAR THE PROJECT SITE.



IN-SITU TRENCH WALL
 IF EXCAVATION IS REQUIRED, THE TRENCH WALL NEEDS TO BE CAPABLE OF SUPPORTING THE LOAD THAT THE PIPE BEHIND AS THE SYSTEM IS LOADED. IF SOILS ARE NOT CAPABLE OF SUPPORTING THESE LOADS, THE PIPE CAN DEFORM. PERFORM A SIMPLE SOIL PRESSURE CHECK USING THE APPLIED LOADS TO DETERMINE THE LIMITS OF EXCAVATION BEYOND THE SPRING LINE OF THE OUTER MOST PIPES.

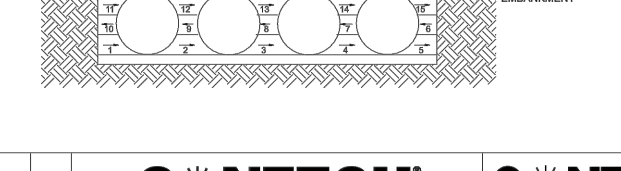
IN MOST CASES THE REQUIREMENTS FOR A SAFE WORK ENVIRONMENT AND PROPER BACKFILL PLACEMENT AND COMPACTION TAKE CARE OF THIS CONCERN.



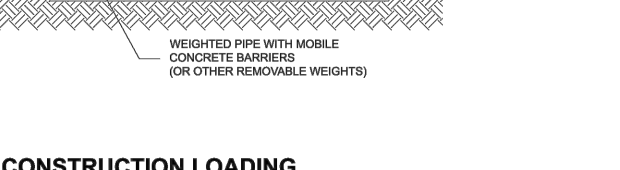
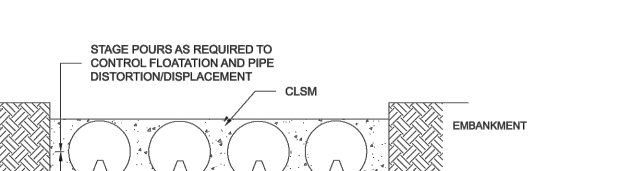
BACKFILL PLACEMENT
 MATERIAL SHALL BE WORKED INTO THE PIPE HAUNCHES BY MEANS OF SHOVELS, SLICING, RODDING, AIR TAMPER, VIBRATORY ROD, OR OTHER EFFECTIVE METHODS.

IF AASHTO T99 PROCEDURES ARE DETERMINED INFEASIBLE BY THE GEOTECHNICAL ENGINEER OF RECORD, COMPACTION IS CONSIDERED ADEQUATE WHEN NO FURTHER YIELDING OF THE MATERIAL IS OBSERVED UNDER THE COMPACTOR, OR UNDER FOOT, AND THE GEOTECHNICAL ENGINEER OF RECORD (OR REPRESENTATIVE THEREOF) IS SATISFIED WITH THE LEVEL OF COMPACTION.

FOR LARGE SYSTEMS, CONVEYOR SYSTEMS, BACKHOES WITH LONG REACHES OR DRAGLINES WITH STONE BUCKETS MAY BE USED TO PLACE BACKFILL. ONCE MINIMUM COVER FOR CONSTRUCTION LOADING ACROSS THE ENTIRE WIDTH OF THE SYSTEM IS REACHED, ADVANCE THE EQUIPMENT TO THE END OF THE RECENTLY PLACED FILL AND BEGIN THE SEQUENCE AGAIN UNTIL THE SYSTEM IS COMPLETELY BACKFILLED. THIS TYPE OF CONSTRUCTION SEQUENCE PROVIDES ROOM FOR STOCKPILED BACKFILL DIRECTLY BEHIND THE BACKHOE, AS WELL AS THE MOVEMENT OF CONSTRUCTION TRAFFIC MATERIAL STOCKPILING ON TOP OF THE BACKFILLED DETENTION SYSTEM SHOULD BE LIMITED TO 8" TO 10" FEET HIGH AND MUST PROVIDE BALANCED LOADING ACROSS ALL BARRELS TO DETERMINE THE PROPER COVER OVER THE PIPES TO ALLOW THE MOVEMENT OF CONSTRUCTION EQUIPMENT. SEE TABLE 1, OR CONTACT YOUR LOCAL CONTECH SALES ENGINEER.

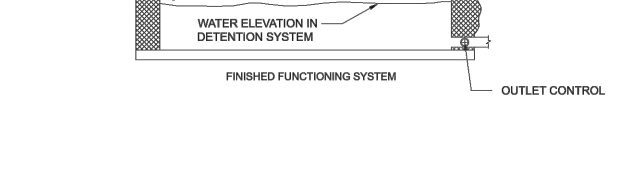
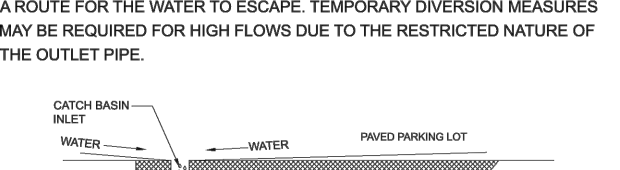


WHEN FLOWABLE FILL IS USED, YOU MUST PREVENT PIPE FLOATION. TYPICALLY, SMALL LIFTS ARE PLACED BETWEEN THE PIPES AND THEN ALLOWED TO SET UP PRIOR TO THE PLACEMENT OF THE NEXT LIFT. THE ALLOWABLE THICKNESS OF THE CLSM LIFT IS A FUNCTION OF A PROPER BALANCE BETWEEN THE UPLIFT FORCE OF THE FILL AND THE WEIGHT OF THE PIPE, AND THE EFFECT OF OTHER RESTRAINING MEASURES. THE PIPE CAN CARRY LIMITED FLUID PRESSURE WITHOUT PIPE DISTORTION OR DISPLACEMENT, WHICH ALSO AFFECTS THE CLSM LIFT THICKNESS. YOUR LOCAL CONTECH SALES ENGINEER CAN HELP DETERMINE THE PROPER LIFT THICKNESS.



CONSTRUCTION LOADING
 TYPICALLY, THE MINIMUM COVER SPECIFIED FOR A PROJECT ASSUMES H-20 LIVE LOAD. BECAUSE CONSTRUCTION LOADS OFTEN EXCEED DESIGN LIVE LOADS, INCREASED TEMPORARY MINIMUM COVER REQUIREMENTS ARE NECESSARY. SINCE CONSTRUCTION EQUIPMENT VARIES FROM JOB TO JOB, IT IS BEST TO ADDRESS EQUIPMENT SPECIFIC MINIMUM COVER REQUIREMENTS WITH YOUR LOCAL CONTECH SALES ENGINEER DURING YOUR PRE-CONSTRUCTION MEETING.

ADDITIONAL CONSIDERATIONS
 BECAUSE MOST SYSTEMS ARE CONSTRUCTED BELOW-GRADE, RAINFALL CAN RAPIDLY FILL THE EXCAVATION, POTENTIALLY CAUSING FLOATION AND MOVEMENT OF THE PREVIOUSLY PLACED PIPES. TO HELP MITIGATE POTENTIAL PROBLEMS, IT IS BEST TO START THE INSTALLATION AT THE DOWNSTREAM END WITH THE OUTLET ALREADY CONSTRUCTED TO ALLOW A ROUTE FOR THE WATER TO ESCAPE. TEMPORARY DIVERSION MEASURES MAY BE REQUIRED FOR HIGH FLOWS DUE TO THE RESTRICTED NATURE OF THE OUTLET PIPE.



CMP DETENTION SYSTEM INSPECTION AND MAINTENANCE
 UNDERGROUND STORMWATER DETENTION AND INFILTRATION SYSTEMS MUST BE INSPECTED AND MAINTAINED AT REGULAR INTERVALS FOR PURPOSES OF PERFORMANCE AND LONGEVITY.

INSPECTION
 INSPECTION IS THE KEY TO EFFECTIVE MAINTENANCE OF CMP DETENTION SYSTEMS AND IS EASILY PERFORMED. CONTECH RECOMMENDS ONGOING, ANNUAL INSPECTIONS. SITES WITH HIGH TRASH LOAD OR SMALL OUTLET CONTROL ORIFICES MAY NEED MORE FREQUENT INSPECTIONS. THE RATE AT WHICH THE SYSTEM COLLECTS POLLUTANTS WILL DEPEND MORE ON SITE SPECIFIC ACTIVITIES RATHER THAN THE SIZE OR CONFIGURATION OF THE SYSTEM.

INSPECTIONS SHOULD BE PERFORMED MORE OFTEN IN EQUIPMENT WASHDOWN AREAS, IN CLIMATES WHERE SAND AND/OR SALTING OPERATIONS TAKE PLACE, AND IN OTHER VARIOUS INSTANCES IN WHICH ONE WOULD EXPECT HEAVY ACCUMULATIONS OF SEDIMENT OR ABRASIVE/ CORROSIVE CONDITIONS. A RECORD OF EACH INSPECTION IS TO BE MAINTAINED FOR THE LIFE OF THE SYSTEM.

MAINTENANCE
 CMP DETENTION SYSTEMS SHOULD BE CLEANED WHEN AN INSPECTION REVEALS ACCUMULATED SEDIMENT OR TRASH IS CLOGGING THE DISCHARGE ORIFICE.

ACCUMULATED SEDIMENT AND TRASH CAN TYPICALLY BE EVACUATED THROUGH THE MANHOLE OVER THE OUTLET ORIFICE. IF MAINTENANCE IS NOT PERFORMED AS RECOMMENDED, SEDIMENT AND TRASH MAY ACCUMULATE IN FRONT OF THE OUTLET ORIFICE. MANHOLE COVERS SHOULD BE SECURELY SEATED FOLLOWING CLEANING ACTIVITIES. CONTECH SUGGESTS THAT ALL SYSTEMS BE DESIGNED WITH AN ACCESS/INSPECTION MANHOLE SITUATED AT OR NEAR THE INLET AND THE OUTLET ORIFICE. SHOULD IT BE NECESSARY TO GET INSIDE THE SYSTEM TO PERFORM MAINTENANCE ACTIVITIES, ALL APPROPRIATE PRECAUTIONS REGARDING CONFINED SPACE ENTRY AND OSHA REGULATIONS SHOULD BE FOLLOWED.

ANNUAL INSPECTIONS ARE BEST PRACTICE FOR ALL UNDERGROUND SYSTEMS. DURING THIS INSPECTION, IF EVIDENCE OF SALTING/DEICING AGENTS IS OBSERVED WITHIN THE SYSTEM, IT IS BEST PRACTICE FOR THE SYSTEM TO BE RINSED, INCLUDING ABOVE THE SPRING LINE SOON AFTER THE SPRING THAW AS PART OF THE MAINTENANCE PROGRAM FOR THE SYSTEM.

MAINTAINING AN UNDERGROUND DETENTION OR INFILTRATION SYSTEM IS EASIEST WHEN THERE IS NO FLOW ENTERING THE SYSTEM. FOR THIS REASON, IT IS A GOOD IDEA TO SCHEDULE THE CLEANOUT DURING DRY WEATHER.

THE FOREGOING INSPECTION AND MAINTENANCE EFFORTS HELP ENSURE UNDERGROUND PIPE SYSTEMS USED FOR STORMWATER STORAGE CONTINUE TO FUNCTION AS INTENDED BY IDENTIFYING RECOMMENDED REGULAR INSPECTION AND MAINTENANCE PRACTICES. INSPECTION AND MAINTENANCE RELATED TO THE STRUCTURAL INTEGRITY OF THE PIPE OR THE SOUNDNESS OF PIPE JOINT CONNECTIONS IS BEYOND THE SCOPE OF THIS GUIDE.

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DY050507 West End Transitway
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 Alexandria, VA
 DETENTION SYSTEM

PROJECT NO.	DESIGN NO.	DATE
3880	5057	7/8/2024
DESIGNED BY	DRAWN BY	
DYO	DYO	
CHECKED BY	APPROVED BY	
DYO	DYO	
SHEET NO.		1

WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

REVISIONS

NO.	DATE	DESCRIPTION
1	7/8/2024	ISSUED FOR PERMIT

ALEXANDRIA PROJECT NO.: 110104122
 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: VALUE DATE: 4/5/24
 DRAWN BY: VALUE DATE: 4/5/24
 CHECKED BY: VALUE DATE: 4/5/24
 APPROVED BY: VALUE DATE: 4/5/24

DETAILS

SHEET C-003D
 SCALE NTS

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 KNOW WHAT'S BELOW. CALL BEFORE YOU DIG. DIAL 811 IN VIRGINIA OR 1-800-552-7001

PROJECT SUMMARY

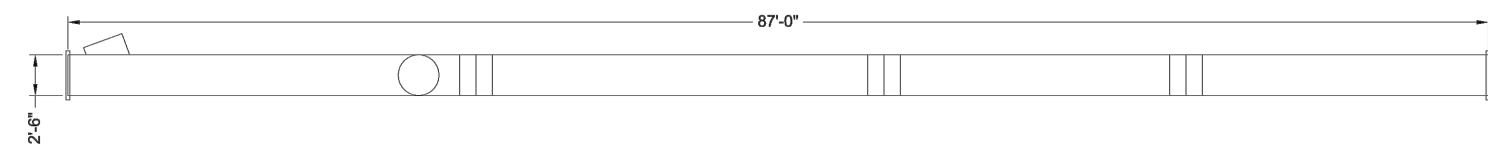
- CALCULATION DETAILS**
- LOADING = 1620#/HS2
 - APPROX. LINEAR FOOTAGE = 87 LF
- STORAGE SUMMARY**
- STORAGE VOLUME REQUIRED = 426 CF
 - PIPE STORAGE VOLUME = 427 CF
 - BACKFILL STORAGE VOLUME = 0 CF
 - TOTAL STORAGE PROVIDED = 427 CF

PIPE DETAILS

- DIAMETER = 30"
- CORRUIGATION = 2.2/3x1/2
- GAGE = 16
- COATING = ALT2
- WALL TYPE = SOLID
- BARREL SPACING = 15"

BACKFILL DETAILS

- WIDTH AT ENDS = 12"
- ABOVE PIPE = 12"
- WIDTH AT SIDES = 12"
- BELOW PIPE = 0"



NOTES

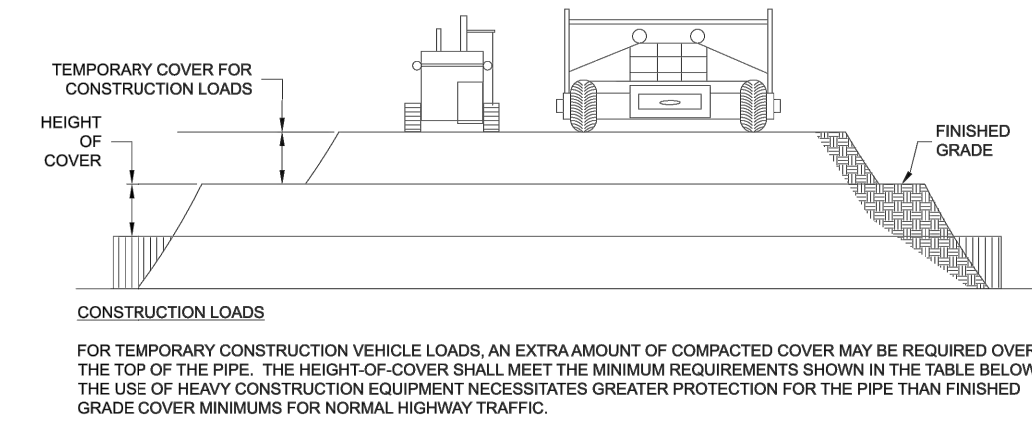
- ALL RISER AND STUB DIMENSIONS ARE TO CENTERLINE. ALL ELEVATIONS, DIMENSIONS, AND LOCATIONS OF RISERS AND INLETS, SHALL BE VERIFIED BY THE ENGINEER OF RECORD PRIOR TO RELEASING FOR FABRICATION.
- ALL FITTINGS AND REINFORCEMENT COMPLY WITH ASTM A996.
- ALL RISERS AND STUBS ARE 2 1/2" x 1/2" CORRUGATION AND 1/4" GAGE UNLESS OTHERWISE NOTED.
- RISERS TO BE FIELD TRIMMED TO GRADE.
- QUANTITY OF PIPE SHOWN DOES NOT PROVIDE EXTRA PIPE FOR CONNECTING THE SYSTEM TO EXISTING PIPE OR DRAINAGE STRUCTURES. OUR SYSTEM AS DETAILED PROVIDES NOMINAL INLET AND/OR OUTLET PIPE STUB FOR CONNECTION TO EXISTING DRAINAGE FACILITIES. IF ADDITIONAL PIPE IS NEEDED IT IS THE RESPONSIBILITY OF THE CONTRACTOR.
- BAND TYPE TO BE DETERMINED UPON FINAL DESIGN. THE PROJECT SUMMARY IS REFLECTIVE OF THE DYODS DESIGN. QUANTITIES ARE APPROX. AND SHOULD BE VERIFIED UPON FINAL DESIGN AND APPROVAL. FOR EXAMPLE, TOTAL EXCAVATION DOES NOT CONSIDER ALL VARIABLES SUCH AS SHORING AND ONLY ACCOUNTS FOR MATERIAL WITHIN THE ESTIMATED EXCAVATION FOOTPRINT.
- THESE DRAWINGS ARE FOR CONCEPTUAL PURPOSES AND DO NOT REFLECT ANY LOCAL PREFERENCES OR REGULATIONS. PLEASE CONTACT YOUR LOCAL CONTECH REP FOR MODIFICATIONS.

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ASSEMBLY SCALE: 1" = 10'

DYO5061 West End Transitway
 Outfall C
 Alexandria, VA
 DETENTION SYSTEM

PROJECT NO.	DES. NO.	DATE
38000	03081	7/8/2024
DESIGNED BY	DRAWN BY	
DYD	DYD	
CHECKED BY	APPROVED BY	
DYD	DYD	
SHEET NO.		1



CONSTRUCTION LOADING DIAGRAM
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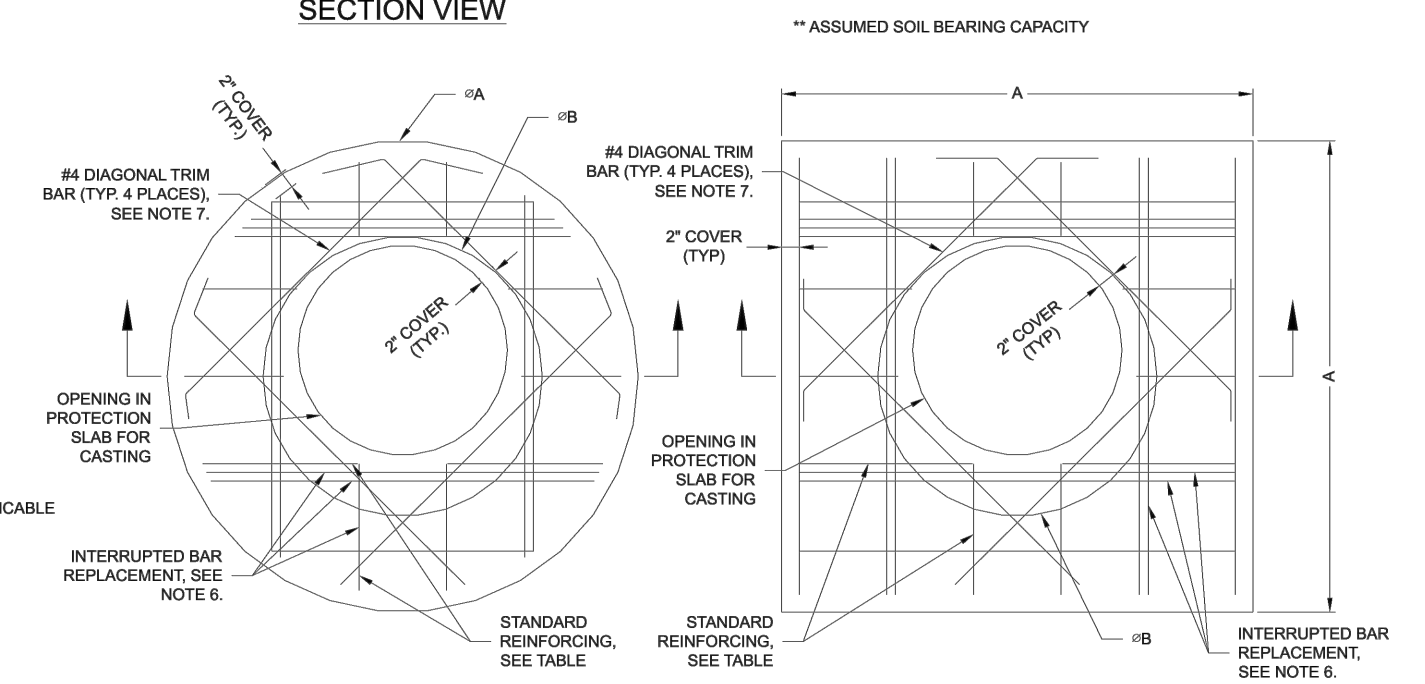
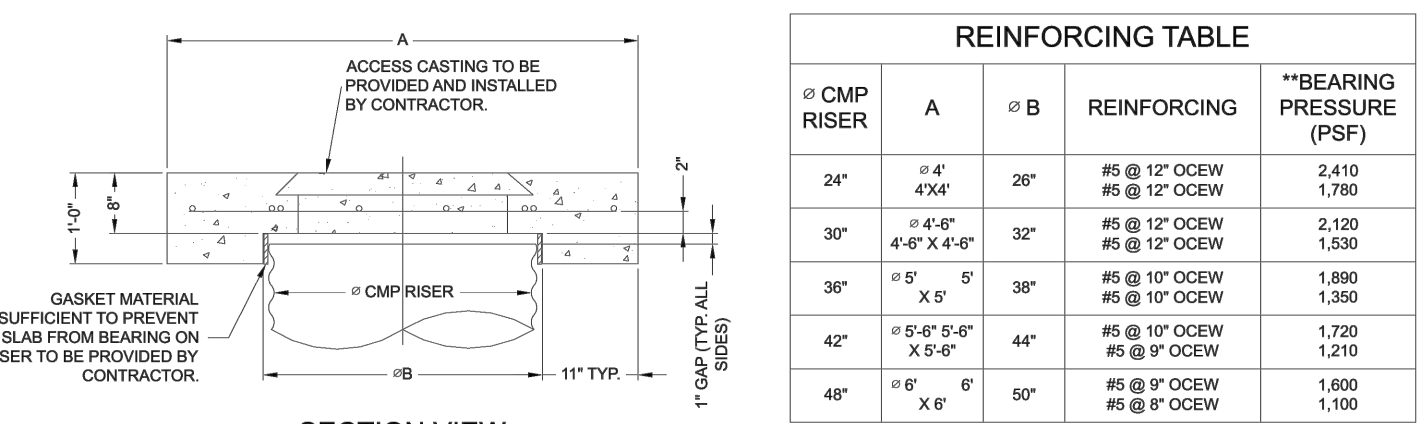
SPECIFICATION FOR DESIGNED DETENTION SYSTEM:

- SCOPE:** THIS SPECIFICATION COVERS THE MANUFACTURE AND INSTALLATION OF THE DESIGNED DETENTION SYSTEM DETAILED IN THE PROJECT PLANS.
- MATERIAL:** THE MATERIAL SHALL CONFORM TO THE APPLICABLE REQUIREMENTS LISTED BELOW.
- ALUMINIZED TYPE 2 STEEL COILS SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M-274 OR ASTM A-42.
 - THE GALVANIZED STEEL COILS SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M-218 OR ASTM A-929.
 - THE POLYMER COATED STEEL COILS SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M-246 OR ASTM A-742.
 - THE ALUMINUM COILS SHALL CONFORM TO THE APPLICABLE OF AASHTO M-197 OR ASTM B-744.
- CONSTRUCTION LOADS:** CONSTRUCTION LOADS MAY BE HIGHER THAN FINAL LOADS. FOLLOW THE MANUFACTURER'S OR NCSIP GUIDELINES.
- NOTE:** THESE DRAWINGS ARE FOR CONCEPTUAL PURPOSES AND DO NOT REFLECT ANY LOCAL PREFERENCES OR REGULATIONS. PLEASE CONTACT YOUR LOCAL CONTECH REP FOR MODIFICATIONS.
- IT IS ALWAYS THE RESPONSIBILITY OF THE CONTRACTOR TO FOLLOW OSHA GUIDELINES FOR SAFE PRACTICES.

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- REINFORCING TABLE**
- SECTION VIEW**
- ROUND OPTION PLAN VIEW**
- SQUARE OPTION PLAN VIEW**
- MANHOLE CAP DETAIL**
- SCALE: N.T.S.

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DYO5061 West End Transitway
 Outfall C
 Alexandria, VA
 DETENTION SYSTEM

PROJECT NO.	DES. NO.	DATE
38000	03081	7/8/2024
DESIGNED BY	DRAWN BY	
DYD	DYD	
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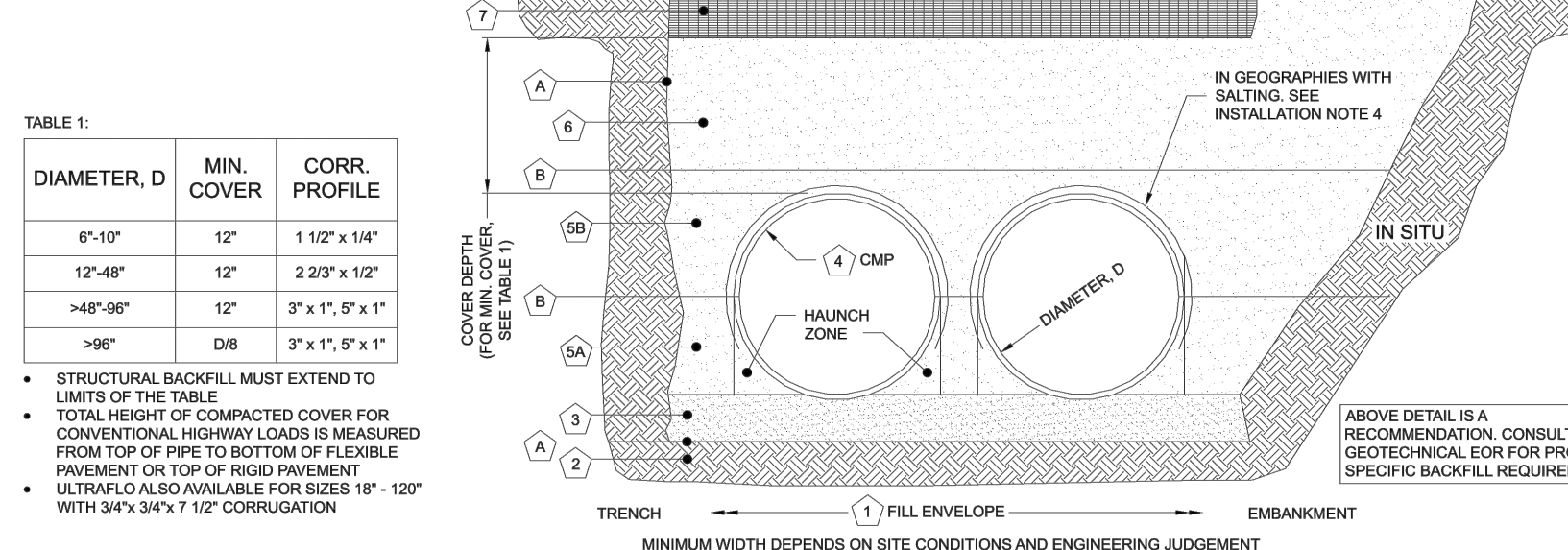


TABLE 2: SOLID STANDARD

CMP DETENTION AND CMP DRAINAGE STANDARD BACKFILL SPECIFICATIONS

MATERIAL LOCATION LAYERS	MATERIAL SPECIFICATION	DESCRIPTION
1 FILL ENVELOPE WIDTH	PER ENGINEER OF RECORD	MINIMUM TRENCH WIDTH MUST ALLOW ROOM FOR PROPER COMPACTION OF THE SUGGESTED MINIMUM TRENCH WIDTH, OR EOR RECOMMENDATION. PIPE < 12", D + 16" PIPE > 12", 1.5D + 12"
2 FOUNDATION	AASHTO M 28.52 OR PER ENGINEER OF RECORD	PRIOR TO PLACING THE BEDDING, THE FOUNDATION MUST BE CONSTRUCTED TO A UNIFORM AND STABLE GRADE. IN THE EVENT THAT UNSUITABLE FOUNDATION MATERIALS ARE ENCOUNTERED DURING EXCAVATION, THEY SHALL BE REMOVED AND FOUNDATION BROUGHT BACK TO GRADE WITH A FILL.
3 BEDDING	AASHTO M 43, 3, 387, 4, 467, 5, 56, 57 (APPROVED REGIONAL EQUIVALENTS INCLUDE CA-7)	ENGINEER OF RECORD TO DETERMINE IF BEDDING IS REQUIRED. PIPE MAY BE PLACED ON THE TRENCH BOTTOM OF A RELATIVELY LOOSE, NATIVE SUITABLE WELL GRADED GRANULAR MATERIAL THAT IS ROUGHLY SHAPED TO FIT THE BOTTOM OF THE PIPE, 2" MIN DEPTH. THE BEDDING MATERIAL MAY BE SUITABLE FOUNDATION SOILS CONFORMING TO AASHTO SOIL CLASSIFICATIONS A1, A2, OR A3 WITH MAXIMUM PARTICLE SIZE OF 3" PER AASHTO 28.5.1
4 CRITICAL BACKFILL	AASHTO M 145: A-1, A-2, A-3	CORRUGATED METAL PIPE
5A BACKFILL	AASHTO M 145: A-1, A-2, A-3	HAUNCH ZONE MATERIAL SHALL BE HAND SHOVELED OR SHOVEL SLICED INTO PLACE TO ALLOW FOR PROPER COMPACTION WITHOUT SOFT SPOTS. BACKFILL SHALL BE PLACED IN P 4" LOOSE LIFTS AND COMPACTED TO 90% STANDARD PROCTOR PER AASHTO T 99. BACKFILL SHALL BE PLACED SUCH THAT THERE IS NO MORE THAN A THREE LIFT (24") DIFFERENTIAL BETWEEN ANY OF THE PIPES AT ANY TIME DURING THE BACKFILL PROCESS. THE BACKFILL SHOULD BE ADVANCED ALONG THE LENGTH OF THE SYSTEM TO AVOID DIFFERENTIAL LOADING.
6 COVER MATERIAL	UP TO MIN. COVER - SEE 5A AND 5B ABOVE ABOVE MIN. COVER - PER ENGINEER OF RECORD	COVER MATERIAL MAY INCLUDE NON-BITUMINOUS, GRANULAR ROAD BASE MATERIAL WITHIN MIN COVER LIMITS
7 RIDID OR FLEXIBLE PAVEMENT (IF APPLICABLE)	PER ENGINEER OF RECORD	FLEXIBLE PAVEMENT SHOULD NOT BE COUNTED AS PART OF THE FILL HEIGHT OVER THE CMP. FINAL BACKFILL MATERIAL SELECTION AND COMPACTION REQUIREMENTS SHALL FOLLOW THE PROJECT PLANS AND SPECIFICATIONS PER THE ENGINEER OF RECORD.
8 OPTIONAL SIDE GEOTEXTILE BETWEEN LAYERS	NONE	GEOTEXTILE LAYER IS RECOMMENDED ON SIDES OF EXCAVATION TO PREVENT SOIL MIGRATION.
	NONE	IF SOIL TYPES DIFFER AT ANY POINT ABOVE PIPE INVERT, A GEOTEXTILE LAYER IS RECOMMENDED TO BE PLACED BETWEEN THE LAYERS TO PREVENT SOIL MIGRATION.

- NOTES:**
- FOR MULTIPLE BARREL INSTALLATIONS, THE RECOMMENDED STANDARD SPACING BETWEEN PARALLEL PIPE RUNS SHALL BE THE PIPE DIAMETER / 2 BUT NO LESS THAN 12" FOR DIAMETERS < 72". FOR 72" AND LARGER DIAMETERS, THE MINIMUM SPACING IS 30". CONTACT YOUR CONTECH REPRESENTATIVE FOR NONSTANDARD SPACING.
 - APPROVED REGIONAL EQUIVALENTS FOR SECTION 5A INCLUDE CA-7, CDDOT #67, MIDOT 26, 34G, OR 21AA STONE OR GRAVEL, #5, #67, MIDOT #4, 2G, 3G, 34G.

MANUFACTURER RECOMMENDED BACKFILL

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CMP DETENTION INSTALLATION GUIDE

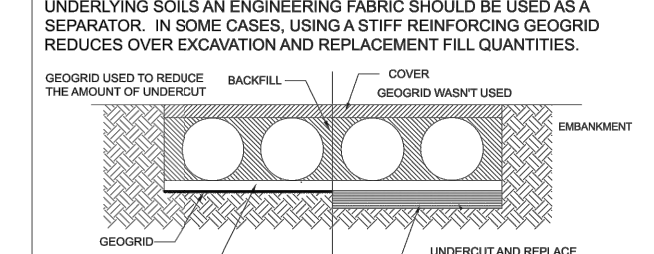
PROPER INSTALLATION OF A FLEXIBLE UNDERGROUND DETENTION SYSTEM WILL ENSURE LONG-TERM PERFORMANCE. THE CONFIGURATION OF THESE SYSTEMS OFTEN REQUIRES SPECIAL CONSTRUCTION PRACTICES THAT DIFFER FROM CONVENTIONAL FLEXIBLE PIPE CONSTRUCTION. CONTECH ENGINEERED SOLUTIONS STRONGLY SUGGESTS SCHEDULING A PRE-CONSTRUCTION MEETING WITH YOUR LOCAL SALES ENGINEER TO DETERMINE IF ADDITIONAL MEASURES, NOT COVERED IN THIS GUIDE, ARE APPROPRIATE FOR YOUR SITE.

FOUNDATION

CONSTRUCT A FOUNDATION THAT CAN SUPPORT THE DESIGN LOADING APPLIED BY THE PIPE AND ADJACENT BACKFILL WEIGHTS AS WELL AS MAINTAIN ITS INTEGRITY DURING CONSTRUCTION.

IF SOFT OR UNSUITABLE SOILS ARE ENCOUNTERED, REMOVE THE POOR SOILS DOWN TO A SUITABLE DEPTH AND THEN BUILD UP TO THE APPROPRIATE ELEVATION WITH A COMPETENT BACKFILL MATERIAL. THE STRUCTURAL FILL MATERIAL GRADATION SHOULD NOT ALLOW THE MIGRATION OF FINES, WHICH CAN CAUSE SETTLEMENT OF THE DETENTION SYSTEM OR PAVEMENT ABOVE.

IF THE STRUCTURAL FILL MATERIAL IS NOT COMPATIBLE WITH THE UNDERLYING SOIL AN ENGINEERING FABRIC SHOULD BE USED AS A SEPARATOR. IN SOME CASES, USING A STIFF REINFORCING GEGRID REDUCES OVER EXCAVATION AND REPLACEMENT FILL QUANTITIES.

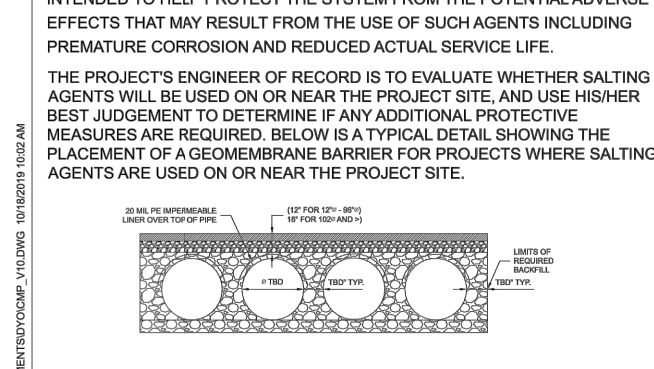


BACKFILL PLACEMENT

MATERIAL SHALL BE WORKED INTO THE PIPE HAUNCHES BY MEANS OF SHOVEL, SLING, ROOING, AIR TAMPER, VIBRATORY ROD, OR OTHER EFFECTIVE METHODS.

MINIMUM INFLUENCE LIMITED TO 1/2 PIPE DIAMETER.

IF AASHTO T99 PROCEDURES ARE DETERMINED INFEASIBLE BY THE GEOTECHNICAL ENGINEER OF RECORD, COMPACTION IS CONSIDERED ADEQUATE WHEN NO FURTHER YIELDING OF THE MATERIAL IS OBSERVED UNDER THE COMPACTOR, OR UNDER FOOT, AND THE GEOTECHNICAL ENGINEER OF RECORD (OR REPRESENTATIVE THEREOF) IS SATISFIED WITH THE LEVEL OF COMPACTION.

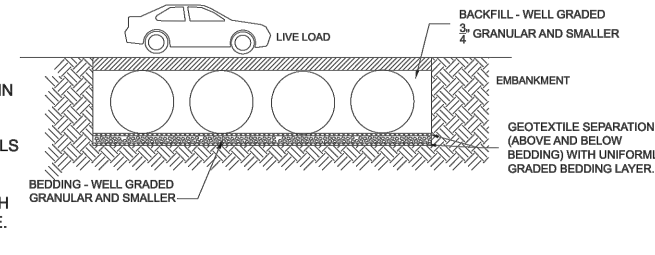


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IN-SITU TRENCH WALL

IF EXCAVATION IS REQUIRED, THE TRENCH WALL NEEDS TO BE CAPABLE OF SUPPORTING THE LOAD THAT THE PIPE BEHIND AS THE SYSTEM IS LOADED. IF SOILS ARE NOT CAPABLE OF SUPPORTING THESE LOADS, THE PIPE CAN DEFLECT. PERFORM A SIMPLE SOIL PRESSURE CHECK USING THE APPLIED LOADS TO DETERMINE THE LIMITS OF EXCAVATION BEYOND THE SPRING LINE OF THE OUTER MOST PIPES.

IN MOST CASES THE REQUIREMENTS FOR A SAFE WORK ENVIRONMENT AND PROPER BACKFILL PLACEMENT AND COMPACTION TAKE CARE OF THIS CONCERN.

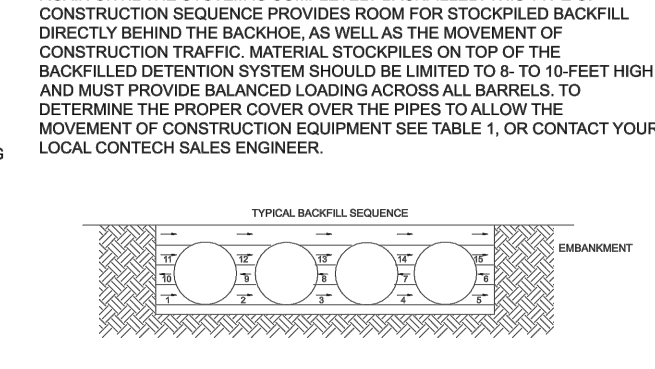


CONSTRUCTION LOADING

TYPICALLY THE MINIMUM COVER SPECIFIED FOR A PROJECT ASSUMES H-20 LIVE LOAD. BECAUSE CONSTRUCTION LOADS OFTEN EXCEED DESIGN LIVE LOADS, INCREASED TEMPORARY MINIMUM COVER REQUIREMENTS ARE NECESSARY SINCE CONSTRUCTION EQUIPMENT VARIES FROM JOB TO JOB. IT IS BEST TO ADDRESS EQUIPMENT SPECIFIC MINIMUM COVER REQUIREMENTS WITH YOUR LOCAL CONTECH SALES ENGINEER DURING YOUR PRE-CONSTRUCTION MEETING.

ADDITIONAL CONSIDERATIONS

BECAUSE MOST SYSTEMS ARE CONSTRUCTED BELOW-GRADE, RAINFALL CAN RAPIDLY FILL THE EXCAVATION, POTENTIALLY CAUSING FLOATATION AND MOVEMENT OF THE PREVIOUSLY PLACED PIPES. TO HELP MITIGATE POTENTIAL PROBLEMS, IT IS BEST TO START THE INSTALLATION AT THE DOWNSTREAM END WITH THE OUTLET ALREADY CONSTRUCTED TO ALLOW A ROUTE FOR THE WATER TO ESCAPE. TEMPORARY DIVERSION MEASURES MAY BE REQUIRED FOR HIGH FLOWS DUE TO THE RESTRICTED NATURE OF THE OUTLET PIPE.



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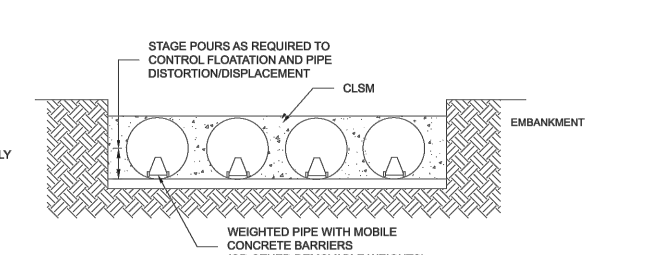
CMP DETENTION SYSTEM INSPECTION AND MAINTENANCE

UNDERGROUND STORMWATER DETENTION AND INFILTRATION SYSTEMS MUST BE INSPECTED AND MAINTAINED AT REGULAR INTERVALS FOR PURPOSES OF PERFORMANCE AND LONGEVITY.

INSPECTION

INSPECTION IS THE KEY TO EFFECTIVE MAINTENANCE OF CMP DETENTION SYSTEMS AND IS EASILY PERFORMED. CONTECH RECOMMENDS ONGOING, ANNUAL INSPECTIONS. SITES WITH HIGH TRASH LOAD OR SMALL OUTLET CONTROL ORIFICES MAY NEED MORE FREQUENT INSPECTIONS. THE RATE AT WHICH THE SYSTEM COLLECTS POLLUTANTS WILL DEPEND MORE ON SITE SPECIFIC ACTIVITIES RATHER THAN THE SIZE OR CONFIGURATION OF THE SYSTEM.

INSPECTIONS SHOULD BE PERFORMED MORE OFTEN IN EQUIPMENT TRUCK HEADS, IN CLIMATES WHERE SANDING AND/OR SALTING OPERATIONS TAKE PLACE, AND IN OTHER VARIOUS INSTANCES IN WHICH ONE WOULD EXPECT HIGHER ACCUMULATIONS OF SEDIMENT OR ARBANS/IN OPERATIVE CONDITIONS. A RECORD OF EACH INSPECTION IS TO BE MAINTAINED FOR THE LIFE OF THE SYSTEM.



MAINTENANCE

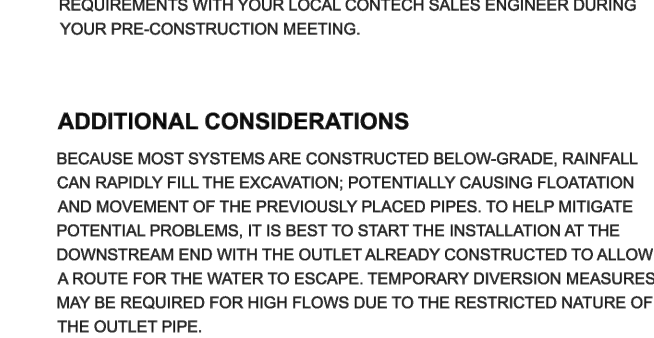
CMP DETENTION SYSTEMS SHOULD BE CLEANED WHEN AN INSPECTION REVEALS ACCUMULATED SEDIMENT OR TRASH IS CLOGGING THE DISCHARGE ORIFICE.

ACCUMULATED SEDIMENT AND TRASH CAN TYPICALLY BE EVALUATED THROUGH THE MANHOLE OVER THE OUTLET ORIFICE. IF MAINTENANCE IS NOT PERFORMED AS RECOMMENDED, SEDIMENT AND TRASH MAY ACCUMULATE IN FRONT OF THE OUTLET ORIFICE. MANHOLE COVERS SHOULD BE SECURELY SEATED FOLLOWING CLEANING ACTIVITIES. CONTECH SUGGESTS THAT ALL SYSTEMS BE DESIGNED WITH AN ACCESS/INSPECTION MANHOLE SITUATED AT OR NEAR THE INLET AND THE OUTLET ORIFICE. SHOULD IT BE NECESSARY TO GET INSIDE THE SYSTEM TO PERFORM MAINTENANCE ACTIVITIES, ALL APPROPRIATE PRECAUTIONS REGARDING CONFINED SPACE ENTRY AND OSHA REGULATIONS SHOULD BE FOLLOWED.

ANNUAL INSPECTIONS ARE BEST PRACTICE FOR ALL UNDERGROUND SYSTEMS. DURING THIS INSPECTION, IF EVIDENCE OF SALT/ICE-INGESTING AGENTS IS OBSERVED WITHIN THE SYSTEM, IT IS BEST PRACTICE FOR THE SYSTEM TO BE RINSED, INCLUDING ABOVE THE SPRING LINE SOON AFTER THE SPRING THAW AS PART OF THE MAINTENANCE PROGRAM FOR THE SYSTEM.

MAINTAINING AN UNDERGROUND DETENTION OR INFILTRATION SYSTEM IS EASIEST WHEN THERE IS NO FLOW ENTERING THE SYSTEM. FOR THIS REASON, IT IS A GOOD IDEA TO SCHEDULE THE EFFLUENT DURING DRY WEATHER.

THE FOREGOING INSPECTION AND MAINTENANCE EFFORTS HELP ENSURE UNDERGROUND PIPE SYSTEMS USED FOR STORMWATER STORAGE CONTINUE TO FUNCTION AS INTENDED BY IDENTIFYING RECOMMENDED REGULAR INSPECTION AND MAINTENANCE PRACTICES. INSPECTION AND MAINTENANCE RELATED TO THE STRUCTURAL INTEGRITY OF THE PIPE OR THE SOUNDNESS OF PIPE JOINT CONNECTIONS IS BEYOND THE SCOPE OF THIS GUIDE.



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CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

REVISIONS	DESCRIPTION

DATE	DATE

ALEXANDRIA PROJECT NO.:	110104122
DATE OF PLAN ISSUANCE:	N/A
CONSULTANT PROJECT ID.:	N/A
DESIGNED BY:	4/5/24
DRAWN BY:	4/5/24
CHECKED BY:	4/5/24
APPROVED BY:	4/5/24

WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

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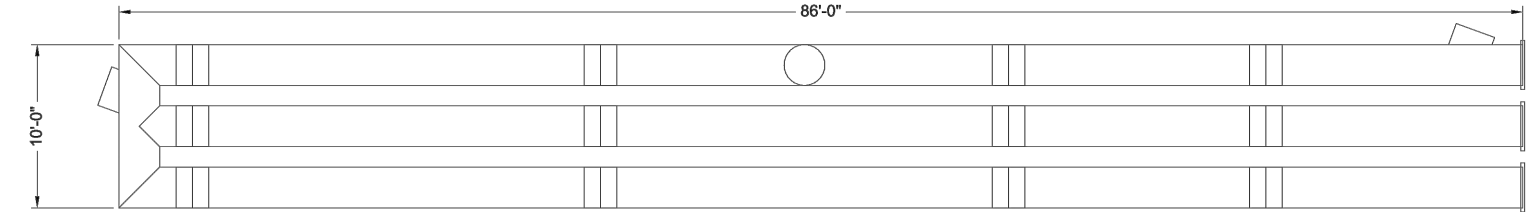
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 C-003E
 SCALE NTS

PROJECT SUMMARY

- CALCULATION DETAILS**
 • LOADING = HS20HS25
 • APPROX. LINEAR FOOTAGE = 261 LF
- STORAGE SUMMARY**
 • STORAGE VOLUME REQUIRED = 1,270 CF
 • PIPE STORAGE VOLUME = 1,270 CF
 • BACKFILL STORAGE VOLUME = 0 CF
 • TOTAL STORAGE PROVIDED = 1,309 CF

- PIPE DETAILS**
 • DIAMETER = 30"
 • CORRUGATION = 22x12
 • GAGE = 16
 • COATING = AL72
 • WALL TYPE = SOLID
 • BARREL SPACING = 1'

- BACKFILL DETAILS**
 • WIDTH AT ENDS = 12"
 • ABOVE PIPE = 0"
 • WIDTH AT SIDES = 12"
 • BELOW PIPE = 0"



NOTES

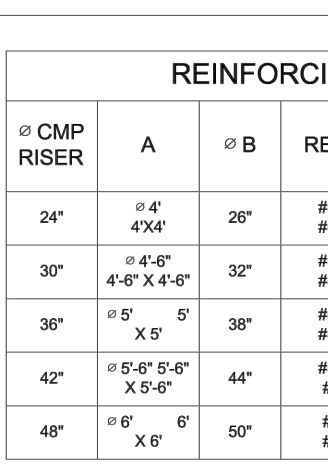
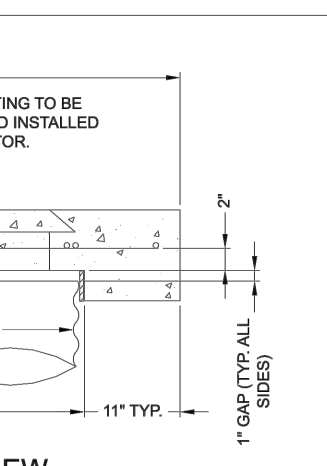
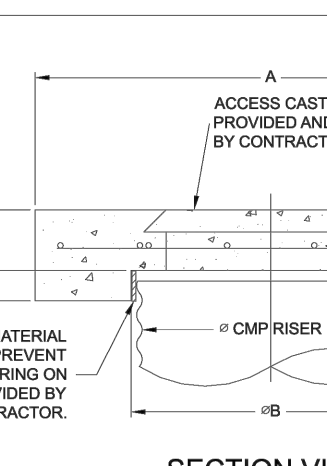
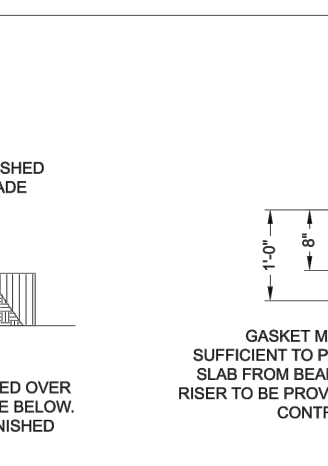
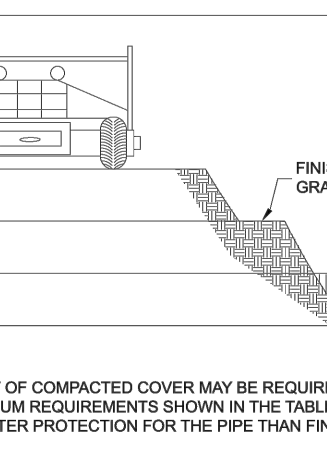
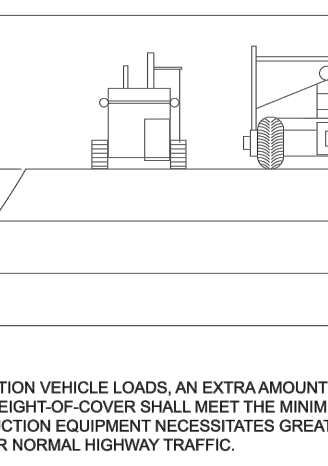
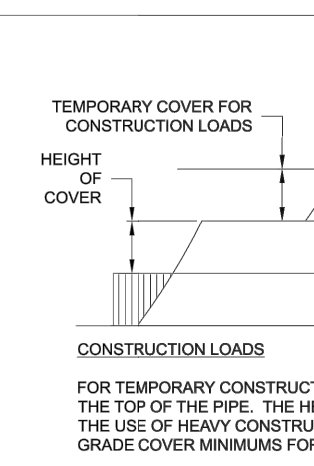
- ALL RISER AND STUB DIMENSIONS ARE TO CENTERLINE. ALL ELEVATIONS, DIMENSIONS, AND LOCATIONS OF RISERS AND INLETS, SHALL BE VERIFIED BY THE ENGINEER OF RECORD PRIOR TO RELEASING FOR FABRICATION.
- ALL FITTINGS AND REINFORCEMENT COMPLY WITH ASTM A998.
- ALL RISERS AND STUBS ARE 2 1/2" x 1/2" CORRUGATION AND 18 GAGE UNLESS OTHERWISE NOTED.
- RISERS TO BE FIELD TRIMMED TO GRADE.
- QUANTITY OF PIPE SHOWN DOES NOT PROVIDE EXTRA PIPE FOR CONNECTING THE SYSTEM TO EXISTING PIPE OR DRAINAGE STRUCTURES. OUR SYSTEM AS DETAILED PROVIDES NOMINAL INLET AND/OR OUTLET PIPE STUB FOR CONNECTION TO EXISTING DRAINAGE FACILITIES. IF ADDITIONAL PIPE IS NEEDED IT IS THE RESPONSIBILITY OF THE CONTRACTOR.
- BAND TYPE TO BE DETERMINED UPON FINAL DESIGN.
- THE PROJECT SUMMARY IS REFLECTIVE OF THE DYODS DESIGN, QUANTITIES ARE APPROX. AND SHOULD BE VERIFIED UPON FINAL DESIGN AND APPROVAL. FOR EXAMPLE, TOTAL EXCAVATION DOES NOT CONSIDER ALL VARIABLES SUCH AS SHORING AND ONLY ACCOUNTS FOR MATERIAL WITHIN THE ESTIMATED EXCAVATION FOOTPRINT.
- THESE DRAWINGS ARE FOR CONCEPTUAL PURPOSES AND DO NOT REFLECT ANY LOCAL PREFERENCES OR REGULATIONS. PLEASE CONTACT YOUR LOCAL CONTECH REP FOR MODIFICATIONS.

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REINFORCING TABLE

Ø CMP RISER	A	B	REINFORCING	**BEARING PRESSURE (PSF)
24"	4'-4"	26"	#5 @ 12" OCEW #5 @ 12" OCEW	2,410 1,780
30"	4'-4"	30"	#5 @ 12" OCEW #5 @ 12" OCEW	2,120 1,530
36"	5'-0"	36"	#5 @ 10" OCEW #5 @ 10" OCEW	1,890 1,390
42"	5'-6"	44"	#5 @ 10" OCEW #5 @ 9" OCEW	1,720 1,210
48"	6'-0"	50"	#5 @ 9" OCEW #5 @ 9" OCEW	1,600 1,100

** ASSUMED SOIL BEARING CAPACITY

CONSTRUCTION LOADING DIAGRAM
 SCALE: N.T.S.

PIPE SPAN, INCHES	AXLE LOADS (kips)		
	18-50	50-75	75-110 / 110-150
MINIMUM COVER (FT)			
12-42	2.0	2.5	3.0
48-72	3.0	3.0	3.5
78-102	3.0	3.5	4.0
126-144	3.5	4.0	4.5

MINIMUM COVER MAY VARY DEPENDING ON LOCAL CONDITIONS. THE CONTRACTOR MUST PROVIDE THE ADDITIONAL COVER REQUIRED TO AVOID DAMAGE TO THE PIPE. MINIMUM COVER IS MEASURED FROM THE TOP OF THE PIPE TO THE TOP OF THE MAINTAINED CONSTRUCTION ROADWAY SURFACE.

SCOPE
 THIS SPECIFICATION COVERS THE MANUFACTURE AND INSTALLATION OF THE DESIGNED DETENTION SYSTEM DETAILED IN THE PROJECT PLANS.

MATERIAL
 THE MATERIAL SHALL CONFORM TO THE APPLICABLE REQUIREMENTS LISTED BELOW:

ALUMINIZED TYPE 2 STEEL COILS SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M-274 OR ASTM A-92.

THE POLYMER COATED STEEL COILS SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M-248 OR ASTM A-742.

THE ALUMINUM COILS SHALL CONFORM TO THE APPLICABLE REQUIREMENTS OF AASHTO M-187 OR ASTM B-744.

CONSTRUCTION LOADS
 CONSTRUCTION LOADS MAY BE HIGHER THAN FINAL LOADS. FOLLOW THE MANUFACTURER'S OR NCSA GUIDELINES.

NOTE
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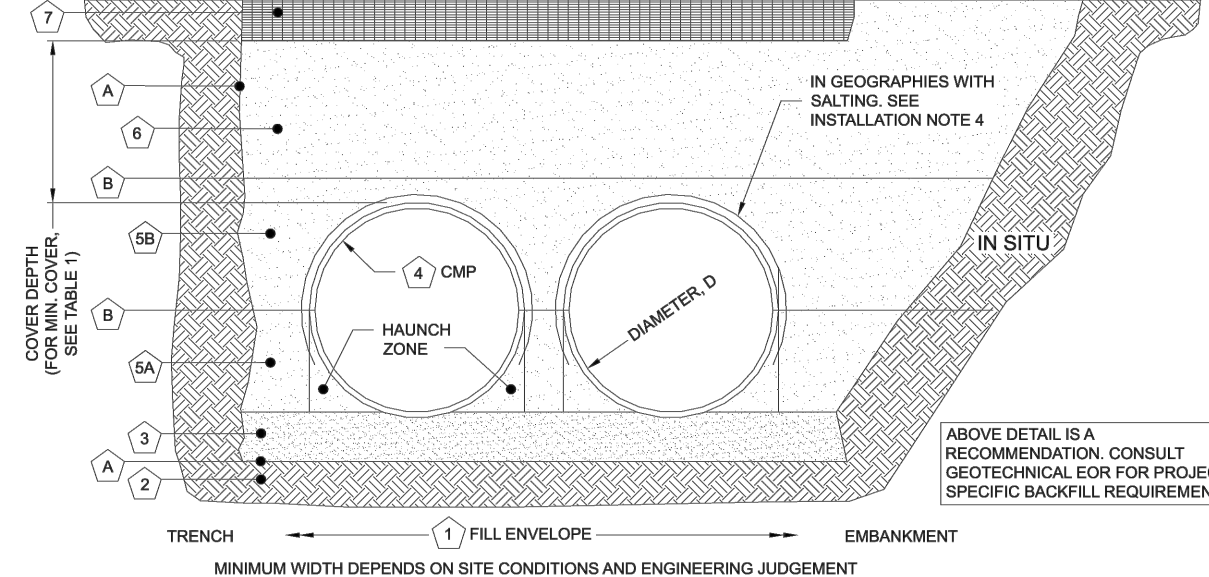
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TABLE 1:

DIAMETER, D	MIN. COVER	CORR. PROFILE
6"-10"	12"	1 1/2" x 1/4"
12"-48"	12"	2 2/3" x 1/2"
>48"-96"	12"	3" x 1", 5" x 1"
>96"	D/8	3" x 1", 5" x 1"

- STRUCTURAL BACKFILL MUST EXTEND TO LIMITS OF THE TABLE.
- TOTAL HEIGHT OF COMPACTED COVER FOR CONVENTIONAL HIGHWAY LOADS IS MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR TOP OF RIGID PAVEMENT.
- ULTRAFLO ALSO AVAILABLE FOR SIZES 18" - 120" WITH 3/4" x 3/4" x 1/2" CORRUGATION.



INSTALLATION NOTES

- WHEN PLACING THE FIRST LIFTS OF BACKFILL IT IS IMPORTANT TO MAKE SURE THAT THE BACKFILL IS PROPERLY COMPACTED UNDER AND AROUND THE PIPE HAUNCHES.
- OTHER ALTERNATE BACKFILL MATERIAL MAY BE ALLOWED DEPENDING ON SITE SPECIFIC CONDITIONS, AS APPROVED BY SITE ENGINEER.
- BACKFILL USING CONTROLLED LOW-STRENGTH MATERIAL (CLSM "FLASH FILL" OR "LOWBALL FILL") MAY BE USED WHEN THE SPACING BETWEEN THE PIPES WILL NOT ALLOW FOR PLACEMENT AND ADEQUATE COMPACTION OF THE BACKFILL. CONTACT CONTECH FOR FURTHER EVALUATION.
- IF SALTING AGENTS FOR SNOW AND ICE REMOVAL ARE USED ON OR NEAR THE PROJECT, A GEOMEMBRANE BARRIER IS RECOMMENDED OVER THE UPPER HALF OF THE PIPE. THE GEOMEMBRANE LINER IS INTENDED TO HELP PROTECT THE SYSTEM FROM THE POTENTIAL ADVERSE EFFECTS THAT MAY RESULT FROM A CHANGE IN THE SURROUNDING ENVIRONMENT OVER A PERIOD OF TIME. PLEASE REFER TO THE CORRUGATED METAL PIPE DETENTION DESIGN GUIDE FOR ADDITIONAL INFORMATION.

TABLE 2: SOLID STANDARD

CMP DETENTION AND CMP DRAINAGE STANDARD BACKFILL SPECIFICATIONS

MATERIAL LOCATION	MATERIAL SPECIFICATION	DESCRIPTION
FILL ENVELOPE WIDTH	PER ENGINEER OF RECORD	MINIMUM TRENCH WIDTH MUST ALLOW ROOM FOR PROPER COMPACTION OF HAUNCH MATERIALS UNDER THE PIPE. THE SUGGESTED MINIMUM TRENCH WIDTH, OR EOR RECOMMENDATION: PIPE ≤ 12" : D = 16" PIPE > 12" : 1.5D + 12"
FOUNDATION	AASHTO 26.5.2 OR PER ENGINEER OF RECORD	PRIOR TO PLACING THE BEDDING, THE FOUNDATION MUST BE CONSTRUCTED TO A UNIFORM AND STABLE GRADE. IN THE EVENT THAT UNSUITABLE FOUNDATION MATERIALS ARE ENCOUNTERED DURING EXCAVATION, THEY SHALL BE REMOVED AND FOUNDATION BROUGHT BACK TO GRADE WITH A FILL MATERIAL APPROVED BY THE ENGINEER OF RECORD.
BEDDING	AASHTO M 43, 3, 357, 4, 487, 6, 56, 57 (APPROVED REGIONAL EQUIVALENTS INCLUDE CA-7)	ENGINEER OF RECORD TO DETERMINE IF BEDDING IS REQUIRED. PIPE MAY BE PLACED ON THE TRENCH BOTTOM OF A RELATIVELY LOOSE, NATIVE SUITABLE WELL GRADED GRANULAR MATERIAL THAT IS ROUGHLY SHAPED TO FIT THE BOTTOM OF THE PIPE, 2" MIN DEPTH. THE BEDDING MATERIAL MAY BE SUITABLE FOUNDATION SOILS CONFORMING TO AASHTO SOIL CLASSIFICATIONS A1, A2, OR A3 WITH MAXIMUM PARTICLE SIZE OF 3" (PER AASHTO 26.3.8.1 AND 12.4.1-3).
CRITICAL BACKFILL	AASHTO M 145: A-1, A-2, A-3	CORRUGATED METAL PIPE
BACKFILL	AASHTO M 145: A-1, A-2, A-3	HAUNCH ZONE MATERIAL SHALL BE HAND SHOVELED OR SHOVEL SLICED INTO PLACE TO ALLOW FOR PROPER COMPACTION WITHOUT SOFT SPOTS. BACKFILL SHALL BE PLACED IN 4" H-LOOSE LIFTS AND COMPACTED TO 90% STANDARD PROCTOR PER AASHTO 109. BACKFILL SHALL BE PLACED SUCH THAT THERE IS NO MORE THAN A THREE LIFT (2") DIFFERENTIAL BETWEEN ANY OF THE PIPES AT ANY TIME DURING THE BACKFILL PROCESS. THE BACKFILL SHOULD BE ADVANCED ALONG THE LENGTH OF THE SYSTEM TO AVOID DIFFERENTIAL LOADING. WELL GRADED GRANULAR MATERIAL WHICH MAY CONTAIN SMALL AMOUNTS OF SILT OR CLAY AND MAXIMUM PARTICLE SIZE OF 3" (PER AASHTO 26.3.8.1 AND 12.4.1-3).
COVER MATERIAL	UP TO MIN. COVER - SEE SA AND SB ABOVE ABOVE MIN. COVER - PER ENGINEER OF RECORD	COVER MATERIAL MAY INCLUDE NON-BITUMINOUS, GRANULAR ROAD BASE MATERIAL WITHIN MIN COVER LIMITS
RIGID OR FLEXIBLE PAVEMENT (IF APPLICABLE)	PER ENGINEER OF RECORD	FLEXIBLE PAVEMENT SHOULD NOT BE COUNTED AS PART OF THE FILL HEIGHT OVER THE CMP FINAL BACKFILL MATERIAL. SELECTION AND COMPACTION REQUIREMENTS SHALL FOLLOW THE PROJECT PLANS AND SPECIFICATIONS PER THE ENGINEER OF RECORD.
OPTIONAL SIDE GEOTEXTILE	NONE	GEOTEXTILE LAYER IS RECOMMENDED ON SIDES OF EXCAVATION TO PREVENT SOIL MIGRATION.
OPTIONAL GEOTEXTILE BETWEEN LAYERS	NONE	IF SOIL TYPES DIFFER AT ANY POINT ABOVE PIPE INVENTION, A GEOTEXTILE LAYER IS RECOMMENDED TO BE PLACED BETWEEN THE LAYERS TO PREVENT SOIL MIGRATION.

- NOTES:**
- FOR MULTIPLE BARREL INSTALLATIONS, THE RECOMMENDED STANDARD SPACING BETWEEN PARALLEL PIPE RUNS SHALL BE THE PIPE DIAMETER 2 BUT NO LESS THAN 12" FOR DIAMETERS < 72". FOR 72" AND LARGER DIAMETERS, THE MINIMUM SPACING IS 30". CONTACT YOUR CONTECH REPRESENTATIVE FOR NONSTANDARD SPACING.
 - APPROVED REGIONAL EQUIVALENTS FOR SECTION SA INCLUDE CA-7, CDOOT #97, MIDOT 20, 34G, OR 21AA STONE OR GRAVEL; #8; #57; MIDOT 6A, 20, 30, 34G.

MANUFACTURER RECOMMENDED BACKFILL

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 CMP DETENTION SYSTEMS
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 Alexandria, VA
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 DESIGNED: DYO
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CMP DETENTION INSTALLATION GUIDE

PROPER INSTALLATION OF A FLEXIBLE UNDERGROUND DETENTION SYSTEM WILL ENSURE LONG-TERM PERFORMANCE. THE CONFIGURATION OF THESE SYSTEMS OFTEN REQUIRES SPECIAL CONSTRUCTION PRACTICES THAT DIFFER FROM CONVENTIONAL FLEXIBLE PIPE CONSTRUCTION. CONTECH ENGINEERED SOLUTIONS STRONGLY SUGGESTS SCHEDULING A PRE-CONSTRUCTION MEETING WITH YOUR LOCAL SALES ENGINEER TO DETERMINE IF ADDITIONAL MEASURES, NOT COVERED IN THIS GUIDE, ARE APPROPRIATE FOR YOUR SITE.

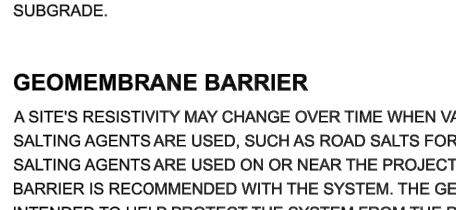
FOUNDATION

CONSTRUCT A FOUNDATION THAT CAN SUPPORT THE DESIGN LOADING APPLIED BY THE PIPE AND ADJACENT BACKFILL WEIGHT AS WELL AS MAINTAIN ITS INTEGRITY DURING CONSTRUCTION. IF SOFT OR UNSUITABLE SOILS ARE ENCOUNTERED, REMOVE THE POOR SOILS DOWN TO A SUITABLE DEPTH AND THEN BUILD UP TO THE APPROPRIATE ELEVATION WITH A COMPETENT BACKFILL MATERIAL. THE STRUCTURAL FILL MATERIAL GRADATION SHOULD NOT ALLOW THE MIGRATION OF FINES, WHICH CAN CAUSE SETTLEMENT OF THE DETENTION SYSTEM OR PAVEMENT ABOVE. IF THE STRUCTURAL FILL MATERIAL IS NOT COMPATIBLE WITH THE UNDERLYING SOILS AN ENGINEERING FABRIC SHOULD BE USED AS A SEPARATOR. IN SOME CASES, USING A STIFF REINFORCING GEORGEO REDUCES OVER EXCAVATION AND REPLACEMENT FILL QUANTITIES.

GEOMEMBRANE BARRIER

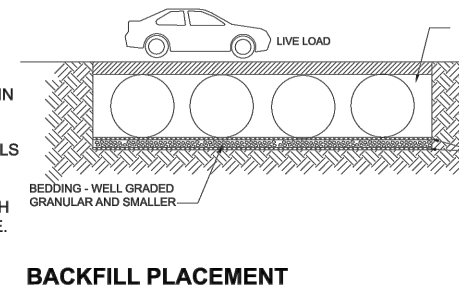
A SITE'S RESISTIVITY MAY CHANGE OVER TIME WHEN VARIOUS TYPES OF SALTING AGENTS ARE USED, SUCH AS ROAD SALTS FOR DEICING AGENTS. IF SALTING AGENTS ARE USED ON OR NEAR THE PROJECT SITE, A GEOMEMBRANE BARRIER IS RECOMMENDED WITH THE SYSTEM. THE GEOMEMBRANE LINER IS INTENDED TO HELP PROTECT THE SYSTEM FROM THE POTENTIAL ADVERSE EFFECTS THAT MAY RESULT FROM THE USE OF SUCH AGENTS INCLUDING PREMATURE CORROSION AND REDUCED ACTUAL SERVICE LIFE. THE PROJECTS ENGINEER OF RECORD IS TO EVALUATE WHETHER SALTING AGENTS WILL BE USED ON OR NEAR THE PROJECT SITE, AND USE HIS/HER BEST JUDGEMENT TO DETERMINE IF ANY ADDITIONAL PROTECTIVE MEASURES ARE REQUIRED BELOW A TYPICAL DETAIL SHOWING THE PLACEMENT OF A GEOMEMBRANE BARRIER FOR PROJECTS WHERE SALTING AGENTS ARE USED ON OR NEAR THE PROJECT SITE.

MANHOLE CAP DETAIL



IN-SITU TRENCH WALL

IF EXCAVATION IS REQUIRED, THE TRENCH WALL NEEDS TO BE CAPABLE OF SUPPORTING THE LOAD THAT THE PIPE BEARS AS THE SYSTEM IS LOADED. IF SOILS ARE NOT CAPABLE OF SUPPORTING THESE LOADS, THE PIPE CAN DEFLECT. PERFORM A SIMPLE SOIL PRESSURE CHECK USING THE APPLIED LOADS TO DETERMINE THE LIMITS OF EXCAVATION BEYOND THE SPRING LINE OF THE OUTER MOST PIPES. IN MOST CASES THE REQUIREMENTS FOR A SAFE WORK ENVIRONMENT AND PROPER BACKFILL PLACEMENT AND COMPACTION TAKE CARE OF THIS CONCERN.

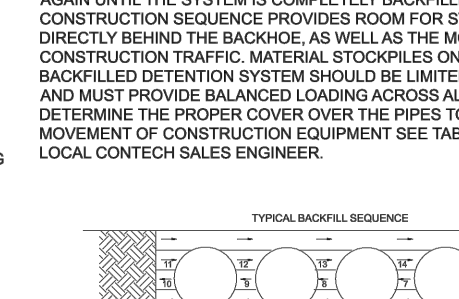


BACKFILL PLACEMENT

MATERIAL SHALL BE WORKED INTO THE PIPE HAUNCHES BY MEANS OF SHOVEL-SLICING, ROODING, AIR TAMPER, VIBRATORY ROD, OR OTHER EFFECTIVE METHODS. MATERIAL SHALL BE LIMITED TO 8" TO 10" HEIGHT H-LOOSE LIFTS. IF AASHTO T99 PROCEDURES ARE DETERMINED INFEASIBLE BY THE GEOTECHNICAL ENGINEER OF RECORD, COMPACTION IS CONSIDERED APPROPRIATE WHEN NO FURTHER YIELDING OF THE MATERIAL IS OBSERVED UNDER THE COMPACTOR, OR UNDER FOOT AND THE GEOTECHNICAL ENGINEER OF RECORD (OR REPRESENTATIVE THEREOF) IS SATISFIED WITH THE LEVEL OF COMPACTION.

ADDITIONAL CONSIDERATIONS

BECAUSE MOST SYSTEMS ARE CONSTRUCTED BELOW-GRADE, RAINFALL CAN RAPIDLY FILL THE EXCAVATION, POTENTIALLY CAUSING FLOATATION AND MOVEMENT OF THE PREVIOUSLY PLACED PIPES. TO HELP MITIGATE POTENTIAL PROBLEMS, IT IS BEST TO START THE INSTALLATION AT THE DOWNSTREAM END OF THE SYSTEM. TEMPORARY DIVERSION MEASURES MAY BE REQUIRED FOR HIGH FLOWS DUE TO THE RESTRICTED NATURE OF THE OUTLET PIPE.



CONSTRUCTION LOADING

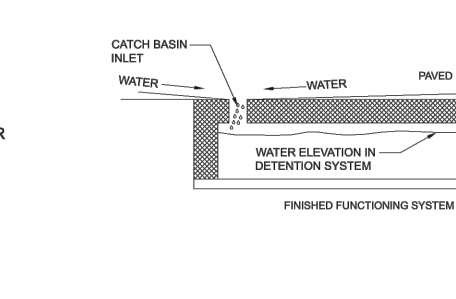
TYPICALLY THE MINIMUM COVER SPECIFIED FOR A PROJECT ASSUMES H-20 LIVE LOAD. BECAUSE CONSTRUCTION LOADS OFTEN EXCEED DESIGN LIVE LOADS, INCREASED TEMPORARY MINIMUM COVER REQUIREMENTS ARE NECESSARY. SINCE CONSTRUCTION EQUIPMENT VARIES FROM JOB TO JOB, IT IS BEST TO ADDRESS EQUIPMENT SPECIFIC MINIMUM COVER REQUIREMENTS WITH YOUR LOCAL CONTECH SALES ENGINEER DURING YOUR PRE-CONSTRUCTION MEETING.

CONSTRUCTION LOADING

TYPICALLY THE MINIMUM COVER SPECIFIED FOR A PROJECT ASSUMES H-20 LIVE LOAD. BECAUSE CONSTRUCTION LOADS OFTEN EXCEED DESIGN LIVE LOADS, INCREASED TEMPORARY MINIMUM COVER REQUIREMENTS ARE NECESSARY. SINCE CONSTRUCTION EQUIPMENT VARIES FROM JOB TO JOB, IT IS BEST TO ADDRESS EQUIPMENT SPECIFIC MINIMUM COVER REQUIREMENTS WITH YOUR LOCAL CONTECH SALES ENGINEER DURING YOUR PRE-CONSTRUCTION MEETING.

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CMP DETENTION SYSTEM INSPECTION AND MAINTENANCE

UNDERGROUND STORMWATER DETENTION AND INFILTRATION SYSTEMS MUST BE INSPECTED AND MAINTAINED AT REGULAR INTERVALS FOR PURPOSES OF PERFORMANCE AND LONGEVITY.

INSPECTION

INSPECTION IS THE KEY TO EFFECTIVE MAINTENANCE OF CMP DETENTION SYSTEMS AND IS EASILY PERFORMED. CONTECH RECOMMENDS ONGOING ANNUAL INSPECTIONS. SITES WITH HIGH TRASH LOAD OR SMALL OUTLET CONTROL ORIFICES MAY NEED MORE FREQUENT INSPECTIONS. THE RATE AT WHICH THE SYSTEM COLLECTS POLLUTANTS WILL DEPEND MORE ON SITE SPECIFIC ACTIVITIES RATHER THAN THE SIZE OR CONFIGURATION OF THE SYSTEM.

INSPECTIONS SHOULD BE PERFORMED MORE OFTEN IN EQUIPMENT WASHDOWN AREAS, IN CLIMATES WHERE SANDING AND/OR SALTING OPERATIONS TAKE PLACE, AND IN OTHER VARIOUS INSTANCES IN WHICH ONE WOULD EXPECT HIGHER ACCUMULATIONS OF SEDIMENT OR ABRASIVE/ CORROSIVE CONDITIONS. A RECORD OF EACH INSPECTION IS TO BE MAINTAINED FOR THE LIFE OF THE SYSTEM.

MAINTENANCE

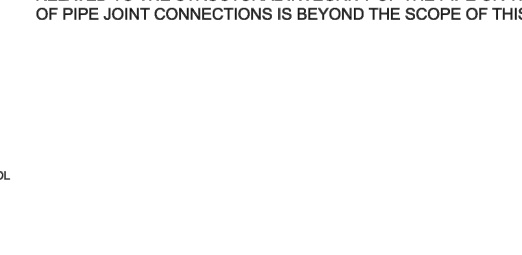
CMP DETENTION SYSTEMS SHOULD BE CLEANED WHEN AN INSPECTION REVEALS ACCUMULATED SEDIMENT OR TRASH IS CLOGGING THE DISCHARGE ORIFICE.

ACCUMULATED SEDIMENT AND TRASH CAN TYPICALLY BE EVACUATED THROUGH THE MANHOLE OVER THE OUTLET ORIFICE. IF MAINTENANCE IS NOT PERFORMED AS RECOMMENDED, SEDIMENT AND TRASH MAY ACCUMULATE IN FRONT OF THE OUTLET ORIFICE. MANHOLE COVERS SHOULD BE SECURELY SEATED FOLLOWING CLEANING ACTIVITIES. CONTECH SUGGESTS THAT ALL SYSTEMS BE DESIGNED WITH AN ACCESSIBLE MANHOLE SITUATED AT OR NEAR THE INLET AND THE OUTLET ORIFICE. SHOULD IT BE NECESSARY TO GET INSIDE THE SYSTEM TO PERFORM MAINTENANCE ACTIVITIES, ALL APPROPRIATE PRECAUTIONS REGARDING CONFINED SPACE ENTRY AND OSHA REGULATIONS SHOULD BE FOLLOWED.

ANNUAL INSPECTIONS ARE BEST PRACTICE FOR ALL UNDERGROUND SYSTEMS. IF EVIDENCE OF SOIL COLLAPSE OR OTHER DAMAGE IS OBSERVED WITHIN THE SYSTEM, IT IS BEST PRACTICE FOR THE SYSTEM TO BE RINSED, INCLUDING ABOVE THE SPRING LINE SOON AFTER THE SPRING THAW AS PART OF THE MAINTENANCE PROGRAM FOR THE SYSTEM.

MAINTAINING AN UNDERGROUND DETENTION OR INFILTRATION SYSTEM IS EASIEST WHEN THERE IS NO FLOW ENTERING THE SYSTEM. FOR THIS REASON, IT IS A GOOD IDEA TO SCHEDULE THE CLEANOUT DURING DRY WEATHER.

THE FOREGOING INSPECTION AND MAINTENANCE EFFORTS HELP ENSURE UNDERGROUND PIPE SYSTEMS USED FOR STORMWATER STORAGE CONTINUE TO FUNCTION AS INTENDED BY DESIGN. IT IS RECOMMENDED REGULAR INSPECTION AND MAINTENANCE PRACTICES. INSPECTION AND MAINTENANCE RELATED TO THE STRUCTURAL INTEGRITY OF THE PIPE OR THE SOUNDNESS OF PIPE JOINT CONNECTIONS IS BEYOND THE SCOPE OF THIS GUIDE.



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 CMP DETENTION SYSTEMS
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DYO55064 West End Transitway
 Outfall J
 Alexandria, VA
 DETENTION SYSTEM

PROJECT NO.: 39900
 DESIGNED: DYO
 CHECKED: DYO
 SHEET NO.: 1

CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

90% DESIGN PHASE

WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

DETAILS

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REVISIONS

NO.	DATE	DESCRIPTION
1		

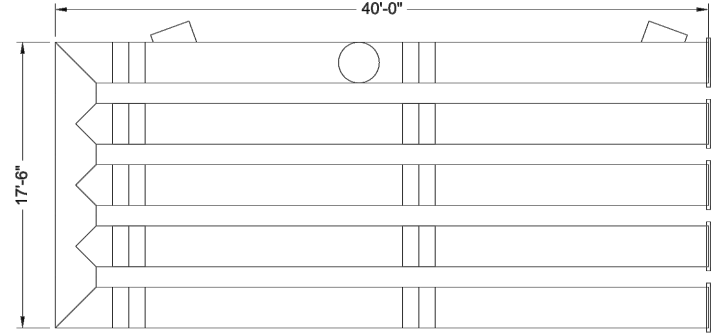
ALEXANDRIA PROJECT NO.: 110104122
 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: VALUE DATE: 4/5/24
 DRAWN BY: VALUE DATE: 4/5/24
 CHECKED BY: VALUE DATE: 4/5/24
 APPROVED BY: VALUE DATE: 4/5/24

PROJECT SUMMARY

- CALCULATION DETAILS**
- LOADING = HS20HS25
 - APPROX. LINEAR FOOTAGE = 205 LF
- STORAGE SUMMARY**
- STORAGE VOLUME REQUIRED = 1,003 CF
 - PIPE STORAGE VOLUME = 1,008 CF
 - BACKFILL STORAGE VOLUME = 0 CF
 - TOTAL STORAGE PROVIDED = 1,079 CF

- PIPE DETAILS**
- DIAMETER = 30"
 - CORRUIGATION = 2.23x12
 - GAGE = 16
 - COATING = ALT2
 - WALL TYPE = SOLID
 - BARREL SPACING = 15"

- BACKFILL DETAILS**
- WIDTH AT ENDS = 12"
 - ABOVE PIPE = 4"
 - WIDTH AT SIDES = 12"
 - BELOW PIPE = 0"



ASSEMBLY
SCALE: 1" = 10'

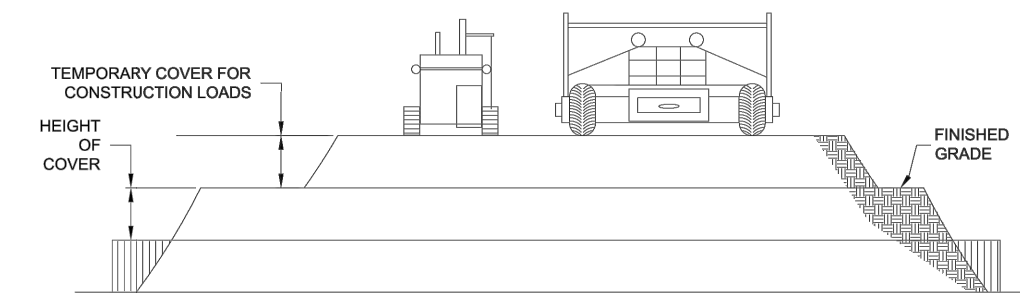
- NOTES**
- ALL RISER AND STUB DIMENSIONS ARE TO CENTERLINE. ALL ELEVATIONS, DIMENSIONS, AND LOCATIONS OF RISERS AND INLETS, SHALL BE VERIFIED BY THE ENGINEER OF RECORD PRIOR TO RELEASING FOR FABRICATION.
 - ALL FITTINGS AND REINFORCEMENT COMPLY WITH ASTM A815.
 - ALL RISERS AND STUBS ARE 2 3/4" x 1/2" CORRUGATION AND 16 GAGE UNLESS OTHERWISE NOTED.
 - RISERS TO BE FIELD TRIMMED TO GRADE.
 - QUANTITY OF PIPE SHOWN DOES NOT PROVIDE EXTRA PIPE FOR CONNECTING THE SYSTEM TO EXISTING PIPE OR DRAINAGE STRUCTURES. OUR SYSTEM AS DETAIL PROVIDES NOMINAL INLET AND/OR OUTLET PIPE STUBS FOR CONNECTION TO EXISTING DRAINAGE FACILITIES. IF ADDITIONAL PIPE IS NEEDED IT IS THE RESPONSIBILITY OF THE CONTRACTOR.
 - GRID TYPE TO BE DETERMINED UPON FINAL DESIGN.
 - THE PROJECT SUMMARY IS REFLECTIVE OF THE DYODS DESIGN. QUANTITIES ARE APPROX. AND SHOULD BE VERIFIED UPON FINAL DESIGN AND APPROVAL. FOR EXAMPLE, TOTAL EXCAVATION DOES NOT CONSIDER ALL VARIABLES SUCH AS SHORING AND ONLY ACCOUNTS FOR MATERIAL WITHIN THE ESTIMATED EXCAVATION FOOTPRINT.
 - THESE DRAWINGS ARE FOR CONCEPTUAL PURPOSES AND DO NOT REFLECT ANY LOCAL PREFERENCES OR REGULATIONS. PLEASE CONTACT YOUR LOCAL CONTECH REP FOR MODIFICATIONS.

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Alexandria, VA
DETENTION SYSTEM

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FOR TEMPORARY CONSTRUCTION VEHICLE LOADS, AN EXTRA AMOUNT OF COMPACTED COVER MAY BE REQUIRED OVER THE TOP OF THE PIPE. THE HEIGHT-OF-COVER SHALL MEET THE MINIMUM REQUIREMENTS SHOWN IN THE TABLE BELOW. THE USE OF HEAVY CONSTRUCTION EQUIPMENT NECESSITATES GREATER PROTECTION FOR THE PIPE THAN FINISHED GRADE COVER MINIMUMS FOR NORMAL HIGHWAY TRAFFIC.

PIPE SIZE, INCHES	AXLE LOADS (kips)			
	18-30	50-75	75-110	110-150
	MINIMUM COVER (FT)			
18-24	2.0	2.5	3.0	3.0
48-72	3.0	3.0	3.5	4.0
78-120	3.0	3.5	4.0	4.0
126-144	3.5	4.0	4.5	4.5

CONSTRUCTION LOADING DIAGRAM
SCALE: N.T.S.

SPECIFICATION FOR DESIGNED DETENTION SYSTEM

SCOPE: THIS SPECIFICATION COVERS THE MANUFACTURE AND INSTALLATION OF THE DESIGNED DETENTION SYSTEM DETAILED IN THE PROJECT PLANS.

MATERIAL: THE MATERIAL SHALL CONFORM TO THE APPLICABLE REQUIREMENTS LISTED BELOW.

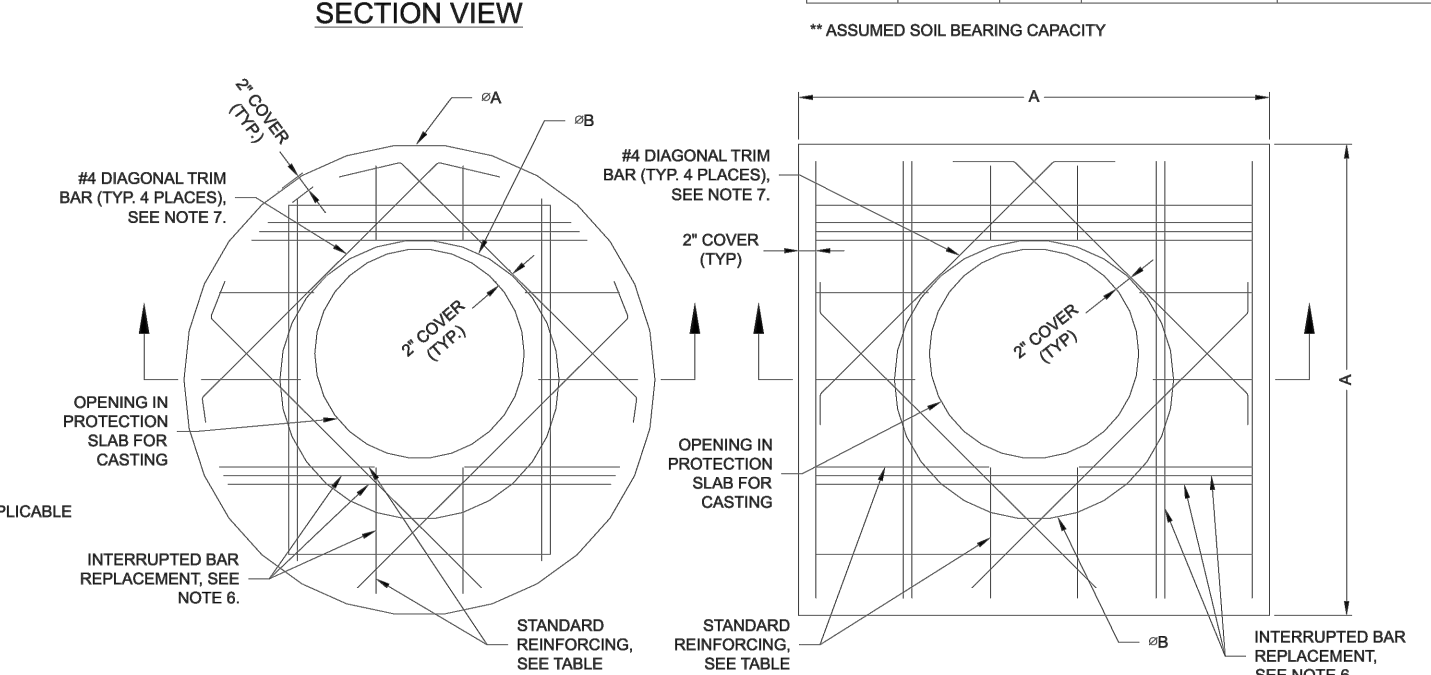
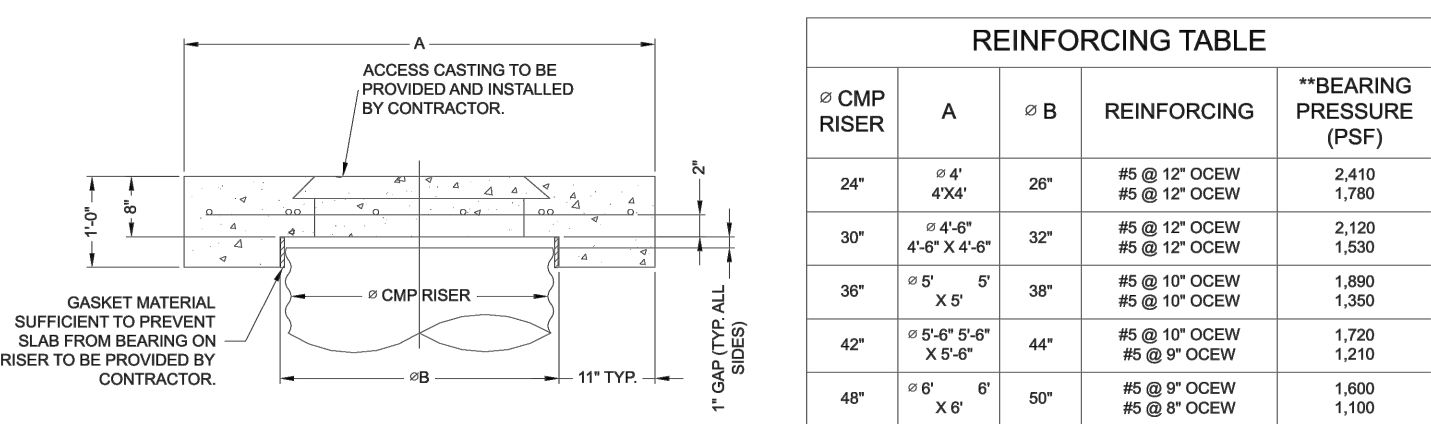
- ALUMINIZED TYPE 2: AASHTO M-36 OR ASTM A-760
- GALVANIZED: AASHTO M-36 OR ASTM A-760
- ALUMINIZED TYPE 2 STEEL COILS SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M-274 OR ASTM A-92.
- ALUMINUM: AASHTO M-198 OR ASTM B-745
- APPLICABLE HANDLING AND ASSEMBLY SHALL BE IN ACCORDANCE WITH NCSPP (NATIONAL CORRUGATED STEEL ASSOCIATION) FOR ALUMINIZED TYPE 2, GALVANIZED OR POLYMER COATED STEEL. SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS FOR ALUMINUM PIPE.
- REQUIREMENTS SHALL BE IN ACCORDANCE WITH AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, SECTION 26, DIVISION II OR ASTM A-789 (FOR ALUMINIZED TYPE 2, GALVANIZED OR POLYMER COATED STEEL) OR ASTM B-789 (FOR ALUMINUM PIPE) AND IN CONFORMANCE WITH THE PROJECT PLANS AND SPECIFICATIONS. IF THERE ARE ANY INCONSISTENCIES OR CONFLICTS THE CONTRACTOR SHOULD DISCUSS AND RESOLVE WITH THE SITE ENGINEER.
- IT IS ALWAYS THE RESPONSIBILITY OF THE CONTRACTOR TO FOLLOW OSHA GUIDELINES FOR SAFE PRACTICES.

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- REINFORCING TABLE**
- | Ø CMP RISER | A | B | REINFORCING | BEARING PRESSURE (PSF) |
|-------------|-------------|-----|--------------------------------|------------------------|
| 24" | 4'-4" 4'x4" | 28" | #5 @ 12" OCEW
#5 @ 12" OCEW | 2,410
1,780 |
| 30" | 4'-4" 4'-6" | 32" | #5 @ 12" OCEW
#5 @ 12" OCEW | 2,120
1,520 |
| 36" | 5'-0" 5'-0" | 36" | #5 @ 10" OCEW
#5 @ 10" OCEW | 1,850
1,350 |
| 42" | 5'-6" 5'-6" | 44" | #5 @ 10" OCEW
#5 @ 9" OCEW | 1,720
1,210 |
| 48" | 6'-0" 6'-0" | 50" | #5 @ 9" OCEW
#5 @ 8" OCEW | 1,600
1,100 |
- ** ASSUMED SOIL BEARING CAPACITY

MANHOLE CAP DETAIL
SCALE: N.T.S.

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TABLE 1:

DIAMETER, D	MIN. COVER	CORR. PROFILE
6"-10"	12"	1 1/2" x 14"
12"-48"	12"	2 2/3" x 12"
>48"-96"	12"	3" x 1", 8" x 1"
>96"	D/8	3" x 1", 8" x 1"

- STRUCTURAL BACKFILL MUST EXTEND TO LIMITS OF THE TABLE.
- TOTAL HEIGHT OF COMPACTED COVER FOR CONVENTIONAL HIGHWAY LOADS IS MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR TOP OF RIGID PAVEMENT.
- ULTRAFLO ALSO AVAILABLE FOR SIZES 18" - 120" WITH 3/8" x 3/4" x 1/2" CORRUGATION.

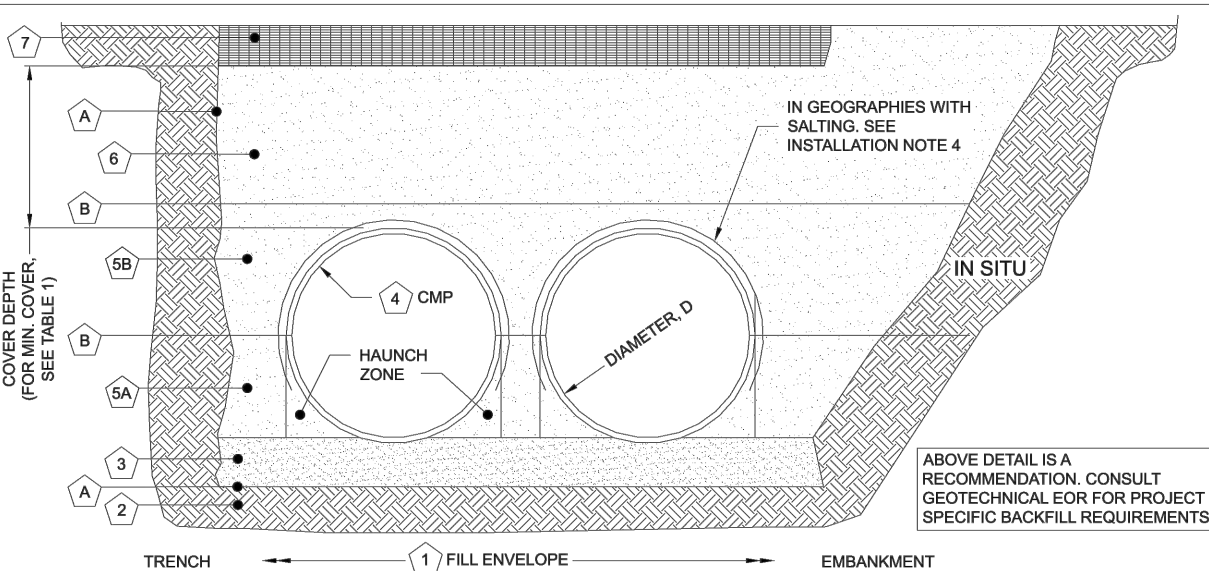


TABLE 2: SOLID STANDARD

MATERIAL LOCATION	MATERIAL SPECIFICATION	DESCRIPTION
FILL ENVELOPE WIDTH	PER ENGINEER OF RECORD	MINIMUM TRENCH WIDTH MUST ALLOW ROOM FOR PROPER COMPACTION OF HAUNCH MATERIALS UNDER THE PIPE. THE SUGGESTED MINIMUM TRENCH WIDTH, OR EOR RECOMMENDATION: PIPE < 12" : 1' - 1 1/2' PIPE > 12" : 1.5D + 12"
FOUNDATION	AASHTO 26.5.2 OR PER ENGINEER OF RECORD	PRIOR TO PLACING THE BEDDING, THE FOUNDATION MUST BE CONSTRUCTED TO A UNIFORM AND STABLE GRADE. IN THE EVENT THAT UNSUITABLE FOUNDATION MATERIALS ARE ENCOUNTERED DURING EXCAVATION, THEY SHALL BE REMOVED AND FOUNDATION BROUGHT BACK TO GRADE WITH A FILL MATERIAL APPROVED BY THE ENGINEER OF RECORD.
BEDDING	AASHTO M 43: 3, 357, 4, 467, 5, 56, 57 (APPROVED REGIONAL EQUIVALENTS INCLUDE CA-7)	ENGINEER OF RECORD TO DETERMINE IF BEDDING IS REQUIRED. PIPE MAY BE PLACED ON THE TRENCH BOTTOM OF A RELATIVELY LOOSE, NATIVE SUITABLE WELL GRADED GRANULAR MATERIAL THAT IS RIGIDLY SHAPED TO FIT THE BOTTOM OF THE PIPE. 2" MINIMUM DEPTH. THE BEDDING MATERIAL MAY BE SUITABLE FOUNDATION SOLS CONFORMING TO AASHTO SOIL CLASSIFICATIONS A1, A2, OR A3 WITH MAXIMUM PARTICLE SIZE OF 3" PER AASHTO 26.3.8.1 AND 12.4.1-3.
CRITICAL BACKFILL	AASHTO M 145: A-1, A-2, A-3	CORRUGATED METAL PIPE HAUNCH ZONE MATERIAL SHALL BE HAND SHOVELED OR SHOVEL SLICED INTO PLACE TO ALLOW FOR PROPER COMPACTION WITHOUT SOFT SPOTS. BACKFILL SHALL BE PLACED IN 6" - LOOSE LIFTS AND COMPACTED TO 90% STANDARD PROCTOR PER AASHTO T 99. BACKFILL SHALL BE PLACED SUCH THAT THERE IS NO MORE THAN A THREE (3) INCH DIFFERENTIAL BETWEEN ANY OF THE PIPES AT ANY TIME DURING THE BACKFILL PROCESS. THE BACKFILL SHOULD BE ADVANCED ALONG THE LENGTH OF THE SYSTEM TO AVOID DIFFERENTIAL LOADING. GRADED GRANULAR MATERIAL WHICH MAY CONTAIN SMALL AMOUNTS OF SILT OR CLAY AND MAXIMUM PARTICLE SIZE OF 3" PER AASHTO 26.3.8.1 AND 12.4.1-3.
BACKFILL	AASHTO M 145: A-1, A-2, A-3	
COVER MATERIAL	UP TO MIN. COVER - SEE SA AND SB ABOVE ABOVE MIN. COVER - PER ENGINEER OF RECORD	COVER MATERIAL MAY INCLUDE NON-BITUMINOUS, GRANULAR ROAD BASE MATERIAL WITHIN MIN COVER LIMITS
RIGID OR FLEXIBLE PAVEMENT (IF APPLICABLE)	PER ENGINEER OF RECORD	FLEXIBLE PAVEMENT SHOULD NOT BE COUNTED AS PART OF THE FILL HEIGHT OVER THE CMP. FINAL BACKFILL MATERIAL SELECTION AND COMPACTION REQUIREMENTS SHALL FOLLOW THE PROJECT PLANS AND SPECIFICATIONS PER THE ENGINEER OF RECORD.
OPTIONAL SOIL GEOTEXTILE	NONE	GEOTEXTILE LAYER IS RECOMMENDED ON SIDES OF EXCAVATION TO PREVENT SOIL MIGRATION.
OPTIONAL GEOTEXTILE BETWEEN LAYERS	NONE	IF SOIL TYPES DIFFER AT ANY POINT ABOVE PIPE INVERT, A GEOTEXTILE LAYER IS RECOMMENDED TO BE PLACED BETWEEN THE LAYERS TO PREVENT SOIL MIGRATION.

- NOTES:**
- FOR MULTIPLE BARREL INSTALLATIONS, THE RECOMMENDED STANDARD SPACING BETWEEN PARALLEL PIPE RUNS SHALL BE THE PIPE DIAMETER 2" BUT NO LESS THAN 12" FOR DIAMETERS < 12". FOR 12" AND LARGER DIAMETERS, THE MINIMUM SPACING IS 36". CONTACT YOUR CONTECH REPRESENTATIVE FOR NONSTANDARD SPACING.
 - APPROVED REGIONAL EQUIVALENTS FOR SECTION SA INCLUDE CA-7, CDOT #07, MDT #20, 34G, OR 21A STONE OR GRAVEL, #5, #5, MDT# 6A, 2G, 3G, 34G.

MANUFACTURER RECOMMENDED BACKFILL
NOT TO SCALE

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CONTECH CMP DETENTION SYSTEMS
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Alexandria, VA
DETENTION SYSTEM

PROJECT NO.	REV. NO.	DATE
38880	0007	7/30/2024
DESIGNED BY	DRAWN BY	
CHECKED BY	APPROVED BY	
SHEET NO.		1

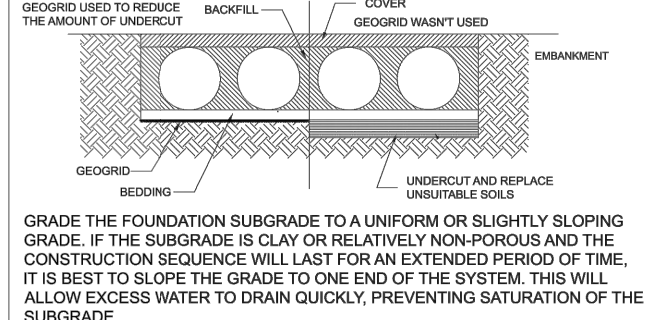
CMP DETENTION INSTALLATION GUIDE

PROPER INSTALLATION OF A FLEXIBLE UNDERGROUND DETENTION SYSTEM WILL ENSURE LONG-TERM PERFORMANCE. THE CONFIGURATION OF THESE SYSTEMS OFTEN REQUIRES SPECIAL CONSTRUCTION PRACTICES THAT DIFFER FROM CONVENTIONAL FLEXIBLE PIPE CONSTRUCTION. CONTECH ENGINEERED SOLUTIONS STRONGLY SUGGESTS SCHEDULING A PRE-CONSTRUCTION MEETING WITH YOUR LOCAL SALES ENGINEER TO DETERMINE IF ADDITIONAL MEASURES, NOT COVERED IN THIS GUIDE, ARE APPROPRIATE FOR YOUR SITE.

FOUNDATION

CONSTRUCT A FOUNDATION THAT CAN SUPPORT THE DESIGN LOADING APPLIED BY THE PIPE AND ADJACENT BACKFILL WEIGHT AS WELL AS MAINTAIN ITS INTEGRITY DURING CONSTRUCTION.

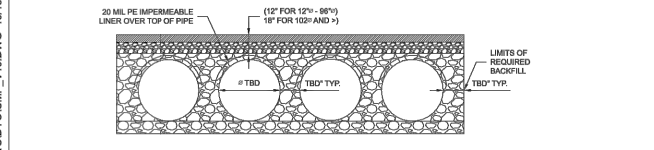
IF SOFT OR UNSUITABLE SOILS ARE ENCOUNTERED, REMOVE THE POOR SOILS DOWN TO A SUITABLE DEPTH AND THEN BUILD UP TO THE APPROPRIATE ELEVATION WITH A COMPACTED BACKFILL MATERIAL. THE STRUCTURAL FILL MATERIAL GRADATION SHOULD NOT ALLOW THE MIGRATION OF FINES, WHICH CAN CAUSE SETTLEMENT OF THE DETENTION SYSTEM OR RUPTURE ABOVE. IF THE STRUCTURAL FILL MATERIAL IS NOT COMPATIBLE WITH THE UNDERLYING SOILS AN ENGINEERING FABRIC SHOULD BE USED AS A SEPARATOR. IN SOME CASES, USING A STIFF REINFORCING GEOTEXTILE REDUCES OVER EXCAVATION AND REPLACEMENT FILL QUANTITIES.



GEOMEMBRANE BARRIER

A SITE'S RESISTIVITY MAY CHANGE OVER TIME WHEN VARIOUS TYPES OF SALTING AGENTS ARE USED, SUCH AS ROAD SALTS FOR DEICING AGENTS. IF SALTING AGENTS ARE USED ON OR NEAR THE PROJECT SITE, A GEOMEMBRANE BARRIER IS RECOMMENDED WITH THE SYSTEM. THE GEOMEMBRANE LINER IS INTENDED TO HELP PROTECT THE SYSTEM FROM THE POTENTIAL ADVERSE EFFECTS THAT MAY RESULT FROM THE USE OF SUCH AGENTS INCLUDING PREMATURE CORROSION AND REDUCED SERVICE LIFE.

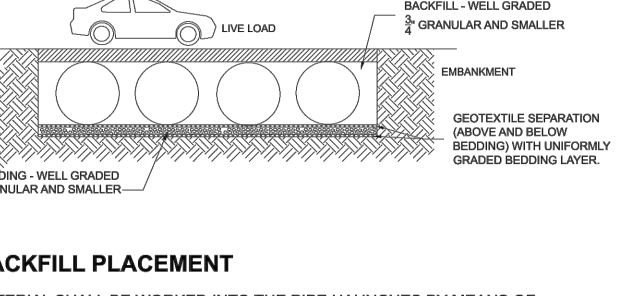
THE PROJECT'S ENGINEER OF RECORD IS TO EVALUATE WHETHER SALTING AGENTS WILL BE USED ON OR NEAR THE PROJECT SITE, AND USE HIS/HER BEST JUDGMENT TO DETERMINE IF ANY ADDITIONAL PROTECTIVE MEASURES ARE REQUIRED. BELOW IS A TYPICAL DETAIL SHOWING THE PLACEMENT OF A GEOMEMBRANE BARRIER FOR SITES WHERE SALTING AGENTS ARE USED ON OR NEAR THE PROJECT SITE.



IN-SITU TRENCH WALL

IF EXCAVATION IS REQUIRED, THE TRENCH WALL NEEDS TO BE CAPABLE OF SUPPORTING THE LOAD THAT THE PIPE SHEARS AS THE SYSTEM IS LOADED. IF SOILS ARE NOT CAPABLE OF SUPPORTING THESE LOADS, THE PIPE CAN DEFLECT PERFORM A SIMPLE SOIL PRESSURE CHECK USING THE APPLIED LOADS TO DETERMINE THE LIMITS OF EXCAVATION BEYOND THE SPRING LINE OF THE OUTER MOST PIPES.

IN MOST CASES THE REQUIREMENTS FOR A SAFE WORK ENVIRONMENT AND PROPER BACKFILL PLACEMENT AND COMPACTION TAKE CARE OF THIS CONCERN.



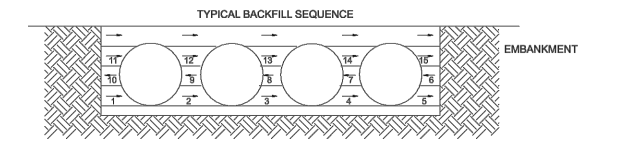
BACKFILL PLACEMENT

MATERIAL SHALL BE WORKED INTO THE PIPE HAUNCHES BY MEANS OF SHOVEL-SLICING, RIDDING, AIR TAMPER, VIBRATORY ROO, OR OTHER EFFECTIVE METHODS.

IF AASHTO T99 PROCEDURES ARE DETERMINED INFEASIBLE BY THE GEOTECHNICAL ENGINEER OF RECORD, COMPACTION IS CONSIDERED ADEQUATE WHEN NO FURTHER YIELDING OF THE MATERIAL IS OBSERVED UNDER THE COMPACTOR, OR UNDER FOOT, AND THE GEOTECHNICAL ENGINEER OF RECORD (OR REPRESENTATIVE THEREOF) IS SATISFIED WITH THE LEVEL OF COMPACTION.

ADDITIONAL CONSIDERATIONS

BECAUSE MOST SYSTEMS ARE CONSTRUCTED BELOW-GRADE, RAINFALL CAN RAVENLY FILL THE EXCAVATION, POTENTIALLY CAUSING FLOATION AND MOVEMENT OF THE PREVIOUSLY PLACED PIPES. TO HELP MITIGATE POTENTIAL PROBLEMS, IT IS BEST TO START THE INSTALLATION AT THE DOWNSTREAM END WITH THE OUTLET ALREADY CONSTRUCTED TO ALLOW A ROUTE FOR THE WATER TO ESCAPE. TEMPORARY DIVERSION MEASURES MAY BE REQUIRED FOR HIGH FLOWS DUE TO THE RESTRICTED NATURE OF THE OUTLET PIPE.



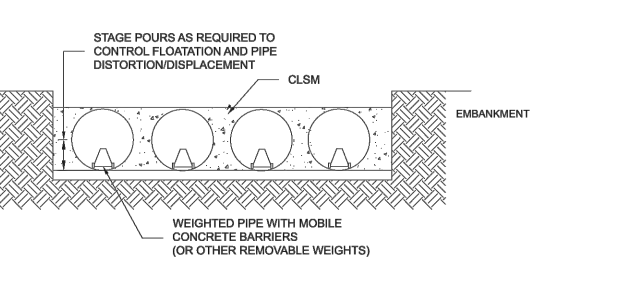
CMP DETENTION SYSTEM INSPECTION AND MAINTENANCE

UNDERGROUND STORMWATER DETENTION AND INFILTRATION SYSTEMS MUST BE INSPECTED AND MAINTAINED AT REGULAR INTERVALS FOR PURPOSES OF PERFORMANCE AND LONGEVITY.

INSPECTION

INSPECTION IS THE KEY TO EFFECTIVE MAINTENANCE OF CMP DETENTION SYSTEMS AND IS EASILY PERFORMED. CONTECH RECOMMENDS ONGOING, ANNUAL INSPECTIONS. SITES WITH HIGH TRASH LOAD OR SMALL OUTLET CONTROL ORIFICES MAY NEED MORE FREQUENT INSPECTIONS. THE RATE AT WHICH THE SYSTEM COLLECTS POLLUTANTS WILL DEPEND MORE ON SITE SPECIFIC ACTIVITIES RATHER THAN THE SIZE OR CONFIGURATION OF THE SYSTEM.

INSPECTIONS SHOULD BE PERFORMED MORE OFTEN IN EQUIPMENT WASHDOWN AREAS, IN CLIMATES WHERE SANDING AND/OR SALTING OPERATIONS TAKE PLACE, AND IN OTHER VARIOUS INSTANCES IN WHICH ONE WOULD EXPECT HIGHER ACCUMULATIONS OF SEDIMENT OR ABRASIVE/ CORROSIVE CONDITIONS. A RECORD OF EACH INSPECTION IS TO BE MAINTAINED FOR THE LIFE OF THE SYSTEM.



CONSTRUCTION LOADING

TYPICALLY, THE MINIMUM COVER SPECIFIED FOR A PROJECT ASSUMES H-20 LIVE LOAD. BECAUSE CONSTRUCTION LOADS OFTEN EXCEED DESIGN LIVE LOADS, INCREASED TEMPORARY MINIMUM COVER REQUIREMENTS ARE NECESSARY. SINCE CONSTRUCTION EQUIPMENT VARIES FROM JOB TO JOB, IT IS BEST TO ADDRESS EQUIPMENT SPECIFIC MINIMUM COVER REQUIREMENTS WITH YOUR LOCAL CONTECH SALES ENGINEER DURING YOUR PRE-CONSTRUCTION MEETING.

MAINTENANCE

CMP DETENTION SYSTEMS SHOULD BE CLEANED WHEN AN INSPECTION REVEALS ACCUMULATED SEDIMENT OR TRASH IS CLOGGING THE DISCHARGE ORIFICE.

ACCUMULATED SEDIMENT AND TRASH CAN TYPICALLY BE EVACUATED THROUGH THE MANHOLE OVER THE OUTLET ORIFICE. IF MAINTENANCE IS NOT PERFORMED AS RECOMMENDED, SEDIMENT AND TRASH MAY ACCUMULATE IN FRONT OF THE OUTLET ORIFICE. MANHOLE COVERS SHOULD BE SECURELY SEATED FOLLOWING CLEANING ACTIVITIES. CONTECH SUGGESTS THAT ALL SYSTEMS BE DESIGNED WITH AN ACCESS/INSPECTION MANHOLE SITUATED AT OR NEAR THE INLET AND THE OUTLET ORIFICE. SHOULD IT BE NECESSARY TO GET INSIDE THE SYSTEM TO PERFORM MAINTENANCE ACTIVITIES, ALL APPROPRIATE PRECAUTIONS REGARDING CONFINED SPACE ENTRY AND OSHA REGULATIONS SHOULD BE FOLLOWED.

ANNUAL INSPECTIONS ARE BEST PRACTICE FOR ALL UNDERGROUND SYSTEMS. DURING THIS INSPECTION, IF EVIDENCE OF SALTING/DE-ICING AGENTS IS OBSERVED WITHIN THE SYSTEM, IT IS BEST PRACTICE FOR THE SYSTEM TO BE RINSED, INCLUDING ABOVE THE SPRING LINE SOON AFTER THE SPRING THAW AS PART OF THE MAINTENANCE PROGRAM FOR THE SYSTEM.

MAINTAINING AN UNDERGROUND DETENTION OR INFILTRATION SYSTEM IS EASIEST WHEN THERE IS NO FLOW ENTERING THE SYSTEM. FOR THIS REASON, IT IS A GOOD IDEA TO SCHEDULE THE CLEANOUT DURING DRY WEATHER.

THE FOLLOWSING INSPECTION AND MAINTENANCE EFFORTS HELP ENSURE UNDERGROUND PIPE SYSTEMS USED FOR STORMWATER STORAGE CONTINUE TO FUNCTION AS INTENDED BY IDENTIFYING RECOMMENDED REGULAR INSPECTION AND MAINTENANCE PRACTICES. INSPECTION AND MAINTENANCE RELATED TO THE STRUCTURAL INTEGRITY OF THE PIPE OR THE SOUNDNESS OF PIPE JOINT CONNECTIONS IS BEYOND THE SCOPE OF THIS GUIDE.



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90% DESIGN PHASE

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DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

WEST END TRANSITWAY PHASE 1 IMPROVEMENTS

REVISIONS

NO.	DATE	DESCRIPTION
1	N/A	

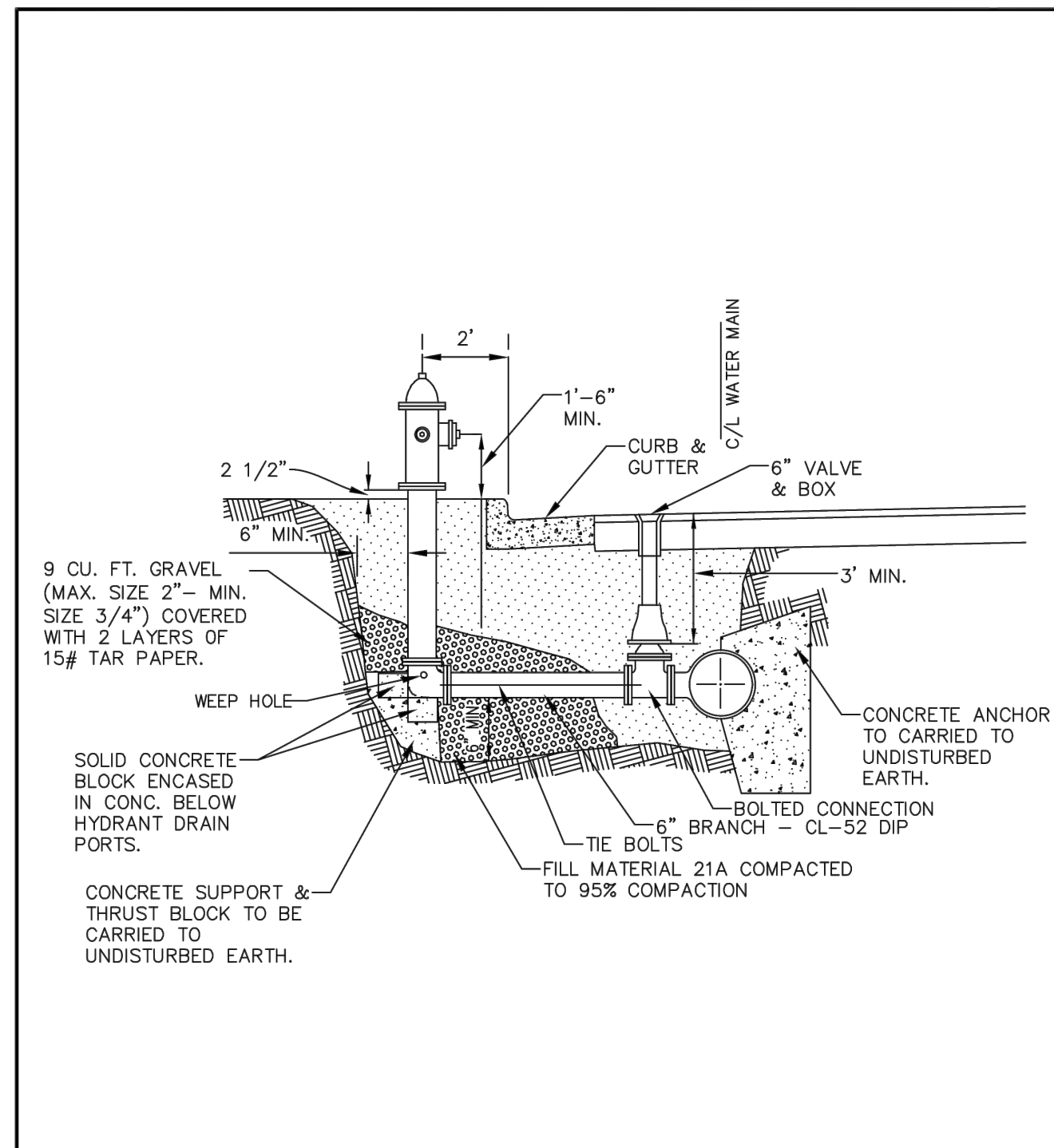
ALEXANDRIA PROJECT NO.: 1101.04122
DATE OF PLAN ISSUE: N/A
CONSULTANT PROJECT ID: N/A
DESIGNED BY: VALUE DATE: 4/5/24
DRAWN BY: VALUE DATE: 4/5/24
CHECKED BY: VALUE DATE: 4/5/24
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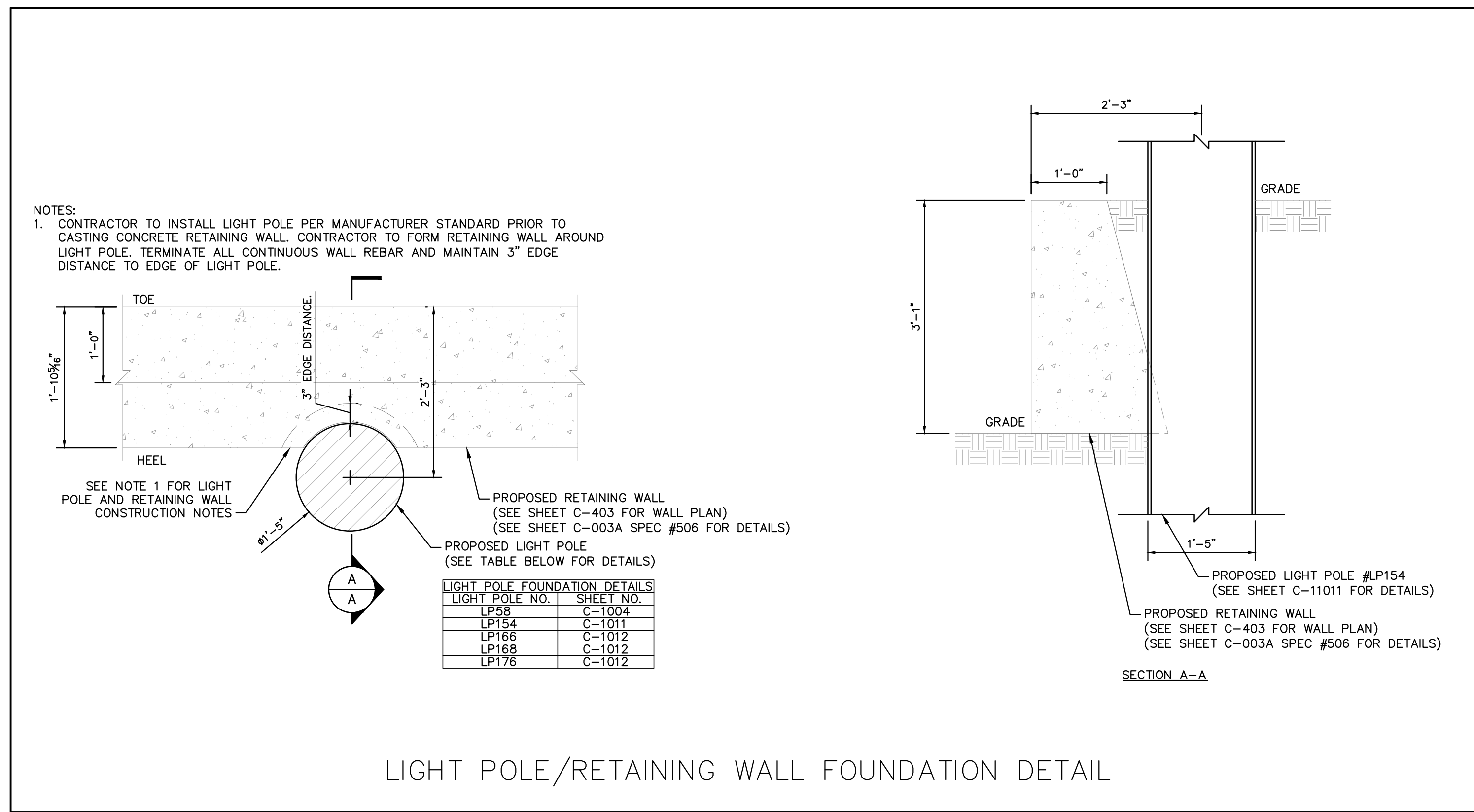
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FIRE HYDRANT INSTALLATION	
06/21/2021	REVISION DATE
DEPARTMENT OF TRANSPORTATION & ENVIRONMENTAL SERVICES ALEXANDRIA, VIRGINIA	CSFH-1 PAGE 18

- NOTES:
- FIRE HYDRANT: MUELLER CENTURION - CATALOG # A423 WITH 1 1/2 INCH PENTAGON OPERATING NUT; LEFT TURN TO OPEN TWO 2 1/2" HOSE NOZZLES AND ONE 4" HOSE NOZZLE.
 - VALVE: MUELLER GATE VALVE - CATALOG # A2380-20, WITH 6 INCH MECHANICAL JOINTS. 2 INCH SQUARE NUT, LEFT TURN TO OPEN. VALVES AND FITTINGS SHALL BE WRAPPED IN 10MIL OR THICKER POLYETHYLENE.
 - ALL FITTINGS SHALL BE DUCTILE IRON. ALL FITTINGS TO BE RESTRAINED.
 - LOCATIONS TO BE AS SHOWN ON PLANS. VARIANCE OF THE 2' MIN. FROM THE FACE OF THE CURB SHALL BE REVIEWED ON AN INDIVIDUAL BASIS BY THE TRANSPORTATION AND ENVIRONMENTAL SERVICES ENGINEER.
 - FIRE HYDRANTS TO BE INSTALLED AND TESTED IN ACCORDANCE WITH CURRENT VERSION OF AWWA M17 MANUAL.
 - VALVES AND SERVICE LINES ARE TO BE INSTALLED AND TESTED IN ACCORDANCE WITH THE CURRENT VERSION OF AWWA G200-09 DISTRIBUTION SYSTEMS AND M44 DISTRIBUTION VALVES; SELECTION, INSTALLATION, FIELD TESTING, AND MAINTENANCE, 3RD ED.
 - PRIOR TO ACCEPTANCE BY THE CITY OF ALEXANDRIA, FIELD TESTING AND PRESSURE READINGS SHALL BE PROVIDED BY THE CONTRACTOR.
 - FIRE HYDRANTS SHALL BE LOCATED AT EACH STREET INTERSECTION. THERE SHALL BE AT LEAST ONE FIRE HYDRANT LOCATED AT EACH INTERSECTION. THE MAXIMUM DISTANCE BETWEEN FIRE HYDRANTS IN BUSINESS DISTRICTS, MEASURING ALONG STREET CENTERLINES, SHALL BE 300 FEET. ALL PARTS OF EACH BUILDING SHALL BE WITHIN 500 FEET OF HOSE RUN FROM A FIRE HYDRANT. THE MAXIMUM DISTANCE BETWEEN FIRE HYDRANTS IN RESIDENTIAL DISTRICTS, MEASURED ALONG STREET CENTERLINES, SHALL NOT EXCEED 500 FEET.
 - PRIOR TO INSTALLATION OF PRIVATE HYDRANTS, AMERICAN WATER IS TO SIGN OFF ON THE HYDRANT LOCATION.
 - HYDRANTS SHALL NOT BE USED AS TEMPORARY BLOW-OFFS DURING CONSTRUCTION.
 - NO VERTICAL OBSTRUCTIONS SHALL BE WITHIN 10' OF EITHER SIDE OR REAR OF HYDRANT.
 - SPECIFY BOLLARDS WHERE HYDRANTS ARE UNPROTECTED BY CURB AND GUTTER, PLACED IN OPEN SPACE OR AT THE REAR OF COMMERCIAL BUILDINGS.
 - FIRE HYDRANTS SHALL BE PLACED AT SIGNIFICANT HIGH POINTS OF MAINS TO RELEASE AIR.
 - TO ENABLE THE DRAINING AND FLUSHING OF ALL MAINS, SPECIFY FIRE HYDRANTS AT SIGNIFICANT LOW POINTS.
 - LANDSCAPING, TREES, BMP'S, SIGNS, SIGNALS, LIGHT POLES, AND/OR OTHER UTILITIES ARE NOT PERMITTED TO BE WITHIN 5 FEET OF A HYDRANT.
 - WHEN INSTALLED IN PARKING AREA, FIRE HYDRANT SHALL BE PROTECTED BY BARRIERS THAT WILL PREVENT PHYSICAL DAMAGE BY VEHICLES.
 - IN THE CITY OF ALEXANDRIA, PUBLIC AND PRIVATE FIRE HYDRANTS ARE LOCATED AND MAINTAINED TO ASSURE THE APPROPRIATE SUPPLY OF WATER IS AVAILABLE FOR FIREFIGHTING PURPOSES. ALL PUBLIC FIRE HYDRANTS ARE THE PROPERTY OF THE CITY OF ALEXANDRIA. ALL FIRE HYDRANTS LOCATED ON PRIVATE PROPERTY ARE THE OWNERSHIP AND MAINTENANCE RESPONSIBILITY OF THE PROPERTY OWNER. IN ORDER TO PROVIDE FOR FIREFIGHTING PURPOSES, IT IS NECESSARY THAT ALL FIRE HYDRANTS BE EASILY RECOGNIZABLE TO AVOID BEING BLOCKED OR OBSTRUCTED. TO AID IN MAINTAINING THE IDENTIFIABLE APPEARANCE AND BY ORDER OF THE FIRE CHIEF, ALL FIRE HYDRANTS SHALL BE PAINTED AS DIRECTED:
 - ALL PUBLIC AND PRIVATE HYDRANT BARRELS AND EXTENSIONS SHALL BE PAINTED WITH THE APPROVED: SHERWIN WILLIAMS 'SAFETY YELLOW' #B54Y2437
 - ALL PUBLIC HYDRANT BONNETS AND CAPS SHALL BE PAINTED WITH AN APPROVED REFLECTIVE WHITE: SHERWIN WILLIAMS 'PURE WHITE' #B54WZ401
 - ALL PRIVATE HYDRANT BONNETS SHALL BE PAINTED WITH THE APPROVED: SHERWIN WILLIAMS 'SAFETY YELLOW' #B54Y2437
 - ALL PRIVATE HYDRANT CAPS SHALL BE PAINTED WITH THE APPROVED: SHERWIN WILLIAMS 'PURE WHITE' #B54WZ401
 - HYDRANT BARRELS AND EXTENSIONS MAY BE PAINTED WITH AN APPROVED FLAT BLACK IN THE HISTORIC AND OLD TOWN AREAS OF THE CITY WHEN SPECIFICALLY APPROVED IN WRITING BY THE FIRE CHIEF.

FIRE HYDRANT INSTALLATION NOTES	
06/21/2021	REVISION DATE
DEPARTMENT OF TRANSPORTATION & ENVIRONMENTAL SERVICES ALEXANDRIA, VIRGINIA	CSFH-1A PAGE 19



NOTE 1: CONTRACTOR TO INSTALL LIGHT POLE PER MANUFACTURER STANDARD PRIOR TO CASTING CONCRETE RETAINING WALL. CONTRACTOR TO FORM RETAINING WALL AROUND LIGHT POLE. TERMINATE ALL CONTINUOUS WALL REBAR AND MAINTAIN 3" EDGE DISTANCE TO EDGE OF LIGHT POLE.

SEE NOTE 1 FOR LIGHT POLE AND RETAINING WALL CONSTRUCTION NOTES

PROPOSED LIGHT POLE (SEE TABLE BELOW FOR DETAILS)

LIGHT POLE FOUNDATION DETAILS	
LIGHT POLE NO.	SHEET NO.
LP58	C-1004
LP154	C-1011
LP166	C-1012
LP168	C-1012
LP176	C-1012

PROPOSED RETAINING WALL (SEE SHEET C-403 FOR WALL PLAN) (SEE SHEET C-003A SPEC #506 FOR DETAILS)

PROPOSED LIGHT POLE #LP154 (SEE SHEET C-11011 FOR DETAILS)

SECTION A-A

LIGHT POLE/RETAINING WALL FOUNDATION DETAIL



CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

REVISIONS	
DATE	DESCRIPTION

ALEXANDRIA PROJECT NO.:	110104122
DATE OF PLAN ISSUANCE:	N/A
CONSULTANT PROJECT ID.:	N/A
DESIGNED BY:	VALUE DATE: 4/5/24
DRAWN BY:	VALUE DATE: 4/5/24
CHECKED BY:	VALUE DATE: 4/5/24
APPROVED BY:	DATE:

DETAILS



<p>STM8 CURB INLET W/STORM MH RIM=115.02' INV. IN=112.26' (STM7)</p> <p>STM7 CURB INLET W/STORM MH RIM=117.49' INV. IN=111.16' (S.E.) INV. IN=111.19' (STM8) INV. OUT=111.13' (STM6)</p> <p>STM6 STORM DRAIN MANHOLE RIM=112.28' INV. IN=108.65' (STM7) INV. OUT=107.75' (STM5)</p> <p>STM5 CURB INLET W/STORM MH RIM=111.81' INV. IN=107.34' (STM6) INV. OUT=107.28' (STM4)</p> <p>STM4 CURB INLET W/STORM MH RIM=117.88' INV. IN=106.26' (STM5) INV. OUT=106.10' (STM3)</p> <p>STM3 STORM DRAIN MANHOLE RIM=112.44' INV. IN=115.53' (SW) INV. OUT=115.01' (STM201)</p> <p>STM2 STORM DRAIN MANHOLE RIM=112.25' INV. IN=105.05' (N.W.) INV. IN=104.65' (STM3) INV. OUT=104.56' (STM1)</p> <p>STM1 CURB INLET W/STORM MH RIM=113.00' INV. IN=102.37' (STM2) INV. OUT NOT OBTAINED</p> <p>STM9 CURB INLET RIM=116.05' INV. OUT=113.76' (STM12)</p> <p>STM10 CURB INLET W/STORM MH RIM=117.07' INV. OUT=113.52' (STM11)</p> <p>STM11 CURB INLET W/STORM MH RIM=119.92' INV. IN=112.56' (STM10) INV. OUT=112.47' (STM12)</p> <p>STM12 CURB INLET W/STORM MH RIM=118.99' INV. IN=111.73' (STM9) INV. IN=111.64' (STM11) INV. IN=111.42' (STM15) INV. OUT=111.34' (STM13)</p> <p>STM13 STORM DRAIN MANHOLE RIM=110.78' INV. IN=102.43' (STM12) INV. OUT=102.42' (NW)</p> <p>STM14 CURB INLET W/STORM MH RIM=126.14' INV. IN=115.65' (STM201) INVERTS NOT OBTAINED FULL OF DEBRIS</p> <p>STM15 CURB INLET W/STORM MH RIM=126.26' INV. IN=122.50' (STM14) INV. OUT=121.18' (STM12)</p> <p>STM289 STORM DRAINAGE MANHOLE RIM=131.18' INV. IN=112.41' (NW) INV. IN=114.15' (S) INV. OUT=105.30' (STM288)</p> <p>STM288 STORM DRAINAGE MANHOLE RIM=112.17' INV. IN=104.26' (STM289) INV. OUT=104.24' (N)</p> <p>STM290 YARD INLET W/STORM MANHOLE RIM=128.92' INV. OUT=115.36' (STM291)</p> <p>STM291 CURB INLET W/STORM MANHOLE RIM=118.88' INV. IN=112.89' (STM290) INV. OUT=112.72' (E)</p> <p>STM107 CURB INLET RIM=129.86' INVERTS NOT OBTAINED FULL OF DEBRIS</p> <p>STM100 CURB INLET W/STORM MH RIM=130.34' INV. IN=126.16' (STM107) INV. OUT=125.16' (STM101)</p> <p>STM101 CURB INLET W/STORM MH RIM=126.69' INV. IN=120.81' (STM100) INV. IN=123.23' (STM106) INV. OUT=120.65' (STM102)</p> <p>STM106 STORM DRAIN MANHOLE RIM=126.79' INV. IN=124.17' (S) INV. IN=124.25' (E) INV. OUT=123.40' (STM101)</p> <p>STM102 CURB INLET W/STORM MH RIM=119.46' INV. IN=114.15' (STM101) INV. IN=114.96' (STM105) INV. OUT=113.74' (STM103)</p> <p>STM105 CURB INLET W/STORM MH RIM=119.37' INV. OUT=115.31' (STM102)</p>	<p>STM103 STORM DRAIN MANHOLE RIM=116.88' INV. IN=101.58' (STM104) INV. IN=108.61' (STM102) INV. OUT=101.58' (STM110)</p> <p>STM104 CURB INLET W/STORM MH RIM=116.56' INV. IN @ E=102.42' (STM108) INV. OUT NOT OBTAINED OBSTRUCTED</p> <p>STM108 STORM DRAIN MANHOLE RIM=120.16' INV. IN=111.72' (STM109) INV. IN=102.67' (S)</p> <p>STM109 STORM DRAIN MANHOLE RIM=119.92' INV. IN=114.37' (S) INV. OUT=114.15' (STM108)</p> <p>STM114 STORM DRAIN MANHOLE RIM=121.56' INV. IN=115.53' (SW) INV. OUT=115.01' (STM201)</p> <p>STM119 CURB INLET W/STORM MH RIM=118.96' INV. OUT=115.25' (BLIND CONNECTION STM114-STM201)</p> <p>STM201 STORM DRAIN MANHOLE RIM=118.45' INV. IN=115.37' (STM120) INV. IN=113.93' (STM202) INV. IN=113.98' (STM114) INV. OUT=113.59' (STM200)</p> <p>STM202 STORM DRAIN MANHOLE RIM=118.16' INV. IN=114.48' (STM119) INV. IN=114.46' (STM117) INV. OUT=114.37' (STM201)</p> <p>STM116 CURB INLET W/STORM MH RIM=119.24' INV. OUT=116.51' (STM117)</p> <p>STM115 CURB INLET W/STORM MH RIM=121.39' INV. OUT=115.82' (STM117)</p> <p>STM117 STORM DRAIN MANHOLE RIM=118.04' INVERTS NOT OBTAINED FULL OF DEBRIS</p> <p>STM118 STORM DRAIN MANHOLE RIM=118.12' INV. OUT=114.57' (STM202)</p> <p>STM120 YARD DRAIN INLET TOP GRATE=118.71' INV. OUT=115.65' (STM201)</p> <p>STM200 STORM DRAIN MANHOLE RIM=118.27' INV. IN=113.00' (STM201) INV. OUT=113.02' (STM51)</p> <p>STM121 CURB INLET W/STORM MH RIM=117.33' INV. OUT=113.33' (STM51)</p> <p>STM51 STORM DRAIN MANHOLE RIM=117.49' INV. IN=111.78' (STM200) INV. IN=111.88' (STM121) INV. OUT=111.75' (STM50)</p> <p>STM122 CURB INLET W/STORM MH RIM=118.82' INV. OUT=113.97' (BLIND CONNECTION STM51-STM50)</p> <p>STM123 CURB INLET W/STORM MH RIM=119.45' INV. OUT=115.82' (STM2003)</p> <p>STM321 STORM DRAIN MANHOLE RIM=116.18' INV. IN=102.91' (STM2003) INV. IN=95.34' (STM111) INV. IN=103.21' (STM322) INV. OUT=95.32'</p> <p>STM322 STORM DRAIN MANHOLE RIM=117.21' INV. IN=103.33' (STM324) INV. OUT=103.25' (STM321)</p> <p>STM324 STORM DRAIN MANHOLE RIM=117.91' INV. IN=105.96' (W) INV. OUT=103.33' (STM322)</p> <p>STM2003 STORM DRAIN MANHOLE RIM=120.81' INV. IN=115.00' (STM123) INV. IN=104.55' (STM50) INV. IN=115.16' (STM2004) INV. OUT=104.24' (STM321)</p> <p>STM2004 CDI W/ STORM DRAIN MANHOLE RIM=129.61' INV. OUT=124.18' (STM2003)</p> <p>STM50 STORM DRAIN MANHOLE RIM=120.91' INV. IN=109.90' (STM2000) INV. IN=109.96' (STM51) INV. OUT=104.39' (STM2003)</p>	<p>STM2001 YARD DRAIN INLET TOP GRATE=117.38' INV. IN=113.00' (STM2001) INV. OUT=111.83' (STM2016)</p> <p>STM2001 STORM DRAIN MANHOLE RIM=117.86' INVERTS NOT OBTAINED FULL OF DEBRIS</p> <p>STM2002 STORM DRAIN MANHOLE TOP=117.83' INVERTS NOT OBTAINED FULL OF DEBRIS</p> <p>STM110 STORM DRAIN MANHOLE RIM=123.86' INV. IN=110.06' (STM124) INV. IN=98.97' (STM103) INV. IN=109.03' (STM20292) INV. OUT=98.97' (STM111)</p> <p>STM112 STORM DRAIN MANHOLE RIM=116.90' INV. OUT=113.62' (STM110)</p> <p>STM111 STORM DRAIN MANHOLE RIM=115.85' INV. IN=109.74' (STM112) INV. IN=96.62' (STM110) INV. OUT=96.62' (STM321)</p> <p>STM20292 STORM DRAIN MANHOLE RIM=121.33' INV. OUT=113.62' (STM110)</p> <p>STM112 STORM DRAIN MANHOLE RIM=118.35' INV. IN=114.08' (STM113) INV. IN=113.13' (STM124) INV. OUT=113.13' (STM111)</p> <p>STM112A FLARED END SECTION W/ 24" RCP INV. IN=113.44'</p> <p>STM113 STORM DRAIN MANHOLE RIM=118.06' INV. IN=113.99' (W) INV. IN=117.01' (E) INV. OUT=116.85' (N)</p> <p>STM20291 STORM DRAIN MANHOLE RIM=124.88' INV. OUT=120.33' (STM20292)</p> <p>STM20292 STORM DRAIN MANHOLE RIM=121.33' INV. IN=117.01' (STM20291) INV. IN=117.01' (E) INV. OUT=116.85' (N)</p> <p>STM2016 CURB INLET W/STORM MH RIM=103.44' INV. IN=95.04' (STM2017) INV. OUT=94.94' (STM2015)</p> <p>STM2015 YARD DRAIN INLET TOP GRATE=100.04' INV. IN=93.16' (STM2016) INV. OUT=93.03' (STM2013)</p> <p>STM2013 CURB INLET W/STORM MH RIM=101.05' INV. IN=92.72' (STM2015) INV. IN=92.72' (STM2014) INV. OUT=92.70' (STM2006)</p> <p>STM2014 CURB INLET W/STORM MH RIM=99.99' INV. OUT=96.64' (STM2013)</p> <p>STM2006 STORM DRAIN MANHOLE RIM=103.76' INV. IN=89.16' (NE) INV. IN=96.23' (STM2007) INV. OUT=89.16' (STM2013)</p> <p>STM2007 STORM WEIR TOP=101.42' INV. IN=95.87' (STM2006) INV. OUT=96.09' (SE)</p> <p>STM2007A 15" RCP INV. IN=96.14'</p> <p>STM20285 YARD INLET W/STORM MANHOLE RIM=104.47' INV. OUT=100.17' (STM20286)</p> <p>STM20286 CURB INLET W/STORM MANHOLE RIM=103.26' INV. IN=99.29' (STM20285) INV. OUT=99.00' (STM20287)</p> <p>STM20287 STORM DRAINAGE MANHOLE RIM=105.01' INVERTS NOT OBTAINED LID RUSTED SHOT</p> <p>STM20288 STORM DRAINAGE MANHOLE RIM=108.15' INV. IN=100.04' (S) INV. OUT=100.01' (20288A)</p> <p>STM20288A 18" RCP INV. OUT=97.77'</p> <p>STM2020 YARD DRAIN INLET TOP GRATE=108.25' INV. OUT=103.65' (STM2019)</p> <p>STM2019 YARD DRAIN INLET (2) TOP GRATE=107.36' INV. IN=102.69' (STM2020) INV. IN=97.15' (STM2021) INV. OUT=97.14' (STM2017)</p> <p>STM2021 STORM DRAIN MANHOLE RIM=108.45' INV. IN=97.05' (N) INV. OUT=97.30' (STM2019)</p>	<p>STM2017 STORM DRAIN MANHOLE RIM=107.04' INV. IN=97.01' (STM2019) INV. OUT=88.84' (STM2016)</p> <p>STM2012 CURB INLET W/STORM MANHOLE RIM=109.60' INV. OUT=105.00' (STM2011)</p> <p>STM2011 CURB INLET W/STORM MANHOLE RIM=108.12' INV. IN=103.93' (STM2012) INV. OUT=103.82' (STM2010)</p> <p>STM2010 CURB INLET W/STORM MANHOLE RIM=97.70' INV. IN=93.15' (STM2011) INV. OUT=93.05' (STM2009)</p> <p>STM2009 CURB INLET W/STORM MANHOLE RIM=97.44' INV. IN=92.74' (STM2010) INV. OUT=92.39' (STM2008)</p> <p>STM2008 CURB INLET W/STORM MANHOLE RIM=97.45' INV. IN=92.20' (STM2009) INV. OUT=92.13' (NW BLIND CONNECTION)</p> <p>STM20289 CURB INLET W/STORM MANHOLE RIM=102.62' INV. OUT=99.02' (STM20290)</p> <p>STM20290 STORM DRAINAGE MANHOLE RIM=103.63' INV. IN=97.02' (STM20289) INV. IN=99.19' (SE) INV. OUT=96.65' (NE)</p> <p>STM52015 CURB INLET W/STORM MH RIM=97.93' INV. OUT=86.78' (STM3016)</p> <p>STM3016 STORM DRAIN MANHOLE RIM=90.80' INV. IN=86.63' (STM3020) INV. OUT=86.55' (STM3017)</p> <p>STM3017 CURB INLET W/STORM MANHOLE RIM=91.41' INV. IN=86.42' (STM3016) INV. OUT=86.13' (STM3015)</p> <p>STM3019 CURB INLET W/STORM MANHOLE RIM=120.97' INV. OUT=117.32' (STM3107)</p> <p>STM3107 CURB INLET W/STORM MH RIM=118.31' INVERTS NOT OBTAINED FULL OF DEBRIS</p> <p>STM3106 CURB INLET W/STORM MH RIM=114.27' INV. OUT=111.21' (STM3105)</p> <p>STM3105 CURB INLET W/STORM MH RIM=111.91' INV. IN=107.67' (STM3107) INV. IN=107.87' (STM3106) INV. OUT=107.00' (STM3105A)</p> <p>STM3105A 18" RCP INV. OUT=90.24'</p> <p>STM3009 STORM DRAIN MANHOLE RIM=94.06' INV. IN=89.06' (N) INV. IN=? (W) INV. IN=89.04' (S) INV. OUT=88.40' (STM3010)</p> <p>STM3010 STORM DRAIN MANHOLE RIM=91.18' INV. IN @ E=84.88' IN=(STM3007)(STM3009)(STM3029) INV. OUT=84.68' (STM214)</p> <p>STM3030 CURB INLET W/STORM MANHOLE RIM=93.29' INV. OUT=87.14' (STM3029)</p> <p>STM3029 CURB INLET W/STORM MANHOLE RIM=92.67' INV. IN=85.35' (STM3030) INV. OUT=84.86' (STM3010)</p> <p>STM214 STORM DRAIN MANHOLE RIM=90.73' INV. IN=85.69' (STM3012) INV. IN=83.41' (STM3010) INV. OUT=83.40' (STM57)</p> <p>STM3012 CURB INLET W/STORM MANHOLE RIM=91.41' INV. IN=87.36' (STM3021) INV. OUT=87.35' (STM214)</p> <p>STM3021 CURB INLET W/STORM MANHOLE RIM=95.77' INV. OUT=91.05' (STM3012)</p> <p>STM3007 STORM DRAIN MANHOLE RIM=91.20' INV. IN=86.60' (STM3025) INV. IN=86.28' (STM3006) INV. IN (STM3008) PIPE RECESSED INV. OUT=86.27' (STM3010)</p> <p>STM3025 CURB INLET W/STORM MANHOLE RIM=91.74' INV. OUT=87.12' (STM3007)</p> <p>STM3028 CURB INLET W/STORM MANHOLE RIM=91.14' INV. OUT=87.29' (STM3008)</p> <p>STM3008 CURB INLET W/STORM MANHOLE RIM=92.30' INV. IN=87.45' (STM3026) INV. IN=87.75' (STM3028) BOT STR=81.15' (FULL OF WATER)</p> <p>STM3027 CURB INLET W/STORM MANHOLE RIM=94.14' INV. OUT=90.09' (STM3026)</p>	<p>STM3026 STORM DRAIN MANHOLE RIM=94.51' INV. IN=89.07' (STM3027) INV. OUT=88.84' (STM3008)</p> <p>STM3014 YARD INLET W/STORM MH RIM=88.83' INV. OUT=85.22' (STM3015)</p> <p>STM3015 YARD INLET W/STORM MH RIM=88.64' INV. IN=85.14' (STM3014) INV. OUT=84.74' (STM3024)</p> <p>STM3024 15" RCP INV. IN=84.09'</p> <p>STM57 STORM DRAIN MANHOLE RIM=90.81' INV. IN=81.88' (STM203) INV. IN=82.40' (STM214) INV. IN=82.40' (STM3013) INV. OUT=81.77' (STM57A)</p> <p>STM57A 60" RCP INV. OUT=80.04'</p> <p>STM3013 CURB INLET W/STORM MANHOLE RIM=91.08' INV. OUT=86.98' (STM57)</p> <p>STM201 STORM DRAIN MANHOLE RIM=91.05' INV. IN=83.23' (STM3053) INV. IN=83.95' (STM3017) INV. IN=85.16' (STM3019) INV. OUT=83.22' (STM57)</p> <p>STM3020 CURB INLET W/STORM MANHOLE RIM=90.36' INV. OUT=86.78' (STM3016)</p> <p>STM3016 STORM DRAIN MANHOLE RIM=90.80' INV. IN=86.63' (STM3020) INV. OUT=86.55' (STM3017)</p> <p>STM3017 CURB INLET W/STORM MANHOLE RIM=91.41' INV. IN=86.42' (STM3016) INV. OUT=86.13' (STM3015)</p> <p>STM3019 CURB INLET W/STORM MANHOLE RIM=120.97' INV. OUT=117.32' (STM203)</p> <p>STM3060 STORM DRAINAGE MANHOLE RIM=115.42' INV. IN=109.59' (W) INV. IN=112.07' (N) INV. OUT=105.74' (STM3037)</p> <p>STM3037 STORM DRAINAGE MANHOLE RIM=102.94' INV. IN=97.04' (STM3060) INV. OUT=97.03' (STM3033)</p> <p>STM3033 STORM DRAINAGE MANHOLE RIM=99.97' INV. IN=94.42' (STM3036) INV. IN=94.42' (STM3035) INV. IN=93.98' (STM3037) INV. IN=95.07' (STM3034) INV. OUT=93.92' (STM3032)</p> <p>STM3036 CURB INLET W/STORM MANHOLE RIM=97.29' INV. OUT=94.40' (STM3033)</p> <p>STM3035 CURB INLET W/STORM MANHOLE RIM=102.13' INV. IN=97.20' (W) INV. OUT=97.12' (STM3033)</p> <p>STM3034 CURB INLET W/STORM MANHOLE RIM=90.67' INV. OUT=85.26' (STM3033)</p> <p>STM3032 STORM DRAINAGE MANHOLE RIM=97.57' INV. IN=91.26' (STM3033) INV. OUT=91.09' (STM3004)</p> <p>STM3004 STORM DRAINAGE MANHOLE RIM=96.14' INV. IN=89.99' (STM3032) INV. OUT=89.24' (STM3005)</p> <p>STM3005 STORM DRAINAGE MANHOLE RIM=95.45' INV. IN=88.65' (STM3004) INV. OUT=88.42' (STM3006)</p> <p>STM3006 STORM DRAINAGE MANHOLE RIM=91.30' INV. IN=87.08' (STM3005) INV. OUT=86.90' (STM3007)</p> <p>STM3050 CURB INLET W/STORM MANHOLE RIM=108.79' INV. IN=101.99' (STM3046) INV. IN=101.52' (STM58) INV. IN=101.92' (STM63) INV. OUT=100.99' (STM3053)</p> <p>STM3049 CURB INLET W/STORM MANHOLE RIM=118.95' INV. OUT=115.11' (STM3048)</p> <p>STM3048 CURB INLET W/STORM MANHOLE RIM=111.99' (STM3049) INV. OUT=111.78' (STM3047)</p> <p>STM3047 CURB INLET W/STORM MANHOLE RIM=112.67' INV. IN=107.79' (STM3048) INV. OUT=107.64' (STM3046)</p> <p>STM3046 CURB INLET W/STORM MANHOLE RIM=109.19' INV. IN=104.67' (STM3047) INV. OUT=104.27' (STM3050)</p>	<p>STM3050 CURB INLET W/STORM MANHOLE RIM=110.32' INV. OUT=106.09' (STM63)</p> <p>STM63 STORM DRAINAGE MANHOLE RIM=108.34' INV. IN=104.61' (STM3050) INV. OUT=104.46' (STM3050)</p> <p>STM3053 STORM DRAINAGE MANHOLE RIM=102.02' INV. IN=95.52' (STM3040) INV. IN=94.09' (STM3050) INV. IN=97.69' (STM3055) INV. OUT=93.86' (STM203)</p> <p>STM3044 METAL GRATE TOP=103.66' INV. IN=100.01' (N) INV. OUT=99.91' (STM3043)</p> <p>STM3043 FILTRATION SYSTEM W/MANHOLE RIM=104.52' INV. IN=99.42'</p> <p>STM3042 FILTRATION SYSTEM W/MANHOLE RIM=104.49' NO INVERTS TO OBTAIN STORM DRAINAGE BOX</p> <p>STM3041 FILTRATION SYSTEM W/MANHOLE RIM=104.46' INV. OUT=131.55' (STM212) INV. OUT=99.75' (STM3039)</p> <p>STM3039 YARD INLET TOP=102.98' INV. IN=99.47' (STM3041) INV. OUT=98.93' (STM3040)</p> <p>STM3040 CURB INLET W/STORM MANHOLE RIM=102.73' INV. IN=97.58' (STM3039) INV. OUT=96.78' (STM3053)</p> <p>STM3056 CURB INLET W/STORM MANHOLE RIM=102.74' INV. OUT=100.32' (STM3055)</p> <p>STM3055 CURB INLET W/STORM MANHOLE RIM=101.67' INV. IN=98.21' (STM3056) INV. IN=126.94' (STM3054) INV. OUT=98.14' (STM3053)</p> <p>STM3054 METAL GRATE TOP=101.44' INV. OUT=99.68' (STM3055)</p> <p>STM3052 CURB INLET W/STORM MANHOLE RIM=101.39' INV. IN=96.16' (BLIND CONNECTION STM3053-STM203)</p> <p>STM3100 YARD INLET W/STORM MANHOLE RIM=146.17' INV. IN=139.16' (STM3098) INV. IN=140.64' (STM3099) INV. OUT=138.67' (STM3070)</p> <p>STM3099 YARD INLET W/STORM MANHOLE RIM=159.68' INV. OUT=154.75' (STM3087)</p> <p>STM3087 CURB INLET W/STORM MANHOLE RIM=155.15' INV. IN=148.49' (STM3089) INV. OUT=146.15' (STM3086)</p> <p>STM3086 CURB INLET W/STORM MANHOLE RIM=154.72' INV. IN=149.12' (STM3084)</p> <p>STM3086A CURB INLET W/STORM MANHOLE RIM=153.62' INV. IN=145.38' (STM3087) INV. OUT=145.82' (STM3085)</p> <p>STM3085 CURB INLET W/STORM MANHOLE RIM=153.45' INV. OUT=144.74' (STM3084)</p> <p>STM3085 CURB INLET W/STORM MANHOLE RIM=150.18' INVERTS NOT OBTAINED FULL OF DEBRIS</p> <p>STM3104 STORM DRAINAGE MANHOLE RIM=155.15' INVERTS NOT OBTAINED LID BROKEN</p> <p>STM3084 YARD INLET W/STORM MANHOLE RIM=152.02' INV. IN=143.88' (STM3088) INV. IN=143.99' (STM3086A) INV. OUT=143.85' (STM3099)</p> <p>STM3098 CURB INLET W/STORM MANHOLE RIM=151.72' INV. IN=141.75' (STM3084) INV. OUT=141.61' (STM3100)</p> <p>STM3070 STORM DRAINAGE MANHOLE RIM=141.52' INV. IN=134.77' (STM3100) INV. OUT=134.03' (STM3071)</p> <p>STM3071 CURB INLET W/STORM MANHOLE RIM=142.34' INV. IN=133.48' (STM3070) INV. OUT=133.34' (STM3069)</p> <p>STM3069 STORM DRAINAGE MANHOLE RIM=142.09' INV. IN=136.85' (STM3079) INV. IN=132.36' (STM3071) INV. OUT=132.36' (STM3072)</p> <p>STM3079 STORM DRAINAGE MANHOLE RIM=146.92' INV. IN=142.27' (N) INV. IN=141.82' (NW) INV. OUT=141.57' (STM3069)</p>	<p>STM3072 STORM DRAINAGE MANHOLE RIM=136.93' INV. IN=129.65' (STM3069) INV. IN=132.23' (STM3067) INV. OUT=129.61' (STM3073)</p> <p>STM3078A CURB INLET W/STORM MANHOLE RIM=140.42' INV. OUT=135.07' (STM3067)</p> <p>STM3067 CURB INLET W/STORM MANHOLE RIM=137.50' INV. IN=134.69' (STM3078A) INV. OUT=134.63' (STM3072)</p> <p>STM3073 YARD INLET W/GRATE TOP=133.18' INV. IN=125.73' (STM3072) INV. OUT=125.72' (STM20182)</p> <p>STM20128 STORM DRAINAGE MANHOLE RIM=133.29' INV. IN=125.17' (STM3074) INV. IN=123.56' (STM3073) INV. OUT=123.55' (STM58)</p> <p>STM3078 CURB INLET W/STORM MANHOLE RIM=135.50' INV. IN=132.52' (S) INV. OUT=131.55' (STM212)</p> <p>STM212 STORM DRAINAGE MANHOLE RIM=134.99' INV. IN=129.94' (STM3075) INV. IN=128.81' (STM3078) INV. IN=129.97' (STM213) INV. OUT=128.30' (STM3074)</p> <p>STM213 STORM DRAINAGE MANHOLE RIM=161.15' INV. IN=155.50' (STM212)</p> <p>STM3075 CURB INLET W/STORM MANHOLE RIM=135.45' INV. OUT=130.57' (STM212)</p> <p>STM3074 CURB INLET W/STORM MANHOLE RIM=134.79' INV. IN=128.76' (N) INV. IN=126.94' (STM212) INV. OUT=126.73' (STM20128)</p> <p>STM3066 CURB INLET W/STORM MANHOLE RIM=133.37' INV. OUT=129.97' (STM3065)</p> <p>STM3065 STORM DRAINAGE MANHOLE RIM=132.09' INV. IN=126.28' (STM3066) INV. IN=126.29' (N-NE) INV. IN=129.84' (E-NE) INV. IN=126.47' (STM3063) INV. OUT=123.46' (STM204)</p> <p>STM3064 CURB INLET W/STORM MANHOLE RIM=132.42' INV. OUT=127.29' (STM3063)</p> <p>STM3063 CURB INLET W/STORM MANHOLE RIM=131.82' INV. IN=126.88' (STM3064) INV. OUT=126.80' (STM3065)</p> <p>STM204 STORM DRAINAGE MANHOLE RIM=130.27' INV. IN=122.74' (STM3065) INV. IN=123.61' (STM3062) INV. OUT=122.49' (W BLIND CONNECTION)</p> <p>STM3062 CURB INLET W/STORM MANHOLE RIM=130.65' INV. IN=124.04' (STM204)</p> <p>STM58 STORM DRAIN MANHOLE RIM=125.54' INV. IN=114.56' (STM3077) INV. IN=113.96' (STM20128) INV. IN=119.87' (STM3061) INV. OUT=113.92' (STM3050)</p> <p>STM3061 CURB INLET W/STORM MANHOLE RIM=125.95' INV. IN=121.57' (E) PIPE CRUSHED INV. OUT=121.02' (STM58)</p> <p>STM3081 TRENCH DRAIN TOP=129.81' INV. OUT=129.01' (STM3080)</p> <p>STM3080 TRENCH DRAIN TOP=128.88' INV. IN=126.59' (STM3081) INV. OUT=126.45' (STM3077)</p> <p>STM3077 CURB INLET W/STORM MANHOLE RIM=127.15' INV. IN=123.66' (STM3080) INV. OUT=123.15' (STM58)</p> <p>STM3095 YARD INLET W/STORM MANHOLE RIM=177.41' INV. IN=171.70' (STM227) INV. IN=173.11' (STM3094) INV. OUT=171.32' (STM3090)</p> <p>STM3094 CURB INLET W/STORM MANHOLE RIM=166.10' INV. IN=159.19' (STM3095) INV. IN=159.06' (STM3091) INV. OUT=158.53' (STM3097)</p> <p>STM3093 YARD INLET W/STORM MANHOLE RIM=191.08' INV. IN=185.68' (SE) INV. IN=186.13' (NE) INV. OUT=179.62' (STM3092)</p>	<p>STM3092 STORM DRAIN MANHOLE RIM=181.97' INV. IN=177.69' (STM3093) INV. OUT=167.48' (STM3091)</p> <p>STM3091 CURB INLET W/STORM MANHOLE RIM=167.36' INV. IN=163.51' (STM3092) INV. OUT=161.43' (STM3090)</p> <p>STM3097 CURB INLET W/STORM MANHOLE RIM=165.41' INV. IN=155.27' (STM3090) INV. OUT=150.02' (STM3098)</p> <p>STM3098 STORM DRAIN MANHOLE RIM=174.02' INV. IN=145.12' (SW) INV. IN=145.12' (N) INV. IN=147.72' (STM3097) INV. OUT=145.64' (STM3100)</p> <p>STM216 CURB INLET W/STORM MANHOLE RIM=208.34' INV. OUT=204.55' (STM217)</p> <p>STM217 STORM DRAINAGE MANHOLE RIM=208.25' INV. IN=203.62' (STM216) INV. OUT=201.30' (STM207)</p> <p>STM207 STORM DRAINAGE MANHOLE RIM=205.58' INV. IN=201.06' (STM215) INV. IN=198.96' (STM217) INV. OUT=198.96' (STM224)</p> <p>STM215 CURB INLET W/STORM MANHOLE RIM=208.78' INV. OUT=205.18' (STM207)</p> <p>STM224 YARD INLET TOP=197.84' INV. IN=191.74' (STM207) INV. OUT=190.93' (STM227)</p> <p>STM218 METAL GRATE TOP=209.86' INV. IN=206.46' (SE) INV. OUT=206.44' (STM219)</p> <p>STM219 METAL GRATE RIM=209.40' INV. IN=205.17' (STM218) INV. OUT=205.13' (STM220)</p> <p>STM220 CURB INLET W/STORM MANHOLE RIM=209.24' INV. IN=204.85' (STM219) INV. OUT=204.62' (STM221)</p> <p>STM221 CURB INLET W/STORM MANHOLE RIM=206.02' INV. IN=201.92' (STM220) INV. OUT=200.53' (STM223)</p> <p>STM223 CURB INLET W/STORM MANHOLE RIM=201.97' INV. IN=197.67' (STM221) INV. IN=198.05' (STM222) INV. OUT=196.01' (STM224)</p> <p>STM222 METAL GRATE TOP=208.86' INV. OUT=202.97' (STM223)</p> <p>STM227 CURB INLET W/STORM MANHOLE RIM=189.26' INV. IN=185.01' (STM228) INV. IN=182.43' (STM224) INV. IN=183.83' (STM226) INV. OUT=182.00' (STM3095)</p> <p>STM225 METAL GRATE RIM=201.27' INV. OUT=197.56' (STM226)</p> <p>STM226 CURB INLET W/STORM MANHOLE RIM=191.72' INV. IN=187.57' (STM225) INV. OUT=186.56' (STM227)</p> <p>STM228 CURB INLET W/STORM MANHOLE RIM=191.84' INV. OUT=187.76' (STM227)</p> <p>STM52007 METAL GRATE TOP GRATE=193.95' CANNOT OBTAIN INVERTS FULL OF DEBRIS</p> <p>STM3103 Y</p>
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<p>STM246 CURB INLET W/STORM MANHOLE RIM=209.45' INV. IN=205.30' (STM245)</p> <p>STM245 STORM DRAINAGE MANHOLE RIM=207.26' INV. IN=203.31' (STM246) INV. OUT=202.96' (STM247)</p> <p>STM247 CURB INLET W/STORM MANHOLE RIM=207.24' INV. IN=202.72' (STM245) INV. OUT=199.26' (STM248)</p> <p>STM248 FLARED END SECTION 15" RCP INV. OUT=197.69' (RETENTION POND)</p> <p>STM232 METAL GRATE TOP GRATE=216.75' INV. IN=213.65' (E) INV. OUT=213.60' (STM231)</p> <p>STM233 METAL GRATE TOP GRATE=214.37' UNABLE TO OBTAIN INVERTS CAR PARKED ON STRUCTURE</p> <p>STM231 STORM DRAINAGE MANHOLE RIM=215.35' INV. IN=209.64' (STM232) INV. IN=209.77' (STM233) INV. OUT=208.81' (STM230)</p> <p>STM229 METAL GRATE TOP GRATE=214.91' INV. OUT=209.52' (STM230)</p> <p>STM230 STORM DRAINAGE MANHOLE RIM=216.11' INV. IN=206.92' (STM229) INV. IN=207.07' (STM231) INV. OUT=206.77' (STM232)</p> <p>STM238 STORM DRAINAGE MANHOLE RIM=214.00' INV. OUT=208.95' (STM236)</p> <p>STM234 STORM DRAINAGE MANHOLE RIM=213.95' INV. IN=206.13' (STM238) INV. IN=199.48' (STM230) INV. OUT=199.24' (STM237)</p> <p>STM234 STORM DRAINAGE MANHOLE RIM=208.42' (S) INV. OUT=198.76' (STM236)</p> <p>STM236 STORM DRAINAGE MANHOLE RIM=212.90' INV. IN=201.32' (STM235) INV. IN=197.25' (STM234) INV. OUT=197.12' (STM237)</p> <p>STM235 METAL STORM GRATE TOP GRATE=207.19' INV. OUT=204.67' (STM236)</p> <p>STM237 STORM DRAINAGE MANHOLE RIM=213.07' INV. IN=195.67' (STM236) INV. IN=197.20' (STM234) INV. OUT=195.57' (STM240)</p> <p>STM239 CURB INLET W/STORM MANHOLE RIM=210.15' INV. OUT=205.13' (BLIND CONNECTION STM237-STM240)</p> <p>STM240 CURB INLET W/STORM MANHOLE RIM=209.83' INV. IN=193.26' (STM237) INV. OUT=192.90' (STM241)</p> <p>STM242 CURB INLET W/STORM MANHOLE RIM=207.37' INV. OUT=202.35' (STM241)</p> <p>STM241 CURB INLET W/STORM MANHOLE RIM=206.82' INV. IN=190.76' (STM240) INV. IN=199.42' (STM242) INV. IN @ STM247 NOT OBTAINED - TOO DEEP INV. OUT=182.57' (STM269)</p> <p>STM247 YARD INLET TOP GRATE=192.24' INV. OUT=168.63' (STM241) TOO DEEP TO DETERMINE PIPE SIZE</p> <p>STM250 CURB INLET W/STORM MANHOLE RIM=195.99' INV. IN=191.69' (NW) INV. IN=191.64' (RETENTION POND) INV. OUT=191.54' (STM249)</p> <p>STM249 YARD INLET TOP GRATE=193.22' INV. IN=190.57' (STM250) INV. OUT=190.52' (STM251)</p> <p>STM251 CURB INLET W/STORM MANHOLE RIM=191.81' INV. IN=187.56' (STM244) INV. IN=187.61' (STM249) INV. OUT=187.44' (STM252)</p> <p>STM243 CURB INLET INV. OUT=202.11' STRUCTURE DESTROYED</p> <p>STM244 CURB INLET W/STORM MANHOLE RIM=202.52' INV. IN=197.84' (STM243) INV. OUT=197.87' (STM251)</p> <p>STM252 YARD INLET TOP GRATE=188.43' INV. IN=181.83' (STM251) INV. OUT=181.80' (STM267)</p>	<p>STM67 STORM DRAINAGE MANHOLE RIM=184.28' INV. IN=180.56' (STM252) INV. IN=178.27' (STM268) INV. OUT=177.25' (STM269)</p> <p>STM68 CURB INLET W/STORM MANHOLE RIM=184.57' INV. OUT=179.02' (STM267)</p> <p>STM69 STORM DRAINAGE MANHOLE RIM=181.31' INV. IN=172.25' (STM267) INV. OUT=172.25' (STM270)</p> <p>STM70 STORM DRAINAGE MANHOLE RIM=177.74' INV. IN=171.29' (STM269) INV. OUT=171.24' (STM256)</p> <p>STM256 STORM DRAINAGE MANHOLE RIM=177.28' INV. IN=169.62' (STM270) INV. IN=171.52' (STM255) INV. IN=172.20' (STM257) INV. OUT=169.46' (E)</p> <p>STM259 CURB INLET W/STORM MANHOLE RIM=177.69' INVERTS NOT OBTAINED FULL OF DEBRIS</p> <p>STM257 CURB INLET W/STORM MANHOLE RIM=176.18' INV. OUT=171.94' (STM256)</p> <p>STM261 CURB INLET W/STORM MANHOLE RIM=185.89' INV. OUT=180.94' (STM262)</p> <p>STM262 CURB INLET W/STORM MANHOLE RIM=184.75' INV. IN=178.49' (STM261) INV. OUT=171.15' (STM326)</p> <p>STM326 YARD INLET TOP GRATE=169.66' INV. IN=166.08' (STM262) INV. OUT=165.66' (STM260)</p> <p>STM260 YARD INLET TOP GRATE=173.35' INV. IN=164.87' (STM326) INV. IN=167.82' (STM263) INV. OUT=164.88' (STM327)</p> <p>STM263 STORM DRAINAGE MANHOLE RIM=177.53' INV. OUT=173.43' (STM260)</p> <p>STM327 YARD INLET TOP GRATE=170.23' INV. IN=164.01' (STM260) INV. OUT=163.99' (STM328)</p> <p>STM328 STORM DRAINAGE MANHOLE RIM=168.13' INV. IN=163.39' (STM327) INV. OUT=163.10' (S)</p> <p>STM65 STORM DRAINAGE MANHOLE RIM=191.20' INV. IN=183.60' (STM265) INV. IN=183.51' (STM52493) INV. OUT=182.69' (Z5052)</p> <p>STM52493 CURB INLET W/STORM MANHOLE RIM=190.06'</p> <p>STM25052 STORM DRAINAGE MANHOLE RIM=189.00' INVERTS NOT OBTAINED - LID STUCK</p> <p>STM2002 STORM DRAINAGE MANHOLE RIM=186.58' INV. IN=179.83' (STM25052) INV. IN=179.60' (SW NEF) INV. OUT=179.31' (STM2001)</p> <p>STM2000 STORM DRAINAGE MANHOLE RIM=186.65' INV. OUT=183.35' (STM2001)</p> <p>STM2001 STORM DRAINAGE MANHOLE RIM=186.52' INV. IN=179.37' (STM2002) INV. IN=179.09' (STM253) INV. OUT NOT OBTAINED - CANNOT SEE (STM254)</p> <p>STM253 CURB INLET W/STORM MANHOLE RIM=186.53' INVERTS NOT OBTAINED - FULL OF DEBRIS</p> <p>STM264 CURB INLET W/STORM MANHOLE RIM=202.07' INVERTS NOT OBTAINED - FULL OF DEBRIS</p> <p>STM265 CURB INLET W/STORM MANHOLE RIM=201.71' INV. IN=196.64' (STM264) INV. OUT=196.49' (STM266)</p> <p>STM266 STORM DRAINAGE MANHOLE RIM=201.89' INV. IN=193.65' (STM265) INV. OUT=172.66' (STM254)</p> <p>STM254 YARD INLET TOP GRATE=189.28' INV. IN @ 6=170.34' (STM266) INV. OUT @ 6=176.34' (STM2001)</p> <p>STM10407 STORM DRAINAGE MANHOLE RIM=124.70' INV. IN=118.97' (STM286) INV. IN=118.76' (STM10408) INV. OUT=118.15' (STM10410)</p>	<p>STM284 STORM DRAINAGE MANHOLE RIM=195.89' NO INVERTS OBTAINED FULL OF DEBRIS</p> <p>STM267 METAL GRATE TOP GRATE=193.60' INV. IN=187.32' (STM294) INV. IN=187.21' (STM266) INV. OUT=187.01' (STM269)</p> <p>STM268 STORM DRAINAGE MANHOLE RIM=194.03' INV. IN=188.70' (STM267)</p> <p>STM269 STORM DRAINAGE MANHOLE RIM=194.45' INV. IN=186.25' (STM267) INV. OUT=186.04' (STM270)</p> <p>STM270 CURB INLET W/STORM MANHOLE RIM=195.94' INV. IN=185.85' (STM269) INV. IN=186.52' (STM271) INV. OUT=185.19' (STM259)</p> <p>STM271 STORM DRAINAGE MANHOLE RIM=194.90' INV. OUT=191.17' (STM270)</p> <p>STM59 STORM DRAINAGE MANHOLE RIM=195.57' INV. IN=167.68' (STM270) INV. OUT=167.77' (S)</p> <p>STM293 STORM DRAINAGE MANHOLE RIM=185.85' INV. IN=177.49' (W) INV. IN=166.19' (N) INV. OUT=166.17' (STM274)</p> <p>STM274 STORM DRAINAGE MANHOLE RIM=185.49' INV. IN=179.40' (STM273) INV. IN=161.77' (STM293) INV. IN=175.99' (STM275) INV. IN=180.54' (STM272) INV. IN=158.61' (S) INV. OUT=155.55' (E)</p> <p>STM273 CURB INLET W/STORM MANHOLE RIM=186.50' INV. OUT=181.22' (STM274)</p> <p>STM275 CURB INLET TOP=184.15' INV. OUT=178.74' (STM274)</p> <p>STM10428 CURB INLET W/STORM MANHOLE RIM=87.75' INV. OUT=83.16' (STM10426)</p> <p>STM10426 STORM DRAINAGE MANHOLE RIM=87.94' INV. OUT=83.40' (STM10426)</p> <p>STM10426 CURB INLET W/STORM MANHOLE RIM=87.17' INV. OUT=82.10' (BLIND CONNECTION STM10427-STM10424)</p> <p>STM55 STORM DRAINAGE MANHOLE RIM=86.87' INV. IN=78.04' (STM10246) INV. IN=80.12' (STM10424) INV. IN=79.46' (N) INV. OUT=77.85' (W)</p> <p>STM10428 STORM DRAINAGE MANHOLE RIM=88.05' INV. OUT=81.59' (STM55)</p> <p>STM10437 CURB INLET W/STORM MANHOLE RIM=95.41' INV. IN=90.53' (STM20143) INV. IN=92.21' (STM10436) INV. OUT=90.53' (STM10433)</p> <p>STM10436 CURB INLET W/STORM MANHOLE RIM=95.80' INV. IN=92.63' (E) INV. OUT=92.53' (STM10437)</p> <p>STM10433 CURB INLET W/STORM MANHOLE RIM=90.31' INV. IN=86.01' (STM10432) INV. IN=84.56' (STM10437) INV. OUT=84.36' (STM10435)</p> <p>STM10432 CURB INLET W/STORM MANHOLE RIM=91.05' INV. OUT=86.72' (STM10433)</p> <p>STM10435 STORM DRAINAGE MANHOLE RIM=89.99' INV. IN=85.27' (STM10435) INV. IN=82.94' (STM10433) INV. OUT=82.40' (STM10426)</p> <p>STM10438 CURB INLET W/STORM MANHOLE RIM=121.41' INV. OUT=86.95' (STM10439)</p> <p>STM10439 CURB INLET W/STORM MANHOLE RIM=90.55' INV. IN=86.56' (STM10438) INV. IN=86.55' (STM10441) INV. OUT=86.46' (STM10440)</p> <p>STM10441 METAL GRATE TOP GRATE=90.30' INV. OUT=87.17' (STM10439)</p> <p>STM10440 CURB INLET W/STORM MANHOLE RIM=127.90' INV. OUT=124.53' (STM10408)</p> <p>STM10408 CURB INLET W/STORM MANHOLE RIM=126.52' INV. IN=122.62' (STM10409) INV. OUT=122.19' (STM10407)</p> <p>STM10407 STORM DRAINAGE MANHOLE RIM=124.70' INV. IN=118.97' (STM286) INV. IN=118.76' (STM10408) INV. OUT=118.15' (STM10410)</p>	<p>STM20144 STORM DRAINAGE MANHOLE RIM=130.27' INV. IN=112.17' (W) INV. IN=106.33' (STM10410) INV. OUT=102.01' (STM10412)</p> <p>STM10412 STORM DRAINAGE MANHOLE RIM=96.10' INV. IN=90.10' (STM10410) INV. IN=85.41' (STM10413)</p> <p>STM10413 FLARED END SECTION 36" RCP INV. OUT=82.27'</p> <p>STM10417 CURB INLET W/STORM MANHOLE RIM=111.86' INV. IN=106.87' INV. OUT=106.73' (STM10416)</p> <p>STM10416 CURB INLET W/STORM MANHOLE RIM=109.14' INV. IN=101.21' (STM10417) INV. OUT=100.89' (STM10422)</p> <p>STM10422 STORM DRAINAGE MANHOLE RIM=99.40' INV. IN=96.51' (STM10416) INV. OUT=96.13' (STM53)</p> <p>STM53 STORM DRAINAGE MANHOLE RIM=99.43' INV. IN=95.67' (STM10422) INV. OUT=95.29' (STM52)</p> <p>STM52 STORM DRAINAGE MANHOLE RIM=100.00' INV. IN=95.04' (STM53) INV. IN=96.01' (STM10423) INV. OUT=84.23' (STM61616 DROP INTO CULVERT)</p> <p>STM10423 CURB INLET W/STORM MANHOLE RIM=100.17' INV. OUT=96.31' (STM52)</p> <p>STM61616 15" RCP IN TOP OF BOX CULVERT ELEV. @ GROUND=73.55'</p> <p>STM10426 STORM DRAINAGE MANHOLE RIM=88.13' INV. IN=83.85' (STM10428) INV. IN=80.08' (STM10435) INV. IN=83.57' (STM10427) INV. OUT=79.78' (STM55)</p> <p>STM10428 CURB INLET W/STORM MANHOLE RIM=87.75' INV. OUT=83.16' (STM10426)</p> <p>STM10427 STORM DRAINAGE MANHOLE RIM=87.94' INV. OUT=83.40' (STM10426)</p> <p>STM10426 CURB INLET W/STORM MANHOLE RIM=87.17' INV. OUT=82.10' (BLIND CONNECTION STM10427-STM10424)</p> <p>STM55 STORM DRAINAGE MANHOLE RIM=86.87' INV. IN=78.04' (STM10246) INV. IN=80.12' (STM10424) INV. IN=79.46' (N) INV. OUT=77.85' (W)</p> <p>STM10428 STORM DRAINAGE MANHOLE RIM=88.05' INV. OUT=81.59' (STM55)</p> <p>STM10437 CURB INLET W/STORM MANHOLE RIM=95.41' INV. IN=90.53' (STM20143) INV. IN=92.21' (STM10436) INV. OUT=90.53' (STM10433)</p> <p>STM10436 CURB INLET W/STORM MANHOLE RIM=95.80' INV. IN=92.63' (E) INV. OUT=92.53' (STM10437)</p> <p>STM10433 CURB INLET W/STORM MANHOLE RIM=90.31' INV. IN=86.01' (STM10432) INV. IN=84.56' (STM10437) INV. OUT=84.36' (STM10435)</p> <p>STM10432 CURB INLET W/STORM MANHOLE RIM=91.05' INV. OUT=86.72' (STM10433)</p> <p>STM10435 STORM DRAINAGE MANHOLE RIM=89.99' INV. IN=85.27' (STM10435) INV. IN=82.94' (STM10433) INV. OUT=82.40' (STM10426)</p> <p>STM10438 CURB INLET W/STORM MANHOLE RIM=121.41' INV. OUT=86.95' (STM10439)</p> <p>STM10439 CURB INLET W/STORM MANHOLE RIM=90.55' INV. IN=86.56' (STM10438) INV. IN=86.55' (STM10441) INV. OUT=86.46' (STM10440)</p> <p>STM10441 METAL GRATE TOP GRATE=90.30' INV. OUT=87.17' (STM10439)</p> <p>STM10440 CURB INLET W/STORM MANHOLE RIM=127.90' INV. OUT=124.53' (STM10408)</p> <p>STM10408 CURB INLET W/STORM MANHOLE RIM=126.52' INV. IN=122.62' (STM10409) INV. OUT=122.19' (STM10407)</p> <p>STM10407 STORM DRAINAGE MANHOLE RIM=124.70' INV. IN=118.97' (STM286) INV. IN=118.76' (STM10408) INV. OUT=118.15' (STM10410)</p>	<p>STM20144 STORM DRAINAGE MANHOLE RIM=130.27' INV. IN=122.69' (N) INV. IN=123.14' (E) INV. OUT=122.56' (STM20133)</p> <p>STM20133 STORM DRAINAGE MANHOLE RIM=118.38' INV. IN=113.28' @ 6 (STM20144) INV. OUT=113.28' @ 6 (STM20132)</p> <p>STM20132 STORM DRAINAGE MANHOLE RIM=116.20' INV. IN=110.87' (STM20133) INV. OUT=110.86' (STM211)</p> <p>STM211 STORM DRAINAGE MANHOLE RIM=113.01' INV. IN=107.99' (STM20132) INV. OUT=107.91' (STM20138)</p> <p>STM20138 STORM DRAINAGE MANHOLE RIM=111.98' INV. IN=106.93' (STM211) INV. IN=108.26' (STM20142) INV. IN=106.93' (STM20143)</p> <p>STM20130 CURB INLET W/STORM MANHOLE RIM=114.83' INV. OUT=111.41' (STM20131)</p> <p>STM20131 CURB INLET W/STORM MANHOLE RIM=114.15' INV. IN=110.49' (STM20130) INV. OUT=109.84' (STM20142)</p> <p>STM20142 STORM DRAINAGE MANHOLE RIM=113.77' INV. IN=109.07' (STM20131) INV. IN=108.61' (STM20136) INV. IN=109.47' (STM20137) INV. OUT=108.60' (STM20138) INV. OUT=108.57' (STM20138)</p> <p>STM20136 CURB INLET W/STORM MANHOLE RIM=114.20' INV. IN=108.65' (E) INV. OUT=108.66' (STM20142)</p> <p>STM20137 CURB INLET W/STORM MANHOLE RIM=113.22' INV. OUT=110.02' (STM20142)</p> <p>STM20143 STORM DRAINAGE MANHOLE RIM=99.55' INV. IN=94.35' (STM20138) INV. OUT=94.24' (STM10437)</p> <p>STM20150 STORM DRAINAGE MANHOLE RIM=113.26' INV. IN=114.96' (E) INV. IN=115.06' (N) INV. OUT=110.71' (SE TO DITCH)</p> <p>STM20145 CURB INLET W/STORM MANHOLE RIM=115.36' INV. OUT=110.54' (NW TO DITCH)</p> <p>STM20146 CURB INLET W/STORM MANHOLE RIM=113.32' INV. OUT=108.71' (STM20147)</p> <p>STM20147 CURB INLET W/STORM MANHOLE RIM=112.52' INV. IN=107.40' (STM20146) INV. OUT=107.18' (S)</p> <p>STM20254 STORM DRAINAGE MANHOLE RIM=101.75' INV. IN=96.60' (NW) INV. OUT=95.17' (SE 15" RCP) INV. OUT=90.16' (SE 18" RCP)</p> <p>STM20259 CONC. HEADWALL W/15" RCP INV. OUT=95.24' (STM20254)</p> <p>STM10430 18" RCP FLARED END SECTION INV. OUT=88.91' (SE TO DITCH)</p> <p>STM20148 STORM DRAINAGE MANHOLE RIM=103.69' INV. IN=97.34' (NW) INV. OUT=96.53' (SE 15" RCP) INV. OUT=92.04' (SE 18" RCP)</p> <p>STM20260 CONC. HEADWALL W/15" RCP INV. OUT=96.69' (STM20149)</p> <p>STM10431 18" RCP FLARED END SECTION INV. OUT=91.46' (SE TO DITCH)</p> <p>STM20148 STORM DRAINAGE MANHOLE RIM=115.45' INV. IN=109.85' (NW) INV. OUT=108.82' (SE 15" RCP) INV. OUT=103.62' (SE 18" RCP)</p> <p>STM60982 CONC. HEADWALL W/15" RCP SPILLOVER INV. OUT=109.23' (STM20148)</p> <p>STM60980 4" PVC INV. IN=122.90'</p> <p>STM20146 CURB INLET W/STORM MANHOLE RIM=113.32' INV. OUT=108.71' (STM20147)</p> <p>STM20147 CURB INLET W/STORM MANHOLE RIM=112.52' INV. IN=107.40' (STM20146) INV. OUT=107.18' (S)</p> <p>STM60900 3.7'x2.4' ELLIPTICAL RCP INV. IN=107.48' INV. OUT=106.66' TO DITCH</p>	<p>STM20146 CURB INLET W/STORM MANHOLE RIM=115.35' INV. OUT=110.54' (STM60804)</p> <p>STM60804 15" RCP @ HEADWALL INV. OUT=109.29'</p> <p>STM20150 STORM DRAINAGE MANHOLE RIM=115.04' INV. IN=114.96' (N) INV. IN=115.06' (E) INV. OUT=110.71' (STM60801)</p> <p>STM60801 FLARED END SECTION 18" RCP INV. OUT=109.07'</p> <p>STM20151 CURB INLET W/STORM MANHOLE RIM=122.67' INV. OUT=119.18' (STM20141)</p> <p>STM20141 CURB INLET W/STORM MANHOLE RIM=116.46' INV. IN=112.37' (STM20151) INV. OUT=112.36' (STM20139)</p> <p>STM20139 STORM DRAINAGE MANHOLE @ HEADWALL RIM=115.85' INV. IN=111.32' (NE) INV. IN=111.78' (STM20141) INV. OUT=110.99' (STM20140)</p> <p>STM20140 CURB INLET W/STORM MANHOLE RIM=113.89' INV. OUT=110.65' (STM314)</p> <p>STM20139 STORM DRAINAGE MANHOLE RIM=116.07' INV. IN=111.26' (STM20139) INV. OUT=111.26' (STM60291)</p> <p>STM60291 CONC. HEADWALL W/ 36" RCP INV. OUT=111.24'</p> <p>STM304 STORM DRAINAGE MANHOLE RIM=110.09' INV. IN=105.08' (NW) INV. IN=104.73' (NE) INV. IN=104.90' (SE) INV. OUT=104.54' (STM305)</p> <p>STM305 STORM DRAINAGE MANHOLE RIM=106.05' INV. IN=101.00' (STM304) INV. OUT=100.76' (STM60)</p> <p>STM306 STORM DRAINAGE MANHOLE RIM=105.03' INV. OUT=102.32' (STM60)</p> <p>STM307 STORM DRAINAGE MANHOLE RIM=106.27' INV. OUT=102.56' (STM60)</p> <p>STM60 STORM DRAINAGE MANHOLE RIM=104.66' INV. IN=101.74' (STM307) INV. IN=100.54' (STM305) INV. IN=100.54' (STM306) INV. OUT=100.48' (STM62)</p> <p>STM303 CURB INLET W/STORM MANHOLE RIM=104.97' INV. OUT=101.16' (STM62)</p> <p>STM62 STORM DRAINAGE MANHOLE RIM=104.46' INV. IN=100.13' (STM300) INV. IN=100.13' (STM300) INV. OUT=100.13' (STM60)</p> <p>STM302 YARD INLET TOP GRATE=105.62' INV. OUT=102.49' (STM301)</p> <p>STM301 YARD INLET TOP GRATE=103.84' INV. IN=100.72' (STM302) INV. IN=100.45' (STM300) INV. OUT=100.45' (STM300)</p> <p>STM300 STORM DRAINAGE MANHOLE RIM=104.50' INV. IN=99.84' (STM62) INV. IN=99.68' (STM301) INV. OUT=98.41' (STM310)</p> <p>STM310 STORM DRAINAGE MANHOLE RIM=103.97' INV. IN=99.17' (NW) INV. IN=97.04' (STM311) INV. IN=97.56' (STM300) INV. OUT=97.02' (SW)</p> <p>STM2006 STORM DRAINAGE MANHOLE RIM=119.60' INV. IN=110.00' (STM2006A) INV. OUT=109.79' (STM332)</p> <p>STM332 CURB INLET W/STORM MANHOLE RIM=114.11' INV. IN=104.86' (STM2005) INV. OUT=104.62' (STM61)</p> <p>STM61 STORM DRAINAGE MANHOLE RIM=110.64' INV. IN=103.72' (STM332) INV. OUT=103.34' (STM210)</p> <p>STM210 STORM DRAINAGE MANHOLE RIM=110.84' INV. IN=103.00' (STM61) INV. OUT=102.68' (STM311)</p> <p>STM311 YARD INLET TOP GRATE=107.10' INV. IN=100.62' (STM209) INV. IN=100.61' (STM210) INV. IN=103.10' (STM10444) INV. OUT=108.46' (STM310)</p> <p>STM41044 YARD INLET TOP GRATE=106.12' INV. OUT=104.35' (STM311)</p>	<p>STM334 CURB INLET W/STORM MANHOLE RIM=123.90' INV. OUT=116.65' (STM333)</p> <p>STM333 STORM DRAINAGE MANHOLE RIM=118.85' INV. IN=116.20' (STM334) INV. OUT=116.20' (STM317)</p> <p>STM316 CURB INLET W/STORM MANHOLE RIM=115.04' INV. IN=114.96' (E) INV. IN=115.06' (N) INV. OUT=110.71' (STM60801)</p> <p>STM317 CURB INLET W/STORM MANHOLE RIM=113.90' INV. IN=110.61' (STM316) INV. IN=110.77' (STM333) INV. OUT=110.22' (STM2004)</p> <p>STM331 CURB INLET CURB OPENING=114.08' INV. OUT=112.28' (STM2004)</p> <p>STM2008 STORM DRAINAGE MANHOLE RIM=113.50' INV. IN=110.15' (STM317) INV. IN=110.56' (STM331) INV. OUT=110.02' (STM314)</p> <p>STM315 CURB INLET W/STORM MANHOLE RIM=113.89' INV. OUT=110.65' (STM314)</p> <p>STM314 STORM DRAINAGE MANHOLE RIM=113.27' INV. IN=108.88' (STM315) INV. IN=108.27' (STM2004) INV. OUT=108.27' (STM313)</p> <p>STM313 CURB INLET W/STORM MANHOLE RIM=113.17' INV. IN=108.20' (STM314) INV. IN=104.90' (SE) INV. OUT=104.54' (STM305)</p> <p>STM209 STORM DRAINAGE MANHOLE RIM=112.57' INV. IN=106.41' (STM313) INV. OUT=101.93' (STM311)</p> <p>STM344 YARD INLET TOP GRATE=182.81' INV. IN=179.37' (NW) INV. OUT=178.60' (STM343)</p> <p>STM343 CURB INLET W/STORM MANHOLE RIM=169.13' INV. IN=164.22' (NE) INV. IN=164.23' (STM344) INV. OUT=164.08' (STM341)</p> <p>STM342 METAL GRATE TOP GRATE=168.15' INV. IN=166.54' (STM341) INV. OUT=166.20' (STM339)</p> <p>STM341 CURB INLET W/STORM MANHOLE RIM=165.13' INV. IN=161.90' (STM342) INV. IN=161.89' (STM343) INV. OUT=160.20' (STM339)</p> <p>STM340 YARD INLET TOP GRATE=152.00' INV. IN=148.31' (N) INV. OUT=147.00' (STM339)</p> <p>STM339 CURB INLET W/STORM MANHOLE RIM=151.80' INV. IN=144.07' (STM341) INV. IN=144.39' (STM340) INV. OUT=143.91' (STM335)</p> <p>STM336 YARD INLET TOP GRATE=138.62' INV. IN=133.17' (N) INV. OUT=133.11' (STM335)</p> <p>STM335 CURB INLET W/STORM MANHOLE RIM=128.90' INV. IN=124.20' (STM336) INV. IN=123.73' (STM339) INV. OUT=123.28' (STM2006A)</p> <p>STM336 YARD INLET W/ STORM MANHOLE RIM=119.22' INV. OUT=115.55' (STM2006A)</p> <p>STM337 CURB INLET W/STORM MANHOLE RIM=127.88' INV. IN=115.31' (STM2006A)</p> <p>STM2006A STORM DRAINAGE MANHOLE RIM=127.01' INV. IN=114.97' (STM337) INV. IN=120.43' (STM335) INV. OUT=113.77' (STM2005)</p> <p>STM367 CURB INLET W/STORM MANHOLE RIM=242.01' INV. OUT=234.49' (STM366)</p> <p>STM366 CURB INLET W/STORM MANHOLE RIM=241.39' INV. IN=233.64' (STM367) INV. OUT=233.37' (STM365)</p> <p>STM365 STORM DRAINAGE MANHOLE RIM=239.42' INV. IN=231.47' (STM366) INV. OUT=230.74' (STM360)</p> <p>STM364 CURB INLET TOP=237.31' INV. IN=234.68' (N) INV. OUT=234.08' (STM363)</p> <p>STM363 YARD INLET W/STORM MANHOLE RIM=238.25' INV. IN=233.23' 9STM364) INV. OUT=232.96' (STM362)</p>	<p>STM362 CURB INLET W/STORM MANHOLE RIM=238.71' INV. IN=232.16' (W) INV. IN=231.73' (STM363) INV. OUT=231.61' (STM361)</p> <p>STM361 CURB INLET W/STORM MANHOLE RIM=239.15' INV. IN=231.72' (STM362) INV. OUT=231.18' (STM360)</p> <p>STM360 CURB INLET W/STORM MANHOLE RIM=238.46' INV. IN=230.39' (STM365) INV. IN=230.30' (STM361) INV. OUT=230.01' (STM359)</p> <p>STM353 STORM DRAINAGE MANHOLE RIM=238.02' INVERTS NOT OBTAINED FULL OF DEBRIS (STM355)</p> <p>STM354 CURB INLET W/STORM MANHOLE RIM=238.92' INV. OUT=232.39' (STM355)</p> <p>STM355 STORM DRAINAGE MANHOLE RIM=237.11' INV. IN=232.07' (STM353) INV. IN=232.08' (STM354) INV. OUT=231.96' (STM356)</p> <p>STM356 STORM DRAINAGE MANHOLE RIM=235.51' INV. IN=231.90' (STM355) INV. OUT=231.72' (STM358)</p> <p>STM357 CURB INLET W/STORM MANHOLE RIM=232.01' INV. OUT=228.64' (BLIND CONNECTION STM356-STM358)</p> <p>STM372 CURB INLET W/STORM MANHOLE RIM=237.60' INV. OUT=232.97' (STM372A)</p> <p>STM372A CURB INLET W/STORM MANHOLE RIM=242.25' INV. IN=236.49' (BLIND CONNECTION STM356-STM358)</p> <p>STM358 STORM DRAINAGE MANHOLE RIM=234.45' INV. IN=227.72' (STM356) INV. OUT=227.16' (STM359)</p> <p>STM359 CURB INLET W/STORM MANHOLE RIM=233.82' INV. IN=224.52' (STM358) INV. OUT=223.23' (STM351)</p> <p>STM391 CURB INLET W/STORM MANHOLE RIM=222.08' INV</p>
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- STM909 STORM DRAINAGE MANHOLE
RIM=150.71'
INV. OUT=144.32' (STM510)
FULL OF DEBRIS
- STM510 STORM DRAINAGE MANHOLE
RIM=150.53'
INV. IN=144.68' (STM509)
INV. OUT=144.03' (STM510A)
- STM510A FLARED END SECTION
15" RCP
INV. OUT=144.04' FROM STM510
- STM20278 CURB INLET W/STORM MANHOLE
RIM=149.82'
INV. IN=143.48' (SE)
INV. OUT=143.54' (NW)
- STM20279 STORM DRAINAGE MANHOLE
RIM=149.65'
INV. OUT=143.78' (STM20928)
- STM20928 15" RCP
INV. OUT=141.02' FROM STM20279
- STM20935 72" CMP @ HEADWALL
INV. IN=140.73' TO STM20074
- STM20153 STORM DRAINAGE MANHOLE
RIM=147.91'
INV. IN=142.43' (E) AREA UNDER
CONSTRUCTION
INV. IN=141.05' (SE) AREA UNDER
CONSTRUCTION
INV. OUT=141.19' (STM20152)
SHARED STRUCTURE
- STM20152 CURB INLET W/STORM MANHOLE
RIM=147.77'
INV. OUT=142.92' (BLIND
CONNECTION STM20935-STM20074)
- STM20111 CURB INLET W/STORM MANHOLE
RIM=147.08'
INV. OUT=141.13' (STM20112)
- STM20112 CURB INLET W/STORM MANHOLE
RIM=146.26'
INV. IN=139.67' (STM20111)
INV. OUT=139.67' (BLIND
CONNECTION STM20935-STM20074)
- STM20113 CURB INLET W/STORM MANHOLE
RIM=140.79'
INV. OUT=134.66' (STM20114)
- STM20114 CURB INLET W/STORM MANHOLE
RIM=140.55'
INV. IN=130.85' (STM20113)
INV. IN=128.59' (NW-NEF)
INV. OUT=128.53' (STM20084)
- STM20084 STORM DRAINAGE MANHOLE
RIM=140.76'
INV. IN=127.24' (STM20114)
INV. OUT=127.20' (STM20081)
- STM20081 STORM DRAINAGE MANHOLE
RIM=139.46'
INV. IN=128.32' (UPSTREAM
STRUCTURE NOT FOUND)
INV. IN=125.80' (STM20084)
INV. OUT=124.81' (STM20078)
- STM20074 STORM DRAINAGE MANHOLE
RIM=139.15'
INV. IN=128.32' (UPSTREAM
STRUCTURE NOT FOUND)
INV. IN=125.80' (STM20084)
INV. OUT=124.81' (STM20078)
- STM20078 STORM DRAINAGE MANHOLE
RIM=139.38'
INV. IN=123.93' (STM20081)
INV. IN=123.62' (STM20083)
INV. OUT=123.76' (BLIND
CONNECTION STM20074-STM20079)
- STM20095 STORM DRAINAGE MANHOLE
RIM=149.01'
INV. IN=144.68' (W)
INV. OUT=144.27' (STM20094)
- STM20094 CURB INLET W/STORM MANHOLE
RIM=141.24'
INV. IN=137.18' 9STM20095)
INV. OUT=136.24' (STM20093)
- STM20093 CURB INLET W/STORM MANHOLE
RIM=143.17'
INV. IN=133.40' (STM20094)
BOTTOM OF STRUCTURE=124.27'
(STM20083)
- STM20090 CURB INLET W/STORM MANHOLE
RIM=139.12'
INV. OUT=134.84' (STM20083)
- STM20083 STORM DRAINAGE MANHOLE
RIM=139.20'
INV. IN=132.95' (STM20109)
INV. IN=130.22' (STM20093)
INV. IN=132.58' (STM20090)
INV. OUT=130.17' (STM20078)
- STM20109 CURB INLET W/STORM MANHOLE
RIM=139.57'
INV. OUT=133.78' (STM20083)
- STM20079 STORM DRAINAGE MANHOLE
RIM=137.79'
INV. IN=121.79' (BLIND CONNECTION
STM20074-STM20078)
INV. IN (STM80472) PIPE RECESSED
INV. OUT=121.73' (E-NEF)
- STM20080 STORM DRAINAGE MANHOLE
RIM=137.89'
INV. IN=121.79' (STM60707)
INV. OUT=121.85' (STM20078)
- STM20099 STORM DRAINAGE MANHOLE
RIM=139.63'
CANNOT ACCESS--PAVED SHUT
- STM20106 CURB INLET W/STORM MANHOLE
RIM=137.57'
INV. IN=133.25' (SW @ RETAINING
WALL)
INV. OUT=132.87' (STM20098)
- STM20098 STORM DRAINAGE MANHOLE
RIM=138.61'
INV. IN=131.65' (STM20099)
INV. IN=131.53' (STM20106)
INV. IN=132.96' (E-NEF)
INV. OUT=130.79' (STM60707)
- STM60707 STORM DRAINAGE MANHOLE
RIM=138.97'
UNABLE TO OBTAIN INVERTS -
TRAFFIC
- STM20102 STORM DRAINAGE MANHOLE
RIM=144.98'
INV. IN=140.68' (W)
INV. IN=139.88' (N)
INV. IN=140.63' (E)
INV. OUT=139.28' (STM20100)
- STM20089 CURB INLET W/STORM MANHOLE
RIM=144.25'
INV. IN=138.66' (NW)
INV. OUT=138.60' (STM20100)
- STM20100 STORM DRAINAGE MANHOLE
RIM=142.08'
INV. IN=136.43' (STM20102)
INV. IN=137.41' (STM20089)
INV. OUT=136.42' (STM20101)
- STM20087 CURB INLET W/STORM MANHOLE
RIM=141.53'
INV. OUT=138.61' (STM20088)
- STM20088 CURB INLET W/STORM MANHOLE
RIM=141.66'
INV. IN=138.64' (STM20087)
INV. OUT NOT OBTAINED - FULL
OF DEBRIS
- STM20101 STORM DRAINAGE MANHOLE
RIM=139.87'
INV. IN=133.93' (STM20097)
INV. IN=133.18' (STM20100)
INV. IN=137.14' (STM20088)
INV. OUT=132.87' (STM60707)
- STM20091 CURB INLET W/STORM MANHOLE
RIM=139.00'
INV. OUT=136.10' (STM20097)
- STM20097 STORM DRAINAGE MANHOLE
RIM=139.38'
INV. IN=135.47' (STM20091)
INV. OUT=135.39' (STM20101)
- STM20115 STORM DRAINAGE MANHOLE
RIM=126.10'
INV. IN=110.29' (STM60707)
INV. IN=117.93' (N)
INV. OUT=110.29' (E)
- STM20000 CURB INLET W/STORM MANHOLE
RIM=241.75'
INV. OUT=238.04' (STM20044)
- STM20000 CURB INLET W/STORM MANHOLE
RIM=247.27'
INV. IN =243.77'
INV. OUT=243.66' (STM20000)
- BOX CULVERT A
- BC-A1 12'x20' BOX CULVERT
INV. =73.83'
- BC-A2 12'x10' BOX CULVERT
INV. =74.02'
- BC-A3 12'x10' BOX CULVERT
INV. =74.00'
- BC-A8 12'x10' BOX CULVERT
INV. =74.00'
- BC-AA 12'x10' BOX CULVERT
INV. =74.00'
- BC-AS 9.3' DIAMETER CIRCULAR CULVERT
INV. =73.99'
- BOX CULVERT B
- BC-BB 12'x20' BOX CULVERT
INV. =73.24'
- BC-B7 12'x20' BOX CULVERT
INV. =73.15'
- BC-BB 12'x20' BOX CULVERT
INV. =73.28'
- BC-BB 48" RCP IN CULVERT WALL
INV.=73.39' (NEF)
- STM42221 30" DIA. OPENING @ CONC.
HEADWALL
INV. IN=90.59' TO STM53180
- STM53180 24" RCP @ CONC. HEADWALL
INV. OUT=87.89' (STM42221)
- STM20233 STORM DRAIN MANHOLE
RIM=137.57'
INV. IN=103.98'
- STM60601 CURB INLET W/STORM MANHOLE
RIM=195.38'
INV. IN=186.32'
INV. OUT=186.28' (STM60703)
- STM60571 CURB INLET W/STORM MANHOLE
RIM=193.87'
INV. IN=189.02' (STM60684)
INV. OUT=186.61' (STM60601)
- STM60703 STORM DRAIN MANHOLE
RIM=194.87'
INV. OUT=186.11' (STM470)
- STM60684 CURB INLET W/STORM MANHOLE
RIM=201.65'
INV. =195.05' (C/L STRUCTURE)
- STM40002 METAL GRATE
RIM=129.40'
INV. OUT=122.05' (STM40017)
- STM40010 METAL GRATE
RIM=128.41'
INV. OUT=125.91' (STM40016)
- STM40015 METAL GRATE
RIM=130.49'
INV. OUT=FULL OF DEBRIS
- STM40016 STORM DRAINAGE MANHOLE
RIM=129.33'
INV. IN=120.11' (STM40017)
INV. IN=125.55' (STM40010)
INV. OUT=120.03' (STM POS-1)
- STM40017 STORM DRAINAGE MANHOLE
RIM=129.58'
INV. IN=124.14' (STM40018)
INV. IN=120.75' (STM40002)
INV. OUT=120.75' (STM40016)
- STM40018 STORM DRAINAGE MANHOLE
RIM=129.11'
INV. OUT=127.41' (STM40017)
- STM POS-1 STORM DRAINAGE MANHOLE
NOT FOUND
(APPROX. LOC. PER RECORD)
- STM40016 STORM DRAINAGE INLET
RIM=120.41'
INV. OUT=114.04'
- STM80970 STORM DRAIN MANHOLE
RIM=137.09'
INV. OUT=130.02' (STM80971)
- STM80971 CURB INLET W/STORM MANHOLE
RIM=138.17'
INV. IN=136.26' (SW)
INV. IN=129.85' (STM80970)
INV. OUT=129.60' (STM80472)
- STM80472 CURB INLET W/STORM MANHOLE
RIM=137.41'
INV. IN=132.29' (STM80861)
INV. IN=129.21' (STM80971)
INV. OUT=128.89' (STM20079)
- STM80861 STORM DRAIN MANHOLE
RIM=138.11'
(NO ACCESS, LID SEALED)
- STM80515 CURB INLET W/STORM MANHOLE
RIM=138.82'
INV. OUT=134.54' (STM81407)
- STM83113 CURB INLET W/STORM MANHOLE
RIM=138.96'
INV. OUT=135.88' (STM81407)
- STM81407 STORM DRAIN MANHOLE
RIM=138.64'
INV. IN=134.11' (STM80515)
INV. @ C/L=133.91' (STM83113, STM20074)
- STM82858 CONC. HEADWALL
TOP=150.31'
INV. =148.59'
- STM82888 CONC. HEADWALL W/15" RCP
TOP=151.00'
INV. =148.78' (STM50089)
- STM50109 STORM DRAIN MANHOLE
RIM=177.97'
INV. OUT=170.62' (STM50089)
- STM50089 STORM DRAINAGE MANHOLE
RIM=170.62'
INV. IN=164.92' (STM82558)
INV. IN=166.02' (STM50109)
INV. OUT=164.62' (STM82888)
- STM82558 STORM DRAINAGE MANHOLE
RIM=178.76'
INV. IN=168.14' (STM50148)
INV. IN=173.66' (NE)
INV. IN=171.92' (STM82517)
INV. OUT=167.91' (STM50089)
- STM82517 STORM GRATE
RIM=175.01'
INV. OUT=172.51' (STM82558)
- STM82544 STORM DRAINAGE MANHOLE
RIM=182.62'
INV. IN=178.47' (STM83108)
INV. OUT=172.12' (NEF)
- STM83108 STORM GRATE
RIM=185.51'
INV. IN=180.88' (NEF)
INV. OUT=179.88' (STM82542)
- STM50148 STORM DRAIN MANHOLE
RIM=186.33'
INV. OUT=175.13' (STM82558)
- STM82778 FLARED END SECTION
INV. =154.20'
- STM50150 CURB INLET W/ STORM MANHOLE
RIM=189.75'
INV. OUT=185.40' (STM82016)
- STM82016 CURB INLET W/ STORM MANHOLE
RIM=186.99'
INV. IN=182.54' (STM60150)
INV. OUT=181.04' (STM493)
- STM50014 STORM DRAINAGE INLET
RIM=168.30'
INV. OUT=167.04' (STM82157)
- STM82157 STORM DRAINAGE INLET
RIM=167.73'
INV. IN=164.38' (STM50014)
INV. OUT=164.18' (STM82153)
- STM82153 STORM DRAINAGE INLET
RIM=168.39'
INV. IN=163.29' (STM82157)
INV. IN=161.39' (SW)
INV. OUT=161.19' (STM82778)
- STM33416 CURB INLET W/STORM MANHOLE
RIM=120.41'
INV. OUT=114.89' (STM316)

90% DESIGN PHASE



CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

REVISIONS	DESCRIPTION
DATE	BY

ALEXANDRIA PROJECT NO.:	110104122
DATE OF PLAN ISSUANCE:	N/A
CONSULTANT PROJECT ID.:	N/A
DESIGNED BY:	EJD DATE: 4/5/24
DRAWN BY:	NS DATE: 4/5/24
CHECKED BY:	EJD DATE: 4/5/24
APPROVED BY:	

WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

EXISTING DRAINAGE
DESCRIPTIONS

Plotted By: Waring, Megan Sheet Set: West End Transitway - Phase 1 Layout: C-009 ROW DATA SHEET July 11, 2024 12:30:04pm K:\NVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\ROW DATA SHEET.dwg

PROPERTY #	LANDOWNER	TAX MAP NO.	SHEET NO.	EASEMENTS								PROFFERS
				TOTAL	FEE TAKING	PRESCRIPTIVE R/W	FEE REMAINDER	PERMANENT STREET EASEMENT	PERMANENT DRAINAGE EASEMENT	TEMPORARY CONSTRUCTION EASEMENT	PERMANENT UTILITY EASEMENT	
				SQ. FT.	SQ. FT.	SQ. FT.	SQ. FT.	SQ. FT.	SQ. FT.	SQ. FT.	SQ. FT.	
007	CONNECTICUT STORAGE FUND	67.04-01-15	C-103	105,593	860	-	104,733	-	-	1,185	-	NO
008	SPARTA RESTAURANT CORPORATION	67.02-01-03	C-103	105,593	953	-	104,640	-	-	683	-	NO
013	SAUL HOLDINGS LIMITED PARTNERSHIP	47.04-06-07	C-104 & C-105	417,726	484	-	417,242	-	-	3,078	-	NO
014	ALEXANDRIA LAND CONDOMINIUM	57.02-0A-00	C-104	1,531,648	4,128	-	1,527,520	-	-	6,482	-	NO
017	PLACE ONE CONDOMINIUM	38.03-0A-00	C-106	241,135	-	-	241,135	-	-	25	-	NO
018	HOLMES RUN PARK	-	C-106	-	-	-	-	-	-	48	-	NO
019	BROOKVILLE APARTMENTS LTD PRTNRSH	38.01-13-01	C-107	9,723	133	-	9,590	-	-	185	-	NO
020	BROOKVILLE APARTMENTS LTD PRTNRSH	38.01-02-02	C-107	10,569	71	-	10,498	-	-	321	-	NO
024	WILLOW RUN APARTMENTS MARK CENTER OWNER LLC	38.02-02-07	C-108	296,874	2,060	-	294,814	-	-	1,003	-	NO
027	BROOKDALE APARTMENTS MARK CENTER OWNER, LLC	29.01-01-01	C-109	445,018	-	-	445,018	-	-	78	-	NO
028	LYNBROOK APARTMENTS	29.03-01-06	C-109	2,639,693	4,128	-	2,635,565	-	-	7,532	150	NO
029	CITY OF ALEXANDRIA	28.02-03-34	C-109	865,722	168	-	865,554	-	-	214	-	NO
031	THE SHOPS AT MARK CENTER OWNER LLC	19.03-01-03	C-111	245,793	1,053	-	244,740	-	-	1,607	-	NO
032	1500 BEAUREGARD PROPERTY OWNER LLC	19.02-01-01	C-111	122,997	-	-	122,997	-	-	62	-	NO
033	EQR-TOWN SQUARE AT MILLBROOK, LLC	19.01-03-12	C-111	493,054	369	-	492,683	-	-	380	-	NO
034	THE ALEXANDRIA CITY SCHOOL BOARD	19.01-04-16	C-111	52,112	2,153	-	49,959	-	-	1,357	-	NO
035	VIRGINIA METHODIST HOME FOR THE AGED INC.	11.01-01-03	C-112	152,460	1,989	-	150,471	-	-	952	-	NO
038	UDR NEWPORT VILLAGE, LLC	11.01-01-02	C-112 & C-113	884,280	1,577	-	882,703	-	-	2,244	-	YES
039	COMMONWEALTH OF VIRGINIA	03.03-01-13	C-113	558,530	1,030	-	557,500	-	-	875	-	NO
040	COMMONWEALTH OF VIRGINIA	03.03-01-12	C-113	596,419	-	-	596,419	-	-	97	-	NO
041	UDR NEWPORT VILLAGE, LLC	11.02-01-01	C-113	496,758	70	-	496,688	-	-	514	-	NO
042	LARCHMONT VILLAGE APARTMENTS, LLC	03.04-01-11	C-114	359,161	-	-	359,161	-	-	1,927	-	NO
043	BRE SOUTH POOLED OFFICE OWNER, LLC	03.02-01-19	C-114	155,687	53	-	155,634	-	-	447	-	NO
	TOTAL AREA			10,786,545	21,279		10,765,266			31,296	150	

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY

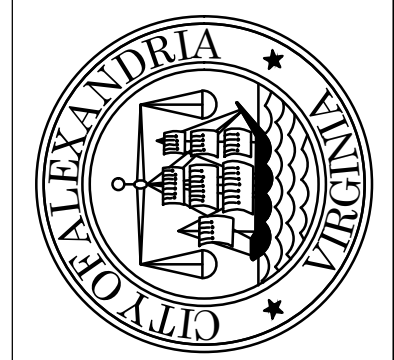
WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

ALEXANDRIA PROJECT NO.: 110104122
 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: EJD DATE: 4/5/24
 DRAWN BY: MAT DATE: 4/5/24
 CHECKED BY: EJD DATE: 4/5/24
 APPROVED BY: _____ DATE: _____

REVISIONS	DESCRIPTION
DATE	
BY	

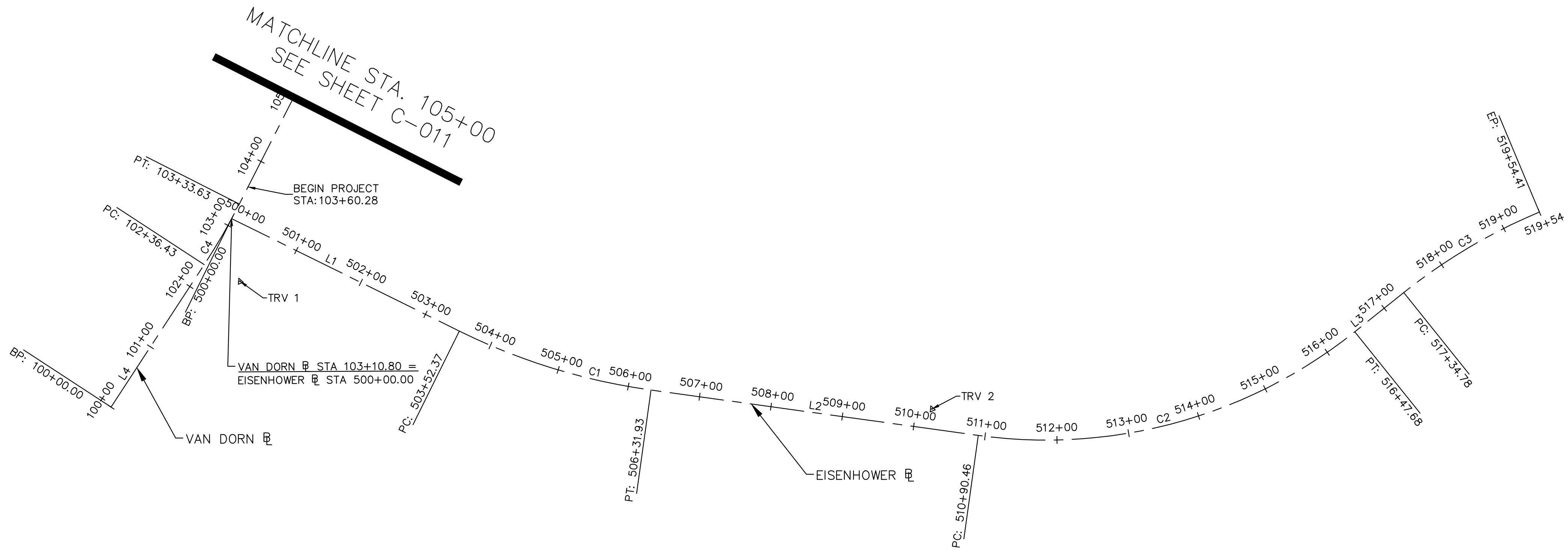
CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313



RIGHT OF WAY DATA SHEET

SHEET C-009
 SCALE N/A

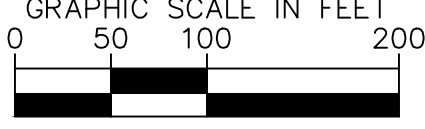
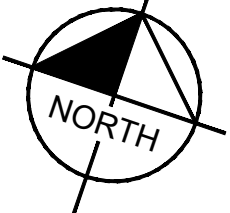
Plotted By: Waring, Megan Sheet Set: West End Transitway - Phase 1 Layout: C-010 CONSTRUCTION ALIGNMENT DATA July 11, 2024 12:30:23pm K:\NVA_Transit\110104122_West_End_Transitway_Design\CADD\PlanSheets\CONSTRUCTION ALIGNMENT DATA.dwg



EISENHOWER R.D.				
NO.	DELTA OR BRG	RADIUS	LENGTH	REMARKS
C1	$\Delta=18^{\circ} 24' 40''$	870.00'	279.56'	
C2	$\Delta=46^{\circ} 36' 37''$	684.96'	557.22'	
C3	$\Delta=16^{\circ} 00' 13''$	786.33'	219.64'	
L1	S $82^{\circ} 32' 49''$ E		352.37'	
L2	N $79^{\circ} 02' 32''$ E		458.53'	
L3	N $32^{\circ} 25' 55''$ E		87.10'	

VAN DORN R.D.				
NO.	DELTA OR BRG	RADIUS	LENGTH	REMARKS
C4	$\Delta=6^{\circ} 11' 18''$	899.95'	97.20'	
L4	N $14^{\circ} 18' 21''$ E		236.43'	

TRAVERSE POINT LOCATION TABLE			
POINT	NORTHING	EASTING	ELEVATION
TRV 1	6976914.44	11872160.41	119.48'
TRV 2	6977057.10	11873126.44	132.94'



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

**CONSTRUCTION
ALIGNMENT DATA SHEET**

SHEET
C-010
SCALE 1" = 100'

ALEXANDRIA PROJECT NO.: 110104122
 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: EJD DATE: 4/5/24
 DRAWN BY: SZ DATE: 4/5/24
 CHECKED BY: EJD DATE: 4/5/24
 APPROVED BY: _____ DATE: _____

REVISIONS	DESCRIPTION
BY	
DATE	

CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313



Plotted By: Waring, Megan Sheet: West End Transitway - Phase 1 CONSTRUCTION ALIGNMENT DATA July 11, 2024 12:30:28pm K:\NVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\CONSTRUCTION ALIGNMENT DATA.dwg

MATCHLINE STA. 105+00
SEE SHEET C-010

MATCHLINE STA. 132+00
SEE THIS SHEET

MATCHLINE STA. 132+00
SEE THIS SHEET

MATCHLINE STA. 154+00
SEE SHEET C-012

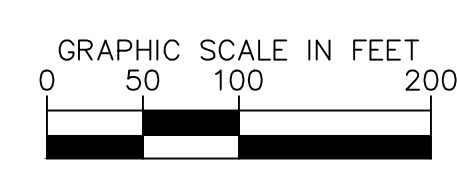
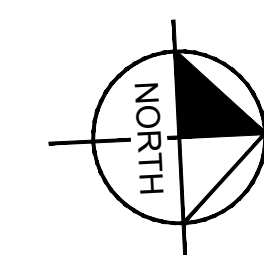
METRO ROAD				
NO.	DELTA OR BRG	RADIUS	LENGTH	REMARKS
C26	Δ=8° 07' 03"	51.85'	7.35'	
C27	Δ=34° 35' 59"	108.84'	65.73'	
C28	Δ=39° 34' 45"	130.28'	89.99'	
L28	N 81°52'58" W		121.41'	
L29	N 73°45'55" W		69.93'	

VAN DORN				
NO.	DELTA OR BRG	RADIUS	LENGTH	REMARKS
C5	Δ=13° 03' 10"	3799.77'	865.65'	
C6	Δ=5° 23' 44"	599.96'	56.50'	
C7	Δ=13° 35' 01"	2499.85'	592.66'	
C8	Δ=22° 00' 53"	1999.88'	768.41'	
L5	N 8°07'03" E		578.53'	
L6	N 4°56'08" W		391.13'	
L7	N 0°27'37" E		69.32'	
L8	N 14°02'38" E		1758.69'	

PICKETT				
NO.	DELTA OR BRG	RADIUS	LENGTH	REMARKS
L30	S 89°48'48" W		350.00'	

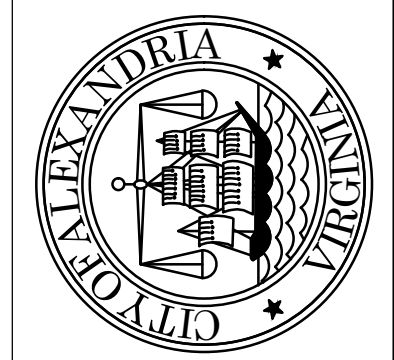
STEVENSON				
NO.	DELTA OR BRG	RADIUS	LENGTH	REMARKS
C29	Δ=34° 39' 54"	150.00'	90.75'	
L31	N 70°31'04" W		229.14'	

TRAVERSE POINT LOCATION TABLE				
POINT	NORTHING	EASTING	ELEVATION	
TRV3	6977458.02	11871878.59	129.34'	
TRV4	6977372.64	11872076.10	129.50'	
TRV5	6977515.97	11872277.81	117.06'	
TRV6	6977704.72	11872223.09	131.41'	
TRV7	6977773.86	11872246.58	104.33'	
TRV8	6977804.30	11872443.21	102.54'	
TRV9	6977881.43	11872088.60	101.10'	
TRV10	6978489.86	11872170.31	79.16'	
TRV11	6977971.52	11872329.21	97.69'	
TRV12	6978511.92	11872356.35	77.98'	
TRV13	6978771.97	11872257.19	91.28'	
TRV14	6979422.76	11872292.06	104.22'	
TRV15	6980059.14	11872418.84	131.17'	
TRV16	6980954.69	11872619.45	176.05'	
TRV17	6981444.65	11872710.91	207.31'	
TRV18	6981910.69	11872966.55	216.24'	



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE



CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

REVISIONS	DATE	DESCRIPTION

ALEXANDRIA PROJECT NO.: 110104122
DATE OF PLAN ISSUANCE: N/A
CONSULTANT PROJECT ID: N/A
DESIGNED BY: EJD DATE: 4/5/24
DRAWN BY: SZ DATE: 4/5/24
CHECKED BY: EJD DATE: 4/5/24
APPROVED BY: _____ DATE: _____

**CONSTRUCTION
ALIGNMENT DATA SHEET**

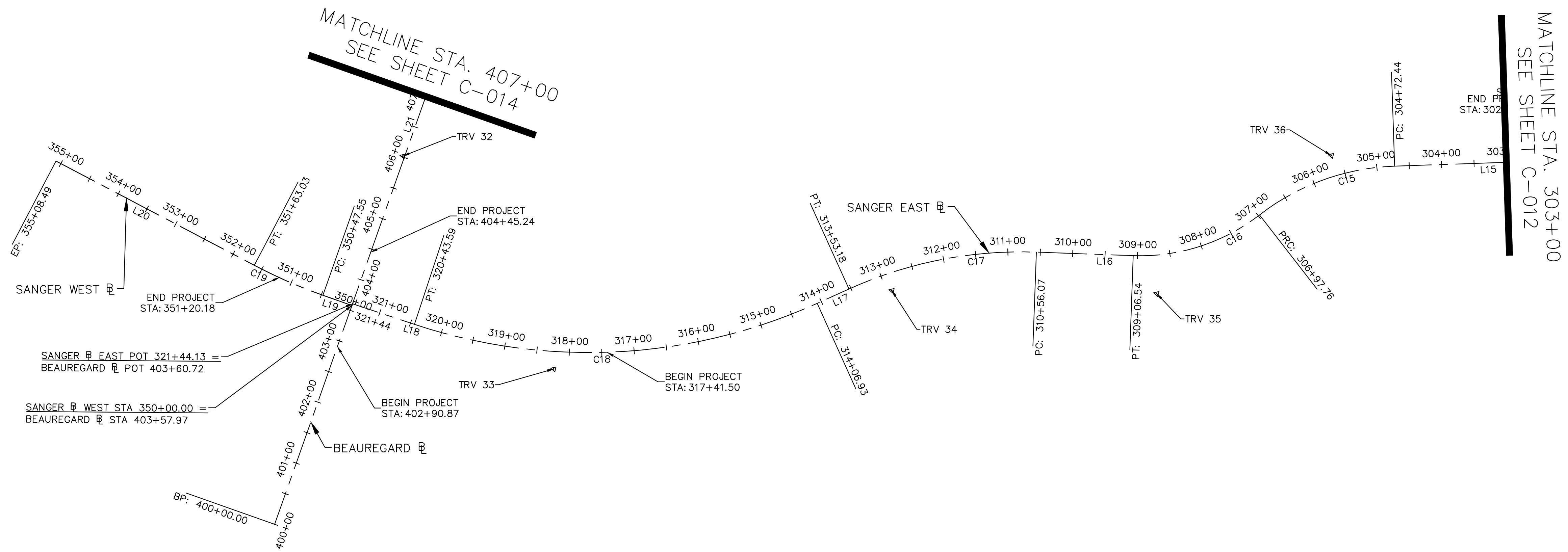
SHEET
C-011
SCALE 1" = 100'

Plotted By: Waring, Megan Sheet Set: West End Transitway - Phase 1 Layout: C-013 CONSTRUCTION ALIGNMENT DATA July 11, 2024 12:30:32pm K:\NVA_Transit\110104122_West_End_Transitway_Design\CADD\PlanSheets\CONSTRUCTION ALIGNMENT DATA.dwg

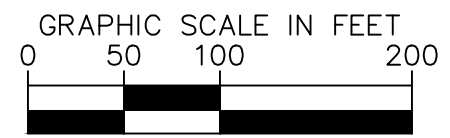
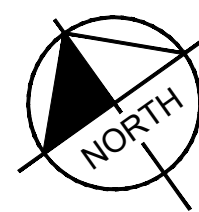
SANGER EAST				
NO.	DELTA OR BRG	RADIUS	LENGTH	REMARKS
C15	$\Delta=35^{\circ} 51' 38''$	360.00'	225.32'	
C16	$\Delta=39^{\circ} 52' 25''$	300.00'	208.78'	
C17	$\Delta=26^{\circ} 23' 40''$	644.96'	297.11'	
C18	$\Delta=42^{\circ} 40' 01''$	854.95'	636.66'	
L15	N $56^{\circ}27'20''$ W		472.44'	
L16	N $52^{\circ}26'33''$ W		149.53'	
L17	N $78^{\circ}50'13''$ W		53.75'	
L18	N $36^{\circ}10'12''$ W		100.54'	

SANGER WEST				
NO.	DELTA OR BRG	RADIUS	LENGTH	REMARKS
C19	$\Delta=8^{\circ} 16' 14''$	800.00'	115.48'	
L19	N $35^{\circ}03'29''$ W		47.55'	
L20	N $26^{\circ}47'15''$ W		345.46'	

BEAUREGARD				
NO.	DELTA OR BRG	RADIUS	LENGTH	REMARKS
L21	N $54^{\circ}56'31''$ E		1192.51'	



TRAVERSE POINT LOCATION			
POINT	NORTHING	EASTING	ELEVATION
TRV32	6987052.59	11873520.32	120.47'
TRV33	6986650.24	11873522.78	105.39'
TRV34	6986446.17	11873519.15	113.11'
TRV35	6986205.24	11874343.76	110.07'
TRV36	6986222.24	11874686.81	118.09'



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

REVISIONS	DESCRIPTION
DATE	BY

ALEXANDRIA PROJECT NO.: 110104122
 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: EJD DATE: 4/5/24
 DRAWN BY: SZ DATE: 4/5/24
 CHECKED BY: EJD DATE: 4/5/24
 APPROVED BY: _____ DATE: _____

**CONSTRUCTION
ALIGNMENT DATA SHEET**

SHEET
C-013
SCALE 1" = 100'

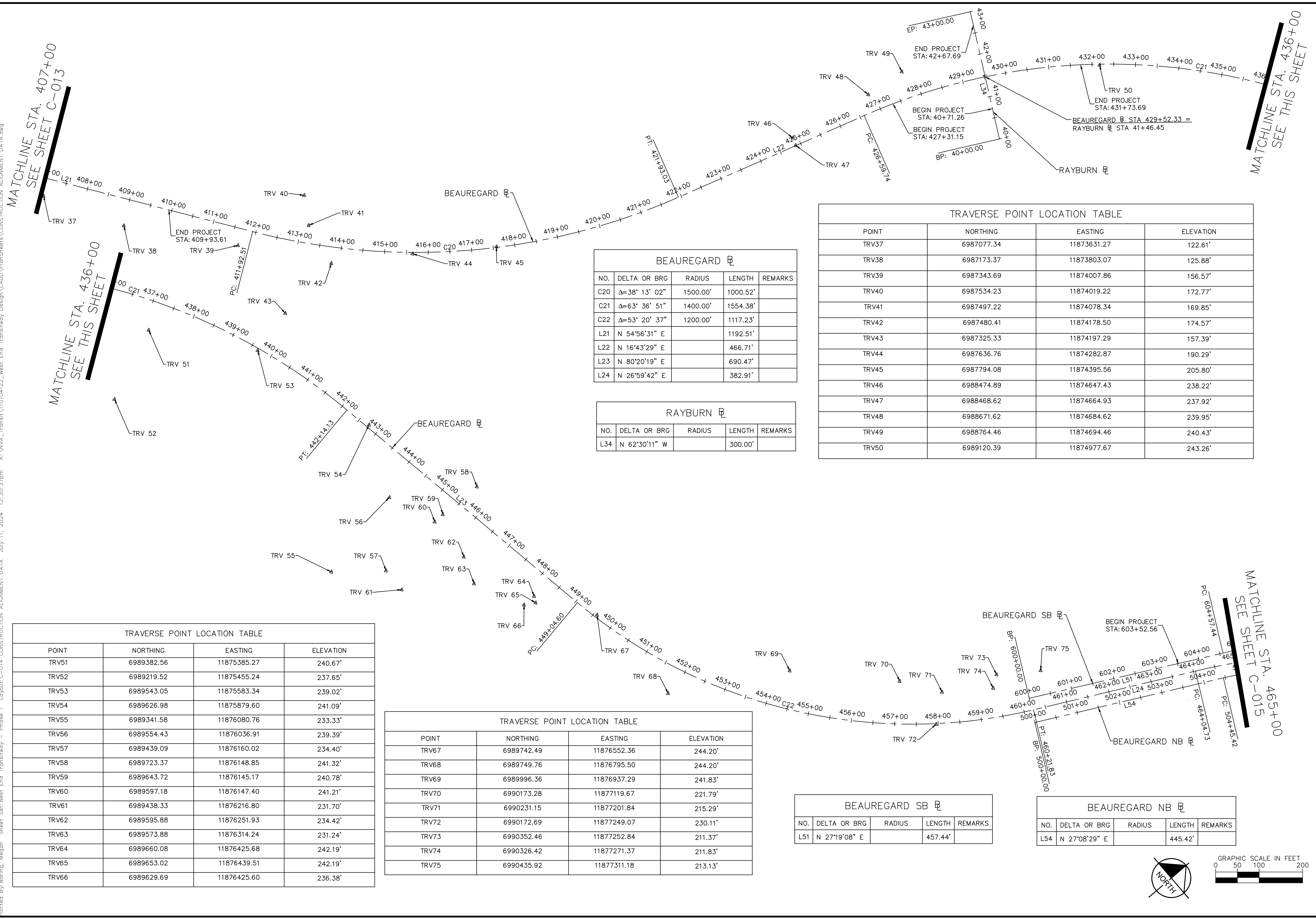
CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313



MATCHLINE STA. 303+00
SEE SHEET C-012

MATCHLINE STA. 407+00
SEE SHEET C-014

Plotted By: Worring, Megan Sheet: Sect: West End Transitway - Phase 1 Layout: C-014 CONSTRUCTION ALIGNMENT DATA July 11, 2024 12:30:37pm K:\NVA_Traffic\110104122_West_End_Transitway_Design\CADD\PlanSheets\CONSTRUCTION ALIGNMENT DATA.dwg



TRAVERSE POINT LOCATION TABLE			
POINT	NORTHING	EASTING	ELEVATION
TRV51	6989382.56	11875385.27	240.67'
TRV52	6989219.52	11875455.24	237.65'
TRV53	6989543.05	11875583.34	239.02'
TRV54	6989626.98	11875879.60	241.09'
TRV55	6989341.58	11876080.76	233.33'
TRV56	6989554.43	11876036.91	239.39'
TRV57	6989439.09	11876160.02	234.40'
TRV58	6989723.37	11876148.85	241.32'
TRV59	6989643.72	11876145.17	240.78'
TRV60	6989597.18	11876147.40	241.21'
TRV61	6989438.33	11876216.80	231.70'
TRV62	6989595.88	11876251.93	234.42'
TRV63	6989573.88	11876314.24	231.24'
TRV64	6989660.08	11876425.68	242.19'
TRV65	6989653.02	11876439.51	242.19'
TRV66	6989629.69	11876425.60	236.38'

TRAVERSE POINT LOCATION TABLE			
POINT	NORTHING	EASTING	ELEVATION
TRV67	6989742.49	11876552.36	244.20'
TRV68	6989749.76	11876795.50	244.20'
TRV69	6989996.36	11876937.29	241.83'
TRV70	6990173.28	11877119.67	221.79'
TRV71	6990231.15	11877201.84	215.29'
TRV72	6990172.69	11877249.07	230.11'
TRV73	6990352.46	11877252.84	211.37'
TRV74	6990326.42	11877271.37	211.83'
TRV75	6990435.92	11877311.18	213.13'

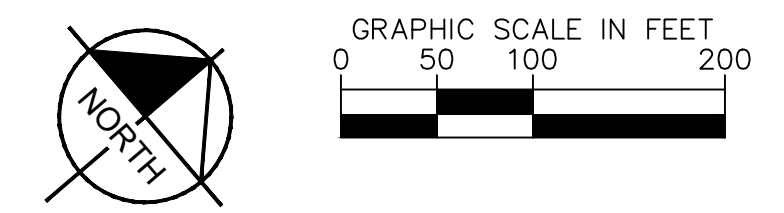
BEAUREGARD				
NO.	DELTA OR BRG	RADIUS	LENGTH	REMARKS
C20	Δ=38° 13' 02"	1500.00'	1000.52'	
C21	Δ=63° 36' 51"	1400.00'	1554.38'	
C22	Δ=53° 20' 37"	1200.00'	1117.23'	
L21	N 54°56'31" E		1192.51'	
L22	N 16°43'29" E		466.71'	
L23	N 80°20'19" E		690.47'	
L24	N 26°59'42" E		382.91'	

RAYBURN				
NO.	DELTA OR BRG	RADIUS	LENGTH	REMARKS
L34	N 62°30'11" W		300.00'	

TRAVERSE POINT LOCATION TABLE			
POINT	NORTHING	EASTING	ELEVATION
TRV37	6987077.34	11873631.27	122.61'
TRV38	6987173.37	11873803.07	125.88'
TRV39	6987343.69	11874007.86	156.57'
TRV40	6987534.23	11874019.22	172.77'
TRV41	6987497.22	11874078.34	169.85'
TRV42	6987480.41	11874178.50	174.57'
TRV43	6987325.33	11874197.29	157.39'
TRV44	6987636.76	11874282.87	190.29'
TRV45	6987794.08	11874395.56	205.80'
TRV46	6988474.89	11874647.43	238.22'
TRV47	6988468.62	11874664.93	237.92'
TRV48	6988671.62	11874684.62	239.95'
TRV49	6988764.46	11874694.46	240.43'
TRV50	6989120.39	11874977.67	243.26'

BEAUREGARD SB				
NO.	DELTA OR BRG	RADIUS	LENGTH	REMARKS
L51	N 27°19'08" E		457.44'	

BEAUREGARD NB				
NO.	DELTA OR BRG	RADIUS	LENGTH	REMARKS
L54	N 27°08'29" E		445.42'	



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

90% DESIGN PHASE

REVISIONS	DESCRIPTION

ALEXANDRIA PROJECT NO.: 110104122

DATE OF PLAN ISSUANCE: N/A

CONSULTANT PROJECT ID: N/A

DESIGNED BY: EJD DATE: 4/5/24

DRAWN BY: SZ DATE: 4/5/24

CHECKED BY: EJD DATE: 4/5/24

APPROVED BY: _____ DATE: _____

CONSTRUCTION
ALIGNMENT DATA SHEET

SHEET C-014

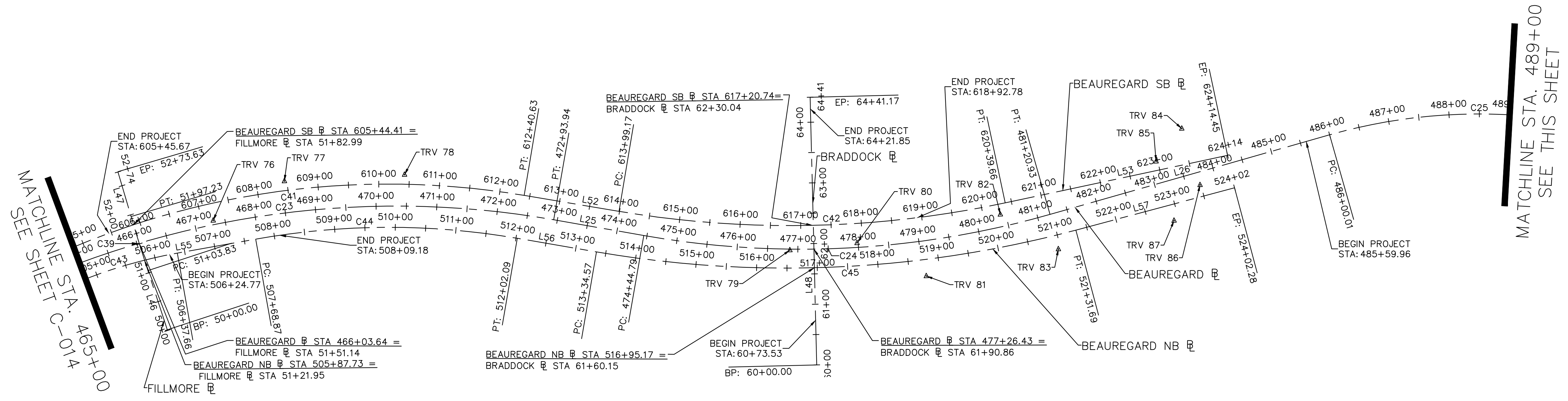
SCALE 1" = 100'

MATCHLINE STA. 407+00
SEE SHEET C-013

MATCHLINE STA. 436+00
SEE THIS SHEET

MATCHLINE STA. 465+00
SEE SHEET C-015

Plotted By: Waring, Megan Sheet Set: West End Transitway - Phase 1 Layout: C-015 CONSTRUCTION ALIGNMENT DATA July 11, 2024 12:30:43pm K:\NVA_Traffic\110104122_West_End_Transitway_Design\CADD\PlanSheets\CONSTRUCTION ALIGNMENT DATA.dwg



BEAUREGARD ☐				
NO.	DELTA OR BRG	RADIUS	LENGTH	REMARKS
C23	Δ=33° 57' 55"	1500.00'	889.21'	
C24	Δ=25° 49' 36"	1500.00'	676.14'	
C25	Δ=36° 41' 52"	900.00'	576.45'	
L25	N 60°57'37" E		150.85'	
L26	N 35°08'01" E		479.07'	
L27	N 71°49'53" E		530.30'	

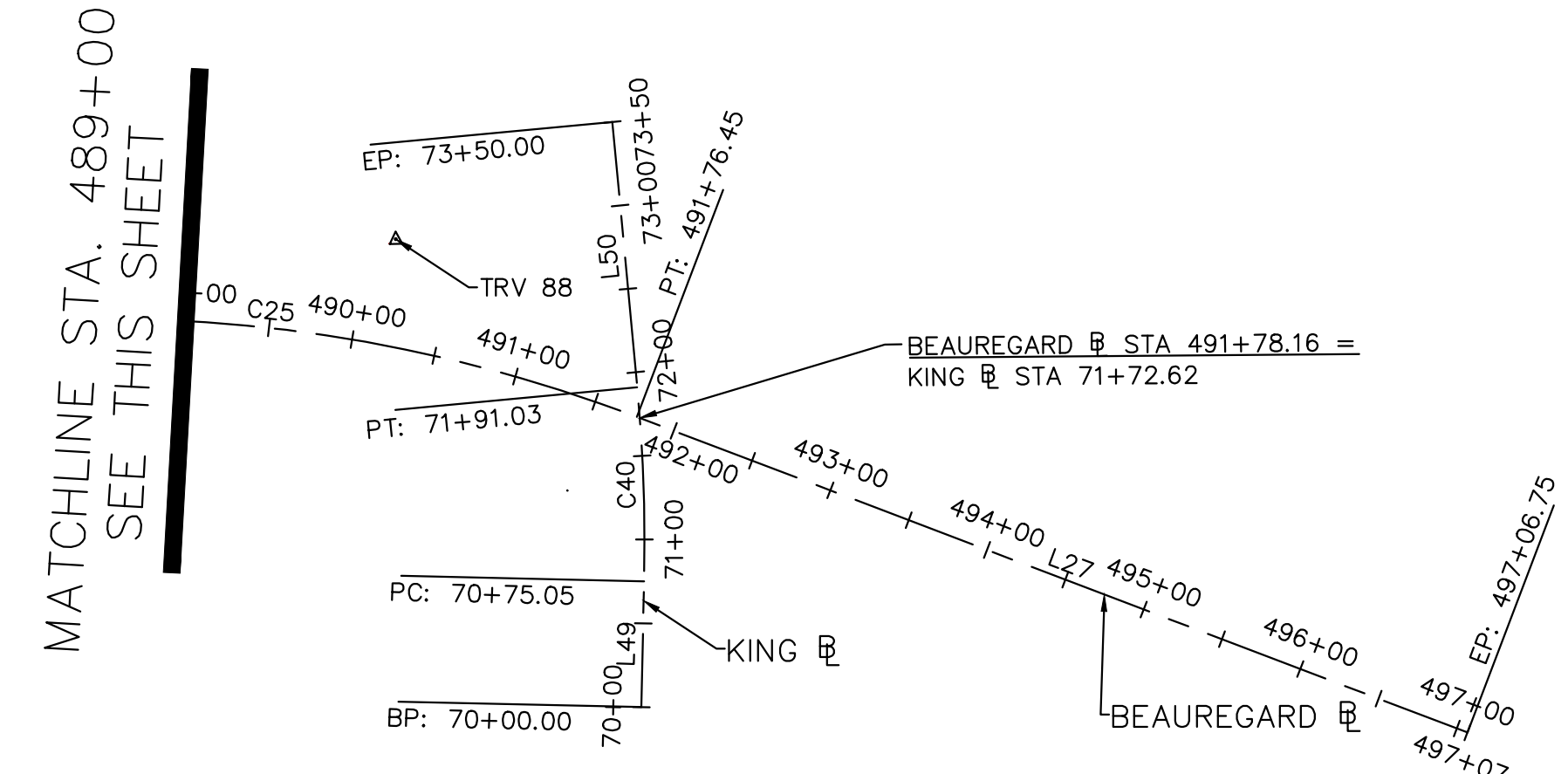
FILLMORE ☐				
NO.	DELTA OR BRG	RADIUS	LENGTH	REMARKS
C39	Δ=1° 47' 02"	3000.00'	93.40'	
L46	N 57°08'05" W		103.83'	
L47	N 55°21'03" W		76.40'	

BRADDOCK ☐				
NO.	DELTA OR BRG	RADIUS	LENGTH	REMARKS
L48	N 40°22'55" W		441.17'	

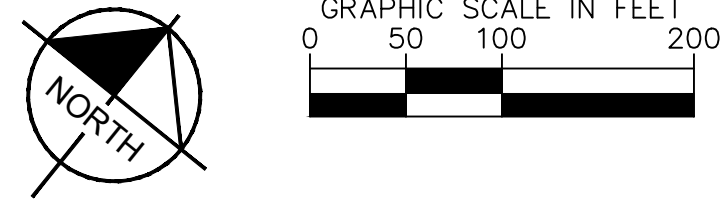
KING ☐				
NO.	DELTA OR BRG	RADIUS	LENGTH	REMARKS
C40	Δ=6° 38' 41"	1000.00'	115.97'	
L49	N 37°41'45" W		75.05'	
L50	N 44°20'26" W		158.97'	

BEAUREGARD SB ☐				
NO.	DELTA OR BRG	RADIUS	LENGTH	REMARKS
C41	Δ=33° 14' 21"	1350.00'	783.18'	
C42	Δ=21° 35' 13"	1700.00'	640.49'	
L52	N 60°33'29" E		158.54'	
L53	N 38°58'16" E		374.79'	

BEAUREGARD NB ☐				
NO.	DELTA OR BRG	RADIUS	LENGTH	REMARKS
C43	Δ=13° 46' 05"	800.00'	192.24'	
C44	Δ=19° 51' 26"	1250.00'	433.22'	
C45	Δ=24° 41' 15"	1850.00'	797.12'	
L55	N 40°54'34" E		131.21'	
L56	N 60°46'00" E		132.48'	
L57	N 36°04'46" E		270.59'	



TRAVERSE POINT LOCATION TABLE			
POINT	NORTHING	EASTING	ELEVATION
TRV76	6990982.34	11877716.18	188.23'
TRV77	6991106.65	11877766.63	185.36'
TRV78	6991239.43	11877913.81	179.51'
TRV79	6991542.22	11878485.85	160.84'
TRV80	6991621.04	11878564.45	156.71'
TRV81	6991650.44	11878687.42	154.97'
TRV82	6991806.18	11878718.46	150.98'
TRV83	6991821.85	11878828.72	150.39'
TRV84	6992104.31	11878861.90	145.84'
TRV85	6992035.63	11878863.03	148.86'
TRV86	6992050.96	11878943.77	147.22'
TRV87	6991978.37	11878947.42	148.75'
TRV88	6992578.59	11879334.75	141.31'



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

REVISIONS
 BY: _____
 DATE: _____

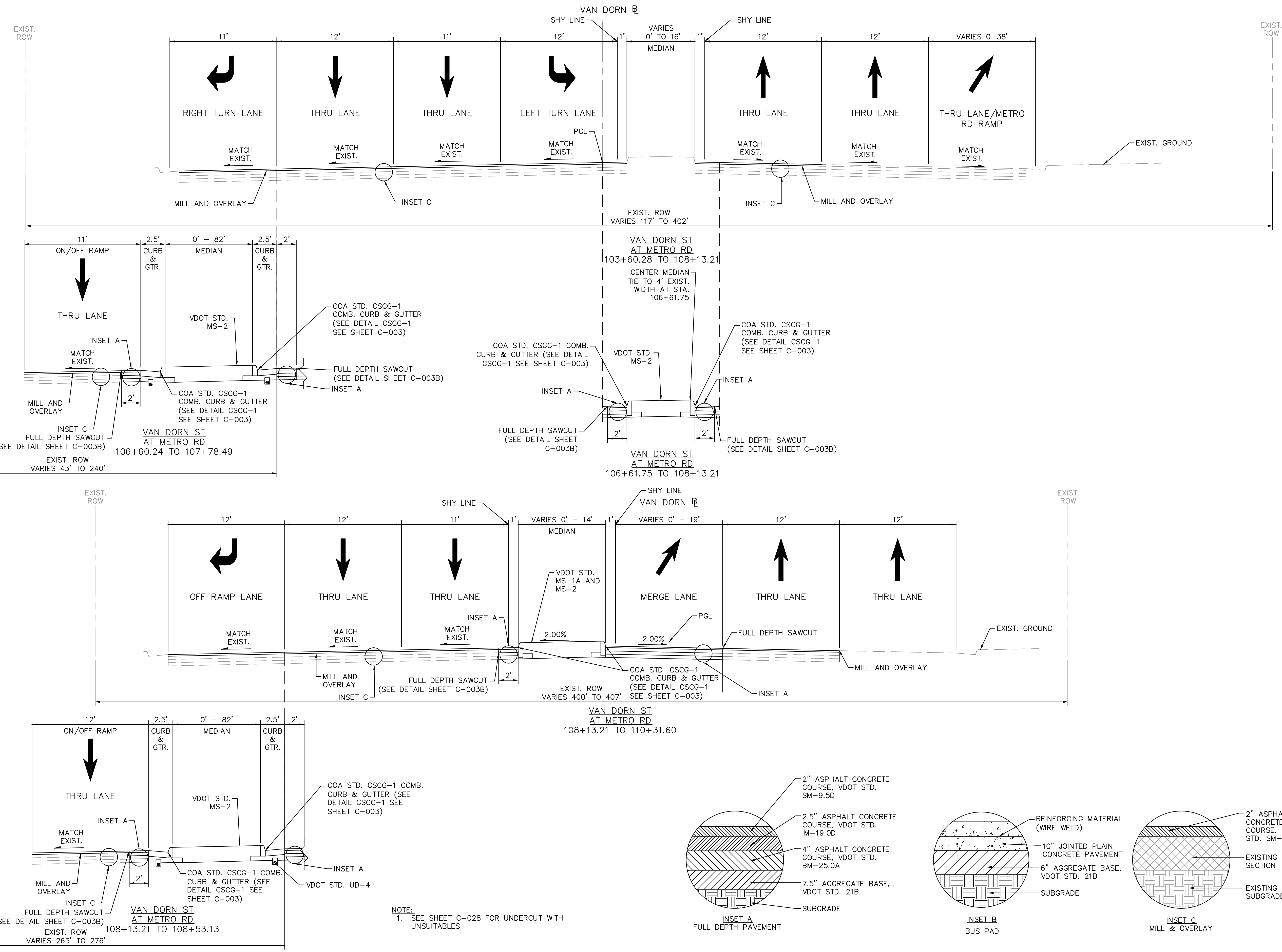
NO.	DESCRIPTION

ALEXANDRIA PROJECT NO.: 110104122
 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: EJD DATE: 4/5/24
 DRAWN BY: SZ DATE: 4/5/24
 CHECKED BY: EJD DATE: 4/5/24
 APPROVED BY: _____ DATE: _____

CONSTRUCTION ALIGNMENT DATA SHEET

SHEET C-015
 SCALE 1" = 100'

Plotted By: Sydney, Sydney Sheet Set: West End Transitway - Phase 1 Layout: C-016 TYPICAL SECTIONS July 25, 2024 10:23:05am K:\NVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\TYPICAL SECTIONS.dwg



NOTE:
 1. SEE SHEET C-028 FOR UNDERCUT WITH UNSUITABLES

WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS



CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

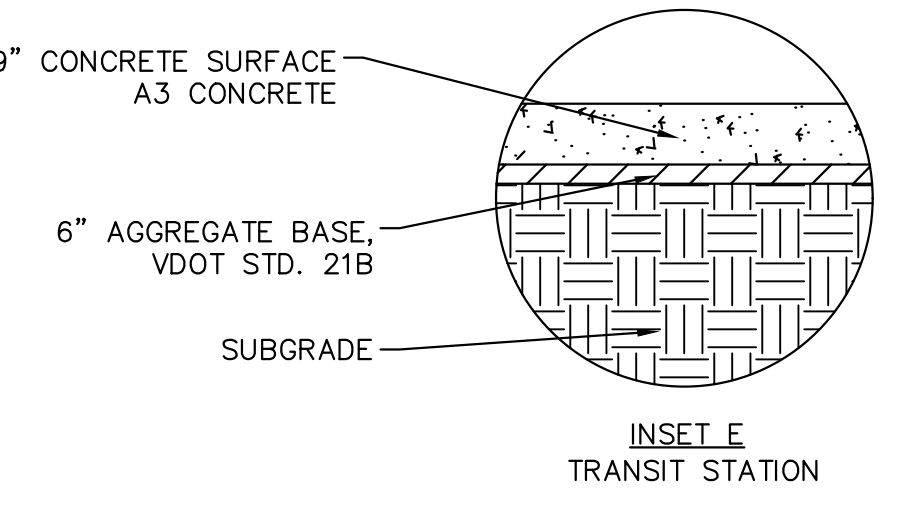
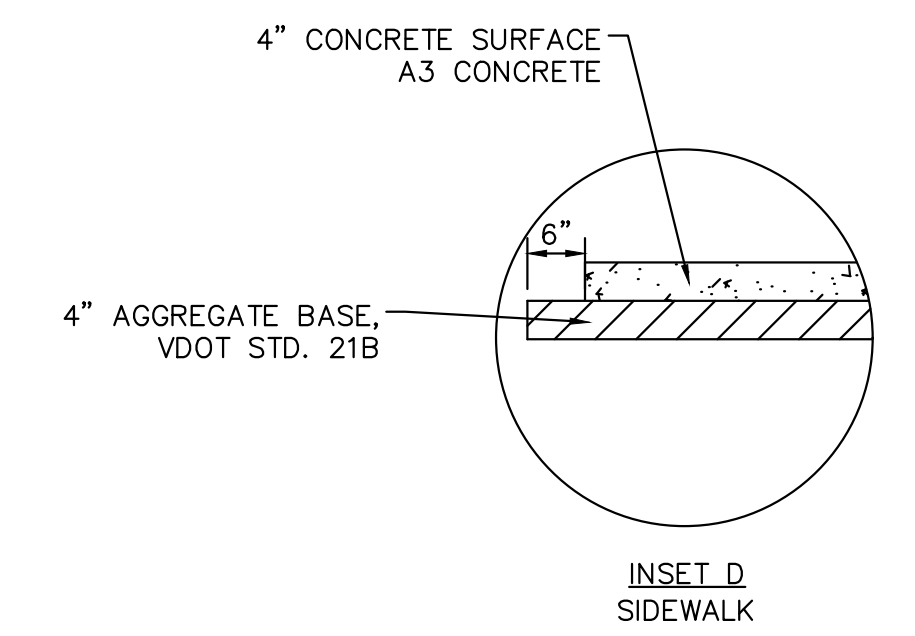
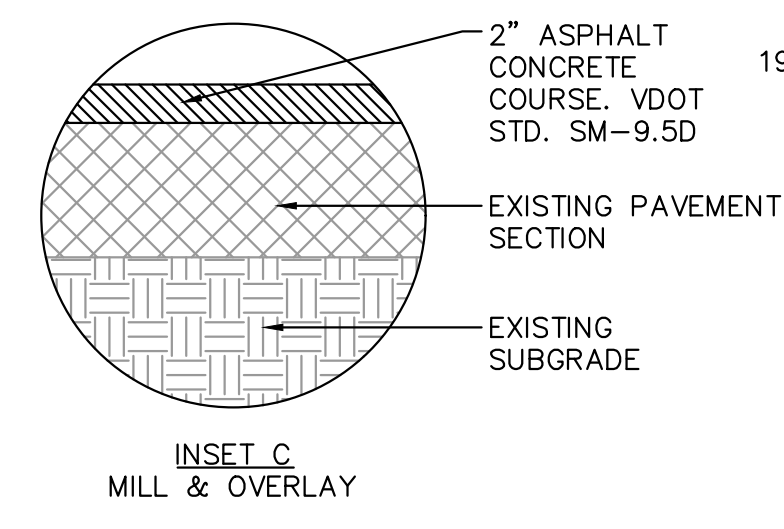
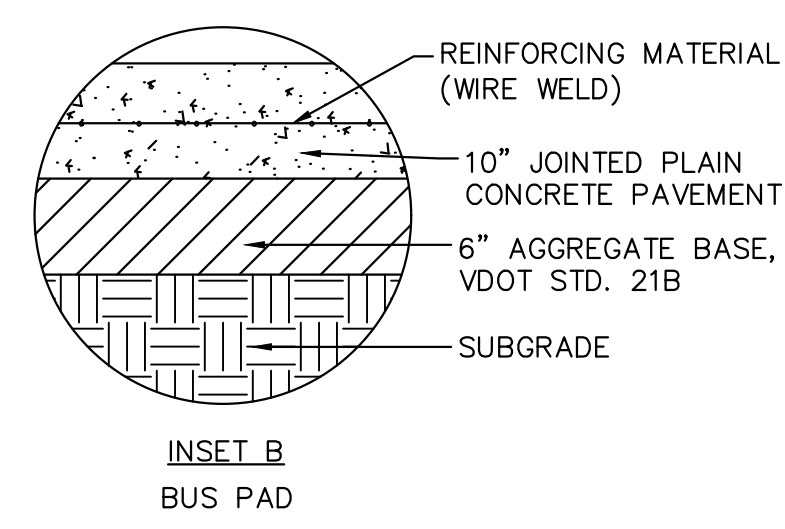
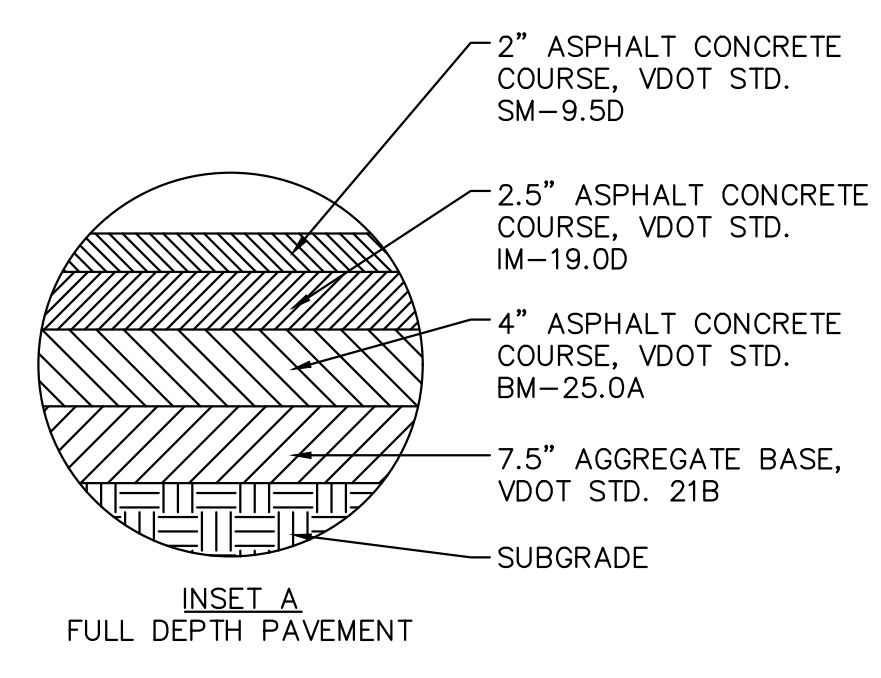
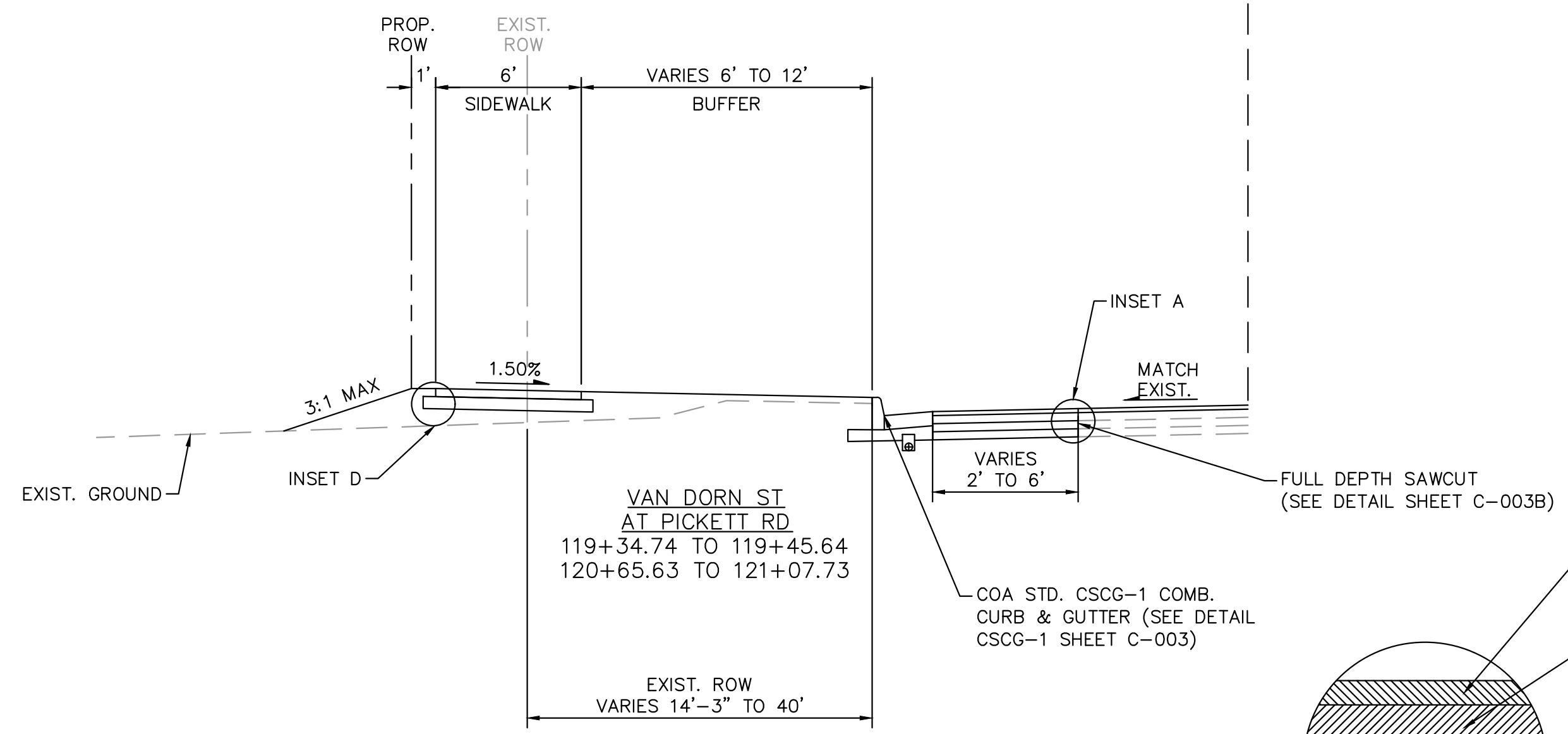
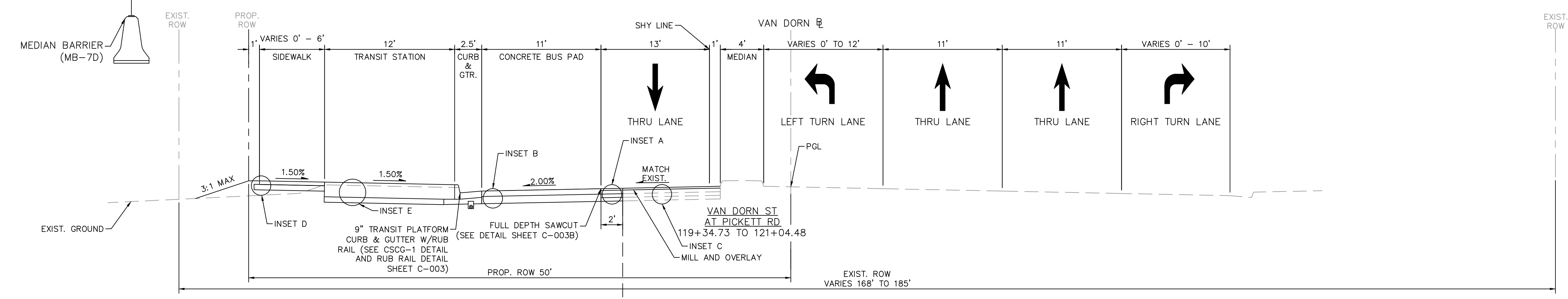
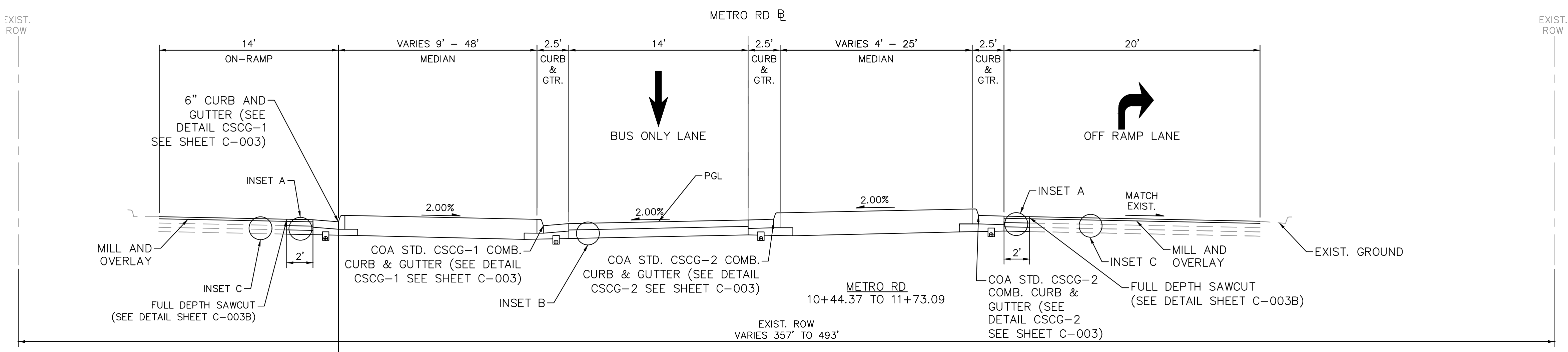
REVISIONS	DESCRIPTION
DATE	
BY	

ALEXANDRIA PROJECT NO.: 110104122
 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: MAT DATE: 4/5/24
 DRAWN BY: AUB DATE: 4/5/24
 CHECKED BY: ED DATE: 4/5/24
 APPROVED BY: DATE:

TYPICAL SECTIONS

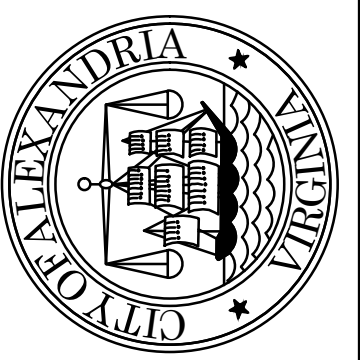
SHEET
 C-016
 SCALE NTS

Plotted By: Grovitt, Sydney Sheet Set: West End Transitway - Phase 1 Layout: C-017 TYPICAL SECTIONS July 25, 2024 10:23:19am K:\NVA_Transit\10104122_West_End_Transitway_Design\CADD\PlanSheets\TYPICAL_SECTIONS.dwg



NOTE:
1. SEE SHEET C-028 FOR UNDERCUT WITH UNSUITABLES

WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS



CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

90% DESIGN PHASE

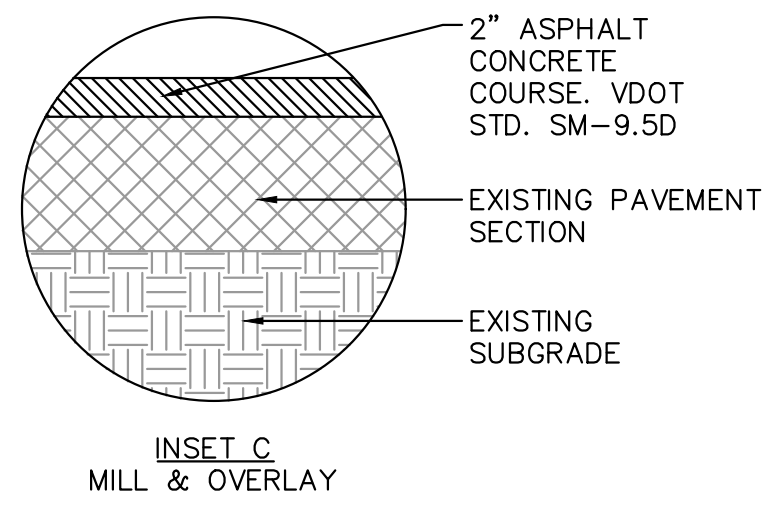
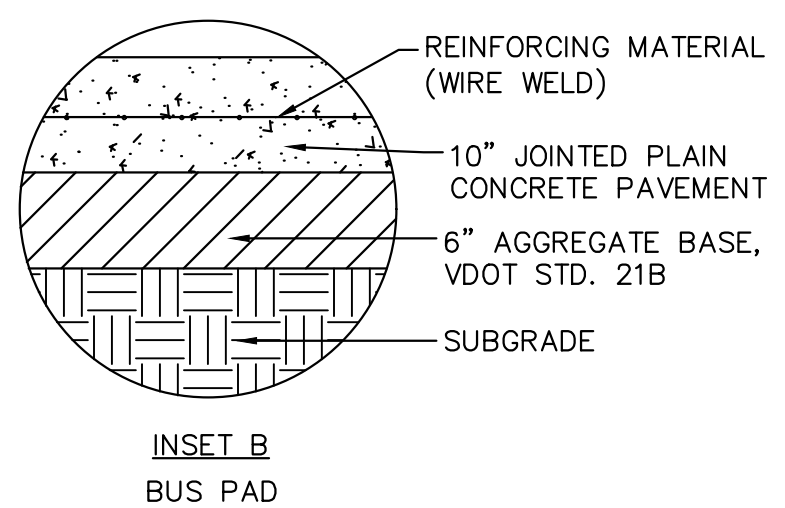
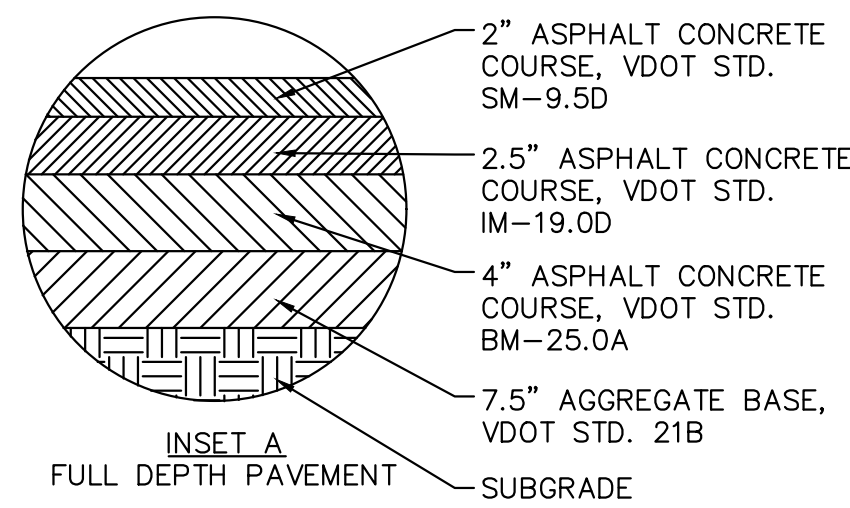
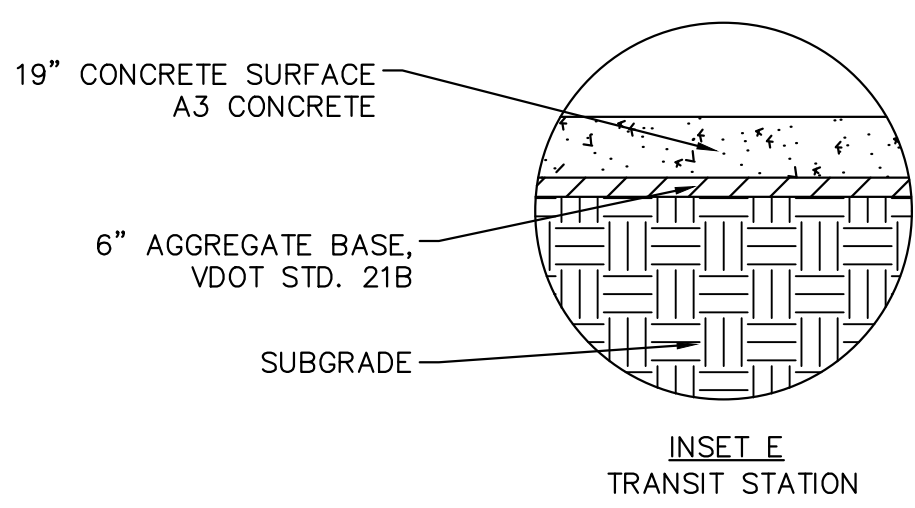
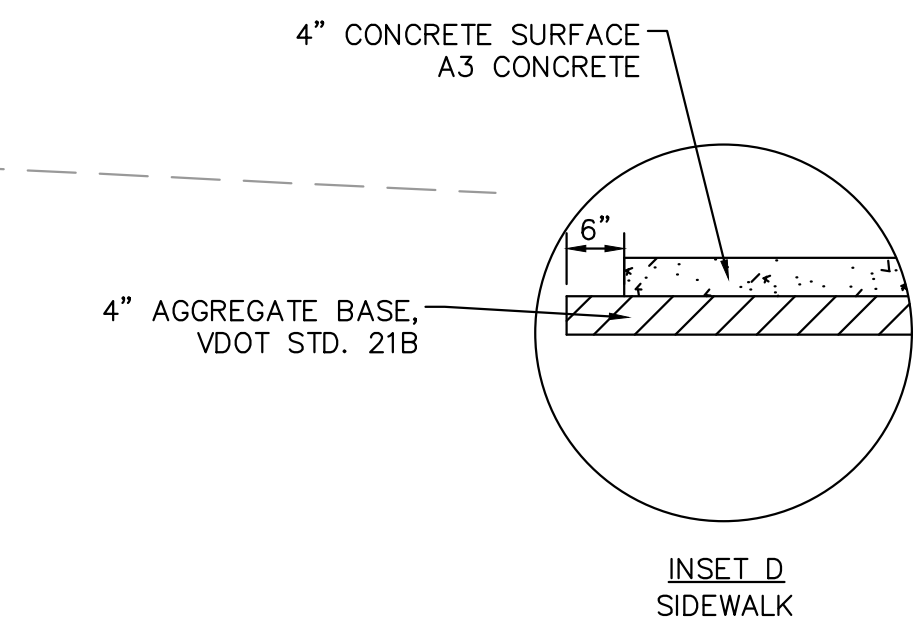
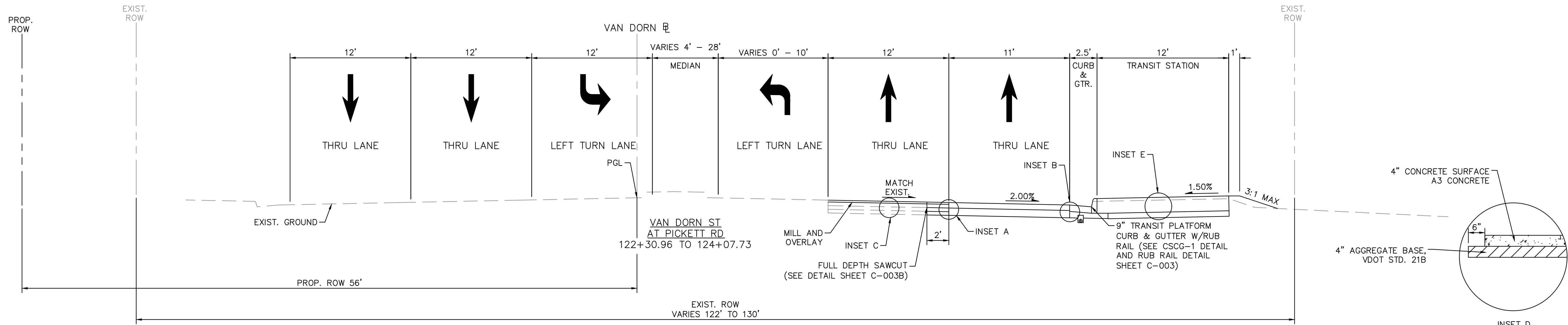
REVISIONS	DESCRIPTION
DATE	BY

ALEXANDRIA PROJECT NO.: 110104122
DATE OF PLAN ISSUANCE: N/A
CONSULTANT PROJECT ID: N/A
DESIGNED BY: MAT. DATE: 4/5/24
DRAWN BY: AUB. DATE: 4/5/24
CHECKED BY: EJD. DATE: 4/5/24
APPROVED BY: _____ DATE: _____

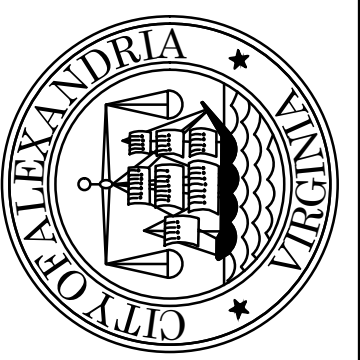
TYPICAL SECTIONS

SHEET
C-017
SCALE NTS

Plotted By: Grovitt, Sydney Sheet Set: West End Transitway - Phase 1 Layout: C-018 TYPICAL SECTIONS July 25, 2024 10:23:32am K:\NVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\TYPICAL SECTIONS.dwg



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS 90% DESIGN PHASE



CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

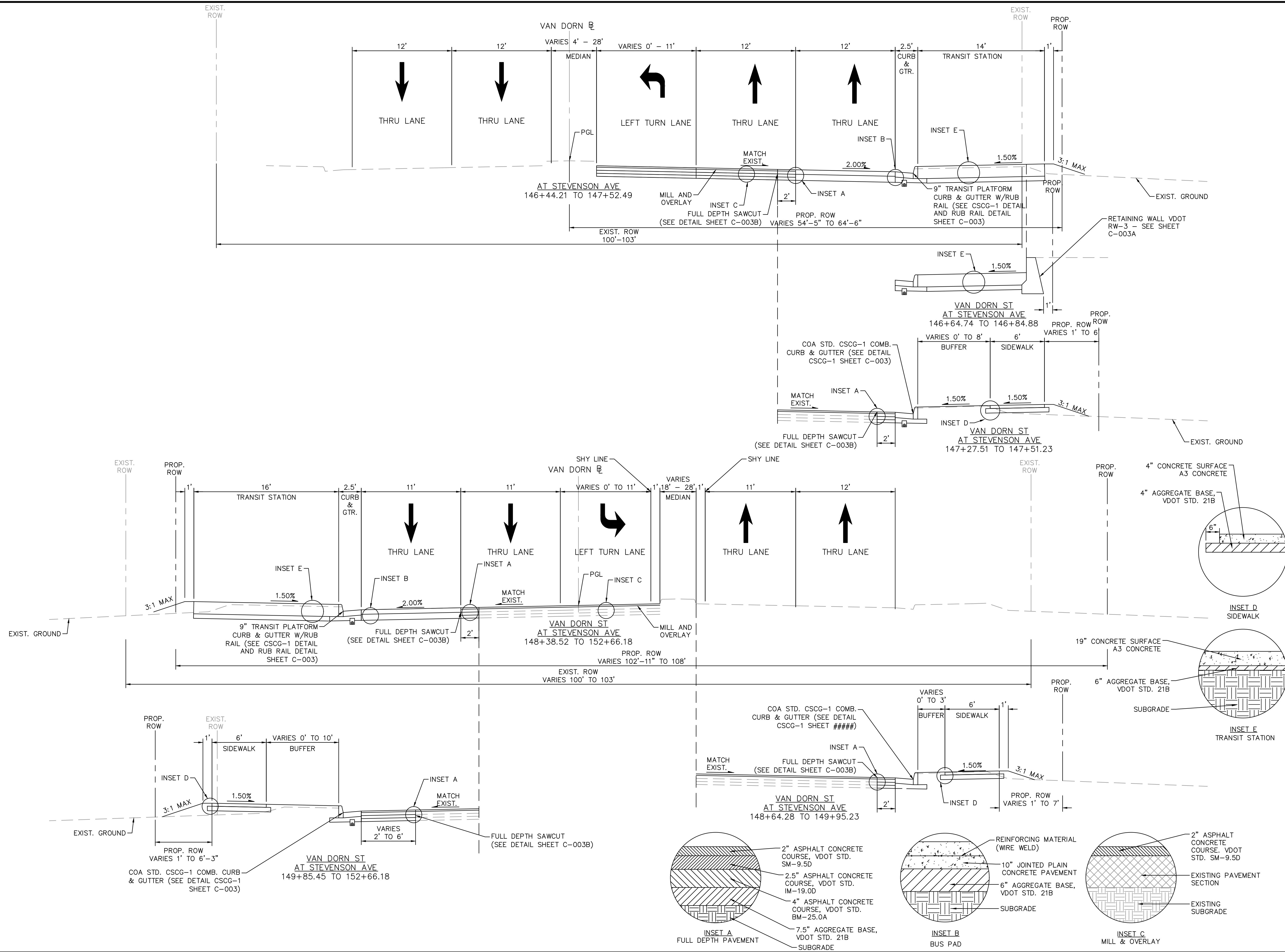
REVISIONS	DESCRIPTION
DATE	BY

ALEXANDRIA PROJECT NO.:	110104122
DATE OF PLAN ISSUANCE:	N/A
CONSULTANT PROJECT ID.:	N/A
DESIGNED BY:	MAT. DATE: 4/5/24
DRAWN BY:	AJB. DATE: 4/5/24
CHECKED BY:	EJD. DATE: 4/5/24
APPROVED BY:	DATE:

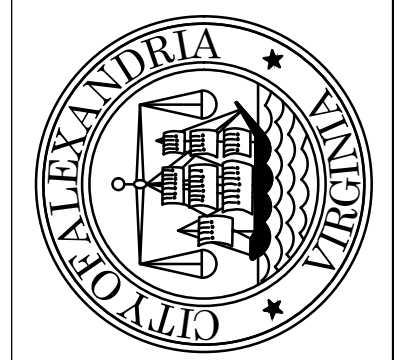
TYPICAL SECTIONS

 SHEET C-018
 SCALE NTS

Plotted By: Grovitt, Sydney Sheet Set: West End Transitway - Phase 1 Layout: C-019 TYPICAL SECTIONS July 25, 2024 10:23:46am K:\NVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\TYPICAL SECTIONS.dwg



90% DESIGN PHASE



CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

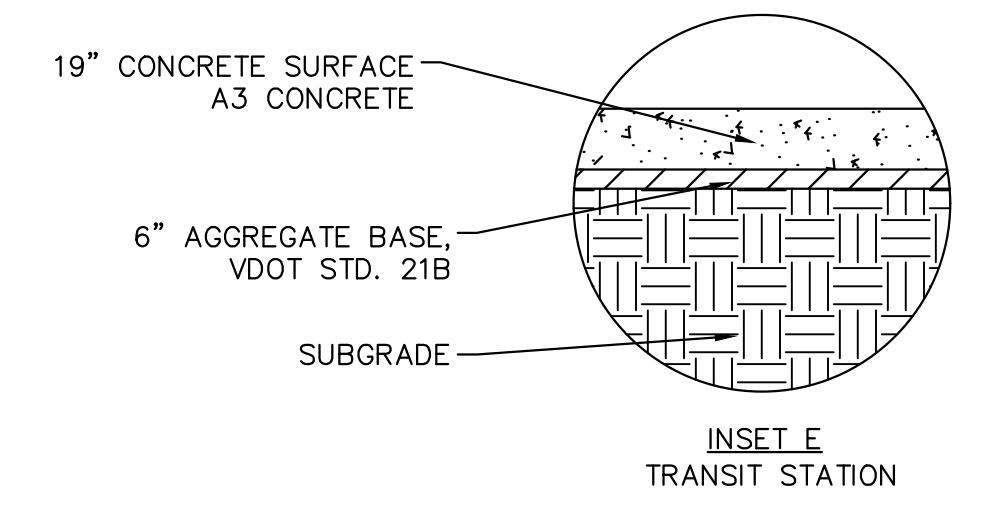
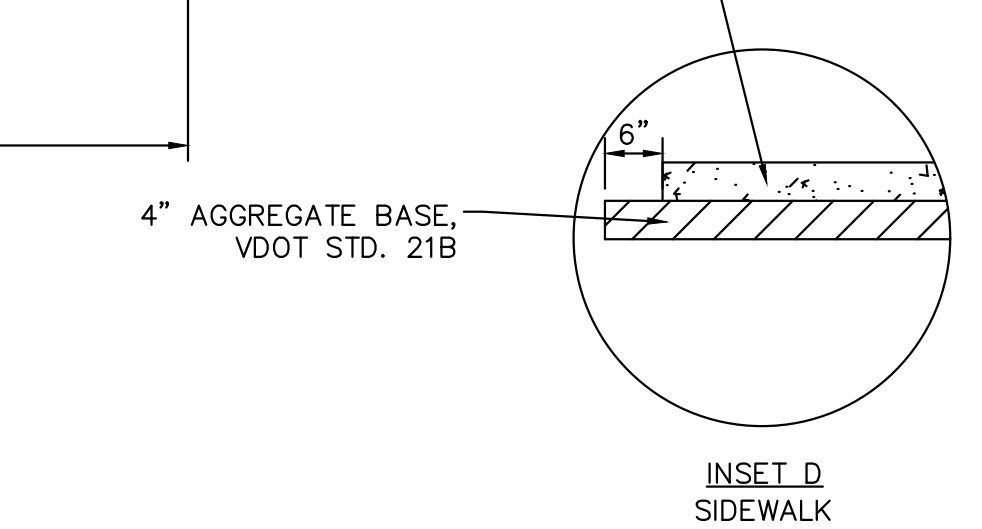
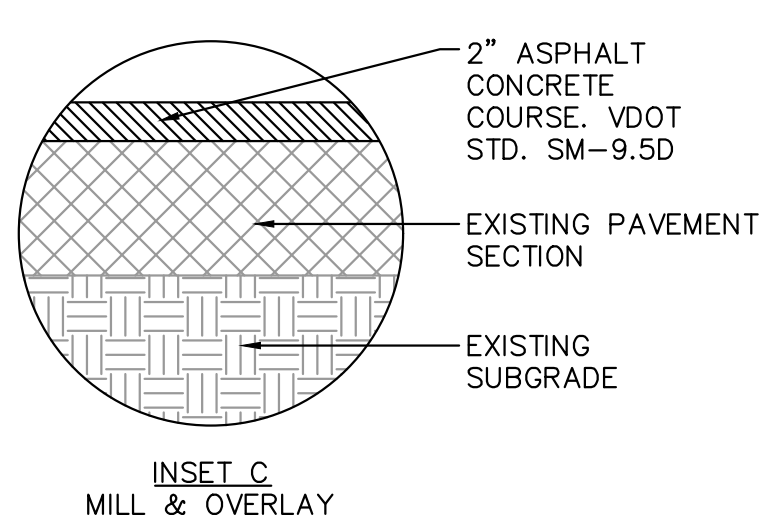
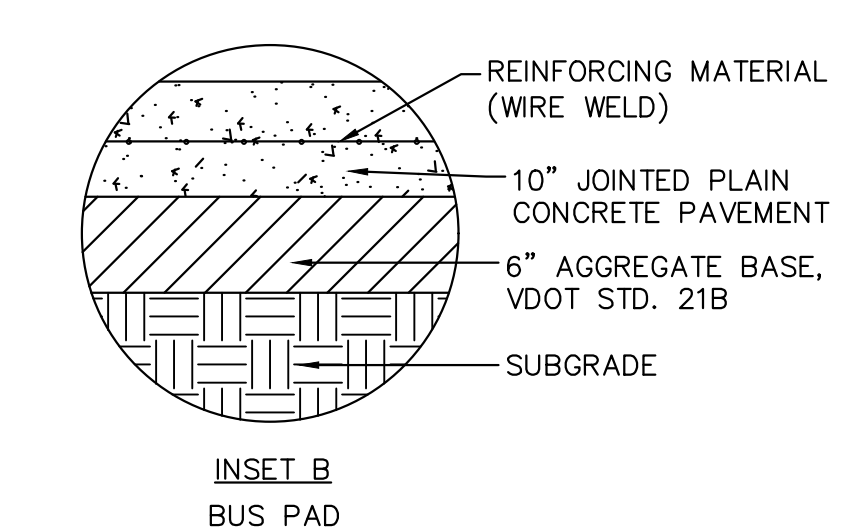
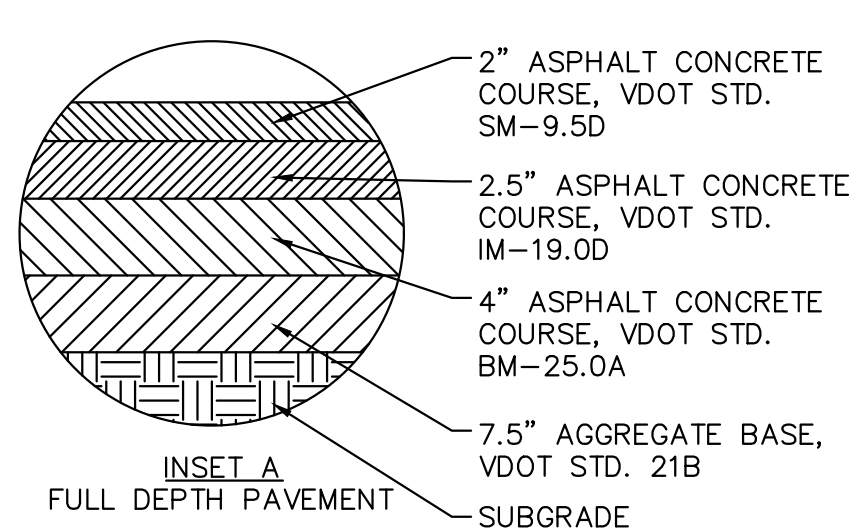
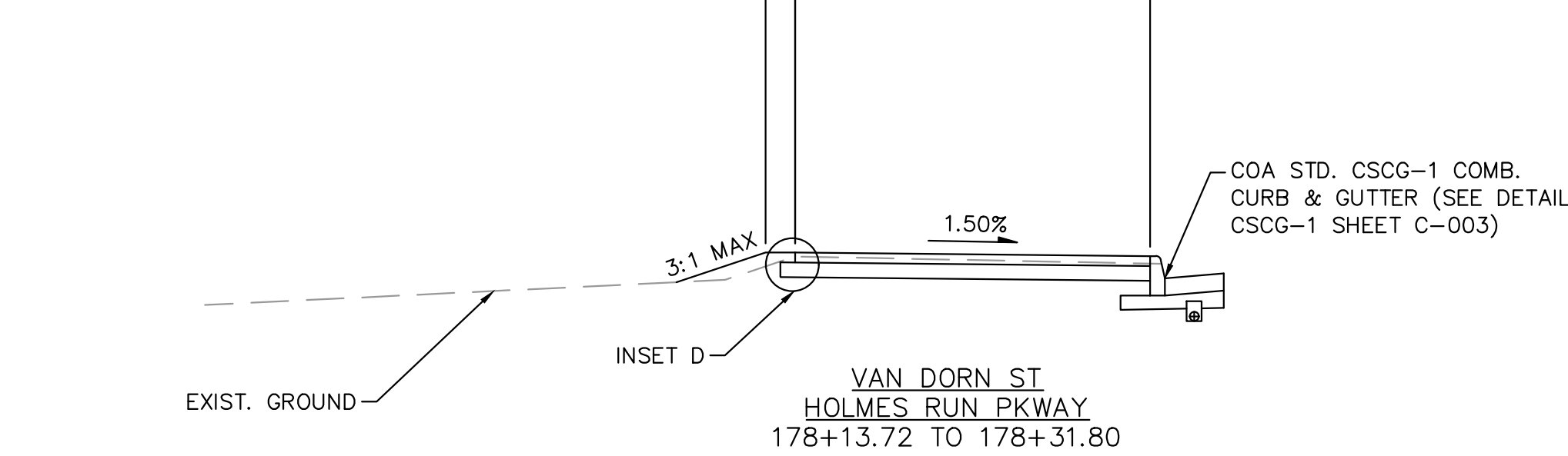
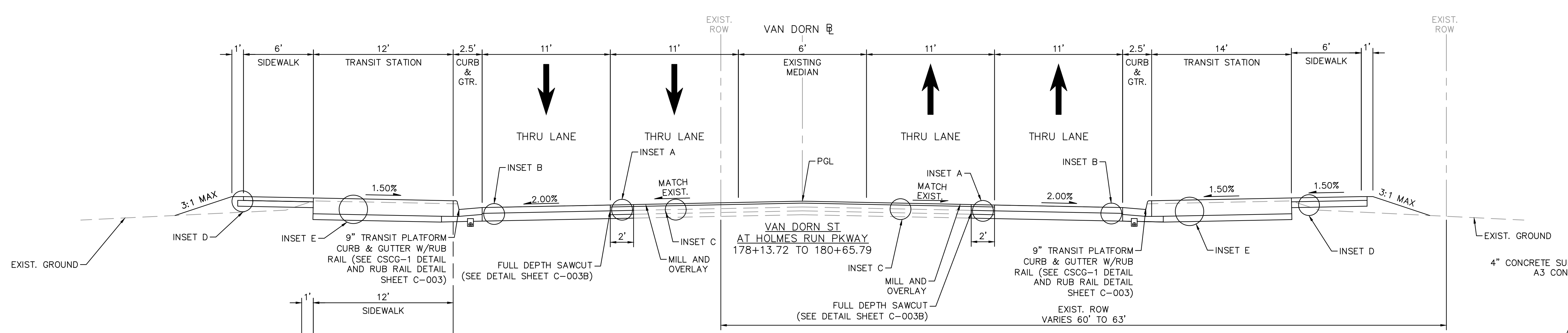
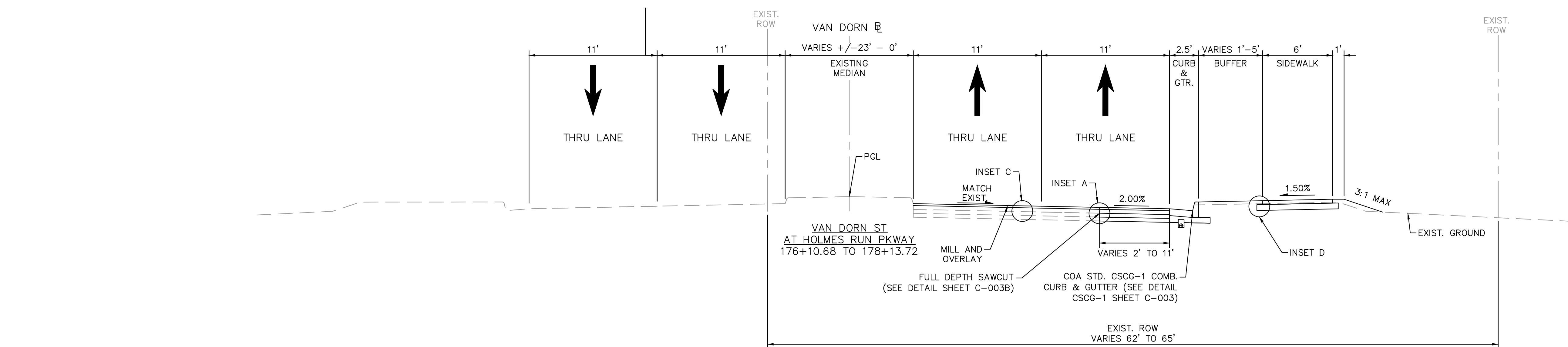
REVISIONS	DESCRIPTION
DATE	BY

WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

TYPICAL SECTIONS

SHEET
 C-019
 SCALE NTS

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WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

90% DESIGN PHASE

REVISIONS	DESCRIPTION

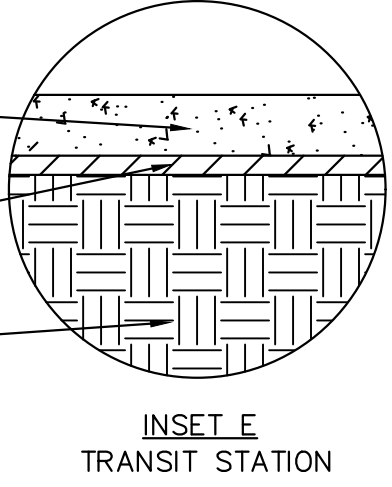
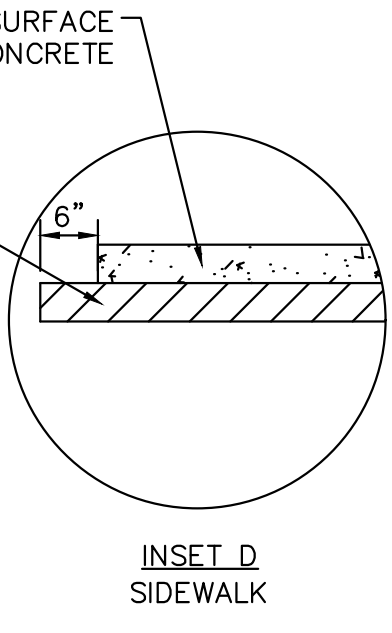
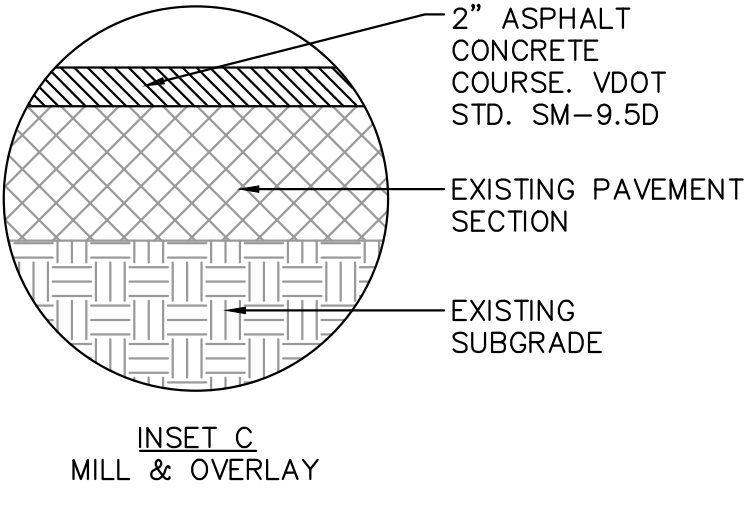
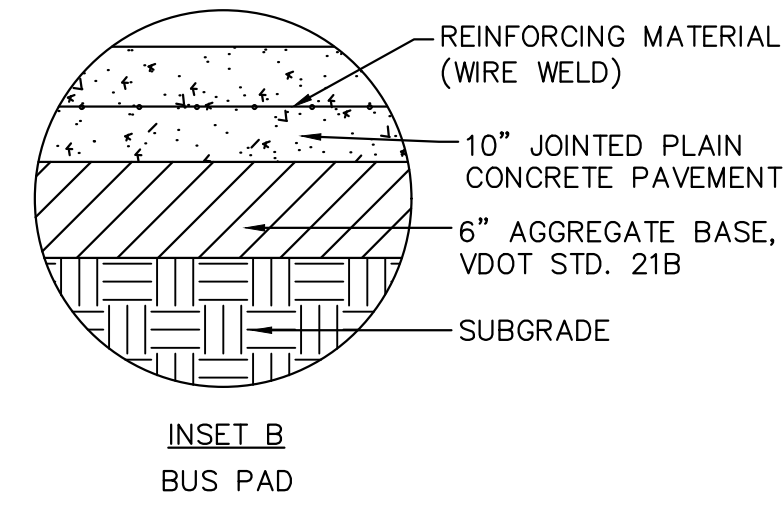
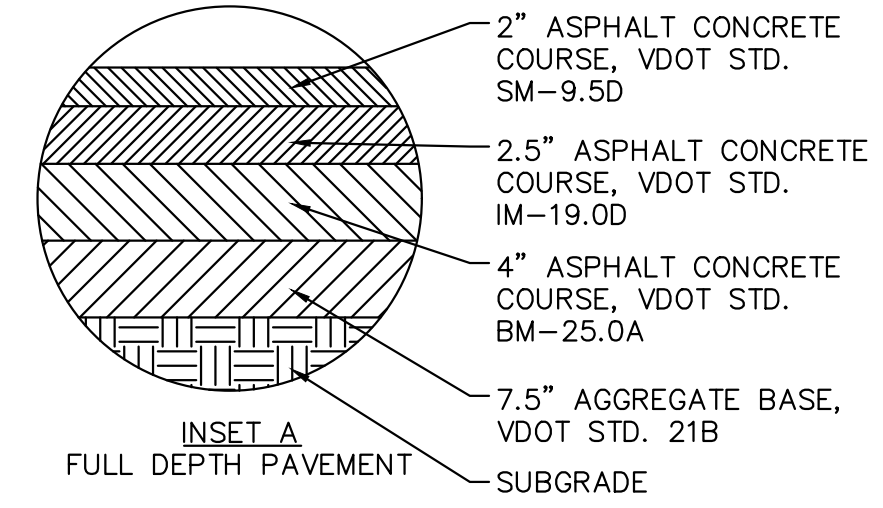
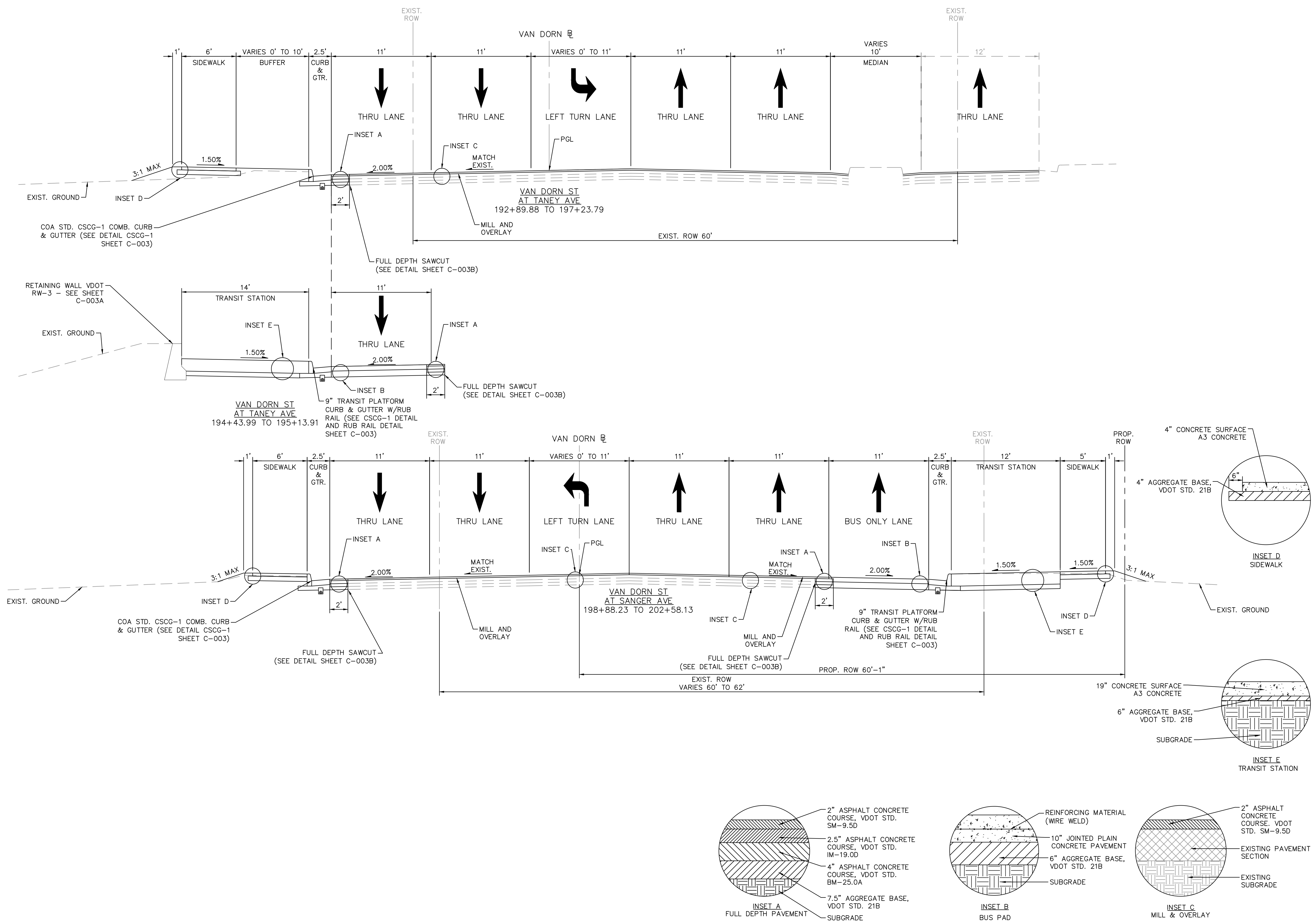
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TYPICAL SECTIONS

SHEET C-020

SCALE NTS

Plotted By: Grovitt, Sydney Sheet Set: West End Transitway - Phase 1 Layout: C-021 TYPICAL SECTIONS July 25, 2024 10:24:20am K:\NVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\TYPICAL SECTIONS.dwg



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

90% DESIGN PHASE

REVISIONS	DESCRIPTION

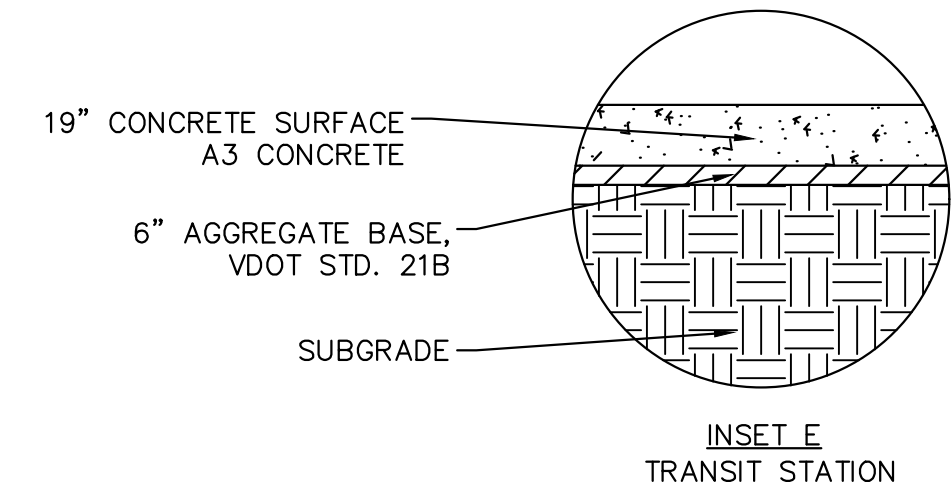
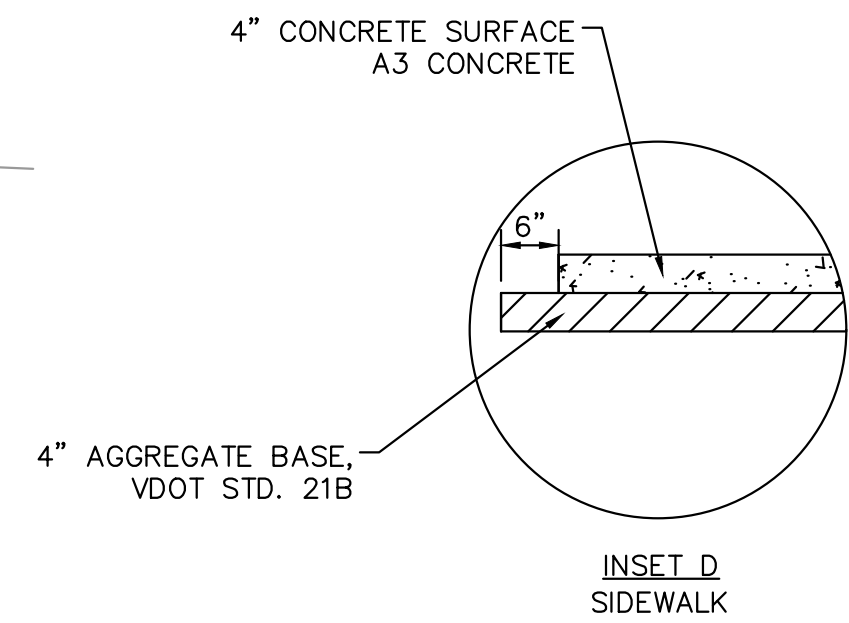
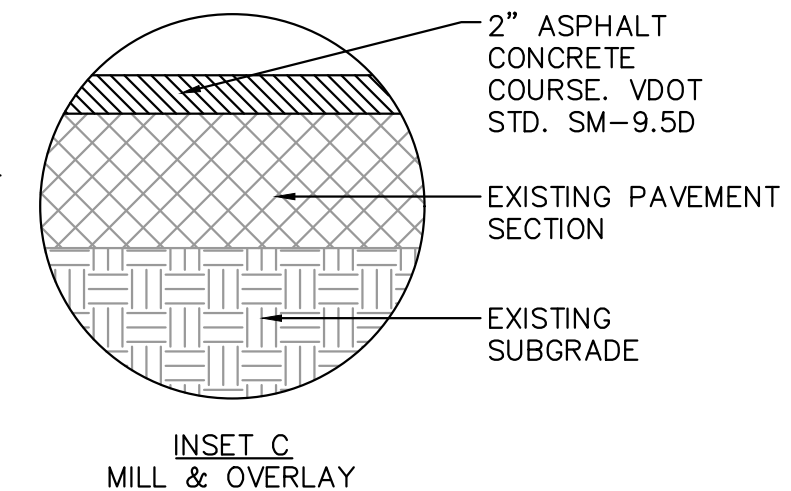
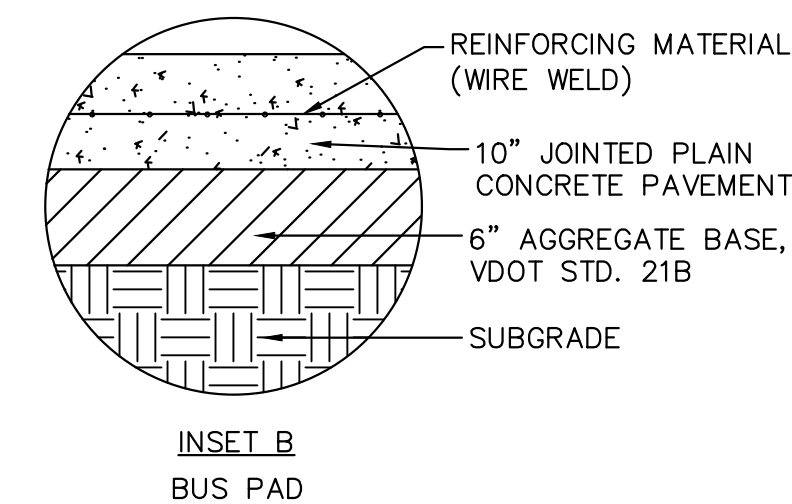
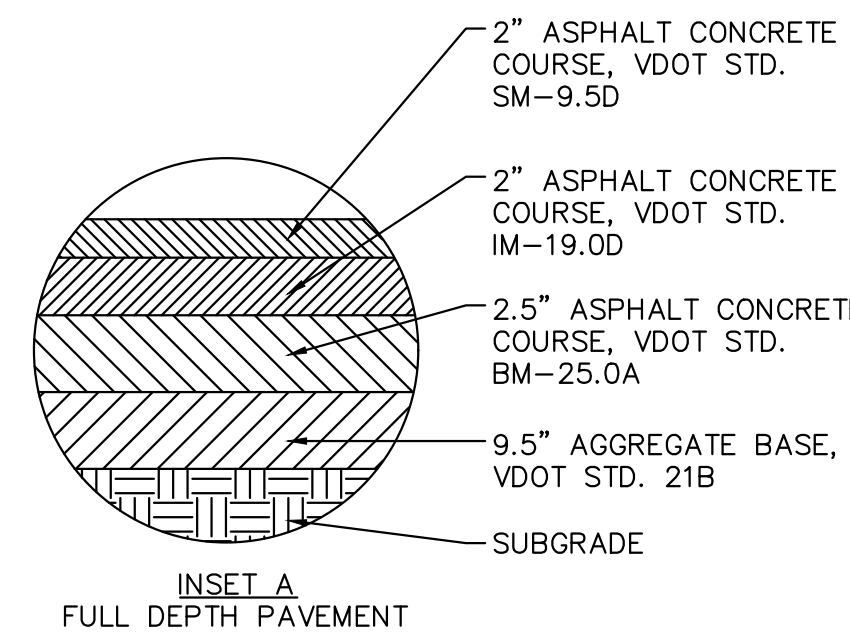
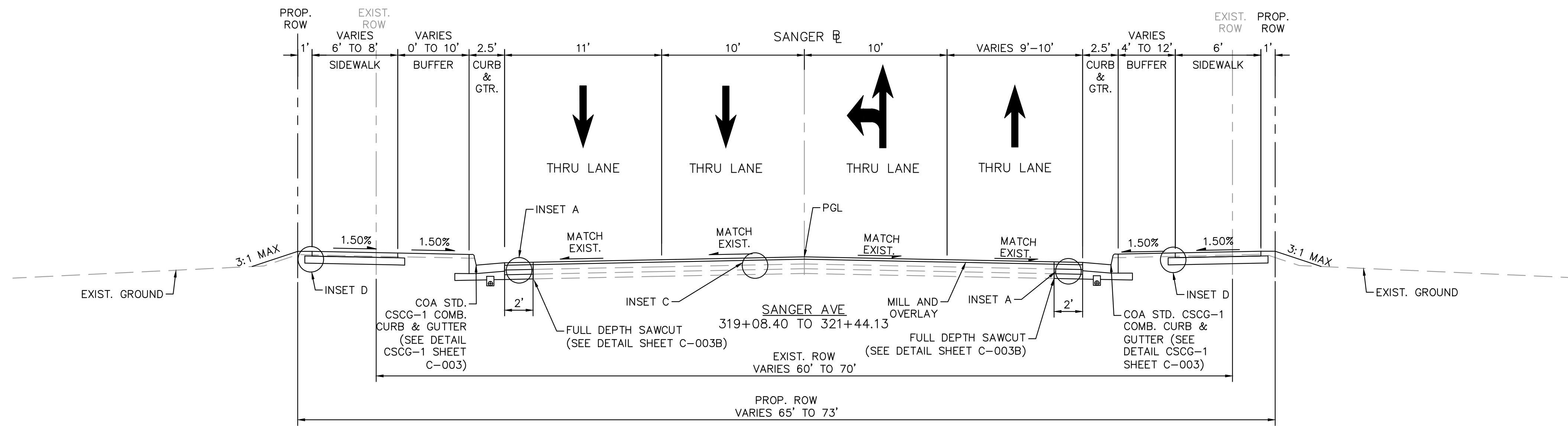
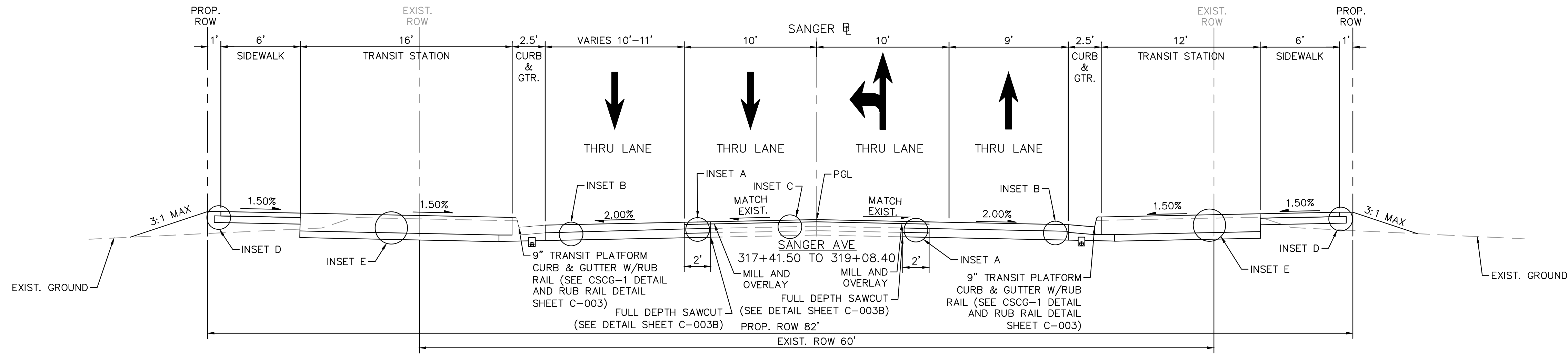
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TYPICAL SECTIONS

SHEET C-021

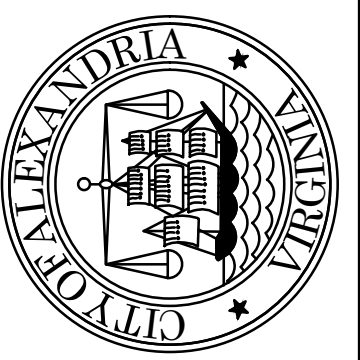
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WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE



CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

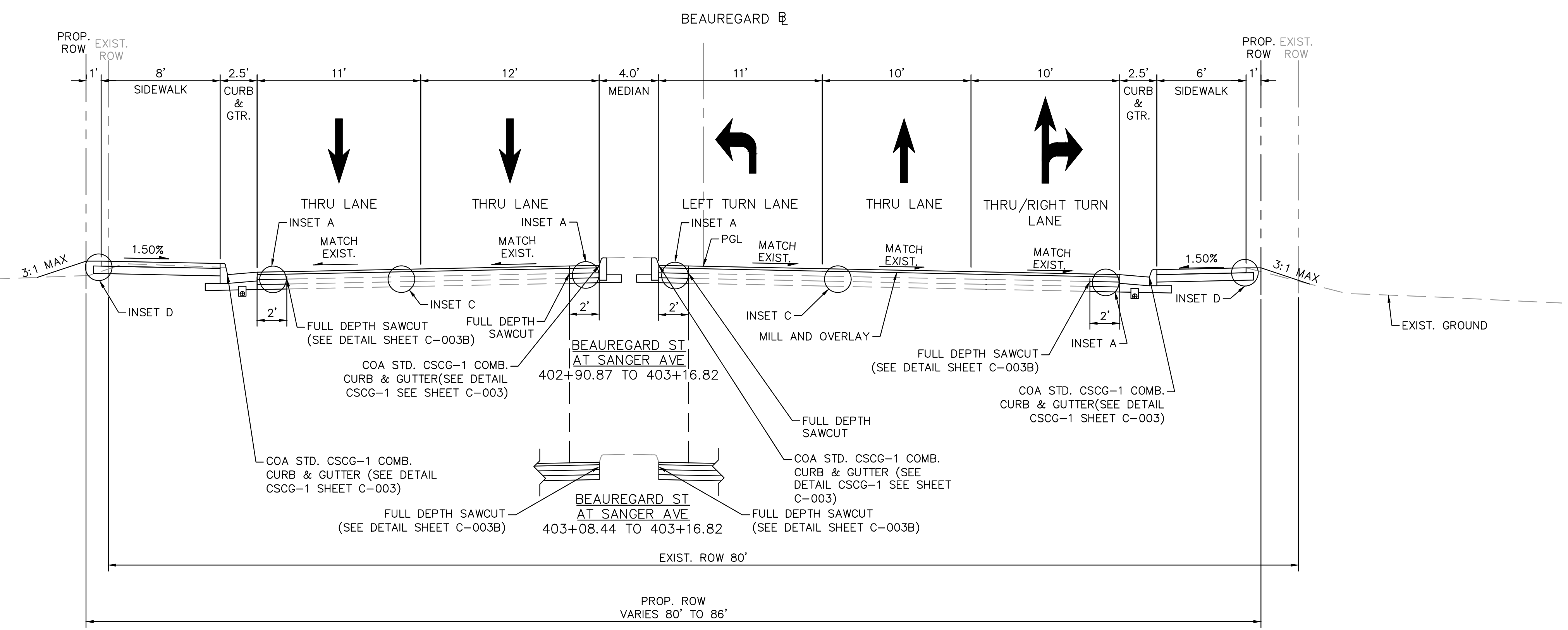
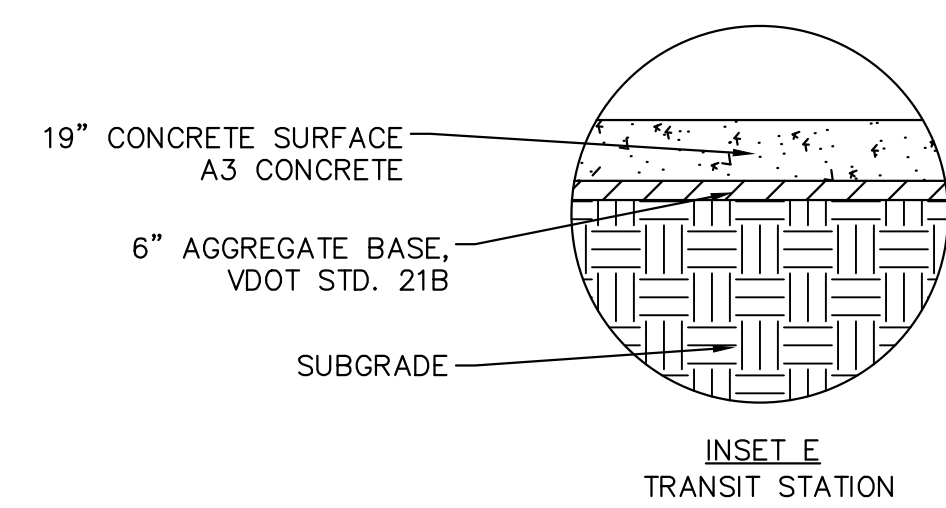
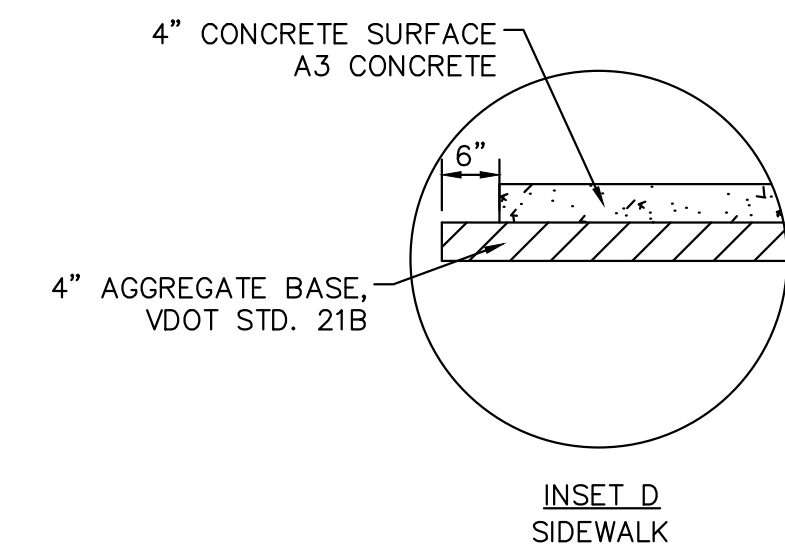
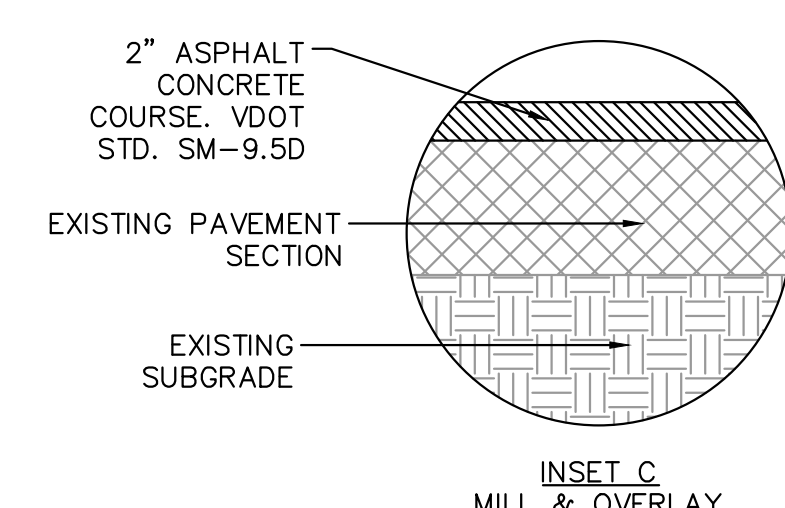
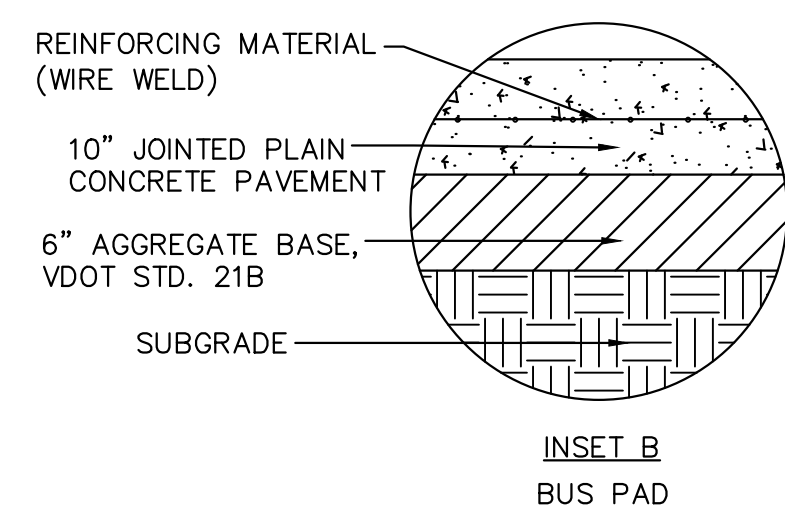
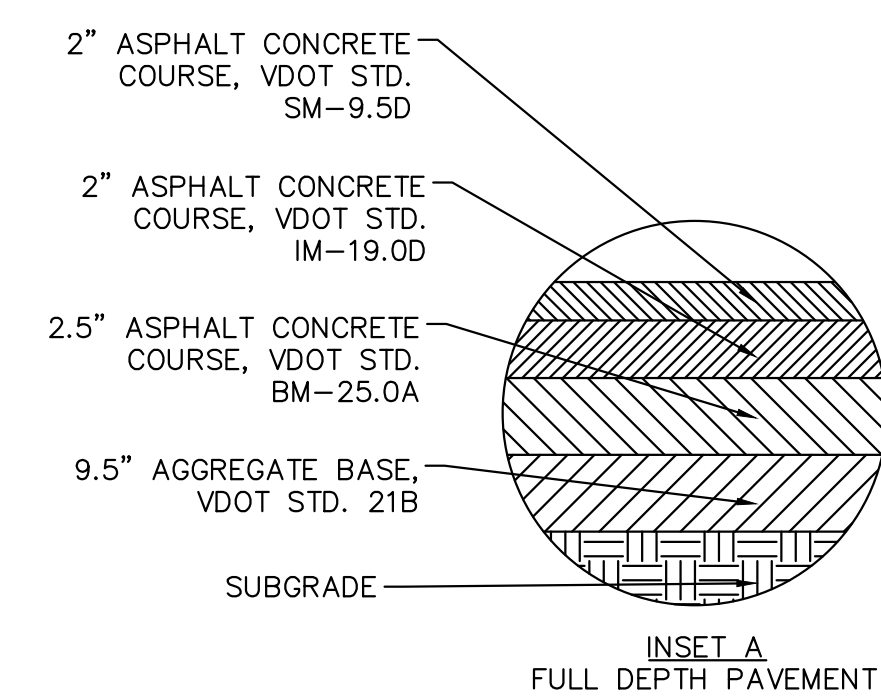
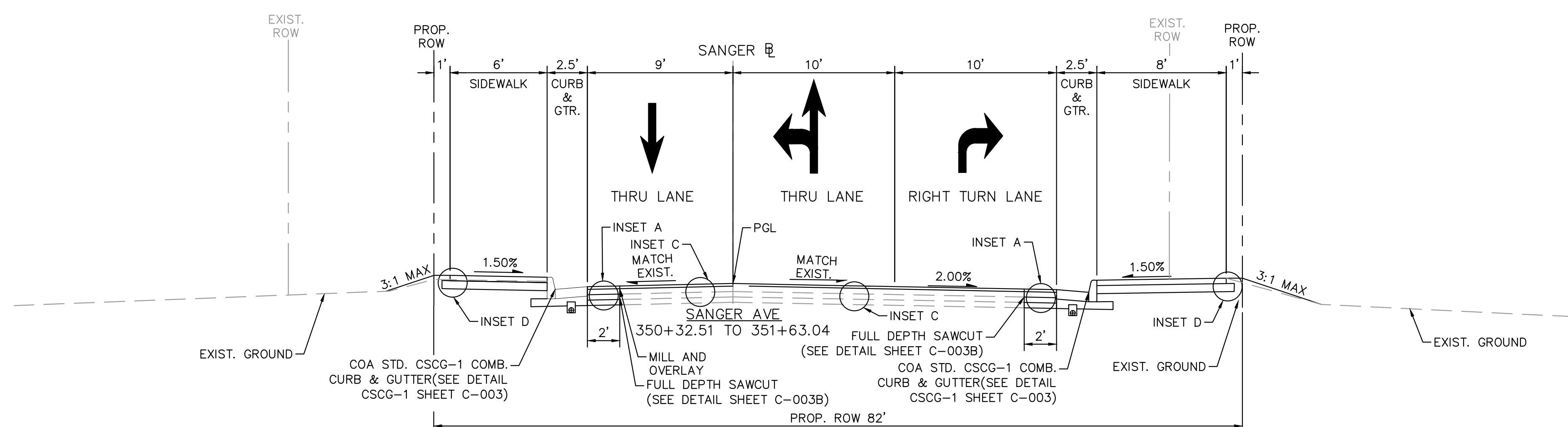
REVISIONS	DESCRIPTION

ALEXANDRIA PROJECT NO.: 110104122
 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: MAT DATE: 4/5/24
 DRAWN BY: AUB DATE: 4/5/24
 CHECKED BY: EJD DATE: 4/5/24
 APPROVED BY: _____ DATE: _____

TYPICAL SECTIONS

SHEET
 C-022
 SCALE NTS

Plotted By: Grovitt, Sydney Sheet Set: West End Transitway - Phase 1 Layout: C-023 TYPICAL SECTIONS July 25, 2024 10:24:52am K:\NVA_Transit\110104122_West_End_Transitway_Design\CADD\PlanSheets\TYPICAL_SECTIONS.dwg



90% DESIGN PHASE



CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

REVISIONS	DESCRIPTION
DATE	BY

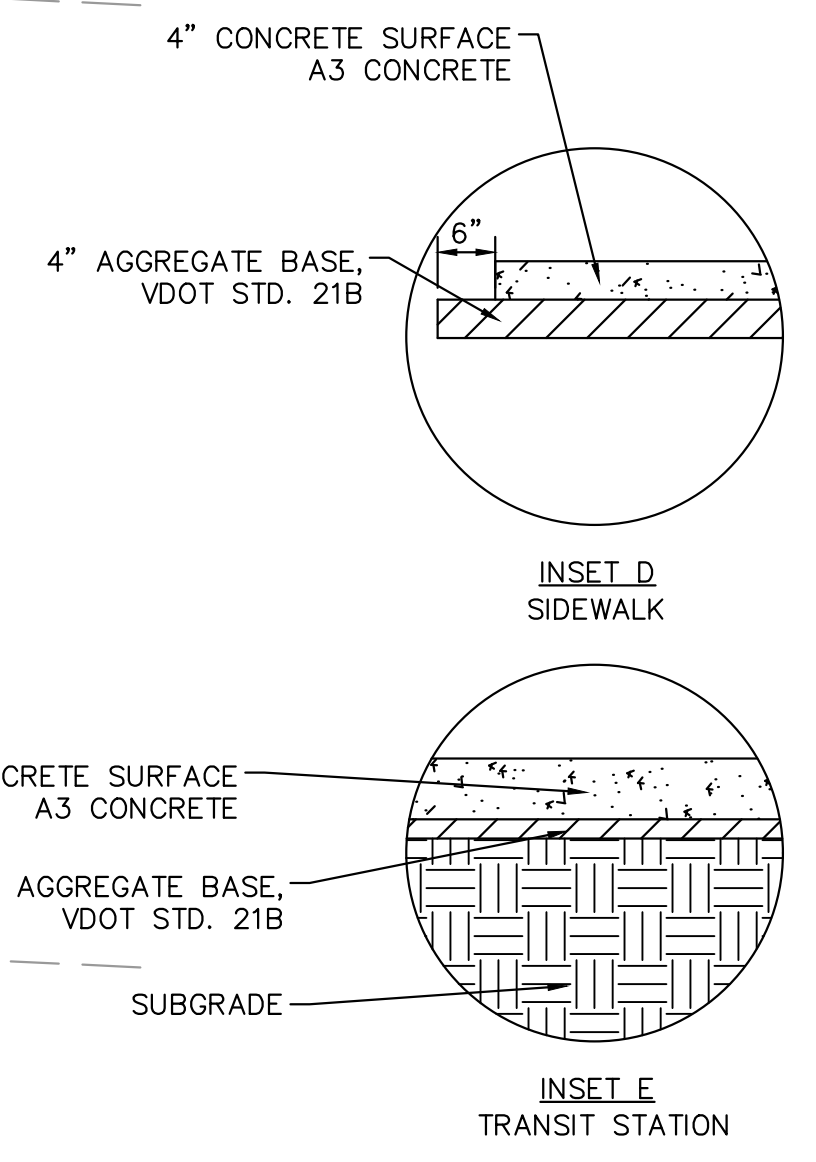
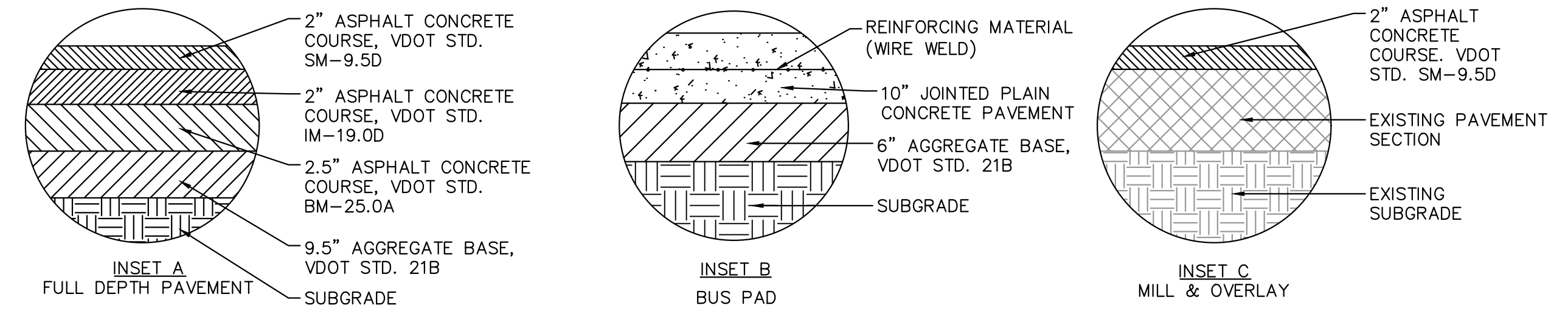
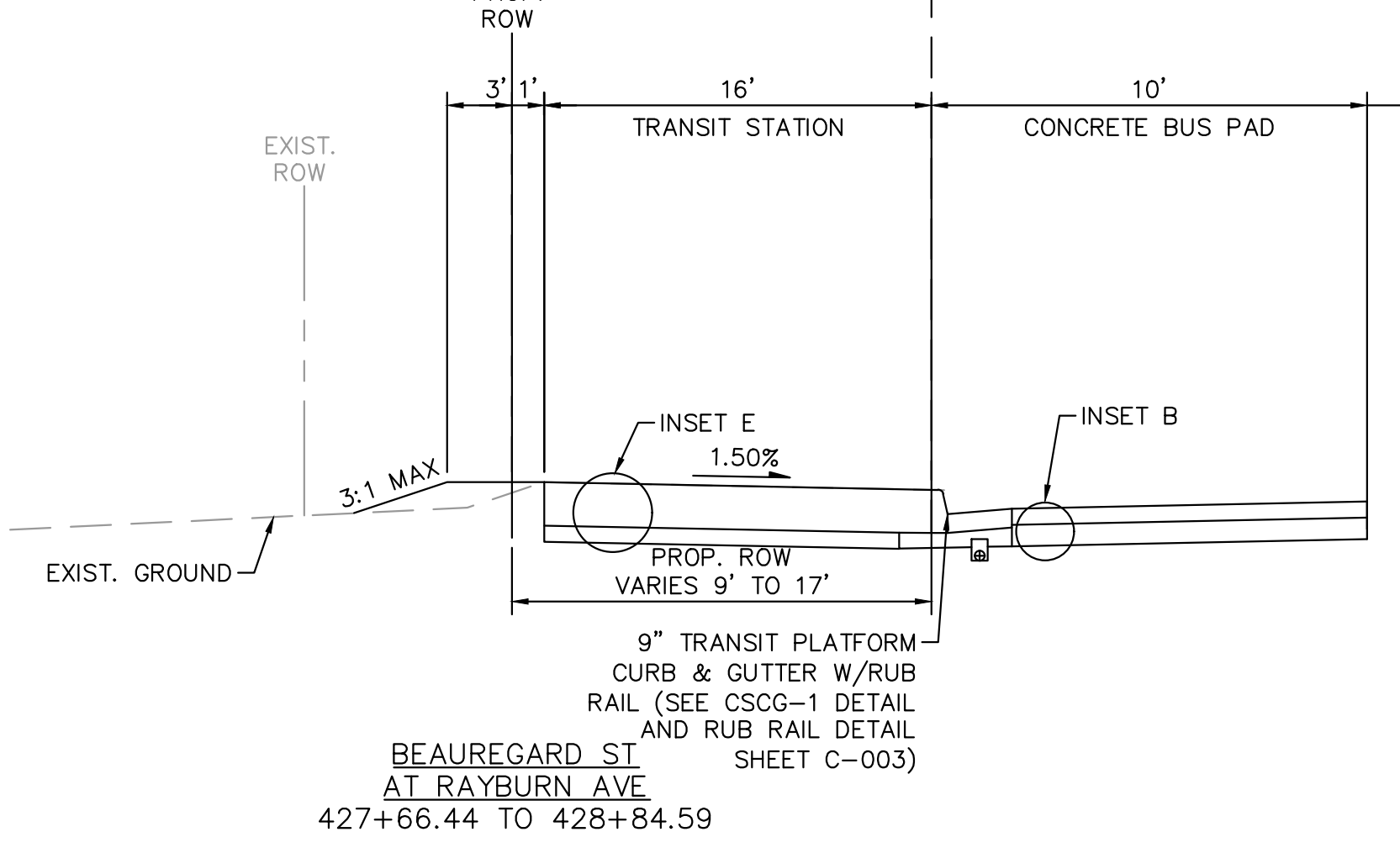
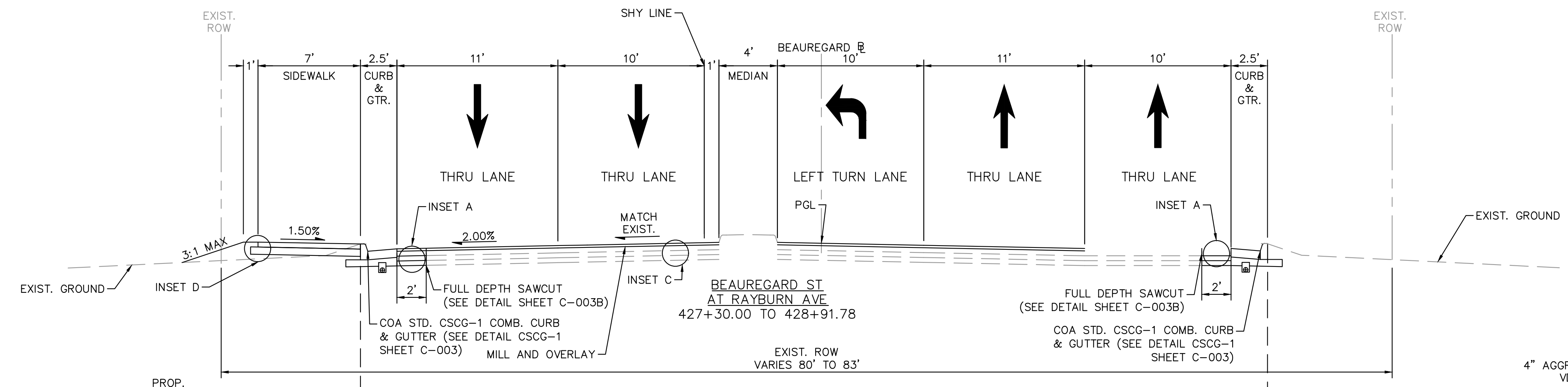
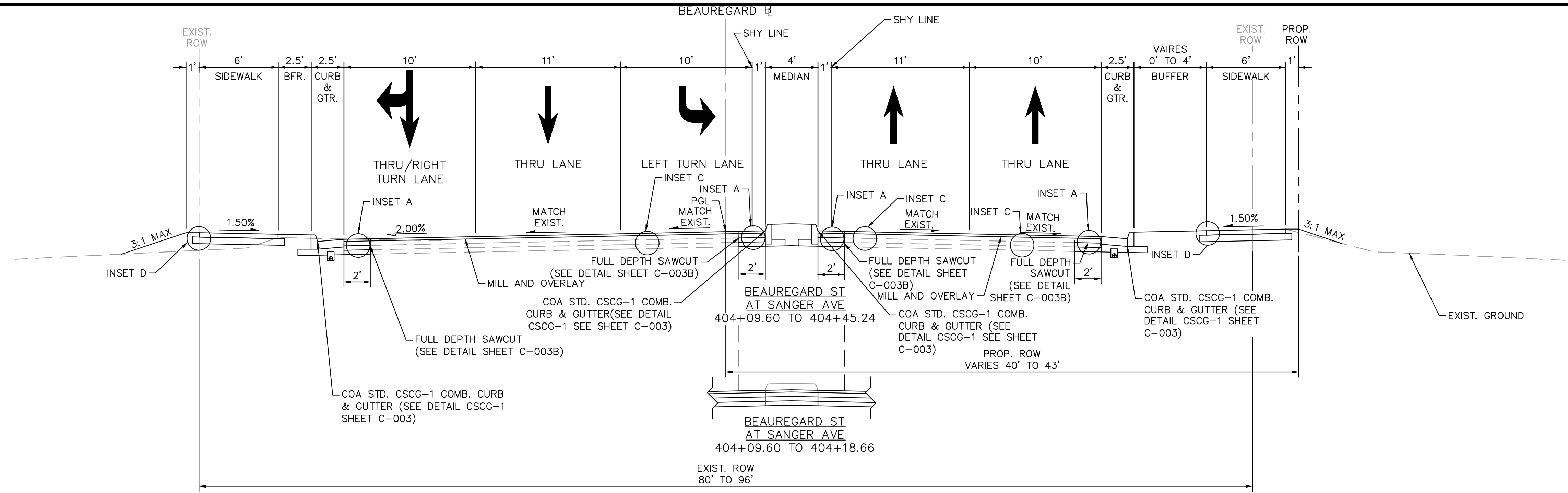
ALEXANDRIA PROJECT NO.:	110104122
DATE OF PLAN ISSUANCE:	N/A
CONSULTANT PROJECT ID.:	N/A
DESIGNED BY:	VALUE DATE: 4/5/24
DRAWN BY:	VALUE DATE: 4/5/24
CHECKED BY:	VALUE DATE: 4/5/24
APPROVED BY:	DATE:

WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

TYPICAL SECTIONS

SHEET
 C-023
 SCALE NTS

Plotted By: Grovitt, Sydney Sheet Set: West End Transitway - Phase 1 Layout: C-024 TYPICAL SECTIONS July 25, 2024 10:25:22am K:\NVA_Transit\110104122_West_End_Transitway_Design\CADD\PlanSheets\TYPICAL_SECTIONS.dwg



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

90% DESIGN PHASE

NO.	DATE	DESCRIPTION

ALEXANDRIA PROJECT NO.: 110104122

DATE OF PLAN ISSUANCE: N/A

CONSULTANT PROJECT ID: N/A

DESIGNED BY: MAT DATE: 4/5/24

DRAWN BY: AUB DATE: 4/5/24

CHECKED BY: EJD DATE: 4/5/24

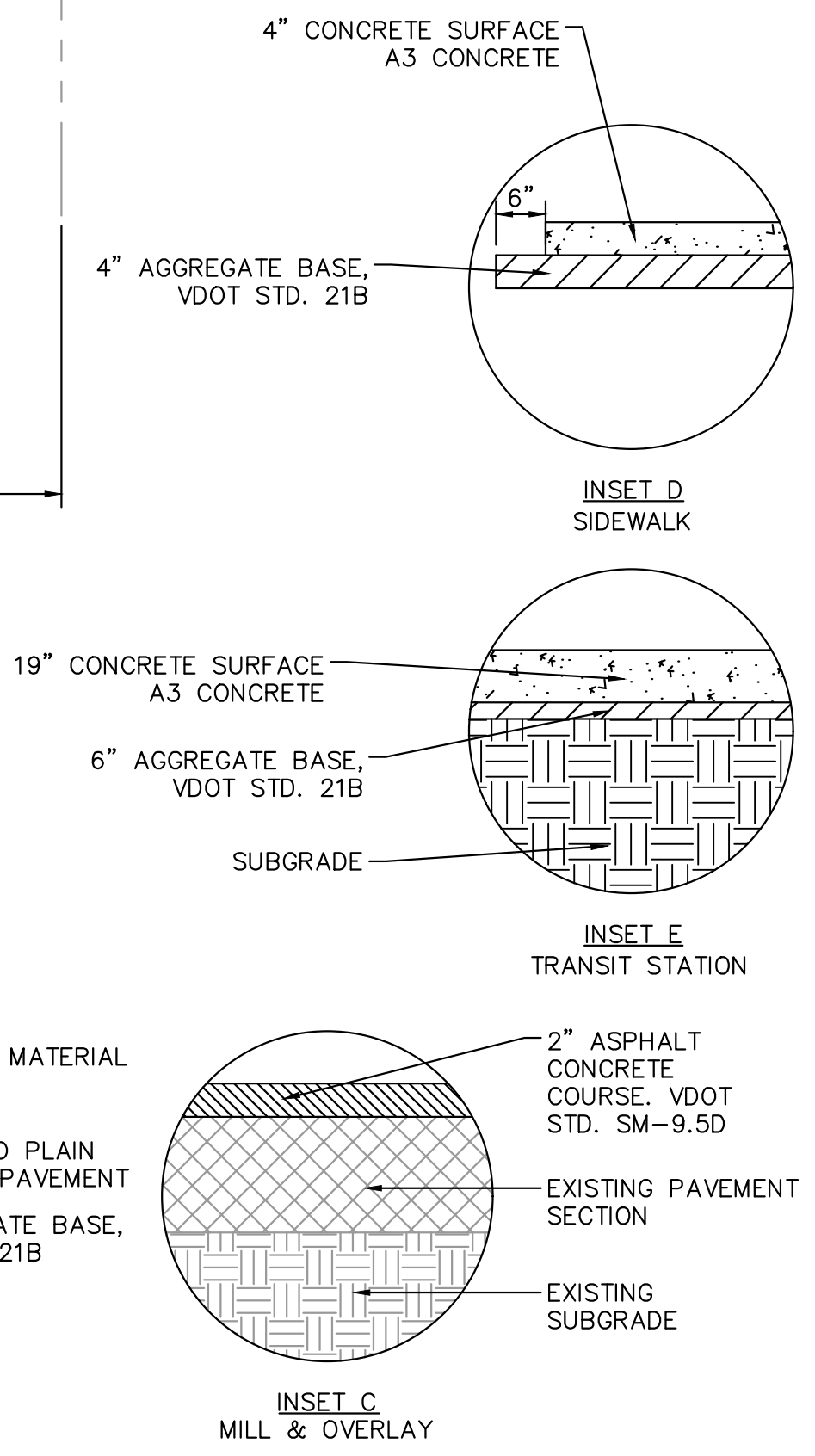
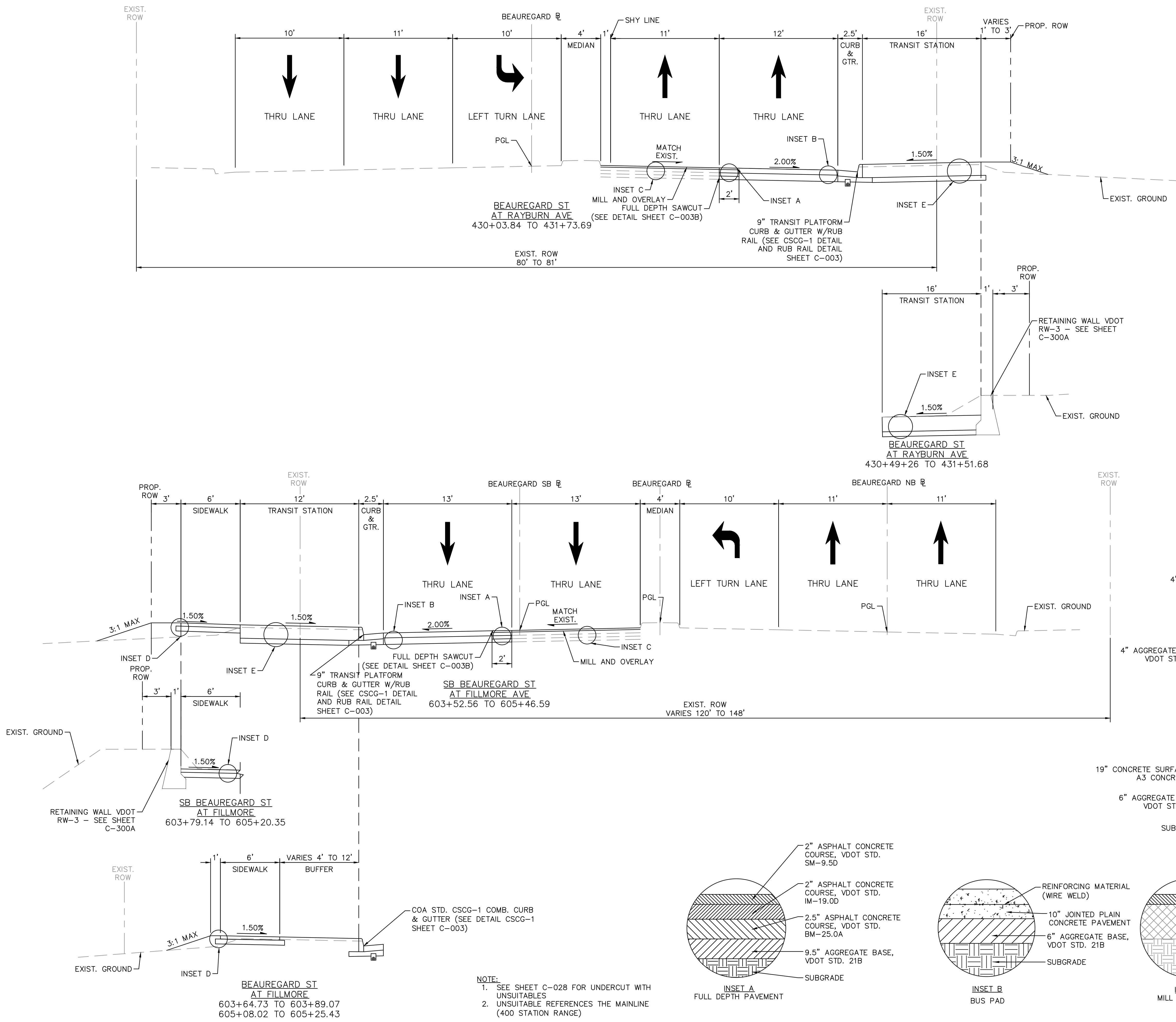
APPROVED BY: _____ DATE: _____

TYPICAL SECTIONS

SHEET C-024

SCALE NTS

Plotted By: Grovitt, Sydney Sheet Set: West End Transitway - Phase 1 Layout: C-025 TYPICAL SECTIONS July 25, 2024 10:25:39am K:\NVA_Transit\110104122_West_End_Transitway_Design\CADD\PlanSheets\TYPICAL_SECTIONS.dwg



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

TYPICAL SECTIONS

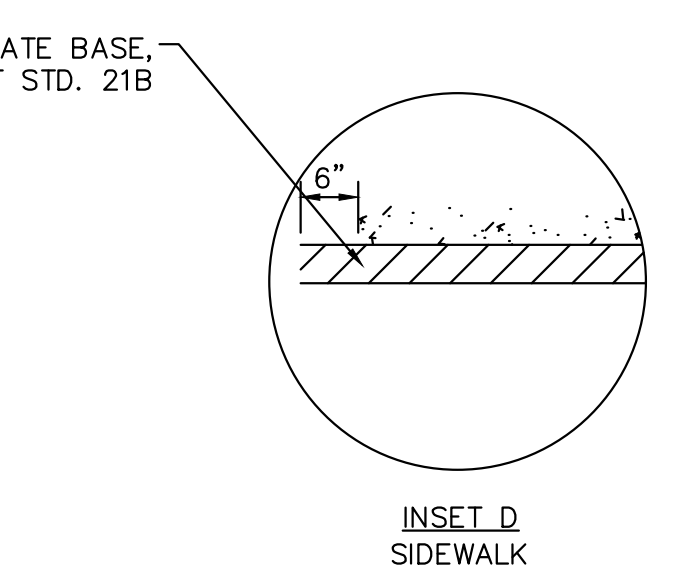
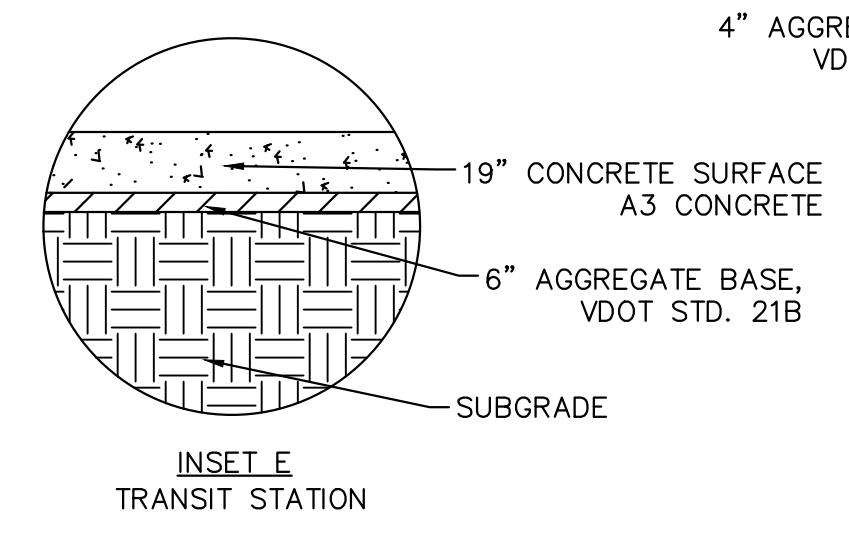
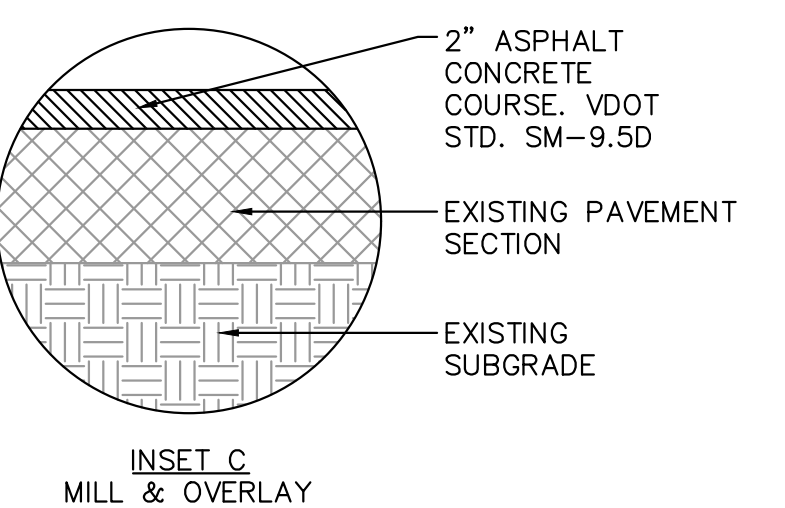
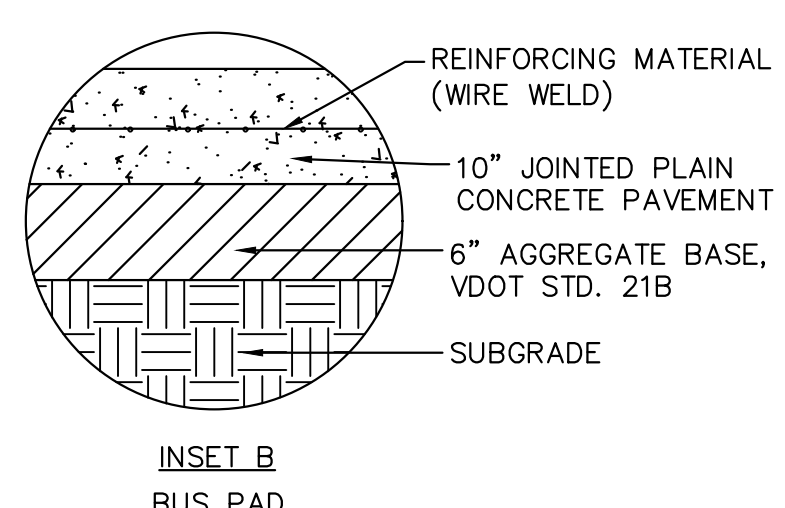
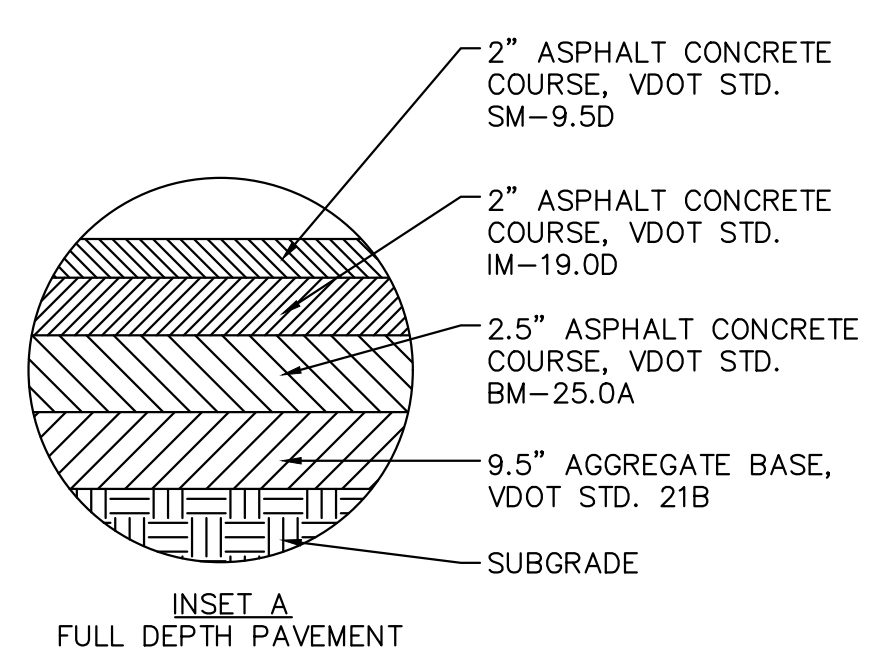
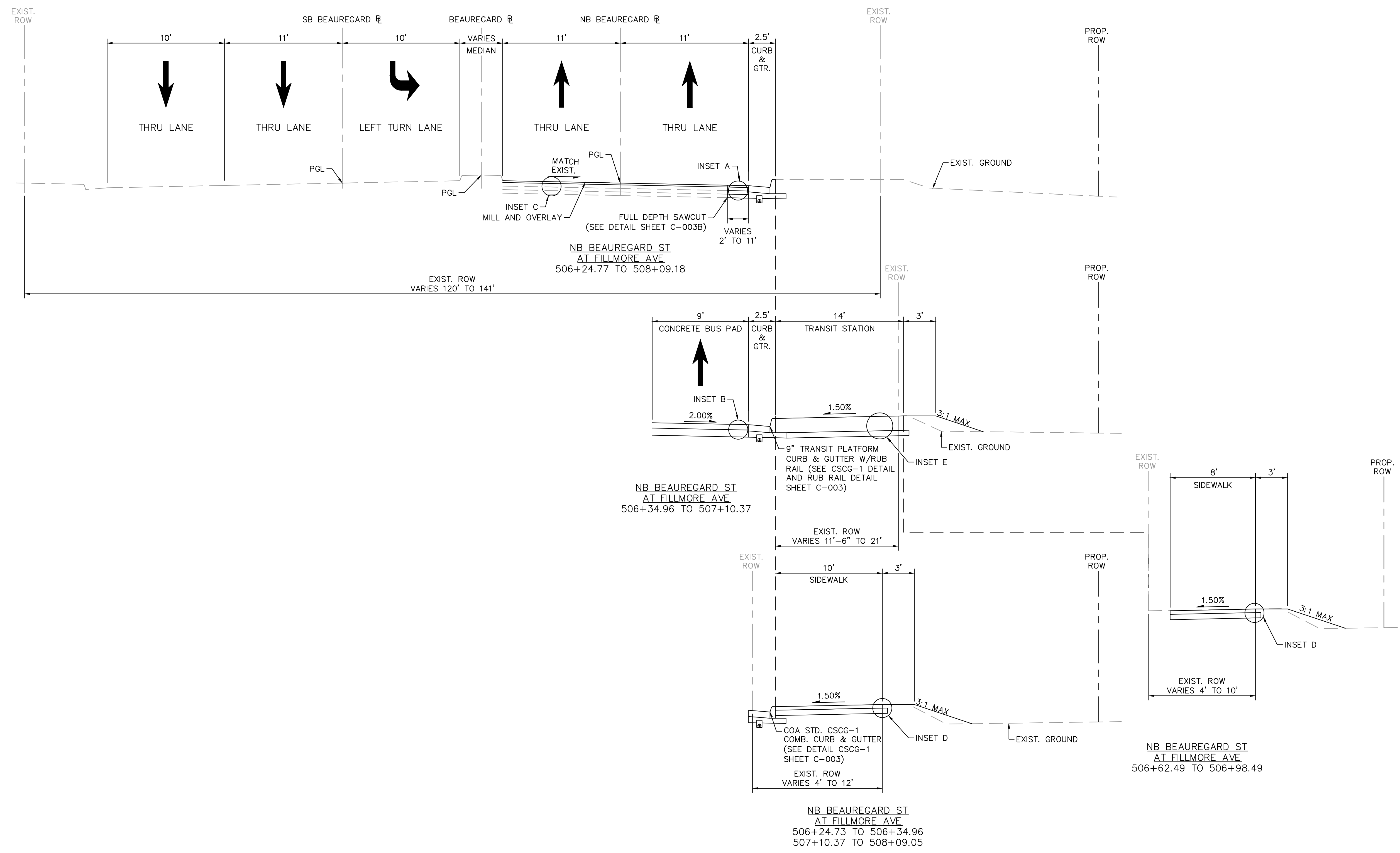
SHEET C-025
 SCALE NTS

CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

REVISIONS	DESCRIPTION
DATE	BY

ALEXANDRIA PROJECT NO.: 110104122
 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: MAT DATE: 4/5/24
 DRAWN BY: AUB DATE: 4/5/24
 CHECKED BY: EJD DATE: 4/5/24
 APPROVED BY: _____ DATE: _____

Plotted By: Grovitt, Sydney Sheet Set: West End Transitway - Phase 1 Layout: C-026 TYPICAL SECTIONS July 25, 2024 10:25:54am K:\NVA_Transit\110104122_West_End_Transitway_Design\CADD\PlanSheets\TYPICAL_SECTIONS.dwg



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS 90% DESIGN PHASE



CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

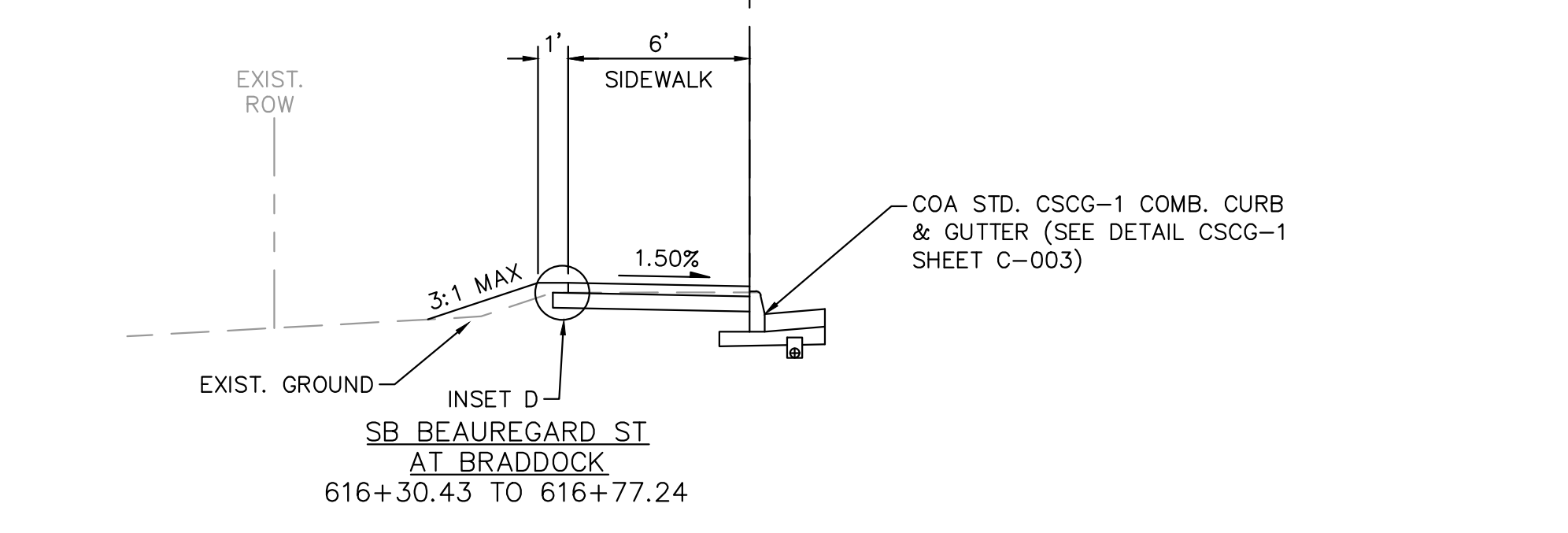
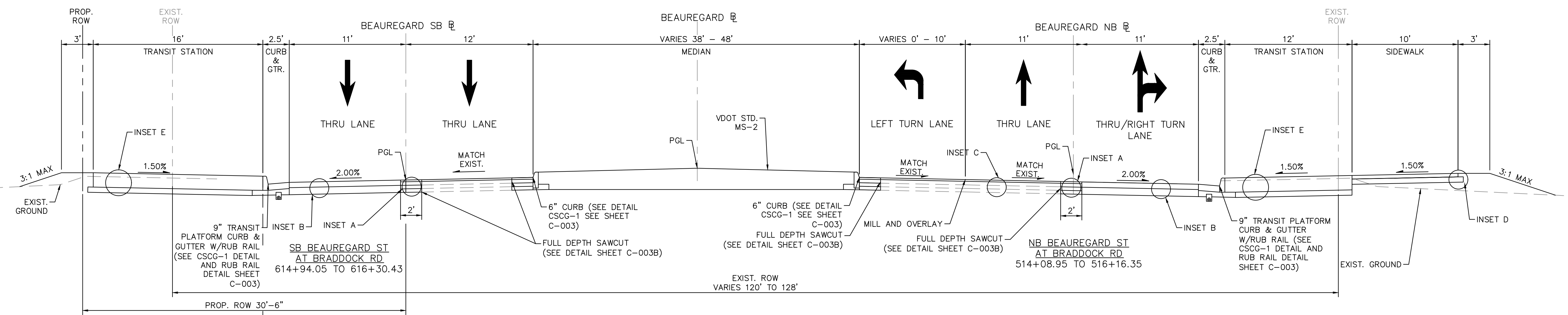
REVISIONS	DESCRIPTION
DATE	BY

ALEXANDRIA PROJECT NO.: 110104122
 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: MAT. DATE: 4/5/24
 DRAWN BY: AUB. DATE: 4/5/24
 CHECKED BY: EJD. DATE: 4/5/24
 APPROVED BY: _____ DATE: _____

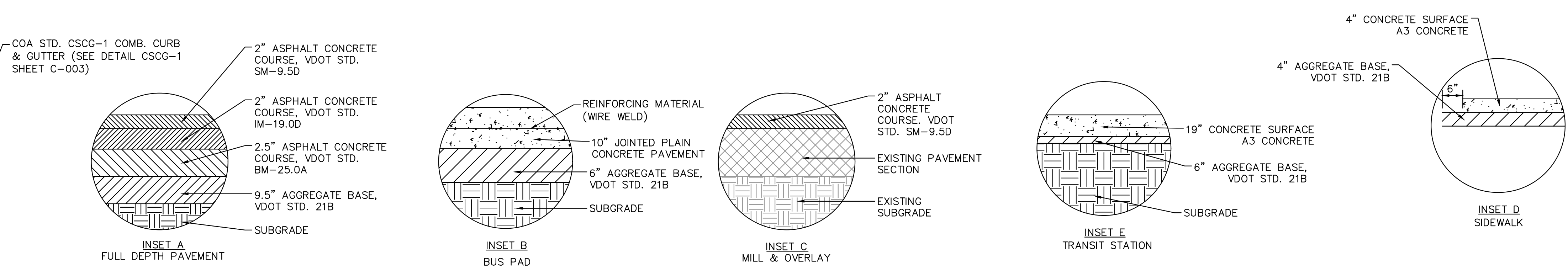
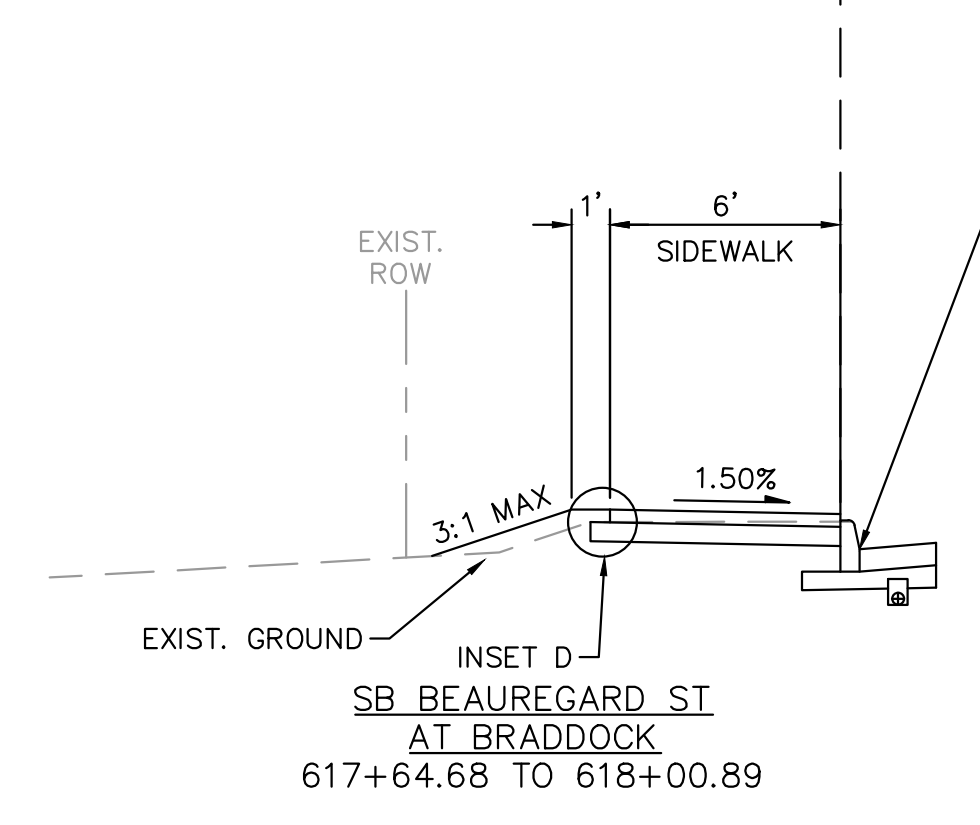
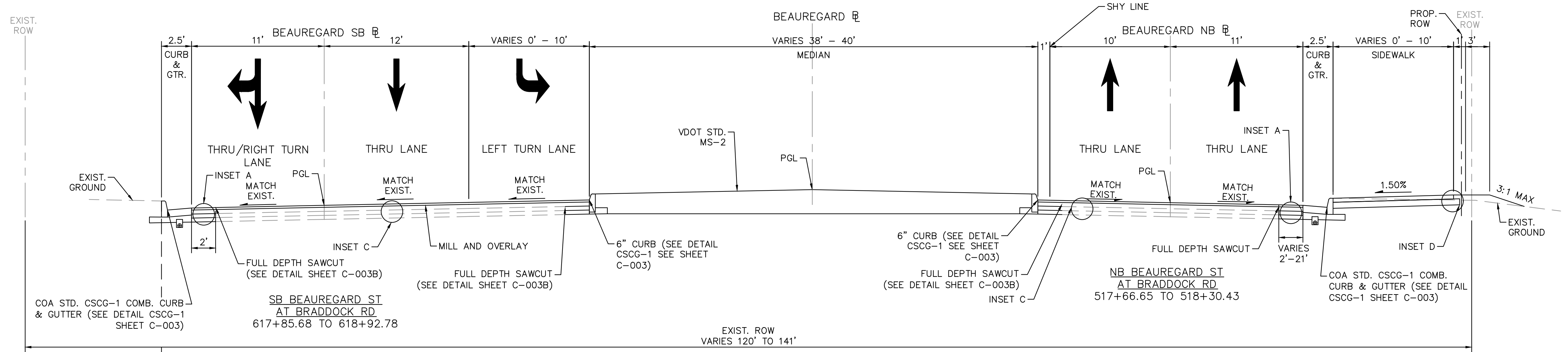
TYPICAL SECTIONS

SHEET
 C-026
 SCALE NTS

Plotted By: Grovitt, Sydney Sheet Set: West End Transitway - Phase 1 Layout: C-027 TYPICAL SECTIONS July 25, 2024 10:26:11am K:\NVA_Transit\10104122_West_End_Transitway_Design\CADD\PlanSheets\TYPICAL SECTIONS.dwg



NOTE:
 1. SEE SHEET C-028 FOR UNDERCUT WITH UNSUITABLES
 2. UNSUITABLE REFERENCES THE MAINLINE (400 STATION RANGE)



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

REVISIONS	DESCRIPTION

ALEXANDRIA PROJECT NO.: 110104122

DATE OF PLAN ISSUANCE: N/A

CONSULTANT PROJECT ID: N/A

DESIGNED BY: MAT DATE: 4/5/24

DRAWN BY: AUB DATE: 4/5/24

CHECKED BY: EJD DATE: 4/5/24

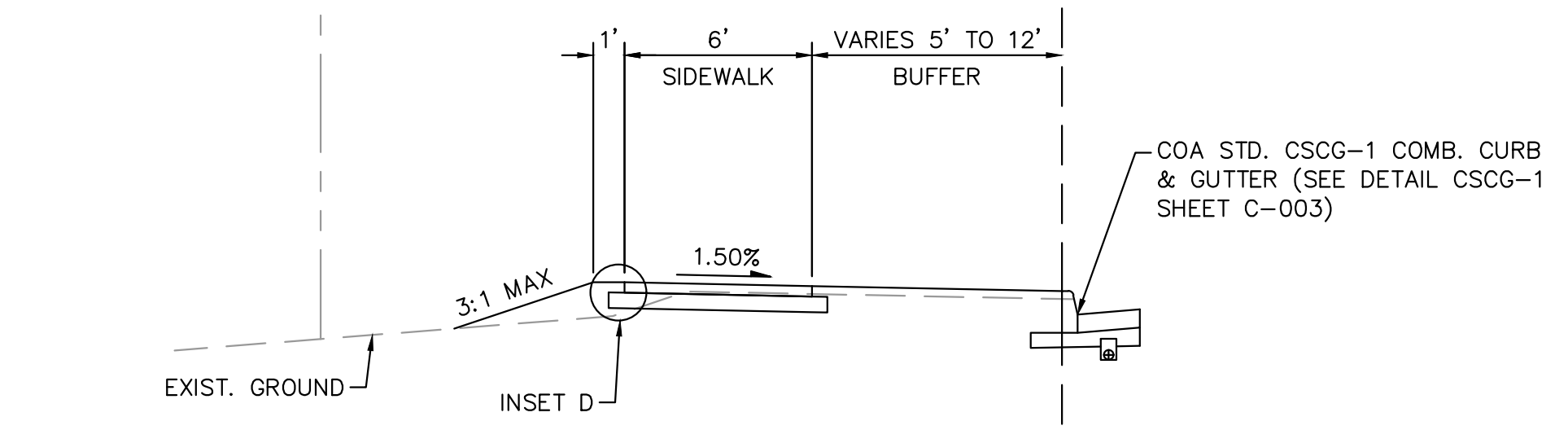
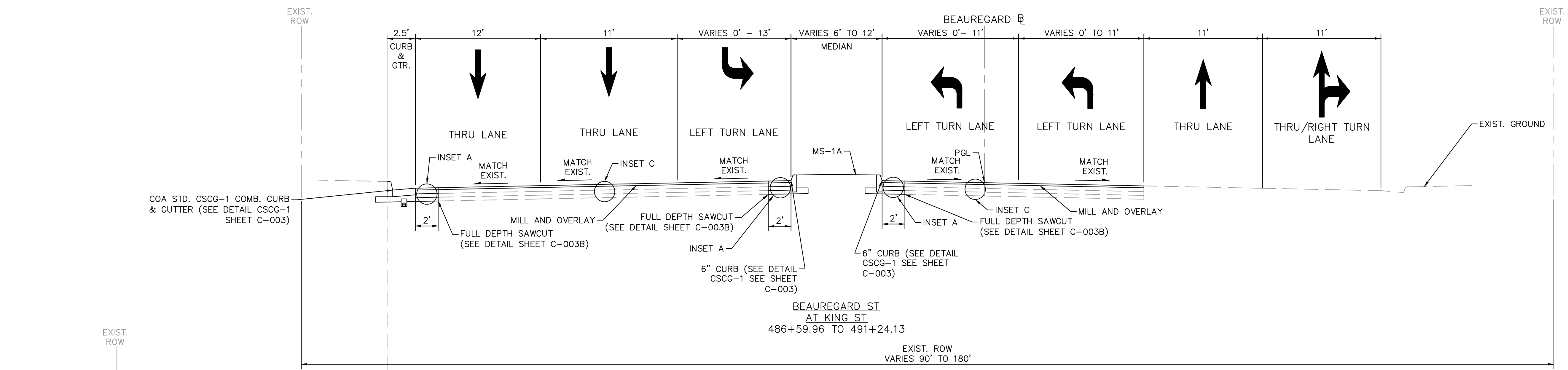
APPROVED BY: _____ DATE: _____

TYPICAL SECTIONS

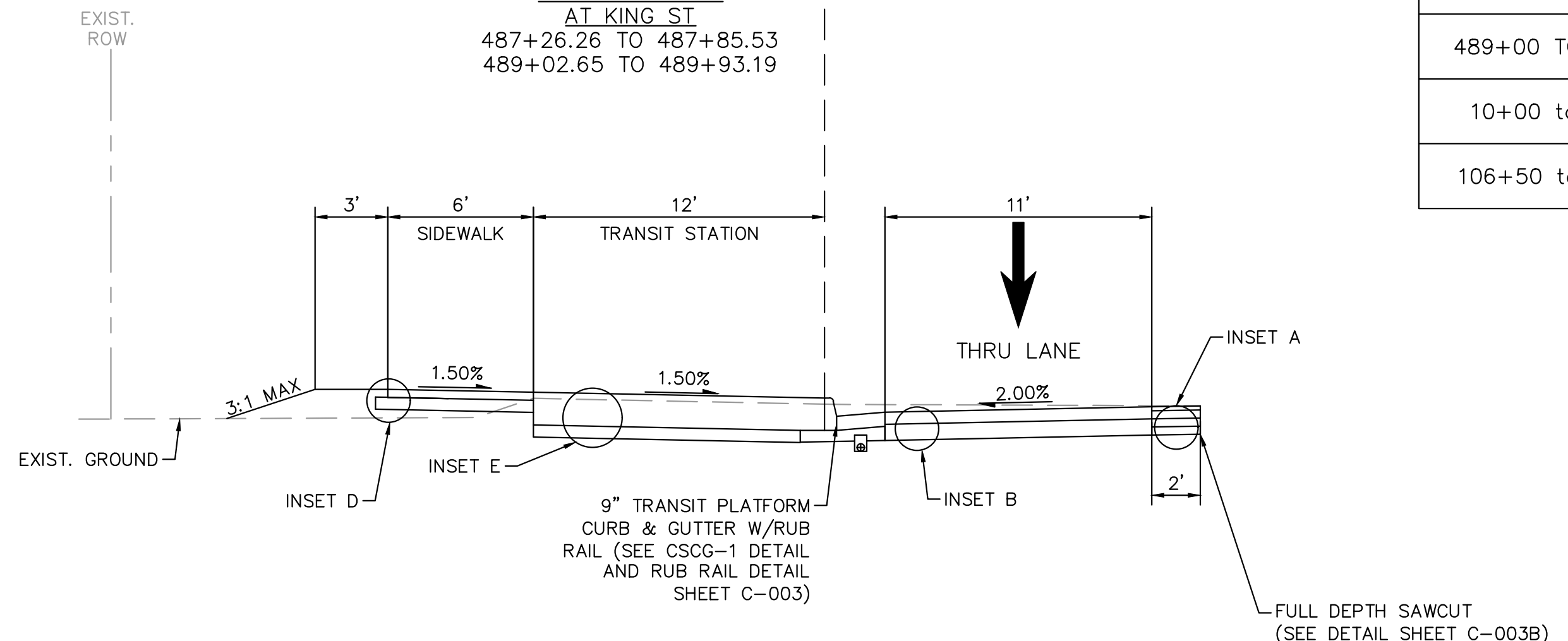
SHEET C-027

SCALE NTS

Plotted By: Grovitt, Sydney Sheet Set: West End Transitway - Phase 1 Layout: C-028 TYPICAL SECTIONS July 25, 2024 10:26:26am K:\NVA_Transit\110104122_West_End_Transitway_Design\CADD\PlanSheets\TYPICAL_SECTIONS.dwg

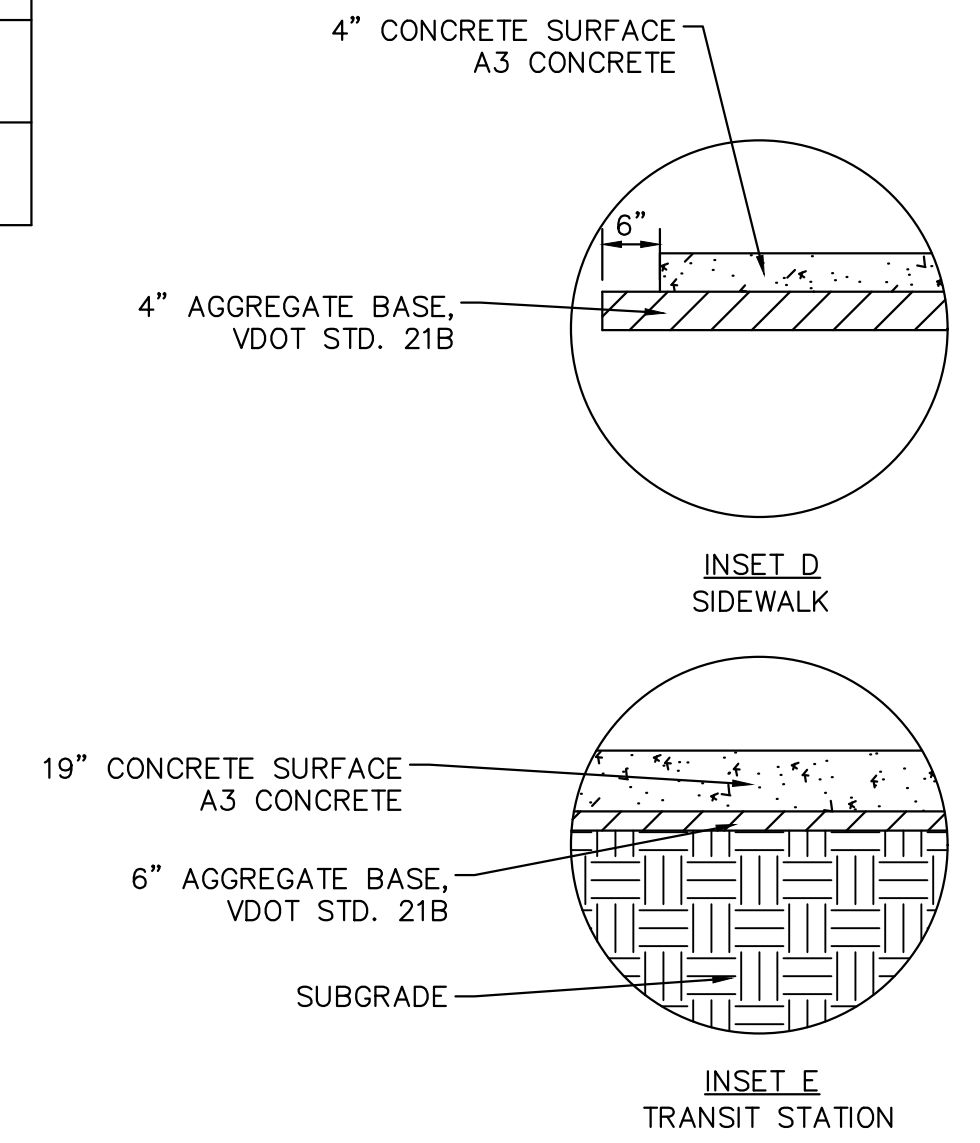
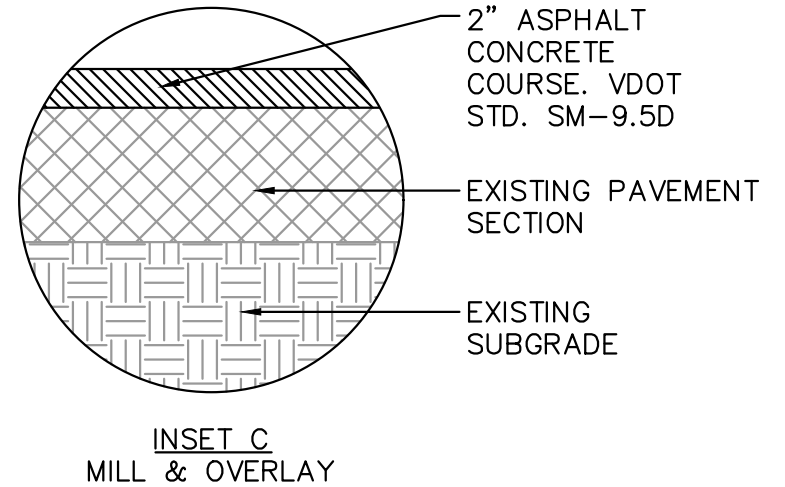
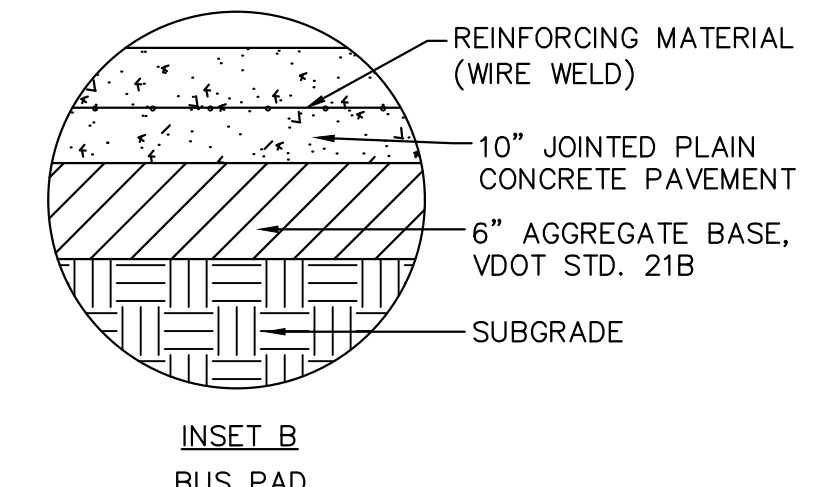
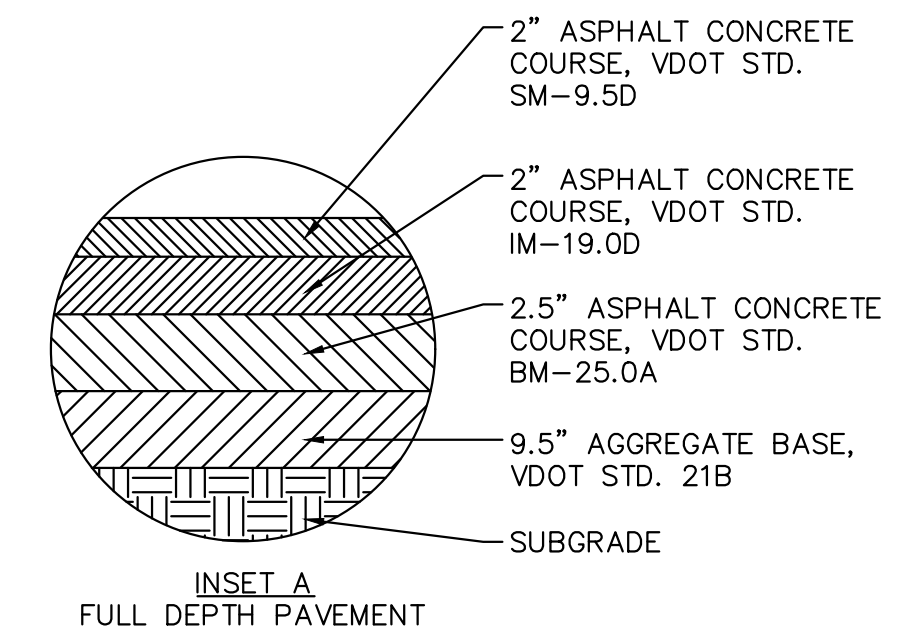


**BEAUREGARD ST
AT KING ST**
 487+26.26 TO 487+85.53
 489+02.65 TO 489+93.19



**BEAUREGARD ST
AT KING ST**
 487+85.53 TO 489+02.65

ESTIMATED UNDERCUT DEPTHS				
STATION RANGE	BORINGS	UNSUITABLE SOIL DEPTH (ft)	UNSUITABLE REASON	ESTIMATED UNDERCUT DEPTH (FT)
463+50 to 465+50	23BS-013	1.1 - 7.0	WET	3
474+00 to 477+00	23BS-015	0.0 - 4.0	HIGHLY PLASTIC SOIL	3
489+00 TO 491+00	23BS-018	2.0 - 6.0	LOOSE AND HIGHLY PLASTIC SOIL	3
10+00 to 12+00	23RB-001	0.0 - 4.0	HIGHLY PLASTIC SOIL	3
106+50 to 110+00	23RB-002	1.2 - 6.0	HIGHLY PLASTIC SOIL AND WET	3



NOTE:
 1. SEE SHEET C-028 FOR UNDERCUT WITH UNSUITABLES

WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS 90% DESIGN PHASE



CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

REVISIONS	DESCRIPTION
DATE	BY


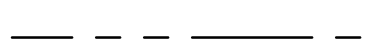

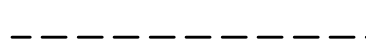
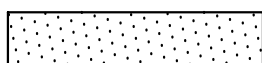
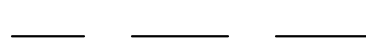

ALEXANDRIA PROJECT NO.: 110104122
 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: MAT DATE: 4/5/24
 DRAWN BY: AUB DATE: 4/5/24
 CHECKED BY: EJD DATE: 4/5/24
 APPROVED BY: _____ DATE: _____

TYPICAL SECTIONS

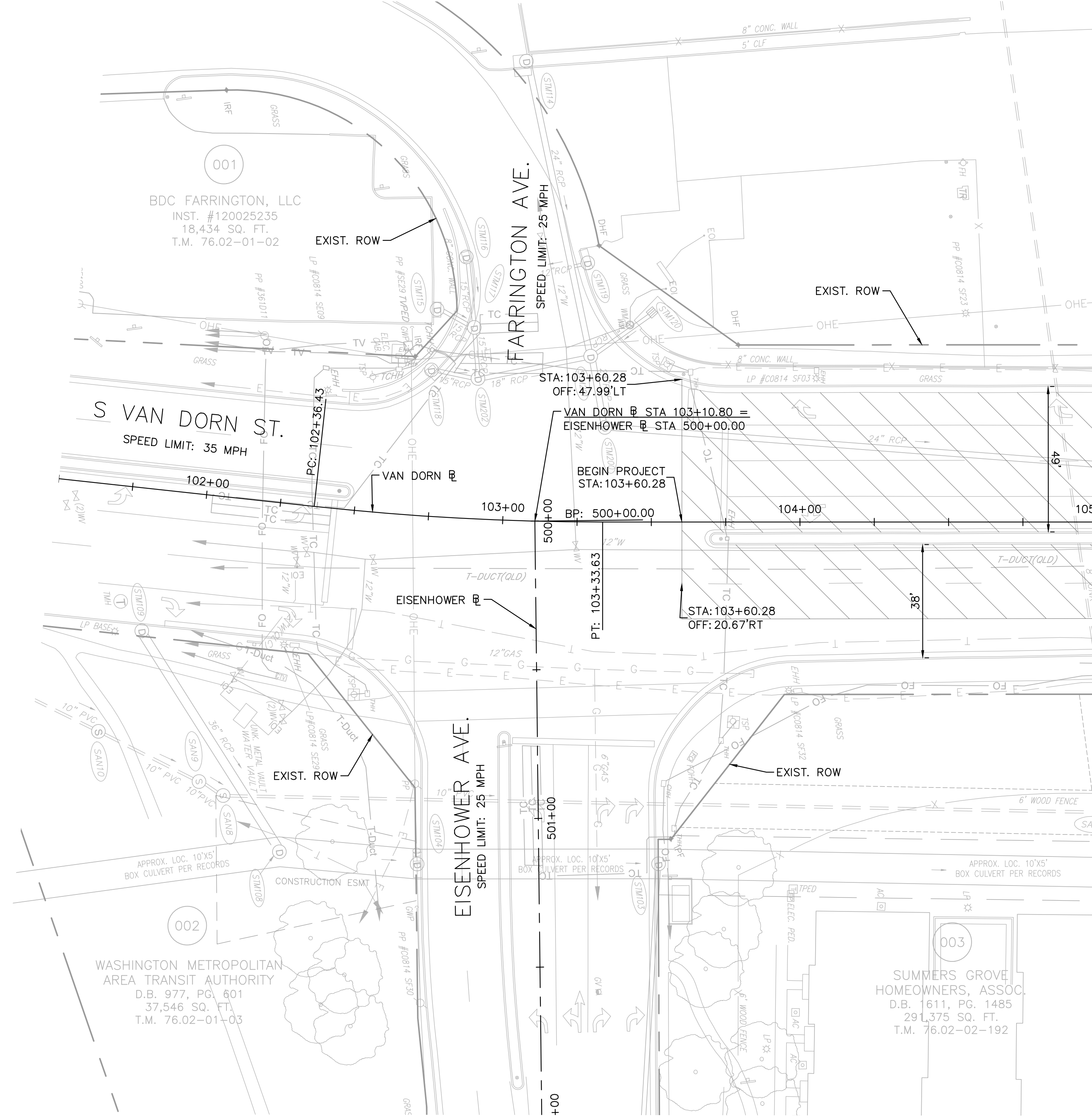
SHEET
 C-028
 SCALE NTS

Plotted By: Waring, Megan Sheet Set: West End Transitway - Phase 1 Layout: C-101 ROADWAY PLAN August 15, 2024 02:54:09pm K:\NVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\ROADWAY PLAN VAN DORN.dwg

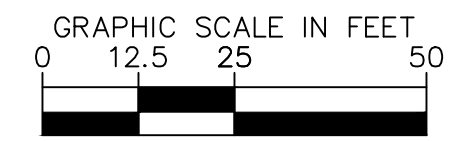
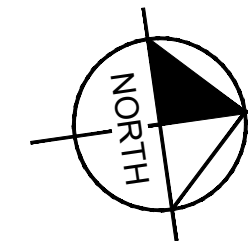
LEGEND:

	MILL AND OVERLAY		PROP. RIGHT OF WAY
	CLASS A3 CONCRETE		TEMP. CONST. EASEMENT
	FULL DEPTH ASPHALT PAVEMENT		FULL DEPTH SAWCUT
			EXISTING RIGHT OF WAY

NOTE:
ALL PROPOSED PIPES SHALL BE REINFORCED CONCRETE
PIPE CLASS IV WITH SILT TIGHT JOINT TYPE



MATCHLINE STA. 105+00 SEE SHEET C-102



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

ROADWAY PLAN - S
VAN DORN STREET AT
EISENHOWER AVENUE

SHEET
C-101
SCALE 1" = 25'

ALEXANDRIA PROJECT NO.:	110104122
DATE OF PLAN ISSUANCE:	N/A
CONSULTANT PROJECT ID.:	N/A
DESIGNED BY:	EJD DATE: 4/5/24
DRAWN BY:	MAT DATE: 4/5/24
CHECKED BY:	EJD DATE: 4/5/24
APPROVED BY:	DATE:

REVISIONS	DATE	DESCRIPTION

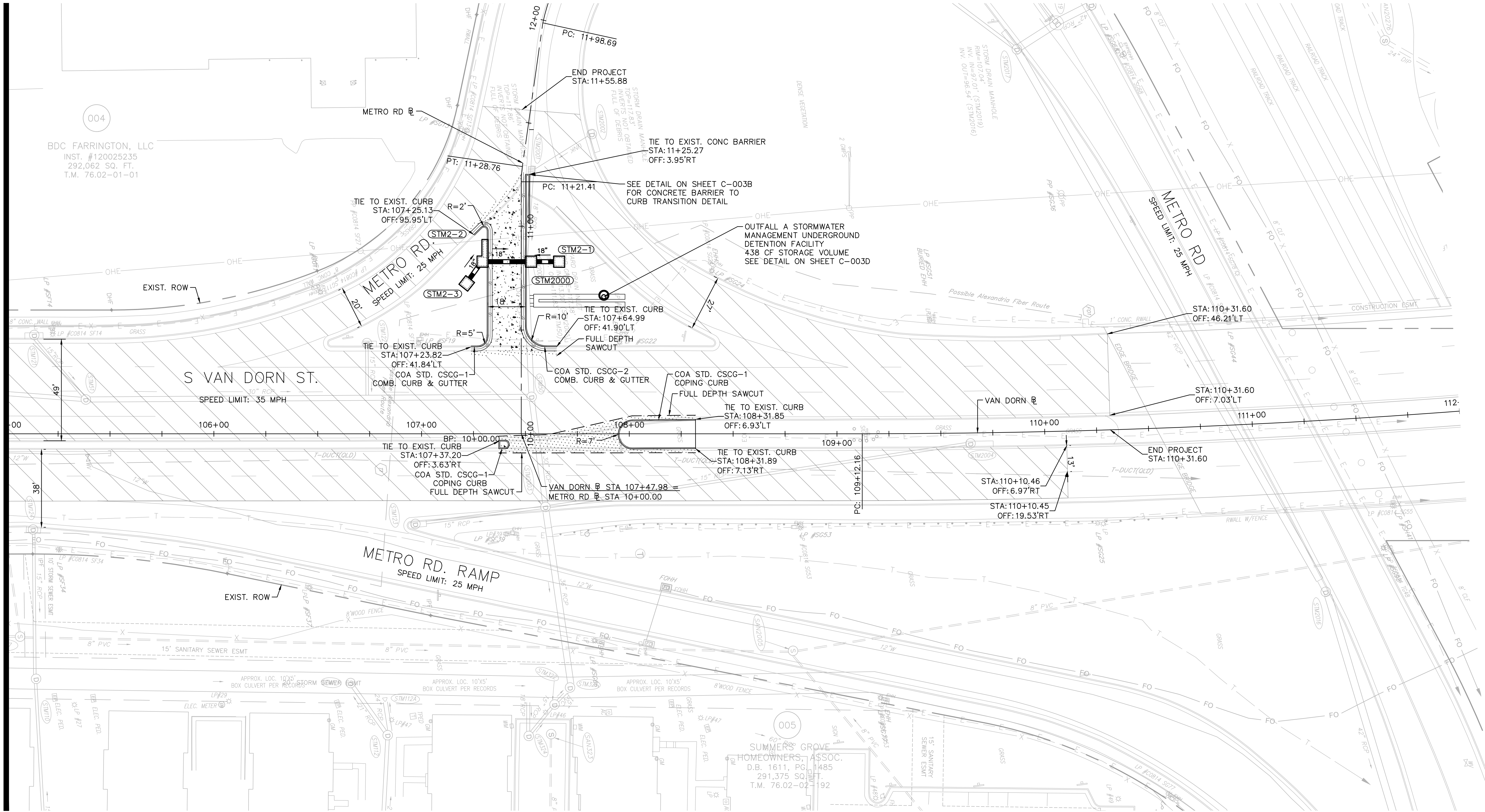
90% DESIGN PHASE




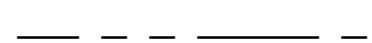

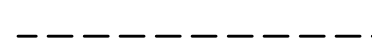
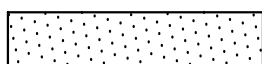
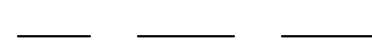

CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

Plotted By: Waring, Megan Sheet Set: West End Transitway - Phase 1 Layout-C-102 ROADWAY PLAN August 15, 2024 02:54:18pm K:\NVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\ROADWAY PLAN VAN DORN.dwg

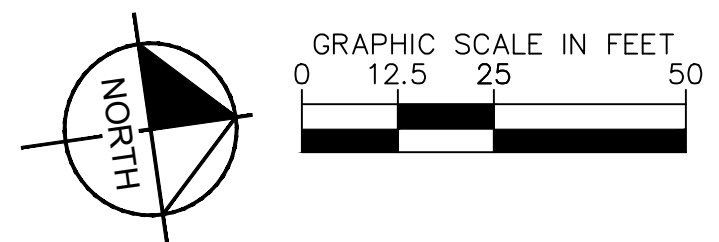
MATCHLINE STA. 105+00 SEE SHEET C-101



LEGEND:

	MILL AND OVERLAY		PROP. RIGHT OF WAY
	CLASS A3 CONCRETE		TEMP. CONST. EASEMENT
	FULL DEPTH ASPHALT PAVEMENT		FULL DEPTH SAWCUT
			EXISTING RIGHT OF WAY

NOTE:
ALL PROPOSED PIPES SHALL BE REINFORCED CONCRETE
PIPE CLASS IV WITH SILT TIGHT JOINT TYPE



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

**ROADWAY PLAN - S
VAN DORN STREET AT
METRO ROAD**

SHEET
C-102
SCALE 1" = 25'

90% DESIGN PHASE

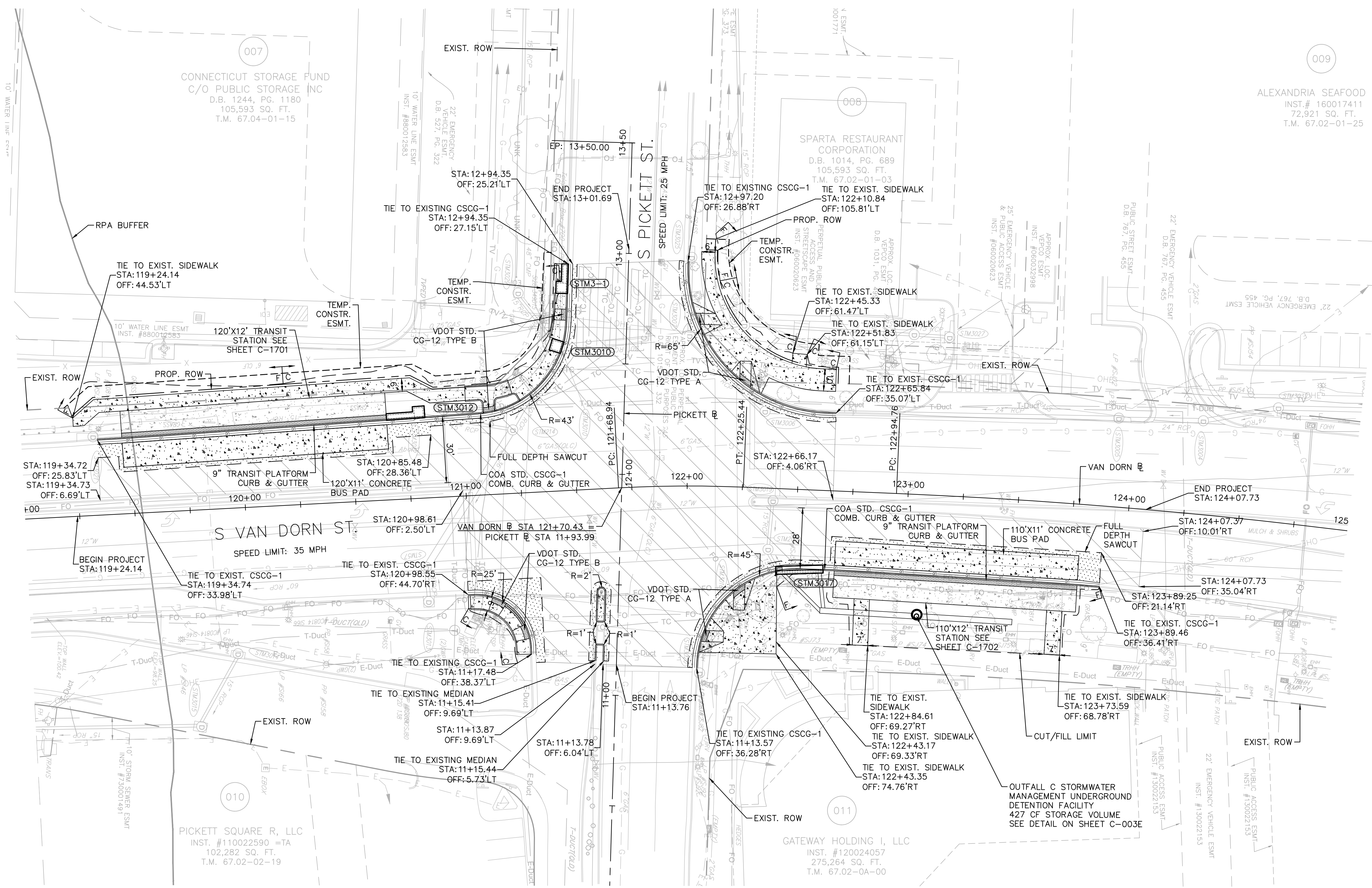
CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

REVISIONS	DESCRIPTION
DATE	
BY	



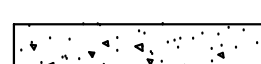

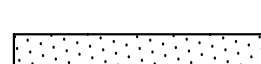


ALEXANDRIA PROJECT NO.: 110104122
DATE OF PLAN ISSUANCE: N/A
CONSULTANT PROJECT ID: N/A
DESIGNED BY: EJD DATE: 4/5/24
DRAWN BY: SJC DATE: 4/5/24
CHECKED BY: EJD DATE: 4/5/24
APPROVED BY: _____ DATE: _____



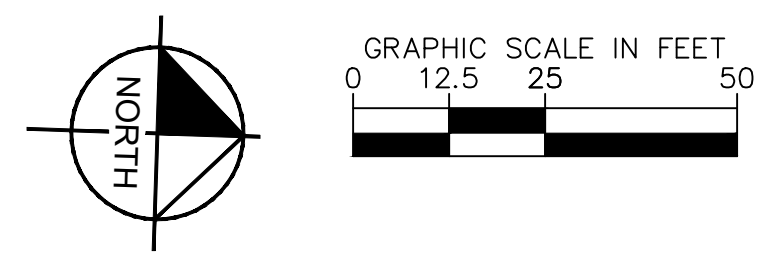
Plotted By: Waring, Megan Sheet Set: West End Transitway - Phase 1 Layout: C-103 ROADWAY PLAN August 15, 2024 02:54:26pm K:\NVA_Transit\110104122_West_End_Transitway_Design\CADD\PlanSheets\ROADWAY PLAN VAN DORN.dwg



LEGEND:

	MILL AND OVERLAY		PROP. RIGHT OF WAY
	CLASS A3 CONCRETE		TEMP. CONST. EASEMENT
	FULL DEPTH ASPHALT PAVEMENT		FULL DEPTH SAWCUT
			EXISTING RIGHT OF WAY

NOTE:
ALL PROPOSED PIPES SHALL BE REINFORCED CONCRETE PIPE CLASS IV WITH SILT TIGHT JOINT TYPE



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS **90% DESIGN PHASE**



CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

REVISIONS	DESCRIPTION
DATE	BY

ALEXANDRIA PROJECT NO.: 110104122
DATE OF PLAN ISSUANCE: N/A
CONSULTANT PROJECT ID: N/A
DESIGNED BY: EJD DATE: 4/5/24
DRAWN BY: SJC DATE: 4/5/24
CHECKED BY: EJD DATE: 4/5/24
APPROVED BY: _____ DATE: _____

**ROADWAY PLAN - S
VAN DORN STREET AT S
PICKETT STREET**

SHEET
C-103
SCALE 1" = 25'

Plotted By: Waring, Megan Sheet: West End Transitway - Phase 1 Layout: C-104 ROADWAY PLAN August 15, 2024 02:54:35pm K:\NVA_Transit\10104122_West End Transitway Design\CADD\PlanSheets\ROADWAY PLAN VAN DORN.dwg

012

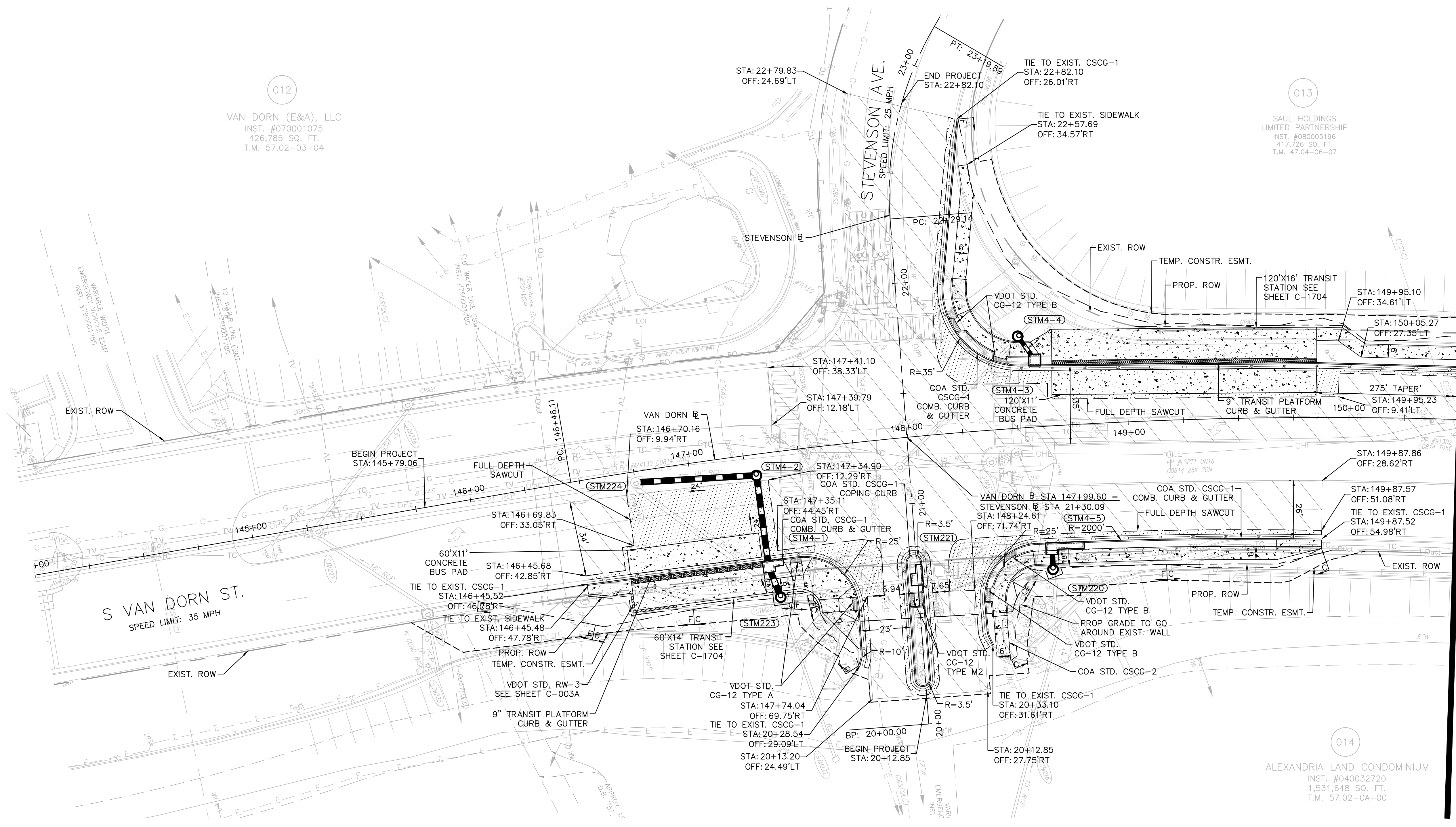
VAN DORN (E&A), LLC
 INST. #070001075
 426,785 SQ. FT.
 T.M. 57.02-03-04

013

SAUL HOLDINGS
 LIMITED PARTNERSHIP
 INST. #080005196
 417,726 SQ. FT.
 T.M. 47.04-06-07

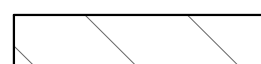

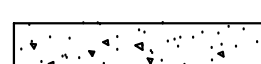

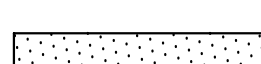


014

ALEXANDRIA LAND CONDOMINIUM
 INST. #040032720
 1,531,648 SQ. FT.
 T.M. 57.02-0A-00

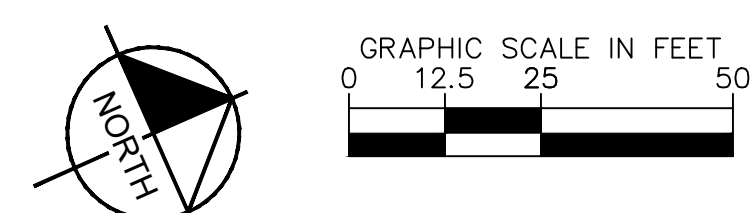


MATCHLINE STA. 150+50 SEE SHEET C-105

LEGEND:

	MILL AND OVERLAY		PROP. RIGHT OF WAY
	CLASS A3 CONCRETE		TEMP. CONST. EASEMENT
	FULL DEPTH ASPHALT PAVEMENT		FULL DEPTH SAWCUT
			EXISTING RIGHT OF WAY

NOTE:
 ALL PROPOSED PIPES SHALL BE REINFORCED CONCRETE
 PIPE CLASS IV WITH SILT TIGHT JOINT TYPE



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS 90% DESIGN PHASE



CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

REVISIONS	DATE	DESCRIPTION

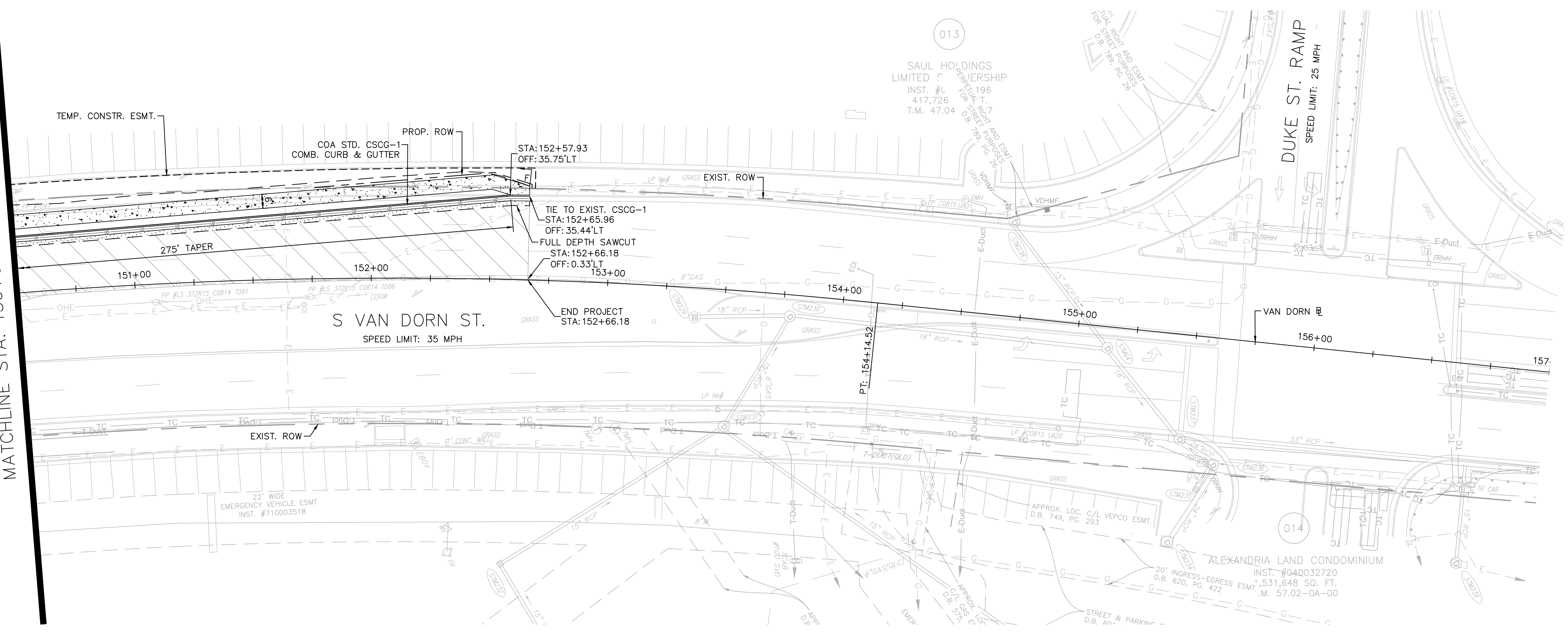
ALEXANDRIA PROJECT NO.: 110104122
 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: EJD DATE: 4/5/24
 DRAWN BY: SJG DATE: 4/5/24
 CHECKED BY: EJD DATE: 4/5/24
 APPROVED BY: _____ DATE: _____

ROADWAY PLAN - S
 VAN DORN STREET AT
 STEVENSON AVENUE

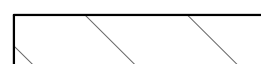
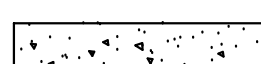
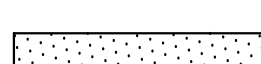




SHEET
 C-104
 SCALE 1" = 25'

Plotted By: Waring, Megan Sheet Set: West End Transitway - Phase 1 Layout: C-105 ROADWAY PLAN August 15, 2024 02:54:43pm K:\NVA_Transit\110104122_West_End_Transitway_Design\CADD\PlanSheets\ROADWAY PLAN VAN DORN.dwg

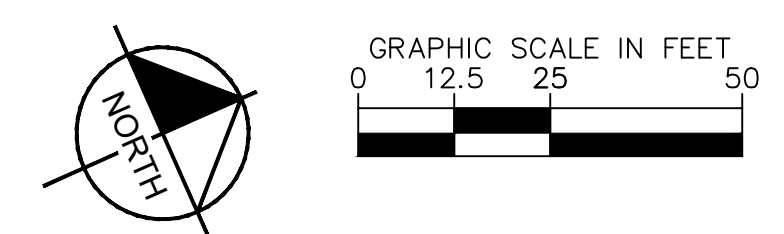
MATCHLINE STA. 150+50 SEE SHEET C-104



LEGEND:

-  MILL AND OVERLAY
-  CLASS A3 CONCRETE
-  FULL DEPTH ASPHALT PAVEMENT
-  PROP. RIGHT OF WAY
-  TEMP. CONST. EASEMENT
-  FULL DEPTH SAWCUT
-  EXISTING RIGHT OF WAY

NOTE:
ALL PROPOSED PIPES SHALL BE REINFORCED CONCRETE
PIPE CLASS IV WITH SILT TIGHT JOINT TYPE



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

ROADWAY PLAN - S
VAN DORN STREET AT
DUKE STREET RAMP

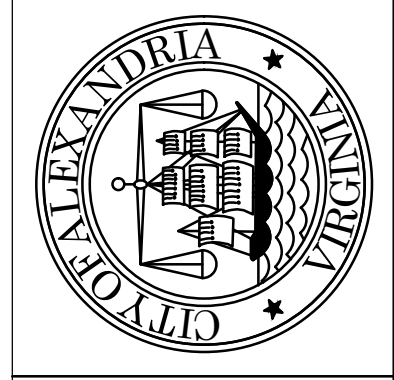
SHEET
C-105
SCALE 1" = 25'

PROJECT NO.	ISSUANCE	DATE	DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY
ALEXANDRIA 110104122	N/A					
CONSULTANT PROJECT ID:	N/A		7/8/24	7/8/24	7/8/24	7/8/24

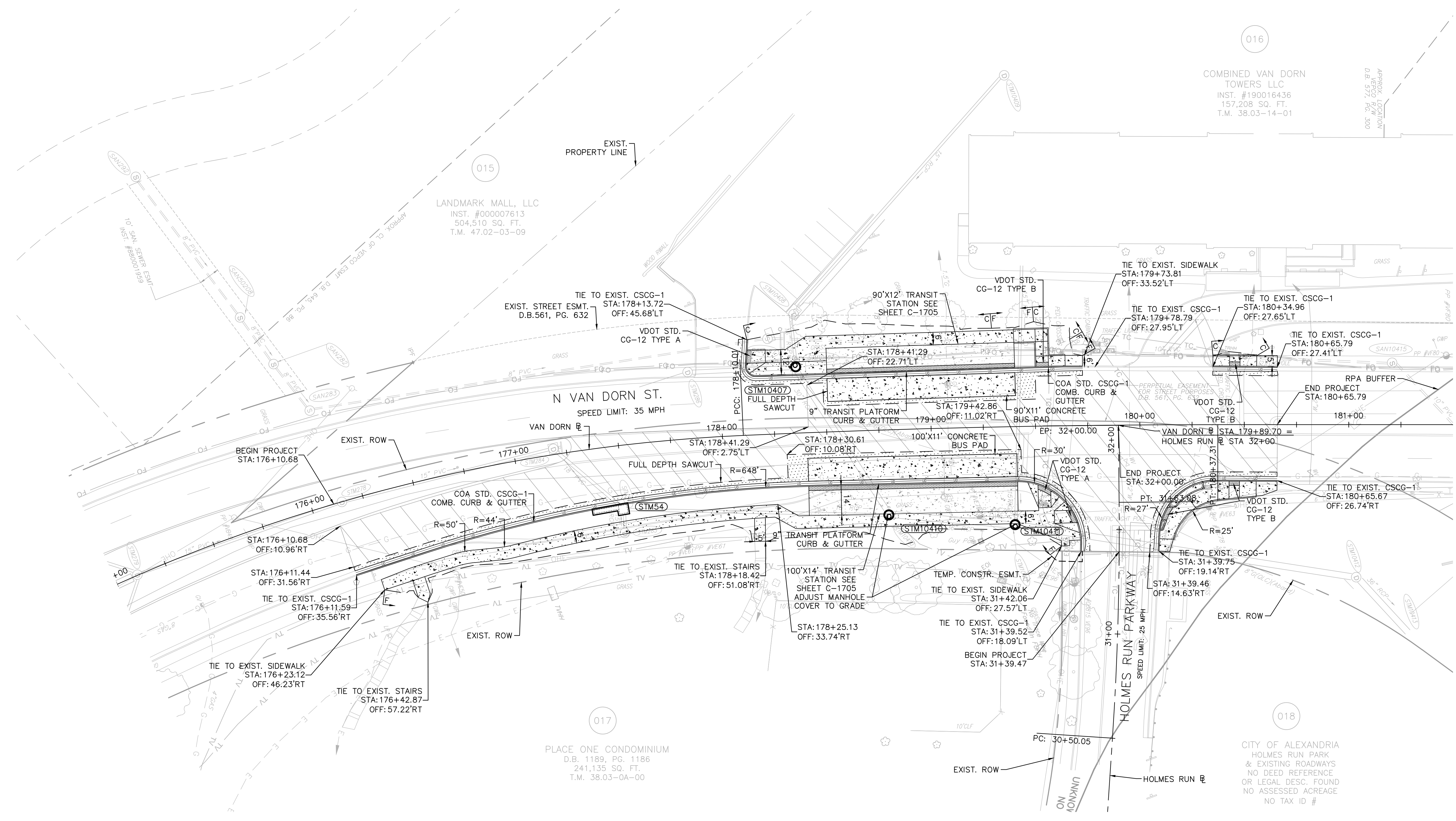
REVISIONS	DESCRIPTION
DATE	
BY	

90% DESIGN PHASE

CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313



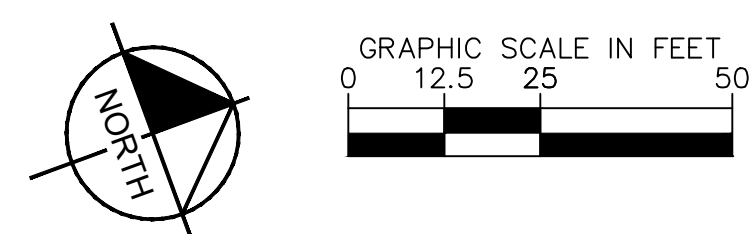
Plotted By: Waring, Megan Sheet Set: West End Transitway - Phase 1 Layout: C-106 ROADWAY PLAN - VAN DORN.dwg K:\NVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\ROADWAY PLAN VAN DORN.dwg August 15, 2024 02:54:52pm



LEGEND:

	MILL AND OVERLAY		PROP. RIGHT OF WAY
	CLASS A3 CONCRETE		TEMP. CONST. EASEMENT
	FULL DEPTH ASPHALT PAVEMENT		FULL DEPTH SAWCUT
			EXISTING RIGHT OF WAY

NOTE:
 ALL PROPOSED PIPES SHALL BE REINFORCED CONCRETE
 PIPE CLASS IV WITH SILT TIGHT JOINT TYPE



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

90% DESIGN PHASE

REVISIONS	DESCRIPTION

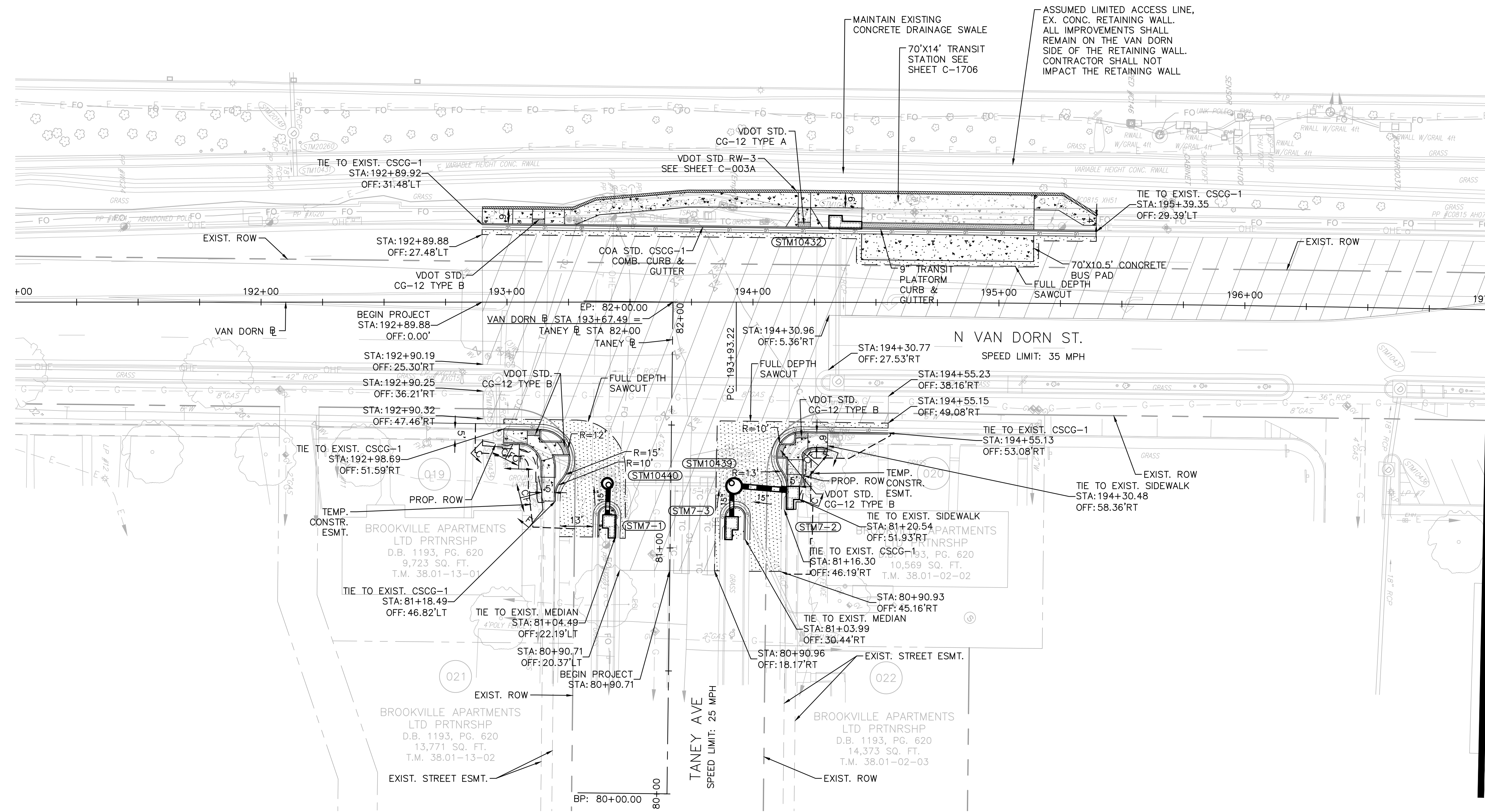
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ROADWAY PLAN - N VAN DORN STREET AT HOLMES RUN PARKWAY

SHEET C-106

SCALE 1" = 25'

Plotted By: Waring, Megan Sheet Set: West End Transitway - Phase 1 Layout: C-107 ROADWAY PLAN August 15, 2024 02:54:58pm K:\NVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\ROADWAY PLAN VAN DORN.dwg

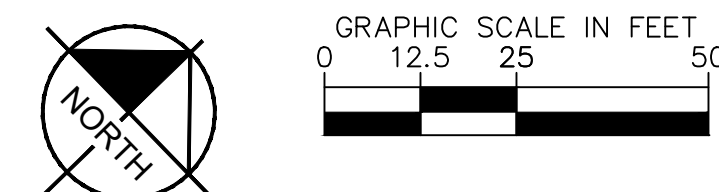


LEGEND:

	MILL AND OVERLAY		PROP. RIGHT OF WAY
	CLASS A3 CONCRETE		TEMP. CONST. EASEMENT
	FULL DEPTH ASPHALT PAVEMENT		FULL DEPTH SAWCUT
			EXISTING RIGHT OF WAY

NOTE:
 ALL PROPOSED PIPES SHALL BE REINFORCED CONCRETE
 PIPE CLASS IV WITH SILT TIGHT JOINT TYPE

MATCHLINE STA. 197+00 SEE SHEET C-108



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

90% DESIGN PHASE

REVISIONS	DESCRIPTION

ALEXANDRIA PROJECT NO.: 110104122	DATE OF PLAN ISSUANCE: N/A	CONSULTANT PROJECT ID: N/A	DESIGNED BY: EJD DATE: 4/5/24	DRAWN BY: SJG DATE: 4/5/24	CHECKED BY: EJD DATE: 4/5/24	APPROVED BY: _____ DATE: _____
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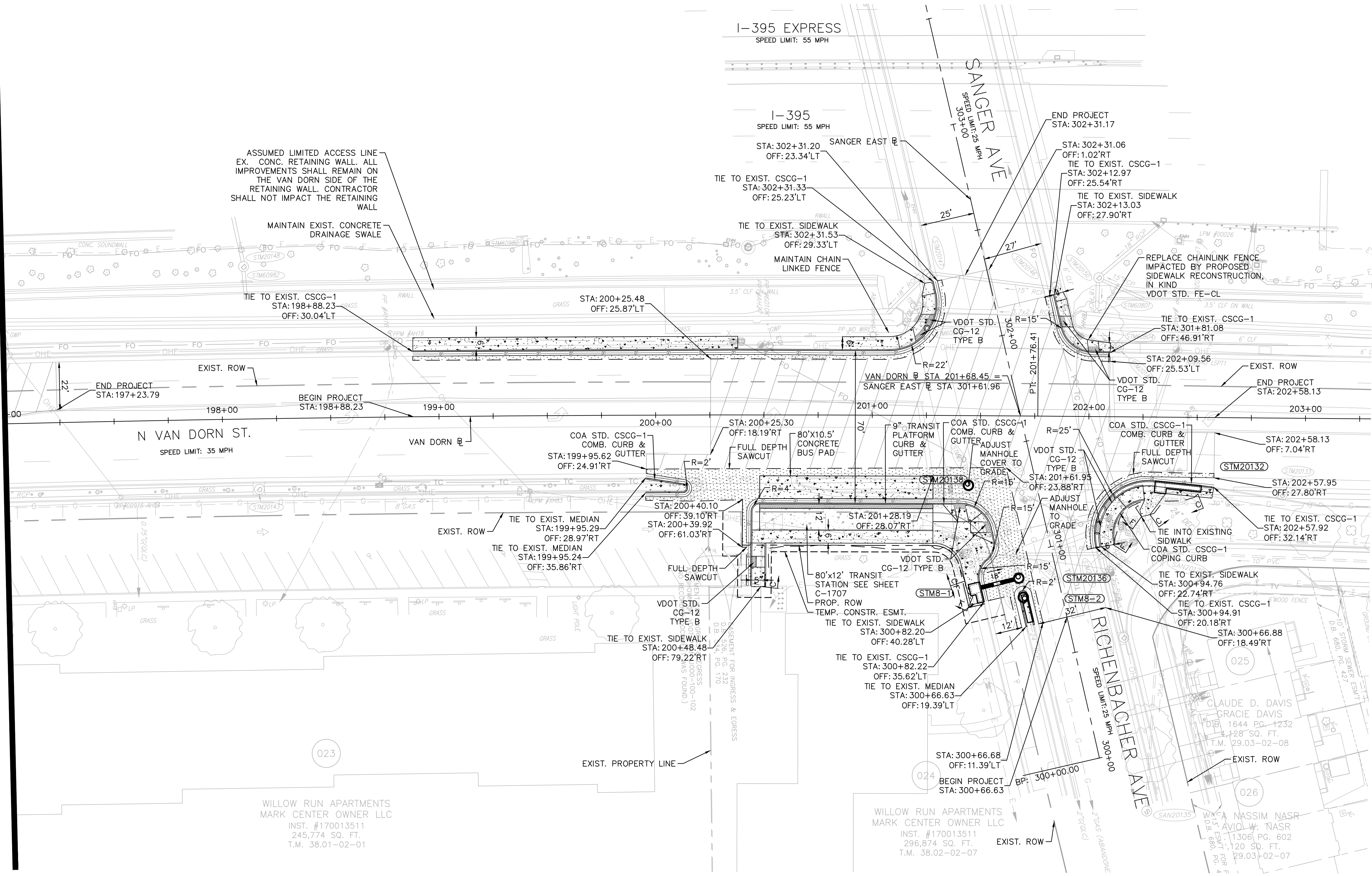
ROADWAY PLAN - N VAN DORN STREET AT TANEE AVENUE

SHEET C-107

SCALE 1" = 25'

Plotted By: Waring, Megan Sheet Set: West End Transitway - Phase 1 Layout: C-108 ROADWAY PLAN August 15, 2024 02:55:07pm K:\NVA_Transit\110104122_West_End_Transitway_Design\CADD\PlanSheets\ROADWAY PLAN VAN DORN.dwg

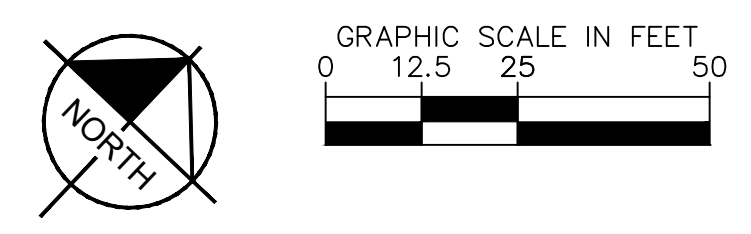
MATCHLINE STA. 197+00 SEE SHEET C-107



LEGEND:

	MILL AND OVERLAY		PROP. RIGHT OF WAY
	CLASS A3 CONCRETE		TEMP. CONST. EASEMENT
	FULL DEPTH ASPHALT PAVEMENT		FULL DEPTH SAWCUT
			EXISTING RIGHT OF WAY

NOTE:
ALL PROPOSED PIPES SHALL BE REINFORCED CONCRETE PIPE CLASS IV WITH SILT TIGHT JOINT TYPE



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS 90% DESIGN PHASE



CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

REVISIONS	DESCRIPTION
DATE	
BY	

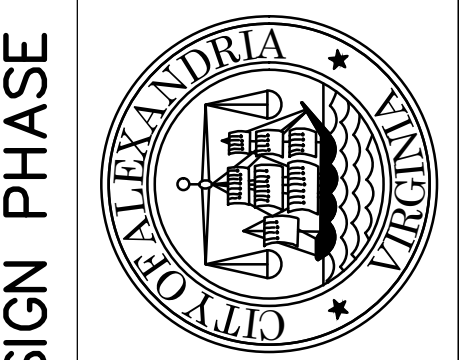
ALEXANDRIA PROJECT NO.:	110104122
DATE OF PLAN ISSUANCE:	N/A
CONSULTANT PROJECT ID.:	N/A
DESIGNED BY:	EJD DATE: 4/5/24
DRAWN BY:	SUG DATE: 4/5/24
CHECKED BY:	EJD DATE: 4/5/24
APPROVED BY:	DATE:

ROADWAY PLAN - N VAN DORN STREET AT SANGER AVENUE

SHEET C-108

SCALE 1" = 25'

Plotted By: Lising, Andrew Sheet Set: West End Transitway - Phase 1 Layout: C-109 ROADWAY PLAN July 02, 2024 02:27:28pm K:\NVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\ROADWAY PLAN.dwg

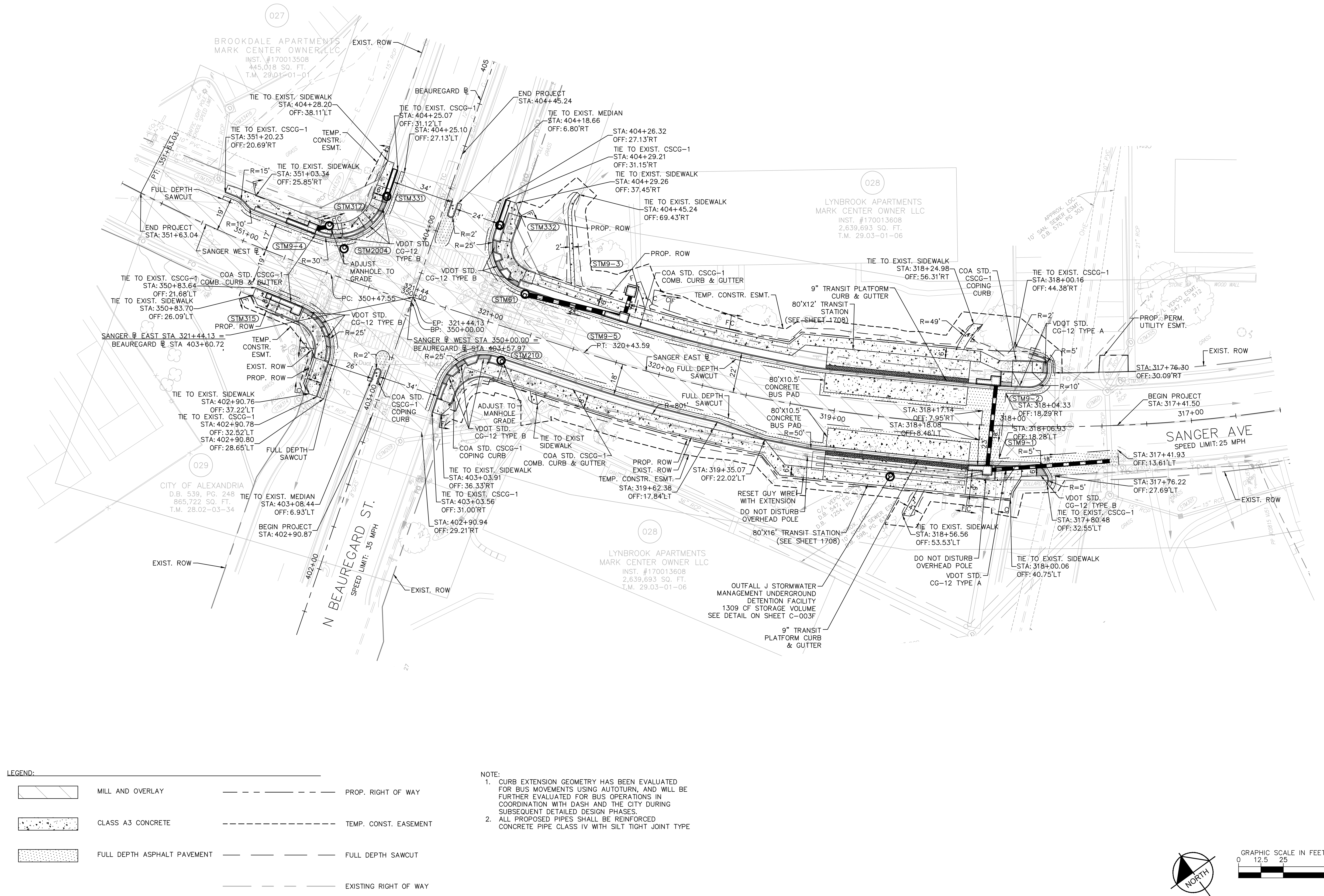


CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

REVISIONS	DATE	DESCRIPTION

WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS
ROADWAY PLAN - N
BEAUREGARD STREET AT
SANGER AVENUE
 SHEET
 C-109
 SCALE 1" = 25'

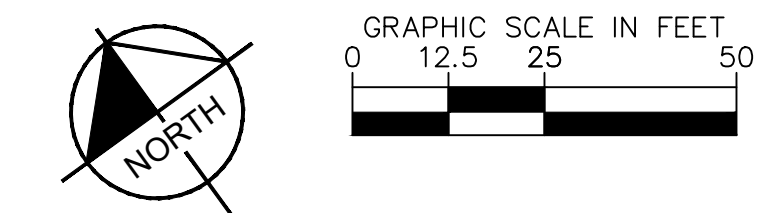
90% DESIGN PHASE



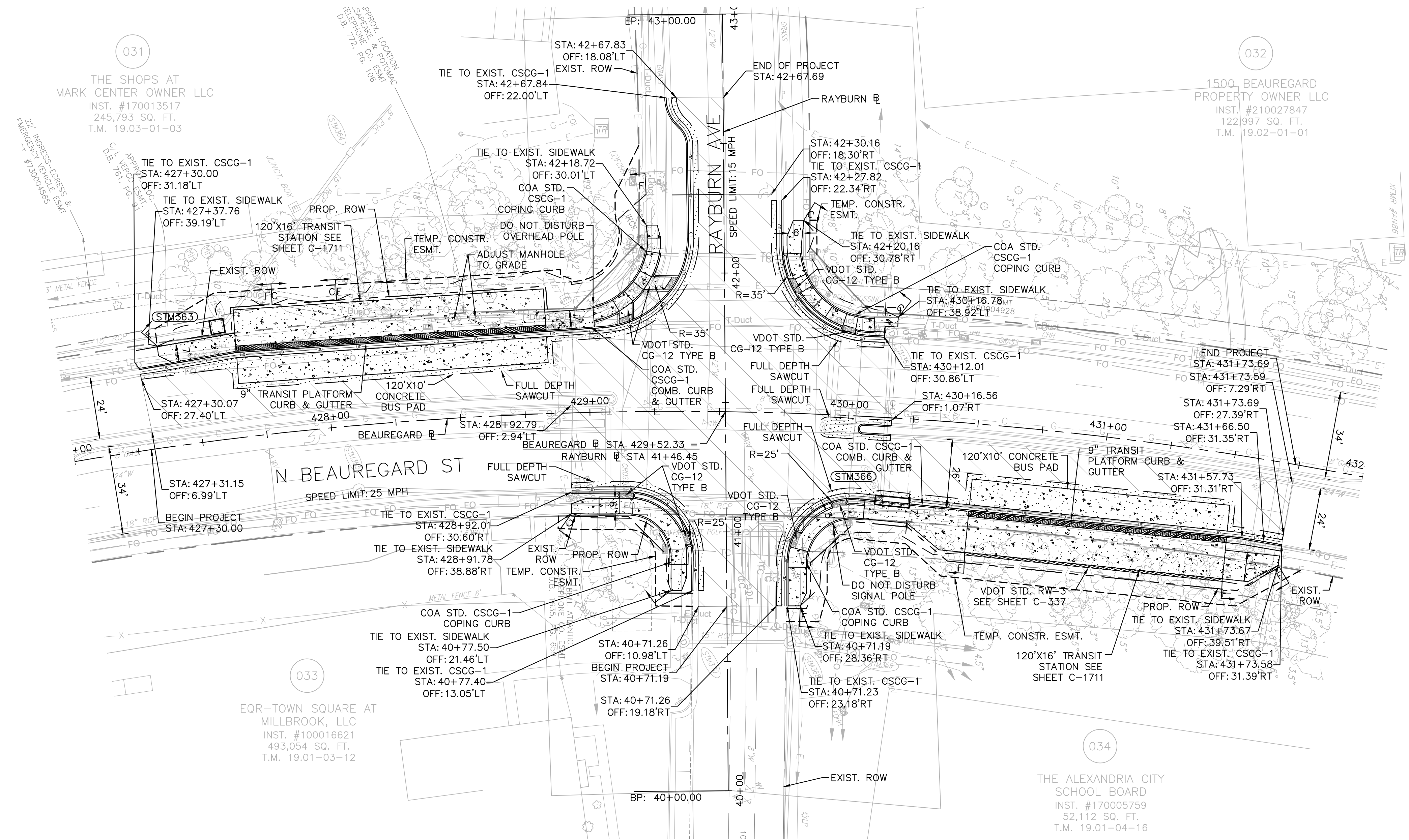
LEGEND:

	MILL AND OVERLAY		PROP. RIGHT OF WAY
	CLASS A3 CONCRETE		TEMP. CONST. EASEMENT
	FULL DEPTH ASPHALT PAVEMENT		FULL DEPTH SAWCUT
			EXISTING RIGHT OF WAY

NOTE:
 1. CURB EXTENSION GEOMETRY HAS BEEN EVALUATED FOR BUS MOVEMENTS USING AUTOTURN, AND WILL BE FURTHER EVALUATED FOR BUS OPERATIONS IN COORDINATION WITH DASH AND THE CITY DURING SUBSEQUENT DETAILED DESIGN PHASES.
 2. ALL PROPOSED PIPES SHALL BE REINFORCED CONCRETE PIPE CLASS IV WITH SILT TIGHT JOINT TYPE



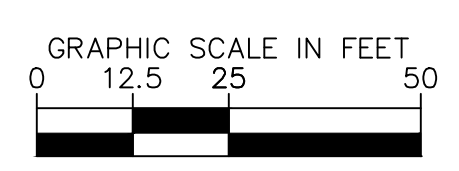
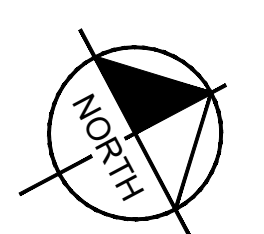
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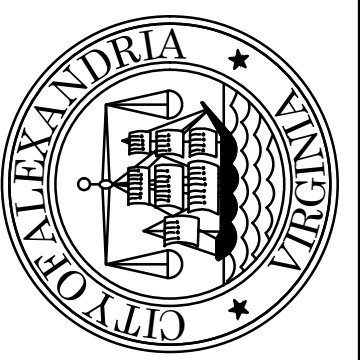
LEGEND:

	MILL AND OVERLAY		PROP. RIGHT OF WAY
	CLASS A3 CONCRETE		TEMP. CONST. EASEMENT
	FULL DEPTH ASPHALT PAVEMENT		FULL DEPTH SAWCUT
			EXISTING RIGHT OF WAY

NOTE:
ALL PROPOSED PIPES SHALL BE REINFORCED CONCRETE PIPE CLASS IV WITH SILT TIGHT JOINT TYPE



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS 90% DESIGN PHASE



CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

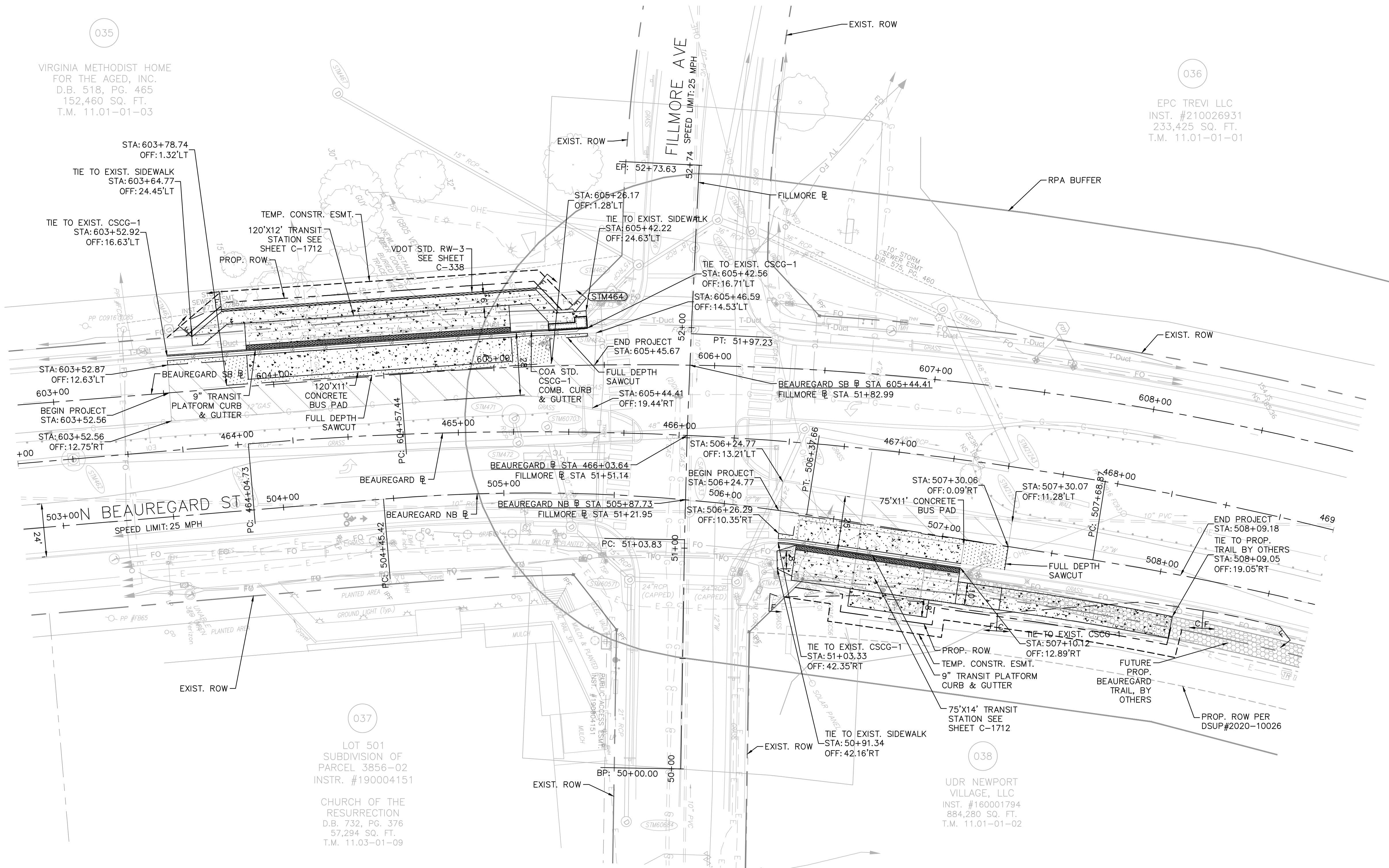
REVISIONS	DATE	DESCRIPTION

ALEXANDRIA PROJECT NO.: 110104122
DATE OF PLAN ISSUANCE: N/A
CONSULTANT PROJECT ID: N/A
DESIGNED BY: EJD DATE: 7/2/24
DRAWN BY: SJG DATE: 7/2/24
CHECKED BY: EJD DATE: 7/2/24
APPROVED BY: DATE: 7/2/24

ROADWAY PLAN - N
BEAUREGARD STREET AT
RAYBURN AVENUE

SHEET
C-111
SCALE 1" = 25'

Plotted By: Lising, Andrew Sheet Set: West End Transitway - Phase 1 Layout: C-109 ROADWAY PLAN July 02, 2024 02:27:28pm K:\VVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\ROADWAY PLAN.dwg



035
VIRGINIA METHODIST HOME FOR THE AGED, INC.
D.B. 518, PG. 465
152,460 SQ. FT.
T.M. 11.01-01-03

036
EPC TREVI LLC
INST. #210026931
233,425 SQ. FT.
T.M. 11.01-01-01

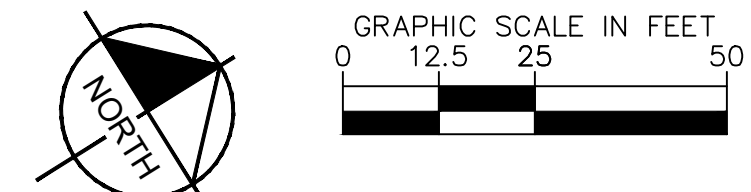
037
LOT 501
SUBDIVISION OF
PARCEL 3856-02
INSTR. #190004151
CHURCH OF THE
RESURRECTION
D.B. 732, PG. 376
57,294 SQ. FT.
T.M. 11.03-01-09

038
UDR NEWPORT
VILLAGE, LLC
INST. #160001794
884,280 SQ. FT.
T.M. 11.01-01-02

NOTE:
ALL PROPOSED PIPES SHALL BE REINFORCED CONCRETE
PIPE CLASS IV WITH SILT TIGHT JOINT TYPE

LEGEND:

	MILL AND OVERLAY		PROP. RIGHT OF WAY
	CLASS A3 CONCRETE		TEMP. CONST. EASEMENT
	FULL DEPTH ASPHALT PAVEMENT		FULL DEPTH SAWCUT
			EXISTING RIGHT OF WAY



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS 90% DESIGN PHASE



CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

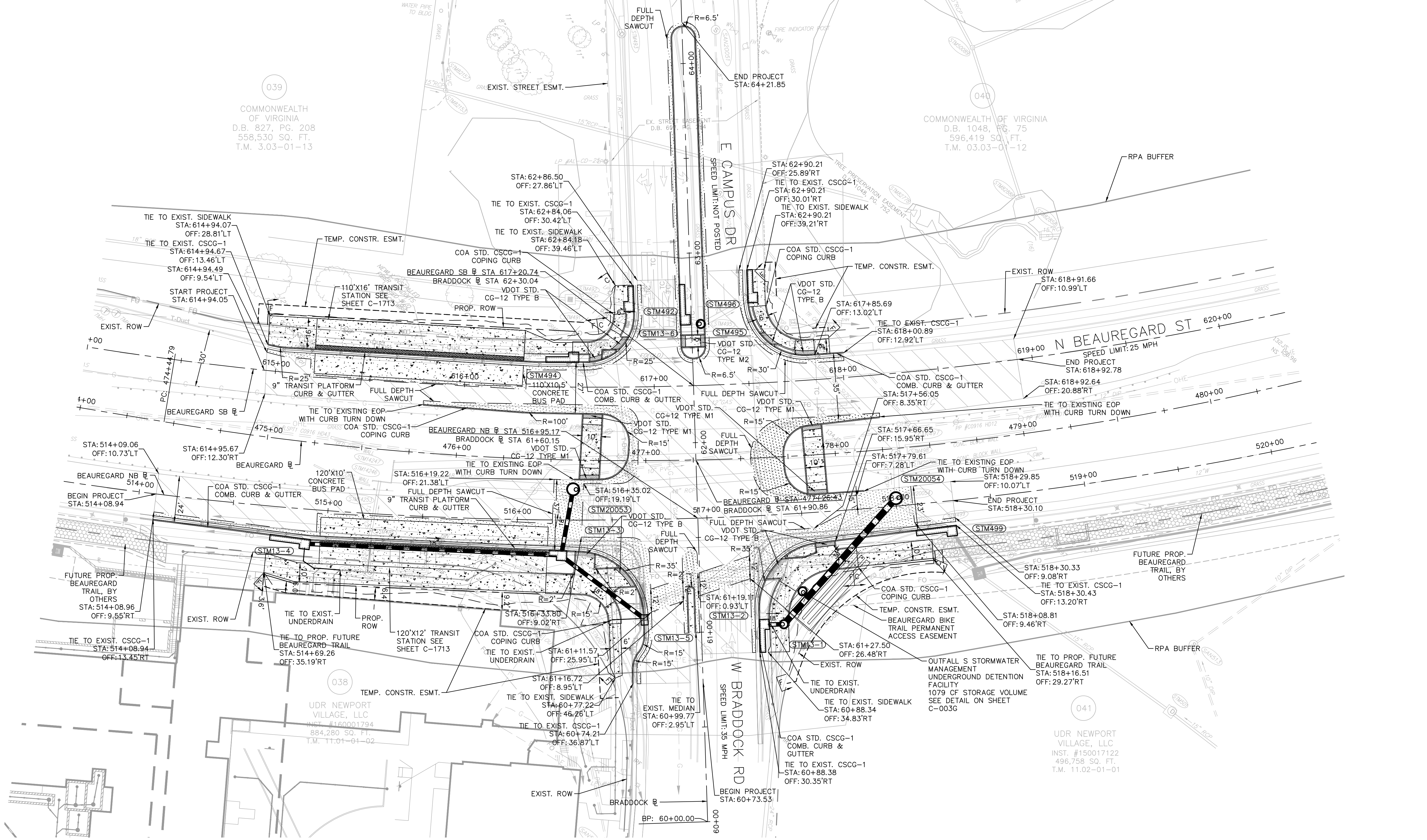
REVISIONS	DATE	DESCRIPTION

ALEXANDRIA PROJECT NO.: 110104122
DATE OF PLAN ISSUANCE: N/A
CONSULTANT PROJECT ID: N/A
DESIGNED BY: EJD DATE: 4/5/24
DRAWN BY: SUG DATE: 4/5/24
CHECKED BY: EJD DATE: 4/5/24
APPROVED BY: _____ DATE: _____

ROADWAY PLAN - N
BEAUREGARD STREET AT
FILLMORE AVENUE

SHEET
C-112
SCALE 1" = 25'

Plotted By: Lisang, Andrew Sheet Set: West End Transitway - Phase 1 Layout: C-109 ROADWAY PLAN July 02, 2024 02:27:28pm K:\VVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\ROADWAY PLAN.dwg



039
COMMONWEALTH OF VIRGINIA
D.B. 827, PG. 208
558,530 SQ. FT.
T.M. 3.03-01-13

040
COMMONWEALTH OF VIRGINIA
D.B. 1048, PG. 75
596,419 SQ. FT.
T.M. 03.03-01-12

038
UDR NEWPORT VILLAGE, LLC
INST. #160001794
884,280 SQ. FT.
T.M. 11.01-01-02

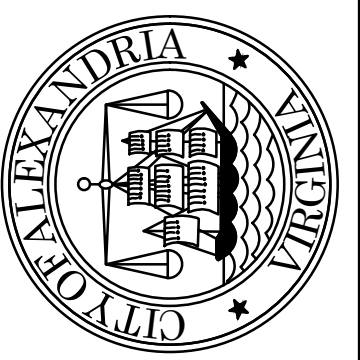
041
UDR NEWPORT VILLAGE, LLC
INST. #150017122
496,758 SQ. FT.
T.M. 11.02-01-01

LEGEND:

	MILL AND OVERLAY		PROP. RIGHT OF WAY
	CLASS A3 CONCRETE		TEMP. CONST. EASEMENT
	FULL DEPTH ASPHALT PAVEMENT		FULL DEPTH SAWCUT
			EXISTING RIGHT OF WAY

NOTE:
ALL PROPOSED PIPES SHALL BE REINFORCED CONCRETE PIPE CLASS IV WITH SILT TIGHT JOINT TYPE

90% DESIGN PHASE



CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

REVISIONS

NO.	DATE	DESCRIPTION

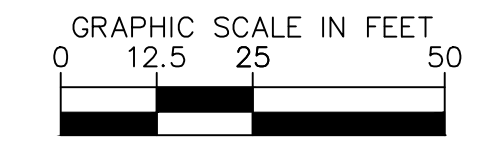
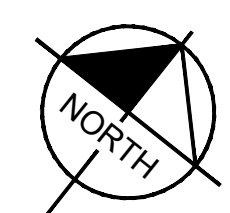
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DATE OF PLAN ISSUANCE:	N/A
CONSULTANT PROJECT ID:	N/A
DESIGNED BY:	EJD DATE: 4/5/24
DRAWN BY:	SJC DATE: 4/5/24
CHECKED BY:	EJD DATE: 4/5/24
APPROVED BY:	

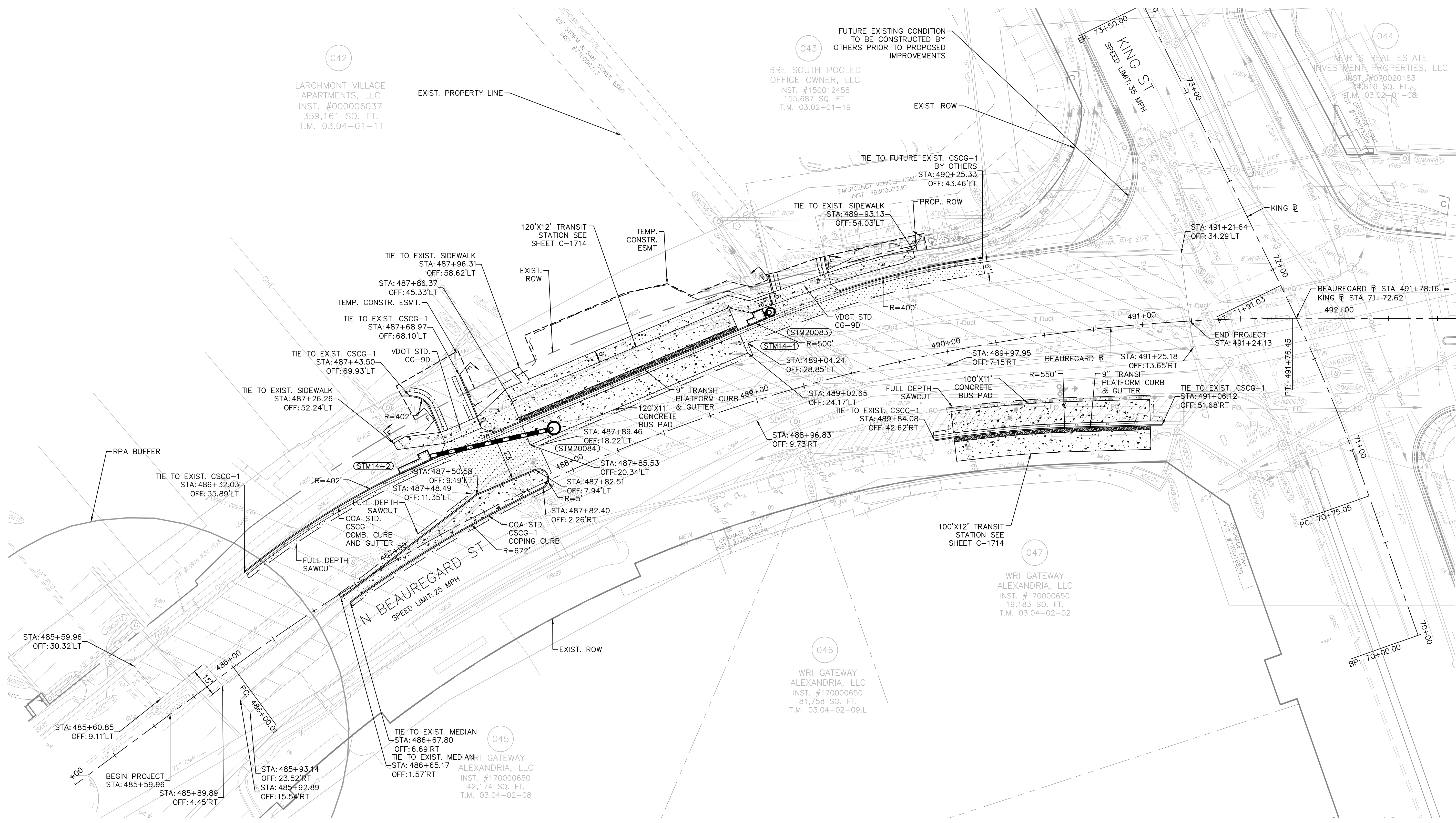
WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

ROADWAY PLAN - N
BEAUREGARD STREET AT
W BRADDOCK ROAD

SHEET
C-113
SCALE 1" = 25'



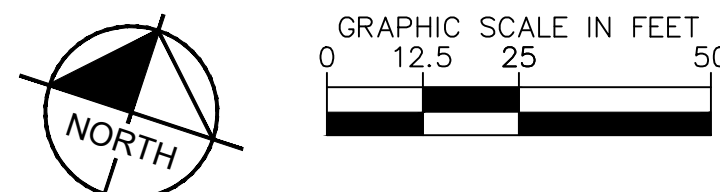
Plotted By: Lisang, Andrew Sheet Set: West End Transitway - Phase 1 Layout: C-109 ROADWAY PLAN July 02, 2024 02:27:28pm K:\VVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\ROADWAY PLAN.dwg

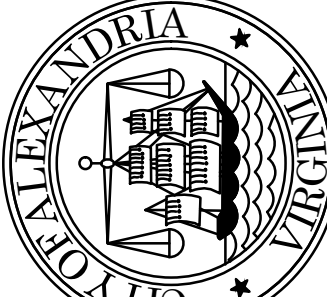


LEGEND:

	MILL AND OVERLAY		PROP. RIGHT OF WAY
	CLASS A3 CONCRETE		TEMP. CONST. EASEMENT
	FULL DEPTH ASPHALT PAVEMENT		FULL DEPTH SAWCUT
			EXISTING RIGHT OF WAY

NOTES:
 1. SURVEY SHOWN ON THE SOUTH EAST SIDE OF KING STREET WAS OBTAINED BY OTHERS FOR THE ADJACENT KING AND BEAUREGARD INTERSECTION IMPROVEMENT PROJECT. CONTRACTOR TO FIELD VERIFY LOCATION OF SURFACE INFRASTRUCTURE, UTILITIES, AND OTHER FEATURES PRIOR TO BEGINNING CONSTRUCTION OF THIS AREA.





CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

ROADWAY PLAN - N BEAUREGARD STREET AT KING STREET

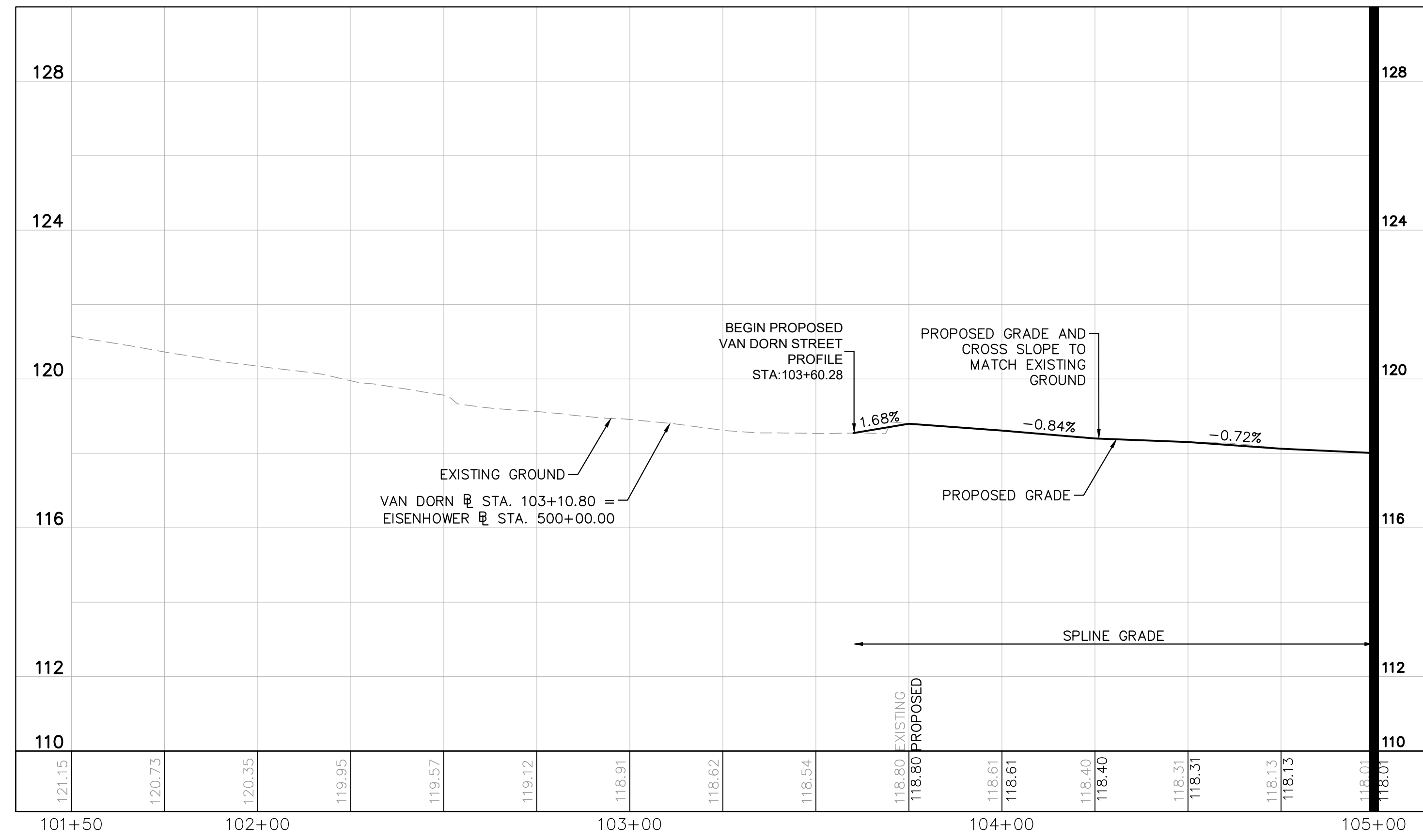
REVISIONS	DESCRIPTION

ALEXANDRIA PROJECT NO.: 110104122	DATE OF PLAN ISSUANCE: N/A
CONSULTANT PROJECT ID: N/A	DESIGNED BY: E.J.D./DATE: 4/5/24
	DRAWN BY: S.J.C./DATE: 4/5/24
	CHECKED BY: E.J.D./DATE: 4/5/24
	APPROVED BY: _____/DATE: _____

SHEET C-114

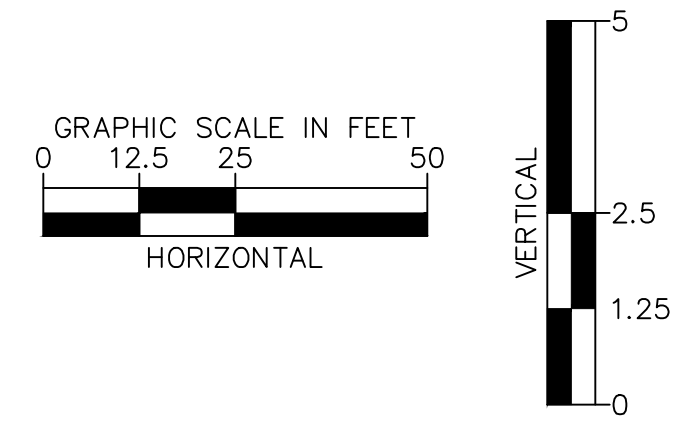
SCALE 1" = 25'

Plotted By: Waring, Megan Sheet Set: West End Transitway - Phase 1 Layout: C-201 PROFILE July 11, 2024 12:36:33pm K:\NVA_Transit\110104122_West_End_Transitway_Design\CADD\PlanSheets\NS_PROFILE_VAN_DORN.dwg



ROADWAY PROFILE - VAN DORN

MATCHLINE STA. 105+00 SEE SHEET C-202



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

ROADWAY PROFILE - S VAN DORN STREET AT EISENHOWER AVENUE

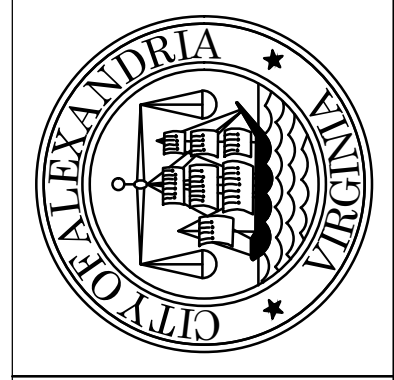
SHEET C-201
 SCALE AS SHOWN

ALEXANDRIA PROJECT NO.:	110104122
DATE OF PLAN ISSUANCE:	N/A
CONSULTANT PROJECT ID.:	N/A
DESIGNED BY:	EJD DATE: 4/5/24
DRAWN BY:	MAT DATE: 4/5/24
CHECKED BY:	EJD DATE: 4/5/24
APPROVED BY:	DATE:

REVISIONS	DATE	DESCRIPTION

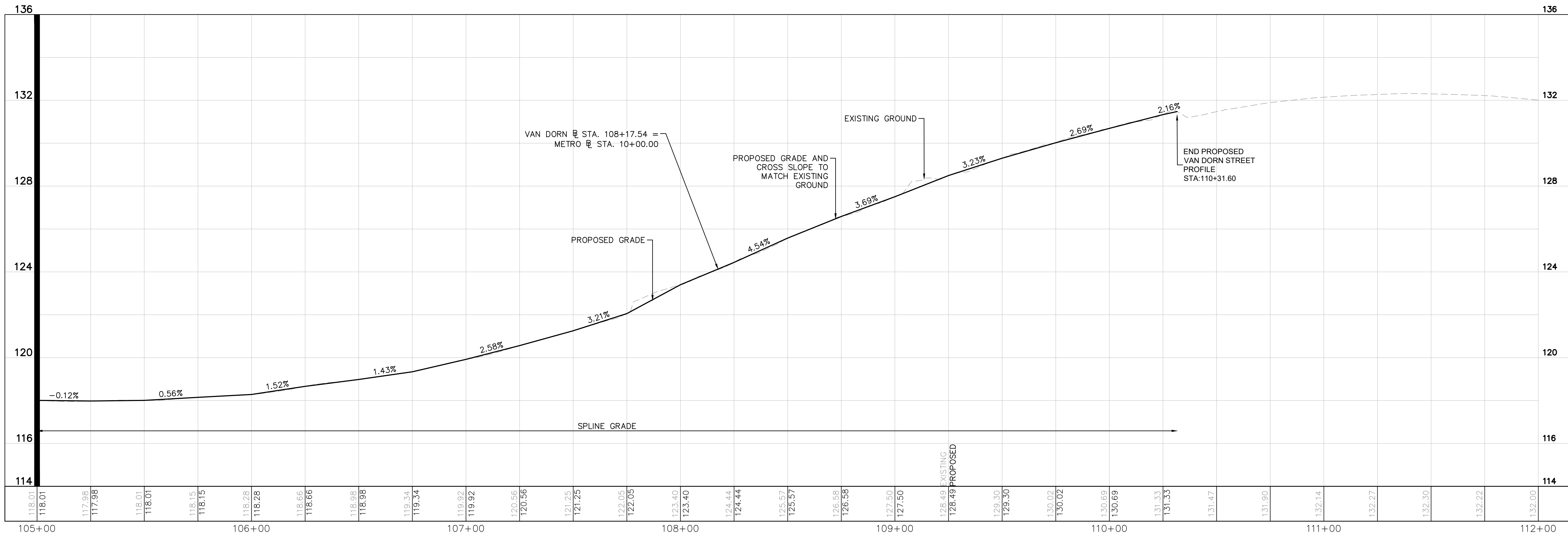
CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

90% DESIGN PHASE

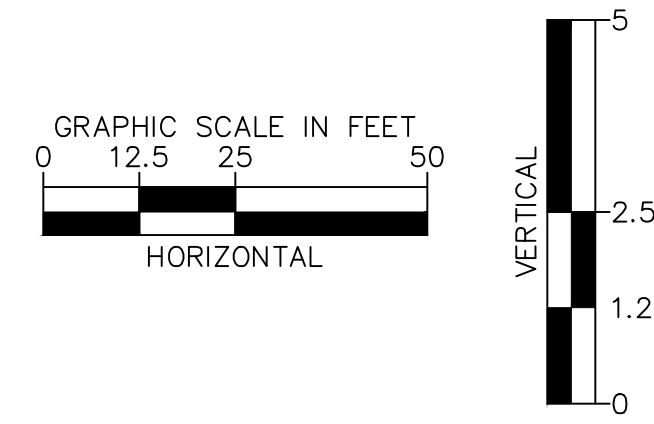


Plotted By: Waring, Megan Sheet Set: West End Transitway - Phase 1 Layout: C-202 PROFILE July 11, 2024 12:36:38pm K:\NVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\NS PROFILE VAN DORN.dwg

MATCHLINE STA. 105+00 SEE SHEET C-201



ROADWAY PROFILE - VAN DORN



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

ROADWAY PROFILE - S VAN DORN STREET AT METRO ROAD

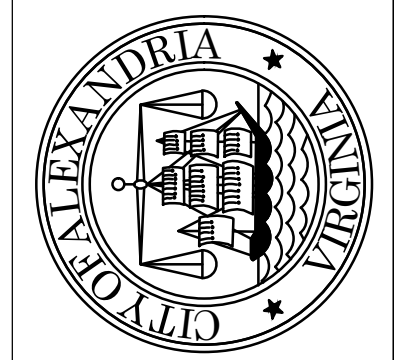
SHEET C-202
SCALE AS SHOWN

90% DESIGN PHASE

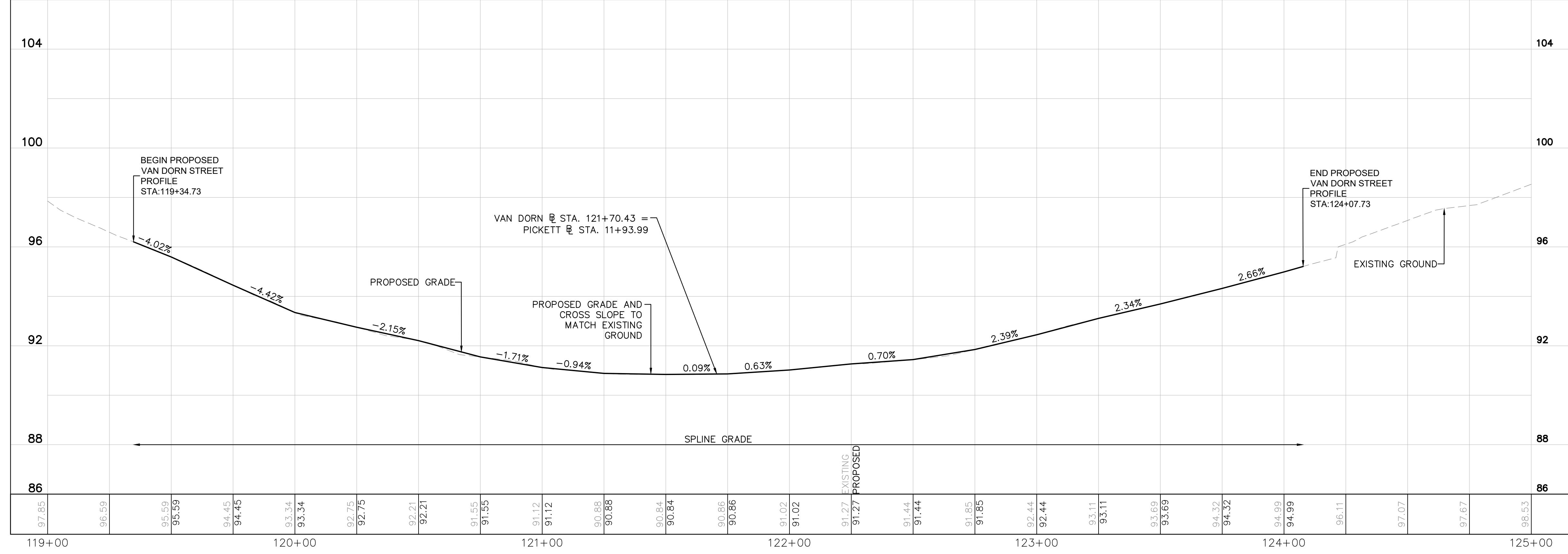
CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

REVISIONS	DESCRIPTION
DATE	BY

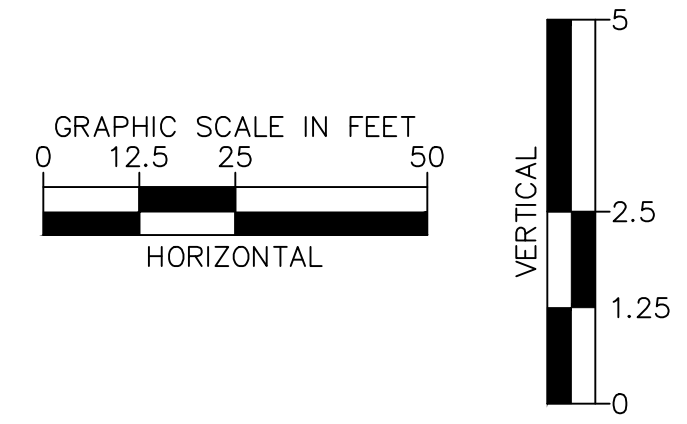
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DATE OF PLAN ISSUANCE: N/A
CONSULTANT PROJECT ID: N/A
DESIGNED BY: EJD DATE: 4/5/24
DRAWN BY: MAT DATE: 4/5/24
CHECKED BY: EJD DATE: 4/5/24
APPROVED BY: _____ DATE: _____



Plotted By: Waring, Megan Sheet Set: West End Transitway - Phase 1 Layout: C-203 PROFILE July 11, 2024 12:36:41pm K:\NVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\NS PROFILE VAN DORN.dwg



ROADWAY PROFILE - VAN DORN



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

ROADWAY PROFILE - S VAN DORN STREET AT S PICKETT STREET

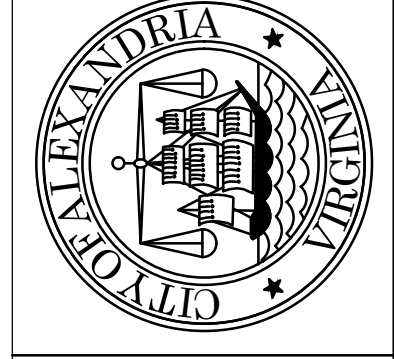
SHEET C-203
SCALE AS SHOWN

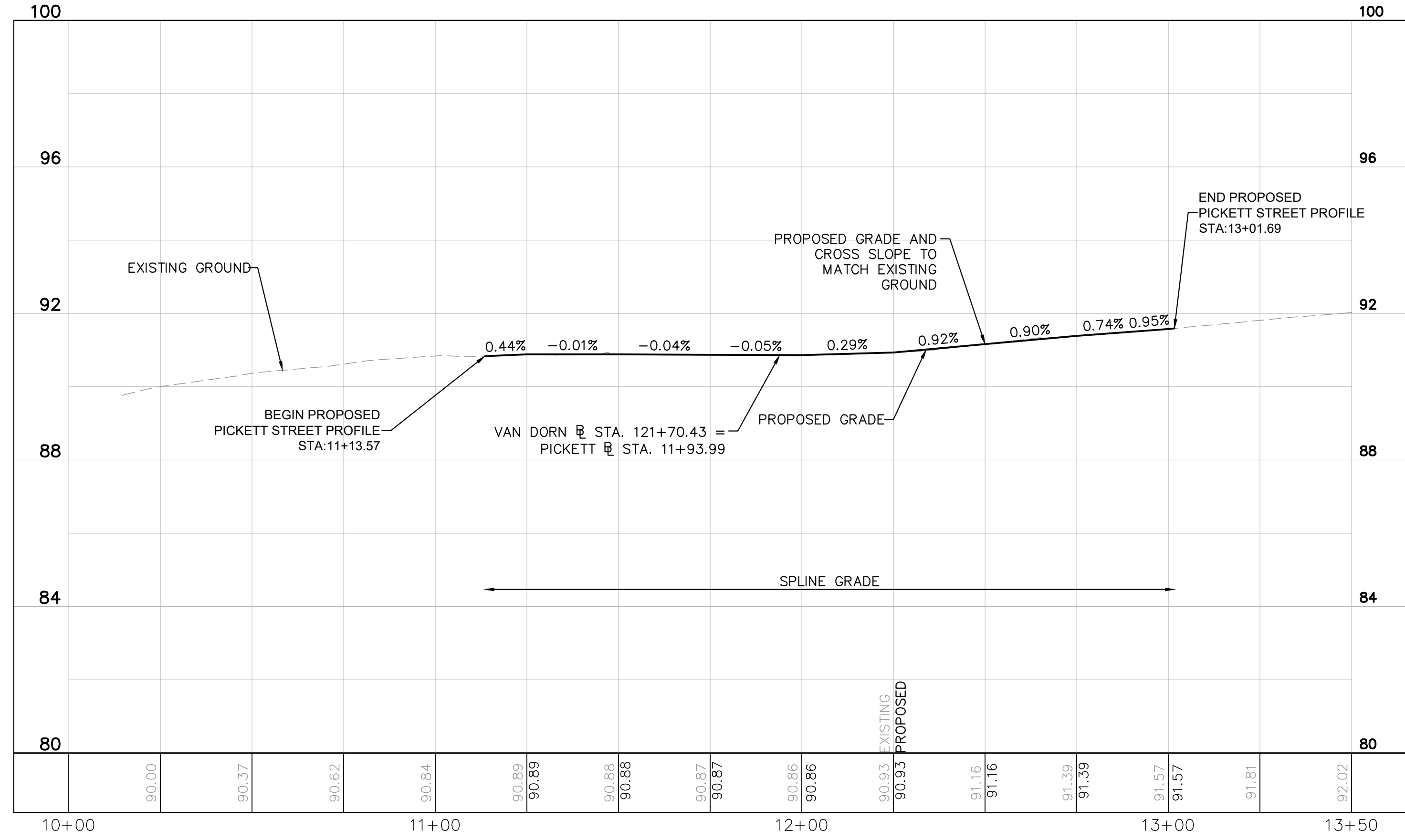
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DATE OF PLAN ISSUANCE:	N/A
CONSULTANT PROJECT ID.:	N/A
DESIGNED BY:	EJD DATE: 4/5/24
DRAWN BY:	MAT DATE: 4/5/24
CHECKED BY:	EJD DATE: 4/5/24
APPROVED BY:	DATE:

REVISIONS	DESCRIPTION
DATE	BY

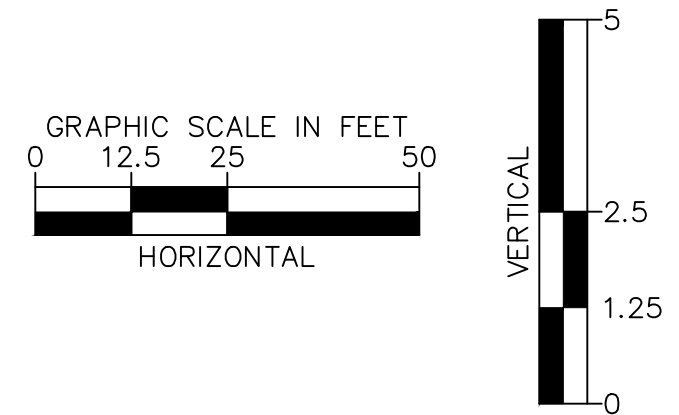
CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

90% DESIGN PHASE





ROADWAY PROFILE - PICKETT RD



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

ROADWAY PROFILE - S PICKETT STREET

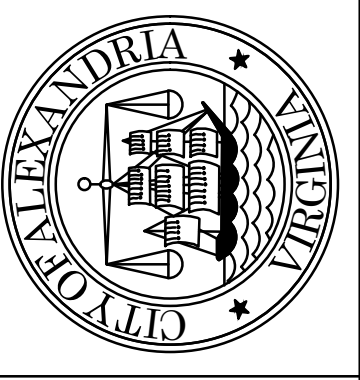
SHEET C-203(A)
 SCALE AS SHOWN

ALEXANDRIA PROJECT NO.:	110104122
DATE OF PLAN ISSUANCE:	N/A
CONSULTANT PROJECT ID.:	N/A
DESIGNED BY:	VALUE DATE: 4/5/24
DRAWN BY:	VALUE DATE: 4/5/24
CHECKED BY:	VALUE DATE: 4/5/24
APPROVED BY:	DATE:

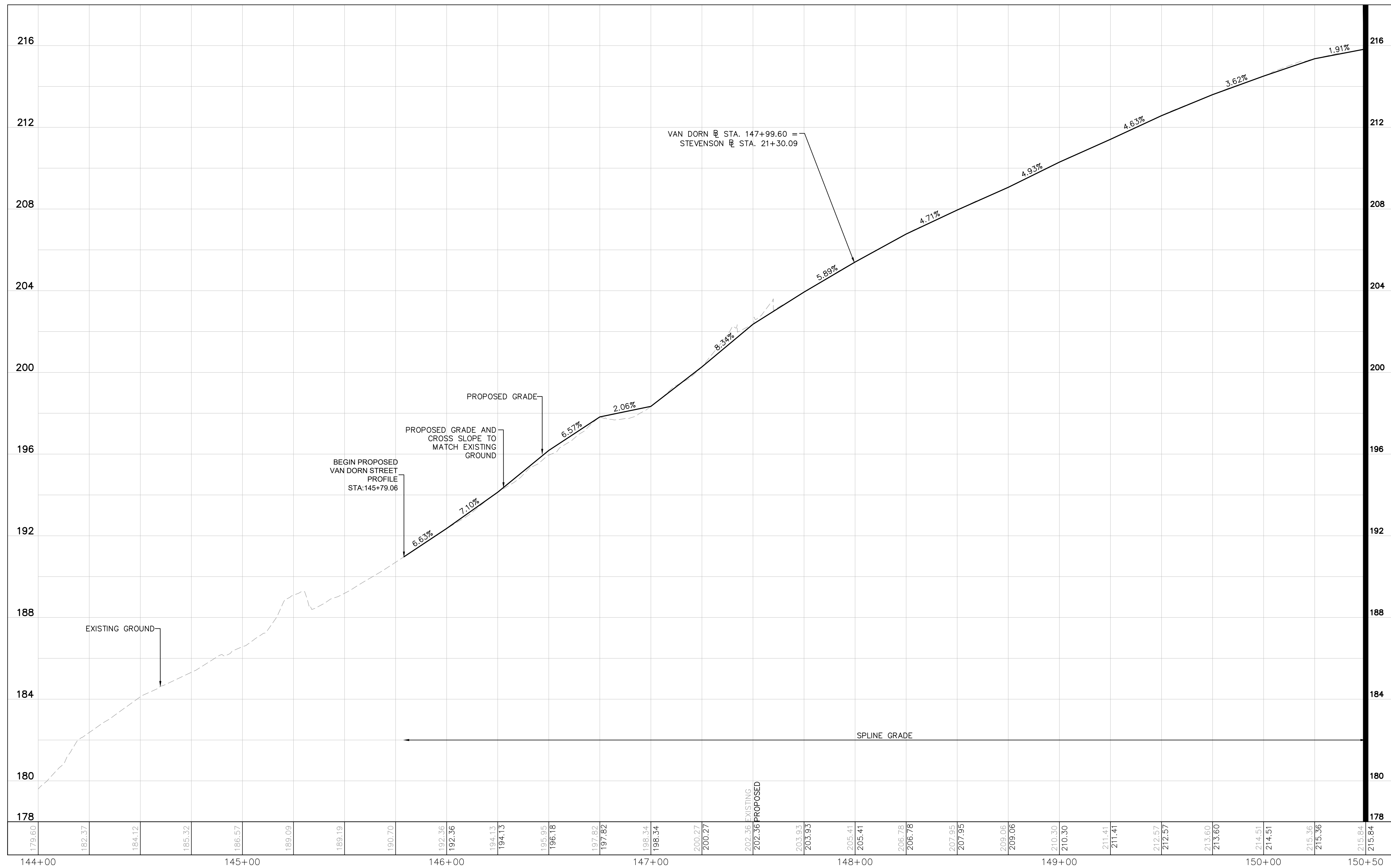
REVISIONS	DESCRIPTION
DATE	BY

90% DESIGN PHASE

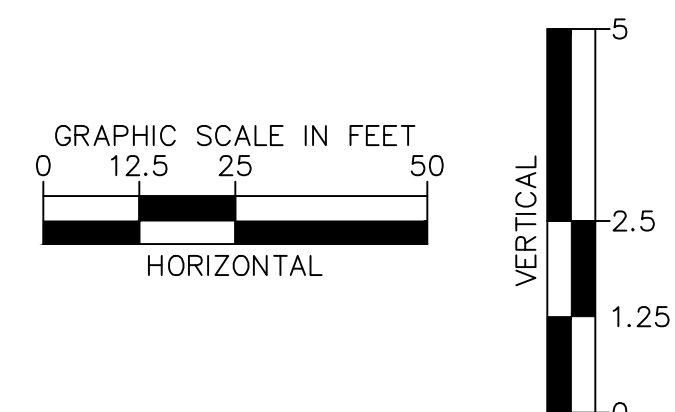
CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313



Plotted By: Waring, Megan Sheet Set: West End Transitway - Phase 1 Layout: C-204 ROADWAY PROFILE - S VAN DORN STREET AT STEVENSON AVENUE July 11, 2024 12:36:48pm K:\NVA_Transit\110104122_West_End_Transitway_Design\CADD\PlanSheets\NS_Profile_VAN_DORN.dwg



ROADWAY PROFILE - VAN DORN



MATCHLINE STA. 150+50 SEE SHEET C-205

WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

ROADWAY PROFILE - S VAN DORN STREET AT STEVENSON AVENUE

SHEET C-204
 SCALE AS SHOWN

ALEXANDRIA PROJECT NO.:	110104122
DATE OF PLAN ISSUANCE:	N/A
CONSULTANT PROJECT ID.:	N/A
DESIGNED BY:	EJD DATE: 4/5/24
DRAWN BY:	MAT DATE: 4/5/24
CHECKED BY:	EJD DATE: 4/5/24
APPROVED BY:	DATE:

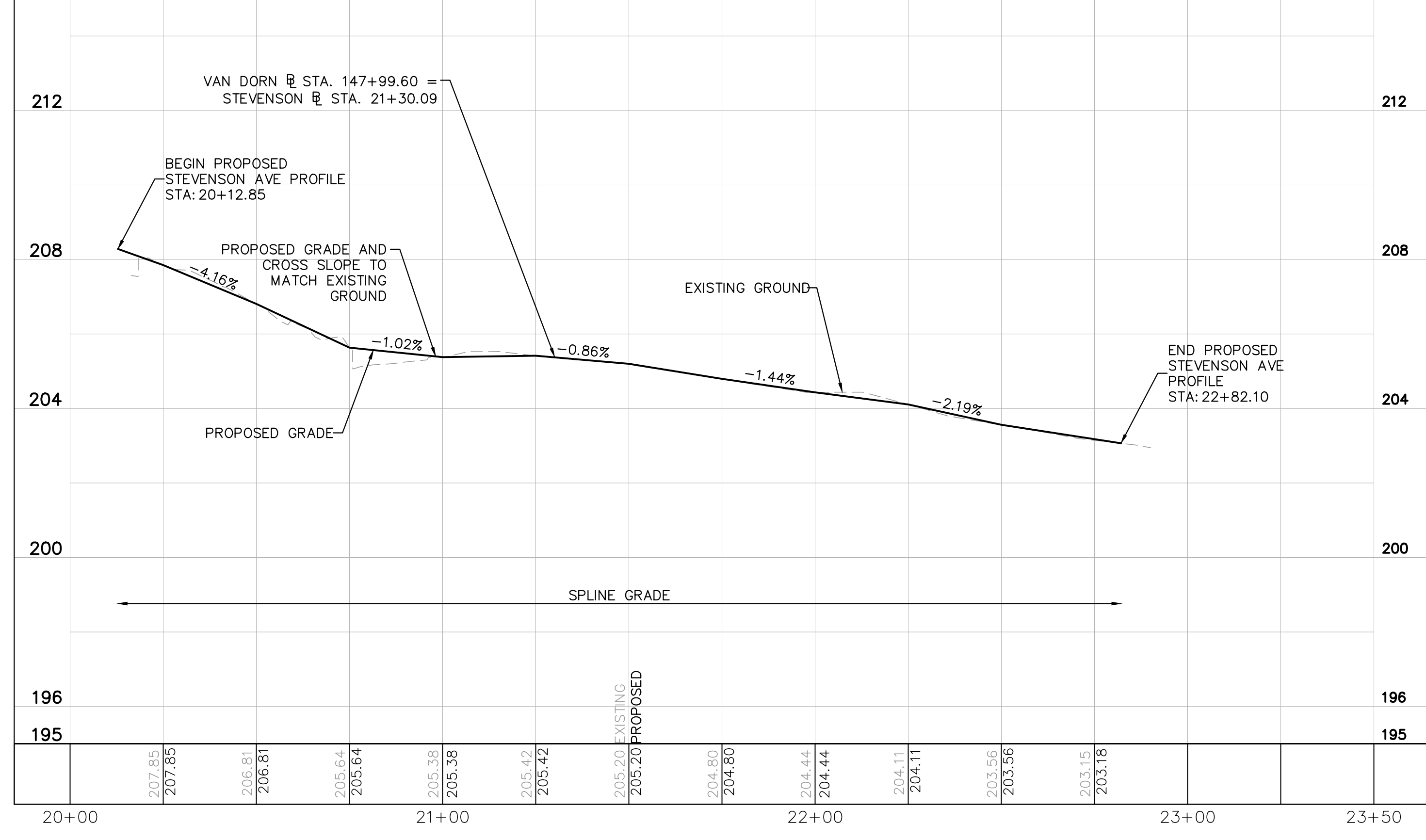
REVISIONS	DESCRIPTION
BY	
DATE	

90% DESIGN PHASE

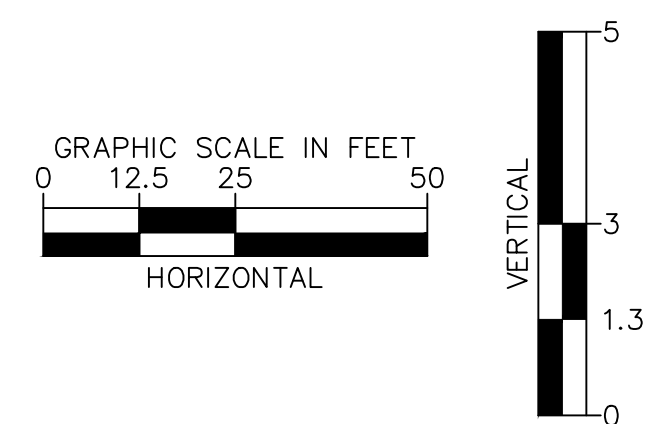
CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313



Plotted By: Waring, Megan Sheet Set: West End Transitway - Phase 1 Layout: C-204 PROFILE (A) July 11, 2024 12:36:49pm K:\NVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\NS PROFILE VAN DORN.dwg



ROADWAY PROFILE - STEVENSON AVE



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

ROADWAY PROFILE - STEVENSON AVENUE

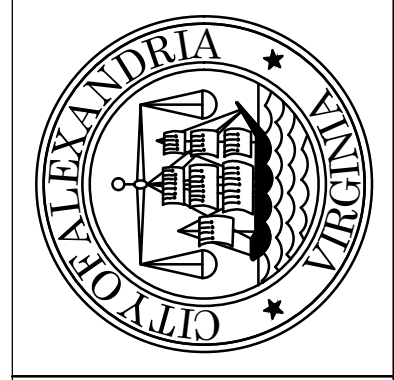
SHEET C-204(A) SCALE AS SHOWN

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CONSULTANT PROJECT ID.:	N/A
DESIGNED BY:	EJD DATE: 4/5/24
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CHECKED BY:	EJD DATE: 4/5/24
APPROVED BY:	DATE:

REVISIONS	DESCRIPTION
DATE	BY

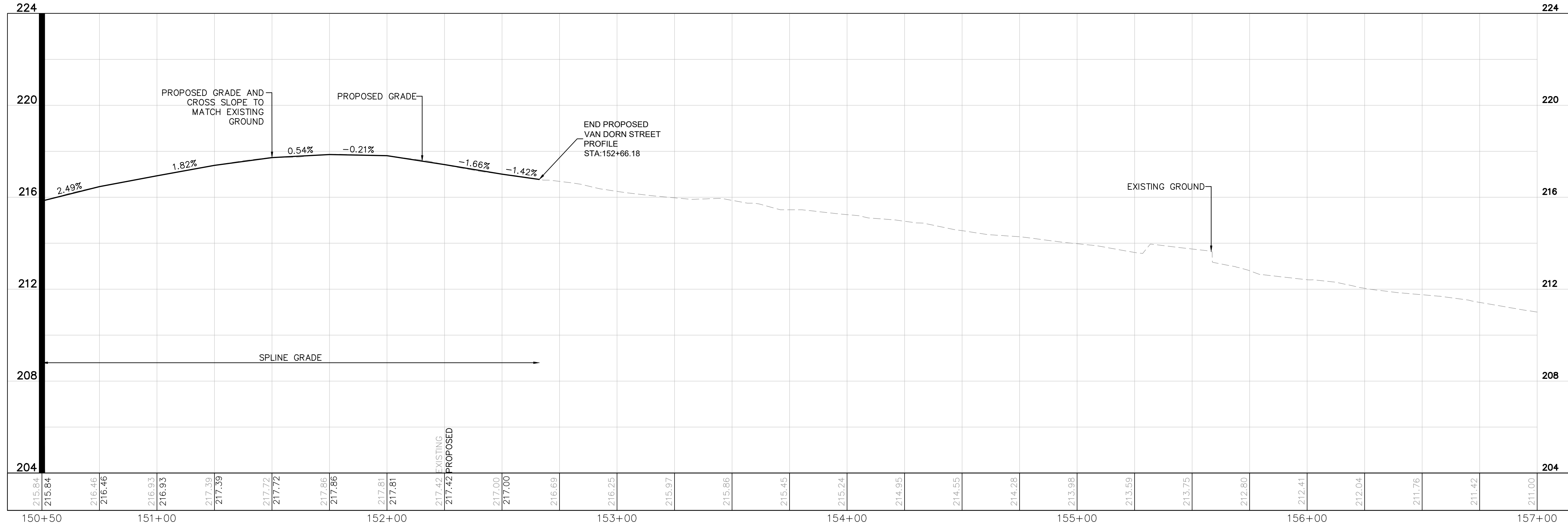
CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

90% DESIGN PHASE

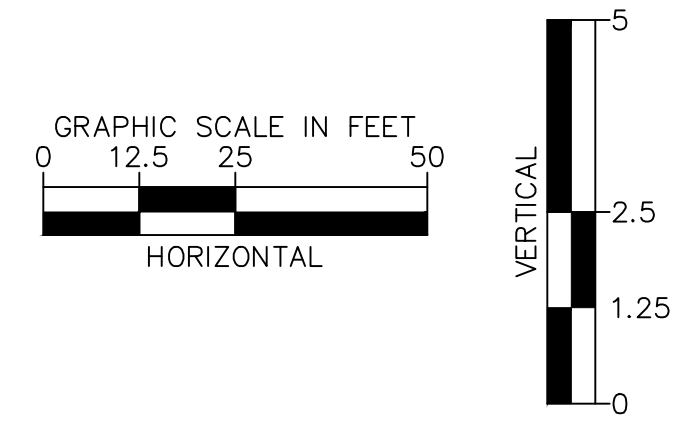


Plotted By: Waring, Megan Sheet Set: West End Transitway - Phase 1 Layout: C-205 PROFILE July 11, 2024 12:36:51pm K:\NVA_Transit\110104122_West_End_Transitway_Design\CADD\PlanSheets\NS_PROFILE_VAN_DORN.dwg

MATCHLINE STA. 150+50 SEE SHEET C-204



ROADWAY PROFILE - VAN DORN

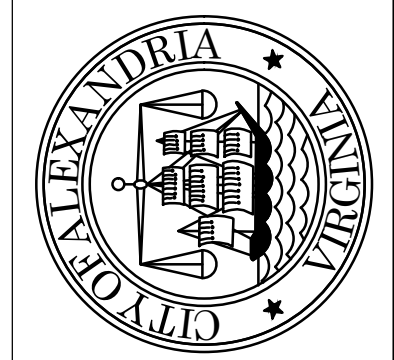


WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

ROADWAY PROFILE - S VAN DORN STREET AT DUKE STREET RAMP

SHEET C-205
SCALE AS SHOWN

90% DESIGN PHASE

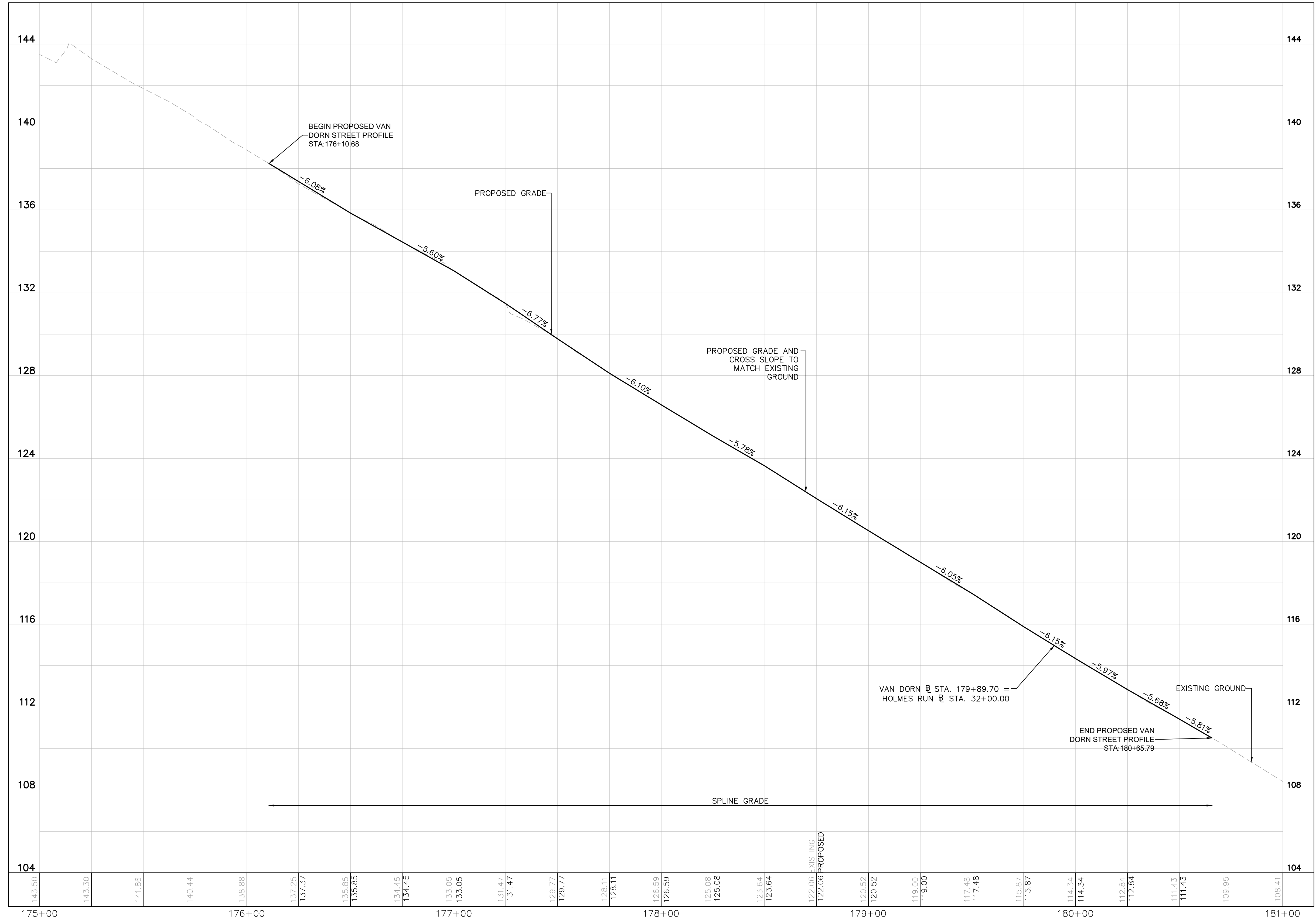


CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

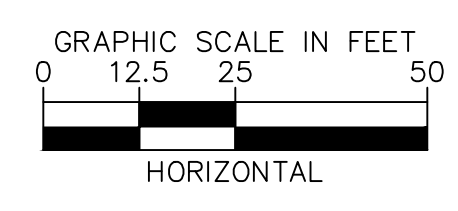
REVISIONS	DATE	BY	DESCRIPTION

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 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: EUD. DATE: 4/5/24
 DRAWN BY: MAT. DATE: 4/5/24
 CHECKED BY: EUD. DATE: 4/5/24
 APPROVED BY: _____ DATE: _____

Plotted By: Waring, Megan Sheet: West End Transitway - Phase 1 Layout: C-206 PROFILE July 11, 2024 12:36:55pm K:\NVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\NS PROFILE VAN DORN.dwg



ROADWAY PROFILE - VAN DORN



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS 90% DESIGN PHASE



CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

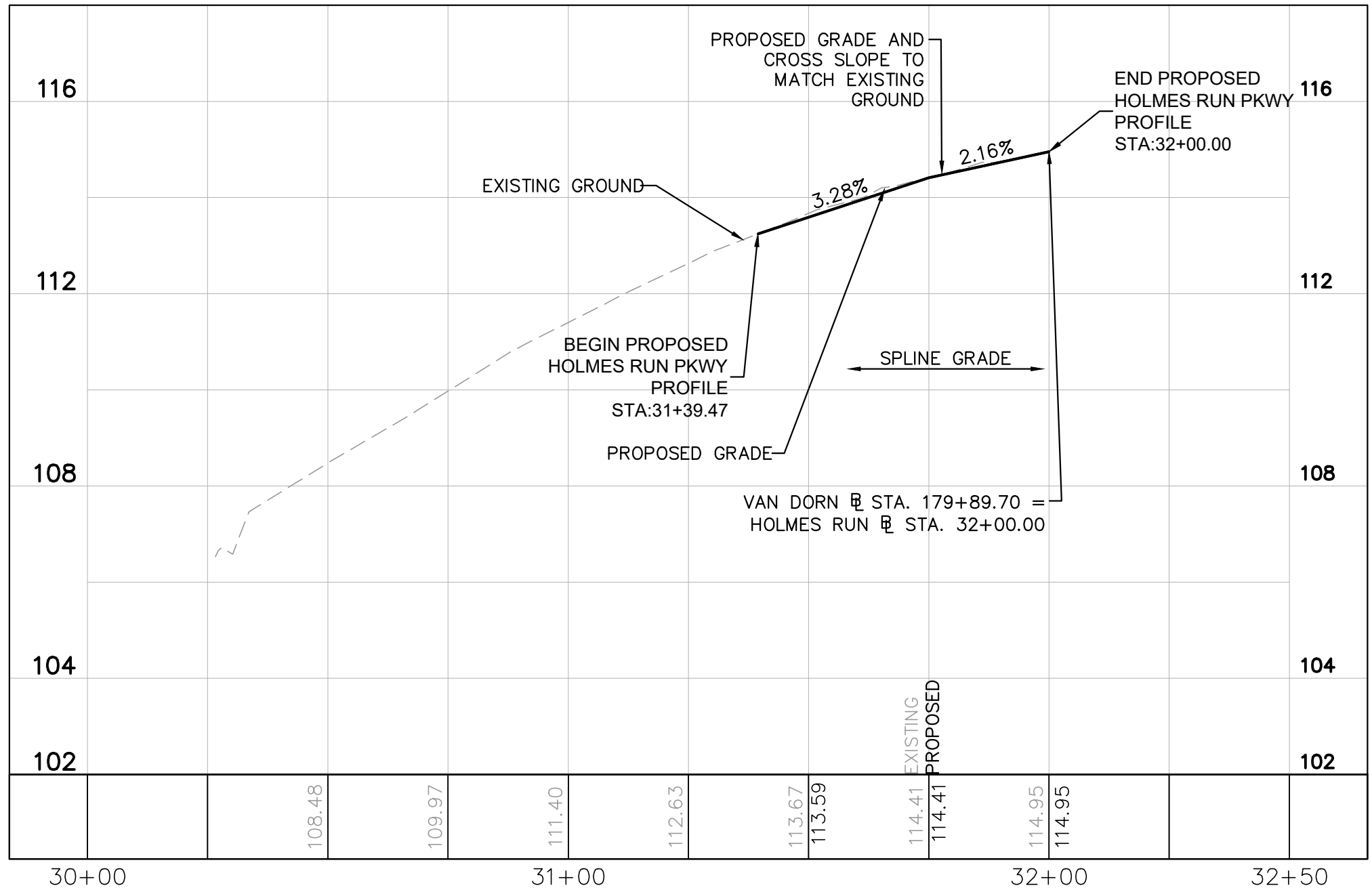
REVISIONS	DESCRIPTION
DATE	BY

ALEXANDRIA PROJECT NO.:	110104122
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CONSULTANT PROJECT ID.:	N/A
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DRAWN BY:	MAT DATE: 4/5/24
CHECKED BY:	EJD DATE: 4/5/24
APPROVED BY:	DATE:

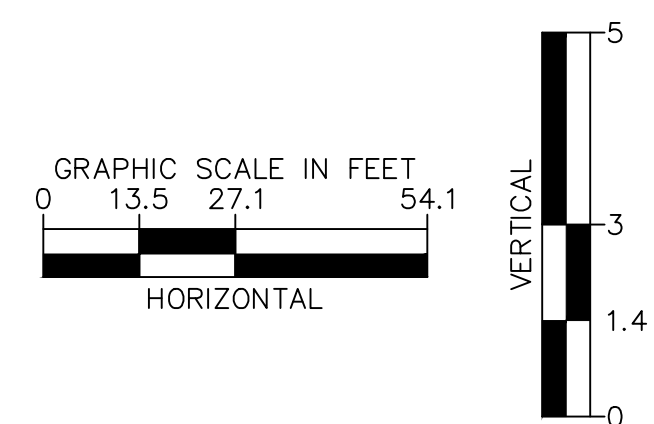
ROADWAY PROFILE - N VAN DORN STREET AT HOLMES RUN PARKWAY

SHEET C-206
 SCALE AS SHOWN

Plotted By: Waring, Megan Sheet Set: West End Transitway - Phase 1 Layout: C-206 PROFILE (A) July 11, 2024 12:36:56pm K:\NVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\NS PROFILE VAN DORN.dwg



ROADWAY PROFILE - HOLMES RUN PKWY



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

ROADWAY PROFILE - HOLMES RUN PARKWAY

SHEET C-206(A) SCALE AS SHOWN

90% DESIGN PHASE

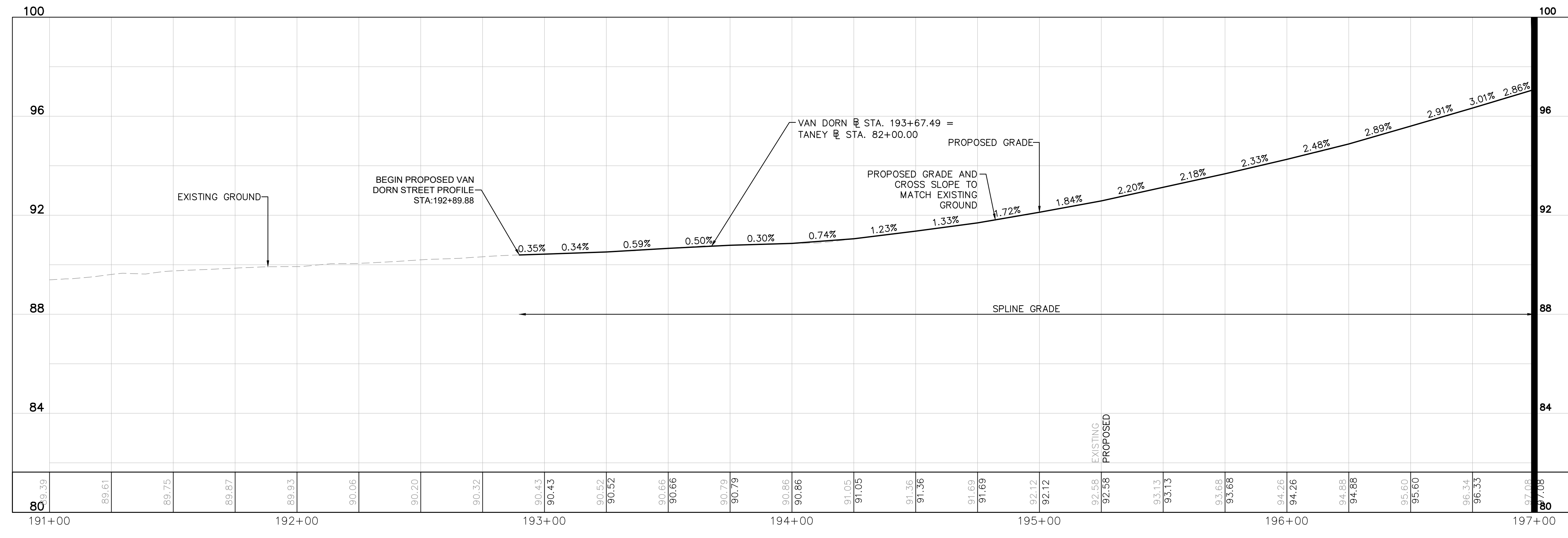
CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

REVISIONS	DESCRIPTION
DATE	BY

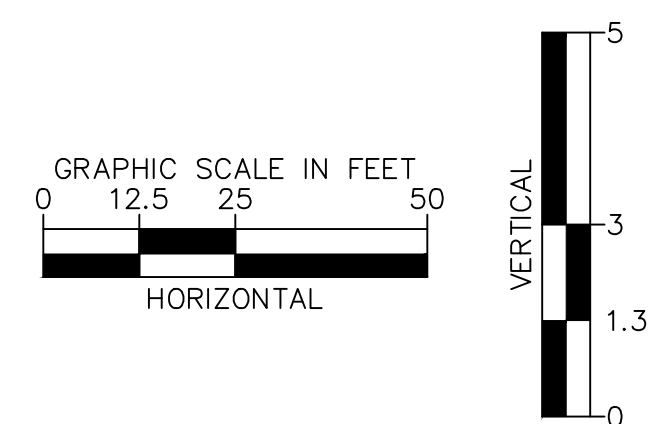
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DATE OF PLAN ISSUANCE:	N/A
CONSULTANT PROJECT ID.:	N/A
DESIGNED BY:	EJD DATE: 4/5/24
DRAWN BY:	MAT DATE: 4/5/24
CHECKED BY:	EJD DATE: 4/5/24
APPROVED BY:	DATE:



Plotted By: Waring, Megan Sheet Set: West End Transitway - Phase 1 Layout: C-207 ROADWAY PROFILE - N VAN DORN STREET AT TANEY AVENUE July 11, 2024 12:37:09pm K:\NVA_Transit\110104122_West_End_Transitway_Design\CADD\PlanSheets\WS_PROFILE_VAN_DORN.dwg



ROADWAY PROFILE - VAN DORN



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

ROADWAY PROFILE - N VAN DORN STREET AT TANEY AVENUE

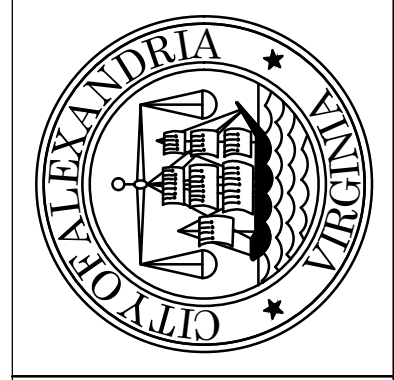
SHEET C-207
 SCALE AS SHOWN

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 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: EJD DATE: 4/5/24
 DRAWN BY: MAT DATE: 4/5/24
 CHECKED BY: EJD DATE: 4/5/24
 APPROVED BY: _____ DATE: _____

REVISIONS	DESCRIPTION
DATE	BY

CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

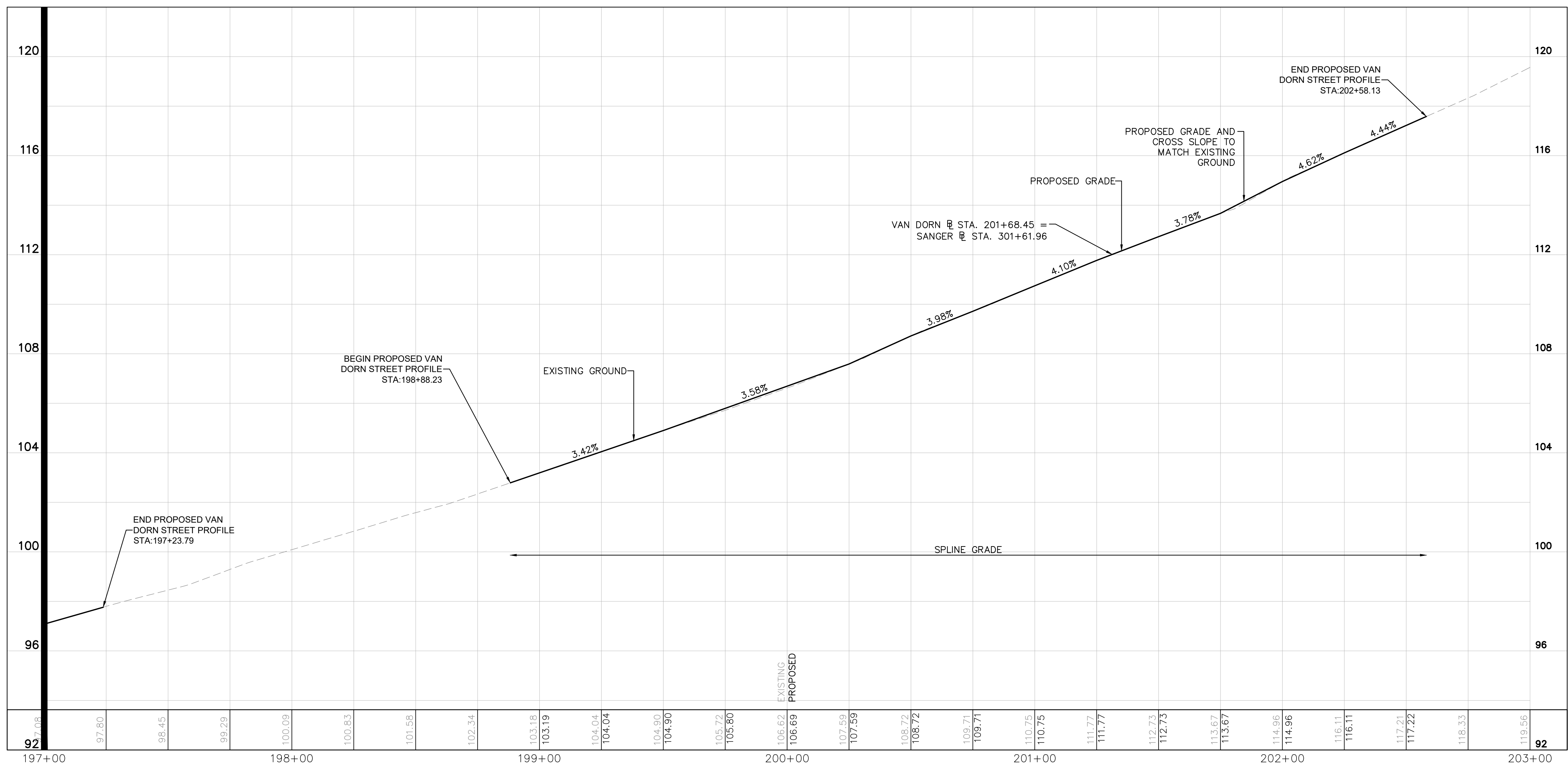
90% DESIGN PHASE



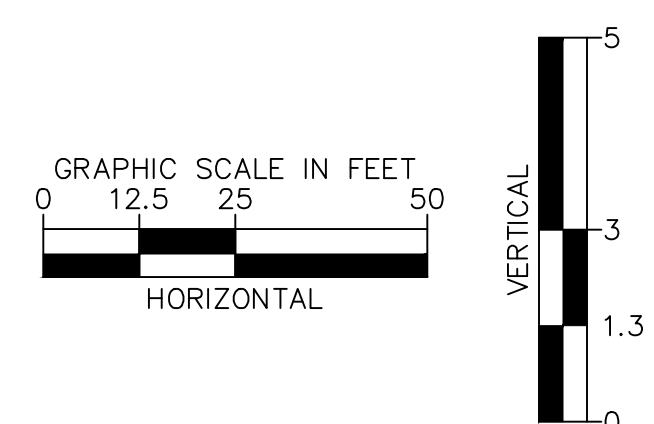
MATCHLINE STA. 197+00 SEE SHEET C-208

Plotted By: Waring, Megan Sheet Set: West End Transitway - Phase 1 Layout: C-208 ROADWAY PROFILE - N VAN DORN STREET AT SANGER AVENUE July 11, 2024 12:37:03pm K:\NVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\NS PROFILE VAN DORN.dwg

MATCHLINE STA. 197+00 SEE SHEET C-207



ROADWAY PROFILE - VAN DORN



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

ROADWAY PROFILE - N VAN DORN STREET AT SANGER AVENUE

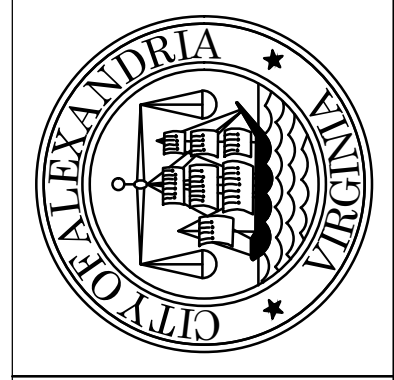
SHEET C-208
 SCALE AS SHOWN

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CONSULTANT PROJECT ID.:	N/A
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DRAWN BY:	MAT DATE: 4/5/24
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APPROVED BY:	DATE:

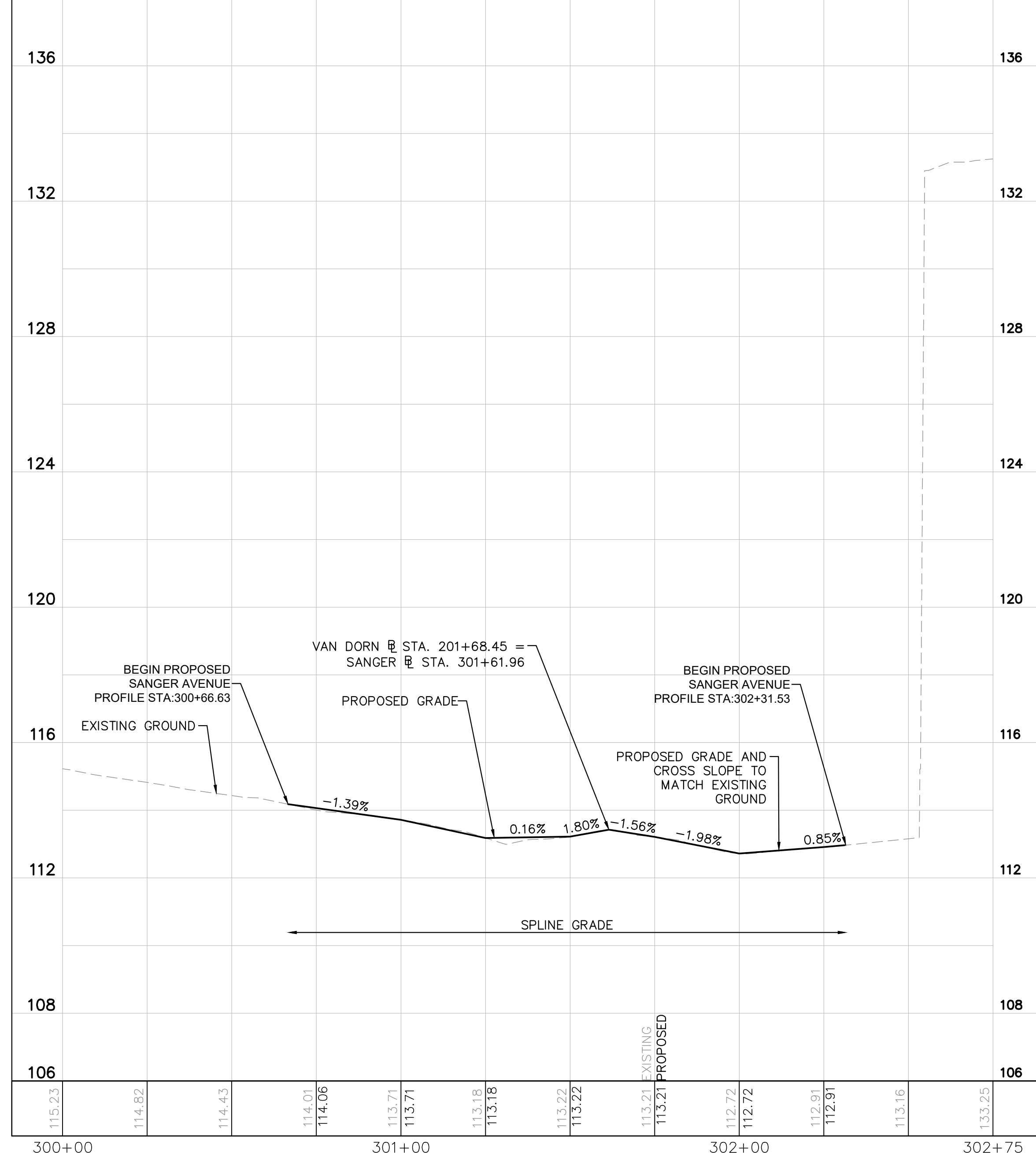
REVISIONS	DESCRIPTION
BY	
DATE	

CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

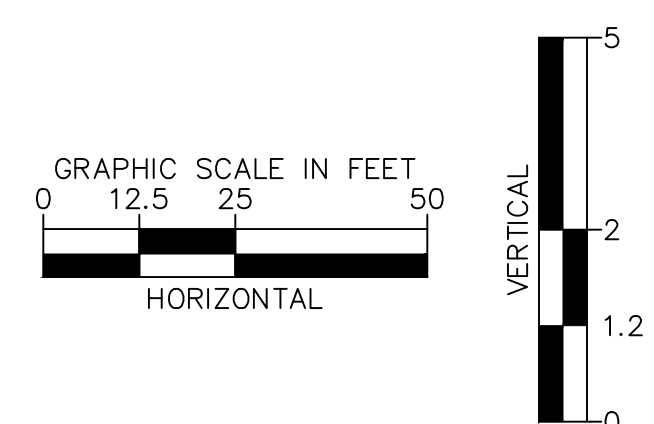
90% DESIGN PHASE



Plotted By: Waring, Megan Sheet Set: West End Transitway - Phase 1 Layout: C-208 PROFILE (A) July 11, 2024 12:37:06pm K:\NVA_Transit\110104122_West_End_Transitway_Design\CADD\PlanSheets\NS_PROFILE_VAN_DORN.dwg



ROADWAY PROFILE - SANGER AVE



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

ROADWAY PROFILE - SANGER AVENUE AT N VAN DORN STREET

SHEET C-208(A) SCALE AS SHOWN

90% DESIGN PHASE

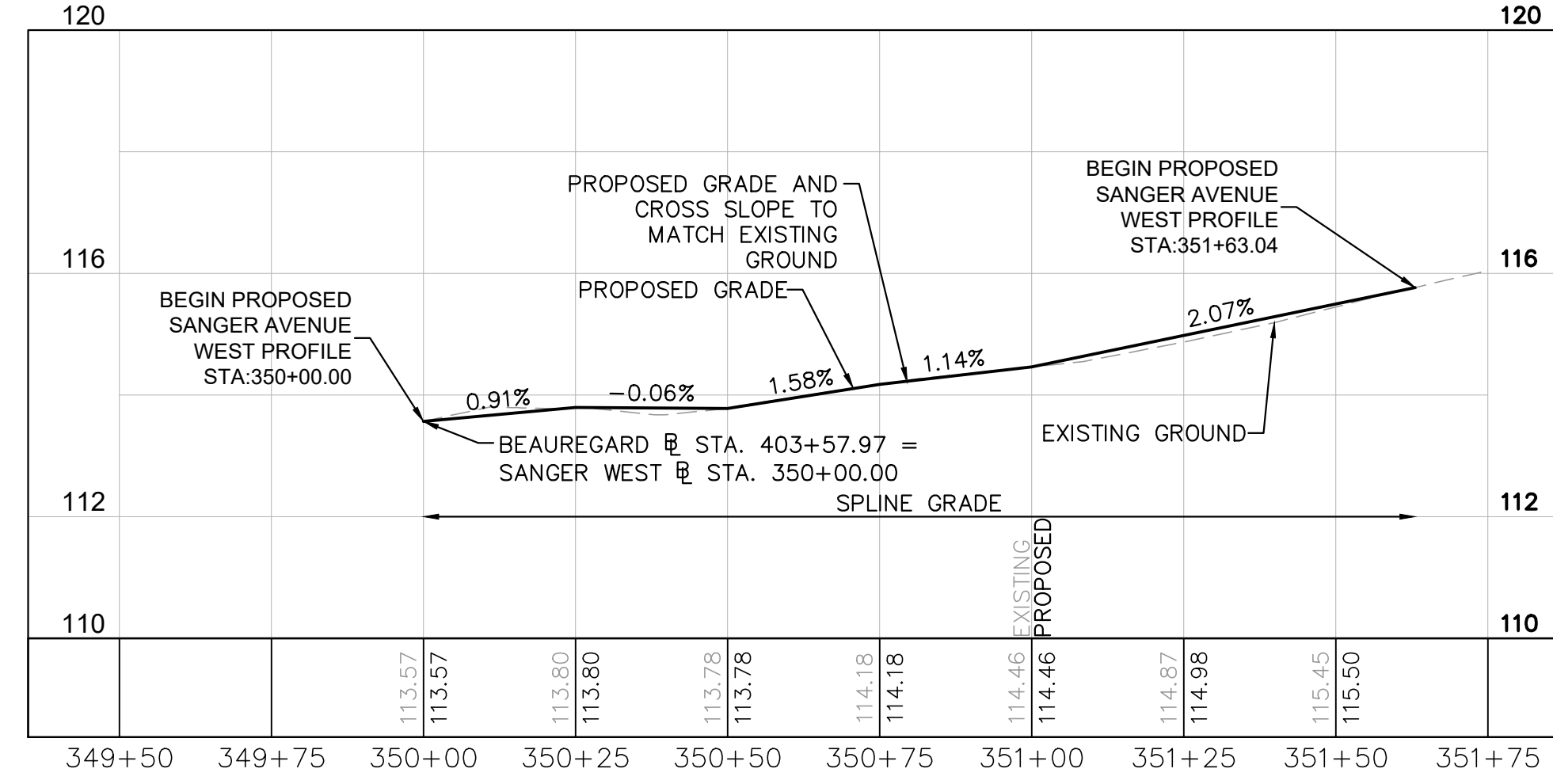
CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

REVISIONS	DESCRIPTION
DATE	BY
DATE	DESCRIPTION

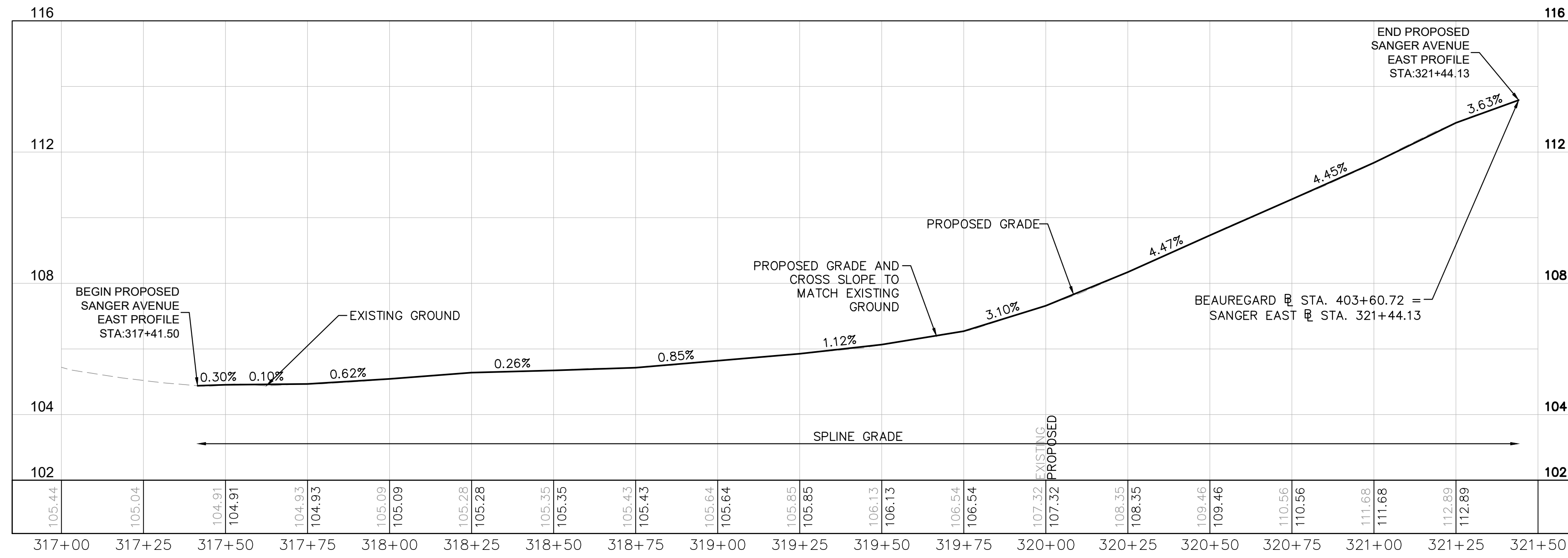
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 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
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 DRAWN BY: MAT DATE: 4/5/24
 CHECKED BY: EJD DATE: 4/5/24
 APPROVED BY: _____ DATE: _____



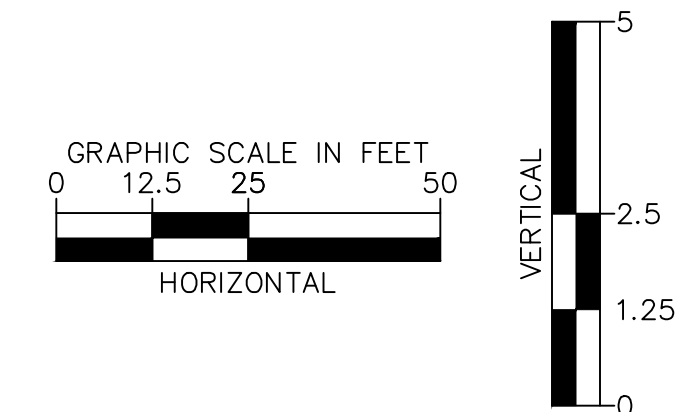
Plotted By: Waring, Megan Sheet Set: West End Transitway - Phase 1 Layout: C-209 PROFILE July 11, 2024 12:37:28pm K:\NVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\NS PROFILE BEAUREGARD.dwg



ROADWAY PROFILE - SANGER WEST



ROADWAY PROFILE - SANGER EAST



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

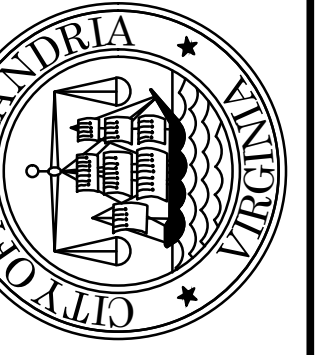
ROADWAY PROFILE - SANGER AVENUE AT N BEAUREGARD STREET

SHEET C-209
 SCALE AS SHOWN

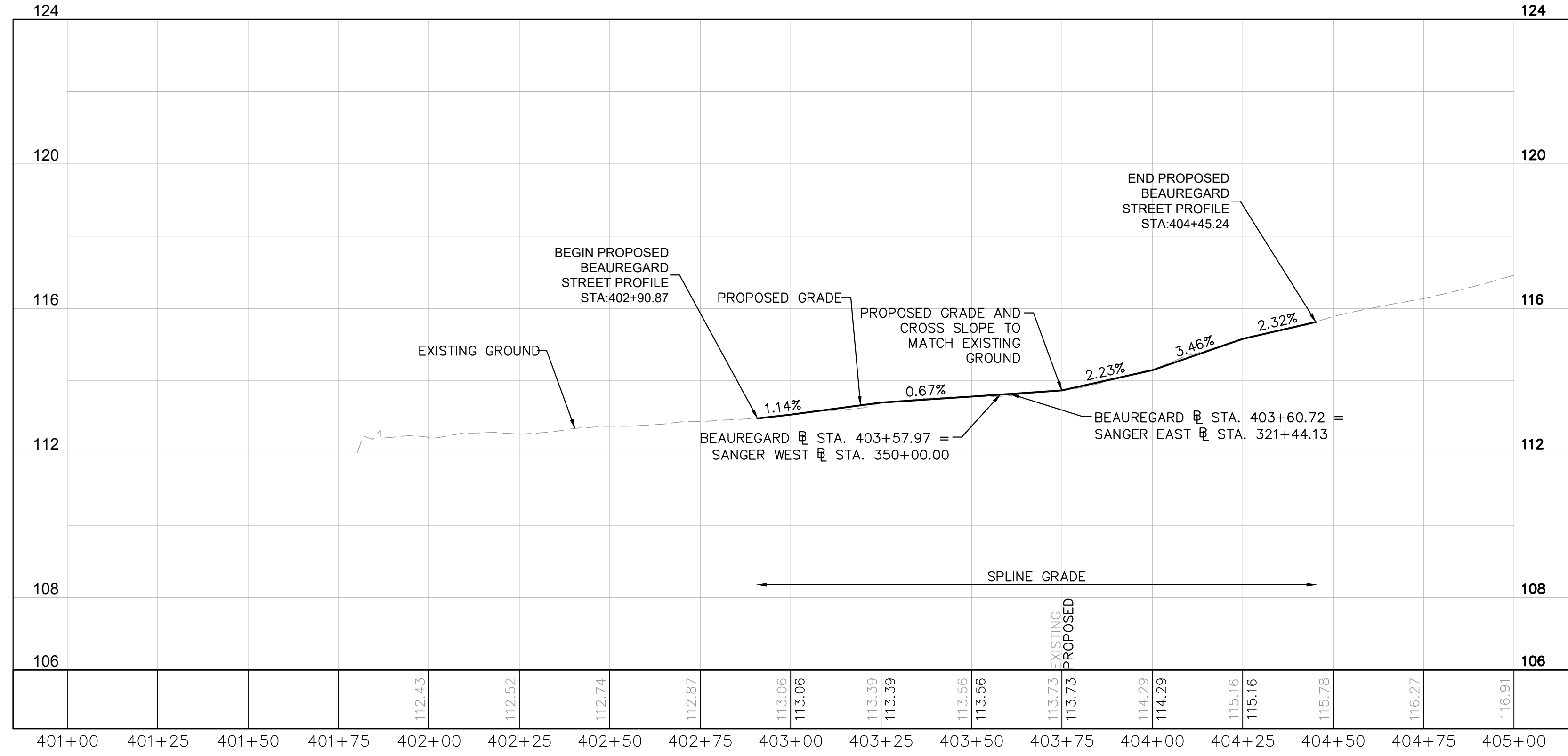
90% DESIGN PHASE

CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

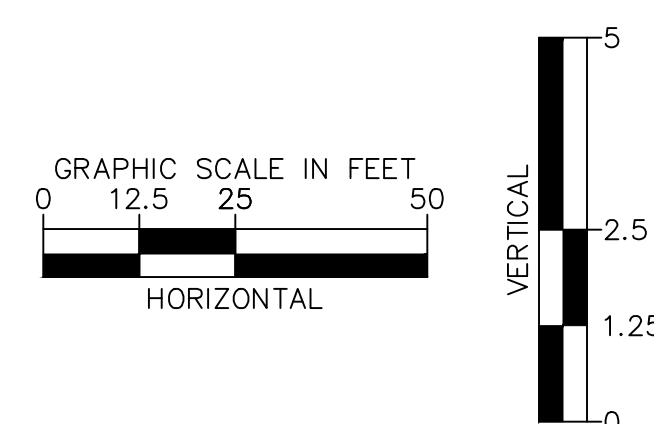
REVISIONS	DATE	DESCRIPTION
ALEXANDRIA PROJECT NO.: 110104122	DATE OF PLAN ISSUANCE: N/A	CONSULTANT PROJECT ID: N/A
	DESIGNED BY: EJD DATE: 4/5/24	DRAWN BY: MAT DATE: 4/5/24
	CHECKED BY: EJD DATE: 4/5/24	APPROVED BY: _____ DATE: _____



Plotted By: Waring, Megan Sheet Set: West End Transitway - Phase 1 Layout: C-209 PROFILE (A) July 11, 2024 12:37:33pm K:\NVA_Transit\110104122_West_End_Transitway_Design\CADD\PlanSheets\NS_PROFILE_BEAUREGARD.dwg



ROADWAY PROFILE - BEAUREGARD



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

ROADWAY PROFILE - N
BEAUREGARD STREET AT
SANGER AVENUE

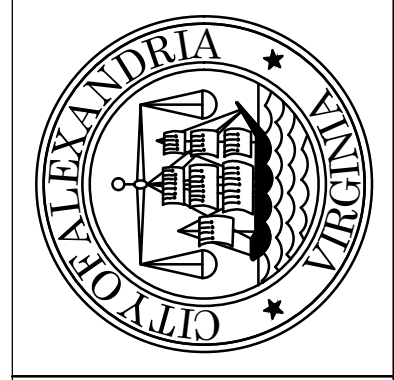
SHEET
C-209(A)
SCALE AS SHOWN

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DATE OF PLAN ISSUANCE:	N/A
CONSULTANT PROJECT ID.:	N/A
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DRAWN BY:	MAT DATE: 4/5/24
CHECKED BY:	EJD DATE: 4/5/24
APPROVED BY:	DATE:

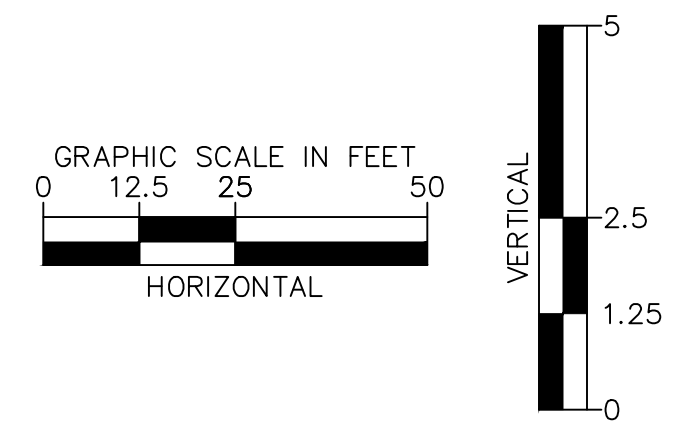
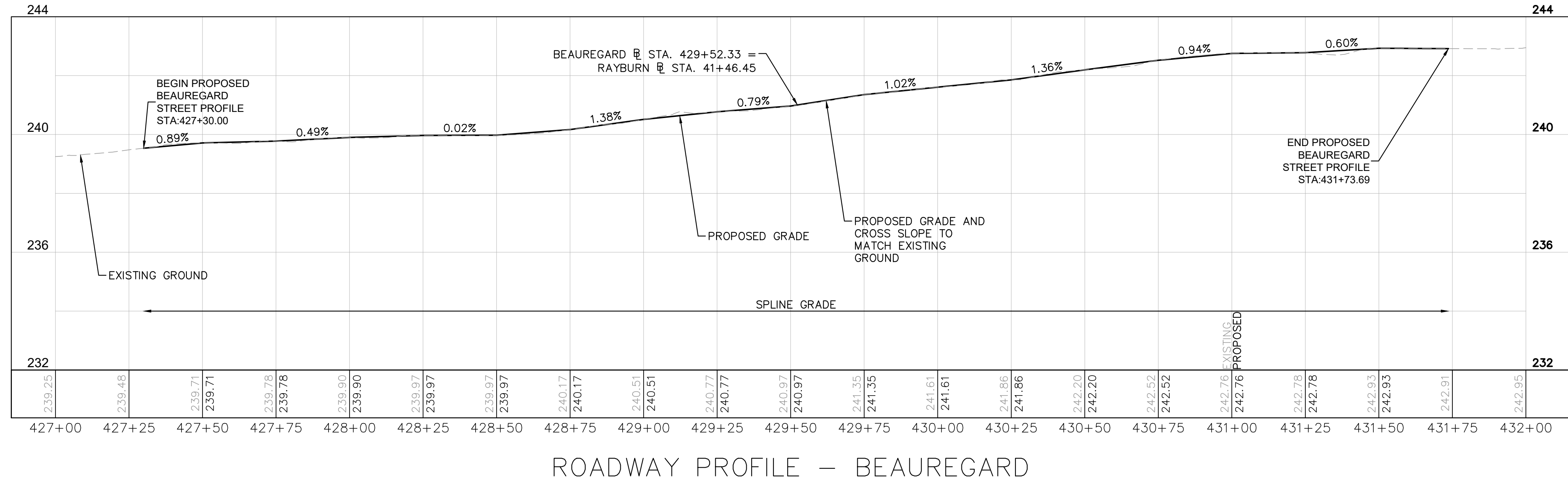
REVISIONS	DESCRIPTION
DATE	BY

CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

90% DESIGN PHASE



Plotted By: Waring, Megan Sheet Set: West End Transitway - Phase 1 Layout: C-211 PROFILE July 11, 2024 12:37:37pm K:\NVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\NS PROFILE BEAUREGARD.dwg



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

**ROADWAY PROFILE - N
 BEAUREGARD STREET AT
 RAYBURN AVENUE**

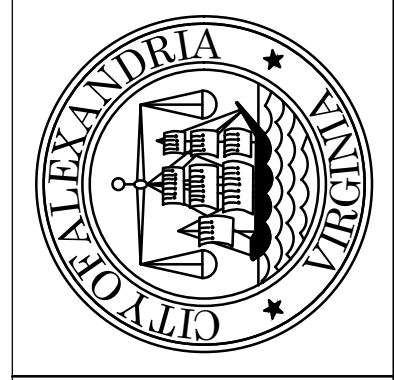
SHEET
 C-211
 SCALE AS SHOWN

ALEXANDRIA PROJECT NO.:	110104122
DATE OF PLAN ISSUANCE:	N/A
CONSULTANT PROJECT ID.:	N/A
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DRAWN BY:	MAT DATE: 4/5/24
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APPROVED BY:	DATE:

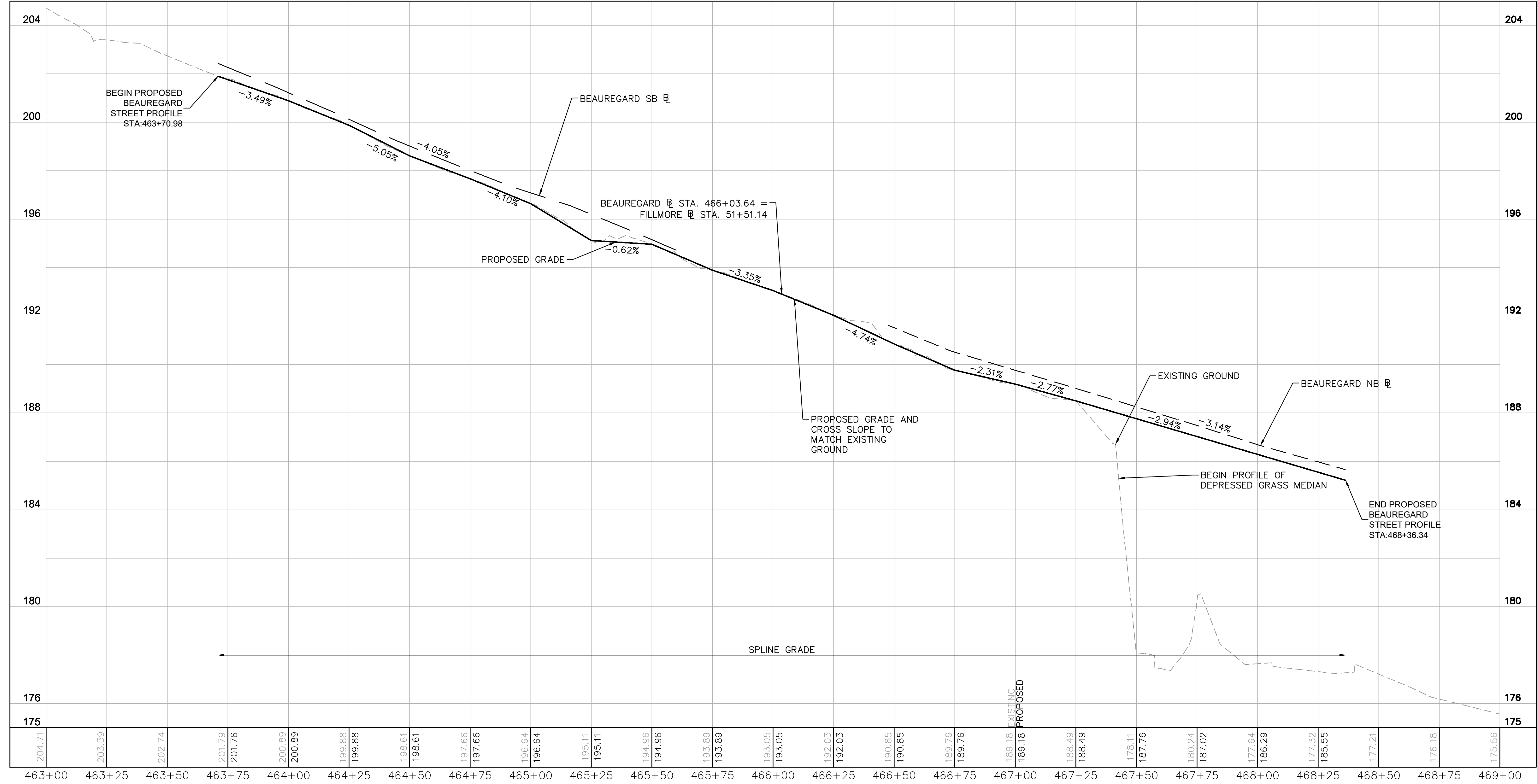
REVISIONS	DESCRIPTION
DATE	BY

90% DESIGN PHASE

CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

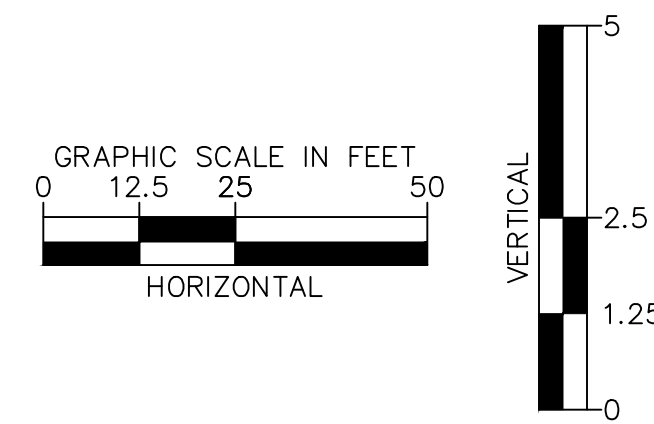


Plotted By: Waring, Megan Sheet Set: West End Transitway - Phase 1 Layout: C-212 PROFILE July 11, 2024 12:37:45pm K:\NVA_Transit\110104122_West_End_Transitway_Design\CADD\PlanSheets\NS_PROFILE_BEAUREGARD.dwg



ROADWAY PROFILE - BEAUREGARD

--- NORTHBOUND BASELINE
 --- SOUTHBOUND BASELINE



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

ROADWAY PROFILE - N
 BEAUREGARD STREET AT
 FILLMORE AVENUE

SHEET
 C-212
 SCALE AS SHOWN

90% DESIGN PHASE

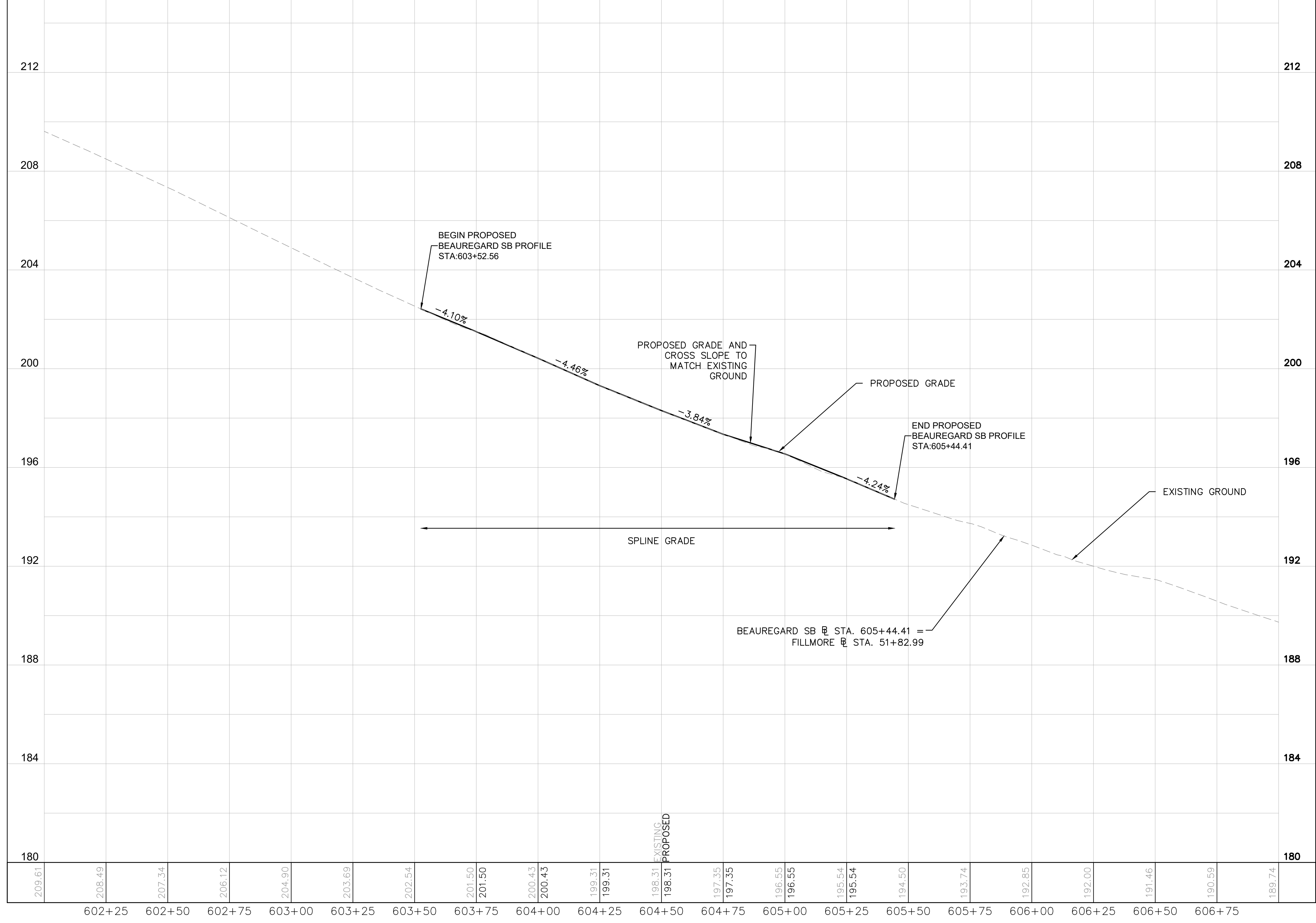
CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

REVISIONS	DESCRIPTION
DATE	BY
DATE	BY
DATE	BY
DATE	BY
DATE	BY

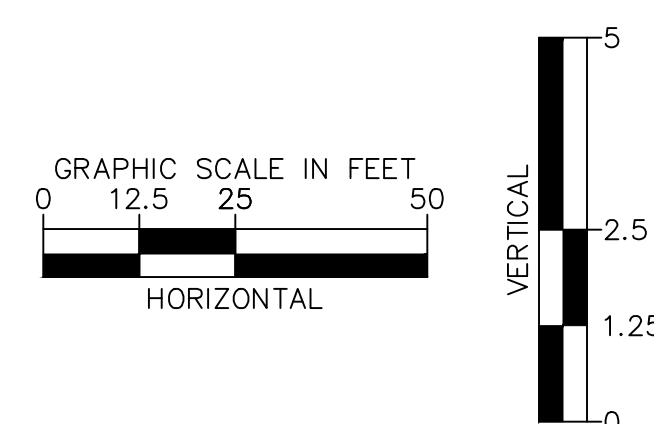
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 CONSULTANT PROJECT ID: N/A
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 DRAWN BY: MAT DATE: 4/5/24
 CHECKED BY: EJD DATE: 4/5/24
 APPROVED BY: _____ DATE: _____



Plotted By: Waring, Megan Sheet Set: West End Transitway - Phase 1 Layout: C-212 PROFILE (A) July 11, 2024 12:37:49pm K:\NVA_Transit\110104122_West_End_Transitway_Design\CADD\PlanSheets\NS_PROFILE_BEAUREGARD.dwg



ROADWAY PROFILE - BEAUREGARD SB



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

ROADWAY PROFILE - N
BEAUREGARD STREET SB AT
FILLMORE AVENUE

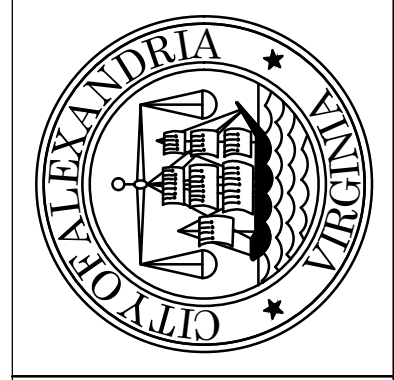
SHEET
C-212(A)
SCALE AS SHOWN

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CONSULTANT PROJECT ID.:	N/A
DESIGNED BY:	EJD DATE: 4/5/24
DRAWN BY:	MAT DATE: 4/5/24
CHECKED BY:	EJD DATE: 4/5/24
APPROVED BY:	DATE:

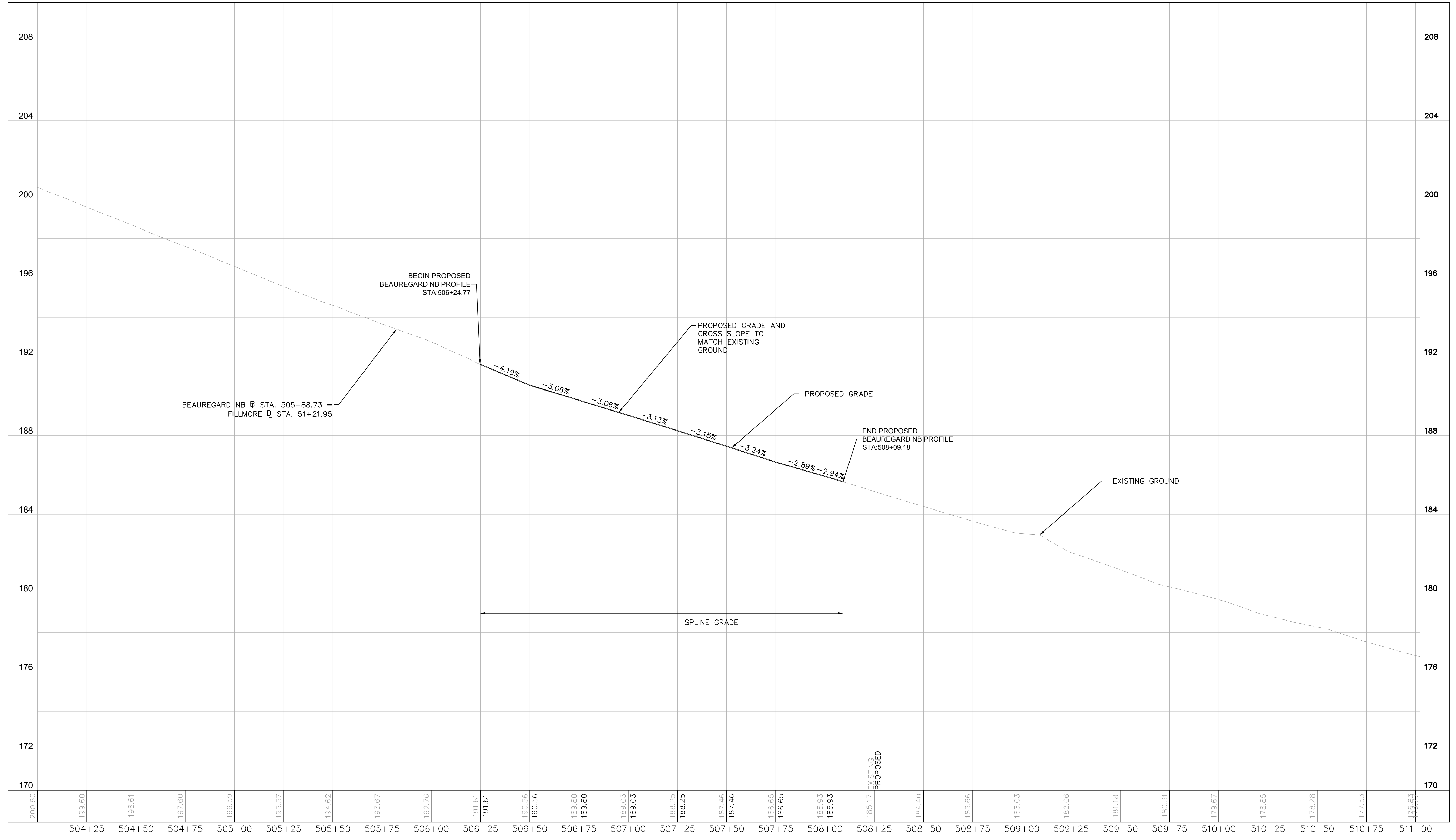
REVISIONS	DESCRIPTION
DATE	BY

90% DESIGN PHASE

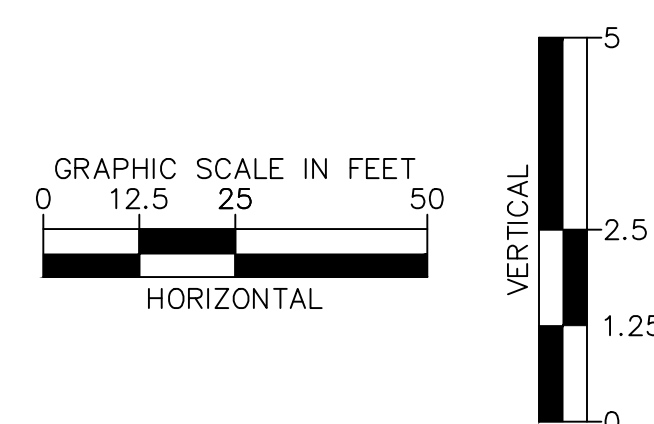
CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313



Plotted By: Waring, Megan Sheet Set: West End Transitway - Phase 1 Layout: C-212 PROFILE (B) July 11, 2024 12:37:52pm K:\NVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\NS_PROFILE_BEAUREGARD.dwg



ROADWAY PROFILE - BEAUREGARD NB



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

ROADWAY PROFILE - N
BEAUREGARD STREET NB AT
FILLMORE AVENUE

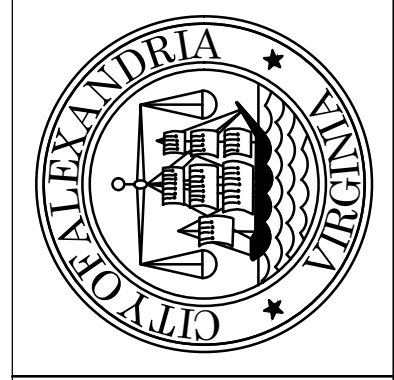
SHEET
C-212(B)
SCALE AS SHOWN

90% DESIGN PHASE

REVISIONS	DATE	BY	DESCRIPTION

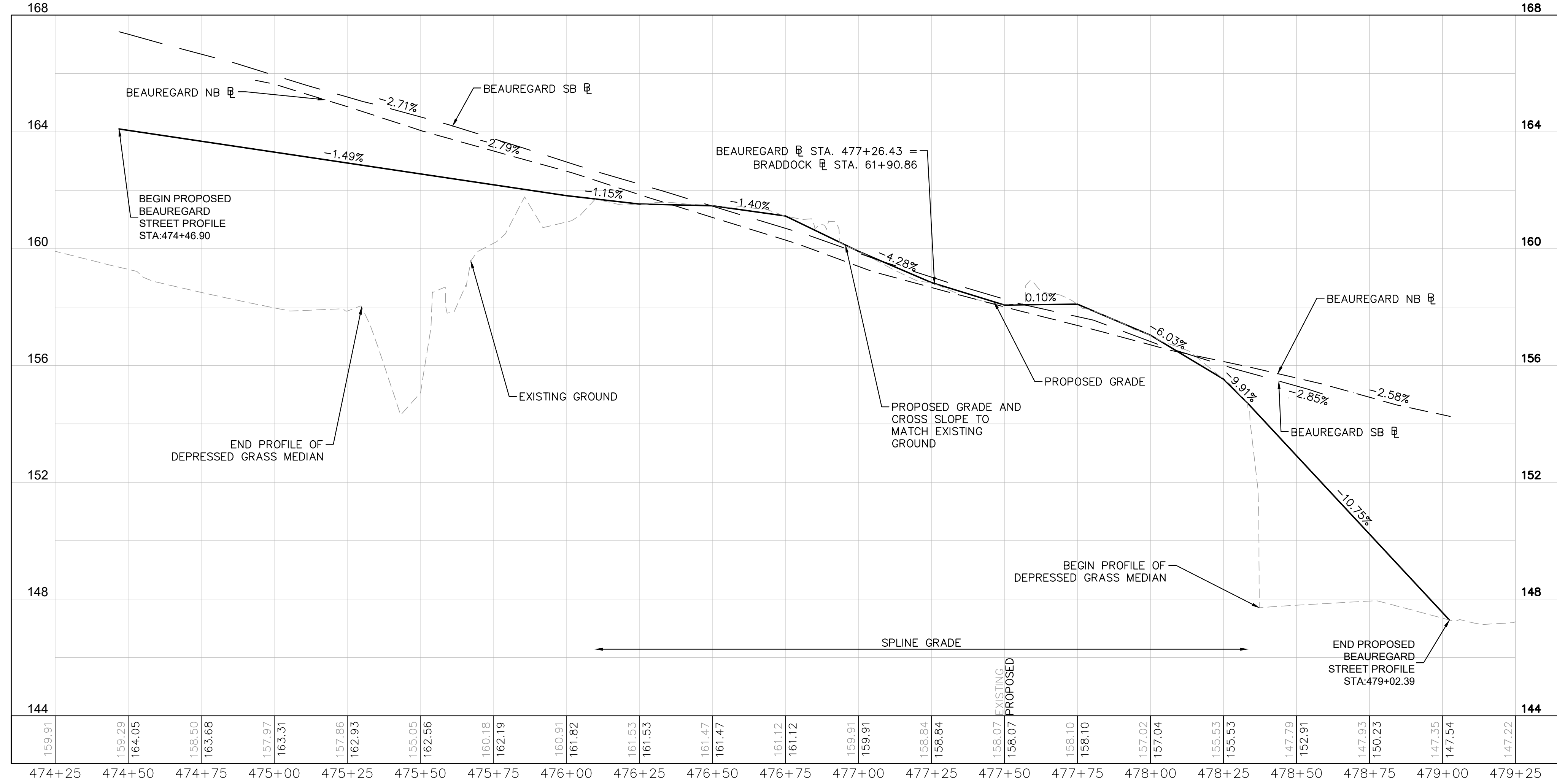
ALEXANDRIA PROJECT NO.: 110104122
 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: EJD DATE: 4/5/24
 DRAWN BY: MAT DATE: 4/5/24
 CHECKED BY: EJD DATE: 4/5/24
 APPROVED BY: _____ DATE: _____

CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

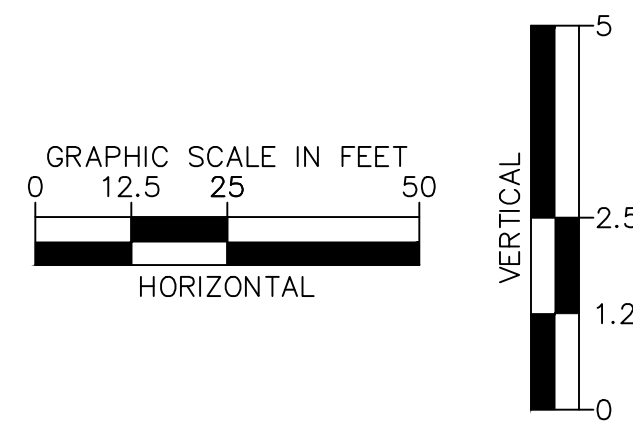


Plotted By: Waring, Megan Sheet Set: West End Transitway - Phase 1 Layout: C-213 PROFILE July 11, 2024 12:37:57pm K:\NVA_Transit\110104122_West_End_Transitway_Design\CADD\PlanSheets\NS_Profile_Beauregard.dwg

- - - - - NORTHBOUND BASELINE
 - - - - - SOUTHBOUND BASELINE



ROADWAY PROFILE - BEAUREGARD



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

ROADWAY PROFILE - N
BEAUREGARD STREET AT
BRADDOCK ROAD

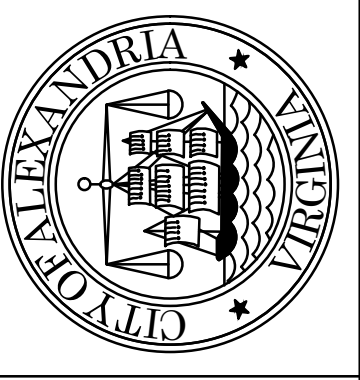
SHEET
C-213
SCALE AS SHOWN

ALEXANDRIA PROJECT NO.:	110104122
DATE OF PLAN ISSUANCE:	N/A
CONSULTANT PROJECT ID.:	N/A
DESIGNED BY:	EJD DATE: 4/5/24
DRAWN BY:	MAT DATE: 4/5/24
CHECKED BY:	EJD DATE: 4/5/24
APPROVED BY:	DATE:

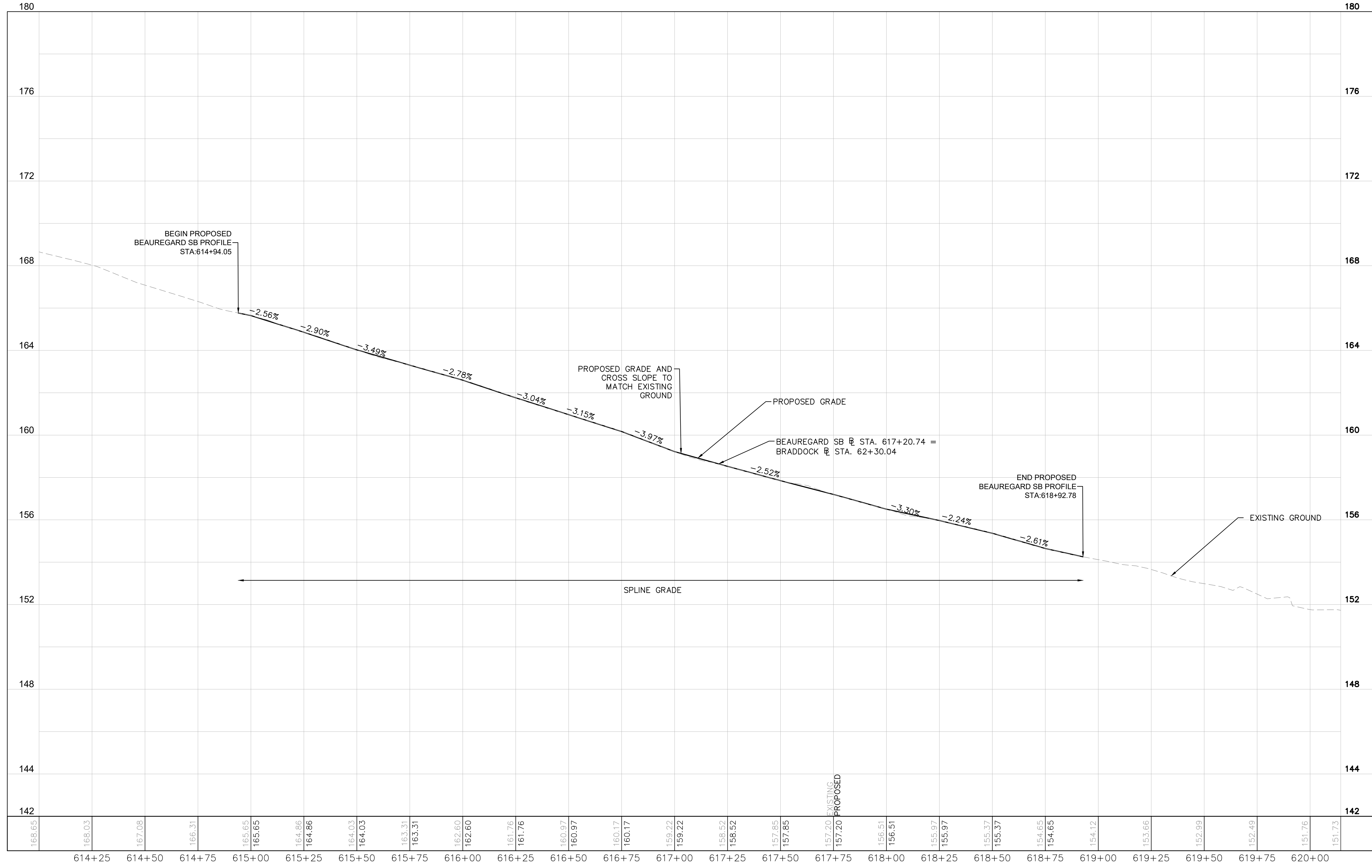
REVISIONS	DATE	DESCRIPTION

90% DESIGN PHASE

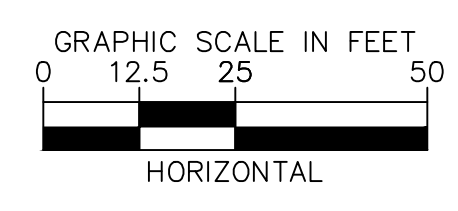
CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313



Plotted By: Waring, Megan Sheet Set: West End Transitway - Phase 1 Layout: C-213 PROFILE (A) July 11, 2024 12:38:00pm K:\NVA_Transit\110104122_West_End_Transitway_Design\CADD\PlanSheets\NS_PROFILE_BEAUREGARD.dwg



ROADWAY PROFILE - BEAUREGARD SB



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

ROADWAY PROFILE - N
BEAUREGARD STREET SB AT
BRADDOCK ROAD

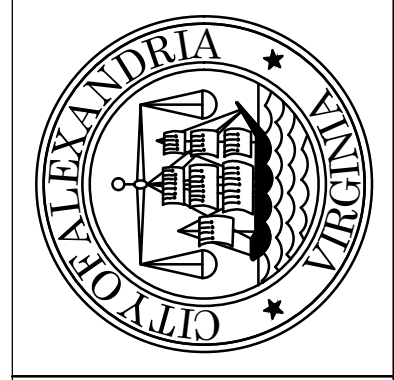
SHEET
C-213(A)
SCALE AS SHOWN

ALEXANDRIA PROJECT NO.:	110104122
DATE OF PLAN ISSUANCE:	N/A
CONSULTANT PROJECT ID.:	N/A
DESIGNED BY:	MAT. DATE: 4/5/24
DRAWN BY:	MAT. DATE: 4/5/24
CHECKED BY:	EJD. DATE: 4/5/24
APPROVED BY:	DATE:

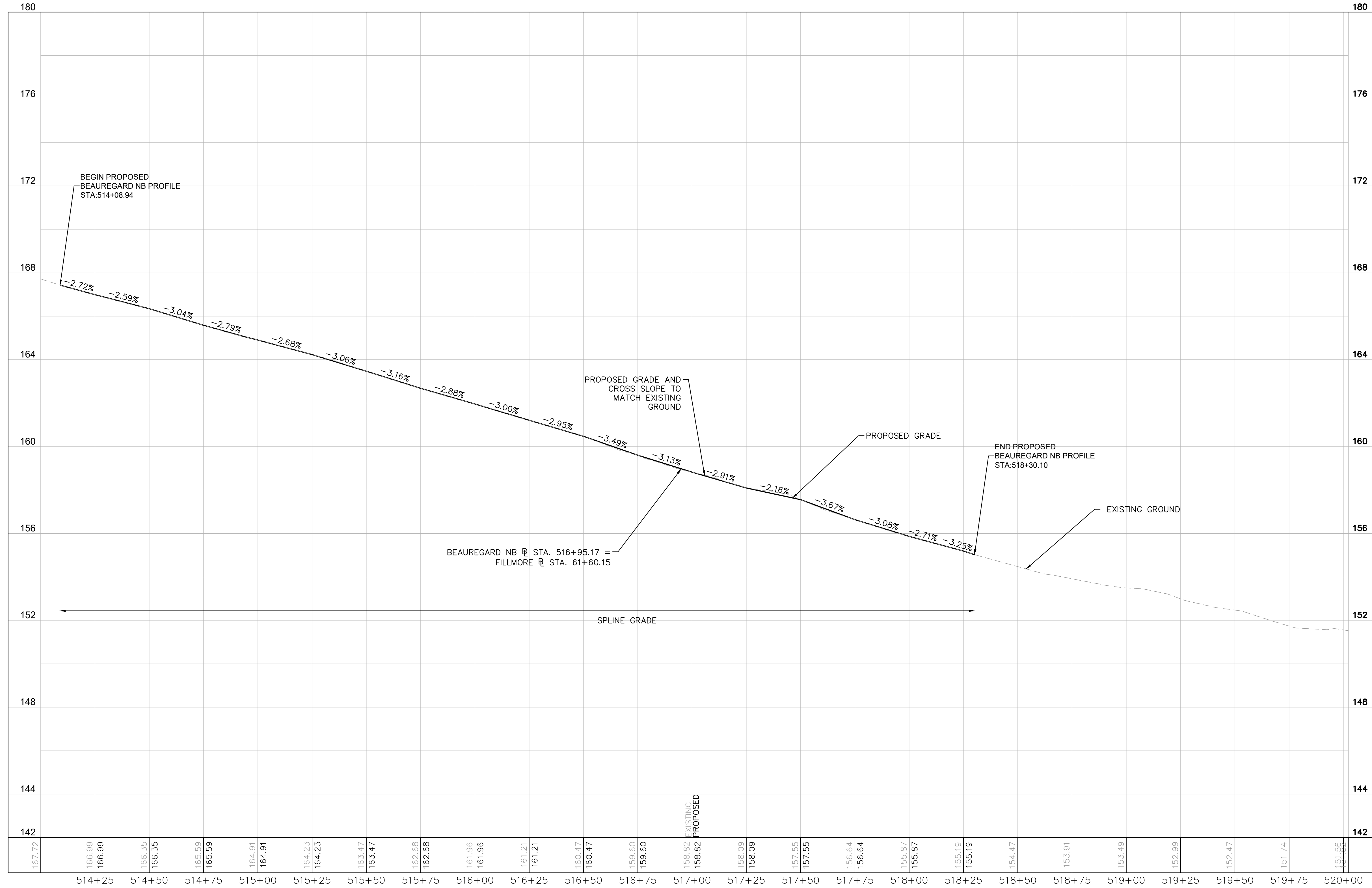
REVISIONS	DESCRIPTION
DATE	BY

CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

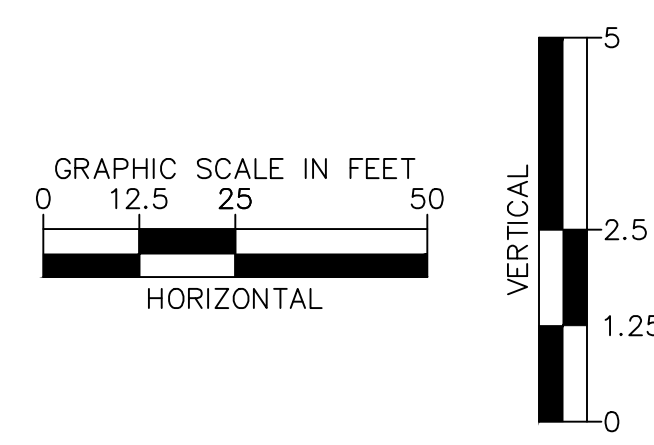
90% DESIGN PHASE



Plotted By: Waring, Megan Sheet Set: West End Transitway - Phase 1 Layout: C-213 PROFILE (B) July 11, 2024 12:38:02pm K:\NVA_Transit\110104122_West_End_Transitway_Design\CADD\PlanSheets\NS_PROFILE_BEAUREGARD.dwg



ROADWAY PROFILE – BEAUREGARD NB

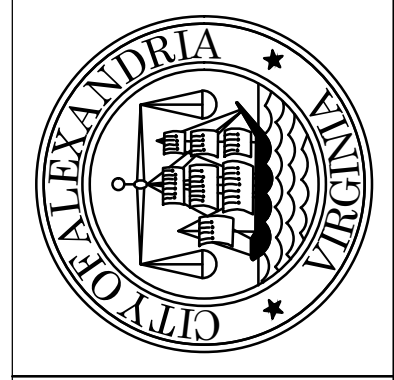


WEST END TRANSITWAY – PHASE 1 IMPROVEMENTS

ROADWAY PROFILE – N
BEAUREGARD STREET NB AT
BRADDOCK ROAD

SHEET
C-213(B)
SCALE AS SHOWN

90% DESIGN PHASE

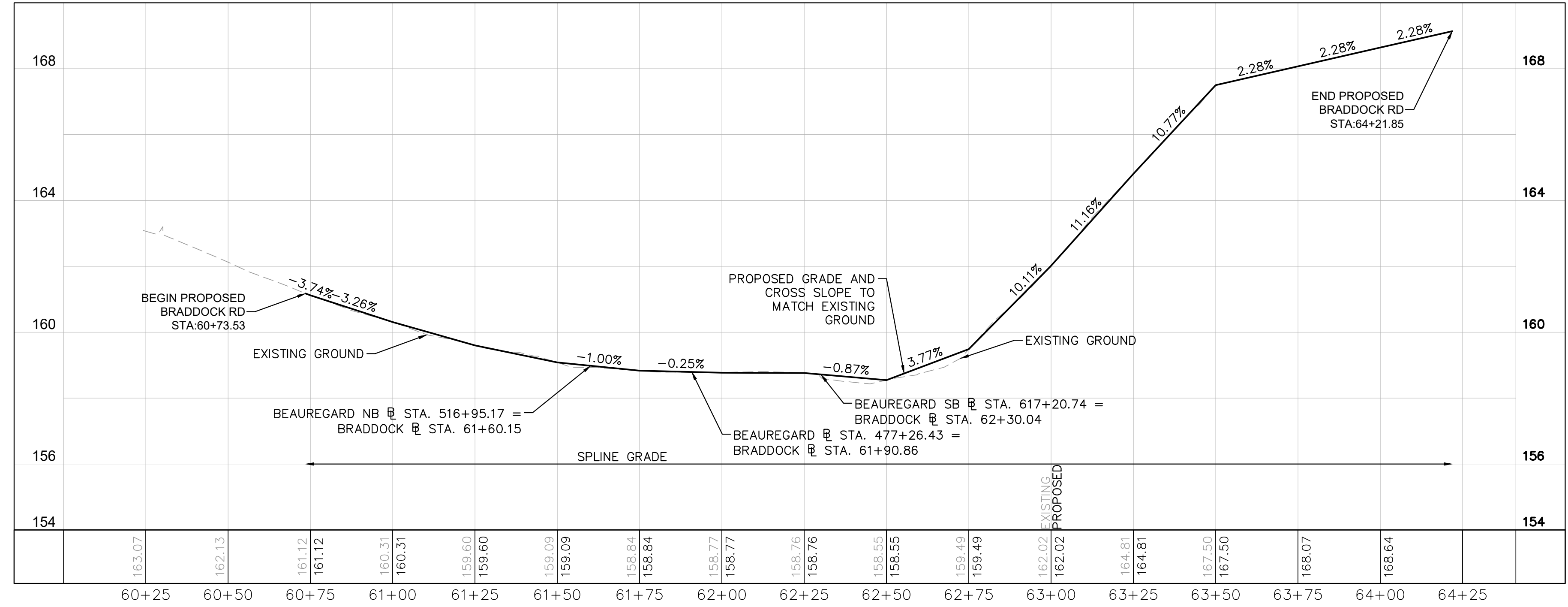


CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

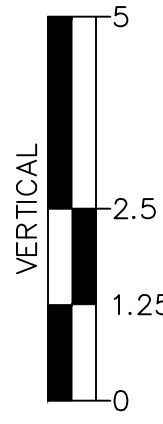
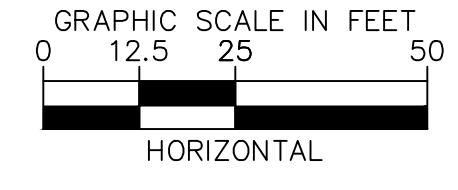
REVISIONS	DATE	DESCRIPTION

ALEXANDRIA PROJECT NO.: 110104122
 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: EJD DATE: 4/5/24
 DRAWN BY: MAT DATE: 4/5/24
 CHECKED BY: EJD DATE: 4/5/24
 APPROVED BY: _____ DATE: _____

Plotted By: Waring, Megan Sheet Set: West End Transitway - Phase 1 Layout: C-213 PROFILE (C) July 11, 2024 12:38:05pm K:\NVA_Transit\110104122_West_End_Transitway_Design\CADD\PlanSheets\NS_Profile_BEAUREGARD.dwg



ROADWAY PROFILE - BRADDOCK RD



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

ROADWAY PROFILE -
BRADDOCK ROAD

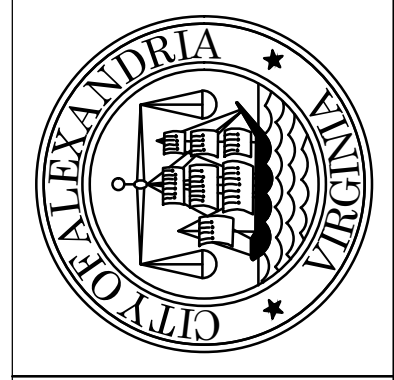
SHEET
C-213(C)
SCALE AS SHOWN

ALEXANDRIA PROJECT NO.: 110104122
 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: EJD DATE: 4/5/24
 DRAWN BY: MAT DATE: 4/5/24
 CHECKED BY: EJD DATE: 4/5/24
 APPROVED BY: _____ DATE: _____

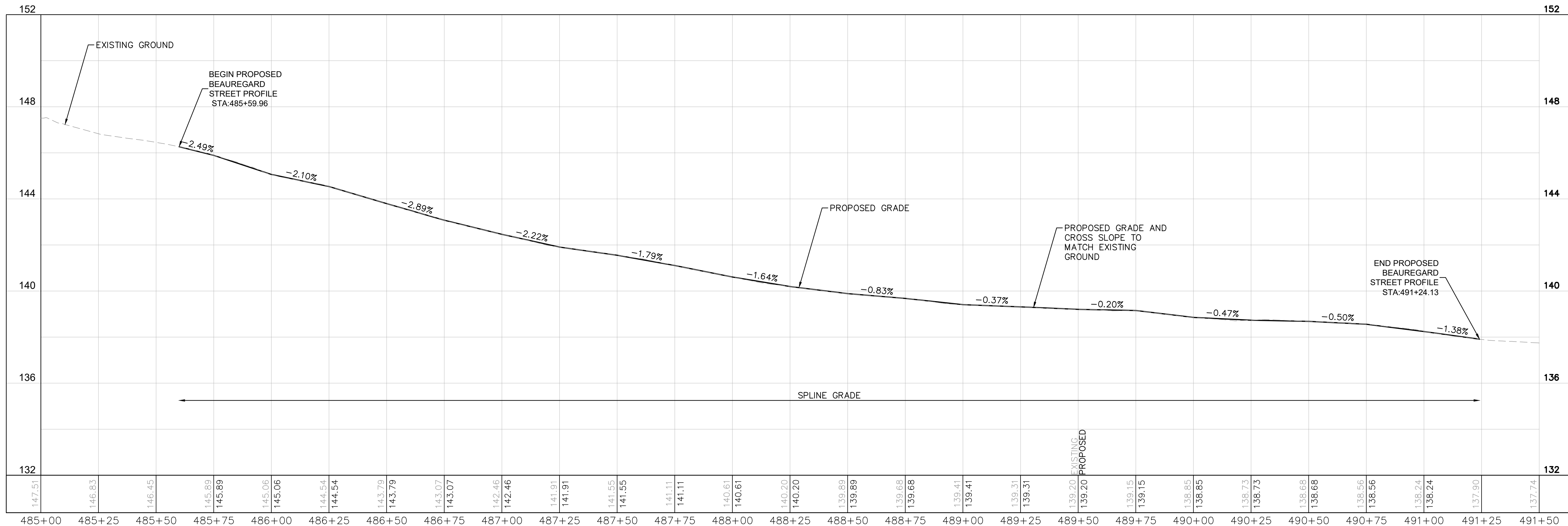
REVISIONS	DATE	DESCRIPTION

90% DESIGN PHASE

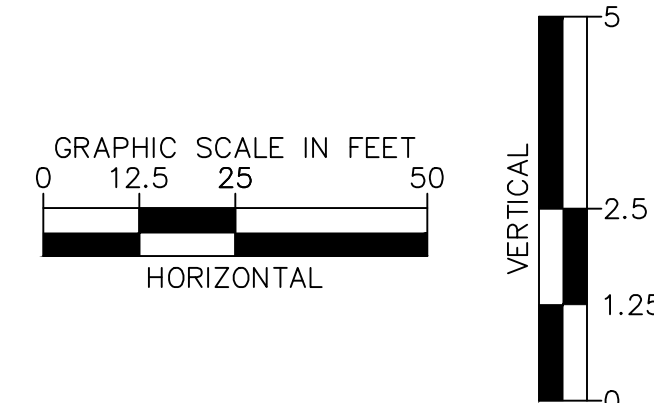
CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313



Plotted By: Waring, Megan Sheet Set: West End Transitway - Phase 1 Layout: C-214 PROFILE July 11, 2024 12:38:07pm K:\NVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\NS PROFILE BEAUREGARD.dwg



ROADWAY PROFILE - BEAUREGARD



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

ROADWAY PROFILE - N
 BEAUREGARD STREET AT
 KING STREET

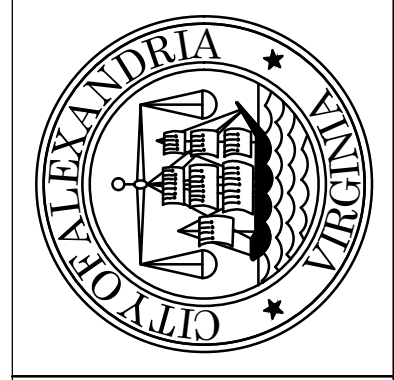
SHEET
 C-214
 SCALE AS SHOWN

ALEXANDRIA PROJECT NO.:	110104122
DATE OF PLAN ISSUANCE:	N/A
CONSULTANT PROJECT ID.:	N/A
DESIGNED BY:	EJD DATE: 4/5/24
DRAWN BY:	MAT DATE: 4/5/24
CHECKED BY:	EJD DATE: 4/5/24
APPROVED BY:	DATE:

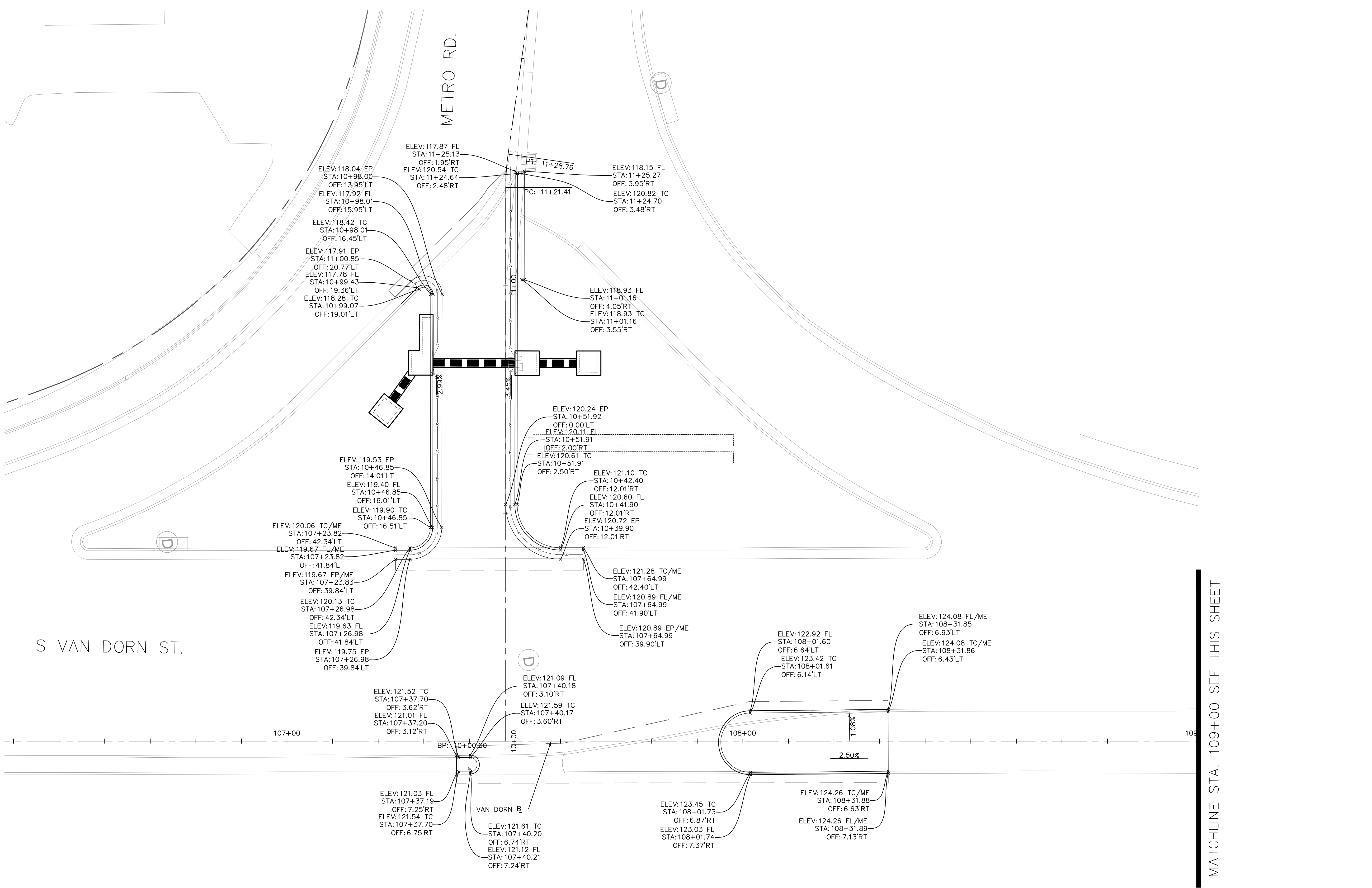
REVISIONS	DATE	DESCRIPTION

CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

90% DESIGN PHASE



Plotted By: Phillips, Mark Sheet Set: West End Transitway - Phase 1 Layout: C-301 GRADING DETAIL - S VAN DORN STREET AT METRO ROAD July 12, 2024 05:28:49am K:\NVA_Transit\10104122_West End Transitway Design\CADD\PlanSheets\GRADING PLAN VAN DORN.dwg



S VAN DORN ST.

METRO RD.

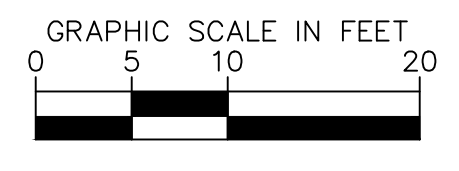
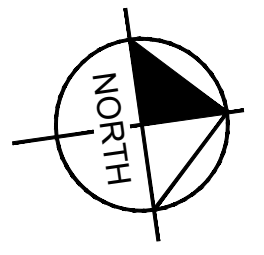
MATCHLINE STA. 109+00 SEE THIS SHEET

NOTES

- 1. 4" MOUNTABLE CURB REQ'D

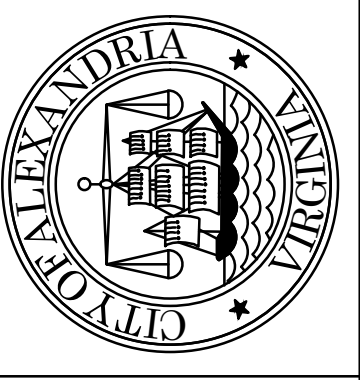
LEGEND

- TC TOP OF CURB
- FL FLOW LINE
- EP EDGE OF PAVEMENT
- SW SIDEWALK OR RAMP
- ME MATCH EXISTING



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE



CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

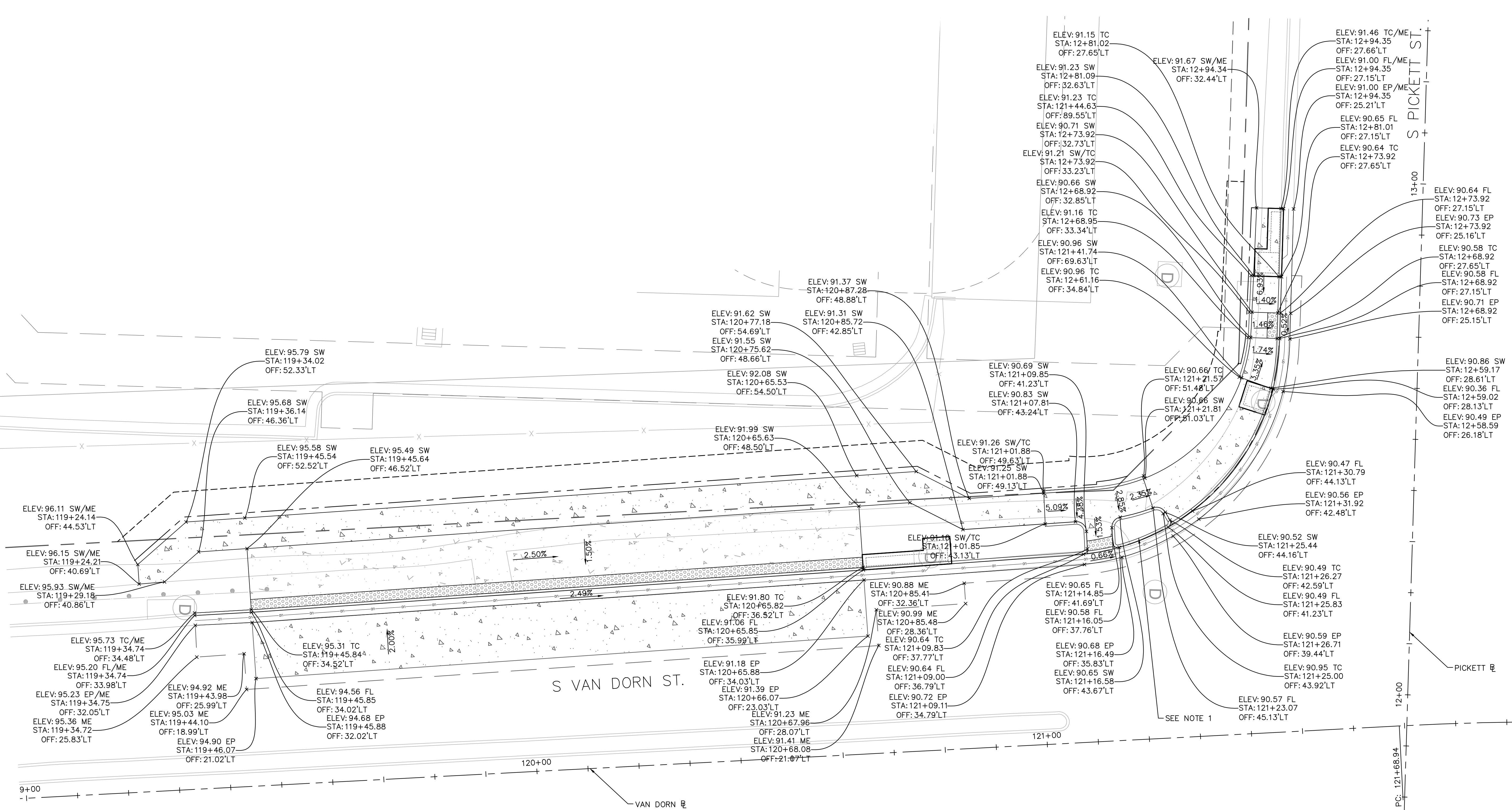
REVISIONS	DESCRIPTION
DATE	BY

ALEXANDRIA PROJECT NO.:	110104122
DATE OF PLAN ISSUANCE:	N/A
CONSULTANT PROJECT ID.:	N/A
DESIGNED BY:	EJD DATE: 4/5/24
DRAWN BY:	MAT DATE: 4/5/24
CHECKED BY:	EJD DATE: 4/5/24
APPROVED BY:	DATE:

GRADING DETAILS - S
 VAN DORN STREET AT
 METRO ROAD

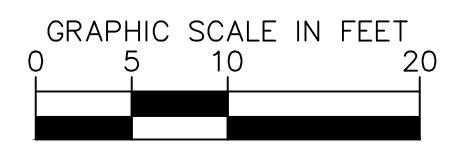
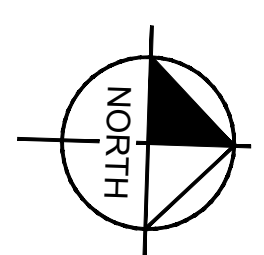
SHEET
 C-301
 SCALE 1" = 10'

Plotted By: Phillips, Mark Sheet Set: West End Transitway - Phase 1 Layout: C-302 GRADING DETAIL - S VAN DORN STREET AT S PICKETT STREET July 12, 2024 05:30:05am K:\NVA_Transit\110104122_West_End_Transitway_Design\CADD\PlanSheets\GRADING_PLAN_VAN_DORN.dwg



NOTES
 1. 4" MOUNTABLE CURB REQ'D

LEGEND
 TC TOP OF CURB
 FL FLOW LINE
 EP EDGE OF PAVEMENT
 SW SIDEWALK OR RAMP
 ME MATCH EXISTING



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS



CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

REVISIONS	DESCRIPTION
DATE	
BY	

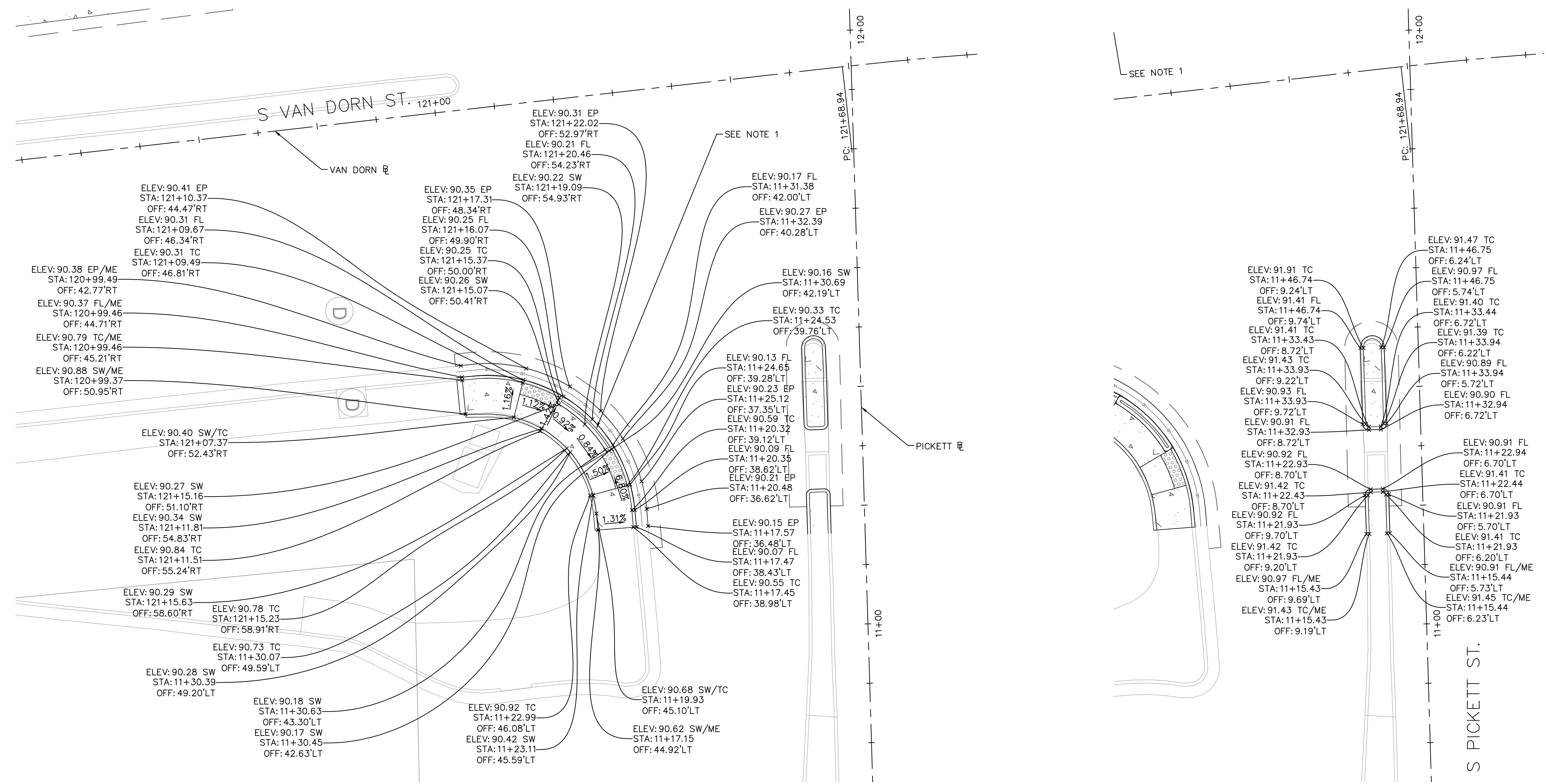
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DATE OF PLAN ISSUANCE:	N/A
CONSULTANT PROJECT ID.:	N/A
DESIGNED BY:	EJD DATE: 4/5/24
DRAWN BY:	MAT DATE: 4/5/24
CHECKED BY:	EJD DATE: 4/5/24
APPROVED BY:	DATE:

GRADING DETAILS - S VAN DORN STREET AT S PICKETT STREET

SHEET
 C-302
 SCALE 1" = 10'

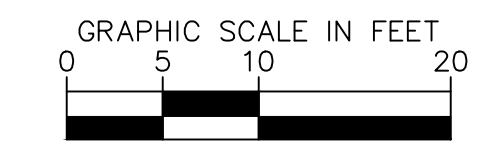
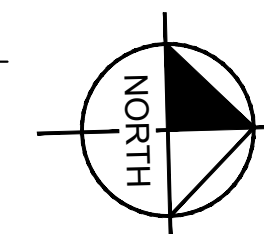
90% DESIGN PHASE

Plotted By: Waring, Megan Sheet Set: West End Transitway - Phase 1 Layout: C-304 GRADING DETAIL - S VAN DORN STREET AT S PICKETT STREET July 11, 2024 12:39:35pm K:\WA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\GRADING PLAN VAN DORN.dwg

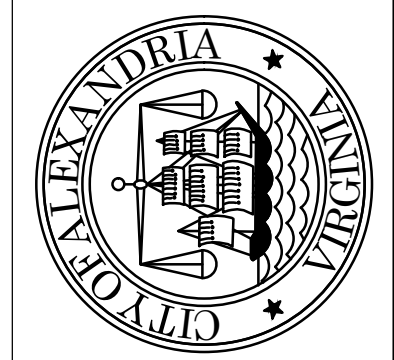


NOTES
 1. 4" MOUNTABLE CURB REQ'D

LEGEND
 TC TOP OF CURB
 FL FLOW LINE
 EP EDGE OF PAVEMENT
 SW SIDEWALK OR RAMP
 ME MATCH EXISTING



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS 90% DESIGN PHASE



CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

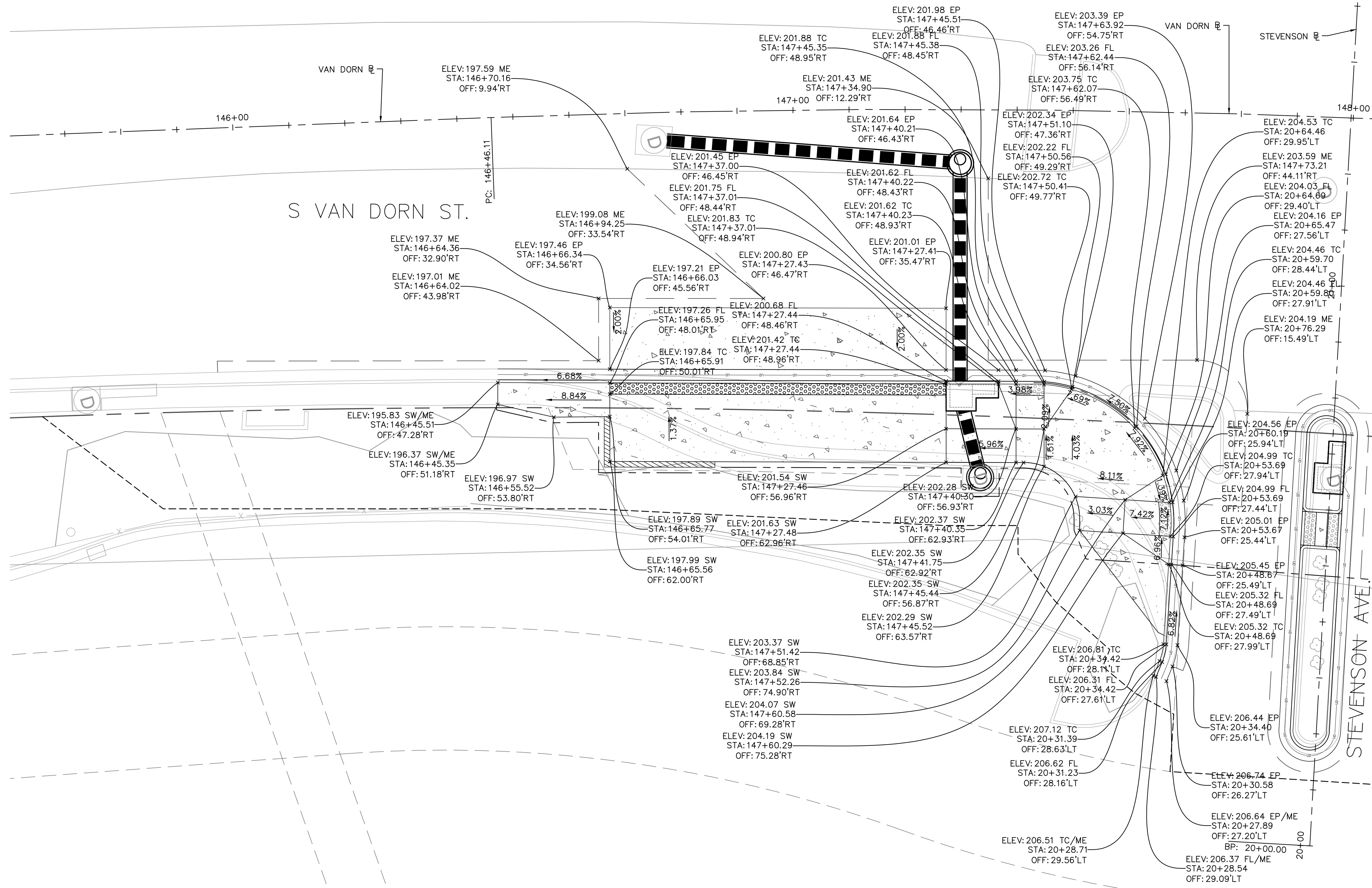
REVISIONS	DATE	DESCRIPTION

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DATE OF PLAN ISSUANCE:	N/A
CONSULTANT PROJECT ID.:	N/A
DESIGNED BY:	EJD DATE: 4/5/24
DRAWN BY:	MAT DATE: 4/5/24
CHECKED BY:	MAT DATE: 4/5/24
APPROVED BY:	

GRADING DETAILS - S
 VAN DORN STREET AT S
 PICKETT STREET

SHEET
 C-304
 SCALE 1" = 10'

Plotted By: Phillips, Mark Sheet Set: West End Transitway - Phase 1 Layout: C-306 GRADING DETAIL - S VAN DORN STREET AT STEVENSON AVENUE July 12, 2024 05:30:42am K:\NVA_Transit\110104122_West_End_Transitway_Design\CADD\PlanSheets\GRADING PLAN VAN DORN.dwg

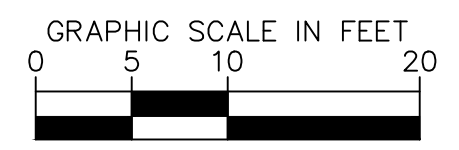
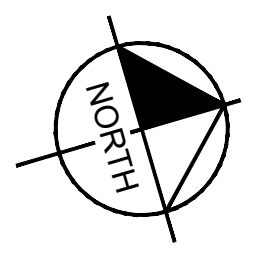


NOTES

1. 1.4" MOUNTABLE CURB REQ'D

LEGEND

TC TOP OF CURB
 FL FLOW LINE
 EP EDGE OF PAVEMENT
 SW SIDEWALK OR RAMP
 ME MATCH EXISTING



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS



CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

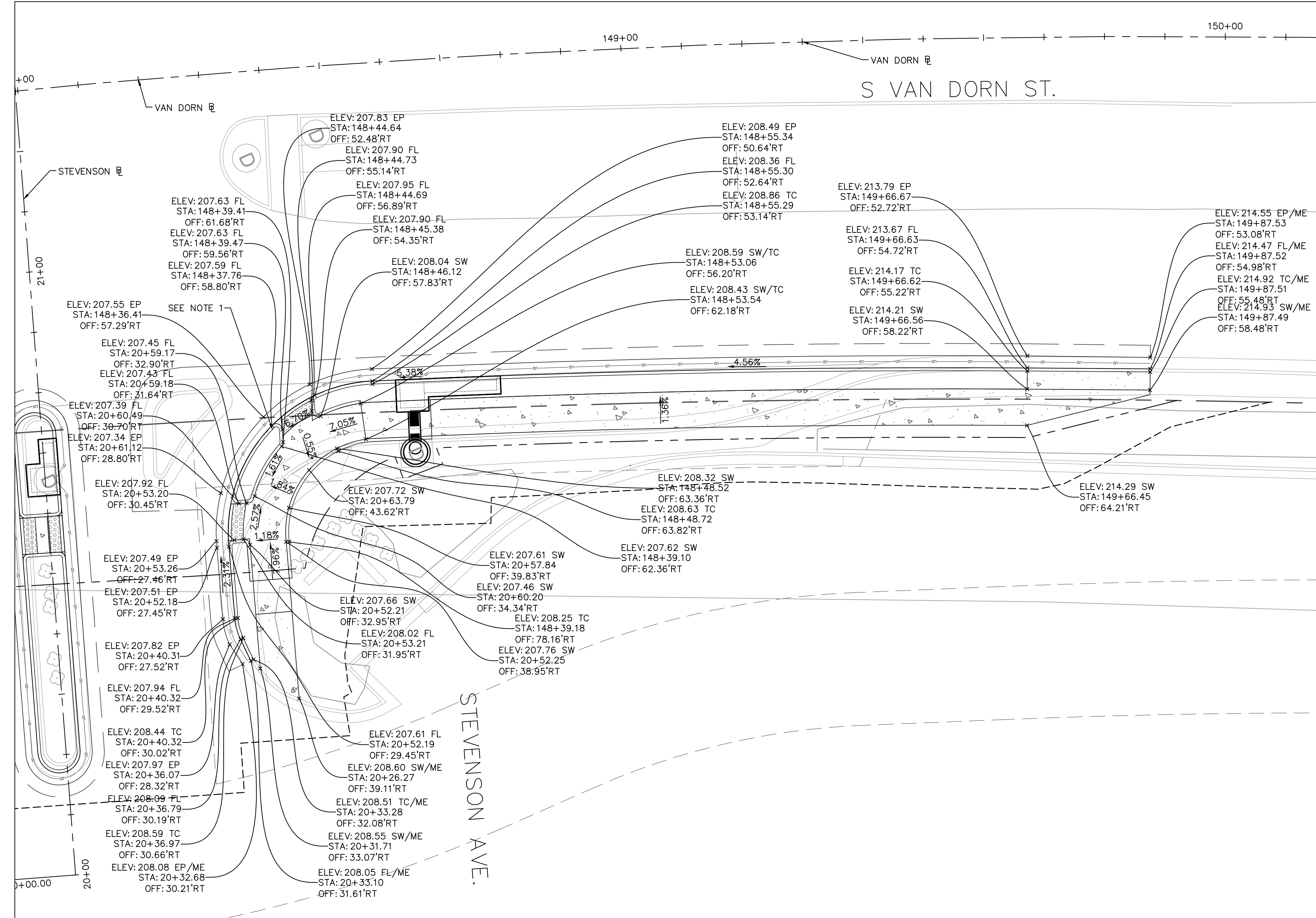
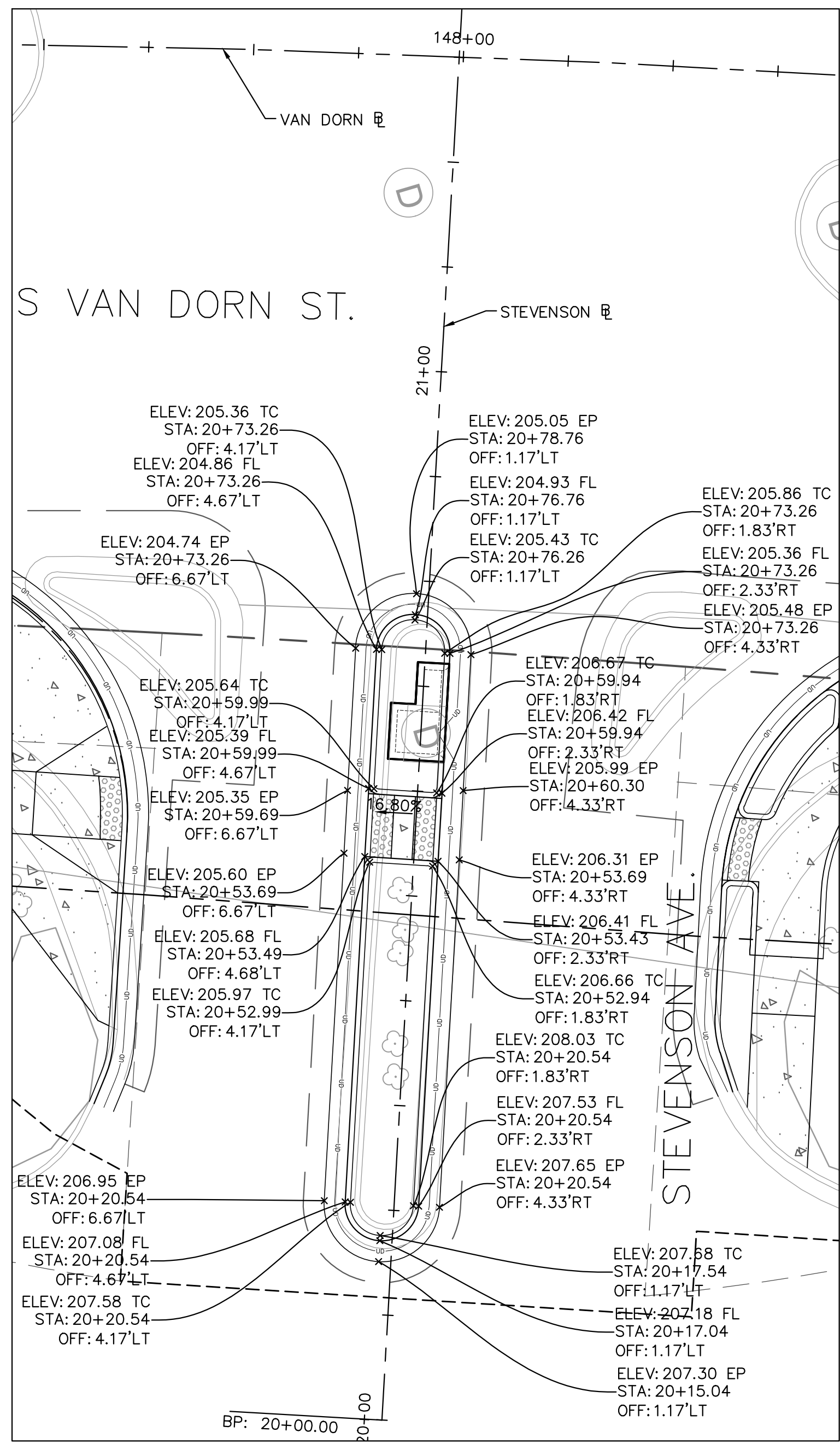
REVISIONS	DESCRIPTION
DATE	BY

ALEXANDRIA PROJECT NO. 110104122	DATE OF PLAN ISSUANCE: N/A
CONSULTANT PROJECT ID: N/A	DESIGNED BY: EJD DATE: 4/5/24
	DRAWN BY: MAT DATE: 4/5/24
	CHECKED BY: EJD DATE: 4/5/24
	APPROVED BY: _____ DATE: _____

GRADING DETAILS - S VAN DORN STREET AT STEVENSON AVENUE
 SHEET C-306
 SCALE 1" = 10'

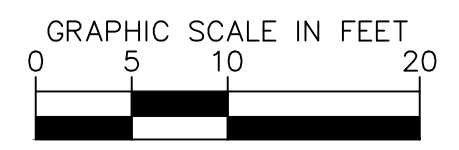
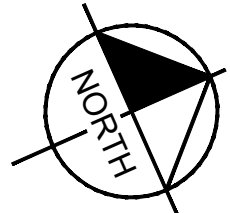
90% DESIGN PHASE

Plotted By: Waring, Megan Sheet Set: West End Transitway - Phase 1 Layout: C-307 GRADING DETAIL - S VAN DORN STREET AT STEVENSON AVENUE July 11, 2024 12:40:00pm K:\NVA_Transit\110104122_West_End_Transitway_Design\CADD\PlanSheets\GRADING PLAN VAN DORN.dwg



NOTES
 1. 4" MOUNTABLE CURB REQ'D

LEGEND
 TC TOP OF CURB
 FL FLOW LINE
 EP EDGE OF PAVEMENT
 SW SIDEWALK OR RAMP
 ME MATCH EXISTING



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS



CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

REVISIONS	DESCRIPTION	DATE	BY

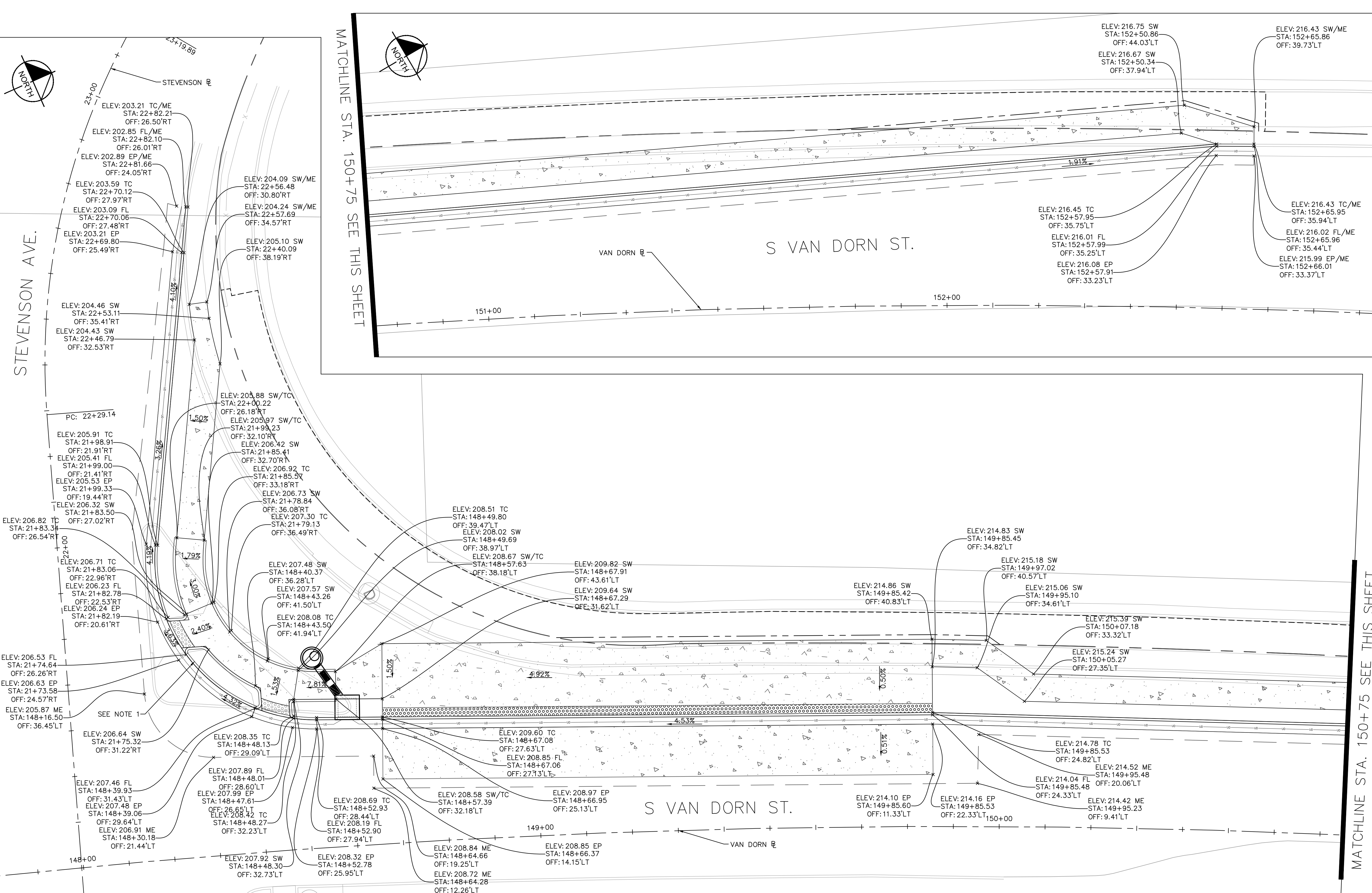
ALEXANDRIA PROJECT NO.: 110104122
 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: EJD DATE: 4/5/24
 DRAWN BY: MAT DATE: 4/5/24
 CHECKED BY: EJD DATE: 4/5/24
 APPROVED BY: _____ DATE: _____

GRADING DETAILS - S VAN DORN STREET AT STEVENSON AVENUE

SHEET
 C-307
 SCALE 1" = 10'

90% DESIGN PHASE

Plotted By: Waring, Megan Sheet Set: West End Transitway - Phase 1 Layout: C-308 GRADING DETAIL - S VAN DORN STREET AT STEVENSON AVENUE July 11, 2024 12:40:10pm K:\NVA_Transit\110104122_West_End_Transitway_Design\CADD\PlanSheets\Grading\Plan_VAN_DORN.dwg



STEVENSON AVE.

MATCHLINE STA. 150+75 SEE THIS SHEET

MATCHLINE STA. 150+75 SEE THIS SHEET

NOTES

- 1. 4" MOUNTABLE CURB REQ'D

LEGEND

- TC TOP OF CURB
- FL FLOW LINE
- EP EDGE OF PAVEMENT
- SW SIDEWALK OR RAMP
- ME MATCH EXISTING



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS 90% DESIGN PHASE



CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

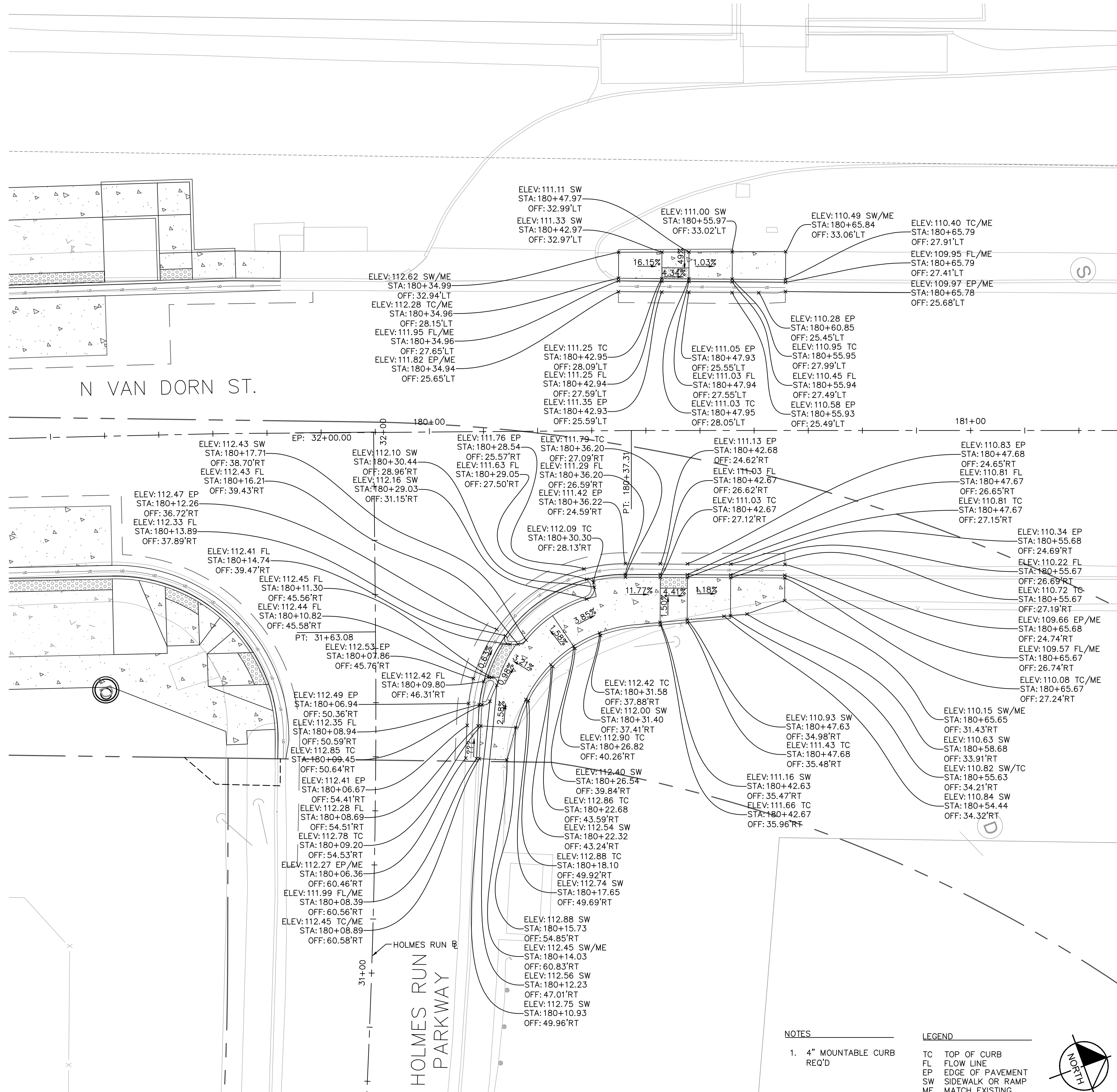
REVISIONS	DATE	DESCRIPTION

ALEXANDRIA PROJECT NO.: 110104122
 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: EJD DATE: 4/5/24
 DRAWN BY: MAT DATE: 4/5/24
 CHECKED BY: EJD DATE: 4/5/24
 APPROVED BY: _____ DATE: _____

GRADING DETAILS - S
 VAN DORN STREET AT
 STEVENSON AVENUE

SHEET
 C-308
 SCALE 1" = 10'

Plotted By: Waring, Megan Sheet Set: West End Transitway - Phase 1 Layout: C-310 GRADING DETAIL - N VAN DORN STREET AT HOLMES RUN PARKWAY July 12, 2024 08:06:04am K:\NVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\GRADING PLAN VAN DORN.dwg

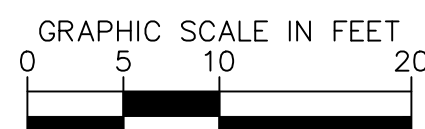
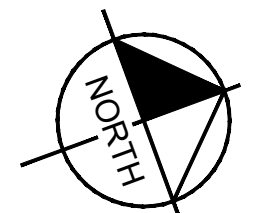


NOTES

- 1. 4" MOUNTABLE CURB REQ'D

LEGEND

- TC TOP OF CURB
- FL FLOW LINE
- EP EDGE OF PAVEMENT
- SW SIDEWALK OR RAMP
- ME MATCH EXISTING



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

ALEXANDRIA PROJECT NO.:	110104122
DATE OF PLAN ISSUANCE:	N/A
CONSULTANT PROJECT ID.:	N/A
DESIGNED BY:	EJD DATE: 4/5/24
DRAWN BY:	MAT DATE: 4/5/24
CHECKED BY:	EJD DATE: 4/5/24
APPROVED BY:	DATE:

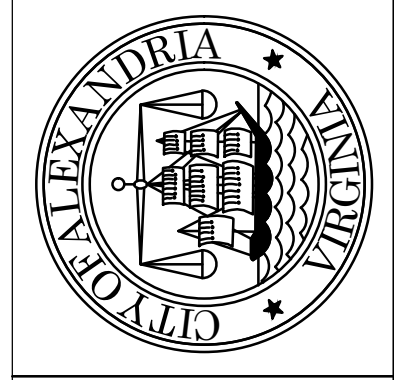
REVISIONS	DESCRIPTION
DATE	
BY	

GRADING DETAILS - N VAN DORN STREET AT HOLMES RUN PARKWAY

SHEET C-310

SCALE 1" = 10'

CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313



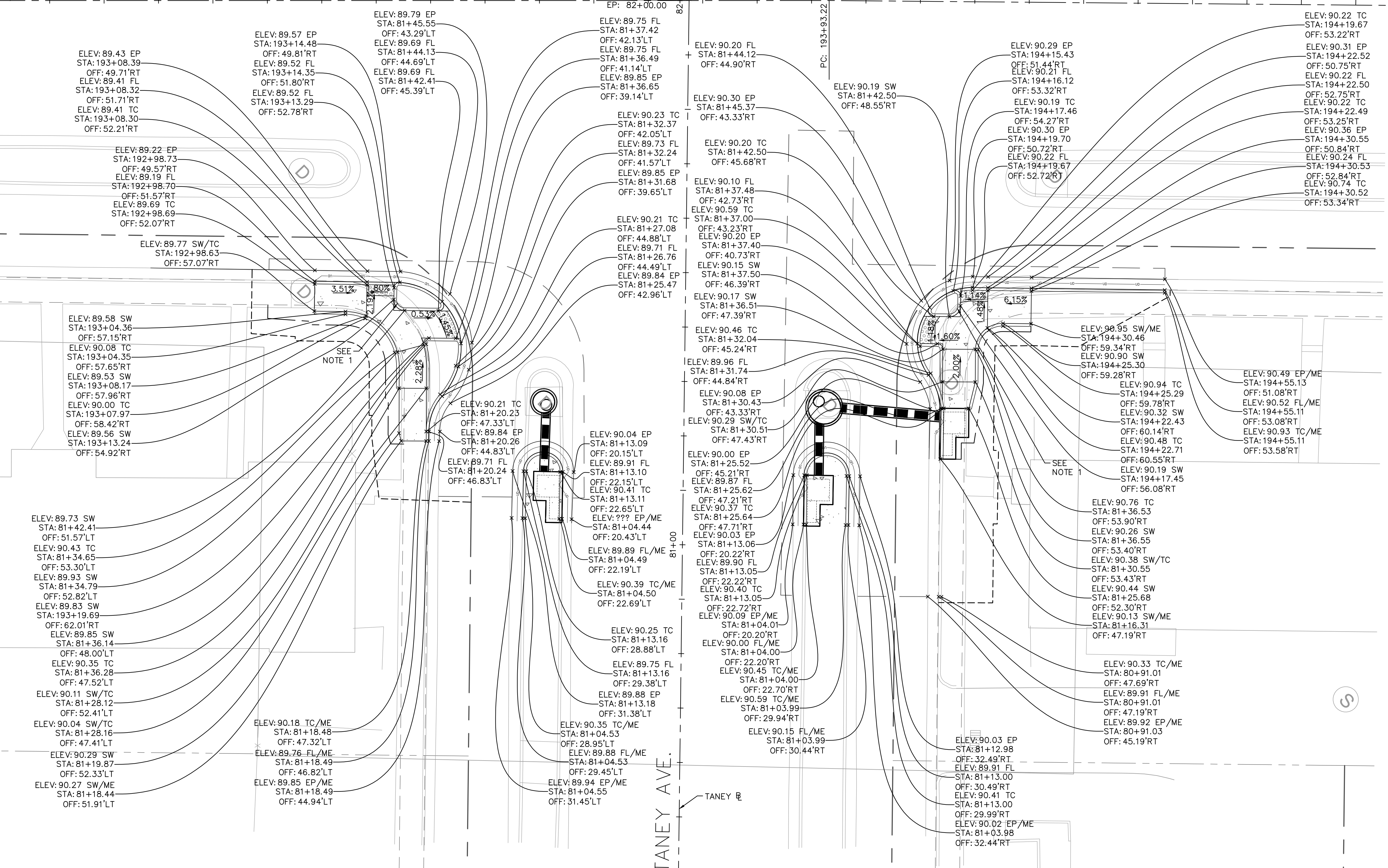
N VAN DORN ST.

VAN DORN

193+00

82+00

194+00



Plotted By: Waring, Megan Sheet Set: West End Transitway - Phase 1 Layout: C-311 GRADING DETAIL - N VAN DORN STREET AT TANEY AVENUE July 11, 2024 12:40:29pm K:\NVA_Transit\110104122_West_End_Transitway_Design\CADD\PlanSheets\GRADING_PLAN_VAN_DORN.dwg

90% DESIGN PHASE



CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

REVISIONS	DESCRIPTION
DATE	BY

ALEXANDRIA PROJECT NO.:	110104122
DATE OF PLAN ISSUANCE:	N/A
CONSULTANT PROJECT ID.:	N/A
DESIGNED BY:	MAT DATE: 4/5/24
DRAWN BY:	MAT DATE: 4/5/24
CHECKED BY:	EJD DATE: 4/5/24
APPROVED BY:	DATE:

WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

GRADING DETAILS - N
VAN DORN STREET AT
TANEY AVENUE

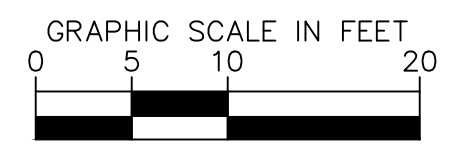
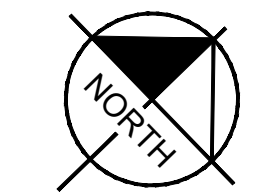
SHEET
C-311
SCALE 1" = 10'

NOTES

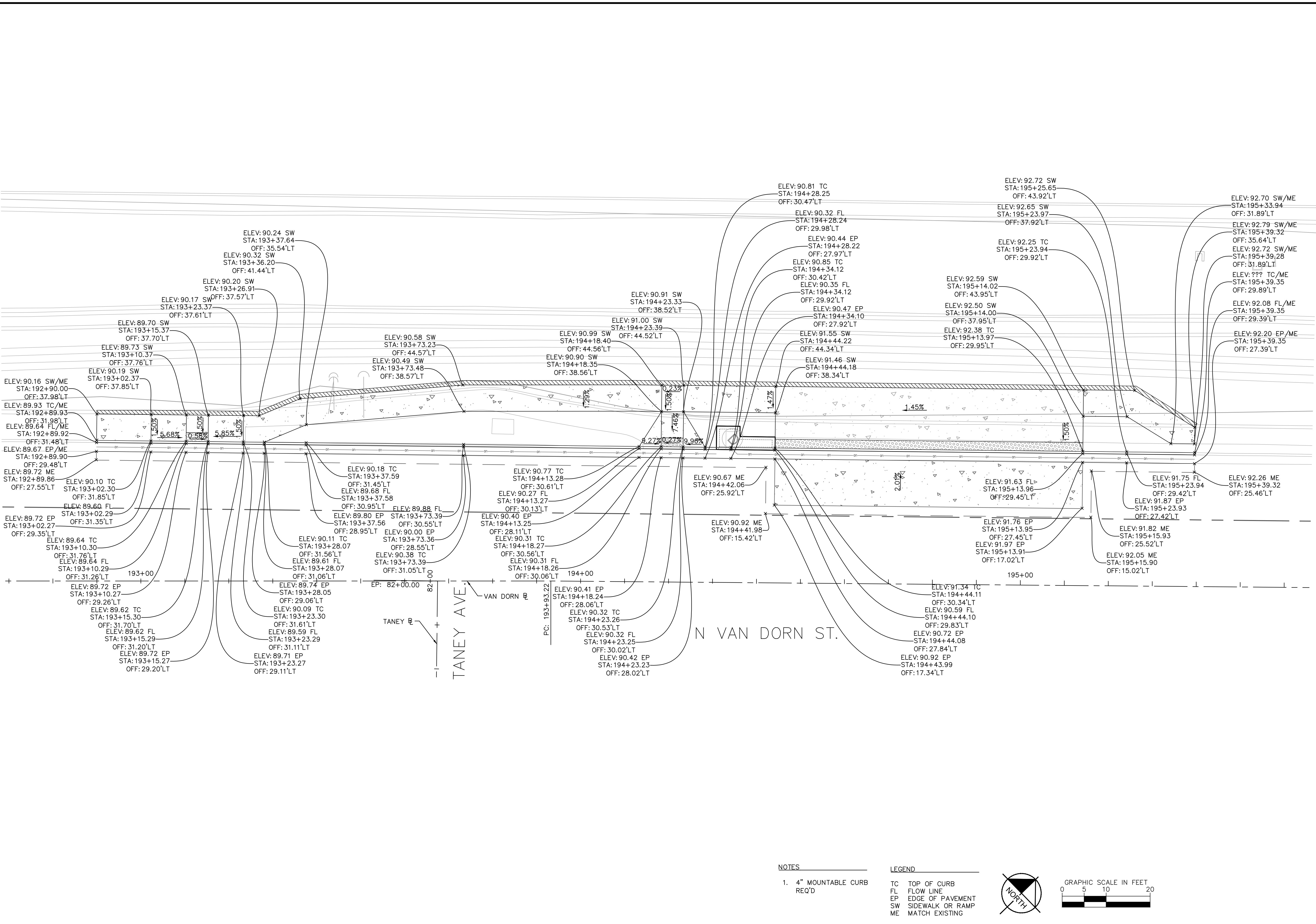
- 1. 4" MOUNTABLE CURB REQ'D

LEGEND

- TC TOP OF CURB
- FL FLOW LINE
- EP EDGE OF PAVEMENT
- SW SIDEWALK OR RAMP
- ME MATCH EXISTING

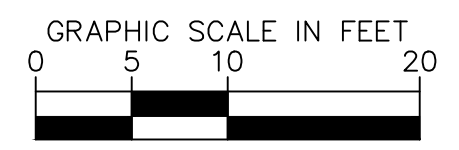
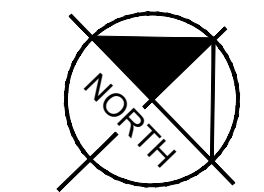


Plotted By: Waring, Megan Sheet Set: West End Transitway - Phase 1 Layout: C-312 GRADING DETAIL - N VAN DORN STREET AT TANNEY AVENUE July 11, 2024 12:40:34pm K:\NVA_Transitway\110104122_West_End_Transitway_Design\CADD\PlanSheets\GRADING PLAN VAN DORN.dwg



NOTES
 1. 4" MOUNTABLE CURB REQ'D

LEGEND
 TC TOP OF CURB
 FL FLOW LINE
 EP EDGE OF PAVEMENT
 SW SIDEWALK OR RAMP
 ME MATCH EXISTING



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS



CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

90% DESIGN PHASE

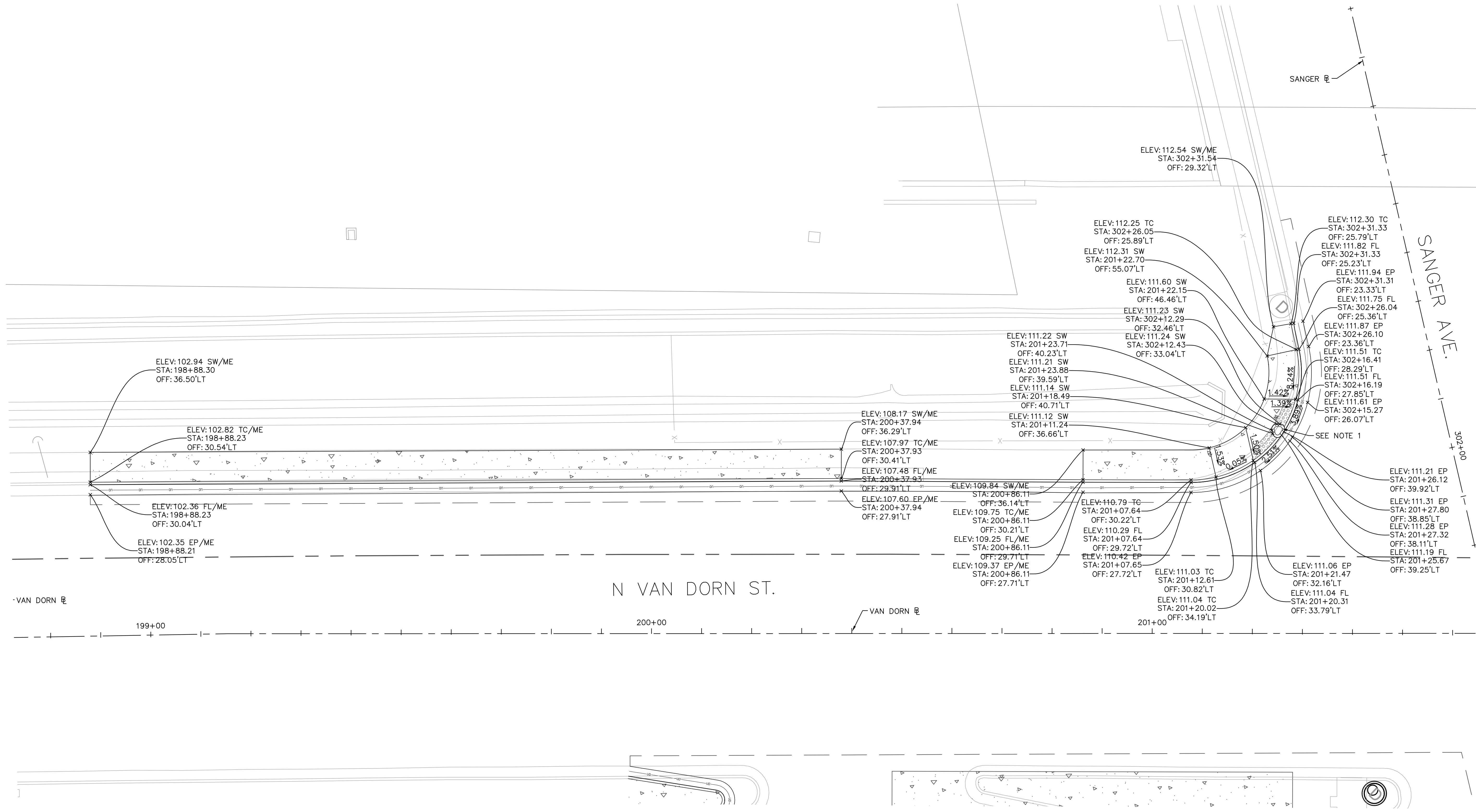
REVISIONS	DESCRIPTION
DATE	BY

ALEXANDRIA PROJECT NO.:	110104122
DATE OF PLAN ISSUANCE:	N/A
CONSULTANT PROJECT ID.:	N/A
DESIGNED BY:	MAT DATE: 4/5/24
DRAWN BY:	MAT DATE: 4/5/24
CHECKED BY:	EJD DATE: 4/5/24
APPROVED BY:	DATE:

GRADING DETAILS - N VAN DORN STREET AT TANNEY AVENUE

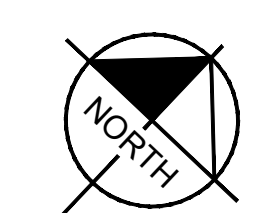
SHEET
 C-312
 SCALE 1" = 10'

Plotted By: Phillips, Mark Sheet Set: West End Transitway - Phase 1 Layout: C-313 GRADING DETAIL - N VAN DORN STREET AT SANGER AVENUE July 12, 2024 05:34:11pm K:\NVA_Transit\110104122_West_End_Transitway_Design\CADD\PlanSheets\GRADING PLAN VAN DORN.dwg

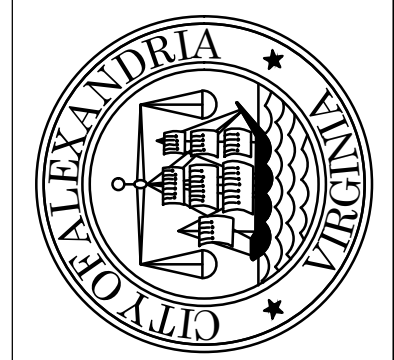


NOTES
 1. 4" MOUNTABLE CURB REQ'D

LEGEND
 TC TOP OF CURB
 FL FLOW LINE
 EP EDGE OF PAVEMENT
 SW SIDEWALK OR RAMP
 ME MATCH EXISTING



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS 90% DESIGN PHASE



CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

REVISIONS	DESCRIPTION

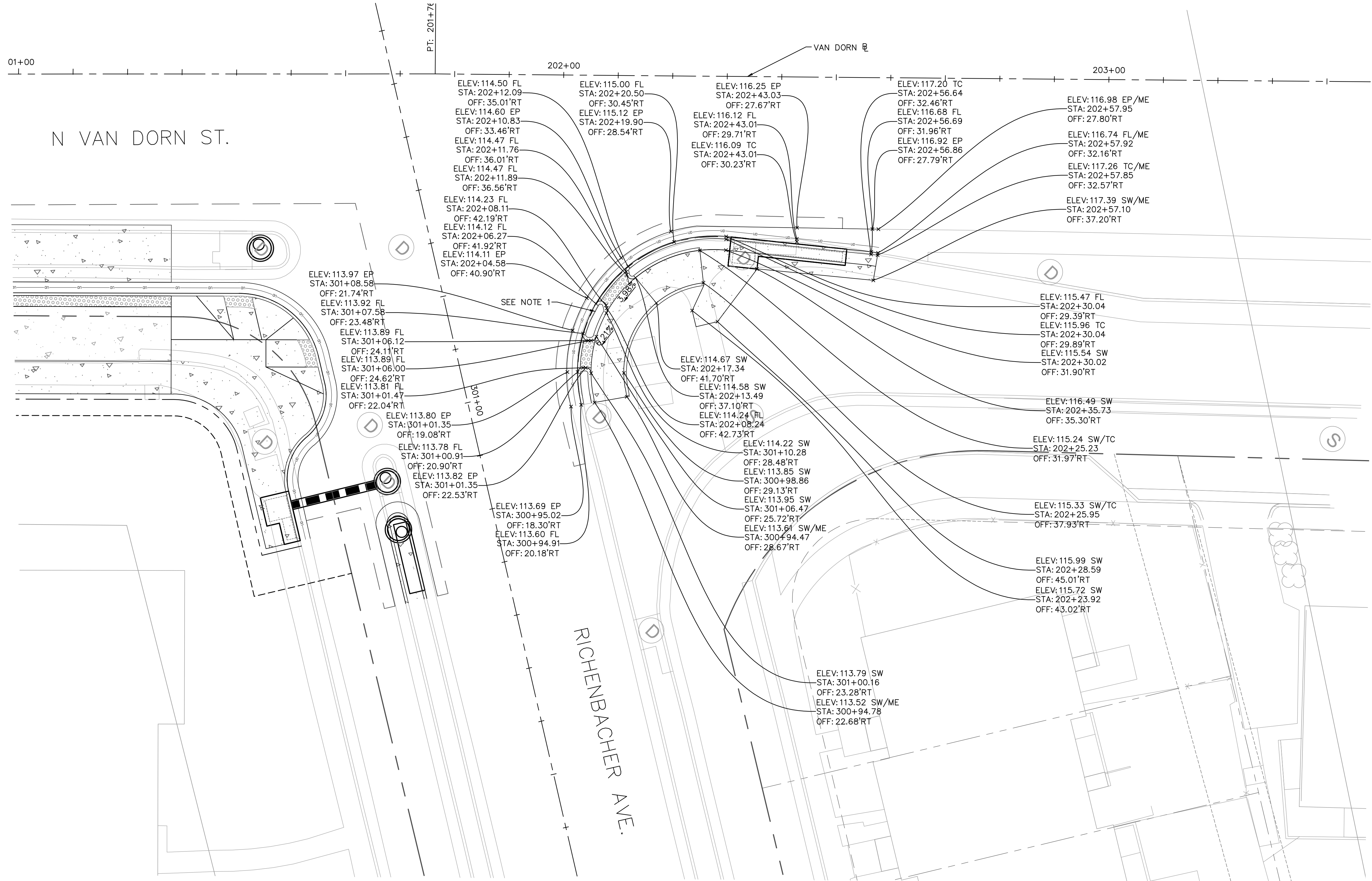
DATE	BY

ALEXANDRIA PROJECT NO.:	110104122
DATE OF PLAN ISSUANCE:	N/A
CONSULTANT PROJECT ID.:	N/A
DESIGNED BY:	MAT DATE: 4/5/24
DRAWN BY:	MAT DATE: 4/5/24
CHECKED BY:	EJD DATE: 4/5/24
APPROVED BY:	

GRADING DETAILS - N
 VAN DORN STREET AT
 SANGER AVENUE

SHEET
 C-313
 SCALE 1" = 10'

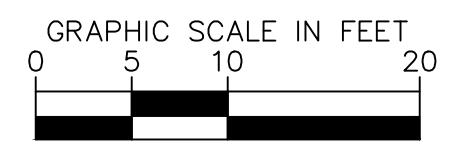
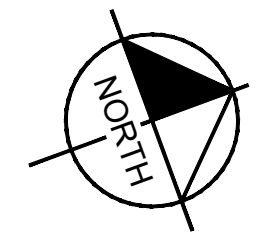
Plotted By: Waring, Megan Sheet Set: West End Transitway - Phase 1 Layout: C-315 GRADING DETAIL - N VAN DORN STREET AT RICHENBACHER AVENUE July 11, 2024 12:40:54pm K:\NVA_Transit\110104122_West_End_Transitway_Design\CADD\PlanSheets\GRADING PLAN VAN DORN.dwg



SEE NOTE 1

- NOTES**
- 1. 4" MOUNTABLE CURB REQ'D

- LEGEND**
- TC TOP OF CURB
 - FL FLOW LINE
 - EP EDGE OF PAVEMENT
 - SW SIDEWALK OR RAMP
 - ME MATCH EXISTING



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS 90% DESIGN PHASE



CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

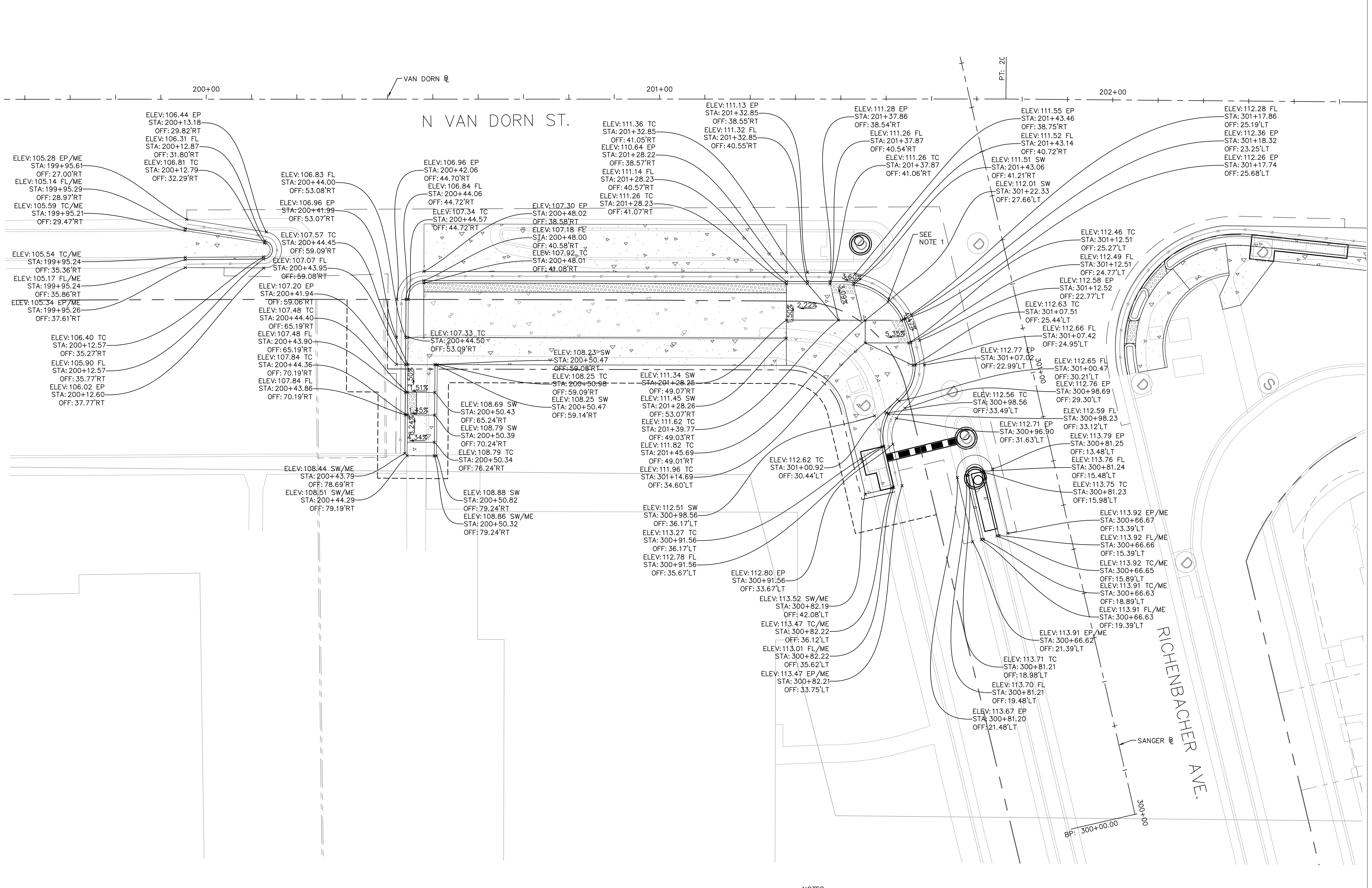
REVISIONS	DESCRIPTION
DATE	BY

ALEXANDRIA PROJECT NO.:	110104122
DATE OF PLAN ISSUANCE:	N/A
CONSULTANT PROJECT ID.:	N/A
DESIGNED BY:	MAT. DATE: 4/5/24
DRAWN BY:	MAT. DATE: 4/5/24
CHECKED BY:	EJD. DATE: 4/5/24
APPROVED BY:	DATE:

GRADING DETAILS - N VAN DORN STREET AT RICHENBACHER AVENUE

SHEET
 C-315
 SCALE 1" = 10'

Potted By: Phillips, Mark Sheet Set: West End Transitway - Phase 1 Layout: C-316 GRADING DETAIL - N VAN DORN STREET AT RICHENBACHER AVENUE July 12, 2024 05:38:23am K:\NVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\GRADING PLAN VAN DORN.dwg

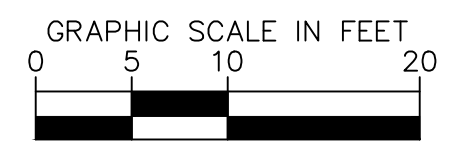
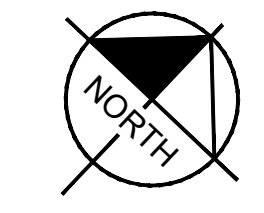


NOTES

- 1. 4" MOUNTABLE CURB REQ'D

LEGEND

- TC TOP OF CURB
- FL FLOW LINE
- EP EDGE OF PAVEMENT
- SW SIDEWALK OR RAMP
- ME MATCH EXISTING



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS **90% DESIGN PHASE**



CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

REVISIONS	DATE	BY	DESCRIPTION

ALEXANDRIA PROJECT NO.: 110104122

DATE OF PLAN ISSUANCE: N/A

CONSULTANT PROJECT ID: N/A

DESIGNED BY: MAT DATE: 4/5/24

DRAWN BY: MAT DATE: 4/5/24

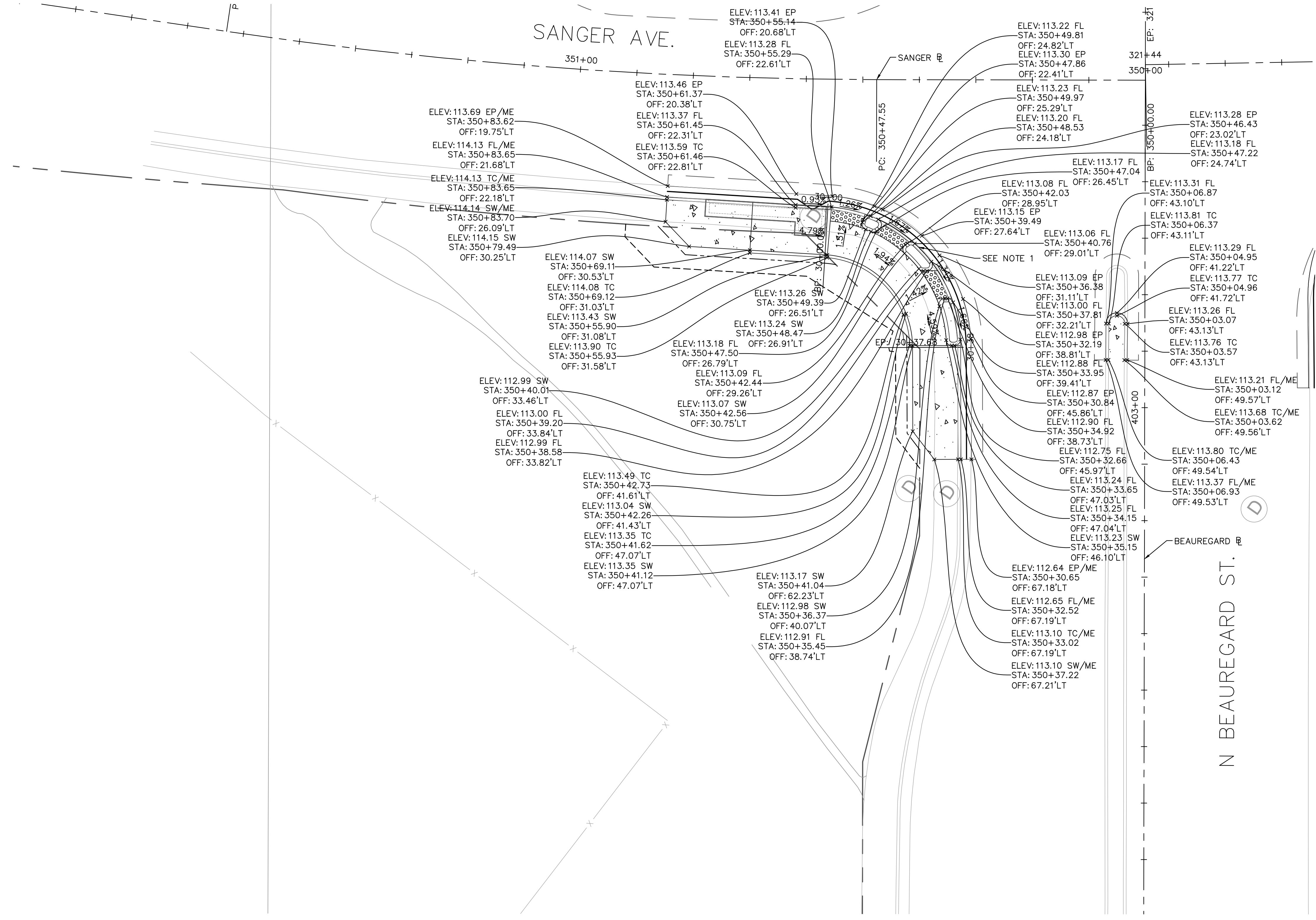
CHECKED BY: EJD DATE: 4/5/24

APPROVED BY: DATE:

GRADING DETAILS - N VAN DORN STREET AT RICHENBACHER AVENUE

SHEET
 C-316
 SCALE 1" = 10'

Plotted By: Waring, Megan Sheet Set: West End Transitway - Phase 1 Layout: C-318 GRADING DETAIL - N BEAUREGARD STREET AT SANGER AVENUE July 11, 2024 12:42:12pm K:\VVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\GRADING PLAN BEAUREGARD.dwg

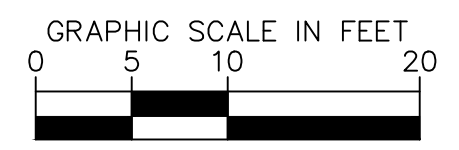
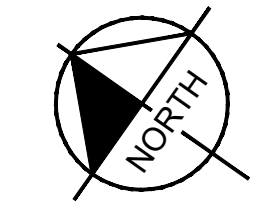


NOTES

- 1. 4" MOUNTABLE CURB REQ'D

LEGEND

- TC TOP OF CURB
- FL FLOW LINE
- EP EDGE OF PAVEMENT
- SW SIDEWALK OR RAMP
- ME MATCH EXISTING



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

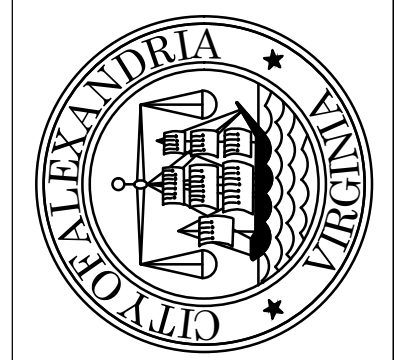
90% DESIGN PHASE

ALEXANDRIA PROJECT NO.: 110104122	
DATE OF PLAN ISSUANCE:	N/A
CONSULTANT PROJECT ID:	N/A
DESIGNED BY:	EJD DATE: 4/5/24
DRAWN BY:	MAT DATE: 4/5/24
CHECKED BY:	EJD DATE: 4/5/24
APPROVED BY:	DATE:

REVISIONS	DESCRIPTION

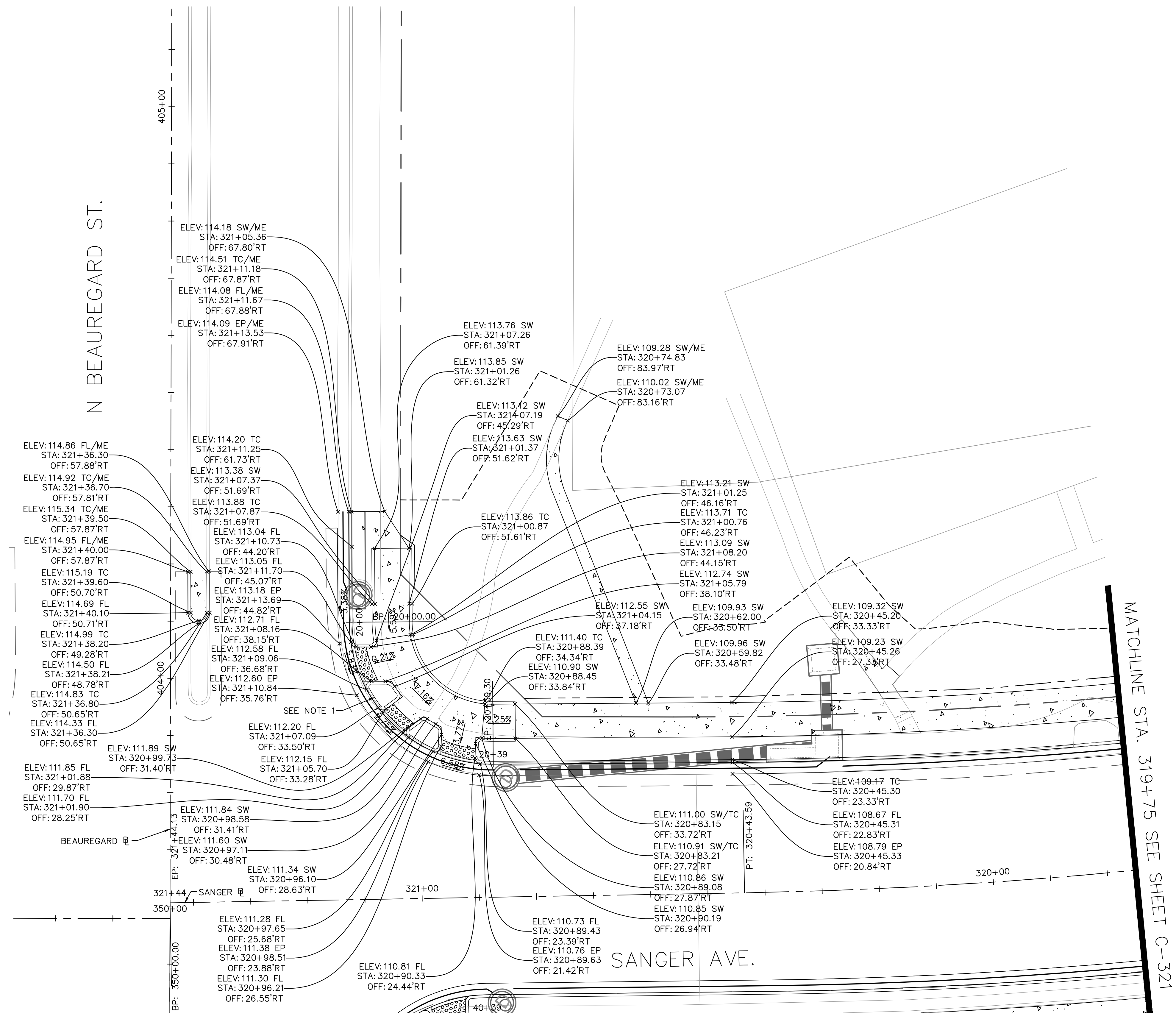
**GRADING DETAILS - N
 BEAUREGARD STREET AT
 SANGER AVENUE**

SHEET
 C-318
 SCALE 1" = 10'



CITY OF ALEXANDRIA, VIRGINIA
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 ALEXANDRIA, VIRGINIA 22313

Plotted By: Phillips, Mark Sheet Set: West End Transitway - Phase 1 Layout: C-319 GRADING DETAIL - N BEAUREGARD STREET AT SANGER AVENUE July 12, 2024 05:44:10am K:\NVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\GRADING PLAN BEAUREGARD.dwg

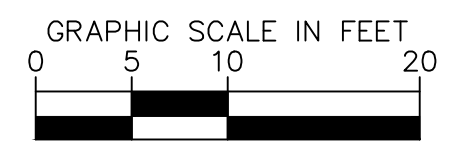
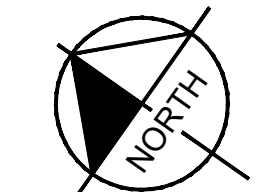


NOTES

- 1. 4" MOUNTABLE CURB REQ'D

LEGEND

- TC TOP OF CURB
- FL FLOW LINE
- EP EDGE OF PAVEMENT
- SW SIDEWALK OR RAMP
- ME MATCH EXISTING



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

ALEXANDRIA PROJECT NO.: 110104122	
DATE OF PLAN ISSUANCE:	N/A
CONSULTANT PROJECT ID:	N/A
DESIGNED BY:	EJD DATE: 4/5/24
DRAWN BY:	MAT DATE: 4/5/24
CHECKED BY:	EJD DATE: 4/5/24
APPROVED BY:	DATE:

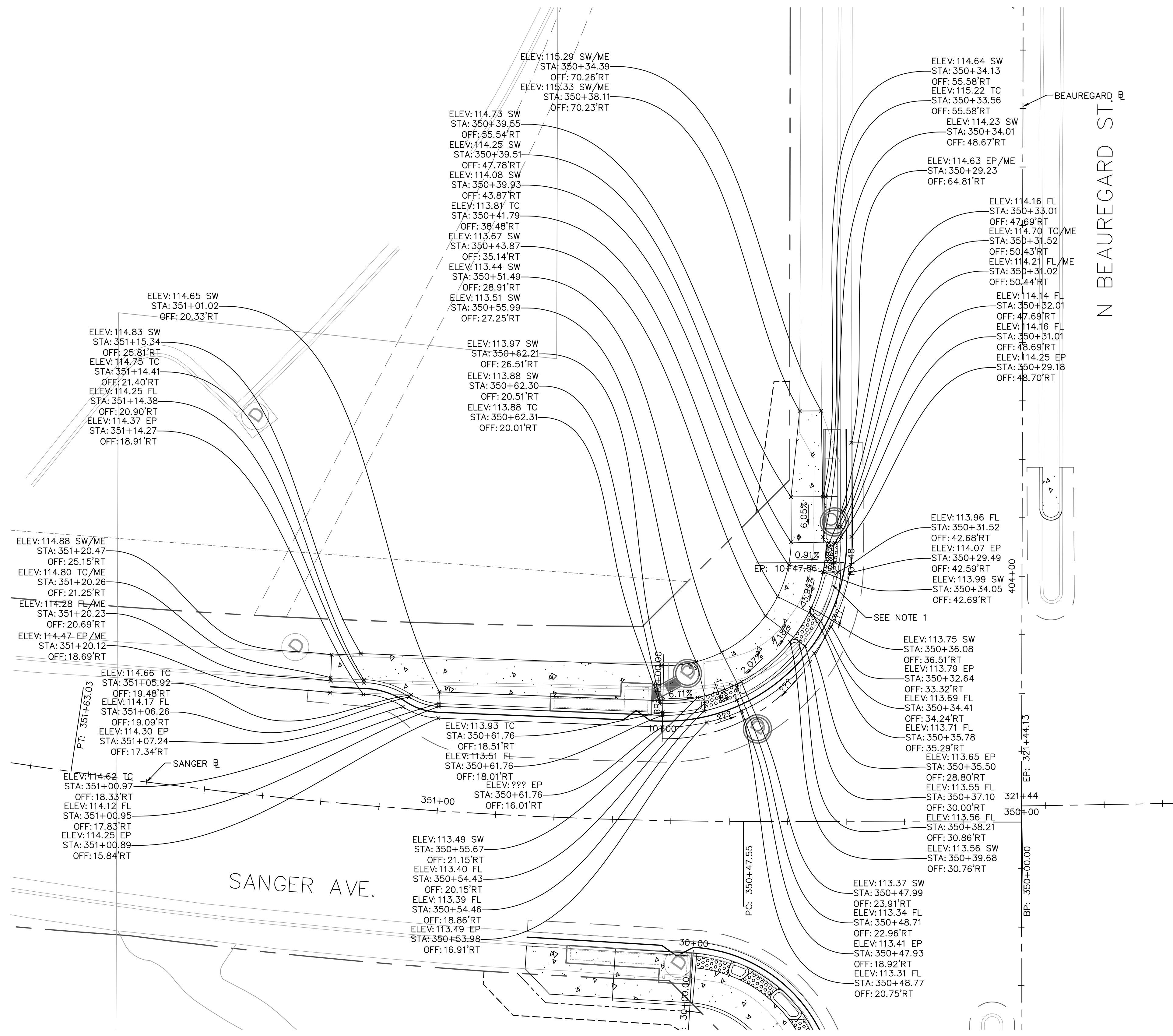
REVISIONS	DESCRIPTION

**GRADING DETAILS - N
BEAUREGARD STREET AT
SANGER AVENUE**

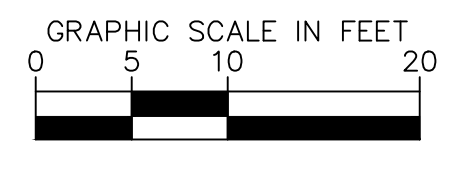
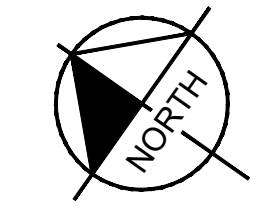
SHEET
C-319
SCALE 1" = 10'



CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313



- NOTES**
1. 4" MOUNTABLE CURB REQ'D
- LEGEND**
- TC TOP OF CURB
 - FL FLOW LINE
 - EP EDGE OF PAVEMENT
 - SW SIDEWALK OR RAMP
 - ME MATCH EXISTING



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS



CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

REVISIONS	DATE	DESCRIPTION

ALEXANDRIA PROJECT NO.:	110104122
DATE OF PLAN ISSUANCE:	N/A
CONSULTANT PROJECT ID.:	N/A
DESIGNED BY:	EJD DATE: 4/5/24
DRAWN BY:	MAT DATE: 4/5/24
CHECKED BY:	EJD DATE: 4/5/24
APPROVED BY:	

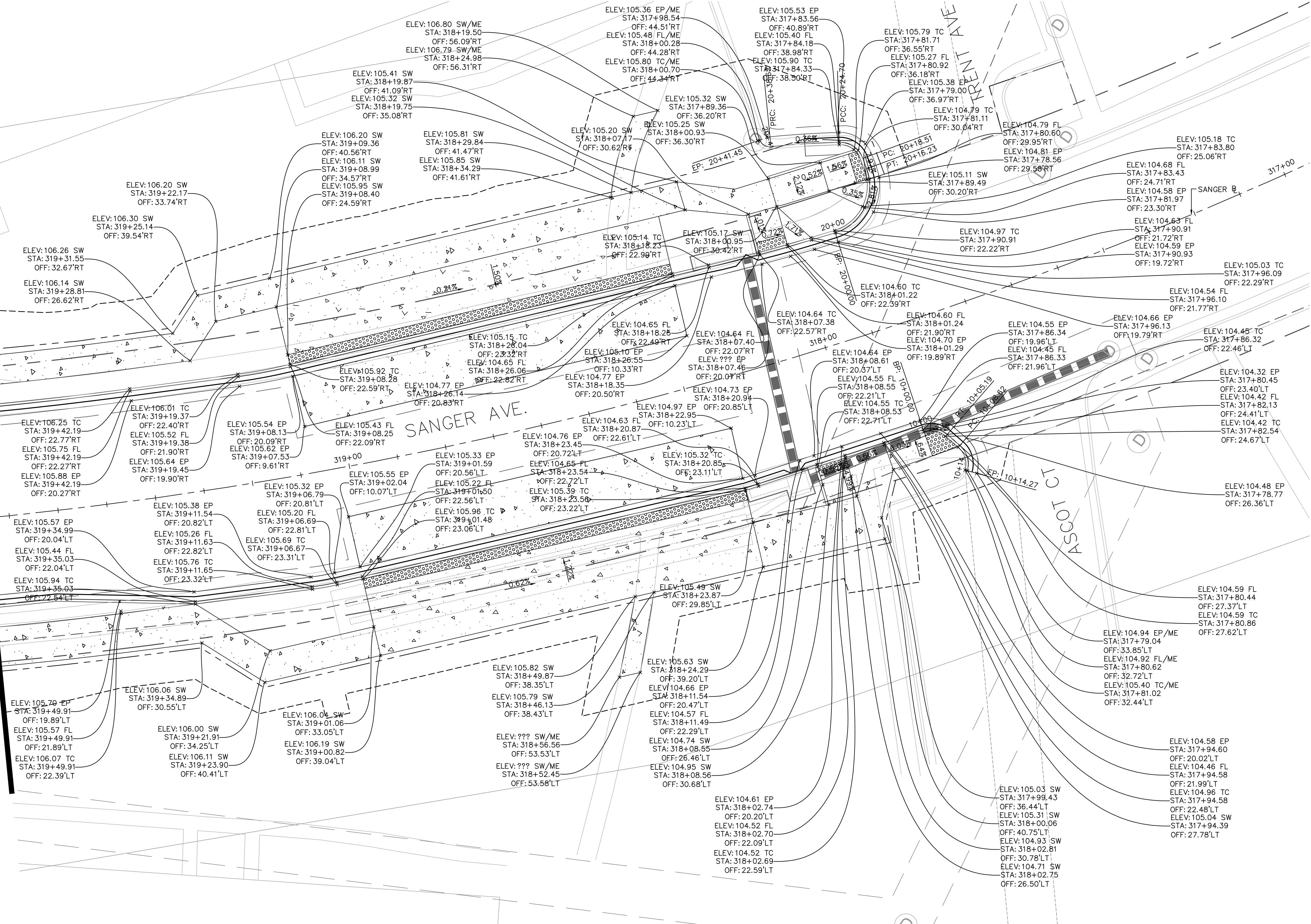
GRADING DETAILS - N
BEAUREGARD STREET AT
SANGER AVENUE

SHEET
 C-320
 SCALE 1" = 10'

90% DESIGN PHASE

Plotted By: Phillips, Mark Sheet Set: West End Transitway - Phase 1 Layout: C-321 GRADING DETAIL - N BEAUREGARD STREET AT ASCOT & TRENT July 12, 2024 05:46:12am K:\NVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\GRADING PLAN BEAUREGARD.dwg

MATCHLINE STA. 319+75 SEE SHEETS C-317 AND C-319

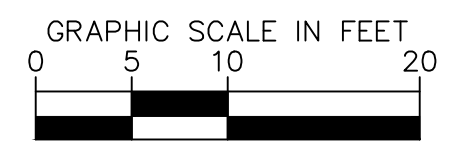
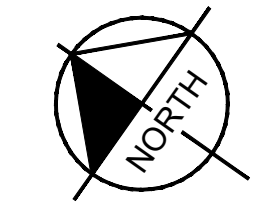


NOTES

1. 4" MOUNTABLE CURB REQ'D

LEGEND

TC TOP OF CURB
FL FLOW LINE
EP EDGE OF PAVEMENT
SW SIDEWALK OR RAMP
ME MATCH EXISTING



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

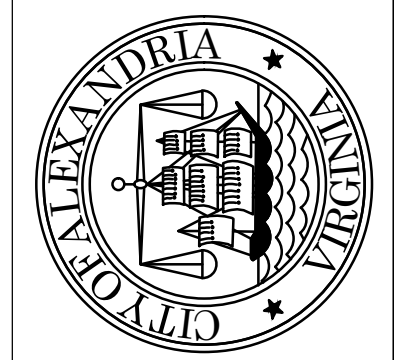
90% DESIGN PHASE

REVISIONS	DATE	DESCRIPTION

ALEXANDRIA PROJECT NO.: 110104122
 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: EJD DATE: 4/5/24
 DRAWN BY: MAT DATE: 4/5/24
 CHECKED BY: EJD DATE: 4/5/24
 APPROVED BY: _____ DATE: _____

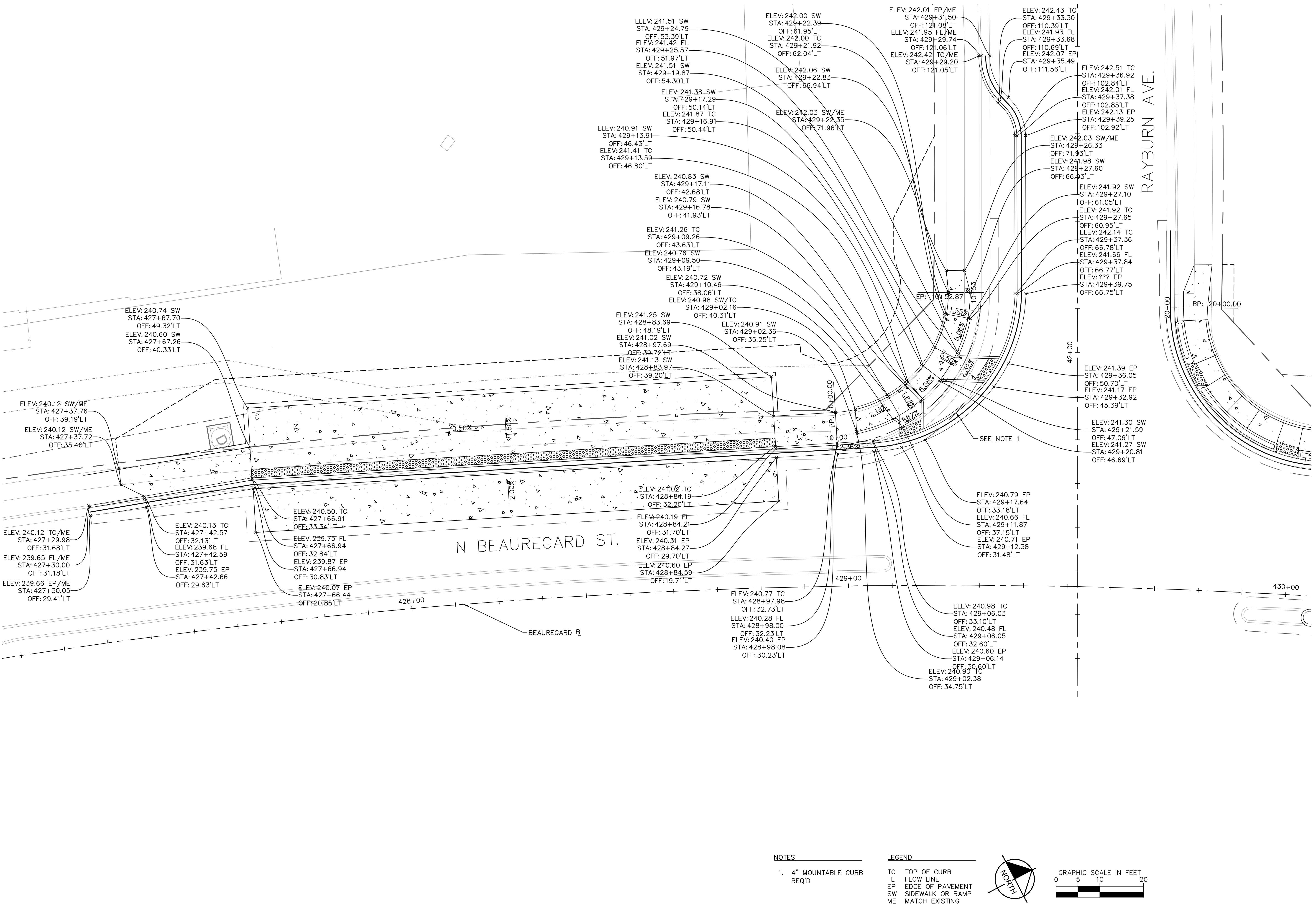
GRADING DETAILS - N BEAUREGARD STREET AT ASCOT & TRENT

SHEET C-321
 SCALE 1" = 10'



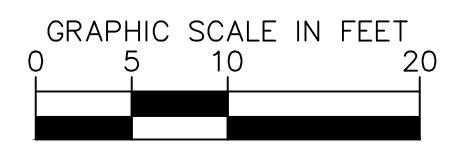
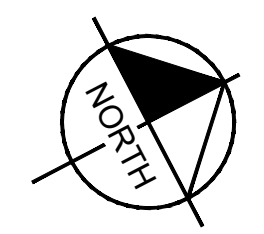
CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

Plotted By: Waring, Megan Sheet Set: West End Transitway - Phase 1 Layout: C-322 GRADING DETAIL - N BEAUREGARD STREET AT RAYBURN AVENUE July 11, 2024 12:42:37pm K:\NVA_Transit\110104122_West_End_Transitway_Design\CADD\PlanSheets\GRADING PLAN BEAUREGARD.dwg

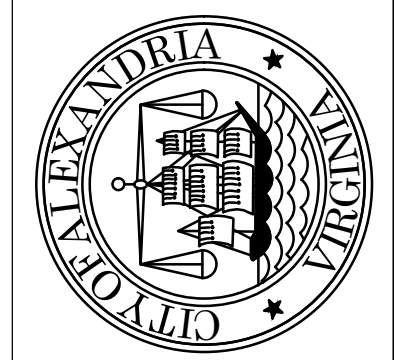


NOTES
 1. 4" MOUNTABLE CURB REQ'D

LEGEND
 TC TOP OF CURB
 FL FLOW LINE
 EP EDGE OF PAVEMENT
 SW SIDEWALK OR RAMP
 ME MATCH EXISTING



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS



CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

REVISIONS	DESCRIPTION
DATE	BY

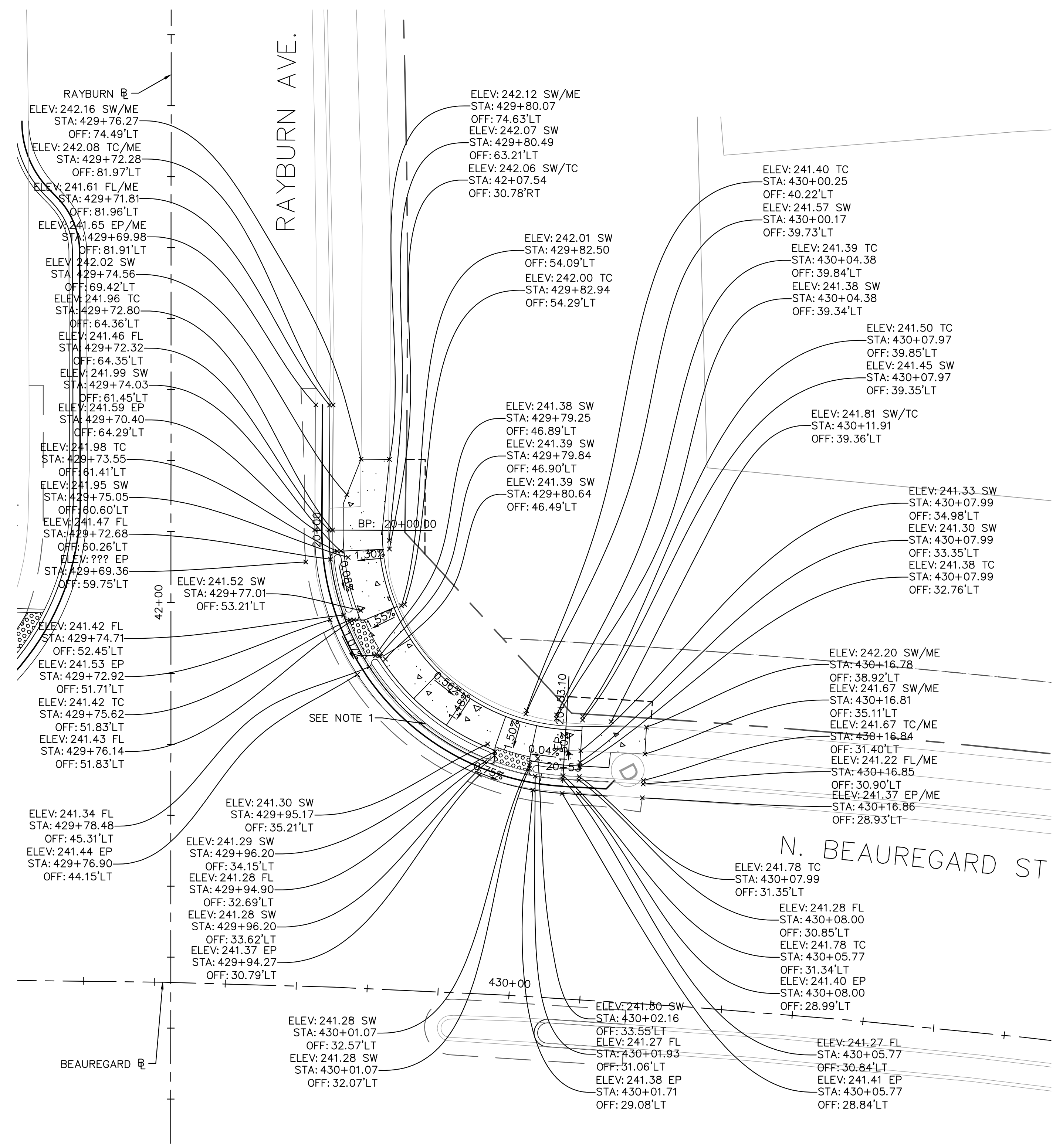
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CONSULTANT PROJECT ID: N/A	DESIGNED BY: EJD DATE: 4/5/24
	DRAWN BY: MAT DATE: 4/5/24
	CHECKED BY: EJD DATE: 4/5/24
	APPROVED BY: _____ DATE: _____

GRADING DETAILS - N BEAUREGARD STREET AT RAYBURN AVENUE

 SHEET C-322
 SCALE 1" = 10'

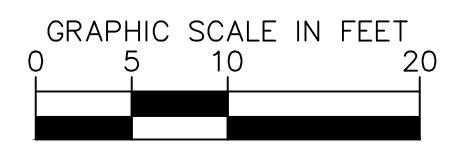
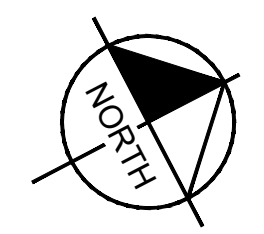
90% DESIGN PHASE

Plotted By: Waring, Megan Sheet Set: West End Transitway - Phase 1 Layout: C-323 GRADING DETAIL - N BEAUREGARD STREET AT RAYBURN AVENUE July 11, 2024 12:42:42pm K:\NVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\GRADING PLAN BEAUREGARD.dwg



NOTES
 1. 4" MOUNTABLE CURB REQ'D

LEGEND
 TC TOP OF CURB
 FL FLOW LINE
 EP EDGE OF PAVEMENT
 SW SIDEWALK OR RAMP
 ME MATCH EXISTING



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

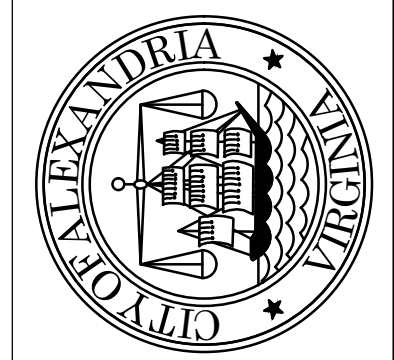
**GRADING DETAILS - N
 BEAUREGARD STREET AT
 RAYBURN AVENUE**

SHEET
 C-323
 SCALE 1" = 10'

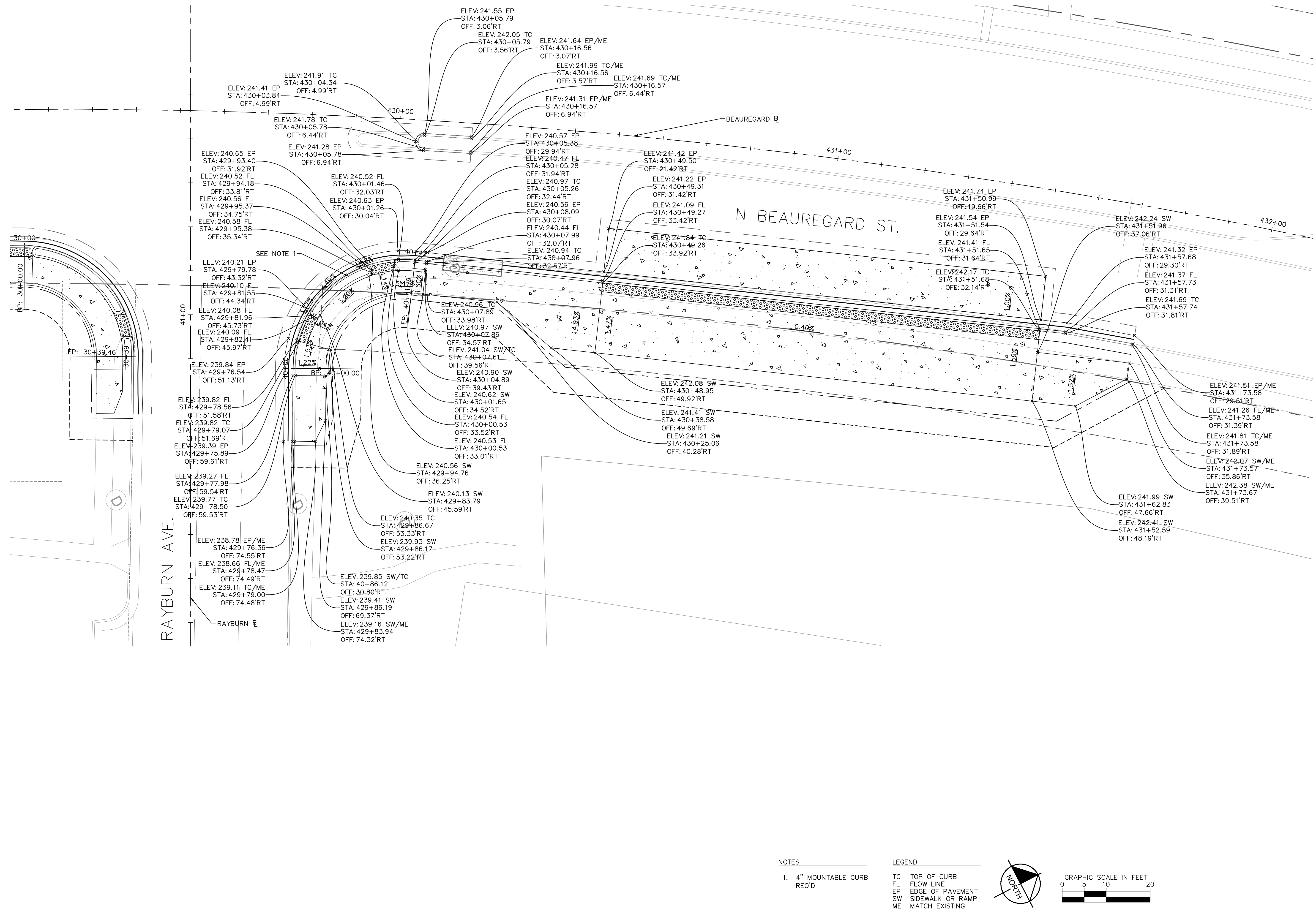
ALEXANDRIA PROJECT NO.:	110104122
DATE OF PLAN ISSUANCE:	N/A
CONSULTANT PROJECT ID.:	N/A
DESIGNED BY:	MAT. DATE: 4/5/24
DRAWN BY:	MAT. DATE: 4/5/24
CHECKED BY:	EJD. DATE: 4/5/24
APPROVED BY:	DATE:

REVISIONS	DATE	DESCRIPTION

CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313



Plotted By: Waring, Megan Sheet Set: West End Transitway - Phase 1 Layout: C-324 GRADING DETAIL - N BEAUREGARD STREET AT RAYBURN AVENUE July 11, 2024 12:42:49pm K:\NVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\GRADING PLAN BEAUREGARD.dwg

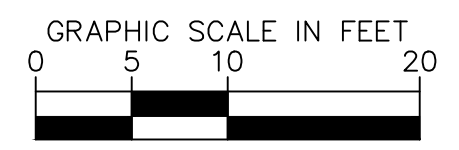
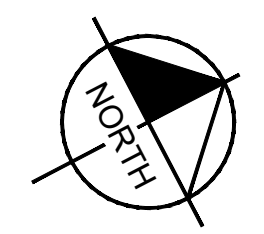


NOTES

1. 4" MOUNTABLE CURB REQ'D

LEGEND

TC TOP OF CURB
 FL FLOW LINE
 EP EDGE OF PAVEMENT
 SW SIDEWALK OR RAMP
 ME MATCH EXISTING



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS
90% DESIGN PHASE



CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

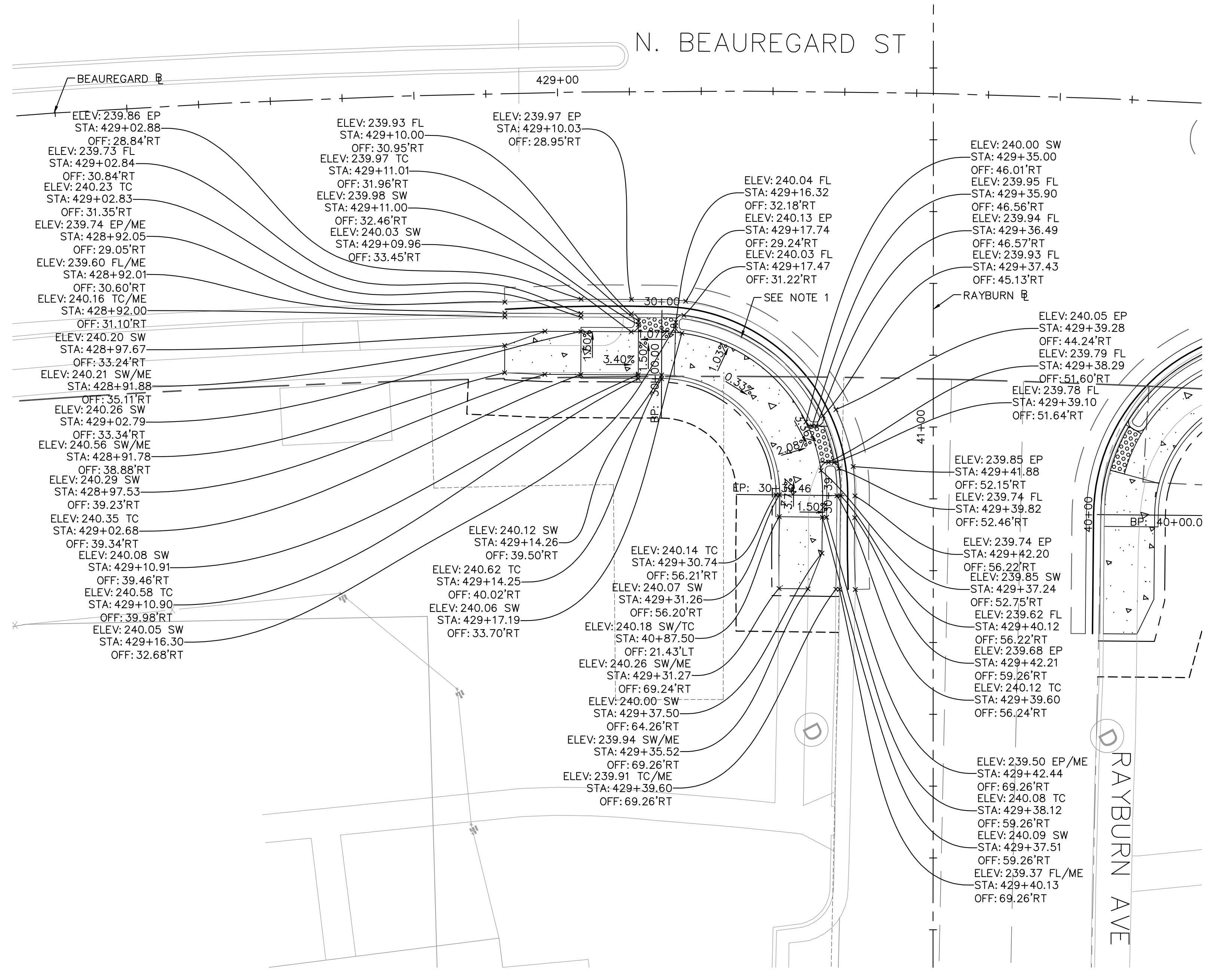
REVISIONS	DESCRIPTION
DATE	BY

ALEXANDRIA PROJECT NO. 110104122	DATE OF PLAN ISSUANCE: N/A
CONSULTANT PROJECT ID: N/A	DESIGNED BY: EJD DATE: 4/5/24
	DRAWN BY: MAT DATE: 4/5/24
	CHECKED BY: EJD DATE: 4/5/24
	APPROVED BY: _____ DATE: _____

**GRADING DETAILS - N
 BEAUREGARD STREET AT
 RAYBURN AVENUE**

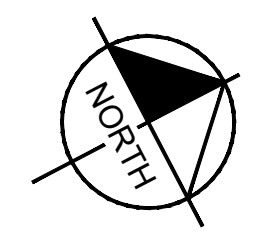
SHEET
 C-324
 SCALE 1" = 10'

Plotted By: Waring, Megan Sheet Set: West End Transitway - Phase 1 Layout: C-325 GRADING DETAIL - N BEAUREGARD STREET AT RAYBURN AVENUE July 11, 2024 12:42:56pm K:\NVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\GRADING PLAN BEAUREGARD.dwg



NOTES
 1. 4" MOUNTABLE CURB REQ'D

LEGEND
 TC TOP OF CURB
 FL FLOW LINE
 EP EDGE OF PAVEMENT
 SW SIDEWALK OR RAMP
 ME MATCH EXISTING



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE



CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

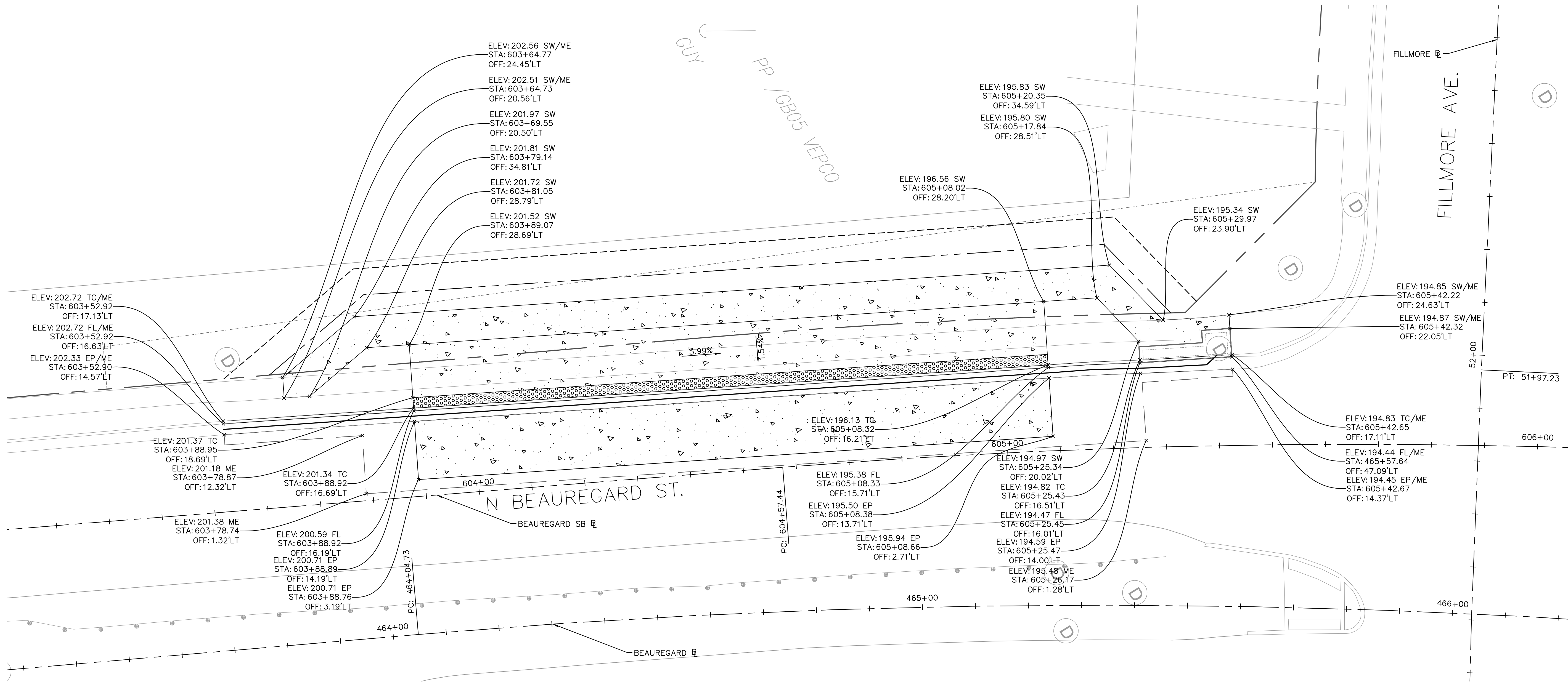
REVISIONS	DATE	DESCRIPTION

ALEXANDRIA PROJECT NO.: 110104122
 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: EJD DATE: 4/5/24
 DRAWN BY: MAT DATE: 4/5/24
 CHECKED BY: EJD DATE: 4/5/24
 APPROVED BY: _____ DATE: _____

GRADING DETAILS - N BEAUREGARD STREET AT RAYBURN AVENUE

SHEET C-325
 SCALE 1" = 10'

Plotted By: Phillips, Mark Sheet Set: West End Transitway - Phase 1 Layout: C-326 GRADING DETAIL - N BEAUREGARD STREET AT FILLMORE AVENUE July 12, 2024 05:47:11am K:\NVA_Transit\10104122_West_End_Transitway_Design\CADD\PlanSheets\GRADING PLAN BEAUREGARD.dwg

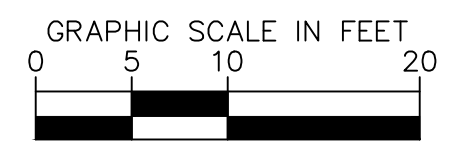
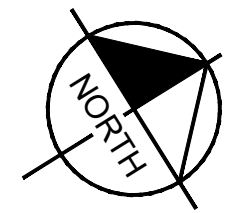


NOTES

- 1. 4" MOUNTABLE CURB REQ'D

LEGEND

- TC TOP OF CURB
- FL FLOW LINE
- EP EDGE OF PAVEMENT
- SW SIDEWALK OR RAMP
- ME MATCH EXISTING



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

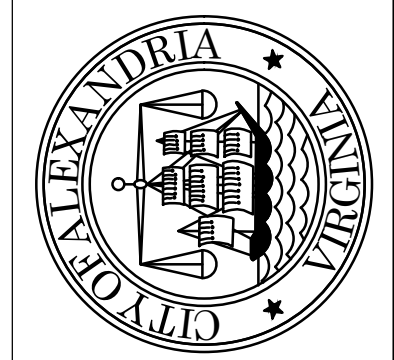
**GRADING DETAILS - N
 BEAUREGARD STREET AT
 FILLMORE AVENUE**

SHEET
 C-326
 SCALE 1" = 10'

ALEXANDRIA PROJECT NO.: 110104122	DATE OF PLAN ISSUANCE: N/A
CONSULTANT PROJECT ID: N/A	DESIGNED BY: EJD DATE: 4/5/24
	DRAWN BY: MAT DATE: 4/5/24
	CHECKED BY: EJD DATE: 4/5/24
	APPROVED BY: _____ DATE: _____

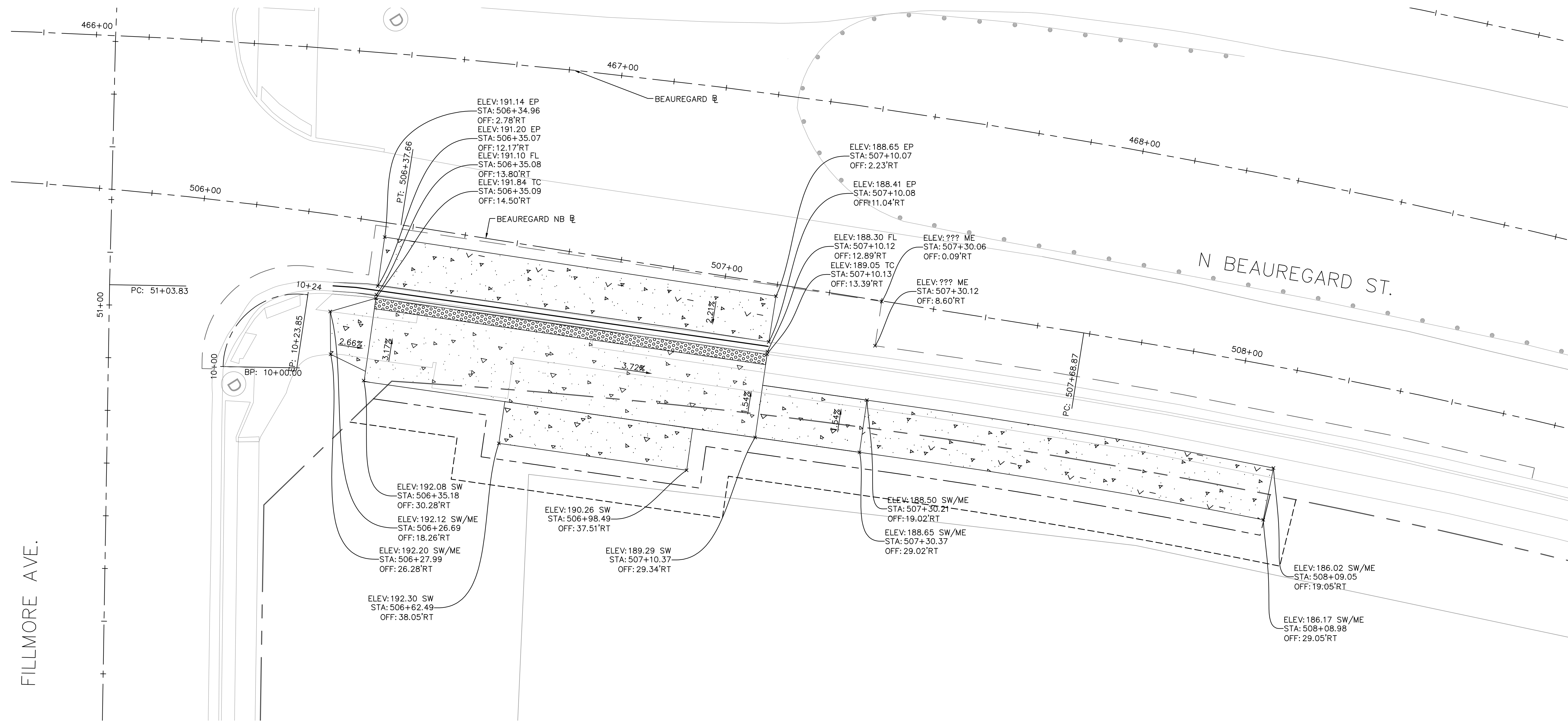
REVISIONS	DESCRIPTION
DATE	BY

CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313



Plotted By: Waring, Megan Sheet Set: West End Transitway - Phase 1 Layout: C-327 GRADING DETAIL - N BEAUREGARD STREET AT FILLMORE AVENUE July 12, 2024 08:44:19am K:\NVA_Transit\110104122_West_End_Transitway_Design\CADD\PlanSheets\GRADING PLAN BEAUREGARD.dwg

FILLMORE AVE.

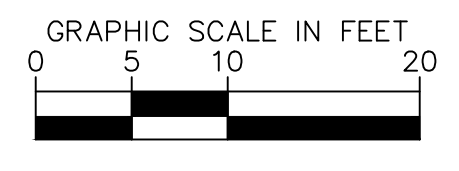
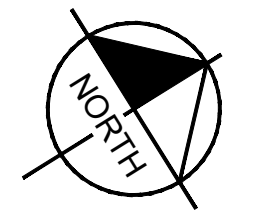


NOTES

- 1. 4" MOUNTABLE CURB REQ'D

LEGEND

- TC TOP OF CURB
- FL FLOW LINE
- EP EDGE OF PAVEMENT
- SW SIDEWALK OR RAMP
- ME MATCH EXISTING



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

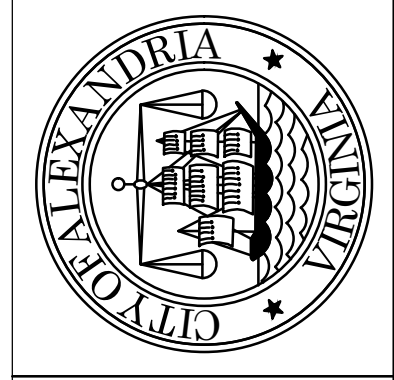
GRADING DETAILS - N
 BEAUREGARD STREET AT
 FILLMORE AVENUE

SHEET
 C-327
 SCALE 1" = 10'

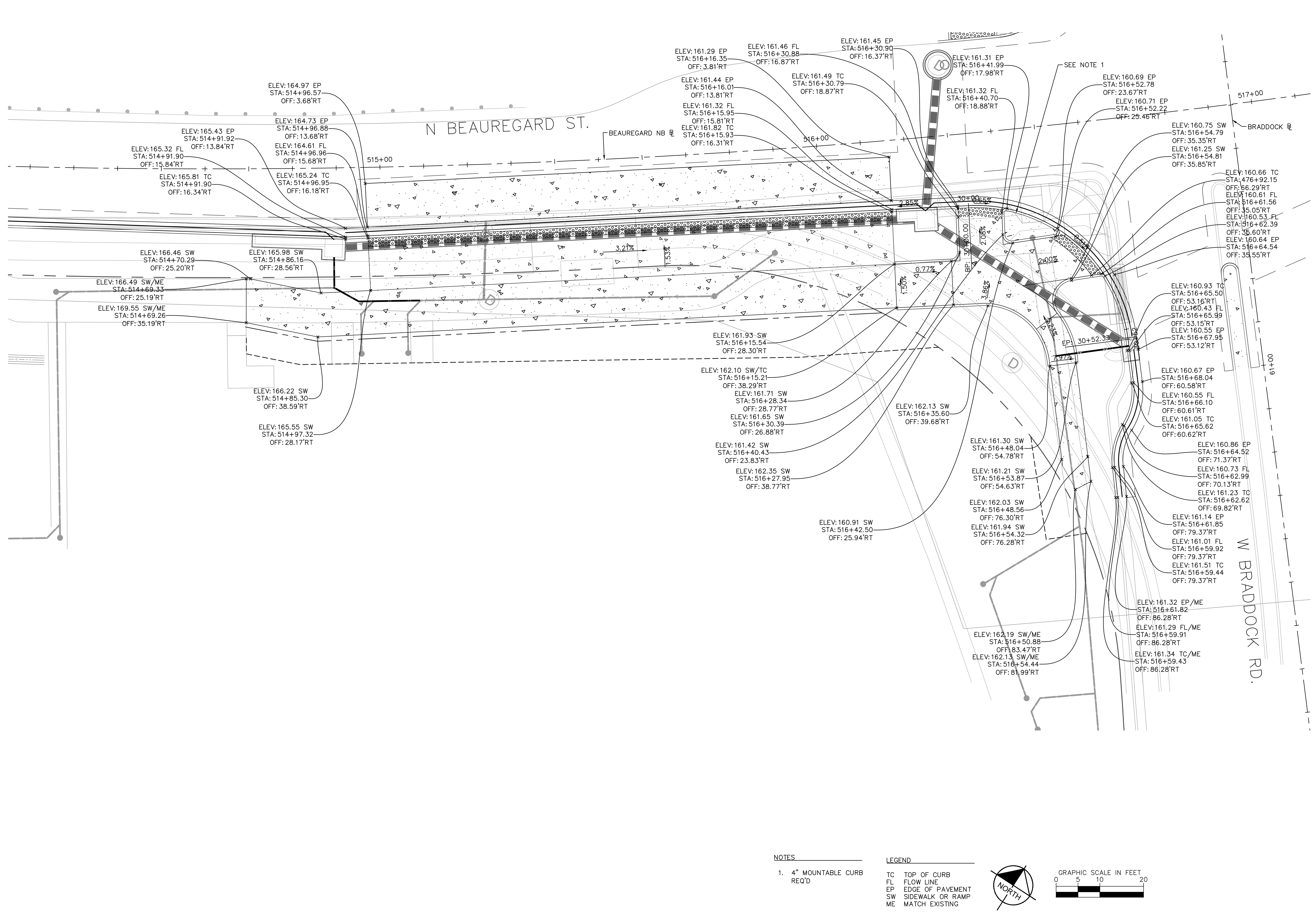
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DATE OF PLAN ISSUANCE:	N/A
CONSULTANT PROJECT ID.:	N/A
DESIGNED BY:	EJD DATE: 4/5/24
DRAWN BY:	MAT DATE: 4/5/24
CHECKED BY:	EJD DATE: 4/5/24
APPROVED BY:	DATE:

REVISIONS	DESCRIPTION
DATE	BY

CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313



Plotted By: Grovitt, Sydney Sheet Set: West End Transitway - Phase 1 Layout: C-328 GRADING DETAIL - N BEAUREGARD STREET AT W BRADDOCK ROAD September 03, 2024 05:33:03pm K:\NVA_Traffic\110104122_West End Transitway Design\CADD\PlanSheets\GRADING PLAN BEAUREGARD.dwg

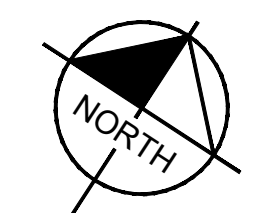


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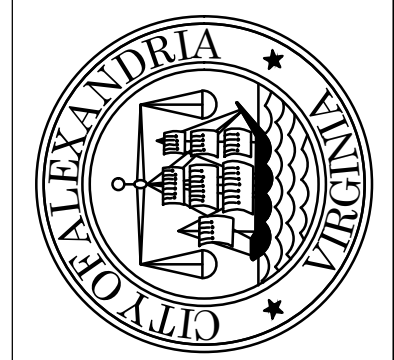
1. 4" MOUNTABLE CURB REQ'D

LEGEND

TC TOP OF CURB
 FL FLOW LINE
 EP EDGE OF PAVEMENT
 SW SIDEWALK OR RAMP
 ME MATCH EXISTING



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS



CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

REVISIONS	DESCRIPTION
DATE	BY

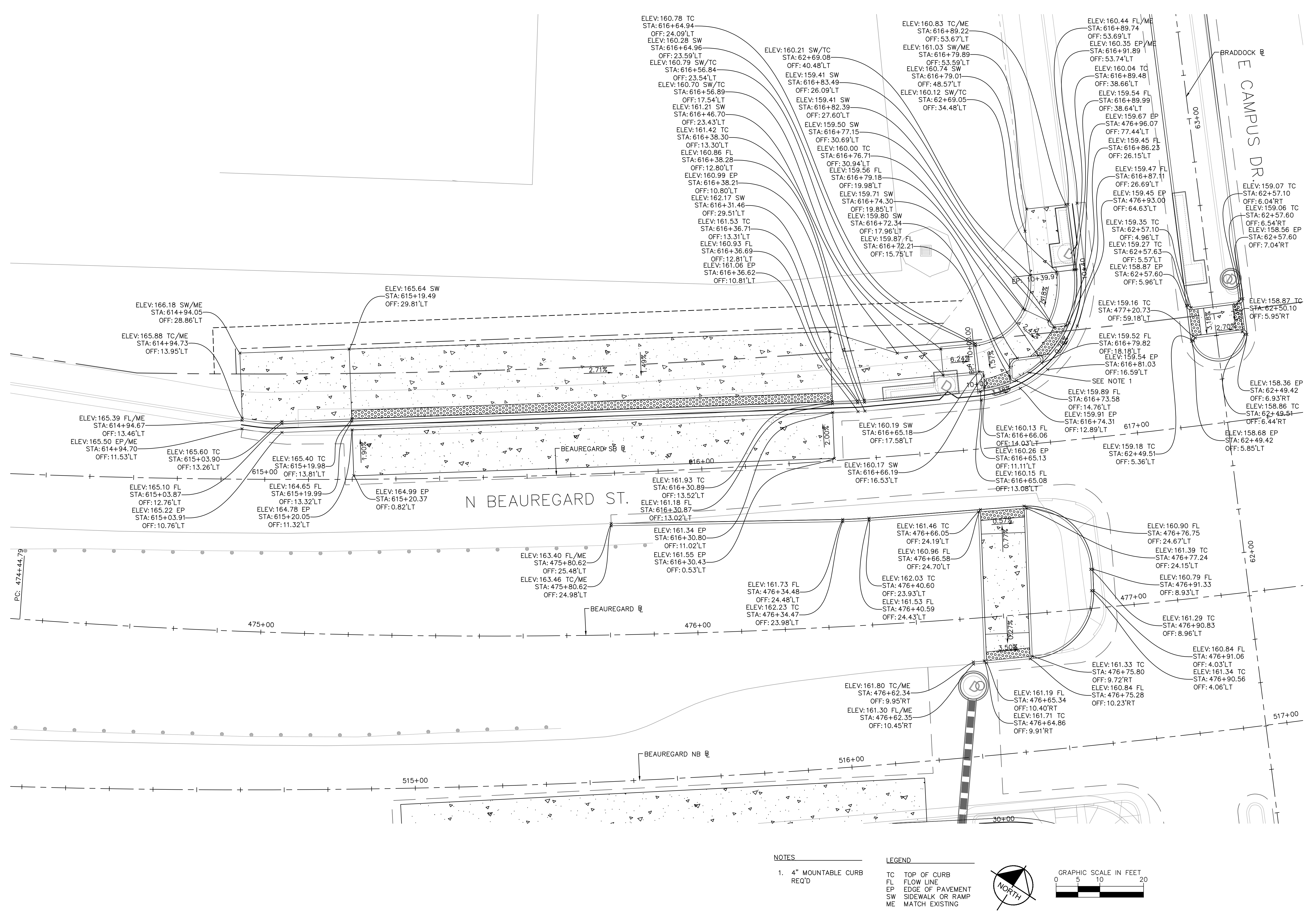
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DATE OF PLAN ISSUANCE:	N/A
CONSULTANT PROJECT ID.:	N/A
DESIGNED BY:	EJD DATE: 4/5/24
DRAWN BY:	MAT DATE: 4/5/24
CHECKED BY:	EJD DATE: 4/5/24
APPROVED BY:	DATE:

GRADING DETAILS - N BEAUREGARD STREET AT W BRADDOCK ROAD

SHEET C-328
 SCALE 1" = 10'

90% DESIGN PHASE

Plotted By: Grovitt, Sydney Sheet Set: West End Transitway - Phase 1 Layout: C-329 GRADING DETAIL - N BEAUREGARD STREET AT W BRADDOCK ROAD September 03, 2024 05:33:17pm K:\NVA_Transit\110104122_West_End_Transitway_Design\CADD\PlanSheets\GRADING_PLAN_BEAUREGARD.dwg

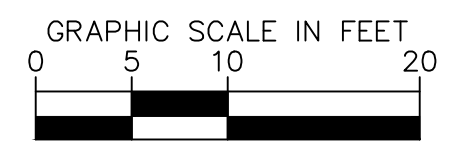
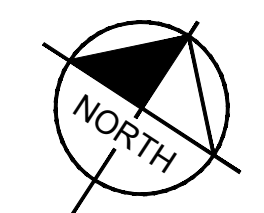


NOTES

- 1. 4" MOUNTABLE CURB REQ'D

LEGEND

- TC TOP OF CURB
- FL FLOW LINE
- EP EDGE OF PAVEMENT
- SW SIDEWALK OR RAMP
- ME MATCH EXISTING



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS



CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

REVISIONS	DESCRIPTION
DATE	BY

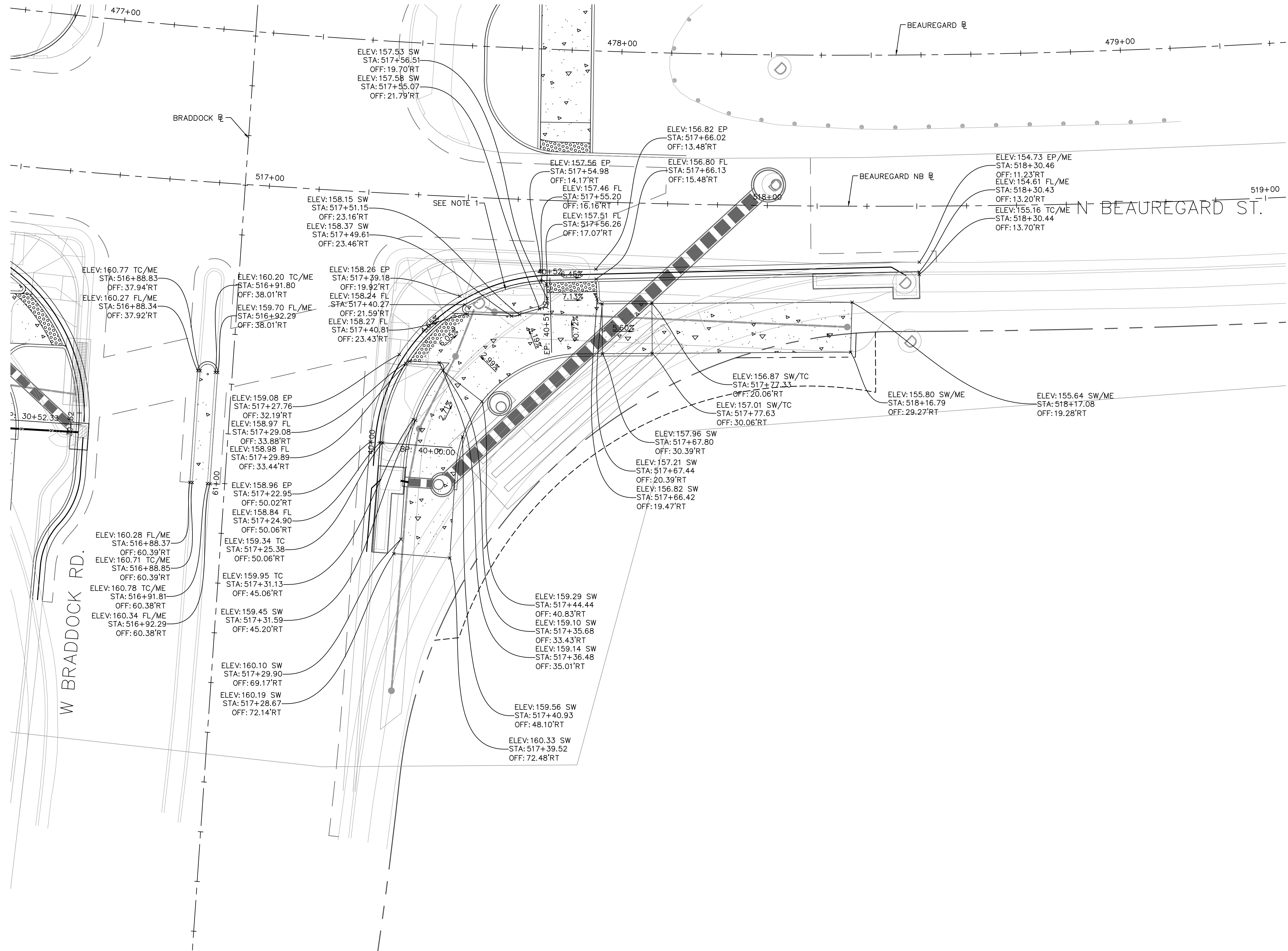
ALEXANDRIA PROJECT NO.:	110104122
DATE OF PLAN ISSUANCE:	N/A
CONSULTANT PROJECT ID.:	N/A
DESIGNED BY:	EJD DATE: 4/5/24
DRAWN BY:	MAT DATE: 4/5/24
CHECKED BY:	EJD DATE: 4/5/24
APPROVED BY:	DATE:

GRADING DETAILS - N BEAUREGARD STREET AT W BRADDOCK ROAD

SHEET
 C-329
 SCALE 1" = 10'

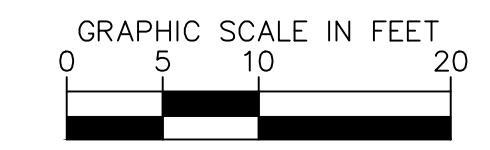
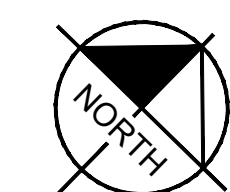
90% DESIGN PHASE

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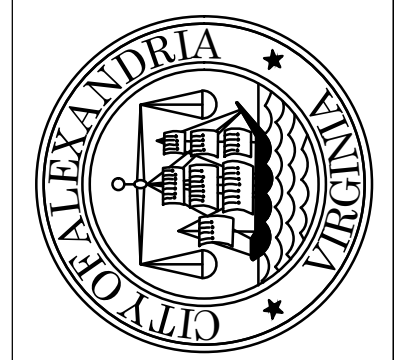
NOTES
 1. 4" MOUNTABLE CURB REQ'D

LEGEND
 TC TOP OF CURB
 FL FLOW LINE
 EP EDGE OF PAVEMENT
 SW SIDEWALK OR RAMP
 ME MATCH EXISTING



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE



CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

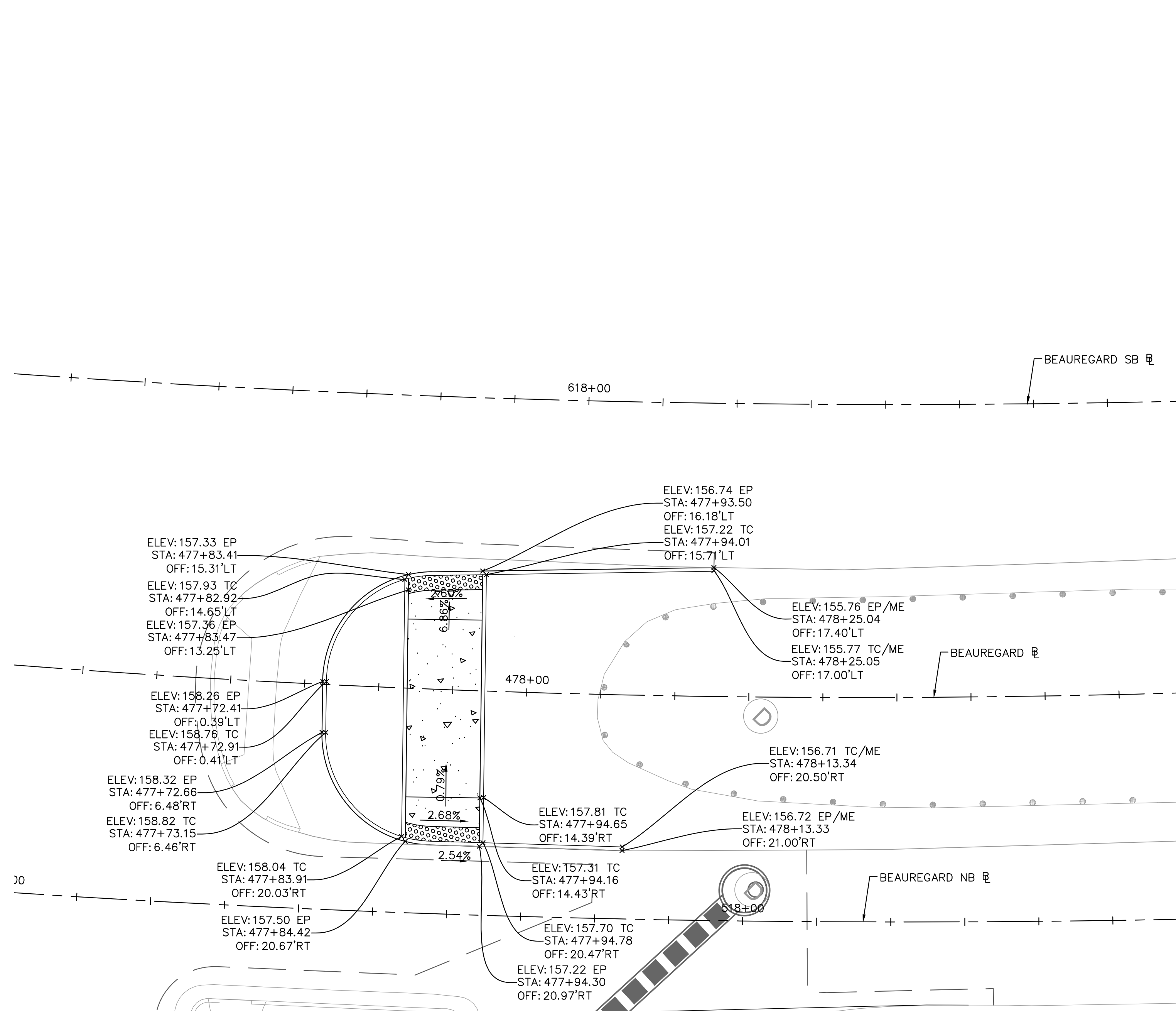
REVISIONS	DESCRIPTION
DATE	BY

ALEXANDRIA PROJECT NO.:	110104122
DATE OF PLAN ISSUANCE:	N/A
CONSULTANT PROJECT ID.:	N/A
DESIGNED BY:	EJD DATE: 4/5/24
DRAWN BY:	MAT DATE: 4/5/24
CHECKED BY:	EJD DATE: 4/5/24
APPROVED BY:	DATE:

**GRADING DETAILS - N
 BEAUREGARD STREET AT
 W BRADDOCK ROAD**

SHEET
 C-330
 SCALE 1" = 10'

Plotted By: Waring, Megan Sheet Set: West End Transitway - Phase 1 Layout: C-331 GRADING DETAIL - N BEAUREGARD STREET July 11, 2024 12:43:36pm K:\NVA_Transit\110104122_West_End_Transitway_Design\CADD\PlanSheets\GRADING PLAN BEAUREGARD.dwg

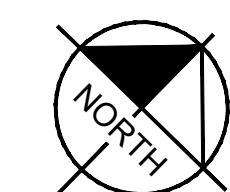


NOTES

- 1. 4" MOUNTABLE CURB REQ'D

LEGEND

- TC TOP OF CURB
- FL FLOW LINE
- EP EDGE OF PAVEMENT
- SW SIDEWALK OR RAMP
- ME MATCH EXISTING



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

REVISIONS	DATE	DESCRIPTION

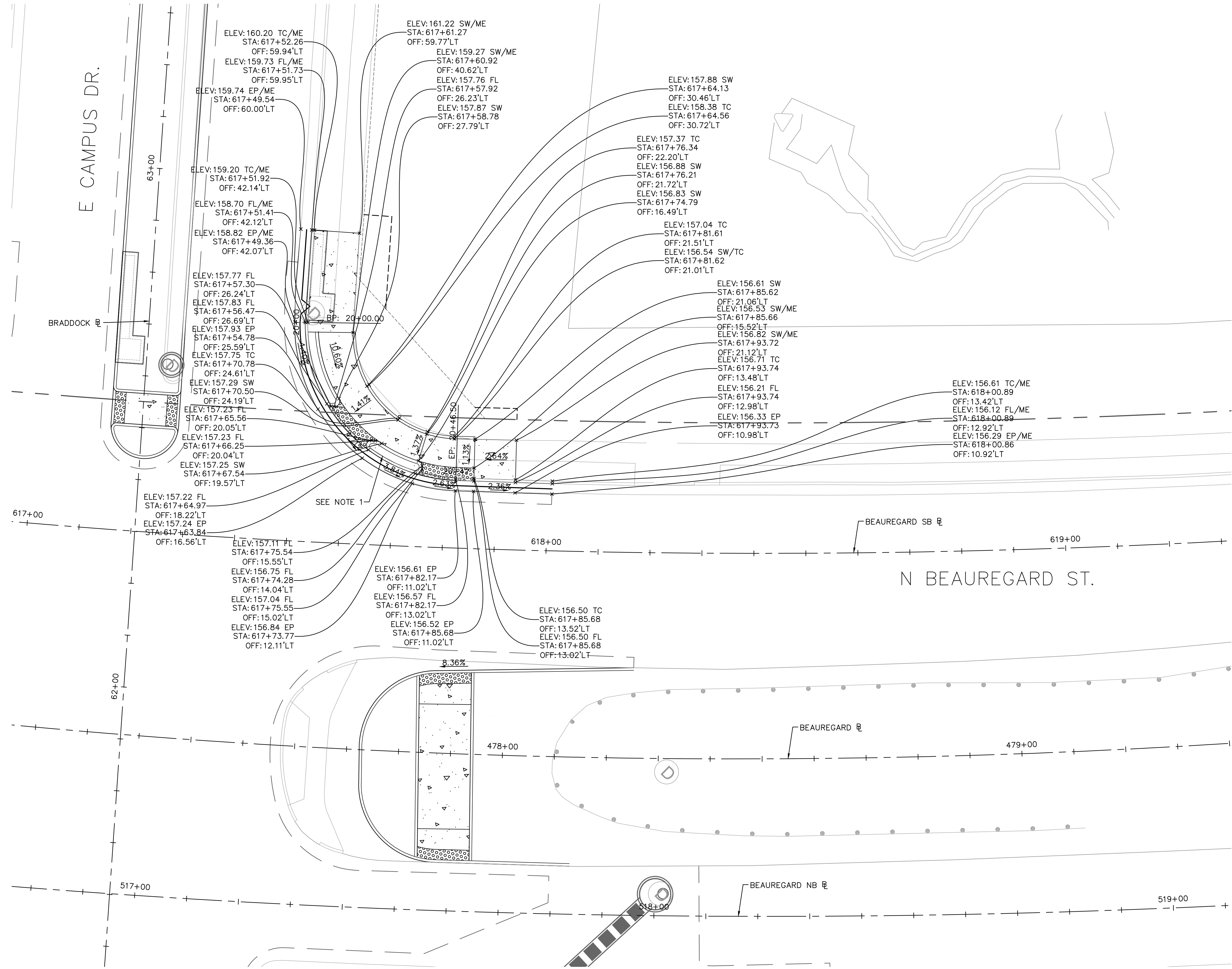
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 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: MAT DATE: 4/5/24
 DRAWN BY: MAT DATE: 4/5/24
 CHECKED BY: EJD DATE: 4/5/24
 APPROVED BY: _____ DATE: _____



CITY OF ALEXANDRIA, VIRGINIA
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 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

**GRADING DETAILS - N
 BEAUREGARD STREET**

SHEET
 C-331
 SCALE 1" = 10'

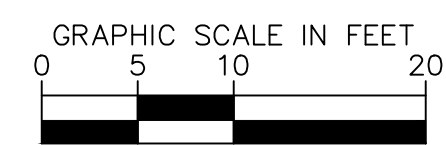
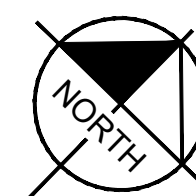


NOTES

- 1. 4" MOUNTABLE CURB REQ'D

LEGEND

- TC TOP OF CURB
- FL FLOW LINE
- EP EDGE OF PAVEMENT
- SW SIDEWALK OR RAMP
- ME MATCH EXISTING



GRADING DETAILS - N
BEAUREGARD STREET AT
W BRADDOCK ROAD

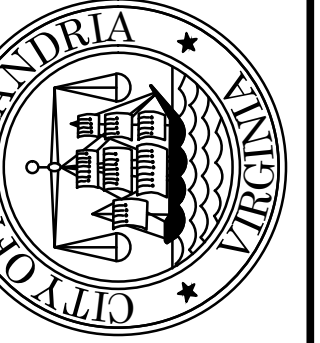
SHEET
C-332

SCALE 1" = 10'

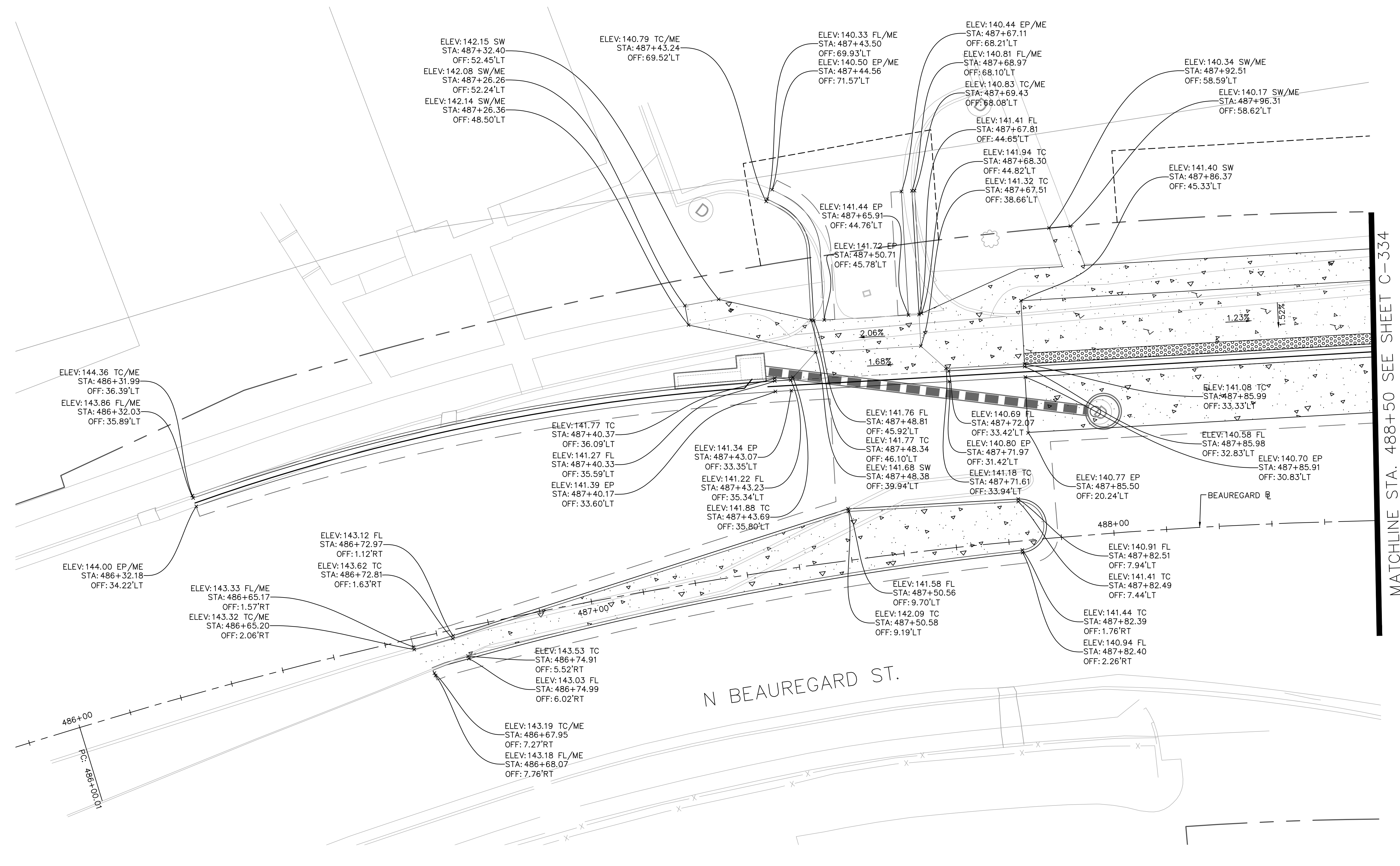
CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

REVISIONS	DATE	DESCRIPTION

ALEXANDRIA PROJECT NO.:	110104122
DATE OF PLAN ISSUANCE:	N/A
CONSULTANT PROJECT ID.:	N/A
DESIGNED BY:	EJD DATE: 4/5/24
DRAWN BY:	MAT DATE: 4/5/24
CHECKED BY:	EJD DATE: 4/5/24
APPROVED BY:	



Plotted By: Phillips, Mark Sheet Set: West End Transitway - Phase 1 Layout: C-333 GRADING DETAIL - N BEAUREGARD STREET AT KING STREET July 12, 2024 05:54:42am K:\NVA_Transit\110104122_West_End_Transitway_Design\CADD\PlanSheets\GRADING_PLAN_BEAREGARD.dwg

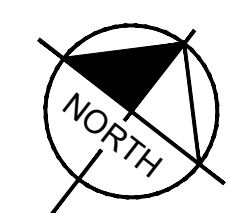


NOTES

1. 4" MOUNTABLE CURB REQ'D

LEGEND

TC TOP OF CURB
 FL FLOW LINE
 EP EDGE OF PAVEMENT
 SW SIDEWALK OR RAMP
 ME MATCH EXISTING



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS **90% DESIGN PHASE**



CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

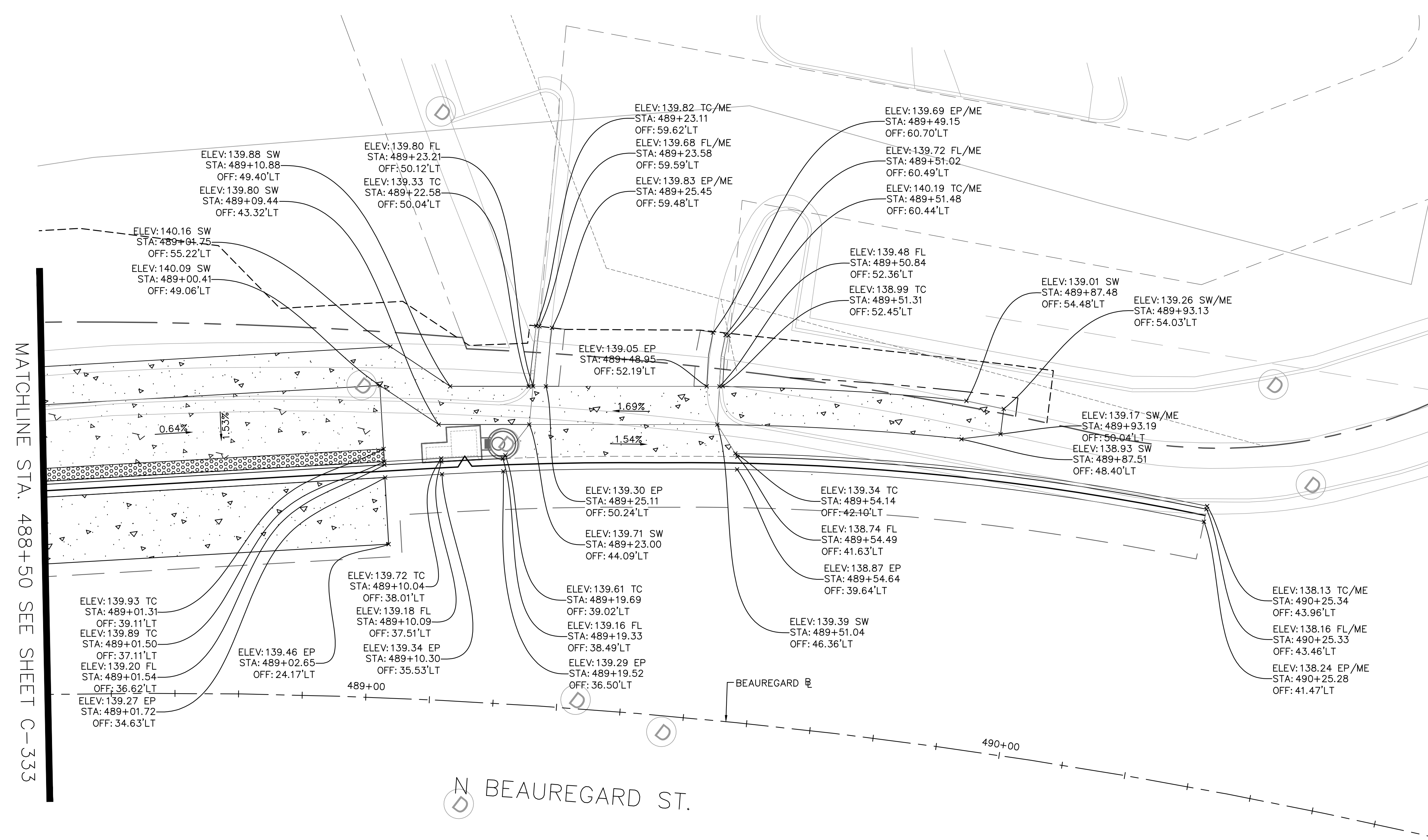
REVISIONS	DESCRIPTION
DATE	BY

ALEXANDRIA PROJECT NO. 110104122	DATE OF PLAN ISSUANCE: N/A
CONSULTANT PROJECT ID: N/A	DESIGNED BY: EJD DATE: 4/5/24
	DRAWN BY: MAT DATE: 4/5/24
	CHECKED BY: EJD DATE: 4/5/24
	APPROVED BY: _____ DATE: _____

GRADING DETAILS - N BEAUREGARD STREET AT KING STREET

SHEET
 C-333
 SCALE 1" = 10'

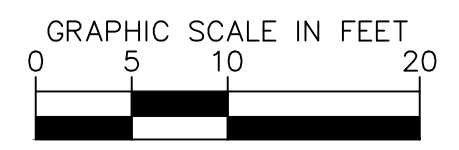
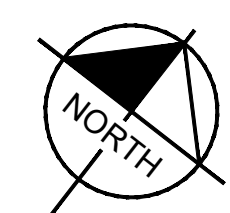
Plotted By: Phillips, Mark Sheet Set: West End Transitway - Phase 1 Layout: C-334 GRADING DETAIL - N BEAUREGARD STREET AT KING STREET July 12, 2024 05:55:29am K:\NVA_Transit\110104122_West_End_Transitway_Design\CADD\PlanSheets\GRADING_PLAN_BEAUREGARD.dwg



MATCHLINE STA. 488+50 SEE SHEET C-333

NOTES
1. 4" MOUNTABLE CURB REQ'D

LEGEND
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SW SIDEWALK OR RAMP
ME MATCH EXISTING



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS 90% DESIGN PHASE



CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
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ALEXANDRIA, VIRGINIA 22313

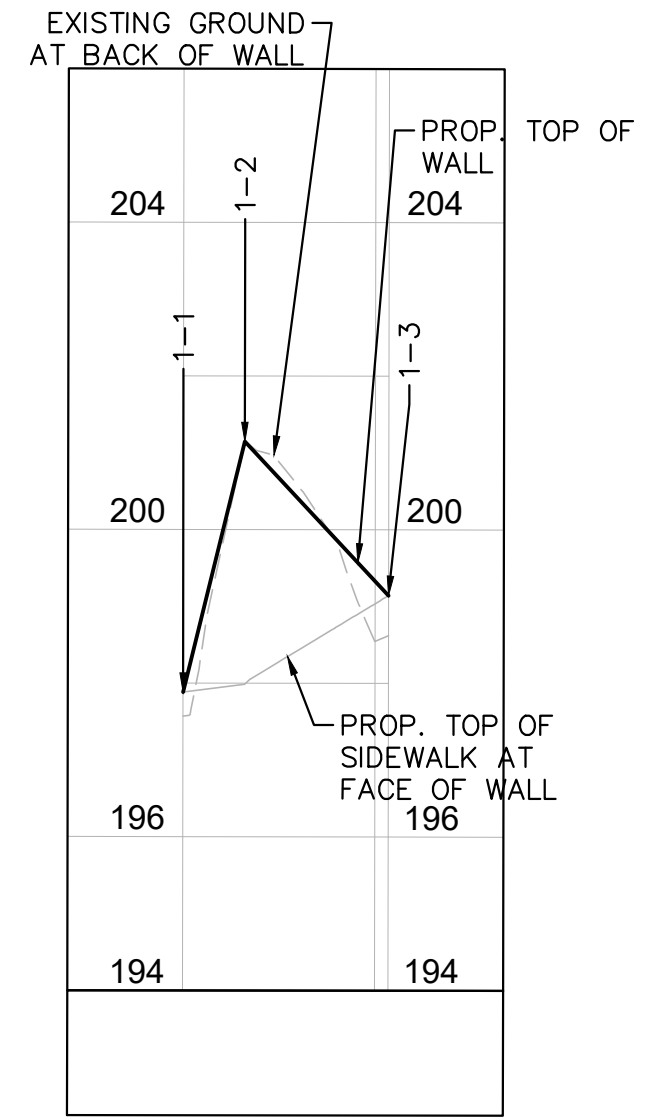
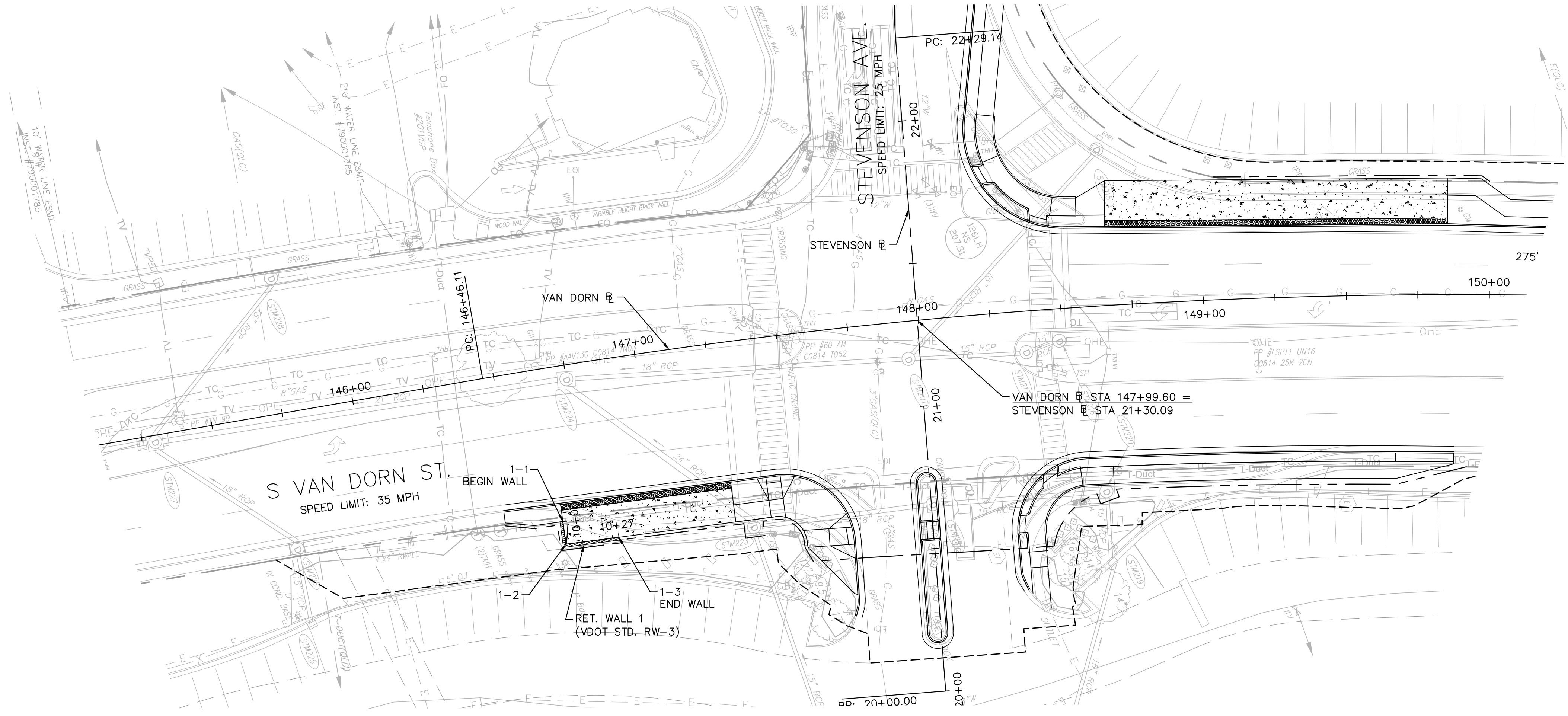
REVISIONS	DATE	DESCRIPTION

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DATE OF PLAN ISSUANCE: N/A
CONSULTANT PROJECT ID: N/A
DESIGNED BY: EJD DATE: 4/5/24
DRAWN BY: MAT DATE: 4/5/24
CHECKED BY: EJD DATE: 4/5/24
APPROVED BY: _____ DATE: _____

GRADING DETAILS - N
BEAUREGARD STREET AT
KING STREET

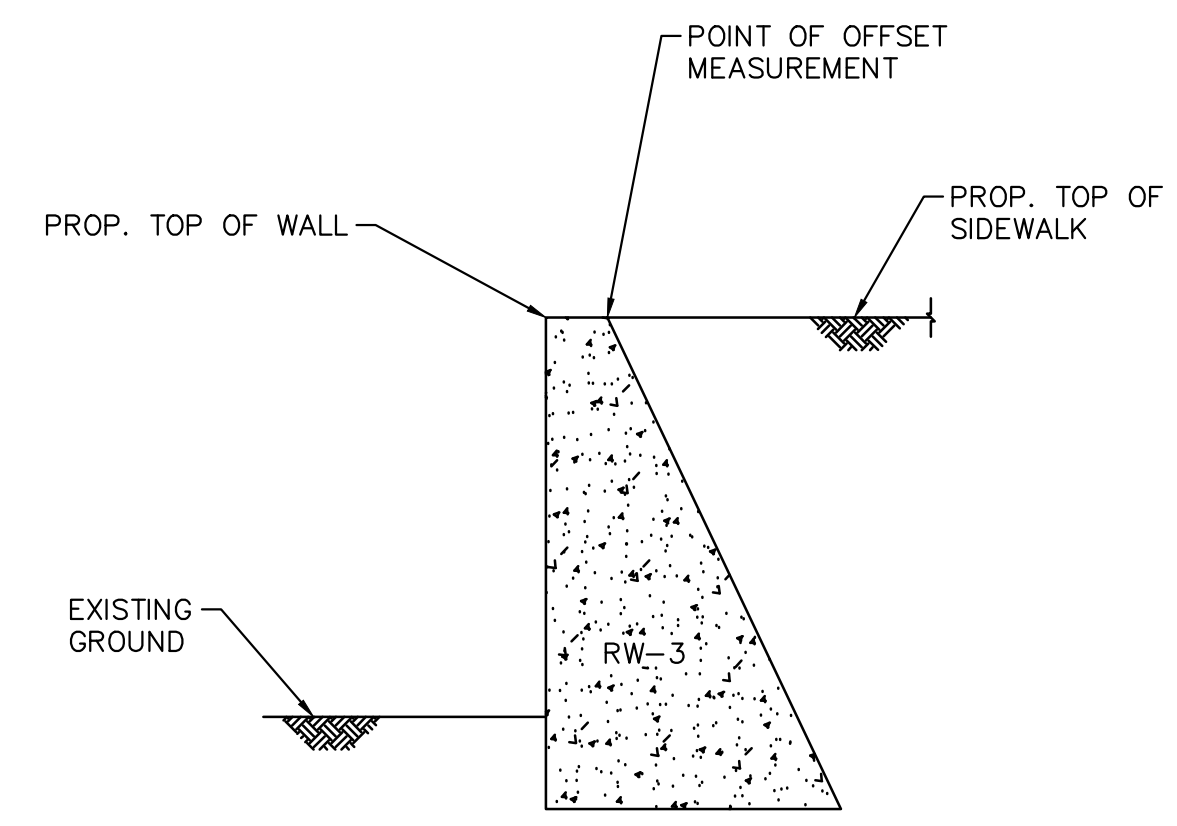
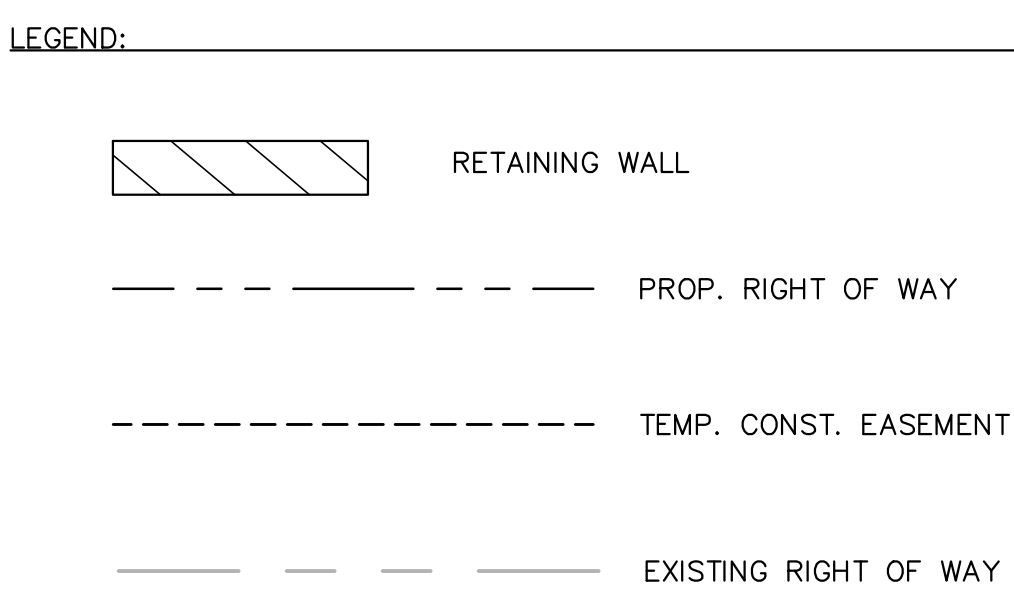
SHEET
C-334
SCALE 1" = 10'

Plotted By: Phillips, Mark Sheet: Sect: West End Transitway - Phase 1 Layout: C-401 RETAINING WALL PLAN July 12, 2024 05:57:30am K:\NVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\RETAINING WALL PLAN.dwg

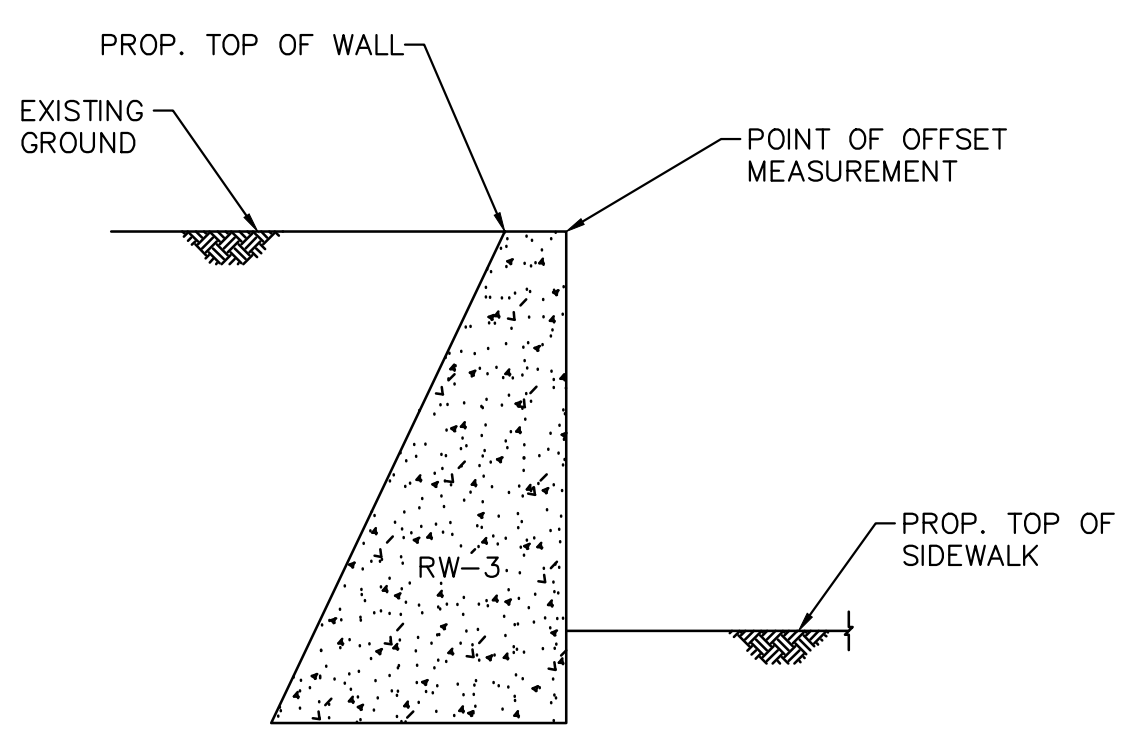


Stevenson Retaining Wall
 SCALE: 1" = 25' H
 1" = 2' V

PROFILE POINT	ALIGNMENT	STATION	OFFSET	T.W. ELEV.	E.G. ELEV.	T.S. ELEV.	WALL HEIGHT
1-1	VAN DORN CL	146+65.77	54.45' R	197.89'	197.57'	197.89'	0.32'
1-2	VAN DORN CL	146+65.53	62.45' R	201.15'	201.15'	197.98'	3.17'
1-3	VAN DORN CL	146+84.87	62.89' R	199.15'	198.62'	199.15'	0.53'

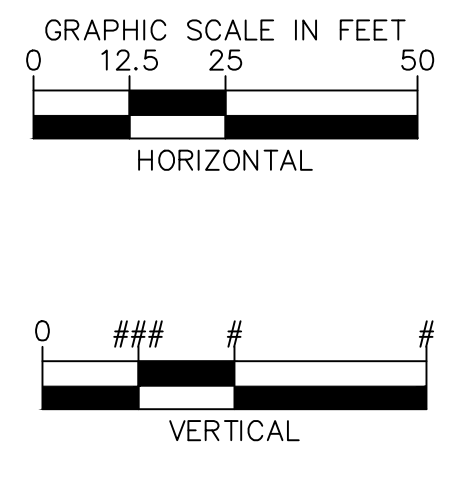


RW-3 POINT OF OFFSET DETAIL - FILL SECTION
 N.T.S.



RW-3 POINT OF OFFSET DETAIL - CUT SECTION
 N.T.S.

- NOTES:**
- SEE SHEET C20.1 FOR RETAINING WALL STANDARD DETAILS AND SPECIFICATIONS.
 - OFFSETS SHOWN FOR WALL GEOMETRY POINTS ARE MEASURED TO THE FACE OF WALL FROM THE RESPECTIVE ALIGNMENT USED. (SEE POINT OF OFFSET DETAIL - THIS SHEET).
 - RET. WALLS 1C AND 4C SHALL HAVE A VDOT STD. HR-1 HANDRAIL INSTALLED FOR THE ENTIRE LENGTH OF THE WALL (SEE DETAIL SHEET C20.1).
 - RET. WALL 2C SHALL HAVE A VDOT STD. HR-1 HANDRAIL INSTALLED BETWEEN POINT 2C-1 AND POINT 2C-4, AND SHALL HAVE NO HANDRAIL INSTALLED FROM POINT 2C-4 AND POINT 2C-6.
 - RET. WALL 3C SHALL HAVE NO HANDRAIL MOUNTED ALONG THE ENTIRE LENGTH OF THE WALL.
 - EXTEND EXISTING DOWNSPOUTS THROUGH RETAINING WALL.
 - FOR WALL 1C JOINT WITH EXISTING RUBBLE WALL, SEE WATERPROOFING JOINT DETAIL ON SHEET C20.3.



CITY OF ALEXANDRIA, VIRGINIA
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 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

REVISIONS	DESCRIPTION

DATE	
BY	

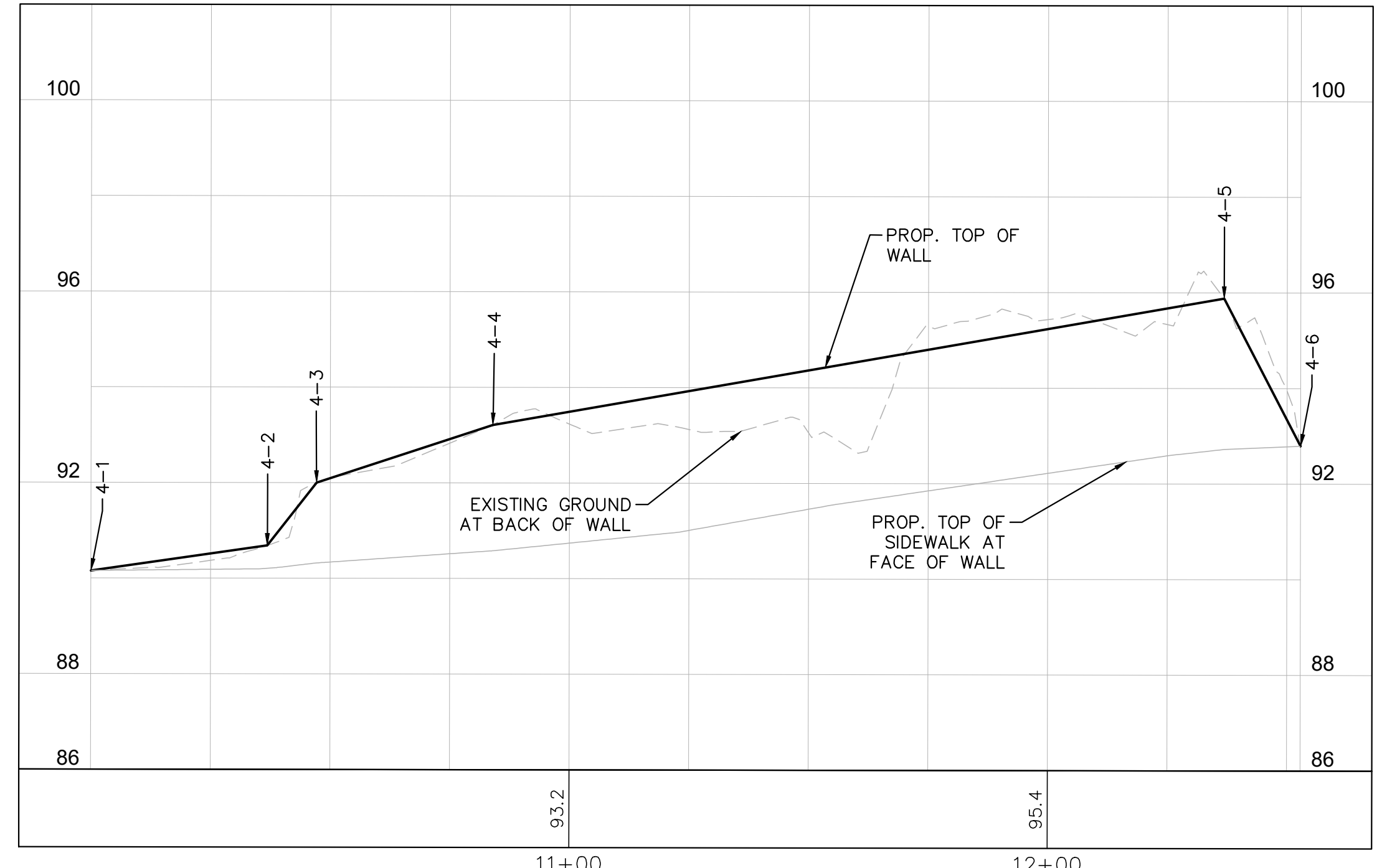
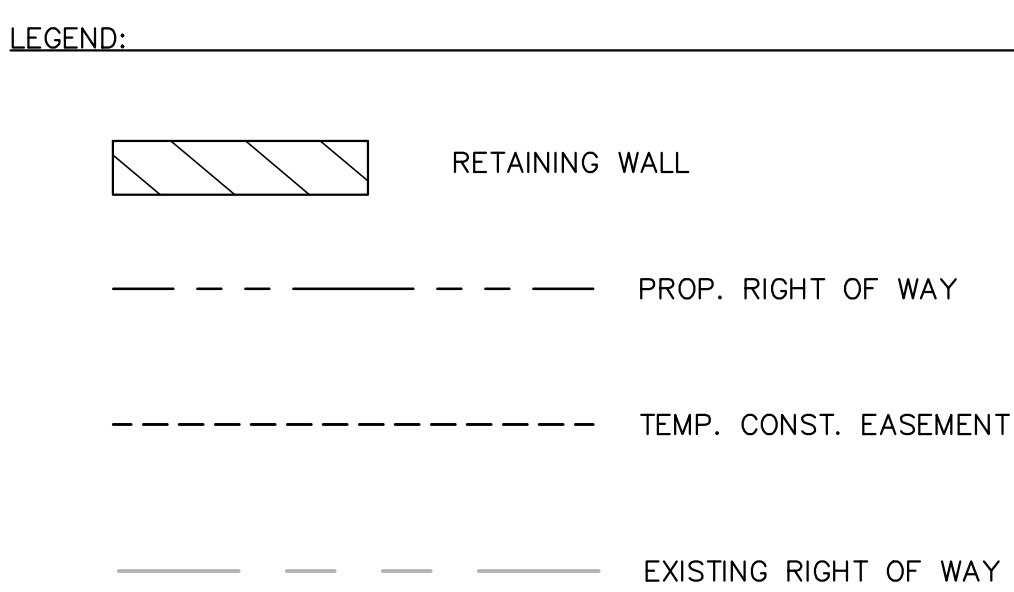
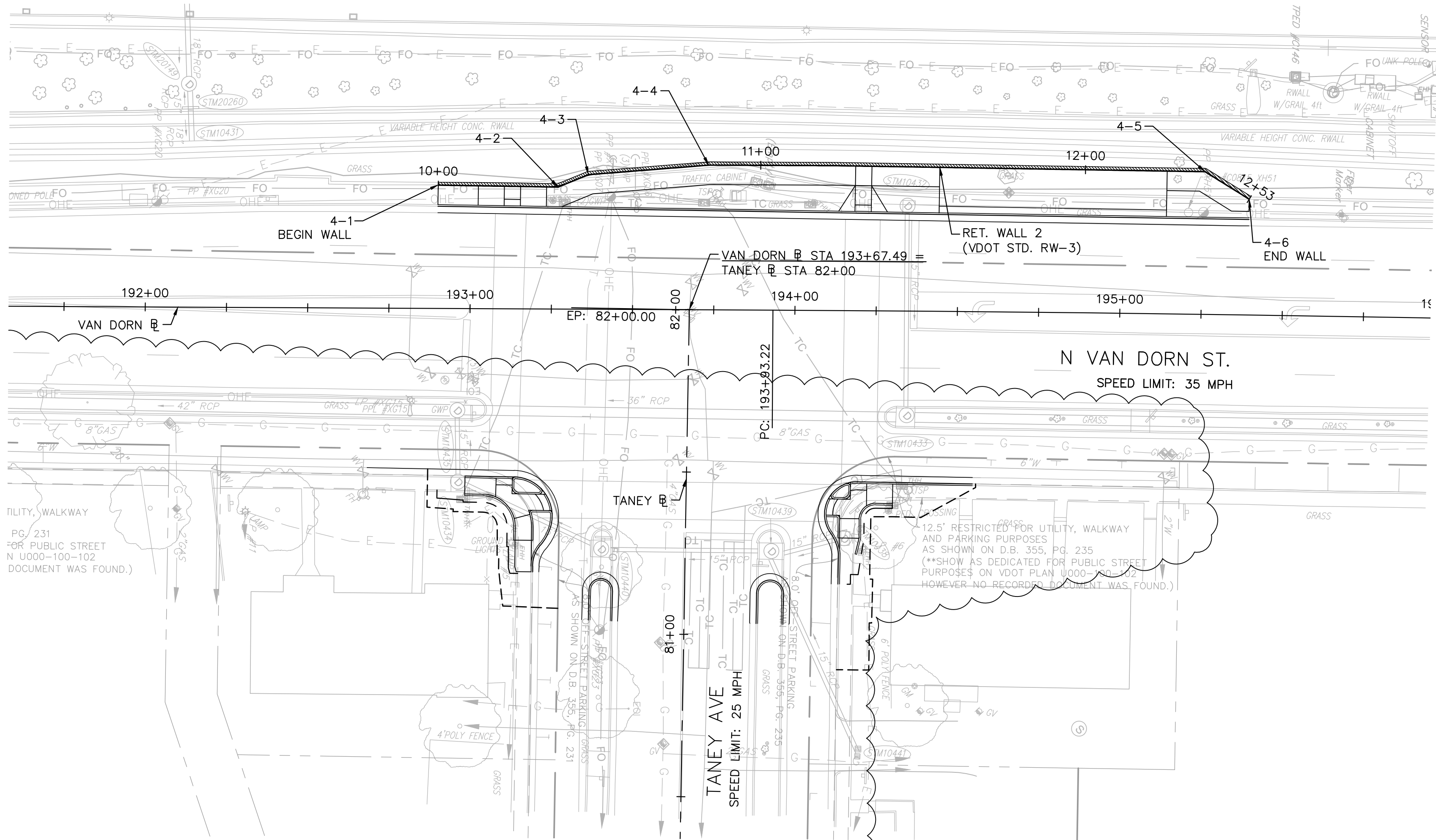
ALEXANDRIA PROJECT NO.:	110104122
DATE OF PLAN ISSUANCE:	N/A
CONSULTANT PROJECT ID.:	N/A
DESIGNED BY:	SUG DATE: 11/9/23
DRAWN BY:	SUG DATE: 11/9/23
CHECKED BY:	MAT DATE: 11/9/23
APPROVED BY:	DATE: 11/9/23

RETAINING WALL PLAN -
VAN DORN ST AT
STEVENSON AVE

SHEET
 C-401
 SCALE AS SHOWN

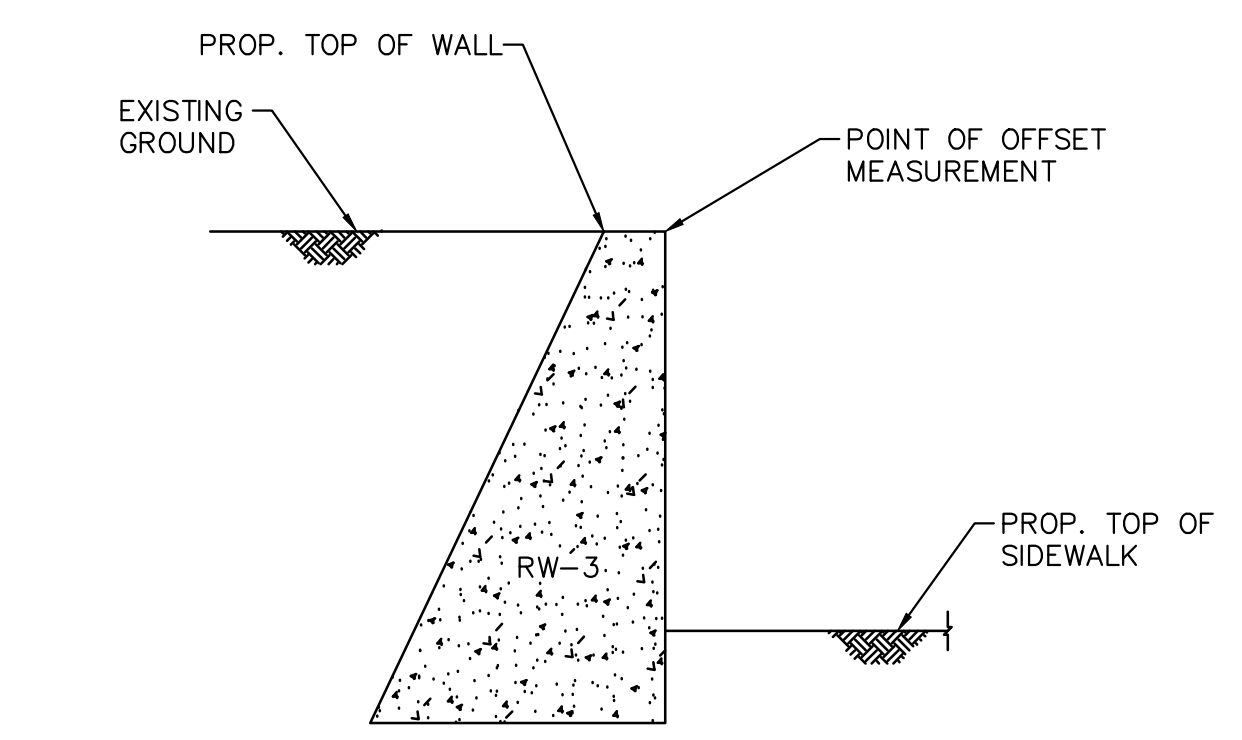
RETAINING WALL PLAN -
 VAN DORN ST AT
 STEVENSON AVE

Plotted By: Waring, Megan Sheet Set: West End Transitway - Phase 1 Layout: C-402 RETAINING WALL PLAN July 11, 2024 12:44:45pm K:\NVA_Transt\110104122_West End Transitway Design\CADD\PlanSheets\RETAINING WALL PLAN.dwg



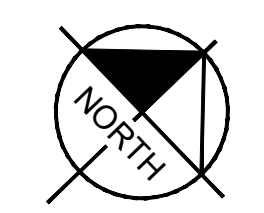
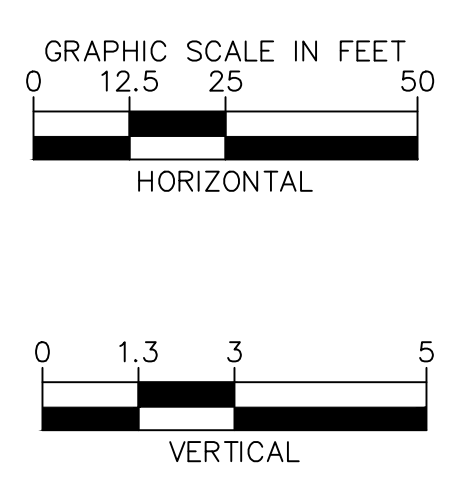
Taney Retaining Wall Profile
SCALE: 1" = 25' H
1" = 2' V

PROFILE POINT	ALIGNMENT	STATION	OFFSET	T.W. ELEV.	E.G. ELEV.	T.S. ELEV.	WALL HEIGHT
4-1	VAN DORN CL	192+90.00	37.98' L	90.16'	90.16'	90.16'	0.00'
4-2	VAN DORN CL	193+26.91	37.57' L	90.68'	90.68'	90.21'	0.47'
4-3	VAN DORN CL	193+36.20	41.44' L	92.00'	92.00'	90.32'	1.68'
4-4	VAN DORN CL	193+73.23	44.57' L	93.21'	93.21'	90.58'	2.63'
4-5	VAN DORN CL	195+25.65	43.92' L	95.88'	95.88'	92.72'	3.16'
4-6	VAN DORN CL	195+39.32	35.64' L	92.79'	92.79'	92.79'	0.00'



RW-3 POINT OF OFFSET DETAIL - CUT SECTION
N.T.S.

- NOTES:**
- SEE SHEET C20.1 FOR RETAINING WALL STANDARD DETAILS AND SPECIFICATIONS.
 - OFFSETS SHOWN FOR WALL GEOMETRY POINTS ARE MEASURED TO THE FACE OF WALL FROM THE RESPECTIVE ALIGNMENT USED. (SEE POINT OF OFFSET DETAIL - THIS SHEET).
 - RET. WALLS 1C AND 4C SHALL HAVE A VDOT STD. HR-1 HANDRAIL INSTALLED FOR THE ENTIRE LENGTH OF THE WALL (SEE DETAIL SHEET C20.1).
 - RET. WALL 2C SHALL HAVE A VDOT STD. HR-1 HANDRAIL INSTALLED BETWEEN POINT 2C-1 AND POINT 2C-4, AND SHALL HAVE NO HANDRAIL INSTALLED FROM POINT 2C-4 AND POINT 2C-6.
 - RET. WALL 3C SHALL HAVE NO HANDRAIL MOUNTED ALONG THE ENTIRE LENGTH OF THE WALL.
 - EXTEND EXISTING DOWNSPOUTS THROUGH RETAINING WALL.
 - FOR WALL 1C JOINT WITH EXISTING RUBBLE WALL, SEE WATERPROOFING JOINT DETAIL ON SHEET C20.3.



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS



CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

REVISIONS

DATE	DESCRIPTION

ALEXANDRIA PROJECT NO.: 110104122

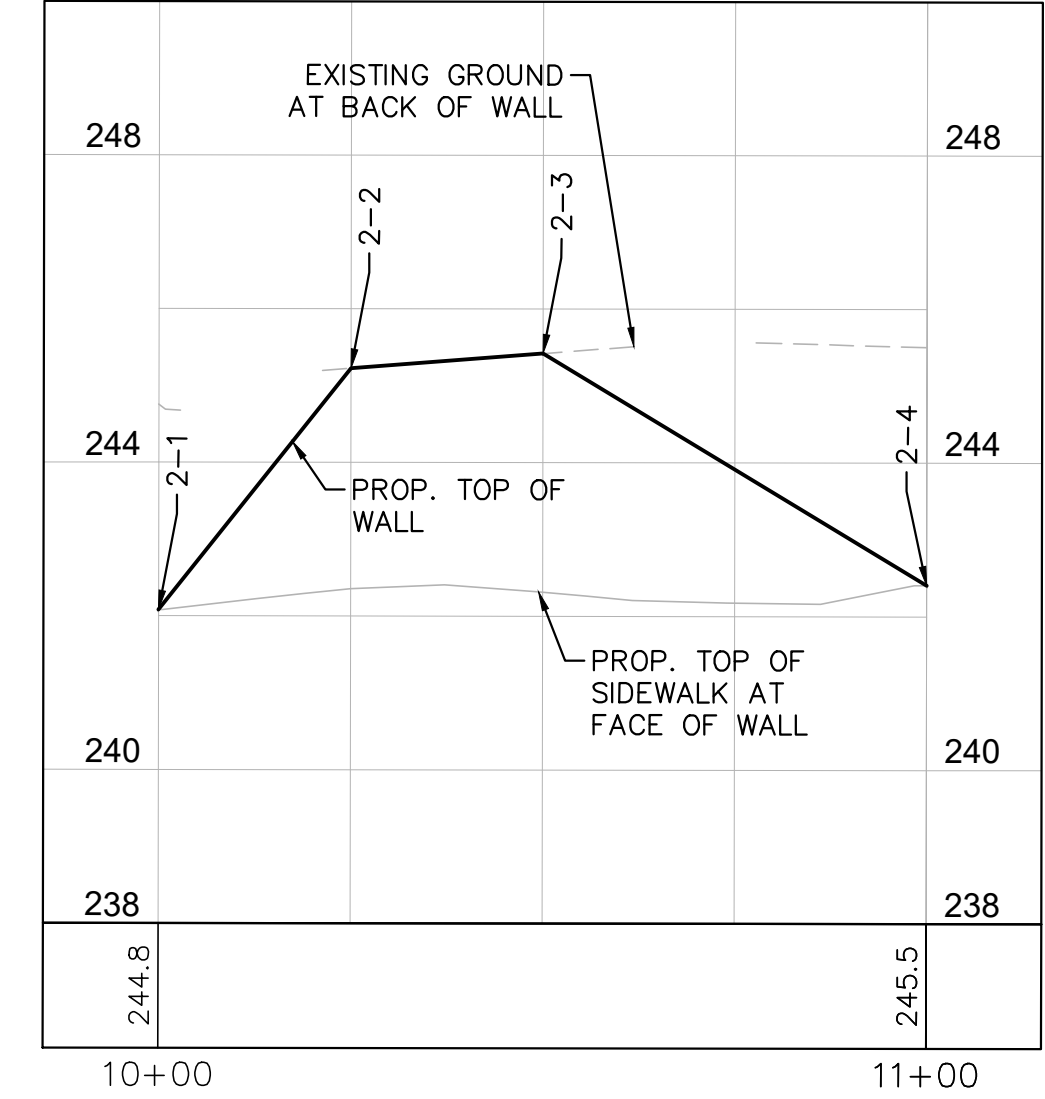
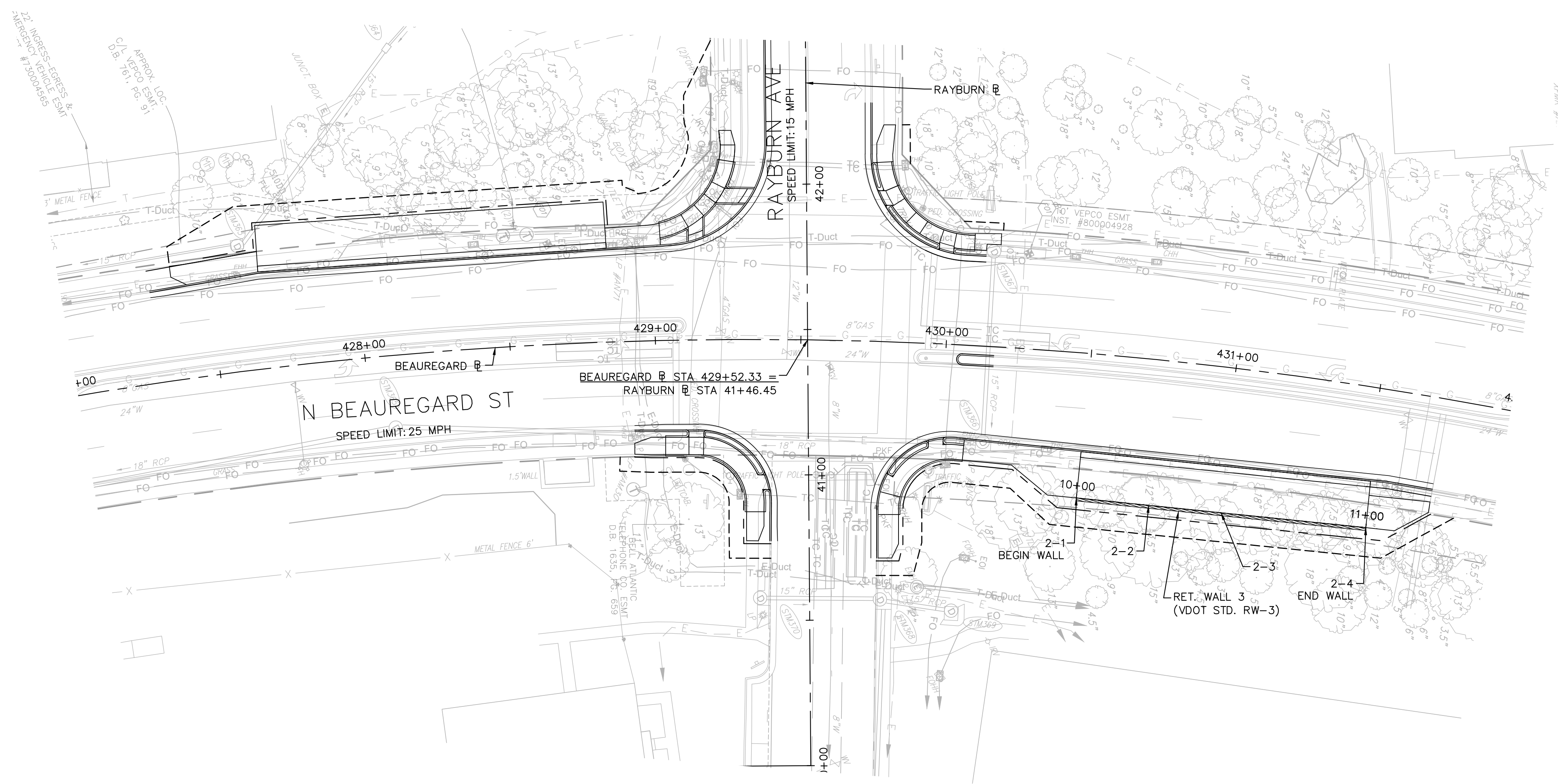
DATE OF PLAN ISSUANCE:	N/A
CONSULTANT PROJECT ID:	N/A
DESIGNED BY:	SUG DATE: 11/9/23
DRAWN BY:	SUG DATE: 11/9/23
CHECKED BY:	MAT DATE: 11/9/23
APPROVED BY:	DATE: 11/9/23

RETAINING WALL PLAN - VAN DORN ST AT TANNEY AVE

SHEET
C-402
SCALE AS SHOWN

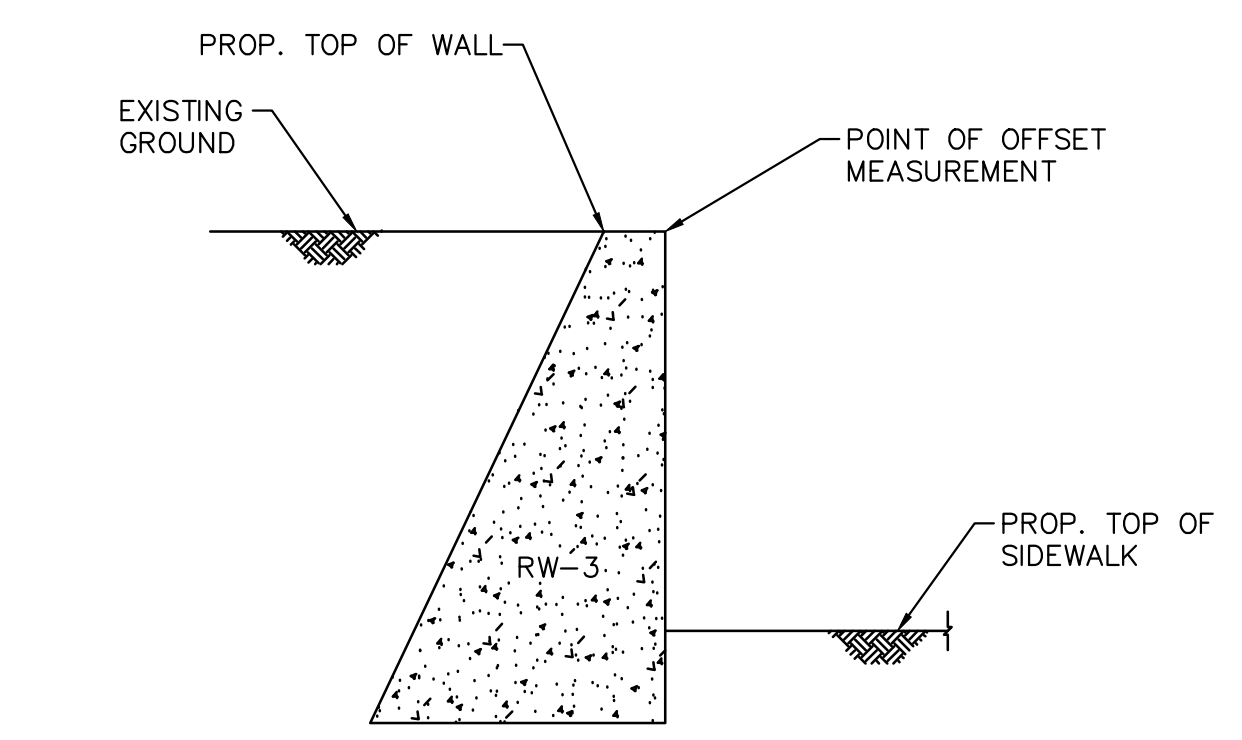
90% DESIGN PHASE

Plotted By: Waring, Megan Sheet Set: West End Transitway - Phase 1 Layout: C-403 RETAINING WALL PLAN July 11, 2024 12:44:54pm K:\NVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\RETAINING WALL PLAN.dwg



Rayburn Retaining Wall Profile
 SCALE: 1" = 25' H
 1" = 2' V

PROFILE POINT	ALIGNMENT	STATION	OFFSET	T.W. ELEV.	E.G. ELEV.	T.S. ELEV.	WALL HEIGHT
2-1	BEAUREGARD CL	430+48.95	49.92' R	242.08'	244.76'	242.08'	2.68'
2-2	BEAUREGARD CL	430+74.88	50.18' R	245.23'	245.23'	242.36'	2.87'
2-3	BEAUREGARD CL	431+00.80	49.98' R	245.42'	245.42'	242.32'	3.10'
2-4	BEAUREGARD CL	431+52.59	48.27' R	242.41'	245.51'	242.41'	3.10"

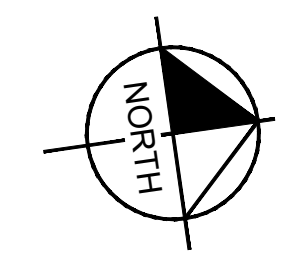
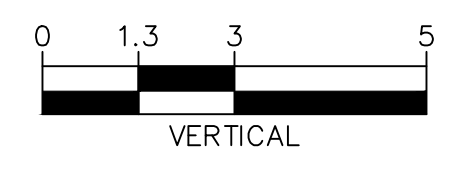
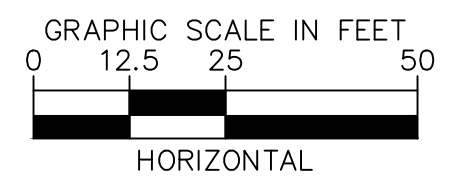


RW-3 POINT OF OFFSET DETAIL - CUT SECTION
 N.T.S.

LEGEND:

	RETAINING WALL
	PROP. RIGHT OF WAY
	TEMP. CONST. EASEMENT
	EXISTING RIGHT OF WAY

- NOTES:**
- SEE SHEET C20.1 FOR RETAINING WALL STANDARD DETAILS AND SPECIFICATIONS.
 - OFFSETS SHOWN FOR WALL GEOMETRY POINTS ARE MEASURED TO THE FACE OF WALL FROM THE RESPECTIVE ALIGNMENT USED. (SEE POINT OF OFFSET DETAIL - THIS SHEET).
 - RET. WALLS 1C AND 4C SHALL HAVE A VDOT STD. HR-1 HANDRAIL INSTALLED FOR THE ENTIRE LENGTH OF THE WALL (SEE DETAIL SHEET C20.1).
 - RET. WALL 2C SHALL HAVE A VDOT STD. HR-1 HANDRAIL INSTALLED BETWEEN POINT 2C-1 AND POINT 2C-4, AND SHALL HAVE NO HANDRAIL INSTALLED FROM POINT 2C-4 AND POINT 2C-6.
 - RET. WALL 3C SHALL HAVE NO HANDRAIL MOUNTED ALONG THE ENTIRE LENGTH OF THE WALL.
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 - FOR WALL 1C JOINT WITH EXISTING RUBBLE WALL, SEE WATERPROOFING JOINT DETAIL ON SHEET C20.3.



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS



CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

REVISIONS

DATE	DESCRIPTION

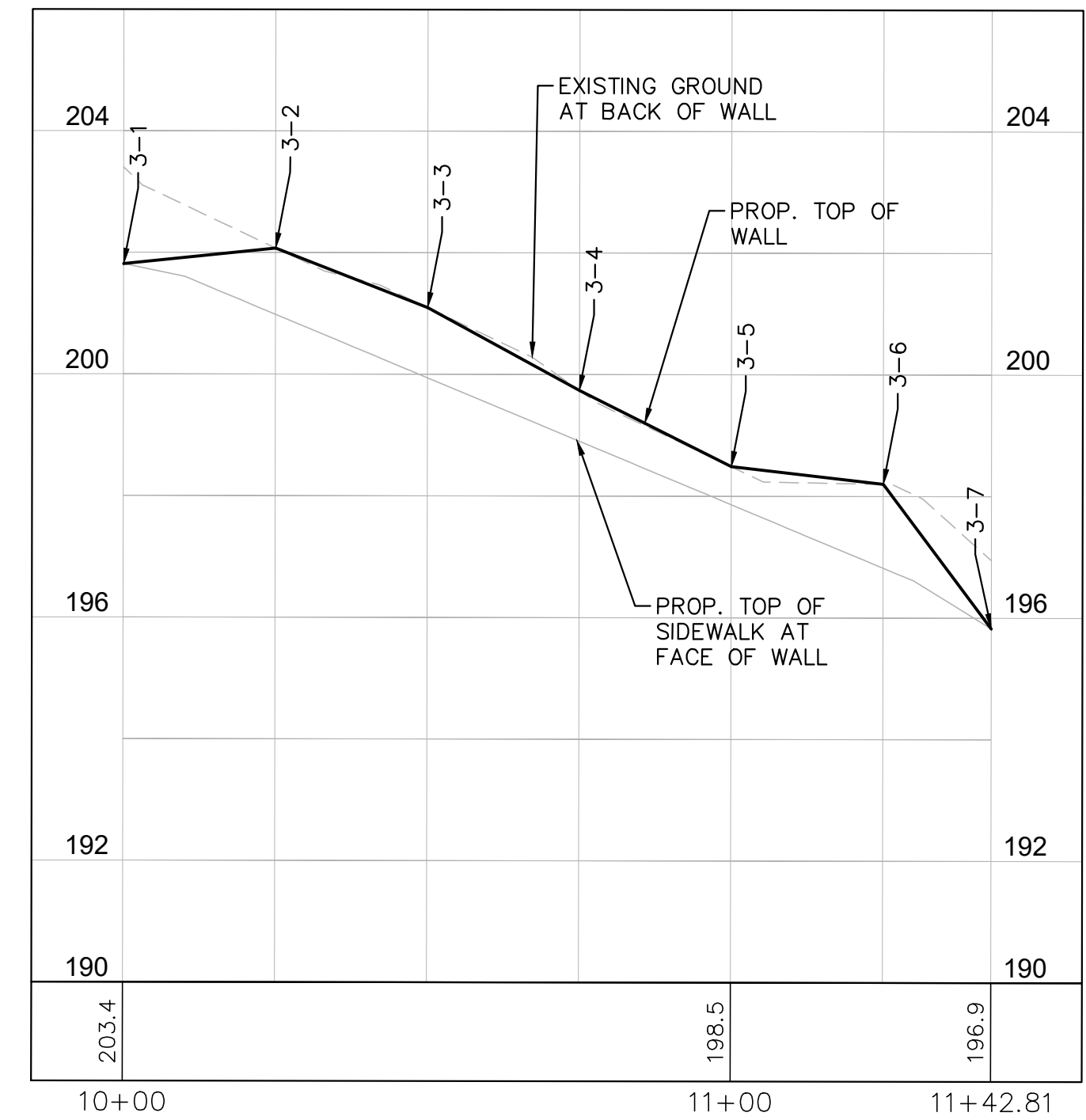
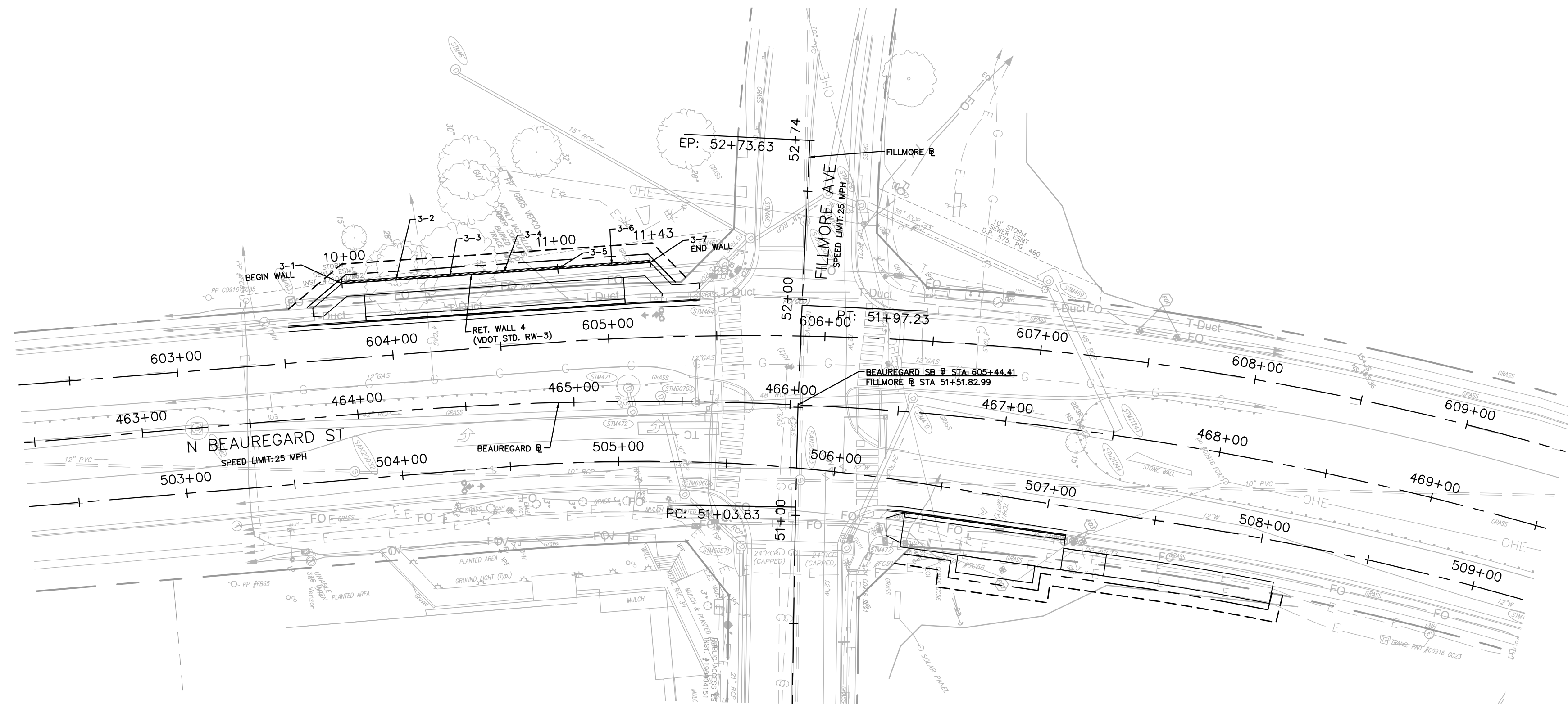
ALEXANDRIA PROJECT NO.: 110104122
 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: SUG DATE: 11/9/23
 DRAWN BY: SUG DATE: 11/9/23
 CHECKED BY: MAT DATE: 11/9/23
 APPROVED BY: DATE: 11/9/23

RETAINING WALL PLAN -
N BEAUREGARD ST AT
RAYBURN AVE

SHEET
 C-403
 SCALE AS SHOWN

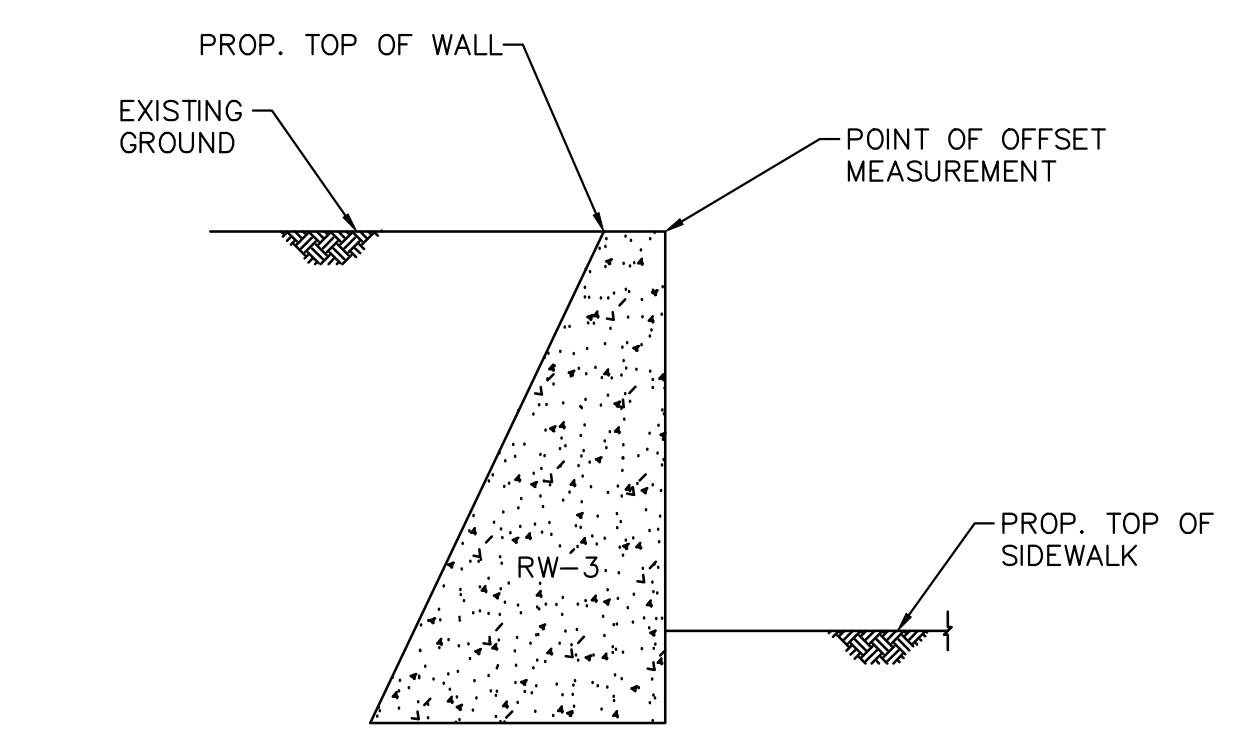
90% DESIGN PHASE

Plotted By: Waring, Megan Sheet Set: West End Transitway - Phase 1 Layout: C-404 - RETAINING WALL PLAN July 11, 2024 12:45:02pm K:\NVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\RETAINING WALL PLAN.dwg



Fillmore Retaining Wall Profile
SCALE: 1" = 25' H
1" = 2' V

PROFILE POINT	ALIGNMENT	STATION	OFFSET	T.W. ELEV.	E.G. ELEV.	T.S. ELEV.	WALL HEIGHT
3-1	BEAUREGARD CL	463+97.82	60.81' L	201.81'	203.40'	201.81'	1.59'
3-2	BEAUREGARD CL	464+22.12	60.47' L	202.07'	202.07'	200.98'	1.09'
3-3	BEAUREGARD CL	464+46.15	60.52' L	201.10'	201.10'	199.94'	1.16'
3-4	BEAUREGARD CL	464+70.17	60.97' L	199.74'	199.74'	198.90'	0.84'
3-5	BEAUREGARD CL	464+94.18	61.81' L	198.49'	198.49'	197.86'	0.63'
3-6	BEAUREGARD CL	465+18.15	63.06' L	198.20'	198.20'	196.82'	1.38'
3-7	BEAUREGARD CL	465+35.20	64.19' L	195.83'	196.95'	195.83'	1.12'

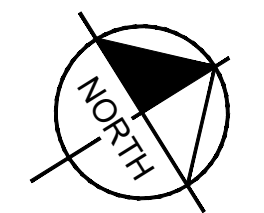
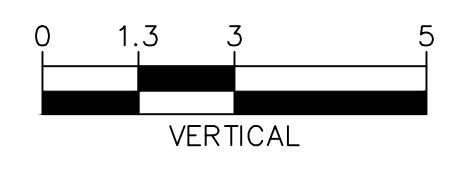
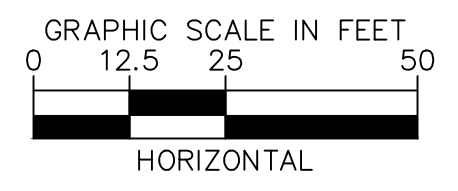


RW-3 POINT OF OFFSET DETAIL - CUT SECTION
N.T.S.

- NOTES:**
- SEE SHEET C20.1 FOR RETAINING WALL STANDARD DETAILS AND SPECIFICATIONS.
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 - RET. WALL 2C SHALL HAVE A VDOT STD. HR-1 HANDRAIL INSTALLED BETWEEN POINT 2C-1 AND POINT 2C-4, AND SHALL HAVE NO HANDRAIL INSTALLED FROM POINT 2C-4 AND POINT 2C-6.
 - RET. WALL 3C SHALL HAVE NO HANDRAIL MOUNTED ALONG THE ENTIRE LENGTH OF THE WALL.
 - EXTEND EXISTING DOWNSPOUTS THROUGH RETAINING WALL.
 - FOR WALL 1C JOINT WITH EXISTING RUBBLE WALL, SEE WATERPROOFING JOINT DETAIL ON SHEET C20.3.

LEGEND:

- RETAINING WALL
- PROP. RIGHT OF WAY
- TEMP. CONST. EASEMENT
- EXISTING RIGHT OF WAY



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS **90% DESIGN PHASE**



CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

REVISIONS	DESCRIPTION
DATE	BY

ALEXANDRIA PROJECT NO.:	110104122
DATE OF PLAN ISSUANCE:	N/A
CONSULTANT PROJECT ID.:	N/A
DESIGNED BY:	SUG. DATE: 11/9/23
DRAWN BY:	SUG. DATE: 11/9/23
CHECKED BY:	MAT. DATE: 11/9/23
APPROVED BY:	DATE: 11/9/23

RETAINING WALL PLAN -
N BEAUREGARD AVE AT
FILLMORE AVE

SHEET
C-404
SCALE AS SHOWN

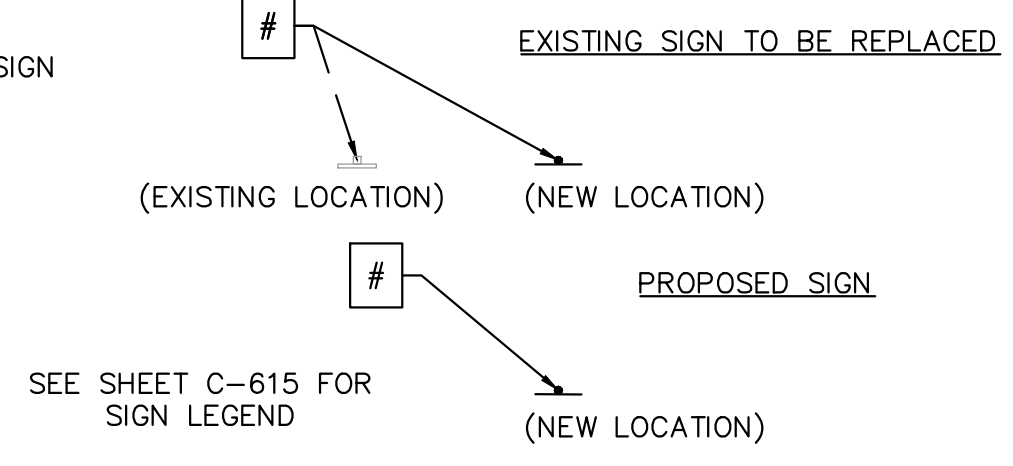
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PAVEMENT MARKING LEGEND:

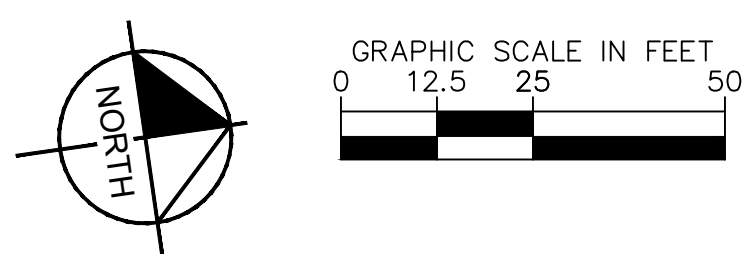
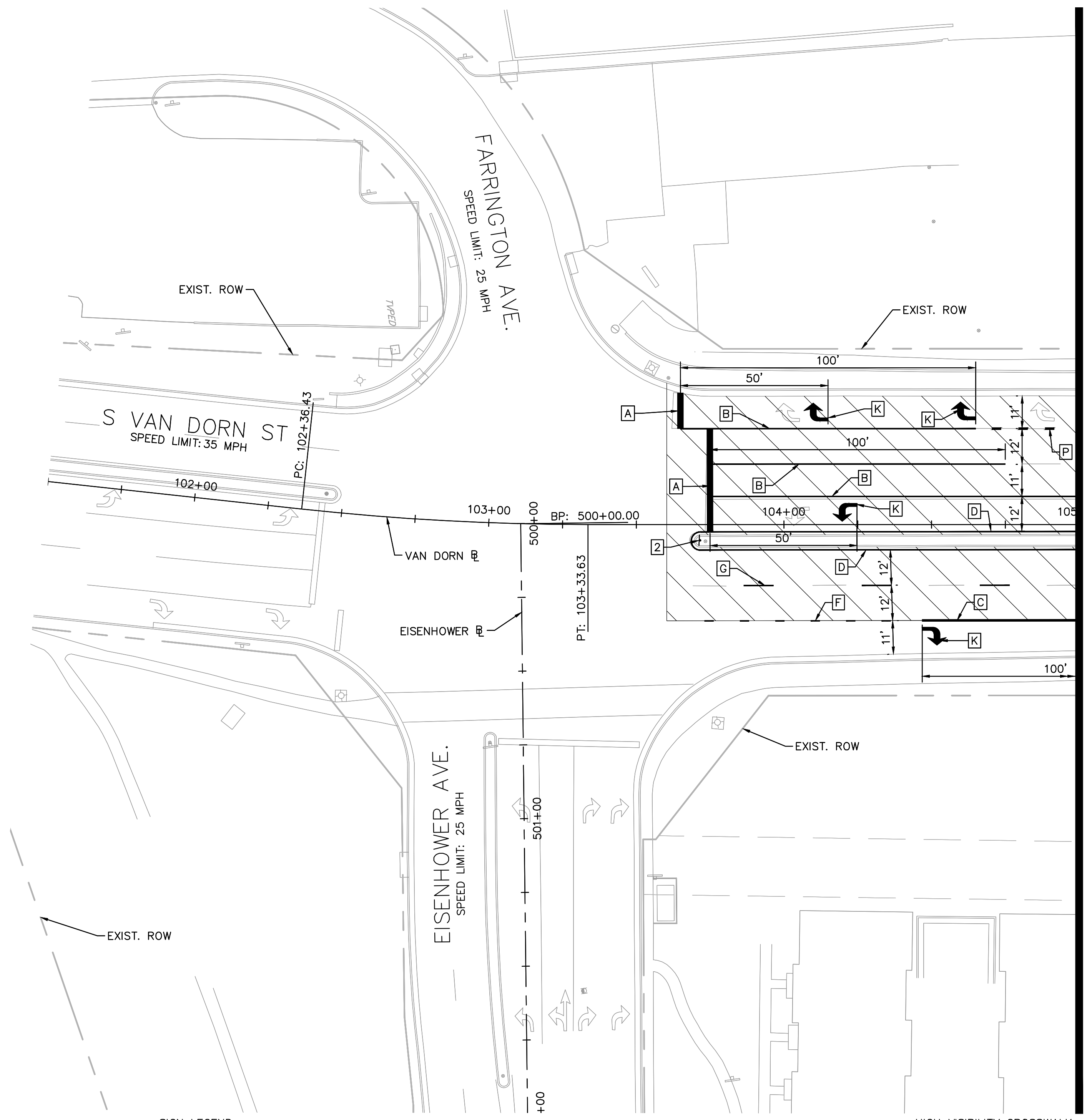
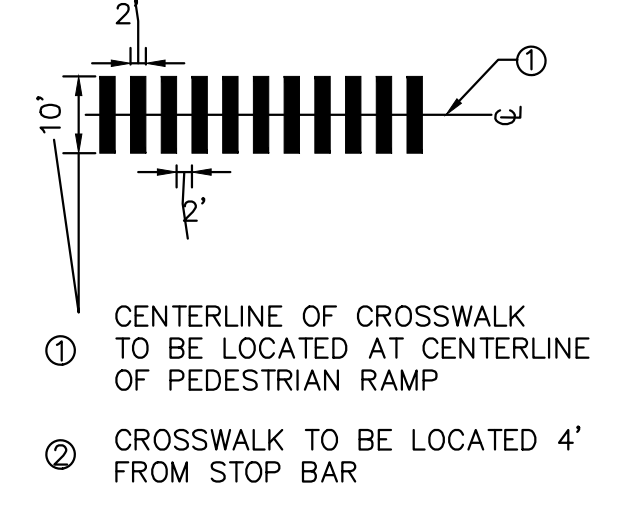
- [A] TYPE B, CLASS I, WHITE, 24" WIDTH
- [B] TYPE B, CLASS I, WHITE, 4" WIDTH
- [C] TYPE B, CLASS I, WHITE, 8" WIDTH
- [D] TYPE B, CLASS I, YELLOW, 4" WIDTH
- [E] TYPE B, CLASS I, WHITE, 4" WIDTH, 2' LONG, 6' SPACE
- [F] TYPE B, CLASS I, WHITE, 4" WIDTH, 3' LONG, 9' SPACE
- [G] TYPE B, CLASS I, WHITE, 4" WIDTH, 10' LONG, 30' SPACE
- [H] TYPE B, CLASS I, YELLOW DOUBLE PAVEMENT LINE MARKING 4" WIDTH, WITH 4" SPACING
- [J] TYPE B, CLASS I, YELLOW DOUBLE PAVEMENT LINE MARKING 4" WIDTH, WITH 4" SPACING, 2' LONG, 6' SPACE
- [K] TYPE B, CLASS I, WHITE PAVEMENT ARROW MARKING OR MESSAGE MARKING, VDOT STD PM-10
- [L] TYPE B, CLASS I, WHITE DOUBLE PAVEMENT LINE MARKING 4" WIDTH, WITH 4" SPACING
- [M] TYPE B, CLASS I, WHITE 2' X 3' YIELD TRIANGLES
- [N] RED METHYL METHACRYLATE (MMA) (BUS LANE)
- [O] TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING 24" WIDTH, WITH 20' SPACING AT 45 DEGREES
- [P] TYPE B, CLASS I, WHITE, 8" WIDTH, 3' LONG, 9' SPACE

SIGN LEGEND:

- [X] REMOVE EXISTING SIGN
- [X with circle] REMOVE AND SALVAGE EXISTING SIGN
- [+ with circle] EXISTING SIGN
- [+ with circle and dot] PROPOSED SIGN
- [•] BOLLARD



HIGH VISIBILITY CROSSWALK:



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

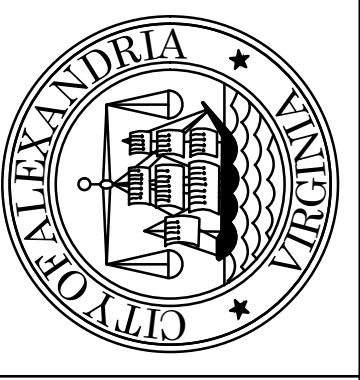
90% DESIGN PHASE

**SIGNING AND MARKING
 PLAN - S VAN DORN
 STREET AT EISENHOWER
 AVENUE**

SHEET
 C-601
 SCALE 1" = 25'

REVISIONS	DATE	DESCRIPTION

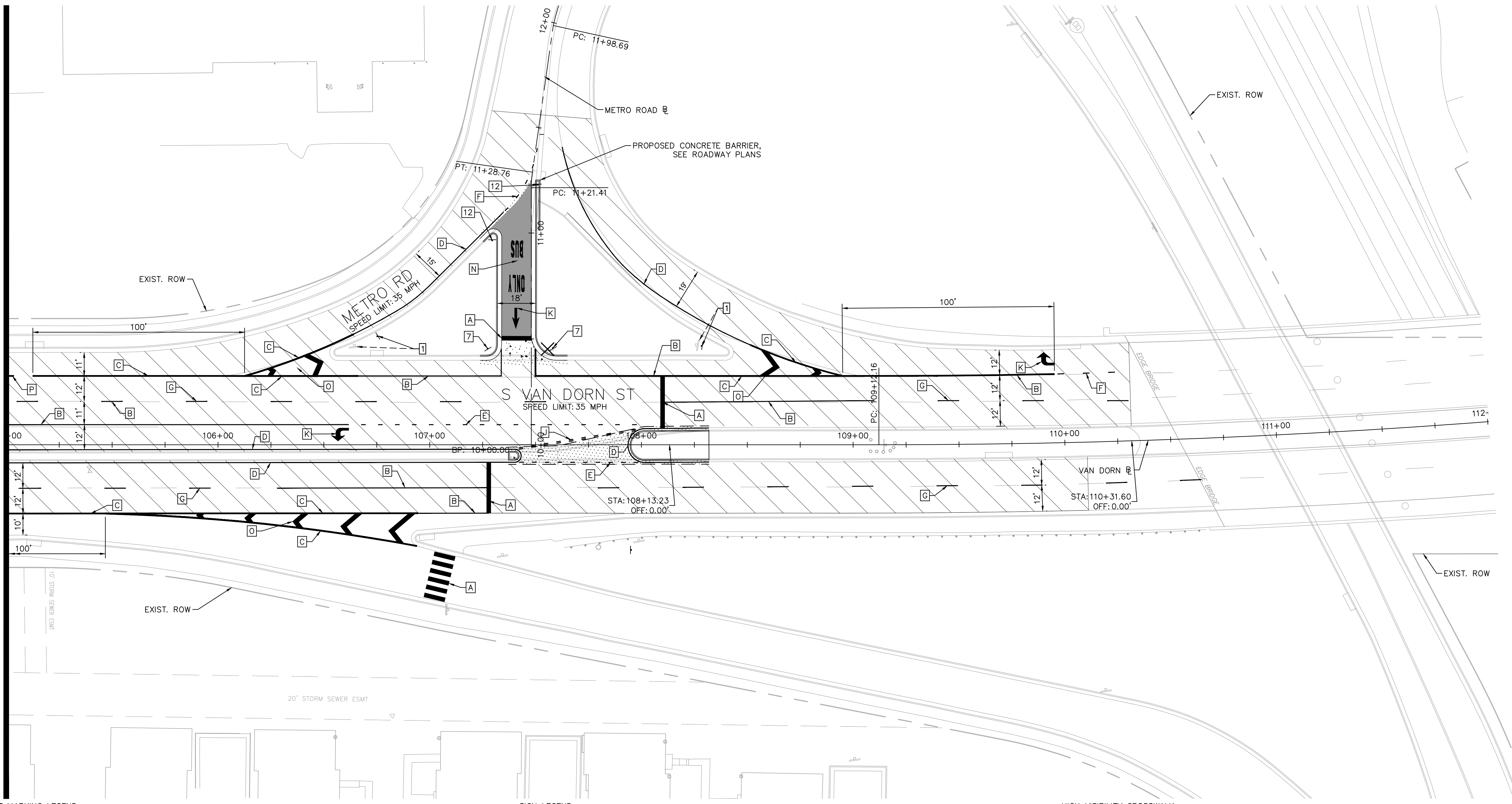
CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313



ALEXANDRIA PROJECT NO.: 110104122
 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: MAT DATE: 4/5/24
 DRAWN BY: AJB DATE: 4/5/24
 CHECKED BY: EJD DATE: 4/5/24
 APPROVED BY: _____ DATE: _____

Plotted By: Waring, Megan Sheet Set: West End Transitway - Phase 1 Layout: C-602 SIGNING AND MARKING PLAN August 15, 2024 03:59:53pm K:\NVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\SIGNING AND MARKING PLAN VAN DORN.dwg

MATCHLINE STA. 105+00 SEE SHEET C-601



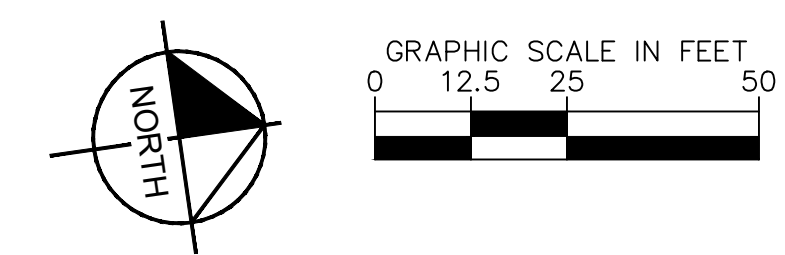
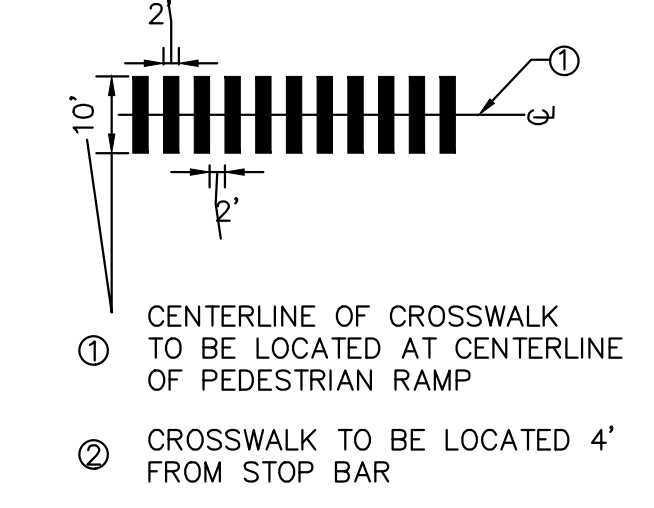
PAVEMENT MARKING LEGEND:

- [A] TYPE B, CLASS I, WHITE, 24" WIDTH
- [B] TYPE B, CLASS I, WHITE, 4" WIDTH
- [C] TYPE B, CLASS I, WHITE, 8" WIDTH
- [D] TYPE B, CLASS I, YELLOW, 4" WIDTH
- [E] TYPE B, CLASS I, WHITE, 4" WIDTH, 2' LONG, 6' SPACE
- [F] TYPE B, CLASS I, WHITE, 4" WIDTH, 3' LONG, 9' SPACE
- [G] TYPE B, CLASS I, WHITE, 4" WIDTH, 10' LONG, 30' SPACE
- [H] TYPE B, CLASS I, YELLOW DOUBLE PAVEMENT LINE MARKING 4" WIDTH, WITH 4" SPACING
- [J] TYPE B, CLASS I, YELLOW DOUBLE PAVEMENT LINE MARKING 4" WIDTH, WITH 4" SPACING, 2' LONG, 6' SPACE
- [K] TYPE B, CLASS I, WHITE PAVEMENT ARROW MARKING OR MESSAGE MARKING, VDOT STD PM-10
- [L] TYPE B, CLASS I, WHITE DOUBLE PAVEMENT LINE MARKING 4" WIDTH, WITH 4" SPACING
- [M] TYPE B, CLASS I, WHITE 2' X 3' YIELD TRIANGLES
- [N] RED METHYL METHACRYLATE (MMA) (BUS LANE)
- [O] TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING 24" WIDTH, WITH 20' SPACING AT 45 DEGREES
- [P] TYPE B, CLASS I, WHITE, 8" WIDTH, 3' LONG, 9' SPACE

SIGN LEGEND:

- [X] REMOVE EXISTING SIGN
 - [⊗] REMOVE AND SALVAGE EXISTING SIGN
 - [—] EXISTING SIGN
 - [+] PROPOSED SIGN
 - [•] BOLLARD
- [#] (EXISTING LOCATION) → [#] (NEW LOCATION) **EXISTING SIGN TO BE REPLACED**
 [#] (EXISTING LOCATION) → [#] (NEW LOCATION) **PROPOSED SIGN**
- SEE SHEET C-615 FOR SIGN LEGEND

HIGH VISIBILITY CROSSWALK:



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

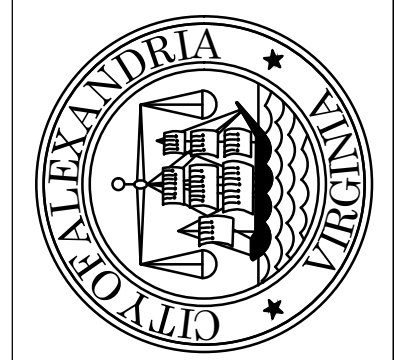
REVISIONS	DESCRIPTION

DATE	BY

ALEXANDRIA PROJECT NO.: 110104122
 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: MAT. DATE: 4/5/24
 DRAWN BY: AUB. DATE: 4/5/24
 CHECKED BY: EJD. DATE: 4/5/24
 APPROVED BY: _____ DATE: _____

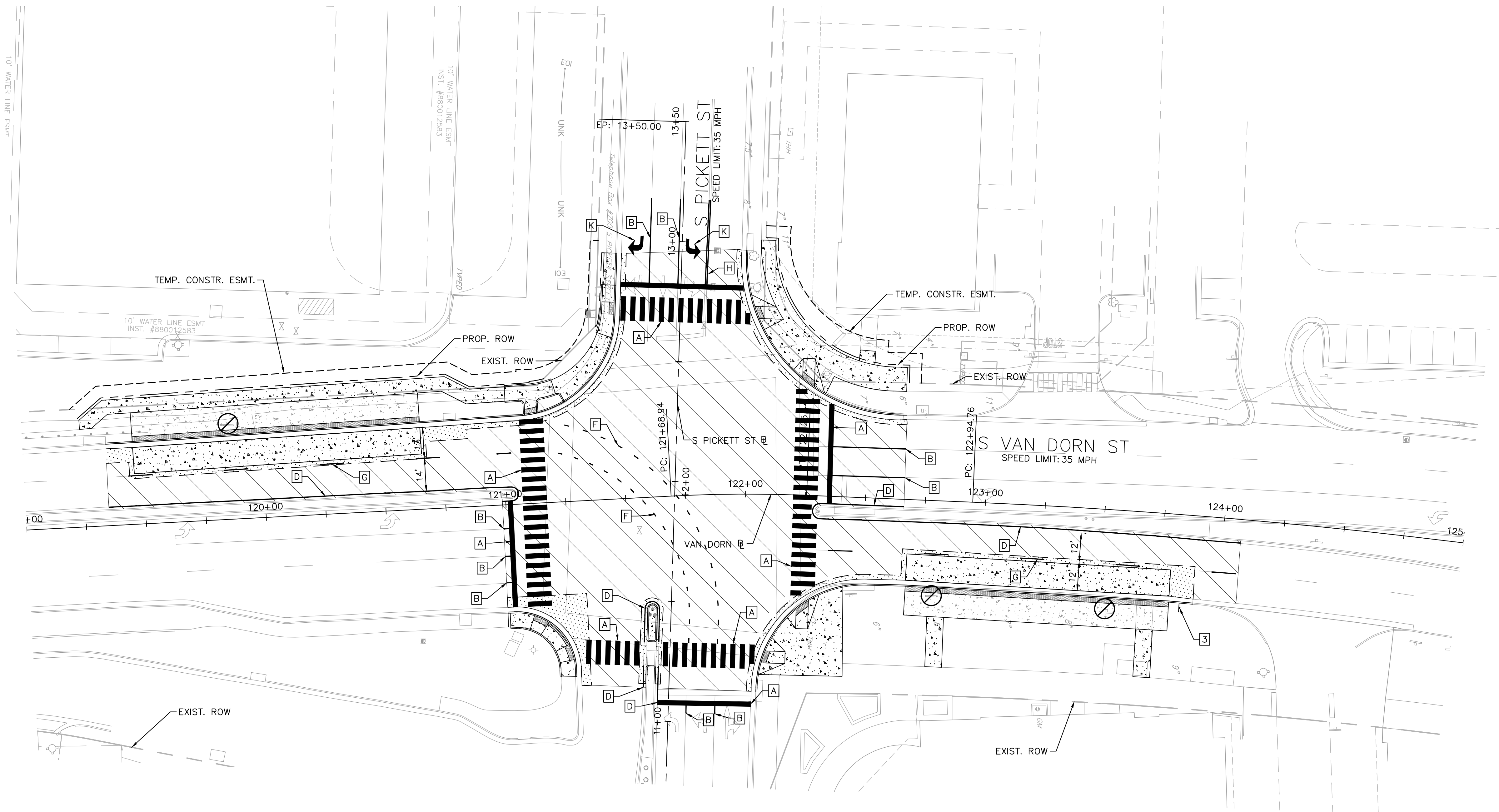
SIGNING AND MARKING PLAN - S VAN DORN STREET AT METRO ROAD

SHEET C-602
 SCALE 1" = 25'



CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

Plotted By: Worring, Megan Sheet Set: West End Transitway - Phase 1 Layout: C-603 SIGNING AND MARKING PLAN August 15, 2024 03:59:58pm K:\NVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\SIGNING AND MARKING PLAN VAN DORN.dwg



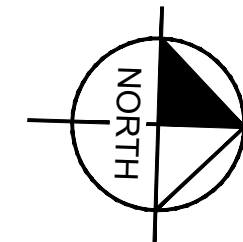
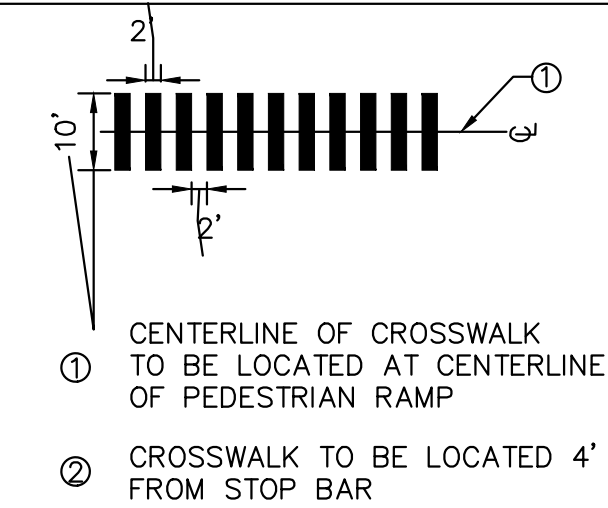
PAVEMENT MARKING LEGEND:

- [A] TYPE B, CLASS I, WHITE, 24" WIDTH
- [B] TYPE B, CLASS I, WHITE, 4" WIDTH
- [C] TYPE B, CLASS I, WHITE, 8" WIDTH
- [D] TYPE B, CLASS I, YELLOW, 4" WIDTH
- [E] TYPE B, CLASS I, WHITE, 4" WIDTH, 2' LONG, 6' SPACE
- [F] TYPE B, CLASS I, WHITE, 4" WIDTH, 3' LONG, 9' SPACE
- [G] TYPE B, CLASS I, WHITE, 4" WIDTH, 10' LONG, 30' SPACE
- [H] TYPE B, CLASS I, YELLOW DOUBLE PAVEMENT LINE MARKING 4" WIDTH, WITH 4" SPACING
- [J] TYPE B, CLASS I, YELLOW DOUBLE PAVEMENT LINE MARKING 4" WIDTH, WITH 4" SPACING, 2' LONG, 6' SPACE
- [K] TYPE B, CLASS I, WHITE PAVEMENT ARROW MARKING OR MESSAGE MARKING, VDOT STD PM-10
- [L] TYPE B, CLASS I, WHITE DOUBLE PAVEMENT LINE MARKING 4" WIDTH, WITH 4" SPACING
- [M] TYPE B, CLASS I, WHITE 2' X 3' YIELD TRIANGLES
- [N] RED METHYL METHACRYLATE (MMA) (BUS LANE)
- [O] TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING 24" WIDTH, WITH 20' SPACING AT 45 DEGREES
- [P] TYPE B, CLASS I, WHITE, 8" WIDTH, 3' LONG, 9' SPACE

SIGN LEGEND:

- [X] REMOVE EXISTING SIGN
 - [⊗] REMOVE AND SALVAGE EXISTING SIGN
 - [—] EXISTING SIGN
 - [+] PROPOSED SIGN
 - [•] BOLLARD
- [#] (EXISTING LOCATION) → [#] (NEW LOCATION) **EXISTING SIGN TO BE REPLACED**
 [#] (EXISTING LOCATION) → [#] (NEW LOCATION) **PROPOSED SIGN**
- SEE SHEET C-615 FOR SIGN LEGEND

HIGH VISIBILITY CROSSWALK:



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

SIGNING AND MARKING PLAN - S VAN DORN STREET AT S PICKETT STREET

SHEET C-603
SCALE 1" = 25'

90% DESIGN PHASE

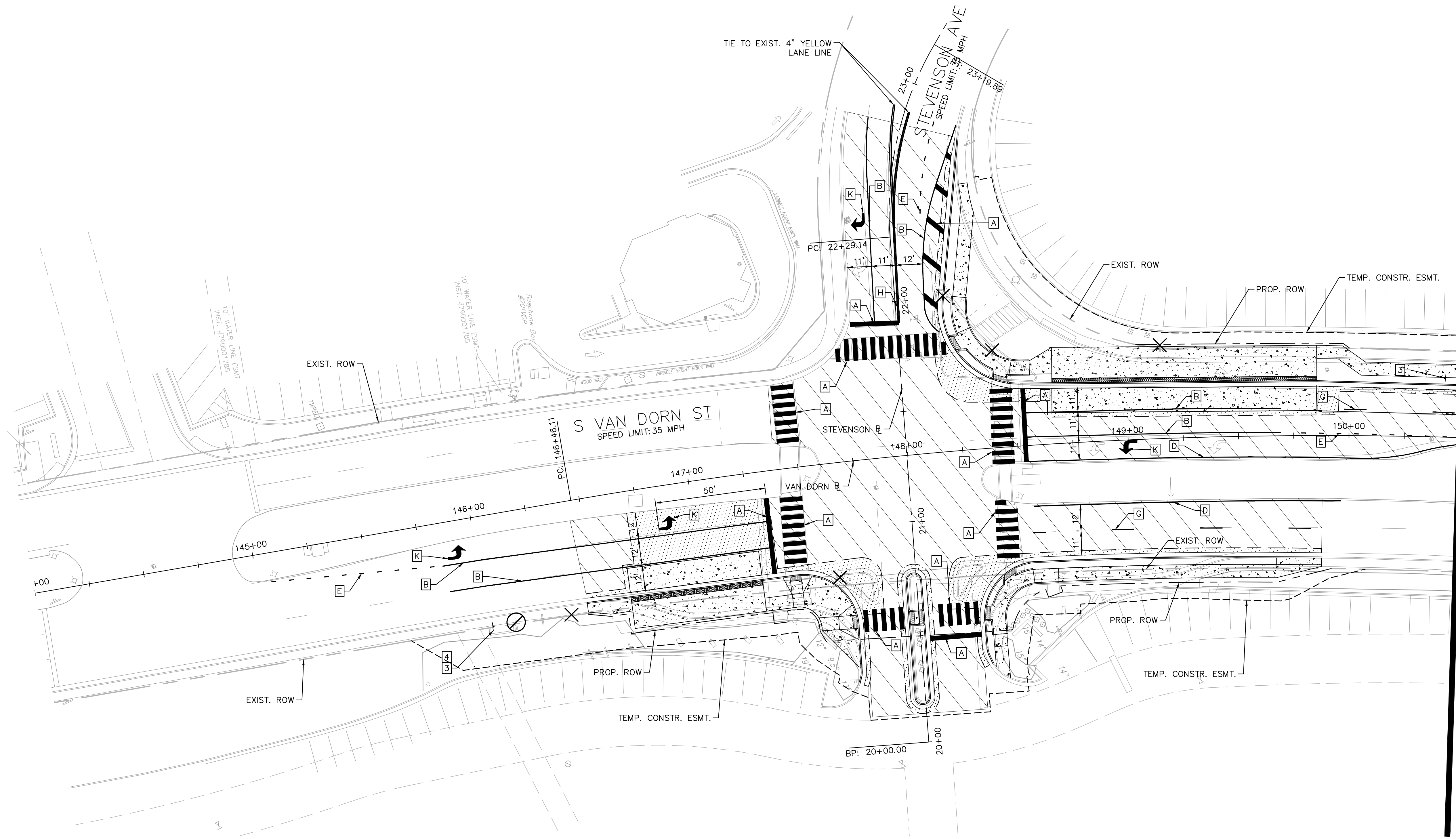


CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

REVISIONS	DATE	DESCRIPTION

ALEXANDRIA PROJECT NO.: 110104122
 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: MAT. DATE: 4/5/24
 DRAWN BY: AUB. DATE: 4/5/24
 CHECKED BY: EJD. DATE: 4/5/24
 APPROVED BY: _____ DATE: _____

Plotted By: Waring, Megan Sheet Set: West End Transitway - Phase 1 Layout: C-604 - SIGNING AND MARKING PLAN August 15, 2024 04:00:05pm K:\NVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\SIGNING AND MARKING PLAN VAN DORN.dwg



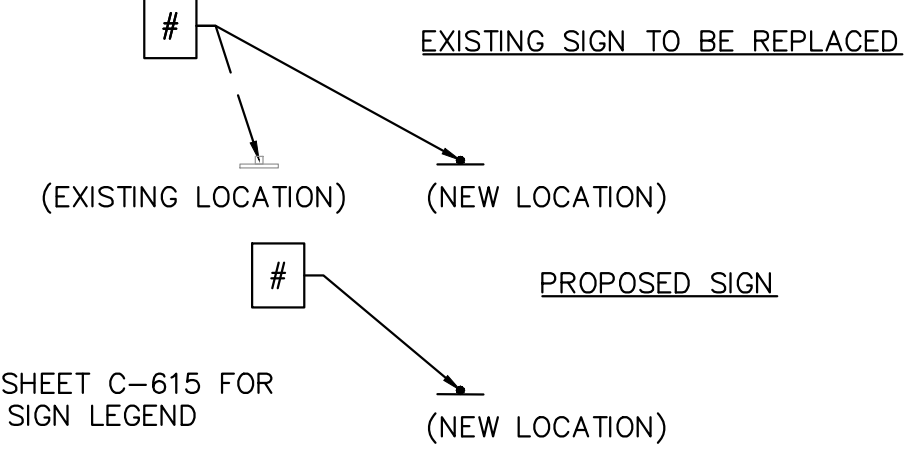
MATCHLINE STA. 150+50 SEE SHEET C-605

PAVEMENT MARKING LEGEND:

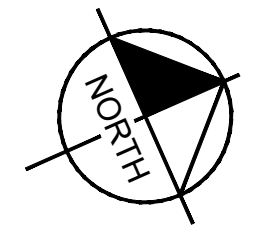
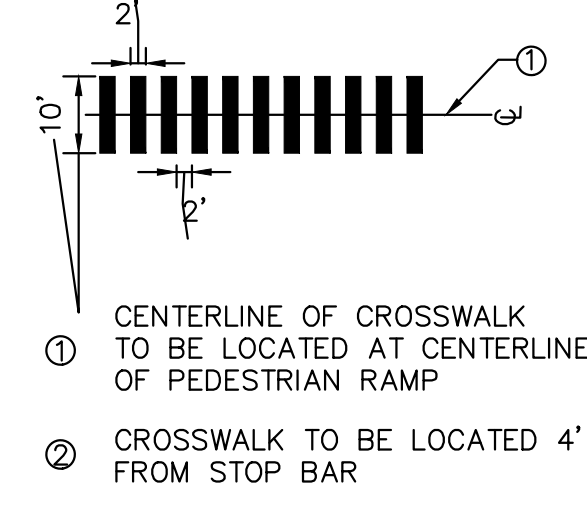
- [A] TYPE B, CLASS I, WHITE, 24" WIDTH
- [B] TYPE B, CLASS I, WHITE, 4" WIDTH
- [C] TYPE B, CLASS I, WHITE, 8" WIDTH
- [D] TYPE B, CLASS I, YELLOW, 4" WIDTH
- [E] TYPE B, CLASS I, WHITE, 4" WIDTH, 2' LONG, 6' SPACE
- [F] TYPE B, CLASS I, WHITE, 4" WIDTH, 3' LONG, 9' SPACE
- [G] TYPE B, CLASS I, WHITE, 4" WIDTH, 10' LONG, 30' SPACE
- [H] TYPE B, CLASS I, YELLOW DOUBLE PAVEMENT LINE MARKING 4" WIDTH, WITH 4" SPACING
- [J] TYPE B, CLASS I, YELLOW DOUBLE PAVEMENT LINE MARKING 4" WIDTH, WITH 4" SPACING, 2' LONG, 6' SPACE
- [K] TYPE B, CLASS I, WHITE PAVEMENT ARROW MARKING OR MESSAGE MARKING, VDOT STD PM-10
- [L] TYPE B, CLASS I, WHITE DOUBLE PAVEMENT LINE MARKING 4" WIDTH, WITH 4" SPACING
- [M] TYPE B, CLASS I, WHITE 2' X 3' YIELD TRIANGLES
- [N] RED METHYL METHACRYLATE (MMA) (BUS LANE)
- [O] TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING 24" WIDTH, WITH 20' SPACING AT 45 DEGREES
- [P] TYPE B, CLASS I, WHITE, 8" WIDTH, 3' LONG, 9' SPACE

SIGN LEGEND:

- [X] REMOVE EXISTING SIGN
- [O] REMOVE AND SALVAGE EXISTING SIGN
- [S] EXISTING SIGN
- [+] PROPOSED SIGN
- [•] BOLLARD



HIGH VISIBILITY CROSSWALK:



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

SIGNING AND MARKING PLAN - S VAN DORN STREET AT STEVENSON AVENUE

SHEET C-604
 SCALE 1" = 25'

90% DESIGN PHASE

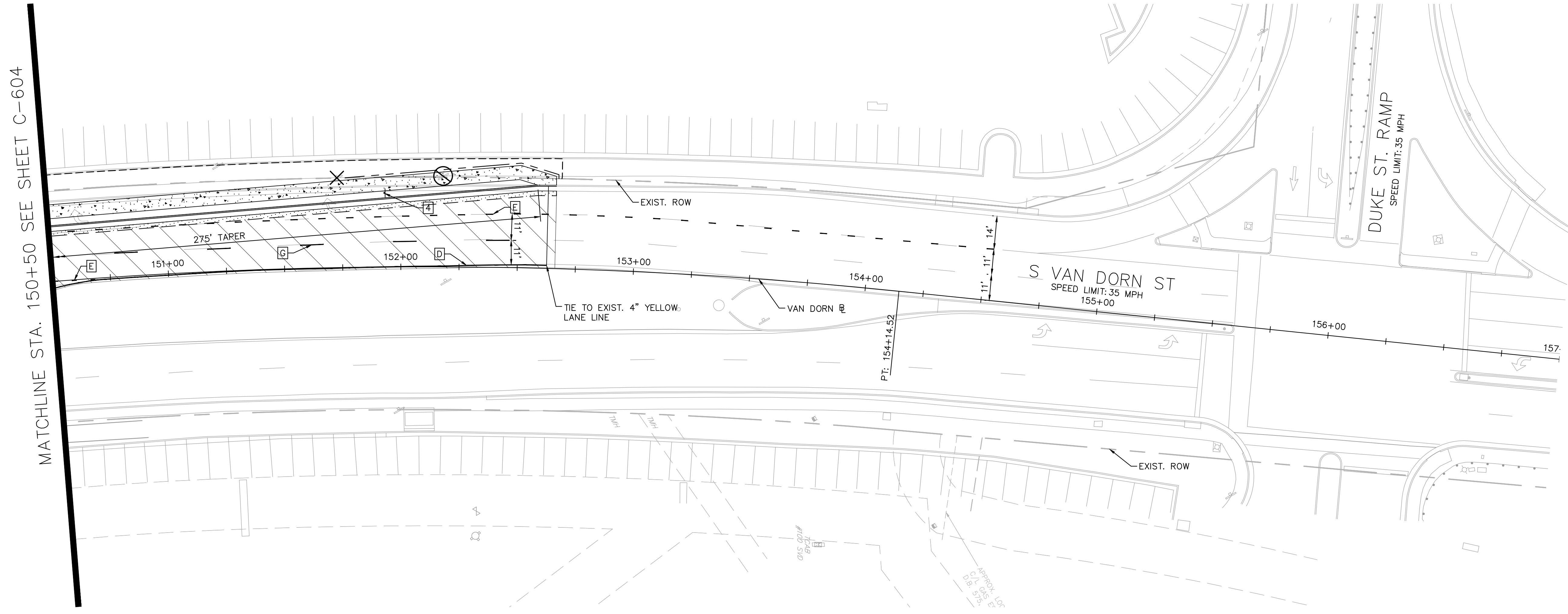


CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

REVISIONS	DATE	DESCRIPTION

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 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: MAT DATE: 4/5/24
 DRAWN BY: AUB DATE: 4/5/24
 CHECKED BY: EJD DATE: 4/5/24
 APPROVED BY: _____ DATE: _____

Plotted By: Waring, Megan Sheet Set: West End Transitway - Phase 1 Layout: C-605 SIGNING AND MARKING PLAN August 15, 2024 04:00:12pm K:\NVA_Transit\10104122_West End Transitway Design\CADD\PlanSheets\SIGNING AND MARKING PLAN VAN DORN.dwg

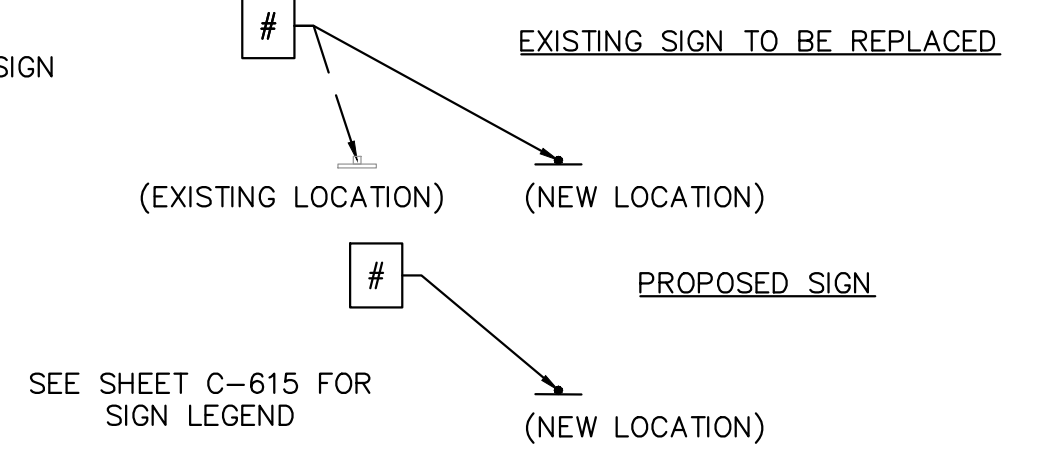


PAVEMENT MARKING LEGEND:

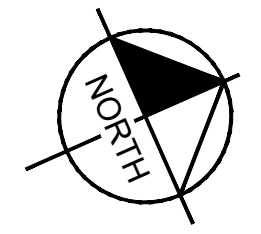
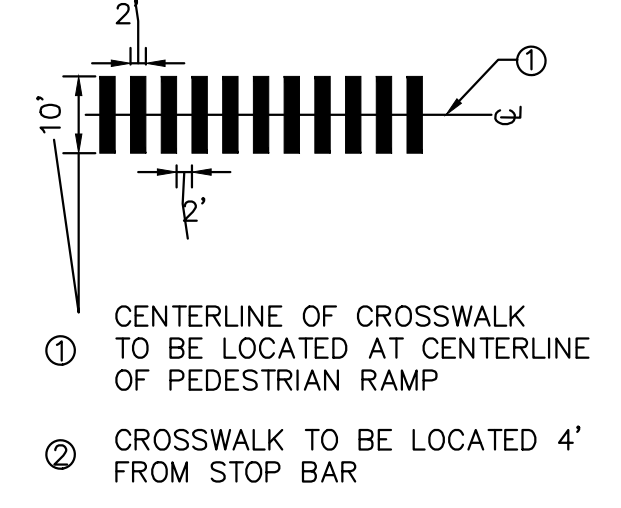
- [A] TYPE B, CLASS I, WHITE, 24" WIDTH
- [B] TYPE B, CLASS I, WHITE, 4" WIDTH
- [C] TYPE B, CLASS I, WHITE, 8" WIDTH
- [D] TYPE B, CLASS I, YELLOW, 4" WIDTH
- [E] TYPE B, CLASS I, WHITE, 4" WIDTH, 2' LONG, 6' SPACE
- [F] TYPE B, CLASS I, WHITE, 4" WIDTH, 3' LONG, 9' SPACE
- [G] TYPE B, CLASS I, WHITE, 4" WIDTH, 10' LONG, 30' SPACE
- [H] TYPE B, CLASS I, YELLOW DOUBLE PAVEMENT LINE MARKING 4" WIDTH, WITH 4" SPACING
- [J] TYPE B, CLASS I, YELLOW DOUBLE PAVEMENT LINE MARKING 4" WIDTH, WITH 4" SPACING, 2' LONG, 6' SPACE
- [K] TYPE B, CLASS I, WHITE PAVEMENT ARROW MARKING OR MESSAGE MARKING, VDOT STD PM-10
- [L] TYPE B, CLASS I, WHITE DOUBLE PAVEMENT LINE MARKING 4" WIDTH, WITH 4" SPACING
- [M] TYPE B, CLASS I, WHITE 2' X 3' YIELD TRIANGLES
- [N] RED METHYL METHACRYLATE (MMA) (BUS LANE)
- [O] TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING 24" WIDTH, WITH 20' SPACING AT 45 DEGREES
- [P] TYPE B, CLASS I, WHITE, 8" WIDTH, 3' LONG, 9' SPACE

SIGN LEGEND:

- [X] REMOVE EXISTING SIGN
- [X with circle] REMOVE AND SALVAGE EXISTING SIGN
- [—] EXISTING SIGN
- [+] PROPOSED SIGN
- [•] BOLLARD



HIGH VISIBILITY CROSSWALK:



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

**SIGNING AND MARKING
 PLAN - S VAN DORN
 STREET AT DUKE
 STREET RAMP**

SHEET
 C-605
 SCALE 1" = 25'

90% DESIGN PHASE

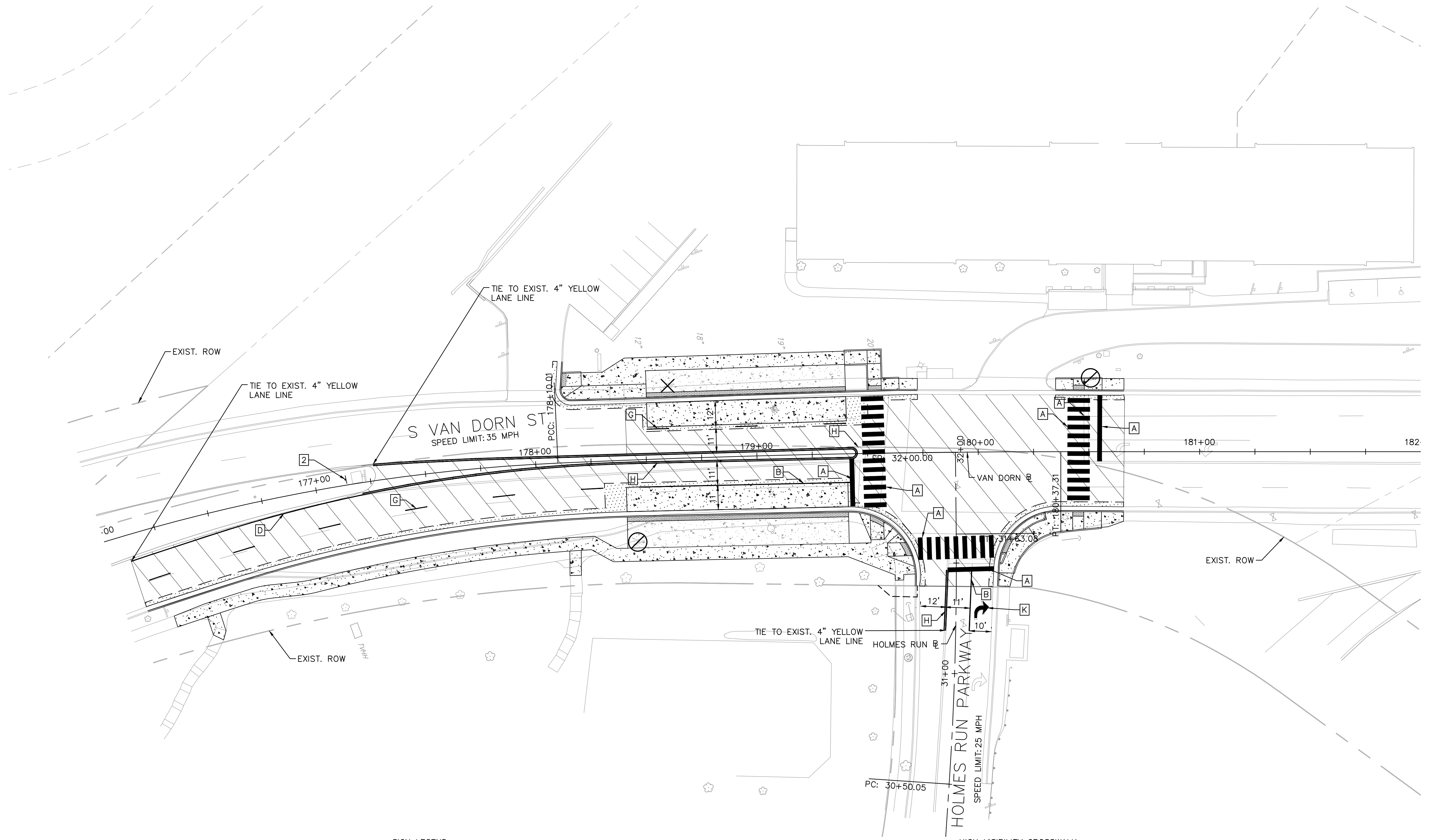


CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

REVISIONS	DESCRIPTION

ALEXANDRIA PROJECT NO.: 110104122	DATE OF PLAN ISSUANCE: N/A
CONSULTANT PROJECT ID: N/A	DESIGNED BY: MAT DATE: 4/5/24
DRAWN BY: [] DATE: 4/5/24	CHECKED BY: [] DATE: 4/5/24
APPROVED BY: [] DATE: []	

Plotted By: Waring, Megan Sheet Set: West End Transitway - Phase 1 Layout: C-606 SIGNING AND MARKING PLAN - August 15, 2024 04:00:19pm K:\NVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\SIGNING AND MARKING PLAN VAN DORN.dwg

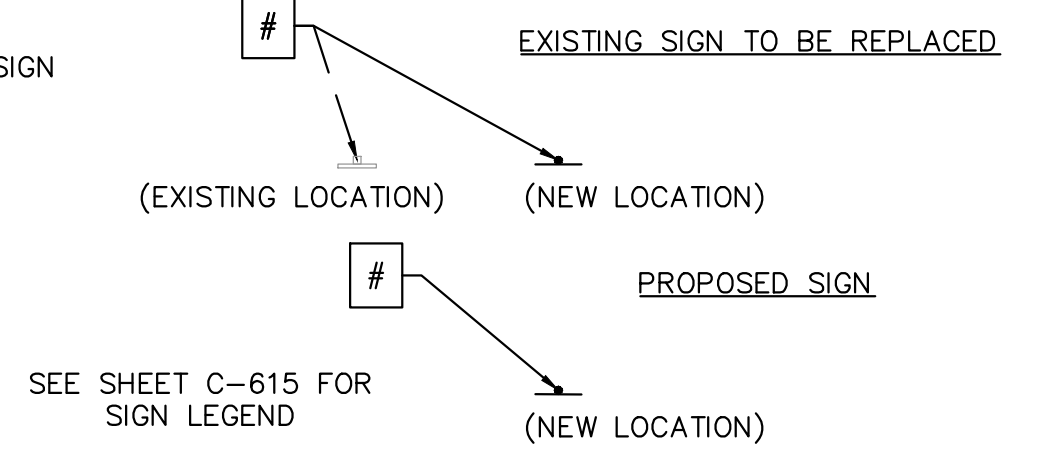


PAVEMENT MARKING LEGEND:

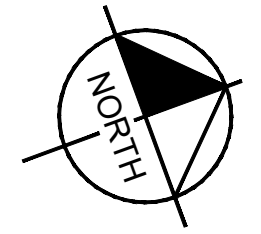
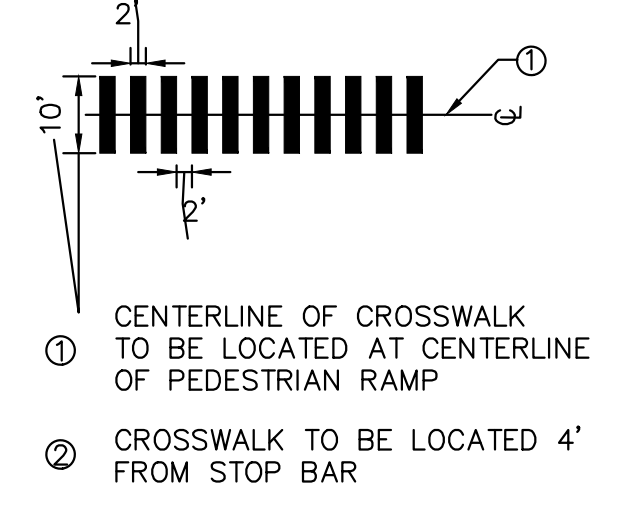
- [A] TYPE B, CLASS I, WHITE, 24" WIDTH
- [B] TYPE B, CLASS I, WHITE, 4" WIDTH
- [C] TYPE B, CLASS I, WHITE, 8" WIDTH
- [D] TYPE B, CLASS I, YELLOW, 4" WIDTH
- [E] TYPE B, CLASS I, WHITE, 4" WIDTH, 2' LONG, 6' SPACE
- [F] TYPE B, CLASS I, WHITE, 4" WIDTH, 3' LONG, 9' SPACE
- [G] TYPE B, CLASS I, WHITE, 4" WIDTH, 10' LONG, 30' SPACE
- [H] TYPE B, CLASS I, YELLOW DOUBLE PAVEMENT LINE MARKING 4" WIDTH, WITH 4" SPACING
- [J] TYPE B, CLASS I, YELLOW DOUBLE PAVEMENT LINE MARKING 4" WIDTH, WITH 4" SPACING, 2' LONG, 6' SPACE
- [K] TYPE B, CLASS I, WHITE PAVEMENT ARROW MARKING OR MESSAGE MARKING, VDOT STD PM-10
- [L] TYPE B, CLASS I, WHITE DOUBLE PAVEMENT LINE MARKING 4" WIDTH, WITH 4" SPACING
- [M] TYPE B, CLASS I, WHITE 2' X 3' YIELD TRIANGLES
- [N] RED METHYL METHACRYLATE (MMA) (BUS LANE)
- [O] TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING 24" WIDTH, WITH 20' SPACING AT 45 DEGREES
- [P] TYPE B, CLASS I, WHITE, 8" WIDTH, 3' LONG, 9' SPACE

SIGN LEGEND:

- [X] REMOVE EXISTING SIGN
- [⊗] REMOVE AND SALVAGE EXISTING SIGN
- [—] EXISTING SIGN
- [+] PROPOSED SIGN
- [•] BOLLARD



HIGH VISIBILITY CROSSWALK:



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

**SIGNING AND MARKING
 PLAN - N VAN DORN
 STREET AT HOLMES RUN
 PARKWAY**

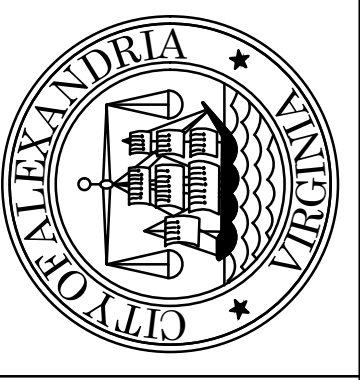
SHEET
 C-606
 SCALE 1" = 25'

90% DESIGN PHASE

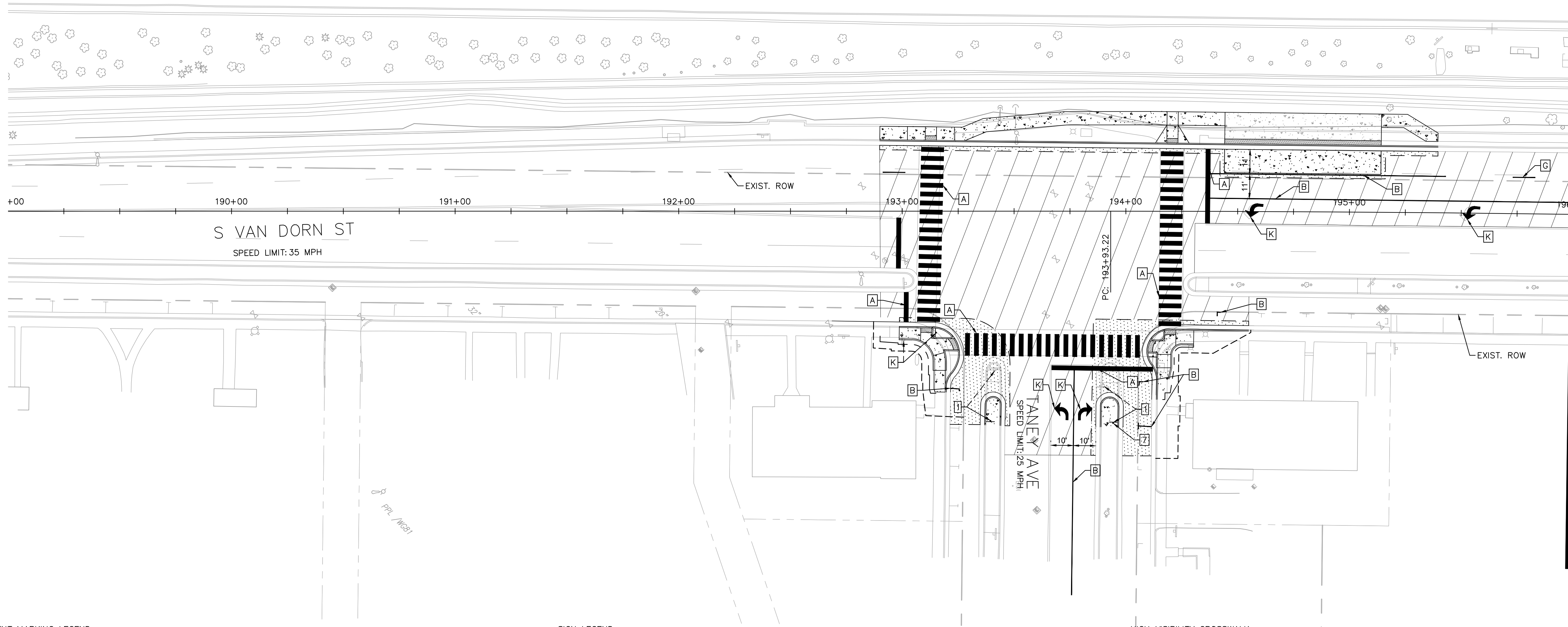
CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

REVISIONS	DATE	DESCRIPTION

ALEXANDRIA PROJECT NO.: 110104122
 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: MAT. DATE: 4/5/24
 DRAWN BY: AUB. DATE: 4/5/24
 CHECKED BY: EJD. DATE: 4/5/24
 APPROVED BY: _____ DATE: _____



Plotted By: Waring, Megan
 Sheet Set: West End Transitway - Phase 1
 Layout: C-607 SIGNING AND MARKING PLAN
 August 15, 2024
 04:00:23pm
 K:\NVA_Transit\110104122_West_End_Transitway_Design\CADD\PlanSheets\SIGNING AND MARKING PLAN_VAN_DORN.dwg

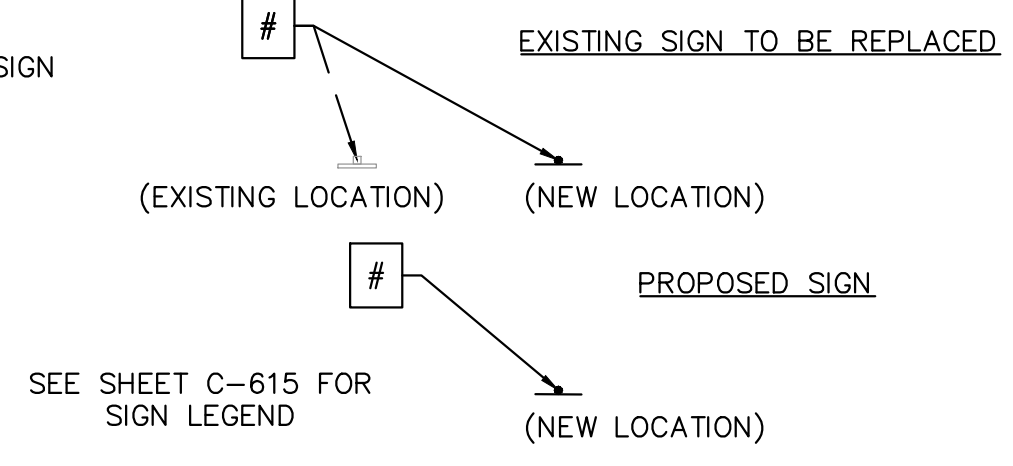


PAVEMENT MARKING LEGEND:

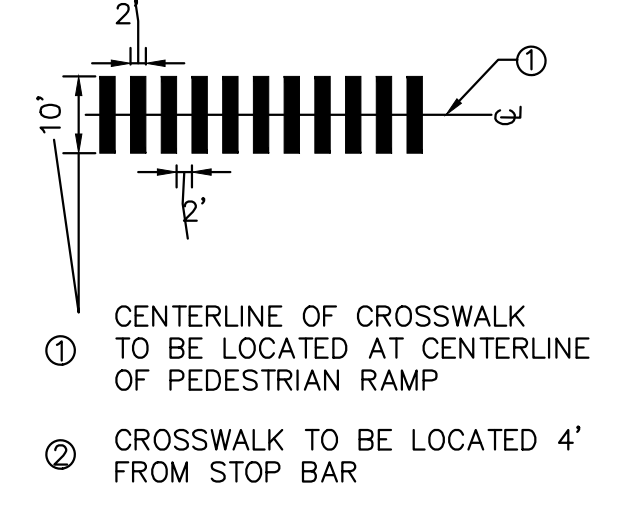
- [A] TYPE B, CLASS I, WHITE, 24" WIDTH
- [B] TYPE B, CLASS I, WHITE, 4" WIDTH
- [C] TYPE B, CLASS I, WHITE, 8" WIDTH
- [D] TYPE B, CLASS I, YELLOW, 4" WIDTH
- [E] TYPE B, CLASS I, WHITE, 4" WIDTH, 2' LONG, 6' SPACE
- [F] TYPE B, CLASS I, WHITE, 4" WIDTH, 3' LONG, 9' SPACE
- [G] TYPE B, CLASS I, WHITE, 4" WIDTH, 10' LONG, 30' SPACE
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- [L] TYPE B, CLASS I, WHITE DOUBLE PAVEMENT LINE MARKING 4" WIDTH, WITH 4" SPACING
- [M] TYPE B, CLASS I, WHITE 2' X 3' YIELD TRIANGLES
- [N] RED METHYL METHACRYLATE (MMA) (BUS LANE)
- [O] TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING 24" WIDTH, WITH 20' SPACING AT 45 DEGREES
- [P] TYPE B, CLASS I, WHITE, 8" WIDTH, 3' LONG, 9' SPACE

SIGN LEGEND:

- [X] REMOVE EXISTING SIGN
- [⊗] REMOVE AND SALVAGE EXISTING SIGN
- [—] EXISTING SIGN
- [+] PROPOSED SIGN
- [•] BOLLARD



HIGH VISIBILITY CROSSWALK:



MATCHLINE STA. 196+00 SEE SHEET C-608

WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

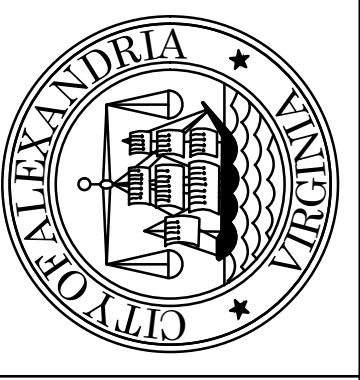
90% DESIGN PHASE

SIGNING AND MARKING
 PLAN - N VAN DORN
 STREET AT TANEY
 AVENUE

REVISIONS	DATE	DESCRIPTION

ALEXANDRIA PROJECT NO.: 110104122
 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: MAT. DATE: 4/5/24
 DRAWN BY: AUB. DATE: 4/5/24
 CHECKED BY: EJD. DATE: 4/5/24
 APPROVED BY: _____ DATE: _____

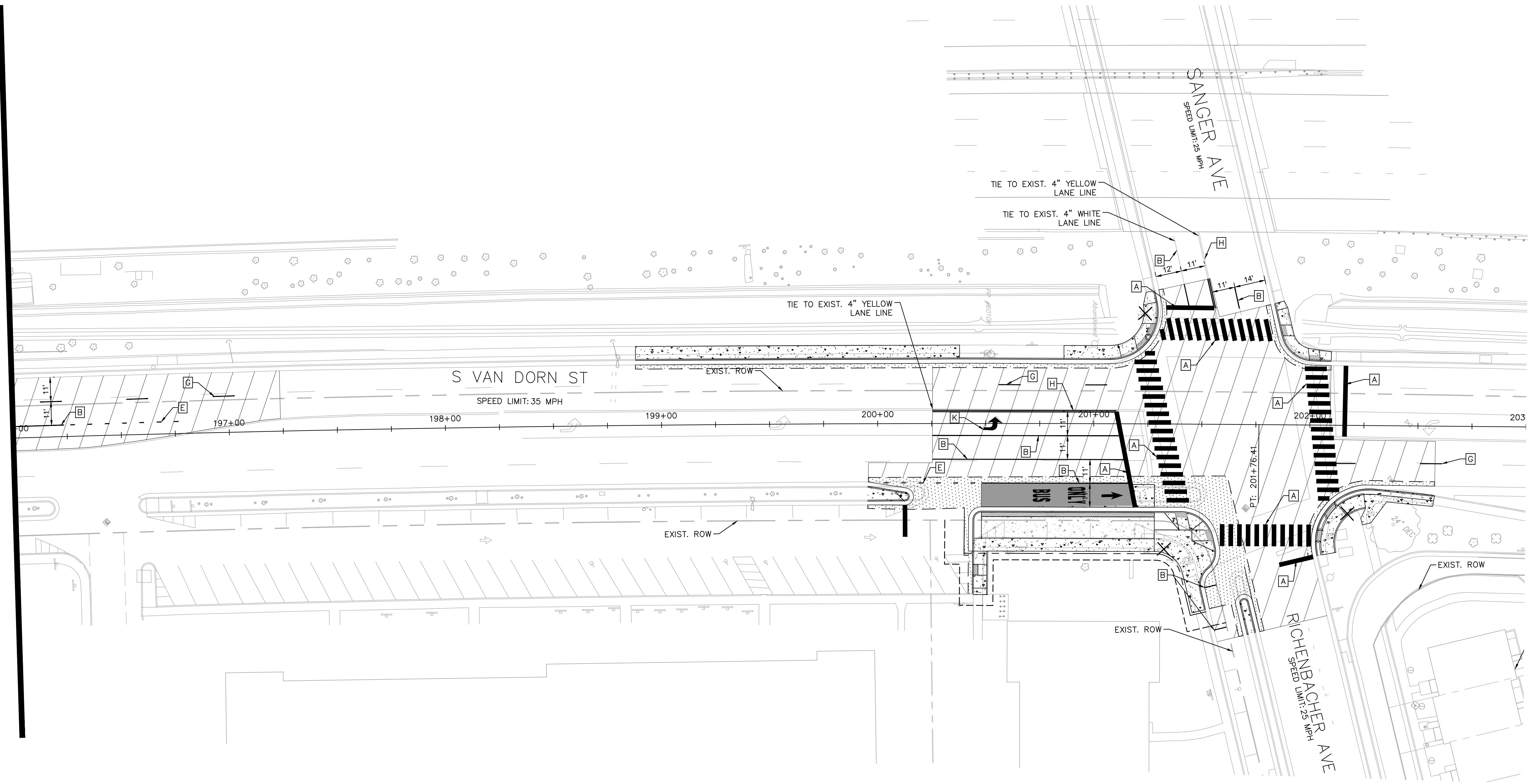
SHEET
 C-607
 SCALE 1" = 25'



CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

Plotted By: Waring, Megan | Sheet Set: West End Transitway - Phase 1 | Layout: C-608 SIGNING AND MARKING PLAN - August 15, 2024 | 04:00:32pm | K:\NVA_Transit\10104122_West End Transitway Design\CADD\PlanSheets\SIGNING AND MARKING PLAN_VAN DORN.dwg

MATCHLINE STA. 196+00 SEE SHEET C-607

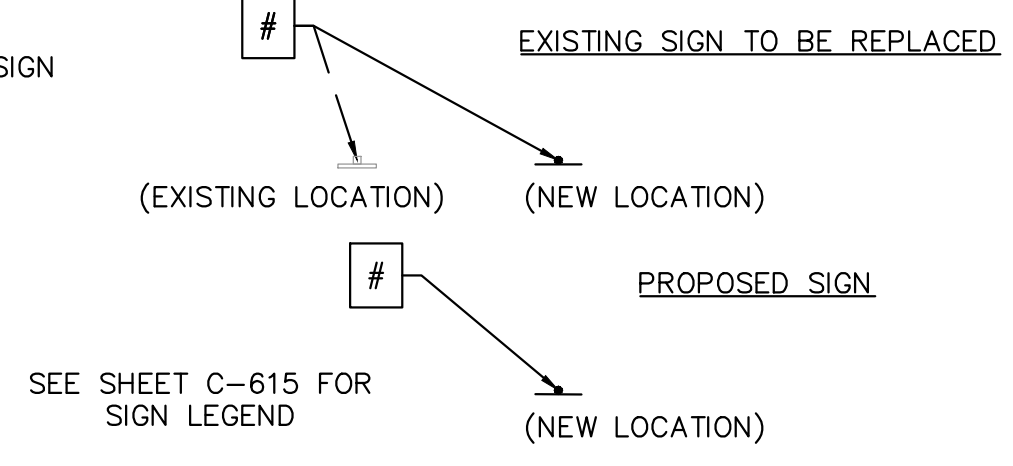


PAVEMENT MARKING LEGEND:

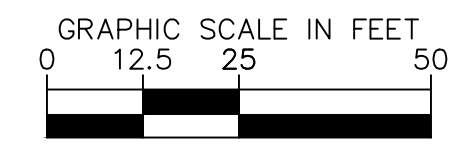
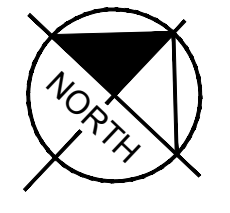
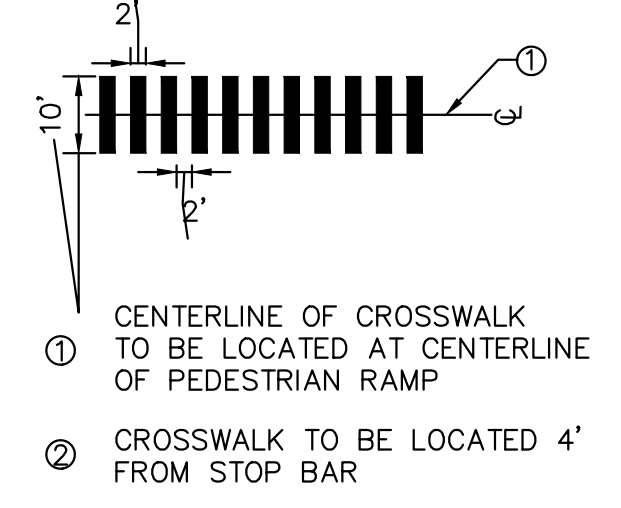
- [A] TYPE B, CLASS I, WHITE, 24" WIDTH
- [B] TYPE B, CLASS I, WHITE, 4" WIDTH
- [C] TYPE B, CLASS I, WHITE, 8" WIDTH
- [D] TYPE B, CLASS I, YELLOW, 4" WIDTH
- [E] TYPE B, CLASS I, WHITE, 4" WIDTH, 2' LONG, 6' SPACE
- [F] TYPE B, CLASS I, WHITE, 4" WIDTH, 3' LONG, 9' SPACE
- [G] TYPE B, CLASS I, WHITE, 4" WIDTH, 10' LONG, 30' SPACE
- [H] TYPE B, CLASS I, YELLOW DOUBLE PAVEMENT LINE MARKING 4" WIDTH, WITH 4" SPACING
- [J] TYPE B, CLASS I, YELLOW DOUBLE PAVEMENT LINE MARKING 4" WIDTH, WITH 4" SPACING, 2' LONG, 6' SPACE
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- [L] TYPE B, CLASS I, WHITE DOUBLE PAVEMENT LINE MARKING 4" WIDTH, WITH 4" SPACING
- [M] TYPE B, CLASS I, WHITE 2' X 3' YIELD TRIANGLES
- [N] RED METHYL METHACRYLATE (MMA) (BUS LANE)
- [O] TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING 24" WIDTH, WITH 20' SPACING AT 45 DEGREES
- [P] TYPE B, CLASS I, WHITE, 8" WIDTH, 3' LONG, 9' SPACE

SIGN LEGEND:

- [X] REMOVE EXISTING SIGN
- [⊗] REMOVE AND SALVAGE EXISTING SIGN
- [—] EXISTING SIGN
- [+] PROPOSED SIGN
- [•] BOLLARD



HIGH VISIBILITY CROSSWALK:

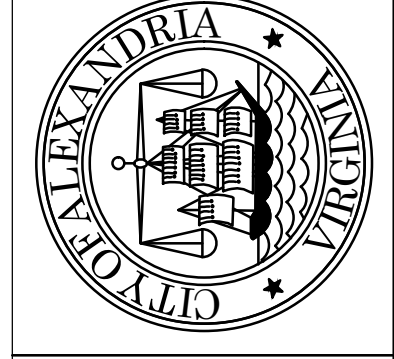


WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

SIGNING AND MARKING PLAN - N VAN DORN STREET AT SANGER AVENUE

SHEET C-608
 SCALE 1" = 25'

90% DESIGN PHASE

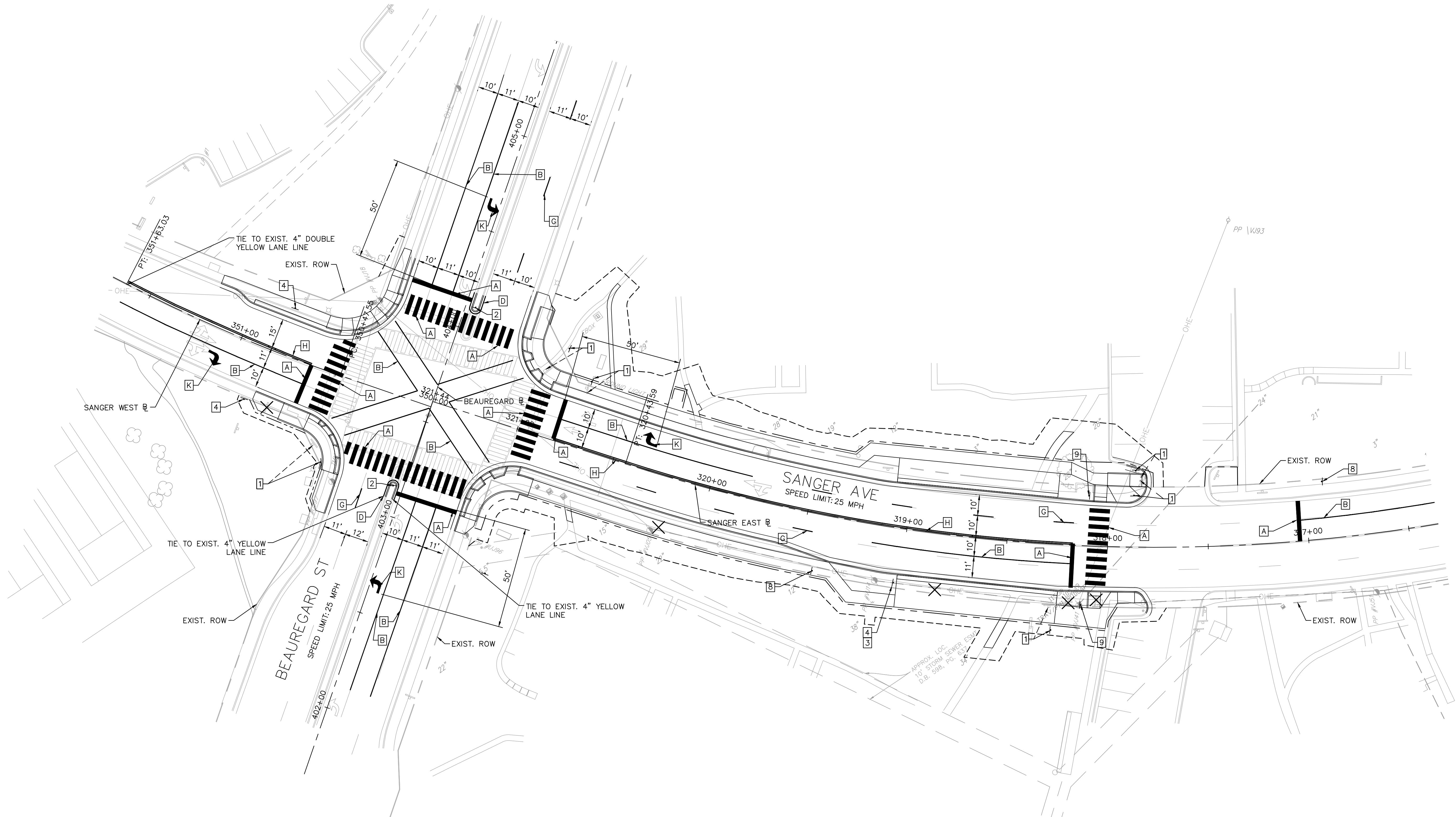


CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

REVISIONS	DESCRIPTION
DATE	
BY	
DATE	
BY	
DATE	
BY	
DATE	
BY	

ALEXANDRIA PROJECT NO.: 110104122
 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: MAT DATE: 4/5/24
 DRAWN BY: AUB DATE: 4/5/24
 CHECKED BY: EJD DATE: 4/5/24
 APPROVED BY: _____ DATE: _____

Plotted By: Worjig, Megan Sheet Set: West End Transitway - Phase 1 Layout: C-609 SIGNING AND MARKING PLAN August 15, 2024 04:01:09pm K:\NVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\SIGNING AND MARKING PLAN BEAUREGARD.dwg



PAVEMENT MARKING LEGEND:

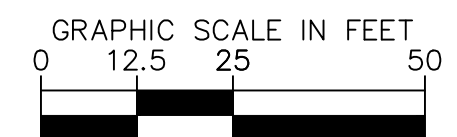
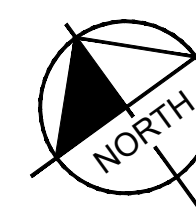
- [A] TYPE B, CLASS I, WHITE, 24" WIDTH
- [B] TYPE B, CLASS I, WHITE, 4" WIDTH
- [C] TYPE B, CLASS I, WHITE, 8" WIDTH
- [D] TYPE B, CLASS I, YELLOW, 4" WIDTH
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- [F] TYPE B, CLASS I, WHITE, 4" WIDTH, 3' LONG, 9' SPACE
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- [L] TYPE B, CLASS I, WHITE DOUBLE PAVEMENT LINE MARKING 4" WIDTH, WITH 4" SPACING
- [M] TYPE B, CLASS I, WHITE 2' X 3' YIELD TRIANGLES
- [N] RED METHYL METHACRYLATE (MMA) (BUS LANE)
- [O] TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING 24" WIDTH, WITH 20' SPACING AT 45 DEGREES
- [P] TYPE B, CLASS I, WHITE, 8" WIDTH, 3' LONG, 9' SPACE

SIGN LEGEND:

- REMOVE EXISTING SIGN
 - REMOVE AND SALVAGE EXISTING SIGN
 - EXISTING SIGN
 - PROPOSED SIGN
 - BOLLARD
- EXISTING SIGN TO BE REPLACED
 (EXISTING LOCATION) (NEW LOCATION)
- PROPOSED SIGN
 (NEW LOCATION)
- SEE SHEET C-615 FOR SIGN LEGEND

HIGH VISIBILITY CROSSWALK:

-
- ① CENTERLINE OF CROSSWALK TO BE LOCATED AT CENTERLINE OF PEDESTRIAN RAMP
 - ② CROSSWALK TO BE LOCATED 4' FROM STOP BAR



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

SIGNING AND MARKING PLAN - N BEAUREGARD STREET AT SANGER AVENUE

SHEET C-609
 SCALE 1" = 25'

90% DESIGN PHASE

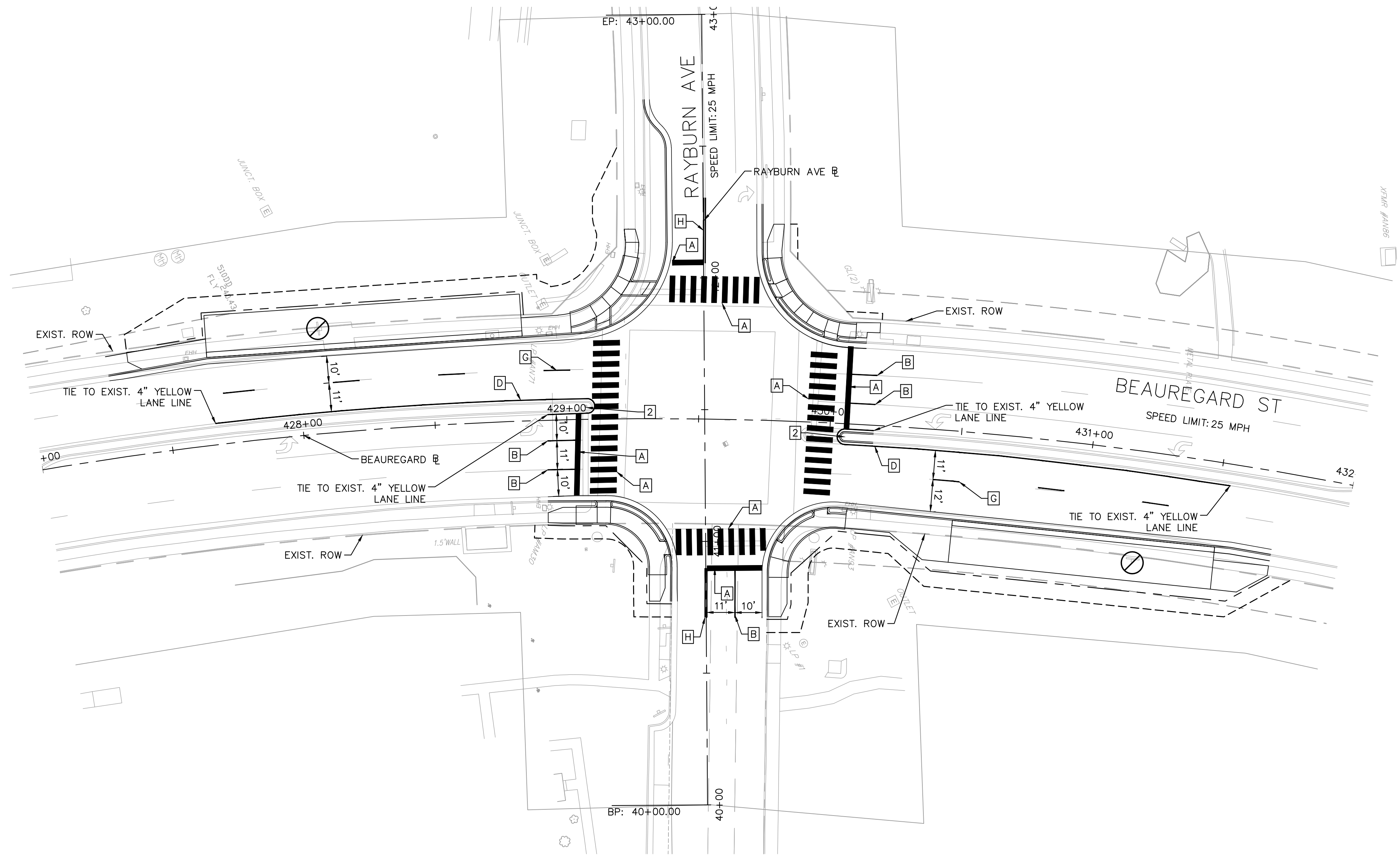
CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

REVISIONS	DESCRIPTION
DATE	BY

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 DRAWN BY: AUB DATE: 4/5/24
 CHECKED BY: EJD DATE: 4/5/24
 APPROVED BY: _____ DATE: _____



Plotted By: Worlog, Megan Sheet Set: West End Transitway - Phase 1 Signing and Marking Plan August 15, 2024 04:01:16pm K:\VVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\SIGNING AND MARKING PLAN BEAUREGARD.dwg



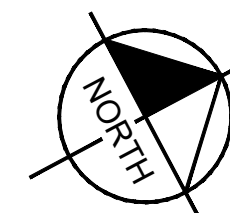
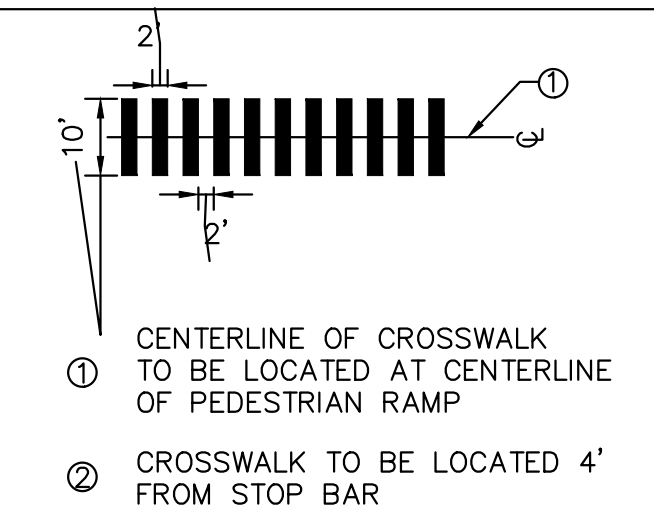
PAVEMENT MARKING LEGEND:

- [A] TYPE B, CLASS I, WHITE, 24" WIDTH
- [B] TYPE B, CLASS I, WHITE, 4" WIDTH
- [C] TYPE B, CLASS I, WHITE, 8" WIDTH
- [D] TYPE B, CLASS I, YELLOW, 4" WIDTH
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- [G] TYPE B, CLASS I, WHITE, 4" WIDTH, 10' LONG, 30' SPACE
- [H] TYPE B, CLASS I, YELLOW DOUBLE PAVEMENT LINE MARKING 4" WIDTH, WITH 4" SPACING
- [J] TYPE B, CLASS I, YELLOW DOUBLE PAVEMENT LINE MARKING 4" WIDTH, WITH 4" SPACING, 2' LONG, 6' SPACE
- [K] TYPE B, CLASS I, WHITE PAVEMENT ARROW MARKING OR MESSAGE MARKING, VDOT STD PM-10
- [L] TYPE B, CLASS I, WHITE DOUBLE PAVEMENT LINE MARKING 4" WIDTH, WITH 4" SPACING
- [M] TYPE B, CLASS I, WHITE 2' X 3' YIELD TRIANGLES
- [N] RED METHYL METHACRYLATE (MMA) (BUS LANE)
- [O] TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING 24" WIDTH, WITH 20' SPACING AT 45 DEGREES
- [P] TYPE B, CLASS I, WHITE, 8" WIDTH, 3' LONG, 9' SPACE

SIGN LEGEND:

- REMOVE EXISTING SIGN
 - REMOVE AND SALVAGE EXISTING SIGN
 - EXISTING SIGN
 - PROPOSED SIGN
 - BOLLARD
- EXISTING SIGN TO BE REPLACED
 (EXISTING LOCATION) (NEW LOCATION)
- PROPOSED SIGN
 (NEW LOCATION)
- SEE SHEET C-615 FOR SIGN LEGEND

HIGH VISIBILITY CROSSWALK:



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

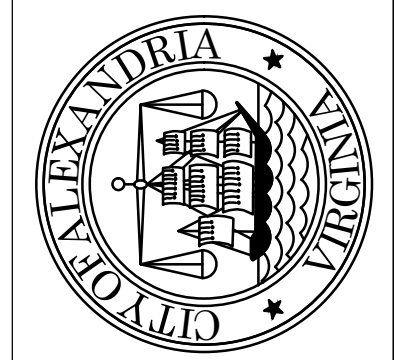
SIGNING AND MARKING PLAN - N BEAUREGARD STREET AT RAYBURN AVENUE

SHEET C-611
 SCALE 1" = 25'

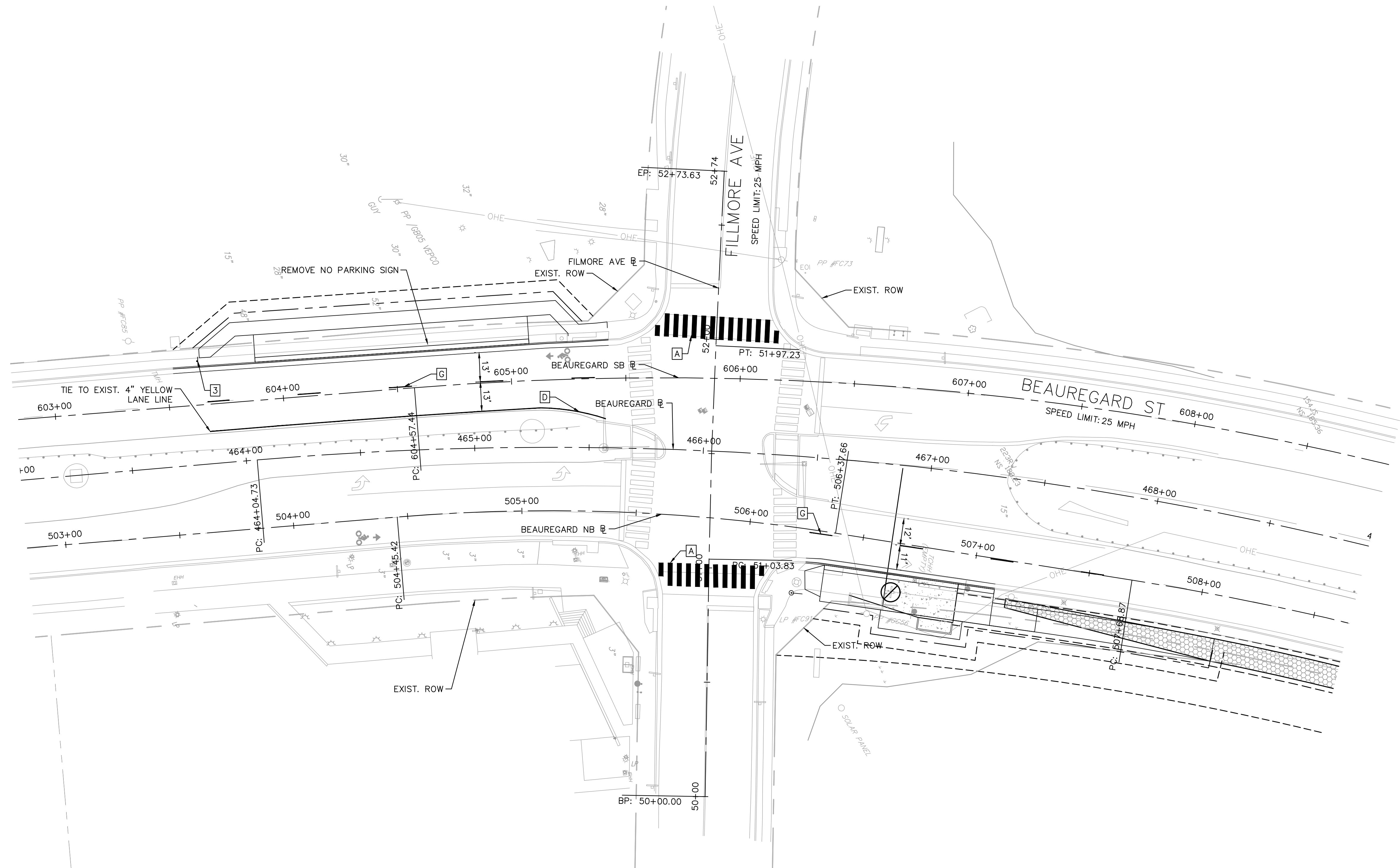
ALEXANDRIA PROJECT NO.:	110104122
DATE OF PLAN ISSUANCE:	N/A
CONSULTANT PROJECT ID.:	N/A
DESIGNED BY:	MAT. DATE: 4/5/24
DRAWN BY:	AJB. DATE: 4/5/24
CHECKED BY:	ED. DATE: 4/5/24
APPROVED BY:	DATE:

REVISIONS	DESCRIPTION

CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313



Plotted By: Worlog, Megan Sheet Set: West End Transitway - Phase 1 Layout: C-612 SIGNING AND MARKING PLAN August 15, 2024 04:01:23pm K:\NVA_Transit\10104122_West End Transitway Design\CADD\PlanSheets\SIGNING AND MARKING PLAN BEAUREGARD.dwg

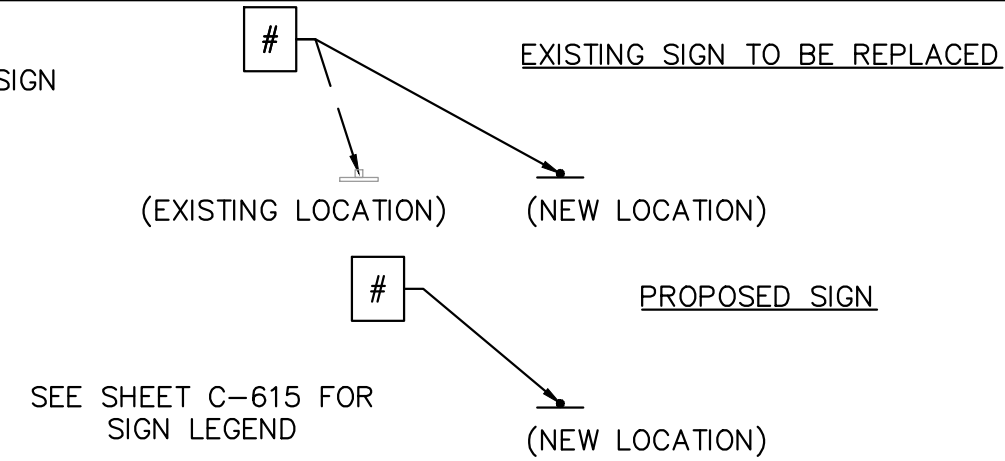


PAVEMENT MARKING LEGEND:

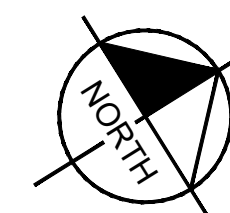
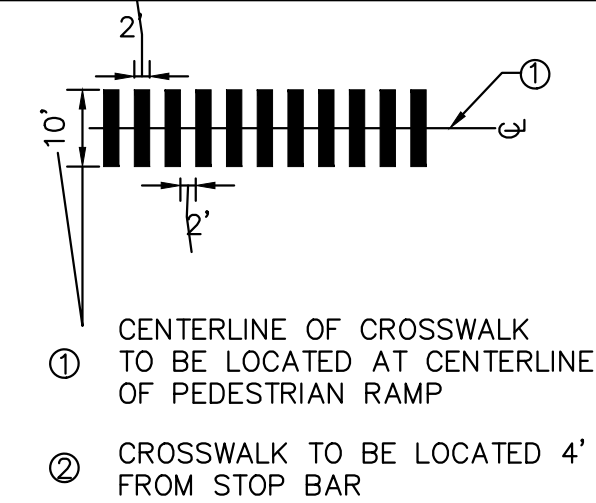
- [A] TYPE B, CLASS I, WHITE, 24" WIDTH
- [B] TYPE B, CLASS I, WHITE, 4" WIDTH
- [C] TYPE B, CLASS I, WHITE, 8" WIDTH
- [D] TYPE B, CLASS I, YELLOW, 4" WIDTH
- [E] TYPE B, CLASS I, WHITE, 4" WIDTH, 2' LONG, 6' SPACE
- [F] TYPE B, CLASS I, WHITE, 4" WIDTH, 3' LONG, 9' SPACE
- [G] TYPE B, CLASS I, WHITE, 4" WIDTH, 10' LONG, 30' SPACE
- [H] TYPE B, CLASS I, YELLOW DOUBLE PAVEMENT LINE MARKING 4" WIDTH, WITH 4" SPACING
- [J] TYPE B, CLASS I, YELLOW DOUBLE PAVEMENT LINE MARKING 4" WIDTH, WITH 4" SPACING, 2' LONG, 6' SPACE
- [K] TYPE B, CLASS I, WHITE PAVEMENT ARROW MARKING OR MESSAGE MARKING, VDOT STD PM-10
- [L] TYPE B, CLASS I, WHITE DOUBLE PAVEMENT LINE MARKING 4" WIDTH, WITH 4" SPACING
- [M] TYPE B, CLASS I, WHITE 2' X 3' YIELD TRIANGLES
- [N] RED METHYL METHACRYLATE (MMA) (BUS LANE)
- [O] TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING 24" WIDTH, WITH 20' SPACING AT 45 DEGREES
- [P] TYPE B, CLASS I, WHITE, 8" WIDTH, 3' LONG, 9' SPACE

SIGN LEGEND:

- REMOVE EXISTING SIGN
- REMOVE AND SALVAGE EXISTING SIGN
- EXISTING SIGN
- PROPOSED SIGN
- BOLLARD



HIGH VISIBILITY CROSSWALK:

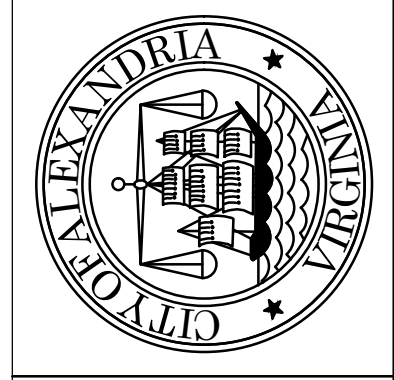


WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

SIGNING AND MARKING PLAN - N BEAUREGARD STREET AT FILLMORE AVENUE

SHEET C-612
SCALE 1" = 25'

90% DESIGN PHASE

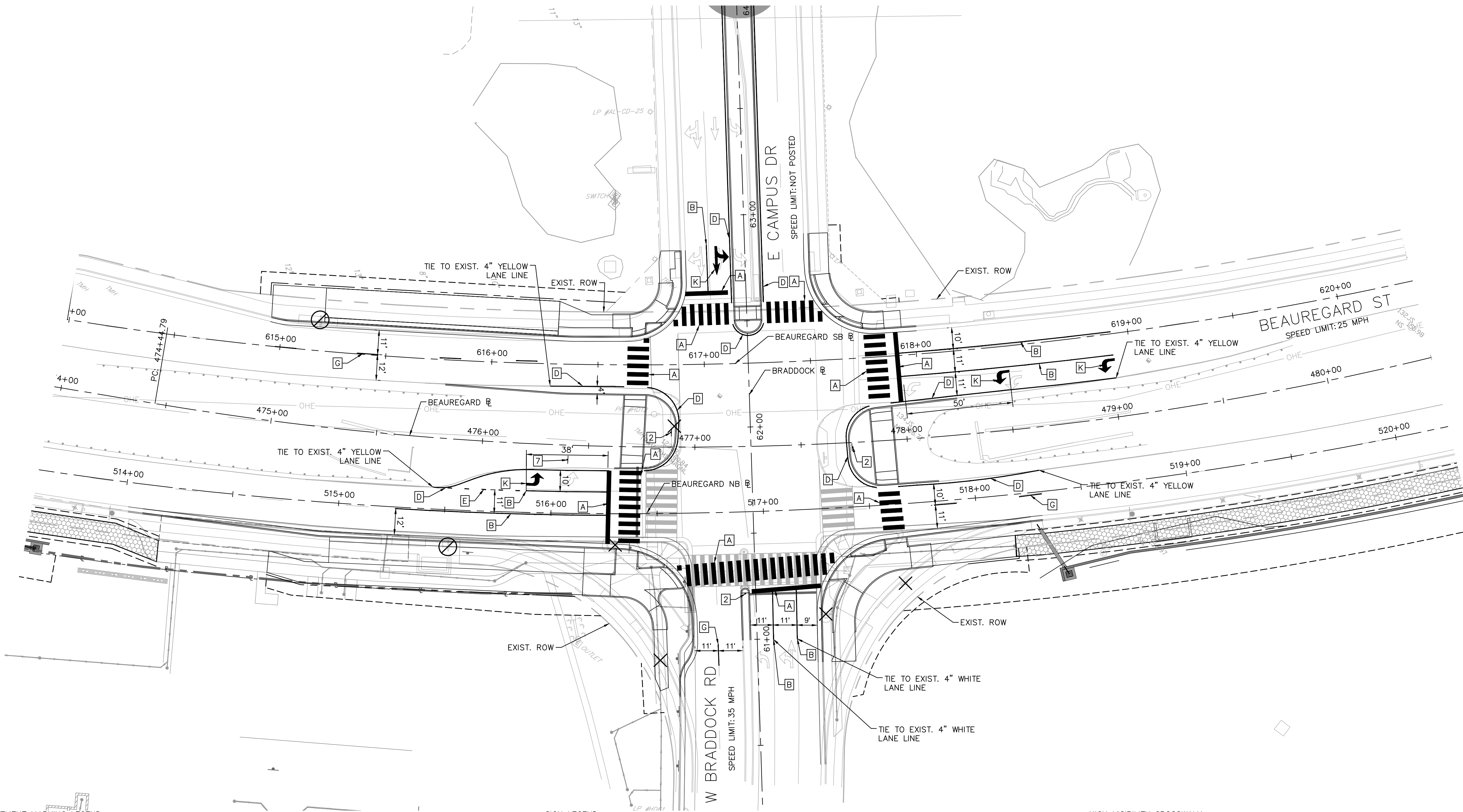


CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

REVISIONS	DESCRIPTION
DATE	
BY	

ALEXANDRIA PROJECT NO.:	110104122
DATE OF PLAN ISSUANCE:	N/A
CONSULTANT PROJECT ID.:	N/A
DESIGNED BY:	MAT. DATE: 4/5/24
DRAWN BY:	AUB. DATE: 4/5/24
CHECKED BY:	EJD. DATE: 4/5/24
APPROVED BY:	DATE:

Plotted By: Graybill, Sydney Sheet Set: West End Transitway - Phase 1 Layout: C-613 SIGNING AND MARKING PLAN September 03, 2024 03:35:08pm K:\NVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\SIGNING AND MARKING PLAN BEAUREGARD.dwg

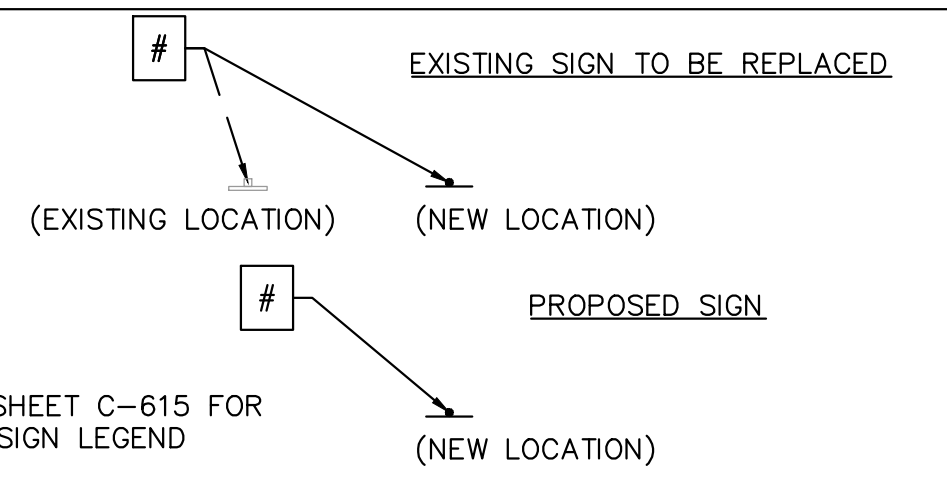


PAVEMENT MARKING LEGEND:

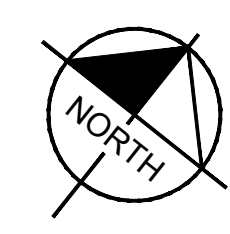
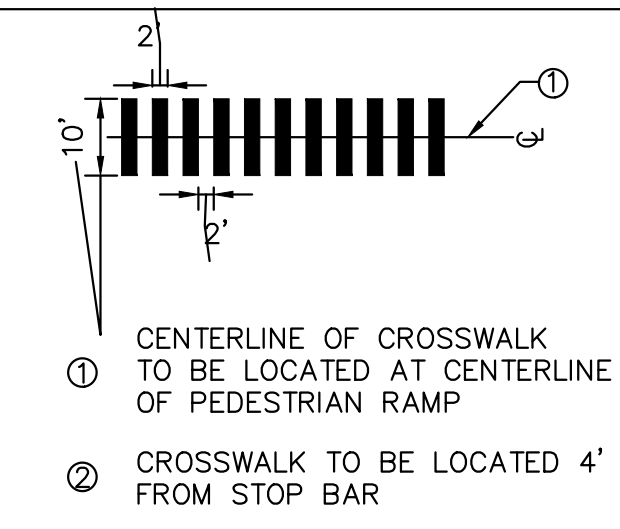
- A TYPE B, CLASS I, WHITE, 24" WIDTH
- B TYPE B, CLASS I, WHITE, 4" WIDTH
- C TYPE B, CLASS I, WHITE, 8" WIDTH
- D TYPE B, CLASS I, YELLOW, 4" WIDTH
- E TYPE B, CLASS I, WHITE, 4" WIDTH, 2' LONG, 6' SPACE
- F TYPE B, CLASS I, WHITE, 4" WIDTH, 3' LONG, 9' SPACE
- G TYPE B, CLASS I, WHITE, 4" WIDTH, 10' LONG, 30' SPACE
- H TYPE B, CLASS I, YELLOW DOUBLE PAVEMENT LINE MARKING 4" WIDTH, WITH 4" SPACING
- J TYPE B, CLASS I, YELLOW DOUBLE PAVEMENT LINE MARKING 4" WIDTH, WITH 4" SPACING, 2' LONG, 6' SPACE
- K TYPE B, CLASS I, WHITE PAVEMENT ARROW MARKING OR MESSAGE MARKING, VDOT STD PM-10
- L TYPE B, CLASS I, WHITE DOUBLE PAVEMENT LINE MARKING 4" WIDTH, WITH 4" SPACING
- M TYPE B, CLASS I, WHITE 2' X 3' YIELD TRIANGLES
- N RED METHYL METHACRYLATE (MMA) (BUS LANE)
- O TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING 24" WIDTH, WITH 20' SPACING AT 45 DEGREES
- P TYPE B, CLASS I, WHITE, 8" WIDTH, 3' LONG, 9' SPACE

SIGN LEGEND:

- REMOVE EXISTING SIGN
- REMOVE AND SALVAGE EXISTING SIGN
- EXISTING SIGN
- PROPOSED SIGN
- BOLLARD



HIGH VISIBILITY CROSSWALK:

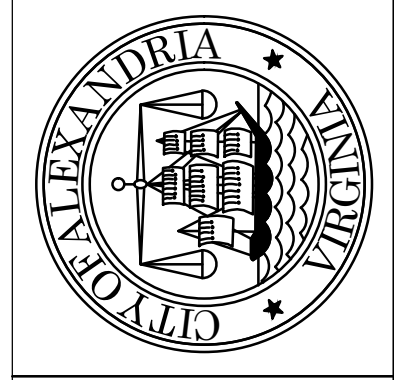


WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

SIGNING AND MARKING PLAN - N BEAUREGARD STREET AT W BRADDOCK ROAD

SHEET C-613
 SCALE 1" = 25'

90% DESIGN PHASE

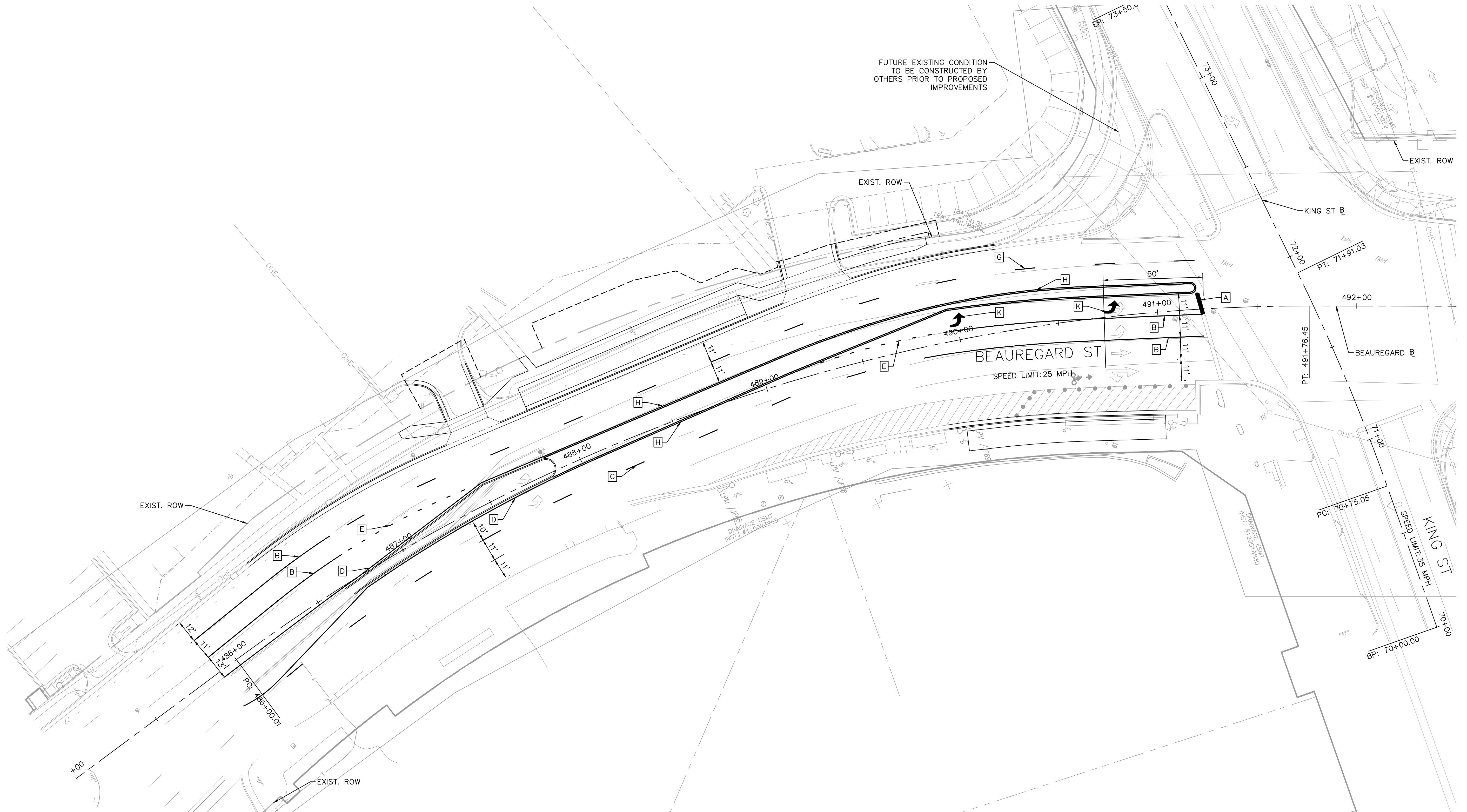


CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

REVISIONS	DESCRIPTION
DATE	BY

ALEXANDRIA PROJECT NO.: 110104122
 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: MAT. DATE: 4/5/24
 DRAWN BY: AUB. DATE: 4/5/24
 CHECKED BY: EJD. DATE: 4/5/24
 APPROVED BY: _____ DATE: _____

Plotted By: Worring, Megan Sheet Set: West End Transitway - Phase 1 Signing and Marking Plan August 15, 2024 04:01:36pm K:\NVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\Signing and Marking Plan BEAUREGARD.dwg

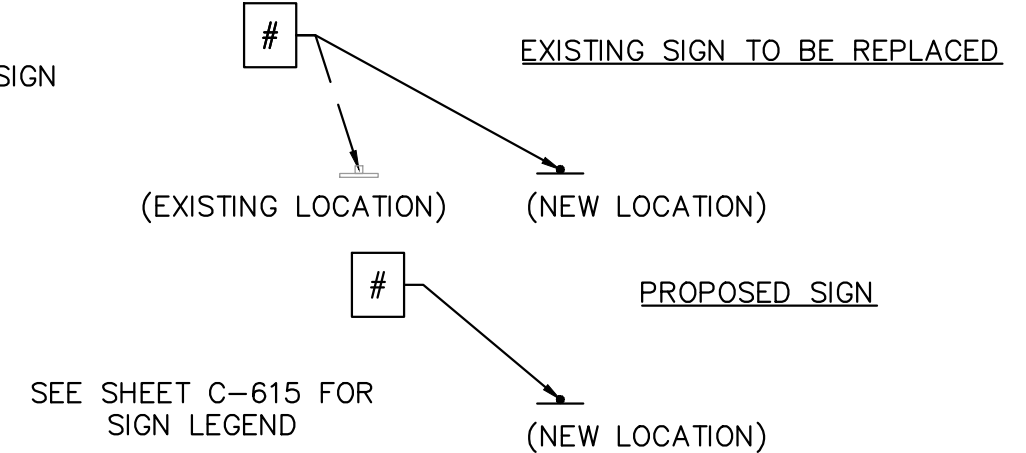


PAVEMENT MARKING LEGEND:

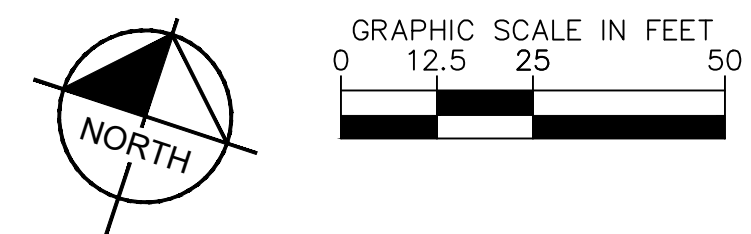
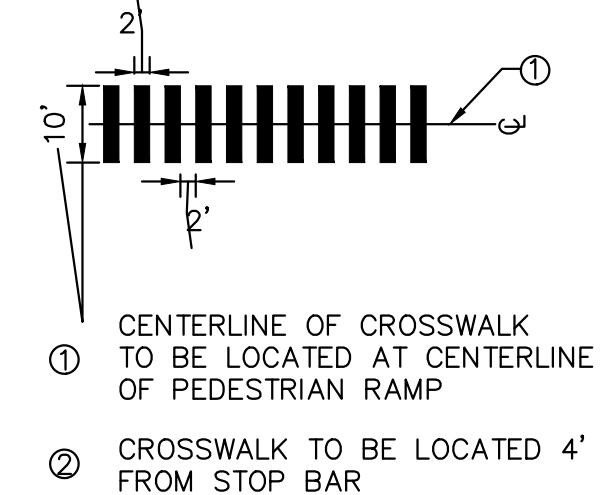
- A TYPE B, CLASS I, WHITE, 24" WIDTH
- B TYPE B, CLASS I, WHITE, 4" WIDTH
- C TYPE B, CLASS I, WHITE, 8" WIDTH
- D TYPE B, CLASS I, YELLOW, 4" WIDTH
- E TYPE B, CLASS I, WHITE, 4" WIDTH, 2' LONG, 6' SPACE
- F TYPE B, CLASS I, WHITE, 4" WIDTH, 3' LONG, 9' SPACE
- G TYPE B, CLASS I, WHITE, 4" WIDTH, 10' LONG, 30' SPACE
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- M TYPE B, CLASS I, WHITE 2' X 3' YIELD TRIANGLES
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- O TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING 24" WIDTH, WITH 20' SPACING AT 45 DEGREES
- P TYPE B, CLASS I, WHITE, 8" WIDTH, 3' LONG, 9' SPACE

SIGN LEGEND:

- REMOVE EXISTING SIGN
- REMOVE AND SALVAGE EXISTING SIGN
- EXISTING SIGN
- PROPOSED SIGN
- BOLLARD



HIGH VISIBILITY CROSSWALK:



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

**SIGNING AND MARKING
 PLAN - N BEAUREGARD
 STREET AT KING STREET**

SHEET
 C-614
 SCALE 1" = 25'














REVISIONS	DESCRIPTION
DATE	BY

ALEXANDRIA PROJECT NO.: 110104122
 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: MAT. DATE: 4/5/24
 DRAWN BY: AUB. DATE: 4/5/24
 CHECKED BY: EJD. DATE: 4/5/24
 APPROVED BY: _____ DATE: _____



CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

PROPOSED SIGN LEGEND

#	1	2	3	4	5	6	7	8	9	10	11	12
SIGN	EXISTING SIGN							 AHEAD	 	 		 EXCEPT BUSES
MUTCD #	N/A	R4-7	R2-1	R8-3a	R7-7	R5-1A	R5-1	W11-2 W16-7P	W11-2 W16-7PL	W11-2 W16-7PR	R3-2	R5-1 R3-7aP
SIZE	VARIES	24" X 30"	24" X 30"	24" X 30"	12" X 18"	36" X 24"	24" X 36"	30" X 30" 24" X 12"	30" X 30" 24" X 12"	30" X 30" 24" X 12"	24" X 36"	24" X 36" 24" X 12"
POST TYPE	VARIES	STP-1 2" 14 GA TYPE A FOUNDATION	STP-1 2" 14 GA TYPE A FOUNDATION	STP-1 2" 14 GA TYPE A FOUNDATION	STP-1 2" 14 GA TYPE A FOUNDATION	STP-1 2" 14 GA TYPE A FOUNDATION	STP-1 2" 14 GA TYPE A FOUNDATION	STP-1 2" 14 GA TYPE A FOUNDATION	STP-1 2" 14 GA TYPE A FOUNDATION	STP-1 2" 14 GA TYPE A FOUNDATION	STP-1 2" 14 GA TYPE A FOUNDATION	STP-1 2" 14 GA TYPE A FOUNDATION

WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

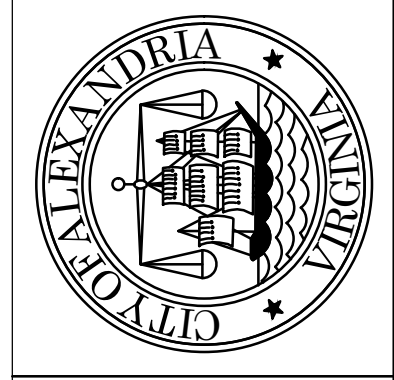
SHEET
 C-615
 SCALE NTS

SIGNING AND MARKING PLAN - SIGN LEGEND

ALEXANDRIA PROJECT NO.: 110104122
 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: MAT DATE: 4/5/24
 DRAWN BY: AUB DATE: 4/5/24
 CHECKED BY: EJD DATE: 4/5/24
 APPROVED BY: _____ DATE: _____

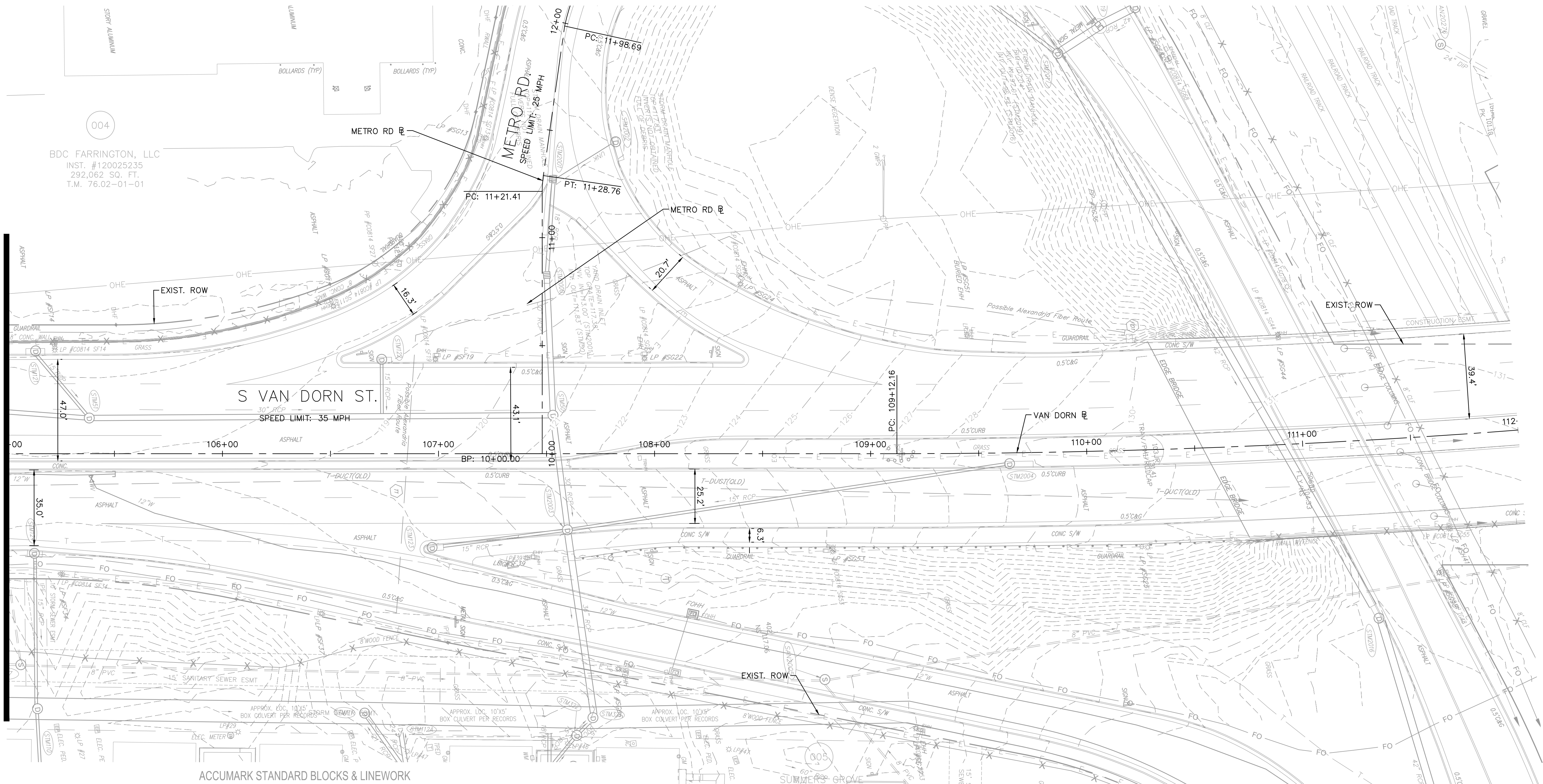
REVISIONS	DATE	DESCRIPTION

CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313



Plotted By: Waring, Megan Sheet Set: West End Transitway - Phase 1 Layout: C-702 EXISTING CONDITIONS July 11, 2024 12:48:21pm K:\NVA_Transit\1101041222_West End Transitway Design\CADD\PlanSheets\5 EXISTING CONDITIONS VAN DORN.dwg

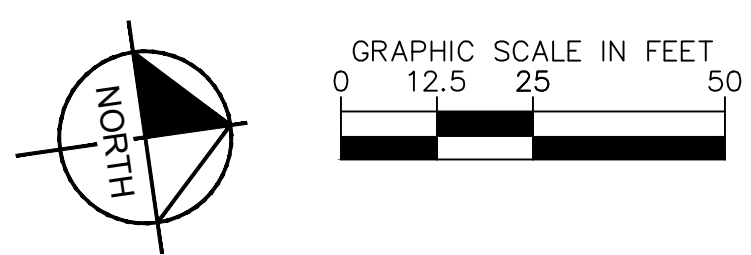
MATCHLINE STA. 105+00 SEE SHEET C-701



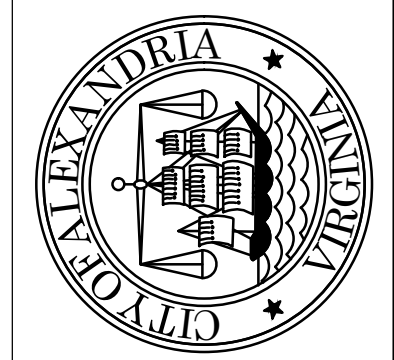
ACCUMARK STANDARD BLOCKS & LINEWORK

MISC	GPS1	SA2	TRV3	STK7	STK7	PSB6	SB9	PTH10	TH11
ELECTRIC	EM	EPED	EBOX	EHB	EM	TRANS	SWITCH	GEN	UP
GAS	GMH	GV	GM	TEST STA	VENT PIPE	GREG	MW	GECH	GCAP
STORM DRAIN	SDMH	RNCI	CURBN	RCTN	SMW	SGN	CO	ROOF DN	DECI
WATER	WMH	WV	WM	FH	SMI	SPGOT	WELL	PRV	WEDI

TRAFFIC CONTROL	TC SIG. POLE	POLE	TOB	TP	TCEO
FIBER OPTIC	FOHH	FOPED	FOBOX	FOHB	FOEOI
STW	STMH	STVP	STEO	EOI	
FUEL	FUELMH	FILL CAP	VENT PIPE	FEDI	EOI
SANITARY	SMH	SPMV	CO	VENT PIPE	SECI
UNASSIGNED	UMH	UV	UNB	CO	UECH



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS 90% DESIGN PHASE



CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

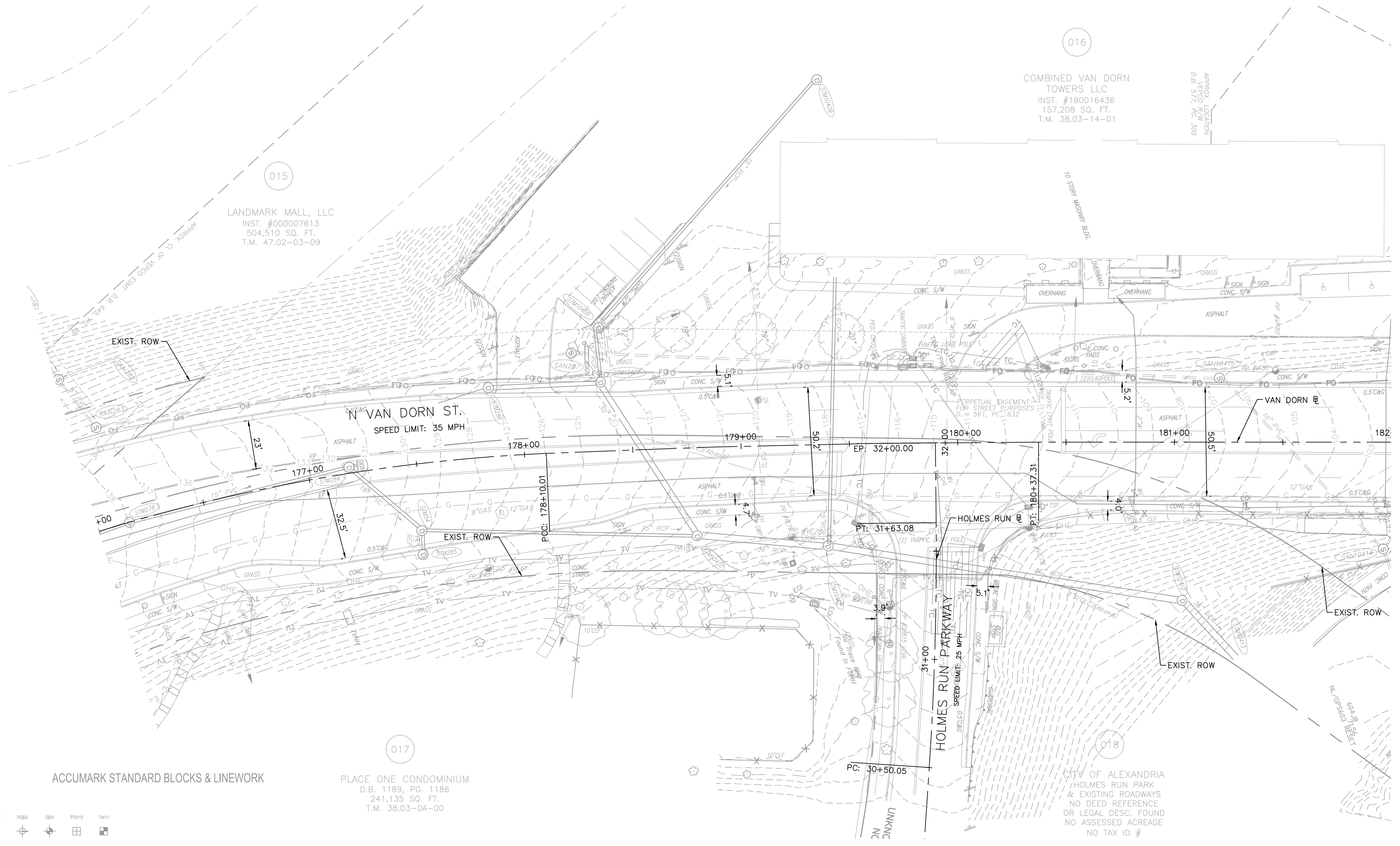
REVISIONS	DESCRIPTION
DATE	
BY	

ALEXANDRIA PROJECT NO.: 110104122
 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: EJD DATE: 4/5/24
 DRAWN BY: AUB DATE: 4/5/24
 CHECKED BY: EJD DATE: 4/5/24
 APPROVED BY: _____ DATE: _____

EXISTING CONDITIONS
 PLAN - S VAN DORN
 STREET AT METRO ROAD

SHEET
 C-702
 SCALE 1" = 25'

Plotted By: Waring, Megan Sheet Set: West End Transitway - Phase 1 Layout: C-706 EXISTING CONDITIONS July 11, 2024 12:49:22pm K:\VVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\5 EXISTING CONDITIONS VAN DORN.dwg

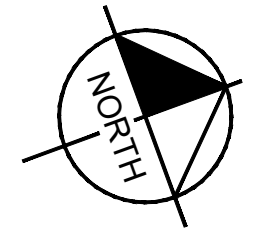


ACCUMARK STANDARD BLOCKS & LINEWORK

MISC	GPS1	SA2	TRV3	STK7	STK7	PSB6	SB9	PTH10	TH11
ELECTRIC	EMH	EPED	EBOX	EHB	EM	TRANS	SWITCH	GEN	UP
GAS	GMH	GV	GM	TEST STA	VENT PIPE	GREG	MV	GEQ1	GCAP
STORM DRAIN	SDMH	RNC1	CURBIN	RCTN	SMV	SGN	CO	ROOF DN	DECI
WATER	WMH	WV	WM	FH	SMM	SPGOT	WELL	PRV	WEG1

PLACE ONE CONDOMINIUM
D.B. 1189, PG. 1186
241,135 SQ. FT.
T.M. 38.03-0A-00

GL-LINES	OLC-OR-LINES	EXTRA-GLA-C-OR-LINES	EXTRA-GLA-C-OR-LINES
E	E(OLC)	CW	HW
TV	T(OLC)	COMM	TVFO
FO	GAS(OLC)	CA	SDFM
G	T-DUCT(OLD)	UNK	IS
E-Duct	W(OLC)	IS	SFM
T-Duct		IRR	
TC			



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

EXISTING CONDITIONS
PLAN - N VAN DORN
STREET AT HOLMES RUN
PARKW

SHEET
C-706
SCALE 1" = 25'

90% DESIGN PHASE

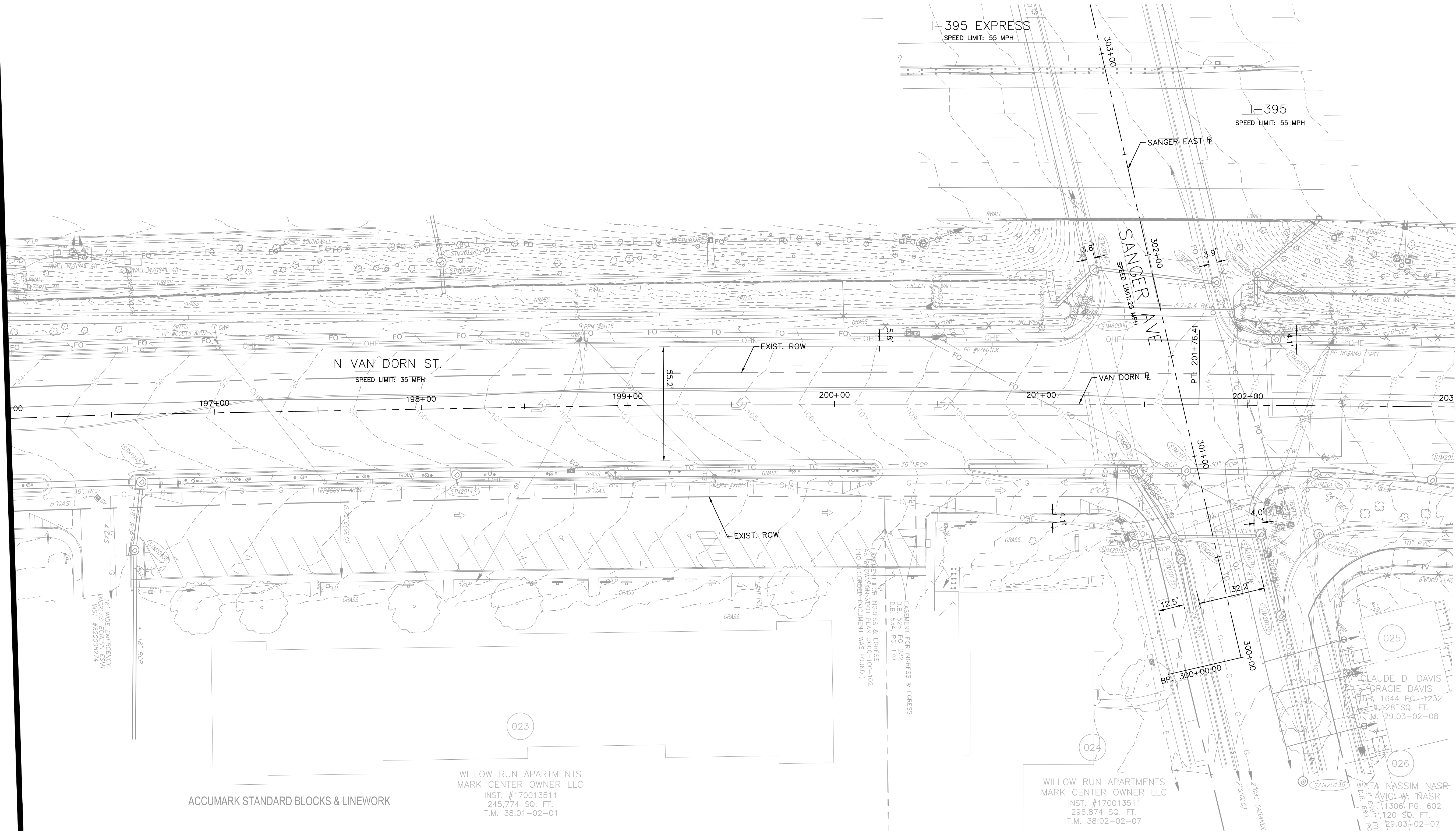
CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

REVISIONS	DATE	DESCRIPTION

ALEXANDRIA PROJECT NO.: 110104122
DATE OF PLAN ISSUANCE: N/A
CONSULTANT PROJECT ID: N/A
DESIGNED BY: EJD DATE: 4/5/24
DRAWN BY: AJB DATE: 4/5/24
CHECKED BY: EJD DATE: 4/5/24
APPROVED BY: _____ DATE: _____



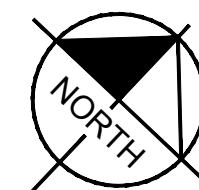
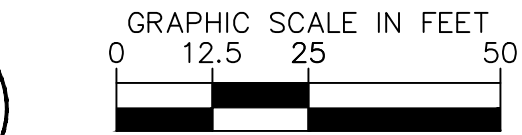
MATCHLINE STA. 196+00 SEE SHEET C-707



ACCUMARK STANDARD BLOCKS & LINEWORK

WILLOW RUN APARTMENTS
MARK CENTER OWNER LLC
INST. #170013511
245,774 SQ. FT.
T.M. 38.01-02-01

WILLOW RUN APARTMENTS
MARK CENTER OWNER LLC
INST. #170013511
296,874 SQ. FT.
T.M. 38.02-02-07



MISC	GPS1	SA2	TRV3	STK7	STK7	PSB8	SB9	PTH10	TH11
ELECTRIC	EM	EPED	EROK	ERB	EM	TRANS	SWITCH	GEN	UP
CITY	TVM	TVPD	TVBOX	TVB	TVBO				
TELEPHONE	TMH	TPED	TCAB	THB	PHONE	CALL	TECH	TELE POLE	COMBO POLE
GAS	GMH	GV	GM	TEST STA	VENT PIPE	GREG	MV	GECH	GCAP
STORM DRAIN	SDMH	RNCI	CURBN	RCTN	SMN	SQN	CO	ROOF DN	DECI
WATER	WMH	WV	WM	FH	SMI	SPGOT	WELL	PRV	WEDI

TC SIG. POLE	RED SIG. POLE	TOHB	TC CAB	TCEO	EOI	TRAFFIC CONTROL
FOMH	FOPED	FOROK	FOMB	FOEO	EOI	FIBER OPTIC
STMH	STVP	STEO	EOI	STEM		
FUELMH	FILL CAP	VENT PIPE	FEDI	EOI		FUEL
SMH	SPMV	CO	VENT PIPE	SECI	EOI	SEWERY
UMH	UV	UNB	CO	UECH	EOI	UNDRIN

WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

EXISTING CONDITIONS
PLAN - N VAN DORN
STREET AT SANGER
AVENUE

SHEET
C-708
SCALE 1" = 25'

90% DESIGN PHASE

CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

REVISIONS	DATE	DESCRIPTION

ALEXANDRIA PROJECT NO. 110104122
DATE OF PLAN ISSUANCE: N/A
CONSULTANT PROJECT ID: N/A
DESIGNED BY: EJD DATE: 4/5/24
DRAWN BY: AUB DATE: 4/5/24
CHECKED BY: EJD DATE: 4/5/24
APPROVED BY: _____ DATE: _____



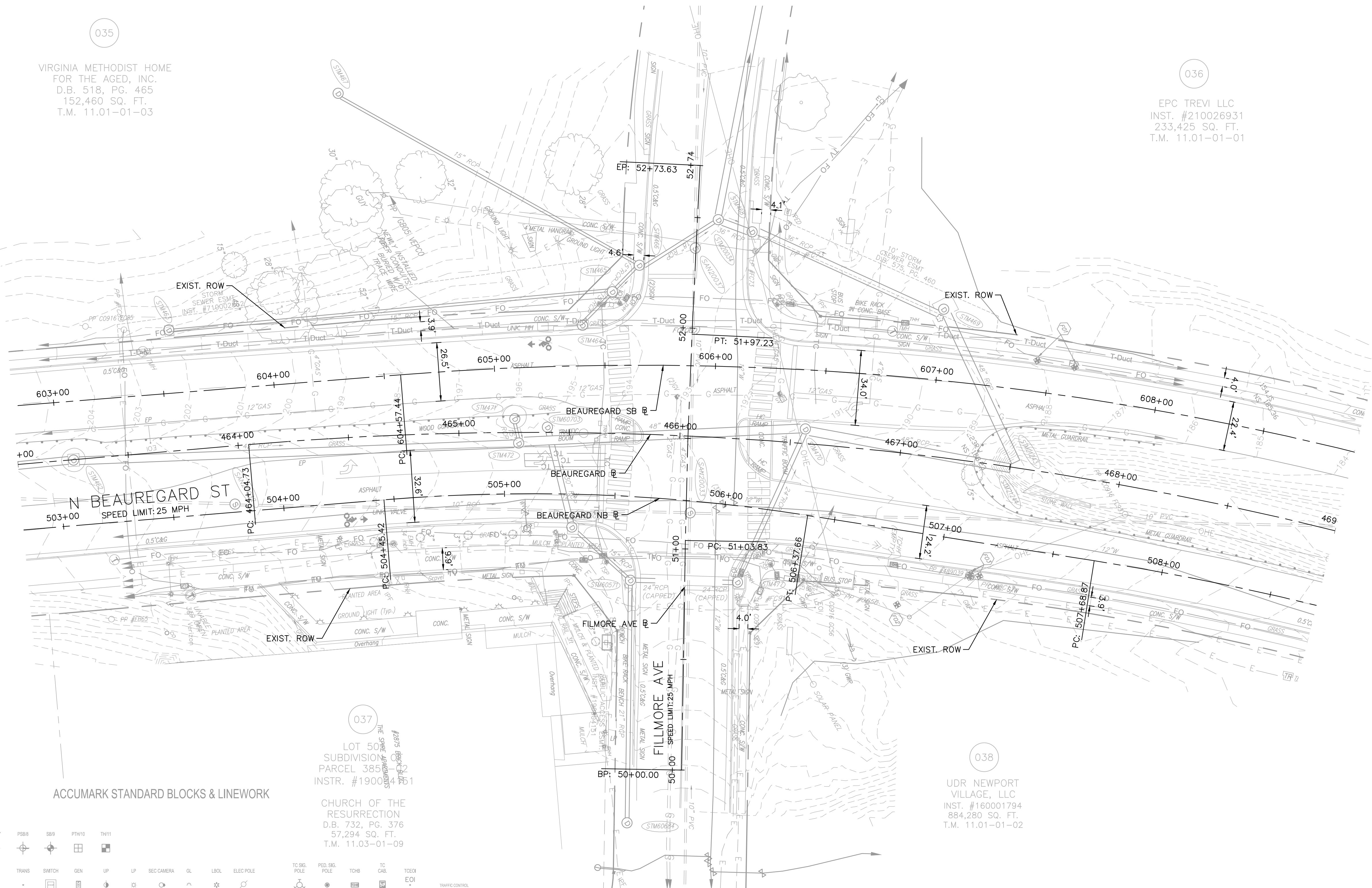
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035

VIRGINIA METHODIST HOME FOR THE AGED, INC. D.B. 518, PG. 465 152,460 SQ. FT. T.M. 11.01-01-03

036

EPC TREVI LLC INST. #210026931 233,425 SQ. FT. T.M. 11.01-01-01



ACCUMARK STANDARD BLOCKS & LINEWORK

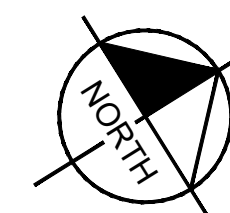
Legend table with columns for symbols and descriptions for various utility lines and structures like GPS1, SA2, TRV3, STK7, STK7, PSB8, SB9, PTH10, TH11, etc.

037 LOT 50 SUBDIVISION PARCEL 385 INSTR. #19004451

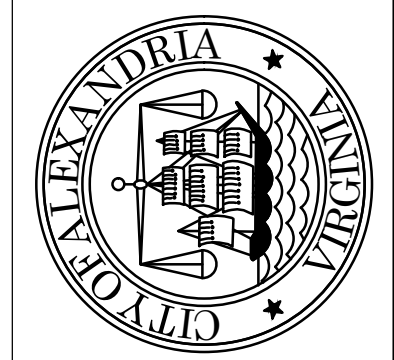
CHURCH OF THE RESURRECTION D.B. 732, PG. 376 57,294 SQ. FT. T.M. 11.03-01-09

038

UDR NEWPORT VILLAGE, LLC INST. #160001794 884,280 SQ. FT. T.M. 11.01-01-02



90% DESIGN PHASE



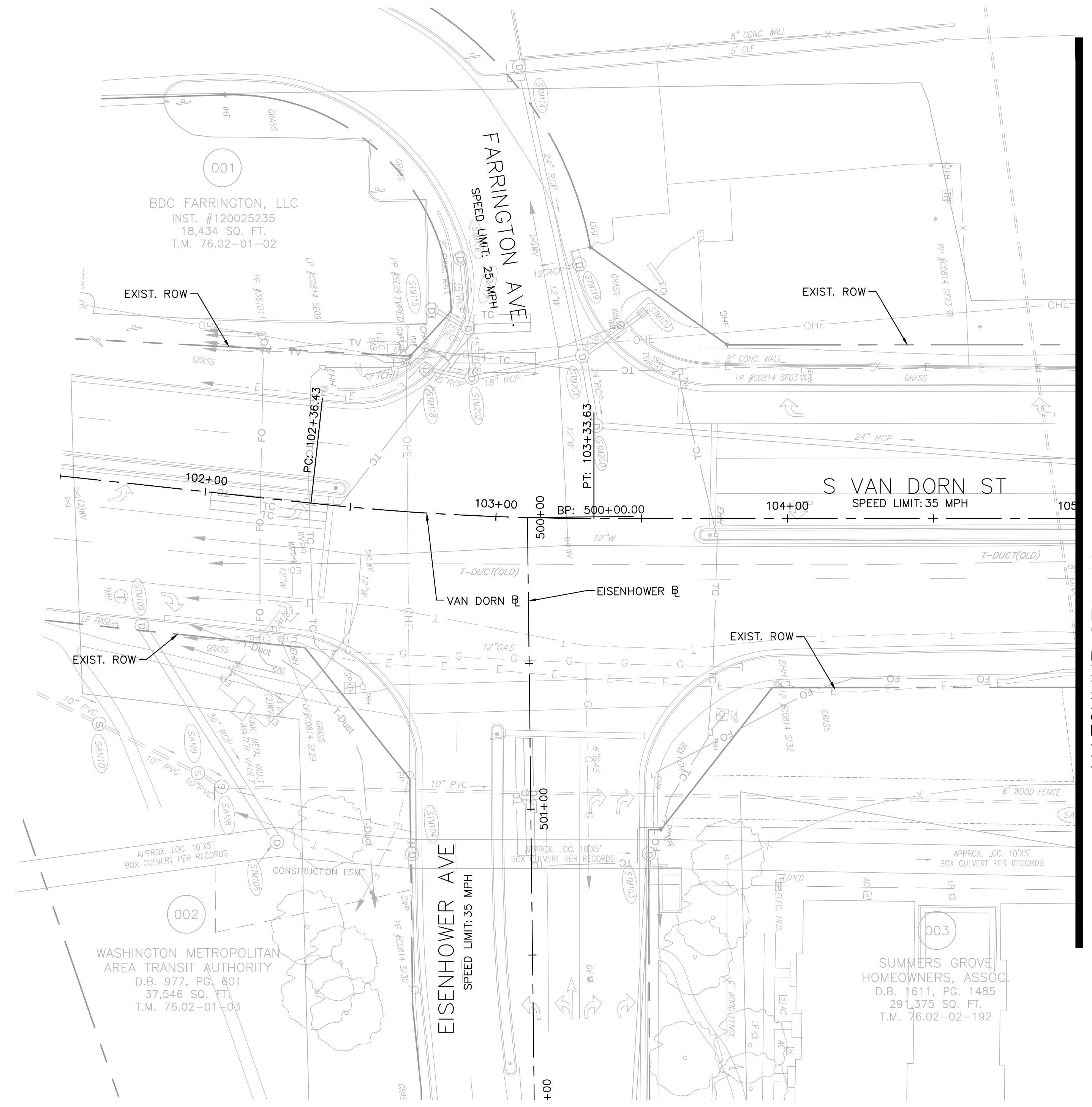
CITY OF ALEXANDRIA, VIRGINIA DEPARTMENT OF PROJECT IMPLEMENTATION 301 KING STREET ALEXANDRIA, VIRGINIA 22313

WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

Revisions table with columns for DATE, REVISIONS, and DESCRIPTION.

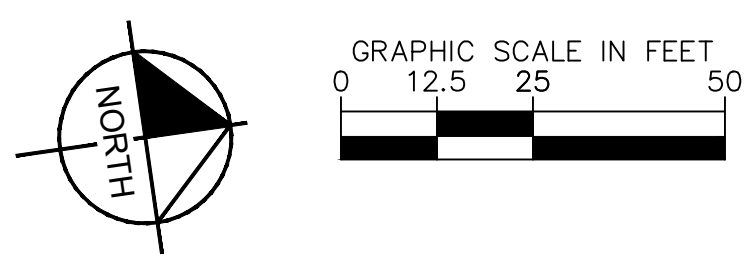
EXISTING CONDITIONS PLAN - N BEAUREGARD STREET AT FILLMORE AVENUE SHEET C-712 SCALE 1" = 25'

Plotted By: Waring, Megan Sheet Set: West End Transitway - Phase 1 Layout: C-801 UTILITY RELOCATION PLAN July 11, 2024 12:51:57pm K:\NVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\UTILITY RELOCATION PLAN VAN DORN.dwg



MATCHLINE STA. 105+00 SEE SHEET C-802

- NOTES:
 1. ALL EXISTING MANHOLE LIDS AND VALVE BOX COVERS WITHIN AREAS PROPOSED FOR PAVEMENT MILL AND OVERLAY ARE TO BE RESET TO MATCH PROPOSED GRADE/ FINAL PAVEMENT ELEVATIONS.



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

**UTILITY RELOCATION
 PLAN - S VAN DORN
 STREET AT EISENHOWER
 AVENUE**

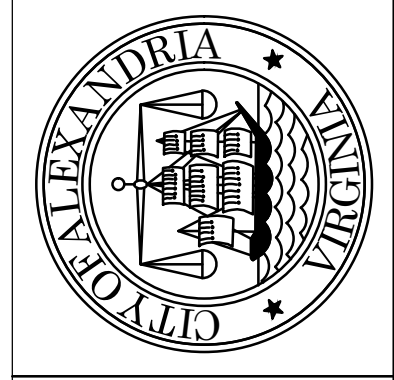
SHEET
 C-801
 SCALE 1" = 25'

ALEXANDRIA PROJECT NO.:	110104122
DATE OF PLAN ISSUANCE:	N/A
CONSULTANT PROJECT ID.:	N/A
DESIGNED BY:	EJD DATE: 4/5/24
DRAWN BY:	NS DATE: 4/5/24
CHECKED BY:	EJD DATE: 4/5/24
APPROVED BY:	DATE:

REVISIONS	DATE	DESCRIPTION

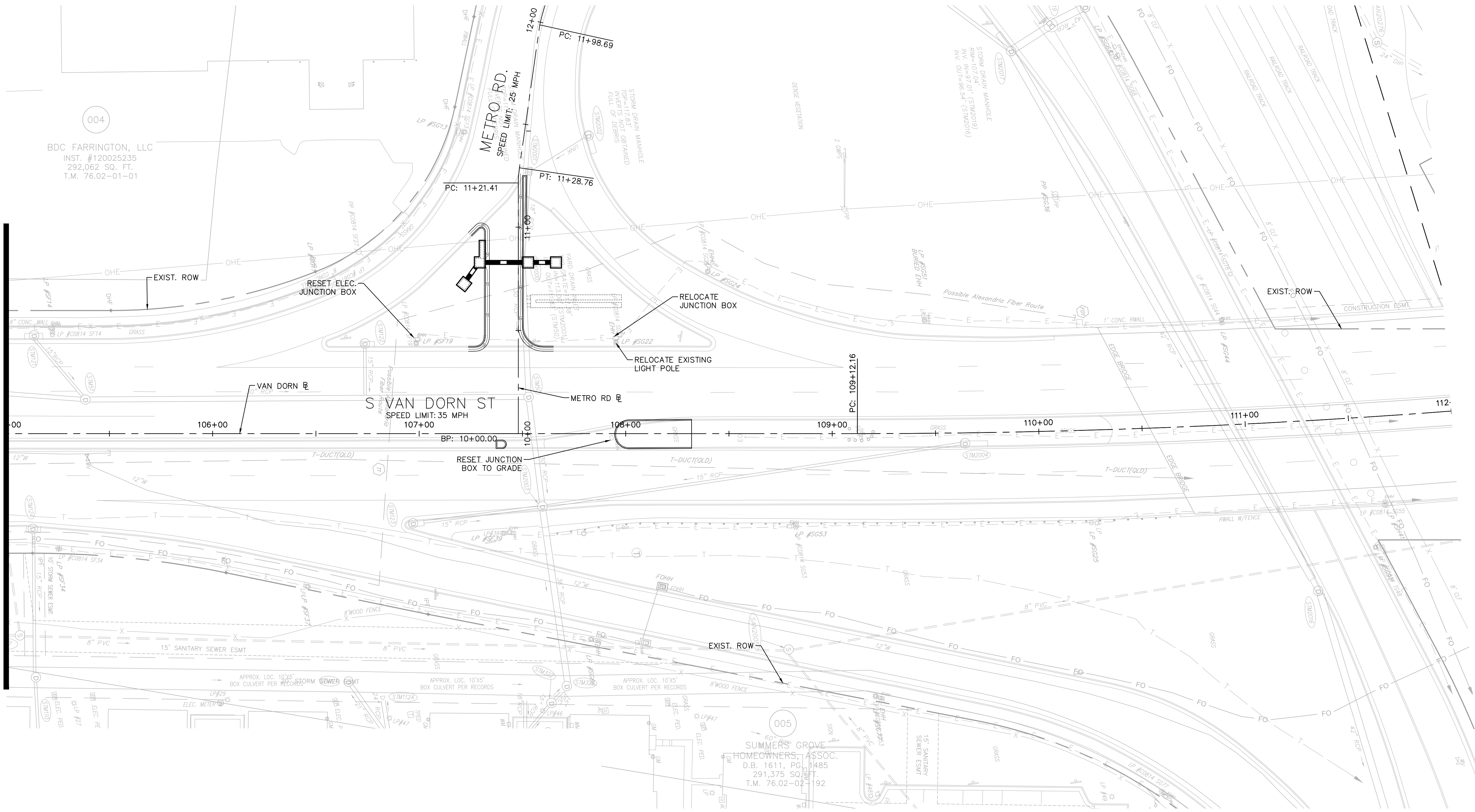
90% DESIGN PHASE

CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

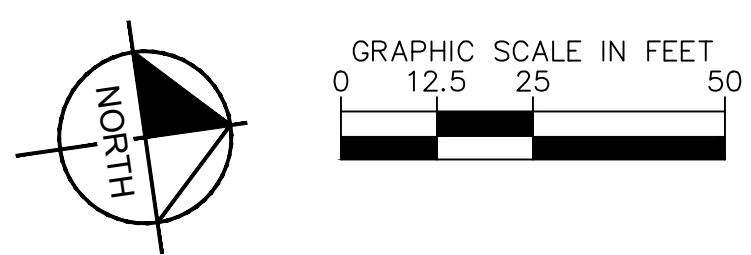


Plotted By: Waring, Megan Sheet Set: West End Transitway - Phase 1 Layout: C-802 UTILITY RELOCATION PLAN July 11, 2024 12:52:02pm K:\NVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\UTILITY RELOCATION PLAN VAN DORN.dwg

MATCHLINE STA. 105+00 SEE SHEET C-801



NOTES:
 1. ALL EXISTING MANHOLE LIDS AND VALVE BOX COVERS WITHIN AREAS PROPOSED FOR PAVEMENT MILL AND OVERLAY ARE TO BE RESET TO MATCH PROPOSED GRADE/ FINAL PAVEMENT ELEVATIONS.



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

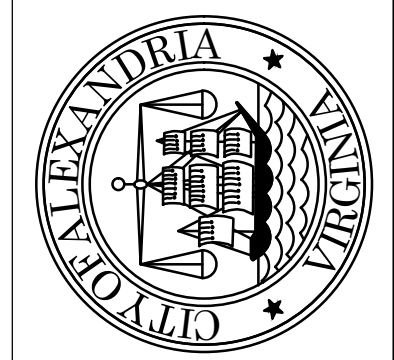
**UTILITY RELOCATION
 PLAN - S VAN DORN
 STREET AT METRO ROAD**

SHEET
 C-802
 SCALE 1" = 25'

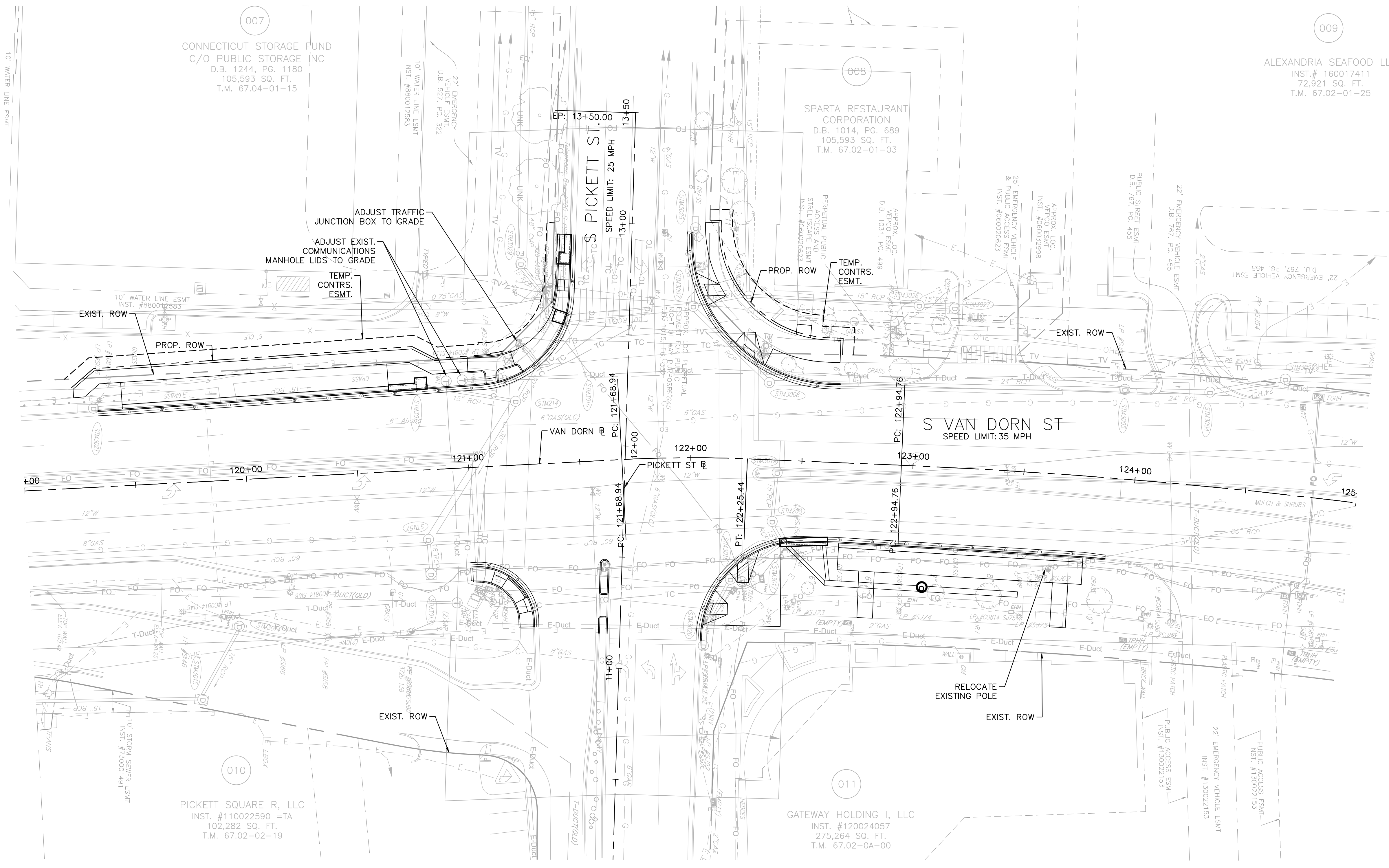
ALEXANDRIA PROJECT NO.:	110104122
DATE OF PLAN ISSUANCE:	N/A
CONSULTANT PROJECT ID.:	N/A
DESIGNED BY:	EJD DATE: 4/5/24
DRAWN BY:	NS DATE: 4/5/24
CHECKED BY:	EJD DATE: 4/5/24
APPROVED BY:	DATE:

REVISIONS	DESCRIPTION
DATE	
BY	

CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313



Plotted By: Waring, Megan Sheet Set: West End Transitway - Phase 1 Layout: C-803 UTILITY RELOCATION PLAN August 15, 2024 03:00:00pm K:\NVA_Transit\110104122_West_End_Transitway\Design\CADD\PlanSheets\UTILITY RELOCATION PLAN VAN DORN.dwg



NOTES:
 1. ALL EXISTING MANHOLE LIDS AND VALVE BOX COVERS WITHIN AREAS PROPOSED FOR PAVEMENT MILL AND OVERLAY ARE TO BE RESET TO MATCH PROPOSED GRADE/ FINAL PAVEMENT ELEVATIONS.



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

UTILITY RELOCATION PLAN - S VAN DORN STREET AT S PICKETT STREET

SHEET C-803
SCALE 1" = 25'

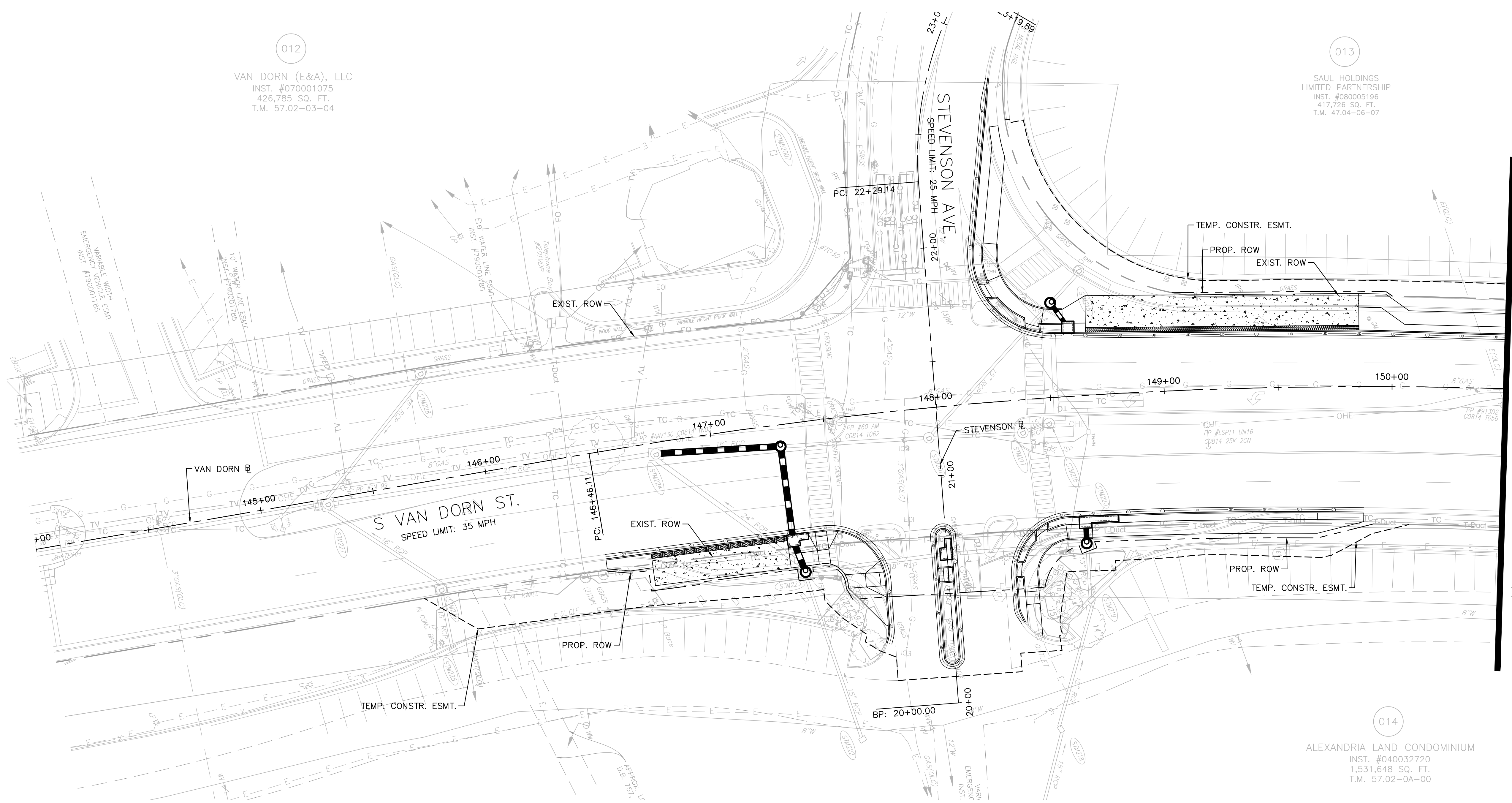
90% DESIGN PHASE

CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

REVISIONS	BY	DATE	DESCRIPTION

ALEXANDRIA PROJECT NO.: 110104122	DATE OF PLAN ISSUANCE: N/A	CONSULTANT PROJECT ID: N/A
DESIGNED BY: EJD	DATE: 4/5/24	NS DATE: 4/5/24
DRAWN BY: NS	DATE: 4/5/24	CHECKED BY: EJD
		DATE: 4/5/24
		APPROVED BY: _____

Plotted By: Waring, Megan Sheet Set: West End Transitway - Phase 1 Layout: C-804 UTILITY RELOCATION PLAN August 15, 2024 03:00:09pm K:\NVA_Transit\110104122_West_End_Transitway_Design\CADD\PlanSheets\UTILITY RELOCATION PLAN VAN DORN.dwg



012

VAN DORN (E&A), LLC
 INST. #070001075
 426,785 SQ. FT.
 T.M. 57.02-03-04

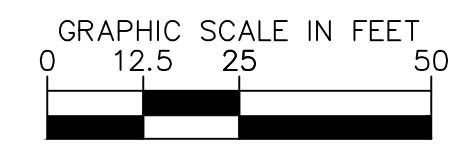
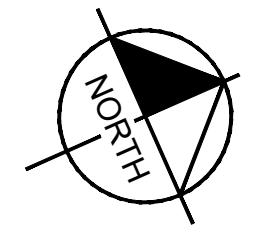
013

SAUL HOLDINGS
 LIMITED PARTNERSHIP
 INST. #080005196
 417,726 SQ. FT.
 T.M. 47.04-06-07

014

ALEXANDRIA LAND CONDOMINIUM
 INST. #040032720
 1,531,648 SQ. FT.
 T.M. 57.02-0A-00

NOTES:
 1. ALL EXISTING MANHOLE LIDS AND VALVE BOX COVERS WITHIN AREAS PROPOSED FOR PAVEMENT MILL AND OVERLAY ARE TO BE RESET TO MATCH PROPOSED GRADE/ FINAL PAVEMENT ELEVATIONS.



MATCHLINE STA. 150+50 SEE SHEET C-805

WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

UTILITY RELOCATION
 PLAN - S VAN DORN
 STREET AT STEVENSON
 AVENUE

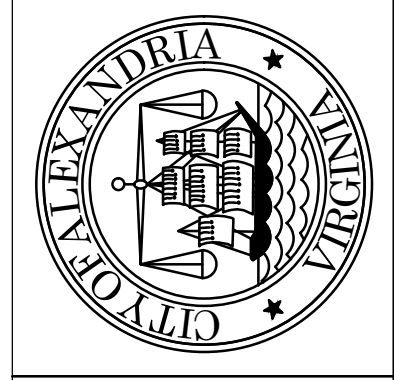
SHEET
 C-804
 SCALE 1" = 25'

REVISIONS	DATE	DESCRIPTION

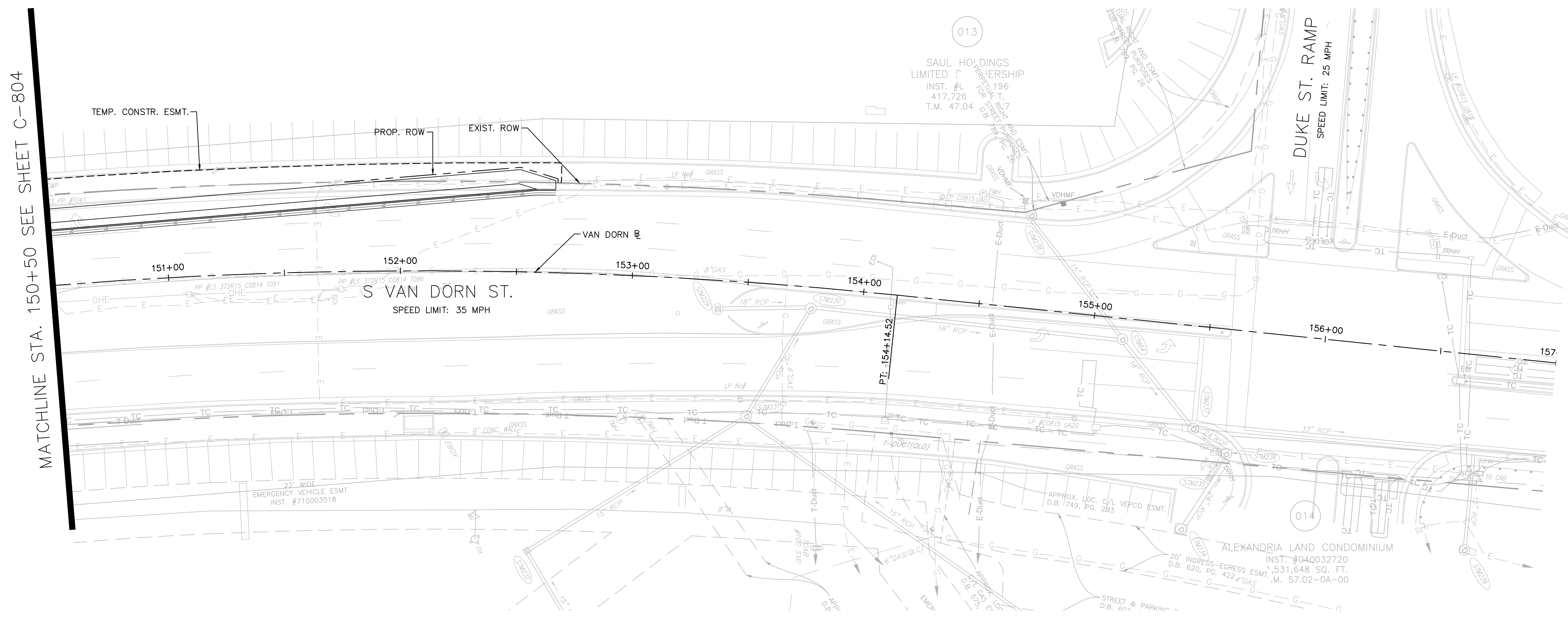
DATE	DESCRIPTION

ALEXANDRIA PROJECT NO.: 110104122
 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: EJD DATE: 4/5/24
 DRAWN BY: NS DATE: 4/5/24
 CHECKED BY: EJD DATE: 4/5/24
 APPROVED BY: _____ DATE: _____

CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

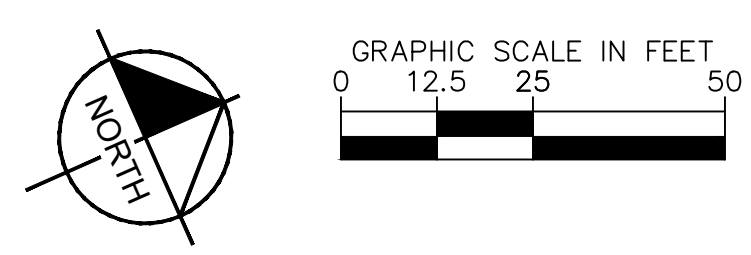


Plotted By: Waring, Megan Sheet Set: West End Transitway - Phase 1 Layout: C-805 UTILITY RELOCATION PLAN August 15, 2024 03:00:17pm K:\NVA_Transit\10104122_West End Transitway Design\CADD\PlanSheets\UTILITY RELOCATION PLAN VAN DORN.dwg



MATCHLINE STA. 150+50 SEE SHEET C-804

- NOTES:
- ALL EXISTING MANHOLE LIDS AND VALVE BOX COVERS WITHIN AREAS PROPOSED FOR PAVEMENT MILL AND OVERLAY ARE TO BE RESET TO MATCH PROPOSED GRADE/ FINAL PAVEMENT ELEVATIONS.



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

ALEXANDRIA PROJECT NO.: 110104122	
DATE OF PLAN ISSUANCE:	N/A
CONSULTANT PROJECT ID:	N/A
DESIGNED BY:	EJD DATE: 4/5/24
DRAWN BY:	NNS DATE: 4/5/24
CHECKED BY:	EJD DATE: 4/5/24
APPROVED BY:	DATE:

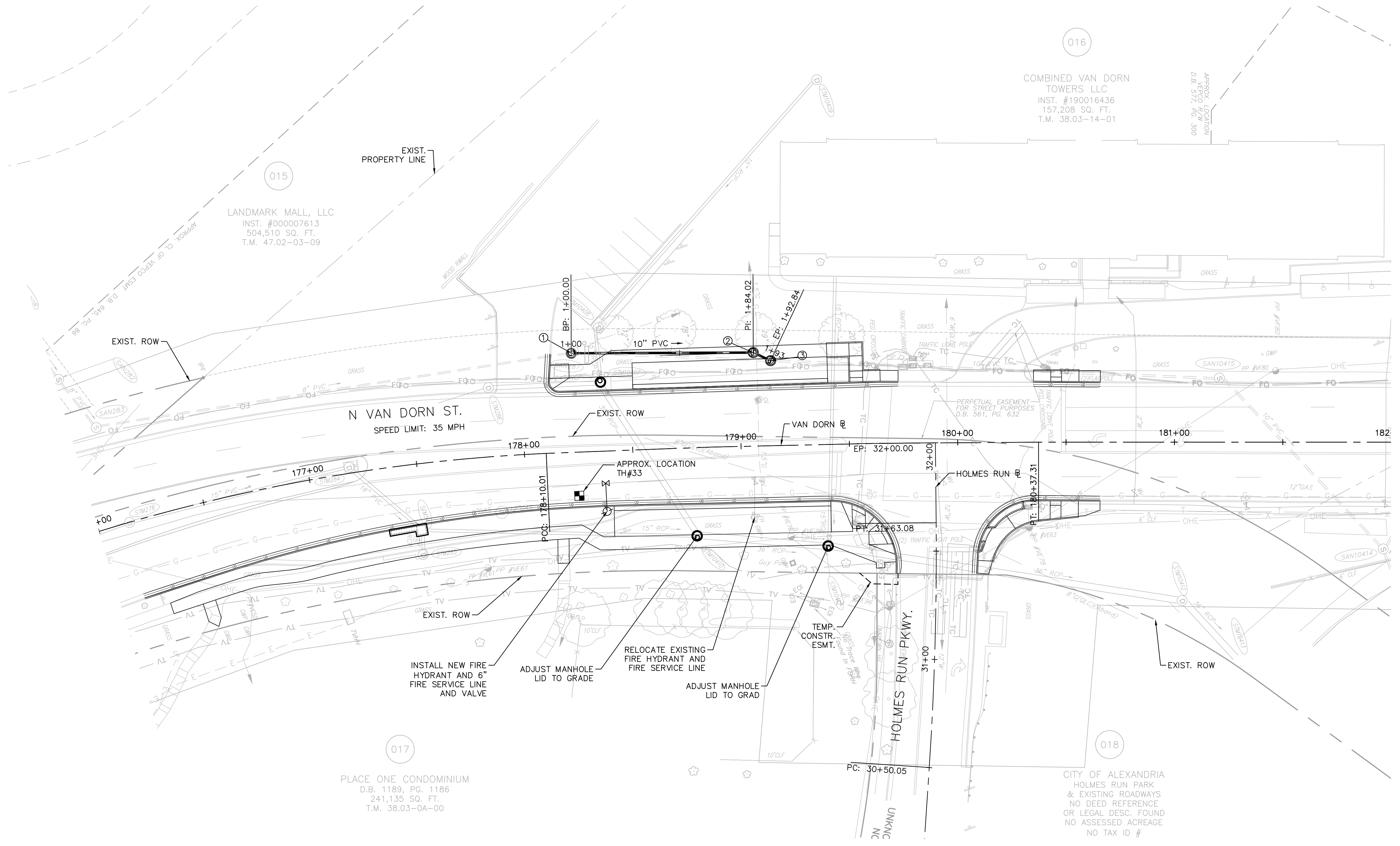
**UTILITY RELOCATION
 PLAN - S VAN DORN
 STREET AT DUKE
 STREET RAMP**

SHEET
 C-805
 SCALE 1" = 25'

CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313



Plotted By: Waring, Megan Sheet Set: West End Transitway - Phase 1 Layout: C-806 UTILITY RELOCATION PLAN August 15, 2024 03:00:24pm K:\NVA_Transit\110104122_West_End_Transitway_Design\CADD\PlanSheets\UTILITY RELOCATION PLAN VAN DORN.dwg



015

LANDMARK MALL, LLC
 INST. #000007613
 504,510 SQ. FT.
 T.M. 47.02-03-09

016

COMBINED VAN DORN
 TOWERS LLC
 INST. #190016436
 157,208 SQ. FT.
 T.M. 38.03-14-01

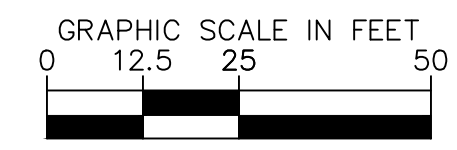
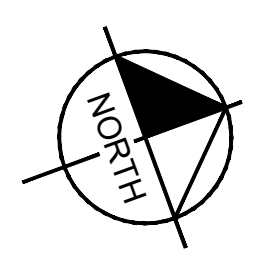
017

PLACE ONE CONDOMINIUM
 D.B. 1189, PG. 1186
 241,135 SQ. FT.
 T.M. 38.03-0A-00

018

CITY OF ALEXANDRIA
 HOLMES RUN PARK
 & EXISTING ROADWAYS
 NO DEED REFERENCE
 OR LEGAL DESC. FOUND
 NO ASSESSED ACREAGE
 NO TAX ID #

- NOTES:
- ALL EXISTING MANHOLE LIDS AND VALVE BOX COVERS WITHIN AREAS PROPOSED FOR PAVEMENT MILL AND OVERLAY ARE TO BE RESET TO MATCH PROPOSED GRADE/ FINAL PAVEMENT ELEVATIONS.



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS 90% DESIGN PHASE



CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

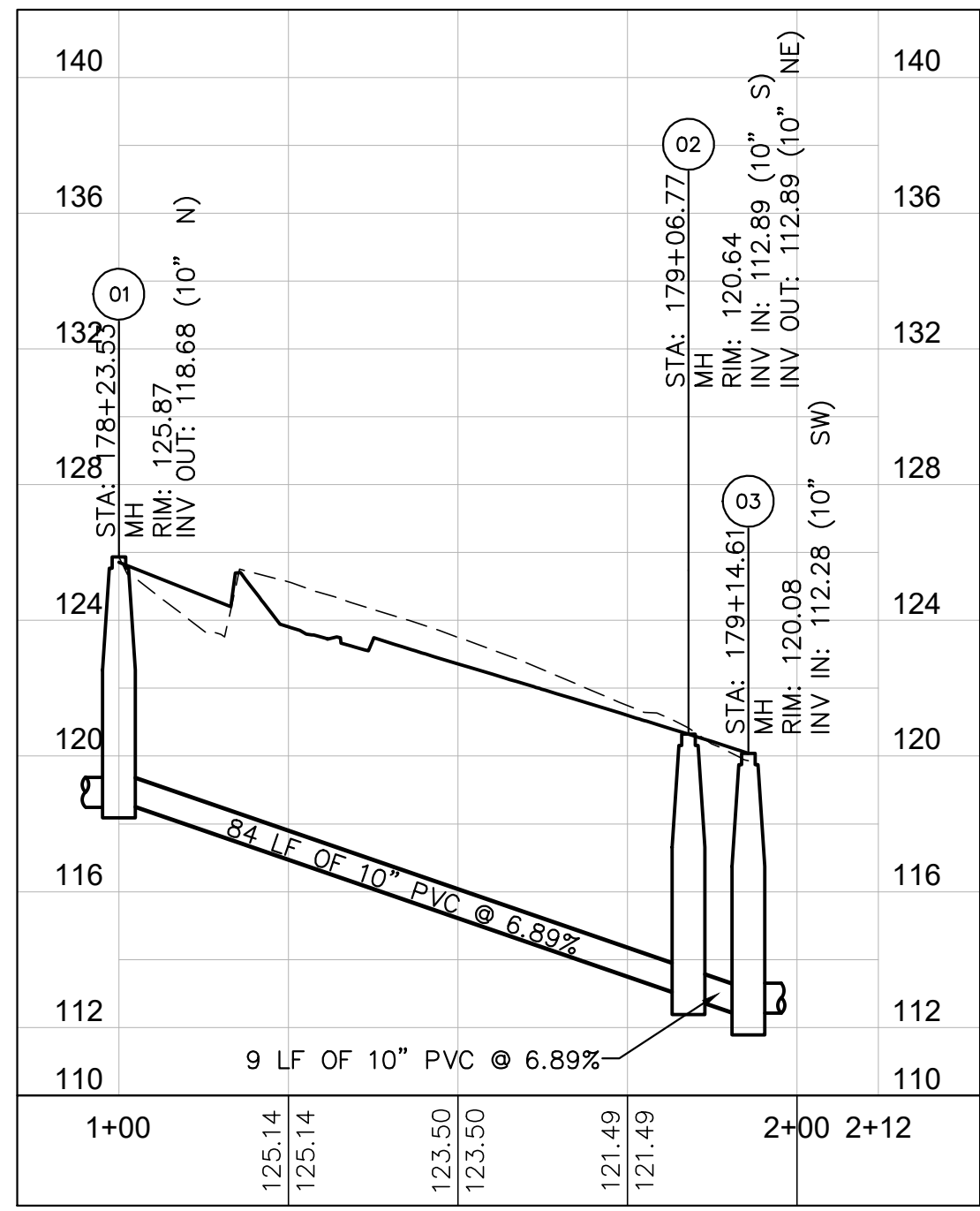
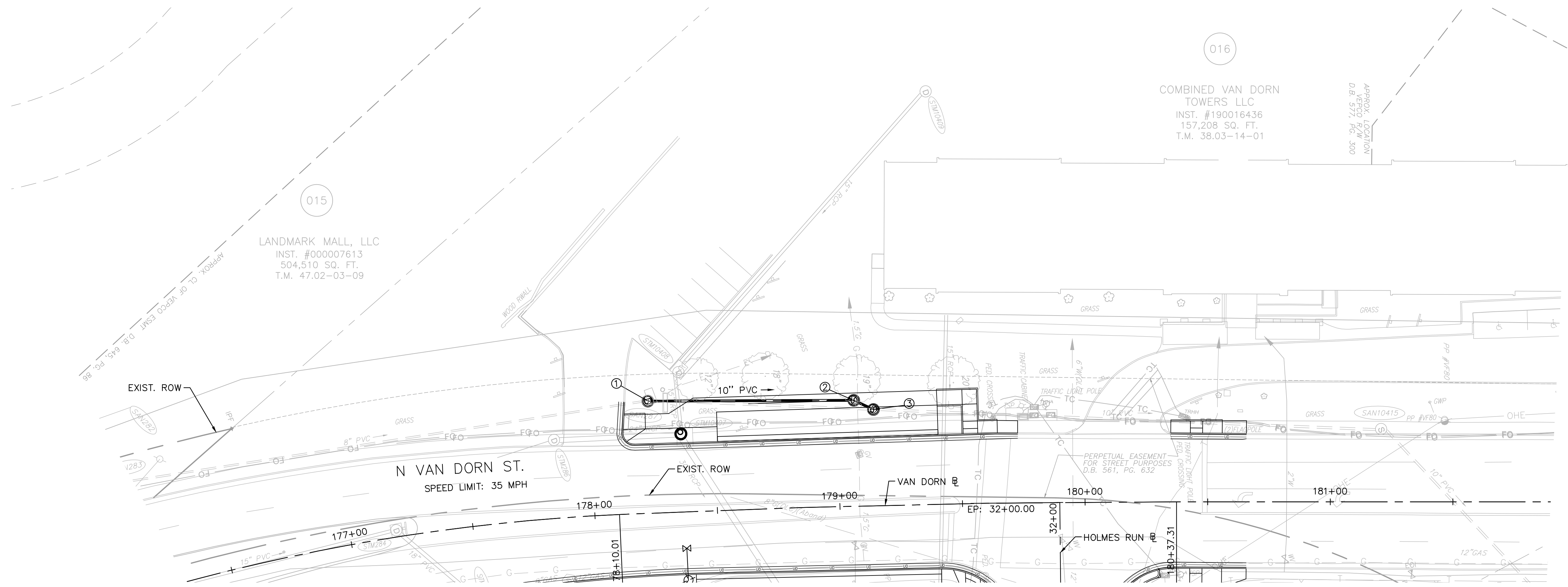
REVISIONS	DESCRIPTION

ALEXANDRIA PROJECT NO.: 110104122
 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: EJD DATE: 4/5/24
 DRAWN BY: NS DATE: 4/5/24
 CHECKED BY: EJD DATE: 4/5/24
 APPROVED BY: _____ DATE: _____

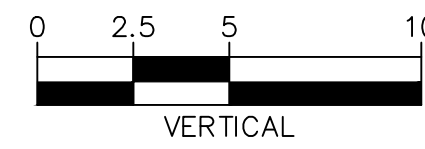
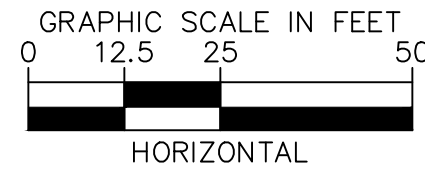
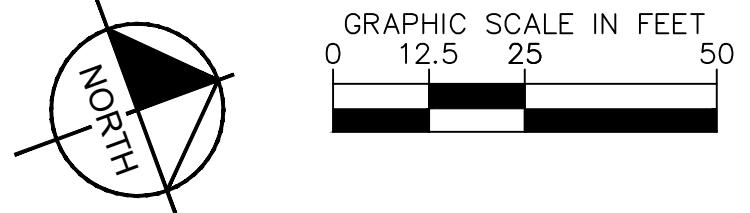
**UTILITY RELOCATION
 PLAN - N VAN DORN
 STREET AT HOLMES RUN
 PARKWAY**

SHEET
 C-806
 SCALE 1" = 25'

Plotted By: Waring, Megan Sheet Set: West End Transitway - Phase 1 Layout: C-806A UTILITY RELOCATION PLAN July 11, 2024 12:52:36pm K:\NVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\UTILITY RELOCATION PLAN VAN DORN.dwg



Holmes Run Sanitary Sewer Relocation



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

UTILITY RELOCATION
PLAN - N VAN DORN
STREET AT HOLMES RUN
PARKWAY

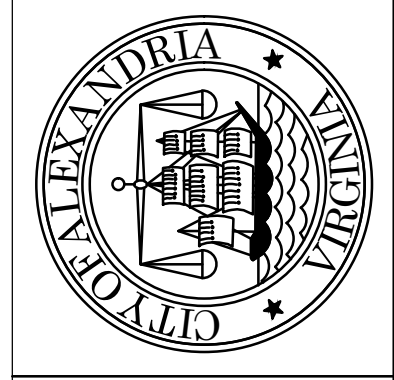
SHEET
C-806A
SCALE 1" = 25'

90% DESIGN PHASE

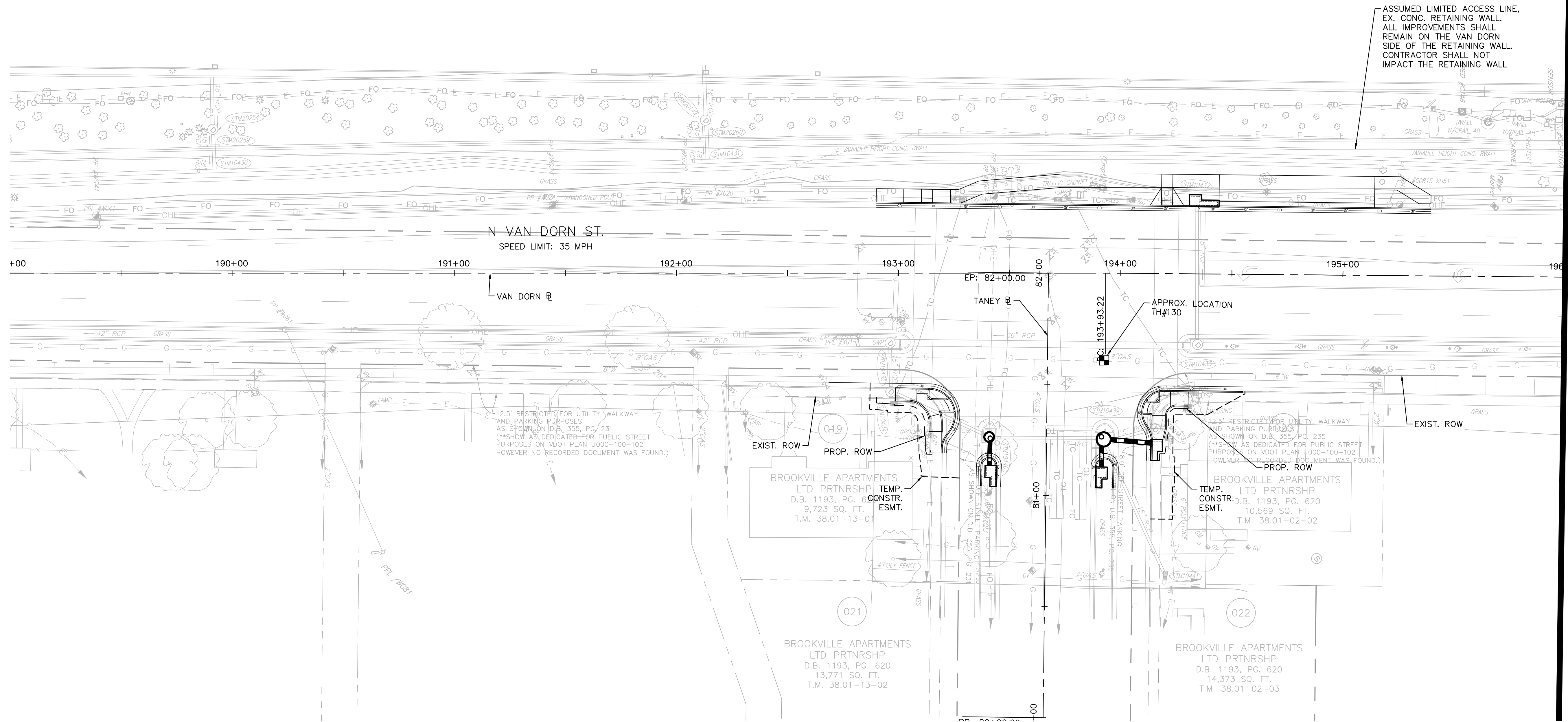
CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

REVISIONS	DATE	DESCRIPTION

ALEXANDRIA PROJECT NO.: 110104122
DATE OF PLAN ISSUANCE: N/A
CONSULTANT PROJECT ID: N/A
DESIGNED BY: VALUE DATE: 4/5/24
DRAWN BY: VALUE DATE: 4/5/24
CHECKED BY: VALUE DATE: 4/5/24
APPROVED BY: _____ DATE: _____



Plotted By: Waring, Megan Sheet Set: West End Transitway - Phase 1 Layout: C-807 UTILITY RELOCATION PLAN August 15, 2024 03:00:31pm K:\NVA_Transit\10104122_West End Transitway Design\CADD\PlanSheets\UTILITY RELOCATION PLAN VAN DORN.dwg



ASSUMED LIMITED ACCESS LINE,
 EX. CONC. RETAINING WALL.
 ALL IMPROVEMENTS SHALL
 REMAIN ON THE VAN DORN
 SIDE OF THE RETAINING WALL.
 CONTRACTOR SHALL NOT
 IMPACT THE RETAINING WALL

MATCHLINE STA. 196+00 SEE SHEET C-808

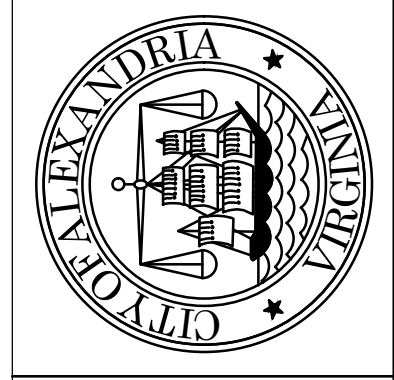
WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

**UTILITY RELOCATION
 PLAN - N VAN DORN
 STREET AT TANEY
 AVENUE**

SHEET
 C-807
 SCALE 1" = 25'

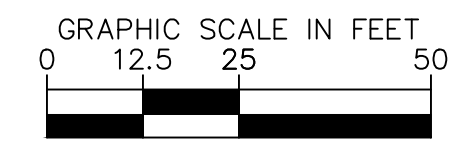
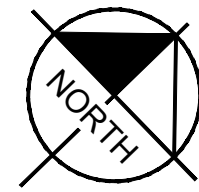
90% DESIGN PHASE

CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313



REVISIONS	DATE	DESCRIPTION

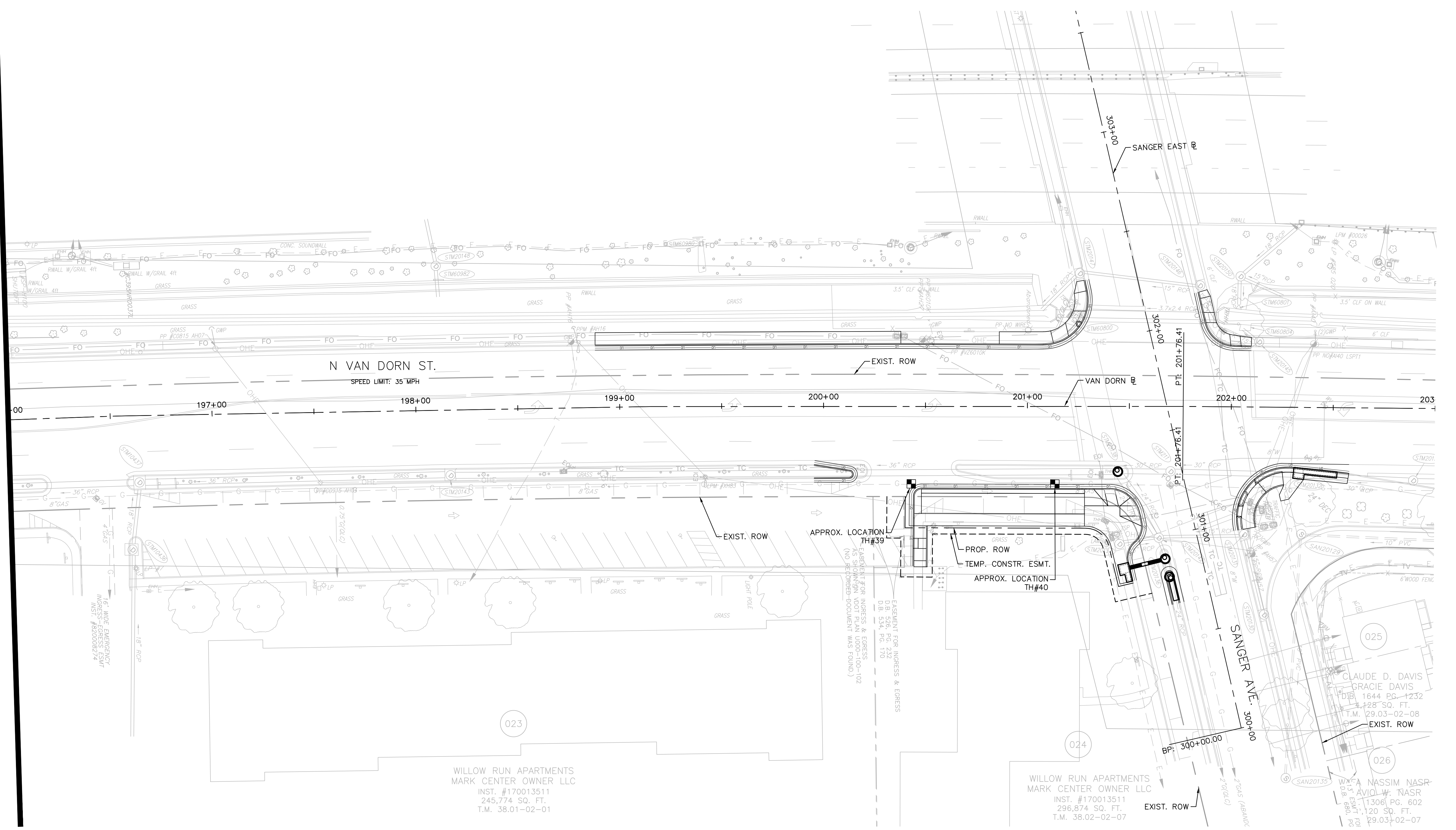
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DATE OF PLAN ISSUANCE:	N/A
CONSULTANT PROJECT ID.:	N/A
DESIGNED BY:	EJD DATE: 4/5/24
DRAWN BY:	NS DATE: 4/5/24
CHECKED BY:	EJD DATE: 4/5/24
APPROVED BY:	



- NOTES:
- ALL EXISTING MANHOLE LIDS AND VALVE BOX COVERS WITHIN AREAS PROPOSED FOR PAVEMENT MILL AND OVERLAY ARE TO BE RESET TO MATCH PROPOSED GRADE/ FINAL PAVEMENT ELEVATIONS.

Plotted By: Waring, Megan Sheet Set: West End Transitway - Phase 1 Layout: C-808 UTILITY RELOCATION PLAN August 15, 2024 03:00:39pm K:\NVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\UTILITY RELOCATION PLAN VAN DORN.dwg

MATCHLINE STA. 196+00 SEE SHEET C-807



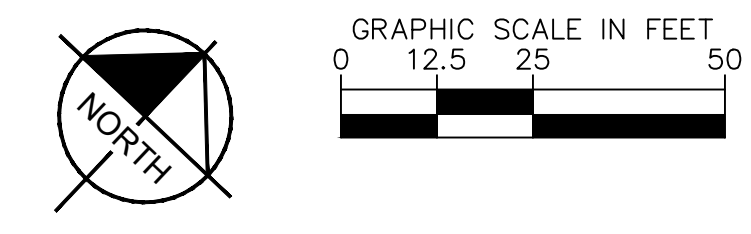
WILLOW RUN APARTMENTS
MARK CENTER OWNER LLC
INST. #170013511
245,774 SQ. FT.
T.M. 38.01-02-01

WILLOW RUN APARTMENTS
MARK CENTER OWNER LLC
INST. #170013511
296,874 SQ. FT.
T.M. 38.02-02-07

CLAUDE D. DAVIS
GRACIE DAVIS
D.B. 1644 PG. 1232
428' SQ. FT.
T.M. 29.03-02-08
EXIST. ROW

WYFA NASSIM NASR
AVIOL W. NASR
1306 PG. 602
1,120 SQ. FT.
29.03-02-07

- NOTES:
- ALL EXISTING MANHOLE LIDS AND VALVE BOX COVERS WITHIN AREAS PROPOSED FOR PAVEMENT MILL AND OVERLAY ARE TO BE RESET TO MATCH PROPOSED GRADE/ FINAL PAVEMENT ELEVATIONS.



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

UTILITY RELOCATION
PLAN - N VAN DORN
STREET AT SANGER
AVENUE

SHEET
C-808
SCALE 1" = 25'

ALEXANDRIA PROJECT NO.:	110104122
DATE OF PLAN ISSUANCE:	N/A
CONSULTANT PROJECT ID.:	N/A
DESIGNED BY:	EJD DATE: 4/5/24
DRAWN BY:	NS DATE: 4/5/24
CHECKED BY:	EJD DATE: 4/5/24
APPROVED BY:	DATE:

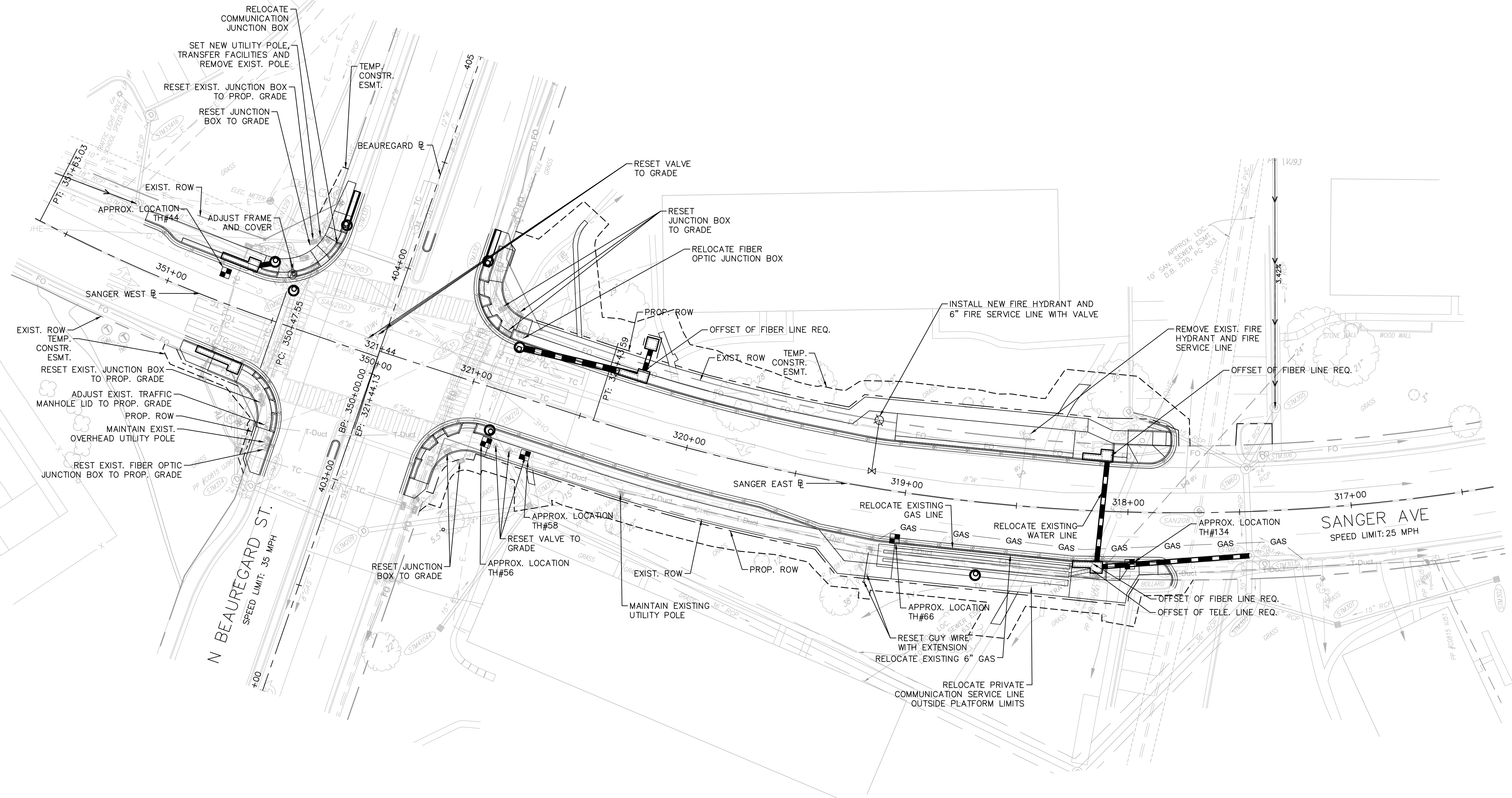
REVISIONS	DESCRIPTION
DATE	
BY	

90% DESIGN PHASE

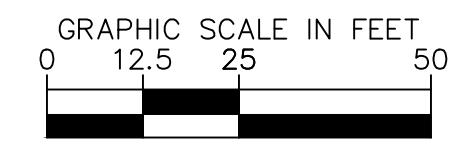
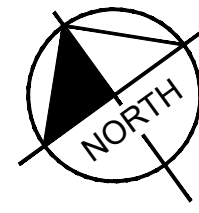
CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313



Plotted By: Waring, Megan Sheet Set: West End Transitway - Phase 1 Layout: C-809 UTILITY RELOCATION PLAN August 15, 2024 03:01:33pm K:\NVA_Transit\110104122_West_End_Transitway_Design\CADD\PlanSheets\UTILITY RELOCATION PLAN.dwg



NOTES:
 1. ALL EXISTING MANHOLE LIDS AND VALVE BOX COVERS WITHIN AREAS PROPOSED FOR PAVEMENT MILL AND OVERLAY ARE TO BE RESET TO MATCH PROPOSED GRADE/ FINAL PAVEMENT ELEVATIONS.



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

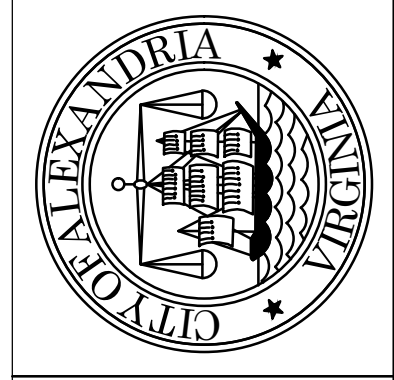
**UTILITY RELOCATION
 PLAN - N BEAUREGARD
 STREET AT SANGER
 AVENUE**

SHEET
 C-809
 SCALE 1" = 25'

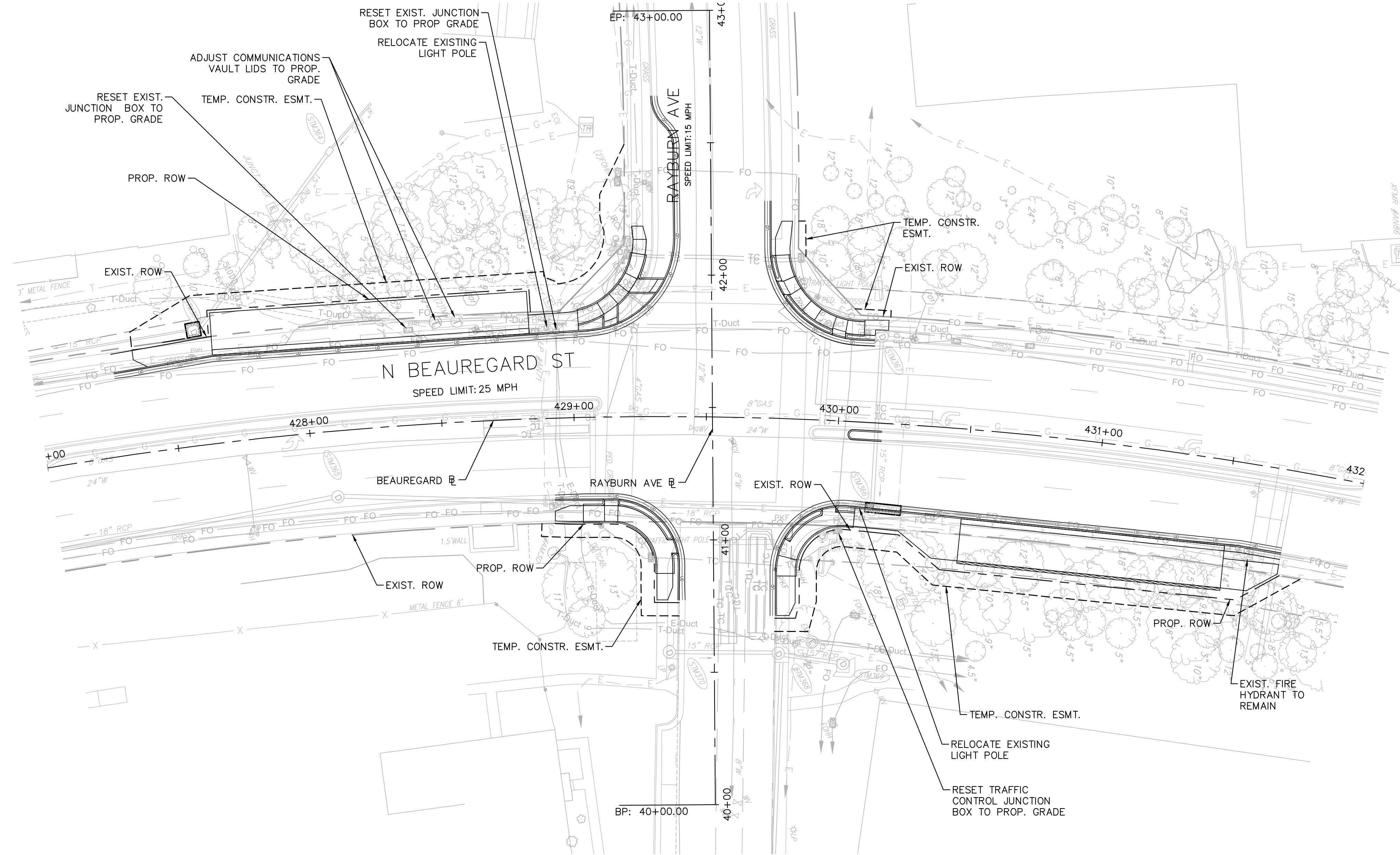
ALEXANDRIA PROJECT NO.:	110104122
DATE OF PLAN ISSUANCE:	N/A
CONSULTANT PROJECT ID.:	N/A
DESIGNED BY:	EJD DATE: 4/5/24
DRAWN BY:	NS DATE: 4/5/24
CHECKED BY:	EJD DATE: 4/5/24
APPROVED BY:	DATE:

REVISIONS	DESCRIPTION
DATE	
BY	

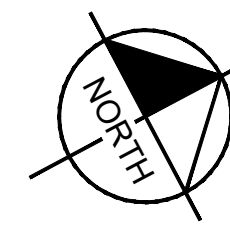
CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313



Plotted By: Waring, Megan Sheet Set: West End Transitway - Phase 1 UTILITY RELOCATION PLAN July 11, 2024 12:53:55pm K:\NVA_Transit\110104122_West_End_Transitway_Design\CADD\PlanSheets\UTILITY_RELOCATION_PLAN.dwg



- NOTES:
 1. ALL EXISTING MANHOLE LIDS AND VALVE BOX COVERS WITHIN AREAS PROPOSED FOR PAVEMENT MILL AND OVERLAY ARE TO BE RESET TO MATCH PROPOSED GRADE/ FINAL PAVEMENT ELEVATIONS.



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

UTILITY RELOCATION
 PLAN - N BEAUREGARD
 STREET AT RAYBURN
 AVENUE

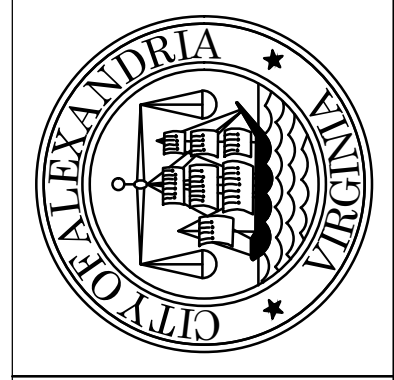
SHEET
 C-811
 SCALE 1" = 25'

90% DESIGN PHASE

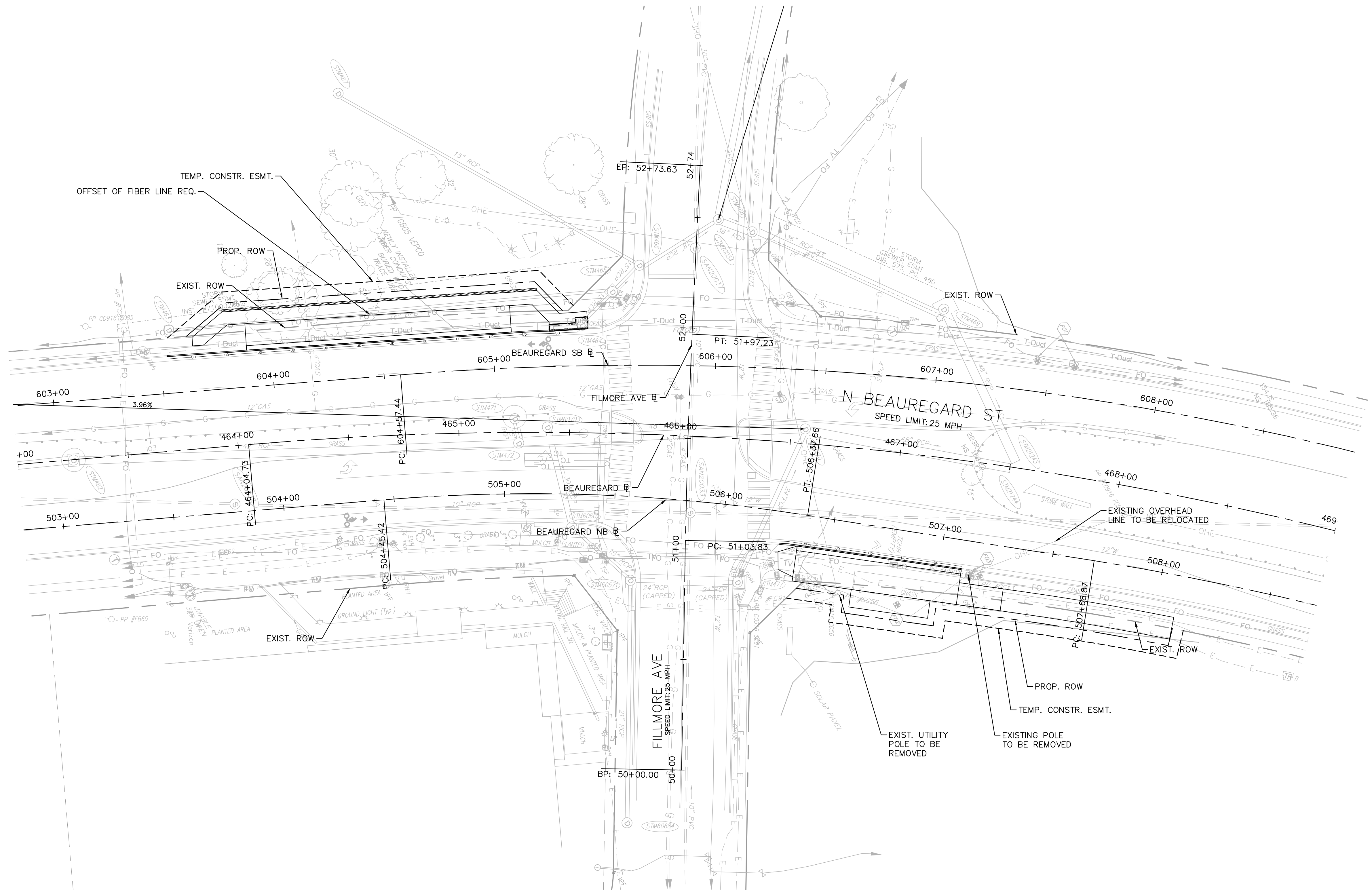
REVISIONS	DESCRIPTION
DATE	BY

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 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: EJD DATE: 4/5/24
 DRAWN BY: NS DATE: 4/5/24
 CHECKED BY: EJD DATE: 4/5/24
 APPROVED BY: _____ DATE: _____

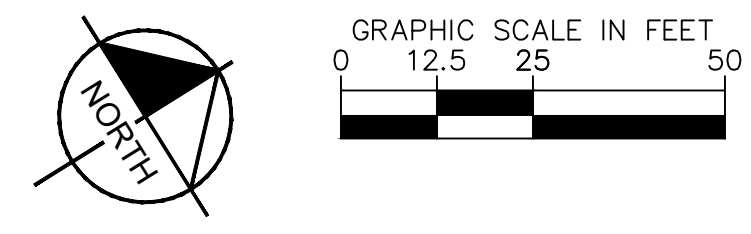
CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313



Plotted By: Waring, Megan Sheet Set: West End Transitway - Phase 1 Layout: C-812 UTILITY RELOCATION PLAN July 11, 2024 12:54:02pm K:\NVA_Transit\1101041222\West End Transitway Design\CADD\PlanSheets\UTILITY RELOCATION PLAN.dwg



NOTES:
 1. ALL EXISTING MANHOLE LIDS AND VALVE BOX COVERS WITHIN AREAS PROPOSED FOR PAVEMENT MILL AND OVERLAY ARE TO BE RESET TO MATCH PROPOSED GRADE/ FINAL PAVEMENT ELEVATIONS.



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS 90% DESIGN PHASE



CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

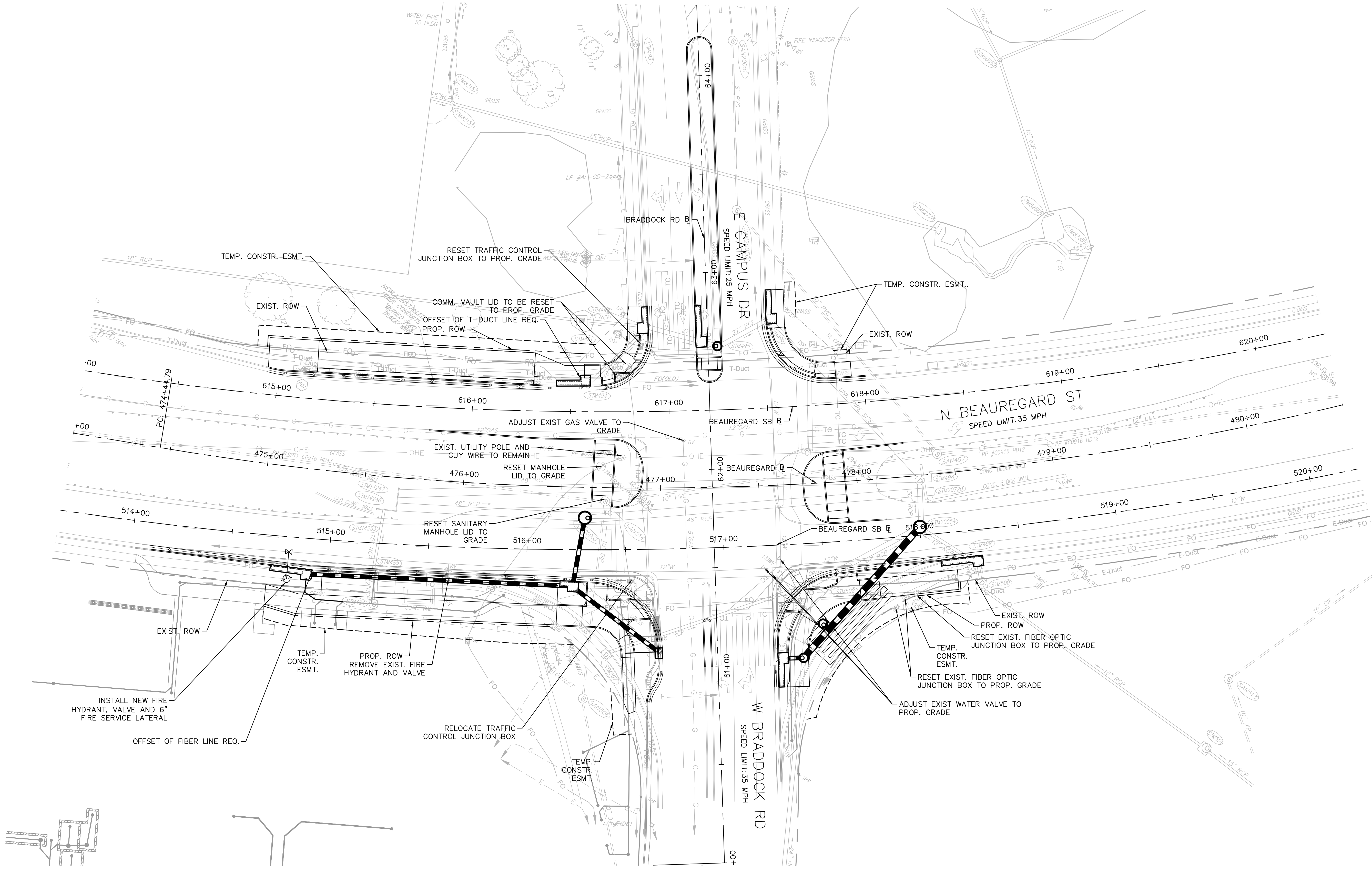
REVISIONS	DATE	DESCRIPTION

ALEXANDRIA PROJECT NO.: 110104122
 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: EJD DATE: 4/5/24
 DRAWN BY: NS DATE: 4/5/24
 CHECKED BY: EJD DATE: 4/5/24
 APPROVED BY: _____ DATE: _____

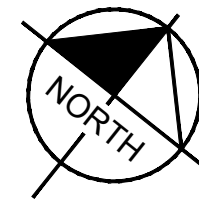
**UTILITY RELOCATION
 PLAN - N BEAUREGARD
 STREET AT FILLMORE
 AVENUE**

SHEET
 C-812
 SCALE 1" = 25'

Plotted By: Grovitt, Sydney Sheet Set: West End Transitway - Phase 1 Layout: C-813 UTILITY RELOCATION PLAN September 03, 2024 03:43:29pm K:\NVA_Transit\110104122_West_End_Transitway_Design\CADD\PlanSheets\UTILITY RELOCATION PLAN.dwg



NOTES:
1. ALL EXISTING MANHOLE LIDS AND VALVE BOX COVERS WITHIN AREAS PROPOSED FOR PAVEMENT MILL AND OVERLAY ARE TO BE RESET TO MATCH PROPOSED GRADE/ FINAL PAVEMENT ELEVATIONS.

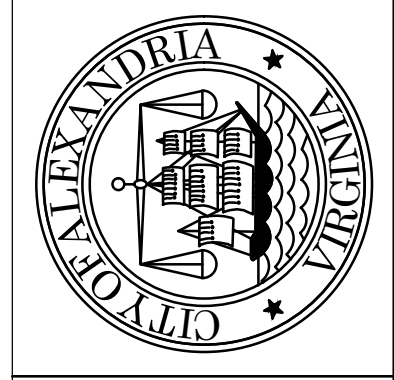


WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

UTILITY RELOCATION
PLAN - N BEAUREGARD
STREET AT W BRADDOCK
ROAD

SHEET
C-813
SCALE 1" = 25'

90% DESIGN PHASE



CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

REVISIONS	DATE	DESCRIPTION

ALEXANDRIA PROJECT NO.:	110104122
DATE OF PLAN ISSUANCE:	N/A
CONSULTANT PROJECT ID.:	N/A
DESIGNED BY:	EJD DATE: 4/5/24
DRAWN BY:	NS DATE: 4/5/24
CHECKED BY:	EJD DATE: 4/5/24
APPROVED BY:	

Plotted By: LoShier, Richard Sheet Set: West End Transitway - Phase 1 Layout: TRAFFIC SIGNAL PLANS - GENERAL NOTES July 11, 2024 06:20:59pm K:\NVA_Transit\110104122_West_End_Transitway_Design\CADD\PlanSheets\SIGNAL PLANS_SANGER_FILLMORE.dwg

GENERAL

- 1. ALL CONSTRUCTION METHODS AND MATERIALS SHALL CONFORM WITH THESE DRAWINGS, PROJECT SPECIFICATIONS, CONTRACT PROVISIONS, WITH ALL CURRENT APPLICABLE CODES AND THE LATEST REVISIONS OF THE FOLLOWING PUBLICATIONS:
- MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD)
- THE VIRGINIA SUPPLEMENT TO THE MUTCD
- VIRGINIA WORK AREA PROTECTION MANUAL
- VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK (VESCH)
- VIRGINIA DEPARTMENT OF TRANSPORTATION (VDOT) DRAINAGE MANUAL
- VIRGINIA DEPARTMENT OF TRANSPORTATION (VDOT) ROAD AND BRIDGE STANDARDS
- VIRGINIA DEPARTMENT OF TRANSPORTATION (VDOT) ROAD AND BRIDGE SPECIFICATIONS
- CITY OF ALEXANDRIA DESIGN AND CONSTRUCTION STANDARDS
2. THE CONTRACTOR SHALL OBTAIN ALL APPLICABLE PERMITS AND LICENSES AND KEEP COPIES OF THE SAME ON SITE DURING CONSTRUCTION. THE CONTRACTOR SHALL OBTAIN ALL CITY AND STATE PERMITS AS REQUIRED.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CONSTRUCTION PERMITS. THE CONTRACTOR SHALL PROVIDE ANY NECESSARY MOT PLANS TO OBTAIN PERMITS. NO SEPARATE PAYMENT SHALL BE AUTHORIZED FOR PERMITS. THE CONTRACTOR SHALL NOT BE COMPENSATED FOR PERMIT APPLICATION INCIDENTAL TO THE PROJECT. THE COST SHALL BE DISTRIBUTED OVER APPLICABLE SPECIAL PROVISIONS PAY ITEMS.
4. THE CONTRACTOR SHALL PROVIDE, INSTALL, AND ADJUST CONTROLLER TIMINGS TO PROVIDE FOR AN ORDERLY FLOW OF TRAFFIC, OR AS DIRECTED BY THE CITY OF ALEXANDRIA ENGINEER. THE CONTRACTOR SHALL HAVE THEIR IMSA LEVEL II (OR HIGHER) CERTIFIED TECHNICIAN OR REPRESENTATIVE PRESENT TO MONITOR A MINIMUM OF TWO CONSECUTIVE MORNING AND EVENING RUSH HOUR PERIODS, OR AS DIRECTED BY THE CITY OF ALEXANDRIA ENGINEER.
5. ALL INFORMATION PRESENTED IN THESE PLANS RELATIVE TO EXISTING CONDITIONS IS GIVEN AS THE BEST PRESENT KNOWLEDGE, BUT WITHOUT GUARANTEE OF ACCURACY. THE CONTRACTOR SHALL REPORT IMMEDIATELY TO THE CITY OF ALEXANDRIA ANY CONDITIONS CONFLICTING WITH THE DRAWINGS. FIELD MODIFICATIONS TO THE DRAWINGS SHALL NOT BE MADE WITHOUT THE CONSENT OF THE CITY OF ALEXANDRIA.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ELECTRICAL SERVICE TO THE PROPOSED TRAFFIC SIGNAL CONTROLLER CABINETS. EXISTING ELECTRICAL SERVICE SHALL BE MAINTAINED WHERE THE EXISTING SIGNAL CABINET WILL REMAIN.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING WITH MATCHING MATERIALS ANY PAVEMENT PAVEMENT MARKINGS, SIGNS, ETC. THAT MUST BE CUT OR REMOVED, OR THAT ARE DAMAGED DURING CONSTRUCTION.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING AND INSTALLING POLES, MAST ARMS, FOUNDATIONS, PEDESTRIAN PUSH BUTTONS, TRAFFIC / PEDESTRIAN SIGNAL DISPLAYS, SIGNS, VEHICLE DETECTION, MOUNTING HARDWARE, GROUND MOUNTED NEMA ATC CONTROLLER CABINET WITH TRAFFIC SIGNAL CONTROLLER, CONDUITS, CABLES, JUNCTION BOXES, THERMOPLASTIC PAVEMENT MARKINGS AND ANY INCIDENTAL MATERIALS NECESSARY TO PROVIDE A FUNCTIONAL INSTALLATION. THE BRAND AND VERSION OF VEHICLE DETECTION AND CONTROLLER EQUIPMENT WILL BE SPECIFIED BY THE CITY AS PART OF THE BID PACKAGE.
9. PRIOR TO INSTALLATION, THE CONTRACTOR SHALL SUBMIT ALL REQUIRED PLANS, CATALOGUE CUTS, DESIGNS, AND SHOP DRAWINGS TO THE CITY OF ALEXANDRIA FOR APPROVAL.
10. NO WORK SHALL COMMENCE WITH THE EXCEPTION OF THE SOIL SURVEY FOR THE FOUNDATIONS UNTIL ALL SUBMITTALS REQUIRED ARE RECEIVED, REVIEWED AND ACCEPTED BY THE CITY TRAFFIC ENGINEER'S REPRESENTATIVE.

UTILITIES

- 1. PRIOR TO CONSTRUCTION OR EXCAVATION, THE CONTRACTOR SHALL ASSUME THE RESPONSIBILITY OF LOCATING AND MARKING ALL UNDERGROUND UTILITIES (PUBLIC OR PRIVATE) THAT MAY EXIST OR CROSS THROUGH THE AREA OF CONSTRUCTION WHETHER OR NOT THEY ARE SHOWN ON THE PLANS. BEFORE DIGGING, TO AVOID UTILITIES, THE CONTRACTOR SHALL CALL "MISS UTILITY OF VIRGINIA" AT 1-800-552-7001 TO MARK EXISTING UTILITIES WITHIN THE WORK AREA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING, AT THEIR SOLE EXPENSE, ANY EXISTING UTILITIES DAMAGED DURING CONSTRUCTION.
2. THIS PLAN DOES NOT GUARANTEE THE EXISTENCE, NONEXISTENCE, SIZE, TYPE, LOCATION, ALIGNMENT OR DEPTH OF ANY OR ALL UNDERGROUND UTILITIES OR OTHER FACILITIES. WHERE SURFACE FEATURES (MANHOLES, CATCH BASINS, VALVES ETC.) ARE UNAVAILABLE OR INCONCLUSIVE, INFORMATION SHOWN MAY BE FROM UTILITY OWNER'S RECORDS AND/OR ELECTRONIC LINE TRACING. THE RELIABILITY OF WHICH IS UNCERTAIN. THE CONTRACTOR SHALL PERFORM TEST EXCAVATION OR OTHER REINVESTIGATION AS NECESSARY TO VERIFY LOCATION AND CLEARANCES.
3. STATE LAW MANDATES THE NOTIFICATION OF UTILITY OWNERS 48 HOURS IN ADVANCE OF EXCAVATION. FOR LOCATION OF UTILITIES CALL:
- DOMINION ENERGY 866-366-4357
- VERIZON COMMUNICATIONS 800-837-4966
- COMCAST 888-683-1000
- WASHINGTON GAS 703-750-1000
- VIRGINIA AMERICAN WATER 800-452-6863
- SANITARY SEWER - ALEXANDRIA RENEW ENTERPRISES 703-721-3500
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SIGNALIZED INTERSECTIONS UNTIL THE TRAFFIC SIGNAL IS ACCEPTED BY THE CITY OF ALEXANDRIA.
5. ANY OF THE CONTRACTOR'S WORK ACTIVITIES WHICH IMPACT ANY UTILITY FACILITY SHALL BE COORDINATED WITH THE OWNER OF THE AFFECTED UTILITY. THE CONTRACTOR SHALL FOLLOW ANY AND ALL WORK PROCEDURES THE UTILITY OWNER MAY REQUIRE.
6. ALL DIRECTIONAL DRILLING SHOULD COMPLY WITH THE REQUIREMENTS OF THE VIRGINIA UNDERGROUND UTILITY DAMAGE PREVENTION ACT.

CONSTRUCTION NOTES

- 1. ALL CLEARING AND GRUBBING SHALL BE IN ACCORDANCE WITH VDOT STANDARDS AND SPECIFICATIONS.
2. THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING AND INSTALLING AN ATC TRAFFIC SIGNAL CONTROLLER. THE CONTROLLER SHALL INCLUDE CAPABILITY TO QUEUE JUMP AND TRANSIT SIGNAL PRIORITY. THE CONTRACTOR SHALL CONTACT THE CITY IF ALEXANDRIA TRAFFIC OPERATIONS DIVISION CHIEF KEN JOHNSON AT 703-746-4416 TO ARRANGE FOR THE INSTALLATION OF THE CONTROLLER. THE CONTRACTOR'S QUALIFIED REPRESENTATIVE SHALL WIRE THE CONTROLLER, PROGRAM AND TEST THE PHASING AS SHOWN ON THE PLAN. THE CONTRACTOR SHALL PROVIDE A CERTIFICATION LETTER TO THE CITY OF ALEXANDRIA INDICATING THAT THE WORK IS IN

- COMPLIANCE WITH VDOT STANDARDS AND IS CONSISTENT WITH THE PHASING ILLUSTRATED ON THE PLAN. THE BRAND AND VERSION OF THE TRAFFIC SIGNAL CONTROLLER WILL BE SPECIFIED BY THE CITY AS PART OF THE BID PACKAGE.
3. DURING CONSTRUCTION AND WHEN NOT IN USE, ALL SIGNAL DISPLAYS AND SIGNS SHALL BE COVERED WITH A DURABLE, NON-TRANSPARENT COVER UPON INSTALLATION. THE CONTRACTOR SHALL MAINTAIN COVERS UNTIL THE SIGNAL IS TURNED ON.
4. ALL UNPAVED SURFACES SHALL BE GRADED TO PROVIDE POSITIVE DRAINAGE AWAY FROM PAVED AREAS AND TOWARD DRAINAGE STRUCTURES.
5. ALL DISTURBED AREAS SHALL BE PREPARED, SEEDED, AND MULCHED.
6. DISTURBED AREAS WITHIN THE PROJECT LIMITS WHICH WILL REMAIN INACTIVE FOR A PERIOD OF 14 OR MORE CONSECUTIVE CALENDAR DAYS SHALL BE TEMPORARILY STABILIZED WITH SEED AND STRAW, MULCH, OR OTHER ACCEPTABLE GROUND COVER.
7. THE CONTRACTOR IS REQUIRED TO NOTIFY THE CITY OF ALEXANDRIA THREE (3) DAYS PRIOR TO CONSTRUCTION AND SPECIFICALLY REQUEST A LOCATION INSPECTION BEFORE WORK IS INITIATED.
8. FIVE WORKING DAYS PRIOR TO COMMENCING SIGNAL WORK, THE CONTRACTOR SHALL NOTIFY THE CITY ENGINEER IN WRITING WITH THE DAYTIME PHONE NUMBER AND EMERGENCY NUMBER OF THE CONTRACTOR'S REPRESENTATIVE. CONTACT KEN JOHNSON WITH THE CITY OF ALEXANDRIA AT 703-746-4416.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF TRAFFIC DURING CONSTRUCTION. THE CONTRACTOR SHALL IMPLEMENT REASONABLE PROVISIONS FOR PEDESTRIANS DURING ALL PHASES OF THE PROJECT SUBJECT TO APPROVAL BY THE DIRECTOR OF TRANSPORTATION AND ENVIRONMENTAL SERVICES (T&ES).
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE OPERATION AND MAINTENANCE OF THE TRAFFIC SIGNAL UNTIL FINAL ACCEPTANCE.

SIGNAL POLES, CONTROLLER, & FOUNDATIONS

- 1. MAST ARM LENGTH IS TO BE AS SHOWN ON PLAN AND ALL MAST ARMS ARE TO BE FIELD DRILLED ONLY.
2. PEDESTAL POLES (PF-2) SHALL BE 10 FEET IN HEIGHT.
3. TRAFFIC SIGNAL POLES SHALL BE HOT DIPPED GALVANIZED AND SHALL HAVE A MATTE BLACK POWDER TOPCOAT FACTORY FINISH. PEDESTAL POLES SHALL ALSO HAVE MATTE BLACK POWDER TOPCOAT FACTORY FINISH.
4. CONTRACTOR SHALL STAKE NEW POLE AND CONTROLLER LOCATIONS, VERIFY MAST ARM LENGTHS AND OBTAIN APPROVAL FROM THE CITY ENGINEER (OR DESIGNATED REPRESENTATIVE) PRIOR TO INSTALLATION. CONTACT KEN JOHNSON AT 703-746-4416.
5. THE PROJECT SHALL BE RESPONSIBLE FOR THE LOCATION OF BORE HOLES AT EACH SIGNAL POLE LOCATION, AND FOR THE FINAL DESIGN OF EACH SIGNAL POLE FOUNDATIONS PURSUANT TO SPECIAL PROVISION.
6. THE PROJECT SHALL FURNISH THE STRUCTURAL ENGINEER/DESIGNER WITH SOIL CONDITION/SLOPE CONDITION, AND OTHER SITE CHARACTERISTICS NECESSARY TO COMPLETE THE FOUNDATION DESIGN. THE CONTRACTOR SHALL PROVIDE SEALED FOUNDATION DESIGNS TO THE CITY OF ALEXANDRIA PRIOR TO CONSTRUCTION.
7. IF APPLICABLE, ALL RIGHT TURN OVERLAPS SHALL BE WIRED TO THE OVERLAP LOAD-SWITCH POSITION.
8. FOUNDATION DESIGN TO BE PERFORMED BY A STRUCTURAL ENGINEER PURSUANT TO VDOT ROAD AND BRIDGE STANDARDS. FOUNDATION DESIGNS TO BE APPROVED BY THE CITY OF ALEXANDRIA PRIOR TO INSTALLATION.
9. CONTROLLER CABINET FOUNDATION TO BE IN ACCORDANCE WITH VDOT STD CF-3.
10. THE PROJECT SHALL PROVIDE AN ATC CABINET AND TRAFFIC SIGNAL CONTROLLER. THE ATC CABINET MUST MEET THE CURRENT ITE SPECIFICATION AT THE TIME OF CONSTRUCTION. THE BRAND AND VERSION OF TRAFFIC SIGNAL CONTROLLER WILL BE SPECIFIED BY THE CITY AS PART OF THE BID PACKAGE.
11. ELECTRICAL SERVICE SHALL BE SE-6, UNDERGROUND (METERED).
12. SIGNAL POLES SHALL MEET OR EXCEED SPECIFICATIONS PROVIDED BY THE CITY OF ALEXANDRIA. CONTACT KEN JOHNSON AT 703-746-4416.

CONDUIT, CONDUCTORS, & ELECTRICAL

- 1. FOR INSTALLATION OF CONDUIT, NO OPEN CUT WILL BE ALLOWED IN ROADWAY SURFACE.
2. JUNCTION BOX COVERS SHALL HAVE THE LETTERS "TRAF" CAST IN THE TOP SURFACE DEPRESSION FOR ALL SIGNAL RELATED JUNCTION BOXES CONTAINING CABLE WITH LESS THAN 50 VOLTS. ALL OTHER JUNCTION BOX COVERS SHALL HAVE THE LETTERS "ELEC" CAST IN THE TOP SURFACE DEPRESSION. NO JB-S1, S2, OR S3 SHALL BE INSTALLED IN A PAVED SHOULDER, SIDEWALK, OR MULTI-PURPOSE TRAIL.
3. ALL JUNCTION BOXES SHALL BE INSTALLED IN ACCORDANCE WITH STD. JB-S2 UNLESS OTHERWISE NOTED.
4. SYSTEM BONDING WIRE IS REQUIRED FOR ALL NON-METALLIC CONDUIT WITH 110V AC.
5. ALL NEW UNDERGROUND CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH VDOT STD EC-1.
6. ALL CONDUIT ENTERING JUNCTION BOXES SHALL NOT EXTEND OVER 3" MAX. NOR 2" MIN. AND SHALL BE FITTED WITH BELL END OR BUSHING.
7. ALL BOLTS, NUTS, AND WASHERS SHALL BE STAINLESS STEEL.
8. CONTRACTOR TO CONFIRM CONSTRUCTION FOR ALEXANDRIA'S ITS IMPROVEMENTS IN PHASE III AND IV PRIOR TO CONSTRUCTION TO CONFIRM THAT ALL COMMUNICATIONS ARE IN PLACE.
9. CONTRACTOR TO INSTALL AN 1,100 LB PULL ROPE IN ALL PROPOSED SPARE CONDUITS FOR USE IN FUTURE CABLE INSTALLATIONS THAT MAY BE PERFORMED BY OTHERS.

DETECTORS

- 1. THE BRAND AND VERSION OF VEHICLE DETECTION EQUIPMENT WILL BE SPECIFIED BY THE CITY AS PART OF THE BID PACKAGE.
2. THE BRAND AND VERSION OF PEDESTRIAN PUSHBUTTON EQUIPMENT WILL BE SPECIFIED BY THE CITY AS PART OF THE BID PACKAGE.
- PUSH BUTTON & PLACARD SHALL BE ORIENTED PARALLEL TO THE CROSSING FOR WHICH IT IS INTENDED.

- PUSH BUTTON TO MOUNTED 42" ABOVE FINISHED SIDEWALK GRADE.
- PUSH BUTTON ASSEMBLY SHALL FEATURE INTEGRATED 9"X15" R10-3 (MOD) INSTRUCTIONAL PLAQUE.

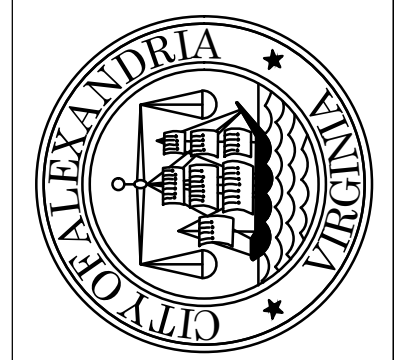
TRAFFIC SIGNAL HEADS

- 1. TRAFFIC SIGNAL HEAD SECTIONS SHALL BE CAST ALUMINUM.
2. HARDWARE SHALL BE STAINLESS STEEL.
3. ALL TRAFFIC SIGNAL HEAD SECTIONS SHALL BE LED.
4. MAST ARM MOUNTED HEADS TO BE INSTALLED IN ACCORDANCE WITH VDOT STD SM-3.
5. PEDESTRIAN SIGNAL HEADS SHALL BE CAST ALUMINUM.
6. PEDESTRIAN SIGNAL HEADS SHALL BE IN ACCORDANCE WITH STANDARD SP-8.
7. PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED IN ACCORDANCE WITH STANDARD SMB-3 (ONE-WAY).

SIGNS

- 1. MAST ARM MOUNTED SIGNS SHALL BE MOUNTED IN ACCORDANCE WITH STD. SMD-2 UNLESS OTHERWISE NOTED.

WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS 90% DESIGN PHASE



CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

Table with columns: REVISIONS, DATE, DESCRIPTION. Includes project details: ALEXANDRIA PROJECT NO.: 110104122, DATE OF PLAN ISSUANCE: N/A, CONSULTANT PROJECT ID: N/A, DESIGNED BY: PGL DATE: 12/01/23, DRAWN BY: PGL DATE: 12/01/23, CHECKED BY: DCM DATE: 12/01/23, APPROVED BY: DATE:

TRAFFIC SIGNAL PLANS - GENERAL NOTES

SHEET C-901 SCALE N/A



REVISIONS	DESCRIPTION
DATE	BY

ALEXANDRIA PROJECT NO.:	110104122
DATE OF PLAN ISSUANCE:	N/A
CONSULTANT PROJECT ID.:	N/A
DESIGNED BY:	LF DATE: 12/13/23
DRAWN BY:	LF DATE: 12/13/23
CHECKED BY:	DCM DATE: 12/13/23
APPROVED BY:	DATE:

SIGN DETAIL
1:25

SIGN NUMBER N Van Dorn St
WIDTH x HIGHT 8'-0" x 1'-6"
BORDER WIDTH 0.75"
CORNER RADIUS 1.88"
MOUNTING Overhead
BACKGROUND TYPE: Reflective
COLOR: Green
LEGEND/BORDER TYPE: Reflective
COLOR: White/White

SYMBOL	ROT	X	Y	WID	HT

Panel Style: guide_con_street name_2--line_2012.ssi
M.U.T.C.D.: 2009 Edition
Dimensions are in inches.tenths Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)		LENGTH	SERIES/SIZE								
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9.4	19.1	27.2	35.2	46.1	54.5	62.9	68.4	79.3	84	77.2	5.3,8/6.5,5.3/4.3

SIGN DETAIL
1:25

SIGN NUMBER N Van Dorn St
WIDTH x HIGHT 10'-0" x 1'-6"
BORDER WIDTH 0.75"
CORNER RADIUS 1.88"
MOUNTING Overhead
BACKGROUND TYPE: Reflective
COLOR: Green
LEGEND/BORDER TYPE: Reflective
COLOR: White/White

SYMBOL	ROT	X	Y	WID	HT

Panel Style: guide_con_street name_2--line_2012.ssi
M.U.T.C.D.: 2009 Edition
Dimensions are in inches.tenths Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)		LENGTH	SERIES/SIZE											
N	B	e	a	u	r	e	g	a	r	d	S	t	ClearviewHy-5-W-R	
13.1	22.9	30.8	38.5	46.4	54.4	59.6	67.4	75.3	83.2	88.4	99.6	104.3	93.8	5.3,8/6.5,5.3/4.3

SIGN DETAIL
1:25

SIGN NUMBER N Van Dorn St
WIDTH x HIGHT 8'-0" x 1'-6"
BORDER WIDTH 0.75"
CORNER RADIUS 1.88"
MOUNTING Overhead
BACKGROUND TYPE: Reflective
COLOR: Green
LEGEND/BORDER TYPE: Reflective
COLOR: White/White

SYMBOL	ROT	X	Y	WID	HT

Panel Style: guide_con_street name_2--line_2012.ssi
M.U.T.C.D.: 2009 Edition
Dimensions are in inches.tenths Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)		LENGTH	SERIES/SIZE								
S	V	a	n	D	o	r	n	S	t	ClearviewHy-5-W-R	
9.6	18.9	26.9	34.9	45.8	54.2	62.6	68.1	79.1	83.7	76.7	5.3,8/6.5,5.3/4.3

SIGN DETAIL
1:25

SIGN NUMBER N Van Dorn St
WIDTH x HIGHT 6'-0" x 1'-6"
BORDER WIDTH 0.75"
CORNER RADIUS 1.88"
MOUNTING Overhead
BACKGROUND TYPE: Reflective
COLOR: Green
LEGEND/BORDER TYPE: Reflective
COLOR: White/White

SYMBOL	ROT	X	Y	WID	HT

Panel Style: guide_con_street name_2--line_2012.ssi
M.U.T.C.D.: 2009 Edition
Dimensions are in inches.tenths Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)		LENGTH	SERIES/SIZE								
S	P	i	c	k	e	t	t	S	t	ClearviewHy-5-W-R	
4	13.2	20.9	24.8	32	38.9	46.3	51.4	60.7	65.4	64	5.3,8/6.5,5.3/4.3

SIGN DETAIL
1:25

SIGN NUMBER N Van Dorn St
WIDTH x HIGHT 8'-0" x 1'-6"
BORDER WIDTH 0.75"
CORNER RADIUS 1.88"
MOUNTING Overhead
BACKGROUND TYPE: Reflective
COLOR: Green
LEGEND/BORDER TYPE: Reflective
COLOR: White/White

SYMBOL	ROT	X	Y	WID	HT

Panel Style: guide_con_street name_2--line_2012.ssi
M.U.T.C.D.: 2009 Edition
Dimensions are in inches.tenths Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)		LENGTH	SERIES/SIZE									
W	B	r	a	d	d	o	c	k	R	d	ClearviewHy-5-W-R	
5.5	18	26.3	31.3	39	47	55	63.1	70.3	81.4	86.6	84.9	5.3,8/6.5,5.3/4.3

SIGN DETAIL
1:25

SIGN NUMBER N Van Dorn St
WIDTH x HIGHT 8'-0" x 1'-6"
BORDER WIDTH 0.75"
CORNER RADIUS 1.88"
MOUNTING Overhead
BACKGROUND TYPE: Reflective
COLOR: Green
LEGEND/BORDER TYPE: Reflective
COLOR: White/White

SYMBOL	ROT	X	Y	WID	HT

Panel Style: guide_con_street name_2--line_2012.ssi
M.U.T.C.D.: 2009 Edition
Dimensions are in inches.tenths Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)		LENGTH	SERIES/SIZE										
S	t	e	v	e	n	s	o	n	A	v	e	ClearviewHy-5-W-R	
6.4	13.5	19.1	26.2	33.6	41.7	49	55.9	64.3	75.2	80.7	85.6	83.1	6/6.5,5.3/4.3

SIGN DETAIL
1:25

SIGN NUMBER Sanger & Richenbacher
WIDTH x HIGHT 10'-0" x 2'-0"
BORDER WIDTH 0.75"
CORNER RADIUS 1.88"
MOUNTING Overhead
BACKGROUND TYPE: Reflective
COLOR: Green
LEGEND/BORDER TYPE: Reflective
COLOR: White/White

SYMBOL	ROT	X	Y	WID	HT
AR_Type A	270	83.6	12.4	8	12.6
AR_Type A	90	12.2	3.8	8	12.6

Panel Style: guide_fwy_advance street name_2--lines_2012.ssi
M.U.T.C.D.: 2009 Edition
Dimensions are in inches.tenths Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)		LENGTH	SERIES/SIZE													
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29.1	34.6	40.6	46.4	52.4	58.5	67.2	70.7	73.8	47.2	6/4.9,3.3/2.7						
R	i	c	h	e	n	b	a	c	h	e	r	A	v	e	ClearviewHy-5-W-R	
29.1	35.1	38	43.4	49.3	55.3	61.4	67	72.8	78.2	84	90.1	98.9	102.3	105.4	78.8	6/4.9,3.3/2.7

SIGN DETAIL
1:25

SIGN NUMBER N Van Dorn St
WIDTH x HIGHT 6'-0" x 1'-6"
BORDER WIDTH 0.75"
CORNER RADIUS 1.88"
MOUNTING Overhead
BACKGROUND TYPE: Reflective
COLOR: Green
LEGEND/BORDER TYPE: Reflective
COLOR: White/White

SYMBOL	ROT	X	Y	WID	HT

Panel Style: guide_con_street name_2--line_2012.ssi
M.U.T.C.D.: 2009 Edition
Dimensions are in inches.tenths Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)		LENGTH	SERIES/SIZE							
S	a	n	g	e	r	A	v	e	ClearviewHy-5-W-R	
4.7	12	20	27.8	35.8	43.9	53	58.5	63.4	62.7	8/6.5,5.3/4.3

SIGN DETAIL
1:25

SIGN NUMBER Sanger & Richenbacher
WIDTH x HIGHT 10'-0" x 2'-0"
BORDER WIDTH 0.75"
CORNER RADIUS 1.88"
MOUNTING Overhead
BACKGROUND TYPE: Reflective
COLOR: Green
LEGEND/BORDER TYPE: Reflective
COLOR: White/White

SYMBOL	ROT	X	Y	WID	HT
AR_Type A	90	27.3	11.9	8	12.6
AR_Type A	270	95	1.4	8	12.6

Panel Style: guide_fwy_advance street name_2--lines_2012.ssi
M.U.T.C.D.: 2009 Edition
Dimensions are in inches.tenths Letter locations are panel edge to lower left corner

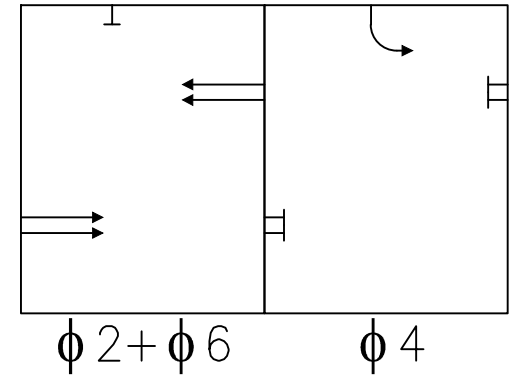
LETTER POSITIONS (X)		LENGTH	SERIES/SIZE													
S	a	n	g	e	r	A	v	e	ClearviewHy-5-W-R							
43.9	49.4	55.4	61.2	67.2	73.3	82	85.5	88.6	47.1	6/4.9,3.3/2.7						
R	i	c	h	e	n	b	a	c	h	e	r	A	v	e	ClearviewHy-5-W-R	
12.2	18.2	21.2	26.6	32.4	38.5	44.6	50.2	56	61.4	67.2	73.3	82	85.5	88.6	78.8	6/4.9,3.3/2.7

Plotted By: LdSher, Richard Sheet Set: West End Transitway - Phase 1 Layout: TRAFFIC SIGNAL PLANS - VAN DORN ST AT METRO RD July 11, 2024 06:21:43pm K:\NVA_Transit\10104122_West End Transitway Design\CADD\PlanSheets\SIGNAL PLANS VAN DORN.dwg

CONDUIT & CABLE LEGEND

- A** 1-2" CONDUIT (TRENCHED) METAL
1-1,100 LB PULL ROPE
- B** 2-3" CONDUITS (TRENCHED) PVC
3-14/7c TRAFFIC SIGNAL HEADS 2,4,6
3-VIDEO DETECTOR CABLES VD2, VD4, VD6
2-#6 AWG
- C** 1-2" CONDUIT (TRENCHED) PVC
1-PON DROP CABLE
3-OPTICOM CABLES PE2, PE4, PE6
1-#6 AWG
- D** 1-3" CONDUIT (BORED) HDPE
2-14/7c TRAFFIC SIGNAL HEADS 2,4
1-VIDEO DETECTOR CABLE VD2
1-#6 AWG
- E** 1-2" CONDUIT (BORED) HDPE
1-OPTICOM CABLE PE2
1-PON DROP CABLE
1-#6 AWG
- F** 1-3" CONDUIT (TRENCHED) PVC
1-14/7c TRAFFIC SIGNAL HEADS 2
1-VIDEO DETECTOR CABLE VD2
1-#6 AWG
- G** 1-2" CONDUIT (TRENCHED) PVC
1-PON DROP CABLE
1-#6 AWG
- H** 1-3" CONDUIT (BORED) HDPE
1-14/7c TRAFFIC SIGNAL HEADS 4
1-#6 AWG
- I** 1-3" CONDUIT (TRENCHED) PVC
1-TRAFFIC SIGNAL HEAD 4
1-#6 AWG
- J** 1-3" CONDUIT (TRENCHED) PVC
1-TRAFFIC SIGNAL HEAD 4
1-#6 AWG
- K** 1-2" CONDUIT (BORED) HDPE
1-PON DROP CABLE

PROPOSED PHASING DIAGRAM



PHASING DIAGRAM LEGEND:
 PROTECTED MOVEMENT

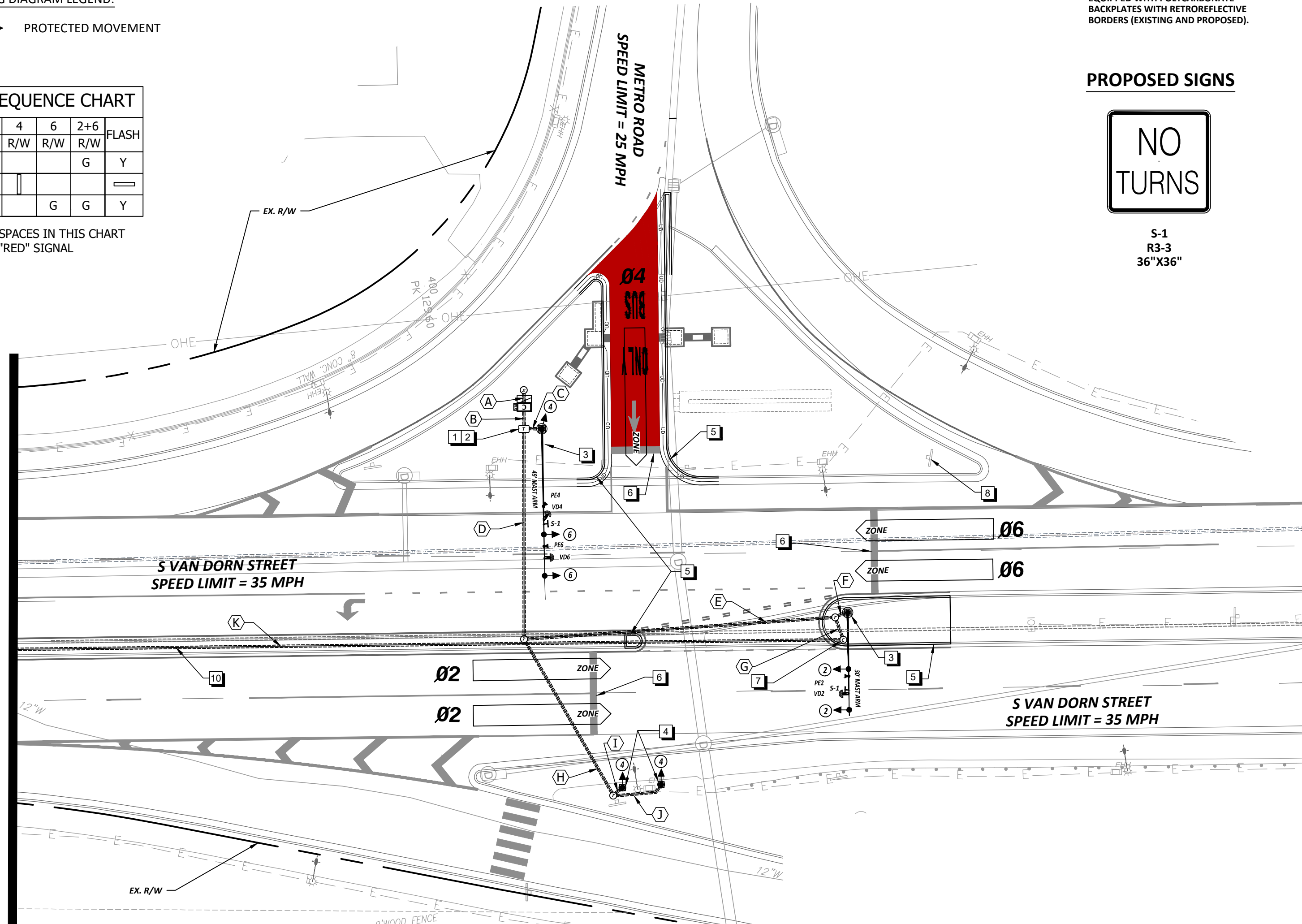
COLOR SEQUENCE CHART

PHASE	2	4	6	2+6	FLASH
SIGNAL R/W	R/W	R/W	R/W	R/W	
2	G			G	Y
4					
6			G	G	Y

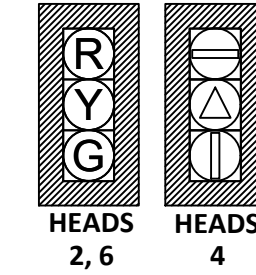
NOTE: BLANK SPACES IN THIS CHART REPRESENT A "RED" SIGNAL INDICATION.

PHASE	1	2	3	4	5	6	7	8
MOVEMENT		NB Van Dorn Street		EB Bus Only Lane		SB Van Dorn Street		
PHASE ON		X		X		X		
PHASE OFF								
MIN GR		10.0		7.0		10.0		
PASSAGE		3.0		3.0		3.0		
YELLOW		4.0		3.0		4.2		
RED		1.0		4.4		1.0		
MAX 1		40.0		15.0		40.0		
MAX 2		0.0		0.0		0.0		
MIN GAP		0.0		0.0		0.0		
TIME BEFORE REDUCTION		0.0		0.0		0.0		
TIME TO REDUCE		0.0		0.0		0.0		
PED WALK		0.0		0.0		0.0		
PED CLEARANCE		0.0		0.0		0.0		
MODE		MAX RECALL		NON-LOCK		MAX RECALL		

MATCHLINE SEE SHEET C-903A



PROPOSED SIGNALS



- NOTES:
- ALL TRAFFIC SIGNAL HEAD SECTIONS SHALL BE 12" LED.
 - ALL VEHICLE SIGNALS SHALL BE EQUIPPED WITH POLYCARBONATE BACKPLATES WITH RETROREFLECTIVE BORDERS (EXISTING AND PROPOSED).

PROPOSED SIGNS



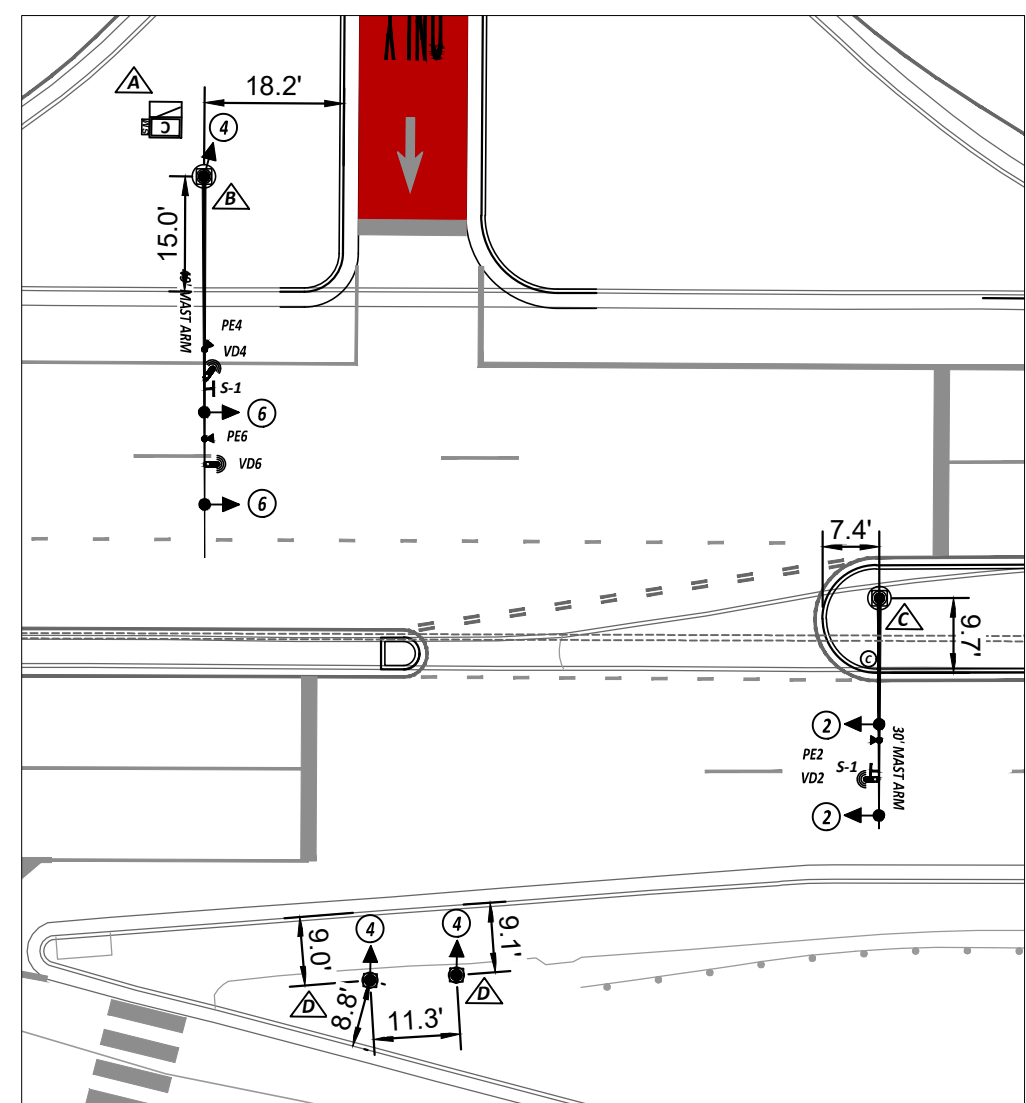
S-1
R3-3
36"X36"

CONSTRUCTION NOTES

- INSTALL SIGNAL CONTROLLER CABINET AND FOUNDATION. INSTALL CALIX 716GE OPTICAL NETWORK TERMINAL ETHERNET SWITCH IN SIGNAL CONTROLLER CABINET. CABINET SHALL BE ORIENTED SO THAT TECHNICIAN HAS VIEW OF SIGNAL DISPLAYS.
- INSTALL CABINET MOUNTED METER BASE PER VDOT STD. SE-6.
- INSTALL MAST ARM SIGNAL POLE WITH TRAFFIC SIGNAL HEADS, VIDEO DETECTION, VEHICLE PREEMPTION, AND SIGN.
- INSTALL VDOT STD. PF-2 WITH 3-SECTION SIGNAL HEAD. MOUNT SIGNAL HEAD ACCORDING TO VDOT STD. SMB-1.
- DESIGN OF NEW SIDEWALK, CURB RAMPS, AND CURB AND GUTTER ARE SHOWN BEGINNING ON SHEET C-101.
- DESIGN OF NEW PAVEMENT MARKINGS ARE SHOWN BEGINNING ON SHEET C-601.
- CONTRACTOR TO CONFIRM WITH THE CITY THAT FIBER HAS BEEN INSTALLED IN THEIR ITS PHASE III AND IV INTEGRATION PROJECT AND PULL SLACK TO INSTALL FULL SPLICE IN EXISTING JUNCTION BOX FOR COMMUNICATIONS AT THE S. VAN DORN/EISENHOWER INTERSECTION. FIBER LINE WILL RUN AT THE LOCATION OF THE EXISTING COPPER COMM CABLE.
- EXISTING GUIDE SIGN TO BE REPLACED. REFER TO SHEET C-602.
- CONTRACTOR TO INSTALL TRANSIT SIGNAL PRIORITY EQUIPMENT. SEE SHEETS C-916 THROUGH C-918.
- SIGNAL CONNECTION TO BE CONNECTED TO THE INTERSECTION AT S. VAN DORN AND EISENHOWER USING PON DROP CABLE CONNECTION TO EXISTING JUNCTION BOX ON SHEET 903A. PROPOSED PON DROP CABLE TO BE INSTALLED AT A MINIMUM OF 48" BELOW GROUND. CONTRACTOR TO CONFIRM WITH THE CITY PRIOR TO CONSTRUCTION.

POLE LOCATION DETAIL - SOUTHWEST CORNER

(SCALE: 1" = 10')

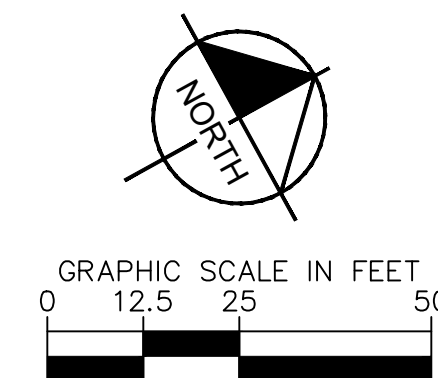


SIGNAL POLE AND CONTROLLER LEGEND:

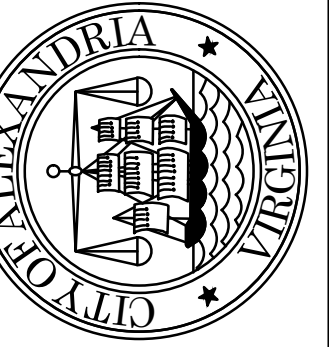
- CONTROLLER CABINET AND FOUNDATION (CF-3)
- MAST ARM POLE (MP-3) TYPE A
49' MAST ARM
SIGNAL PLACEMENT: 31', 43'
SIGN PLACEMENT: 28'
VIDEO DETECTION PLACEMENT: 26', 37'
EMERGENCY VEHICLE PREEMPTION PLACEMENT: 22', 34'
- MAST ARM POLE (MP-3) TYPE A
30' MAST ARM
SIGNAL PLACEMENT: 16', 28'
SIGN PLACEMENT: 22'
VIDEO DETECTION PLACEMENT: 23'
EMERGENCY VEHICLE PREEMPTION PLACEMENT: 18'
- 10' PEDESTAL POLE (PF-2) - 2 TOTAL

LEGEND

	EXISTING	PROPOSED
Controller Cabinet		
Signal Junction Box (VDOT Std. JB-S2)		
Signal Junction Box (VDOT Std. JB-S3)		
Comm. Junction Box (VDOT Std. JB-S2)		
Comm. Junction Box (VDOT Std. JB-S3)		
Service Junction Box (VDOT Std. JB-S2)		
Mast Arm Pole & Foundation		
Pedestrian Pedestal Pole & Foundation		
Carlyle Lighting Pole & Foundation		
Service Meter		
Battery Backup (UPS)		
Vehicle Signal Head (LED)		
Pedestrian Push Button		
Video Detection Camera		
Emergency Vehicle Preemption		
CCTV Camera		
Overhead Light (LED)		
Conduit		
Video Detection Zone (6' X 40')		



90% DESIGN PHASE



CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

REVISIONS	DESCRIPTION
BY	
DATE	

ALEXANDRIA PROJECT NO.:	110104122
DATE OF PLAN ISSUANCE:	N/A
CONSULTANT PROJECT ID.:	N/A
DESIGNED BY:	RY DATE: 11/29/23
DRAWN BY:	RY DATE: 11/29/23
CHECKED BY:	DCM DATE: 11/29/23
APPROVED BY:	DATE:

WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

TRAFFIC SIGNAL PLANS -
 VAN DORN ST AT METRO RD

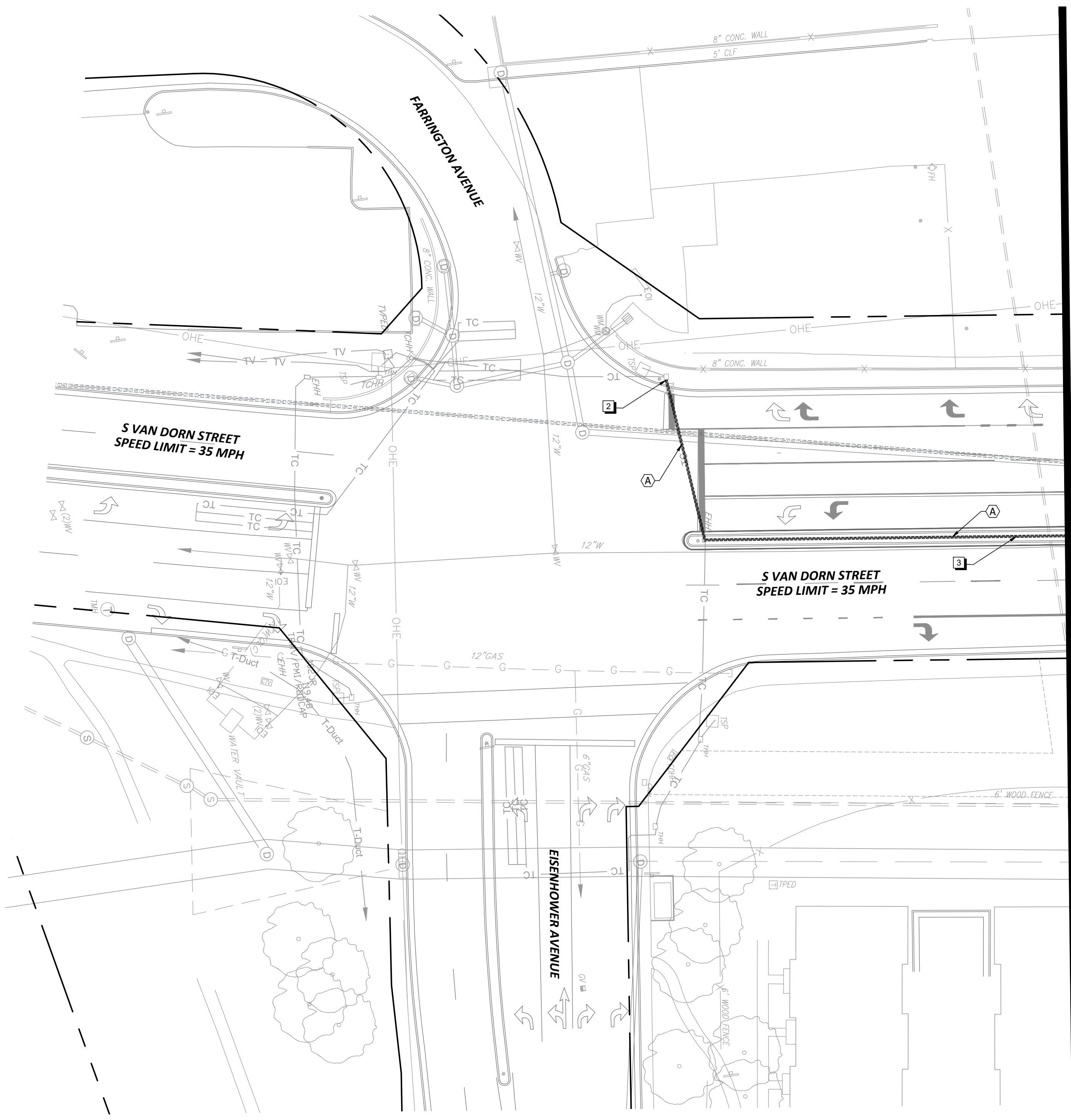
SHEET C-903

SCALE 1" = 25'

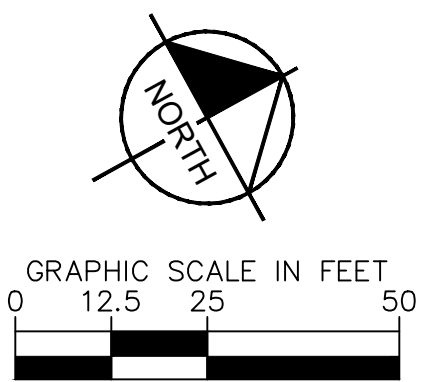
Plotted By: LdShier, Richard Sheet Set: West End Transitway - Phase 1 Layout: TRAFFIC SIGNAL PLANS - VAN DORN ST AT EISENHOWER AVE July 11, 2024 06:21:57pm K:\VVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\SIGNAL_PLANS_VAN_DORN.dwg

CONDUIT & CABLE LEGEND

- A 1-2" CONDUIT (BORED) HDPE
- 1-PON DROP CABLE



MATCHLINE SEE SHEET C-903



LEGEND

	EXISTING	PROPOSED
Controller Cabinet		
Signal Junction Box (VDOT Std. JB-S2)		
Signal Junction Box (VDOT Std. JB-S3)		
Comm. Junction Box (VDOT Std. JB-S2)		
Comm. Junction Box (VDOT Std. JB-S3)		
Service Junction Box (VDOT Std. JB-S2)		
Mast Arm Pole & Foundation		
Pedestrian Pedestal Pole & Foundation		
Carlyle Lighting Pole & Foundation		
Service Meter		
Battery Backup (UPS)		
Vehicle Signal Head (LED)		
Pedestrian Push Button		
Video Detection Camera		
Emergency Vehicle Preemption		
CCTV Camera		
Overhead Light (LED)		
Conduit		
Video Detection Zone (6' X 40')		

CONSTRUCTION NOTES

- 1** CONTRACTOR TO CONFIRM WITH THE CITY THAT FIBER HAS BEEN INSTALLED IN THEIR ITS PHASE III AND IV INTEGRATION PROJECT AND PULL SLACK TO INSTALL FULL SPLICE IN EXISTING JUNCTION BOX FOR COMMUNICATIONS AT THE S. VAN DORN/EISENHOWER INTERSECTION. FIBER LINE WILL RUN AT THE LOCATION OF THE EXISTING COPPER COMM CABLE.
- 2** USE EXISTING SPLICE ENCLOSURE IN THE EXISTING JB-S3. SEE SPLICE DETAIL ON SHEET C-903B.
- 3** PROPOSED PON DROP CABLE TO BE INSTALLED AT A MINIMUM OF 48" BELOW GROUND. CONTRACTOR TO CONFIRM WITH THE CITY PRIOR TO CONSTRUCTION.

WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

TRAFFIC SIGNAL PLANS -
VAN DORN ST AT EISENHOWER
AVE

SHEET
C-903A
SCALE 1" = 25'

90% DESIGN PHASE

CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

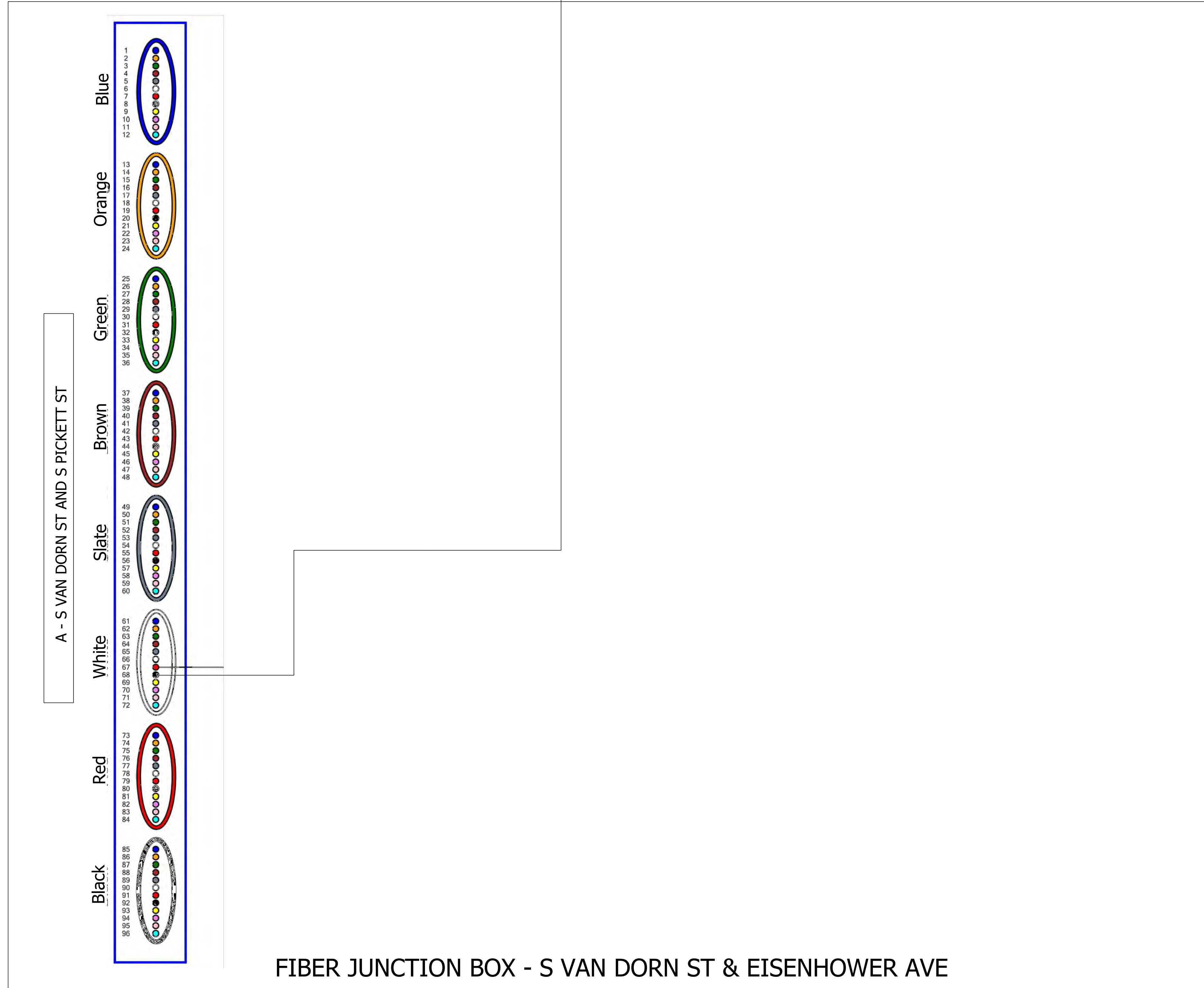
REVISIONS	DATE	DESCRIPTION

ALEXANDRIA PROJECT NO.:	110104122
DATE OF PLAN ISSUANCE:	N/A
CONSULTANT PROJECT ID.:	N/A
DESIGNED BY:	VALUE DATE: 11/29/23
DRAWN BY:	VALUE DATE: 11/29/23
CHECKED BY:	VALUE DATE: 11/29/23
APPROVED BY:	DATE:



CONSTRUCTION NOTE

- 1 SPlice DIAGRAM SHOWN REFERENCED FROM ITS PHASE III PLANS FROM THE CITY.
- 2 CONTRACTOR TO CONFIRM THAT THE CITY OF ALEXANDRIA ITS PHASE II-IV PLANS HAVE BEEN BUILT AND THAT SPlice DIAGRAM SHOWN IN THIS SHEET MATCHES WITH EXISTING CONDITIONS. CONTRACTOR TO CONFIRM FIBER CONNECTIONS WITH THE CITY PRIOR TO THE INSTALLATION.



LEGEND	
■	A - BFO 96 to Pullbox @ S Van Dorn & S Courtney

FOR THE PURPOSES OF CLARITY ONLY ACTIVE FIBERS IN PON NETWORK ARCHITECTURE ARE SHOWN AS CONNECTED IN SECTION 8 OF THESE PLANS. ACTIVE CCTV NETWORK ARCHITECTURE IS SHOWN ELSEWHERE. ALL UNUSED FIBERS SHOULD BE ASSIGNED TO BE EXPRESS THRU.

Plotted By: LdShier, Richard Sheet Set: West End Transitway - Phase 1 Layout: SPlicing DIAGRAM VAN DORN ST AT EISENHOWER AVE July 11, 2024 06:22:58pm K:\NVA_Transit\110104122_West_End_Transitway_Design\CADD\PlanSheets\COMMUNICATIONS_PLANS.dwg

WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

TRAFFIC SIGNAL PLANS -
SPlicing DIAGRAM
VAN DORN ST AT
EISENHOWER AVE

SHEET
C-903B
SCALE N/A

REVISIONS	DESCRIPTION
DATE	BY

DATE	BY	DESCRIPTION

ALEXANDRIA PROJECT NO.:	110104122
DATE OF PLAN ISSUANCE:	N/A
CONSULTANT PROJECT ID.:	N/A
DESIGNED BY:	
DATE:	
DRAWN BY:	
DATE:	
CHECKED BY:	
DATE:	
APPROVED BY:	
DATE:	

CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

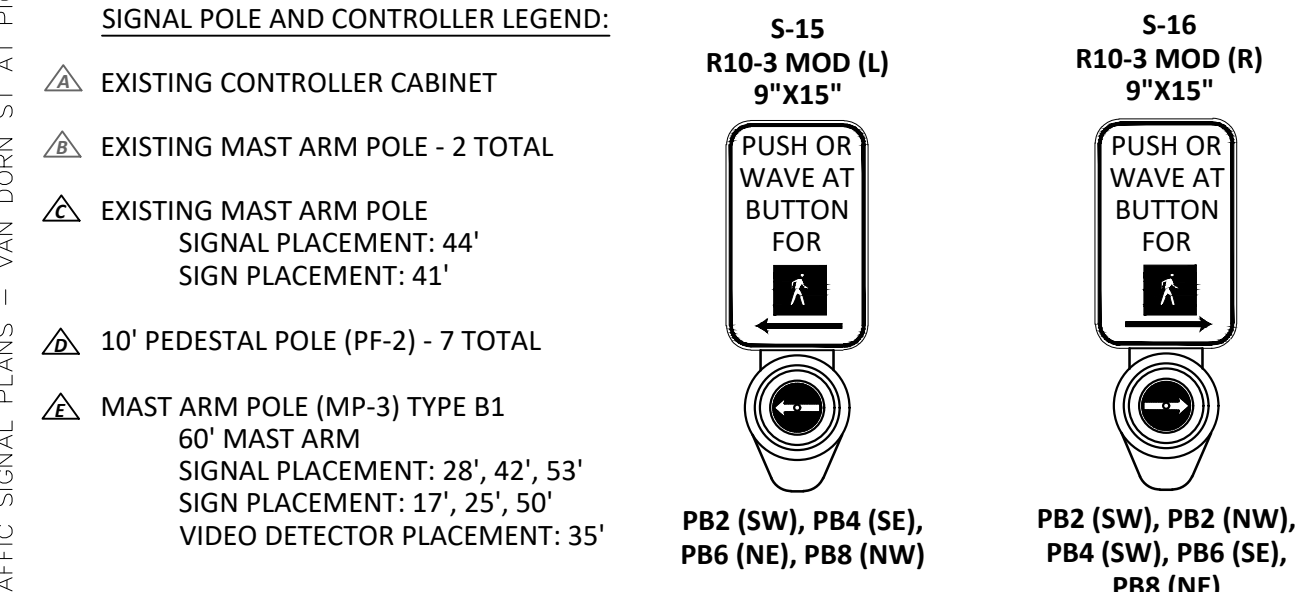
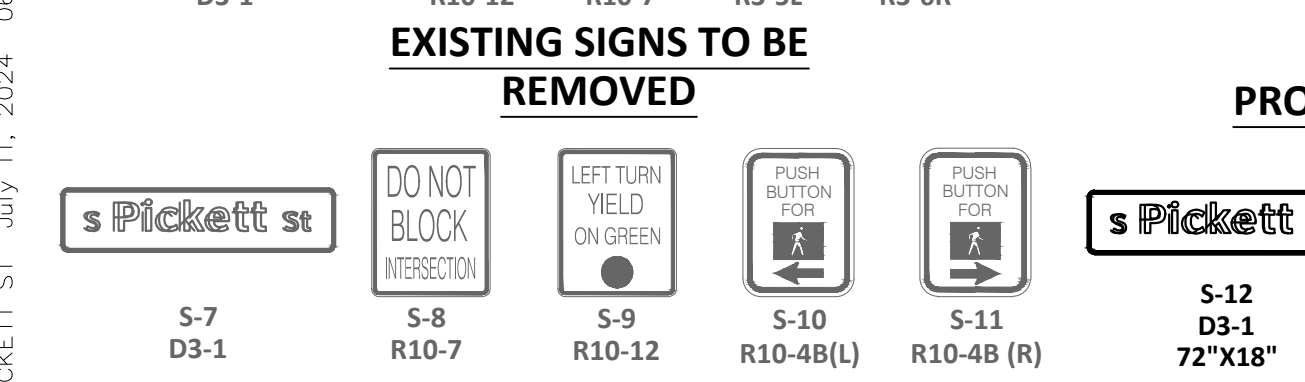
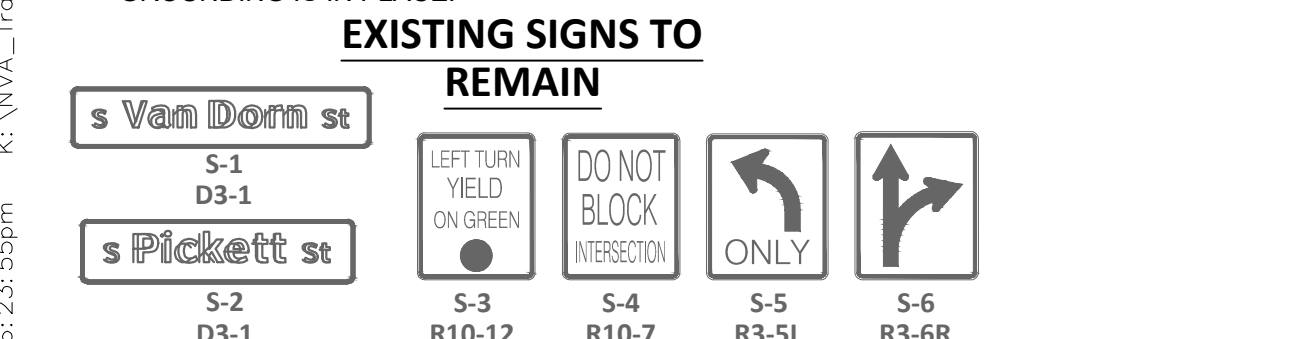


Plotted By: LoShier, Richard Sheet Set: West End Transitway - Phase 1 Layout: TRAFFIC SIGNAL PLANS - VAN DORN ST AT PICKETT ST July 11, 2024 08:23:55pm K:\NVA_Transit\110104122\West End Transitway Design\CADD\PlanSheets\SIGNAL PLANS VAN DORN.dwg

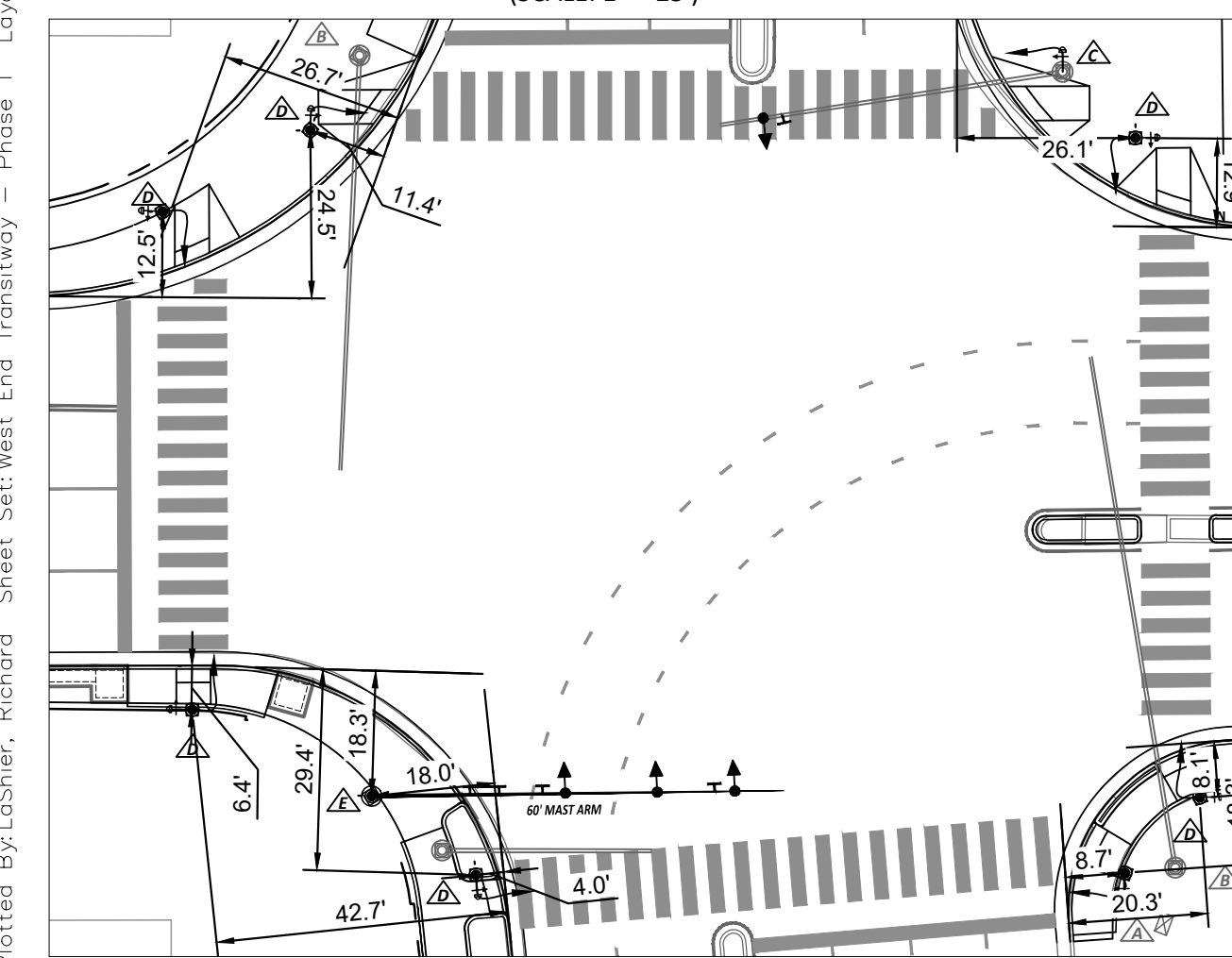
CONDUIT & CABLE LEGEND

- (A)** 1-3" CONDUIT (TRENCHED) PVC
1-14/5c PEDESTRIAN SIGNAL HEAD P8
1-14/2c PEDESTRIAN PUSH BUTTON PB8
1-#6 AWG
- (B)** EXISTING CONDUIT(S)
2-14/7c TRAFFIC SIGNAL HEADS 3, 8
1-14/2c ILLUMINATED STREET NAME SIGN
1-VIDEO DETECTOR CABLE VD3, VD8
- (C)** EXISTING CONDUIT(S)
2-14/7c TRAFFIC SIGNAL HEADS 3, 8
2-14/5c PEDESTRIAN SIGNAL HEADS P2, P8
2-14/2c PEDESTRIAN PUSH BUTTONS PB2, PB8
1-14/2c ILLUMINATED STREET NAME SIGN
1-VIDEO DETECTOR CABLE VD3, VD8
- (D)** 1-3" CONDUIT (TRENCHED) PVC
2-14/7c TRAFFIC SIGNAL HEADS 2, 5
1-VIDEO DETECTOR CABLE VD2, VD5
1-#6 AWG
- (E)** 1-3" CONDUIT (TRENCHED) PVC
1-14/5c PEDESTRIAN SIGNAL HEAD P4
1-14/2c PEDESTRIAN PUSH BUTTON PB4
1-#6 AWG
- (F)** EXISTING CONDUIT(S)
ALL CABLES
- (G)** EXISTING CONDUIT(S)
2-14/7c TRAFFIC SIGNAL HEADS 3, 8
4-14/5c PEDESTRIAN SIGNAL HEADS P2, P4, P8
4-14/2c PEDESTRIAN PUSH BUTTONS PB2, PB4, P8, P88
1-14/2c ILLUMINATED STREET NAME SIGN
1-VIDEO DETECTOR CABLE VD3, VD8
1-VIDEO DETECTOR CABLE VD2, VD5
- (H)** EXISTING CONDUIT(S)
2-14/7c TRAFFIC SIGNAL HEADS 1, 6
1-14/5c PEDESTRIAN SIGNAL HEAD P8
1-14/2c PEDESTRIAN PUSH BUTTON PB8
1-14/2c ILLUMINATED STREET NAME SIGN
1-VIDEO DETECTOR CABLE VD1, VD6
- (I)** 1-3" CONDUIT (TRENCHED) PVC
1-14/5c PEDESTRIAN SIGNAL HEAD P6
1-14/2c PEDESTRIAN PUSH BUTTON PB6
1-#6 AWG
- (J)** EXISTING CONDUIT(S)
2-14/7c TRAFFIC SIGNAL HEADS 1, 6
1-14/5c PEDESTRIAN SIGNAL HEAD P8
1-14/2c PEDESTRIAN PUSH BUTTON PB8
1-14/5c PEDESTRIAN SIGNAL HEADS P6
1-14/2c PEDESTRIAN PUSH BUTTONS PB6
1-14/2c ILLUMINATED STREET NAME SIGN
1-VIDEO DETECTOR CABLE VD1, VD6
- (K)** EXISTING CONDUIT(S)
2-14/7c TRAFFIC SIGNAL HEADS 4, 7
1-14/2c ILLUMINATED STREET NAME SIGN
1-VIDEO DETECTOR CABLE VD4, VD7
1-VIDEO DETECTOR CABLE (360 CAMERA)
- (L)** EXISTING CONDUIT(S)
ALL CABLES

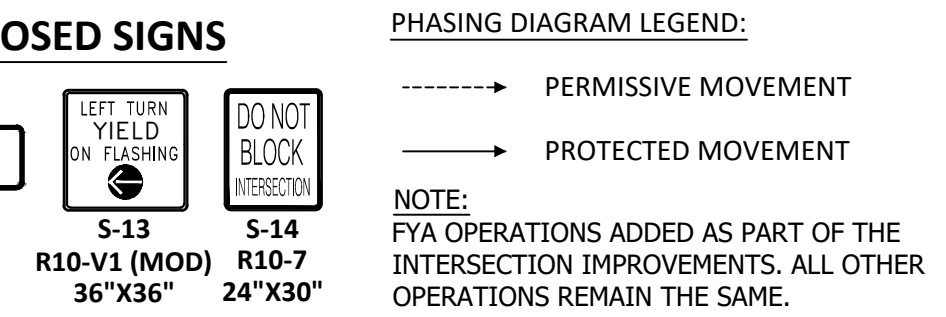
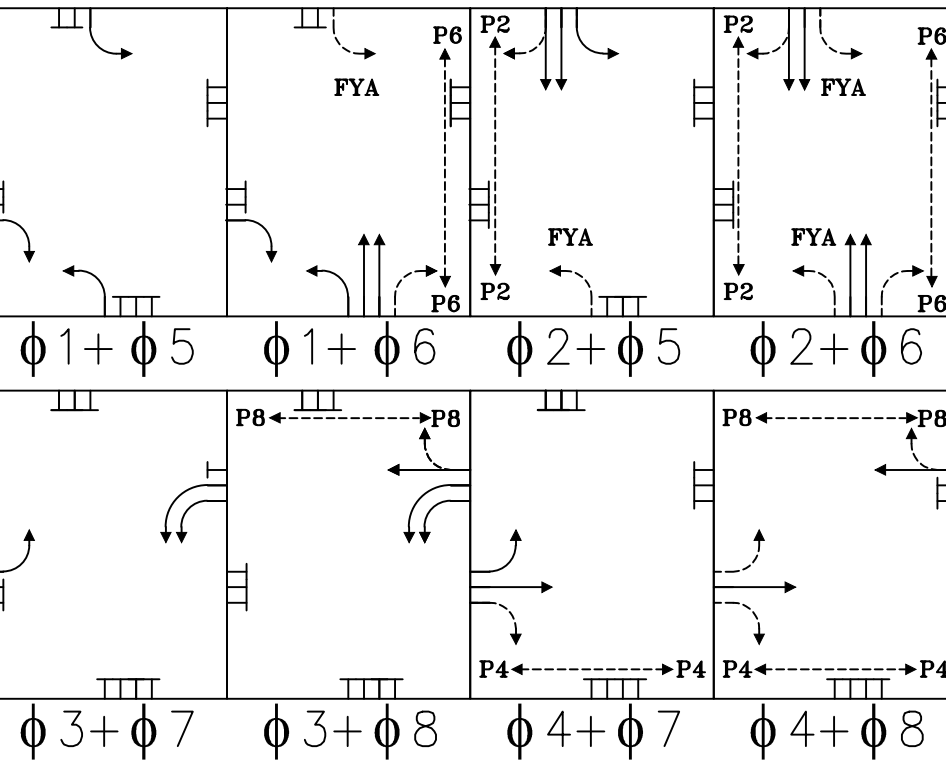
- LEGEND:**
 EXISTING CABLE TO REMAIN
 EXISTING CABLE TO BE REMOVED
 PROPOSED CABLE/CONDUIT TO BE INSTALLED
- NOTES:**
 1. EXISTING CABLES AND CONDUITS ARE BASED ON AVAILABLE INFORMATION AND MAY DIFFER IN FIELD.
 2. CONTRACTOR SHALL VERIFY PRIOR TO BEGINNING WORK.
 3. CONTRACTOR SHALL REMOVE UNUSED SIGNAL CABLE FROM EXISTING CONDUITS IF IT IS NO LONGER BEING USED TO SUPPORT NEW SIGNAL EQUIPMENT.
 4. THESE PLANS ASSUME THAT APPROPRIATE CONDUIT AND JUNCTION BOX GROUNDING IS IN PLACE.



POLE LOCATION DETAIL (SCALE: 1" = 25')



EXISTING AND PROPOSED PHASING DIAGRAM



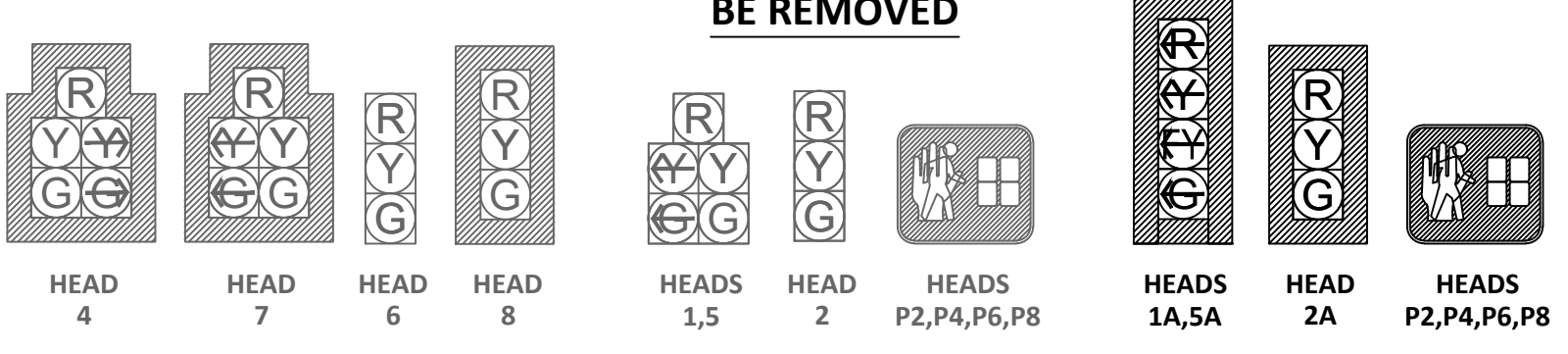
PROPOSED ACCESSIBLE PEDESTRIAN PUSHBUTTON

PUSHBUTTON ON (QUADRANT)	SPEECH PB INFORMATION MESSAGE	AUDIBLE WALK INDICATION
PB2 (SW), PB2(NW), PB6 (NE)	WAIT TO CROSS PICKETT AT SOUTH VAN DORN.	PERCUSSIVE TONE
PB4 (SW), PB8 (NE), PB8 (NW)	WAIT TO CROSS SOUTH VAN DORN AT PICKETT.	PERCUSSIVE TONE
PB6 (SE)	WAIT TO CROSS PICKETT AT SOUTH VAN DORN.	PICKETT, WALK SIGN IS ON TO CROSS PICKETT.
PB4 (SE)	WAIT TO CROSS SOUTH VAN DORN AT PICKETT.	SOUTH VAN DORN, WALK SIGN IS ON TO CROSS SOUTH VAN DORN.

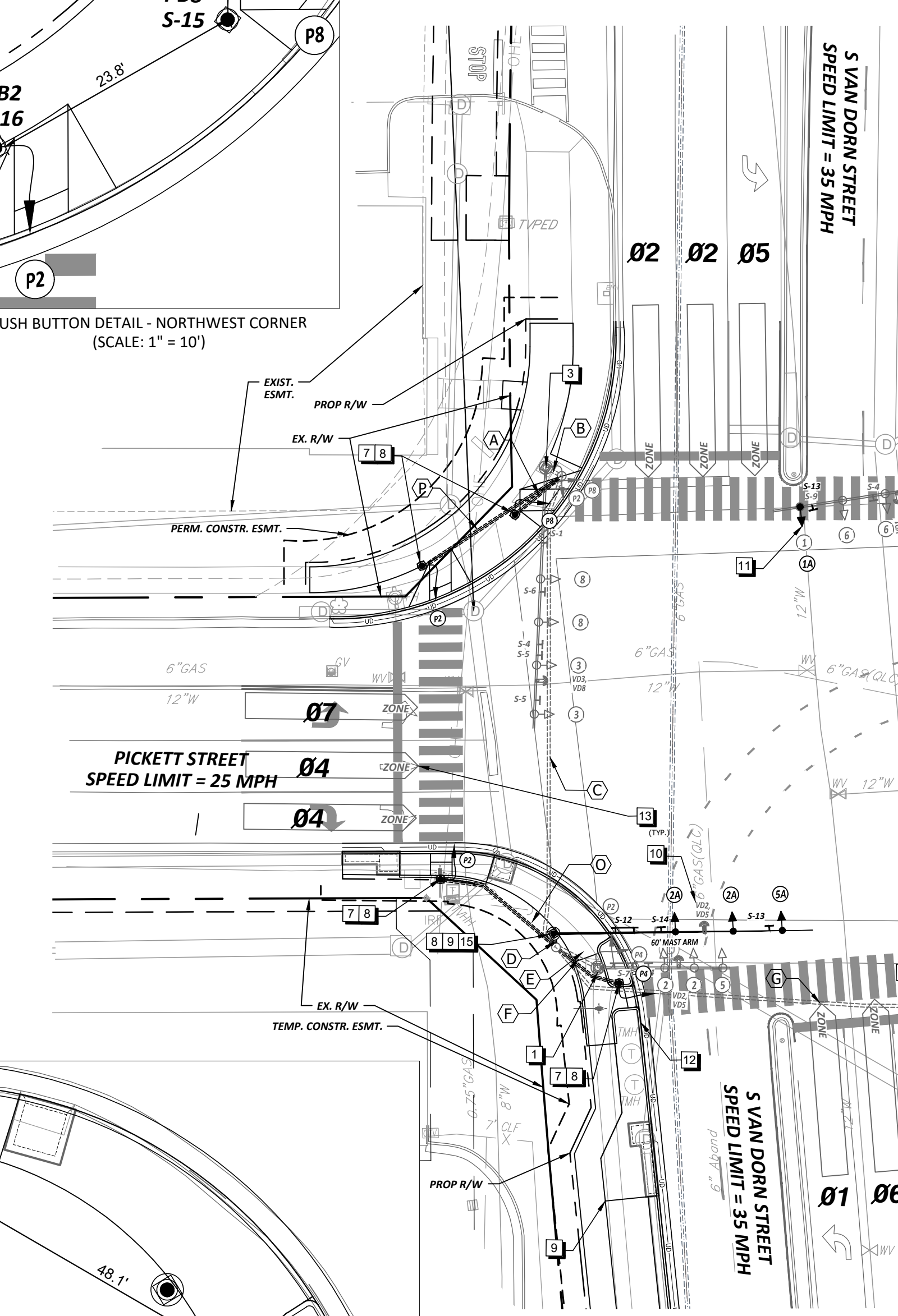
COLOR SEQUENCE CHART

PHASE	1	2	3	4	5	6	7	8	1+5	1+6	2+5	2+6	3+7	3+8	4+7	4+8	FLASH
SIGNAL R/W	R/W	R/W	R/W	R/W	R/W	R/W	R/W	R/W	R/W	R/W	R/W	R/W	R/W	R/W	R/W	R/W	Y
1	<G								<G	<G	<Y	<Y					<Y
2		G															Y
3			<G										<G	<G			<R
4	R	<G		G				R	R	R					G	G	R
5				<G				<G	<Y	<Y	<Y						<Y
6					G												Y
7						G							<G	<G	G	R	
8							G										R
P2		W*								W*	W*						G DARK
P4				W*											W*	W*	DARK
P6					W*												DARK
P8						W*								W*	W*		DARK

EXISTING SIGNALS TO REMAIN **EXISTING SIGNALS TO BE REMOVED** **PROPOSED SIGNALS**



NOTES:
 1. ALL TRAFFIC SIGNAL HEAD SECTIONS SHALL BE 12" LEDS.
 2. ALL VEHICLE SIGNALS SHALL BE EQUIPPED WITH POLYCARBONATE BACKPLATES WITH RETROREFLECTIVE BORDERS (EXISTING AND PROPOSED).



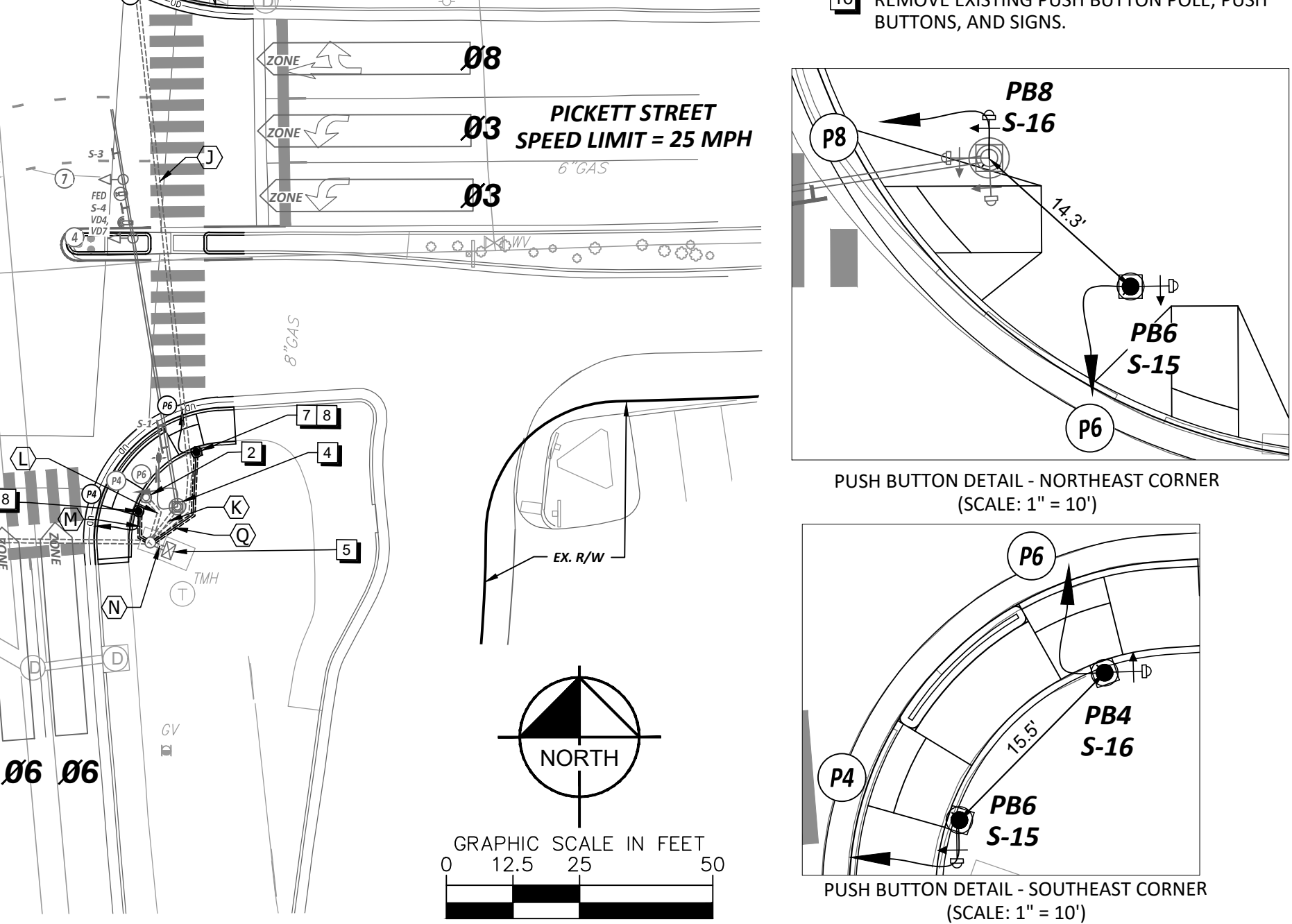
INITIAL TIMING CHART

PHASE	1	2	3	4	5	6	7	8
MOVEMENT	NB LT N VAN DORN	SB N VAN DORN	WB LT PICKETT	EB PICKETT	SB LT N VAN DORN	NB N VAN DORN	EB LT PICKETT	WB PICKETT
PHASE ON	X	X	X	X	X	X	X	X
PHASE OFF								
MIN GR	10.0	8.0	5.0	7.0	5.0	8.0	5.0	7.0
PASSAGE	3.0	2.0	3.0	1.0	3.0	3.0	4.0	1.0
YELLOW	4.7	4.7	3.0	3.4	4.7	4.7	3.4	3.4
RED	3.3	3.3	3.9	3.7	3.3	3.3	3.7	3.7
MAX 1	25.0	40.0	15.0	15.0	15.0	40.0	12.0	15.0
MAX 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MIN GAP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TIME BEFORE REDUCTION	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TIME TO REDUCE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PED WALK	0.0	4.0	0.0	4.0	0.0	4.0	0.0	4.0
PED CLEARANCE	0.0	12.0	0.0	19.0	0.0	18.0	0.0	21.0
MODE	NON-LOCK	MAX RECALL	NON-LOCK	NON-LOCK	NON-LOCK	MAX RECALL	NON-LOCK	NON-LOCK

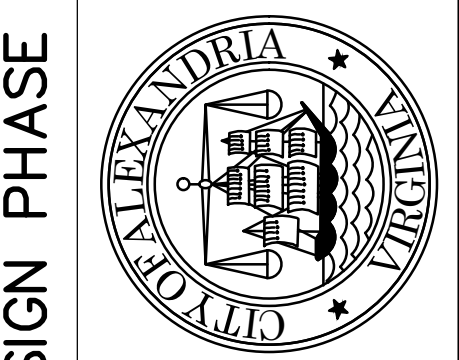
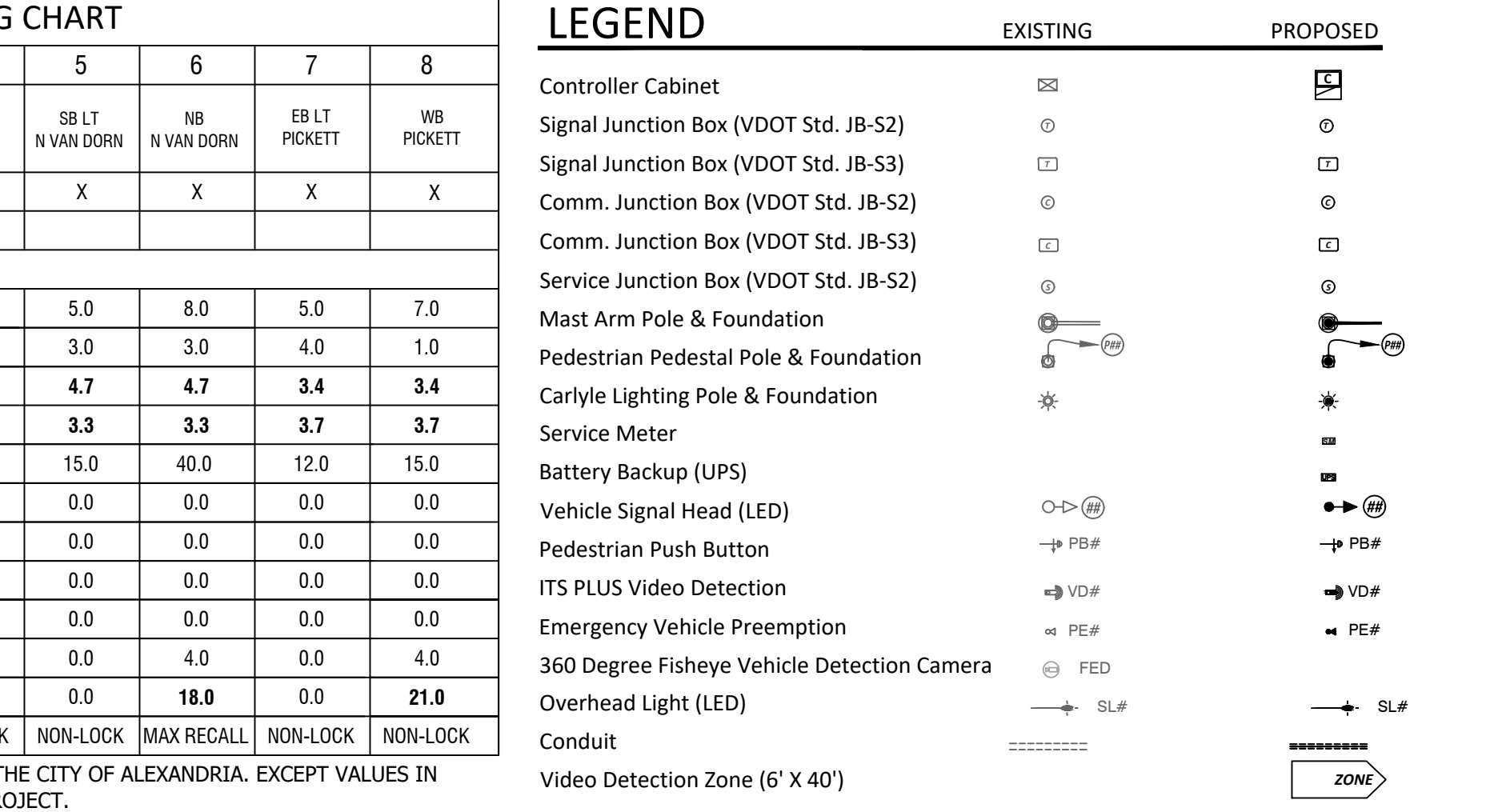
NOTE: TIMINGS SHOWN ARE EXISTING AND OBTAINED FROM THE CITY OF ALEXANDRIA, EXCEPT VALUES IN BOLD, WHICH WERE CHANGED OR ADDED AS PART OF THIS PROJECT.

CONSTRUCTION NOTES

- 1 REMOVE EXISTING TRAFFIC SIGNAL POLE, SIGNALS, AND SIGNS. REMOVE EXISTING FOUNDATION TO A MINIMUM DEPTH OF 24" BELOW GRADE.
- 2 REMOVE EXISTING PEDESTAL POLE, PUSHBUTTONS, SIGNS, AND FOUNDATION.
- 3 REMOVE EXISTING PEDESTRIAN SIGNALS, PUSHBUTTONS, AND SIGNS.
- 4 REMOVE EXISTING PEDESTRIAN SIGNALS.
- 5 EXISTING SIGNAL CABINET TO REMAIN.
- 6 INSTALL PEDESTRIAN SIGNAL, ACCESSIBLE PEDESTRIAN SIGNAL PUSH BUTTON, AND SIGN ON EXISTING SIGNAL POLE.
- 7 INSTALL VDOT STD. PF-2 WITH PEDESTRIAN SIGNAL(S), ACCESSIBLE PEDESTRIAN SIGNAL PUSH BUTTON(S), AND SIGN(S).
- 8 CONTRACTOR TO ENSURE POLE FOUNDATION IS FLUSH WITH SIDEWALK GRADE WHEN INSTALLED ON OR ADJACENT TO SIDEWALK. INCORPORATE POLE FOUNDATION INTO CG-2 WHEN INSTALLED ADJACENT TO CURB RAMP.
- 9 INSTALL MAST ARM SIGNAL POLE WITH TRAFFIC SIGNAL HEADS, VIDEO DETECTION, AND SIGNS.
- 10 CONTRACTOR TO RELOCATE EXISTING VIDEO DETECTION VD2, VD5 TO THE PROPOSED MAST ARM ON THE SOUTHWEST CORNER. REUSE EXISTING VIDEO DETECTION CABLE IF SUFFICIENT SLACK CABLE IS AVAILABLE.
- 11 REMOVE EXISTING 5-SECTION SIGNAL HEAD 1 AND R10-12 SIGN. INSTALL IN KIND PROPOSED 4-SECTION FLASHING YELLOW ARROW SIGNAL HEAD 1A AND R10-VI SIGN.
- 12 DESIGN OF NEW SIDEWALK, CURB RAMPS, AND CURB AND GUTTER ARE SHOWN BEGINNING ON SHEET C-101.
- 13 DESIGN OF NEW PAVEMENT MARKINGS ARE SHOWN BEGINNING ON SHEET C-601.
- 14 CONTRACTOR TO INSTALL TRANSIT SIGNAL PRIORITY EQUIPMENT. SEE SHEETS C-916 THROUGH C-918.
- 15 CONTRACTOR TO HAND DIG SIGNAL POLE FOUNDATION TO LOCATE EXISTING TRAFFIC SIGNAL CONDUITS. CONTRACTOR MAY ADJUST POLE LOCATION UP TO FIVE FEET NORTHWEST IF CONFLICTS ARE IDENTIFIED. MAINTAIN POLE LOCATION AT THE BACK OF CURB, INCORPORATING THE POLE FOUNDATION INTO THE CG-2.
- 16 REMOVE EXISTING PUSH BUTTON POLE, PUSH BUTTONS, AND SIGNS.



LEGEND



CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

REVISIONS

DATE	DESCRIPTION

ALEXANDRIA PROJECT NO.: 110104122
 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: RY DATE: 11/29/23
 DRAWN BY: RY DATE: 11/29/23
 CHECKED BY: DCM DATE: 11/29/23
 APPROVED BY: DATE:

WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

TRAFFIC SIGNAL PLANS - VAN DORN ST AT PICKETT ST

SHEET C-904
 SCALE 1" = 25'

Plotted By: LoShier, Richard Sheet Set: West End Transitway - Phase 1 Layout: TRAFFIC SIGNAL PLANS - VAN DORN ST AT STEVENSON AVE July 11, 2024 06:25:09pm K:\NVA_Transit\110104122_West_End_Transitway_Design\CADD\PlanSheets\SIGNAL_PLANS_VAN_DORN.DWG

CONDUIT & CABLE LEGEND

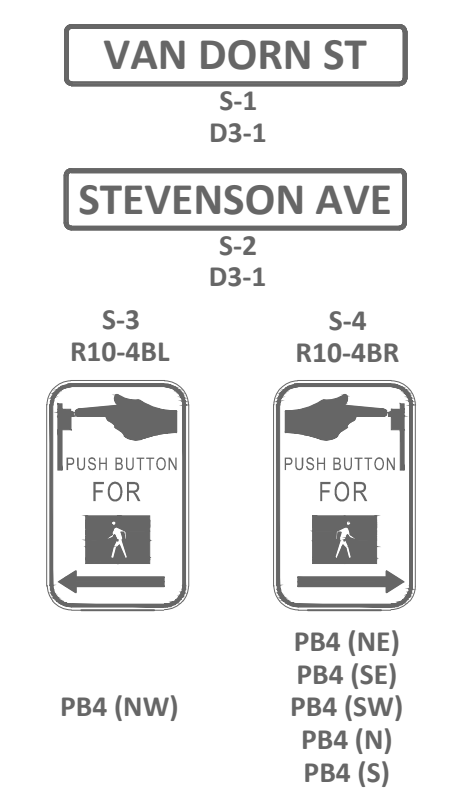
- (A)** 1-3" CONDUIT (TRENCHED) PVC
1-14/7c TRAFFIC SIGNAL HEAD 4
1-14/5c PEDESTRIAN SIGNAL HEAD P2
1-14/2c PEDESTRIAN PUSH BUTTON PB2
1-VIDEO DETECTOR CABLE VD4
1-#6 AWG
- (B)** 1-3" CONDUIT (TRENCHED) PVC
1-14/5c PEDESTRIAN SIGNAL HEAD P4
1-14/2c PEDESTRIAN PUSH BUTTON PB4
1-#6 AWG
- (C)** 1-3" CONDUIT (BORED) HDPE
1-14/7c TRAFFIC SIGNAL HEAD 4
2-14/5c PEDESTRIAN SIGNAL HEADS P2, P4
2-14/2c PEDESTRIAN PUSH BUTTONS PB2, PB4
1-VIDEO DETECTOR CABLE VD4
1-#6 AWG
- (D)** 1-3" CONDUIT (TRENCHED) PVC
2-14/5c PEDESTRIAN SIGNAL HEADS P4
1-14/2c PEDESTRIAN PUSH BUTTON PB4
1-#6 AWG
- (E)** 1-2" CONDUIT (TRENCHED) HDPE
1-PON DROP CABLE AND CAMERA CABLE
1-#6 AWG
- (F)** 2-3" CONDUIT (BORED) HDPE
1-14/7c TRAFFIC SIGNAL HEAD 4
4-14/5c PEDESTRIAN SIGNAL HEADS P2, P4
3-14/2c PEDESTRIAN PUSH BUTTONS PB2, PB4
1-VIDEO DETECTOR CABLE VD4
2-#6 AWG
- (G)** 1-2" CONDUIT (BORED) HDPE
1-12 STRAND PON DROP CABLE
1-OPTICOM CABLE PE4
1-#6 AWG
- (H)** 1-3" CONDUIT (TRENCHED) PVC
2-14/7c TRAFFIC SIGNAL HEADS 1, 6
1-14/5c PEDESTRIAN SIGNAL HEAD P6
1-14/2c PEDESTRIAN PUSH BUTTON PB6
1-VIDEO DETECTOR CABLE VD1, VD6
1-#6 AWG
- (I)** 2-3" CONDUIT (BORED) HDPE
3-14/7c TRAFFIC SIGNAL HEADS 1, 4, 6
6-14/5c PEDESTRIAN SIGNAL HEADS P2, P4, P6
5-14/2c PEDESTRIAN PUSH BUTTONS PB2, PB4, PB6
2-VIDEO DETECTOR CABLES VD1, VD4, VD6
2-#6 AWG
- (J)** 1-3" CONDUIT (TRENCHED) PVC
1-14/7c TRAFFIC SIGNAL HEAD 8
1-14/5c PEDESTRIAN SIGNAL HEAD P6
1-14/2c PEDESTRIAN PUSH BUTTON PB6
1-VIDEO DETECTOR CABLE VD8
1-#6 AWG
- (K)** 1-3" CONDUIT (TRENCHED) PVC
1-14/5c PEDESTRIAN SIGNAL HEAD P8
1-14/2c PEDESTRIAN PUSH BUTTON PB8
1-#6 AWG
- (L)** 1-3" CONDUIT (TRENCHED) PVC
1-14/5c PEDESTRIAN SIGNAL HEAD P2
1-14/2c PEDESTRIAN PUSH BUTTON PB2
1-#6 AWG
- (M)** 1-3" CONDUIT (TRENCHED) PVC
1-14/5c PEDESTRIAN SIGNAL HEAD P8
1-14/2c PEDESTRIAN PUSH BUTTON PB8
1-#6 AWG
- (N)** 1-3" CONDUIT (TRENCHED) PVC
2-14/7c TRAFFIC SIGNAL HEADS 2, 5
1-VIDEO DETECTOR CABLE VD2, VDS
1-#6 AWG
- (O)** 2-3" CONDUIT (BORED) HDPE
2-14/7c TRAFFIC SIGNAL HEADS 2, 5
2-14/5c PEDESTRIAN SIGNAL HEADS P2, P8
2-14/2c PEDESTRIAN PUSH BUTTONS PB2, PB8
1-VIDEO DETECTOR CABLE VD2, VDS
2-#6 AWG
- (P)** 1-3" CONDUIT (TRENCHED) PVC
2-14/5c PEDESTRIAN SIGNAL HEADS P8
1-14/2c PEDESTRIAN PUSH BUTTON PB8
1-#6 AWG
- (Q)** 2-3" CONDUIT (BORED) HDPE
2-14/7c TRAFFIC SIGNAL HEADS 2, 5
4-14/5c PEDESTRIAN SIGNAL HEADS P8
3-14/2c PEDESTRIAN PUSH BUTTONS PB8
1-VIDEO DETECTOR CABLE VD2, VDS
2-#6 AWG
- (R)** 3-3" CONDUIT (TRENCHED) PVC
6-14/7c TRAFFIC SIGNAL HEADS 1, 2, 4, 5, 6, 8
12-14/5c PEDESTRIAN SIGNAL HEADS P2, P4, P6, P8
10-14/2c PEDESTRIAN PUSH BUTTONS PB2, PB4, PB6, PB8
4-VIDEO DETECTOR CABLES VD1, VD2, VD4, VD5, VD6, VD8
1-#6 AWG
- (S)** 1-2" CONDUIT (TRENCHED) METAL
1-1,100 LB PULL ROPE

PROPOSED ACCESSIBLE PEDESTRIAN PUSHBUTTON

PUSHBUTTON (QUADRANT)	SPEECH PB INFORMATION MESSAGE	AUDIBLE WALK INDICATION
PB2 (NE) PB2 (SE)	WAIT TO CROSS DRIVEWAY AT SOUTH VAN DORN.	PERCUSSIVE TONE
PB6 (NW) PB6 (SW)	WAIT TO CROSS STEVENSON AT SOUTH VAN DORN.	PERCUSSIVE TONE
PB4 (SE,S,SW) PB8 (NE,N,NW)	WAIT TO CROSS SOUTH VAN DORN AT STEVENSON.	PERCUSSIVE TONE

R10-3 MOD (L) 9"X15"	R10-3 MOD (R) 9"X15"	R10-3 MOD (M) 9"X15"
PB2 (SE) PB4 (SE) PB6 (NW)	PB4 (SW) PB4 (NE) PB6 (SW) PB8 (NE)	PB4 (S) PB8 (N)

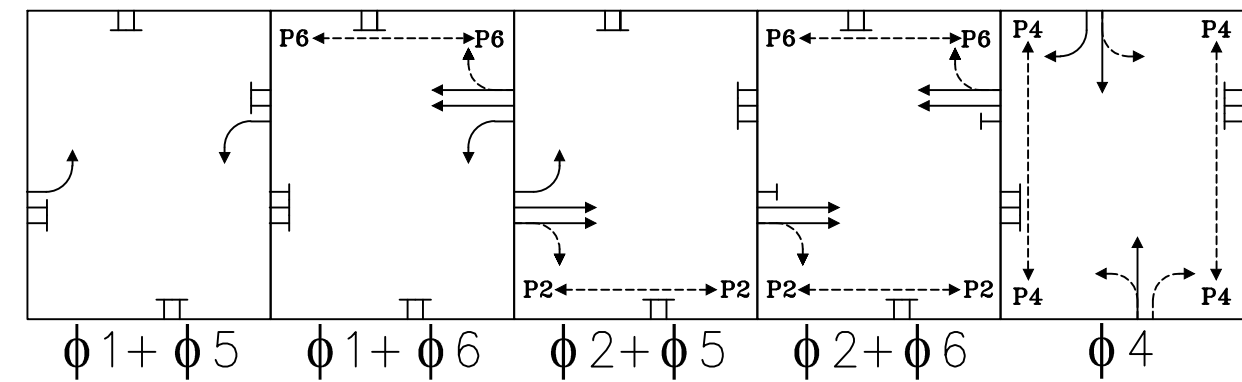
EXISTING SIGNS TO BE REMOVED



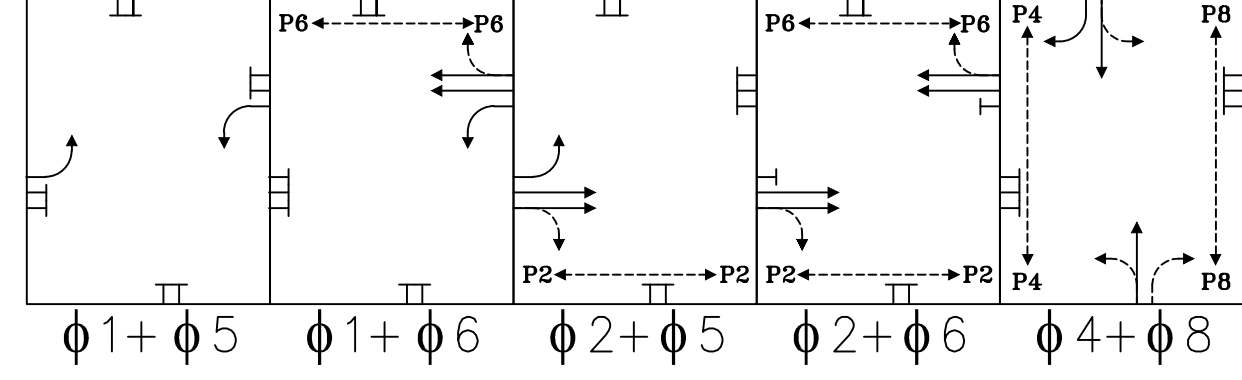
SIGNAL POLE AND CONTROLLER LEGEND:

- CONTROLLER CABINET AND FOUNDATION (CF-3)
- 10' PEDESTAL POLE (PF-2) - 7 TOTAL
- MAST ARM POLE (MP-3) TYPE A
30' MAST ARM
SIGNAL PLACEMENT: 17', 28'
SIGN PLACEMENT: 9', 12'
VIDEO DETECTION PLACEMENT: 24'
EMERGENCY VEHICLE PREEMPTION PLACEMENT: 21'
- MAST ARM POLE (MP-3) TYPE A
49' MAST ARM
SIGNAL PLACEMENT: 18', 31', 42'
SIGN PLACEMENT: 11'
VIDEO DETECTION PLACEMENT: 36'
EMERGENCY VEHICLE PREEMPTION PLACEMENT: 25'
- MAST ARM POLE (MP-3) TYPE C
49' MAST ARM
SIGNAL PLACEMENT: 12', 24'
SIGN PLACEMENT: 11'
VIDEO DETECTION PLACEMENT: 19'
EMERGENCY VEHICLE PREEMPTION PLACEMENT: 16'
- MAST ARM POLE (MP-3) TYPE A
30' MAST ARM
SIGNAL PLACEMENT: 28', 17'
SIGN PLACEMENT: 9'
VIDEO DETECTION PLACEMENT: 25'
EMERGENCY VEHICLE PREEMPTION PLACEMENT: 23'

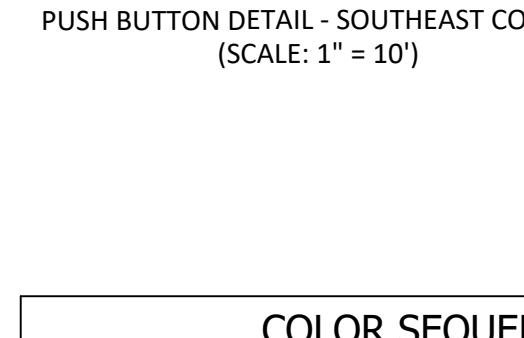
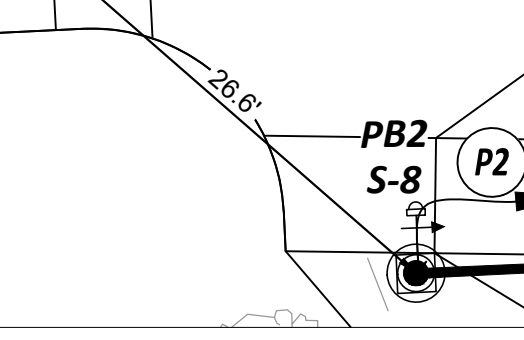
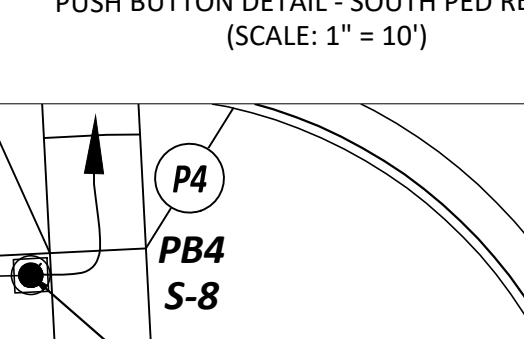
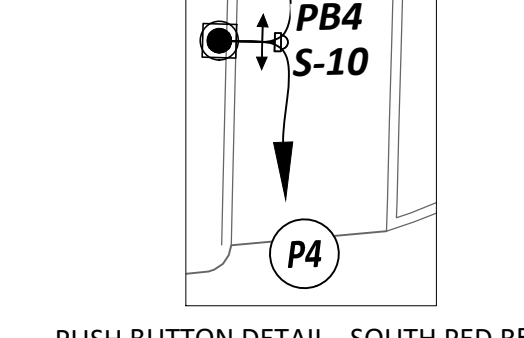
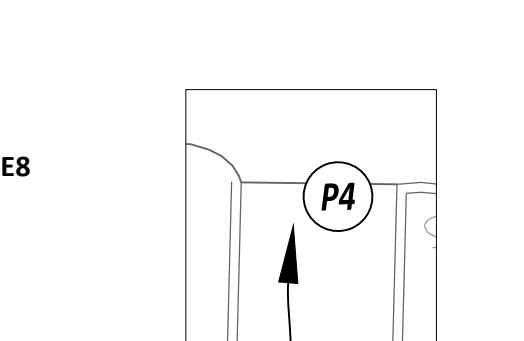
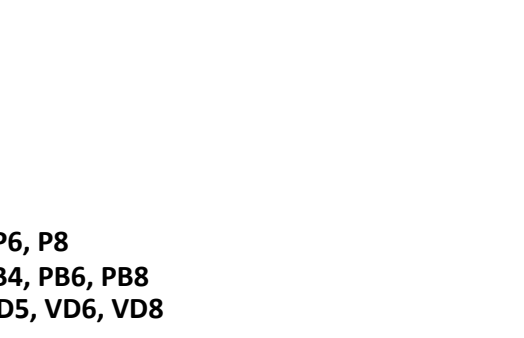
EXISTING PHASING DIAGRAM



PROPOSED PHASING DIAGRAM



PHASING DIAGRAM LEGEND:
 PERMISSIVE MOVEMENT
 PROTECTED MOVEMENT

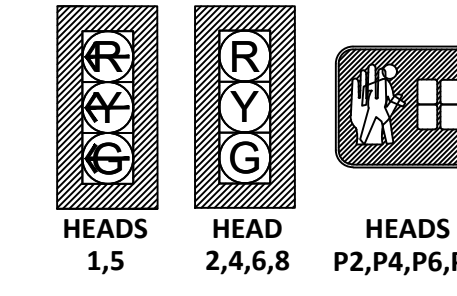


COLOR SEQUENCE CHART

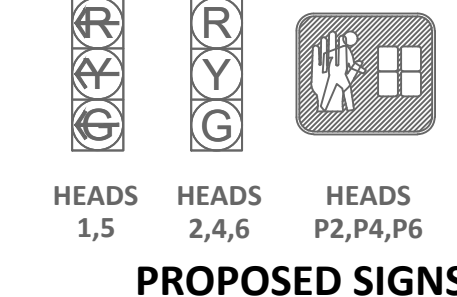
PHASE	1	2	4	5	6	8	1+5	1+6	2+5	2+6	4+8	FLASH
SIGNAL R/W	R/W	R/W	R/W	R/W	R/W	R/W	R/W	R/W	R/W	R/W	R/W	R
1	<G						<G	<G				R
2		G							G	G		Y
4			G								G	R
5				<G			<G	<G				R
6					G		G		G			Y
8						G				G		R
P2		W*							W*	W*		DARK
P4			W*								W*	DARK
P6				W*					W*	W*		DARK
P8					W*						W*	DARK

NOTE: BLANK SPACES IN THIS CHART REPRESENT A "RED" SIGNAL INDICATION.
 *WALK INDICATION IS DISPLAYED WHEN PEDESTRIAN CALL IS SERVICED; WALK INDICATION IS DISPLAYED UNTIL IT IS TIMED OUT. OTHERWISE "DON'T WALK" INDICATION IS DISPLAYED.

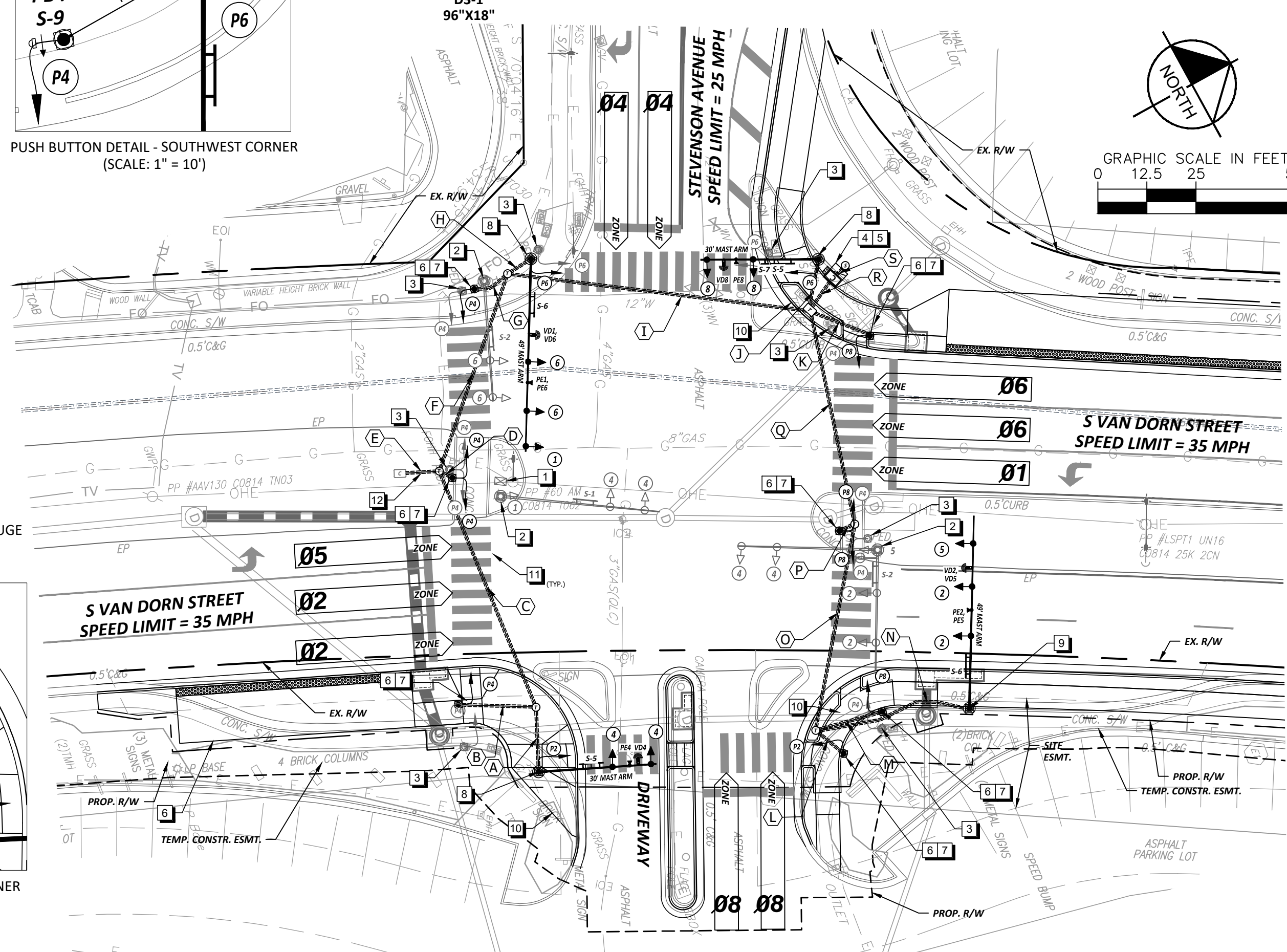
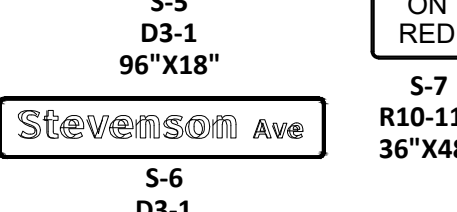
PROPOSED SIGNALS



EXISTING SIGNALS TO BE REMOVED

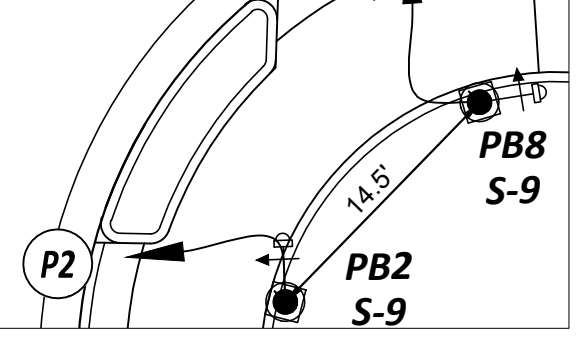
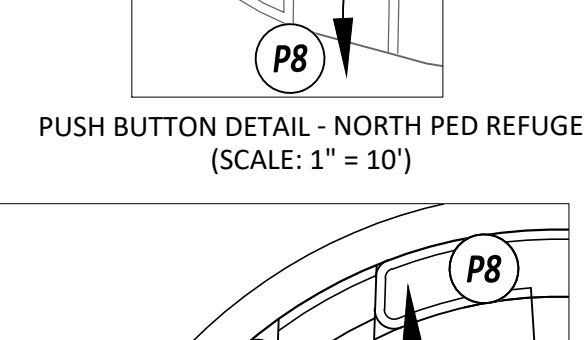
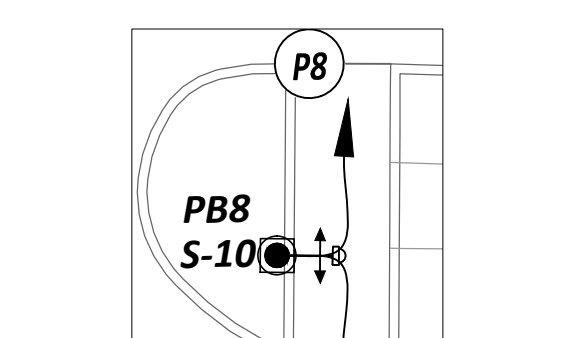
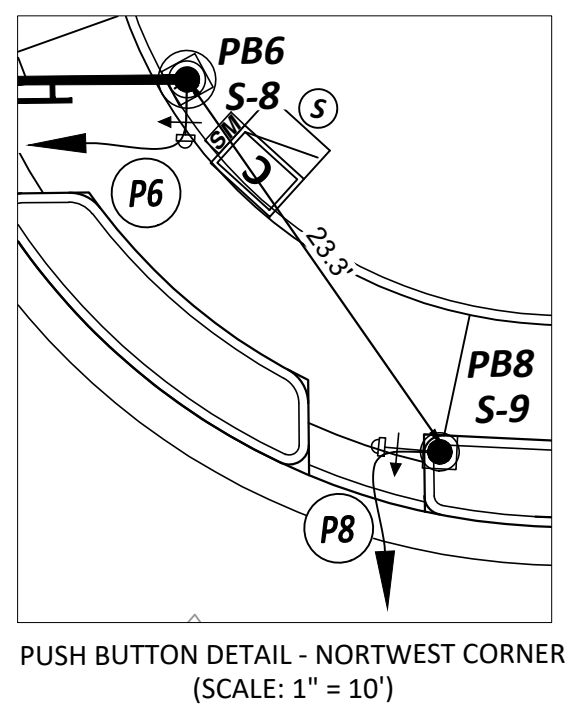


PROPOSED SIGNS

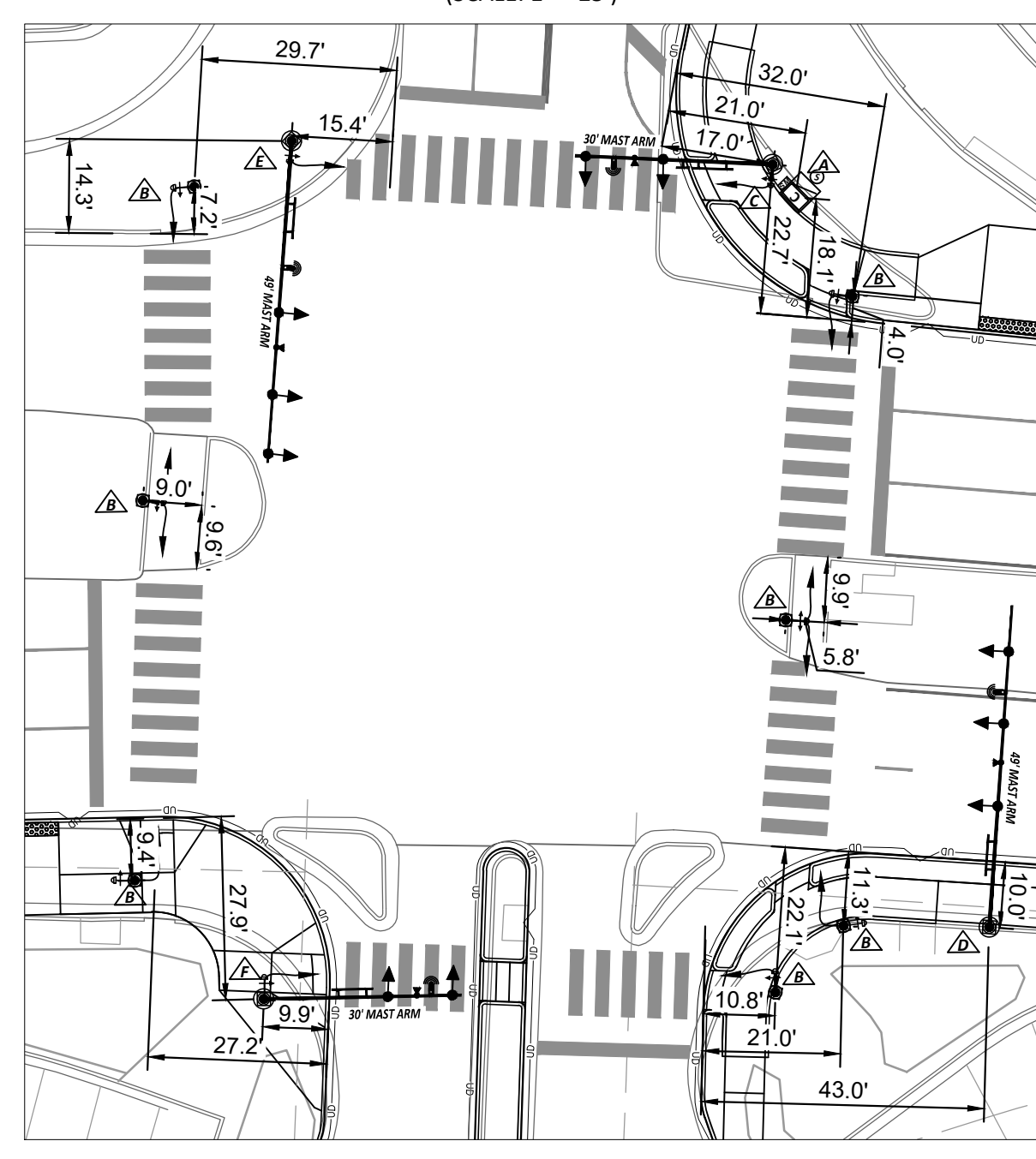


CONSTRUCTION NOTES

- 1 REMOVE EXISTING SIGNAL CABINET.
- 2 REMOVE EXISTING SIGNAL POLE, MAST ARM(S), SIGNALS, AND SIGNS. REMOVE EXISTING FOUNDATION TO MINIMUM DEPTH OF 24" BELOW GRADE.
- 3 REMOVE EXISTING PEDESTAL POLE, PEDESTRIAN SIGNAL(S), PUSHBUTTON, SIGN, AND FOUNDATION.
- 4 INSTALL SIGNAL CONTROLLER CABINET AND FOUNDATION. INSTALL HARDENED NETWORKS, ITS EXPRESS, ITS 8042+ ETHERNET SWITCH IN SIGNAL CONTROLLER CABINET. CABINET SHALL BE ORIENTED SO THAT CABINET DOOR OPENS TOWARD SIDEWALK AND SO THAT TECHNICIAN HAS VIEW OF SIGNAL DISPLAYS.
- 5 INSTALL CABINET MOUNTED METER BASE PER VDOT STD. SE-6.
- 6 INSTALL VDOT STD. PF-2 WITH PEDESTRIAN SIGNAL(S), ACCESSIBLE PEDESTRIAN SIGNAL PUSH BUTTON(S), AND SIGN(S).
- 7 CONTRACTOR TO ENSURE POLE FOUNDATION IS FLUSH WITH SIDEWALK GRADE WHEN INSTALLED ON OR ADJACENT TO SIDEWALK. INCORPORATE POLE FOUNDATION INTO CG-2 WHEN INSTALLED ADJACENT TO CURB RAMP.
- 8 INSTALL MAST ARM SIGNAL POLE WITH TRAFFIC SIGNAL HEADS, VIDEO DETECTION, EMERGENCY VEHICLE PREEMPTION, PEDESTRIAN SIGNAL, ACCESSIBLE PEDESTRIAN SIGNAL PUSH BUTTON, AND SIGNS.
- 9 INSTALL MAST ARM SIGNAL POLE WITH TRAFFIC SIGNAL HEADS, VIDEO DETECTION, EMERGENCY VEHICLE PREEMPTION, AND SIGNS.
- 10 DESIGN OF NEW SIDEWALK, CURB RAMPS, AND CURB AND GUTTER ARE SHOWN BEGINNING ON SHEET C-101.
- 11 DESIGN OF NEW PAVEMENT MARKINGS ARE SHOWN BEGINNING ON SHEET C-601.
- 12 ADD 12 STRAND DROP CABLE AND CCTV DROP CABLE TO BE REMOVED AND REPLACED WITH 12 STRAND FIBER PON DROP CABLE TO PROPOSED SIGNAL CABINET IN THE EXISTING SPLICE. SEE SPLICE DIAGRAM AS PER SHEET C-905A.
- 13 CONTRACTOR TO INSTALL TRANSIT SIGNAL PRIORITY EQUIPMENT. SEE SHEETS C-916 THROUGH C-918.



POLE LOCATION DETAIL



INITIAL TIMING CHART

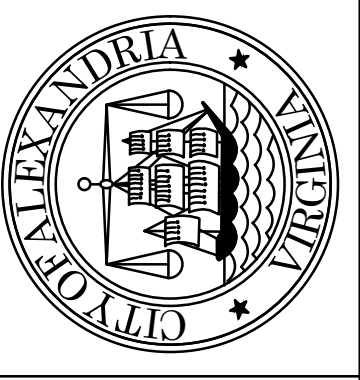
PHASE	1	2	3	4	5	6	7	8
MOVEMENT	SB LT S VAN DORN	NB S VAN DORN		EB STEVENSON	NB LT S VAN DORN	SB S VAN DORN		WB DRIVEWAY
PHASE ON	X	X		X	X	X		X
PHASE OFF			X				X	
MIN GR	8.0	10.0		18.0	6.0	10.0		18.0
PASSAGE	3.0	0.0		2.0	3.0	0.0		2.0
YELLOW	3.5	3.6		3.4	3.0	4.5		3.4
RED	2.8	1.0		3.5	3.0	1.0		3.5
MAX 1	15.0	57.0		27.0	17.0	55.0		27.0
MAX 2	0.0	0.0		0.0	0.0	0.0		0.0
MIN GAP	0.0	0.0		0.0	0.0	0.0		0.0
TIME BEFORE REDUCTION	0.0	0.0		0.0	0.0	0.0		0.0
TIME TO REDUCE	0.0	0.0		0.0	0.0	0.0		0.0
PED WALK	0.0	7.0		7.0	0.0	7.0		7.0
PED CLEARANCE	0.0	12.0		21.0	0.0	11.0		19.0
MODE	NON-LOCK	MAX RECALL		NON-LOCK	NON-LOCK	MAX RECALL		NON-LOCK

NOTE: TIMINGS SHOWN ARE EXISTING AND OBTAINED FROM THE CITY OF ALEXANDRIA, EXCEPT VALUES IN BOLD, WHICH WERE CHANGED OR ADDED AS PART OF THIS PROJECT.

LEGEND

- | EXISTING | PROPOSED |
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WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS



CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

REVISIONS	DESCRIPTION

DATE	BY

ALEXANDRIA PROJECT NO.: 110104122
 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: RY DATE: 11/29/23
 DRAWN BY: RY DATE: 11/29/23
 CHECKED BY: DCM DATE: 11/29/23
 APPROVED BY: DATE:

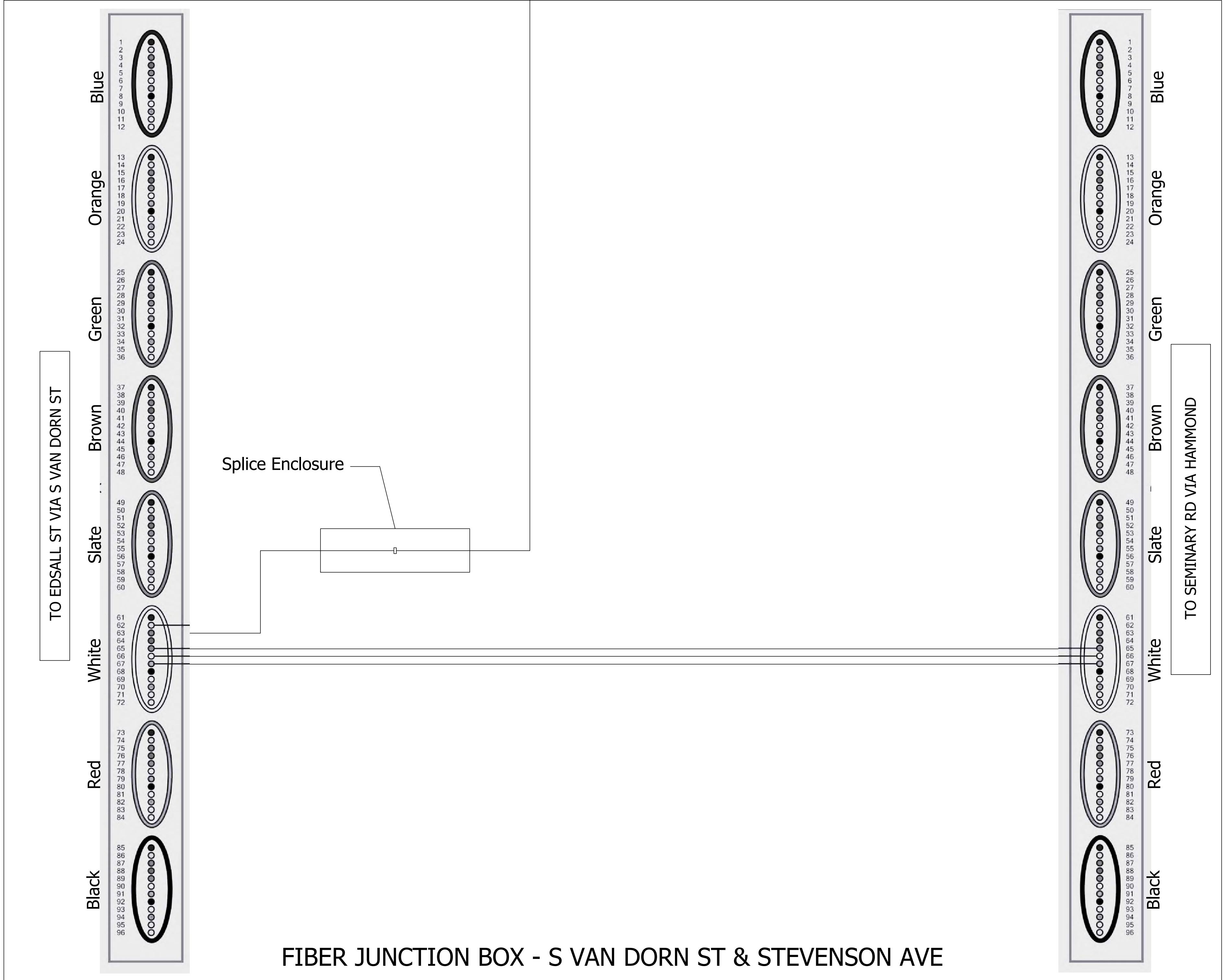
TRAFFIC SIGNAL PLANS -
 VAN DORN ST AT
 STEVENSON AVE

SHEET
 C-905
 SCALE 1" = 25'

Plotted By: LdSher, Richard Sheet Set: West End Transitway - Phase 1 Layout: TRAFFIC SIGNAL P - SPLICING DIAGRAM VAN DORN ST AT STEVENSON AVE July 11, 2024 06:25:28pm K:\NVA_Transit\110104122_West_End_Transitway_Design\CADD\PlanSheets\COMMUNICATIONS_PLANS.dwg

CONSTRUCTION NOTES

- 1 SPLICE DIAGRAM SHOWN REFERENCED FROM ITS PHASE III PLANS FROM THE CITY.
- 2 CONTRACTOR TO CONFIRM THAT THE CITY OF ALEXANDRIA ITS PHASE II-IV PLANS HAVE BEEN BUILT AND THAT SPLICE DIAGRAM SHOWN IN THIS SHEET MATCHES WITH EXISTING CONDITIONS. CONTRACTOR TO CONFIRM FIBER CONNECTIONS WITH THE CITY PRIOR TO THE INSTALLATION.



LEGEND	
■	A - BFO 96 to Pullbox @ Van Dorn and Alexandria
■	B - BFO 96 to Pullbox @ S Van Dorn & Edsall

ALL UNUSED FIBERS SHOULD BE ASSIGNED TO BE EXPRESS THRU.

WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

TRAFFIC SIGNAL PLANS - SPLICING DIAGRAM VAN DORN ST AT STEVENSON AVE	
SHEET C-905A	SCALE N/A

ALEXANDRIA PROJECT NO.:	110104122
DATE OF PLAN ISSUANCE:	N/A
CONSULTANT PROJECT ID.:	N/A
DESIGNED BY:	DATE:
DRAWN BY:	DATE:
CHECKED BY:	DATE:
APPROVED BY:	DATE:

REVISIONS	DESCRIPTION
BY	
DATE	

CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313



Plotted By: LoShier, Richard Sheet Set: West End Transitway - Phase 1 Layout: TRAFFIC SIGNAL PLANS - VAN DORN ST AT HOLMES RUN PKWY July 11, 2024 06:26:22pm K:\VVA_Transit\110104122_West_End_Transitway_Design\CADD\PlanSheets\SIGNAL_PLANS_VAN_DORN.dwg

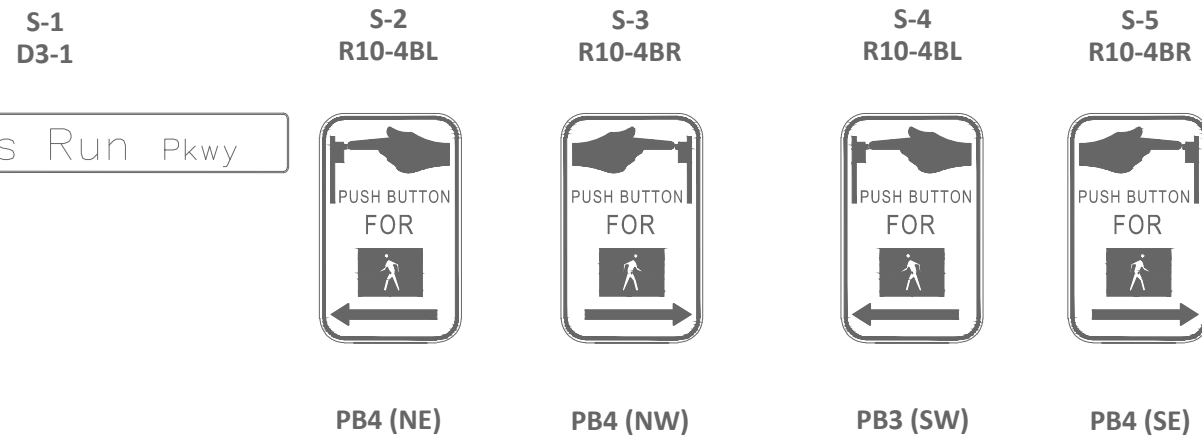
CONDUIT & CABLE LEGEND

- (A) EXISTING CONDUIT(S)
1-14/7c TRAFFIC SIGNAL HEAD 3A
- (B) EXISTING CONDUIT(S)
1-14/7c TRAFFIC SIGNAL HEAD 3, 3A
- (C) 1-3" CONDUIT (TRENCHED) PVC
1-14/5c PEDESTRIAN SIGNAL HEADS P2, P3
2-14/2c PEDESTRIAN PUSH BUTTONS PB2, PB3
1-#6 AWG
- (D) EXISTING CONDUIT(S)
~~ALL CABLES~~
- (E) EXISTING CONDUIT(S)
1-14/7c TRAFFIC SIGNAL POLE 3, 3A
2-14/5c PEDESTRIAN SIGNAL HEADS P2, P3
2-14/5c PEDESTRIAN SIGNAL HEADS P2, P3
1-14/2c PEDESTRIAN PUSH BUTTONS
2-14/2c PEDESTRIAN PUSH BUTTONS PB2, PB3
- (F) EXISTING CONDUIT(S)
1-14/7c TRAFFIC SIGNAL HEAD 2
2-14/5c PEDESTRIAN SIGNAL HEADS P2, P4
1-14/2c PEDESTRIAN PUSH BUTTON PB4
1-14/2c ILLUMINATED STREET NAME SIGNS
- (G) EXISTING CONDUIT(S)
1-14/7c TRAFFIC SIGNAL HEAD 2
2-14/5c PEDESTRIAN SIGNAL HEADS P2, P4
1-14/2c PEDESTRIAN PUSH BUTTON PB4
2-14/5c PEDESTRIAN SIGNAL HEADS P2, P4
2-14/2c PEDESTRIAN PUSH BUTTONS PB2, PB4
1-14/2c ILLUMINATED STREET NAME SIGNS
- (H) EXISTING CONDUIT(S)
~~ALL CABLES~~
- (I) EXISTING CONDUIT(S)
2-14/5c PEDESTRIAN SIGNAL HEADS P4, P6
2-14/2c PEDESTRIAN PUSH BUTTONS PB4, PB6
- (J) 1-3" CONDUIT (TRENCHED) PVC
1-14/5c PEDESTRIAN SIGNAL HEAD P3
1-14/2c PEDESTRIAN PUSH BUTTON PB3
1-#6 AWG
- (K) 1-3" CONDUIT (TRENCHED) PVC
1-14/5c PEDESTRIAN SIGNAL HEAD P6
1-14/2c PEDESTRIAN PUSH BUTTON PB6
1-#6 AWG
- (L) EXISTING CONDUIT(S)
~~ALL CABLES~~
- (M) EXISTING CONDUIT(S)
2-14/7c TRAFFIC SIGNAL HEADS 1,6
1-14/7c TRAFFIC SIGNAL HEADS 4, 4A
- (N) EXISTING CONDUIT(S)
5-14/7c TRAFFIC SIGNAL HEADS 1, 2, 3, 4, 6
8-14/5c PEDESTRIAN SIGNAL HEADS P2, P3, P4, P6
6-14/5c PEDESTRIAN SIGNAL HEADS P2, P3, P4
4-14/2c PEDESTRIAN PUSH BUTTONS P4
6-14/2c PEDESTRIAN PUSH BUTTONS P2, P3, P4, P6
1-14/2c ILLUMINATED STREET NAME SIGNS
- (O) 1-3" CONDUIT (TRENCHED) PVC
1-14/5c PEDESTRIAN SIGNAL HEAD P2
1-14/2c PEDESTRIAN PUSH BUTTON PB2
1-#6 AWG
- (P) 1-3" CONDUIT (TRENCHED) PVC
1-14/5c PEDESTRIAN SIGNAL HEAD P4
1-14/2c PEDESTRIAN PUSH BUTTON PB4
1-#6 AWG
- (Q) 1-3" CONDUIT (TRENCHED) PVC
2-14/5c PEDESTRIAN SIGNAL HEADS P4, P6
2-14/2c PEDESTRIAN PUSH BUTTONS PB4, PB6
1-#6 AWG

LEGEND:
 EXISTING CABLE TO REMAIN
 EXISTING CABLE TO BE REMOVED
 PROPOSED CABLE/CONDUIT TO BE INSTALLED

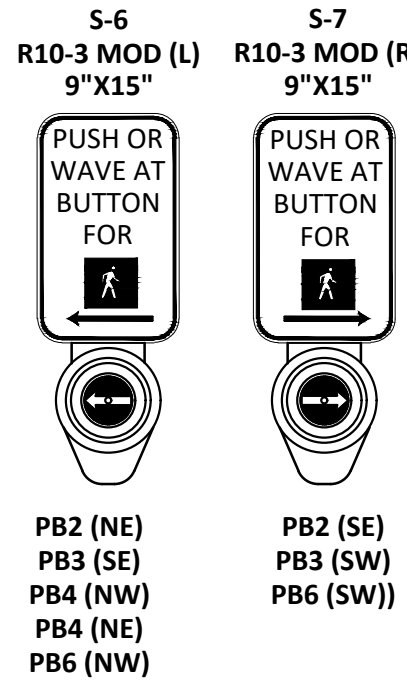
- NOTES:**
- EXISTING JUNCTION BOXES AND CONDUITS ARE BASED ON AVAILABLE SURVEY DATA AND INFORMATION OBTAINED DURING SITE VISITS. THESE ITEMS ARE SHOWN AT THEIR APPROXIMATE LOCATION BASED ON THE AVAILABLE INFORMATION.
 - ACTUAL SIZE, NUMBER, AND LOCATION OF CONDUITS MAY VARY. THE CONTRACTOR SHALL NOTIFY THE CITY OF ANY CONFLICTS BETWEEN THE PLANS AND THE FIELD CONDITIONS AND OBTAIN WRITTEN AUTHORIZATION FROM THE CITY TO DEVIATE FROM THE PLANS TO PROVIDE THE PROPOSED SIGNAL CONFIGURATION SHOWN IN THESE PLANS.
 - CONTRACTOR SHALL REMOVE UNUSED SIGNAL CABLE FROM EXISTING CONDUITS IF NO LONGER BEING USED TO OPERATE THE TRAFFIC SIGNAL.
 - THESE PLANS ASSUME APPROPRIATE CONDUIT AND JUNCTION BOX GROUNDING IS IN PLACE.

EXISTING SIGNS TO REMAIN

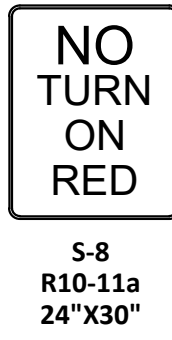


EXISTING SIGNS TO BE REMOVED

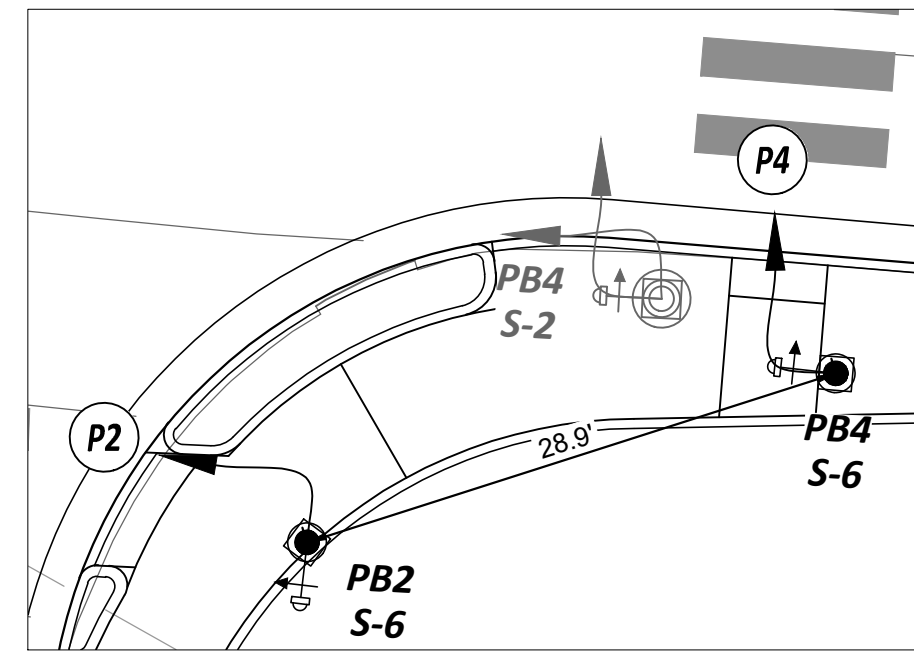
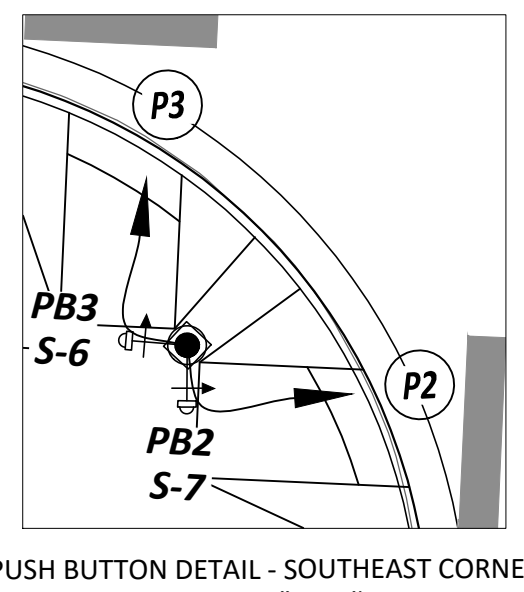
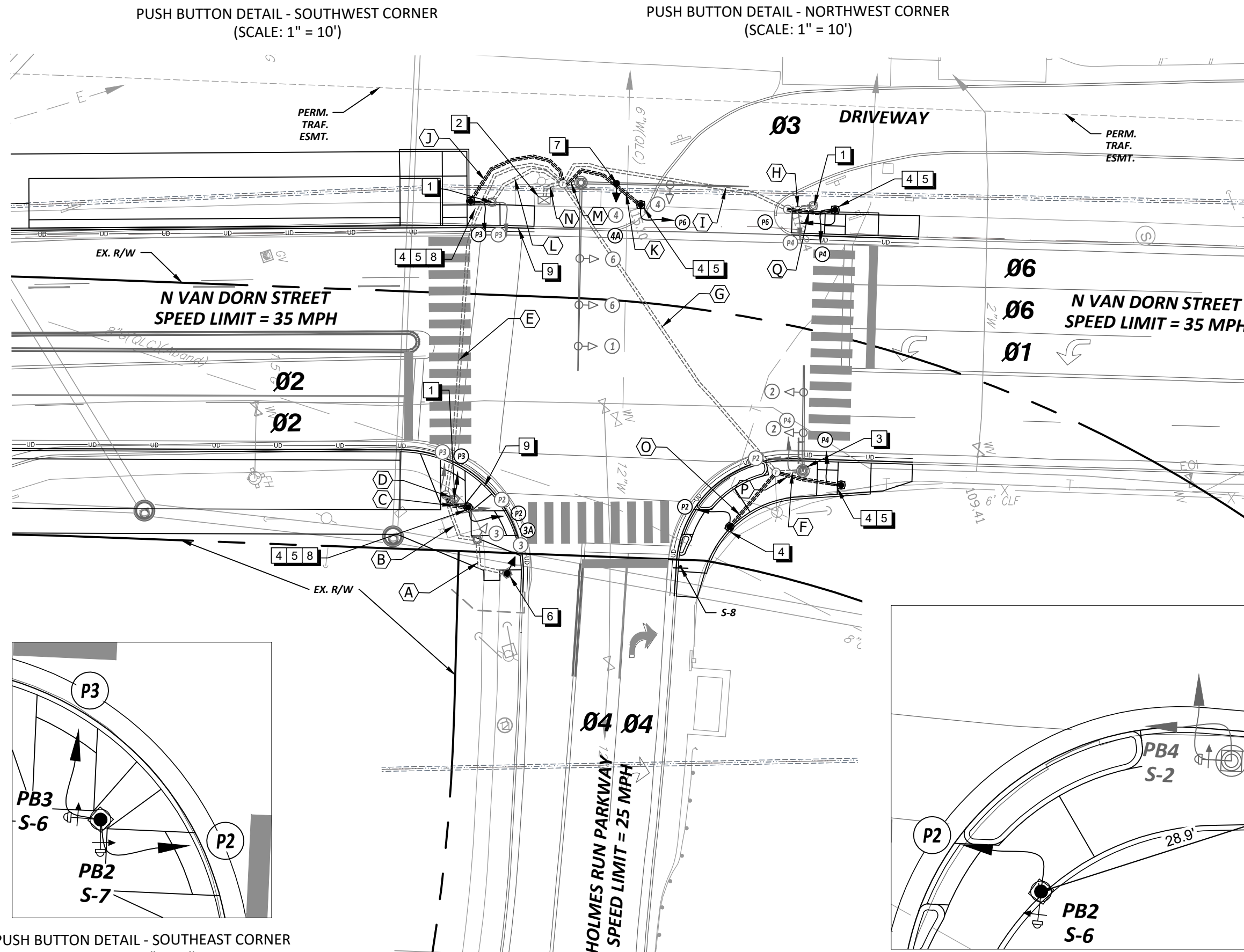
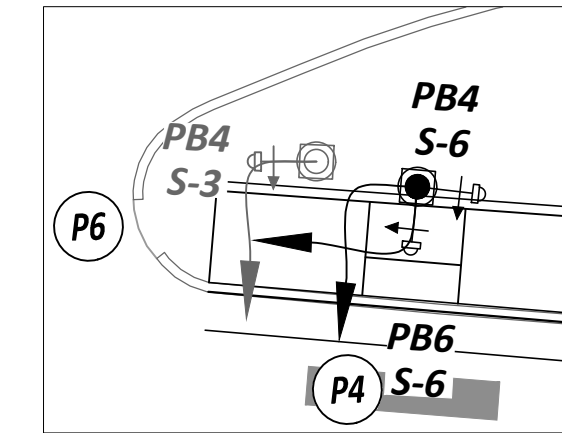
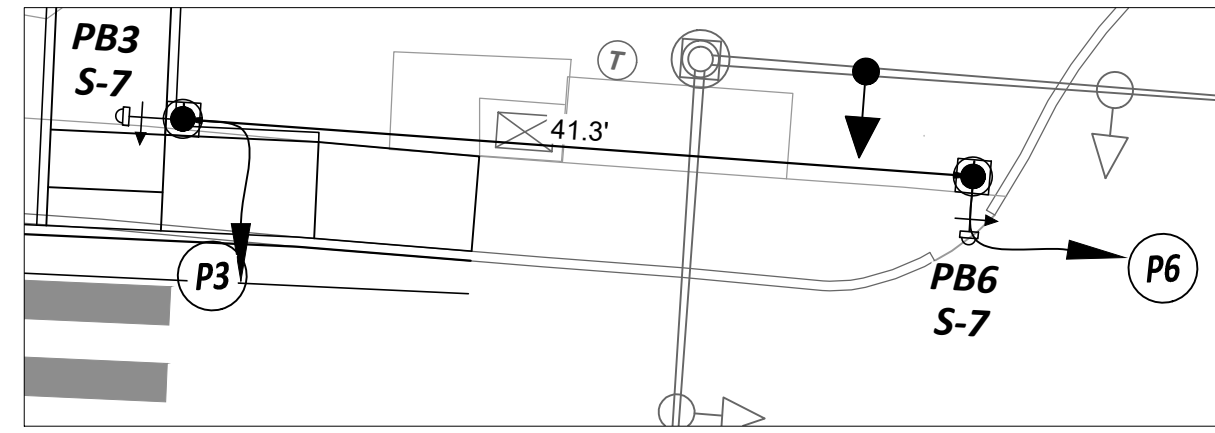
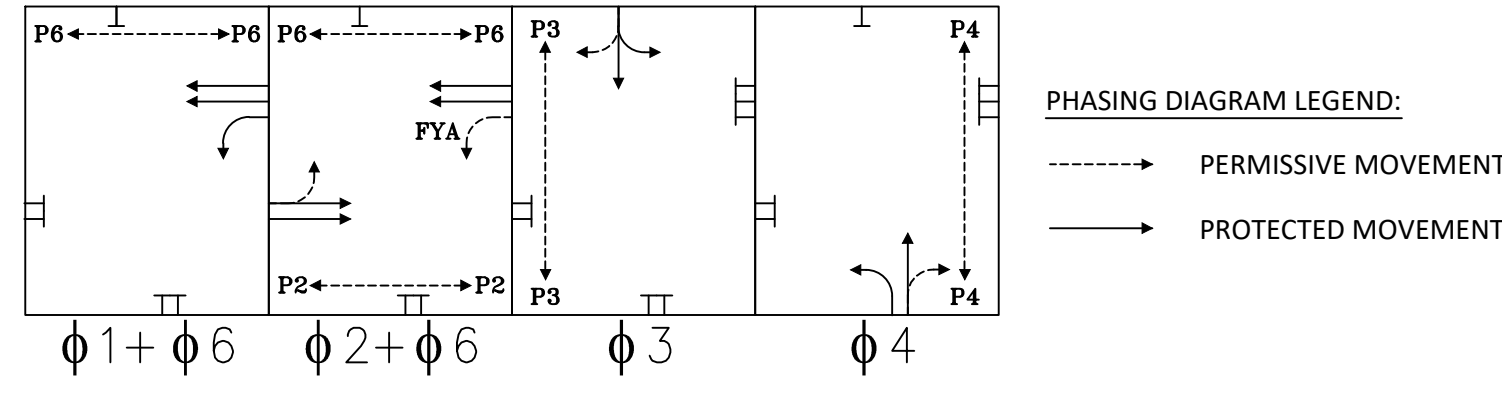
PROPOSED ACCESSIBLE PEDESTRIAN PUSHBUTTON



PROPOSED SIGNS



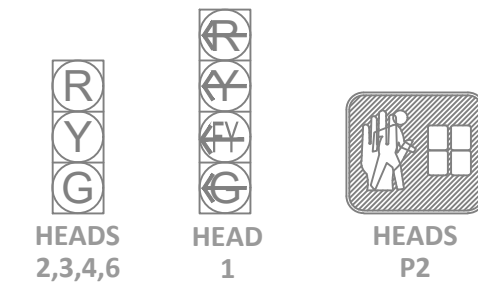
EXISTING & PROPOSED PHASING DIAGRAM



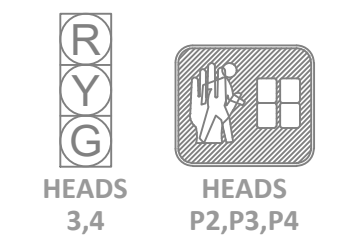
CONSTRUCTION NOTES

- REMOVE EXISTING PEDESTAL POLE, PEDESTRIAN SIGNAL(S) PUSHBUTTON(S), SIGN(S), AND FOUNDATION.
- EXISTING SIGNAL CABINET TO REMAIN.
- REMOVE EXISTING PEDESTRIAN SIGNALS, PUSHBUTTONS, AND SIGNS FROM EXISTING SIGNAL POLE.
- INSTALL VDOT STD. PF-2 WITH PEDESTRIAN SIGNAL(S), ACCESSIBLE PEDESTRIAN SIGNAL PUSH BUTTON(S), AND SIGN(S).
- CONTRACTOR TO ENSURE POLE FOUNDATION IS FLUSH WITH SIDEWALK GRADE WHEN INSTALLED ON OR ADJACENT TO SIDEWALK. INCORPORATE POLE FOUNDATION INTO CG-2 WHEN INSTALLED ADJACENT TO CURB RAMP.
- REMOVE EXISTING 3-SECTION SIGNAL HEAD 3. INSTALL PROPOSED 4-SECTION SIGNAL HEAD 3A WITH VDOT STD. SM-3 HANGER ASSEMBLY. SMB-1 POLE TOP MOUNTING IS NOT PERMITTED FOR THIS INSTALLATION.
- REMOVE EXISTING 3-SECTION SIGNAL HEAD 4. INSTALL IN KIND PROPOSED 4-SECTION SIGNAL HEAD 4A.
- CONTRACTOR TO HAND DIG POLE FOUNDATION TO CONFIRM THE LOCATION OF SURROUNDING UNDERGROUND UTILITIES. CONTRACTOR TO NOTIFY THE CITY IF UTILITIES ARE IDENTIFIED IN THE FIELD THAT CONFLICT WITH THE PROPOSED POLE LOCATION.
- DESIGN OF NEW SIDEWALK, CURB RAMPS, AND CURB AND GUTTER ARE SHOWN BEGINNING ON SHEET C-101.
- CONTRACTOR TO INSTALL TRANSIT SIGNAL PRIORITY EQUIPMENT. SEE SHEETS C-916 THROUGH C-918.

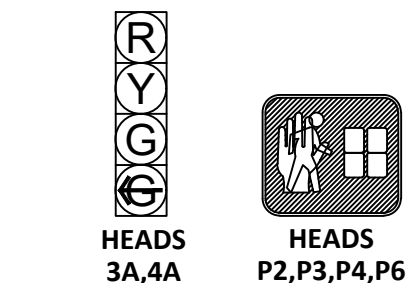
EXISTING SIGNALS TO REMAIN



EXISTING SIGNALS TO BE REMOVED

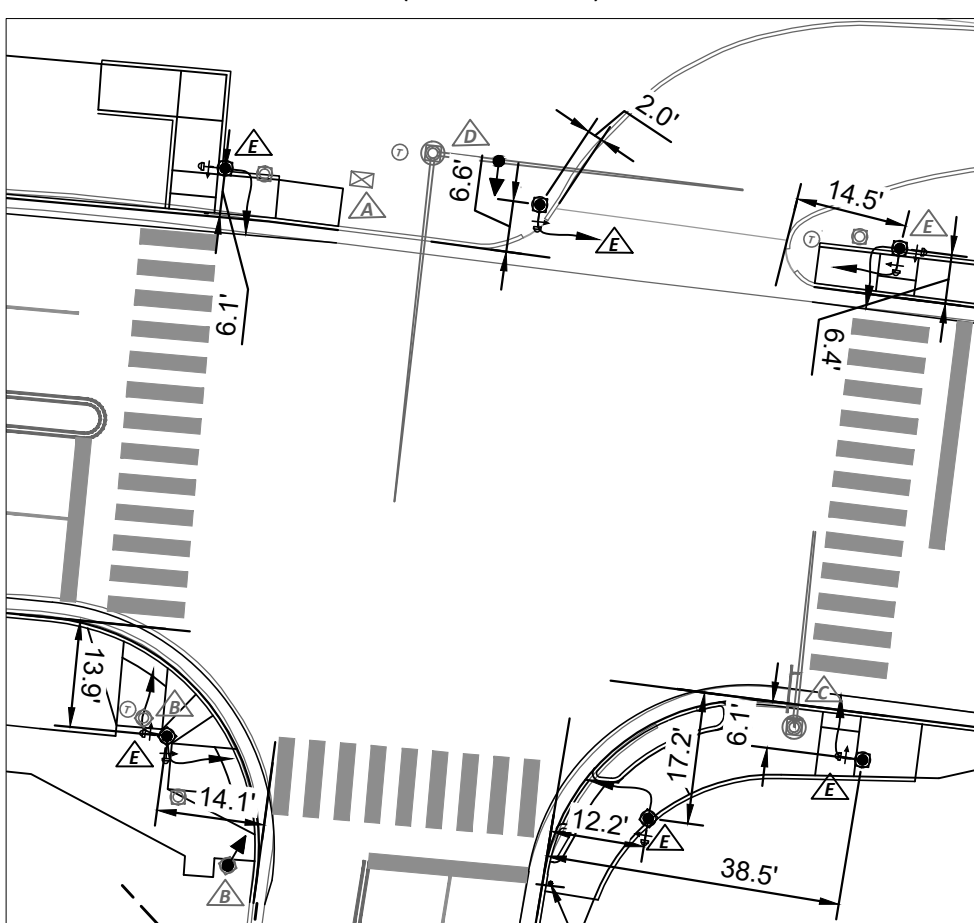


PROPOSED SIGNALS



NOTE: ALL TRAFFIC SIGNAL HEAD SECTIONS SHALL BE 12\"/>

POLE LOCATION DETAIL



PUSHBUTTON (QUADRANT)	SPEECH PB INFORMATION MESSAGE	AUDIBLE WALK INDICATION
PB2 (SE)	WAIT TO CROSS HOLMES RUN AT NORTH VAN DORN.	HOLMES RUN, WALK SIGN IS ON TO CROSS HOLMES RUN.
PB2 (NE)	WAIT TO CROSS HOLMES RUN AT NORTH VAN DORN.	PERCUSSIVE TONE
PB3 (SW) PB4 (NE)	WAIT TO CROSS NORTH VAN DORN AT HOLMES RUN.	PERCUSSIVE TONE
PB3 (SE) PB4 (NW)	WAIT TO CROSS NORTH VAN DORN AT HOLMES RUN.	NORTH VAN DORN, WALK SIGN IS ON TO CROSS NORTH VAN DORN.
PB6 (SW)	WAIT TO CROSS DRIVEWAY AT NORTH VAN DORN.	PERCUSSIVE TONE
PB6 (NW)	WAIT TO CROSS DRIVEWAY AT NORTH VAN DORN.	WALK SIGN IS ON TO CROSS DRIVEWAY.

SIGNAL POLE AND CONTROLLER LEGEND:

- △ EXISTING CONTROLLER CABINET
- △ EXISTING PEDESTAL POLE - 2 TOTAL
- △ EXISTING MAST ARM POLE
- △ EXISTING DUAL MAST ARM POLE
- △ 10' PEDESTAL POLE (PF-2) - 6 TOTAL

COLOR SEQUENCE CHART

PHASE	1	2	3	4	6	1+6	2+6	FLASH
SIGNAL	R/W	R/W	R/W	R/W	R/W	R/W	R/W	
1	←G					←G	←Y	
2		G					G	Y
3			G					R
3A			G					R
4				G				R
4A				G				R
6					G	G	G	Y
P2		W*					W*	DARK
P3			W*					DARK
P4				W*				DARK
P6					W*	W*	W*	DARK

NOTE: BLANK SPACES IN THIS CHART REPRESENT A "RED" SIGNAL INDICATION.

*WALK INDICATION IS DISPLAYED WHEN PEDESTRIAN CALL IS SERVICED; WALK INDICATION IS DISPLAYED UNTIL IT IS TIMED OUT. OTHERWISE "DON'T WALK" INDICATION IS DISPLAYED.

INITIAL TIMING CHART

PHASE	1	2	3	4	5	6	7	8
MOVEMENT	SB LT N VAN DORN	NB N VAN DORN	EB DRIVEWAY	WB HOLMES RUN	NOT USED	SB N VAN DORN	NOT USED	NOT USED
PHASE ON	X	X	X	X		X		
PHASE OFF								
MIN GR	10.0	10.0	5.0	14.0		10.0		
PASSAGE	2.0	0.0	3.0	3.0		0.0		
YELLOW	4.8	4.8	3.0	3.0		4.8		
RED	2.9	2.9	1.8	2.2		2.9		
MAX 1	22.0	45.0	15.0	28.0		45.0		
MAX 2	0.0	0.0	0.0	0.0		0.0		
MIN GAP	0.0	0.0	0.0	0.0		0.0		
TIME BEFORE REDUCTION	0.0	0.0	0.0	0.0		0.0		
TIME TO REDUCE	0.0	0.0	0.0	0.0		0.0		
PED WALK	0.0	7.0	7.0	7.0		7.0		
PED CLEARANCE	0.0	7.0	11.0	11.0		5.0		
MODE	NON-LOCK	MAX RECALL	NON-LOCK	NON-LOCK		MAX RECALL		

NOTE: TIMINGS SHOWN ARE EXISTING AND OBTAINED FROM THE CITY OF ALEXANDRIA, EXCEPT VALUES IN BOLD, WHICH WERE CHANGED OR ADDED AS PART OF THIS PROJECT.

LEGEND

- | | EXISTING | PROPOSED |
|--|----------|----------|
| Controller Cabinet | ☐ | ☐ |
| Signal Junction Box (VDOT Std. JB-S2) | ○ | ○ |
| Signal Junction Box (VDOT Std. JB-S3) | □ | □ |
| Comm. Junction Box (VDOT Std. JB-S2) | ○ | ○ |
| Comm. Junction Box (VDOT Std. JB-S3) | □ | □ |
| Service Junction Box (VDOT Std. JB-S2) | ○ | ○ |
| Mast Arm Pole & Foundation | ⊙ | ⊙ |
| Pedestrian Pedestal Pole & Foundation | ⊙ | ⊙ |
| Carlyle Lighting Pole & Foundation | ⊙ | ⊙ |
| Service Meter | ⊙ | ⊙ |
| Battery Backup (UPS) | ⊙ | ⊙ |
| Vehicle Signal Head (LED) | ⊙ | ⊙ |
| Pedestrian Push Button | → PB# | → PB# |
| ITS PLUS Video Detection | → VD# | → VD# |
| Emergency Vehicle Preemption | → PE# | → PE# |
| CCTV Camera | → CCTV | → CCTV |
| Overhead Light (LED) | → SL# | → SL# |
| Conduit | ----- | ----- |
| Video Detection Zone (6' X 40') | ----- | ----- |

CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

REVISIONS	DESCRIPTION

ALEXANDRIA PROJECT NO.: 110104122
 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: RY DATE: 11/29/23
 DRAWN BY: RY DATE: 11/29/23
 CHECKED BY: DCM DATE: 11/29/23
 APPROVED BY: _____ DATE: _____

TRAFFIC SIGNAL PLANS -
VAN DORN ST AT
HOLMES RUN PKWY

SHEET C-906

SCALE 1" = 25'

Plotted By: LdShier, Richard Sheet: West End Transitway - Phase 1 Layout: TRAFFIC SIGNAL PLANS - VAN DORN ST AT TANEY AVE July 11, 2024 06:27:16pm K:\NVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\SIGNAL PLANS VAN DORN.dwg

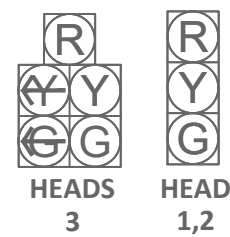
CONDUIT & CABLE LEGEND

- (A)** EXISTING CONDUIT(S)
ALL CABLES TO BE REMOVED
- (B)** EXISTING CONDUIT(S)
1-14/7c TRAFFIC SIGNAL HEAD 1
1-14/2c ILLUMINATED STREET NAME SIGN
1-14/5c PEDESTRIAN SIGNAL HEAD P1
- (C)** EXISTING CONDUIT(S)
1-14/7c TRAFFIC SIGNAL HEAD 1
1-14/2c ILLUMINATED STREET NAME SIGN
2-14/5c PEDESTRIAN SIGNAL HEADS P1, P2
1-14/2c PEDESTRIAN PUSH BUTTON PB2
- (D)** 1-3" CONDUIT (TRENCHED) PVC
2-14/5c PEDESTRIAN SIGNAL HEADS P1, P2
2-14/2c PEDESTRIAN PUSH BUTTONS PB1, PB2
1-#6 AWG
- (E)** EXISTING CONDUIT(S)
1-14/7c TRAFFIC SIGNAL HEADS 1
1-14/2c ILLUMINATED STREET NAME SIGN
2-14/5c PEDESTRIAN SIGNAL HEADS P1, P2
2-14/2c PEDESTRIAN PUSH BUTTON PB2
1-14/2c PEDESTRIAN SIGNAL HEADS P1, P2
2-14/5c PEDESTRIAN SIGNAL HEAD P2
1-14/2c PEDESTRIAN SIGNAL HEAD P2
2-14/2c PEDESTRIAN SIGNAL HEADS P1, P2
1-14/2c PEDESTRIAN SIGNAL HEAD P2
2-14/2c PEDESTRIAN SIGNAL HEADS P1, P2
- (F)** 1-3" CONDUIT (TRENCHED) PVC
2-14/5c PEDESTRIAN SIGNAL HEADS P1, P2
2-14/2c PEDESTRIAN SIGNAL HEADS P1, P2
1-14/2c PEDESTRIAN SIGNAL HEADS P1, P2
2-14/2c PEDESTRIAN SIGNAL HEADS P1, P2
1-14/2c PEDESTRIAN SIGNAL HEADS P1, P2
2-14/2c PEDESTRIAN SIGNAL HEADS P1, P2
- (G)** EXISTING CONDUIT(S)
ALL CABLES TO BE REMOVED
- (H)** EXISTING CONDUIT(S)
2-14/5c PEDESTRIAN SIGNAL HEADS P1, P2
2-14/5c PEDESTRIAN SIGNAL HEADS P1, P2
1-14/2c PEDESTRIAN SIGNAL HEADS P1, P2
2-14/2c PEDESTRIAN SIGNAL HEADS P1, P2
- (I)** EXISTING CONDUIT(S)
ALL CABLES TO BE REMOVED
- (J)** 1-3" CONDUIT (TRENCHED) PVC
1-14/5c PEDESTRIAN SIGNAL HEAD P2
1-14/2c PEDESTRIAN SIGNAL HEAD P2
1-#6 AWG
- (K)** EXISTING CONDUIT(S)
3-14/5c PEDESTRIAN SIGNAL HEADS P1, P2
3-14/5c PEDESTRIAN SIGNAL HEADS P1, P2
2-14/2c PEDESTRIAN SIGNAL HEADS P1, P2
3-14/2c PEDESTRIAN SIGNAL HEADS P1, P2
- (L)** 1-3" CONDUIT (TRENCHED) PVC
2-14/5c PEDESTRIAN SIGNAL HEAD P2
1-14/2c PEDESTRIAN SIGNAL HEAD P2
1-#6 AWG
- (M)** EXISTING CONDUIT(S)
ALL CABLES TO BE REMOVED
- (N)** EXISTING CONDUIT(S)
1-14/5c PEDESTRIAN SIGNAL HEAD P2
1-14/5c PEDESTRIAN SIGNAL HEAD P2
1-14/2c PEDESTRIAN SIGNAL HEAD P2
1-14/2c PEDESTRIAN SIGNAL HEAD P2
- (O)** EXISTING CONDUIT(S)
3-14/7c TRAFFIC SIGNAL HEADS 1, 2, 3
2-14/2c ILLUMINATED STREET NAME SIGNS
- (P)** EXISTING CONDUIT(S)
4-14/7c TRAFFIC SIGNAL HEADS 1, 2, 3
3-14/2c ILLUMINATED STREET NAME SIGNS
6-14/5c PEDESTRIAN SIGNAL HEADS P1, P2
6-14/5c PEDESTRIAN SIGNAL HEADS P1, P2
4-14/2c PEDESTRIAN SIGNAL HEADS P1, P2
6-14/2c PEDESTRIAN SIGNAL HEADS P1, P2

LEGEND:
 EXISTING CABLE TO REMAIN
 EXISTING CABLE TO BE REMOVED
 PROPOSED CABLE/CONDUIT TO BE INSTALLED

- NOTES:**
- EXISTING JUNCTION BOXES AND CONDUITS ARE BASED ON AVAILABLE SURVEY DATA AND INFORMATION OBTAINED DURING SITE VISITS. THESE ITEMS ARE SHOWN AT THEIR APPROXIMATE LOCATION BASED ON THE AVAILABLE INFORMATION.
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 - THESE PLANS ASSUME APPROPRIATE CONDUIT AND JUNCTION BOX GROUNDING IS IN PLACE.

EXISTING SIGNALS TO REMAIN



EXISTING SIGNALS TO BE REMOVED



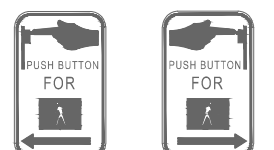
PROPOSED SIGNALS



EXISTING SIGNS TO REMAIN



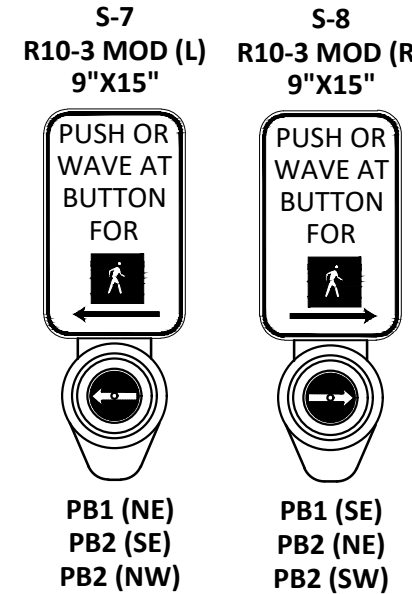
EXISTING SIGNS TO BE REMOVED



PROPOSED SIGNS



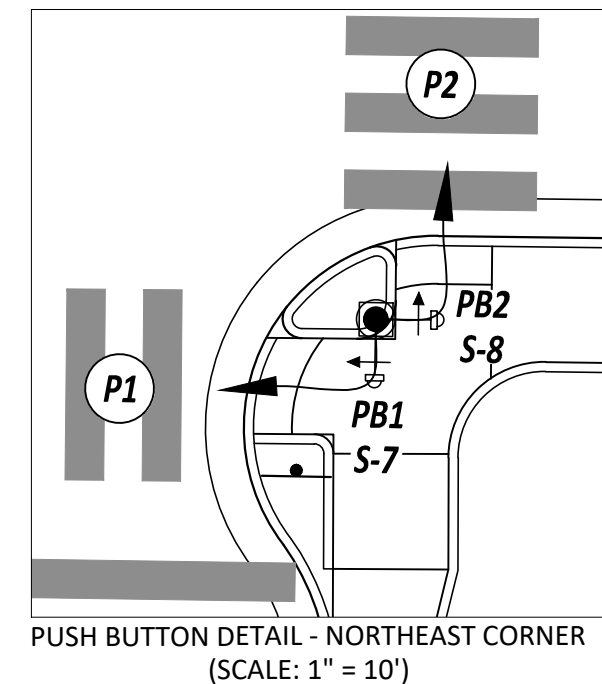
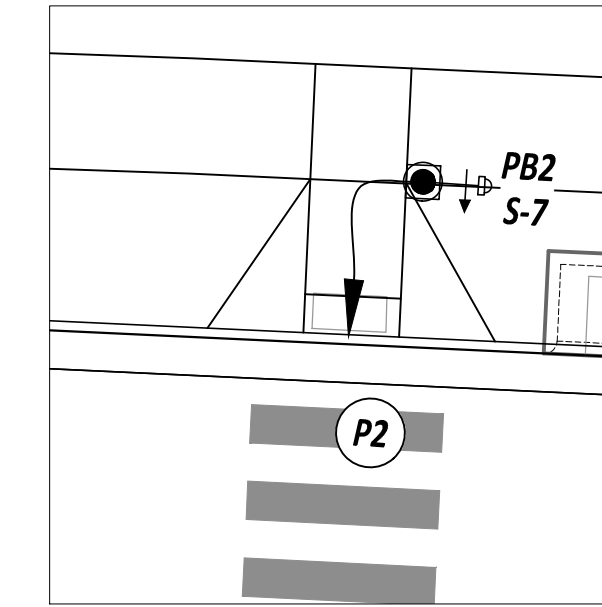
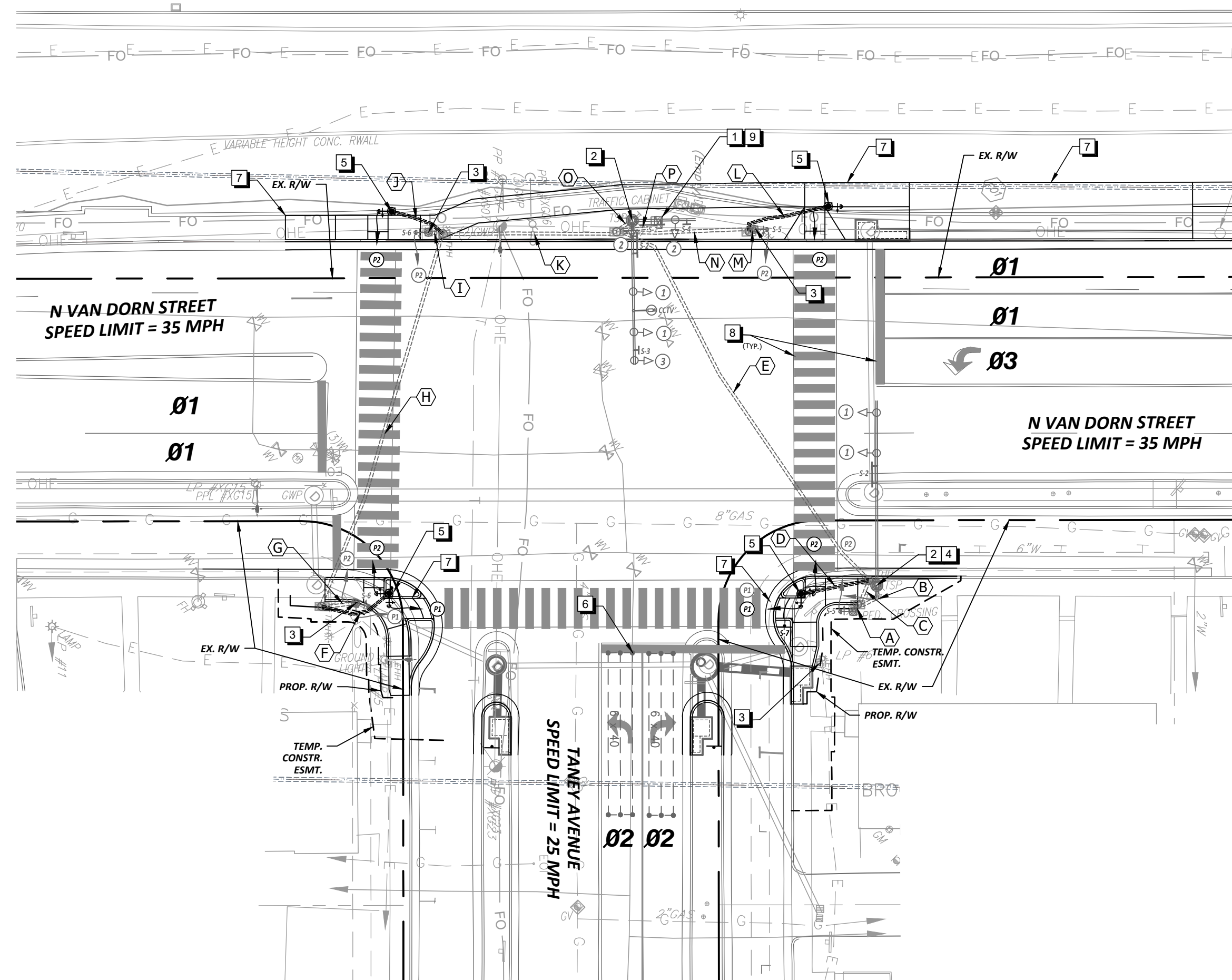
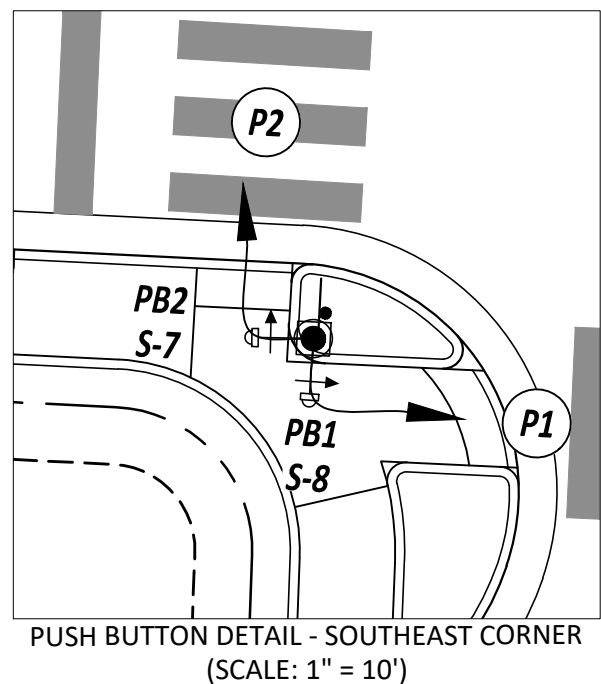
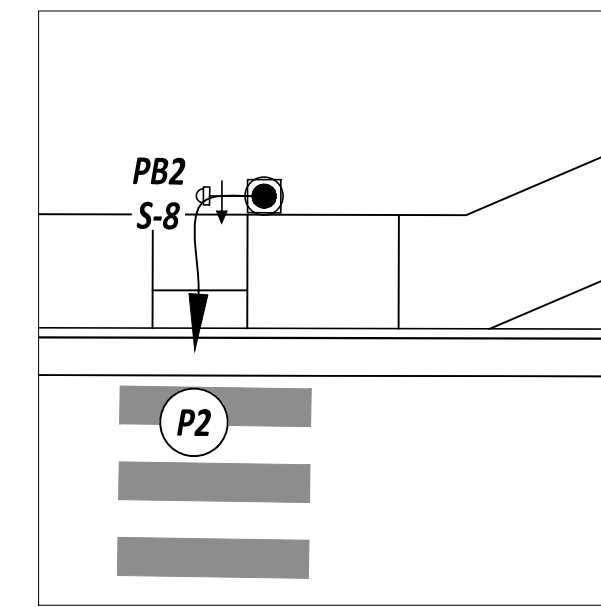
PROPOSED ACCESSIBLE PEDESTRIAN PUSHBUTTON



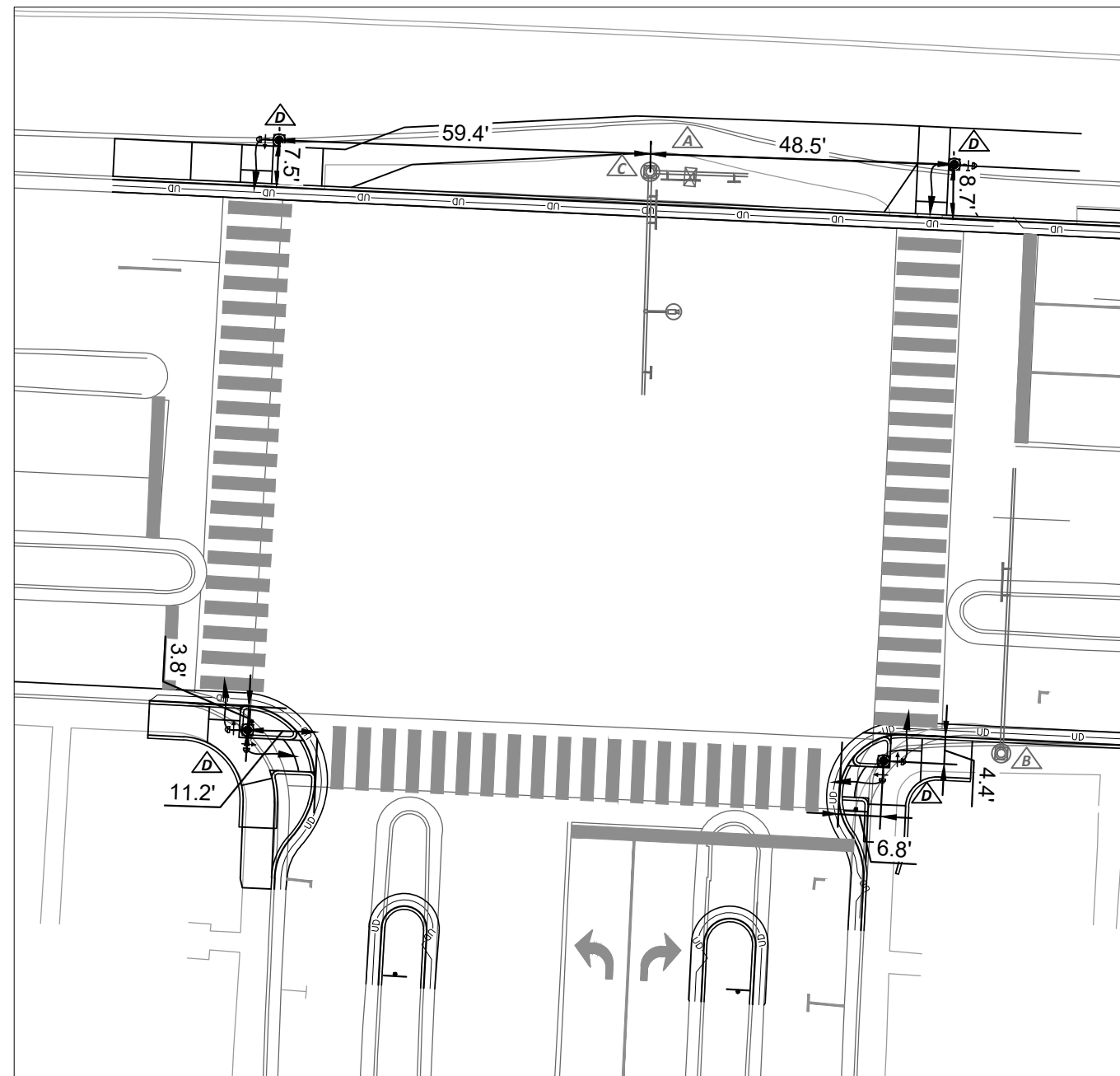
PUSHBUTTON (QUADRANT)	SPEECH PB INFORMATION MESSAGE	AUDIBLE WALK INDICATION
PB1 (NE), PB1 (SE)	WAIT TO CROSS TANEY AT NORTH VAN DORN.	TANEY, WALK SIGN IS ON TO CROSS TANEY.
PB2 (SW), PB2 (NW)	WAIT TO CROSS NORTH VAN DORN AT TANEY.	PERCUSSIVE TONE
PB2 (SE), PB2 (NE)	WAIT TO CROSS NORTH VAN DORN AT TANEY.	NORTH VAN DORN, WALK SIGN IS ON TO CROSS NORTH VAN DORN.

CONSTRUCTION NOTES

- EXISTING SIGNAL CABINET TO REMAIN.
- EXISTING SIGNAL POLE TO REMAIN.
- REMOVE EXISTING PEDESTRIAN SIGNAL(S), PUSHBUTTON(S), AND SIGN(S).
- REMOVE EXISTING PEDESTRIAN SIGNAL.
- INSTALL VDOT STD. PF-2 WITH PEDESTRIAN SIGNAL(S), ACCESSIBLE PEDESTRIAN SIGNAL PUSH BUTTON(S), AND SIGN(S).
- EXISTING IN-PAVEMENT VEHICLE DETECTORS SHOWN ARE ASSUMED IN THE ABSENCE OF AS-BUILT DRAWINGS OR PRESENCE OF VEHICLE DETECTION CAMERAS.
- DESIGN OF NEW SIDEWALK, CURB RAMPS, AND CURB AND GUTTER ARE SHOWN BEGINNING ON SHEET C-101.
- DESIGN OF NEW PAVEMENT MARKINGS ARE SHOWN BEGINNING ON SHEET C-601.
- INSTALL HARDENED NETWORKS, ITS EXPRESS, ITS 8042+ ETHERNET SWITCH IN SIGNAL CONTROLLER CABINET.



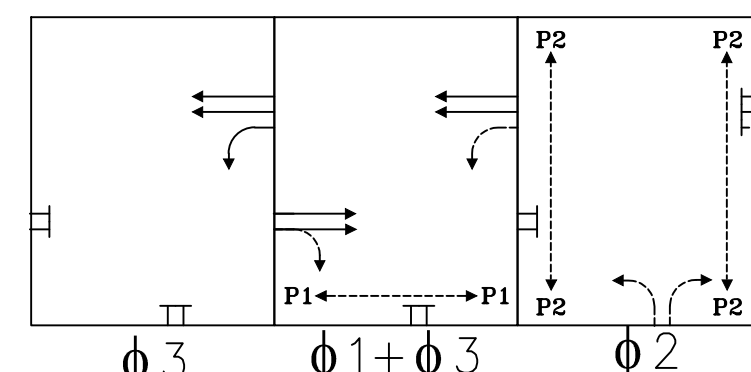
POLE LOCATION DETAIL
(SCALE: 1" = 25')



SIGNAL POLE AND CONTROLLER LEGEND:

- ▲ EXISTING CONTROLLER CABINET AND FOUNDATION
- ▲ EXISTING MAST ARM POLE
- ▲ EXISTING DUAL MAST ARM POLE
- ▲ 10' PEDESTAL POLE (PF-2) - 4 TOTAL

EXISTING PHASING DIAGRAM



- PHASING DIAGRAM LEGEND:**
- PERMISSIVE MOVEMENT
 - PROTECTED MOVEMENT

COLOR SEQUENCE CHART

PHASE	1	2	3	1+3	FLASH
SIGNAL	R/W	R/W	R/W	R/W	
1	G			G	Y
2		G			R
3			R	G	Y
P1	W*			W*	DARK
P2		W*			DARK

NOTE: BLANK SPACES IN THIS CHART REPRESENT A "RED" SIGNAL INDICATION.
 W-WALK
 *WALK INDICATION IS DISPLAYED WHEN PEDESTRIAN CALL IS SERVICED; WALK INDICATION IS DISPLAYED UNTIL IT IS TIMED OUT. OTHERWISE "DON'T WALK" INDICATION IS DISPLAYED.

INITIAL TIMING CHART

PHASE	1	2	3	4	5	6	7	8
MOVEMENT	NB/SB N VAN DORN	WB TANEY	SB/LT N VAN DORN					
PHASE ON	X	X	X					
PHASE OFF				X	X	X	X	X
MIN GR	10.0	7.0	4.0					
PASSAGE	0.0	2.0	2.0					
YELLOW	4.3	3.0	4.3					
RED	2.6	3.3	2.6					
MAX 1	45.0	25.0	8.0					
MAX 2	0.0	0.0	0.0					
MIN GAP	0.0	0.0	0.0					
TIME BEFORE REDUCTION	0.0	0.0	0.0					
TIME TO REDUCE	0.0	0.0	0.0					
PED WALK	4.0	4.0	0.0					
PED CLEARANCE	20.0	19.0	0.0					
MODE	MAX RECALL	NON-LOCK	NON-LOCK					

NOTE: TIMINGS SHOWN ARE EXISTING AND OBTAINED FROM THE CITY OF ALEXANDRIA, EXCEPT VALUES IN BOLD, WHICH WERE CHANGED OR ADDED AS PART OF THIS PROJECT.

LEGEND

	EXISTING	PROPOSED
Controller Cabinet	☐	☐
Signal Junction Box (VDOT Std. JB-S2)	○	○
Signal Junction Box (VDOT Std. JB-S3)	□	□
Comm. Junction Box (VDOT Std. JB-S2)	○	○
Comm. Junction Box (VDOT Std. JB-S3)	□	□
Service Junction Box (VDOT Std. JB-S2)	○	○
Mast Arm Pole & Foundation	⊙	⊙
Pedestrian Pedestal Pole & Foundation	⊙	⊙
Carlyle Lighting Pole & Foundation	⊙	⊙
Service Meter	⊙	⊙
Battery Backup (UPS)	⊙	⊙
Vehicle Signal Head (LED)	⊙	⊙
Pedestrian Push Button	→ PB#	→ PB#
ITS PLUS Video Detection	→ VD#	→ VD#
Emergency Vehicle Preemption	→ PE#	→ PE#
CCTV Camera	→ CCTV	→ CCTV
Overhead Light (LED)	→ SL#	→ SL#
Conduit	-----	-----
Video Detection Zone (6' X 40')	-----	-----

WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS



CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

REVISIONS

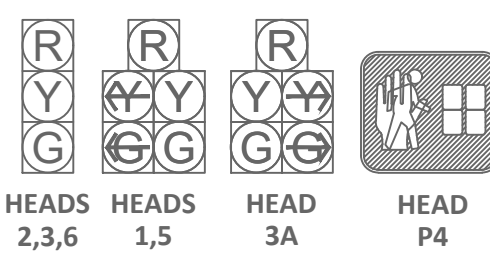
NO.	DATE	DESCRIPTION

TRAFFIC SIGNAL PLANS - VAN DORN ST AT TANEY AVE
 SHEET C-907
 SCALE 1" = 25'

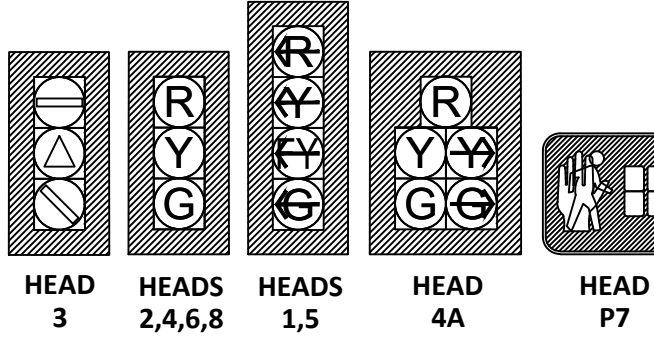
CONDUIT & CABLE LEGEND

- (A) 1-3" CONDUIT (TRENCHED) PVC
2-14/5c PEDESTRIAN SIGNAL HEADS P7
2-14/2c PEDESTRIAN PUSH BUTTONS PB2, PB3
1-#6 AWG
- (B) 1-3" CONDUIT (BORED) HDPE
2-14/5c PEDESTRIAN SIGNAL HEADS P7
2-14/2c PEDESTRIAN PUSH BUTTONS PB2, PB3
1-#6 AWG
- (C) 1-3" CONDUIT (TRENCHED) PVC
2-14/5c PEDESTRIAN SIGNAL HEADS P7
2-14/2c PEDESTRIAN PUSH BUTTONS PB4, PB5
1-#6 AWG
- (D) 1-3" CONDUIT (BORED) HDPE
4-14/5c PEDESTRIAN SIGNAL HEADS P7
4-14/2c PEDESTRIAN PUSH BUTTONS PB2, PB3, PB4, PB5
1-#6 AWG
- (E) 2-3" CONDUITS (TRENCHED) PVC
8-14/7c TRAFFIC SIGNAL HEADS 1, 2, 4, 4A, 5, 6, 8
5-VIDEO DETECTOR CABLES VD1, VD2, VD3, VD4, VD5, VD6, VD8
2-#6 AWG
- (F) 1-2" CONDUIT (TRENCHED) PVC
4-OPTICOM CABLES PE1, PE2, PE4, PE5, PE6, PE8
1-#6 AWG
- (G) 1-3" CONDUIT (TRENCHED) PVC
1-14/5c PEDESTRIAN SIGNAL HEAD P7
1-14/2c PEDESTRIAN PUSH BUTTON PB1
1-#6 AWG
- (H) 1-3" CONDUIT (TRENCHED) PVC
1-14/5c PEDESTRIAN SIGNAL HEAD P7
1-14/2c PEDESTRIAN PUSH BUTTON PB8
1-#6 AWG
- (I) 2-3" CONDUITS (BORED) HDPE
8-14/7c TRAFFIC SIGNAL HEADS 1, 2, 4, 4A, 5, 6, 8
2-14/5c PEDESTRIAN SIGNAL HEADS P7
2-14/2c PEDESTRIAN PUSH BUTTONS PB1, PB8
5-VIDEO DETECTOR CABLES VD1, VD2, VD3, VD4, VD5, VD6, VD8
2-#6 AWG
- (J) 1-2" CONDUIT (BORED) HDPE
4-OPTICOM CABLES PE1, PE2, PE4, PE5, PE6, PE8
1-#6 AWG
- (K) 1-3" CONDUIT (TRENCHED) PVC
1-14/7c TRAFFIC SIGNAL HEAD 4
1-14/5c PEDESTRIAN SIGNAL HEAD P7
1-14/2c PEDESTRIAN PUSH BUTTON PB7
1-#6 AWG
- (L) 1-3" CONDUIT (TRENCHED) PVC
1-14/7c TRAFFIC SIGNAL HEAD 3
1-14/5c PEDESTRIAN SIGNAL HEAD P7
1-14/2c PEDESTRIAN PUSH BUTTON PB6
1-#6 AWG
- (M) 3-3" CONDUITS (TRENCHED) PVC
10-14/7c TRAFFIC SIGNAL HEADS 1, 2, 3, 4, 4A, 5, 6, 7, 8
8-14/5c PEDESTRIAN SIGNAL HEADS P7
8-14/2c PEDESTRIAN PUSH BUTTONS PB1, PB2, PB3, PB4, PB5, PB6, PB7, PB8
5-VIDEO DETECTOR CABLES VD1, VD2, VD3, VD4, VD5, VD6, VD8
3-#6 AWG
- (N) 1-3" CONDUIT (TRENCHED) PVC (SPARE)
1-#6 AWG
- (O) 1-2" CONDUIT (TRENCHED) PVC
4-OPTICOM CABLES PE1, PE2, PE4, PE5, PE6, PE8
1-#6 AWG
- (P) 1-2" CONDUIT (TRENCHED) METAL
1-1,100 LB PULL ROPE

EXISTING SIGNALS TO BE REMOVED

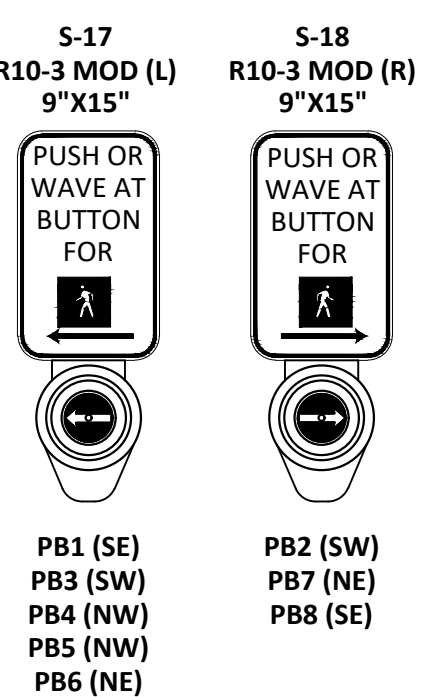


PROPOSED SIGNALS



NOTE: ALL TRAFFIC SIGNAL HEAD SECTIONS SHALL BE 12" LEDS.

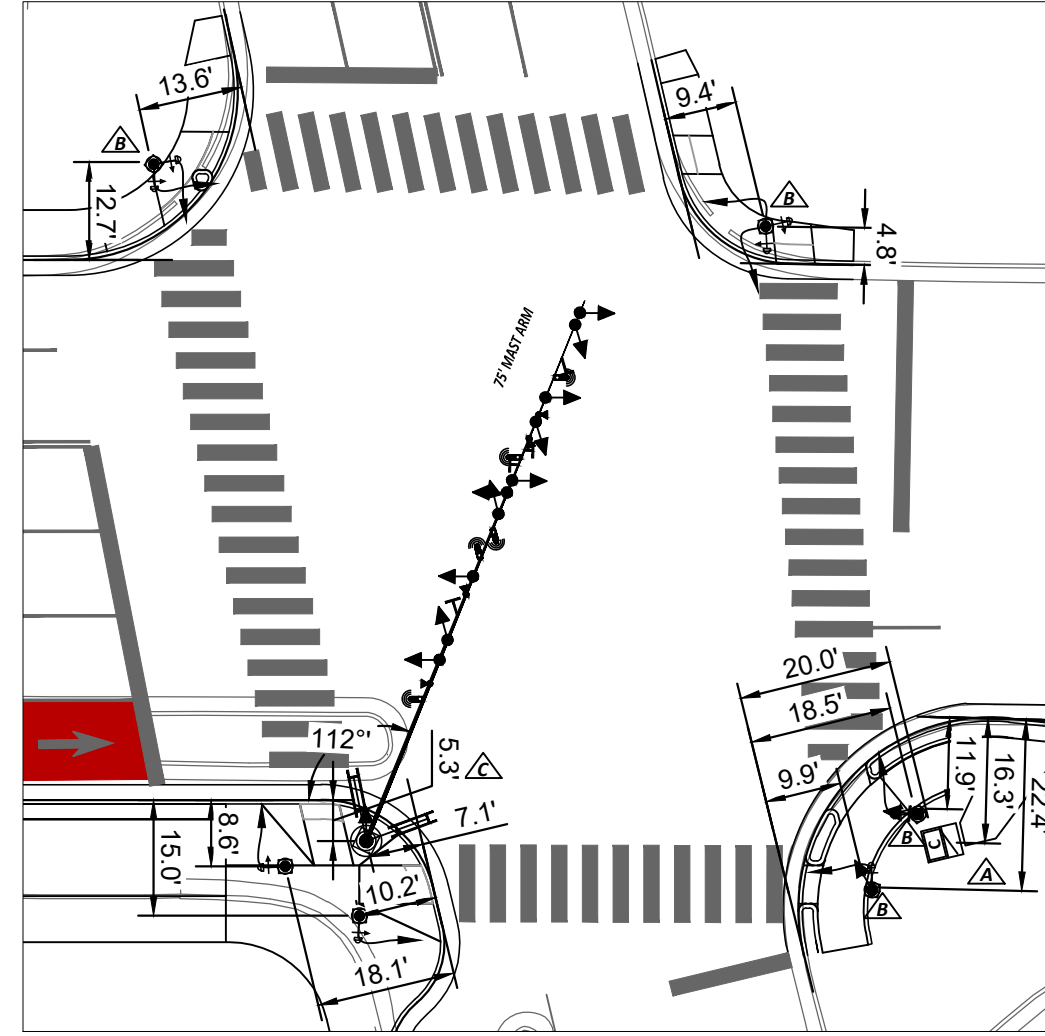
PROPOSED ACCESSIBLE PEDESTRIAN PUSHBUTTON



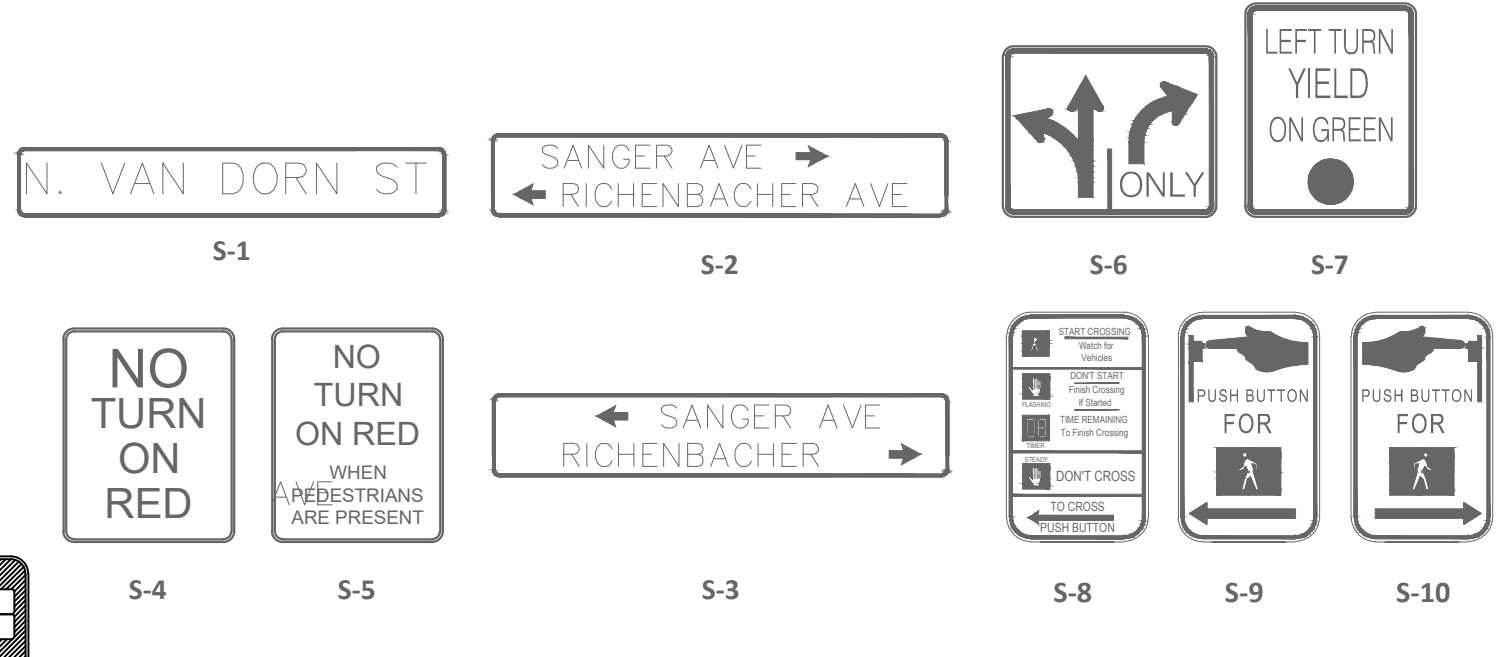
SIGNAL POLE AND CONTROLLER LEGEND:

- CONTROLLER CABINET AND FOUNDATION (CF-3)
 - 10' PEDESTAL POLE (PF-2) - 6 TOTAL
 - MAST ARM POLE (MP-3) TYPE B2
75' MAST ARM
SIGNAL PLACEMENT: Δ12', 25', 27', 36', 45', 48', 50', 58', 61', 71', 73'
SIGNAL PLACEMENT: Δ16', Δ16', 31', 52', 54', 67'
VIDEO DETECTION PLACEMENT: 19', 38', 39', 43', 64'
EMERGENCY VEHICLE PREEMPTION PLACEMENT: 21', 38', 56', 59'
- Δ - INDICATES VERTICAL PLACEMENT ON THE SIGNAL POLE

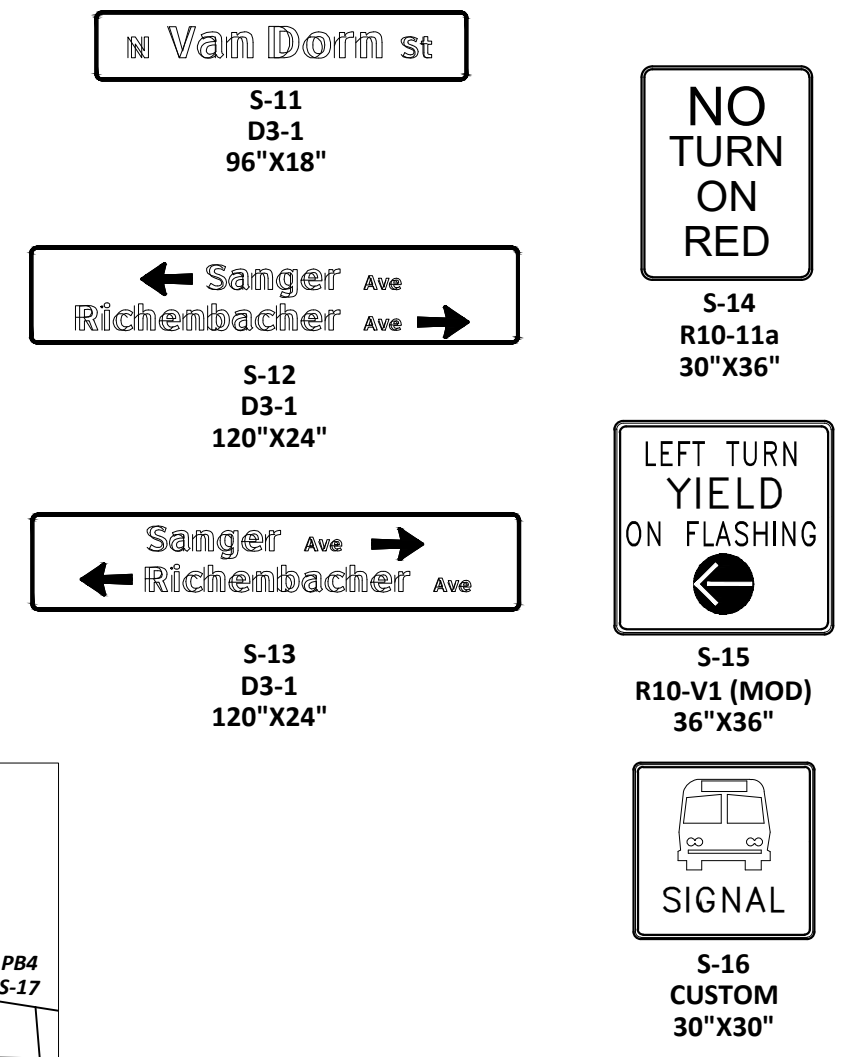
POLE LOCATION DETAIL
(SCALE: 1" = 25')



EXISTING SIGNS TO BE REMOVED



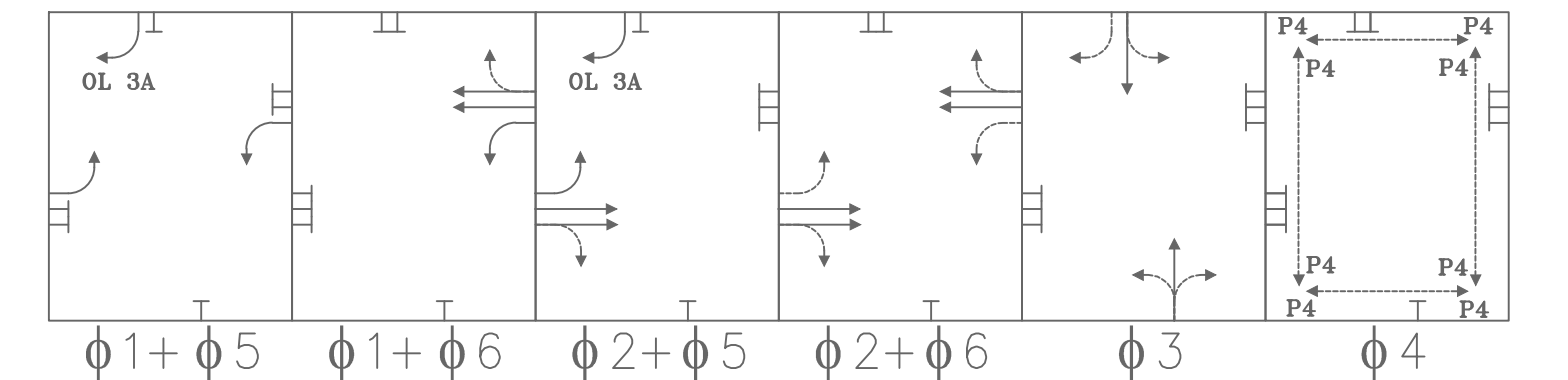
PROPOSED SIGNS



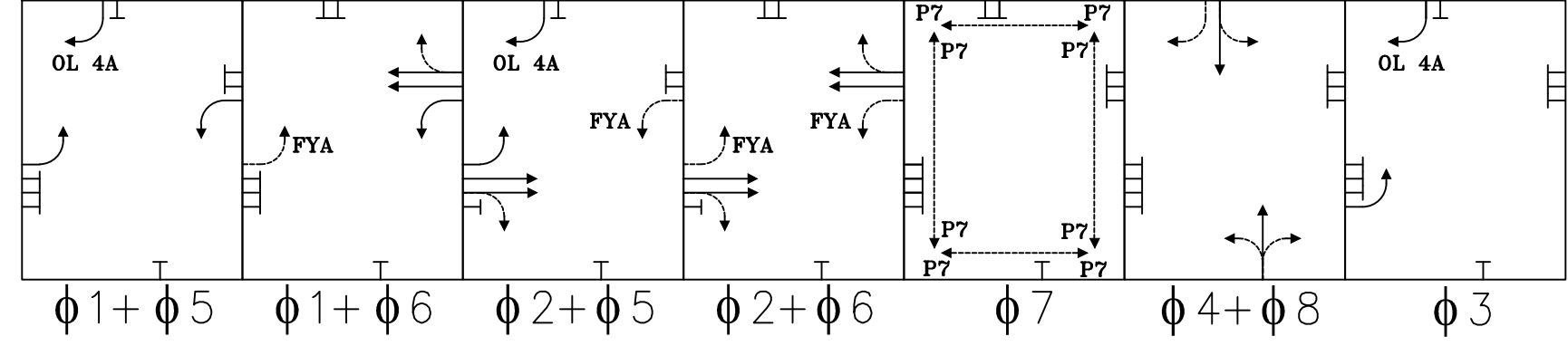
CONSTRUCTION NOTES

- 1 REMOVE EXISTING SIGNAL CABINET.
- 2 REMOVE EXISTING TRAFFIC SIGNAL POLE, SPANWIRE, SIGNALS, PEDESTRIAN SIGNALS, PUSHBUTTONS, AND SIGNS. REMOVE EXISTING FOUNDATION TO A MINIMUM DEPTH OF 24" BELOW GRADE.
- 3 INSTALL SIGNAL CONTROLLER CABINET AND FOUNDATION. INSTALL CALIX 716GE OPTICAL NETWORK TERMINAL ETHERNET SWITCH IN SIGNAL CONTROLLER CABINET. CABINET SHALL BE ORIENTED SO THAT CABINET DOOR OPENS TOWARD SIDEWALK AND SO THAT TECHNICIAN HAS VIEW OF SIGNAL DISPLAYS.
- 4 INSTALL CABINET MOUNTED METER BASE PER VDOT STD. SE-6.
- 5 INSTALL VDOT STD. PF-2 WITH PEDESTRIAN SIGNAL(S), ACCESSIBLE PEDESTRIAN SIGNAL PUSH BUTTON(S), AND SIGN(S).
- 6 INSTALL VDOT STD. PF-2 WITH PEDESTRIAN SIGNAL, ACCESSIBLE PEDESTRIAN SIGNAL PUSH BUTTON, SIGNS, AND 3-SECTION SIGNAL HEAD. MOUNT SIGNAL HEAD ACCORDING TO VDOT STD. SMB-1.
- 7 INSTALL MAST ARM SIGNAL POLE WITH TRAFFIC SIGNAL HEADS, VIDEO DETECTION, EMERGENCY VEHICLE PREEMPTION, AND SIGNS.
- 8 CONTRACTOR TO ENSURE POLE FOUNDATION IS FLUSH WITH SIDEWALK GRADE WHEN INSTALLED ON OR ADJACENT TO SIDEWALK. INCORPORATE POLE FOUNDATION INTO CG-2 WHEN INSTALLED ADJACENT TO CURB RAMP.
- 9 DESIGN OF NEW SIDEWALK, CURB RAMPS, AND CURB AND GUTTER ARE SHOWN BEGINNING ON SHEET C-101.
- 10 DESIGN OF NEW PAVEMENT MARKINGS ARE SHOWN BEGINNING ON SHEET C-601.
- 11 12 STRAND PON DROP CABLE TO BE REMOVED AND REPLACED WITH NEW CONNECTION TO PROPOSED SIGNAL CABINET IN THE EXISTING SPLICE. SEE SPLICE DIAGRAM AS PER SHEET C-908A.

EXISTING PHASING DIAGRAM

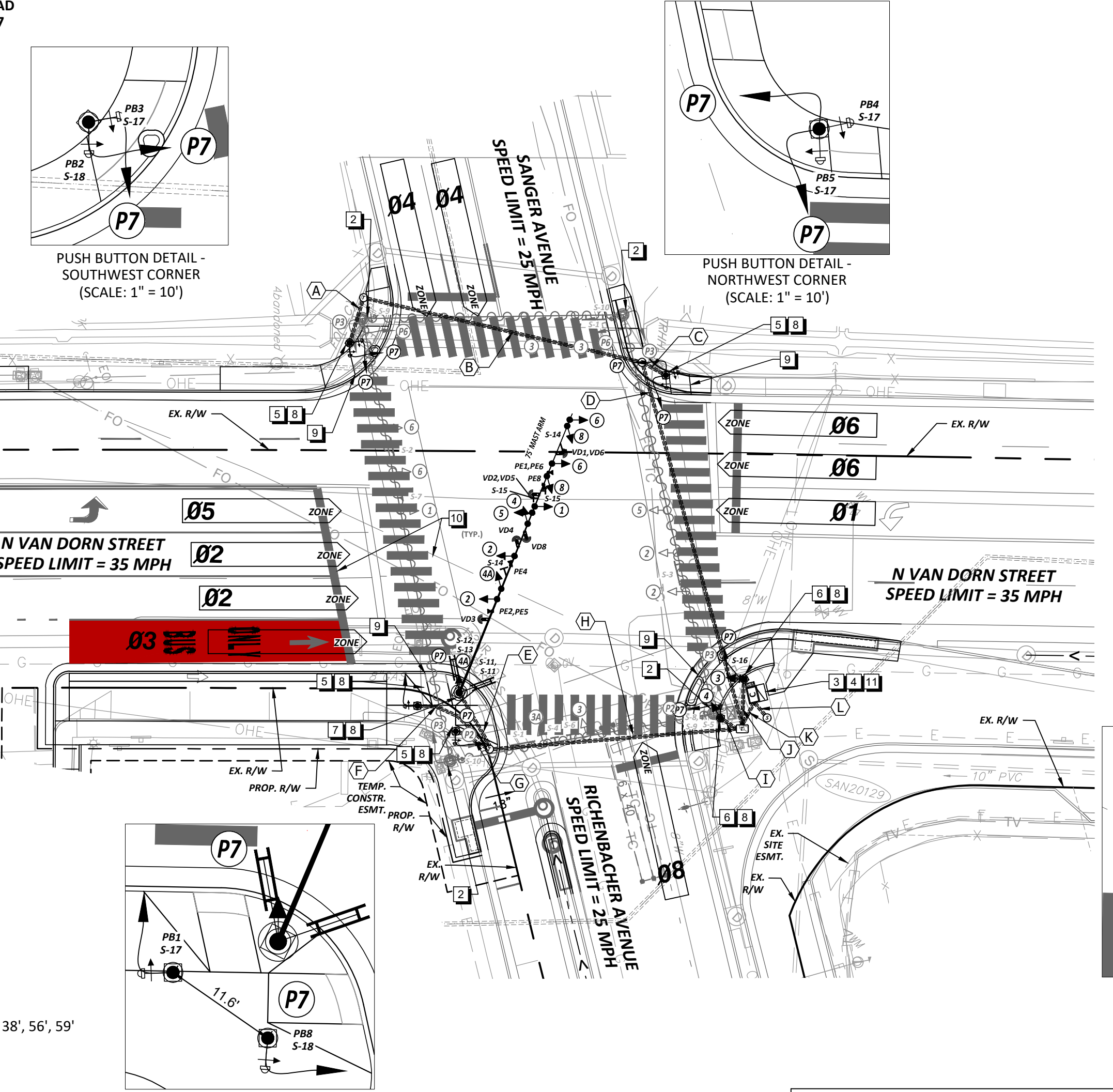
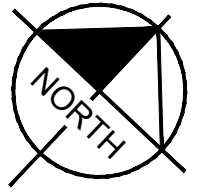
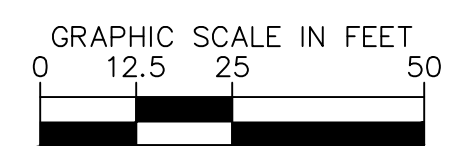


PROPOSED PHASING DIAGRAM



PHASING DIAGRAM LEGEND:
 → PERMISSIVE MOVEMENT
 → PROTECTED MOVEMENT

PUSHBUTTON (QUADRANT)	SPEECH PB INFORMATION MESSAGE	AUDIBLE WALK INDICATION
PB3, PB4	WAIT TO CROSS NORTH VAN DORN AT SANGER	WALK SIGN IS ON TO CROSS ALL DIRECTIONS
PB1, PB6	WAIT TO CROSS NORTH VAN DORN AT RICHENBACHER	WALK SIGN IS ON TO CROSS ALL DIRECTIONS
PB2, PB5	WAIT TO CROSS SANGER AT NORTH VAN DORN	WALK SIGN IS ON TO CROSS ALL DIRECTIONS
PB7, PB8	WAIT TO CROSS RICHENBACHER AT NORTH VAN DORN	WALK SIGN IS ON TO CROSS ALL DIRECTIONS



COLOR SEQUENCE CHART

PHASE	1	2	3	4	5	6	7	8	1+5	1+6	2+5	2+6	4+8	FLASH
SIGNAL	R/W	R/W	R/W	R/W	R/W	R/W	R/W	R/W	R/W	R/W	R/W	R/W	R/W	
1	<G								<G	<G	<FY	<FY	<FY	<Y
2		G									G	G		Y
3														-
4				G									G	R
4A			R	G	R	<G			R	<G	R	<G	G	R
5					<G				<G	<FY	<FY	<FY		<Y
6						G				G		G		Y
8							G						G	R
P7								W*						DARK

NOTE: BLANK SPACES IN THIS CHART REPRESENT A "RED" SIGNAL INDICATION.
 "W" - WALK "FY" - FLASHING YELLOW
 *WALK INDICATION IS DISPLAYED WHEN PEDESTRIAN CALL IS SERVICED; WALK INDICATION IS DISPLAYED UNTIL IT IS TIMED OUT. OTHERWISE "DON'T WALK" INDICATION IS DISPLAYED.

INITIAL TIMING CHART

PHASE	1	2	3	4	5	6	7	8
MOVEMENT	SB LT N VAN DORN	NB N VAN DORN	BUS	EB SANGER	NB LT N VAN DORN	SB N VAN DORN	PEDESTRIAN	WB RICHENBACHER
PHASE ON	X	X	X	X	X	X	X	X
PHASE OFF								
MIN GR	4.0	10.0	6.0	10.0	8.0	10.0	0.0	10.0
PASSAGE	4.0	0.0	0.0	4.0	2.0	0.0	0.0	4.0
YELLOW	4.7	4.7	3.0	3.5	4.7	4.7	0.0	3.5
RED	2.3	2.3	4.0	3.1	2.3	2.3	3.0	3.1
MAX 1	14.0	45.0	6.0	20.0	19.0	45.0	0.0	20.0
MAX 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MIN GAP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TIME BEFORE REDUCTION	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TIME TO REDUCE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PED WALK	0.0	0.0	0.0	0.0	0.0	0.0	5.0	0.0
PED CLEARANCE	0.0	0.0	0.0	0.0	0.0	0.0	18.0	0.0
MODE	NON-LOCK	MAX RECALL	NON-LOCK	NON-LOCK	NON-LOCK	MAX RECALL	NON-LOCK	NON-LOCK

NOTE: TIMINGS SHOWN ARE EXISTING AND OBTAINED FROM THE CITY OF ALEXANDRIA, EXCEPT VALUES IN BOLD, WHICH WERE CHANGED OR ADDED AS PART OF THIS PROJECT.

LEGEND

- Controller Cabinet
- Signal Junction Box (VDOT Std. JB-S2)
- Signal Junction Box (VDOT Std. JB-S3)
- Comm. Junction Box (VDOT Std. JB-S1)
- Comm. Junction Box (VDOT Std. JB-S3)
- Service Junction Box (VDOT Std. JB-S1)
- Mast Arm Pole & Foundation
- Pedestrian Pedestal Pole & Foundation
- Carlyle Lighting Pole & Foundation
- Service Meter
- Battery Backup (UPS)
- Vehicle Signal Head (LED)
- Pedestrian Push Button
- Video Detection Camera
- Emergency Vehicle Preemption
- CCTV Vehicle Camera
- Overhead Light (LED)
- Conduit
- Video Detection Zone (6' X 40')

WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

TRAFFIC SIGNAL PLANS - VAN DORN ST AT SANGER AVE

CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

90% DESIGN PHASE

REVISIONS	DESCRIPTION

ALEXANDRIA PROJECT NO.: 110104122
 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: DATE: 7/11/24
 DRAWN BY: DATE: 7/11/24
 CHECKED BY: DATE: 7/11/24
 APPROVED BY: DATE:

SHEET C-908
 SCALE 1" = 25'

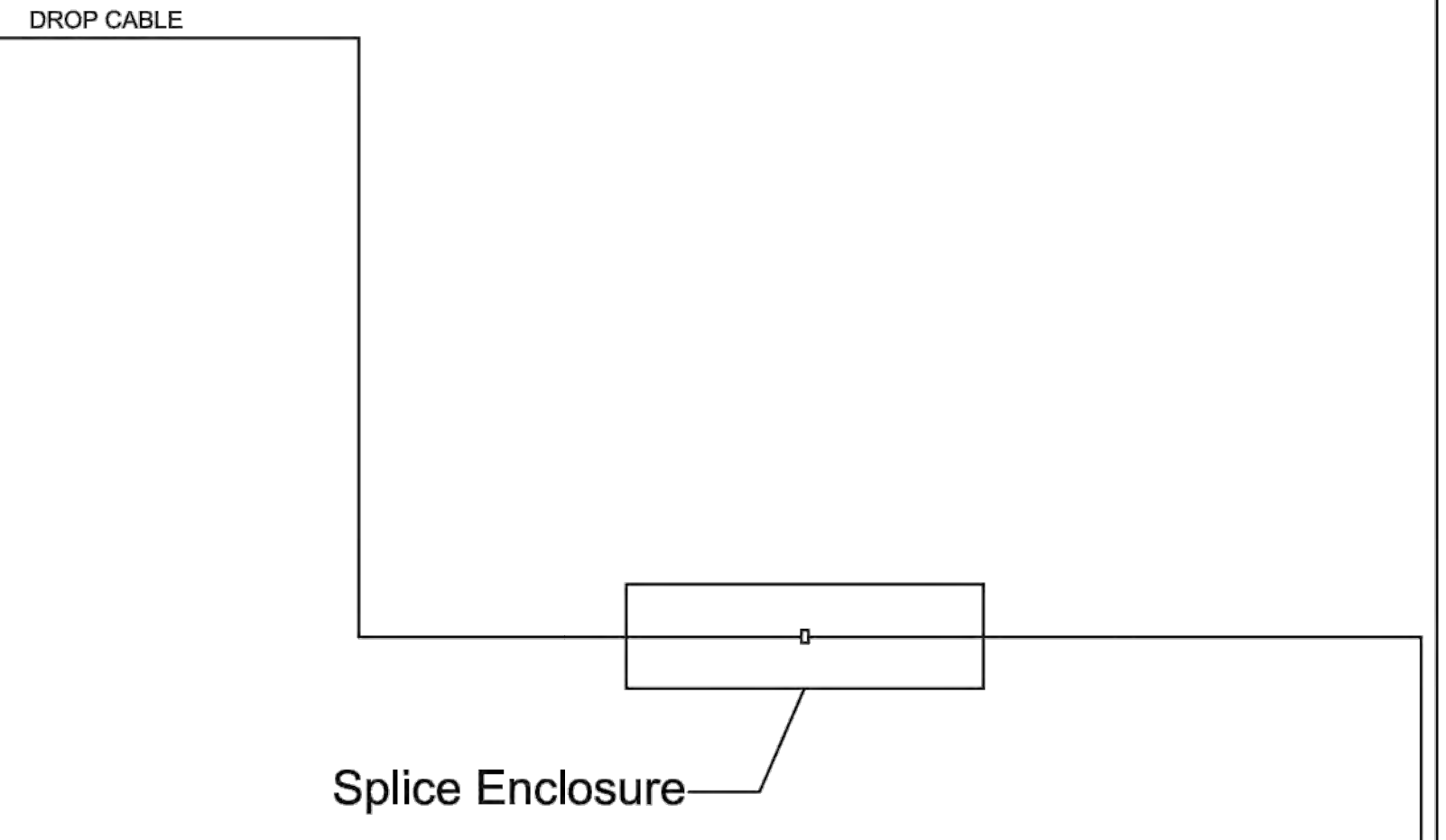
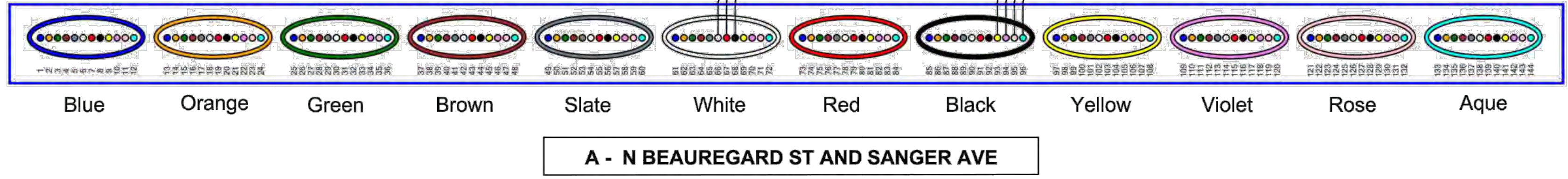
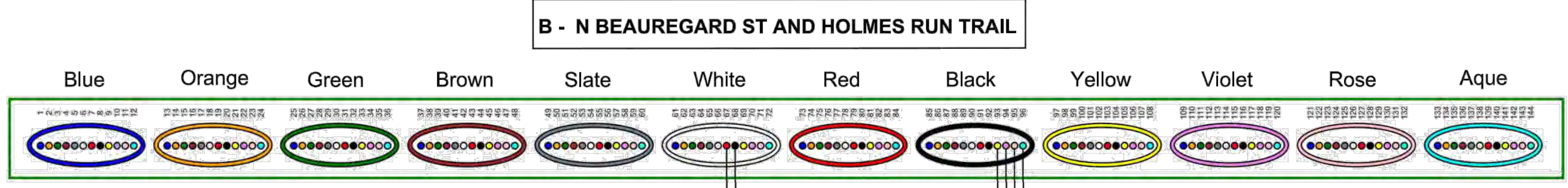
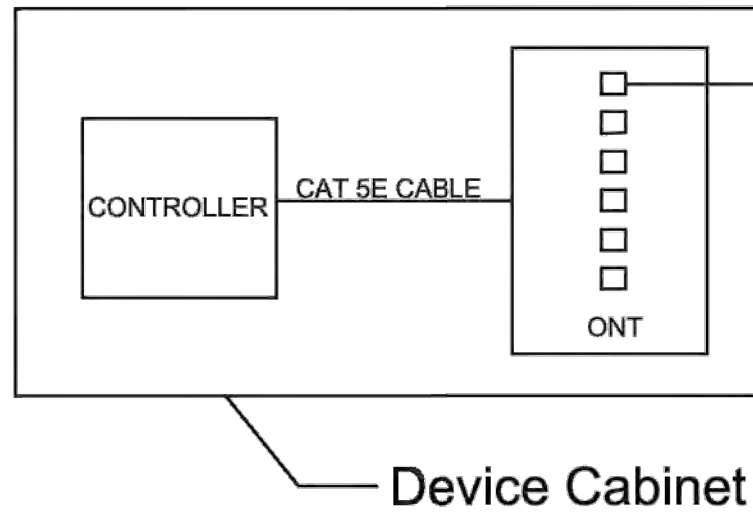
Plotted By: LdShier, Richard Sheet Set: West End Transitiway - Phase 1 Layout: SPlicing Diagram VAN DORN ST AT SANGER AVE July 11, 2024 06:33:02pm K:\NVA_Transit\110104122_West_End_Transitiway_Design\CADD\PlanSheets\COMMUNICATIONS_PLANS.dwg

CONSTRUCTION NOTES

1. SPLICE DIAGRAM SHOWN REFERENCED FROM ITS PHASE IV PLANS FROM THE CITY.
2. CONTRACTOR TO CONFIRM THAT THE CITY OF ALEXANDRIA ITS PHASE II-IV PLANS HAVE BEEN BUILT AND THAT SPLICE DIAGRAM SHOWN IN THIS SHEET MATCHES WITH EXISTING CONDITIONS. CONTRACTOR TO CONFIRM FIBER CONNECTIONS WITH THE CITY PRIOR TO THE INSTALLATION.

RAVINDRA RAUT
Lic. No. 037194
PROFESSIONAL ENGINEER

Ravindra K Raut
Digitally signed by Ravindra K Raut
DN: cn=Ravindra K Raut, c=US, o=Virginia, email=ravindra.Raut@wsp.com
Date: 2023.09.12 21:46:04 -04'00'



FIBER JUNCTION BOX - N VAN DORN ST & SANGER AVE

LEGEND

- Blue - BFO 144 to Pullbox @ N Beauregard & Sanger
- Green - BFO 144 to Pullbox @ N Van Dorn & Holmes Run

FOR THE PURPOSES OF CLARITY ONLY ACTIVE FIBERS IN PON NETWORK ARCHITECTURE ARE SHOWN AS CONNECTED IN SECTION 8 OF THESE PLANS. ACTIVE CCTV NETWORK ARCHITECTURE IS SHOWN ELSEWHERE. ALL UNUSED FIBERS SHOULD BE ASSIGNED TO BE EXPRESS THRU.

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13530 DULLES TECHNOLOGY DRIVE, SUITE 300
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FINAL DESIGN SUBMITTAL

CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

ALEXANDRIA PROJECT NO.: 1905014
DATE OF PLAN ISSUANCE: N/A
CONSULTANT PROJECT ID: N/A
DESIGNED BY: PY DATE: 05/19/23
DRAWN BY: PY DATE: 05/19/23
CHECKED BY: RR DATE: 05/19/23
APPROVED BY: XX DATE: 05/19/23

REVISIONS

DATE	DESCRIPTION

SPLICING DIAGRAM
N VAN DORN ST & SANGER AVE

SHEET
7-45
SCALE **N.T.S.**

WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

TRAFFIC SIGNAL PLANS -
SPLICING DIAGRAM
VAN DORN ST AT
SANGER AVE

ALEXANDRIA PROJECT NO.: 110104122
DATE OF PLAN ISSUANCE: N/A
CONSULTANT PROJECT ID: N/A
DESIGNED BY: PY DATE: 05/19/23
DRAWN BY: PY DATE: 05/19/23
CHECKED BY: RR DATE: 05/19/23
APPROVED BY: XX DATE: 05/19/23

REVISIONS

DATE	DESCRIPTION

CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

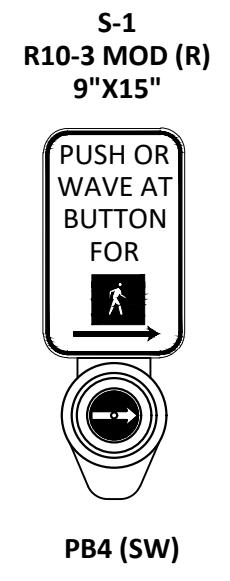
SHEET
C-908A
SCALE N/A

Plotted By: LdShier, Richard Sheet Set: West End Transitway - Phase 1 Layout: TRAFFIC SIGNAL PLANS - SANGER AVE AT TRENT CT July 11, 2024 06:36:17pm K:\NVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\SIGNAL PLANS SANGER FILLMORE.dwg

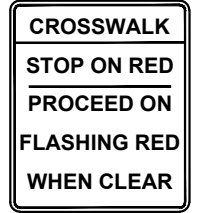
CONDUIT & CABLE LEGEND

- (A)** 1-3" CONDUIT (TRENCHED) PVC
1-14/7c TRAFFIC SIGNAL HEAD 2
1-14/5c PEDESTRIAN SIGNAL HEAD P4
1-14/2c PEDESTRIAN PUSH BUTTON PB4
1-#6 AWG
- (B)** 1-3" CONDUIT (BORED) PVC
1-14/7c TRAFFIC SIGNAL HEAD 2
1-14/5c PEDESTRIAN SIGNAL HEAD P4
1-14/2c PEDESTRIAN PUSH BUTTON PB4
1-#6 AWG
- (C)** 1-3" CONDUIT (TRENCHED) PVC
4-14/7c TRAFFIC SIGNAL HEADS 2, 6
1-#6 AWG
- (D)** 1-3" CONDUIT (BORED) PVC
4-14/7c TRAFFIC SIGNAL HEADS 2, 6
1-#6 AWG
- (E)** 1-3" CONDUIT (TRENCHED) PVC
1-14/5c PEDESTRIAN SIGNAL HEAD P4
1-14/2c PEDESTRIAN PUSH BUTTON PB4
1-#6 AWG
- (F)** 2-3" CONDUIT (TRENCHED) PVC
5-14/7c TRAFFIC SIGNAL HEADS 2, 6
2-14/5c PEDESTRIAN SIGNAL HEADS P4
2-14/2c PEDESTRIAN PUSH BUTTONS PB4
2-#6 AWG
- 1-3" CONDUIT (TRENCHED) PVC (SPARE)
1-#6 AWG
- (G)** 1-2" CONDUIT (TRENCHED) METAL
1-1,100 LB PULL ROPE

PROPOSED ACCESSIBLE PEDESTRIAN PUSHBUTTON

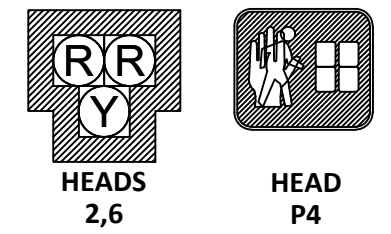


PROPOSED SIGNS



S-2
R10-23A
30"X36"

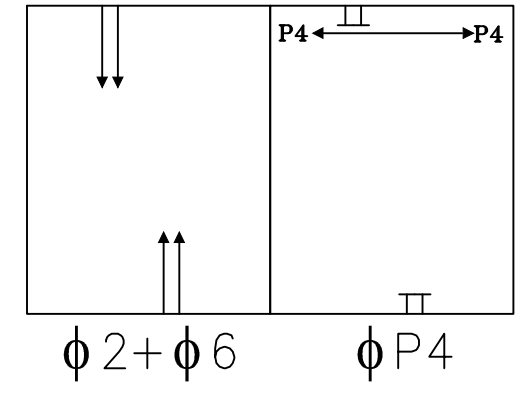
PROPOSED SIGNALS



NOTES:
1. ALL TRAFFIC SIGNAL HEAD SECTIONS SHALL BE 12" LEDS.
2. ALL VEHICLE SIGNALS SHALL BE EQUIPPED WITH POLYCARBONATE BACKPLATES WITH RETROREFLECTIVE BORDERS.

PROPOSED SIGNALS

PROPOSED PHASING DIAGRAM



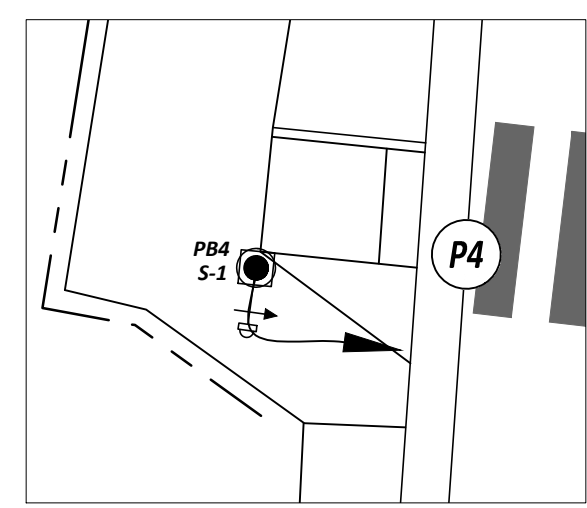
SIGNAL OPERATIONS WHEN A PEDESTRIAN MOVEMENT (PHASE P4) IS SERVED SHALL OPERATE AS FOLLOWS:

1. DARK VEHICLE SIGNALS
2. FLASHING YELLOW INTERVAL (MINIMUM 5 SECONDS)
3. VEHICLE YELLOW AND ALL RED CLEARANCE
4. WALK SIGNAL WITH STEADY RED
5. FLASHING DON'T WALK WITH ALTERNATE FLASHING RED
6. DARK VEHICLE SIGNALS

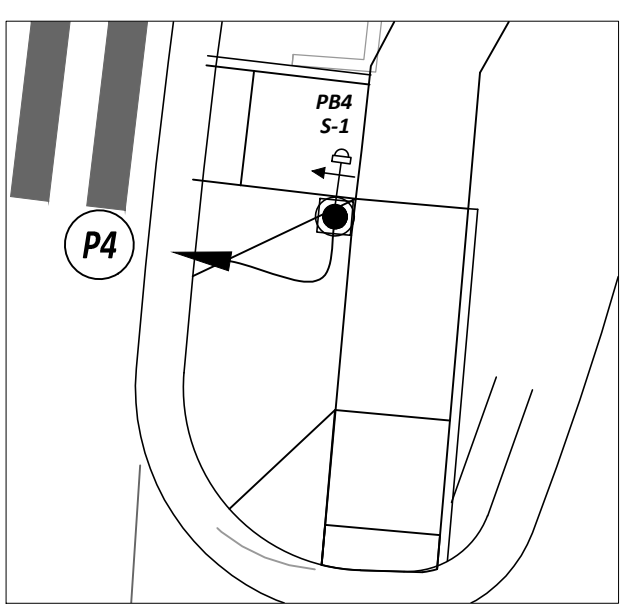
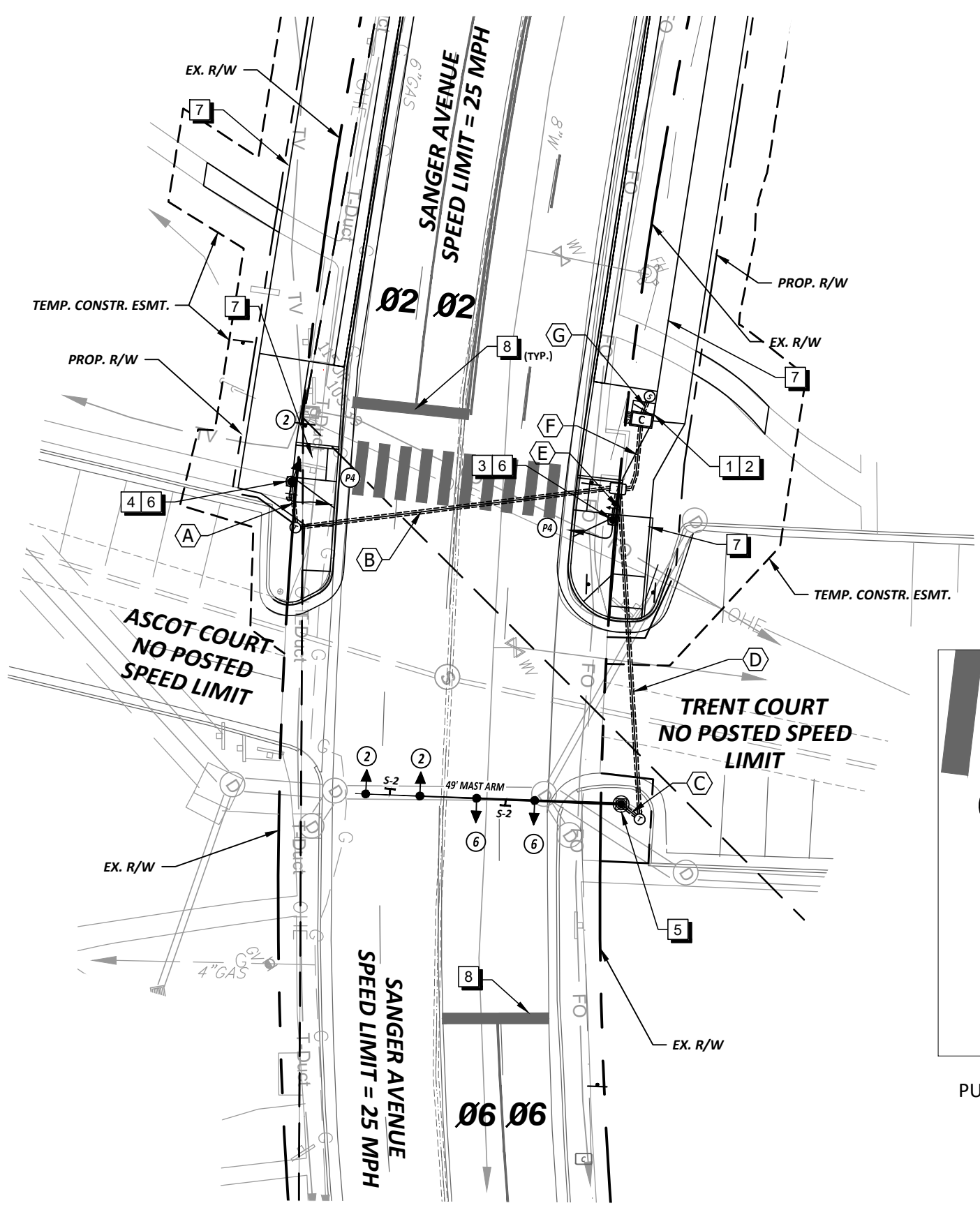
CONSTRUCTION NOTES

1. INSTALL SIGNAL CONTROLLER CABINET. CABINET SHALL BE ORIENTED SO THAT CABINET DOOR OPENS TOWARD SIDEWALK AND SO THAT TECHNICIAN HAS VIEW OF SIGNAL DISPLAYS.
2. INSTALL CABINET MOUNTED METER BASE PER VDOT STD. SE-6.
3. INSTALL VDOT STD. PF-2 WITH ACCESSIBLE PEDESTRIAN SIGNAL, ACCESSIBLE PEDESTRIAN PUSH BUTTON, AND SIGN.
4. INSTALL VDOT STD. PF-2 WITH ACCESSIBLE PEDESTRIAN SIGNAL, ACCESSIBLE PEDESTRIAN PUSH BUTTON, SIGN, AND FLASHING BEACON SIGNAL. MOUNT FLASHING BEACON SIGNAL ACCORDING TO VDOT STD. SMB-1.
5. INSTALL MAST ARM SIGNAL POLE WITH TRAFFIC SIGNAL HEADS AND SIGNS.
6. CONTRACTOR TO ENSURE POLE FOUNDATION IS FLUSH WITH SIDEWALK GRADE WHEN INSTALLED ADJACENT TO SIDEWALK.
7. DESIGN OF NEW SIDEWALK, CURB RAMPS, AND CURB AND GUTTER ARE SHOWN BEGINNING ON SHEET C-101.
8. DESIGN OF NEW PAVEMENT MARKINGS ARE SHOWN BEGINNING ON SHEET C-601.

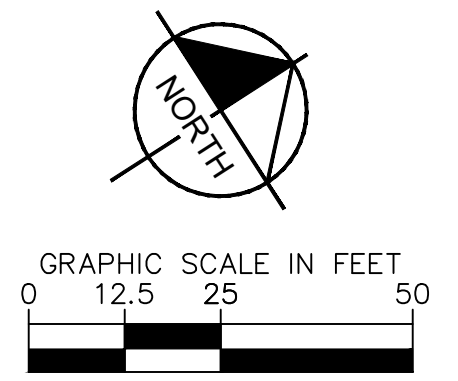
PUSHBUTTON (QUADRANT)	SPEECH PB INFORMATION MESSAGE	AUDIBLE WALK INDICATION
PB4 (SW)	WAIT TO CROSS SANGER AT ASCOT	PERCUSSIVE TONE
PB4 (NW)	WAIT TO CROSS SANGER AT TRENT	PERCUSSIVE TONE



PUSH BUTTON DETAIL - SOUTHWEST CORNER (SCALE: 1" = 10')

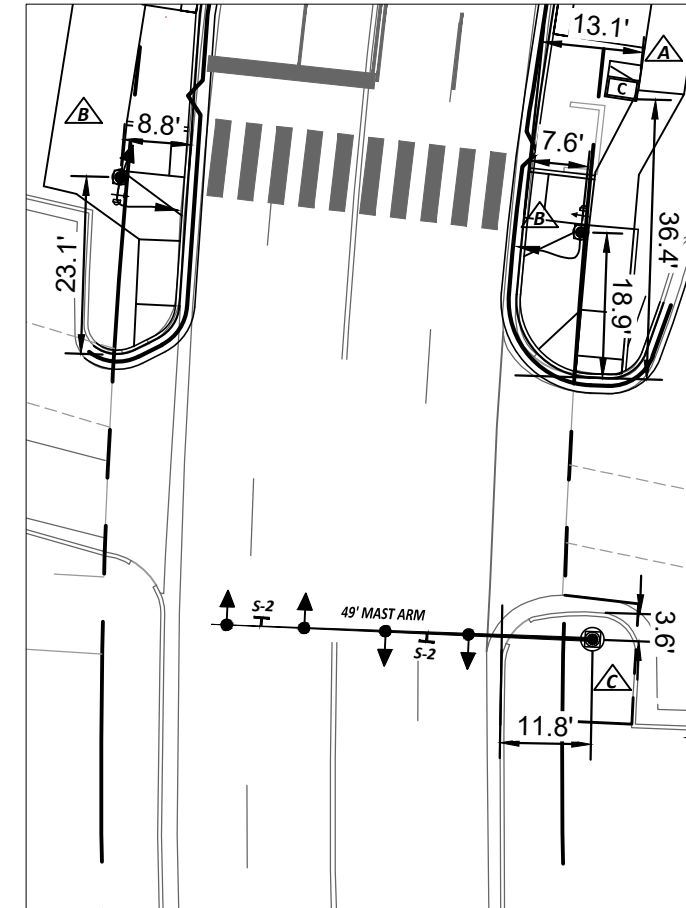


PUSH BUTTON DETAIL - NORTHWEST CORNER (SCALE: 1" = 10')



POLE LOCATION DETAIL

(SCALE: 1" = 25')



SIGNAL POLE AND CONTROLLER LEGEND:

- △ CONTROLLER CABINET AND FOUNDATION (CF-2)
- △ 10' PEDESTAL POLE (PF-2) - 2 TOTAL
- △ MAST ARM POLE (MP-3) TYPE A
49' MAST ARM
SIGNAL PLACEMENT: 16', 27', 38', 48'
SIGN PLACEMENT: 22', 43'

COLOR SEQUENCE CHART

PHASE	2	4	6	2+6	FLASH
SIGNAL R/W	R/W	R/W	R/W	R/W	
2	DARK	R	DARK	DARK	Y
P4		W*			DARK

NOTE: BLANK SPACES IN THIS CHART REPRESENT A "RED" SIGNAL INDICATION.
*WALK INDICATION IS DISPLAYED WHEN PEDESTRIAN CALL IS SERVICED; WALK INDICATION IS DISPLAYED UNTIL IT IS TIMED OUT. OTHERWISE "DON'T WALK" INDICATION IS DISPLAYED.

INITIAL TIMING CHART								
PHASE	1	2	3	4	5	6	7	8
MOVEMENT		EB SANGER		PEDESTRIAN		WB SANGER		
PHASE ON		X		X		X		
PHASE OFF	X		X		X		X	X
MIN GR		15.0		5.0		15.0		
PASSAGE		0.0		0.0		0.0		
YELLOW		3.6		0.0		3.6		
RED		1.0		3.0		1.0		
MAX 1		60.0		15.0		60.0		
MAX 2		60.0		15.0		60.0		
MIN GAP		0.0		0.0		0.0		
TIME BEFORE REDUCTION		0.0		0.0		0.0		
TIME TO REDUCE		0.0		0.0		0.0		
PED WALK		0.0		7.0		0.0		
PED CLEARANCE		0.0		8.0		0.0		
MODE		MAX RECALL		NON-LOCK		MAX RECALL		

LEGEND

	EXISTING	PROPOSED
Controller Cabinet	☒	☒
Signal Junction Box (VDOT Std. JB-S2)	○	○
Signal Junction Box (VDOT Std. JB-S3)	□	□
Comm. Junction Box (VDOT Std. JB-S2)	○	○
Comm. Junction Box (VDOT Std. JB-S3)	□	□
Service Junction Box (VDOT Std. JB-S2)	○	○
Mast Arm Pole & Foundation	⊙	⊙
Pedestrian Pedestal Pole & Foundation	⊙	⊙
Carlyle Lighting Pole & Foundation	*	*
Service Meter	⊞	⊞
Battery Backup (UPS)	⊞	⊞
Vehicle Signal Head (LED)	⊞	⊞
Pedestrian Push Button	→ PB#	→ PB#
Video Detection Camera	→ VD#	→ VD#
Emergency Vehicle Preemption	→ PE#	→ PE#
CCTV Vehicle Camera	→ CCTV	→ CCTV
Overhead Light (LED)	→ SL#	→ SL#
Conduit	-----	-----
Video Detection Zone (6' x 40')	→ ZONE	→ ZONE

90% DESIGN PHASE

WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS



CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

REVISIONS	DESCRIPTION
DATE	
BY	

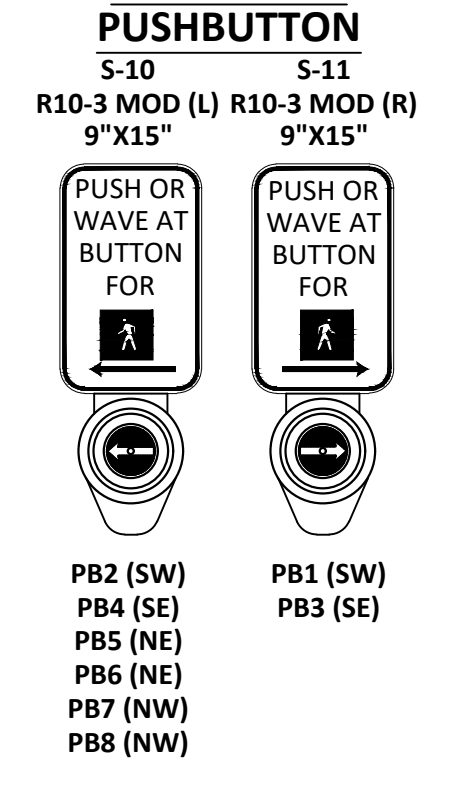
ALEXANDRIA PROJECT NO.:	110104122
DATE OF PLAN ISSUANCE:	N/A
CONSULTANT PROJECT ID.:	N/A
DESIGNED BY:	PGJ DATE: 7/11/24
DRAWN BY:	PGJ DATE: 7/11/24
CHECKED BY:	DCM DATE: 7/11/24
APPROVED BY:	DATE:

TRAFFIC SIGNAL PLANS - SANGER AVE AT TRENT CT
 SHEET C-909
 SCALE 1" = 25'

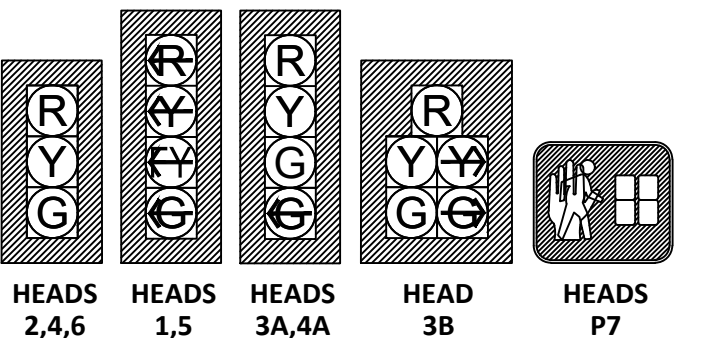
CONDUIT & CABLE LEGEND

- (A)** 1-3" CONDUIT (TRENCHED) PVC
3-14/7c TRAFFIC SIGNAL HEADS 3A, 4, 4A
1-VIDEO DETECTOR CABLE VD4
1-#6 AWG
- (B)** 1-2" CONDUIT (TRENCHED) PVC
1-OPTICOM CABLE PE4
1-#6 AWG
- (C)** 1-3" CONDUIT (TRENCHED) PVC
1-14/5c PEDESTRIAN SIGNAL HEAD P7
1-14/2c PEDESTRIAN PUSH BUTTON PB1
1-#6 AWG
- (D)** 1-3" CONDUIT (TRENCHED) PVC
2-14/5c PEDESTRIAN SIGNAL HEADS P7
1-14/2c PEDESTRIAN PUSH BUTTON PB2
1-#6 AWG
- (E)** 2-3" CONDUIT (BORED) HDPE
3-14/7c TRAFFIC SIGNAL HEADS 3A, 4, 4A
3-14/5c PEDESTRIAN SIGNAL HEADS P7
2-14/2c PEDESTRIAN PUSH BUTTON PB1, PB2
1-VIDEO DETECTOR CABLE VD4
2-#6 AWG
- (F)** 1-2" CONDUIT (BORED) HDPE
1-OPTICOM CABLE PE4
1-#6 AWG
- (G)** 1-3" CONDUIT (TRENCHED) PVC
2-14/7c TRAFFIC SIGNAL HEADS 3A, 3B
1-14/2c ILLUMINATED STREET NAME SIGN S-6
1-VIDEO DETECTOR CABLE VD3
1-#6 AWG
- (H)** 1-3" CONDUIT (TRENCHED) PVC
2-14/5c PEDESTRIAN SIGNAL HEADS P7
1-14/2c PEDESTRIAN PUSH BUTTON PB4
1-#6 AWG
- (I)** 1-3" CONDUIT (TRENCHED) PVC
2-14/7c TRAFFIC SIGNAL HEADS 1, 6
1-VIDEO DETECTOR CABLE VD1, VD6
1-14/5c PEDESTRIAN SIGNAL HEAD P7
1-14/2c PEDESTRIAN PUSH BUTTON PB8
1-#6 AWG
- (J)** 1-2" CONDUIT (TRENCHED) PVC
1-OPTICOM CABLE PE1, PE6
1-HYBRID CAMERA CABLE
1-#6 AWG
- (K)** 1-3" CONDUIT (TRENCHED) PVC
2-14/5c PEDESTRIAN SIGNAL HEADS P7
1-14/2c PEDESTRIAN PUSH BUTTON PB7
1-#6 AWG
- (L)** 1-3" CONDUIT (TRENCHED) PVC
2-14/7c TRAFFIC SIGNAL HEADS 1, 6
1-VIDEO DETECTOR CABLE VD1, VD6
3-14/5c PEDESTRIAN SIGNAL HEADS P7
2-14/2c PEDESTRIAN PUSH BUTTON PB7, PB8
1-#6 AWG
- (M)** 1-2" CONDUIT (TRENCHED) PVC
1-OPTICOM CABLE PE1, PE6
1-HYBRID CAMERA CABLE
1-#6 AWG
- (N)** 1-3" CONDUIT (BORED) HDPE
4-14/7c TRAFFIC SIGNAL HEADS 1, 3A, 3B, 6
3-14/5c PEDESTRIAN SIGNAL HEADS P7
2-14/2c PEDESTRIAN PUSH BUTTON PB7, PB8
2-VIDEO DETECTOR CABLE VD1, VD3, VD6
1-#6 AWG
- (O)** 1-2" CONDUIT (BORED) HDPE
2-OPTICOM CABLE PE1, PE3, PE6
1-HYBRID CAMERA CABLE
1-#6 AWG
- (P)** 1-3" CONDUIT (TRENCHED) PVC
2-14/5c PEDESTRIAN SIGNAL HEADS P7
1-14/2c PEDESTRIAN PUSH BUTTON PB5
1-#6 AWG
- (Q)** 3-3" CONDUITS (TRENCHED) PVC
9-14/7c TRAFFIC SIGNAL HEADS 1, 2, 3A, 3B, 4, 4A, 5, 6
12-14/5c PEDESTRIAN SIGNAL HEADS P7
8-14/2c PEDESTRIAN PUSH BUTTON PB1, PB2, PB3, PB4, PB5, PB6, PB7, PB8
4-14/2c ILLUMINATED STREET NAME SIGNS
5-6, 5-7
4-VIDEO DETECTOR CABLES VD1, VD2, VD3, VD4, VD5, VD6
3-#6 AWG
- (R)** 1-2" CONDUIT (TRENCHED) PVC (SPARE)
1-#6 AWG
- (S)** 1-2" CONDUIT (TRENCHED) PVC
1-12 STRAND PON DROP CABLE
1-#6 AWG
- (T)** 1-2" CONDUIT (TRENCHED) PVC
1-OPTICOM CABLE PE1, PE2, PE3, PE4, PE5, PE6
1-HYBRID CAMERA CABLE
1-#6 AWG
- (U)** 1-2" CONDUIT (TRENCHED) PVC
1-12 STRAND PON DROP CABLE
1-#6 AWG
- (V)** 1-2" CONDUIT (BORED) HDPE
2-OPTICOM CABLE PE1, PE3, PE6
1-HYBRID CAMERA CABLE
1-#6 AWG
- (W)** 1-3" CONDUIT (TRENCHED) PVC
2-14/5c PEDESTRIAN SIGNAL HEADS P7
1-14/2c PEDESTRIAN PUSH BUTTON PB6
1-#6 AWG
- (X)** 1-2" CONDUIT (BORED) HDPE
2-OPTICOM CABLES PE2, PE4, PE5
1-HYBRID CAMERA CABLE
1-#6 AWG
- (Y)** 1-2" CONDUIT (BORED) HDPE
1-12 STRAND PON DROP CABLE
1-#6 AWG
- (Z)** 1-3" CONDUIT (TRENCHED) PVC
1-14/5c PEDESTRIAN SIGNAL HEAD P7
1-14/2c PEDESTRIAN PUSH BUTTON PB8
1-#6 AWG

PROPOSED ACCESSIBLE PEDESTRIAN PUSHBUTTON



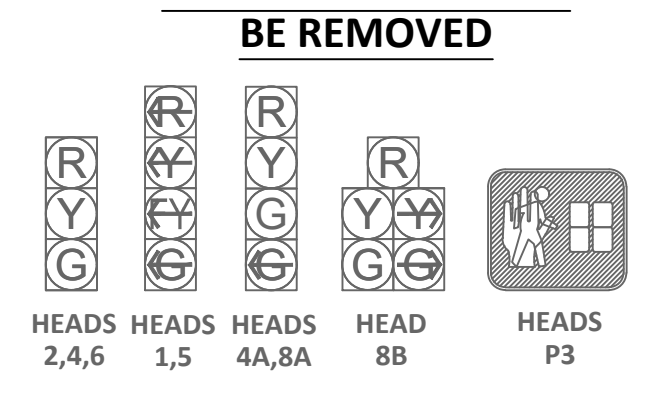
PROPOSED SIGNALS



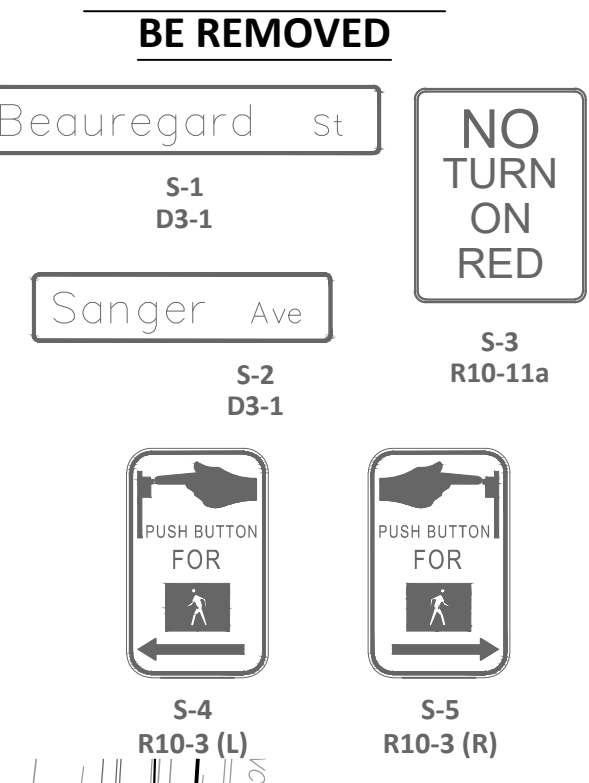
SIGNAL POLE AND CONTROLLER LEGEND:

- CONTROLLER CABINET AND FOUNDATION (CF-3)
- 10' PEDESTAL POLE (PF-2) - 7 TOTAL
- MAST ARM POLE (MP-3) TYPE A
40' MAST ARM
SIGNAL PLACEMENT: 30', 38'
SIGN PLACEMENT: 9', 34'
VIDEO DETECTION PLACEMENT: 24'
EMERGENCY VEHICLE PREEMPTION PLACEMENT: 27'
- MAST ARM POLE (MP-3) TYPE A
49' MAST ARM
SIGNAL PLACEMENT: 20', 30', 40'
SIGN PLACEMENT: 12', 17', 37'
VIDEO DETECTION PLACEMENT: 27'
EMERGENCY VEHICLE PREEMPTION PLACEMENT: 24'
- MAST ARM POLE (MP-3) TYPE A
49' MAST ARM
SIGNAL PLACEMENT: 34', 44', 48'
SIGN PLACEMENT: 24', 31'
VIDEO DETECTION PLACEMENT: 33'
EMERGENCY VEHICLE PREEMPTION PLACEMENT: 40'
- MAST ARM POLE (MP-3) TYPE A
49' MAST ARM
SIGNAL PLACEMENT: 19', 32', 44'
SIGN PLACEMENT: 9', 22', 40'
VIDEO DETECTION PLACEMENT: 38'
EMERGENCY VEHICLE PREEMPTION PLACEMENT: 34'

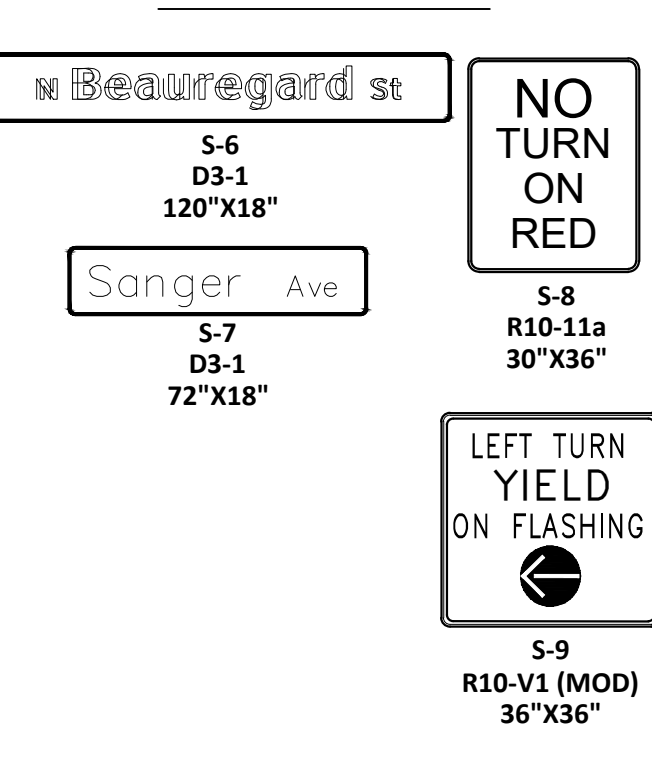
EXISTING SIGNALS TO BE REMOVED



EXISTING SIGNS TO BE REMOVED

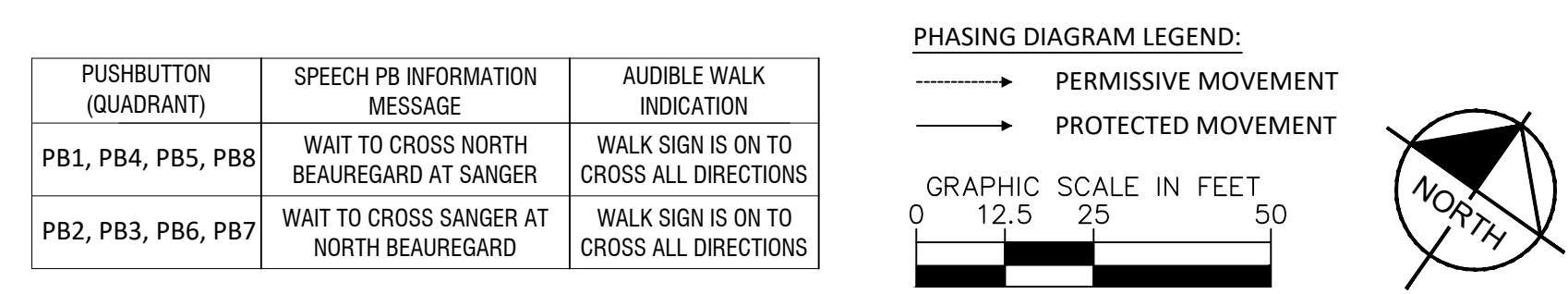
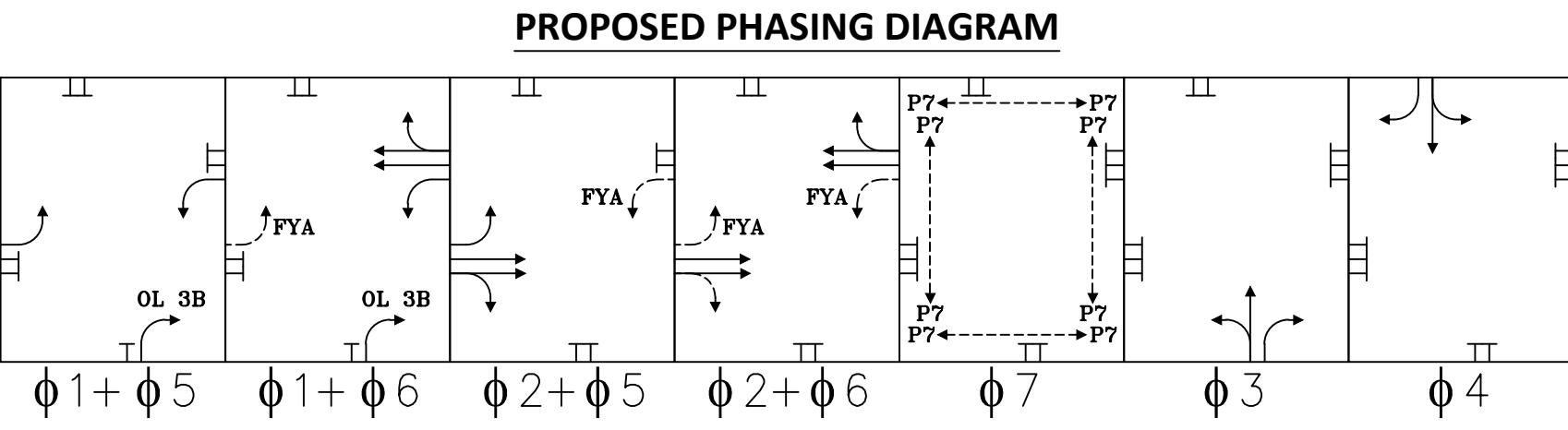
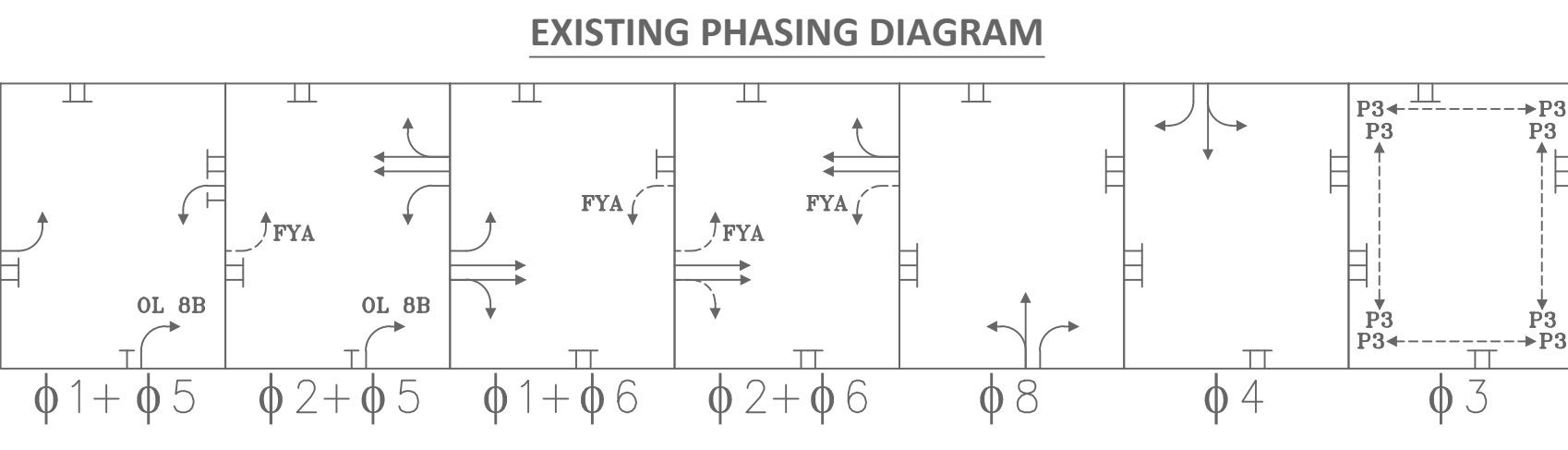
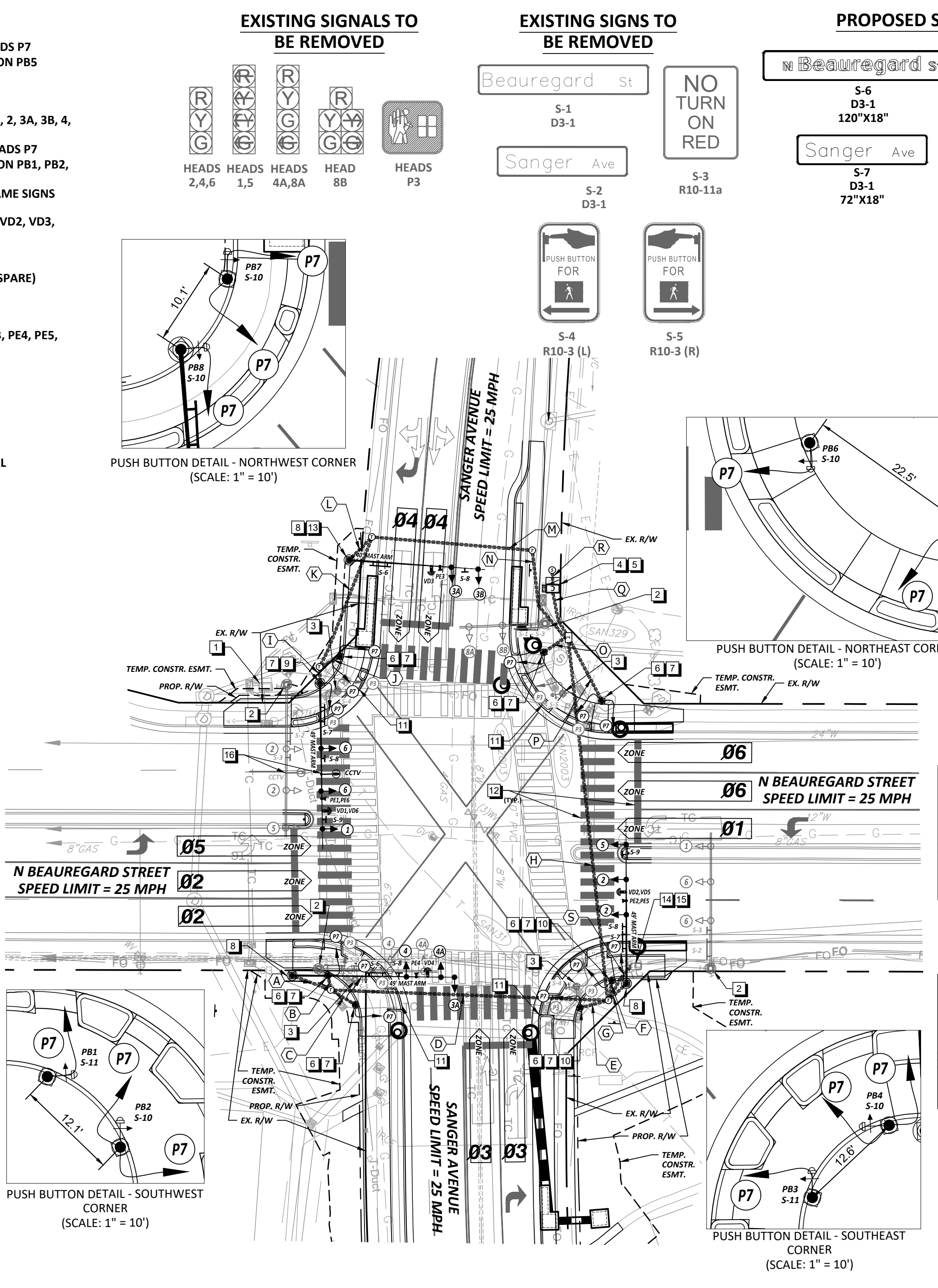


PROPOSED SIGNS

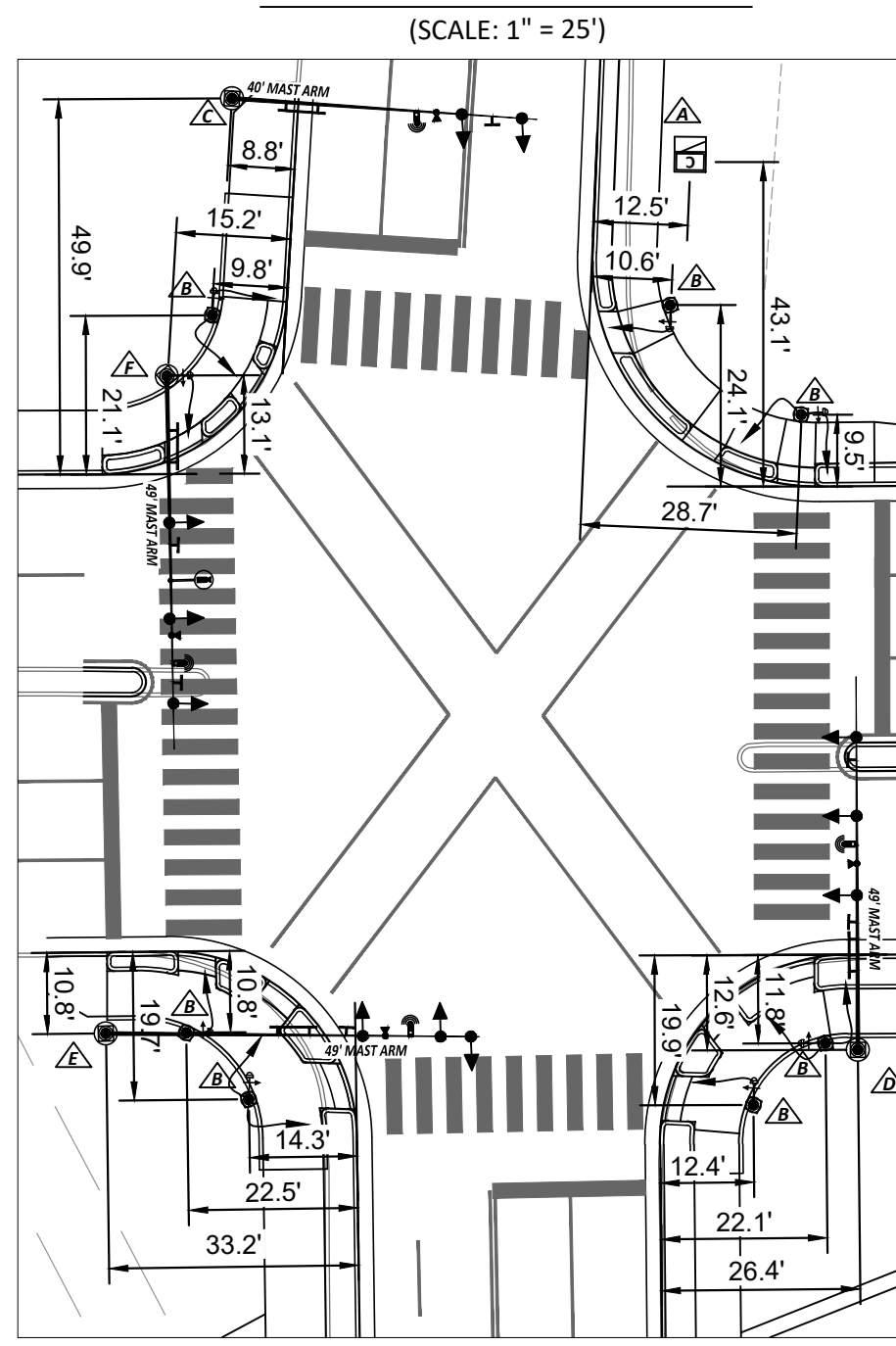


CONSTRUCTION NOTES

- 1 REMOVE EXISTING SIGNAL CABINET.
- 2 REMOVE EXISTING TRAFFIC SIGNAL POLE, SIGNALS, AND SIGNS. REMOVE EXISTING FOUNDATION TO A MINIMUM DEPTH OF 24" BELOW GRADE.
- 3 REMOVE EXISTING PEDESTAL POLE, SIGNALS, PUSHBUTTONS, SIGNS, AND FOUNDATION.
- 4 INSTALL SIGNAL CONTROLLER CABINET AND FOUNDATION. INSTALL HARDENED NETWORKS, ITS EXPRESS, ITS 8042+ ETHERNET SWITCH IN SIGNAL CONTROLLER CABINET. CABINET SHALL BE ORIENTED SO THAT CABINET DOOR OPENS TOWARD SIDEWALK AND SO THAT TECHNICIAN HAS VIEW OF SIGNAL DISPLAYS.
- 5 INSTALL CABINET MOUNTED METER BASE PER VDOT STD. SE-6.
- 6 INSTALL VDOT STD. PF-2 WITH PEDESTRIAN SIGNAL, ACCESSIBLE PEDESTRIAN SIGNAL PUSH BUTTON, AND SIGN.
- 7 CONTRACTOR TO ENSURE POLE FOUNDATION IS FLUSH WITH SIDEWALK GRADE WHEN INSTALLED ON OR ADJACENT TO SIDEWALK. INCORPORATE POLE FOUNDATION INTO CG-2 WHEN INSTALLED ADJACENT TO CURB RAMP.
- 8 INSTALL MAST ARM SIGNAL POLE WITH TRAFFIC SIGNAL HEADS, VIDEO DETECTION, EMERGENCY VEHICLE PREEMPTION, AND SIGNS.
- 9 INSTALL MAST ARM SIGNAL POLE WITH TRAFFIC SIGNAL HEADS, VIDEO DETECTION, EMERGENCY VEHICLE PREEMPTION, PEDESTRIAN SIGNAL, ACCESSIBLE PEDESTRIAN SIGNAL PUSH BUTTON, AND SIGNS.
- 10 CONTRACTOR TO HAND DIG POLE FOUNDATION TO CONFIRM THE LOCATION OF SURROUNDING UNDERGROUND UTILITIES. CONTRACTOR TO NOTIFY THE CITY IF UTILITIES ARE IDENTIFIED IN THE FIELD THAT CONFLICT WITH THE PROPOSED POLE LOCATION.
- 11 DESIGN OF NEW SIDEWALK, CURB RAMPS, AND CURB AND GUTTER ARE SHOWN BEGINNING ON SHEET C-101.
- 12 DESIGN OF NEW PAVEMENT MARKINGS ARE SHOWN BEGINNING ON SHEET C-601.
- 13 CONTRACTOR TO HAND DIG FOUNDATION TO LOCATE UNDERGROUND FIBER OPTIC CABLE. PROTECT CABLE AND CONDUIT DURING SIGNAL POLE FOUNDATION INSTALLATION.
- 14 12 STRAND PON DROP CABLE TO BE REMOVED AND REPLACED WITH NEW CONNECTION TO PROPOSED SIGNAL CABINET IN THE EXISTING SPLICE. SEE SIGNAL DIAGRAM AS PER SHEET C-910A.
- 15 CONTRACTOR TO FIELD ADJUST EXISTING COMMUNICATIONS JUNCTION BOX COLLAR AND LID TO BE SET FLUSH WITHIN THE PROPOSED SIDEWALK.
- 16 REMOVE EXISTING CCTV DROP CABLE. RELOCATE EXISTING CCTV CAMERA AND INSTALL NEW CCTV CAMERA ETHERNET CABLE AT THE NEW MOUNTING POSITION SHOWN ON THE PLAN.



POLE LOCATION DETAIL



COLOR SEQUENCE CHART

PHASE	1	2	3	4	5	6	7	1+5	1+6	2+5	2+6	FLASH
SIGNAL	R/W	R/W	R/W	R/W	R/W	R/W	R/W	R/W	R/W	R/W	R/W	
1	<G							<G	<G	<FY	<FY	<Y
2		G								G	G	Y
3A			G	<G								R
3B	R	<G		G				R	<G	R	<G	R
4				G								R
4A				G								R
5				<G				<G	<FY	<G	<FY	<Y
6					G				G		G	Y
P7							W*					DARK

NOTE: BLANK SPACES IN THIS CHART REPRESENT A "RED" SIGNAL INDICATION. "W" - WALK "FY" - FLASHING YELLOW *WALK INDICATION IS DISPLAYED WHEN PEDESTRIAN CALL IS SERVICED; WALK INDICATION IS DISPLAYED UNTIL IT IS TIMED OUT. OTHERWISE "DON'T WALK" INDICATION IS DISPLAYED.

INITIAL TIMING CHART

PHASE	1	2	3	4	5	6	7	8
MOVEMENT	WB LT N BEAUREGARD	EB N BEAUREGARD	NB SANGER	SB SANGER	EB LT N BEAUREGARD	WB N BEAUREGARD	PEDESTRIAN	
PHASE ON	X	X	X	X	X	X	X	
PHASE OFF								X
MIN GR	6.0	14.0	10.0	0.0	6.0	14.0	0.0	
PASSAGE	2.0	0.0	2.5	0.0	2.5	0.0	0.0	
YELLOW	3.7	3.7	3.3	3.7	3.7	3.7	3.0	
RED	2.3	2.3	2.9	2.9	2.3	2.3	0.0	
MAX 1	26.0	60.0	30.0	28.0	0.0	60.0	0.0	
MAX 2	39.0	44.0	25.0	19.0	0.0	71.0	0.0	
MIN GAP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
TIME BEFORE REDUCTION	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
TIME TO REDUCE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
PED WALK	0.0	0.0	0.0	0.0	0.0	0.0	7.0	
PED CLEARANCE	0.0	0.0	0.0	0.0	0.0	0.0	25.0	
MODE	NON-LOCK	MAX RECALL	NON-LOCK	NON-LOCK	NON-LOCK	MAX RECALL	NON-LOCK	

NOTE: TIMINGS SHOWN ARE EXISTING AND OBTAINED FROM THE CITY OF ALEXANDRIA, EXCEPT VALUES IN BOLD, WHICH WERE CHANGED OR ADDED AS PART OF THIS PROJECT.

LEGEND

- Controller Cabinet
- Signal Junction Box (VDOT Std. JB-S2)
- Signal Junction Box (VDOT Std. JB-S3)
- Comm. Junction Box (VDOT Std. JB-S2)
- Comm. Junction Box (VDOT Std. JB-S3)
- Service Junction Box (VDOT Std. JB-S2)
- MAST Arm Pole & Foundation
- Pedestrian Pedestal Pole & Foundation
- Carlyle Lighting Pole & Foundation
- Service Meter
- Battery Backup (UPS)
- Vehicle Signal Head (LED)
- Pedestrian Push Button
- Video Detection Camera
- Emergency Vehicle Preemption
- CCTV Vehicle Camera
- Overhead Light (LED)
- Conduit
- Video Detection Zone (6' x 40')

Plotted By: Phillips, Mark Sheet Set: West End Transitway - Phase 1 Layout: TRAFFIC SIGNAL PLANS - BEAUREGARD ST AT SANGER AVE July 12, 2024 06:11:17am K:\VVA_Traffic\110104122_West End Transitway Design\CADD\PlanSheets\SIGNAL_PLANS_SANGER_FILLMORE.dwg



CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

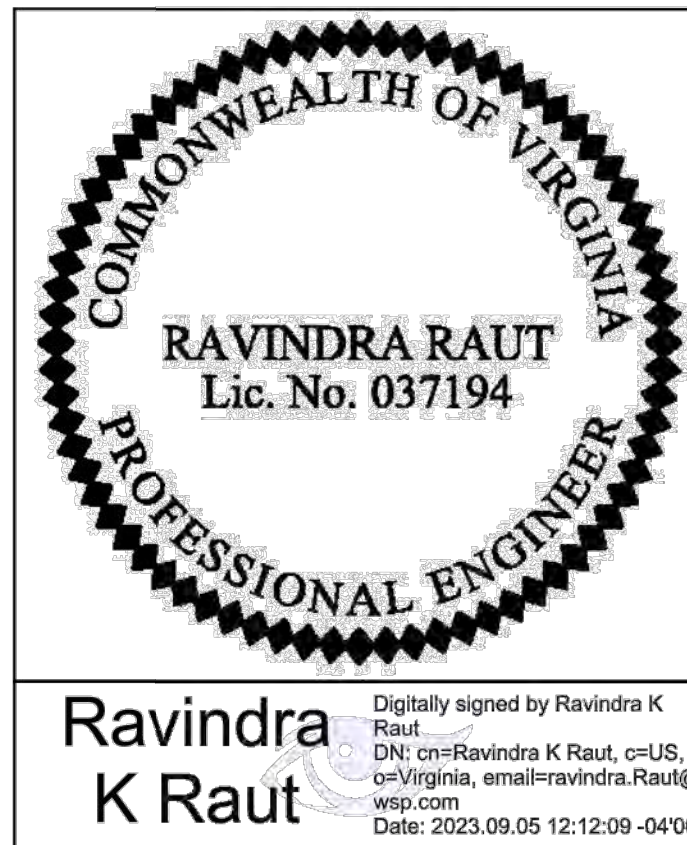
REVISIONS	DESCRIPTION
DATE	BY

WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

TRAFFIC SIGNAL PLANS - BEAUREGARD ST AT SANGER AVE

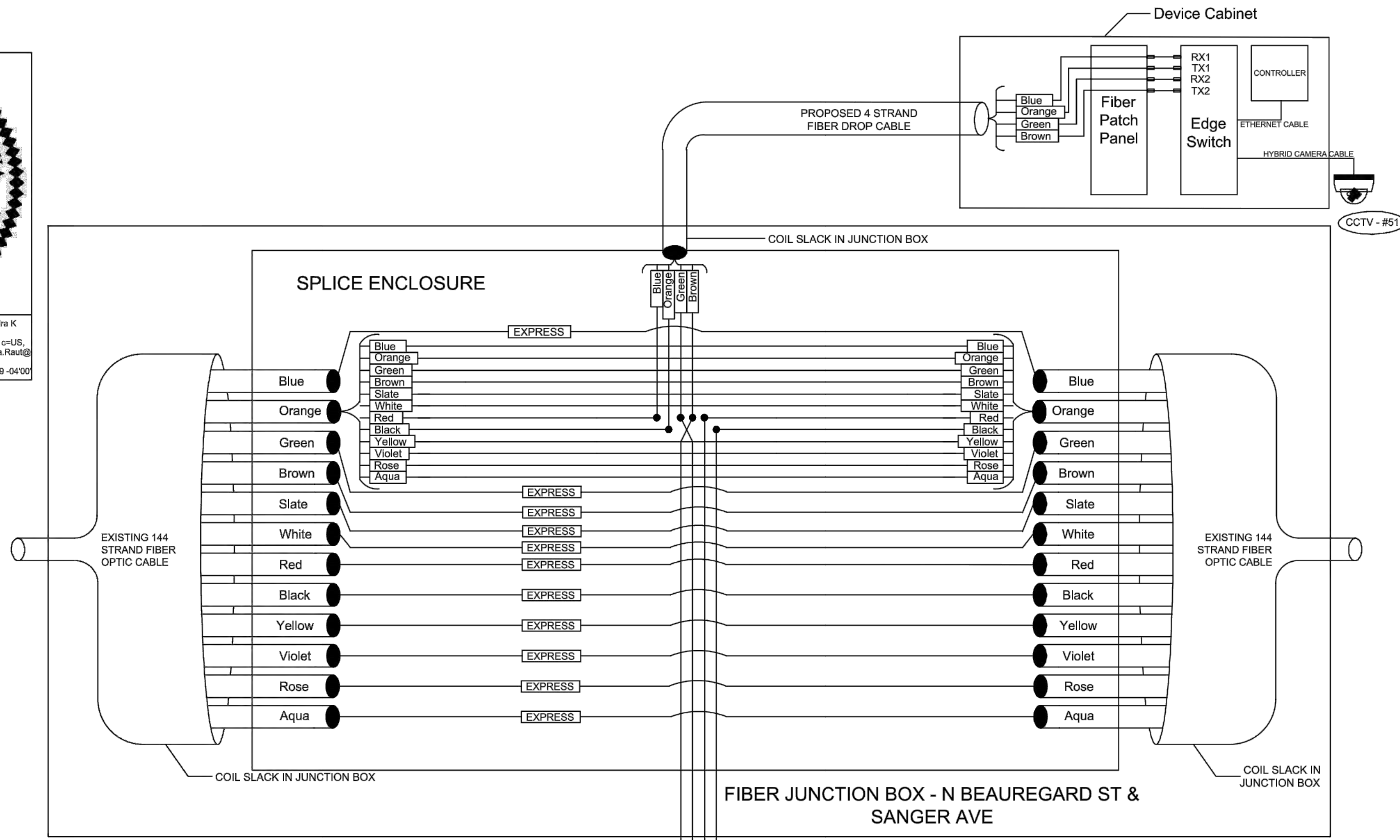
SHEET
C-910
SCALE 1" = 25'

Plotted By: LdShier, Richard Sheet Set: West End Transitway - Phase 1 Layout: SPLICING DIAGRAM BEAUREGARD ST AT SANGER AVE July 11, 2024 06:37:17pm K:\NVA_Transit\110104122_West_End_Transitway_Design\CADD\PlanSheets\COMMUNICATIONS_PLANS.dwg

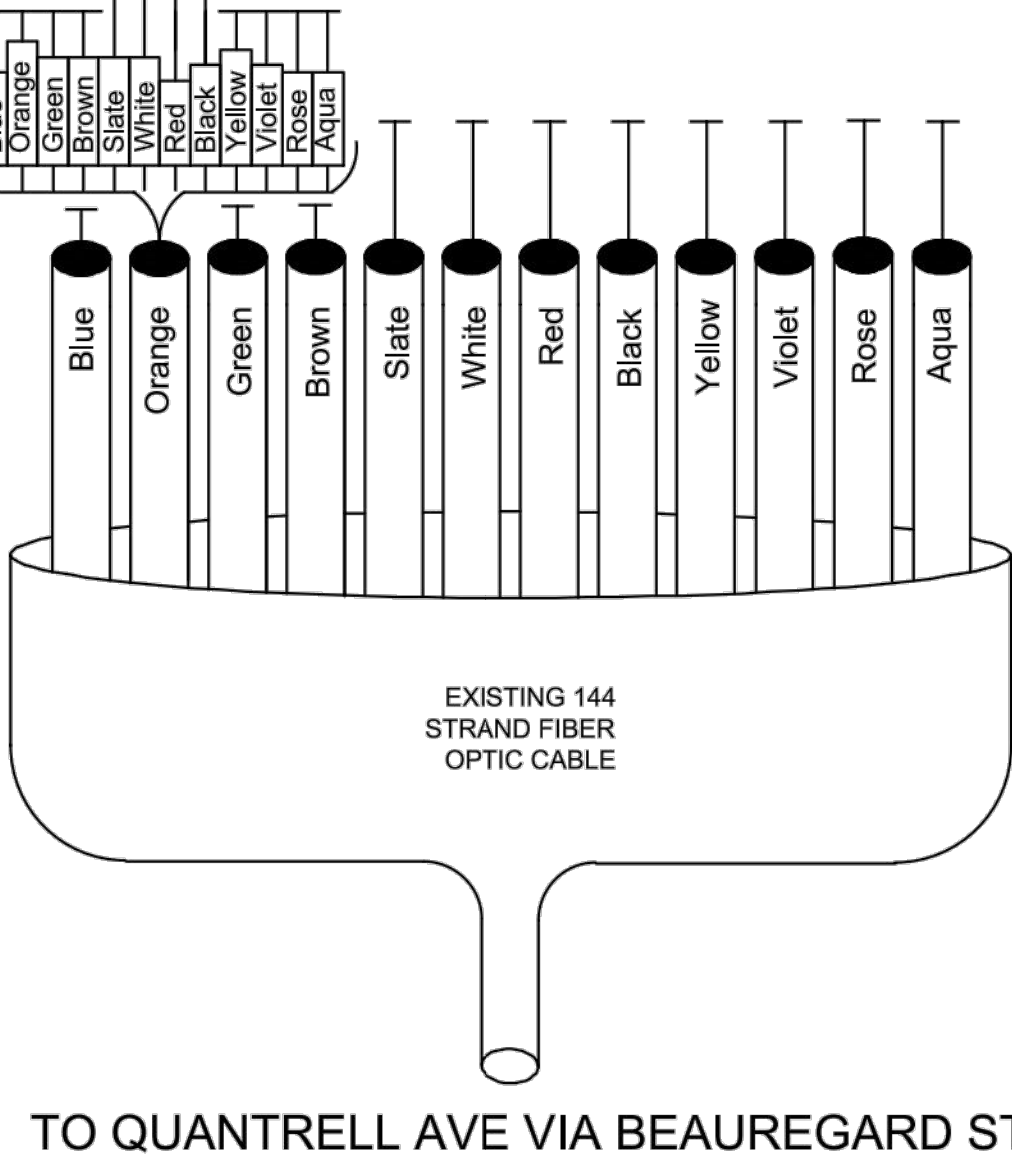


Ravindra K Raut
 Digitally signed by Ravindra K Raut
 DN: cn=Ravindra K Raut, o=US, ou=Virginia, email=ravindra.Raut@wsp.com
 Date: 2023.09.05 12:12:09 -04'00'

TO SANGER & TRENT CT
 TO VAN DORN ST VIA SANGER AVE



TO SEMINARY RD VIA BEAUREGARD ST AND MARK CENTER AVE



LEGEND

- Fibers fused
- SM Fiber Strand
- Fiber Tube
- Fiber Cap and Seal

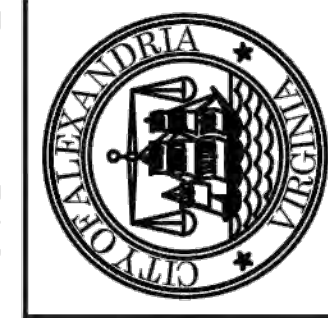
NOTE:
 REFER SHEET 7-44 FOR PASSIVE NETWORK SPLICE
 DIAGRAM AT N BEAUREGRD ST & SANGER AVE



CONSTRUCTION NOTES

- 1 SPLICE DIAGRAM SHOWN REFERENCED FROM ITS PHASE III PLANS FROM THE CITY.
- 2 CONTRACTOR TO CONFIRM THAT THE CITY OF ALEXANDRIA ITS PHASE II-IV PLANS HAVE BEEN BUILT AND THAT SPLICE DIAGRAM SHOWN IN THIS SHEET MATCHES WITH EXISTING CONDITIONS. CONTRACTOR TO CONFIRM FIBER CONNECTIONS WITH THE CITY PRIOR TO THE INSTALLATION.

FINAL DESIGN SUBMITTAL



CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

REVISIONS	DATE	DESCRIPTION

ITS INTEGRATION PHASE IV CITY OF ALEXANDRIA	
SPlicing DIAGRAM N BEAUREGARD ST AND SANGER AVE CCTV #51	ALEXANDRIA PROJECT NO.: 1905014 DATE OF PLAN ISSUANCE: N/A CONSULTANT PROJECT ID.: N/A DESIGNED BY: PY DATE: 05/19/23 DRAWN BY: RR DATE: 05/19/23 CHECKED BY: RR DATE: 05/19/23 APPROVED BY: XX DATE: 05/19/23
SHEET 5-5 SCALE N.T.S.	CITY OF ALEXANDRIA, VIRGINIA DEPARTMENT OF PROJECT IMPLEMENTATION 301 KING STREET ALEXANDRIA, VIRGINIA 22313

WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

TRAFFIC SIGNAL PLANS --
 SPlicing DIAGRAM
 BEAUREGARD ST AT
 SANGER AVE

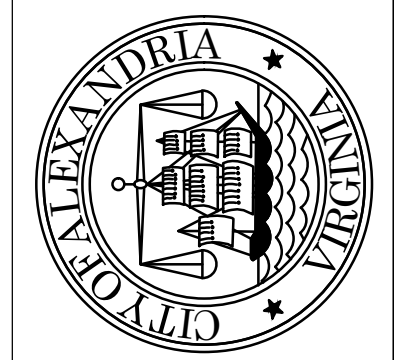
SHEET
 C-910A
 SCALE N/A

90% DESIGN PHASE

CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

REVISIONS	DATE	DESCRIPTION

ALEXANDRIA PROJECT NO.: 110104122 DATE OF PLAN ISSUANCE: N/A CONSULTANT PROJECT ID.: N/A DESIGNED BY: PY DATE: 05/19/23 DRAWN BY: RR DATE: 05/19/23 CHECKED BY: RR DATE: 05/19/23 APPROVED BY: XX DATE: 05/19/23	ALEXANDRIA PROJECT NO.: 110104122 DATE OF PLAN ISSUANCE: N/A CONSULTANT PROJECT ID.: N/A DESIGNED BY: PY DATE: 05/19/23 DRAWN BY: RR DATE: 05/19/23 CHECKED BY: RR DATE: 05/19/23 APPROVED BY: XX DATE: 05/19/23
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Plotted By: Young, Riley Sheet Set: West End Transitway - Phase 1 Layout: SIGNAL PLANS - MARK CENTER DR AT MARK CENTER AVE December 01, 2023 11:22:02am K:\NVA_Transit\110104122_West_End_Transitway_Design\CADD\PlanSheets\SIGNAL_PLANS_BEAUREGARD.dwg

CONDUIT & CABLE LEGEND

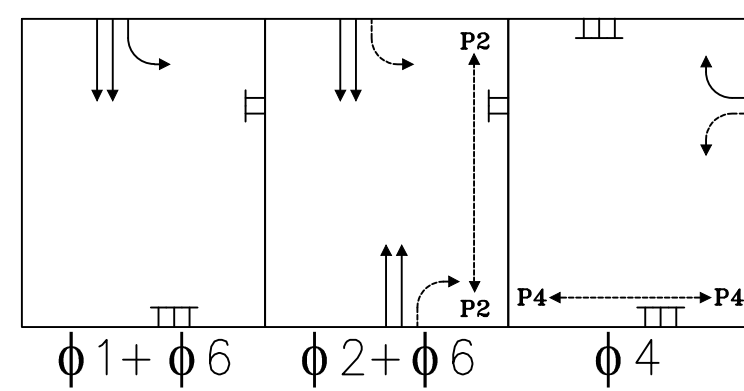
- (A)** EXISTING CONDUIT(S)
2-14/7c TRAFFIC SIGNAL HEADS 1, 6
1-14/5c PEDESTRIAN SIGNAL HEAD P4
1-14/2c PEDESTRIAN PUSH BUTTON PB4
1-14/2c ILLUMINATED STREET NAME SIGN S-2
- (B)** EXISTING CONDUIT(S)
2-14/7c TRAFFIC SIGNAL HEADS 1, 6
1-14/5c PEDESTRIAN SIGNAL HEAD P4
1-14/2c PEDESTRIAN PUSH BUTTON PB4
1-14/2c ILLUMINATED STREET NAME SIGN S-2
- (C)** EXISTING CONDUIT(S)
1-14/7c TRAFFIC SIGNAL HEADS 4
1-14/2c ILLUMINATED STREET NAME SIGN S-1
- (D)** EXISTING CONDUIT(S)
3-14/7c TRAFFIC SIGNAL HEADS 1, 4, 6
1-14/5c PEDESTRIAN SIGNAL HEAD P4
1-14/2c PEDESTRIAN PUSH BUTTON PB4
2-14/2c ILLUMINATED STREET NAME SIGNS S-1, S-2
- (E)** EXISTING CONDUIT(S)
1-14/5c PEDESTRIAN SIGNAL HEAD P4
1-14/2c PEDESTRIAN PUSH BUTTON PB4
- (F)** EXISTING CONDUIT(S)
1-14/5c PEDESTRIAN SIGNAL HEAD P2
1-14/2c PEDESTRIAN PUSH BUTTON PB2
- (G)** EXISTING CONDUIT(S)
2-14/5c PEDESTRIAN SIGNAL HEADS P2, P4
2-14/2c PEDESTRIAN PUSH BUTTONS PB2, PB4
- (H)** EXISTING CONDUIT(S)
1-14/5c PEDESTRIAN SIGNAL HEAD P2
1-14/2c PEDESTRIAN PUSH BUTTON PB2
- (I)** EXISTING CONDUIT(S)
3-14/5c PEDESTRIAN SIGNAL HEADS P2, P4
3-14/2c PEDESTRIAN PUSH BUTTONS PB2, PB4
- (J)** EXISTING CONDUIT(S)
1-14/7c TRAFFIC SIGNAL HEADS 2
1-14/2c ILLUMINATED STREET NAME SIGN S-2
- (K)** EXISTING CONDUIT(S)
6-14/7c TRAFFIC SIGNAL HEADS 1, 2, 4, 6
4-14/5c PEDESTRIAN SIGNAL HEADS P2, P4
4-14/2c PEDESTRIAN PUSH BUTTONS PB2, PB4
3-14/2c ILLUMINATED STREET NAME SIGNS S-1, S-2

LEGEND:
 EXISTING CABLE TO REMAIN
 EXISTING CABLE TO BE REMOVED
 PROPOSED CABLE TO BE INSTALLED

NOTES:

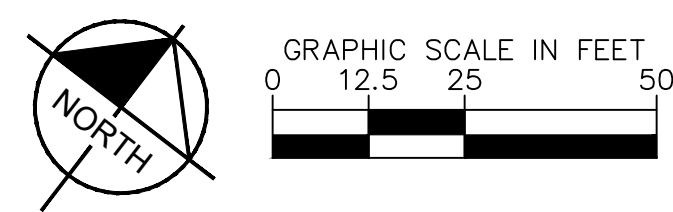
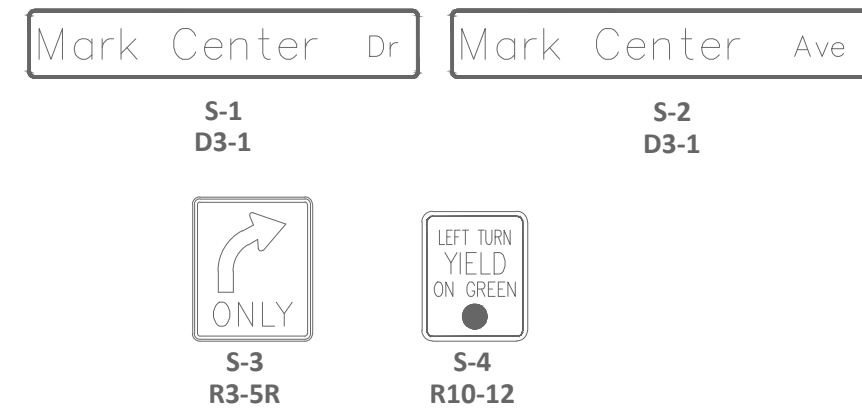
- EXISTING JUNCTION BOXES AND CONDUITS ARE BASED ON AVAILABLE SURVEY DATA AND INFORMATION OBTAINED DURING SITE VISITS. THESE ITEMS ARE SHOWN AT THEIR APPROXIMATE LOCATION BASED ON THE AVAILABLE INFORMATION.
- ACTUAL SIZE, NUMBER, AND LOCATION OF CONDUITS MAY VARY. THE CONTRACTOR SHALL NOTIFY THE CITY OF ANY CONFLICTS BETWEEN THE PLANS AND THE FIELD CONDITIONS AND OBTAIN WRITTEN AUTHORIZATION FROM THE CITY TO DEVIATE FROM THE PLANS TO PROVIDE THE PROPOSED SIGNAL CONFIGURATION SHOWN IN THESE PLANS.
- CONTRACTOR SHALL REMOVE UNUSED SIGNAL CABLE FROM EXISTING CONDUITS IF NO LONGER BEING USED TO OPERATE THE TRAFFIC SIGNAL.
- THESE PLANS ASSUME THAT APPROPRIATE CONDUIT AND JUNCTION BOX GROUNDING IS IN PLACE.

EXISTING & PROPOSED PHASING DIAGRAM



PHASING DIAGRAM LEGEND:
 PERMISSIVE MOVEMENT
 PROTECTED MOVEMENT

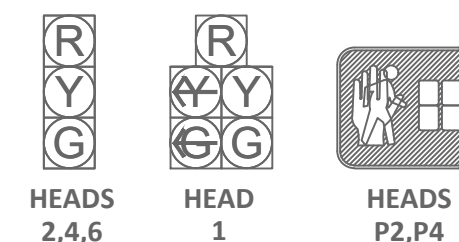
EXISTING SIGNS TO REMAIN



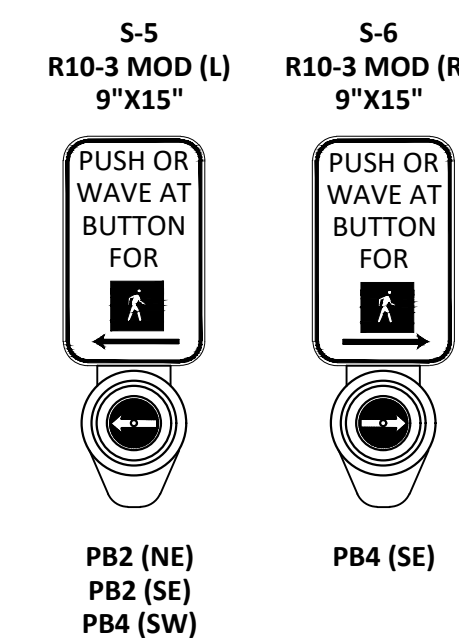
CONSTRUCTION NOTES

- REMOVE EXISTING PUSHBUTTON.
- EXISTING SIGNAL CABINET TO REMAIN.
- INSTALL ACCESSIBLE PEDESTRIAN SIGNAL PUSH BUTTON AND SIGN ON EXISTING SIGNAL POLE.
- INSTALL ACCESSIBLE PEDESTRIAN SIGNAL PUSH BUTTON AND SIGN ON A 90-DEGREE, 17-INCH PUSHBUTTON EXTENDER MOUNTED TO THE EXISTING SIGNAL POLE.
- NEW CROSSWALK, SIDEWALK RAMPS, AND PEDESTRIAN SIGNALS TO BE INSTALLED BY OTHERS ACROSS MARK CENTER DRIVE (NOT SHOWN).

EXISTING SIGNALS TO REMAIN



PROPOSED ACCESSIBLE PEDESTRIAN PUSHBUTTON



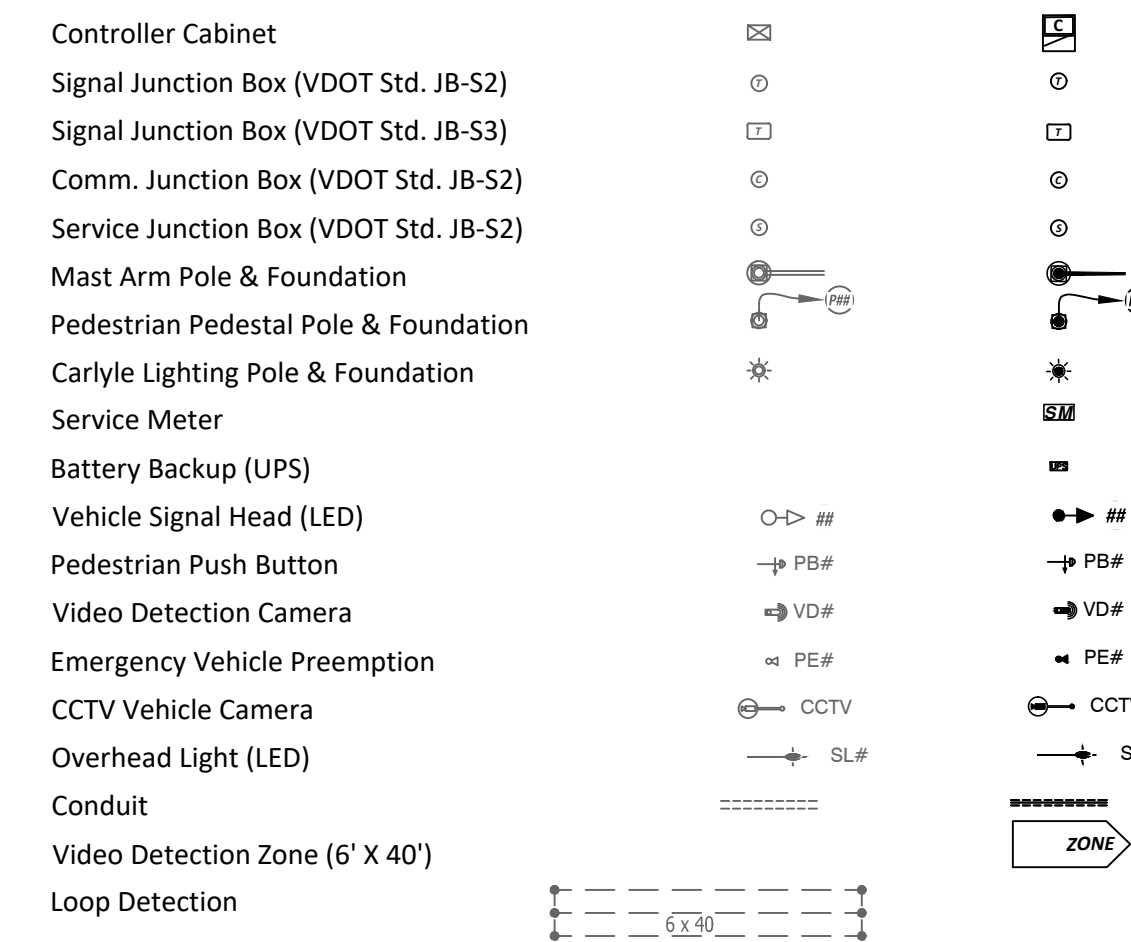
PUSHBUTTON (QUADRANT)	SPEECH PB INFORMATION MESSAGE	AUDIBLE WALK INDICATION
PB4 (SW) PB4 (SE)	WAIT TO CROSS MARK CENTER DRIVE AT MARK CENTER AVENUE.	PERCUSSIVE TONE
PB2 (SE) PB2 (NE)	WAIT TO CROSS MARK CENTER AVENUE AT MARK CENTER DRIVE.	PERCUSSIVE TONE

INITIAL TIMING CHART

PHASE	1	2	3	4	5	6	7	8
MOVEMENT	SB LT CENTER DR	NB MARK CENTER DR		WB MARK CENTER AVE		SB MARK CENTER DR		
PHASE ON	X	X		X		X		
PHASE OFF			X		X		X	X
PHASE TIMINGS								
MIN GR	7.0	10.0		10.0		10.0		
PASSAGE	20.0	20.0		20.0		20.0		
YELLOW	3.7	3.7		3.0		3.7		
RED	2.1	2.1		3.9		2.1		
MAX 1	18.0	38.0		38.0		38.0		
MAX 2	0.0	0.0		0.0		0.0		
MIN GAP	0.0	0.0		0.0		0.0		
TIME BEFORE REDUCTION	0.0	0.0		0.0		0.0		
TIME TO REDUCE	0.0	0.0		0.0		0.0		
PED WALK	0.0	4.0		4.0		0.0		
PED CLEARANCE	0.0	13.0		17.0		0.0		
MODE	NON-LOCK	MAX RECALL		NON-LOCK		MAX RECALL		

NOTE: TIMINGS SHOWN ARE EXISTING AND OBTAINED FROM THE CITY OF ALEXANDRIA, EXCEPT VALUES IN BOLD, WHICH WERE CHANGED OR ADDED AS PART OF THIS PROJECT.

LEGEND

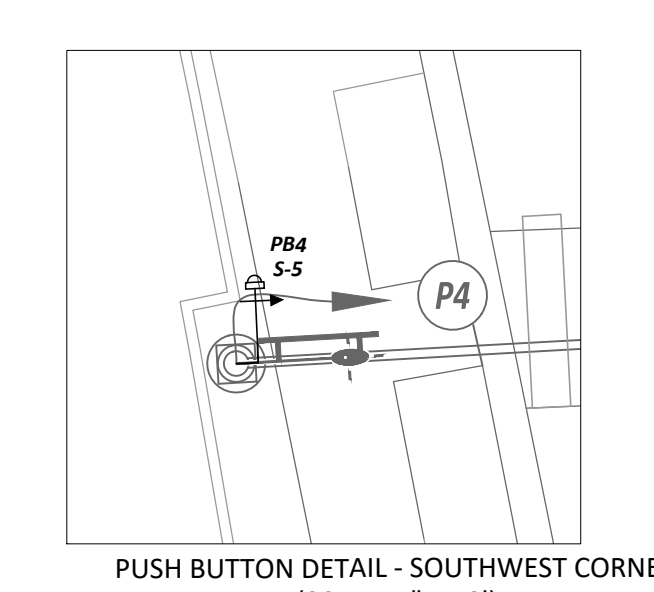
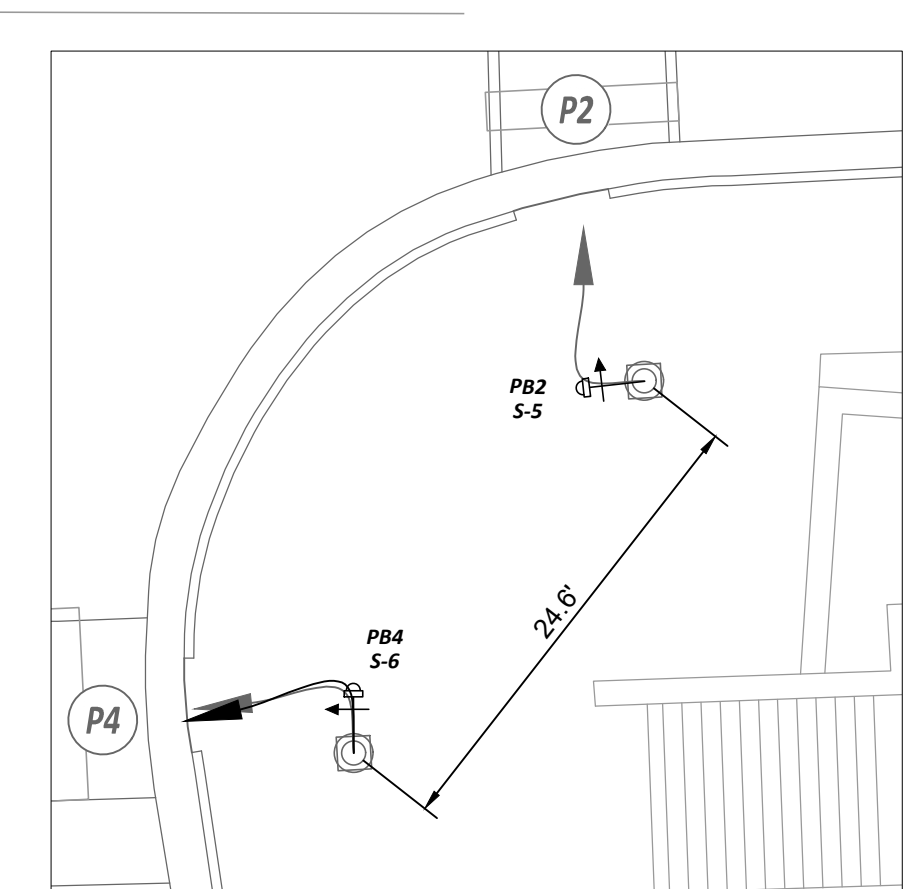
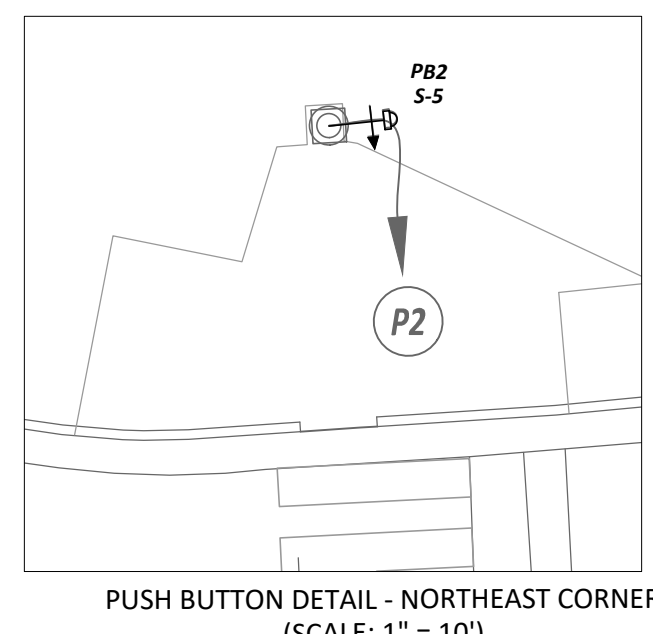
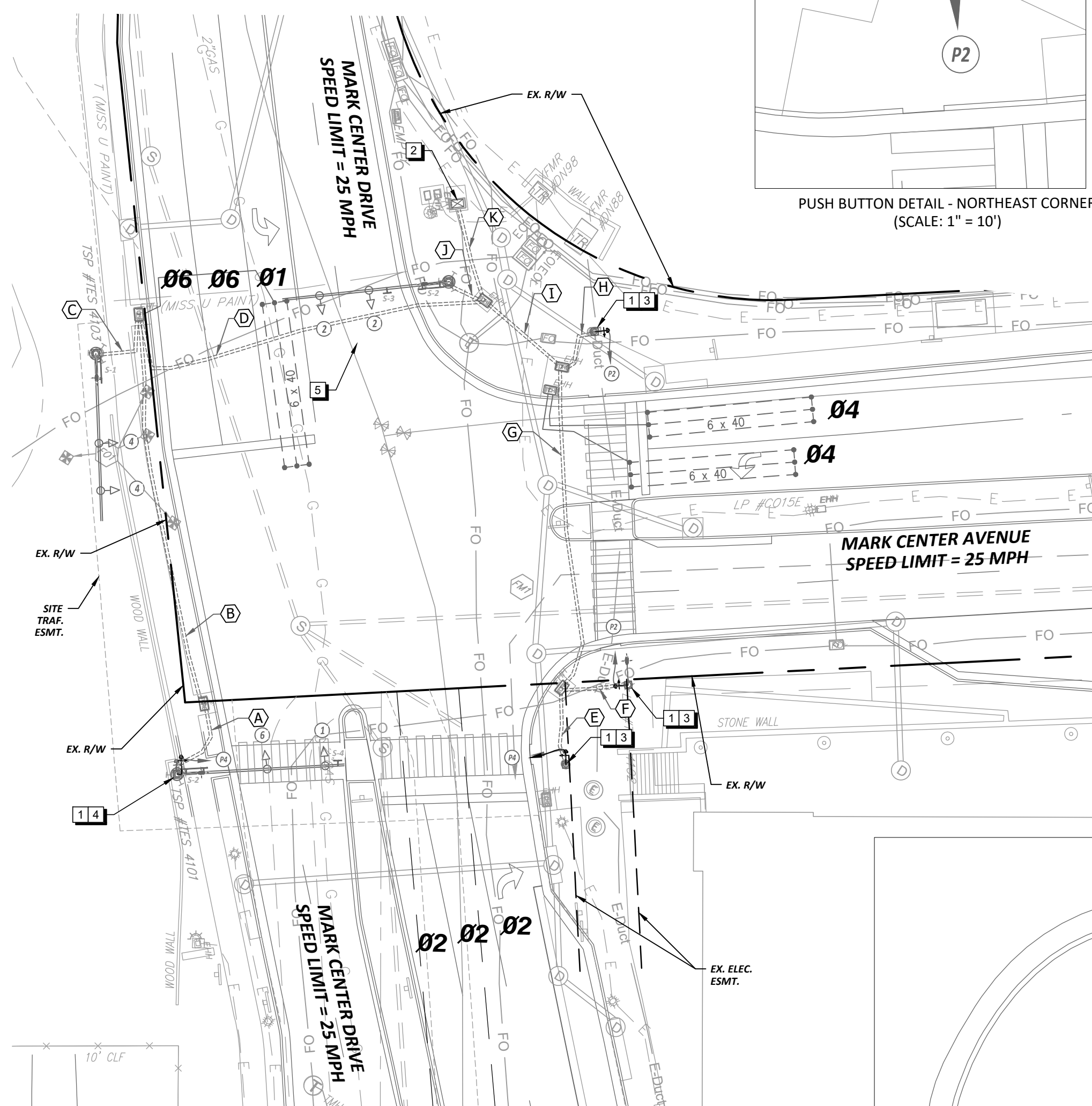


COLOR SEQUENCE CHART

PHASE	1	2	4	6	1+6	2+5	2+6	FLASH
SIGNAL	R/W	R/W	R/W	R/W	R/W	R/W	R/W	
1	R				G			Y
2		G				G		Y
4			G					R
6				G	G			Y
P2		W*			W*	W*		DARK
P4			W*					DARK

NOTE: BLANK SPACES IN THIS CHART REPRESENT A "RED" SIGNAL INDICATION.

*WALK INDICATION IS DISPLAYED WHEN PEDESTRIAN CALL IS SERVICED; WALK INDICATION IS DISPLAYED UNTIL IT IS TIMED OUT. OTHERWISE "DON'T WALK" INDICATION IS DISPLAYED.



90% DESIGN PHASE



CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

REVISIONS	DESCRIPTION
DATE	BY

ALEXANDRIA PROJECT NO.: 110104122
 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: LT DATE: 9/25/23
 DRAWN BY: LT DATE: 9/25/23
 CHECKED BY: DCM DATE: 9/25/23
 APPROVED BY: DATE:

WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

TRAFFIC SIGNAL PLANS -
 MARK CENTER DR AT
 MARK CENTER AVE

SHEET
 C-912
 SCALE 1" = 25'

Potted By: Young, Riley Sheet Set: West End Transitway - Phase 1 Layout: SIGNAL PLANS - SEMINARY RD AT MARK CENTER AVE December 01, 2023 11:34:45am K:\NVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\SIGNAL_PLANS_BEAUREGARD.dwg

CONDUIT & CABLE LEGEND

- (A)** EXISTING CONDUIT(S)
 3-14/7c TRAFFIC SIGNAL HEADS 3, 3A, 3B
 1-14/5c PEDESTRIAN SIGNAL HEAD P3
 1-14/2c PEDESTRIAN PUSH BUTTON PB3
 1-14/2c ILLUMINATED STREET NAME SIGN S-1
 1-VIDEO DETECTOR CABLE VD3
- (B)** EXISTING CONDUIT(S)
 3-14/7c TRAFFIC SIGNAL HEADS 3, 3A, 3B
 1-14/5c PEDESTRIAN SIGNAL HEAD P3
 1-14/2c PEDESTRIAN PUSH BUTTON PB3
 1-14/2c ILLUMINATED STREET NAME SIGN S-1
 1-VIDEO DETECTOR CABLE VD3
- (C)** EXISTING CONDUIT(S)
 1-14/5c PEDESTRIAN SIGNAL HEAD P3
 1-14/2c PEDESTRIAN PUSH BUTTON PB3
- (D)** EXISTING CONDUIT(S)
 2-14/7c TRAFFIC SIGNAL HEADS 2, 5
 1-14/5c PEDESTRIAN SIGNAL HEAD P2
 1-14/2c PEDESTRIAN PUSH BUTTON PB2
 1-14/2c ILLUMINATED STREET NAME SIGN S-2
 1-RADAR DETECTOR CABLE RD1
- (E)** EXISTING CONDUIT(S)
 5-14/7c TRAFFIC SIGNAL HEADS 2, 3, 3A, 3B, 5
 3-14/5c PEDESTRIAN SIGNAL HEADS P2, P3
 2-14/2c PEDESTRIAN PUSH BUTTONS PB3
 1-14/2c PEDESTRIAN PUSH BUTTON PB2
 2-14/2c ILLUMINATED STREET NAME SIGNS S-1, S-2
 1-VIDEO DETECTOR CABLE VD3
 1-RADAR DETECTOR CABLE RD1
- (F)** EXISTING CONDUIT(S)
 3-14/7c TRAFFIC SIGNAL HEADS 4, 4A, 4B,
 1-14/5c PEDESTRIAN SIGNAL HEAD P2
 1-14/5c PEDESTRIAN SIGNAL HEAD P4
 1-14/2c PEDESTRIAN PUSH BUTTON PB2
 1-14/2c ILLUMINATED STREET NAME SIGN S-1
 1-VIDEO DETECTOR CABLE VD4
- (G)** EXISTING CONDUIT(S)
 8-14/7c TRAFFIC SIGNAL HEADS 2, 3, 3A,
 3B, 4, 4A, 4B, 5
 4-14/5c PEDESTRIAN SIGNAL HEADS P2, P3
 1-14/5c PEDESTRIAN SIGNAL HEAD P4
 2-14/2c PEDESTRIAN PUSH BUTTONS PB3
 2-14/2c PEDESTRIAN PUSH BUTTONS PB2
 3-14/2c ILLUMINATED STREET NAME SIGNS S-1, S-2
 2-VIDEO DETECTOR CABLES VD3, VD4
 1-RADAR DETECTOR CABLE RD1
- (H)** EXISTING CONDUIT(S)
 2-14/7c TRAFFIC SIGNAL HEADS 1, 6
 1-14/2c ILLUMINATED STREET NAME SIGN S-2
 1-RADAR DETECTOR CABLE RD5
- (I)** EXISTING CONDUIT(S)
 10-14/7c TRAFFIC SIGNAL HEADS 1, 2, 3,
 3A, 3B, 4, 4A, 4B, 5, 6
 4-14/5c PEDESTRIAN SIGNAL HEADS P2, P3
 1-14/5c PEDESTRIAN SIGNAL HEAD P4
 2-14/2c PEDESTRIAN PUSH BUTTONS PB3
 2-14/2c PEDESTRIAN PUSH BUTTONS PB2
 4-14/2c ILLUMINATED STREET NAME SIGNS S-1, S-2
 2-VIDEO DETECTOR CABLES VD3, VD4
 2-RADAR DETECTOR CABLES RD1, RD5

LEGEND:
 EXISTING CABLE TO REMAIN
 EXISTING CABLE TO BE REMOVED
 PROPOSED CABLE TO BE INSTALLED

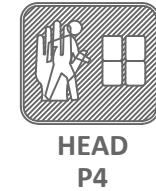
NOTES:

- EXISTING JUNCTION BOXES AND CONDUITS ARE BASED ON AVAILABLE SURVEY DATA AND INFORMATION OBTAINED DURING SITE VISITS. THESE ITEMS ARE SHOWN AT THEIR APPROXIMATE LOCATION BASED ON THE AVAILABLE INFORMATION.
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- CONTRACTOR SHALL REMOVE UNUSED SIGNAL CABLE FROM EXISTING CONDUITS IF NO LONGER BEING USED TO OPERATE THE TRAFFIC SIGNAL.
- THESE PLANS ASSUME THAT APPROPRIATE CONDUIT AND JUNCTION BOX GROUNDING IS IN PLACE.

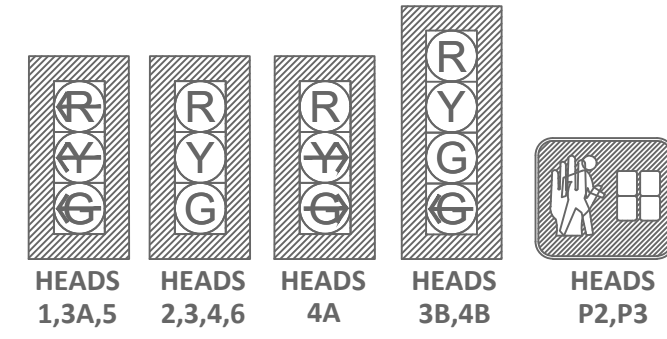
EXISTING SIGNS TO REMAIN



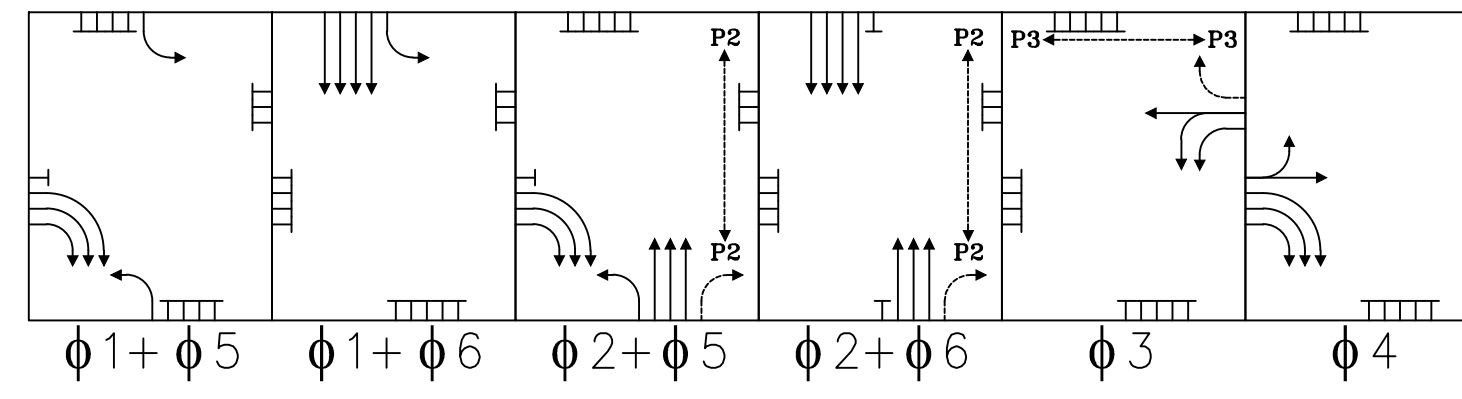
EXISTING SIGNALS TO BE REMOVED



EXISTING SIGNALS TO REMAIN



EXISTING & PROPOSED PHASING DIAGRAM

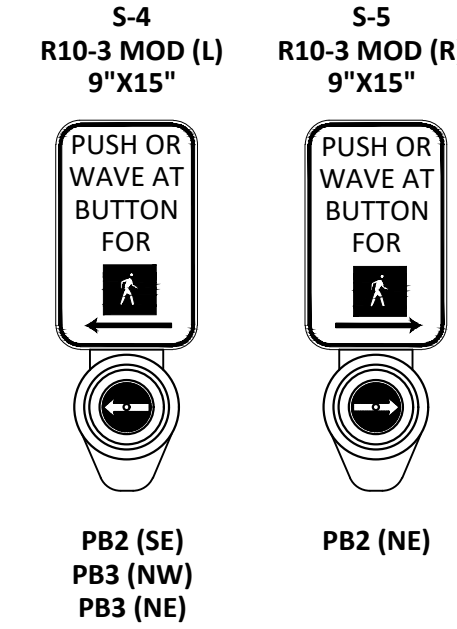


PHASING DIAGRAM LEGEND:
 PERMISSIVE MOVEMENT
 PROTECTED MOVEMENT

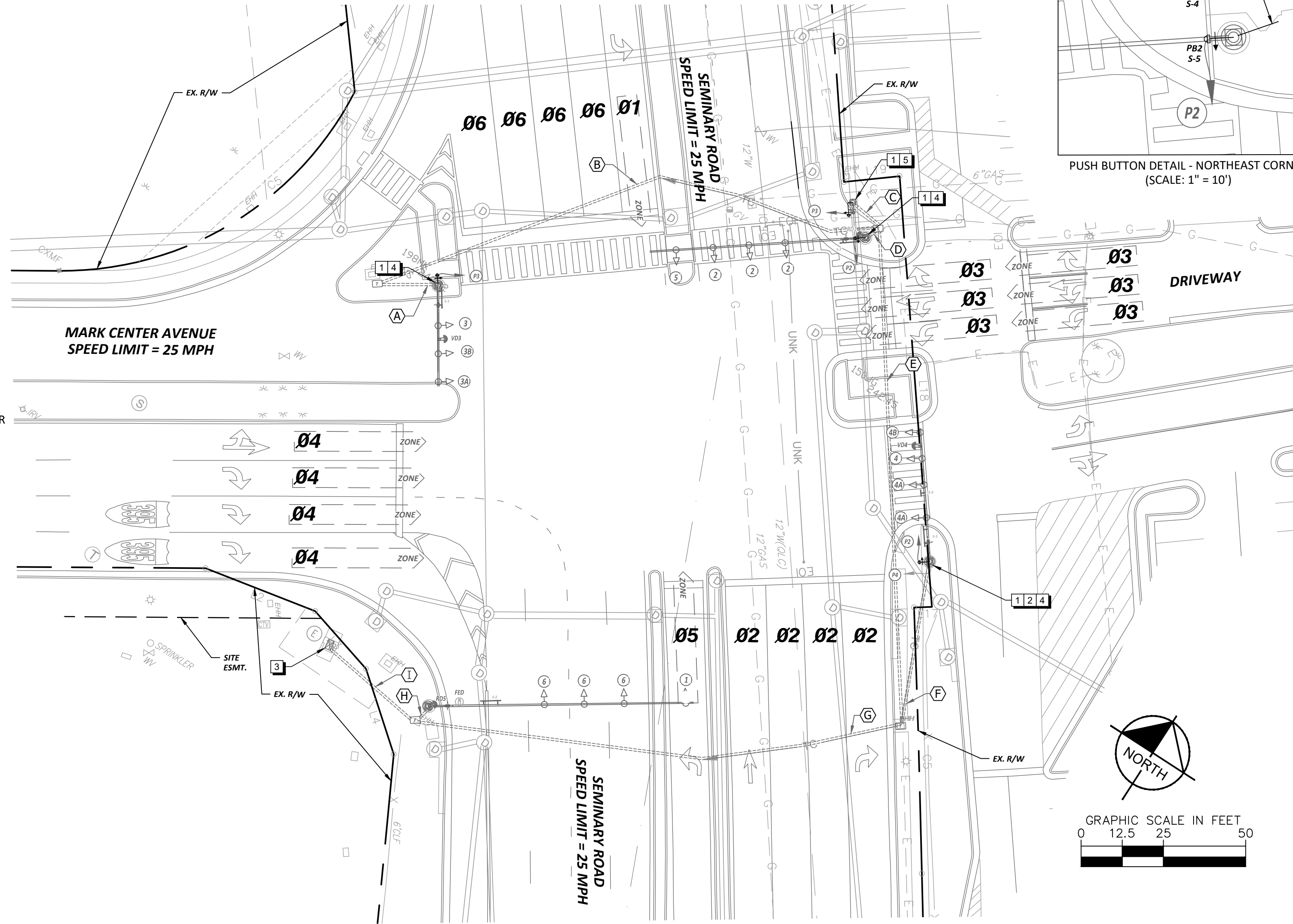
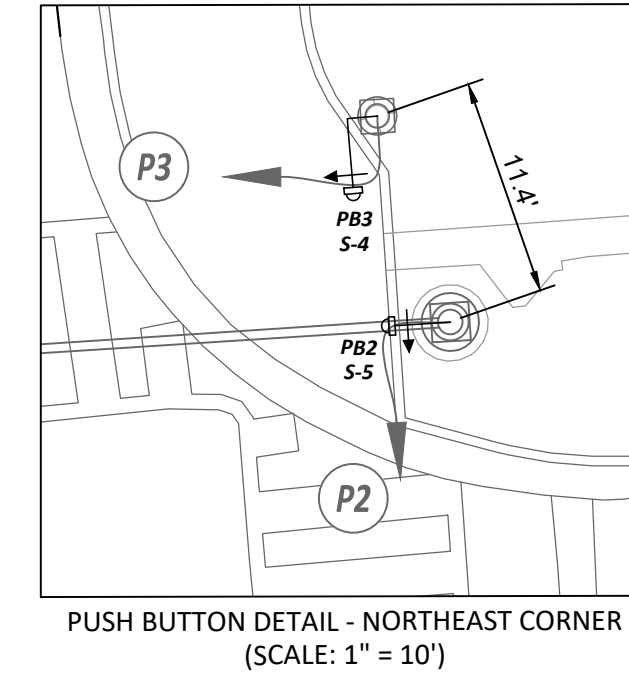
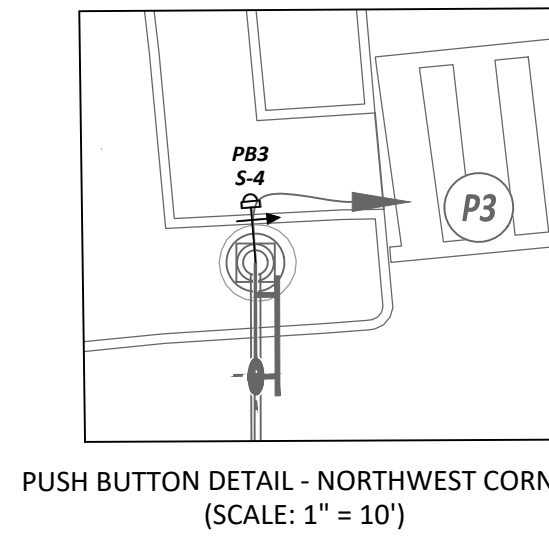
CONSTRUCTION NOTES

- REMOVE EXISTING PUSHBUTTON.
- REMOVE EXISTING PEDESTRIAN SIGNAL P4.
- EXISTING SIGNAL CABINET TO REMAIN.
- INSTALL ACCESSIBLE PEDESTRIAN SIGNAL PUSH BUTTON AND SIGN ON A 17-INCH PUSHBUTTON EXTENDER MOUNTED TO THE EXISTING SIGNAL POLE.
- INSTALL ACCESSIBLE PEDESTRIAN SIGNAL PUSH BUTTON AND SIGN ON A 90-DEGREE, 17-INCH PUSHBUTTON EXTENDER MOUNTED TO THE EXISTING SIGNAL POLE.
- CONTRACTOR TO INSTALL TRANSIT SIGNAL PRIORITY EQUIPMENT. SEE SHEETS C-916 THROUGH C-918.

PROPOSED ACCESSIBLE PEDESTRIAN PUSHBUTTON



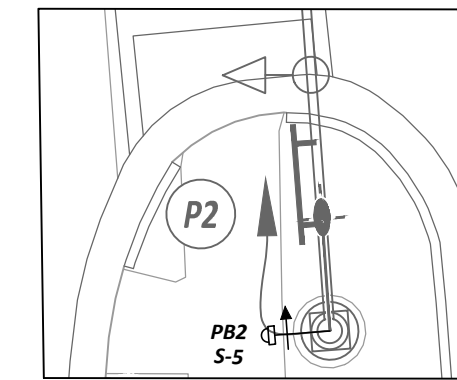
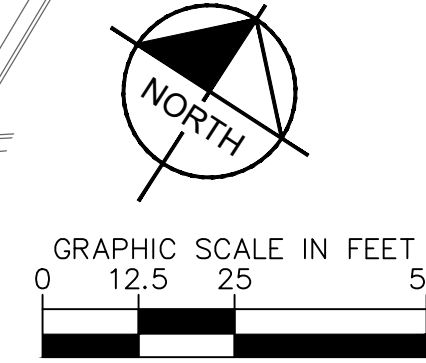
PUSHBUTTON (QUADRANT)	SPEECH PB INFORMATION MESSAGE	AUDIBLE WALK INDICATION
PB3 (NW) PB3 (NE)	WAIT TO CROSS SEMINARY AT MARK CENTER.	PERCUSSIVE TONE
PB2 (SE) PB2 (NE)	WAIT TO CROSS MARK CENTER AT SEMINARY.	PERCUSSIVE TONE



PHASE	1	2	3	4	5	6	1+5	1+6	2+5	2+6	FLASH
SIGNAL	R/W	R/W	R/W	R/W	R/W	R/W	R/W	R/W	R/W	R/W	
1	<G						<G	<G			<R
2		G							G	G	Y
3			G								R
3A			<G								<R
3B			G								R
4				G							R
4A				<G	<G				<G		R
4B				G							R
5					<G				<G		<R
6						G		G		G	Y
P2		W*							W*	W*	DARK
P3			W*								DARK

NOTE: BLANK SPACES IN THIS CHART REPRESENT A "RED" SIGNAL INDICATION.

*WALK INDICATION IS DISPLAYED WHEN PEDESTRIAN CALL IS SERVICED; WALK INDICATION IS DISPLAYED UNTIL IT IS TIMED OUT. OTHERWISE "DON'T WALK" INDICATION IS DISPLAYED.



PHASE	1	2	3	4	5	6	7	8
MOVEMENT	SB LT SEMINARY RD	NB SEMINARY RD	WB DRIVEWAY	EB MARK CENTER AVE	NB LT SEMINARY RD	SB SEMINARY RD		
PHASE ON	X	X	X	X	X	X		
PHASE OFF							X	X

	1	2	3	4	5	6	7	8
MIN GREEN	4.0	10.0	7.0	7.0	4.0	10.0		
PASSAGE	3.0	0.0	4.0	4.0	3.0	0.0		
YELLOW	3.0	3.5	3.5	3.4	3.0	3.4		
RED	3.7	1.4	4.9	4.5	3.9	1.6		
MAX 1	20.0	40.0	38.0	38.0	35.0	40.0		
MAX 2	0.0	0.0	0.0	0.0	0.0	0.0		
MIN GAP	0.0	0.0	0.0	0.0	0.0	0.0		
TIME BEFORE REDUCTION	0.0	0.0	0.0	0.0	0.0	0.0		
TIME TO REDUCE	0.0	0.0	0.0	0.0	0.0	0.0		
PED WALK	0.0	7.0	7.0	0.0	0.0	0.0		
PED CLEARANCE	0.0	25.0	27.0	0.0	0.0	0.0		
MODE	NON-LOCK	MAX RECALL	NON-LOCK	NON-LOCK	NON-LOCK	MAX RECALL		

NOTE: TIMINGS SHOWN ARE EXISTING AND OBTAINED FROM THE CITY OF ALEXANDRIA, EXCEPT VALUES IN BOLD, WHICH WERE CHANGED OR ADDED AS PART OF THIS PROJECT.

LEGEND

	EXISTING	PROPOSED
Controller Cabinet	⊠	⊠
Signal Junction Box (VDOT Std. JB-S2)	⊙	⊙
Signal Junction Box (VDOT Std. JB-S3)	⊠	⊠
Comm. Junction Box (VDOT Std. JB-S2)	⊙	⊙
Service Junction Box (VDOT Std. JB-S2)	⊙	⊙
Mast Arm Pole & Foundation	⊙	⊙
Pedestrian Pedestal Pole & Foundation	⊙	⊙
Carlyle Lighting Pole & Foundation	⊙	⊙
Service Meter	⊙	⊙
Battery Backup (UPS)	⊙	⊙
Vehicle Signal Head (LED)	⊙	⊙
Pedestrian Push Button	⊙	⊙
Video Detection Camera	⊙	⊙
Side-Fire Radar Detection	⊙	⊙
360-Degree Fisheye Vehicle Detection Camera	⊙	⊙
Overhead Light (LED)	⊙	⊙
Conduit	—	—
Video or Radar Detection Zone (6' X 40')	⊙	⊙
Loop Detection	⊙	⊙

90% DESIGN PHASE



CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

REVISIONS

DATE	DESCRIPTION

ALEXANDRIA PROJECT NO.: 110104122

DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: LT DATE: 9/25/23
 DRAWN BY: LT DATE: 9/25/23
 CHECKED BY: DCM DATE: 9/25/23
 APPROVED BY: DATE:

WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

TRAFFIC SIGNAL PLANS -
 SEMINARY RD AT MARK
 CENTER AVE

SHEET
 C-913
 SCALE 1" = 25'

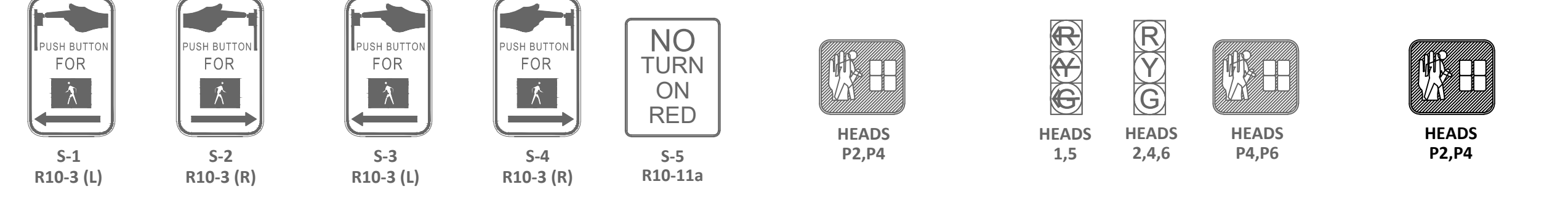
Plotted By: LoShier, Richard Sheet Set: West End Transitway - Phase 1 Layout: TRAFFIC SIGNAL PLANS - BEAUREGARD ST AT FILLMORE AVE July 11, 2024 06:43:57pm K:\NVA_Transit\110104122_ West End Transitway Design\CADD\PlanSheets\SIGNAL PLANS_SANGER_FILLMORE.dwg

CONDUIT & CABLE LEGEND

- (A)** EXISTING CONDUIT(S)
2-14/5c PEDESTRIAN SIGNAL HEADS P2, P4
2-14/2c PEDESTRIAN PUSH BUTTONS PB2, PB4
 - (B)** 1-3" CONDUIT (TRENCHED) PVC
2-14/5c PEDESTRIAN SIGNAL HEADS P2, P4
2-14/2c PEDESTRIAN PUSH BUTTONS PB2, PB4
1-#6 AWG
 - (C)** EXISTING CONDUIT(S)
2-14/5c PEDESTRIAN SIGNAL HEADS P2, P4
2-14/2c PEDESTRIAN PUSH BUTTONS PB2, PB4
2-14/5c PEDESTRIAN SIGNAL HEADS P2, P4
2-14/2c PEDESTRIAN PUSH BUTTONS PB2, PB4
 - (D)** 1-3" CONDUIT (TRENCHED) PVC
2-14/5c PEDESTRIAN SIGNAL HEADS P4
1-14/2c PEDESTRIAN PUSH BUTTON P4
1-#6 AWG
 - (E)** EXISTING CONDUIT(S)
3-14/7c TRAFFIC SIGNAL HEADS 1, 4, 6
2-VIDEO DETECTOR CABLES VD1, VD4, VD6
 - (F)** EXISTING CONDUIT(S)
2-14/5c PEDESTRIAN SIGNAL HEADS P4, P6
2-14/2c PEDESTRIAN PUSH BUTTONS PB4, PB6
 - (G)** EXISTING CONDUIT(S)
3-14/7c TRAFFIC SIGNAL HEADS 1, 4, 6
2-VIDEO DETECTOR CABLES VD1, VD4, VD6
2-14/5c PEDESTRIAN SIGNAL HEADS P4, P6
2-14/2c PEDESTRIAN PUSH BUTTONS PB4, PB6
2-14/5c PEDESTRIAN SIGNAL HEADS P2, P4
2-14/2c PEDESTRIAN PUSH BUTTONS PB2, PB4
4-14/2c PEDESTRIAN SIGNAL HEADS P2, P4
3-14/2c PEDESTRIAN PUSH BUTTONS PB2, PB4
 - (H)** EXISTING CONDUIT(S)
2-14/5c PEDESTRIAN SIGNAL HEADS P4, P6
2-14/2c PEDESTRIAN PUSH BUTTONS PB4, PB6
 - (I)** 1-3" CONDUIT (TRENCHED) PVC
2-14/5c PEDESTRIAN SIGNAL HEADS P4
1-14/2c PEDESTRIAN PUSH BUTTON P4
1-#6 AWG
 - (J)** EXISTING CONDUIT(S)
3-14/7c TRAFFIC SIGNAL HEADS 2, 4, 5
2-VIDEO DETECTOR CABLES VD2, VD4, VD5
- LEGEND
 EXISTING CABLE TO REMAIN
 EXISTING CABLE TO BE REMOVED
 PROPOSED CABLE TO BE INSTALLED

- (K)** EXISTING CONDUIT(S)
6-14/7c TRAFFIC SIGNAL HEADS 1, 2, 4, 5, 6
4-VIDEO DETECTOR CABLES VD1, VD2, VD4, VD5, VD6
4-14/5c PEDESTRIAN SIGNAL HEADS P4, P6
4-14/2c PEDESTRIAN PUSH BUTTONS PB4, PB6
2-14/5c PEDESTRIAN SIGNAL HEADS P2, P4
2-14/2c PEDESTRIAN PUSH BUTTONS PB2, PB4
6-14/5c PEDESTRIAN SIGNAL HEADS P2, P4
4-14/2c PEDESTRIAN PUSH BUTTONS PB2, PB4
 - (L)** 1-3" CONDUIT (TRENCHED) PVC
2-14/5c PEDESTRIAN SIGNAL HEADS P2, P4
2-14/2c PEDESTRIAN PUSH BUTTONS PB2, PB4
1-#6 AWG
 - (M)** EXISTING CONDUIT(S)
2-14/5c PEDESTRIAN SIGNAL HEADS P2, P4
2-14/2c PEDESTRIAN PUSH BUTTONS PB2, PB4
 - (N)** EXISTING CONDUIT(S)
6-14/7c TRAFFIC SIGNAL HEADS 1, 2, 4, 5, 6
4-VIDEO DETECTOR CABLES VD1, VD2, VD4, VD5, VD6
4-14/5c PEDESTRIAN SIGNAL HEADS P4, P6
4-14/2c PEDESTRIAN PUSH BUTTONS PB4, PB6
4-14/5c PEDESTRIAN SIGNAL HEADS P2, P4
4-14/2c PEDESTRIAN PUSH BUTTONS PB2, PB4
8-14/5c PEDESTRIAN SIGNAL HEADS P2, P4
6-14/2c PEDESTRIAN PUSH BUTTONS PB2, PB4
- NOTES:
 1. EXISTING JUNCTION BOXES AND CONDUITS ARE BASED ON AVAILABLE SURVEY DATA AND INFORMATION OBTAINED DURING SITE VISITS. THESE ITEMS ARE SHOWN AT THEIR APPROXIMATE LOCATION BASED ON THE AVAILABLE INFORMATION.
 2. ACTUAL SIZE, NUMBER, AND LOCATION OF CONDUITS MAY VARY. THE CONTRACTOR SHALL NOTIFY THE CITY OF ANY CONFLICTS BETWEEN THE PLANS AND THE FIELD CONDITIONS AND OBTAIN WRITTEN AUTHORIZATION FROM THE CITY TO DEVIATE FROM THE PLANS TO PROVIDE THE PROPOSED SIGNAL CONFIGURATION SHOWN IN THESE PLANS.
 3. CONTRACTOR SHALL REMOVE UNUSED SIGNAL CABLE FROM EXISTING CONDUITS IF NO LONGER BEING USED TO OPERATE THE TRAFFIC SIGNAL.
 4. THESE PLANS ASSUME THAT APPROPRIATE CONDUIT AND JUNCTION BOX GROUNDING IS IN PLACE.

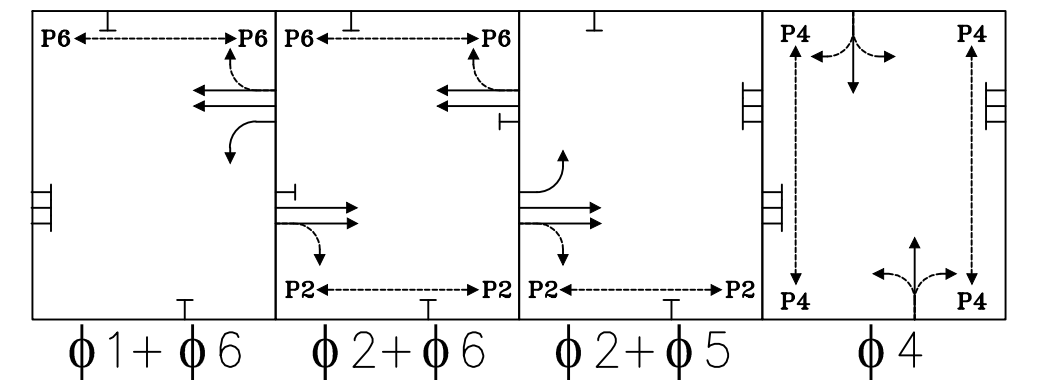
EXISTING SIGNS TO BE REMOVED **EXISTING SIGNS TO REMAIN** **EXISTING SIGNALS TO BE REMOVED** **EXISTING SIGNALS TO REMAIN** **PROPOSED SIGNALS**



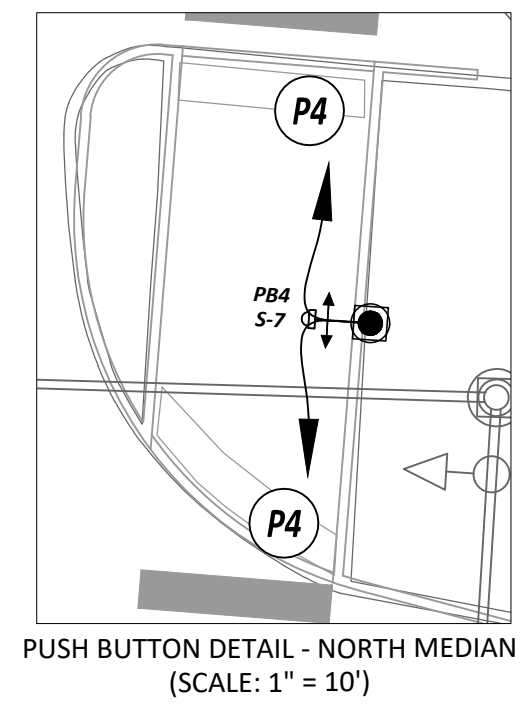
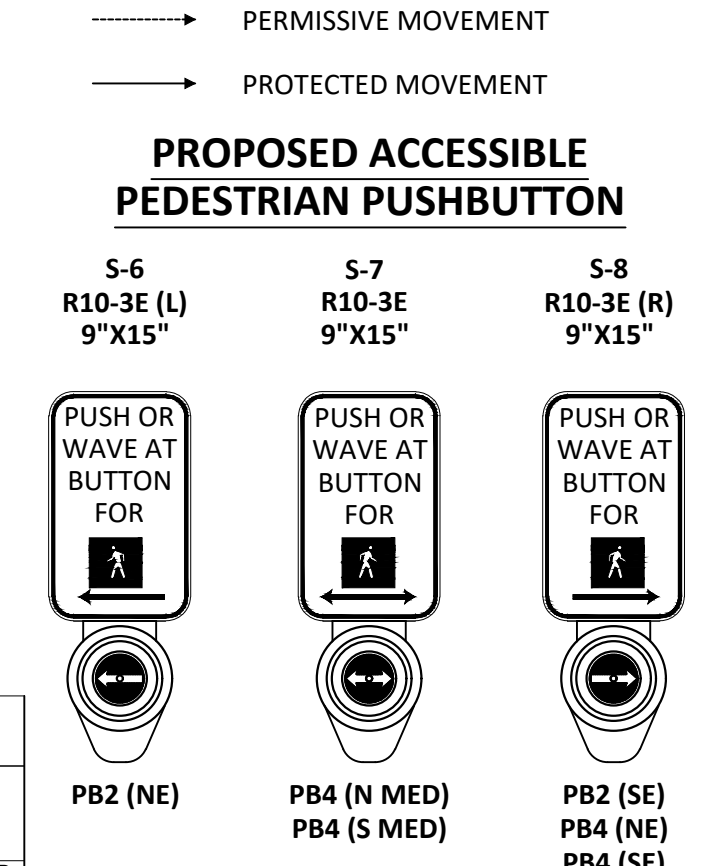
CONSTRUCTION NOTES

- 1 REMOVE EXISTING PEDESTAL POLE, PUSHBUTTONS, SIGNS, AND FOUNDATION.
- 2 EXISTING SIGNAL CABINET TO REMAIN.
- 3 INSTALL VDOT STD. PF-2 WITH PEDESTRIAN SIGNAL(S), ACCESSIBLE PEDESTRIAN SIGNAL PUSH BUTTON(S), AND SIGN(S).
- 4 CONTRACTOR TO ENSURE POLE FOUNDATION IS FLUSH WITH SIDEWALK GRADE WHEN INSTALLED ON OR ADJACENT TO SIDEWALK. INCORPORATE POLE FOUNDATION INTO CG-2 WHEN INSTALLED ADJACENT TO CURB RAMP.
- 5 EXISTING MEDIAN REFUGES WERE CONSTRUCTED AFTER SURVEY WAS PERFORMED. THE GEOMETRY SHOWN IS FOR REFERENCE ONLY.
- 6 DESIGN OF NEW SIDEWALK, CURB RAMPS, AND CURB AND GUTTER ARE SHOWN BEGINNING ON SHEET C-101.
- 7 DESIGN OF NEW PAVEMENT MARKINGS ARE SHOWN BEGINNING ON SHEET C-601.
- 8 CONTRACTOR TO SAW CUT AND REMOVE 2 FEET OF EXISTING CG-2 CURB TO INSTALL PROPOSED PEDESTAL POLE FOUNDATION INCORPORATED INTO NEW CG-2 CURB.
- 9 EXISTING UNDERGROUND UTILITIES ARE PRESENT IN CLOSE PROXIMITY TO THE PROPOSED PEDESTAL POLE FOUNDATION. CONTRACTOR TO HAND DIG PEDESTAL POLE FOUNDATION AND ADJUST THE LOCATION OF THE POLE FOUNDATION IF CONFLICTS ARE IDENTIFIED. CONTRACTOR TO NOTIFY THE ENGINEER IF POLE LOCATION MUST BE ADJUSTED MORE THAN SIX INCHES FROM THE ORIGINALLY PROPOSED LOCATION.
- 10 CONTRACTOR TO INSTALL TRANSIT SIGNAL PRIORITY EQUIPMENT. SEE SHEETS C-916 THROUGH C-918.
- 11 ADJUST THE COLLAR OF THE EXISTING JUNCTION BOX TO BE FLUSH WITH THE FINISHED ELEVATION OF THE SIDEWALK.

EXISTING & PROPOSED PHASING DIAGRAM



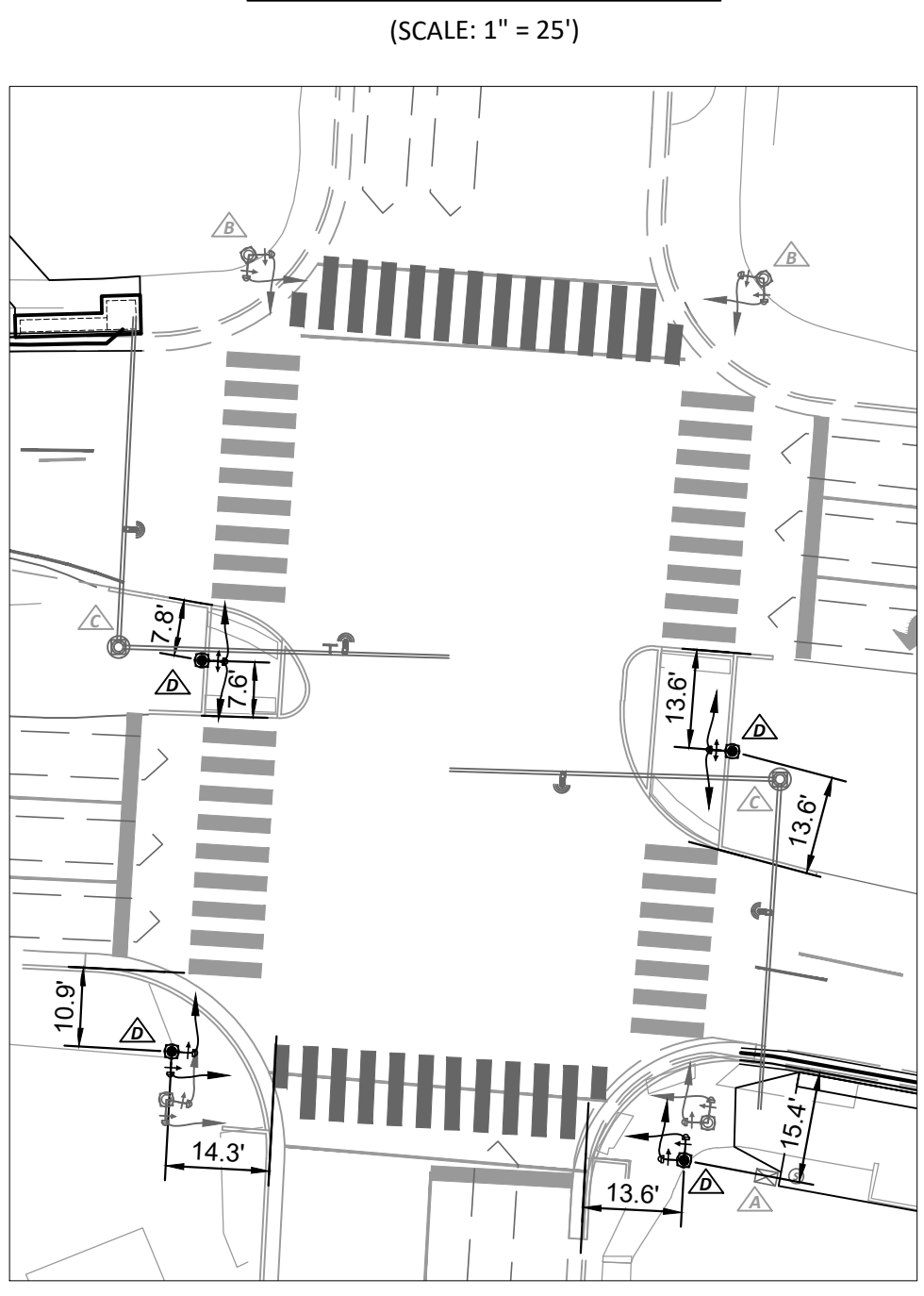
PROPOSED ACCESSIBLE PEDESTRIAN PUSHBUTTON



PUSHBUTTON (QUADRANT)	SPEECH PB INFORMATION MESSAGE	AUDIBLE WALK INDICATION
PB4 (N MED) PB4 (S MED)	WAIT TO CROSS NORTH BEAUREGARD AT FILLMORE	PERCUSSIVE TONE
PB4 (NE) PB4 (SE)	WAIT TO CROSS NORTH BEAUREGARD AT FILLMORE	NORTH BEAUREGARD. WALK SIGN IS ON TO CROSS NORTH BEAUREGARD
PB2 (NE) PB2 (SE)	WAIT TO CROSS FILLMORE AT NORTH BEAUREGARD	FILLMORE. WALK SIGN IS ON TO CROSS FILLMORE

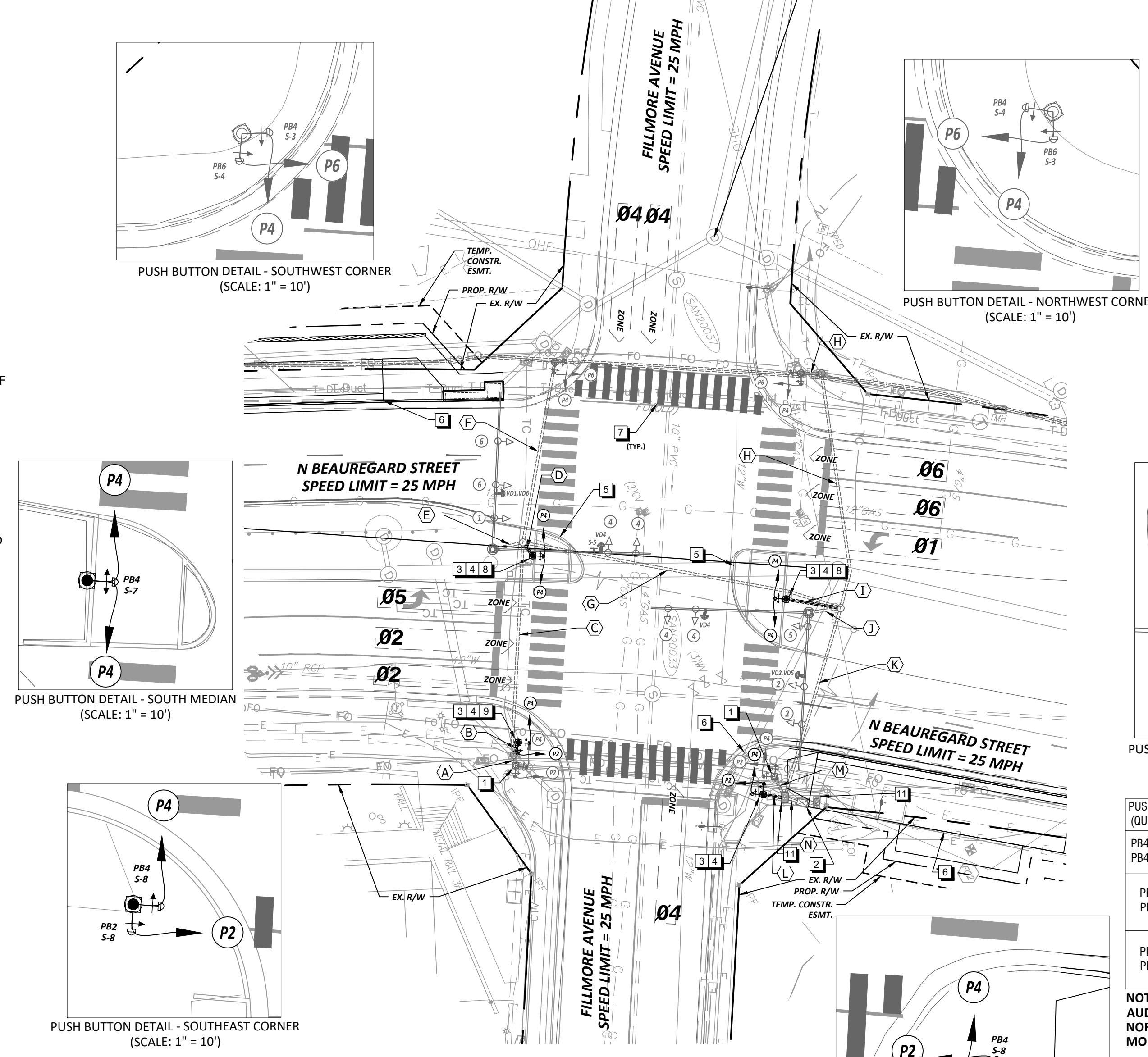
NOTE: EXISTING SPEECH PB INFORMATION MESSAGE AND AUDIBLE WALK TONE FOR PUSHBUTTONS ON THE NORTHWEST AND SOUTHWEST CORNERS SHALL NOT BE MODIFIED.

POLE LOCATION DETAIL



SIGNAL POLE AND CONTROLLER LEGEND:

- △ EXISTING CONTROLLER CABINET
- △ EXISTING PEDESTAL POLE - 2 TOTAL
- △ EXISTING DUAL MAST ARM POLE - 2 TOTAL
- △ 10' PEDESTAL POLE (PF-2) - 4 TOTAL



INITIAL TIMING CHART

PHASE	1	2	3	4	5	6	7	8
MOVEMENT	SB LT N BEAUREGARD	NB N BEAUREGARD	ER WB FILLMORE	NB LT N BEAUREGARD	SB N BEAUREGARD			
PHASE ON	X	X		X	X	X		
PHASE OFF			X				X	X
MIN GR	12.0	10.0	NOT USED	18.0	14.0	10.0	NOT USED	NOT USED
PASSAGE	2.0	0.0		2.0	2.0	0.0		
YELLOW	3.0	3.7		4.2	3.0	3.1		
RED	3.0	1.0		3.5	2.8	1.0		
MAX 1	15.0	45.0		23.0	15.0	45.0		
MAX 2	0.0	0.0		0.0	0.0	0.0		
MIN GAP	0.0	0.0		0.0	0.0	0.0		
TIME BEFORE REDUCTION	0.0	0.0		0.0	0.0	0.0		
TIME TO REDUCE	0.0	0.0		0.0	0.0	0.0		
PED WALK	0.0	7.0		7.0	0.0	7.0		
PED CLEARANCE	0.0	9.0		23.0	0.0	12.0		
MODE	NON-LOCK	MAX RECALL		NON-LOCK	NON-LOCK	MAX RECALL		

NOTE: TIMINGS SHOWN ARE EXISTING AND OBTAINED FROM THE CITY OF ALEXANDRIA, EXCEPT VALUES IN BOLD, WHICH WERE CHANGED OR ADDED AS PART OF THIS PROJECT.

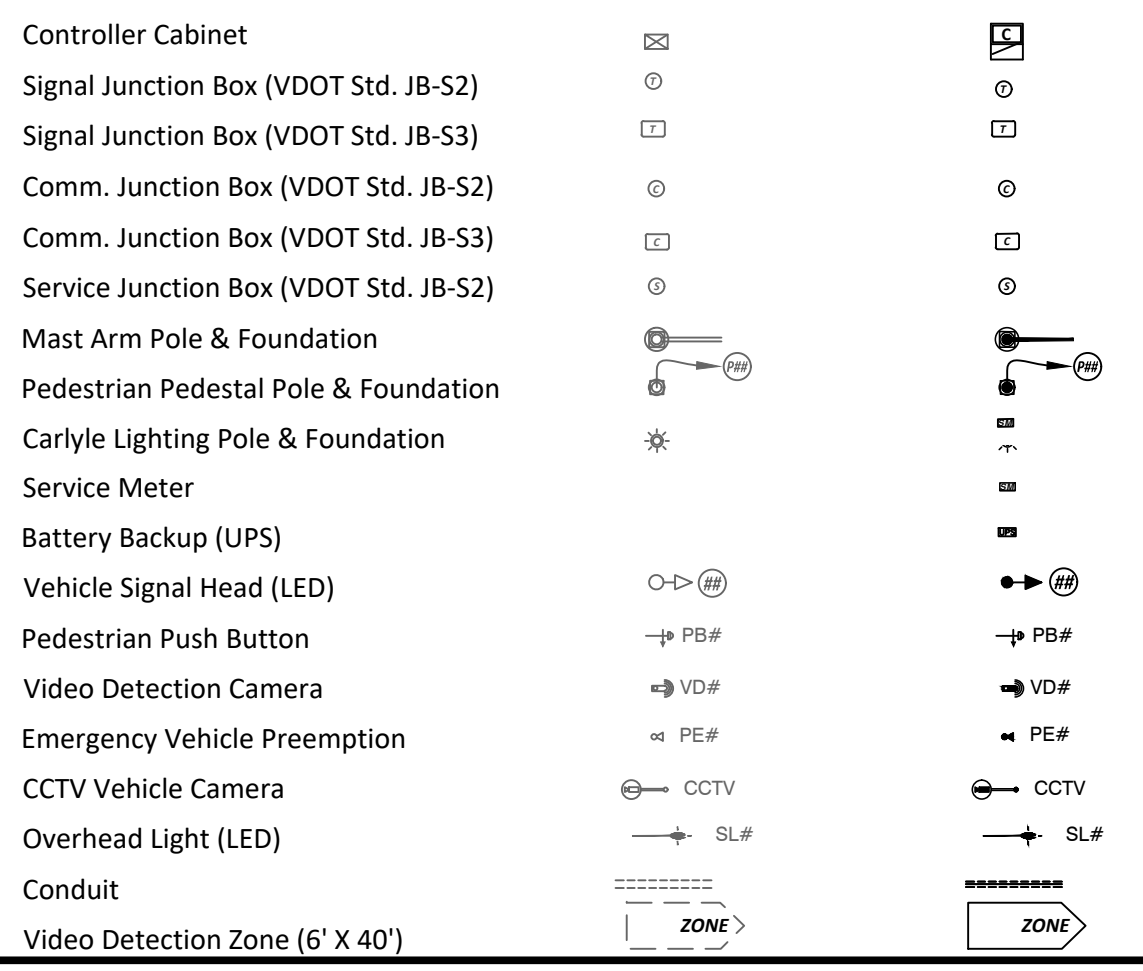
COLOR SEQUENCE CHART

PHASE	1	2	4	6	1+5	1+6	2+5	2+6	FLASH
SIGNAL	R/W	R/W	R/W	R/W	R/W	R/W	R/W	R/W	
1	<G				<G	<G			<R
2		G					G	G	Y
4			G						R
5					<G	<G			<R
6				G		G		G	Y
P2		W*					W*	W*	DARK
P4			W*						DARK
P6				W*	W*		W*		DARK

NOTE: BLANK SPACES IN THIS CHART REPRESENT A "RED" SIGNAL INDICATION.

*WALK INDICATION IS DISPLAYED WHEN PEDESTRIAN CALL IS SERVICED; WALK INDICATION IS DISPLAYED UNTIL IT IS TIMED OUT. OTHERWISE "DON'T WALK" INDICATION IS DISPLAYED.

LEGEND



90% DESIGN PHASE



CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

REVISIONS

BY	DESCRIPTION

ALEXANDRIA PROJECT NO.: 110104122

DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: PGJ DATE: 7/11/24
 DRAWN BY: PGJ DATE: 7/11/24
 CHECKED BY: DCM DATE: 7/11/24
 APPROVED BY: _____ DATE: _____

WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

TRAFFIC SIGNAL PLANS -
 BEAUREGARD ST AT
 FILLMORE AVE

SHEET
 C-914
 SCALE 1" = 25'

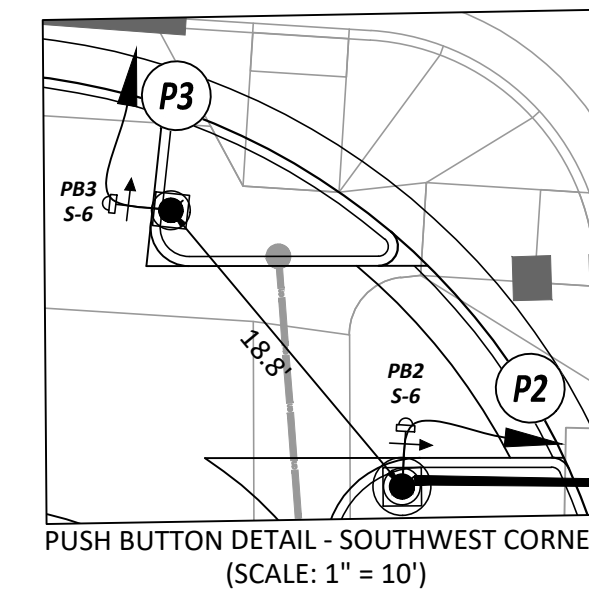
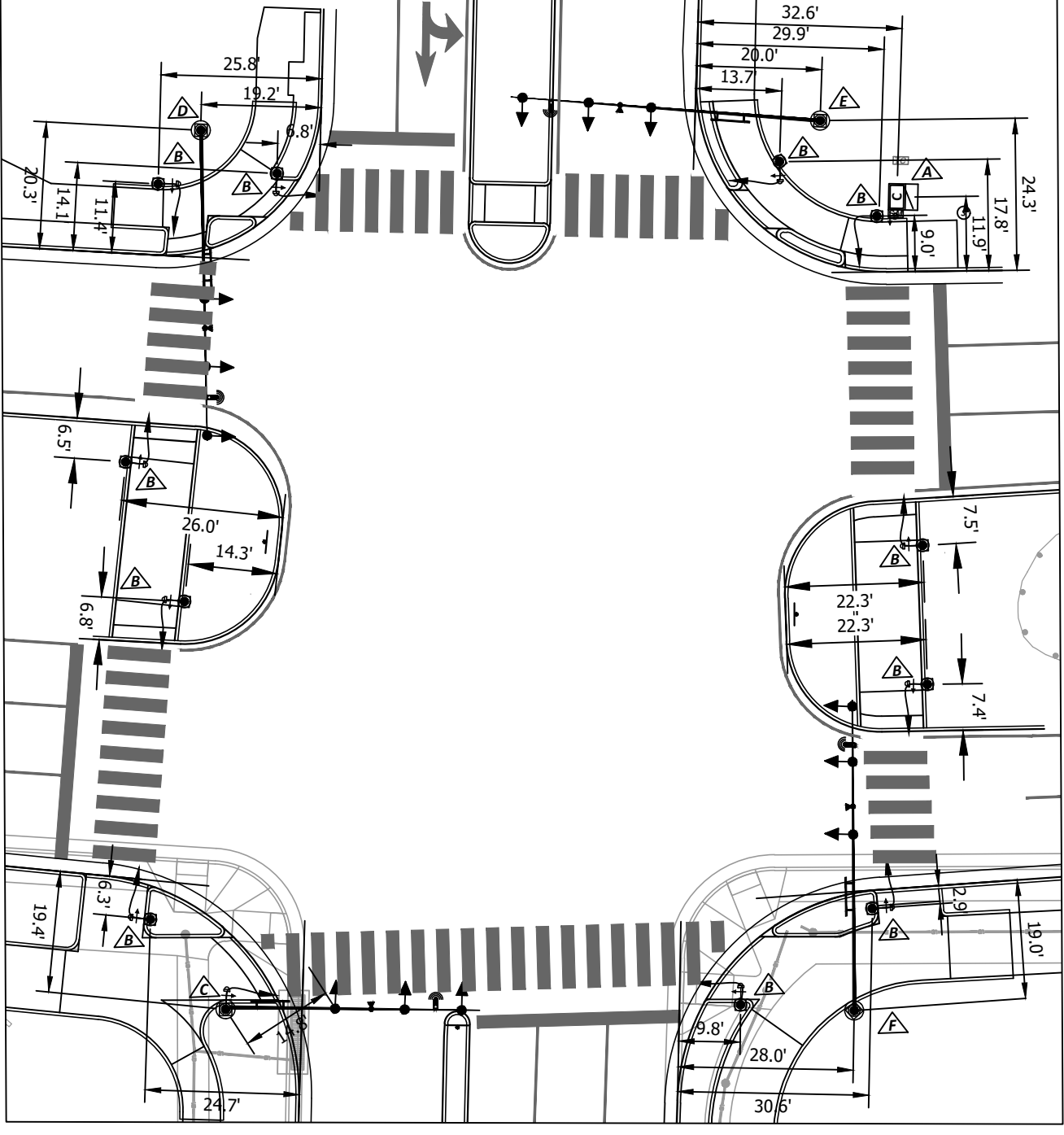
CONDUIT & CABLE LEGEND

- A** 1-3" CONDUIT (TRENCHED) PVC
2-14/7c TRAFFIC SIGNAL HEADS 1, 6
1-VIDEO DETECTOR CABLE VD1, VD6
1-#6 AWG
- B** 1-3" CONDUIT (TRENCHED) PVC
1-14/5c PEDESTRIAN SIGNAL HEAD P6
1-14/2c PEDESTRIAN PUSH BUTTON PB6
1-#6 AWG
- C** 1-3" CONDUIT (TRENCHED) PVC
1-14/5c PEDESTRIAN SIGNAL HEAD P3
1-14/2c PEDESTRIAN PUSH BUTTON PB3
1-#6 AWG
- D** 1-3" CONDUIT (BORED) HDPE
2-14/7c TRAFFIC SIGNAL HEADS 1, 6
2-14/5c PEDESTRIAN SIGNAL HEADS P3, P6
2-14/2c PEDESTRIAN PUSH BUTTONS PB3, PB6
1-VIDEO DETECTOR CABLE VD1, VD6
1-#6 AWG
- E** 1-2" CONDUIT (BORED) HDPE
1-OPTICOM CABLE PE1, PE6
1-#6 AWG
- F** 1-3" CONDUIT (TRENCHED) PVC
1-14/5c PEDESTRIAN SIGNAL HEAD P3
1-14/2c PEDESTRIAN PUSH BUTTON PB3
1-#6 AWG
- G** 2-3" CONDUIT (BORED) HDPE
2-14/7c TRAFFIC SIGNAL HEADS 1, 6
4-14/5c PEDESTRIAN SIGNAL HEADS P3, P6
4-14/2c PEDESTRIAN PUSH BUTTONS PB3, PB6
1-VIDEO DETECTOR CABLE VD1, VD6
1-#6 AWG
- H** 1-2" CONDUIT (BORED) HDPE
1-OPTICOM CABLE PE1, PE6
1-#6 AWG
- I** 1-3" CONDUIT (TRENCHED) PVC
2-14/7c TRAFFIC SIGNAL HEADS 3, 3A
1-14/5c PEDESTRIAN SIGNAL HEAD P2
1-14/2c PEDESTRIAN PUSH BUTTON PB2
1-VIDEO DETECTOR CABLE VD3
1-#6 AWG
- J** 1-2" CONDUIT (TRENCHED) PVC
1-OPTICOM CABLE PE3
1-#6 AWG
- K** 1-3" CONDUIT (TRENCHED) PVC
1-14/5c PEDESTRIAN SIGNAL HEAD P2
1-14/2c PEDESTRIAN PUSH BUTTON PB2
1-#6 AWG
- L** 1-3" CONDUIT (TRENCHED) PVC
2-14/7c TRAFFIC SIGNAL HEADS 2, 5
1-VIDEO DETECTOR VD2, VD5
1-#6 AWG
- M** 1-3" CONDUIT (TRENCHED) PVC
1-14/5c PEDESTRIAN SIGNAL HEAD P4
1-14/2c PEDESTRIAN PUSH BUTTON PB4
1-#6 AWG
- N** 3-3" CONDUIT (BORED) HDPE
6-14/7c TRAFFIC SIGNAL HEADS 1, 2, 3, 3A, 5, 6
8-14/5c PEDESTRIAN SIGNAL HEADS P2, P3, P4, P6
8-14/2c PEDESTRIAN PUSH BUTTONS PB2, PB3, PB4, PB6
3-VIDEO DETECTOR CABLES VD1, VD2, VD3, VD5, VD6
1-#6 AWG
- O** 1-2" CONDUIT (BORED) HDPE
3-OPTICOM CABLES PE1, PE2, PE3, PE5, PE6
1-#6 AWG
- P** 1-3" CONDUIT (TRENCHED) PVC
1-14/5c PEDESTRIAN SIGNAL HEAD P4
1-14/2c PEDESTRIAN PUSH BUTTON PB4
1-#6 AWG
- Q** 3-3" CONDUIT (BORED) HDPE
6-14/7c TRAFFIC SIGNAL HEADS 1, 2, 3, 3A, 5, 6
10-14/5c PEDESTRIAN SIGNAL HEADS P2, P3, P4, P6
10-14/2c PEDESTRIAN PUSH BUTTONS PB2, PB3, PB4, PB6
3-VIDEO DETECTOR CABLES VD1, VD2, VD3, VD5, VD6
1-#6 AWG
- R** 1-3" CONDUIT (TRENCHED) PVC
1-14/5c PEDESTRIAN SIGNAL HEAD P6
1-14/2c PEDESTRIAN PUSH BUTTON PB6
1-#6 AWG
- S** 1-3" CONDUIT (TRENCHED) PVC
1-14/5c PEDESTRIAN SIGNAL HEAD P4
1-14/2c PEDESTRIAN PUSH BUTTON PB4
1-#6 AWG
- T** 1-3" CONDUIT (TRENCHED) PVC
2-14/7c TRAFFIC SIGNAL HEADS 4, 4A, 4B
1-VIDEO DETECTOR CABLE VD4
1-#6 AWG
- U** 4-3" CONDUIT (TRENCHED) PVC
8-14/7c TRAFFIC SIGNAL HEADS 1, 2, 3, 3A, 4, 4A, 4B, 5, 6
12-14/5c PEDESTRIAN SIGNAL HEADS P2, P3, P4, P6
12-14/2c PEDESTRIAN PUSH BUTTONS PB2, PB3, PB4, PB6
4-VIDEO DETECTOR CABLES VD1, VD2, VD3, VD4, VD5, VD6
1-#6 AWG
- V** 1-2" CONDUIT (TRENCHED) METAL
1-1,100 LB PULL ROPE
1-#6 AWG
- W** 1-2" CONDUIT (TRENCHED) PVC
1-12 STRAND PON DROP CABLE
1-#6 AWG

LEGEND:
EXISTING CABLE TO REMAIN
EXISTING CABLE TO BE REMOVED
PROPOSED CABLE TO BE INSTALLED

POLE LOCATION DETAIL

(SCALE: 1" = 25')



PUSH BUTTON DETAIL - SOUTHWEST CORNER (SCALE: 1" = 10')

PUSH BUTTON DETAIL - SOUTHWEST CORNER (SCALE: 1" = 10')

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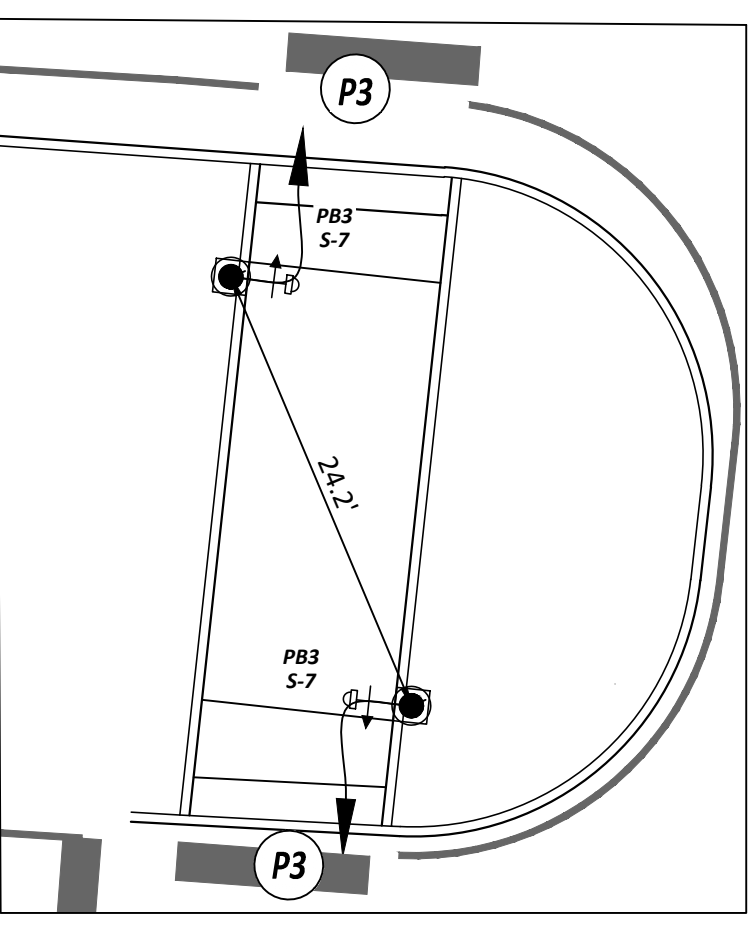
PUSH BUTTON DETAIL - SOUTHWEST CORNER (SCALE: 1" = 10')

PUSH BUTTON DETAIL - SOUTHWEST CORNER (SCALE: 1" = 10')

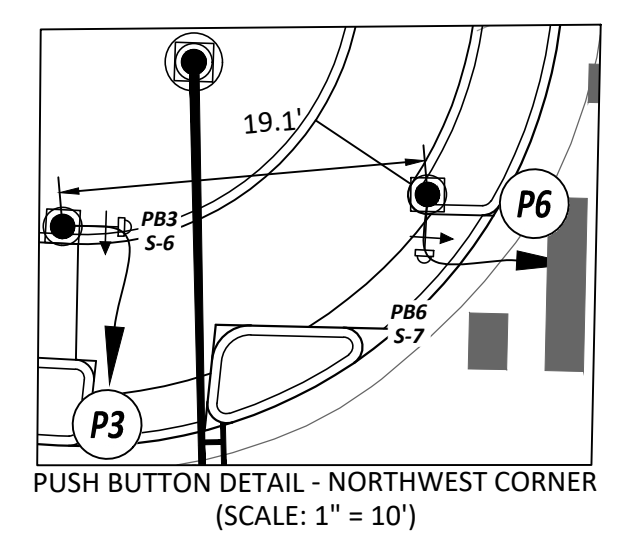
PUSH BUTTON DETAIL - SOUTHWEST CORNER (SCALE: 1" = 10')

PUSH BUTTON DETAIL - SOUTHWEST CORNER (SCALE: 1" = 10')

PUSH BUTTON DETAIL - SOUTHWEST CORNER (SCALE: 1" = 10')



PUSH BUTTON DETAIL - NORTHWEST CORNER (SCALE: 1" = 10')



PUSH BUTTON DETAIL - WEST MEDIAN (SCALE: 1" = 10')

PUSH BUTTON DETAIL - WEST MEDIAN (SCALE: 1" = 10')

PUSH BUTTON DETAIL - WEST MEDIAN (SCALE: 1" = 10')

PUSH BUTTON DETAIL - WEST MEDIAN (SCALE: 1" = 10')

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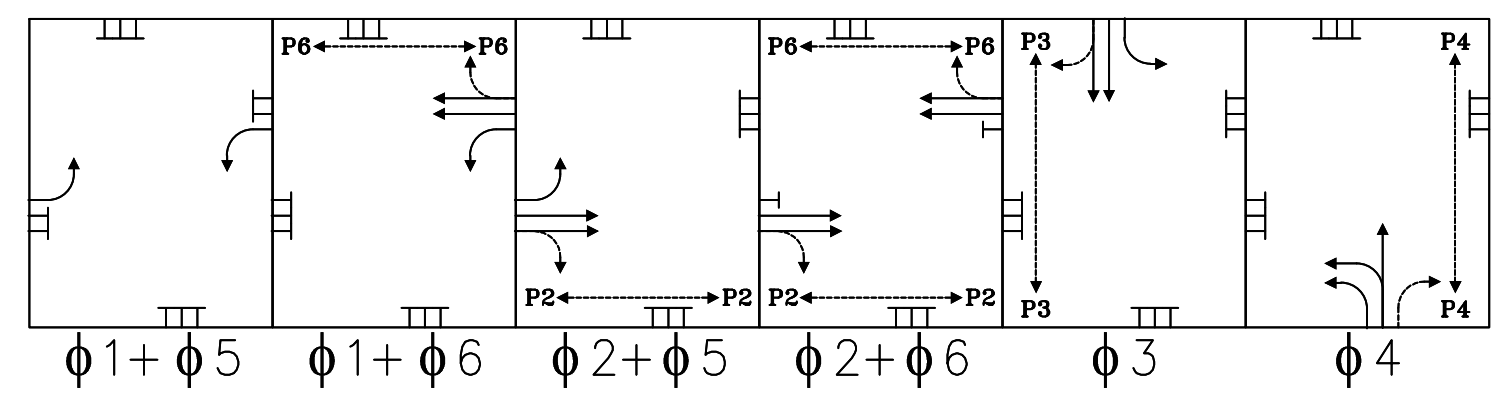
PUSH BUTTON DETAIL - WEST MEDIAN (SCALE: 1" = 10')

PUSH BUTTON DETAIL - WEST MEDIAN (SCALE: 1" = 10')

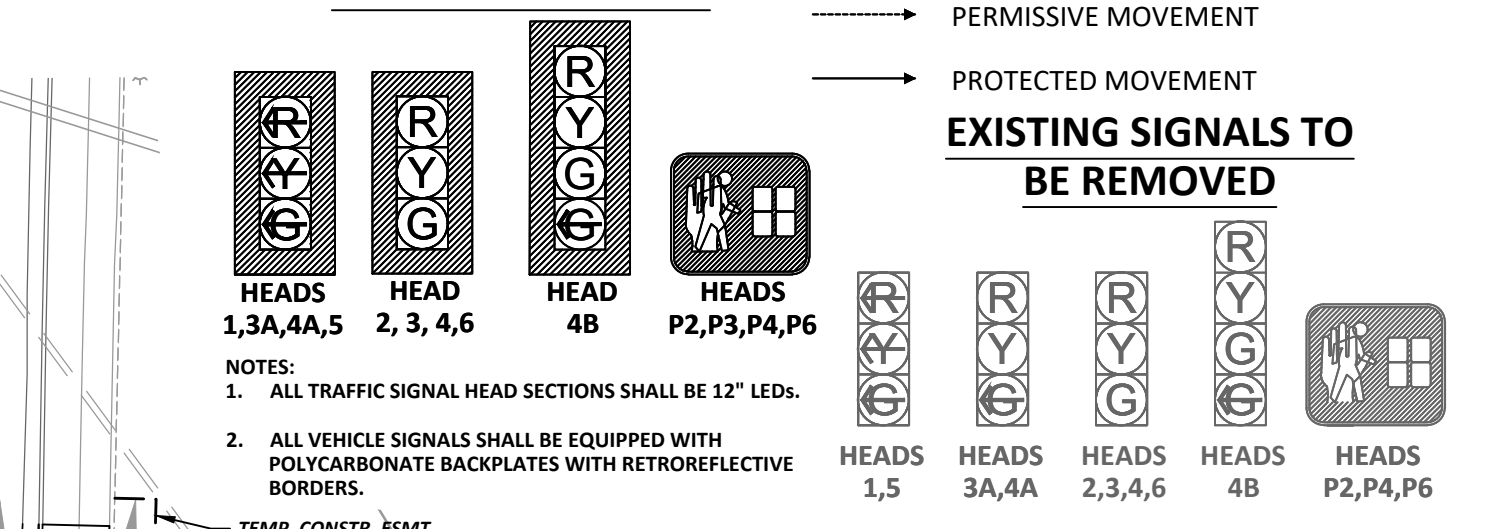
PUSH BUTTON DETAIL - WEST MEDIAN (SCALE: 1" = 10')

PUSH BUTTON DETAIL - WEST MEDIAN (SCALE: 1" = 10')

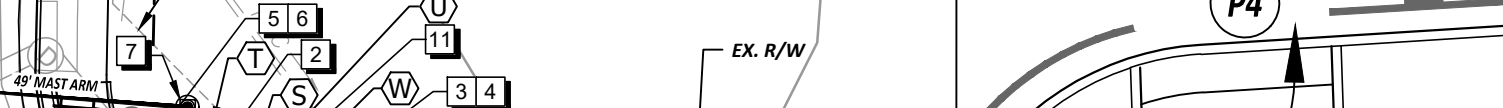
EXISTING & PROPOSED PHASING DIAGRAM



PROPOSED SIGNALS



EXISTING SIGNALS TO BE REMOVED



EXISTING SIGNS TO BE REMOVED



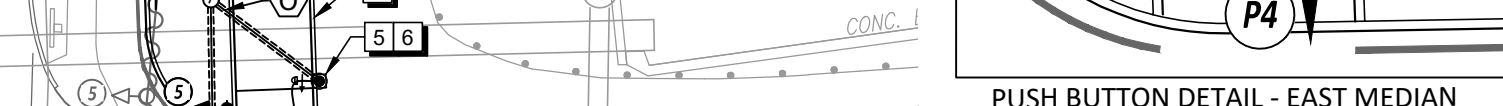
PROPOSED SIGNS



PROPOSED ACCESSIBLE PEDESTRIAN PUSHBUTTON



PHASING DIAGRAM LEGEND:



PHASE TIMINGS

PHASE	1	2	3	4	5	6	7	8
WB LT								
EA								
EB								
SB								
NB								
EB LT								
WB								

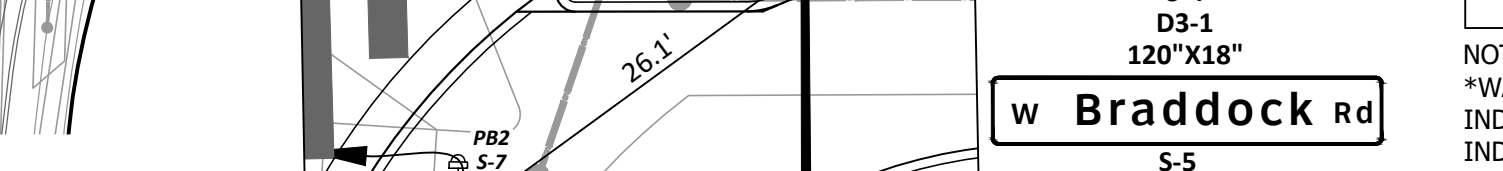
INITIAL TIMING CHART

PHASE	1	2	3	4	5	6	7	8
WB LT								
EA								
EB								
SB								
NB								
EB LT								
WB								

PHASE TIMINGS

	1	2	3	4	5	6
MIN GREEN	4.0	10.0	7.0	7.0	4.0	10.0
PASSAGE	3.0	0.0	4.0	4.0	3.0	0.0
YELLOW	3.0	3.6	4.5	4.7	3.0	3.2
RED	3.8	1.6	3.8	4.5	3.8	1.6
MAX 1	22.0	32.0	25.0	38.0	14.0	40.0
MAX 2	0.0	0.0	0.0	0.0	0.0	0.0
MIN GAP	0.0	0.0	0.0	0.0	0.0	0.0
TIME BEFORE REDUCTION	0.0	0.0	0.0	0.0	0.0	0.0
TIME TO REDUCE	0.0	0.0	0.0	0.0	0.0	0.0
PED WALK	0.0	4.0	4.0	4.0	0.0	4.0
PED CLEARANCE	0.0	17.0	25.0	23.0	0.0	17.0
MODE	NON-LOCK	MAX RECALL	NON-LOCK	NON-LOCK	NON-LOCK	MAX RECALL

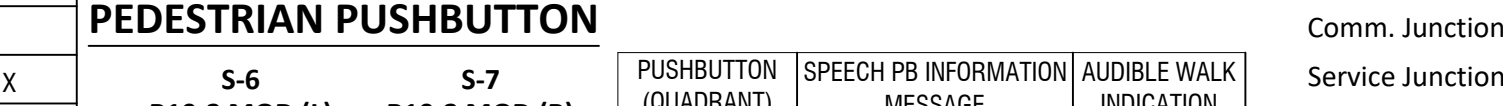
LEGEND



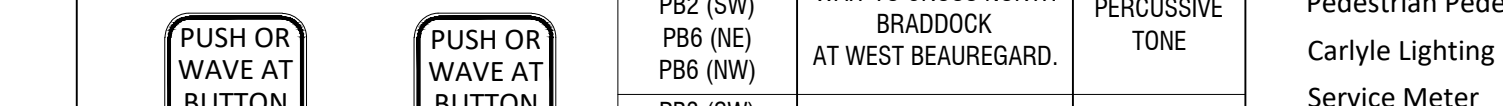
CONTROLLER CABINET



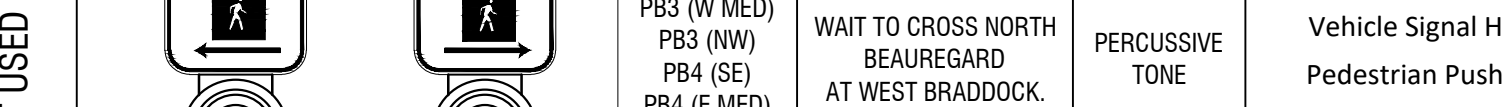
SIGNAL JUNCTION BOX



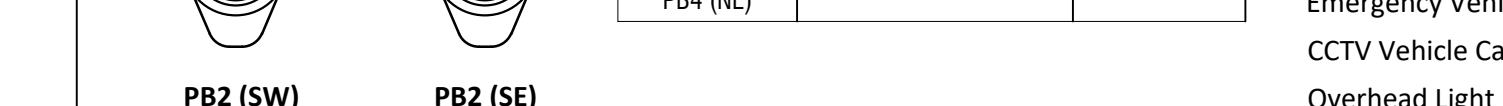
MAST ARM POLE & FOUNDATION



PEDESTRIAN PUSHPUTTON



VIDEO DETECTION CAMERA



EMERGENCY VEHICLE PREEMPTION



CCTV VEHICLE CAMERA



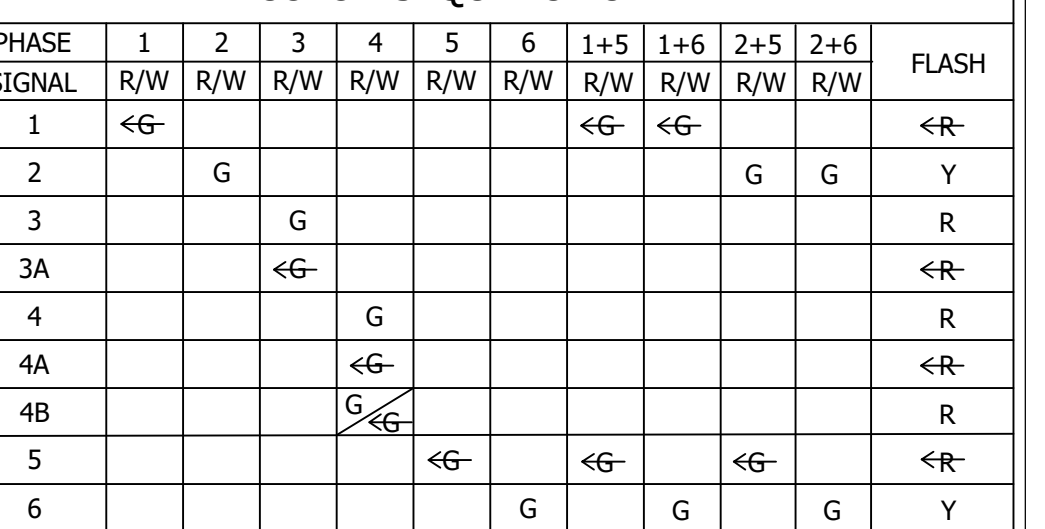
CONSTRUCTION NOTES

- REMOVE EXISTING SIGNAL CABINET.
- REMOVE EXISTING TRAFFIC SIGNAL POLES, SPAN WIRE, SIGNALS, PEDESTRIAN SIGNALS, CABLES, PUSHBUTTONS, AND SIGNS. REMOVE EXISTING FOUNDATION TO A MINIMUM DEPTH OF 24" BELOW GRADE.
- INSTALL SIGNAL CONTROLLER CABINET AND FOUNDATION. INSTALL HARDENED NETWORKS, ITS EXPRESS, ITS 8042+ ETHERNET SWITCH IN SIGNAL CONTROLLER CABINET. CABINET SHALL BE ORIENTED SO THAT CABINET DOOR OPENS TOWARD SIDEWALK AND SO THAT TECHNICIAN HAS VIEW OF SIGNAL DISPLAYS.
- INSTALL CABINET MOUNTED METER BASE PER VDOT STD. SE-6.
- INSTALL VDOT STD. PF-2 WITH PEDESTRIAN SIGNAL, ACCESSIBLE PEDESTRIAN SIGNAL PUSH BUTTON, AND SIGN.
- CONTRACTOR TO ENSURE POLE FOUNDATION IS FLUSH WITH SIDEWALK GRADE WHEN INSTALLED ON OR ADJACENT TO SIDEWALK. INCORPORATE POLE FOUNDATION INTO CG-2 WHEN INSTALLED ADJACENT TO CURB RAMP.
- INSTALL MAST ARM SIGNAL POLE WITH TRAFFIC SIGNAL HEADS, VIDEO DETECTION, EMERGENCY VEHICLE PREEMPTION, AND SIGN.
- INSTALL MAST ARM SIGNAL POLE WITH TRAFFIC SIGNAL HEADS, VIDEO DETECTION, EMERGENCY VEHICLE PREEMPTION, PEDESTRIAN SIGNAL, ACCESSIBLE PEDESTRIAN SIGNAL PUSH BUTTON, AND SIGNS.
- DESIGN OF NEW SIDEWALK, CURB RAMPS, AND CURB AND GUTTER ARE SHOWN BEGINNING ON SHEET C-101.
- DESIGN OF NEW PAVEMENT MARKINGS ARE SHOWN BEGINNING ON SHEET C-601.
- TERMINATION CABINET TO BE INSTALLED BY THE CITY OF ALEXANDRIA AS PART OF PHASE III INTEGRATION PLAN. DROP CABLE TO BE REMOVED AND REPLACED WITH NEW CONNECTION TO PROPOSED SIGNAL CABINET. SEE SPLICE DIAGRAM AS PER SHEET C-915A.
- CONTRACTOR TO INSTALL TRANSIT SIGNAL PRIORITY EQUIPMENT. SEE SHEETS C-916 THROUGH C-918.

COLOR SEQUENCE CHART

PHASE	1	2	3	4	5	6	1+5	1+6	2+5	2+6	FLASH
SIGNAL	R/W	R/W	R/W	R/W	R/W	R/W	R/W	R/W	R/W	R/W	
1	<G						<G	<G			<R
2		G							G	G	Y
3			G								R
3A			<G								<R
4				G							R
4A				<G							<R
4B				G							R
5					<G		<G	<G	<G		<R
6						G		G	G	G	Y
P2		W*						W*	W*		DARK
P3			W*								DARK
P4				W*							DARK
P6					W*		W*	W*	W*		DARK

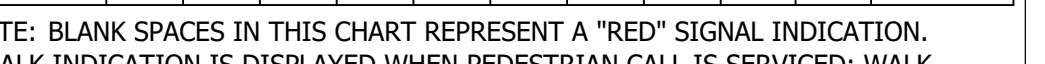
LEGEND



CONTROLLER CABINET



SIGNAL JUNCTION BOX



MAST ARM POLE & FOUNDATION



PEDESTRIAN PUSHPUTTON



VIDEO DETECTION CAMERA



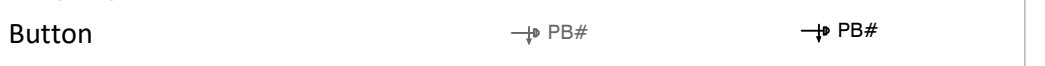
EMERGENCY VEHICLE PREEMPTION



CCTV VEHICLE CAMERA



OVERHEAD LIGHT (LED)



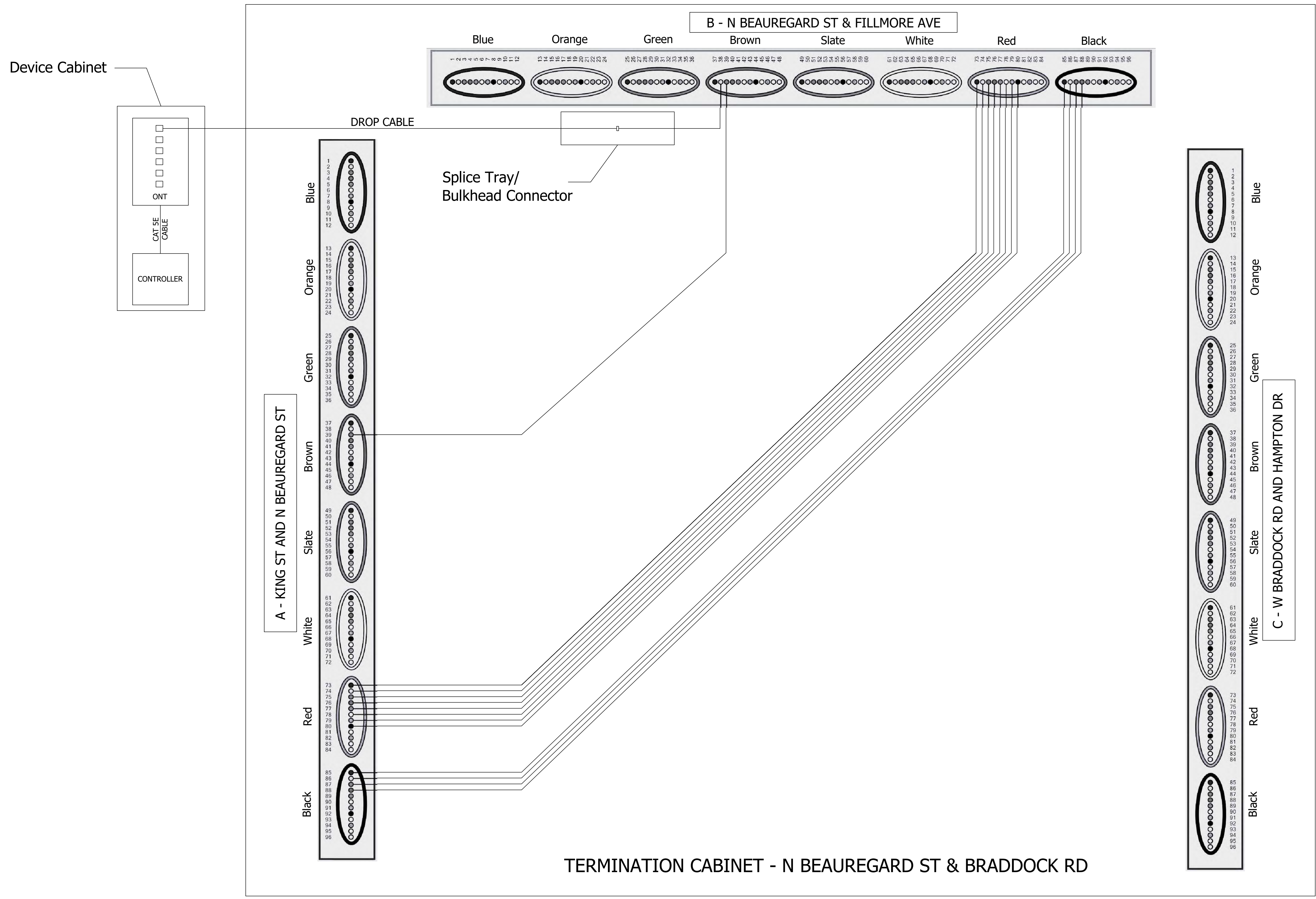
CONDUIT



Plotted By: LdShier, Richard Sheet Set: West End Transitway - Phase 1 Layout: SPlicing Diagram BEAUREGARD ST AT BRADDOCK RD July 11, 2024 06:46:37pm K:\VVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\COMMUNICATIONS PLANS.dwg

CONSTRUCTION NOTES

1 CONTRACTOR TO CONFIRM THAT THE CITY OF ALEXANDRIA PHASE II-IV PLANS HAVE BEEN BUILT AND THAT THE TERMINATION CABINET MATCHES THE EXISTING CONDITION PRIOR TO CONNECTING THE PON DROP CABLE AT THIS INTERSECTION.

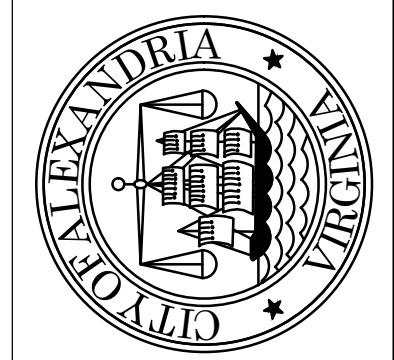


LEGEND

- A - BFO 96 to Pullbox @ King & N Beauregard
- B - BFO 96 to Pullbox @ N Beauregard & Fillmore
- C - BFO 96 to Pullbox @ W Braddock & N Hampton

ALL UNUSED FIBERS SHOULD BE ASSIGNED TO BE EXPRESS THRU.

WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS **90% DESIGN PHASE**



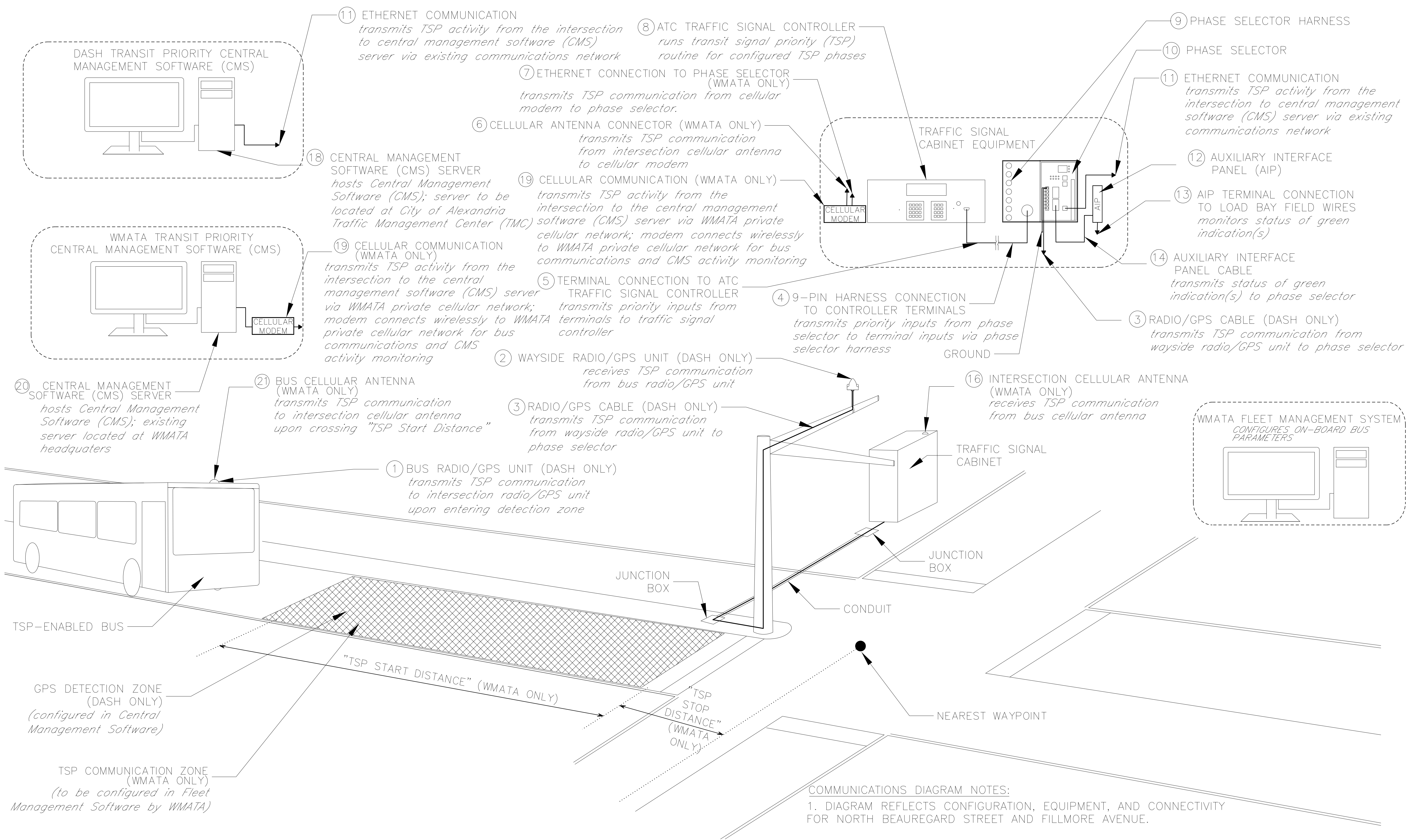
CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

REVISIONS	DESCRIPTION
DATE	BY

ALEXANDRIA PROJECT NO.: 110104122
 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID.: N/A
 DESIGNED BY: DATE: _____
 DRAWN BY: DATE: _____
 CHECKED BY: DATE: _____
 APPROVED BY: DATE: _____

**TRAFFIC SIGNAL PLANS --
 SPlicing DIAGRAM
 BEAUREGARD ST AT
 BRADDOCK RD**

SHEET
 C-915A
 SCALE N/A



REVISIONS	DESCRIPTION

DATE	BY

SIGNAL POLE AND CABINET LOCATIONS

INTERSECTION	INTERSECTION QUADRANTS	
	SIGNAL POLE	CABINET
SIGNAL CABINET AND SIGNAL POLE FOR RADIO/GPS UNIT INSTALLATION ON DIFFERENT CORNER		
15 NORTH BEAUREGARD STREET AND FILLMORE AVENUE*	NORTH MEDIAN	NE

* Beaugard Street is considered as N-S roadway facility for the design

- COMMUNICATIONS DIAGRAM NOTES:**
1. DIAGRAM REFLECTS CONFIGURATION, EQUIPMENT, AND CONNECTIVITY FOR NORTH BEAUREGARD STREET AND FILLMORE AVENUE.
 2. THE CONTRACTOR SHALL COORDINATE WITH THE CITY OF ALEXANDRIA TRAFFIC NETWORK ENGINEER FOR CONNECTING TSP EQUIPMENT TO THE COMMUNICATIONS NETWORK.
 3. TSP EQUIPMENT INSTALLATION IN THE TS-2 CABINET REQUIRES 9-PIN HARNESS CONNECTION TO D-PANEL. D-PANEL SHALL BE COMPATIBLE WITH NEW ATC CONTROLLER HARDWARE AND ASSOCIATED ASSEMBLIES.
 4. THE CONTRACTOR SHALL COORDINATE WITH DASH, WMATA, AND THE CITY FOR THE ESTABLISHMENT OF PRIORITY DETECTION ZONE AND BUS CONFIGURATION PRIOR TO THE CONFIGURATION.

TRANSIT SIGNAL PRIORITY (TSP) LOCATIONS

	INTERSECTION	DASH TSP	WMATA TSP	CABINET TYPE	CONTROLLER TYPE	FIRMWARE	PLATFORM LOCATIONS	TSP DIRECTION FOR INSTALLATION
1	SOUTH VAN DORN STREET AND EISENHOWER AVENUE	INSTALL	INSTALL	TS-1	SIEMENS m50	SEPAC 3.55	-	NORTHBOUND AND SOUTHBOUND
2	SOUTH VAN DORN STREET AND METRO ROAD (NEW INTERSECTION)	INSTALL	INSTALL	-	-	-	-	NORTHBOUND AND SOUTHBOUND
3	SOUTH VAN DORN STREET AND COURTNEY AVENUE	INSTALL	INSTALL	TS-1	SIEMENS m50	SEPAC 3.55	-	NORTHBOUND AND SOUTHBOUND
4	SOUTH VAN DORN STREET AND PICKETT STREET	INSTALL	INSTALL	TS-2	SIEMENS m50	SEPAC 3.55	FAR-SIDE	NORTHBOUND AND SOUTHBOUND
5	SOUTH VAN DORN STREET AND VAN DORN PLAZA	INSTALL	INSTALL	TS-1	SIEMENS m50	SEPAC 3.55	FAR-SIDE	NORTHBOUND AND SOUTHBOUND
6	SOUTH VAN DORN STREET AND STEVENSON AVENUE*	INSTALL	INSTALL	TS-2	SIEMENS m50	SEPAC 3.55	NEAR-SIDE	NORTHBOUND AND SOUTHBOUND
7	NORTH VAN DORN STREET AND HOLMES RUN PARKWAY	INSTALL	INSTALL	TS-1	SIEMENS m50	SEPAC 3.55	NB NEAR-SIDE/ SB FAR-SIDE	SOUTHBOUND ONLY
8	NORTH BEAUREGARD STREET AND READING AVENUE***	INSTALL	INSTALL	TS-1	SIEMENS m50	SEPAC 3.55	NB NEAR-SIDE/ SB FAR-SIDE	NORTHBOUND AND SOUTHBOUND
9	NORTH BEAUREGARD STREET AND NORTH HIGHVIEW LANE	INSTALL	INSTALL	TS-2	SIEMENS m50	SEPAC 3.55	NB NEAR-SIDE/ SB FAR-SIDE	NORTHBOUND AND SOUTHBOUND
10	NORTH BEAUREGARD STREET AND MARK CENTER DRIVE	INSTALL	INSTALL	ATC	SIEMENS m50	SEPAC 3.55	NB NEAR-SIDE/ SB FAR-SIDE	NORTHBOUND AND SOUTHBOUND
11	NORTH BEAUREGARD STREET AND SEMINARY ROAD*^	INSTALL	MAINTAIN EXISTING	TS-2	SIEMENS m60	SEPAC 3.55	-	NORTHBOUND AND SOUTHBOUND
12	NORTH BEAUREGARD STREET AND WEST BRADDOCK ROAD#	INSTALL	MAINTAIN EXISTING	TS-2	SIEMENS m50	SEPAC 3.55	NB NEAR-SIDE/ SB FAR-SIDE	SOUTHBOUND ONLY
13	NORTH BEAUREGARD STREET AND RAYBURN AVENUE*	INSTALL	MAINTAIN EXISTING	TS-2	SIEMENS m50	SEPAC 3.55	FAR-SIDE	NORTHBOUND AND SOUTHBOUND
14	SEMINARY ROAD AND MARK CENTER AVENUE*	INSTALL	MAINTAIN EXISTING	TS-2	SIEMENS m60	SEPAC 3.55	-	NORTHBOUND AND SOUTHBOUND
15	NORTH BEAUREGARD STREET AND FILLMORE AVENUE*	INSTALL	MAINTAIN EXISTING	TS-2	SIEMENS m50	SEPAC 3.55	FAR-SIDE	NORTHBOUND AND SOUTHBOUND

* Existing preemption/priority equipment does not accommodate DASH buses
 ** Existing preemption/priority equipment not in use; recommend removal of existing TSP equipment
 ^ Existing phase selector proposed to be upgraded to multimode model; maintain existing cellular antenna and modem
 # Existing cabinet to be replaced with new cabinet

GENERAL NOTES:

1. THE CONTRACTOR SHALL FURNISH AND INSTALL THE PROPOSED RADIO/GPS UNIT AND CABLE, CELLULAR ANTENNA, IN-CABINET EQUIPMENT AND ALL ASSOCIATED HARDWARE FOR A FULLY FUNCTIONAL TSP SYSTEM. THE CITY OF ALEXANDRIA, PRIOR TO CONSTRUCTION, SHALL VERIFY THE LOCATIONS PROPOSED FOR TRANSIT SIGNAL PRIORITY EQUIPMENT. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THIS VERIFICATION WITH THE CITY OF ALEXANDRIA PRIOR TO INSTALLATION.
2. COORDINATE WITH DASH FOR SYSTEM INTEGRATION WHERE APPLICABLE. FOR DASH COORDINATION ITEMS, CONTACT MARTIN BARNA AT MARTIN.BARNA@ALEXANDRIAVA.GOV.
3. COORDINATE WITH WMATA FOR SYSTEM INTEGRATION WHERE APPLICABLE. FOR WMATA COORDINATION ITEMS, CONTACT ANIKWENZE OGBUE AT AOGBUE@WMATA.COM.
4. THE CONTRACTOR SHALL NOTIFY THE CITY IF EXISTING CONDUIT CAPACITY AND/OR ROUTING DOES NOT EXIST FOR THE PROPOSED TSP RADIO/GPS CABLE ROUTING.

90% DESIGN PHASE



CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

REVISIONS	DESCRIPTION
DATE	BY

ALEXANDRIA PROJECT NO.:	110104122
DATE OF PLAN ISSUANCE:	N/A
CONSULTANT PROJECT ID.:	N/A
DESIGNED BY:	ADG DATE: 7/12/24
DRAWN BY:	ADG DATE: 7/12/24
CHECKED BY:	BRL DATE: 7/12/24
APPROVED BY:	BRL DATE: 7/12/24


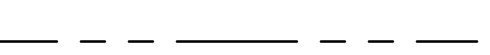

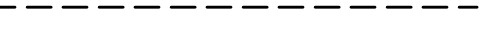





WEST END TRANSITWAY – PHASE 1 IMPROVEMENTS

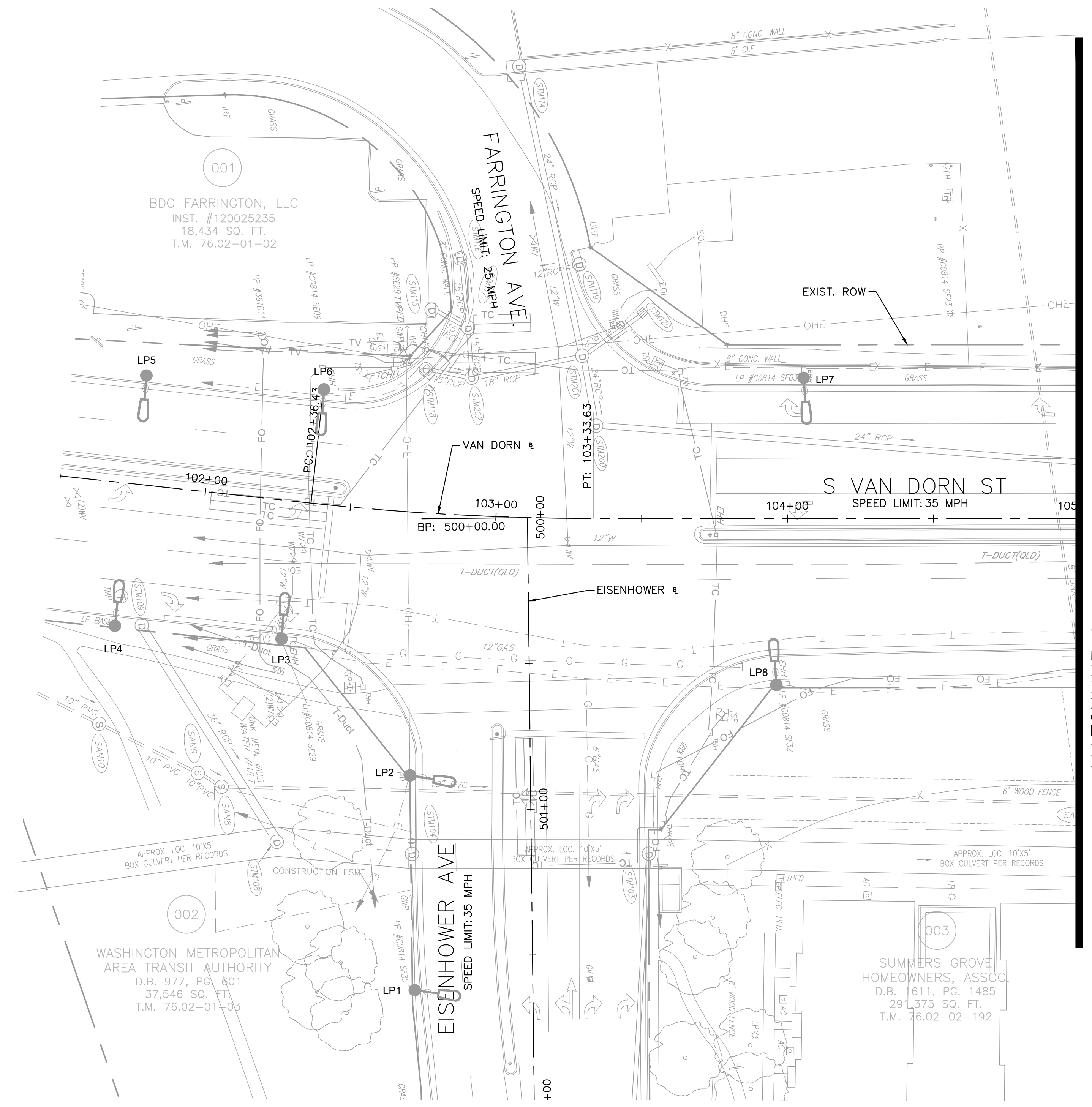
TRANSIT SIGNAL PRIORITY (TSP) LOCATIONS

Plotted By: Agnew, Price Sheet Set: West End Transitway - Phase 1 Layout: C-1001 LIGHTING PLAN September 05, 2024 01:38:57pm \\nvafp01\at_nvaf2\NVA_Transist\10104122_West End Transitway Design\CADD\PlanSheets\LIGHTING PLAN VAN DORN.dwg

NOTES:
 1. NO LIGHTING WORK THIS SHEET

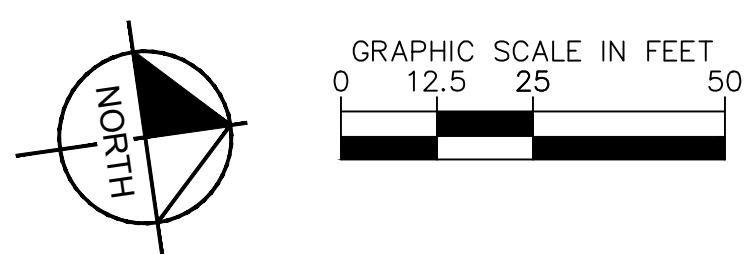
LEGEND:

	PROPOSED ACORN LED ON NEW LIGHT POLE		PROP. RIGHT OF WAY
	EXISTING ACORN LED ON EXISTING LIGHT POLE		TEMP. CONST. EASEMENT
	EXISTING COBRA LED ON EXISTING LIGHT POLE		EXISTING RIGHT OF WAY
	EXISTING DOUBLE COBRA LED ON EXISTING LIGHT POLE		
	EXISTING COBRA LED TO BE REMOVED		
	PROPOSED COBRA LED ON PROPOSED LIGHT POLE		



MATCHLINE STA. 105+00 SEE SHEET C-1002

LIGHT POLE LABEL	POLE TYPE	MOUNTING HEIGHT	CHAIN	STN	OFFSET (FEET)	DIRECTION (NORTH/SOUTH)
LP1	EXISTING COBRA LED ON EXISTING LIGHT POLE	EXISTING	S. VAN DORN ST	EX	EX	SOUTH
LP2	EXISTING COBRA LED ON EXISTING LIGHT POLE	EXISTING	S. VAN DORN ST	EX	EX	SOUTH
LP3	EXISTING COBRA LED ON EXISTING LIGHT POLE	EXISTING	S. VAN DORN ST	EX	EX	SOUTH
LP4	EXISTING COBRA LED ON EXISTING LIGHT POLE	EXISTING	S. VAN DORN ST	EX	EX	SOUTH
LP5	EXISTING COBRA LED ON EXISTING LIGHT POLE	EXISTING	S. VAN DORN ST	EX	EX	NORTH
LP6	EXISTING COBRA LED ON EXISTING LIGHT POLE	EXISTING	S. VAN DORN ST	EX	EX	NORTH
LP7	EXISTING COBRA LED ON EXISTING LIGHT POLE	EXISTING	S. VAN DORN ST	EX	EX	NORTH
LP8	EXISTING COBRA LED ON EXISTING LIGHT POLE	EXISTING	S. VAN DORN ST	EX	EX	SOUTH



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

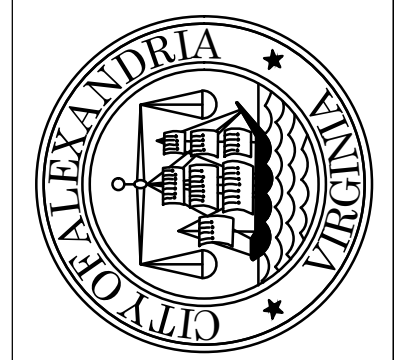
90% DESIGN PHASE

LIGHTING PLAN - S VAN DORN STREET AT EISENHOWER AVENUE

SHEET
 C-1001
 SCALE 1" = 25'

REVISIONS	DATE	DESCRIPTION

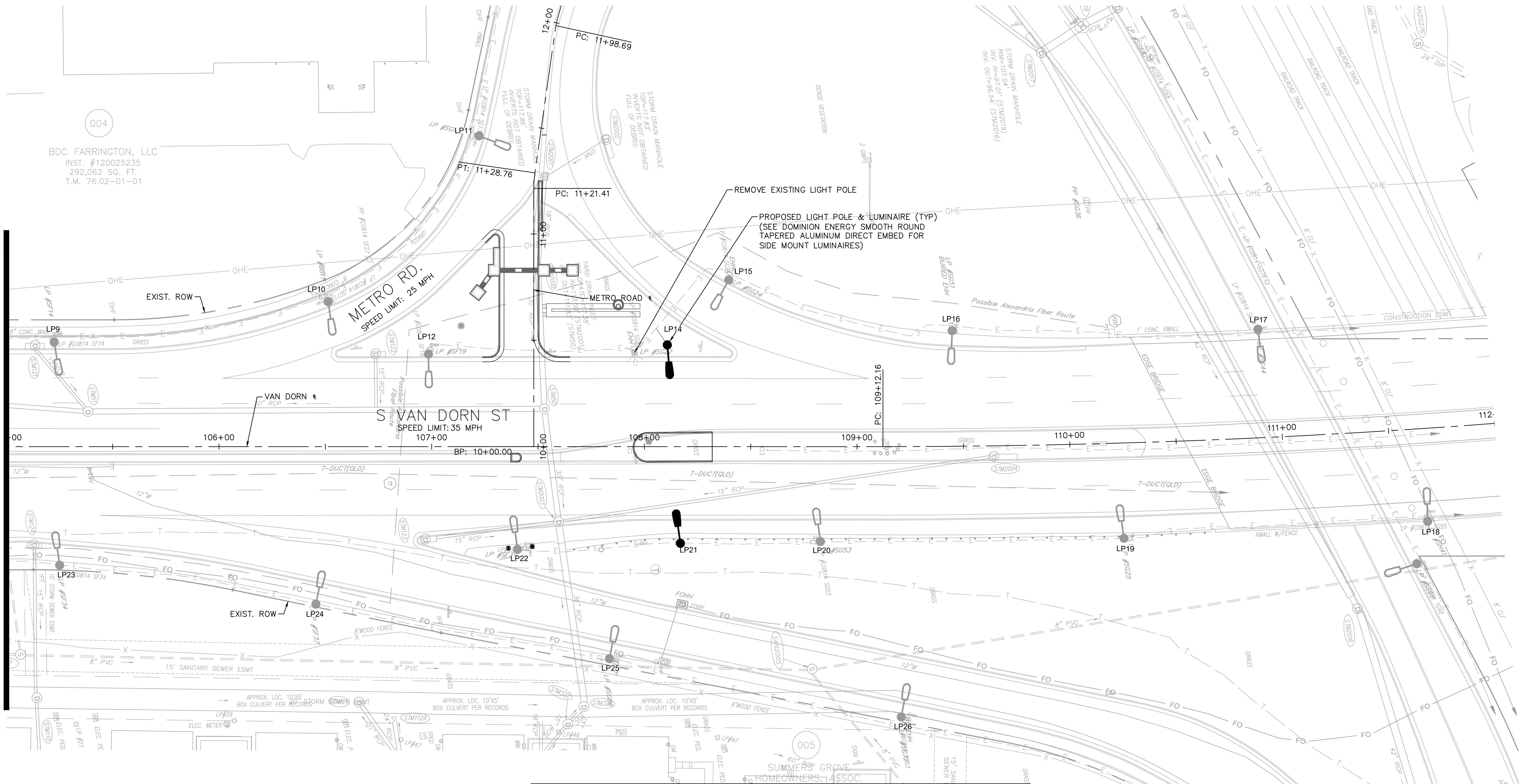
ALEXANDRIA PROJECT NO.: 110104122
 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: KAP DATE: 4/5/24
 DRAWN BY: KAP DATE: 4/5/24
 CHECKED BY: EJD DATE: 4/5/24
 APPROVED BY: _____ DATE: _____



CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

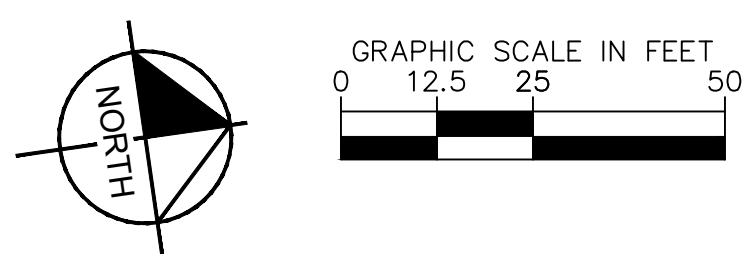
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MATCHLINE STA. 105+00 SEE SHEET C-1001



LIGHT POLE LABEL	POLE TYPE	MOUNTING HEIGHT	CHAIN	STN	OFFSET (FEET)	DIRECTION (NORTH/SOUTH)
LP9	EXISTING COBRA LED ON EXISTING LIGHT POLE	EXISTING	S. VAN DORN ST	EX	EX	NORTH
LP10	EXISTING COBRA LED ON EXISTING LIGHT POLE	EXISTING	S. VAN DORN ST	EX	EX	NORTH
LP11	EXISTING COBRA LED ON EXISTING LIGHT POLE	EXISTING	S. VAN DORN ST	EX	EX	NORTH
LP12	EXISTING COBRA LED ON EXISTING LIGHT POLE	EXISTING	S. VAN DORN ST	EX	EX	NORTH
LP13	NOT USED					
LP14	PROPOSED COBRA LED ON PROPOSED LIGHT POLE	25'	S. VAN DORN ST	108+10.69	54.07	NORTH
LP15	EXISTING COBRA LED ON EXISTING LIGHT POLE	EXISTING	S. VAN DORN ST	EX	EX	NORTH
LP16	EXISTING COBRA LED ON EXISTING LIGHT POLE	EXISTING	S. VAN DORN ST	EX	EX	NORTH
LP17	EXISTING COBRA LED ON EXISTING LIGHT POLE	EXISTING	S. VAN DORN ST	EX	EX	NORTH
LP18	EXISTING COBRA LED ON EXISTING LIGHT POLE	EXISTING	S. VAN DORN ST	EX	EX	SOUTH
LP19	EXISTING COBRA LED ON EXISTING LIGHT POLE	EXISTING	S. VAN DORN ST	EX	EX	SOUTH
LP20	EXISTING COBRA LED ON EXISTING LIGHT POLE	EXISTING	S. VAN DORN ST	EX	EX	SOUTH
LP21	PROPOSED COBRA LED ON PROPOSED LIGHT POLE	25'	S. VAN DORN ST	108+16.29	41.78	SOUTH
LP22	EXISTING COBRA LED ON EXISTING LIGHT POLE	EXISTING	S. VAN DORN ST	EX	EX	SOUTH
LP23	EXISTING COBRA LED ON EXISTING LIGHT POLE	EXISTING	S. VAN DORN ST	EX	EX	SOUTH
LP24	EXISTING COBRA LED ON EXISTING LIGHT POLE	EXISTING	S. VAN DORN ST	EX	EX	SOUTH
LP25	EXISTING COBRA LED ON EXISTING LIGHT POLE	EXISTING	S. VAN DORN ST	EX	EX	SOUTH
LP26	EXISTING COBRA LED ON EXISTING LIGHT POLE	EXISTING	S. VAN DORN ST	EX	EX	SOUTH
LP27	EXISTING COBRA LED ON EXISTING LIGHT POLE	EXISTING	S. VAN DORN ST	EX	EX	SOUTH

- LEGEND:**
- PROPOSED ACORN LED ON NEW LIGHT POLE
 - EXISTING ACORN LED ON EXISTING LIGHT POLE
 - EXISTING COBRA LED ON EXISTING LIGHT POLE
 - EXISTING DOUBLE COBRA LED ON EXISTING LIGHT POLE
 - EXISTING COBRA LED TO BE REMOVED
 - PROPOSED COBRA LED ON PROPOSED LIGHT POLE
 - PROP. RIGHT OF WAY
 - TEMP. CONST. EASEMENT
 - EXISTING RIGHT OF WAY



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

LIGHTING PLAN - S VAN DORN STREET AT METRO ROAD

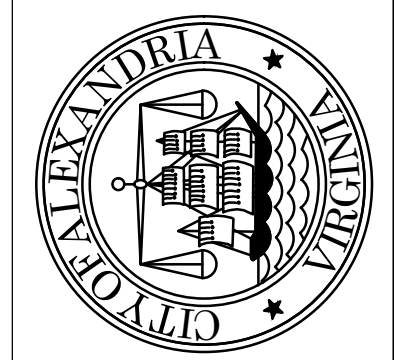
SHEET C-1002
 SCALE 1" = 25'

REVISIONS

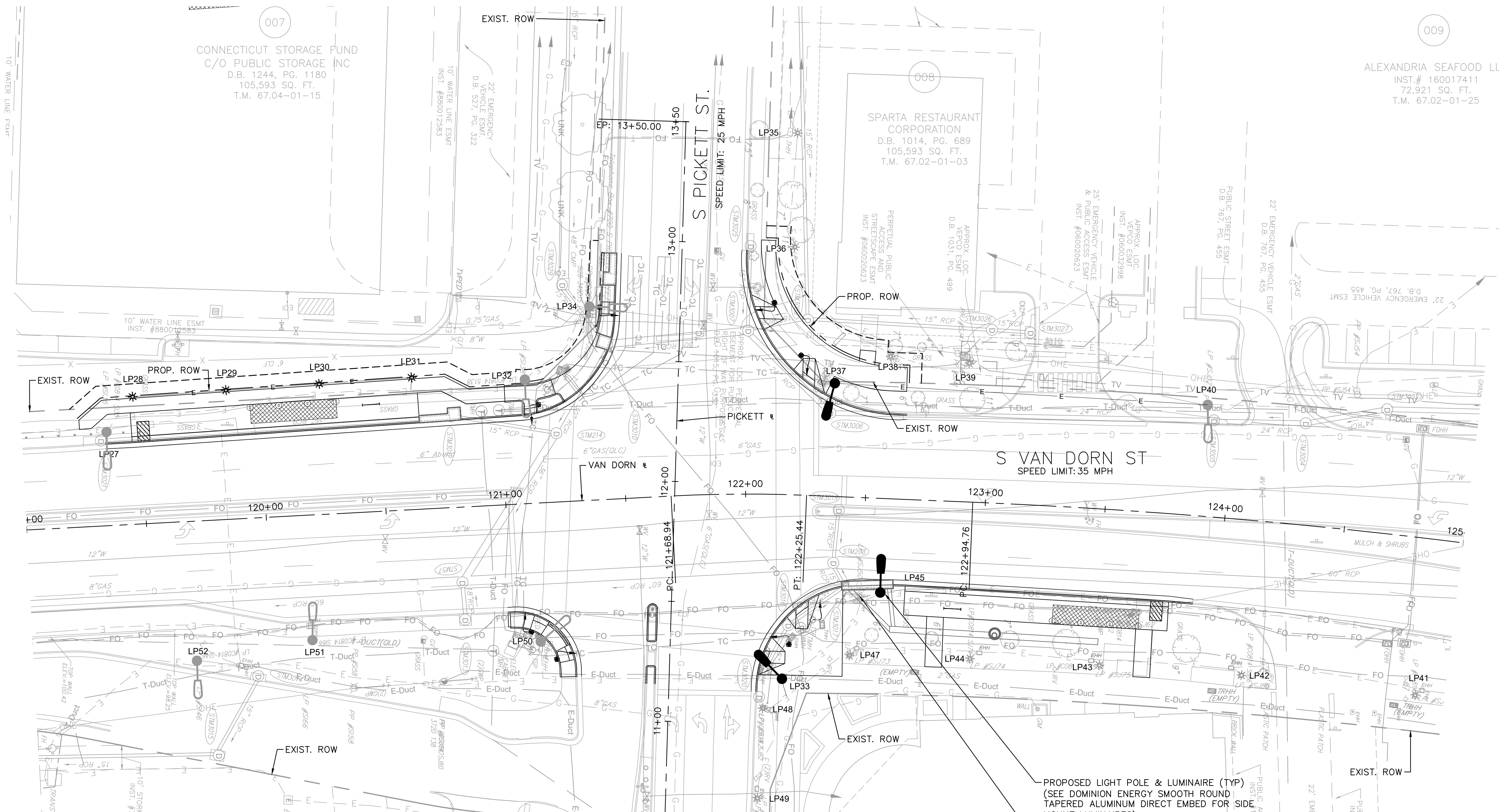
NO.	DATE	DESCRIPTION

CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

ALEXANDRIA PROJECT NO.: 110104122
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 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: KAP DATE: 4/5/24
 DRAWN BY: KAP DATE: 4/5/24
 CHECKED BY: EJD DATE: 4/5/24
 APPROVED BY: _____ DATE: _____



Plotted By: Agnew, Price Sheet Set: West End Transitway - Phase 1 Layout: C-1003 LIGHTING PLAN September 05, 2024 01:39:12pm \\vwp01\AT_NV\2\NVA_Transist\10104122_West End Transitway Design\CADD\PlanSheets\LIGHTING PLAN VAN DORN.dwg

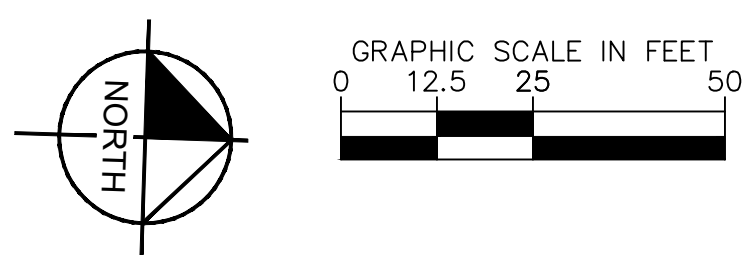


LIGHT POLE LABEL	POLE TYPE	MOUNTING HEIGHT	CHAIN	STN	OFFSET (FEET)	DIRECTION (NORTH/SOUTH)
LP27	EXISTING COBRA LED ON EXISTING LIGHT POLE	EXISTING	S. VAN DORN ST	EX	EX	NORTH
LP28	PROPOSED ACORN LIGHT ON PROPOSED LIGHT POLE	14'	S. VAN DORN ST	119+47.00	55.16	NORTH
LP29	PROPOSED ACORN LIGHT ON PROPOSED LIGHT POLE	14'	S. VAN DORN ST	119+85.98	55.85	NORTH
LP30	PROPOSED ACORN LIGHT ON PROPOSED LIGHT POLE	14'	S. VAN DORN ST	120+24.92	56.46	NORTH
LP31	PROPOSED ACORN LIGHT ON PROPOSED LIGHT POLE	14'	S. VAN DORN ST	120+63.56	57.11	NORTH
LP32	EXISTING COBRA LED ON EXISTING LIGHT POLE	EXISTING	S. VAN DORN ST	EX	EX	NORTH
LP33	PROPOSED COBRA LED ON PROPOSED LIGHT POLE	25'	S. VAN DORN ST	122+14.65	76.58	SOUTH
LP34	EXISTING COBRA LED ON EXISTING LIGHT POLE	EXISTING	S. VAN DORN ST	EX	EX	NORTH
LP35	EXISTING ACORN LIGHT ON EXISTING LIGHT POLE	EXISTING	S. VAN DORN ST	EX	EX	NORTH
LP36	EXISTING ACORN LIGHT ON EXISTING LIGHT POLE	EXISTING	S. VAN DORN ST	EX	EX	NORTH
LP37	PROPOSED COBRA LED ON PROPOSED LIGHT POLE	25'	S. VAN DORN ST	122+35.27	47.15	NORTH
LP38	EXISTING ACORN LIGHT ON EXISTING LIGHT POLE	EXISTING	S. VAN DORN ST	EX	EX	NORTH
LP39	EXISTING ACORN LIGHT ON EXISTING LIGHT POLE	EXISTING	S. VAN DORN ST	EX	EX	NORTH
LP40	EXISTING COBRA LED ON EXISTING LIGHT POLE	EXISTING	S. VAN DORN ST	EX	EX	NORTH
LP41	EXISTING ACORN LIGHT ON EXISTING LIGHT POLE	EXISTING	S. VAN DORN ST	EX	EX	SOUTH
LP42	EXISTING ACORN LIGHT ON EXISTING LIGHT POLE	EXISTING	S. VAN DORN ST	EX	EX	SOUTH
LP43	EXISTING ACORN LIGHT ON EXISTING LIGHT POLE	EXISTING	S. VAN DORN ST	EX	EX	SOUTH
LP44	EXISTING ACORN LIGHT ON EXISTING LIGHT POLE	EXISTING	S. VAN DORN ST	EX	EX	SOUTH
LP45	PROPOSED COBRA LED ON PROPOSED LIGHT POLE	25'	S. VAN DORN ST	122+61.18	39.26	SOUTH
LP46	NOT USED					
LP47	EXISTING ACORN LIGHT ON EXISTING LIGHT POLE	EXISTING	S. VAN DORN ST	EX	EX	SOUTH
LP48	EXISTING ACORN LIGHT ON EXISTING LIGHT POLE	EXISTING	S. VAN DORN ST	EX	EX	SOUTH
LP49	EXISTING ACORN LIGHT ON EXISTING LIGHT POLE	EXISTING	S. VAN DORN ST	EX	EX	SOUTH
LP50	EXISTING COBRA LED ON EXISTING LIGHT POLE	EXISTING	S. VAN DORN ST	EX	EX	SOUTH
LP51	EXISTING COBRA LED ON EXISTING LIGHT POLE	EXISTING	S. VAN DORN ST	EX	EX	SOUTH
LP52	EXISTING COBRA LED ON EXISTING LIGHT POLE	EXISTING	S. VAN DORN ST	EX	EX	SOUTH

- LEGEND:**
- PROPOSED ACORN LED ON NEW LIGHT POLE
 - EXISTING ACORN LED ON EXISTING LIGHT POLE
 - EXISTING COBRA LED ON EXISTING LIGHT POLE
 - EXISTING DOUBLE COBRA LED ON EXISTING LIGHT POLE
 - EXISTING COBRA LED TO BE REMOVED
 - PROPOSED COBRA LED ON PROPOSED LIGHT POLE
 - PROP. RIGHT OF WAY
 - TEMP. CONST. EASEMENT
 - EXISTING RIGHT OF WAY

PROPOSED LIGHT POLE & LUMINAIRE (TYP)
(SEE DOMINION ENERGY SMOOTH ROUND
TAPERED ALUMINUM DIRECT EMBED FOR SIDE
MOUNT LUMINAIRES)

REMOVE EXISTING LIGHT POLE



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

LIGHTING PLAN - S VAN DORN STREET AT S PICKETT STREET

SHEET C-1003
SCALE 1" = 25'

90% DESIGN PHASE

REVISIONS	DATE	DESCRIPTION

ALEXANDRIA PROJECT NO.: 110104122
DATE OF PLAN ISSUANCE: N/A
CONSULTANT PROJECT ID: N/A
DESIGNED BY: KAP DATE: 4/5/24
DRAWN BY: KAP DATE: 4/5/24
CHECKED BY: EJD DATE: 4/5/24
APPROVED BY: _____ DATE: _____



CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

007
CONNECTICUT STORAGE FUND
C/O PUBLIC STORAGE INC
D.B. 1244, PG. 1180
105,593 SQ. FT.
T.M. 67.04-01-15

EXIST. ROW
10" WATER LINE ESMT
INST. #880012583
22" EMERGENCY VEHICLE ESMT
D.B. 527, PG. 322
INST. #880012583

S PICKETT ST.
SPEED LIMIT: 25 MPH

008
SPARTA RESTAURANT CORPORATION
D.B. 1014, PG. 689
105,593 SQ. FT.
T.M. 67.02-01-03

S VAN DORN ST
SPEED LIMIT: 35 MPH

009
ALEXANDRIA SEAFOOD LLC
INST. # 160017411
72,921 SQ. FT.
T.M. 67.02-01-25

010
PICKETT SQUARE R, LLC
INST. #110022590 =TA
102,282 SQ. FT.
T.M. 67.02-02-19

Plotted By: Agnew, Price Sheet Set: West End Transitway - Phase 1 Layout: C-1004 LIGHTING PLAN - September 05, 2024 01:39:23pm \\vwp01\AT_NVA2\NVA_T\Transit\10104122_West_End_Transitway_Design\CADD\PlanSheets\LIGHTING PLAN VAN DORN.dwg

012

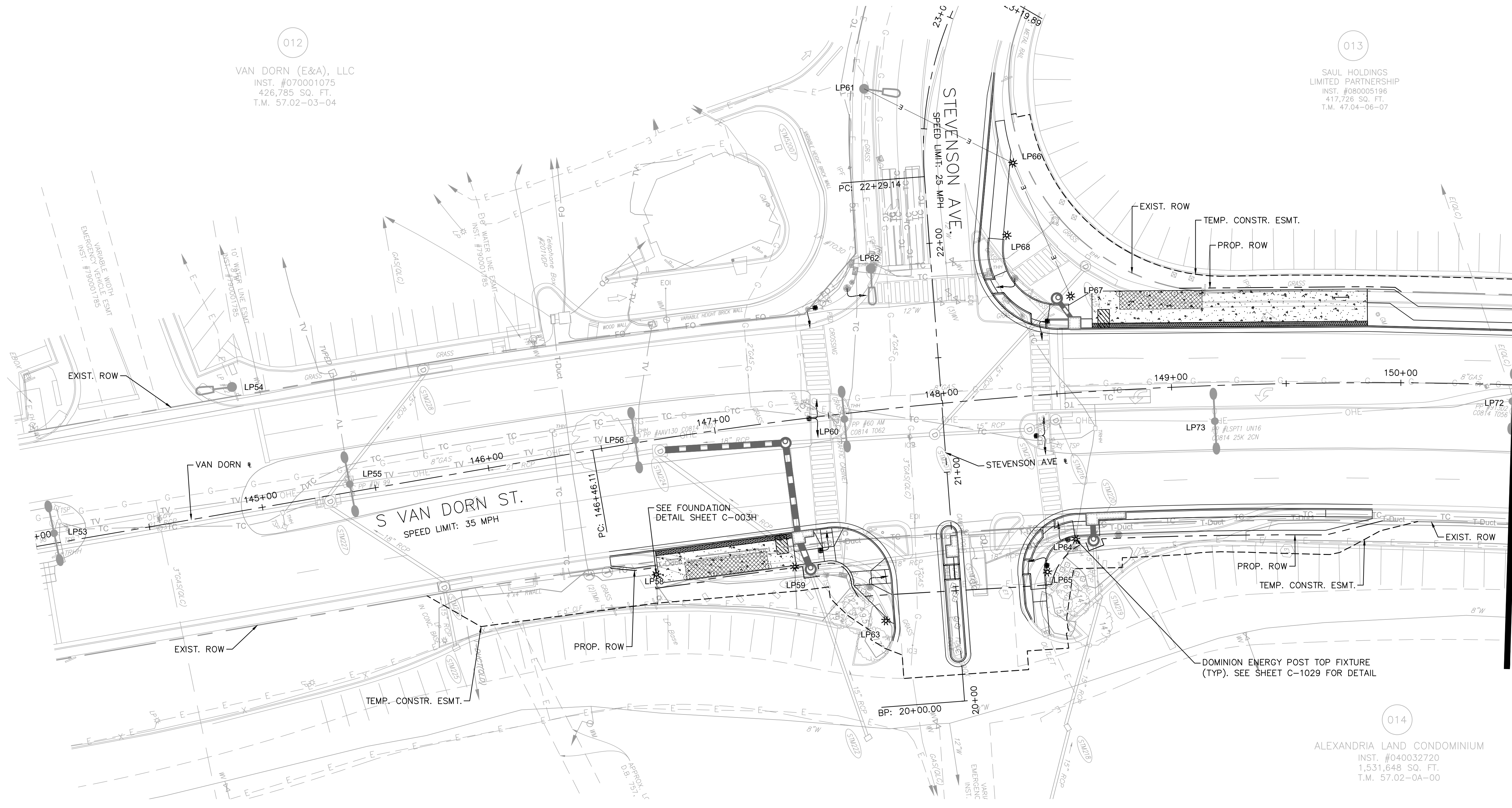
VAN DORN (E&A), LLC
 INST. #070001075
 426,785 SQ. FT.
 T.M. 57.02-03-04

013

SAUL HOLDINGS LIMITED PARTNERSHIP
 INST. #080005196
 417,726 SQ. FT.
 T.M. 47.04-06-07

014

ALEXANDRIA LAND CONDOMINIUM
 INST. #040032720
 1,531,648 SQ. FT.
 T.M. 57.02-0A-00

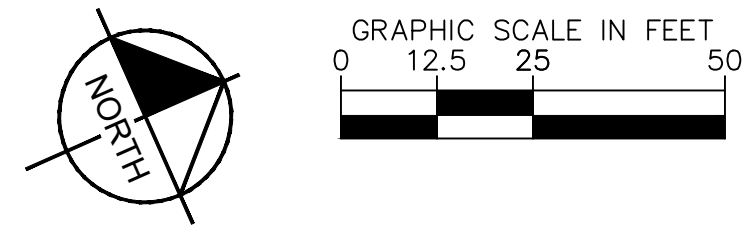


MATCHLINE STA. 150+50 SEE SHEET C-1005

LEGEND:

	PROPOSED ACORN LED ON NEW LIGHT POLE		PROP. RIGHT OF WAY
	EXISTING ACORN LED ON EXISTING LIGHT POLE		TEMP. CONST. EASEMENT
	EXISTING COBRA LED ON EXISTING LIGHT POLE		EXISTING RIGHT OF WAY
	EXISTING DOUBLE COBRA LED ON EXISTING LIGHT POLE		
	EXISTING COBRA LED TO BE REMOVED		
	PROPOSED COBRA LED ON PROPOSED LIGHT POLE		

LIGHT POLE LABEL	POLE TYPE	MOUNTING HEIGHT	CHAIN	STN	OFFSET (FEET)	DIRECTION (NORTH/SOUTH)
LP53	EXISTING DUAL COBRA LED ON EXISTING LIGHT POLE	EXISTING	S. VAN DORN ST	EX	EX	NORTH
LP54	EXISTING COBRA LED ON EXISTING LIGHT POLE	EXISTING	S. VAN DORN ST	EX	EX	NORTH
LP55	EXISTING DUAL COBRA LED ON EXISTING LIGHT POLE	EXISTING	S. VAN DORN ST	EX	EX	NORTH
LP56	EXISTING DUAL COBRA LED ON EXISTING LIGHT POLE	EXISTING	S. VAN DORN ST	EX	EX	NORTH
LP57	NOT USED					
LP58	PROPOSED ACORN LIGHT ON PROPOSED LIGHT POLE	14'	S. VAN DORN ST	146+64.36	55.11	SOUTH
LP59	PROPOSED ACORN LIGHT ON PROPOSED LIGHT POLE	14'	S. VAN DORN ST	147+26.70	63.63	SOUTH
LP60	EXISTING COBRA LED ON EXISTING LIGHT POLE	EXISTING	S. VAN DORN ST	EX	EX	SOUTH
LP61	EXISTING COBRA LED ON EXISTING LIGHT POLE	EXISTING	S. VAN DORN ST	EX	EX	NORTH
LP62	EXISTING COBRA LED ON EXISTING LIGHT POLE	EXISTING	S. VAN DORN ST	EX	EX	NORTH
LP63	PROPOSED ACORN LIGHT ON PROPOSED LIGHT POLE	14'	S. VAN DORN ST	147+64.77	91.74	SOUTH
LP64	PROPOSED ACORN LIGHT ON PROPOSED LIGHT POLE	14'	S. VAN DORN ST	148+53.88	63.79	SOUTH
LP65	PROPOSED ACORN LIGHT ON PROPOSED LIGHT POLE	14'	S. VAN DORN ST	148+40.12	77.10	SOUTH
LP66	PROPOSED ACORN LIGHT ON PROPOSED LIGHT POLE	14'	S. VAN DORN ST	148+30.24	105.26	NORTH
LP67	PROPOSED ACORN LIGHT ON PROPOSED LIGHT POLE	14'	S. VAN DORN ST	148+64.94	29.64	NORTH
LP68	PROPOSED ACORN LIGHT ON PROPOSED LIGHT POLE	14'	S. VAN DORN ST	148+33.63	70.48	NORTH
LP69	NOT USED					
LP70	NOT USED					
LP71	NOT USED					
LP72	EXISTING DUAL COBRA LED ON EXISTING LIGHT POLE	EXISTING	S. VAN DORN ST	EX	EX	SOUTH
LP73	EXISTING DUAL COBRA LED ON EXISTING LIGHT POLE	EXISTING	S. VAN DORN ST	EX	EX	SOUTH



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

REVISIONS

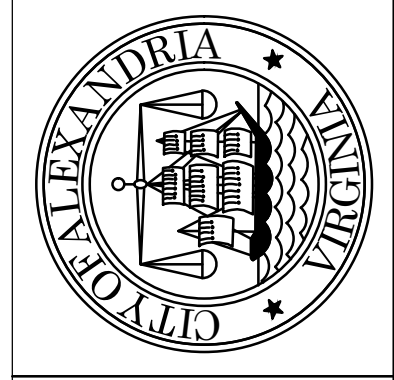
DATE	BY	DESCRIPTION

ALEXANDRIA PROJECT NO.: 110104122
 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: KAP DATE: 4/5/24
 DRAWN BY: KAP DATE: 4/5/24
 CHECKED BY: EJD DATE: 4/5/24
 APPROVED BY: DATE:

LIGHTING PLAN - S VAN DORN STREET AT STEVENSON AVENUE

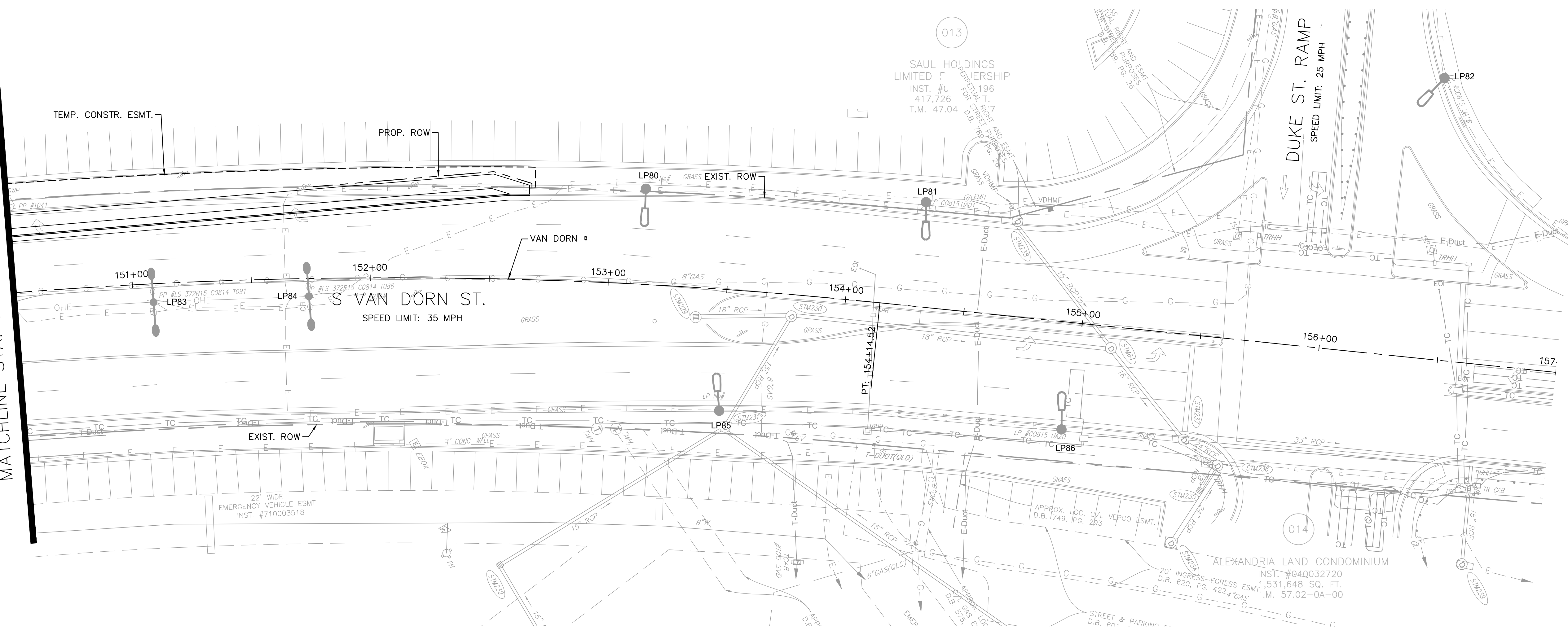
SHEET C-1004
 SCALE 1" = 25'

CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313



Plotted By: Agnew, Price Sheet Set: West End Transitway - Phase 1 Layout: C-1005 LIGHTING PLAN September 05, 2024 01:39:29pm \\vwdp01\AT_NV2\NVA_Transit\110104122_West_End_Transitway_Design\CADD\PlanSheets\Lighting\PLAN VAN DORN.dwg

MATCHLINE STA. 150+50 SEE SHEET C-1004

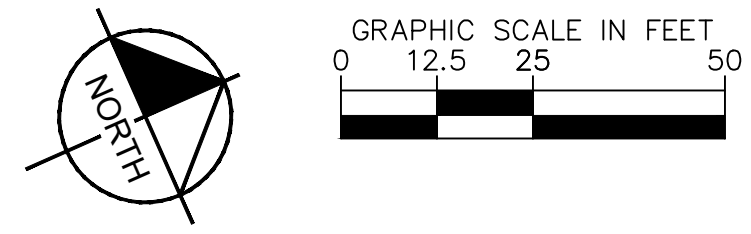


NOTES:
1. NO LIGHTING WORK THIS SHEET

LEGEND:

	PROPOSED ACORN LED ON NEW LIGHT POLE		PROP. RIGHT OF WAY
	EXISTING ACORN LED ON EXISTING LIGHT POLE		TEMP. CONST. EASEMENT
	EXISTING COBRA LED ON EXISTING LIGHT POLE		EXISTING RIGHT OF WAY
	EXISTING DOUBLE COBRA LED ON EXISTING LIGHT POLE		
	EXISTING COBRA LED TO BE REMOVED		
	PROPOSED COBRA LED ON PROPOSED LIGHT POLE		

LIGHT POLE LABEL	POLE TYPE	MOUNTING HEIGHT	CHAIN	STN	OFFSET (FEET)	DIRECTION (NORTH/SOUTH)
LP80	EXISTING COBRA LED ON EXISTING LIGHT POLE	EXISTING	S. VAN DORN ST	EX	EX	NORTH
LP81	EXISTING COBRA LED ON EXISTING LIGHT POLE	EXISTING	S. VAN DORN ST	EX	EX	NORTH
LP82	EXISTING COBRA LED ON EXISTING LIGHT POLE	EXISTING	S. VAN DORN ST	EX	EX	NORTH
LP83	EXISTING DUAL COBRA LED ON EXISTING LIGHT POLE	EXISTING	S. VAN DORN ST	EX	EX	SOUTH
LP84	EXISTING DUAL COBRA LED ON EXISTING LIGHT POLE	EXISTING	S. VAN DORN ST	EX	EX	SOUTH
LP85	EXISTING COBRA LED ON EXISTING LIGHT POLE	EXISTING	S. VAN DORN ST	EX	EX	SOUTH
LP86	EXISTING COBRA LED ON EXISTING LIGHT POLE	EXISTING	S. VAN DORN ST	EX	EX	SOUTH



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

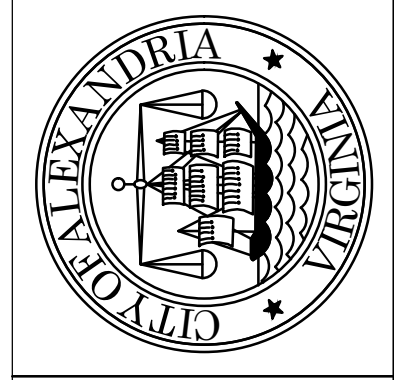
ALEXANDRIA PROJECT NO.: 110104122

DATE OF PLAN ISSUANCE:	N/A
CONSULTANT PROJECT ID:	N/A
DESIGNED BY:	KAP DATE: 4/5/24
DRAWN BY:	KAP DATE: 4/5/24
CHECKED BY:	EJD DATE: 4/5/24
APPROVED BY:	DATE:

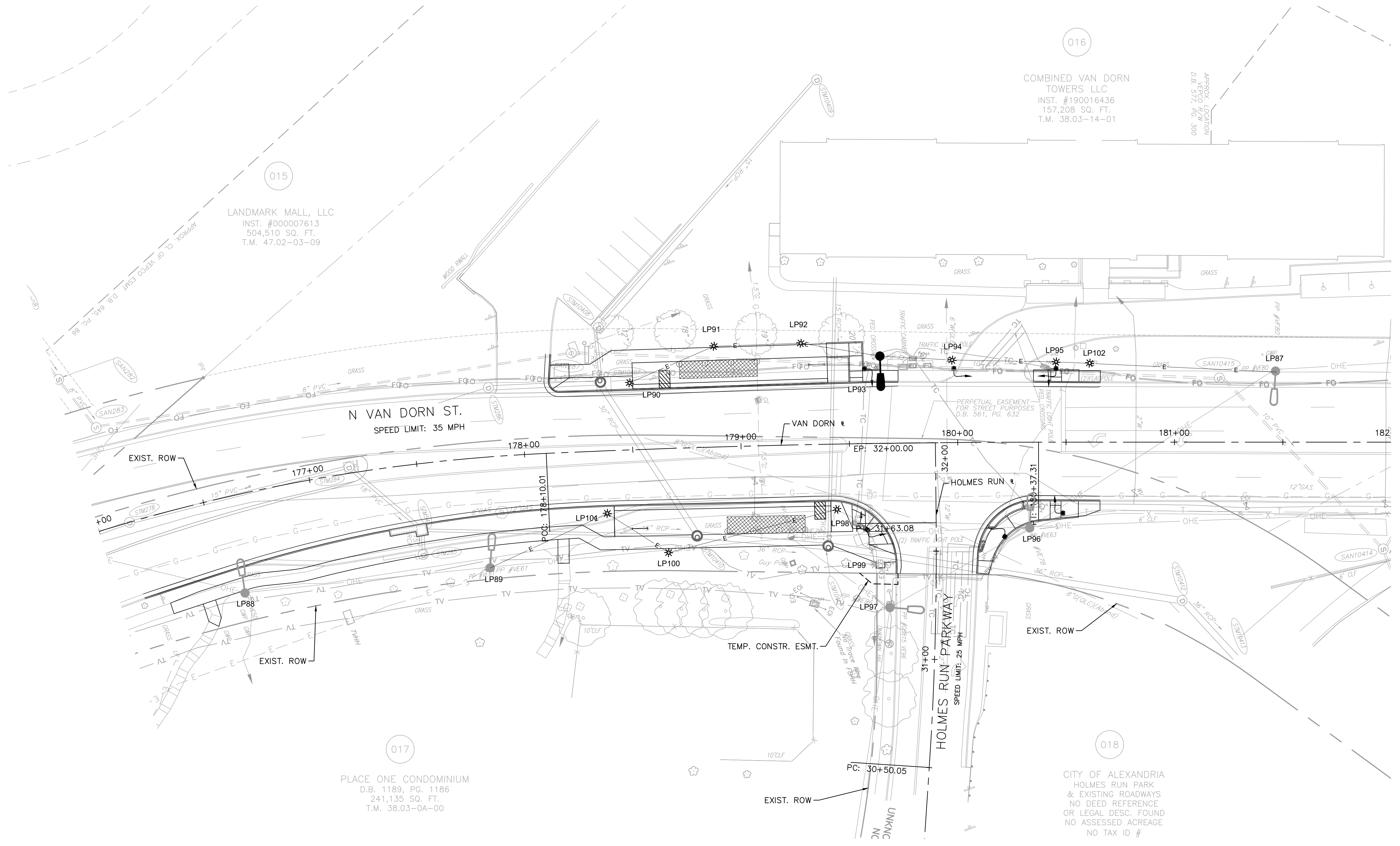
LIGHTING PLAN - S VAN DORN STREET AT DUKE STREET RAMP

SHEET
C-1005
SCALE 1" = 25'

CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313



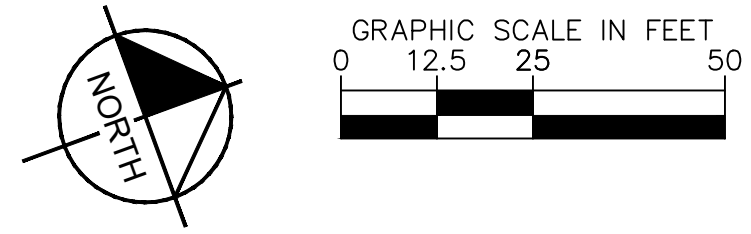
Plotted By: Agnew, Price Sheet Set: West End Transitway - Phase 1 Layout: C-1006 LIGHTING PLAN September 05, 2024 01:39:38pm \\vodp01\AT_NVA2\NVA2\Transit\10104122\West End Transitway Design\CADD\PlanSheets\LIGHTING PLAN VAN DORN.dwg



LEGEND:

	PROPOSED ACORN LED ON NEW LIGHT POLE		PROP. RIGHT OF WAY
	EXISTING ACORN LED ON EXISTING LIGHT POLE		TEMP. CONST. EASEMENT
	EXISTING COBRA LED ON EXISTING LIGHT POLE		EXISTING RIGHT OF WAY
	EXISTING DOUBLE COBRA LED ON EXISTING LIGHT POLE		
	EXISTING COBRA LED TO BE REMOVED		
	PROPOSED COBRA LED ON PROPOSED LIGHT POLE		

LIGHT POLE LABEL	POLE TYPE	MOUNTING HEIGHT	CHAIN	STN	OFFSET (FEET)	DIRECTION (NORTH/SOUTH)
LP87	EXISTING COBRA LED ON EXISTING LIGHT POLE	EXISTING	S. VAN DORN ST	EX	EX	NORTH
LP88	EXISTING COBRA LED ON EXISTING LIGHT POLE	EXISTING	S. VAN DORN ST	EX	EX	SOUTH
LP89	EXISTING COBRA LED ON EXISTING LIGHT POLE	EXISTING	S. VAN DORN ST	EX	EX	SOUTH
LP90	PROPOSED ACORN LIGHT ON PROPOSED LIGHT POLE	14'	S. VAN DORN ST	178+49.65	30.91	NORTH
LP91	PROPOSED ACORN LIGHT ON PROPOSED LIGHT POLE	14'	S. VAN DORN ST	178+88.81	46.49	NORTH
LP92	PROPOSED ACORN LIGHT ON PROPOSED LIGHT POLE	14'	S. VAN DORN ST	179+28.55	46.85	NORTH
LP93	PROPOSED COBRA LIGHT ON PROPOSED LIGHT POLE	25'	S. VAN DORN ST	179+64.13	1.42	NORTH
LP94	PROPOSED ACORN LIGHT ON PROPOSED LIGHT POLE	14'	S. VAN DORN ST	179+97.77	38.05	NORTH
LP95	PROPOSED ACORN LIGHT ON PROPOSED LIGHT POLE	14'	S. VAN DORN ST	180+45.48	37.04	NORTH
LP96	EXISTING COBRA LED ON EXISTING LIGHT POLE	EXISTING	S. VAN DORN ST	EX	EX	SOUTH
LP97	EXISTING COBRA LED ON EXISTING LIGHT POLE	EXISTING	S. VAN DORN ST	EX	EX	SOUTH
LP98	PROPOSED ACORN LIGHT ON PROPOSED LIGHT POLE	14'	S. VAN DORN ST	179+43.68	30.17	SOUTH
LP99	EXISTING COBRA LED ON EXISTING LIGHT POLE	EXISTING	S. VAN DORN ST	EX	EX	SOUTH
LP100	PROPOSED ACORN LIGHT ON PROPOSED LIGHT POLE	14'	S. VAN DORN ST	178+64.79	48.02	SOUTH
LP101	PROPOSED ACORN LIGHT ON PROPOSED LIGHT POLE	14'	S. VAN DORN ST	178+37.06	28.99	SOUTH
LP102	PROPOSED ACORN LIGHT ON PROPOSED LIGHT POLE	14'	S. VAN DORN ST	180+60.85	36.47	NORTH



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE



CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

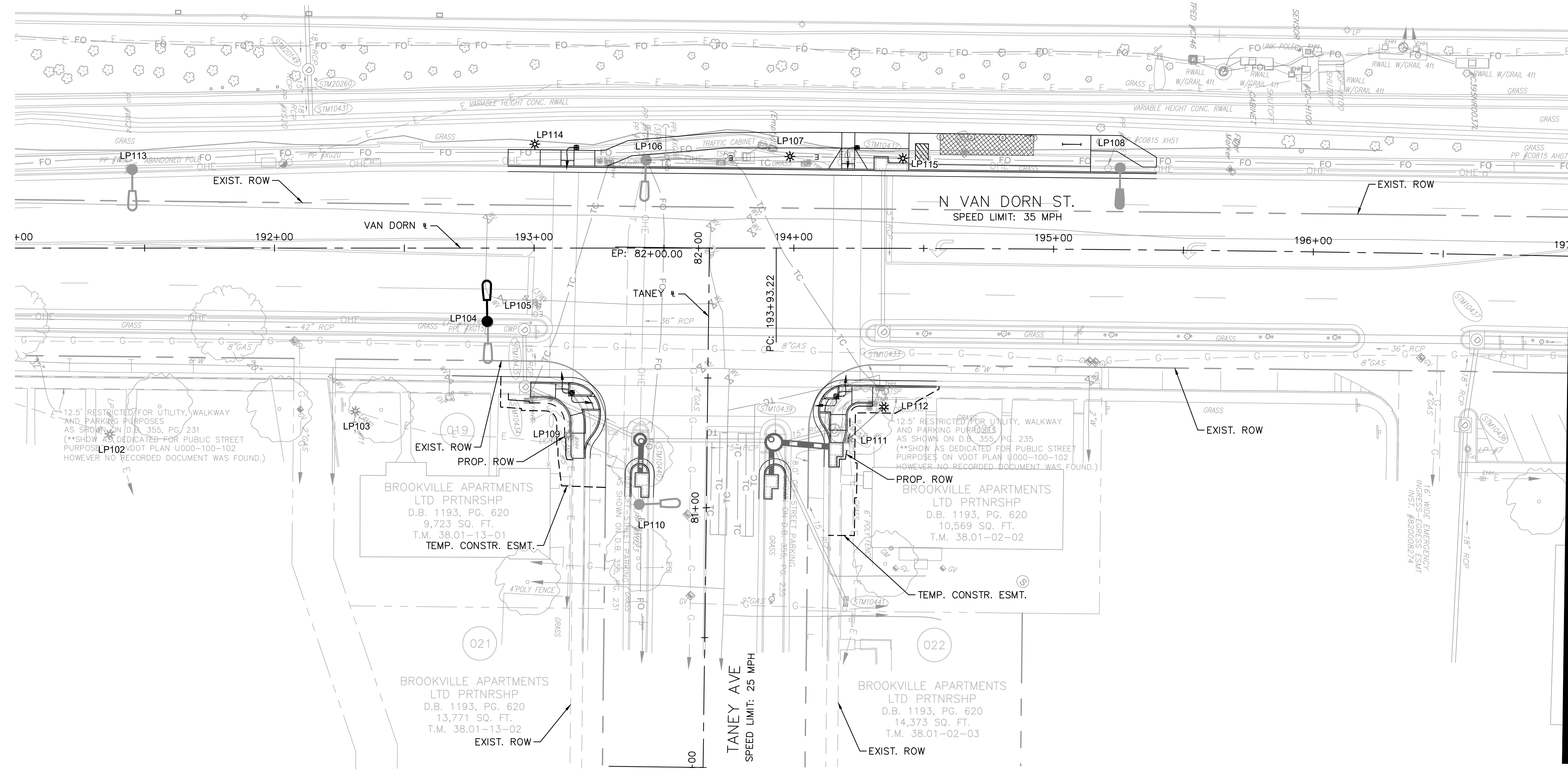
REVISIONS	DESCRIPTION
DATE	BY

ALEXANDRIA PROJECT NO.:	110104122
DATE OF PLAN ISSUANCE:	N/A
CONSULTANT PROJECT ID.:	N/A
DESIGNED BY:	KAP DATE: 4/5/24
DRAWN BY:	KAP DATE: 4/5/24
CHECKED BY:	EJD DATE: 4/5/24
APPROVED BY:	DATE:

LIGHTING PLAN - N VAN DORN STREET AT HOLMES RUN PARKWAY

SHEET C-1006
 SCALE 1" = 25'

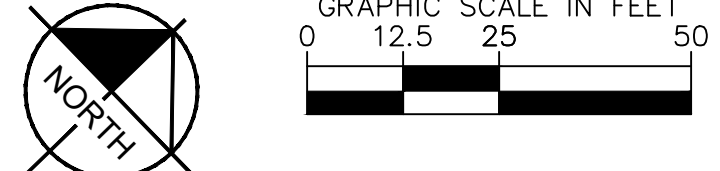
Plotted By: Agnew, Price Sheet Set: West End Transitway - Phase 1 Layout: C-1007 LIGHTING PLAN - N VAN DORN STREET AT TANEY AVENUE September 05, 2024 01:39:44pm \\nvrp01\AT_LVA2\NVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\LIGHTING PLAN_VAN DORN.dwg



LEGEND:

	PROPOSED ACORN LED ON NEW LIGHT POLE		PROP. RIGHT OF WAY
	EXISTING ACORN LED ON EXISTING LIGHT POLE		TEMP. CONST. EASEMENT
	EXISTING COBRA LED ON EXISTING LIGHT POLE		EXISTING RIGHT OF WAY
	EXISTING DOUBLE COBRA LED ON EXISTING LIGHT POLE		
	EXISTING COBRA LED TO BE REMOVED		
	PROPOSED COBRA LED ON PROPOSED LIGHT POLE		

LIGHT POLE LABEL	POLE TYPE	MOUNTING HEIGHT	CHAIN	STN	OFFSET (FEET)	DIRECTION (NORTH/SOUTH)
LP102	EXISTING ACORN LIGHT ON EXISTING LIGHT POLE	EXISTING	S. VAN DORN ST	EX	EX	SOUTH
LP103	EXISTING ACORN LIGHT ON EXISTING LIGHT POLE	EXISTING	S. VAN DORN ST	EX	EX	SOUTH
LP104	EXISTING COBRA LED ON EXISTING LIGHT POLE	EXISTING	S. VAN DORN ST	EX	EX	SOUTH
LP105	PROPOSED COBRA LED ON EXISTING LIGHT POLE	25'	S. VAN DORN ST	192+82.26	28.65	SOUTH
LP106	EXISTING COBRA LED ON EXISTING LIGHT POLE	EXISTING	S. VAN DORN ST	EX	EX	NORTH
LP107	PROPOSED ACORN LIGHT ON PROPOSED LIGHT POLE	14'	S. VAN DORN ST	193+98.55	35.23	NORTH
LP108	EXISTING COBRA LED ON EXISTING LIGHT POLE	EXISTING	S. VAN DORN ST	EX	EX	NORTH
LP109	EXISTING ACORN LIGHT ON EXISTING LIGHT POLE	EXISTING	S. VAN DORN ST	EX	EX	SOUTH
LP110	EXISTING COBRA LED ON EXISTING LIGHT POLE	EXISTING	S. VAN DORN ST	EX	EX	SOUTH
LP111	EXISTING ACORN LIGHT ON EXISTING LIGHT POLE	EXISTING	S. VAN DORN ST	EX	EX	SOUTH
LP112	PROPOSED ACORN LIGHT ON PROPOSED LIGHT POLE	14'	S. VAN DORN ST	194+34.71	61.13	SOUTH
LP113	EXISTING COBRA LED ON EXISTING LIGHT POLE	EXISTING	S. VAN DORN ST	EX	EX	NORTH
LP114	PROPOSED ACORN LED ON EXISTING LIGHT POLE	14'	S. VAN DORN ST	193+00.25	40.02	NORTH
LP115	PROPOSED ACORN LED ON EXISTING LIGHT POLE	14'	S. VAN DORN ST	194+42.39	33.97	NORTH



MATCHLINE STA. 197+00 SEE SHEET C-1008

WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

LIGHTING PLAN - N VAN DORN STREET AT TANEY AVENUE

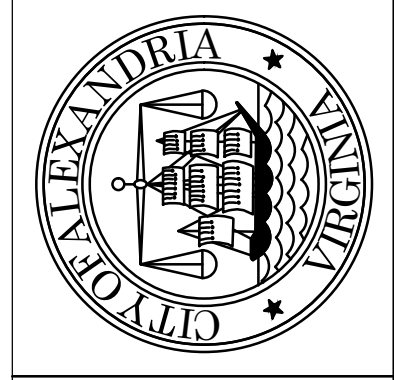
SHEET C-1007
SCALE 1" = 25'

90% DESIGN PHASE

CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

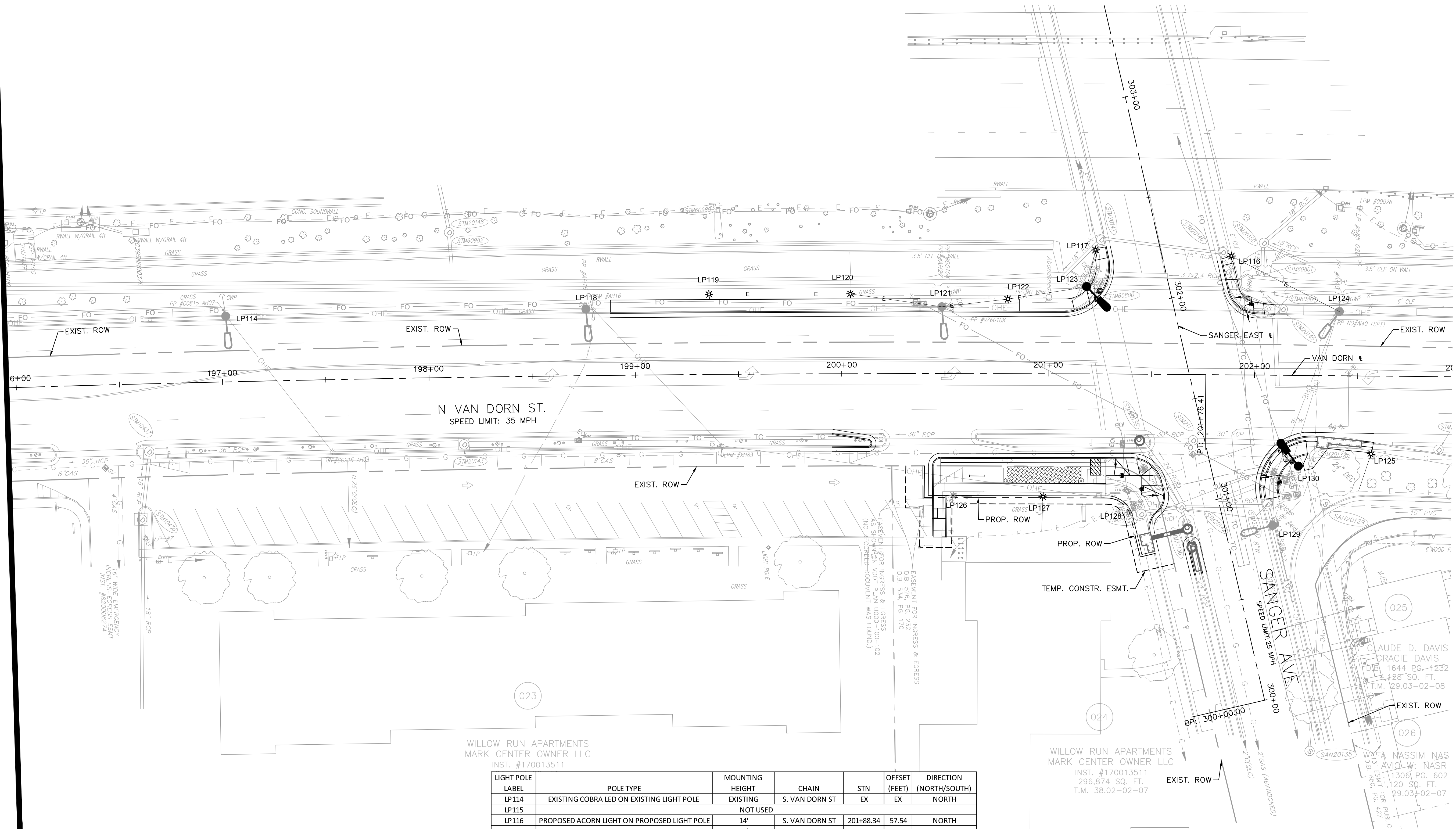
REVISIONS	DATE	DESCRIPTION

ALEXANDRIA PROJECT NO.: 110104122
 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: KAP DATE: 4/5/24
 DRAWN BY: KAP DATE: 4/5/24
 CHECKED BY: EJD DATE: 4/5/24
 APPROVED BY: _____ DATE: _____



Plotted By: Agnew, Price Sheet Set: West End Transitway - Phase 1 Layout: C-1008 LIGHTING PLAN - N VAN DORN STREET AT SANGER AVENUE September 05, 2024 01:39:53pm \\wvdfp01\AT_NVA2\NVA2\Transit\110104122_West End Transitway Design\CADD\PlanSheets\LIGHTING PLAN VAN DORN

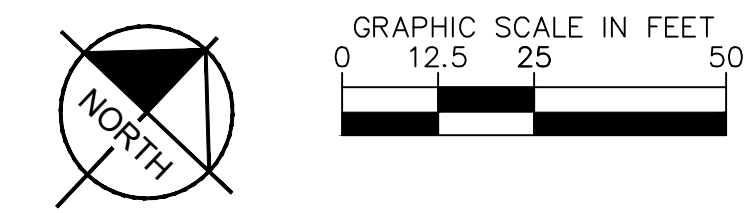
MATCHLINE STA. 197+00 SEE SHEET C-1007



LEGEND:

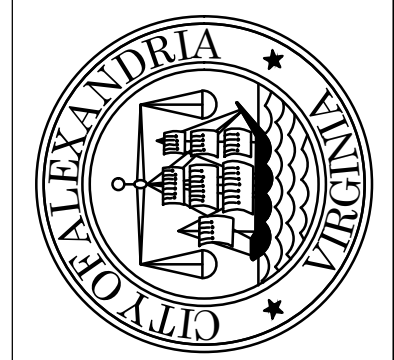
	PROPOSED ACORN LED ON NEW LIGHT POLE		PROP. RIGHT OF WAY
	EXISTING ACORN LED ON EXISTING LIGHT POLE		TEMP. CONST. EASEMENT
	EXISTING COBRA LED ON EXISTING LIGHT POLE		EXISTING RIGHT OF WAY
	EXISTING DOUBLE COBRA LED ON EXISTING LIGHT POLE		
	EXISTING COBRA LED TO BE REMOVED		
	PROPOSED COBRA LED ON PROPOSED LIGHT POLE		

LIGHT POLE LABEL	POLE TYPE	MOUNTING HEIGHT	CHAIN	STN	OFFSET (FEET)	DIRECTION (NORTH/SOUTH)
LP114	EXISTING COBRA LED ON EXISTING LIGHT POLE	EXISTING	S. VAN DORN ST	EX	EX	NORTH
LP115	NOT USED					
LP116	PROPOSED ACORN LIGHT ON PROPOSED LIGHT POLE	14'	S. VAN DORN ST	201+88.34	57.54	NORTH
LP117	PROPOSED ACORN LIGHT ON PROPOSED LIGHT POLE	14'	S. VAN DORN ST	201+22.66	60.07	NORTH
LP118	EXISTING COBRA LED ON EXISTING LIGHT POLE	EXISTING	S. VAN DORN ST	EX	EX	NORTH
LP119	PROPOSED ACORN LIGHT ON PROPOSED LIGHT POLE	14'	S. VAN DORN ST	199+36.17	36.48	NORTH
LP120	PROPOSED ACORN LIGHT ON PROPOSED LIGHT POLE	14'	S. VAN DORN ST	200+04.46	36.38	NORTH
LP121	EXISTING COBRA LED ON EXISTING LIGHT POLE	EXISTING	S. VAN DORN ST	EX	EX	NORTH
LP122	PROPOSED ACORN LIGHT ON PROPOSED LIGHT POLE	14'	S. VAN DORN ST	200+88.24	37.05	NORTH
LP123	PROPOSED COBRA LED ON EXISTING LIGHT POLE	25'	S. VAN DORN ST	201+18.30	42.12	NORTH
LP124	EXISTING COBRA LED ON EXISTING LIGHT POLE	EXISTING	S. VAN DORN ST	EX	EX	NORTH
LP125	NOT USED					
LP126	PROPOSED ACORN LIGHT ON PROPOSED LIGHT POLE	14'	S. VAN DORN ST	200+54.13	58.77	SOUTH
LP127	PROPOSED ACORN LIGHT ON PROPOSED LIGHT POLE	14'	S. VAN DORN ST	200+97.60	59.51	SOUTH
LP128	PROPOSED ACORN LIGHT ON PROPOSED LIGHT POLE	14'	S. VAN DORN ST	201+39.56	67.28	SOUTH
LP129	EXISTING COBRA LED ON EXISTING LIGHT POLE	EXISTING	S. VAN DORN ST	EX	EX	SOUTH
LP130	PROPOSED COBRA LED ON EXISTING LIGHT POLE	25'	S. VAN DORN ST	202+17.16	43.06	SOUTH



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE



CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

REVISIONS	DESCRIPTION
DATE	BY

ALEXANDRIA PROJECT NO.: 110104122
 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: KAP DATE: 4/5/24
 DRAWN BY: KAP DATE: 4/5/24
 CHECKED BY: EJD DATE: 4/5/24
 APPROVED BY: DATE:

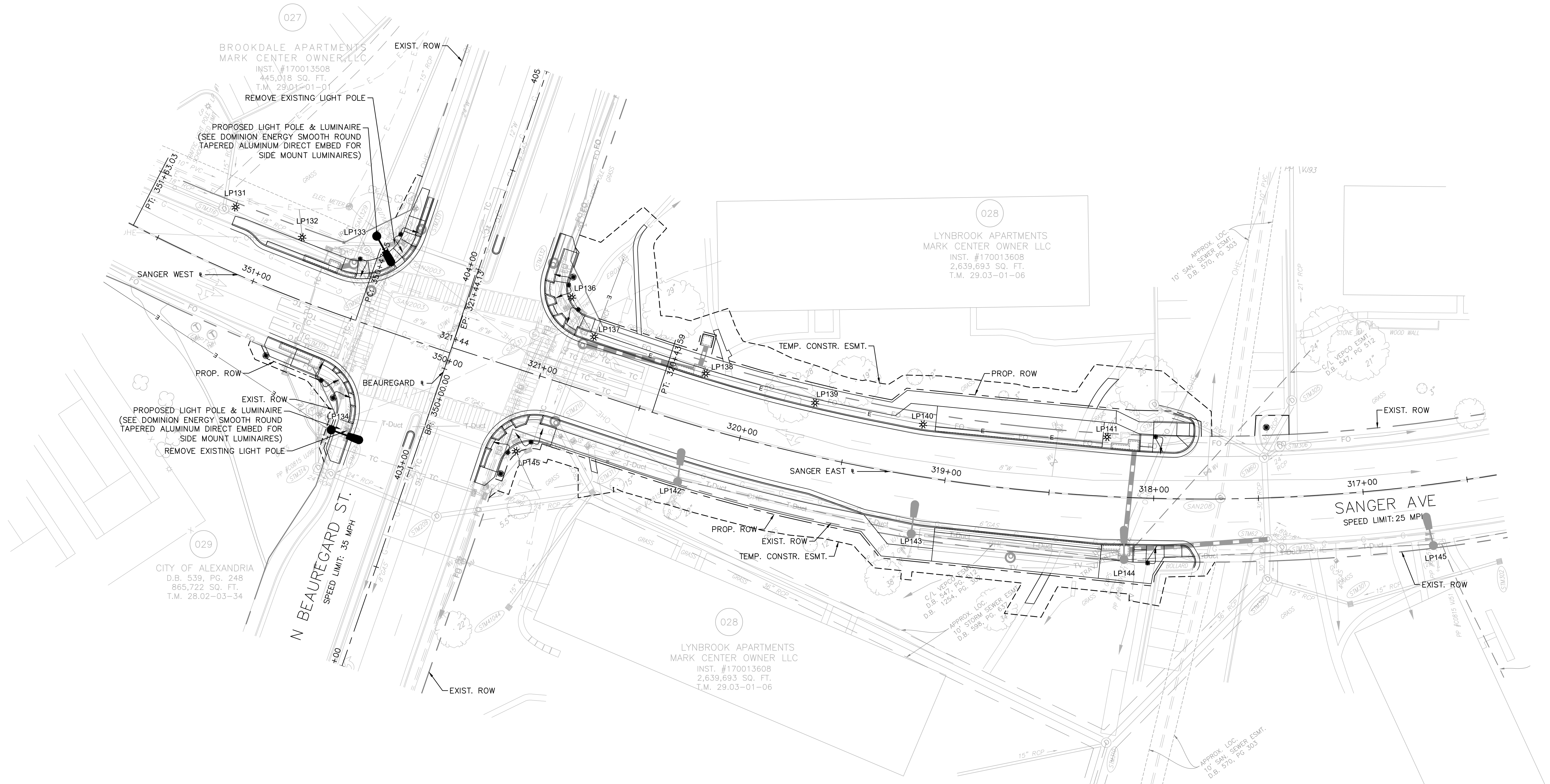
LIGHTING PLAN - N VAN DORN STREET AT SANGER AVENUE

SHEET C-1008
 SCALE 1" = 25'

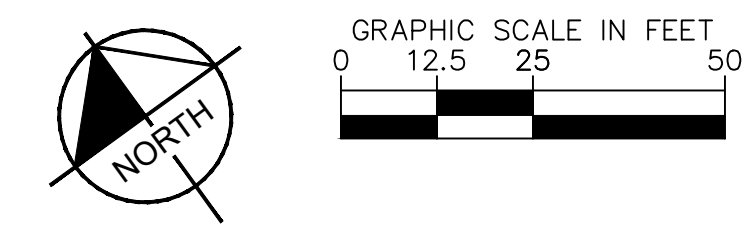
Plotted By: Agnew, Price Sheet: West End Transitway - Phase 1 Layout: C-1009 LIGHTING PLAN - N BEAUREGARD STREET AT SANGER AVENUE September 05, 2024 01:39:58pm \\nvwdp01\AT_NVA2\NVA2\Transit\110104122_West_End_Transitway_Design\CADD\PlanSheets\LIGHTING_PLAN.dwg

LEGEND:

	PROPOSED ACORN LED ON NEW LIGHT POLE		PROP. RIGHT OF WAY
	EXISTING ACORN LED ON EXISTING LIGHT POLE		TEMP. CONST. EASEMENT
	EXISTING COBRA LED ON EXISTING LIGHT POLE		EXISTING RIGHT OF WAY
	EXISTING DOUBLE COBRA LED ON EXISTING LIGHT POLE		
	EXISTING COBRA LED TO BE REMOVED		
	PROPOSED COBRA LED ON PROPOSED LIGHT POLE		



LIGHT POLE LABEL	POLE TYPE	MOUNTING HEIGHT	CHAIN	STN	OFFSET (FEET)	DIRECTION (NORTH/SOUTH)
LP131	PROPOSED ACORN LIGHT ON PROPOSED LIGHT POLE	14'	N. BEAUREGARD ST.	403+90.29	119.28	NORTH
LP132	PROPOSED ACORN LIGHT ON PROPOSED LIGHT POLE	14'	N. BEAUREGARD ST.	403+82.78	84.86	NORTH
LP133	PROPOSED COBRA LED ON PROPOSED LIGHT POLE	25'	N. BEAUREGARD ST.	403+99.30	50.98	NORTH
LP134	PROPOSED COBRA LED ON PROPOSED LIGHT POLE	25'	N. BEAUREGARD ST.	403+06.94	37.22	NORTH
LP135	NOT USED					
LP136	PROPOSED ACORN LIGHT ON PROPOSED LIGHT POLE	14'	N. BEAUREGARD ST.	404+01.99	46.35	SOUTH
LP137	PROPOSED ACORN LIGHT ON PROPOSED LIGHT POLE	14'	N. BEAUREGARD ST.	403+87.65	62.57	SOUTH
LP138	PROPOSED ACORN LIGHT ON PROPOSED LIGHT POLE	14'	N. BEAUREGARD ST.	403+88.47	118.71	SOUTH
LP139	PROPOSED ACORN LIGHT ON PROPOSED LIGHT POLE	14'	N. BEAUREGARD ST.	403+92.26	72.54	SOUTH
LP140	PROPOSED ACORN LIGHT ON PROPOSED LIGHT POLE	14'	N. BEAUREGARD ST.	403+99.26	224.61	SOUTH
LP141	PROPOSED ACORN LIGHT ON PROPOSED LIGHT POLE	14'	N. BEAUREGARD ST.	404+22.22	309.53	SOUTH
LP142	EXISTING COBRA LED ON EXISTING LIGHT POLE	EXISTING	N. BEAUREGARD ST.	EX	EX	SOUTH
LP143	EXISTING COBRA LED ON EXISTING LIGHT POLE	EXISTING	N. BEAUREGARD ST.	EX	EX	SOUTH
LP144	EXISTING COBRA LED ON EXISTING LIGHT POLE	EXISTING	N. BEAUREGARD ST.	EX	EX	SOUTH
LP145	PROPOSED ACORN LIGHT ON PROPOSED LIGHT POLE	14'	N. BEAUREGARD ST.	403+99.13	224.72	SOUTH



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS 90% DESIGN PHASE



CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

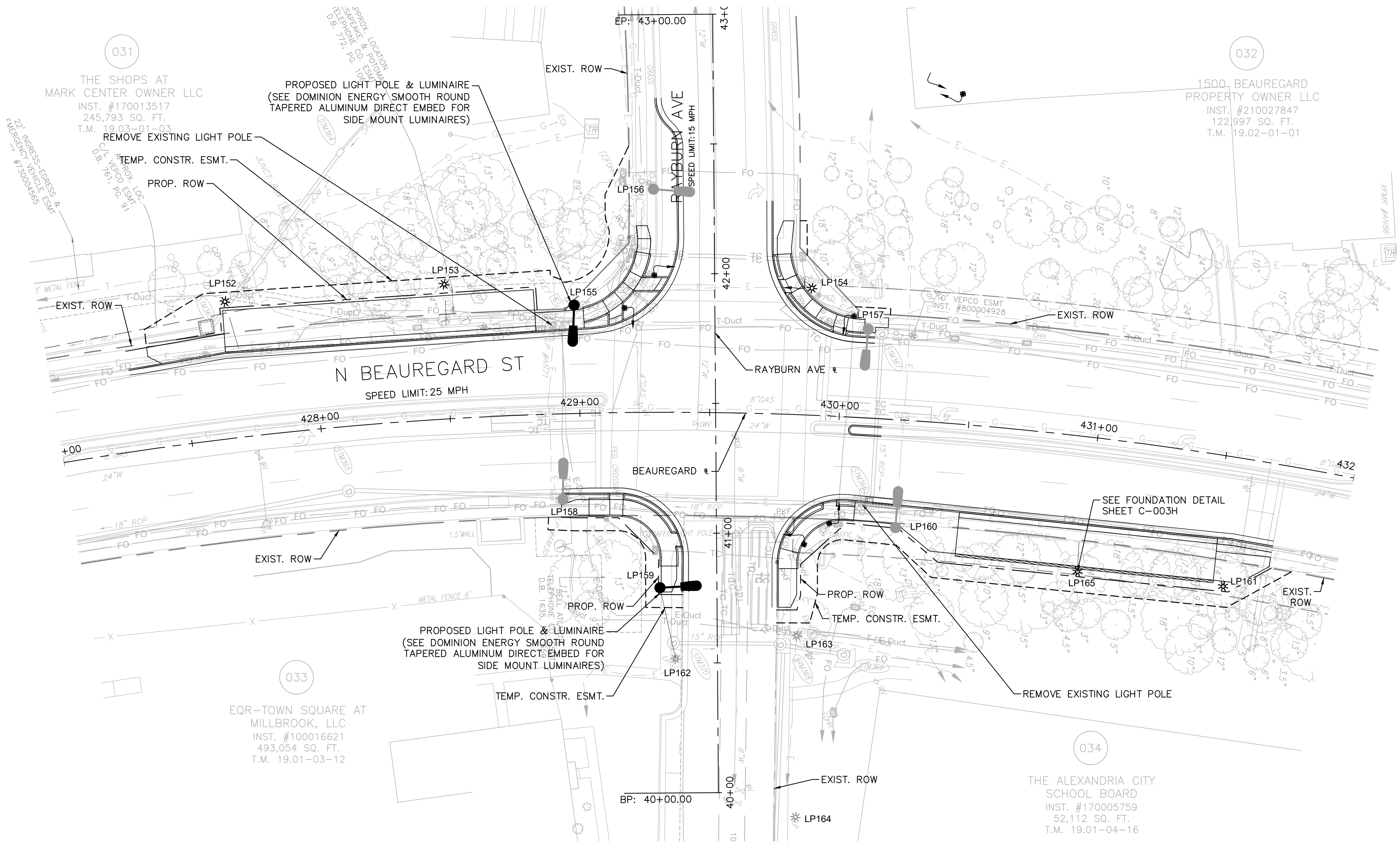
REVISIONS	DATE	DESCRIPTION

ALEXANDRIA PROJECT NO.: 110104122
 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: KAP DATE: 4/5/24
 DRAWN BY: KAP DATE: 4/5/24
 CHECKED BY: EJD DATE: 4/5/24
 APPROVED BY: _____ DATE: _____

LIGHTING PLAN - N BEAUREGARD STREET AT SANGER AVENUE

SHEET C-1009
 SCALE 1" = 25'

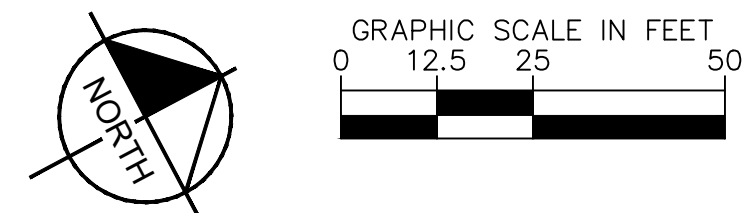
Plotted By: Agnew, Price Sheet Set: West End Transitway - Phase 1 Layout: C-1011 LIGHTING PLAN September 05, 2024 01:40:05pm \\svr01\at\NVA2\NVA_Traffic\10104122_West_End_Transitway_Design\CADD\PlanSheets\Lighting_Plan.dwg



LEGEND:

	PROPOSED ACORN LED ON NEW LIGHT POLE		PROP. RIGHT OF WAY
	EXISTING ACORN LED ON EXISTING LIGHT POLE		TEMP. CONST. EASEMENT
	EXISTING COBRA LED ON EXISTING LIGHT POLE		EXISTING RIGHT OF WAY
	EXISTING DOUBLE COBRA LED ON EXISTING LIGHT POLE		
	EXISTING COBRA LED TO BE REMOVED		
	PROPOSED COBRA LED ON PROPOSED LIGHT POLE		

LIGHT POLE LABEL	POLE TYPE	MOUNTING HEIGHT	CHAIN	STN	OFFSET (FEET)	DIRECTION (NORTH/SOUTH)
LP152	PROPOSED ACORN LIGHT ON PROPOSED LIGHT POLE	14'	N. BEAUREGARD ST.	427+69.99	46.69	NORTH
LP153	PROPOSED ACORN LIGHT ON PROPOSED LIGHT POLE	14'	N. BEAUREGARD ST.	428+50.63	45.57	NORTH
LP154	PROPOSED ACORN LIGHT ON PROPOSED LIGHT POLE	14'	N. BEAUREGARD ST.	429+87.57	48.95	NORTH
LP155	PROPOSED COBRA LED ON PROPOSED LIGHT POLE	25'	N. BEAUREGARD ST.	428+98.28	41.42	NORTH
LP156	EXISTING COBRA LED ON EXISTING LIGHT POLE	EXISTING	N. BEAUREGARD ST.	EX	EX	NORTH
LP157	EXISTING COBRA LED ON EXISTING LIGHT POLE	EXISTING	N. BEAUREGARD ST.	EX	EX	NORTH
LP158	EXISTING COBRA LED ON EXISTING LIGHT POLE	EXISTING	N. BEAUREGARD ST.	EX	EX	SOUTH
LP159	PROPOSED COBRA LED ON PROPOSED LIGHT POLE	25'	N. BEAUREGARD ST.	429+37.87	67.59	SOUTH
LP160	EXISTING COBRA LED ON EXISTING LIGHT POLE	EXISTING	N. BEAUREGARD ST.	EX	EX	SOUTH
LP161	PROPOSED ACORN LIGHT ON PROPOSED LIGHT POLE	14'	N. BEAUREGARD ST.	431+58.28	43.05	SOUTH
LP162	EXISTING ACORN LIGHT ON EXISTING LIGHT POLE	EXISTING	N. BEAUREGARD ST.	EX	EX	SOUTH
LP163	EXISTING ACORN LIGHT ON EXISTING LIGHT POLE	EXISTING	N. BEAUREGARD ST.	EX	EX	SOUTH
LP164	EXISTING ACORN LIGHT ON EXISTING LIGHT POLE	EXISTING	N. BEAUREGARD ST.	EX	EX	SOUTH
LP165	PROPOSED ACORN LIGHT ON PROPOSED LIGHT POLE	14'	N. BEAUREGARD ST.	430+98.33	52.06	SOUTH



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

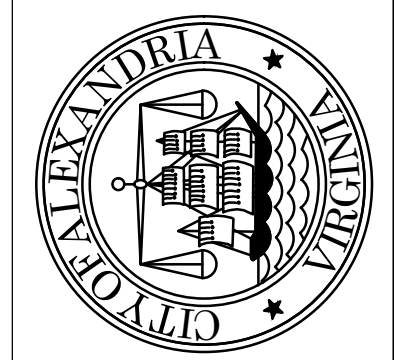
**LIGHTING PLAN - N
BEAUREGARD STREET AT
RAYBURN AVENUE**

SHEET
C-1011
SCALE 1" = 25'

REVISIONS	DATE	DESCRIPTION

ALEXANDRIA PROJECT NO.: 110104122
 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: KAP DATE: 4/5/24
 DRAWN BY: KAP DATE: 4/5/24
 CHECKED BY: EJD DATE: 4/5/24
 APPROVED BY: _____ DATE: _____

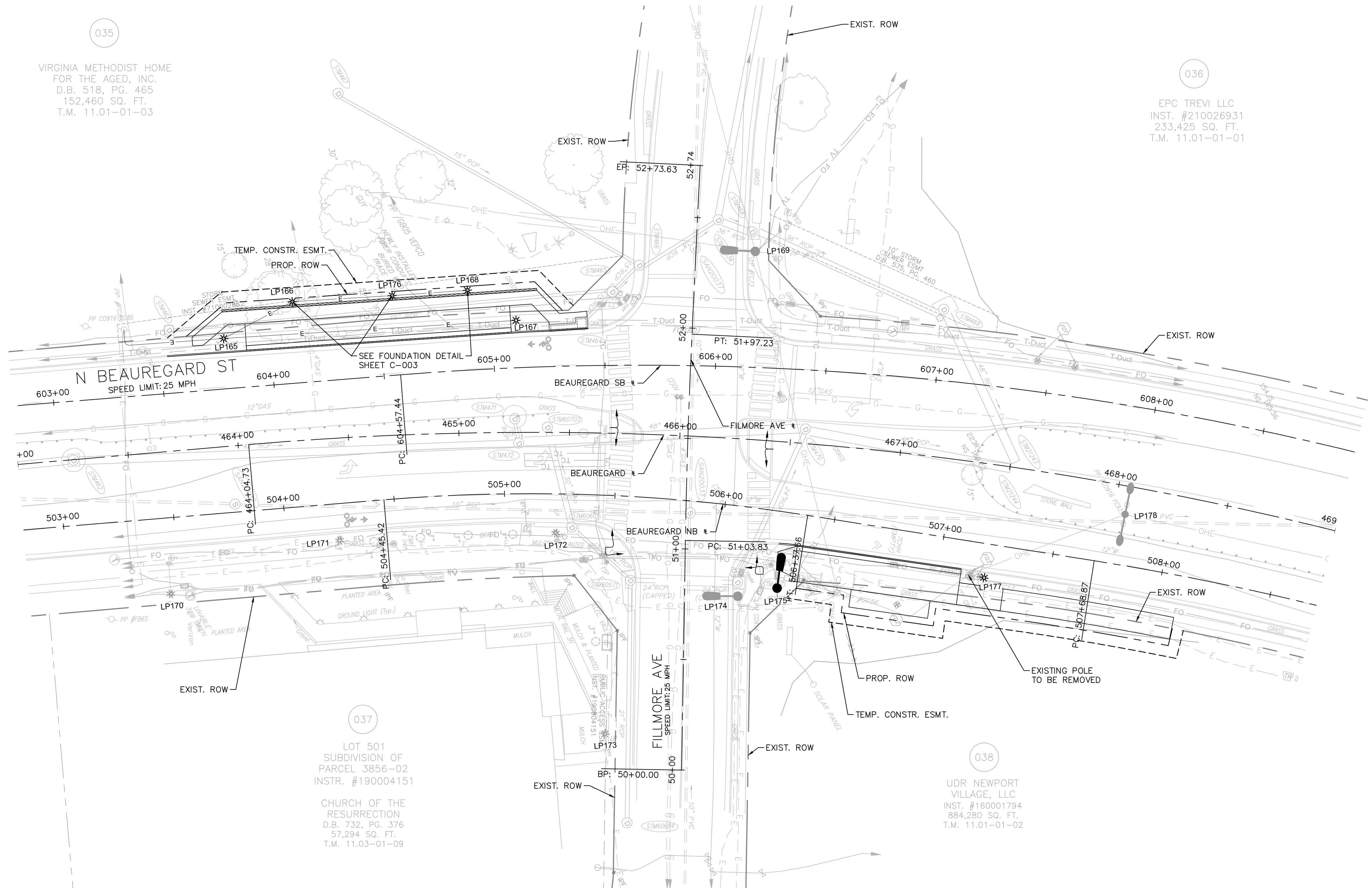
CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313



Plotted By: Agnew, Price Sheet Set: West End Transitway - Phase 1 Layout: C-1012 LIGHTING PLAN September 05, 2024 01:40:13pm \\svr01\01\VA\NVA2\NVA_Transit\10104122_West End Transitway Design\CADD\PlanSheets\LIGHTING PLAN.dwg

035

VIRGINIA METHODIST HOME
FOR THE AGED, INC.
D.B. 518, PG. 465
152,460 SQ. FT.
T.M. 11.01-01-03



036

EPC TREVI LLC
INST. #210026931
233,425 SQ. FT.
T.M. 11.01-01-01

037

LOT 501
SUBDIVISION OF
PARCEL 3856-02
INSTR. #190004151

CHURCH OF THE
RESURRECTION
D.B. 732, PG. 376
57,294 SQ. FT.
T.M. 11.03-01-09

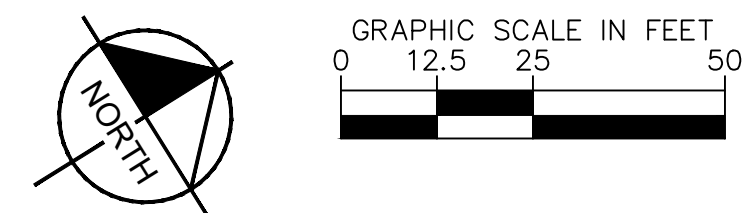
038

UDR NEWPORT
VILLAGE, LLC
INST. #160001794
884,280 SQ. FT.
T.M. 11.01-01-02

LEGEND:

	PROPOSED ACORN LED ON NEW LIGHT POLE		PROP. RIGHT OF WAY
	EXISTING ACORN LED ON EXISTING LIGHT POLE		TEMP. CONST. EASEMENT
	EXISTING COBRA LED ON EXISTING LIGHT POLE		EXISTING RIGHT OF WAY
	EXISTING DOUBLE COBRA LED ON EXISTING LIGHT POLE		
	EXISTING COBRA LED TO BE REMOVED		
	PROPOSED COBRA LED ON PROPOSED LIGHT POLE		

LIGHT POLE LABEL	POLE TYPE	MOUNTING HEIGHT	CHAIN	STN	OFFSET (FEET)	DIRECTION (NORTH/SOUTH)
LP165	PROPOSED ACORN LIGHT ON PROPOSED LIGHT POLE	14'	N. BEAUREGARD ST.	463+97.56	48.77	NORTH
LP166	PROPOSED ACORN LIGHT ON PROPOSED LIGHT POLE	14'	N. BEAUREGARD ST.	464+24.36	63.90	NORTH
LP167	PROPOSED ACORN LIGHT ON PROPOSED LIGHT POLE	14'	N. BEAUREGARD ST.	465+26.08	50.69	NORTH
LP168	PROPOSED ACORN LIGHT ON PROPOSED LIGHT POLE	14'	N. BEAUREGARD ST.	465+05.08	64.54	NORTH
LP169	EXISTING COBRA LED ON EXISTING LIGHT POLE	EXISTING	N. BEAUREGARD ST.	EX	EX	NORTH
LP170	EXISTING ACORN LIGHT ON EXISTING LIGHT POLE	EXISTING	N. BEAUREGARD ST.	EX	EX	SOUTH
LP171	EXISTING ACORN LIGHT ON EXISTING LIGHT POLE	EXISTING	N. BEAUREGARD ST.	EX	EX	SOUTH
LP172	EXISTING ACORN LIGHT ON EXISTING LIGHT POLE	EXISTING	N. BEAUREGARD ST.	EX	EX	SOUTH
LP173	EXISTING ACORN LIGHT ON EXISTING LIGHT POLE	EXISTING	N. BEAUREGARD ST.	EX	EX	SOUTH
LP174	EXISTING COBRA LED ON EXISTING LIGHT POLE	EXISTING	N. BEAUREGARD ST.	EX	EX	SOUTH
LP175	PROPOSED COBRA LED ON PROPOSED LIGHT POLE	25'	N. BEAUREGARD ST.	466+49.06	66.22	SOUTH
LP176	NOT USED					
LP177	PROPOSED ACORN LIGHT ON PROPOSED LIGHT POLE	14'	N. BEAUREGARD ST.	467+45.44	51.31	SOUTH
LP178	EXISTING DUAL COBRA LED ON EXISTING LIGHT POLE	EXISTING	N. BEAUREGARD ST.	EX	EX	SOUTH



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS



CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

REVISIONS

NO.	DATE	DESCRIPTION

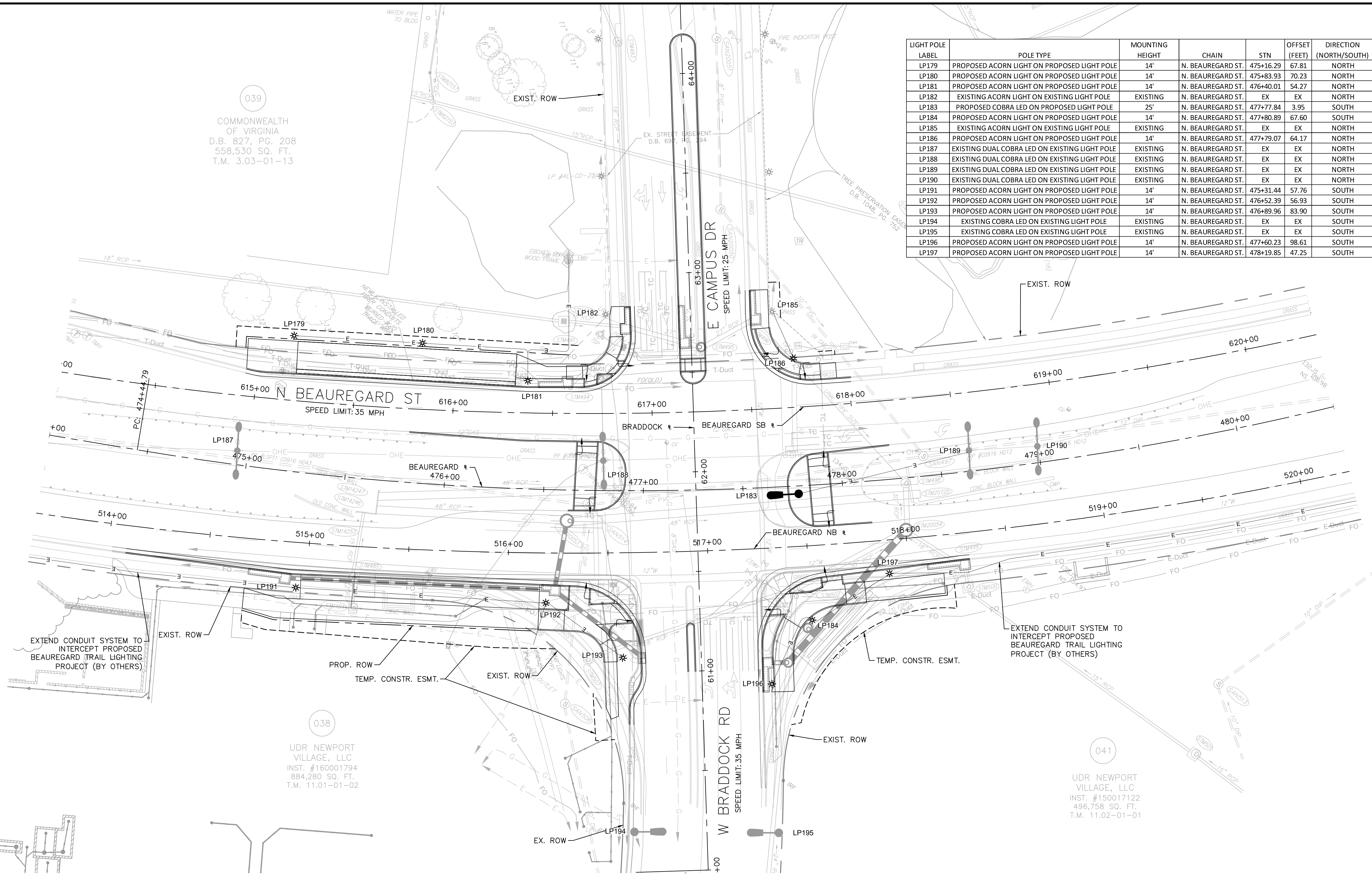
ALEXANDRIA PROJECT NO.: 110104122
DATE OF PLAN ISSUANCE: N/A
CONSULTANT PROJECT ID: N/A
DESIGNED BY: KAP DATE: 4/5/24
DRAWN BY: KAP DATE: 4/5/24
CHECKED BY: EJD DATE: 4/5/24
APPROVED BY: _____ DATE: _____

**LIGHTING PLAN - N
BEAUREGARD STREET AT
FILLMORE AVENUE**

SHEET
C-1012
SCALE 1" = 25'

90% DESIGN PHASE

Plotted By: Agnew, Price Sheet Set: West End Transitway - Phase 1 Layout: C-101.3 LIGHTING PLAN September 05, 2024 01:40:18pm \\wvrip01\AT_NVA2\NVA_Transit\10104122_West End Transitway Design\CADD\PlanSheets\LIGHTING PLAN.dwg



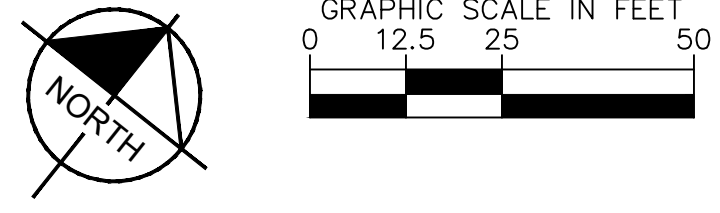
039
COMMONWEALTH OF VIRGINIA
D.B. 827, PG. 208
558,530 SQ. FT.
T.M. 3.03-01-13

038
UDR NEWPORT VILLAGE, LLC
INST. #160001794
884,280 SQ. FT.
T.M. 11.01-01-02

041
UDR NEWPORT VILLAGE, LLC
INST. #150017122
496,758 SQ. FT.
T.M. 11.02-01-01

LIGHT POLE LABEL	POLE TYPE	MOUNTING HEIGHT	CHAIN	STN	OFFSET (FEET)	DIRECTION (NORTH/SOUTH)
LP179	PROPOSED ACORN LIGHT ON PROPOSED LIGHT POLE	14'	N. BEAUGARD ST.	475+16.29	67.81	NORTH
LP180	PROPOSED ACORN LIGHT ON PROPOSED LIGHT POLE	14'	N. BEAUGARD ST.	475+83.93	70.23	NORTH
LP181	PROPOSED ACORN LIGHT ON PROPOSED LIGHT POLE	14'	N. BEAUGARD ST.	476+40.01	54.27	NORTH
LP182	EXISTING ACORN LIGHT ON EXISTING LIGHT POLE	EXISTING	N. BEAUGARD ST.	EX	EX	NORTH
LP183	PROPOSED COBRA LED ON PROPOSED LIGHT POLE	25'	N. BEAUGARD ST.	477+77.84	3.95	SOUTH
LP184	PROPOSED ACORN LIGHT ON PROPOSED LIGHT POLE	14'	N. BEAUGARD ST.	477+80.89	67.60	SOUTH
LP185	EXISTING ACORN LIGHT ON EXISTING LIGHT POLE	EXISTING	N. BEAUGARD ST.	EX	EX	NORTH
LP186	PROPOSED ACORN LIGHT ON PROPOSED LIGHT POLE	14'	N. BEAUGARD ST.	477+79.07	64.17	NORTH
LP187	EXISTING DUAL COBRA LED ON EXISTING LIGHT POLE	EXISTING	N. BEAUGARD ST.	EX	EX	NORTH
LP188	EXISTING DUAL COBRA LED ON EXISTING LIGHT POLE	EXISTING	N. BEAUGARD ST.	EX	EX	NORTH
LP189	EXISTING DUAL COBRA LED ON EXISTING LIGHT POLE	EXISTING	N. BEAUGARD ST.	EX	EX	NORTH
LP190	EXISTING DUAL COBRA LED ON EXISTING LIGHT POLE	EXISTING	N. BEAUGARD ST.	EX	EX	NORTH
LP191	PROPOSED ACORN LIGHT ON PROPOSED LIGHT POLE	14'	N. BEAUGARD ST.	475+31.44	57.76	SOUTH
LP192	PROPOSED ACORN LIGHT ON PROPOSED LIGHT POLE	14'	N. BEAUGARD ST.	476+52.39	56.93	SOUTH
LP193	PROPOSED ACORN LIGHT ON PROPOSED LIGHT POLE	14'	N. BEAUGARD ST.	476+89.96	83.90	SOUTH
LP194	EXISTING COBRA LED ON EXISTING LIGHT POLE	EXISTING	N. BEAUGARD ST.	EX	EX	SOUTH
LP195	EXISTING COBRA LED ON EXISTING LIGHT POLE	EXISTING	N. BEAUGARD ST.	EX	EX	SOUTH
LP196	PROPOSED ACORN LIGHT ON PROPOSED LIGHT POLE	14'	N. BEAUGARD ST.	477+60.23	98.61	SOUTH
LP197	PROPOSED ACORN LIGHT ON PROPOSED LIGHT POLE	14'	N. BEAUGARD ST.	478+19.85	47.25	SOUTH

- LEGEND:**
- PROPOSED ACORN LED ON NEW LIGHT POLE
 - EXISTING ACORN LED ON EXISTING LIGHT POLE
 - EXISTING COBRA LED ON EXISTING LIGHT POLE
 - EXISTING DOUBLE COBRA LED ON EXISTING LIGHT POLE
 - EXISTING COBRA LED TO BE REMOVED
 - PROPOSED COBRA LED ON PROPOSED LIGHT POLE
 - PROP. RIGHT OF WAY
 - TEMP. CONST. EASEMENT
 - EXISTING RIGHT OF WAY



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS 90% DESIGN PHASE



CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

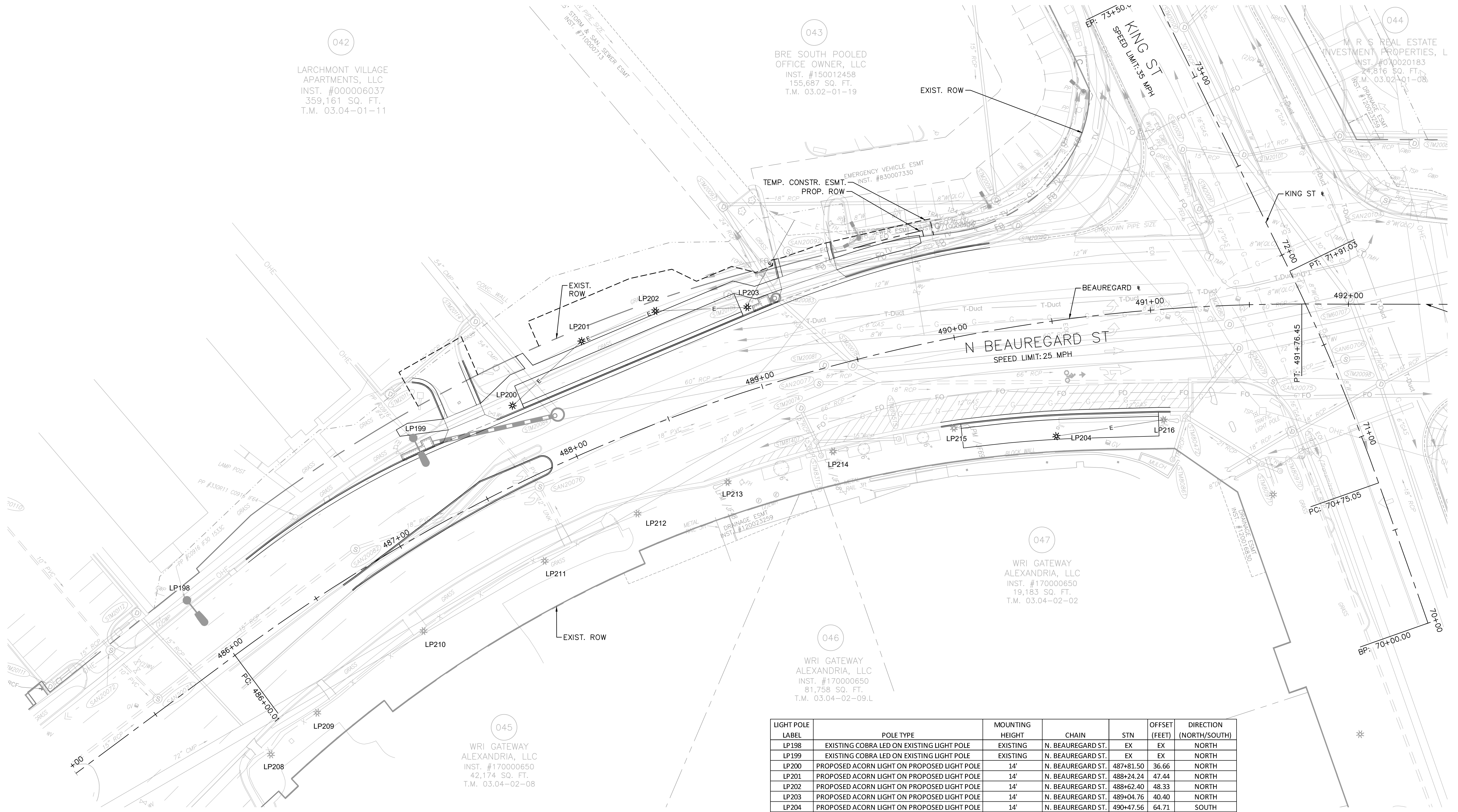
REVISIONS	DESCRIPTION
DATE	BY

ALEXANDRIA PROJECT NO.: 110104122
DATE OF PLAN ISSUANCE: N/A
CONSULTANT PROJECT ID: N/A
DESIGNED BY: KAP DATE: 4/5/24
DRAWN BY: KAP DATE: 4/5/24
CHECKED BY: EJD DATE: 4/5/24
APPROVED BY: _____ DATE: _____

**LIGHTING PLAN - N
BEAUGARD STREET AT
W BRADDOCK ROAD**

SHEET
C-1013
SCALE 1" = 25'

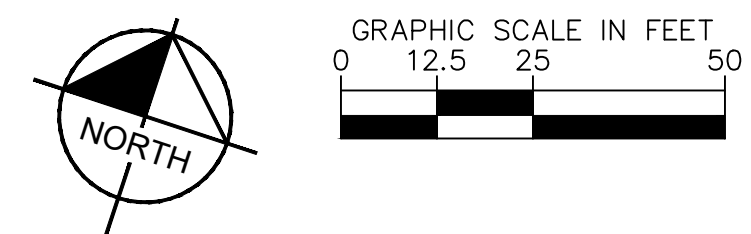
Plotted By: Agnew, Price Sheet Set: West End Transitway - Phase 1 Layout: C-1014 LIGHTING PLAN September 05, 2024 01:40:25pm \\nvafp01\AT_NV22\NVA_Transist\10104122_West_End_Transitway\Design\CADD\PlanSheets\LIGHTING_PLAN.dwg



LEGEND:

	PROPOSED ACORN LED ON NEW LIGHT POLE		PROP. RIGHT OF WAY
	EXISTING ACORN LED ON EXISTING LIGHT POLE		TEMP. CONST. EASEMENT
	EXISTING COBRA LED ON EXISTING LIGHT POLE		EXISTING RIGHT OF WAY
	EXISTING DOUBLE COBRA LED ON EXISTING LIGHT POLE		
	EXISTING COBRA LED TO BE REMOVED		
	PROPOSED COBRA LED ON PROPOSED LIGHT POLE		

LIGHT POLE LABEL	POLE TYPE	MOUNTING HEIGHT	CHAIN	STN	OFFSET (FEET)	DIRECTION (NORTH/SOUTH)
LP198	EXISTING COBRA LED ON EXISTING LIGHT POLE	EXISTING	N. BEAUREGARD ST.	EX	EX	NORTH
LP199	EXISTING COBRA LED ON EXISTING LIGHT POLE	EXISTING	N. BEAUREGARD ST.	EX	EX	NORTH
LP200	PROPOSED ACORN LIGHT ON PROPOSED LIGHT POLE	14'	N. BEAUREGARD ST.	487+81.50	36.66	NORTH
LP201	PROPOSED ACORN LIGHT ON PROPOSED LIGHT POLE	14'	N. BEAUREGARD ST.	488+24.24	47.44	NORTH
LP202	PROPOSED ACORN LIGHT ON PROPOSED LIGHT POLE	14'	N. BEAUREGARD ST.	488+62.40	48.33	NORTH
LP203	PROPOSED ACORN LIGHT ON PROPOSED LIGHT POLE	14'	N. BEAUREGARD ST.	489+04.76	40.40	NORTH
LP204	PROPOSED ACORN LIGHT ON PROPOSED LIGHT POLE	14'	N. BEAUREGARD ST.	490+47.56	64.71	SOUTH
LP205	NOT USED					
LP206	NOT USED					
LP207	NOT USED					
LP208	EXISTING ACORN LIGHT ON EXISTING LIGHT POLE	EXISTING	N. BEAUREGARD ST.	EX	EX	SOUTH
LP209	EXISTING ACORN LIGHT ON EXISTING LIGHT POLE	EXISTING	N. BEAUREGARD ST.	EX	EX	SOUTH
LP210	EXISTING ACORN LIGHT ON EXISTING LIGHT POLE	EXISTING	N. BEAUREGARD ST.	EX	EX	SOUTH
LP211	EXISTING ACORN LIGHT ON EXISTING LIGHT POLE	EXISTING	N. BEAUREGARD ST.	EX	EX	SOUTH
LP212	EXISTING ACORN LIGHT ON EXISTING LIGHT POLE	EXISTING	N. BEAUREGARD ST.	EX	EX	SOUTH
LP213	EXISTING ACORN LIGHT ON EXISTING LIGHT POLE	EXISTING	N. BEAUREGARD ST.	EX	EX	SOUTH
LP214	EXISTING ACORN LIGHT ON EXISTING LIGHT POLE	EXISTING	N. BEAUREGARD ST.	EX	EX	SOUTH
LP215	EXISTING ACORN LIGHT ON EXISTING LIGHT POLE	EXISTING	N. BEAUREGARD ST.	EX	EX	SOUTH
LP216	EXISTING ACORN LIGHT ON EXISTING LIGHT POLE	EXISTING	N. BEAUREGARD ST.	EX	EX	SOUTH
LP217	EXISTING ACORN LIGHT ON EXISTING LIGHT POLE	EXISTING	N. BEAUREGARD ST.	EX	EX	SOUTH
LP218	EXISTING ACORN LIGHT ON EXISTING LIGHT POLE	EXISTING	N. BEAUREGARD ST.	EX	EX	SOUTH



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

**LIGHTING PLAN - N
BEAUREGARD STREET AT
KING STREET**

90% DESIGN PHASE

ALEXANDRIA PROJECT NO.: 110104122
 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: KAP DATE: 4/5/24
 DRAWN BY: KAP DATE: 4/5/24
 CHECKED BY: EJD DATE: 4/5/24
 APPROVED BY: _____ DATE: _____

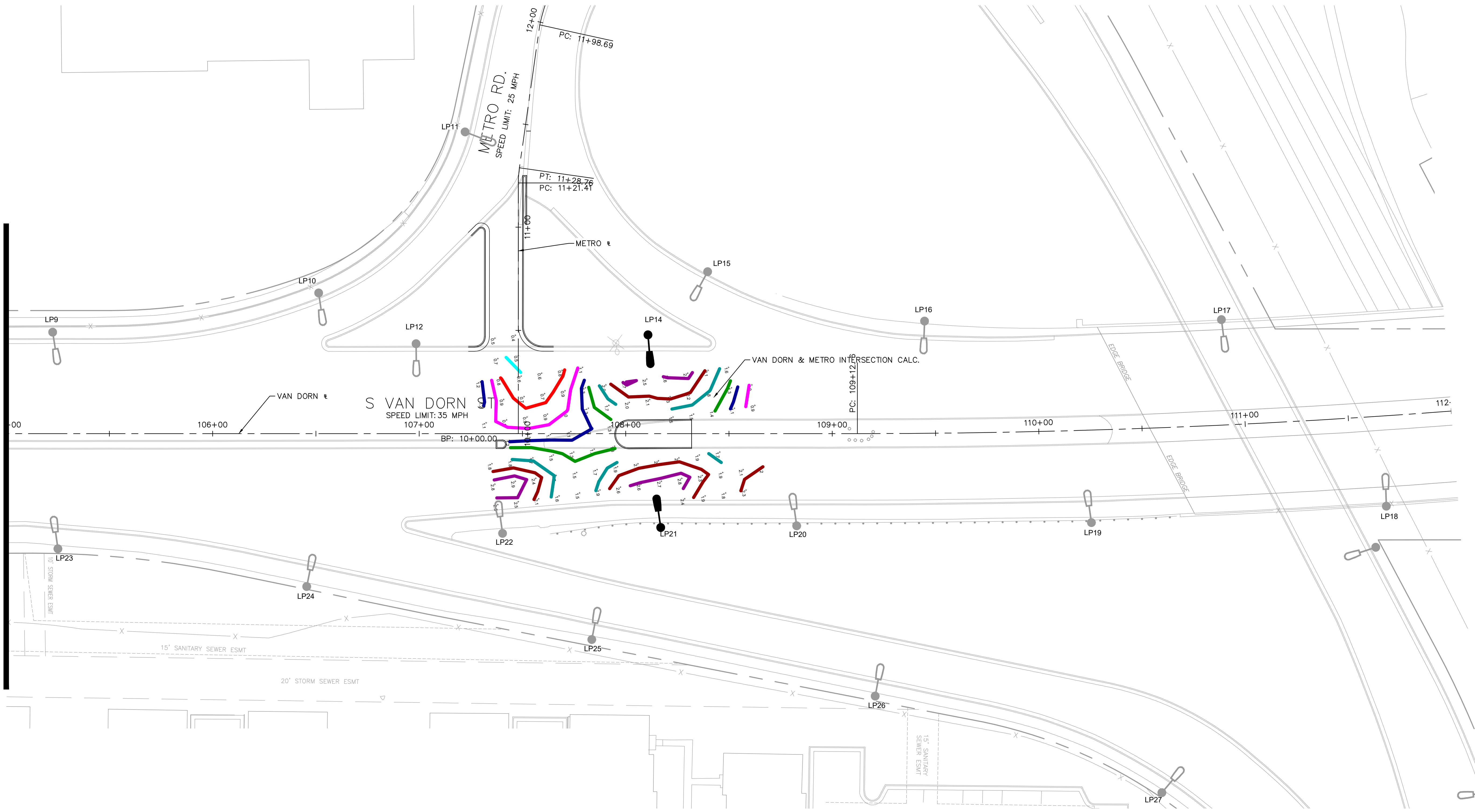
CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

REVISIONS

NO.	DATE	DESCRIPTION

Plotted By: Agreen, Price Sheet Set: West End Transitway - Phase 1 Layout: C-1016 PHOTOMETRIC PLAN - S VAN DORN STREET AT METRO ROAD September 05, 2024 01:40:37pm \\rvb901\AT_VA2\NVA_Transit\110104122_West_End_Transitway_Design\CADD\PlanSheets\LIGHTING\PLAN VAN DORN - PHOTOMETRICS.dwg

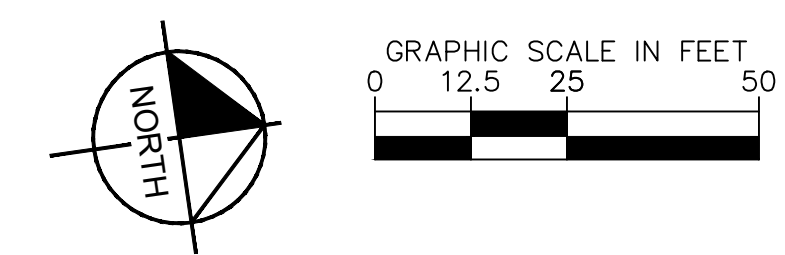
MATCHLINE STA. 105+00 SEE SHEET C-1015



CALCULATION SUMMARY									
LABEL	CALC TYPE	UNITS	AVERAGE	TARGET AVG	MAX	MIN	AVG/MIN	TARGET AVG/MIN	MAX/MIN
VAN DORN & METRO INTERSECTION	ILLUMINANCE	FC	1.6	1.2	2.9	0.4	4.1	6.0	7.3

NOTE:
1. REFER TO SHEET C-1002 FOR ELECTRICAL AND POLE LOCATION INFORMATION

PHOTOMETRIC LEGEND			
VALUE (FC)	COLOR	VALUE (FC)	COLOR
0.2	Black	1.2	Blue
0.3	Blue	1.4	Green
0.4	Green	1.8	Cyan
0.6	Cyan	2.2	Magenta
0.8	Magenta	2.6	Red
1.0	Red	3.0	Yellow



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS
90% DESIGN PHASE

CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

REVISIONS	DESCRIPTION

ALEXANDRIA PROJECT NO.: 110104122

DATE OF PLAN ISSUANCE: N/A

CONSULTANT PROJECT ID: N/A

DESIGNED BY: KAP DATE: 4/5/24

DRAWN BY: KAP DATE: 4/5/24

CHECKED BY: EJD DATE: 4/5/24

APPROVED BY: _____ DATE: _____

PHOTOMETRIC PLAN - S VAN DORN STREET AT METRO ROAD










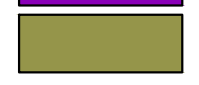


SHEET C-1016

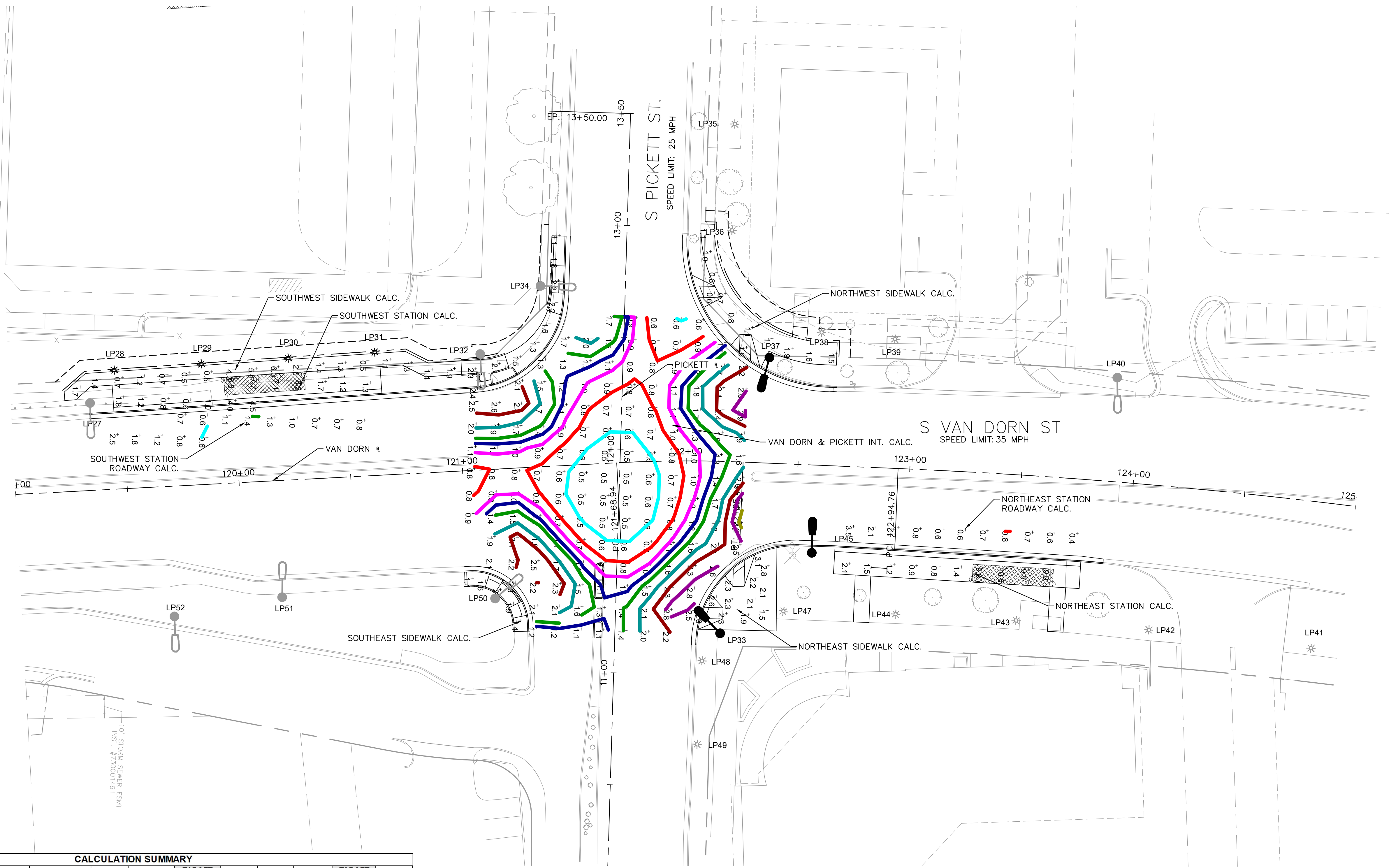
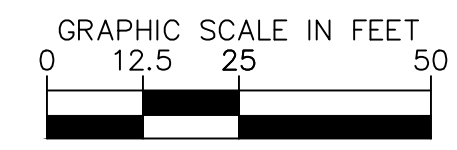
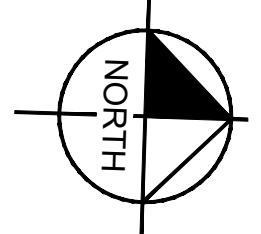
SCALE 1" = 25'

Plotted By: Agnew, Price Sheet Set: West End Transitway - Phase 1 Layout: C-1017 PHOTOMETRIC PLAN - S VAN DORN STREET AT S PICKETT STREET September 05, 2024 01:40:42pm \\vwp01\AT_NVA2\NVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\LIGHTING PLAN_VAN

CALCULATION SUMMARY									
LABEL	CALC TYPE	UNITS	AVERAGE	TARGET AVG	MAX	MIN	AVG/MIN	TARGET AVG/MIN	MAX/MIN
SOUTHWEST STATION ROADWAY	ILLUMINANCE	FC	1.0	0.6	2.5	0.6	1.7	6.0	4.2
SOUTHWEST STATION	ILLUMINANCE	FC	1.2	0.6	1.9	0.9	1.4	6.0	2.1
NORTHEAST STATION ROADWAY	ILLUMINANCE	FC	1.0	0.6	3.5	0.3	3.2	6.0	11.7
NORTHEAST STATION	ILLUMINANCE	FC	0.9	0.6	2.1	0.5	1.9	6.0	4.2
VAN DORN & PICKETT INTERSECTION	ILLUMINANCE	FC	1.3	1.2	3.2	0.5	2.6	6.0	6.4
NORTHEAST SIDEWALK	ILLUMINANCE	FC	2.3	0.6	3.1	1.5	1.5	6.0	2.1
NORTHWEST SIDEWALK	ILLUMINANCE	FC	1.2	0.6	1.9	0.6	2.0	6.0	3.2
SOUTHEAST SIDEWALK	ILLUMINANCE	FC	1.6	0.6	2.0	1.1	1.5	6.0	1.8
SOUTHWEST SIDEWALK	ILLUMINANCE	FC	1.3	0.6	2.6	0.3	4.2	6.0	8.7

NOTE:
 1. REFER TO SHEET C-1003 FOR ELECTRICAL AND POLE LOCATION INFORMATION.
 2. REFER TO SHEET A-103 FOR SHELTER LIGHTING DETAILS.

PHOTOMETRIC LEGEND			
VALUE (FC)	COLOR	VALUE (FC)	COLOR
0.2		1.2	
0.3		1.4	
0.4		1.8	
0.6		2.2	
0.8		2.6	
1.0		3.0	



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

**PHOTOMETRIC PLAN - S
 VAN DORN STREET AT S
 PICKETT STREET**

SHEET
 C-1017
 SCALE 1" = 25'

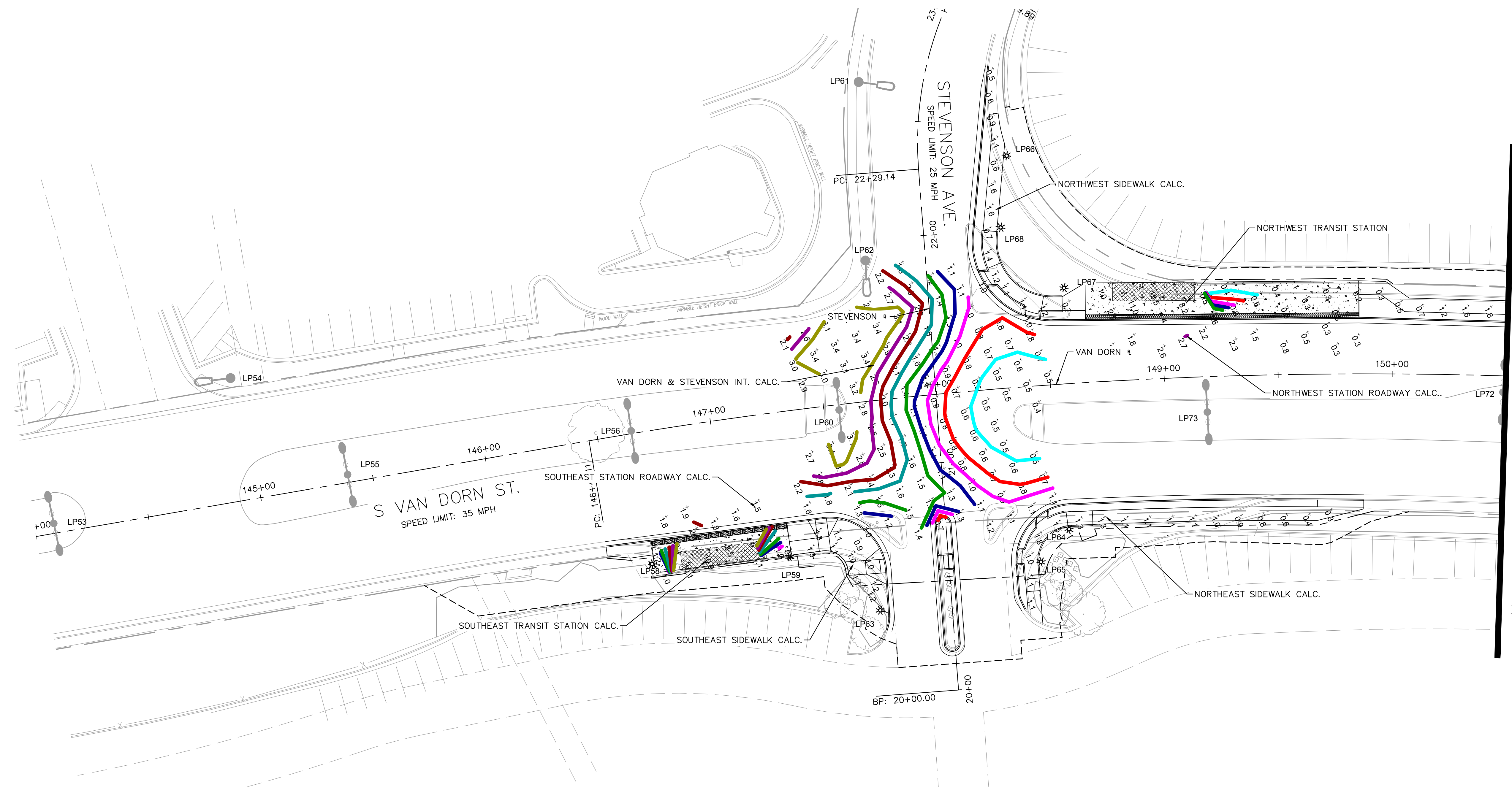
REVISIONS	DATE	DESCRIPTION

ALEXANDRIA PROJECT NO.: 110104122
 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: KAP DATE: 4/5/24
 DRAWN BY: KAP DATE: 4/5/24
 CHECKED BY: EJD DATE: 4/5/24
 APPROVED BY: _____ DATE: _____

CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313



Plotted By: Agnew, Price Sheet Set: West End Transitway - Phase 1 Layout: C-1018 PHOTOMETRIC PLAN - S VAN DORN STREET AT STEVENSON AVENUE September 05, 2024 01:40:45pm \\nvafp001\AT_NVA2\NVA2\Transit\110104122_West_End_Transitway_Design\CADD\PlanSheets\LIGHTING_PLAN_VAN

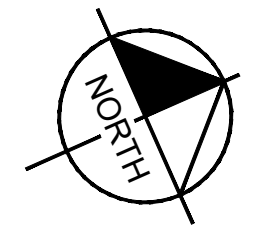


MATCHLINE STA. 150+50 SEE SHEET C-1019

S. VAN DORN AND STEVENSON CALCULATION SUMMARY									
LABEL	CALC TYPE	UNITS	AVERAGE	TARGET AVG	MAX	MIN	AVG/MIN	TARGET AVG/MIN	MAX/MIN
NORTHEAST SIDEWALK	ILLUMINANCE	FC	1.0	1.0	1.8	0.3	3.4	6.0	6.0
NORTHWEST STATION ROADWAY	ILLUMINANCE	FC	1.4	0.6	2.7	0.3	4.6	6.0	9.0
NORTHWEST TRANSIT STATION	ILLUMINANCE	FC	3.3	0.6	14.5	0.3	10.9	6.0	48.3
NORTHWEST SIDEWALK	ILLUMINANCE	FC	1.0	1.0	1.6	0.5	2.0	6.0	3.2
SOUTHWEST SIDEWALK	ILLUMINANCE	FC	1.2	1.0	1.9	0.2	5.8	6.0	9.5
SOUTHEAST STATION ROADWAY	ILLUMINANCE	FC	1.9	0.6	2.4	1.5	1.2	6.0	1.6
SOUTHEAST TRANSIT STATION	ILLUMINANCE	FC	4.9	2.0	11.6	1.0	4.9	6.0	11.6
SOUTHEAST SIDEWALK	ILLUMINANCE	FC	1.1	1.0	1.3	0.6	1.8	6.0	2.2
VAN DORN & STEVENSON INTERSECTION	ILLUMINANCE	FC	1.6	1.2	3.4	0.4	4.1	6.0	8.5

NOTE:
 1. REFER TO SHEET C-1004 FOR ELECTRICAL AND POLE LOCATION INFORMATION.
 2. REFER TO SHEET A-103 FOR SHELTER LIGHTING DETAILS.

PHOTOMETRIC LEGEND			
VALUE (FC)	COLOR	VALUE (FC)	COLOR
0.2		1.2	
0.3		1.4	
0.4		1.8	
0.6		2.2	
0.8		2.6	
1.0		3.0	



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

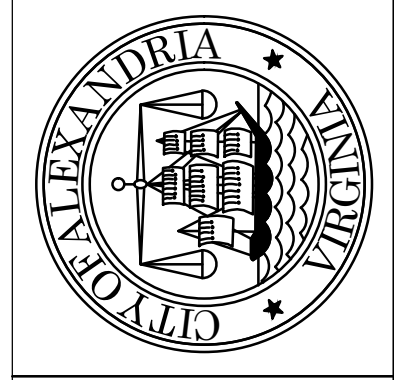
REVISIONS	DATE	DESCRIPTION

ALEXANDRIA PROJECT NO.: 110104122
 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: KAP DATE: 4/5/24
 DRAWN BY: KAP DATE: 4/5/24
 CHECKED BY: EJD DATE: 4/5/24
 APPROVED BY: _____ DATE: _____

**PHOTOMETRIC PLAN - S
 VAN DORN STREET AT
 STEVENSON AVENUE**

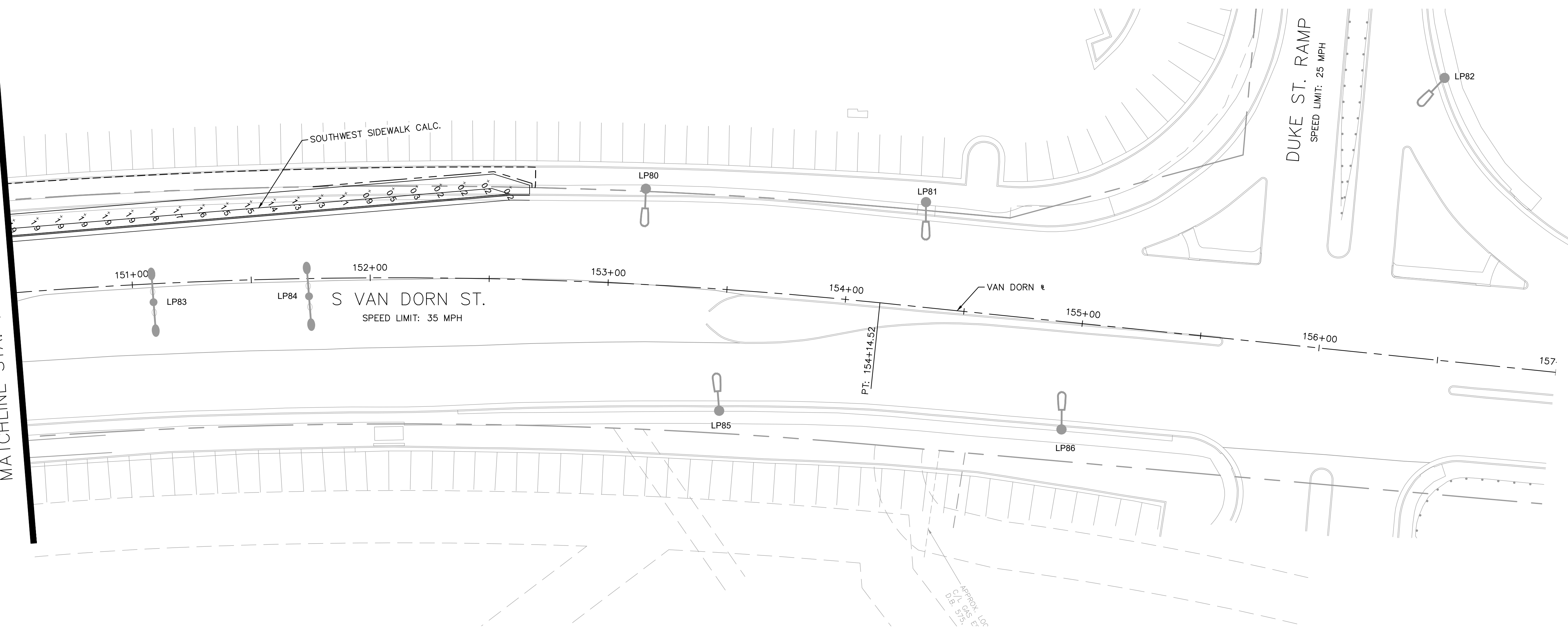
SHEET
 C-1018
 SCALE 1" = 25'

CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313



Plotted By: Agnew, Price Sheet Set: West End Transitway - Phase 1 Layout: C-1019 PHOTOMETRIC PLAN - S VAN DORN STREET AT DUKE STREET RAMP September 05, 2024 01:40:50pm \\nvafp001\AT_NVA2\NVA_Traffic\110104122_West_End_Transitway_Design\CADD\PlanSheets\LIGHTING PLAN VAN

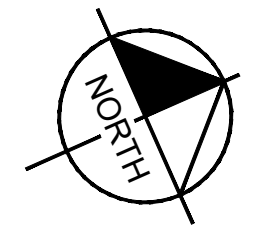
MATCHLINE STA. 150+50 SEE SHEET C-1018



CALCULATION SUMMARY									
LABEL	CALC TYPE	UNITS	AVERAGE	TARGET AVG	MAX	MIN	AVG/MIN	TARGET AVG/MIN	MAX/MIN
SOUTHWEST SIDEWALK	ILLUMINANCE	FC	1.2	0.6	1.9	0.2	5.8	6.0	9.5

NOTE:
 1. REFER TO SHEET C-1005 FOR ELECTRICAL AND POLE LOCATION INFORMATION
 2. NO LIGHTING WORK THIS SHEET

PHOTOMETRIC LEGEND			
VALUE (FC)	COLOR	VALUE (FC)	COLOR
0.2		1.2	
0.3		1.4	
0.4		1.8	
0.6		2.2	
0.8		2.6	
1.0		3.0	



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

ALEXANDRIA PROJECT NO.: 110104122
 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: KAP DATE: 4/5/24
 DRAWN BY: KAP DATE: 4/5/24
 CHECKED BY: EJD DATE: 4/5/24
 APPROVED BY: _____ DATE: _____

**PHOTOMETRIC PLAN - S
 VAN DORN STREET AT
 DUKE STREET RAMP**

SHEET
 C-1019
 SCALE 1" = 25'

CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

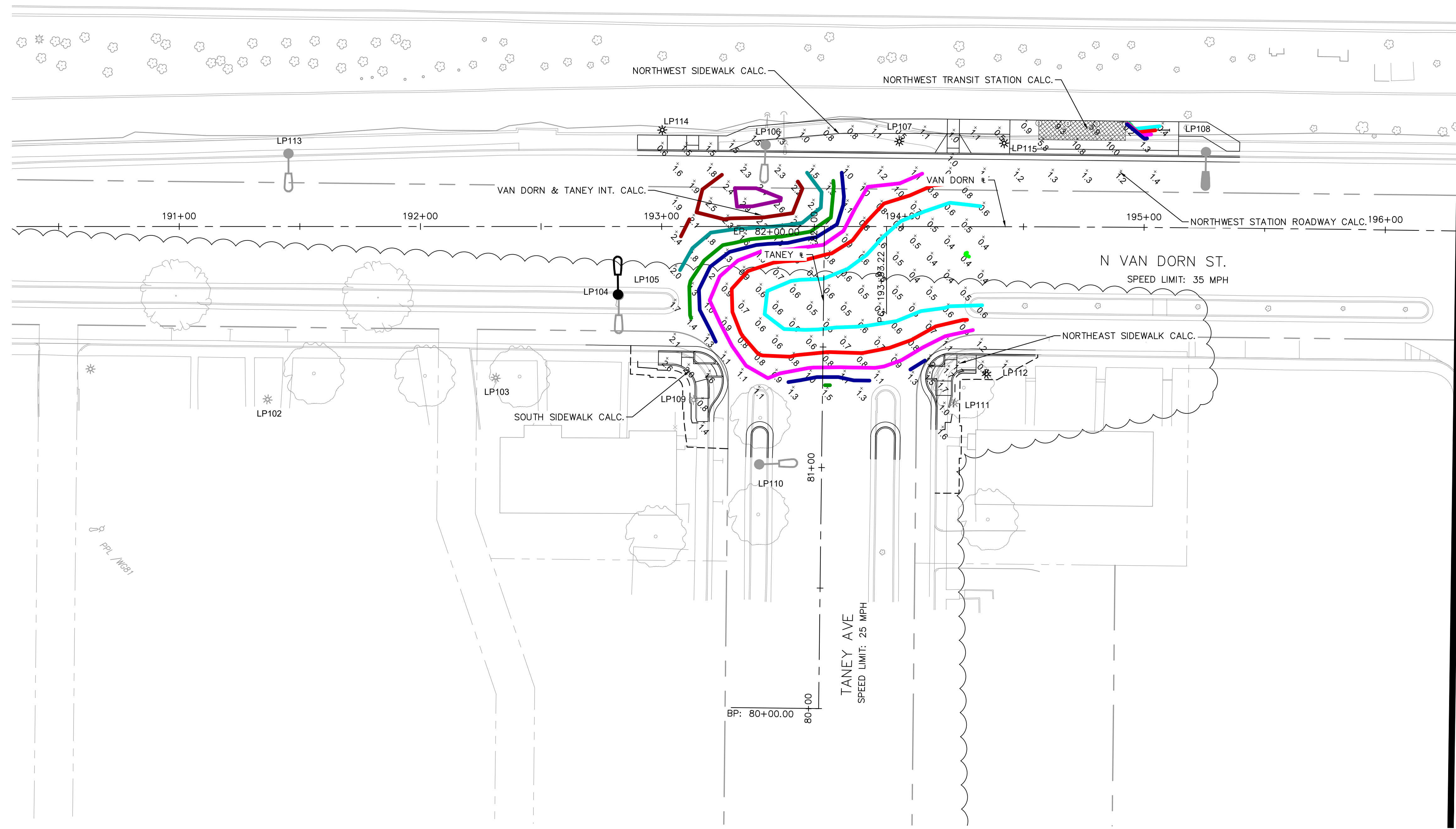


Plotted By: Agnew, Price Sheet Set: West End Transitway - Phase 1 Layout: C-1021 PHOTOMETRIC PLAN - N VAN DORN STREET AT TANEY AVENUE September 05, 2024 01:40:59pm \\vwp001\AT_NVA2\NVA_Transt\110104122_West_End_Transitway_Design\CADD\PlanSheets\LIGHTING\PLAN_VAN_DORN

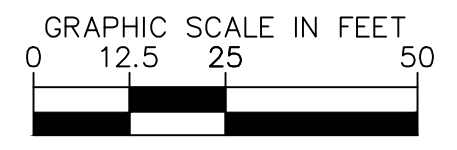
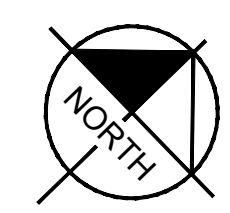
N VAN DORN AND TANEY CALCULATION SUMMARY									
LABEL	CALC TYPE	UNITS	AVERAGE	TARGET AVG	MAX	MIN	AVG/MIN	TARGET AVG/MIN	MAX/MIN
NORTHWEST SIDEWALK	ILLUMINANCE	FC	0.9	1.0	1.3	0.4	2.2	6.0	3.3
NORTHEAST SIDEWALK	ILLUMINANCE	FC	1.4	1.0	1.7	0.8	1.8	6.0	2.1
NORTHWEST STATION ROADWAY	ILLUMINANCE	FC	1.3	0.6	1.4	1.2	1.1	6.0	1.2
NORTHWEST TRANSIT STATION	ILLUMINANCE	FC	5.3	2.0	11.5	0.2	26.3	6.0	57.5
SOUTH SIDEWALK	ILLUMINANCE	FC	1.7	1.0	2.6	0.8	2.1	6.0	3.3
VAN DORN & TANEY INTERSECTION	ILLUMINANCE	FC	1.0	1.2	2.8	0.4	2.6	6.0	7.0

NOTE:
 1. REFER TO SHEET C-1007 FOR ELECTRICAL AND POLE LOCATION INFORMATION.
 2. REFER TO SHEET A-103 FOR SHELTER LIGHTING DETAILS.

PHOTOMETRIC LEGEND			
VALUE (FC)	COLOR	VALUE (FC)	COLOR
0.2		1.2	
0.3		1.4	
0.4		1.8	
0.6		2.2	
0.8		2.6	
1.0		3.0	



MATCHLINE STA. 197+00 SEE SHEET C-1022



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

PHOTOMETRIC PLAN - N
 VAN DORN STREET AT
 TANEY AVENUE

SHEET
 C-1021
 SCALE 1" = 25'

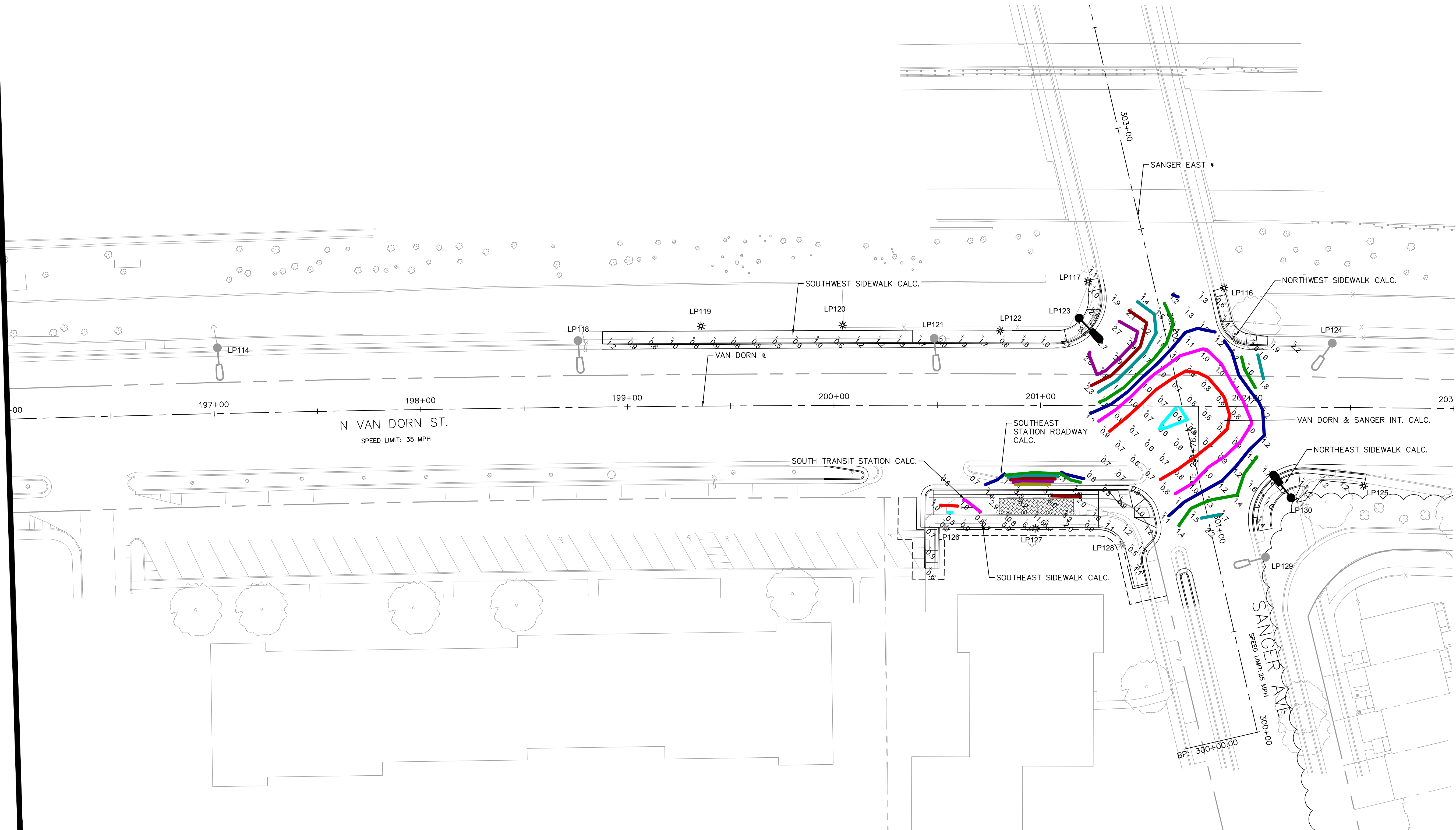
REVISIONS	DATE	DESCRIPTION

CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313



ALEXANDRIA PROJECT NO.: 110104122
 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: KAP DATE: 4/5/24
 DRAWN BY: KAP DATE: 4/5/24
 CHECKED BY: EJD DATE: 4/5/24
 APPROVED BY: _____ DATE: _____

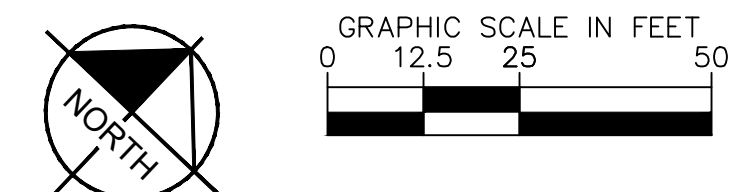
MATCHLINE STA. 197+00 SEE SHEET C-1007



N VAN DORN AND SANGER CALCULATION SUMMARY									
LABEL	CALC TYPE	UNITS	AVERAGE	TARGET AVG	MAX	MIN	AVG/MIN	TARGET AVG/MIN	MAX/MIN
EAST SIDEWALK	ILLUMINANCE	FC	1.4	0.6	1.7	1.1	1.2	6.0	1.5
NORTH SIDEWALK	ILLUMINANCE	FC	1.5	0.6	2.2	0.6	2.5	6.0	3.7
VAN DORN AND SANGER INTERSECTION	ILLUMINANCE	FC	1.2	1.2	2.9	0.6	2.1	6.0	4.8
SOUTH TRANSIT STATION	ILLUMINANCE	FC	4.9	0.6	12.5	0.5	9.9	6.0	25.0
SOUTH SIDEWALK	ILLUMINANCE	FC	1.8	0.6	6.9	0.2	8.8	6.0	34.5
WEST SIDEWALK	ILLUMINANCE	FC	1.2	0.6	2.6	0.5	2.5	6.0	5.2

NOTE:
 1. REFER TO SHEET C-1008 FOR ELECTRICAL AND POLE LOCATION INFORMATION.
 2. REFER TO SHEET A-103 FOR SHELTER LIGHTING DETAILS.

PHOTOMETRIC LEGEND			
VALUE (FC)	COLOR	VALUE (FC)	COLOR
0.2	Black	1.2	Blue
0.3	Blue	1.4	Green
0.4	Green	1.8	Cyan
0.6	Cyan	2.2	Magenta
0.8	Magenta	2.6	Red
1.0	Red	3.0	Yellow

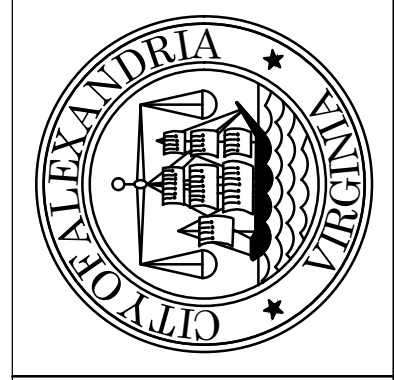


WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

PHOTOMETRIC PLAN - N
 VAN DORN STREET AT
 SANGER AVENUE

SHEET
 C-1022
 SCALE 1" = 25'

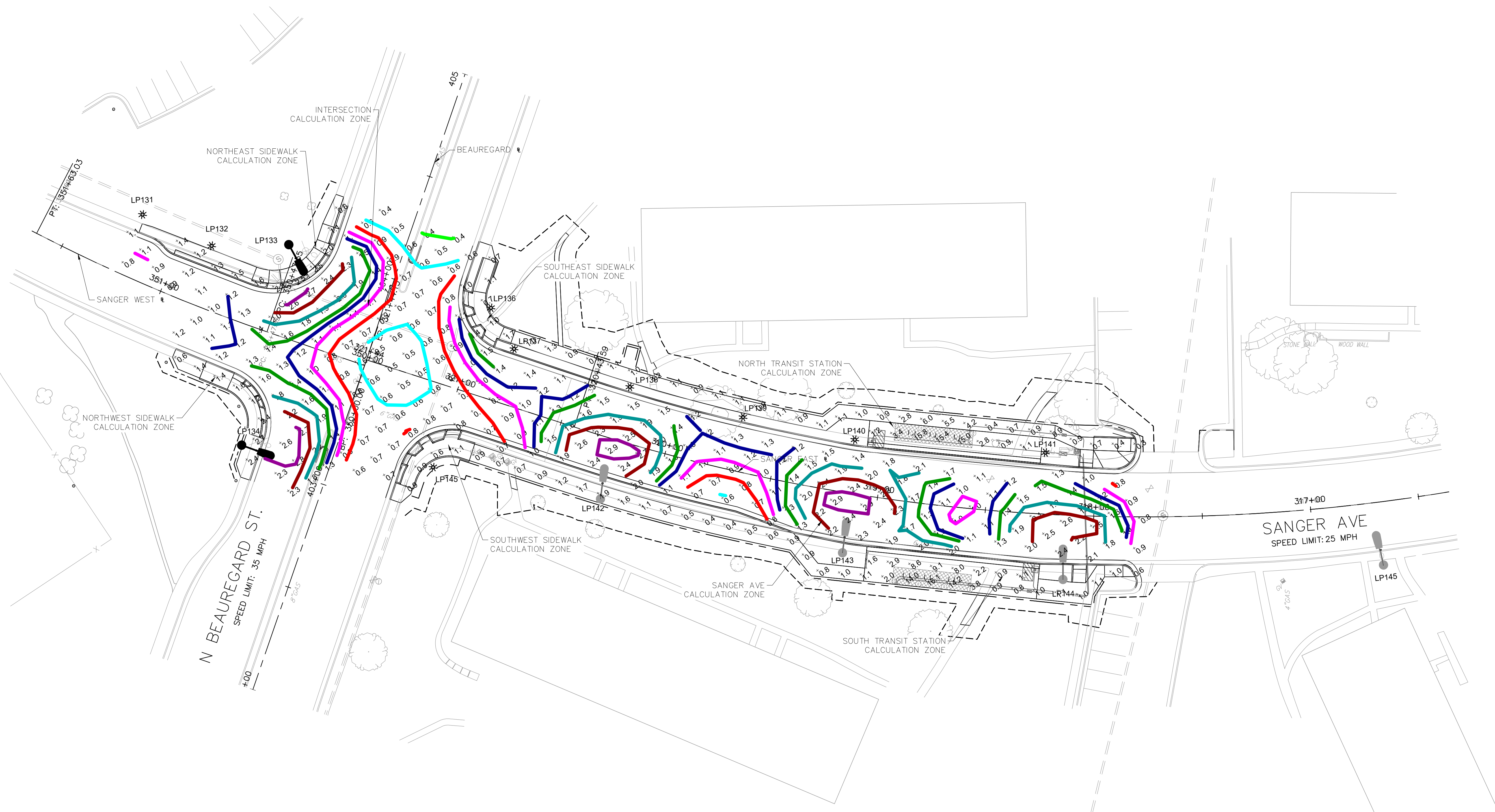
90% DESIGN PHASE



CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

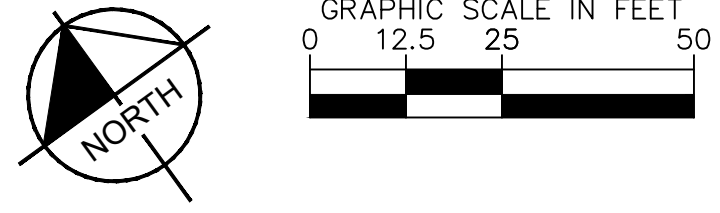
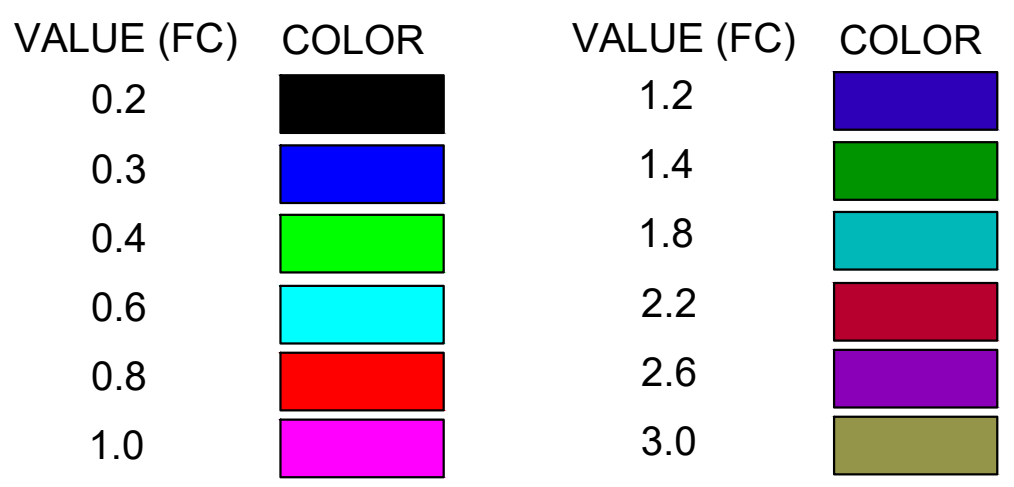
REVISIONS	DESCRIPTION
DATE	BY

ALEXANDRIA PROJECT NO.: 110104122
 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: KAP DATE: 4/5/24
 DRAWN BY: KAP DATE: 4/5/24
 CHECKED BY: EJD DATE: 4/5/24
 APPROVED BY: _____ DATE: _____



NOTE:
 1. REFER TO SHEET C-1009 FOR ELECTRICAL AND POLE LOCATION INFORMATION.
 2. REFER TO SHEET A-103 FOR SHELTER LIGHTING DETAILS.

N BEAUREGARD AND SANGER CALCULATION SUMMARY									
NORTH TRANSIT STATION	ILLUMINANCE	FC	4.8	2.0	15.8	0.4	12.0	6.0	39.5
SOUTH TRANSIT STATION	ILLUMINANCE	FC	5.5	2.0	16.1	0.8	6.8	6.0	20.1
NORTHEAST SIDEWALK	ILLUMINANCE	FC	1.6	1.0	2.5	0.6	2.7	6.0	4.2
NORTHWEST SIDEWALK	ILLUMINANCE	FC	1.7	1.0	2.7	0.6	2.9	6.0	4.5
SOUTHEAST SIDEWALK	ILLUMINANCE	FC	1.4	1.0	6.0	0.3	4.5	6.0	20.0
SOUTHWEST SIDEWALK	ILLUMINANCE	FC	2.2	1.0	16.1	0.4	5.4	6.0	40.3
INTERSECTION	ILLUMINANCE	FC	1.1	1.2	2.7	0.5	2.2	6.0	5.4
SANGER AVE	ILLUMINANCE	FC	1.6	0.6	2.9	0.6	2.6	6.0	4.8



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

**PHOTOMETRIC PLAN - N
 BEAUREGARD STREET AT
 SANGER AVENUE**

90% DESIGN PHASE

CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

REVISIONS	DESCRIPTION
DATE	BY

ALEXANDRIA PROJECT NO.: 110104122

DATE OF PLAN ISSUANCE: N/A

CONSULTANT PROJECT ID: N/A

DESIGNED BY: KAP DATE: 4/5/24

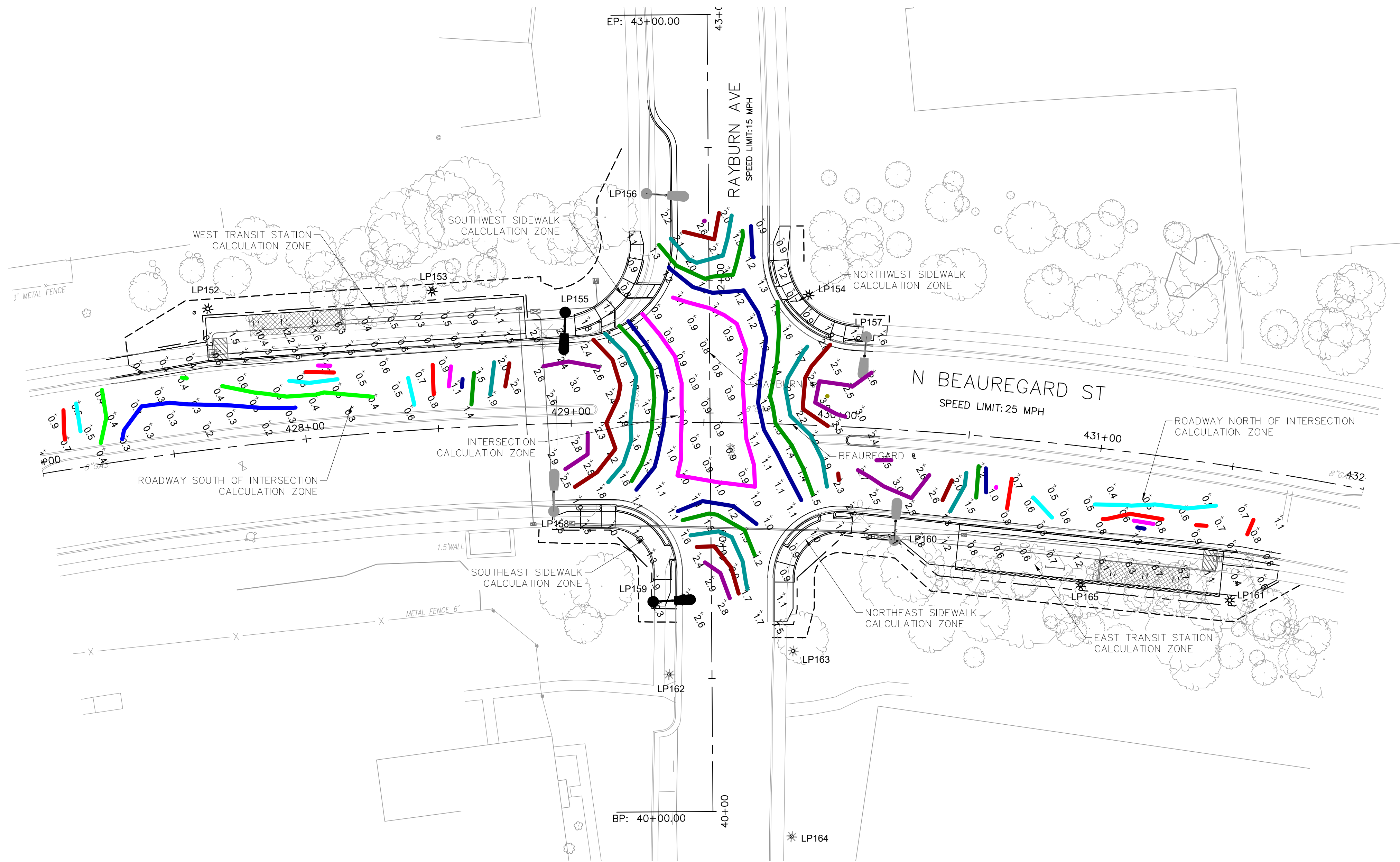
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CHECKED BY: EJD DATE: 4/5/24

APPROVED BY: _____ DATE: _____

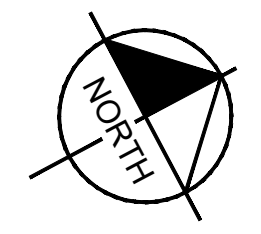
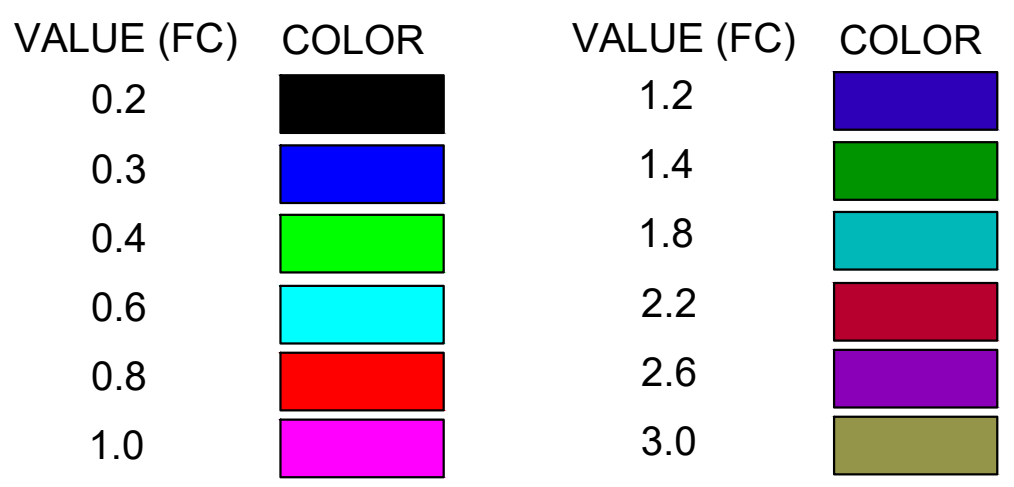
SHEET
 C-1023
 SCALE 1" = 25'

Plotted By: Agnew, Price Sheet Set: West End Transitway - Phase 1 Layout: C-1025 LIGHTING PLAN September 05, 2024 01:41:14pm \\wvwp01\at_nva2\NVA_Transit\10104122_West_End_Transitway_Design\CADD\PlanSheets\LIGHTING PLAN - PHOTOMETRICS.dwg



- NOTE:**
- REFER TO SHEET C-1011 FOR ELECTRICAL AND POLE LOCATION INFORMATION.
 - REFER TO SHEET A-103 FOR SHELTER LIGHTING DETAILS.

N BEAUREGARD AND RAYBURN CALCULATION SUMMARY									
LABEL	CALC TYPE	UNITS	AVERAGE	TARGET AVG	MAX	MIN	AVG/MIN	TARGET AVG/MIN	MAX/MIN
EAST TRANSIT STATION	ILLUMINANCE	FC	2.9	2.0	6.7	0.6	4.8	6.0	11.2
WEST TRANSIT STATION	ILLUMINANCE	FC	2.7	2.0	12.2	0.2	13.6	6.0	61.0
NORTHEAST SIDEWALK	ILLUMINANCE	FC	2.0	1.0	6.7	0.4	5.0	6.0	16.8
NORTHWEST SIDEWALK	ILLUMINANCE	FC	1.3	1.0	1.9	0.7	1.9	6.0	2.7
SOUTHWEST SIDEWALK	ILLUMINANCE	FC	1.4	1.0	3.6	0.4	3.4	6.0	9.0
SOUTHEAST SIDEWALK	ILLUMINANCE	FC	1.5	1.0	2.3	1.0	1.5	6.0	2.3
INTERSECTION	ILLUMINANCE	FC	1.5	1.2	3.0	0.8	1.8	6.0	3.8
ROADWAY NORTH OF INTERSECTION	ILLUMINANCE	FC	1.3	0.6	3.0	0.4	3.1	6.0	7.5
ROADWAY SOUTH OF INTERSECTION	ILLUMINANCE	FC	0.9	0.6	2.6	0.2	4.3	6.0	13.0



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

PHOTOMETRIC PLAN - N
BEAUREGARD STREET AT
RAYBURN AVENUE

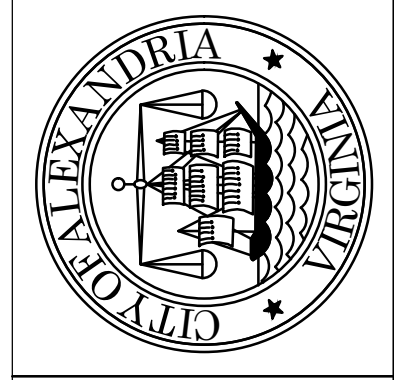
SHEET
C-1025
SCALE 1" = 25'

REVISIONS	DESCRIPTION
DATE	BY

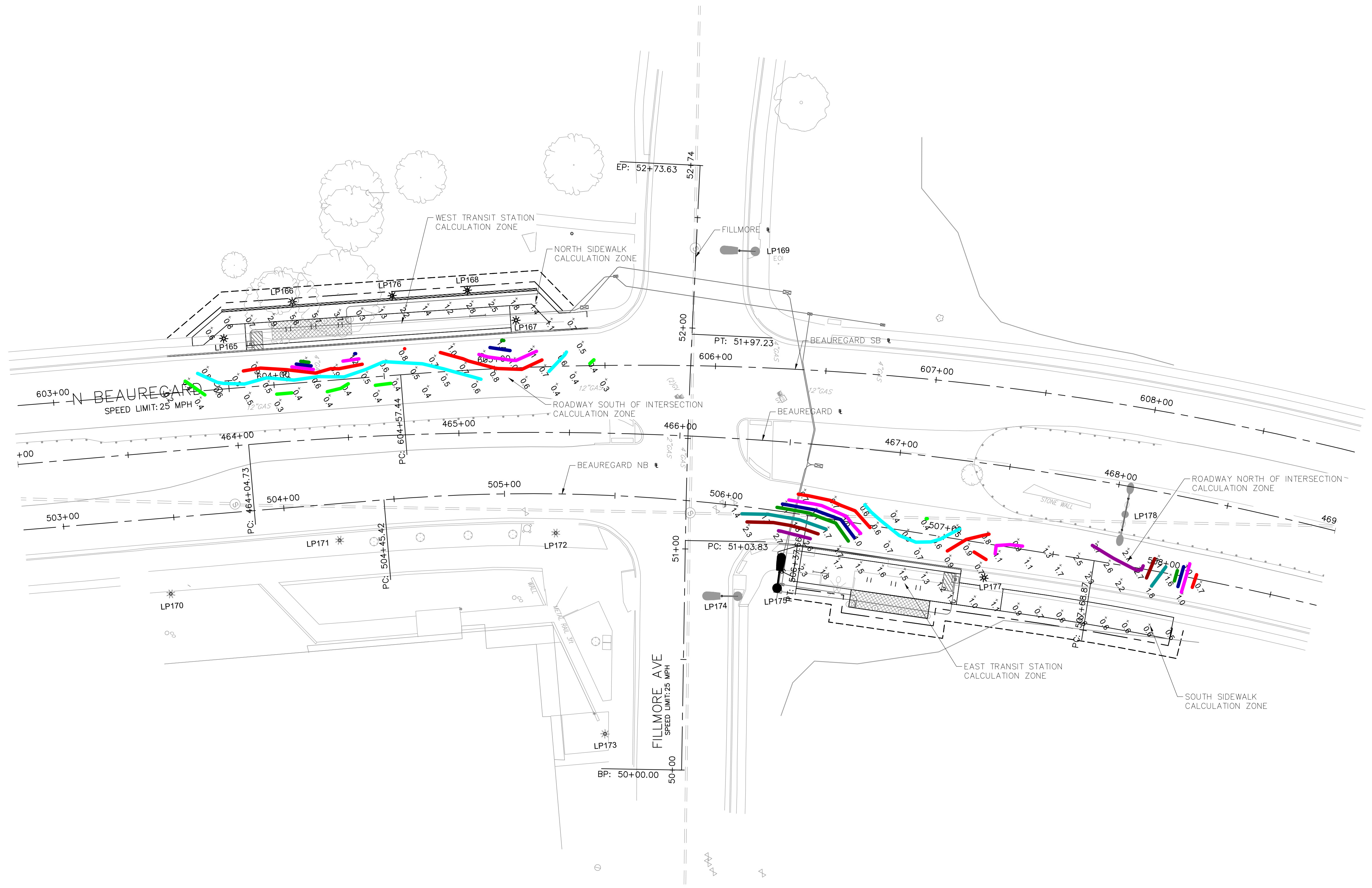
DATE	DESCRIPTION

ALEXANDRIA PROJECT NO.: 110104122
DATE OF PLAN ISSUANCE: N/A
CONSULTANT PROJECT ID: N/A
DESIGNED BY: KAP DATE: 4/5/24
DRAWN BY: KAP DATE: 4/5/24
CHECKED BY: EJD DATE: 4/5/24
APPROVED BY: _____ DATE: _____

CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313



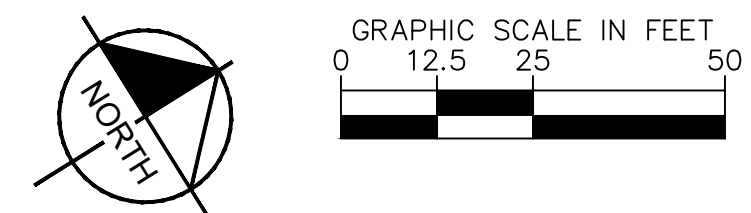
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NOTE:
 1. REFER TO SHEET C-1012 FOR ELECTRICAL AND POLE LOCATION INFORMATION.
 2. REFER TO SHEET A-103 FOR SHELTER LIGHTING DETAILS.

N BEAUREGARD AND FILLMORE CALCULATION SUMMARY									
LABEL	CALC TYPE	UNITS	AVERAGE	TARGET AVG	MAX	MIN	AVG/MIN	TARGET AVG/MIN	MAX/MIN
WEST TRANSIT STATION	ILLUMINANCE	FC	4.2	2.0	13.1	0.6	7.0	6.0	21.8
EAST TRANSIT STATION	ILLUMINANCE	FC	3.1	2.0	8.2	1.2	2.6	6.0	6.8
NORTH SIDEWALK	ILLUMINANCE	FC	2.1	1.0	5.8	0.3	6.8	6.0	19.3
SOUTH SIDEWALK	ILLUMINANCE	FC	1.2	1.0	2.5	0.5	2.4	6.0	5.0
ROADWAY NORTH OF INTERSECTION	ILLUMINANCE	FC	1.4	0.6	2.7	0.4	3.4	6.0	6.8
ROADWAY SOUTH OF INTERSECTION	ILLUMINANCE	FC	0.7	0.6	1.6	0.2	3.3	6.0	8.0

VALUE (FC)	COLOR	VALUE (FC)	COLOR
0.2		1.2	
0.3		1.4	
0.4		1.8	
0.6		2.2	
0.8		2.6	
1.0		3.0	



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS 90% DESIGN PHASE



CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

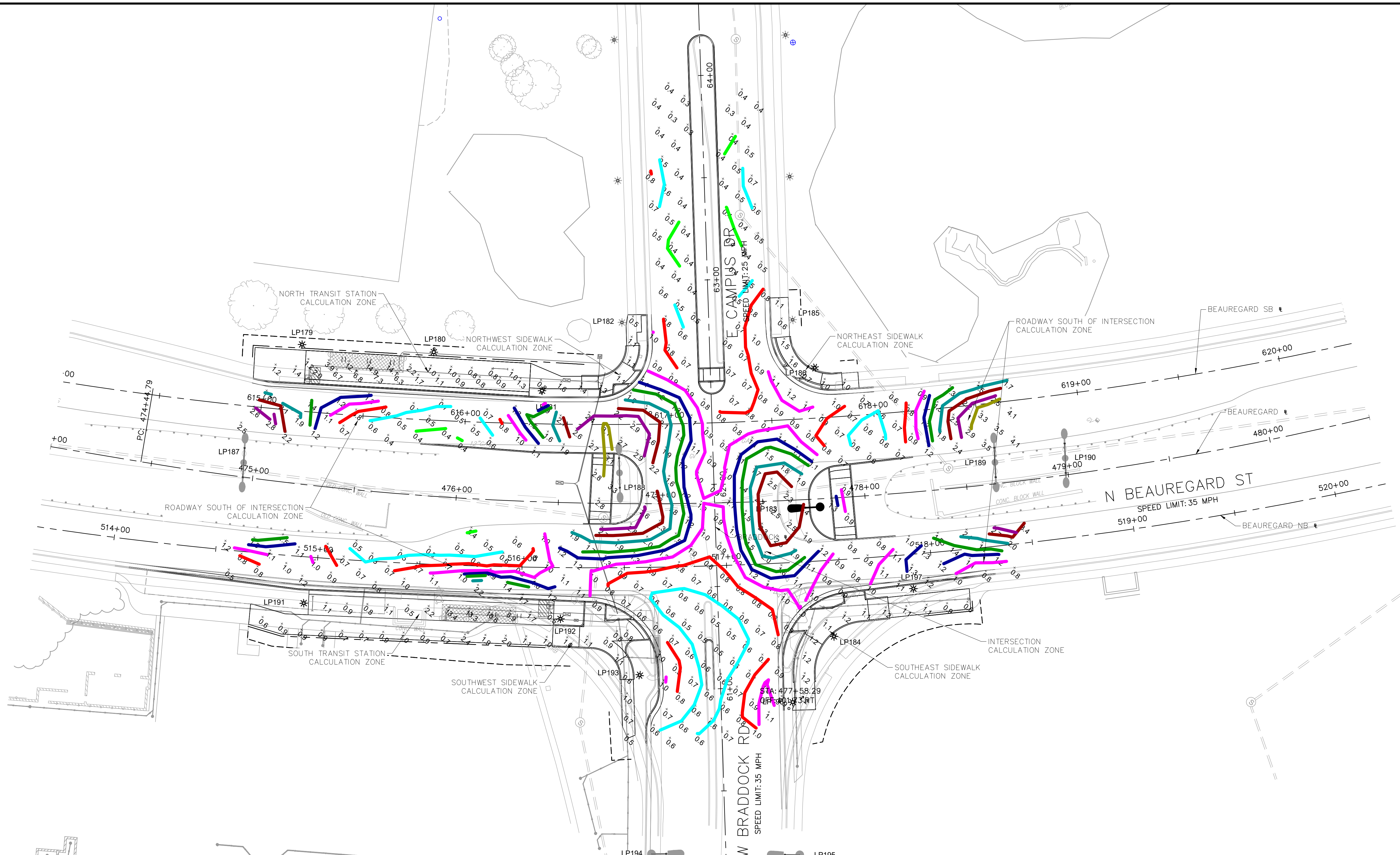
REVISIONS	DESCRIPTION
DATE	BY

ALEXANDRIA PROJECT NO.: 110104122
 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: KAP DATE: 4/5/24
 DRAWN BY: KAP DATE: 4/5/24
 CHECKED BY: EJD DATE: 4/5/24
 APPROVED BY: _____ DATE: _____

PHOTOMETRIC PLAN - N
 BEAUREGARD STREET AT
 FILLMORE AVENUE

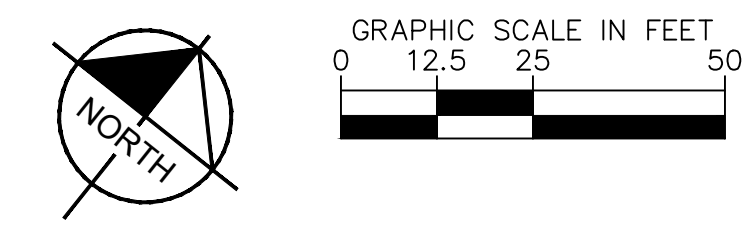
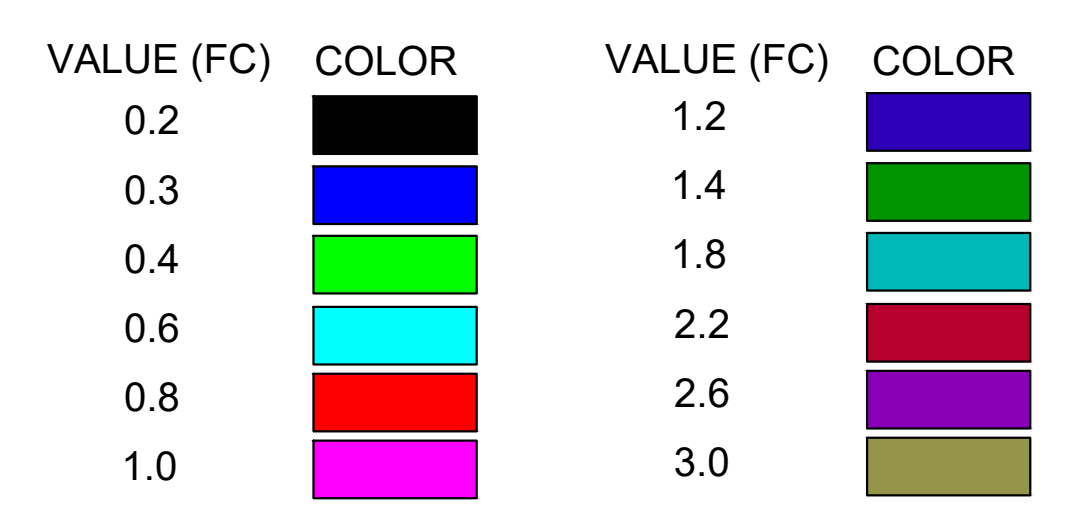
SHEET
 C-1026
 SCALE 1" = 25'

Plotted By: Agnew, Price Sheet Set: West End Transitway - Phase 1 Layout: C-1027 LIGHTING PLAN September 05, 2024 01:41:26pm \\nvafp01\AT_NV22\NVA_Transit\10104122_West_End_Transitway_Design\CADD\PlanSheets\LIGHTING PLAN - PHOTOMETRICS.dwg



NOTE:
 1. REFER TO SHEET C-1013 FOR ELECTRICAL AND POLE LOCATION INFORMATION.
 2. REFER TO SHEET A-103 FOR SHELTER LIGHTING DETAILS.

N BEAUREGARD AND EAST CAMPUS CALCULATION SUMMARY									
LABEL	CALC TYPE	UNITS	AVERAGE	TARGET AVG	MAX	MIN	AVG/MIN	TARGET AVG/MIN	MAX/MIN
NORTH TRANSIT STATION	ILLUMINANCE	FC	4.0	2.0	14.9	0.8	5.1	6.0	18.6
SOUTH TRANSIT STATION	ILLUMINANCE	FC	4.6	2.0	13.4	0.5	9.2	6.0	26.8
NORTHEAST SIDEWALK	ILLUMINANCE	FC	1.1	1.0	1.6	0.6	1.8	6.0	2.7
NORTHWEST SIDEWALK	ILLUMINANCE	FC	2.3	1.0	7.3	0.5	4.5	6.0	14.6
SOUTHEAST SIDEWALK	ILLUMINANCE	FC	1.1	1.0	1.2	0.6	1.8	6.0	2.0
SOUTHWEST SIDEWALK	ILLUMINANCE	FC	1.0	1.0	2.4	0.5	2.0	6.0	4.8
INTERSECTION	ILLUMINANCE	FC	1.3	1.2	3.3	0.5	2.6	6.0	6.6
ROADWAY NORTH OF INTERSECTION	ILLUMINANCE	FC	1.6	0.6	4.1	0.6	2.7	6.0	6.8
ROADWAY SOUTH OF INTERSECTION	ILLUMINANCE	FC	1.1	0.6	2.8	0.4	2.6	6.0	7.0



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS 90% DESIGN PHASE



CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

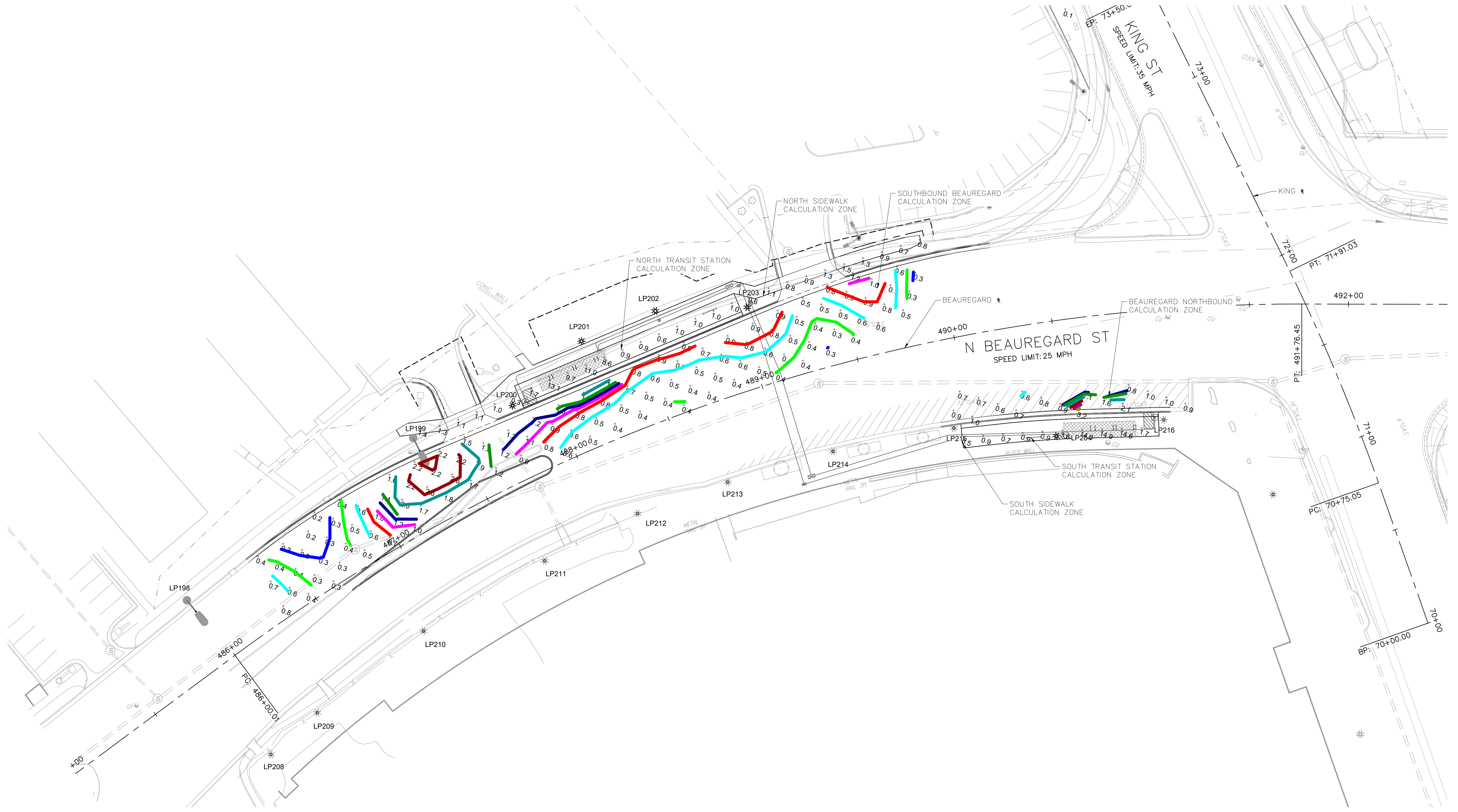
REVISIONS	DESCRIPTION
DATE	BY

ALEXANDRIA PROJECT NO.: 110104122
 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
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 CHECKED BY: EJD DATE: 4/5/24
 APPROVED BY: _____ DATE: _____

PHOTOMETRIC PLAN - N BEAUREGARD STREET AT W BRADDOCK ROAD

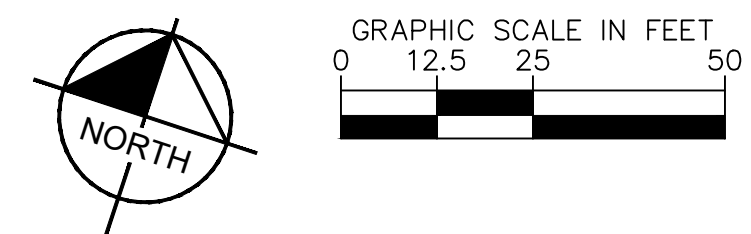
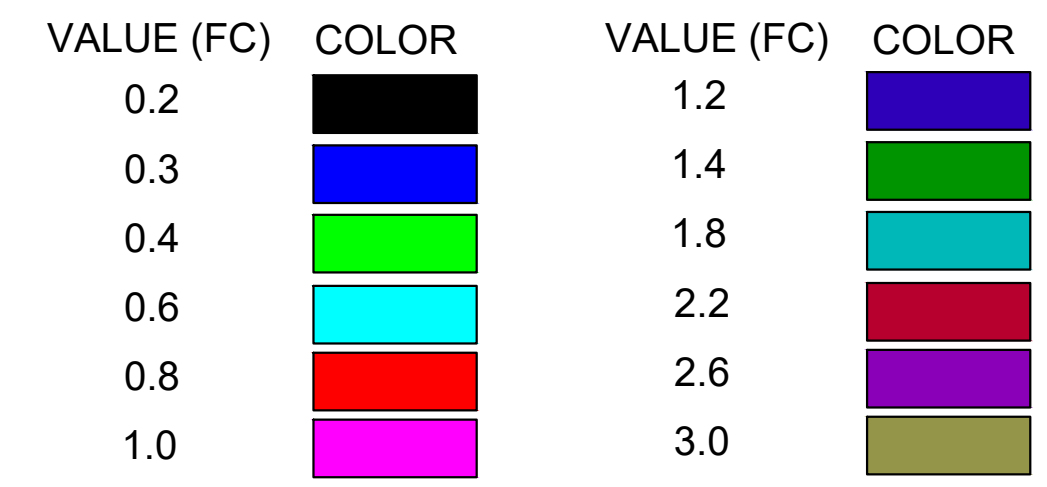
SHEET C-1027
 SCALE 1" = 25'

Plotted By: Agnew, Price Sheet Set: West End Transitway - Phase 1 Layout: C-1028 LIGHTING PLAN September 05, 2024 01:41:30pm \\nvafp01\at_nv22\NVA_Transit\110104122_West_End_Transitway_Design\CADD\PlanSheets\LIGHTING PLAN - PHOTOMETRICS.dwg



NOTE:
 1. REFER TO SHEET C-1014 FOR ELECTRICAL AND POLE LOCATION INFORMATION.
 2. REFER TO SHEET A-103 FOR SHELTER LIGHTING DETAILS.

N BEAUREGARD AND KING CALCULATION SUMMARY									
LABEL	CALC TYPE	UNITS	AVERAGE	TARGET AVG	MAX	MIN	AVG/MIN	TARGET AVG/MIN	MAX/MIN
NORTH TRANSIT STATION	ILLUMINANCE	FC	4.2	2.0	13.1	0.6	7.0	6.0	21.8
SOUTH TRANSIT STATION	ILLUMINANCE	FC	5.3	2.0	14.9	0.5	10.6	6.0	29.8
NORTH SIDEWALK	ILLUMINANCE	FC	2.4	1.0	13.1	0.3	7.9	6.0	43.7
SOUTH SIDEWALK	ILLUMINANCE	FC	5.3	1.0	14.9	0.5	10.6	6.0	29.8
BEAUREGARD SOUTHBOUND	ILLUMINANCE	FC	0.8	0.6	2.6	0.2	4.2	6.0	13.0
BEAUREGARD NORTHBOUND	ILLUMINANCE	FC	1.1	0.6	3.2	0.6	1.8	6.0	5.3



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS 90% DESIGN PHASE



CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

REVISIONS	DESCRIPTION
DATE	BY

ALEXANDRIA PROJECT NO.: 110104122
 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: KAP DATE: 4/5/24
 DRAWN BY: KAP DATE: 4/5/24
 CHECKED BY: EJD DATE: 4/5/24
 APPROVED BY: _____ DATE: _____

PHOTOMETRIC PLAN - N
 BEAUREGARD STREET AT
 KING STREET

SHEET
 C-1028
 SCALE 1" = 25'

Plotted By: Agnew, Price Sheet Set: West End Transitway - Phase 1 Layout: C-1029 LIGHTING PLAN September 05, 2024 01:41:36pm \\svafp01\at_nva2\NVA_Transit\10104122_West_End_Transitway_Design\CADD\PlanSheets\LIGHTING_PLAN - PHOTOMETRICS.dwg



Cobra

- Basic Style Luminaire
- 3000K & 4000K Color Temperature
- Type II & III Lighting Pattern
- Molded Compound Housing
- 70W HID Equivalent Fixture (min. 3500 Lumens) Rate Tier 1 (26W)
- 100W HID Equivalent Fixture (min. 5000 Lumens) Rate Tier 2 (41W)
- 150W HID Equivalent Fixture (min. 8000 Lumens) Rate Tier 3 (76W)
- 250W HID Equivalent Fixture (min. 15,000 Lumens) Rate Tier 5 (125W)
- 400W HID Equivalent Fixture (min. 22,000 Lumens) Rate Tier 7 (202W)
- 1000W HID Equivalent Fixture (min. 32,000 Lumens) Rate Tier 10 (244W)

Options:

- Black housing for 70W, 100W, and 150W equivalent fixtures
- Type II lighting pattern available for 70W, 100W, and 150W equivalent fixtures



Carlyle Acorn

- Basic Style Luminaire
- 3000K & 4000K Color Temperature
- Type III Lighting Pattern
- Internal Glass Refractor For Light Control
- 70W HID Equivalent Fixture (min. 3000 Lumens) Rate Tier 1 (26W)
- 100W HID Equivalent Fixture (min. 5000 Lumens) Rate Tier 2 (39W)
- 150W HID Equivalent Fixture (min. 7000 Lumens) Rate Tier 3 (60W)
- 250W HID Equivalent Fixture (min. 9000 Lumens) Rate Tier 3 (80W)



Outdoor Lighting Pole Specifications

Smooth Round Tapered Aluminum Direct Embed for Side Mounted Luminaires



Smooth round tapered poles constructed of aluminum alloy for side mounted luminaires. Single arm or two arms at 180 degrees. Poles are directly embedded for use with underground supplied conductors only.

Light fixtures that match well with this pole include:

- Basic LED Cobra style
- Basic LED Open Vertical (Area)
- Basic LED Shoebox style

POLE SPECIFICATIONS

ARM MOUNTING HEIGHT (ft)	TOTAL POLE LENGTH (ft)	BUTT DIAMETER* (in)	GROUNDLINE DIAMETER (in)	EMBED or ANCHOR BASE	FINISH COLOR	WMIS CU	POLE ONLY STOCK #
17.0	22.0	4.5	8.0	Embed	Natural Aluminum	PA22	42336282
17.0	22.0	4.5	8.0	Embed	Black RAL-9017	PA22B	42336283
22.0	27.0	4.5	8.0	Embed	Natural Aluminum	PA27	42336284
22.0	27.0	4.5	8.0	Embed	Black RAL-9017	PA27B	42336285
27.0	33.0	4.5	10.0	Embed	Natural Aluminum	PA33	42336286
27.0	33.0	4.5	10.0	Embed	Black RAL-9017	PA33B	42336287
32.0	38.0	4.5	10.0	Embed	Natural Aluminum	PA38	42336288
32.0	38.0	4.5	10.0	Embed	Black RAL-9017	PA38B	42336299
37.0	43.0	4.5	10.0	Embed	Natural Aluminum	PA43	42336300
37.0	43.0	4.5	10.0	Embed	Black RAL-9017	PA43B	42336301

Many localities have restrictions on light distribution and placement of outdoor lighting equipment. Consult with your local government before selecting outdoor lighting equipment.

90% DESIGN PHASE



CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

REVISIONS
DATE BY DESCRIPTION

ALEXANDRIA PROJECT NO.: 110104122
DATE OF PLAN ISSUANCE: N/A
CONSULTANT PROJECT ID: N/A
DESIGNED BY: VALUE DATE: 4/5/24
DRAWN BY: VALUE DATE: 4/5/24
CHECKED BY: VALUE DATE: 4/5/24
APPROVED BY: VALUE DATE:

WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

C-1029 LIGHTING PLAN

SHEET
C-1029
SCALE N/A

EROSION AND SEDIMENT CONTROL PLAN NARRATIVE

PROJECT DESCRIPTION

THE PURPOSE OF THE PROJECT IS TO PROVIDE BUS RAPID TRANSIT (BRT) STATIONS ON VAN DORN STREET BETWEEN METRO ROAD AND SANGER AVENUE AND ON BEAUREGARD STREET BETWEEN SANGER AVENUE AND KING STREET.

THE TOTAL AREA OF DISTURBANCE REQUIRED FOR THIS PROJECT IS APPROXIMATELY 212,243 SQUARE FEET OR 4.9 ACRES.

EXISTING SITE CONDITIONS

THE EXISTING SITE CONSISTS PUBLIC ROADWAY WHICH PROVIDES SERVICE TO VARIOUS RESIDENTIAL, COMMERCIAL, AND PRIVATE PROPERTIES.

DATE OF CONSTRUCTION

CONSTRUCTION IS ANTICIPATED TO BEGIN AT THE TIME OF FINAL SITE PLAN APPROVAL.

ADJACENT AREAS

THE SITE IS SURROUNDED BY MIXED-USE COMMERCIAL AND RESIDENTIAL BUILDINGS.

OFFSITE AREAS

NO OFFSITE WORK IS ANTICIPATED. ALL NECESSARY EASEMENTS WILL BE ACQUIRED PRIOR TO LAND DISTURBANCE.

STRUCTURAL PRACTICES

- SAFETY FENCE – 3.01
SAFETY FENCE SHALL BE INSTALLED AROUND THE CONSTRUCTION SITE AS PROTECTIVE BARRIER TO PREVENT UNDESIRABLE ACCESS TO THE SITE WHILE ALLOWING THE CONTINUATION OF NECESSARY CONSTRUCTION OPERATIONS.
- CONSTRUCTION ENTRANCE – 3.02
TEMPORARY CONSTRUCTION ENTRANCES WITH WASH RACK SHALL BE INSTALLED AS SHOWN ON THE PLAN. CONSTRUCTION VEHICLES SHALL BE REQUIRED TO WASH THEIR WHEELS BEFORE LEAVING THE SITE. A WATER TANK TRUCK SHALL PROVIDE WATER IF PUBLIC WATER IS NOT AVAILABLE. THE ENTRANCE SHALL BE FIELD ADJUSTED AS REQUIRED DURING CONSTRUCTION. THE RESULTING SILTATION FROM THE CONSTRUCTION ENTRANCE SHALL BE CONTROLLED BY SILT FENCING AND AS NOTED ON THE PLANS.
- SILT FENCE BARRIER ON PAVEMENT
SILT FENCE SEDIMENT BARRIERS SHALL BE INSTALLED AS SHOWN ON THE APPROVED PLAN TO FILTER SEDIMENT-LADEN RUNOFF FROM THE CONSTRUCTION AREA.
- STORM DRAIN INLET PROTECTION
ALL STORM SEWER INLETS INVOLVED SHALL BE PROTECTED DURING CONSTRUCTION. SEDIMENT-LADEN WATER SHALL BE FILTERED BEFORE ENTERING THE STORM SEWER INLETS. GUTTER GATOR INLET SHALL BE USED IN THE PUBLIC RIGHT OF WAYS.

VEGETATIVE PRACTICES

- TOPSOIL STOCKPILING ON-SITE IS NOT ANTICIPATED. FOR BORROW SOIL STOCKPILING THAT WOULD BE DEEMED NECESSARY, THE E&S CONTROL NOTE ON STOCKPILED MATERIALS WOULD APPLY.
- PERMANENT SEEDING – 3.32
TO PERMANENTLY STABILIZE UNPAVED DISTURBED AREAS, SEED WITH GRASS SUITABLE FOR THE SITE.
- SODDING – 3.33
WHEREVER PERMANENT VEGETATIVE COVER HAS NOT BEEN ESTABLISHED THROUGH SEEDING MEASURES THE CONTRACTOR SHALL INSTALL STAKED SOD IN ACCORDANCE WITH STATE GUIDELINES TO PROVIDE PERMANENT VEGETATIVE COVER.
- DUST CONTROL – 3.39
TO PREVENT SURFACE AND AIR MOVEMENT OF DUST FROM EXPOSED SOIL SURFACES THE SITE WILL BE SPRINKLED WITH WATER UNTIL THE SURFACE IS WET AND REPEATED AS NEEDED.
- TEMPORARY SEEDING – 3.31
ALL DENUDED AREAS THAT WILL BE LEFT DORMANT FOR EXTENDED PERIODS OF TIME SHALL BE SEEDED WITH FAST GERMINATING TEMPORARY VEGETATION IMMEDIATELY FOLLOWING GRADING. SELECTION OF THE SEED MIXTURE WILL DEPEND ON THE TIME OF THE YEAR.

PERMANENT STABILIZATION

ALL AREAS DISTURBED BY CONSTRUCTION SHALL BE STABILIZED WITH PERMANENT SEEDING IMMEDIATELY FOLLOWING FINISHED GRADING.

ACCORDING TO STANDARD AND SPECIFICATION 3.32, THE PERMANENT SEEDING, OF THE HANDBOOK, IN ALL SEEDING OPERATIONS, SEED, FERTILIZER, AND LIME WILL BE APPLIED PRIOR TO MULCHING.

BEST MANAGEMENT PRACTICES

BMP WILL BE PROVIDED WITH EXISTING FACILITIES ONSITE.

CONSTRUCTION PHASING

THIS SITE PLAN REFLECTS TWO STAGES OF EROSION AND SEDIMENT CONTROL PROCEDURES TO ADDRESS ADOPTION OF EROSION AND SEDIMENT CONTROL MEASURES TO CHANGES IN SITE CONDITIONS.

PHASE I – IN GENERAL, PHASE I ADDRESSES THE PERIMETER CONTROLS DURING CLEARING AND ROUGH GRADING ACTIVITIES RELATED TO THE INFRASTRUCTURE CONSTRUCTION OPERATIONS AND PROTECTION OF EXISTING DRAINAGE STRUCTURES.

PHASE II – COVERS SHORT AND LONG TERM PROTECTION AND STABILIZATION OF FINAL GRADE IN DENUDED AREAS AND THE PROTECTION OF EXISTING AND PROPOSED DRAINAGE STRUCTURES.

SEDIMENT CONTROL PROGRAM

PHASE I EROSION CONTROL

ALL PROPOSED CONTROLS AS SHOWN ON THE PHASE I EROSION AND SEDIMENT CONTROL PLAN SHALL BE IN PLACE PRIOR TO COMMENCING SITE WORK. PHASE I PROGRAM SHALL PROCEED AS FOLLOWS:

- INSTALL INLET PROTECTION ON STORM STRUCTURES TO BE AFFECTED BY THE PROPOSED CONSTRUCTION.
- INSTALL PERIMETER SAFETY AND SILT FENCE AS SHOWN ON THE PLAN.
- START DEMOLITION AND REMOVAL OF EXISTING ASPHALT PAVEMENT AND CURB & GUTTER.

THE CONTRACTOR SHALL RECEIVE VERIFICATION FROM THE CITY OF ALEXANDRIA'S INSPECTOR THAT THE EROSION AND SEDIMENT CONTROL MEASURES ARE FUNCTIONING PROPERLY PRIOR TO PROCEEDING WITH SITE WORK. ALL PHASE I CONTROLS WILL REMAIN IN PLACE UNTIL SUCH TIME THAT THE SITE INSPECTOR APPROVED THEIR REMOVAL.

PHASE II – FINAL CONSTRUCTION ACTIVITIES

PHASE II SILTATION CONTROL PROGRAM IS IMPLEMENTED DURING SITE STABILIZATION AS SOON AS TEMPORARY GRADE IS ESTABLISHED AFTER THE CONSTRUCTION OF NEW UTILITIES AND THE MODIFICATIONS OF THE ROADWAY. REFER TO THE PHASE II EROSION AND SEDIMENT CONTROL PLANS.

NO SILT LADEN WATER WILL BE PERMITTED TO FLOW INTO THE EXISTING WATER QUALITY (BMP) FACILITIES. INSPECTION OF THE EXISTING BMP STRUCTURES WILL BE PERFORMED, AND THE UNITS CLEANED AND/OR MEDIA REPLACED TO RESTORE THE STRUCTURES TO A PROPER WORKING STATE.

THE CONTRACTOR SHALL COMPARE THE PRE-DEVELOPMENT INSPECTION TO THE POST-DEVELOPMENT INSPECTION TO DETERMINE IF CONSTRUCTION ACTIVITIES IMPACTED THE BMP FACILITIES.

AFTER CONSTRUCTION OPERATIONS HAVE ENDED, ALL DISTURBED AREAS ARE STABILIZED, MECHANICAL SEDIMENT CONTROL MEASURES SHALL BE REMOVED AND THE GROUND STABILIZED WITH VEGETATION UPON APPROVAL OF THE CITY OF ALEXANDRIA'S INSPECTOR.

MANAGEMENT STRATEGIES

- CONSTRUCTION SHALL BE SEQUENCED SO THAT EXCAVATION AND GRADING OPERATIONS CAN BEGIN AND END AS QUICKLY AS POSSIBLE.
- SEDIMENT TRAPPING MEASURES SHALL BE INSTALLED AS A FIRST STEP IN GRADING AND WILL BE SEEDED AND MULCHED IMMEDIATELY AFTER INSTALLATION.
- TEMPORARY SEEDING OR OTHER STABILIZATION SHALL FOLLOW IMMEDIATELY AFTER GRADING.
- AREAS WHICH ARE NOT TO BE DISTURBED SHALL BE CLEARLY MARKED.
- THE JOB SUPERINTENDENT SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL PRACTICES.

MANAGEMENT STRATEGIES

- SAFETY FENCES SHALL BE CHECKED REGULARLY FOR WEATHER-RELATED DAMAGES. CARE SHOULD ALSO BE TAKEN TO SECURE ALL ACCESS POINTS AT THE END OF EACH WORKING DAY. ALL LOCKING DEVICES MUST BE REPAIRED OR REPLACED AS NECESSARY.
- THE CONSTRUCTION ENTRANCES SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE OR THE WASHING AND REWORKING OF EXISTING STONE AS CONDITIONS DEMAND. ALL MATERIALS SPILLED, DROPPED, WASHED OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.
- THE INLET PROTECTION SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRS MADE AS NEEDED. SEDIMENT SHALL BE REMOVED AND THAT AREA STABILIZED WHEN THE SEDIMENT HAS ACCUMULATED TO ONE HALF OF THE DESIGN DEPTH OF THE TRAP.
- THE SILT FENCE BARRIER WILL BE CHECKED REGULARLY FOR UNDERMINING OR DETERIORATION OF THE FABRIC. SEDIMENT SHALL BE REMOVED WHEN THE LEVEL OF SEDIMENT DEPOSITION REACHES HALF WAY TO THE TOP OF THE BARRIER.
- THE STILLING AND PUMPING BASINS WILL BE CHECKED REGULARLY AND WILL BE CLEANED OUT WHEN THE LEVEL OF SEDIMENT BUILDUP REACHES THE CLEANOUT POINT.
- THE SEEDING AREAS WILL BE CHECKED REGULARLY TO ENSURE THAT A GOOD STAND IS MAINTAINED. AREAS SHOULD BE FERTILIZED AND SEEDED AS NEEDED.

EROSION AND SEDIMENT CONTROL PLAN STANDARD NOTES

- AN EROSION AND SEDIMENT CONTROL PLAN MUST BE APPROVED BY THE DIRECTOR OF TRANSPORTATION AND ENVIRONMENTAL SERVICES PRIOR TO ANY LAND DISTURBING ACTIVITY GREATER THAN 2,500 SQUARE FEET.
- ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE CONSTRUCTED AND MAINTAINED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS OF THE CITY OF ALEXANDRIA AND VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK (VESCH), VIRGINIA REGULATIONS 54VAC50-30 EROSION AND SEDIMENT CONTROL REGULATIONS.
- AN EROSION AND SEDIMENT CONTROL PLAN IS INCLUDED WITH THESE FINAL PLANS FOR APPROVAL BY THE DIRECTOR, TRANSPORTATION AND ENVIRONMENTAL SERVICES FOR REFERENCE BY THE EROSION AND SEDIMENT CONTROL PERMIT.
- A "CERTIFIED LAND DISTURBER" (CLD) SHALL BE NAMED IN A LETTER TO THE DIVISION CHIEF OF CONSTRUCTION AND INSPECTION (C&I), DEPARTMENT OF TRANSPORTATION AND ENVIRONMENTAL SERVICES PRIOR TO ANY LAND DISTURBING ACTIVITIES. IF THE CLD CHANGES DURING THE PROJECT, THAT CHANGE MUST BE NOTED IN A LETTER TO THE DIVISION CHIEF. A NOTE TO THIS EFFECT SHALL BE PLACED ON THE PHASE I EROSION AND SEDIMENT CONTROL SHEETS ON THE SITE PLAN.
- THE DEPARTMENT OF TRANSPORTATION AND ENVIRONMENTAL SERVICES, CONSTRUCTION AND INSPECTION (C&I) DIVISION MUST BE NOTIFIED ONE WEEK PRIOR TO THE PRE-CONSTRUCTION CONFERENCE, ONE WEEK PRIOR TO THE COMMENCEMENTS OF LAND DISTURBING ACTIVITY, AND ONE WEEK PRIOR TO THE FINAL INSPECTION. THE RESPONSIBLE CERTIFIED LAND DISTURBER (CLD) SHALL ATTEND THE PRE-CONSTRUCTION MEETING.
- SEDIMENT BASINS AND TRAPS, PERIMETER DIKES, SEDIMENT BARRIERS AND ALL OTHER EROSION AND SEDIMENT CONTROL MEASURES INTENDED TO CONTROL EROSION AND TRAP SEDIMENT SHALL BE CONSTRUCTED AS A FIRST STEP IN ANY LAND DISTURBING ACTIVITY AND SHALL BE MADE FUNCTIONAL BEFORE UPSLOPE LAND DISTURBANCE TAKES PLACE.
- CONSTRUCTION SHALL BE SEQUENCED SUCH THAT GRADING OPERATION CAN BEGIN AND END AS QUICKLY AS POSSIBLE. AREAS NOT TO BE DISTURBED MUST BE CLEARLY MARKED OR FLAGGED.
- AN INSPECTION BY THE CITY OF ALEXANDRIA IS REQUIRED AFTER INITIAL INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND BEFORE AND CLEARING OR GRADING CAN BEGIN.
- A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
- PRIOR TO COMMENCING LAND DISTURBING ACTIVITIES IN AREAS OTHER THAN THOSE INDICATED ON THESE PLANS INCLUDING, BUT NOT LIMITED TO, OFF-SITE BORROW OR WASTE AREAS, THE CONTRACTOR SHALL SUBMIT A SUPPLEMENTARY EROSION CONTROL PLAN TO THE OWNER FOR REVIEW AND APPROVAL BY THE CITY OF ALEXANDRIA.
- THE DEVELOPER AND CONTRACTORS ARE TO KEEP DENUDED AREAS TO A MINIMUM. PERMANENT OR TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO DENUDED AREAS WITHIN SEVEN DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE. TEMPORARY SOIL STABILIZATION SHALL BE APPLIED WITHIN SEVEN DAYS TO DENUDED AREAS THAT MAY NOT BE AT FINAL GRADE BUT WILL REMAIN DORMANT FOR LONGER THAN 30 DAYS. PERMANENT STABILIZATION SHALL BE APPLIED TO AREAS THAT ARE TO BE LEFT DORMANT FOR MORE THAN ONE YEAR. ANY STOCKPILED MATERIAL WHICH WILL REMAIN IN PLACE LONGER THAN 10 DAYS MUST BE SEEDED FOR TEMPORARY VEGETATION AND MULCHED WITH STRAW MULCH OR OTHERWISE STABILIZED.
- ALL TEMPORARY EARTH BERMS, DIVERSIONS AND SEDIMENT CONTROL DAMS SHALL BE SEEDED AND MULCHED OR OTHERWISE STABILIZED AS SOON AS POSSIBLE BUT NOT LATER THAN 48 HOURS AFTER GRADING.
- ALL DISTURBED AREAS ARE TO DRAIN TO APPROVED SEDIMENT CONTROL MEASURES AT ALL TIMES DURING LAND DISTURBING ACTIVITIES AND DURING SITE DEVELOPMENT UNTIL FINAL STABILIZATION IS ACHIEVED.
- DURING DEWATERING OPERATIONS, WATER SHALL BE PUMPED THROUGH AN APPROVED FILTERING DEVICE OR PASSED THROUGH AN APPROVED SEDIMENT TRAPPING DEVICE, OR BOTH, AND DISCHARGED IN A MANNER THAT DOES NOT ADVERSELY IMPACT FLOWING STREAMS OR OFF-SITE PROPERTY.
- THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES DAILY AND AFTER EACH RUNOFF-PRODUCING RAINFALL EVENT. ANY NECESSARY REPAIRS OR CLEANUP TO MAINTAIN THE EFFECTIVENESS OF THE EROSION CONTROL DEVICES SHALL BE MADE IMMEDIATELY.
- THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES AS NECESSARY TO PREVENT EROSION AND SEDIMENTATION AND AS DETERMINED BY THE DIRECTOR OF TRANSPORTATION AND ENVIRONMENTAL SERVICES (T&ES) OF THE CITY OF ALEXANDRIA.
- ANY DENUDED SLOPES, EITHER DISTURBED OR CREATED BY THIS PLAN THAT EXCEED 2,500 SQUARE FEET SHALL BE SODDED AND PEGGED FOR STABILITY AND EROSION CONTROL. AT THE COMPLETION OF THE PROJECT AND PRIOR TO THE RELEASE OF THE BOND, ALL DISTURBED AREAS SHALL BE STABILIZED PERMANENTLY AND ALL TEMPORARY EROSION AND SEDIMENT CONTROLS SHALL BE REMOVED.
- ALL VEHICLES SHALL BE CLEANED BEFORE ENTERING ONTO THE PUBLIC RIGHT-OF WAY.
- THE WASH WATER FROM THE CONSTRUCTION ENTRANCE SHALL BE FILTERED THROUGH THE PROVIDED SILTATION DEVICE TO ENSURE THAT NO SEDIMENT LADEN RUNOFF IS ALLOWED TO RUN OFF ON TO THE ADJACENT PROPERTY OR THE PUBLIC RIGHT-OF-WAY.
- INSTALL SILT FENCE WHERE APPLICABLE.
- DUST CONTROL SHALL BE ACCOMPLISHED BY TEMPORARY VEGETATIVE COVER AND BY IRRIGATION/WATER TRUCK AS NEEDED.
- UPON COMPLETION OF DEMOLITION, CONSTRUCTION AND LAND DISTURBING ACTIVITIES, PROVIDE PERMANENT STABILIZATION ACCORDING TO APPROVED METHODS AND REMOVE ALL REMAINING EROSION AND SEDIMENT CONTROL MEASURES WITH THE APPROVAL OF THE EROSION AND SEDIMENT CONTROL INSPECTOR.
- IF STOCKPILING IS REQUIRED ONSITE, THE CONTRACTOR SHALL COORDINATE WITH THE SITE INSPECTOR AND PROVIDE THE NECESSARY EROSION CONTROL MEASURES.
- VPDES PERMITS WILL BE APPLIED AND OBTAINED PRIOR TO CONSTRUCTION.
- LOW LEVELS OF SOIL AND GROUNDWATER CONTAMINATION EXIST ON SITE. CONTAMINATED GROUNDWATER MUST MEET EFFLUENT LIMITS PRIOR TO DISCHARGE.

CONCERNING UTILITY WORK

NO MORE THAN 500 LINEAR FEET OF TRENCH MAY BE OPENED AT ONE TIME. ALL EXCAVATED MATERIAL TO BE REPLACED INTO THE TRENCH SHALL BE STOCKPILED ON THE HIGH SIDE OF THE TRENCH. NO TRENCH WORK SHALL REMAIN OPEN AFTER THE END OF THE WORK DAY.

CONCERNING UTILITY WORK

THE PRE AND POST DEVELOPMENT PEAK RATES OF RUNOFF ARE COMPUTED BY THE RATIONAL METHOD USING THE CITY OF ALEXANDRIA INTENSITY DURATION-FREQUENCY (IDF) CURVES, DESIGN AND CONSTRUCTION STANDARDS, DEPARTMENT OF TRANSPORTATION AND ENVIRONMENTAL SERVICES, JULY 1989. ALL HYDROLOGIC ANALYSES RELATED TO PRE AND POST DEVELOPMENT ARE BASED ON THE EXISTING WATERSHED, CHARACTERISTICS AND THE ULTIMATE DEVELOPMENT OF THE SUBJECT PROJECT, RESPECTIVELY.

90% DESIGN PHASE



CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

REVISIONS	DESCRIPTION
DATE	BY

ALEXANDRIA PROJECT NO.:	110104122
DATE OF PLAN ISSUANCE:	N/A
CONSULTANT PROJECT ID.:	N/A
DESIGNED BY:	MAT DATE: 4/5/24
DRAWN BY:	MAT DATE: 4/5/24
CHECKED BY:	EJD DATE: 4/5/24
APPROVED BY:	DATE:


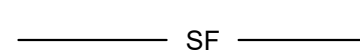
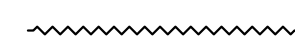
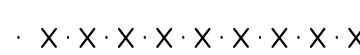

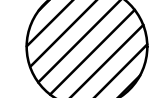
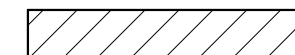
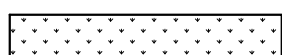
EROSION AND SEDIMENT CONTROL NARRATIVE AND NOTES

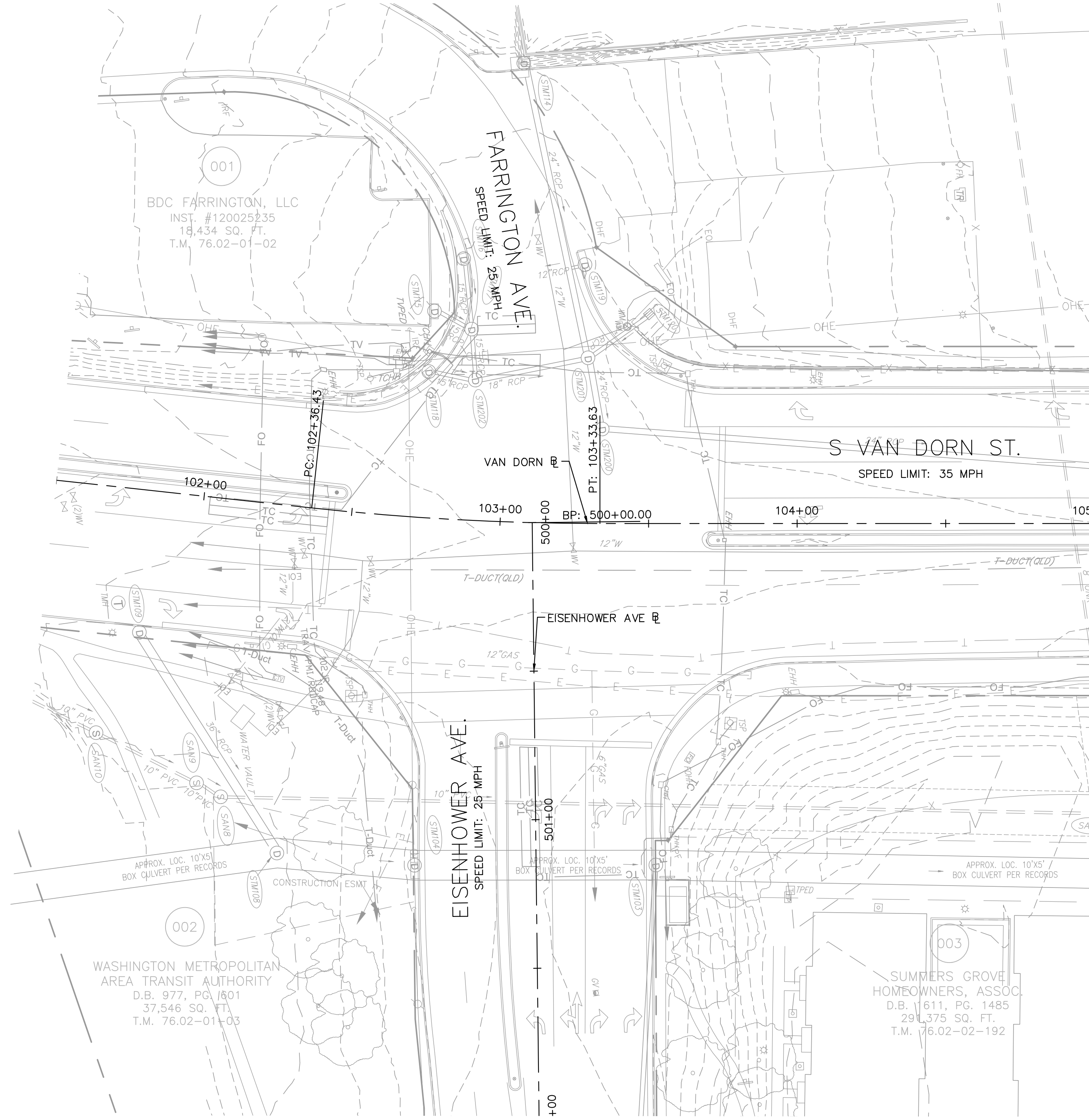
SHEET
C-1100
SCALE NTS

WEST END TRANSITWAY – PHASE 1 IMPROVEMENTS

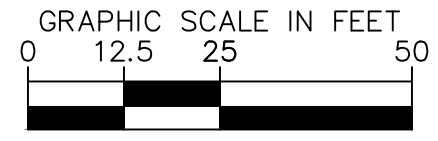
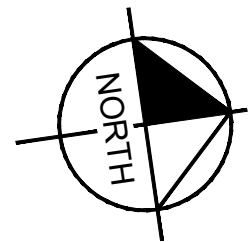
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DEMOLITION & EROSION AND SEDIMENT CONTROL LEGEND:

- | | | | |
|--|---------------------------------|---|--|
|  | REMOVE CONCRETE CURB AND GUTTER |  | SILT FENCE VDOT STD EC-5 |
|  | FULL DEPTH SAWCUT |  | REMOVE PIPE |
|  | REMOVE ASPHALT PAVEMENT |  | INLET PROTECTION VDOT STD. EC-6 TYPE A,B |
|  | REMOVE CONCRETE |  | CLEARING AND GRUBBING |



MATCHLINE STA. 105+00 SEE SHEET C-1102



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

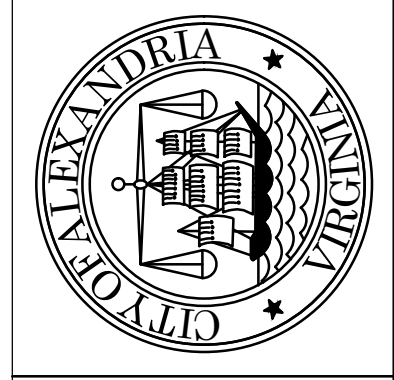
DEMOLITION, EROSION AND SEDIMENT CONTROL PHASE 1

SHEET
C-1101
SCALE 1" = 25'

ALEXANDRIA PROJECT NO.:	110104122
DATE OF PLAN ISSUANCE:	N/A
CONSULTANT PROJECT ID.:	N/A
DESIGNED BY:	MAT. DATE: 4/5/24
DRAWN BY:	AJB. DATE: 4/5/24
CHECKED BY:	EJD. DATE: 4/5/24
APPROVED BY:	DATE:

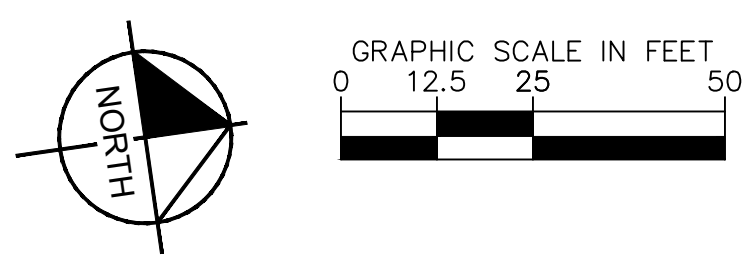
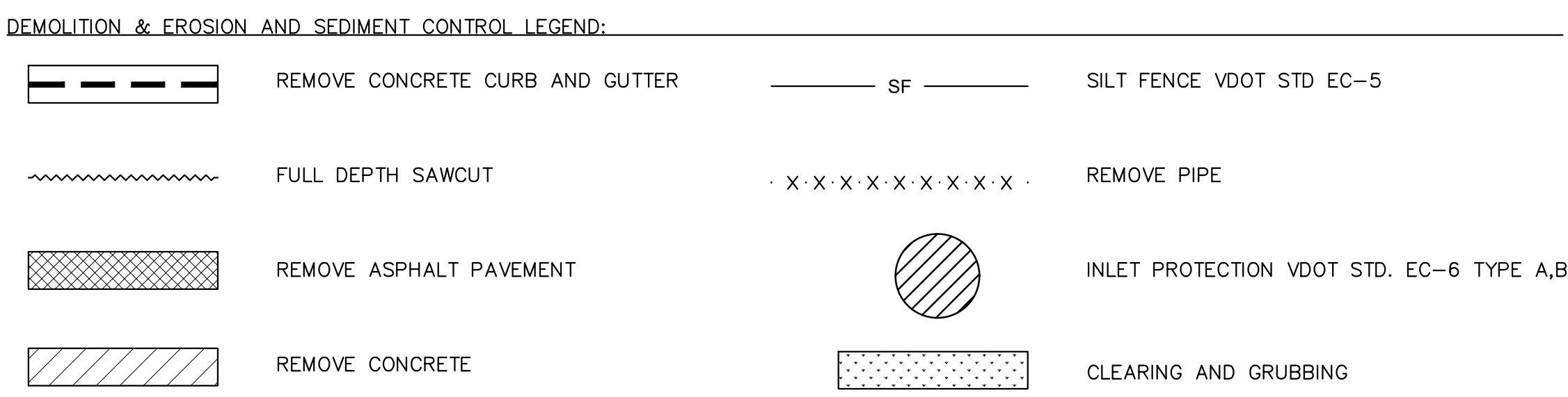
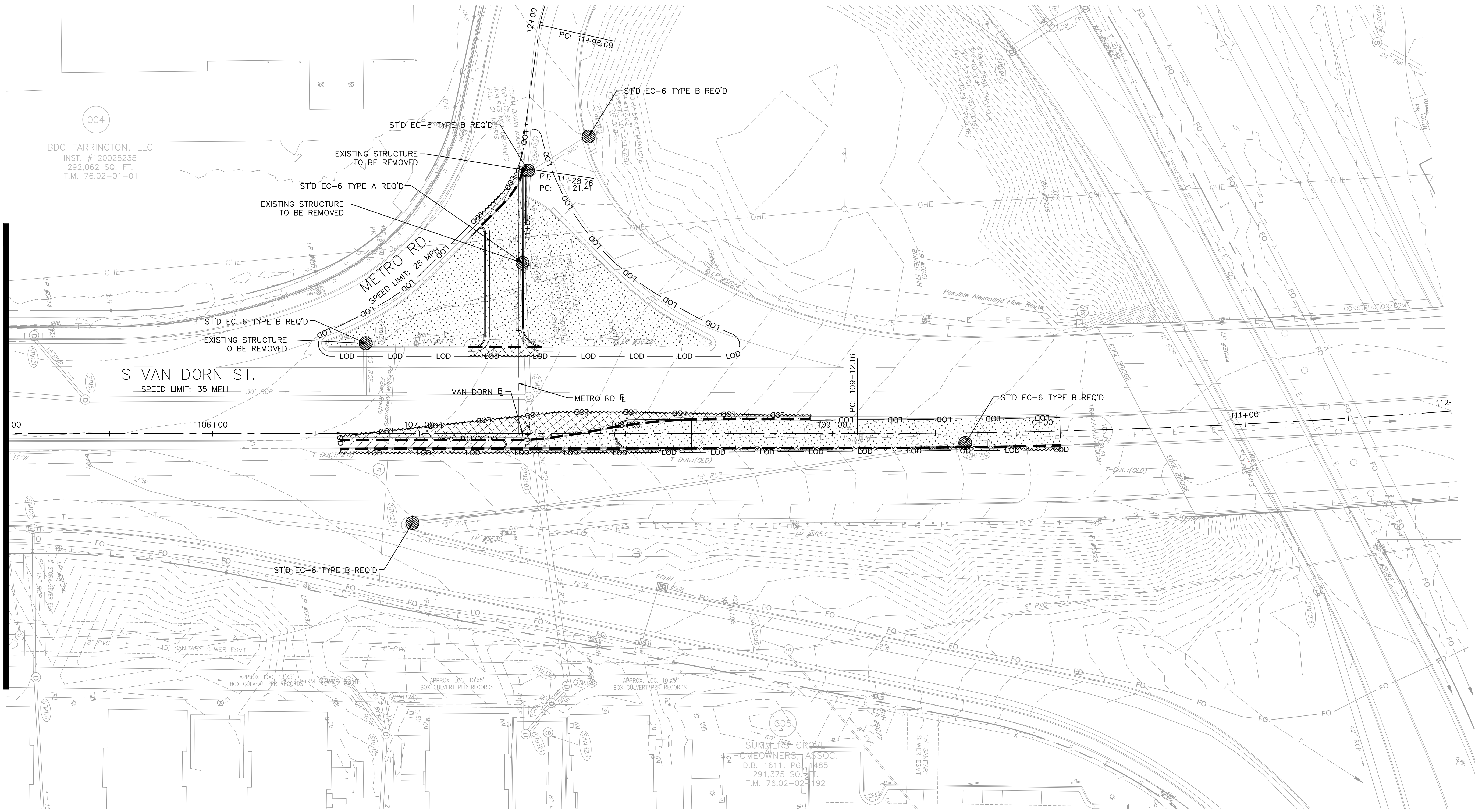
REVISIONS	DATE	DESCRIPTION

CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313



Plotted By: Waring, Megan
 Sheet Set: West End Transitway - Phase 1
 Layout: C-1102 DEMOLITION, EROSION & SEDIMENT CONTROL PHASE 1
 July 11, 2024 01:20:20pm
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MATCHLINE STA. 105+00 SEE SHEET C-1101



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

**DEMOLITION, EROSION
AND SEDIMENT CONTROL
PHASE 1**

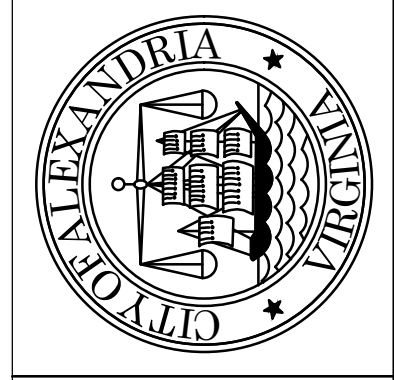
SHEET
C-1102
SCALE 1" = 25'

REVISIONS	DATE	DESCRIPTION

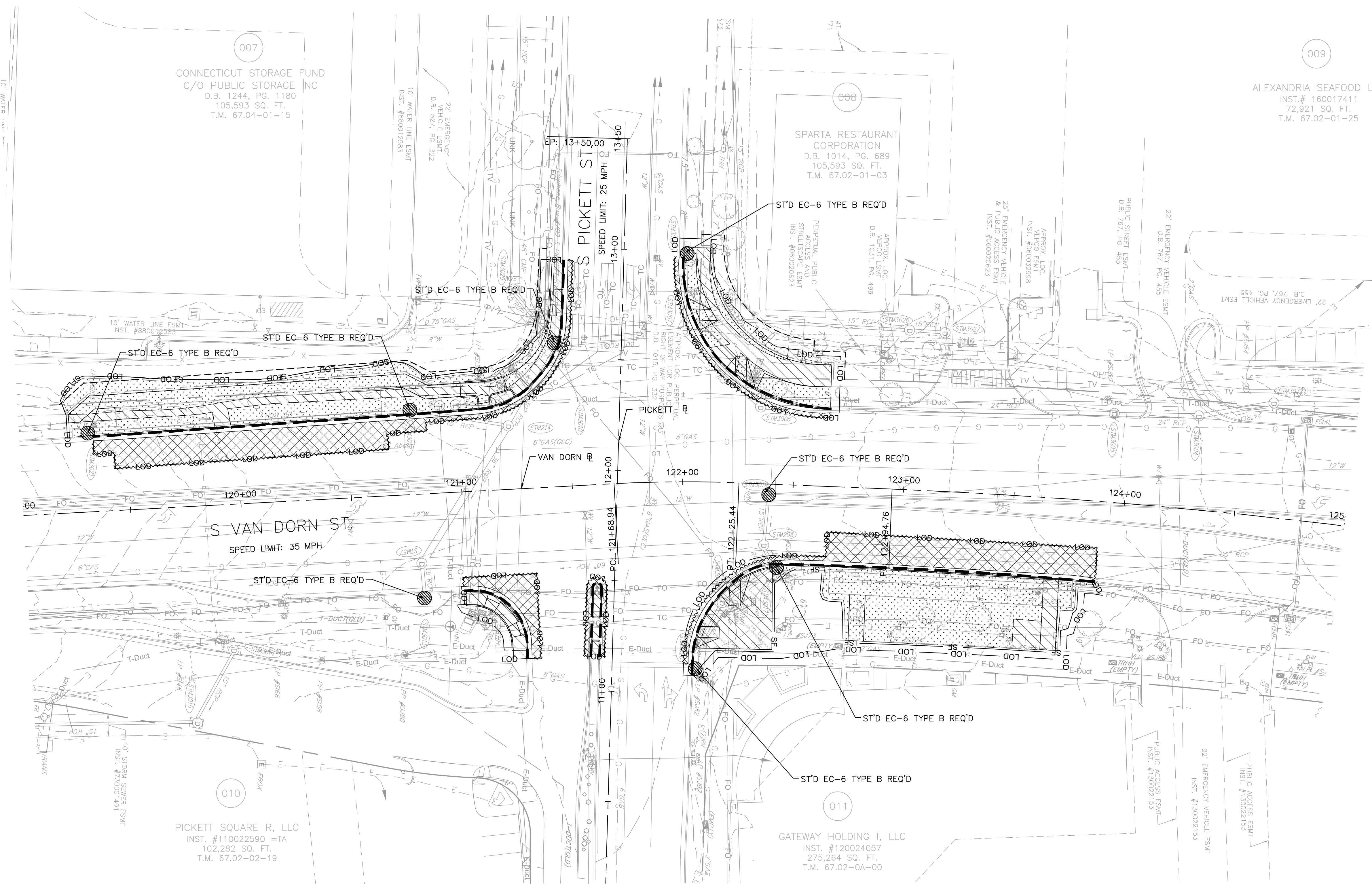
REVISIONS	DATE	DESCRIPTION

ALEXANDRIA PROJECT NO.: 110104122
 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: MAT DATE: 4/5/24
 DRAWN BY: AUB DATE: 4/5/24
 CHECKED BY: EJD DATE: 4/5/24
 APPROVED BY: _____ DATE: _____

CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

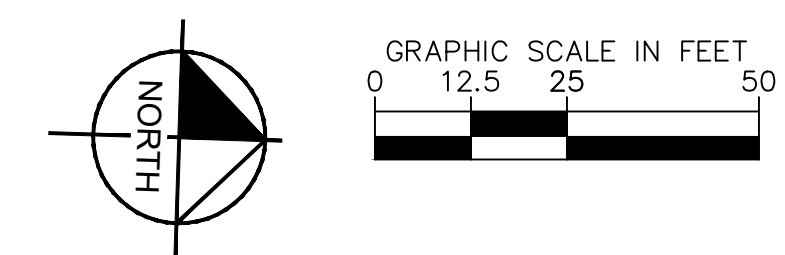


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DEMOLITION & EROSION AND SEDIMENT CONTROL LEGEND:

	REMOVE CONCRETE CURB AND GUTTER		SILT FENCE VDOT STD EC-5
	FULL DEPTH SAWCUT		REMOVE PIPE
	REMOVE ASPHALT PAVEMENT		INLET PROTECTION VDOT STD. EC-6 TYPE A,B
	REMOVE CONCRETE		CLEARING AND GRUBBING



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

DEMOLITION, EROSION AND SEDIMENT CONTROL PHASE 1

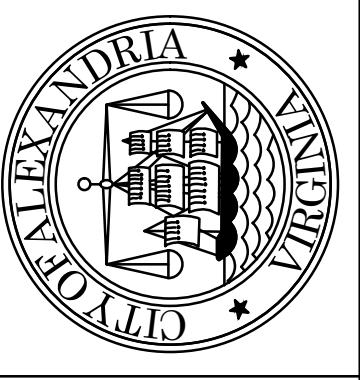
SHEET
C-1103
SCALE 1" = 25'

REVISIONS

DATE	DESCRIPTION

90% DESIGN PHASE

CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313



007
CONNECTICUT STORAGE FUND
C/O PUBLIC STORAGE INC
D.B. 1244, PG. 1180
105,593 SQ. FT.
T.M. 67.04-01-15

008
SPARTA RESTAURANT CORPORATION
D.B. 1014, PG. 689
105,593 SQ. FT.
T.M. 67.02-01-03


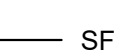
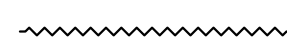
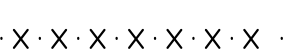


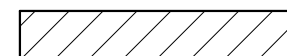
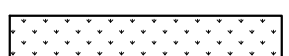
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ALEXANDRIA SEAFOOD LLC
INST. # 160017411
72,921 SQ. FT.
T.M. 67.02-01-25

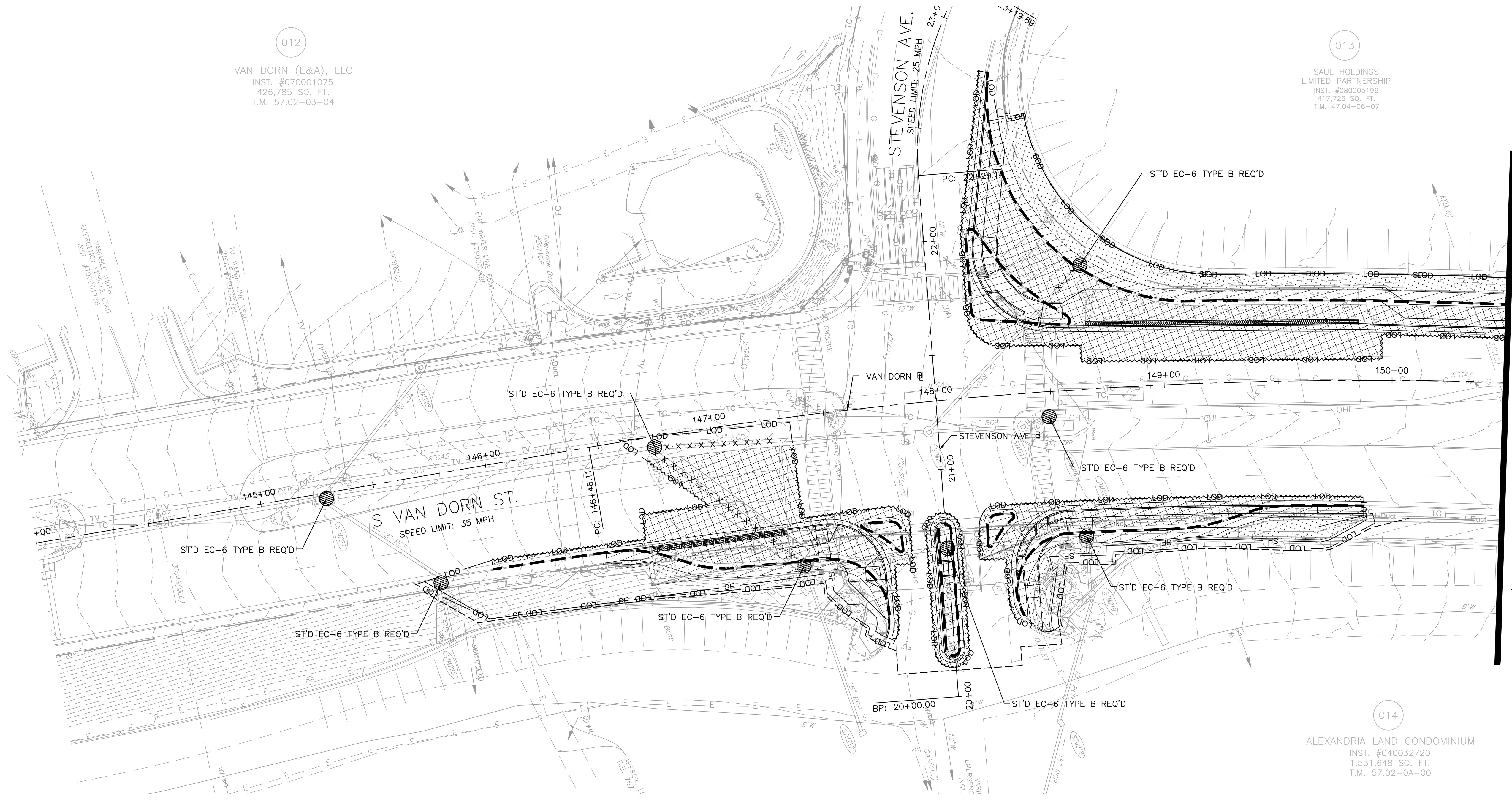
010
PICKETT SQUARE R, LLC
INST. #110022590 =TA
102,282 SQ. FT.
T.M. 67.02-02-19

011
GATEWAY HOLDING I, LLC
INST. #120024057
275,264 SQ. FT.
T.M. 67.02-0A-00

Plotted By: Phillips, Mark Sheet Set: West End Transitway - Phase 1 Layout: C-1104 DEMOLITION EROSION & SEDIMENT CONTROL PHASE 1 July 12, 2024 06:52:45am K:\NVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\DEMO AND E&S PLAN VAN DORN.dwg

DEMOLITION & EROSION AND SEDIMENT CONTROL LEGEND:

	REMOVE CONCRETE CURB AND GUTTER		SILT FENCE VDOT STD EC-5
	FULL DEPTH SAWCUT		REMOVE PIPE
	REMOVE ASPHALT PAVEMENT		INLET PROTECTION VDOT STD. EC-6 TYPE A,B
	REMOVE CONCRETE		CLEARING AND GRUBBING



012
 VAN DORN (E&A), LLC
 INST. #070001075
 426,785 SQ. FT.
 T.M. 57.02-03-04

013
 SAUL HOLDINGS
 LIMITED PARTNERSHIP
 INST. #080005196
 417,726 SQ. FT.
 T.M. 47.04-06-07

014
 ALEXANDRIA LAND CONDOMINIUM
 INST. #040032720
 1,531,648 SQ. FT.
 T.M. 57.02-0A-00

MATCHLINE STA. 150+50 SEE SHEET C-1105

WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

**DEMOLITION, EROSION
 AND SEDIMENT CONTROL
 PHASE 1**

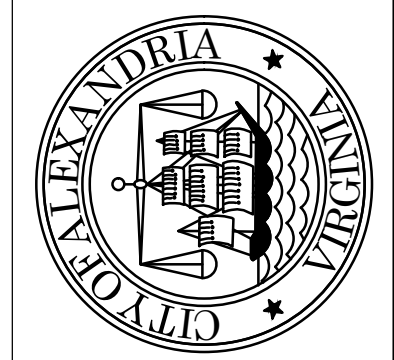
SHEET
 C-1104
 SCALE 1" = 25'

REVISIONS

DATE	DESCRIPTION

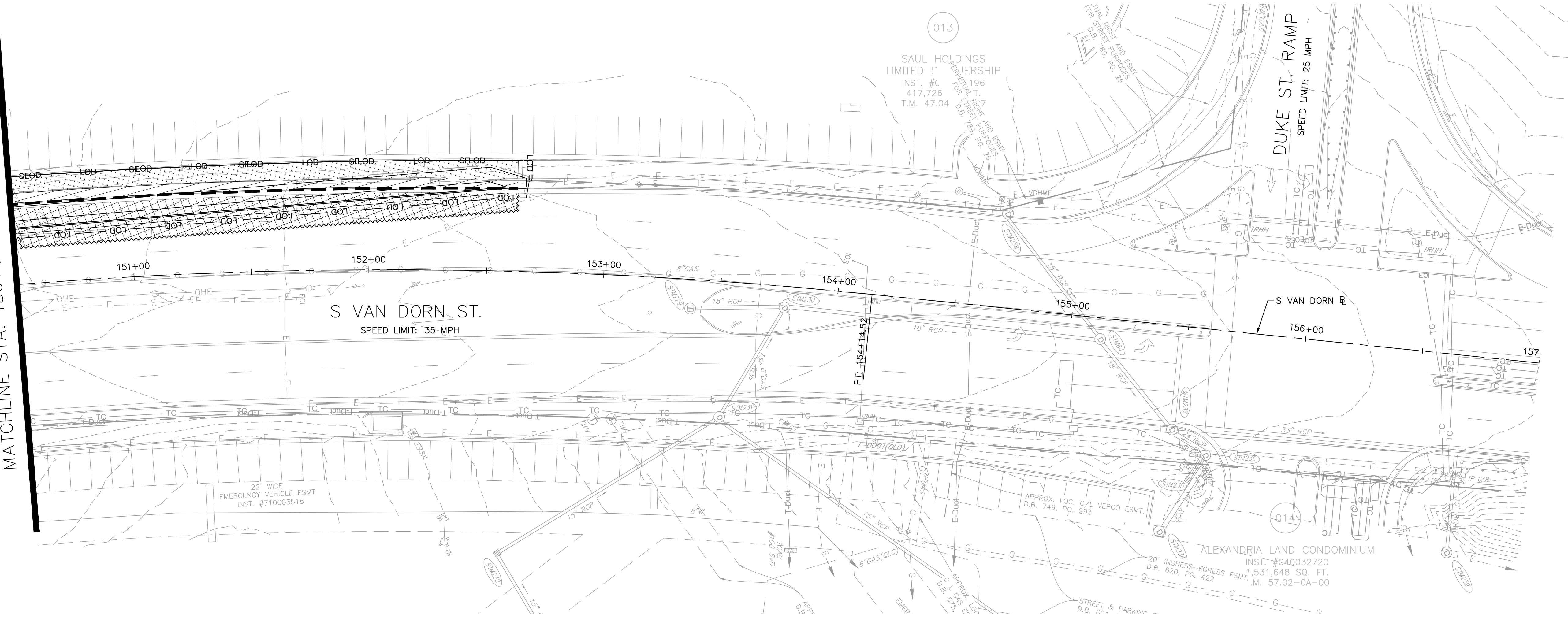
ALEXANDRIA PROJECT NO.: 110104122
 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: MAT. DATE: 4/5/24
 DRAWN BY: AUB. DATE: 4/5/24
 CHECKED BY: EJD. DATE: 4/5/24
 APPROVED BY: _____ DATE: _____

CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313



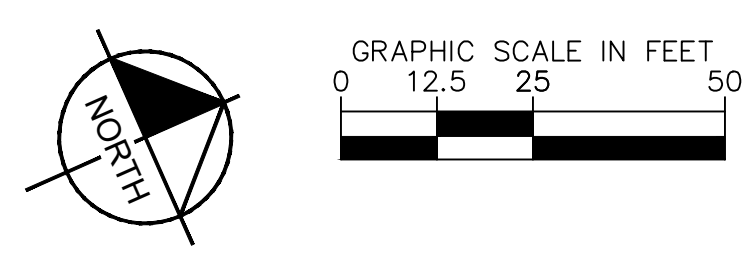
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MATCHLINE STA. 150+50 SEE SHEET C-1104



DEMOLITION & EROSION AND SEDIMENT CONTROL LEGEND:

	REMOVE CONCRETE CURB AND GUTTER		SILT FENCE VDOT STD EC-5
	FULL DEPTH SAWCUT		REMOVE PIPE
	REMOVE ASPHALT PAVEMENT		INLET PROTECTION VDOT STD. EC-6 TYPE A,B
	REMOVE CONCRETE		CLEARING AND GRUBBING



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

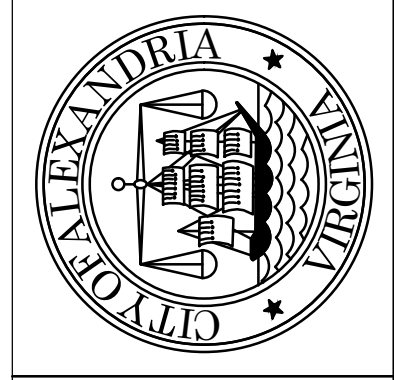
DEMOLITION, EROSION AND SEDIMENT CONTROL PHASE 1

SHEET
C-1105
SCALE 1" = 25'

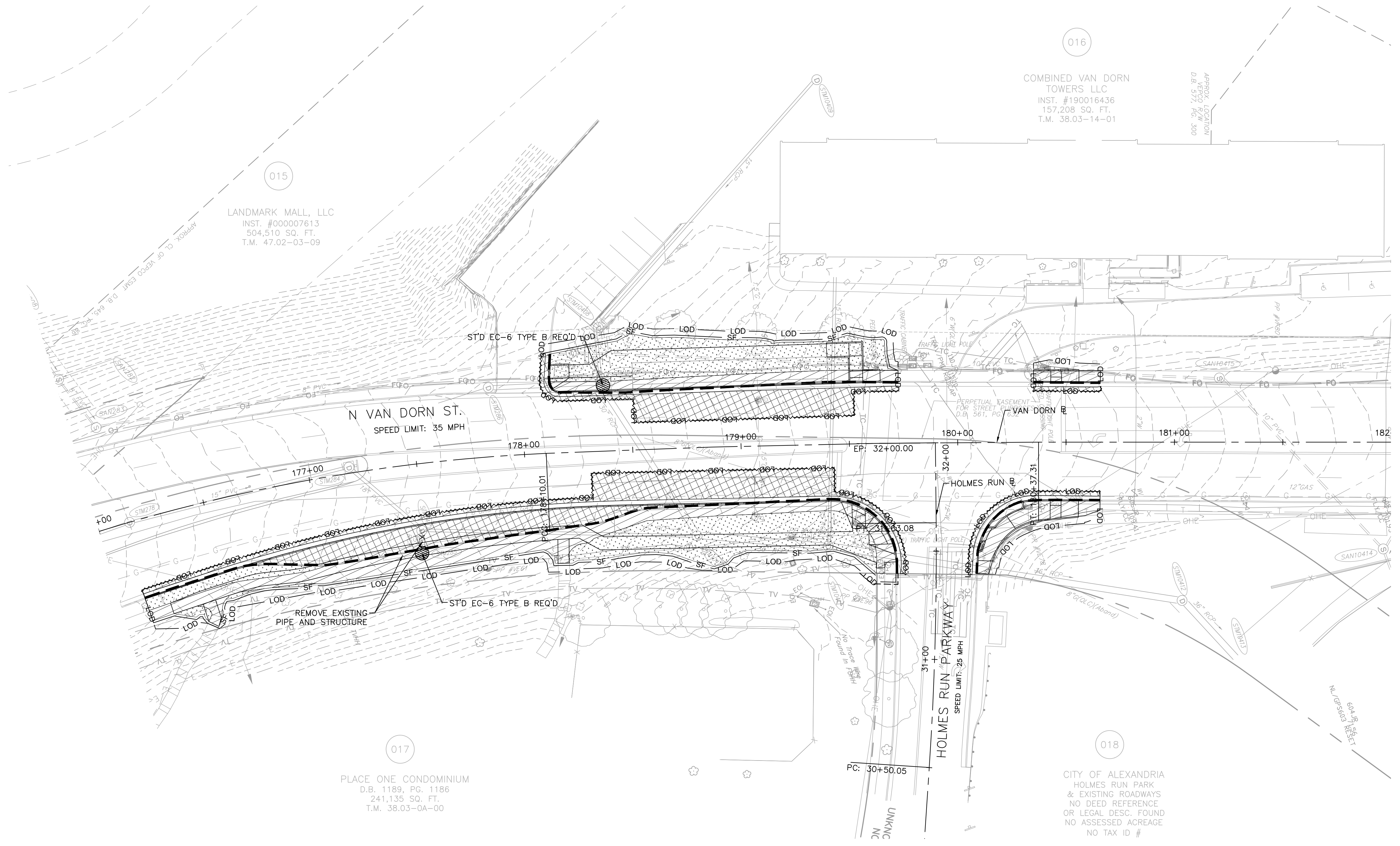
ALEXANDRIA PROJECT NO.:	110104122
DATE OF PLAN ISSUANCE:	N/A
CONSULTANT PROJECT ID.:	N/A
DESIGNED BY:	MAT. DATE: 4/5/24
DRAWN BY:	AJB. DATE: 4/5/24
CHECKED BY:	EJD. DATE: 4/5/24
APPROVED BY:	DATE:

REVISIONS	DESCRIPTION
BY	
DATE	


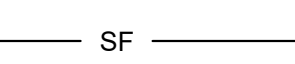
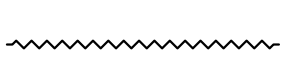
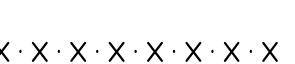


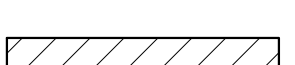
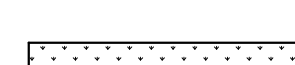
CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

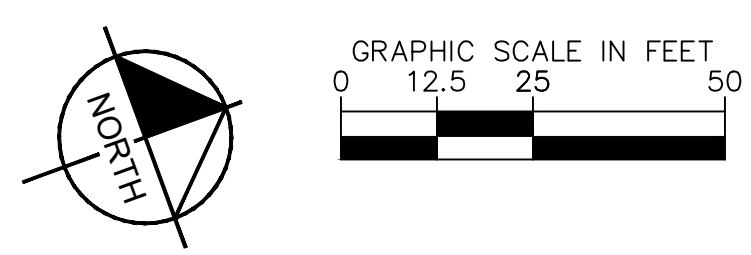


Plotted By: Waring, Megan Sheet Set: West End Transitway - Phase 1 Layout: C-1106 DEMOLITION EROSION & SEDIMENT CONTROL PHASE 1 July 11, 2024 01:21:09pm K:\NVA_Transit\10104122_West End Transitway Design\CADD\PlanSheets\DEMO AND E&S PLAN VAN DORN.dwg



DEMOLITION & EROSION AND SEDIMENT CONTROL LEGEND:

	REMOVE CONCRETE CURB AND GUTTER		SILT FENCE VDOT STD EC-5
	FULL DEPTH SAWCUT		REMOVE PIPE
	REMOVE ASPHALT PAVEMENT		INLET PROTECTION VDOT STD. EC-6 TYPE A,B
	REMOVE CONCRETE		CLEARING AND GRUBBING



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS **90% DESIGN PHASE**



CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

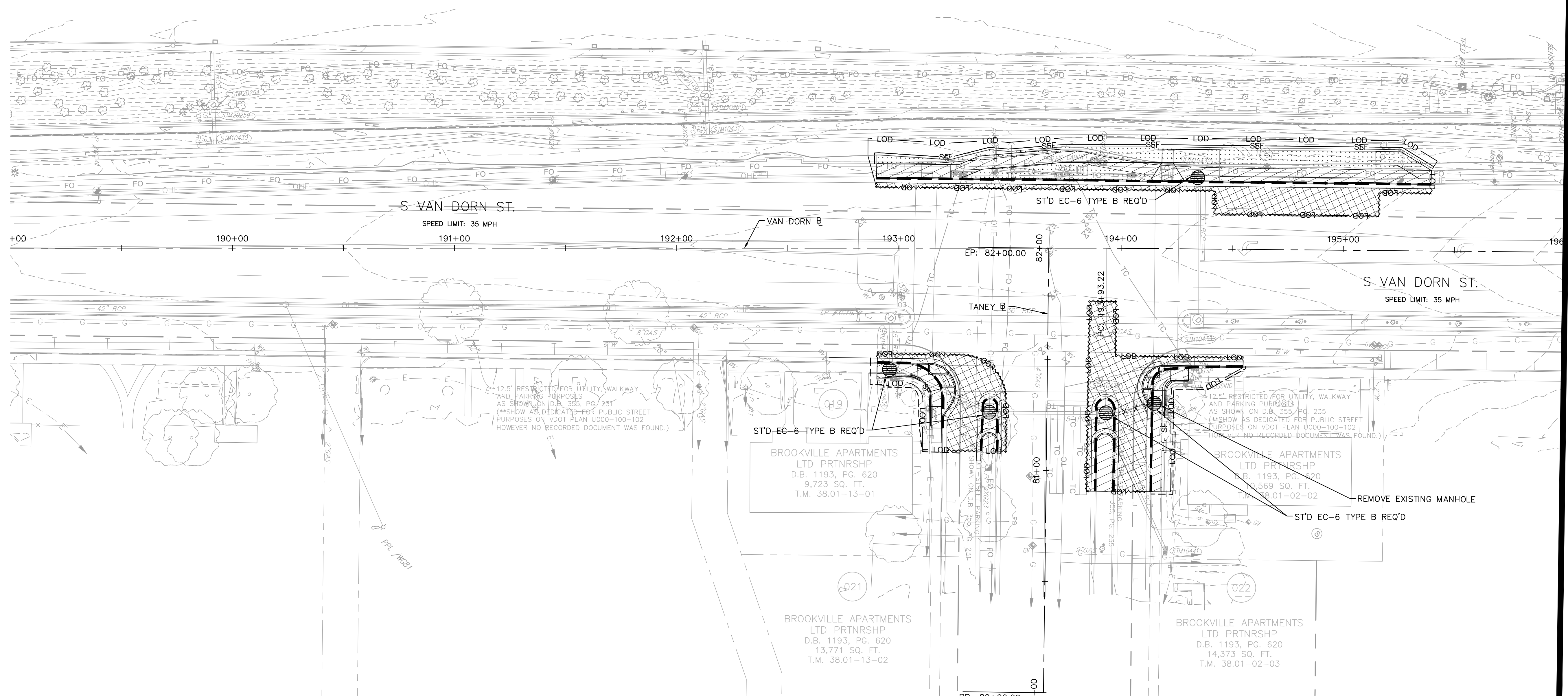
REVISIONS	DESCRIPTION
DATE	BY

ALEXANDRIA PROJECT NO.:	110104122
DATE OF PLAN ISSUANCE:	N/A
CONSULTANT PROJECT ID.:	N/A
DESIGNED BY:	MAT. DATE: 4/5/24
DRAWN BY:	AJB. DATE: 4/5/24
CHECKED BY:	EJD. DATE: 4/5/24
APPROVED BY:	DATE:

DEMOLITION, EROSION AND SEDIMENT CONTROL PHASE 1

SHEET
 C-1106
 SCALE 1" = 25'

Plotted By: Waring, Megan Sheet Set: West End Transitway - Phase 1 Layout: C-1107 DEMOLITION, EROSION & SEDIMENT CONTROL PHASE 1 July 11, 2024 01:21:21pm K:\NVA_Transit\10104122_West_End_Transitway_Design\CADD\PlanSheets\DEMO_AND_E&S_PLAN_VAN_DORN.dwg



DEMOLITION & EROSION AND SEDIMENT CONTROL LEGEND:

	REMOVE CONCRETE CURB AND GUTTER		SILT FENCE VDOT STD EC-5
	FULL DEPTH SAWCUT		REMOVE PIPE
	REMOVE ASPHALT PAVEMENT		INLET PROTECTION VDOT STD. EC-6 TYPE A,B
	REMOVE CONCRETE		CLEARING AND GRUBBING



MATCHLINE STA. 196+00 SEE SHEET C-1108

WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

DEMOLITION, EROSION AND SEDIMENT CONTROL PHASE 1

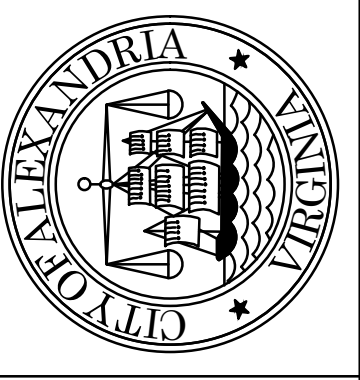
SHEET
 C-1107
 SCALE 1" = 25'

ALEXANDRIA PROJECT NO.:	110104122
DATE OF PLAN ISSUANCE:	N/A
CONSULTANT PROJECT ID.:	N/A
DESIGNED BY:	MAT. DATE: 4/5/24
DRAWN BY:	AUB. DATE: 4/5/24
CHECKED BY:	EJD. DATE: 4/5/24
APPROVED BY:	DATE:

REVISIONS	DESCRIPTION
DATE	
BY	

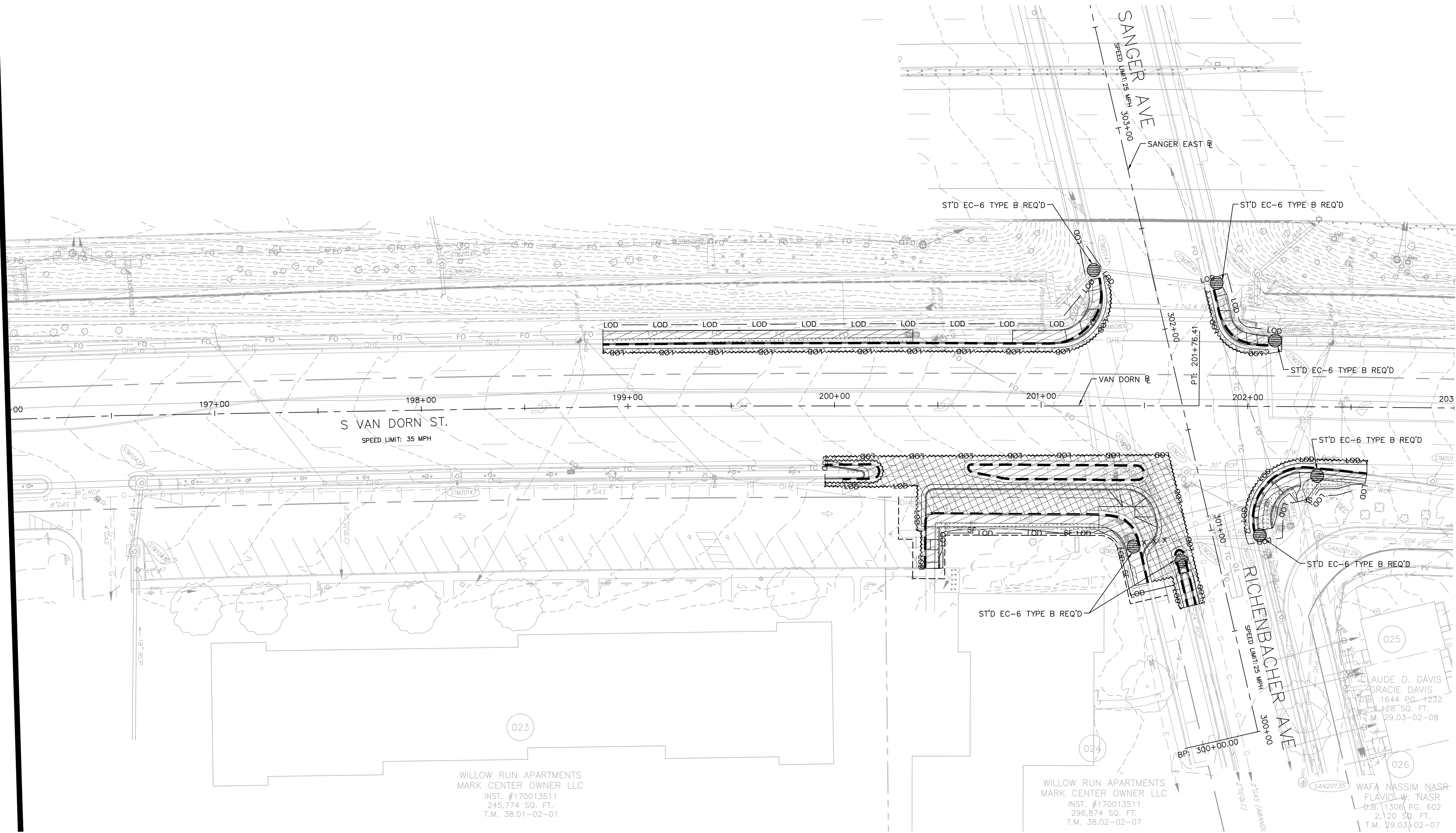
90% DESIGN PHASE

CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313


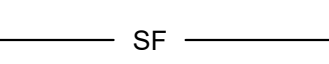
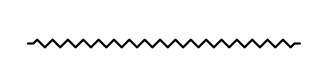
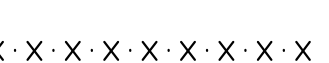


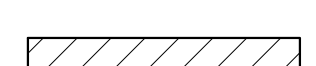
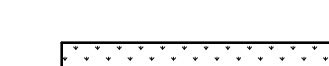


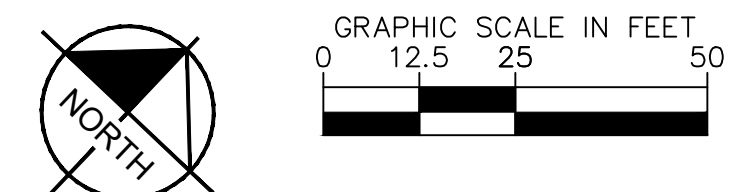
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MATCHLINE STA. 196+00 SEE SHEET C-1107



DEMOLITION & EROSION AND SEDIMENT CONTROL LEGEND:

- | | | | |
|--|---------------------------------|---|--|
|  | REMOVE CONCRETE CURB AND GUTTER |  | SILT FENCE VDOT STD EC-5 |
|  | FULL DEPTH SAWCUT |  | REMOVE PIPE |
|  | REMOVE ASPHALT PAVEMENT |  | INLET PROTECTION VDOT STD. EC-6 TYPE A,B |
|  | REMOVE CONCRETE |  | CLEARING AND GRUBBING |



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

**DEMOLITION, EROSION
AND SEDIMENT CONTROL
PHASE 1**

SHEET
C-1108
SCALE 1" = 25'

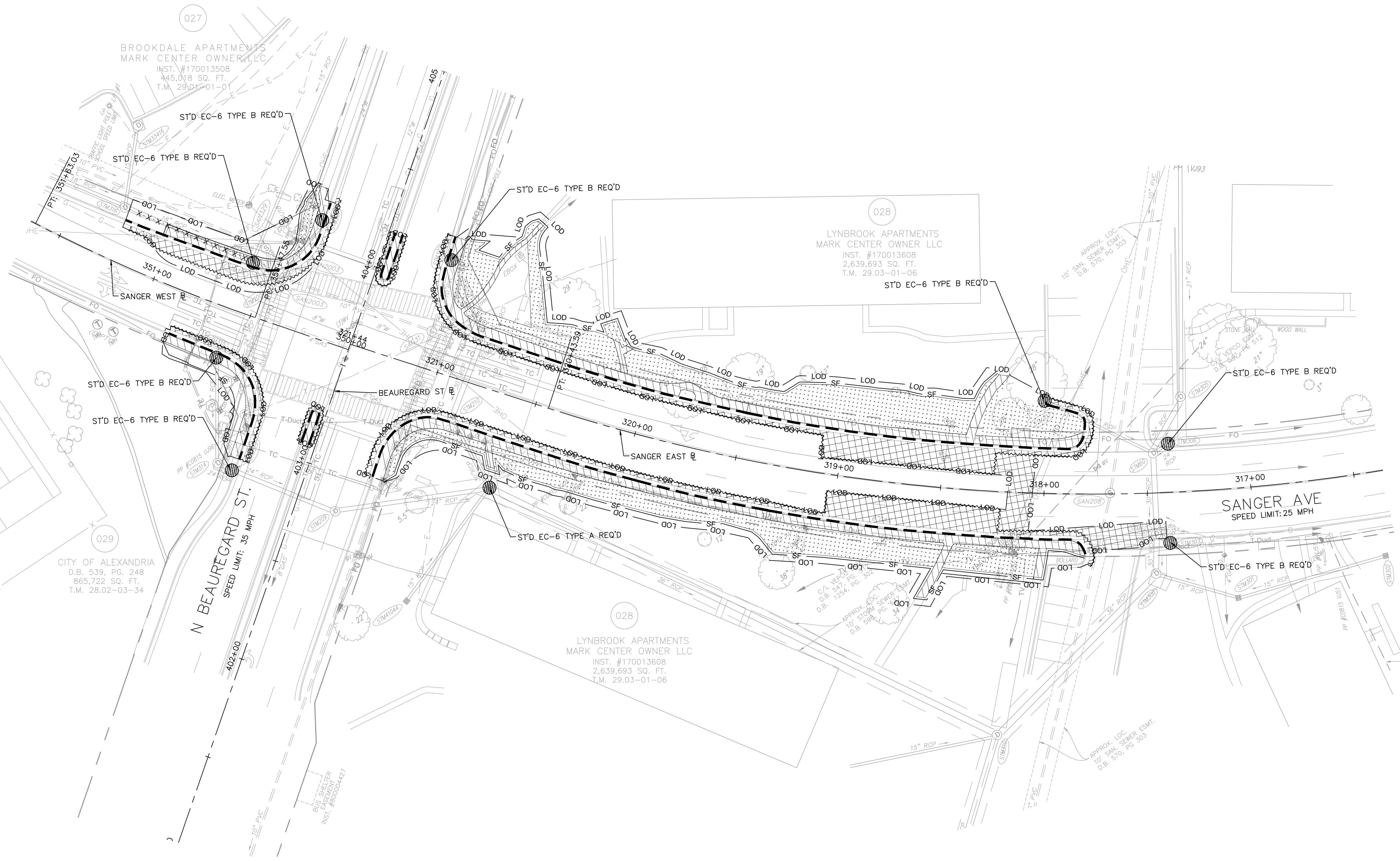
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DATE OF PLAN ISSUANCE:	N/A
CONSULTANT PROJECT ID.:	N/A
DESIGNED BY:	MAT. DATE: 4/5/24
DRAWN BY:	AJB. DATE: 4/5/24
CHECKED BY:	EJD. DATE: 4/5/24
APPROVED BY:	DATE:

REVISIONS	DESCRIPTION

CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

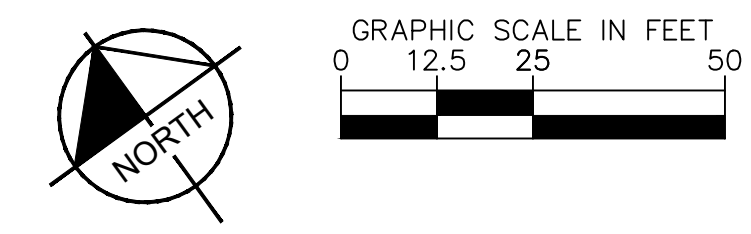


Plotted By: Phillips, Mark Sheet Sect: West End Transitway - Phase 1 Layout: C-1109 DEMOLITION EROSION & SEDIMENT CONTROL PHASE 1 July 12, 2024 06:53:59am K:\NVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\DEMO AND E&S PLAN.dwg



DEMOLITION & EROSION AND SEDIMENT CONTROL LEGEND:

	REMOVE CONCRETE CURB AND GUTTER		SILT FENCE VDOT STD EC-5
	FULL DEPTH SAWCUT		REMOVE PIPE
	REMOVE ASPHALT PAVEMENT		INLET PROTECTION VDOT STD. EC-6 TYPE A,B
	REMOVE CONCRETE		CLEARING AND GRUBBING



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE



CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

REVISIONS	DESCRIPTION
DATE	BY


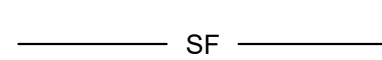
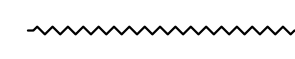
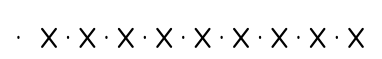



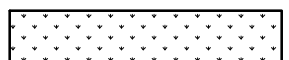
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DATE OF PLAN ISSUANCE:	N/A
CONSULTANT PROJECT ID.:	N/A
DESIGNED BY:	MAT. DATE: 4/5/24
DRAWN BY:	AJB. DATE: 4/5/24
CHECKED BY:	EJD. DATE: 4/5/24
APPROVED BY:	DATE:

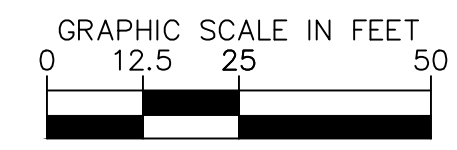
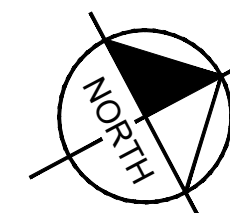
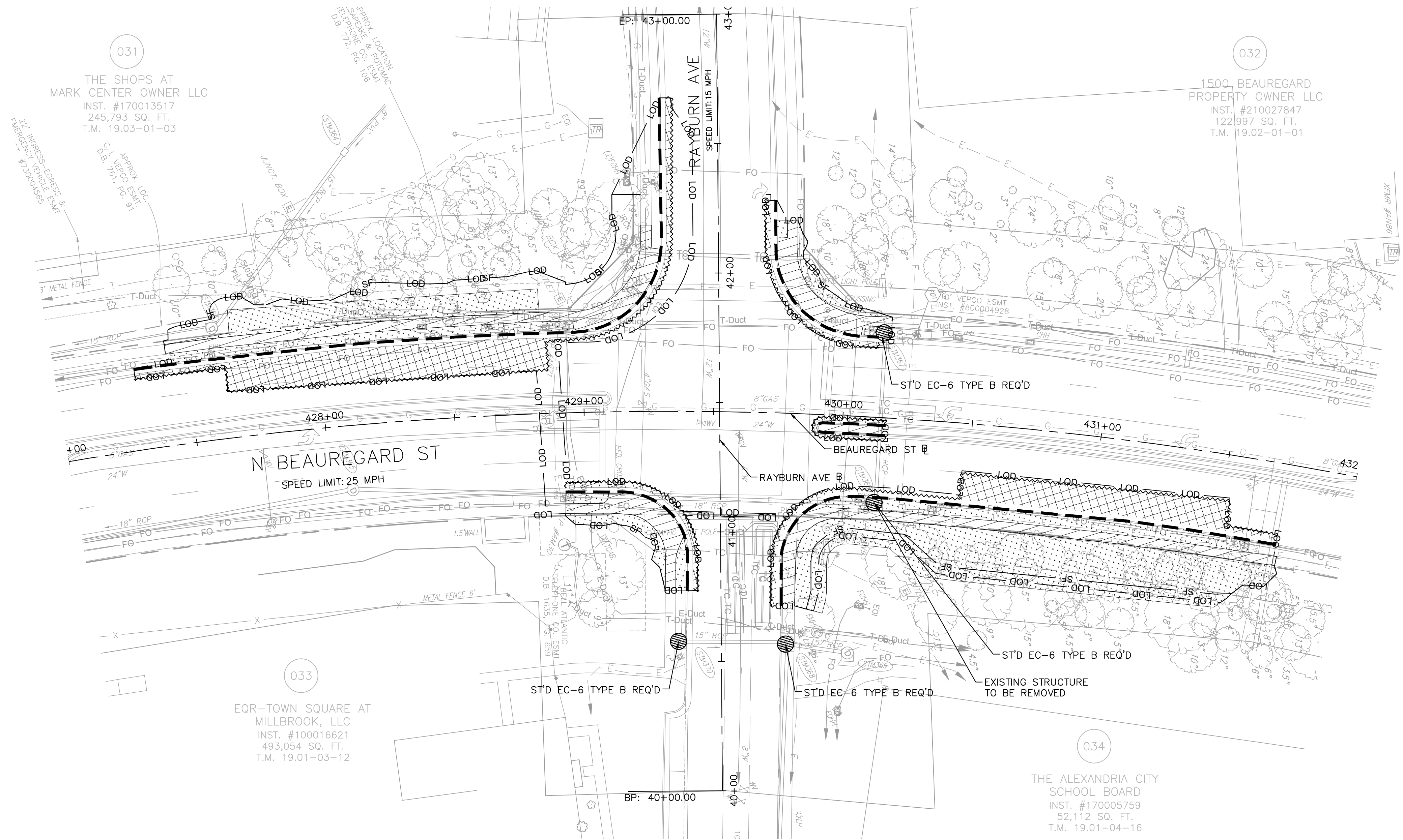
DEMOLITION, EROSION AND SEDIMENT CONTROL PHASE 1

SHEET
 C-1109
 SCALE 1" = 25'

Plotted By: Waring, Megan
 Sheet Set: West End Transitway - Phase 1
 Layout: C-1111 DEMOLITION EROSION & SEDIMENT CONTROL PHASE 1
 Date: July 11, 2024
 Time: 01:22:30pm
 K:\NVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\DEMO AND E&S PLAN.dwg

DEMOLITION & EROSION AND SEDIMENT CONTROL LEGEND:

- | | | | |
|--|---------------------------------|---|--|
|  | REMOVE CONCRETE CURB AND GUTTER |  | SILT FENCE VDOT STD EC-5 |
|  | FULL DEPTH SAWCUT |  | REMOVE PIPE |
|  | REMOVE ASPHALT PAVEMENT |  | INLET PROTECTION VDOT STD. EC-6 TYPE A,B |
|  | REMOVE CONCRETE |  | CLEARING AND GRUBBING |



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

DEMOLITION, EROSION AND SEDIMENT CONTROL PHASE 1

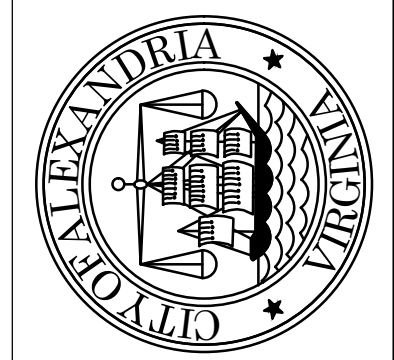
SHEET
 C-1111
 SCALE 1" = 25'

90% DESIGN PHASE

CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

REVISIONS	DATE	DESCRIPTION

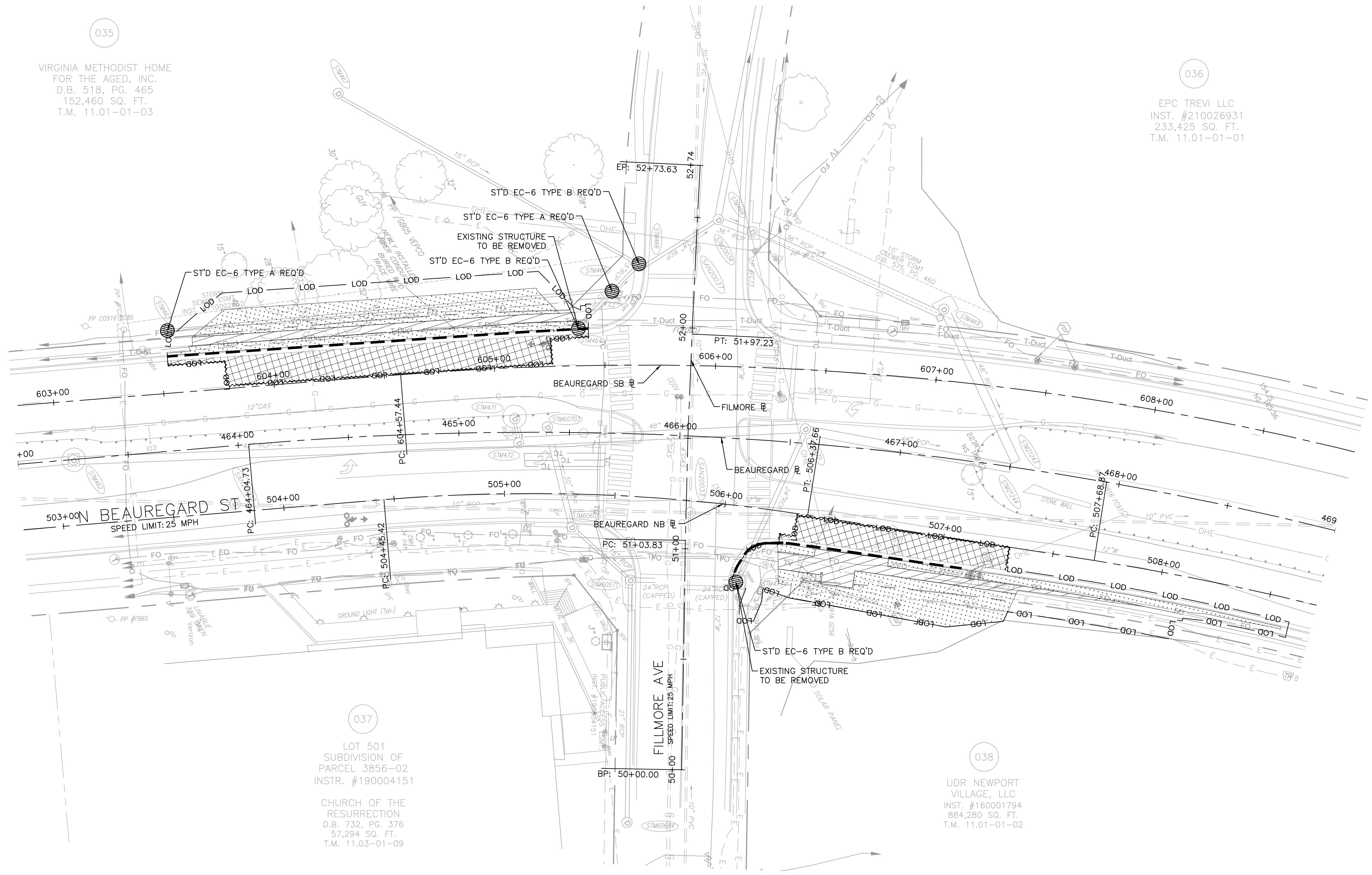
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 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: MAT. DATE: 4/5/24
 DRAWN BY: AUB. DATE: 4/5/24
 CHECKED BY: EJD. DATE: 4/5/24
 APPROVED BY: _____ DATE: _____



Plotted By: Waring, Megan
 Sheet Set: West End Transitway - Phase 1
 Layout: C-1112 DEMOLITION, EROSION & SEDIMENT CONTROL PHASE 1
 July 11, 2024 01:22:43pm
 K:\NVA_Transit\110104122_West_End_Transitway_Design\CADD\PlanSheets\DEMO AND E&S PLAN.dwg

035

VIRGINIA METHODIST HOME
 FOR THE AGED, INC.
 D.B. 518, PG. 465
 152,460 SQ. FT.
 T.M. 11.01-01-03



036

EPC TREVI LLC
 INST. #210026931
 233,425 SQ. FT.
 T.M. 11.01-01-01

037

LOT 501
 SUBDIVISION OF
 PARCEL 3856-02
 INSTR. #190004151

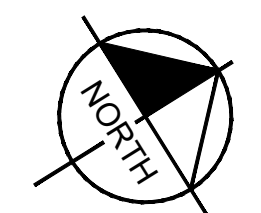
CHURCH OF THE
 RESURRECTION
 D.B. 732, PG. 376
 57,294 SQ. FT.
 T.M. 11.03-01-09

038

UDR NEWPORT
 VILLAGE, LLC
 INST. #160001794
 884,280 SQ. FT.
 T.M. 11.01-01-02

DEMOLITION & EROSION AND SEDIMENT CONTROL LEGEND:

- REMOVE CONCRETE CURB AND GUTTER
- FULL DEPTH SAWCUT
- REMOVE ASPHALT PAVEMENT
- REMOVE CONCRETE
- SF
- REMOVE PIPE
- INLET PROTECTION VDOT STD. EC-6 TYPE A,B
- CLEARING AND GRUBBING
- SILT FENCE VDOT STD EC-5



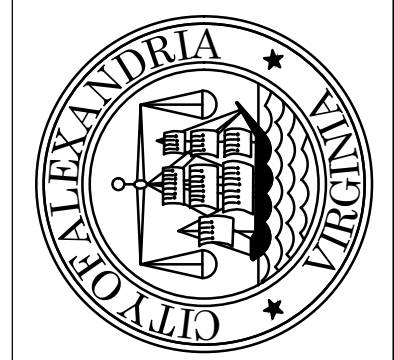
WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

ALEXANDRIA PROJECT NO.: 110104122	DATE OF PLAN ISSUANCE: N/A
CONSULTANT PROJECT ID: N/A	DESIGNED BY: MAT DATE: 4/5/24
	DRAWN BY: AUB DATE: 4/5/24
	CHECKED BY: EJD DATE: 4/5/24
	APPROVED BY: _____ DATE: _____

REVISIONS	DESCRIPTION

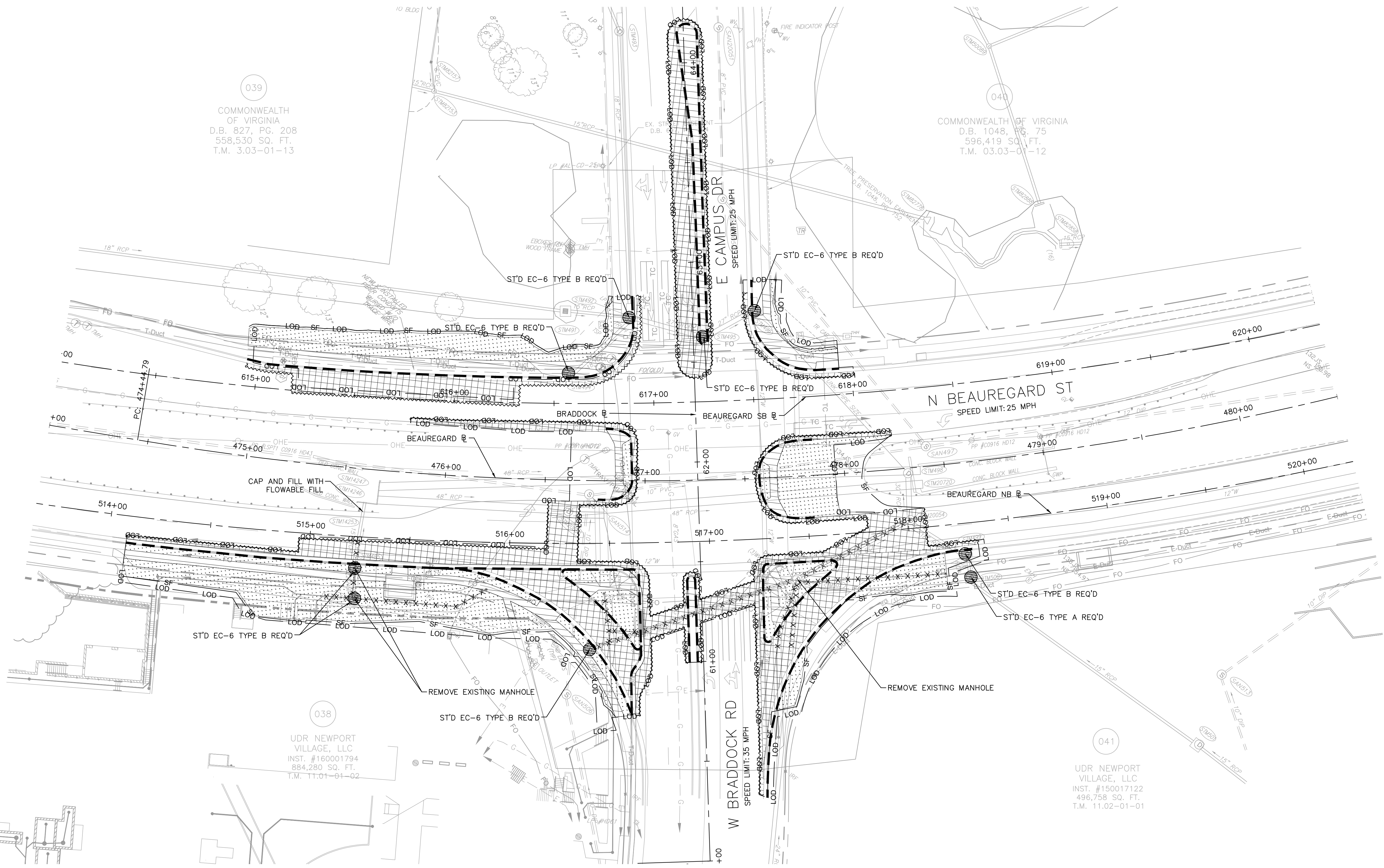
CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313



DEMOLITION, EROSION
 AND SEDIMENT CONTROL
 PHASE 1

SHEET
 C-1112
 SCALE 1" = 25'

Plotted By: Grovitt, Sydney Sheet Set: West End Transitway - Phase 1 Layout: C-1113 DEMOLITION EROSION & SEDIMENT CONTROL PHASE 1 September 03, 2024 04:09:15pm K:\NVA_Transit\110104122_West_End_Transitway_Design\CADD\PlanSheets\DEMO_AND_E&S_PLAN.dwg



039
 COMMONWEALTH OF VIRGINIA
 D.B. 827, PG. 208
 558,530 SQ. FT.
 T.M. 3.03-01-13

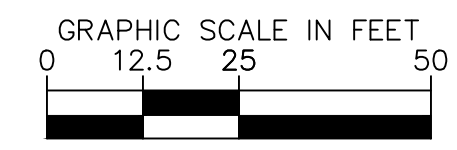
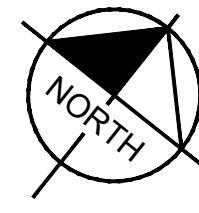
038
 UDR NEWPORT VILLAGE, LLC
 INST. #160001794
 884,280 SQ. FT.
 T.M. 11.01-01-02

040
 COMMONWEALTH OF VIRGINIA
 D.B. 1048, PG. 75
 596,419 SQ. FT.
 T.M. 03.03-01-12

041
 UDR NEWPORT VILLAGE, LLC
 INST. #150017122
 496,758 SQ. FT.
 T.M. 11.02-01-01

DEMOLITION & EROSION AND SEDIMENT CONTROL LEGEND:

	REMOVE CONCRETE CURB AND GUTTER		SILT FENCE VDOT STD EC-5
	FULL DEPTH SAWCUT		REMOVE PIPE
	REMOVE ASPHALT PAVEMENT		INLET PROTECTION VDOT STD. EC-6 TYPE A,B
	REMOVE CONCRETE		CLEARING AND GRUBBING



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

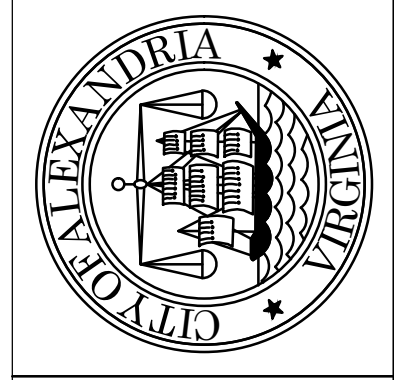
ALEXANDRIA PROJECT NO.: 110104122

REVISIONS	DATE	DESCRIPTION

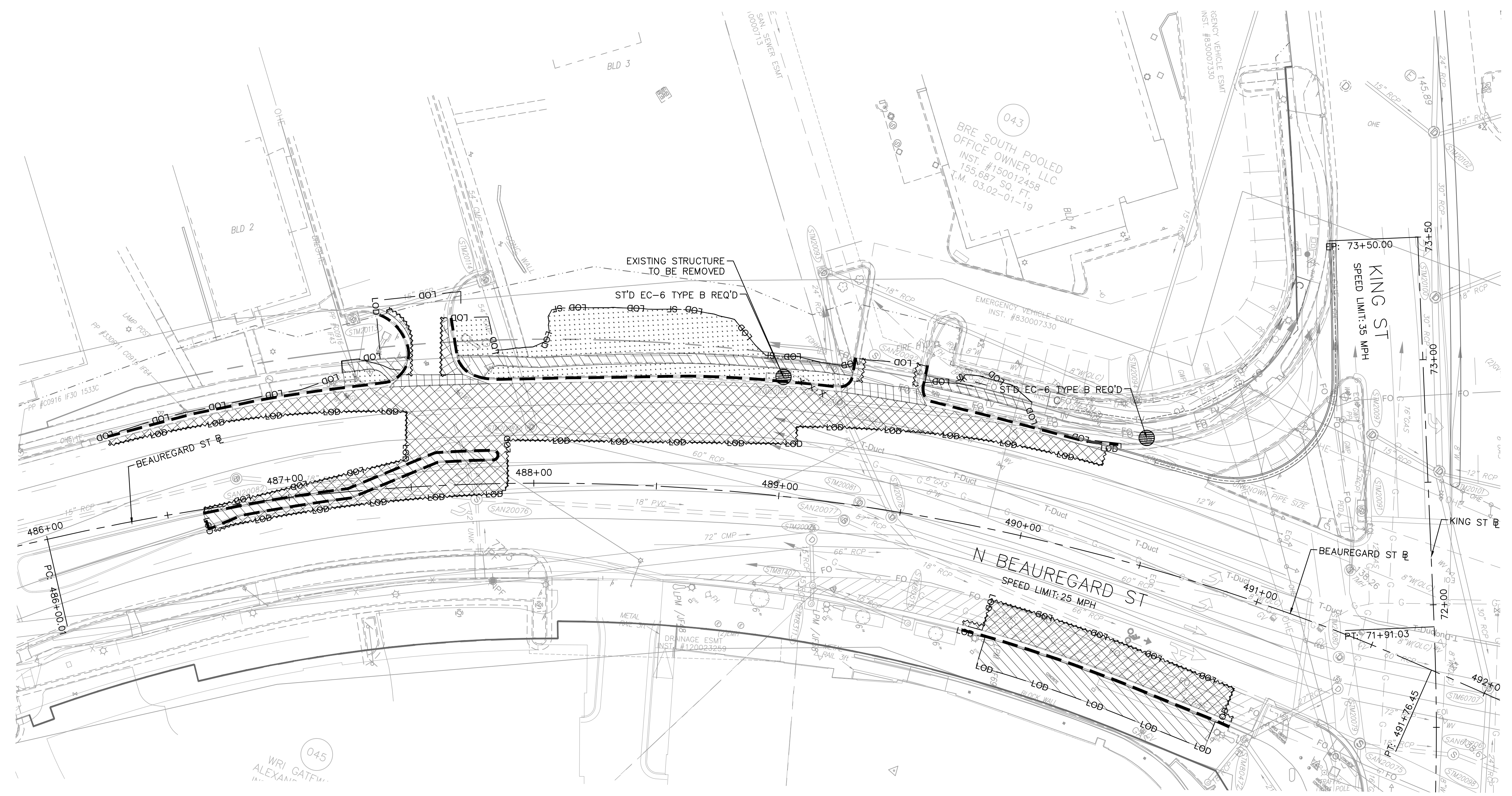
DEMOLITION, EROSION AND SEDIMENT CONTROL PHASE 1

SHEET C-1113
 SCALE 1" = 25'


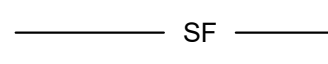
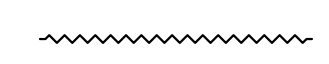
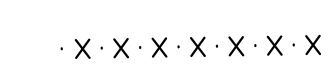


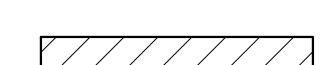

CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

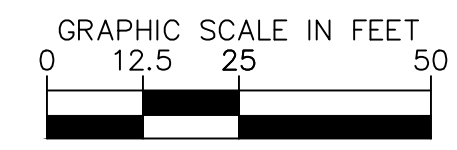
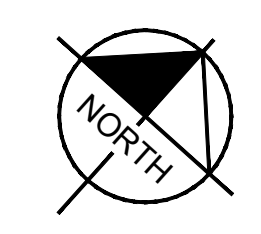


Plotted By: Waring, Megan | Sheet Set: West End Transitway - Phase 1 | Layout: C-1114 | DEMOLITION, EROSION & SEDIMENT CONTROL PHASE 1 | July 11, 2024 | 01:23:12pm | K:\NVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\DEMO AND E&S PLAN.dwg



DEMOLITION & EROSION AND SEDIMENT CONTROL LEGEND:

- | | | | | |
|--|---------------------------------|---|-----------------------------|--|
|  | REMOVE CONCRETE CURB AND GUTTER |  | SF | SILT FENCE VDOT STD EC-5 |
|  | FULL DEPTH SAWCUT |  | X · X · X · X · X · X · X · | REMOVE PIPE |
|  | REMOVE ASPHALT PAVEMENT |  | | INLET PROTECTION VDOT STD. EC-6 TYPE A,B |
|  | REMOVE CONCRETE |  | | CLEARING AND GRUBBING |

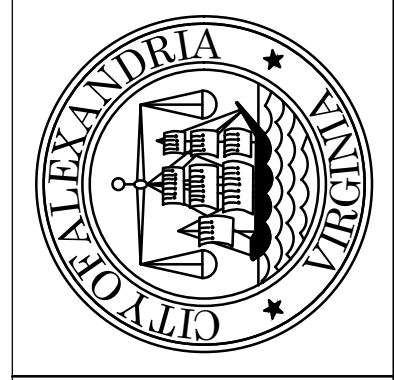


WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

DEMOLITION, EROSION AND SEDIMENT CONTROL PHASE 1

SHEET
 C-1114
 SCALE 1" = 25'

90% DESIGN PHASE



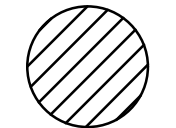
CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

REVISIONS	DESCRIPTION
DATE	BY

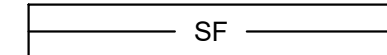
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DATE OF PLAN ISSUANCE:	N/A
CONSULTANT PROJECT ID.:	N/A
DESIGNED BY:	MAT. DATE: 4/5/24
DRAWN BY:	AUB. DATE: 4/5/24
CHECKED BY:	EJD. DATE: 4/5/24
APPROVED BY:	

Plotted By: Waring, Megan Sheet Set: West End Transitway - Phase 1 Layout: C-1201 EROSION AND SEDIMENT CONTROL PHASE 2 July 12, 2024 08:45:50am K:\NVA_Transit\110104122_West_End_Transitway_Design\CADD\PlanSheets\E&S PLAN VAN DORN PHASE 2.dwg

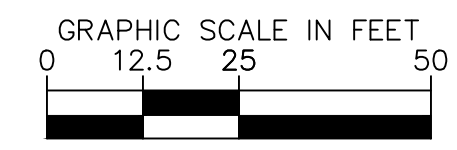
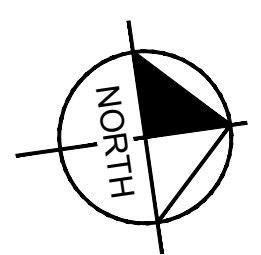
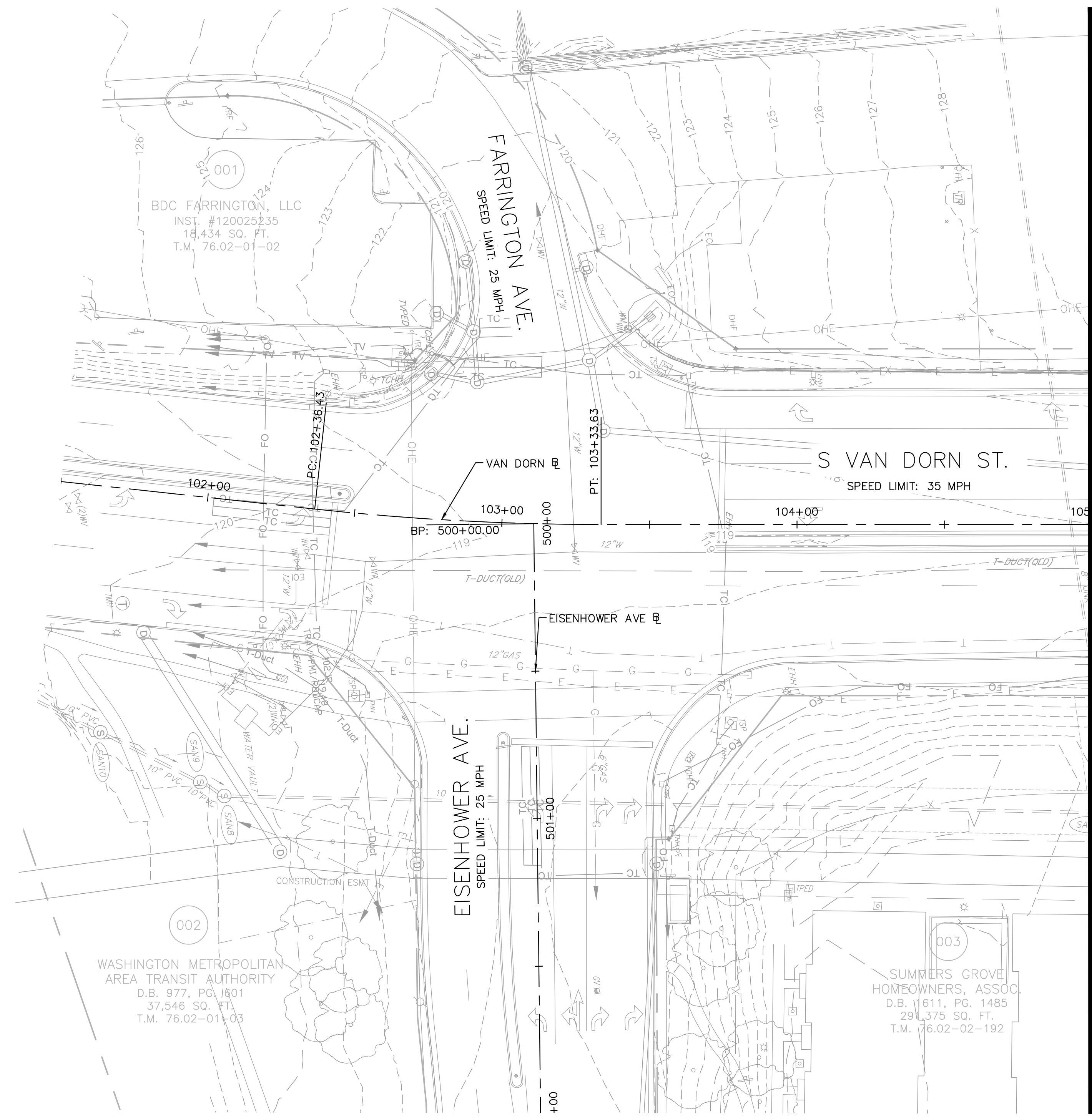
EROSION AND SEDIMENT CONTROL LEGEND:



INLET PROTECTION VDOT STD. EC-6 TYPE A,B



SILT FENCE VDOT STD EC-5



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

EROSION AND SEDIMENT CONTROL PHASE 2

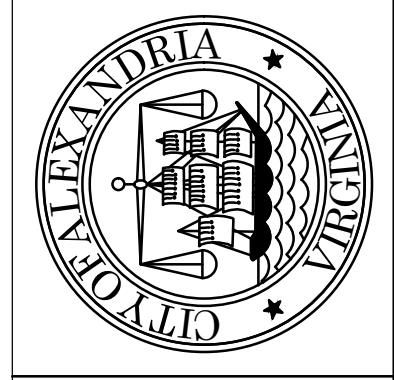
SHEET C-1201
SCALE 1" = 25'

90% DESIGN PHASE

REVISIONS	DATE	DESCRIPTION

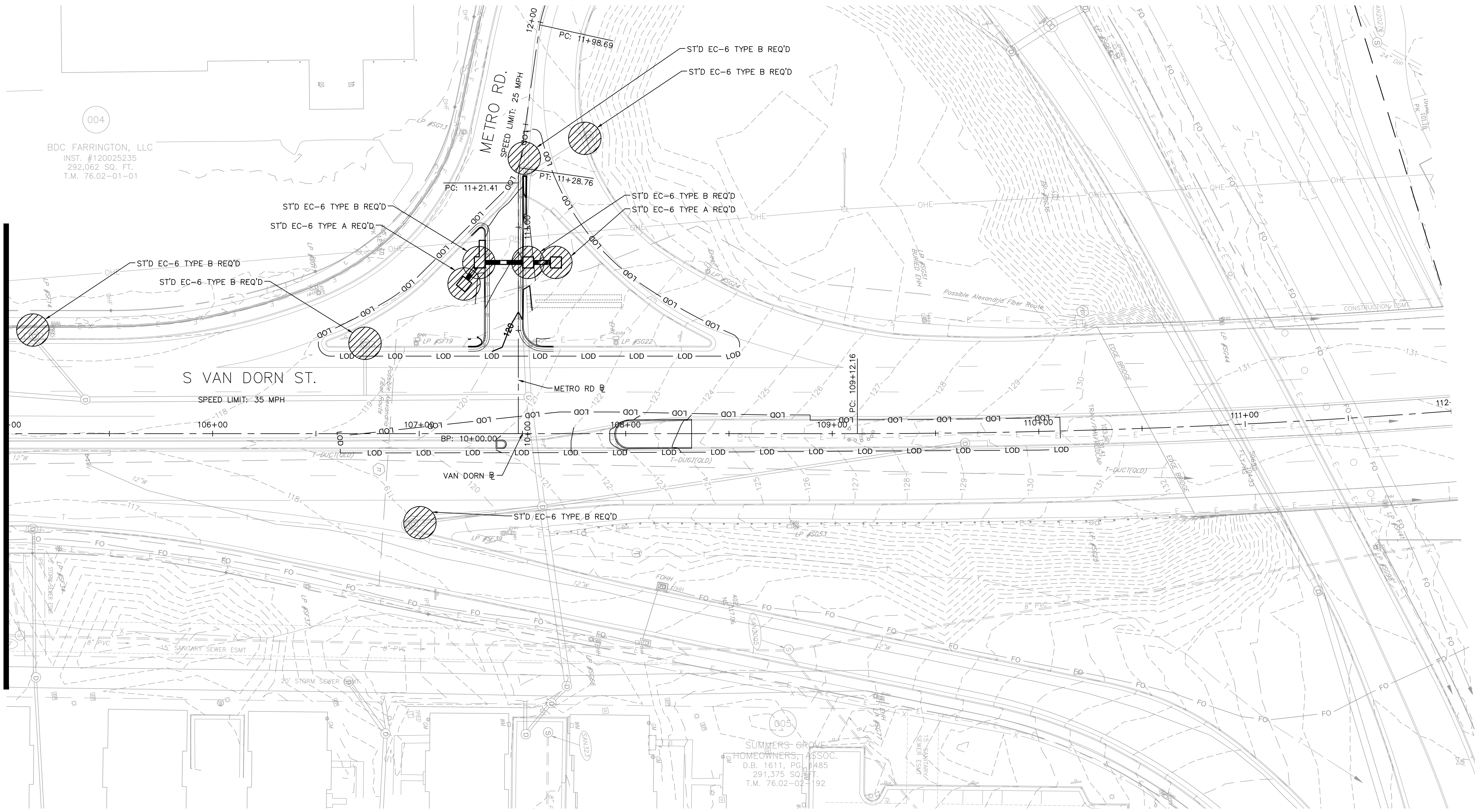
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 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: MAT. DATE: 4/5/24
 DRAWN BY: AUB. DATE: 4/5/24
 CHECKED BY: EJD. DATE: 4/5/24
 APPROVED BY: _____ DATE: _____

CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313



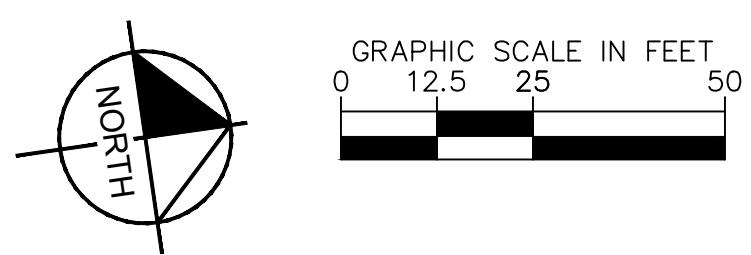
Plotted By: Waring, Megan Sheet Set: West End Transitway - Phase 1 Layout: C-1202 EROSION AND SEDIMENT CONTROL PHASE 2 July 12, 2024 08:45:55am K:\NVA_Transit\110104122_West_End_Transitway_Design\CADD\PlanSheets\E&S PLAN VAN DORN PHASE 2.dwg

MATCHLINE STA. 105+00 SEE SHEET C-1201



EROSION AND SEDIMENT CONTROL LEGEND:

- INLET PROTECTION VDOT STD. EC-6 TYPE A,B
- SF SILT FENCE VDOT STD EC-6



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

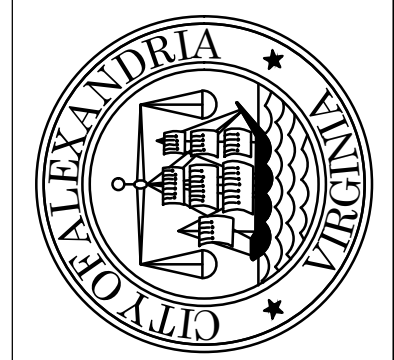
90% DESIGN PHASE

REVISIONS	DESCRIPTION

ALEXANDRIA PROJECT NO.: 110104122
 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: MAT. DATE: 4/5/24
 DRAWN BY: AUB. DATE: 4/5/24
 CHECKED BY: EJD. DATE: 4/5/24
 APPROVED BY: _____ DATE: _____

EROSION AND SEDIMENT CONTROL PHASE 2

SHEET C-1202
 SCALE 1" = 25'

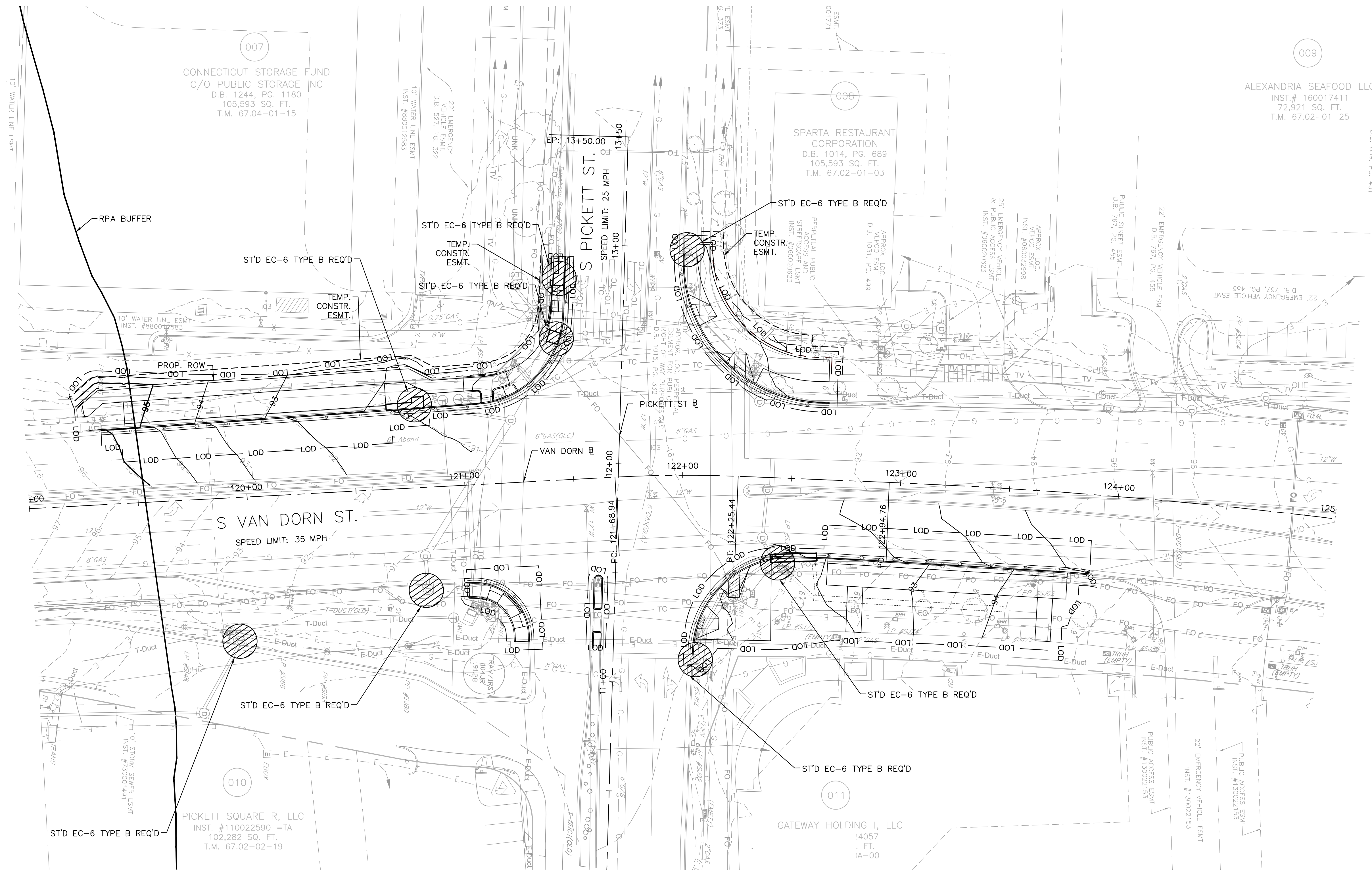


CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

004
 BDC FARRINGTON, LLC
 INST. #120025235
 292,062 SQ. FT.
 T.M. 76.02-01-01

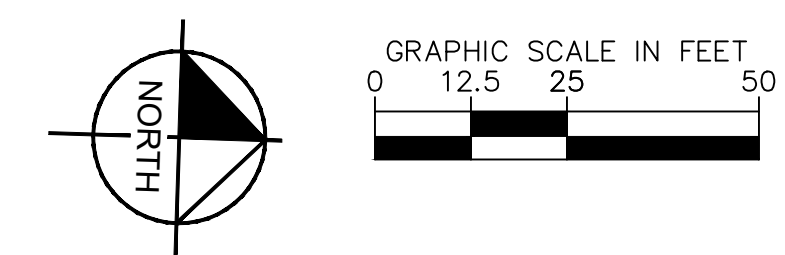
005
 SUMMERS GROVE HOMEOWNERS ASSOC.
 D.B. 1611, PG. 1485
 291,375 SQ. FT.
 T.M. 76.02-02-92

Plotted By: Waring, Megan Sheet Set: West End Transitway - Phase 1 Layout: C-1203 EROSION AND SEDIMENT CONTROL PHASE 2 July 12, 2024 08:46:00am K:\NVA_Transit\110104122_West_End_Transitway_Design\CADD\PlanSheets\E&S PLAN VAN DORN PHASE 2.dwg



EROSION AND SEDIMENT CONTROL LEGEND:

- INLET PROTECTION VDOT STD. EC-6 TYPE A,B
- SF SILT FENCE VDOT STD EC-5



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

REVISIONS	DATE	DESCRIPTION

ALEXANDRIA PROJECT NO.: 110104122
 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: MAT. DATE: 4/5/24
 DRAWN BY: AUB. DATE: 4/5/24
 CHECKED BY: EJD. DATE: 4/5/24
 APPROVED BY: _____ DATE: _____

EROSION AND SEDIMENT CONTROL PHASE 2

SHEET
C-1203
SCALE 1" = 25'

CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

REVISIONS	DATE	DESCRIPTION

Plotted By: Waring, Megan Sheet Set: West End Transitway - Phase 1 Layout: C-1204 EROSION AND SEDIMENT CONTROL PHASE 2 July 12, 2024 08:46:07am K:\NVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\E&S PLAN VAN DORN PHASE 2.dwg

012

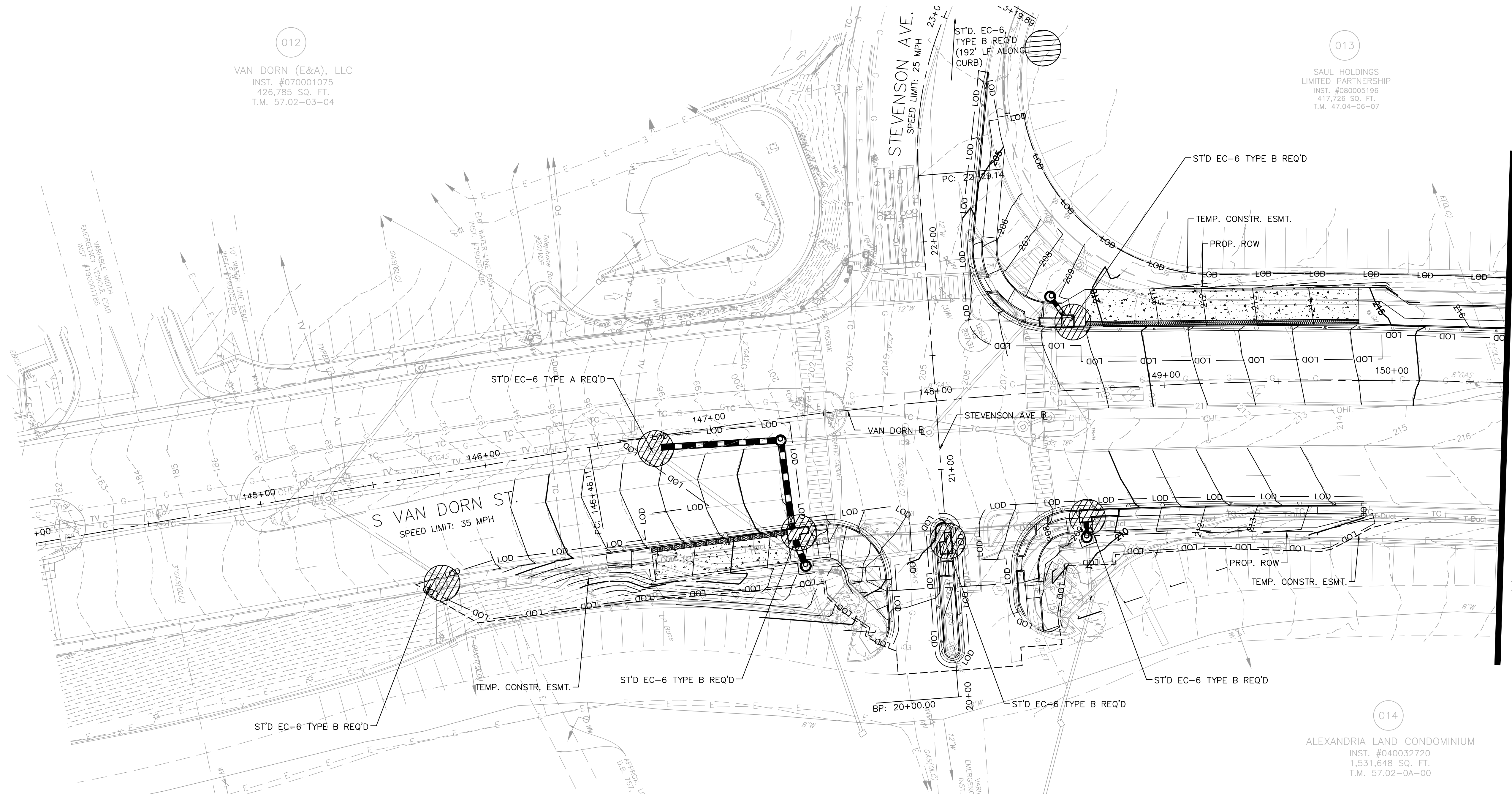
VAN DORN (E&A), LLC
 INST. #070001075
 426,785 SQ. FT.
 T.M. 57.02-03-04

013

SAUL HOLDINGS
 LIMITED PARTNERSHIP
 INST. #080005196
 417,726 SQ. FT.
 T.M. 47.04-06-07

014

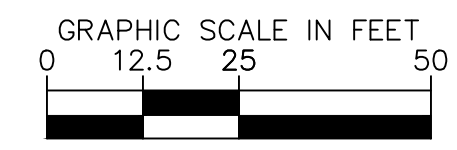
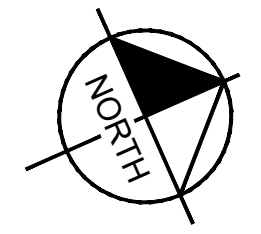
ALEXANDRIA LAND CONDOMINIUM
 INST. #040032720
 1,531,648 SQ. FT.
 T.M. 57.02-0A-00



MATCHLINE STA. 150+50 SEE SHEET C-1205

EROSION AND SEDIMENT CONTROL LEGEND:

- INLET PROTECTION VDOT STD. EC-6 TYPE A,B
- SF
- SILT FENCE VDOT STD EC-5



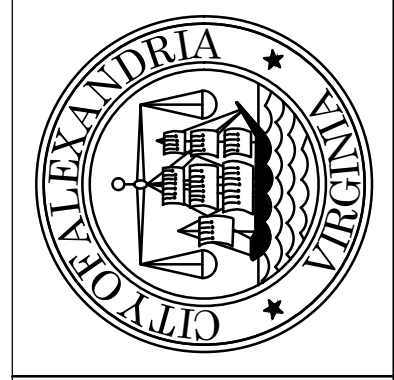
WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

REVISIONS	DATE	DESCRIPTION

ALEXANDRIA PROJECT NO.: 110104122
 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: MAT. DATE: 4/5/24
 DRAWN BY: AUB. DATE: 4/5/24
 CHECKED BY: EJD. DATE: 4/5/24
 APPROVED BY: _____ DATE: _____

CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

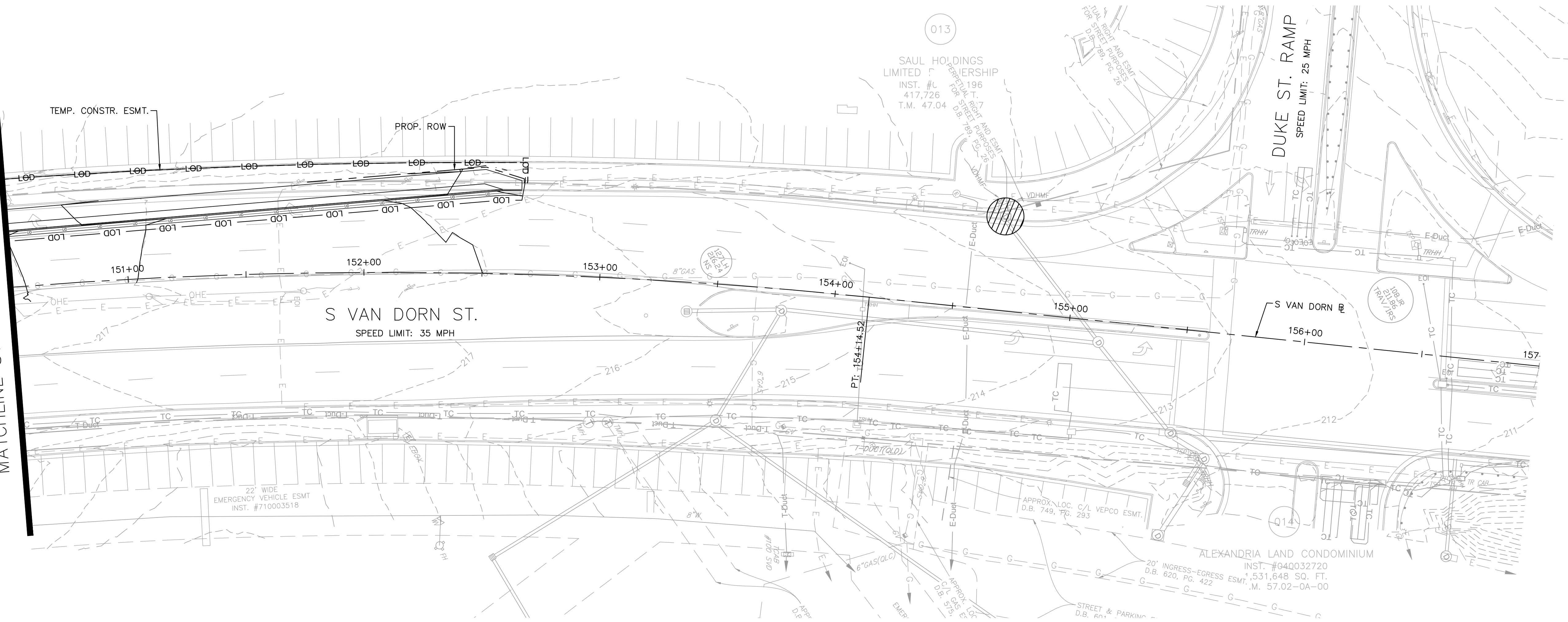


**EROSION AND SEDIMENT
 CONTROL PHASE 2**

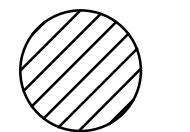
SHEET
 C-1204
 SCALE 1" = 25'

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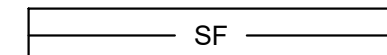
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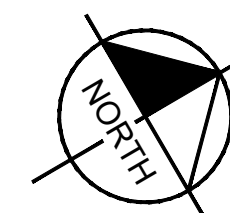
EROSION AND SEDIMENT CONTROL LEGEND:



INLET PROTECTION VDOT STD. EC-6 TYPE A,B



SILT FENCE VDOT STD EC-5



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

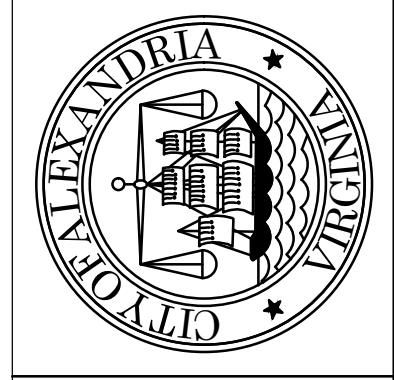
EROSION AND SEDIMENT CONTROL PHASE 2

ALEXANDRIA PROJECT NO.:	110104122
DATE OF PLAN ISSUANCE:	N/A
CONSULTANT PROJECT ID.:	N/A
DESIGNED BY:	MAT. DATE: 4/5/24
DRAWN BY:	AUB. DATE: 4/5/24
CHECKED BY:	EJD. DATE: 4/5/24
APPROVED BY:	DATE:

REVISIONS	DESCRIPTION
DATE	BY

CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

90% DESIGN PHASE

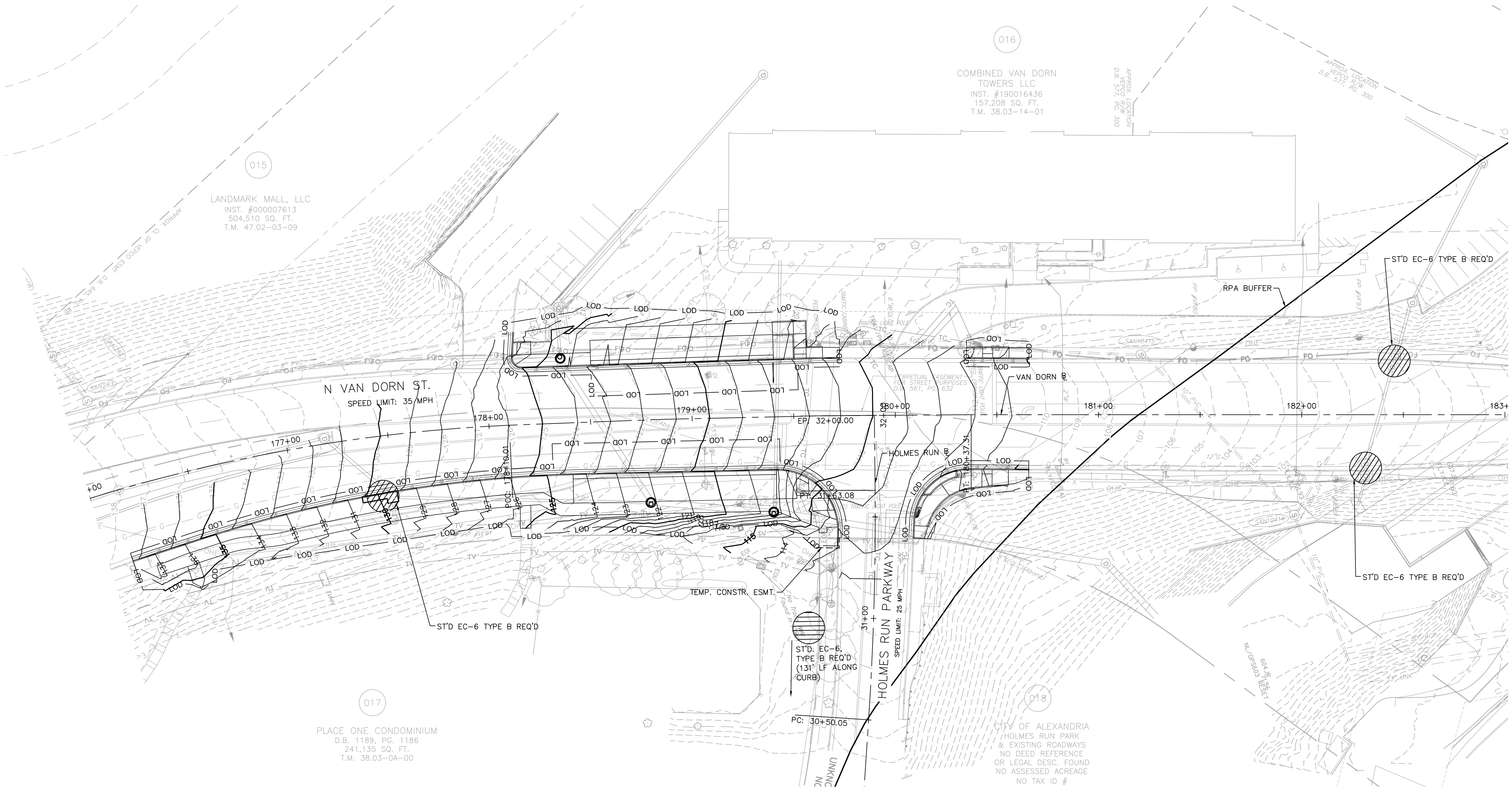


SHEET
 C-1205
 SCALE 1" = 25'

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EROSION AND SEDIMENT CONTROL LEGEND:

- INLET PROTECTION VDOT STD. EC-6 TYPE A,B
- SF SILT FENCE VDOT STD EC-5

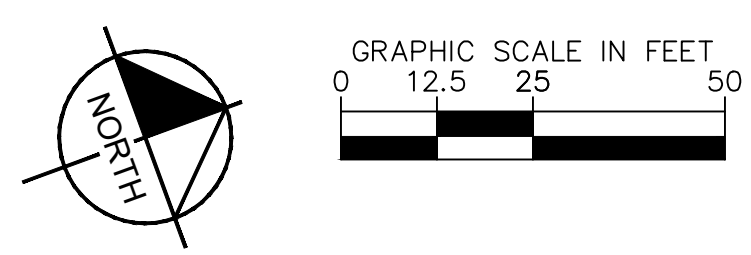


015
 LANDMARK MALL, LLC
 INST. #000007613
 504,510 SQ. FT.
 T.M. 47.02-03-09

016
 COMBINED VAN DORN
 TOWERS LLC
 INST. #190016436
 157,208 SQ. FT.
 T.M. 38.03-14-01

017
 PLACE ONE CONDOMINIUM
 D.B. 1189, PG. 1186
 241,135 SQ. FT.
 T.M. 38.03-0A-00

018
 CITY OF ALEXANDRIA
 HOLMES RUN PARK
 & EXISTING ROADWAYS
 NO DEED REFERENCE
 OR LEGAL DESC. FOUND
 NO ASSESSED ACREAGE
 NO TAX ID #



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

EROSION AND SEDIMENT CONTROL PHASE 2

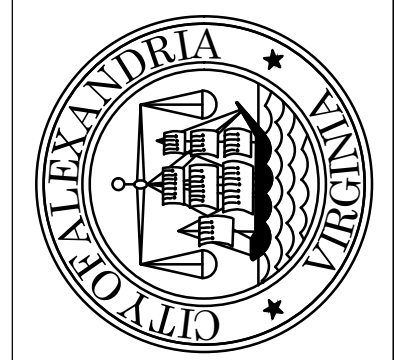
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 C-1206
 SCALE 1" = 25'

90% DESIGN PHASE

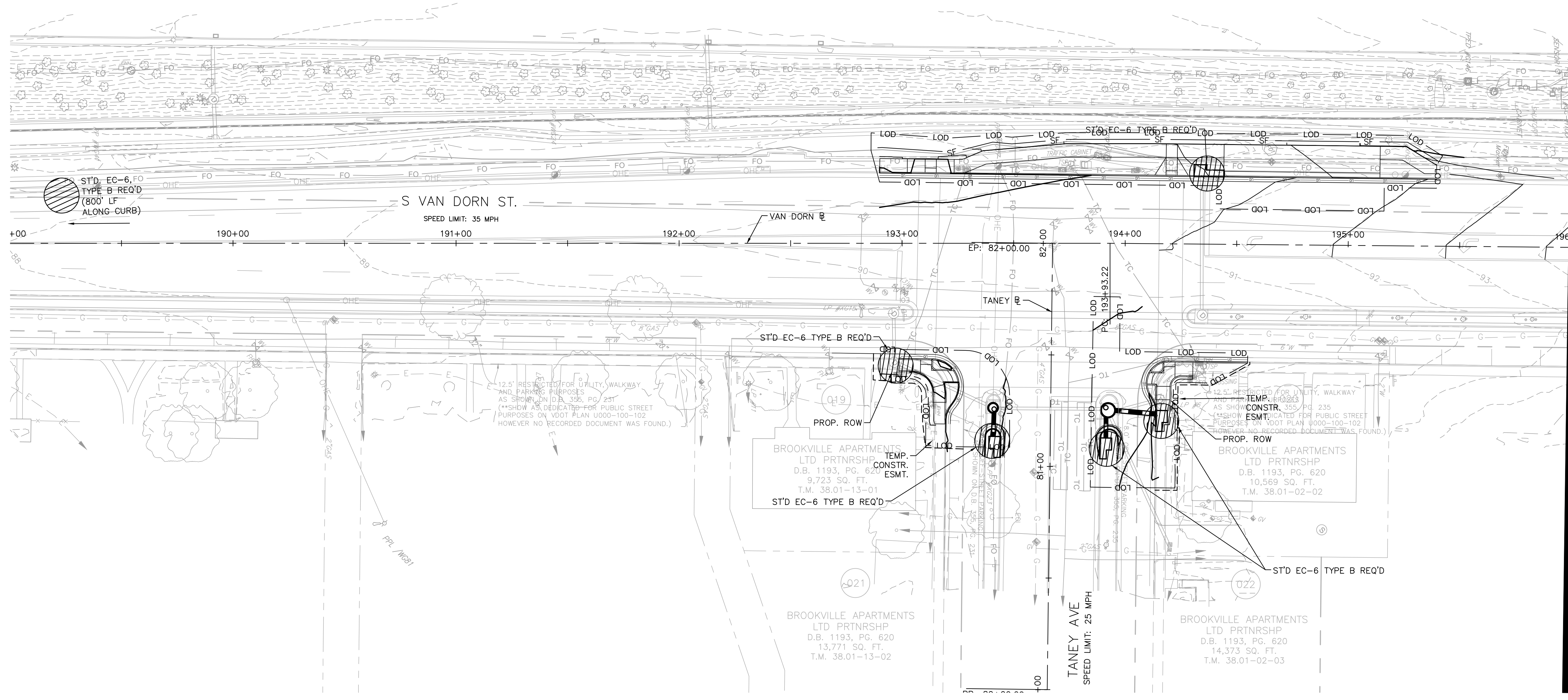
CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

REVISIONS	DESCRIPTION
DATE	BY

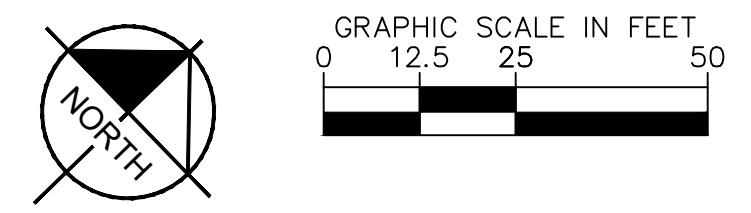
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 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: MAT. DATE: 4/5/24
 DRAWN BY: AUB. DATE: 4/5/24
 CHECKED BY: EJD. DATE: 4/5/24
 APPROVED BY: DATE:



Plotted By: Waring, Megan Sheet Set: West End Transitway - Phase 1 Layout: C-1207 EROSION AND SEDIMENT CONTROL PHASE 2 July 12, 2024 08:46:27am K:\NVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\E&S PLAN VAN DORN PHASE 2.dwg



MATCHLINE STA. 196+00 SEE SHEET C-1208



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

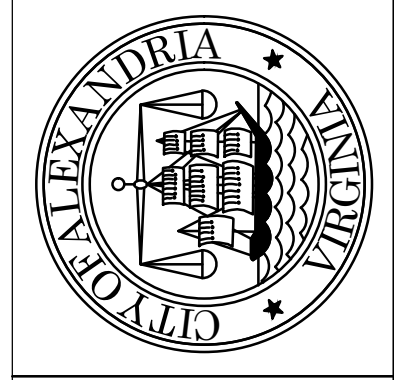
SHEET
 C-1207
 SCALE 1" = 25'

**EROSION AND SEDIMENT
 CONTROL PHASE 2**

ALEXANDRIA PROJECT NO.:	110104122
DATE OF PLAN ISSUANCE:	N/A
CONSULTANT PROJECT ID.:	N/A
DESIGNED BY:	MAT. DATE: 4/5/24
DRAWN BY:	AJB. DATE: 4/5/24
CHECKED BY:	EJD. DATE: 4/5/24
APPROVED BY:	DATE:

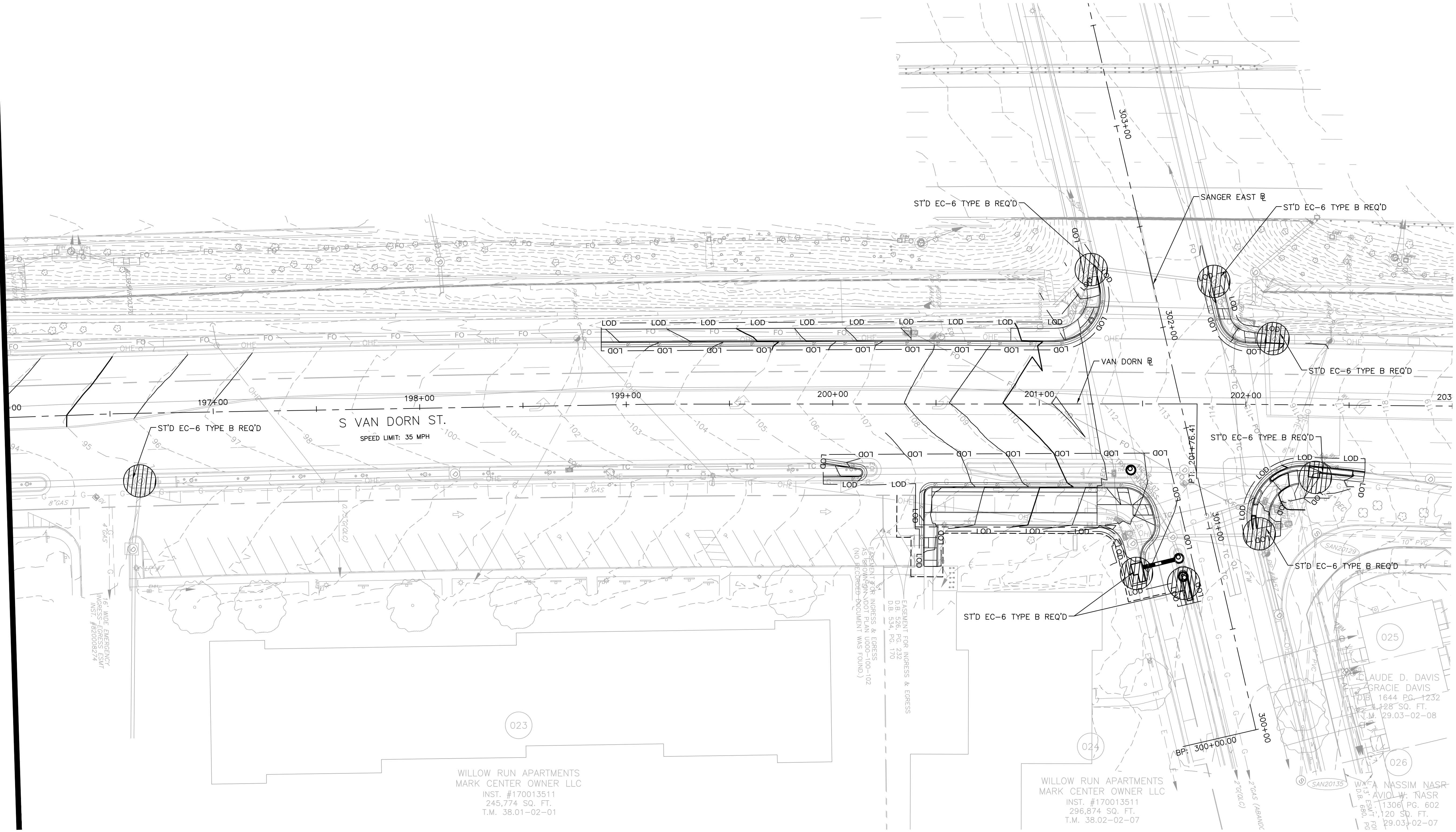
REVISIONS	DATE	DESCRIPTION

CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313



Plotted By: Waring, Megan Sheet Set: West End Transitway - Phase 1 Layout: C-1208 EROSION AND SEDIMENT CONTROL PHASE 2 July 12, 2024 08:46:32am K:\NVA_Transit\110104122_West_End_Transitway_Design\CADD\PlanSheets\E&S PLAN VAN DORN PHASE 2.dwg

MATCHLINE STA. 196+00 SEE SHEET C-1207



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

EROSION AND SEDIMENT CONTROL PHASE 2

SHEET C-1208
SCALE 1" = 25'

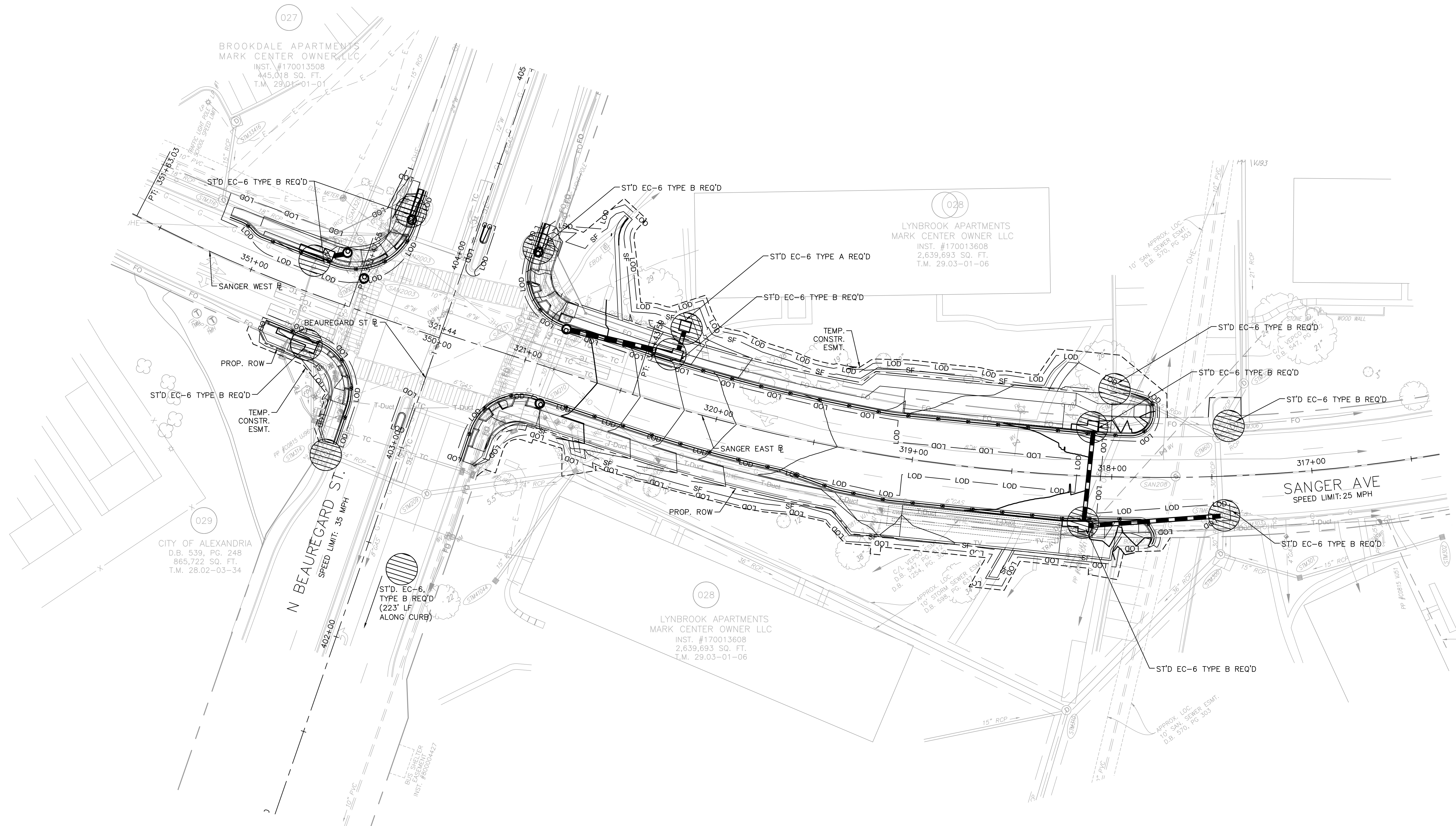
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DATE OF PLAN ISSUANCE:	N/A
CONSULTANT PROJECT ID.:	N/A
DESIGNED BY:	MAT. DATE: 4/5/24
DRAWN BY:	AJB. DATE: 4/5/24
CHECKED BY:	EJD. DATE: 4/5/24
APPROVED BY:	DATE:

REVISIONS	DESCRIPTION
DATE	
BY	

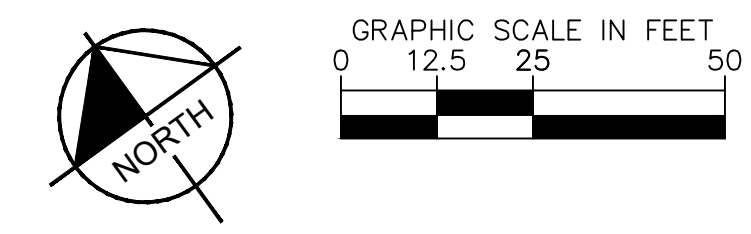
CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313



Plotted By: Waring, Megan Sheet Set: West End Transitway - Phase 1 Layout: C-1209 EROSION AND SEDIMENT CONTROL PHASE 2 July 12, 2024 08:47:36am K:\NVA_Traffic\110104122_West_End_Transitway_Design\CADD\PlanSheets\E&S PLAN PHASE 2.dwg



EROSION AND SEDIMENT CONTROL LEGEND:



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

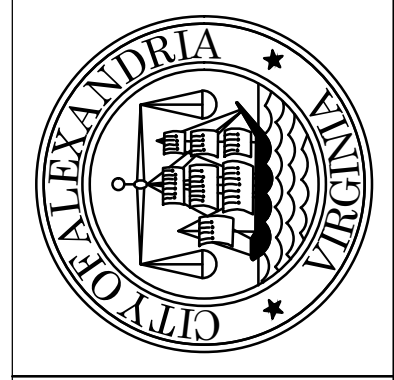
EROSION AND SEDIMENT CONTROL PHASE 2

SHEET
C-1209
SCALE 1" = 25'

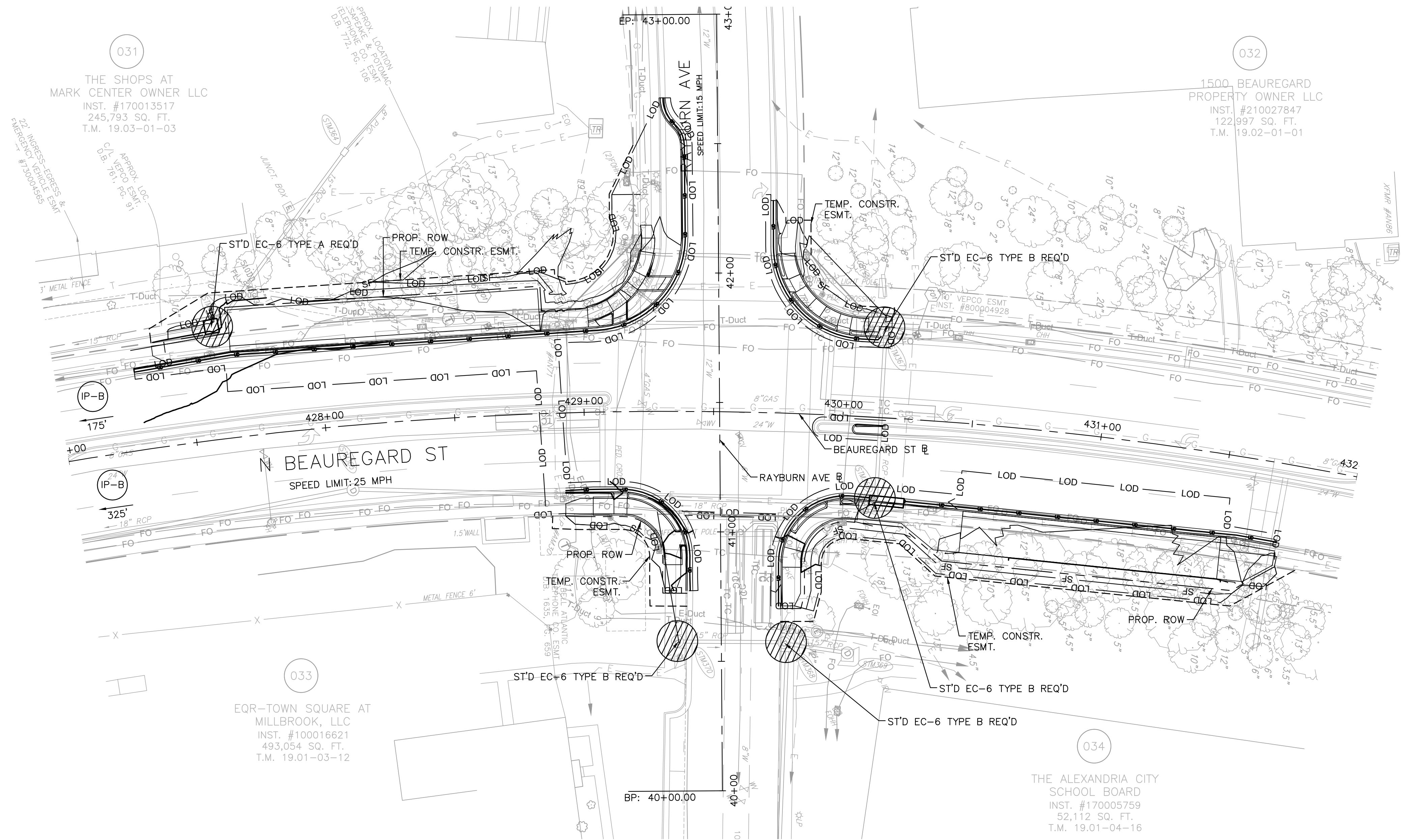
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DATE OF PLAN ISSUANCE:	N/A
CONSULTANT PROJECT ID.:	N/A
DESIGNED BY:	MAT. DATE: 4/5/24
DRAWN BY:	AUB. DATE: 4/5/24
CHECKED BY:	EJD. DATE: 4/5/24
APPROVED BY:	DATE:

REVISIONS	DESCRIPTION	DATE	BY

CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

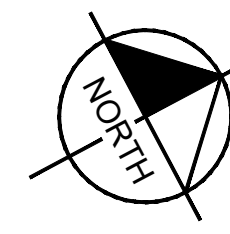


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EROSION AND SEDIMENT CONTROL LEGEND:

- INLET PROTECTION VDOT STD. EC-6 TYPE A,B
- SF SILT FENCE VDOT STD EC-5



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

EROSION AND SEDIMENT CONTROL PHASE 2

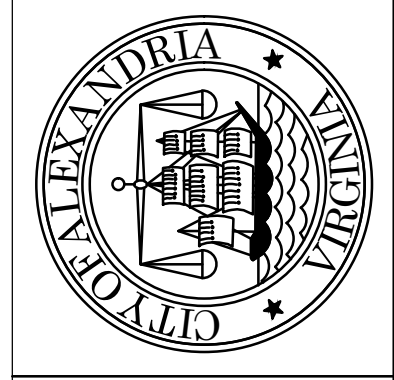
SHEET
C-1211
SCALE 1" = 25'

90% DESIGN PHASE

CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

REVISIONS	DATE	DESCRIPTION

ALEXANDRIA PROJECT NO.: 110104122
 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: MAT. DATE: 4/5/24
 DRAWN BY: AUB. DATE: 4/5/24
 CHECKED BY: EJD. DATE: 4/5/24
 APPROVED BY: _____ DATE: _____



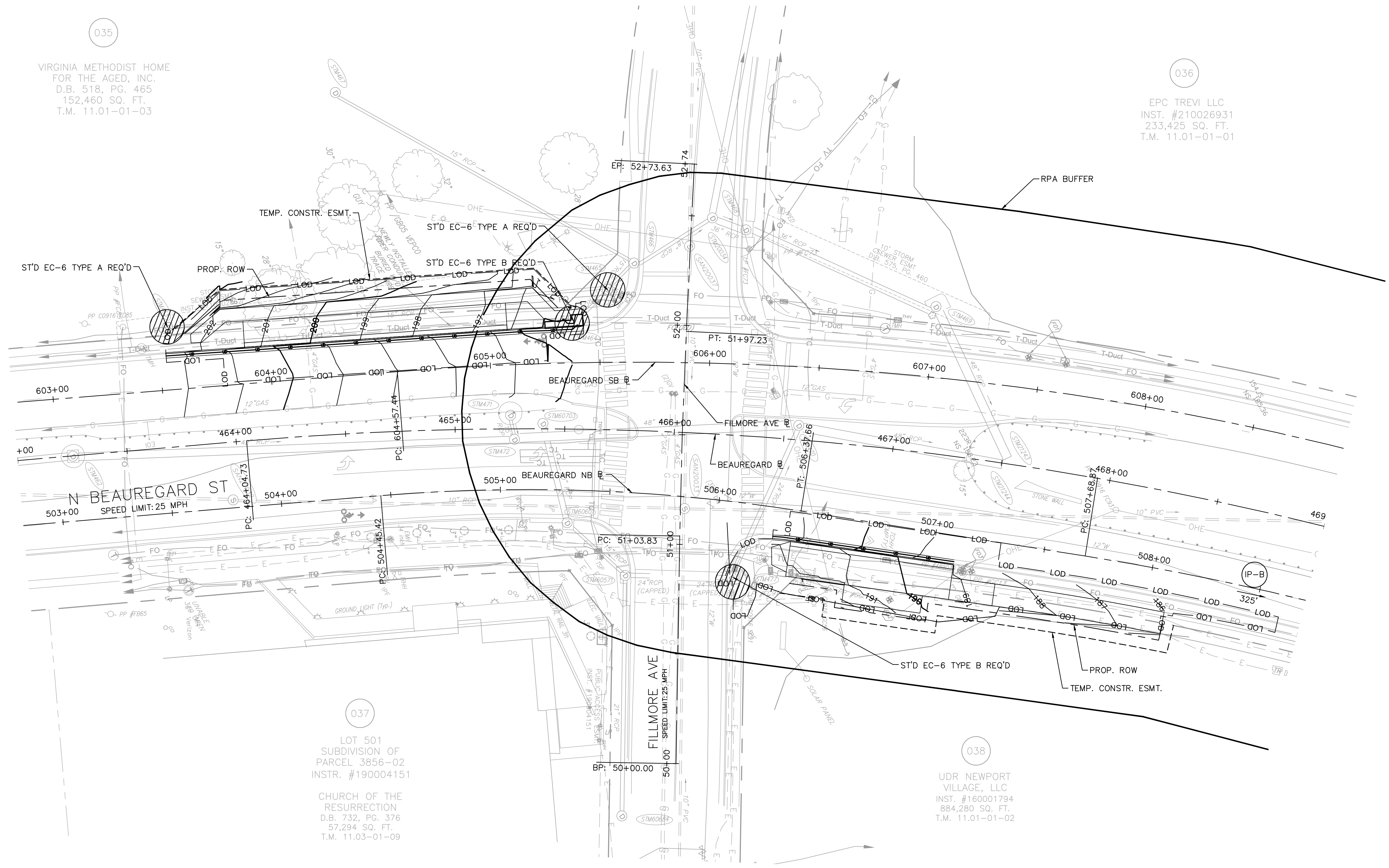
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035

VIRGINIA METHODIST HOME
FOR THE AGED, INC.
D.B. 518, PG. 465
152,460 SQ. FT.
T.M. 11.01-01-03

036

EPC TREVI LLC
INST. #210026931
233,425 SQ. FT.
T.M. 11.01-01-01



037

LOT 501
SUBDIVISION OF
PARCEL 3856-02
INSTR. #190004151

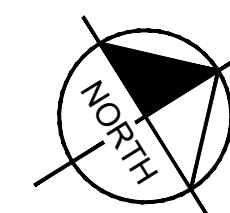
CHURCH OF THE
RESURRECTION
D.B. 732, PG. 376
57,294 SQ. FT.
T.M. 11.03-01-09

038

UDR NEWPORT
VILLAGE, LLC
INST. #160001794
884,280 SQ. FT.
T.M. 11.01-01-02

EROSION AND SEDIMENT CONTROL LEGEND:

- INLET PROTECTION VDOT STD. EC-6 TYPE A,B
- SF
- SILT FENCE VDOT STD EC-5



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

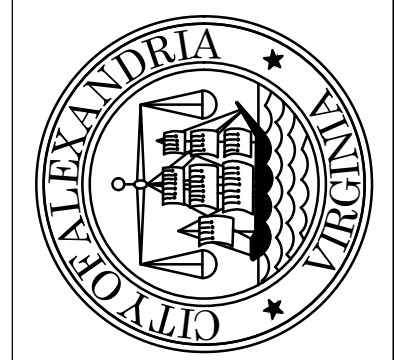
REVISIONS	DESCRIPTION

DATE	DESCRIPTION

ALEXANDRIA PROJECT NO.: 110104122
 DATE OF PLAN ISSUANCE: N/A
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 DRAWN BY: AUB. DATE: 4/5/24
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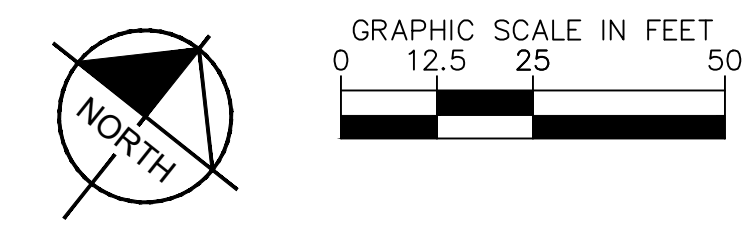
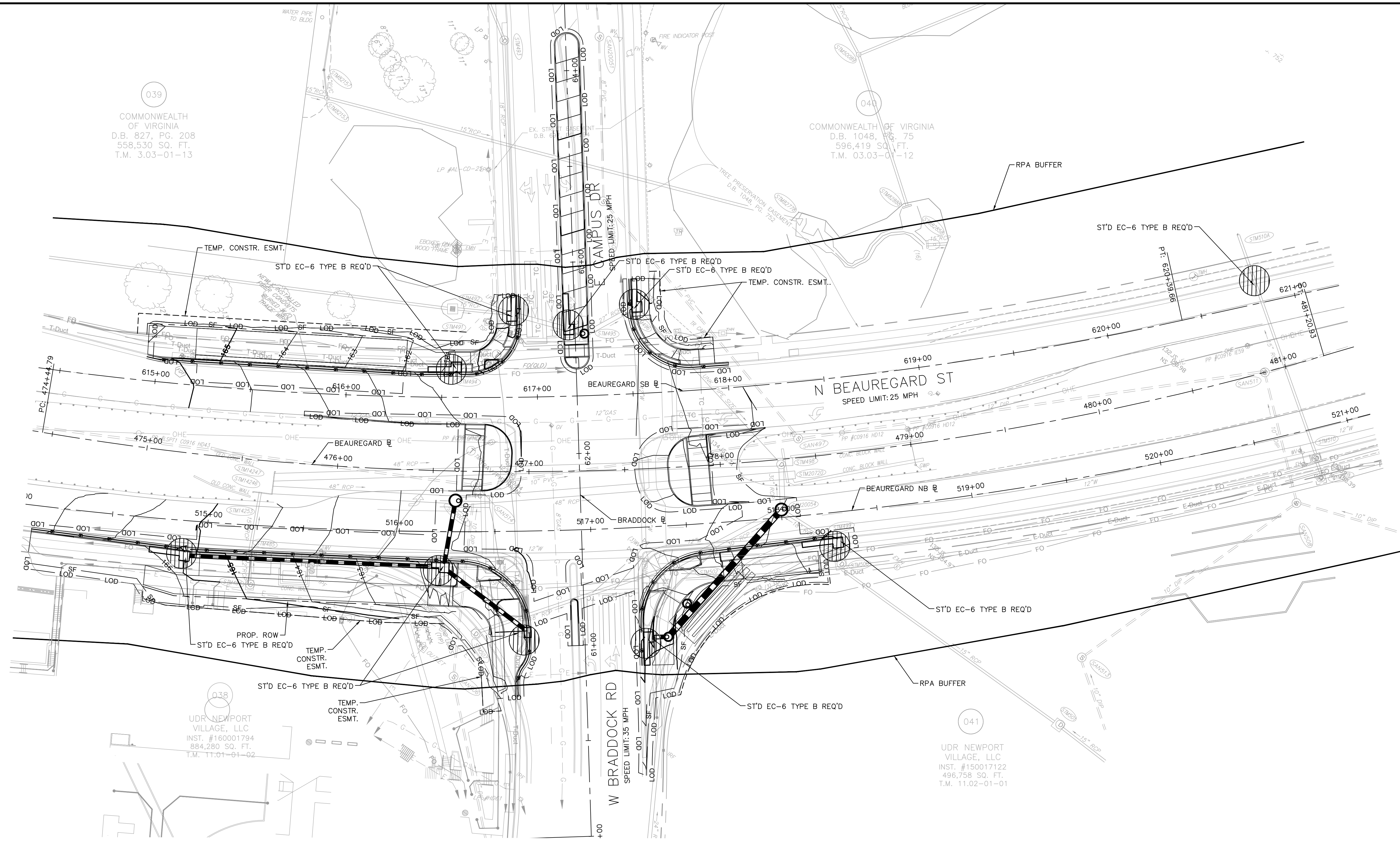
EROSION AND SEDIMENT CONTROL PHASE 2

SHEET
C-1212
SCALE 1" = 25'

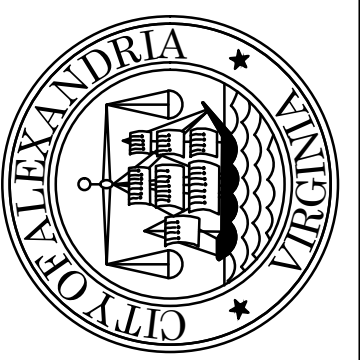


CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

Plotted By: Grovitt, Sydney Sheet Set: West End Transitway - Phase 1 Layout: C-1213 EROSION AND SEDIMENT CONTROL PHASE 2 September 03, 2024 04:12:24pm K:\NVA_Transit\10104122-West End Transitway Design\CADD\PlanSheets\ER&S PLAN PHASE 2.dwg



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS **90% DESIGN PHASE**



CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

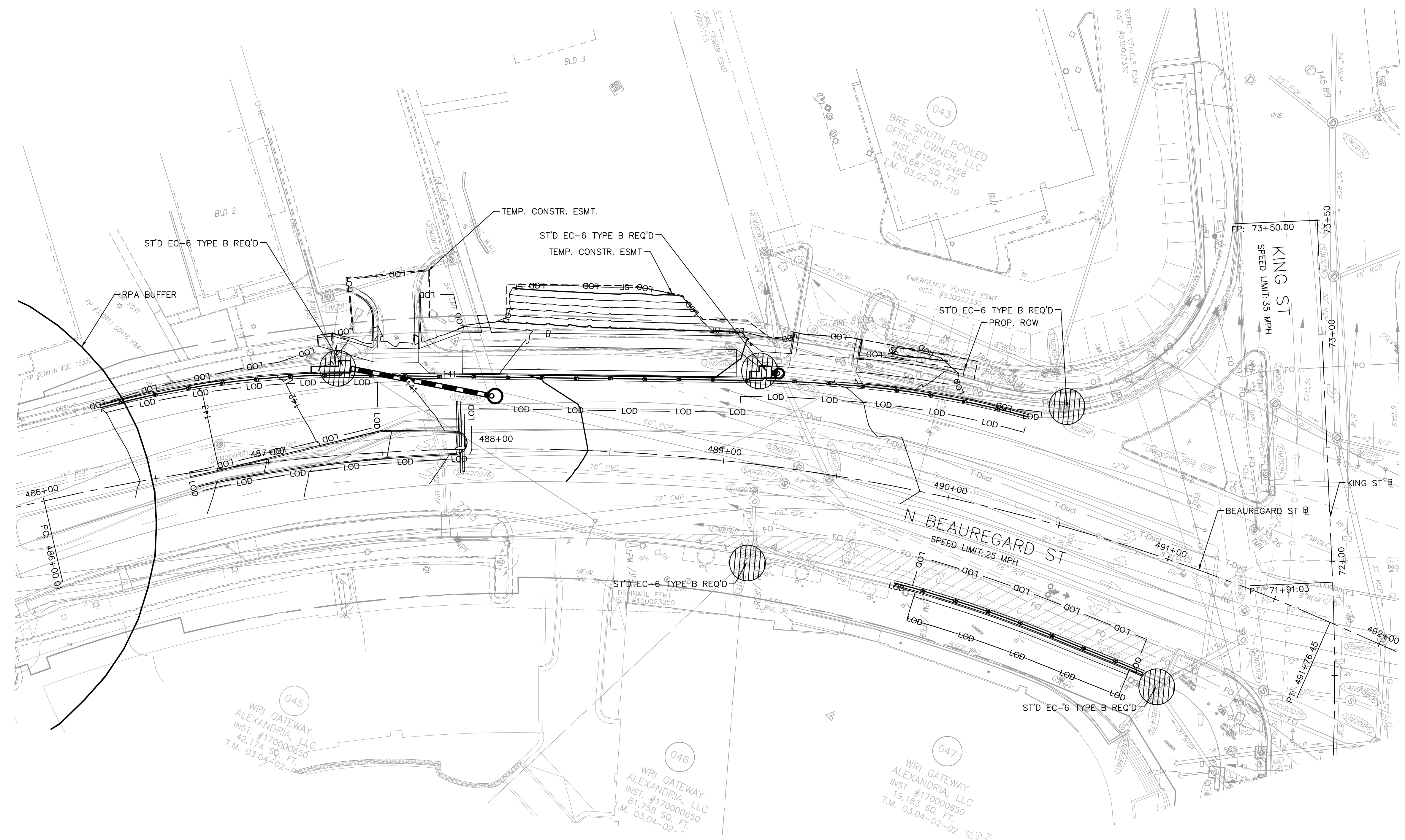
REVISIONS	DESCRIPTION
DATE	BY

ALEXANDRIA PROJECT NO.:	110104122
DATE OF PLAN ISSUANCE:	N/A
CONSULTANT PROJECT ID.:	N/A
DESIGNED BY:	MAT. DATE: 4/5/24
DRAWN BY:	AJB. DATE: 4/5/24
CHECKED BY:	EJD. DATE: 4/5/24
APPROVED BY:	DATE:

EROSION AND SEDIMENT CONTROL PHASE 2

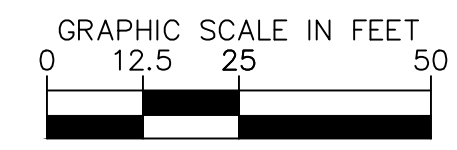
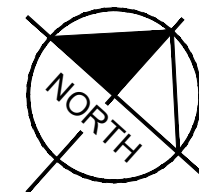
SHEET
 C-1213
 SCALE 1" = 25'

Plotted By: Waring, Megan Sheet Set: West End Transitway - Phase 1 Layout: C-1214 EROSION AND SEDIMENT CONTROL PHASE 2 July 12, 2024 08:48:13am K:\NVA_Transit\10104122_West_End_Transitway_Design\CADD\PlanSheets\E&S PLAN PHASE 2.dwg



EROSION AND SEDIMENT CONTROL LEGEND:

- INLET PROTECTION VDOT STD. EC-6 TYPE A,B
- SF SILT FENCE VDOT STD EC-5



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

EROSION AND SEDIMENT CONTROL PHASE 2

SHEET
C-1214
SCALE 1" = 25'

90% DESIGN PHASE



CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

REVISIONS	DESCRIPTION
DATE	BY

ALEXANDRIA PROJECT NO.: 110104122	DATE OF PLAN ISSUANCE: N/A
CONSULTANT PROJECT ID: N/A	DESIGNED BY: MAT DATE: 4/5/24
	DRAWN BY: AUB DATE: 4/5/24
	CHECKED BY: EJD DATE: 4/5/24
	APPROVED BY: _____ DATE: _____

Plotted By: Zegerico, Santiago Sheet Set: West End Transitway - Phase 1 Layout: C-1313 MOT PHASE 1a September 20, 2023 11:08:43am K:\NVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\MOT_BEAU AND BRADDOCK_Ph1to.dwg

TEMPORARY TRAFFIC CONTROL PLAN

1. TMP/SOC TYPE A PROJECT INFORMATION:

- A. IDENTIFY THE PROJECT'S TMP TYPE: THIS PROJECT'S TMP/SOC PLAN HAS BEEN DESIGNED IN CONFORMANCE WITH A TYPE A TMP/SOC PLAN,
B. IDENTIFY THE WORK ZONE LOCATION, LENGTH, AND WIDTHS: THE PROJECT LOCATION IS SHOWN ON THE TITLE SHEET. THE WORK ZONE AREAS HAVE BEEN DELINEATED AS SHOWN ON THE TEMPORARY TRAFFIC CONTROL SHEETS. THE WORK ZONE LENGTHS AND WIDTHS VARY BY LOCATION AS SHOWN ON THE TEMPORARY TRAFFIC CONTROL SHEETS.
C. NOTE THE HOURS THE CONSTRUCTION AREA WILL BE ACTIVE: CONSTRUCTION AREA SHALL BE CONSIDERED ACTIVE WHEN ANY IMPACT TO TRAFFIC OCCURS (1ST CONE IN ROAD). CONSTRUCTION AREA HOURS SHALL BE IN ACCORDANCE WITH THE LANE CLOSURES IN NOVA DISTRICT MEMORANDUM, DATED SEPTEMBER 29, 2016 AND HAVE THE FOLLOWING LIMITATIONS:

Table with 5 columns: DAY TIME, NIGHT TIME, MONDAY TO THURSDAY, FRIDAY, SATURDAY, SUNDAY. Rows for DAY TIME and NIGHT TIME.

* NIGHT TIME WORK SHALL NOT BE ALLOWED UNLESS APPROVED IN WRITING BY THE CITY OF ALEXANDRIA.

NO LANE CLOSURES WILL BE ALLOWED FROM NOON ON THE DAY BEFORE A HOLIDAY UNTIL NOON ON THE WORKDAY FOLLOWING THE HOLIDAY. HOLIDAYS INCLUDE ALL STATE AND FEDERAL HOLIDAYS. ANY AND ALL REQUESTS FOR DEVIATION FROM THE ALLOWABLE LANE CLOSURE HOURS, REGARDLESS OF PRIOR APPROVAL, SHALL BE SUBMITTED TO THE CITY OF ALEXANDRIA FOR REVIEW A MINIMUM OF FOURTEEN (14) DAYS IN ADVANCE OF THE WORK. LANE CLOSURES OR SHOULDER WORK SHALL NOT BEGIN IF HEAVY TRAFFIC OR SIGNIFICANT QUEUING AND BACKUPS ARE ALREADY PRESENT ALONG THE ROADWAY(S). THE CITY CONTRACT OFFICE MAY ADJUST LANE AND/OR SHOULDER CLOSURES HOURS OF OPERATION AT ANY TIME, AS NECESSARY, IF SIGNIFICANT TRAFFIC IMPACTS ROUTINELY DEVELOP AS A RESULT OF THE PROJECT OR CITIZEN COMPLAINTS.

DESIGNATION OF PEAK HOUR TIMES: PEAK HOURS ARE 6:00AM THROUGH 9:00AM AND 3:30PM THROUGH 6:30PM.

- D. THE CONSTRUCTION ZONE HAS BEEN SHOWN ON THE TEMPORARY TRAFFIC CONTROL SHEETS FOR POTENTIAL LOCATIONS FOR CONSTRUCTION EQUIPMENT AND MATERIAL STORAGE WITHIN THE RIGHT OF WAY. THE CONTRACTOR IS TO PROVIDE ADEQUATE PROTECTION FOR CONSTRUCTION ELEMENTS WITHIN THE CLEAR ZONE.
E. THE TMP/SOC PLAN, DURING CONSTRUCTION, SHALL BE IN ACCORDANCE WITH SECTIONS 512, 701, 703 & 704 OF THE VIRGINIA DEPARTMENT OF TRANSPORTATION ROAD AND BRIDGE SPECIFICATIONS, DATED 2020; THE VIRGINIA WORK AREA PROTECTION MANUAL DATED AUGUST 2011 AND UPDATED NOVEMBER 2020; THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), DATED 2009; THE VIRGINIA SUPPLEMENT TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, DATED 2011; AND IIM-LD-241.7 OF THE INSTRUCTIONAL AND INFORMATIONAL MEMORANDA.
F. NOTE ANY EXISTING ENTRANCES, EXISTING INTERSECTIONS, OR EXISTING PEDESTRIAN ACCESS POINTS THAT WILL BE AFFECTED BY THE CONSTRUCTION AREA OR BY THE TRAFFIC CONTROL DEVICES:

EXISTING ENTRANCES: ALL ENTRANCES ARE TO REMAIN OPEN AND FUNCTIONAL DURING CONSTRUCTION. IF DRIVEWAY RECONSTRUCTION IS NECESSARY, SEE SHEETS C-1311A - C-1311C, THE CONTRACTOR IS TO WORK WITH THE PROPERTY OWNER TO ESTABLISH A MUTUALLY AGREEABLE SCHEDULE TO CLOSE THE ENTRANCE.

EXISTING INTERSECTIONS: ALL EXISTING INTERSECTIONS ARE TO REMAIN OPEN AND FUNCTIONAL DURING CONSTRUCTION.

EXISTING PEDESTRIAN ACCESS POINTS: PEDESTRIANS ARE TO BE DIVERTED AWAY FROM THE CONSTRUCTION ZONE. ALL CROSSWALKS, USLESS OTHERWISE STATED ON SHEETS C-1303B - C-1303D, C-1304A - C-1304B, C-1307B - C-1307Q, AND C-1311B, ARE TO REMAIN OPEN.

EXISTING BUS STOPS: THE EXISTING BUS STOP ON SHEETS C-1302A - C-1302B, 1304B - C-1304C, C-1310E - C-1310H WILL BE TEMPORARILY RELOCATED AS NOTED ON THE PLANS TO REMAIN OPEN AND FUNCTIONAL DURING CONSTRUCTION CONTRACTOR TO COORDINATE TEMPORARY RELOCATIONS WITH DASH (703-746-3274) AND WMATA (202-637-7000) BEFORE CONSTRUCTION OR MODIFICATION TO THE BUS STOP.

- G. IDENTIFY THE MAJOR TYPES OF TRAVELERS: THE TRAFFIC ON THE ROADWAY CONSISTS PRIMARILY OF COMMUTER TRAFFIC WITH SOME PEDESTRIANS. THE SURROUNDING AREA IS RESIDENTIAL.
H. THE CONTRACTOR SHALL:

DESIGNATE A PERSON ASSIGNED TO THE PROJECT WHO WILL HAVE THE PRIMARY RESPONSIBILITY, WITH SUFFICIENT AUTHORITY, FOR IMPLEMENTING THE TMP/SOC AND OTHER SAFETY AND MOBILITY ASPECTS OF THE PERMIT WORK. THIS PERSON SHALL COORDINATE WITH THE CITY OF ALEXANDRIA CONSTRUCTION INSPECTOR FOR THE DURATION OF CONSTRUCTION.

ENSURE THAT PERSONNEL ASSIGNED TO THE PROJECT ARE TRAINED IN TRAFFIC CONTROL TO A LEVEL COMMENSURATE WITH THEIR RESPONSIBILITIES IN ACCORDANCE WITH VDOT'S WORK ZONE TRAFFIC CONTROL TRAINING GUIDELINES.

INFORM THE ENGINEER OF ANY WORK REQUIRING LANE SHIFTS, LANE CLOSURES, AND/OR PHASE CHANGES A MINIMUM OF TWO WORKING DAYS PRIOR TO IMPLEMENTING THIS ACTIVITY.

PERFORM REVIEWS OF THE CONSTRUCTION AREA TO ENSURE COMPLIANCE WITH CONTRACT DOCUMENTS AT REGULARLY SCHEDULED INTERVALS AT THE DIRECTION OF THE ENGINEER. CONTRACTOR SHALL MAINTAIN AN APPROVED COPY OF THE TEMPORARY TRAFFIC CONTROL PLAN AT THE WORK SITE AT ALL TIMES.

COORDINATE WITH THE CITY OF ALEXANDRIA POLICE DEPARTMENT AND THE CITY OF ALEXANDRIA FIRE/RESCUE DEPARTMENT FOR ANY LANE CLOSURES AND ANY DETOURS OF ANY NATURE.

SCHEDULE ALL PHASES OF CONSTRUCTION IN SUCH A MANNER THAT WATER, SANITARY SEWER, CABLE, FIBER CABLE/OPTIC CABLE, ANY OVERHANGING UTILITIES, AND ANY UNDERGROUND UTILITIES SERVICES WILL NOT BE INTERRUPTED.

CONTINUALLY MONITOR ALL LANE CLOSURES AND/OR DETOUR ROUTES AT ALL TIMES AND MAKE SPOT ADJUSTMENTS AS NEEDED TO EASE UNDUE BACKUPS, DELAYS, OR QUEUING AND REOPEN AVAILABLE LANES AS NECESSARY.

MAINTAIN AT LEAST ONE LANE OF TRAFFIC IN EACH DIRECTION DURING CONSTRUCTION OF THIS PROJECT AND PROVIDE A MINIMUM OF 10 FOOT WIDE LANES AT ALL TIMES DURING CONSTRUCTION, UNLESS APPROVED BY THE ENGINEER.

REMOVE SNOW AND DEBRIS FROM THE TEMPORARY PEDESTRIAN FACILITIES PROVIDED DURING CONSTRUCTION. EITHER CONSTRUCT A TEMPORARY PEDESTRIAN FACILITY OR REOPEN THE SIDEWALK IF NO WORK IS ACTIVELY BEING DONE AT A SITE.

REMOVE EACH TEMPORARY BUS STOP FACILITY AFTER THE CONSTRUCTION AND OPENING OF THE CORRESPONDING PROPOSED PERMANENT BUS STOP.

CONSIDER ALL TEMPORARY ASPHALT AND PAVEMENT MARKINGS AS INCIDENTAL TO THE MOT COST.

- 2. THIS TMP/SOC PLAN IS INTENDED AS A GUIDE. IT IS NOT TO ENUMERATE EVERY DETAIL WHICH MUST BE CONSIDERED IN THE CONSTRUCTION OF EACH PHASE, BUT ONLY TO SHOW THE GENERAL HANDLING OF EXISTING TRAFFIC. IF THE CONTRACTOR IS TO DEVIATE FROM THE APPROVED TMP, A NEW OR REVISED TMP MUST BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL.
3. ALL AREAS EXCAVATED BELOW THE EXISTING PAVEMENT SURFACE AND WITHIN THE CLEAR ZONE AT THE CONCLUSION OF EACH WORKDAY, SHALL BE BACKFILLED TO FORM AN APPROXIMATE 6:1 WEDGE AGAINST THE EXISTING PAVEMENT OR NEWLY CONSTRUCTED PAVEMENT SURFACE FOR THE SAFETY AND PROTECTION OF VEHICULAR TRAFFIC.
4. EACH PHASE OF CONSTRUCTION SHALL BE COMPLETED TO THE INSTALLATION OF INTERMEDIATE COURSE ASPHALT PRIOR TO THE START OF THE NEXT PHASE UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
5. CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE FOR THE DURATION OF THE PROJECT. CONTRACTOR SHALL ADD ANY ADDITIONAL TEMPORARY MEASURES NECESSARY TO FACILITATE PROPER, POSITIVE DRAINAGE FOR THE DURATION OF CONSTRUCTION. THE COST SHALL BE INCLUDED IN THE COST OF OTHER ITEMS.
6. UNLESS SPECIFIED ON THE PLANS, ALL EXISTING TURN LANES SHALL BE MAINTAINED AT ALL TIMES FOR THE DURATION OF CONSTRUCTION.
7. WHERE GROUP 2 CHANNELIZING DEVICES ARE USED TO SEPARATE THE CONSTRUCTION AREA AND TRAFFIC, A MINIMUM CLEAR ZONE AREA AS DEFINED IN THE VIRGINIA WORK AREA PROTECTION MANUAL (VWAPM) IS TO BE MAINTAINED.
8. THE CONTRACTOR IS TO COORDINATE WITH THE CITY OF ALEXANDRIA FOR LOCATION(S) OF THE CONSTRUCTION STAGING AREA. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS AS NECESSARY.
9. IMPLEMENTING THE TRANSPORTATION MANAGEMENT PLAN DURING THE FIRST DAY OF THE NEW WORK ZONE TRAFFIC PATTERN, THE PROJECT CONSTRUCTION MANAGER AND PROJECT CONSTRUCTION INSPECTOR SHALL INSPECT THE WORK ZONE TO ENSURE COMPLIANCE WITH THE TMP. ON THE THIRD TO FIFTH DAY OF IMPLEMENTATION OF THE TMP'S NEW WORK ZONE TRAFFIC PATTERN, THE CONSTRUCTION INSPECTOR SHALL CONDUCT AN ON-SITE REVIEW OF THE WORK ZONE'S PERFORMANCE IN COORDINATION WITH THE CITY OF ALEXANDRIA AND RECOMMEND TO THE CONTRACTOR ANY REQUIRED CHANGES TO THE TMP TO ENHANCE THE WORK ZONE'S SAFETY AND MOBILITY. ALL SUCH CHANGES SHALL BE DOCUMENTED. AN ON-SITE REVIEW OF THE PROJECT'S WORK ZONE TRAFFIC CONTROL BY THE CITY'S CONSTRUCTION INSPECTOR AND THE CONTRACTOR SHALL BE COMPLETED WITHIN 48 HOURS OF ANY FATAL ACCIDENT/CRASH WITHIN THE WORK ZONE.
10. EVALUATION OF THE TRANSPORTATION MANAGEMENT PLAN A PERFORMANCE ASSESSMENT OF THE TMP INCLUDING AREA-WIDE IMPACTS ON ADJACENT ROADWAYS SHALL BE PERFORMED BY THE CITY OF ALEXANDRIA WITH COORDINATION FROM THE ENGINEER DURING CONSTRUCTION. AS CIRCUMSTANCES DICTATE, A REVIEW OF THE OVERALL EFFECTIVENESS OF THE PROJECT'S TMP SHALL BE COMPLETED DURING THE POST CONSTRUCTION MEETING AND INCLUDED WITH THE POST CONSTRUCTION REPORT. A COPY OF THE SPECIFIC INFORMATION ON THE EFFECTIVENESS OF THE TMP WILL BE FORWARDED TO THE CITY OF ALEXANDRIA FOR REVIEW. A COPY OF THE TMP INTERIM/POST CONSTRUCTION REPORT FORM CAN BE OBTAINED FROM THE CITY OF ALEXANDRIA.
11. PUBLIC COMMUNICATIONS PLAN THE CONTRACTOR SHALL BE RESPONSIBLE FOR:
A. NOTIFYING THE PROJECT MANAGER AND CONSTRUCTION INSPECTOR TWO WEEKS IN ADVANCE OF ANY SCHEDULED WORK PLANS AND TRAFFIC DELAYS.
B. NOTIFYING THE PROJECT MANAGER, CONSTRUCTION INSPECTOR, AND CORRESPONDING ENGINEER OF ANY UNSCHEDULED TRAFFIC DELAYS
C. ENTERING ALL LANE AND/OR SHOULDER CLOSURES IN LCAMS AT LEAST TEN (10) DAYS IN ADVANCE OF THE WORK AND NO LATER THAN CLOSE OF BUSINESS WEDNESDAY THE WEEK PRIOR TO THE CLOSER (INCLUDE LOCATION, PURPOSE, SPECIFIC LANE(S), TIME, AND DURATION OF CLOSURE). ANY CONFLICTS GENERATED FROM LCAMS SHALL BE RESOLVED NO LATER THAN CLOSE OF BUSINESS THURSDAY THE WEEK PRIOR TO CLOSURE.
D. NOTIFYING AND/OR COORDINATE WITH LOCAL AREA SCHOOLS OF ALL CLOSURES AND TIMES TO AVOID ISSUE WITH SCHOOL BUILDING ACCESS AND/OR BUS SCHEDULES AND ROUTES.
14. TRANSPORTATION OPERATIONS THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING AND PROVIDING THE FOLLOWING:
A. NOTIFY THE VDOT NORTHERN REGION TRANSPORTATION OPERATIONS CENTER (TOC) AND THE CITY OF ALEXANDRIA CONTRACT OFFICER/INSPECTOR 15-45 MINUTES PRIOR TO EXECUTION EVERY LANE AND/OR SHOULDER CLOSURE AND CONTACT TOC AGAIN ONCE DAILY WORK HAS BEEN COMPLETED AND LANE AND/OR SHOULDER CLOSURE HAS BEEN REMOVED.
B. POST A LIST OF LOCAL EMERGENCY RESPONSE AGENCIES INSIDE THE PROJECT'S CONSTRUCTION OFFICE/TRAILER.
C. IMMEDIATELY REPORT ANY TRAFFIC INCIDENTS THAT MAY OCCUR IN THE WORK ZONE.
D. NOTIFY THE PROJECT CONSTRUCTION INSPECTOR AND CORRESPONDING ENGINEER OF ANY NEW INCIDENTS AND EXPECTED TRAFFIC DELAYS.
E. WITHIN 24 HOURS OF ANY INCIDENTS WITHIN THE CONSTRUCTION WORK ZONE, A REVIEW OF THE TRAFFIC CONTROLS SHALL BE COMPLETED AND NECESSARY ADJUSTMENTS MADE TO REDUCE THE FREQUENCY AND SEVERITY OF ANY FUTURE INCIDENTS.
F. NOTIFY THE VIRGINIA STATE POLICE AND LOCAL AREA LAW ENFORCEMENT AND EMERGENCY SERVICES OF ALL CLOSURES AND TIMES FOR SITUATIONAL AWARENESS.

CONTACT NUMBERS: CITY PROJECT MANAGER 703-746-4631 (Reginald Arno), CITY CONSTRUCTION MANAGER TBD, CITY CONSTRUCTION INSPECTOR TBD, DASH 703-746-3274, WMATA 202-637-7000, EMERGENCY CALL 911, NON-EMERGENCY NUMBERS: CITY OF ALEXANDRIA POLICE 703-746-4444, CITY OF ALEXANDRIA FIRE & RESCUE 703-746-4444

NOTE: THE DESIGNER, EDWARD J. DeLIO, P.E. HAS COMPLETED THE VDOT ADVANCED WORK ZONE TRAINING. VERIFICATION NUMBER 040122107. EXPIRATION DATE 04/30/2026.

90% DESIGN PHASE



CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

Table with 2 columns: REVISIONS, DESCRIPTION. Includes sub-headers DATE and BY.

Table with 2 columns: ALEXANDRIA PROJECT NO., DATE OF PLAN ISSUANCE, CONSULTANT PROJECT ID., DESIGNED BY, DRAWN BY, CHECKED BY, APPROVED BY. Includes dates like 4/5/24.

WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

TRANSPORTATION MANAGEMENT PLAN

SHEET C-1300A SCALE N/A

GENERAL CONSTRUCTION NOTES AND SEQUENCE OF CONSTRUCTION

- 1. THE CONTRACTOR SHALL MAKE ANY NECESSARY ADJUSTMENTS DURING BOTH WORK AND NON-WORK HOURS TO ENSURE THE PROTECTION AND SAFETY OF THE ADJACENT PROPERTY OWNERS, PEDESTRIANS, VEHICULAR TRAFFIC, AND THE GENERAL PUBLIC FROM ANY CONSTRUCTION RELATED ACTIVITY, CONSTRUCTION EQUIPMENT, AND THE CONSTRUCTION SITE ITSELF.
2. NO LANE CLOSURES WILL BE ALLOWED OUTSIDE OF THE CONSTRUCTION AREA HOURS, UNLESS APPROVED BY THE ENGINEER AND VDOT. ALL LANE AND/OR SHOULDER CLOSURES SHALL BE COMPLETELY REMOVED ON A DAILY BASIS TO FULLY OPEN ALL LANES TO TRAFFIC.
3. TAPER LENGTH AND BUFFER SPACE SHOWN ON THE TEMPORARY TRAFFIC CONTROL SHEETS ARE NOT TO SCALE. THE LENGTHS HAVE BEEN CALLED OUT ON THE PLANS. SEE THE VIRGINIA WORK AREA PROTECTION MANUAL FOR TAPER AND BUFFER PLACEMENT.
4. CONTRACTOR SHALL COORDINATE ALL BUS STOP IMPROVEMENTS OR MODIFICATIONS WITH THE CITY OF ALEXANDRIA, DASH, AND WMATA BEFORE CONSTRUCTION.
5. CONTRACTOR SHALL INSTALL ALL PROPOSED/REQUIRED EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO STARTING ANY LAND DISTURBING ACTIVITIES.
6. THE CONTRACTOR SHALL PROVIDE VDOT APPROVED TRAFFIC CONTROL FOR STAKEOUT IN THE TRAVEL LANES.

UNLESS OTHERWISE APPROVED OR DIRECTED BY THE ENGINEER THE CONTRACTOR SHALL PLAN AND PROSECUTE THE WORK IN ACCORDANCE WITH THE FOLLOWING SEQUENCE OF CONSTRUCTION:

S VAN DORN STREET AT METRO ROAD

- 1. PHASE 1
1.1. THE CONTRACTOR SHALL SET UP PHASE 1 EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
1.2. INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 16.2 AND 35.1.
1.3. CONSTRUCT THE SIDEWALK, PLATFORM, AND CURB AND GUTTER FOR THE SOUTHBOUND BUS STATION FROM STA. 119+18.39 TO STA. 121+55.68
1.4. CONSTRUCT THE SIDEWALK, AND CURB AND GUTTER NORTHBOUND FROM STA. 120+87.74 TO STA. 121+55.68
2. PHASE 2
2.1. THE CONTRACTOR SHALL SET UP EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
2.2. INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 16.2 AND 39.2.
2.3. CONSTRUCT THE RAMP WITH METRO ROAD AND MILL AND OVERLAY THE OUTSIDE SOUTHBOUND LANE OF VAN DORN STREET FROM STA. 103+60.28 TO STA. 110+31.60.
3. PHASE 3
3.1. THE CONTRACTOR SHALL SET UP EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
3.2. INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 16.2 AND 39.2.
3.3. MILL AND OVERLAY THE CENTER SOUTHBOUND LANE OF VAN DORN STREET FROM STA. 103+65.33 TO STA. 110+31.60.

S VAN DORN STREET AT S PICKETT STREET

- 1. PHASE 1
1.1. THE CONTRACTOR SHALL SET UP PHASE 1 EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
1.2. INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 16.2 AND 35.1.
1.3. CONSTRUCT THE SIDEWALK, PLATFORM, AND CURB AND GUTTER FOR THE SOUTHBOUND BUS STATION FROM STA. 119+18.39 TO STA. 121+55.68
1.4. CONSTRUCT THE SIDEWALK, AND CURB AND GUTTER NORTHBOUND FROM STA. 120+87.74 TO STA. 121+55.68
2. PHASE 2
2.1. THE CONTRACTOR SHALL SET UP PHASE 1 EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
2.2. INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 16.2 AND 41.2.
2.3. CONSTRUCT THE SIDEWALK, PLATFORM, AND CURB AND GUTTER FOR THE NORTHBOUND BUS STATIONS FROM STA. 121+95.74 TO STA. 123+92.46.
2.4. CONSTRUCT THE SIDEWALK, AND CURB AND GUTTER SOUTHBOUND FROM STA. 121+95.74 TO STA. 122+77.43.
3. PHASE 3
3.1. THE CONTRACTOR SHALL SET UP PHASE 1 EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
3.2. INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 16.2.
3.3. CONSTRUCT THE CONCRETE BUS PAD AND MILL AND OVERLAY THE OUTSIDE SOUTHBOUND LANE OF VAN DORN STREET FROM STA. 119+20.39 TO STA. 121+62.33. AND THE OUTSIDE LANE OF NORTHBOUND VAN DORN STREET FROM STA. 122+21.56 TO STA. 124+07.62
4. PHASE 4
4.1. THE CONTRACTOR SHALL SET UP PHASE 1 EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
4.2. INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 17.2.
4.3. MILL AND OVERLAY THE CENTER SOUTHBOUND LANE OF VAN DORN STREET FROM STA. 103+65.33 TO STA. 121+06.13 AND STA. 122+21.56 AND STA. 110+31.60.
5. PHASE 5
5.1. THE CONTRACTOR SHALL SET UP PHASE 1 EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
5.2. INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 17.2 AND 26.2.
5.3. CONSTRUCT THE MEDIAN ON PICKETT STREET FROM STA. 121+46.79 TO STA. 121+75.84.

S VAN DORN STREET AT STEVENSON AVENUE

- 1. PHASE 1
1.1. THE CONTRACTOR SHALL SET UP EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
1.2. INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH PLAN SHEET C-1303A.
1.3. DEMOLISH THE MEDIAN AND INSTALL TEMPORARY PAVEMENT ON STEVENSON AVENUE FROM STA. 147+93.38 TO STA. 148+03.23.
2. PHASE 2A
2.1. THE CONTRACTOR SHALL SET UP EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
2.2. INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 17.2.
2.3. CONSTRUCT THE SIDEWALK, PLATFORM, CURB AND GUTTER, AND CONCRETE BUS PAD FOR THE NORTHBOUND BUS STATIONS AND OUTSIDE LANE MILL AND OVERLAY ALONG VAN DORN STREET FROM STA. 145+80.00 TO STA. 147+85.33.
3. PHASE 2B
3.1. THE CONTRACTOR SHALL SET UP EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
3.2. INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 17.2.
3.3. CONSTRUCT THE SIDEWALK, PLATFORM, CURB AND GUTTER, AND OUTSIDE LANE MILL AND OVERLAY ALONG VAN DORN STREET FROM STA. 148+13.66 TO STA. 149+88.79.
4. PHASE 3
4.1. THE CONTRACTOR SHALL SET UP EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
4.2. INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 17.2 AND 39.2.
4.3. CONSTRUCT THE SIDEWALK, PLATFORM, CURB AND GUTTER, AND CONCRETE BUS PAD FOR THE SOUTHBOUND BUS STATIONS AND OUTSIDE LANE. MILL AND OVERLAY ALONG VAN DORN STREET AND STEVENSON AVENUE FROM STA. 148+09.51 TO STA. 152+62.45.
5. PHASE 4
5.1. THE CONTRACTOR SHALL SET UP EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
5.2. INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 17.2 AND 39.2.
5.3. CONSTRUCT THE MEDIAN ON STEVENSON AVENUE AND MILL AND OVERLAY THE OUTSIDE LANE ALONG VAN DORN STREET FROM STA. 147+86.35 TO STA. 148+13.66.

N VAN DORN STREET AT HOLMES RUN PARKWAY

- 1. PHASE 1
1.1. THE CONTRACTOR SHALL SET UP PHASE 1 EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
1.2. INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 16.2 AND 17.2.
1.3. CONSTRUCT THE SIDEWALK, PLATFORM, CURB AND GUTTER, AND CONCRETE BUS PAD FOR THE SOUTHBOUND BUS STATIONS AND OUTSIDE LANE MILL AND OVERLAY ALONG VAN DORN STREET FROM STA. 178+41.29 TO STA. 179+96.96
2. PHASE 2A
2.1. THE CONTRACTOR SHALL SET UP PHASE 1 EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
2.2. INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 16.2 AND 41.2.
2.3. CONSTRUCT THE SIDEWALK, PLATFORM, AND CURB AND GUTTER, FOR THE NORTHBOUND BUS STATIONS OF VAN DORN STREET FROM STA. 176+11.44 TO STA. 179+72.28.
2.4. TEMPORARY ADA CURB RAMPS ARE TO REMAIN FOR THE SUBSEQUENT PHASES.
3. PHASE 2B
3.1. THE CONTRACTOR SHALL SET UP PHASE 1 EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
3.2. INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 16.2.
3.3. CONSTRUCT THE CONCRETE BUS PAD FOR THE NORTHBOUND BUS STATIONS AND NORTHBOUND OUTSIDE LANE MILL AND OVERLAY OF VAN DORN STREET FROM STA. 176+11.44 TO STA. 179+83.31.
4. PHASE 3
4.1. THE CONTRACTOR SHALL SET UP PHASE 1 EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
4.2. INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 17.2 AND 27.2.
4.3. MILL AND OVERLAY THE NORTHBOUND INSIDE LANE OF VAN DORN STREET AND THE SOUTHBOUND INSIDE LANE OF VAN DORN STREET FROM STA. 176+11.44 TO STA. 179+96.96.

- 5. PHASE 4
5.1. THE CONTRACTOR SHALL SET UP PHASE 1 EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
5.2. INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 16.2.
5.3. CONSTRUCT THE SIDEWALK, CURB AND GUTTER, AND MILL AND OVERLAY THE SOUTHBOUND OUTSIDE LANE OF VAN DORN STREET THROUGH THE INTERSECTION WITH HOLMES RUN PARKWAY FROM STA. 180+30.49 TO STA. 180+67.87.
6. PHASE 5
6.1. THE CONTRACTOR SHALL SET UP PHASE 1 EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
6.2. INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 16.2.
6.3. CONSTRUCT THE SIDEWALK AND CURB AND GUTTER, AND MILL AND OVERLAY THE NORTHBOUND OUTSIDE LANE OF VAN DORN STREET THROUGH THE INTERSECTION WITH HOLMES RUN PARKWAY FROM STA. 179+96.96 TO STA. 180+67.87.
6.4. REMOVE TEMP. ADA CURB RAMPS ALONG HOLMES RUN PARKWAY AFTER FINAL PAVEMENT SECTION IS CONSTRUCTED AND PRIOR TO REMOVING MOT SET-UP FOR THIS PHASE. RESTORE THE AREA.
7. PHASE 6A
7.1. THE CONTRACTOR SHALL SET UP PHASE 1 EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
7.2. INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 16.2 AND 17.2.
7.3. MILL AND OVERLAY THE NORTHBOUND OUTSIDE LANE OF VAN DORN STREET THROUGH THE INTERSECTION WITH HOLMES RUN PARKWAY FROM STA. 179+79.13 TO STA. 179+97.79.
8. PHASE 6B
8.1. THE CONTRACTOR SHALL SET UP PHASE 1 EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
8.2. INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 42.2.
8.3. MILL AND OVERLAY THE NORTHBOUND AND SOUTHBOUND INSIDE LANE OF VAN DORN STREET THROUGH THE INTERSECTION WITH HOLMES RUN PARKWAY FROM STA. 179+96.96 TO STA. 180+26.12.
9. PHASE 6C
9.1. THE CONTRACTOR SHALL SET UP PHASE 1 EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
9.2. INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 27.2.
9.3. MILL AND OVERLAY THE SOUTHBOUND CENTER LANE OF VAN DORN STREET THROUGH THE INTERSECTION WITH HOLMES RUN PARKWAY FROM STA. 179+96.96 TO STA. 180+26.12.
10. PHASE 6D
10.1. THE CONTRACTOR SHALL SET UP PHASE 1 EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
10.2. INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 18.2.
10.3. MILL AND OVERLAY THE SOUTHBOUND OUTSIDE LANE OF VAN DORN STREET THROUGH THE INTERSECTION WITH HOLMES RUN PARKWAY FROM STA. 179+96.96 TO STA. 180+26.12.

N VAN DORN STREET AT SANGER AVENUE

- 1. PHASE 1A
1.1. THE CONTRACTOR SHALL SET UP EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
1.2. INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 16.2 AND 35.1.
1.3. CONSTRUCT THE SIDEWALK, PLATFORM, AND CURB AND GUTTER FOR THE SOUTHBOUND BUS STATIONS AND OUTSIDE LANE MILL AND OVERLAY ALONG VAN DORN STREET FROM STA. 200+37.94 TO STA. 201+62.34.
2. PHASE 1B
2.1. THE CONTRACTOR SHALL SET UP EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
2.2. INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 16.2.
2.3. CONSTRUCT THE CONCRETE BUS PAD, MEDIAN, AND MILL AND OVERLAY FOR THE SOUTHBOUND BUS STATIONS OF VAN DORN STREET FROM STA. 199+95.25 TO STA. 201+67.84.
3. PHASE 1C
3.1. THE CONTRACTOR SHALL SET UP EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
3.2. INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 16.2.
3.3. CONSTRUCT THE MEDIAN ALONG RICHENBACHER AVE FROM STA. 201+49.60 TO STA. 201+79.34.
4. PHASE 1D
4.1. THE CONTRACTOR SHALL SET UP EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
4.2. INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 35.1.
4.3. CONSTRUCT THE SIDEWALK, CURB RAMPS, AND CURB AND GITTER ON VAN DORN STREET FROM STA. 201+95.46 TO STA. 202+61.22.
5. PHASE 2
5.1. THE CONTRACTOR SHALL SET UP EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
5.2. INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 16.2 AND 35.1.
5.3. CONSTRUCT THE SIDEWALK, CURB RAMPS, AND CURB AND GITTER ON VAN DORN STREET FROM STA. 201+75.12 TO STA. 202+44.12.
6. PHASE 3
6.1. THE CONTRACTOR SHALL SET UP EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
6.2. INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 16.2 AND 35.1.
6.3. CONSTRUCT THE SIDEWALK, CURB RAMPS, AND CURB AND GITTER ON VAN DORN STREET FROM STA. 198+88.10 TO STA. 201+47.85.
7. PHASE 4A
7.1. THE CONTRACTOR SHALL SET UP EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
7.2. INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 42.2.
7.3. MILL AND OVERLAY THE NORTHBOUND AND SOUTHBOUND INSIDE LANE OF VAN DORN STREET FROM STA. 200+25.28 TO STA. 201+47.85.
8. PHASE 4B
8.1. THE CONTRACTOR SHALL SET UP EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
8.2. INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 42.2.
8.3. MILL AND OVERLAY THE NORTHBOUND AND SOUTHBOUND INSIDE LANE OF VAN DORN STREET FROM STA. 201+77.41 TO STA. 202+11.90.
9. PHASE 4C
9.1. THE CONTRACTOR SHALL SET UP EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
9.2. INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 16.2.
9.3. MILL AND OVERLAY THE NORTHBOUND OUTSIDE LANE OF VAN DORN STREET FROM STA. 201+73.88 TO STA. 202+03.18.
10. PHASE 4D
10.1. THE CONTRACTOR SHALL SET UP EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
10.2. INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 16.2.
10.3. MILL AND OVERLAY THE SOUTHBOUND OUTSIDE LANE OF VAN DORN STREET FROM STA. 201+87.21 TO STA. 202+15.18.
11. PHASE 4E
11.1. THE CONTRACTOR SHALL SET UP EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
11.2. INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 16.2.
11.3. MILL AND OVERLAY THE NORTHBOUND OUTSIDE LANE OF VAN DORN STREET THROUGH THE INTERSECTION WITH SANGER AVENUE FROM STA. 201+61.42 TO STA. 200+00.00.
12. PHASE 4F
12.1. THE CONTRACTOR SHALL SET UP EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
12.2. INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 42.2.
12.3. MILL AND OVERLAY THE NORTHBOUND AND SOUTHBOUND INSIDE LANE OF VAN DORN STREET THROUGH THE INTERSECTION WITH SANGER AVENUE FROM STA. 201+77.41 TO STA. 202+11.90.
13. PHASE 4G
13.1. THE CONTRACTOR SHALL SET UP EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
13.2. INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 16.2.
13.3. MILL AND OVERLAY THE SOUTHBOUND OUTSIDE LANE OF VAN DORN STREET THROUGH THE INTERSECTION WITH SANGER AVENUE FROM STA. 201+47.36 TO STA. 201+77.18.

BEAUREGARD STREET AT SANGER AVENUE

- 1. PHASE 1
1.1. THE CONTRACTOR SHALL SET UP EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
1.2. INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 16.2 AND 35.1.
1.3. CONSTRUCT THE CURB RAMPS, SIDEWALK, CURB AND GUTTER, AND THE PEDESTRIAN SIGNAL AT THE INTERSECTION OF SANGER AVENUE AND TRENT COURT FROM STA. 317+75.74 TO STA. 318+25.58.
2. PHASE 2A
2.1. THE CONTRACTOR SHALL SET UP EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
2.2. INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 35.1, 41.2 AND 60.0.
2.3. CONSTRUCT THE SIDEWALK, PLATFORM, CURB AND GUTTER, AND CONCRETE BUS PAD FOR THE EASTBOUND BUS STATION AND MILL AND OVERLAY OUTSIDE LANE ALONG SANGER AVENUE FROM STA. 317+75.74 TO STA. 319+37.19.
3. PHASE 2B
3.1. THE CONTRACTOR SHALL SET UP EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
3.2. INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 16.2 AND 35.1.
3.3. CONSTRUCT THE SIDEWALK, CURB AND GUTTER, AND MILL AND OVERLAY OUTSIDE LANE ALONG EASTBOUND SANGER AVENUE FROM STA. 319+37.19 TO STA. 321+17.24.
4. PHASE 3A
4.1. THE CONTRACTOR SHALL SET UP EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
4.2. INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 35.1, 41.2 AND 60.0.
4.3. CONSTRUCT THE SIDEWALK, PLATFORM, CURB AND GUTTER, AND CONCRETE BUS PAD FOR THE WESTBOUND BUS STATIONS AND MILL AND OVERLAY OUTSIDE LANE ALONG SANGER AVENUE FROM STA. 317+74.66 TO STA. 319+36.08.

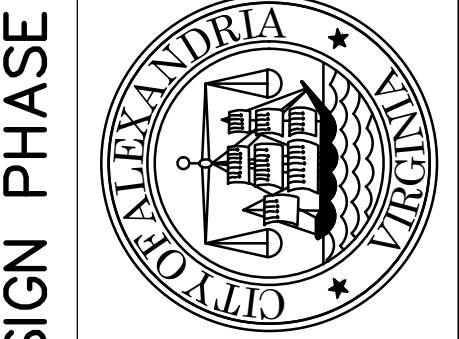
- 5. PHASE 3B
5.1. THE CONTRACTOR SHALL SET UP EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
5.2. INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 16.2 AND 35.1.
5.3. CONSTRUCT THE SIDEWALK, CURB AND GUTTER, AND OUTSIDE LANE MILL AND OVERLAY ALONG WESTBOUND SANGER AVENUE FROM STA. 319+36.08 TO STA. 321+15.72.
6. PHASE 4A
6.1. THE CONTRACTOR SHALL SET UP EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
6.2. INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 16.2 AND 35.1.
6.3. CONSTRUCT THE SIDEWALK, CURB RAMPS, AND THE PEDESTRIAN AND TRAFFIC SIGNAL ON SOUTHBOUND BEAUREGARD STREET FROM STA. 350.28.32 TO STA. 351+28.71.
7. PHASE 4B
7.1. THE CONTRACTOR SHALL SET UP EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
7.2. INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 16.2, 35.1, 41.2, 60.0.
7.3. CONSTRUCT THE CURB AND GUTTER AND MILL AND OVERLAY WESTBOUND SANGER AVENUE FROM STA. 350+28.32 TO STA. 351+28.71.
8. PHASE 4C
8.1. THE CONTRACTOR SHALL SET UP EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
8.2. INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 16.2, 41.2, 60.0.
8.3. MILL AND OVERLAY INSIDE WESTBOUND LANE SANGER AVENUE FROM STA. 350+19.74 TO STA. 351+24.72.
9. PHASE 4D
9.1. THE CONTRACTOR SHALL SET UP EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
9.2. INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 17.2, 41.2, 60.0.
9.3. MILL AND OVERLAY THE ON INSIDE WESTBOUND LANE SANGER AVENUE THROUGH THE INTERSECTION WITH BEAUREGARD STREET FROM STA. 403+57.70 TO STA. 403+71.32.
10. PHASE 5
10.1. THE CONTRACTOR SHALL SET UP EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
10.2. INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 16.2 AND 35.1.
10.3. CONSTRUCT THE SIDEWALK, CURB AND GUTTER, CURB RAMPS, AND OUTSIDE LANE MILL AND OVERLAY ALONG EASTBOUND SANGER AVENUE FROM STA. 350+27.65 TO STA. 351+23.61.
11. PHASE 6
11.1. THE CONTRACTOR SHALL SET UP EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
11.2. INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 16.2 AND 35.1.
11.3. CONSTRUCT THE MEDIAN AND LEFT TURN LANE. MILL AND OVERLAY ALONG EASTBOUND AND WESTBOUND BEAUREGARD STREET FROM STA. 402+90.87 TO STA. 403+46.47 AND STA. 403+71.72 TO STA. 404+23.10.
12. PHASE 7A
12.1. THE CONTRACTOR SHALL SET UP EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
12.2. INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 16.2 AND 42.2.
12.3. MILL AND OVERLAY THE INSIDE EASTBOUND AND WESTBOUND LANES OF SANGER AVENUE FROM STA. 317+75.39 TO STA. 321+24.47.
13. PHASE 7B
13.1. THE CONTRACTOR SHALL SET UP EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
13.2. INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 16.2.
13.3. MILL AND OVERLAY THE OUTSIDE NORTHBOUND LANE ON BEAREGARD STREET FROM STA. 402+90.87 TO STA. 403+46.47 AND STA. 403+71.72 TO STA. 404+23.10.
14. PHASE 7C
14.1. THE CONTRACTOR SHALL SET UP EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
14.2. INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 26.2.
14.3. MILL AND OVERLAY THE CENTER NORTHBOUND LANE ON BEAREGARD STREET FROM STA. 402+90.87 TO STA. 403+46.47.
15. PHASE 7D
15.1. THE CONTRACTOR SHALL SET UP EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
15.2. INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 16.2.
15.3. MILL AND OVERLAY THE OUTSIDE SOUTHBOUND LANE ON BEAREGARD STREET FROM STA. 402+90.87 TO STA. 403+46.47 AND STA. 403+71.72 TO STA. 404+23.10.
16. PHASE 7E
16.1. THE CONTRACTOR SHALL SET UP EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
16.2. INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 26.2.
16.3. MILL AND OVERLAY THE CENTER SOUTHBOUND LANE ON BEAREGARD STREET FROM STA. 403+71.72 TO STA. 404+23.10.
17. PHASE 7F
17.1. THE CONTRACTOR SHALL SET UP EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
17.2. INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 17.2.
17.3. MILL AND OVERLAY THE INSIDE WESTBOUND LANE ON SANGER AVENUE FROM STA. 350+19.78 TO STA. 351+24.50.
18. PHASE 7G
18.1. THE CONTRACTOR SHALL SET UP EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
18.2. INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 17.2.
18.3. MILL AND OVERLAY THE INSIDE WESTBOUND LANE ON SANGER AVENUE THROUGH THE INTERSECTION WITH BEAUREGARD STREET FROM STA. 403+46.55 TO STA. 403+57.70.

BEAUREGARD STREET AT RAYBURN ST

- 1. PHASE 1
1.1. THE CONTRACTOR SHALL SET UP PHASE 1 EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
1.2. INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 17.2 AND 35.1.
1.3. CONSTRUCT THE SIDEWALK, PLATFORM, AND CURB AND GUTTER FOR THE NORTHBOUND AND SOUTHBOUND BUS STATIONS ALONG BEAUREGARD STREET FROM STA. 427+29.99 TO STA. 429+31.79 AND STA. 429+76.36 TO STA. 431+73.75.
2. PHASE 2
2.1. THE CONTRACTOR SHALL SET UP PHASE 1 EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
2.2. INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 17.2 AND 35.1.
2.3. CONSTRUCT THE CONCRETE BUS PAD FOR THE NORTHBOUND AND SOUTHBOUND BUS STATIONS ALONG BEAUREGARD STREET FROM STA. 427+67.70 TO STA. 428+83.69 AND STA. 430+48.87 TO STA. 431+52.59.
3. PHASE 3
3.1. THE CONTRACTOR SHALL SET UP PHASE 1 EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
3.2. INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 16.2 AND 39.2.
3.3. CONSTRUCT THE MILL AND OVERLAY FOR THE NORTHBOUND AND SOUTHBOUND BUS STATIONS ALONG BEAUREGARD STREET FROM STA. 427+29.99 TO STA. 429+31.79 AND STA. 429+76.36 TO STA. 431+73.75.
4. PHASE 4
4.1. THE CONTRACTOR SHALL SET UP PHASE 1 EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
4.2. INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 17.2 AND 35.1.
4.3. CONSTRUCT THE SIDEWALK AND CURB AND GUTTER FOR THE NORTHBOUND CORNER OF BEAUREGARD STREET AND RAYBURN AVENUE FROM STA. 428+91.08 TO STA. 429+47.68.
5. PHASE 5
5.1. THE CONTRACTOR SHALL SET UP PHASE 1 EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
5.2. INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 17.2 AND 35.1.
5.3. CONSTRUCT THE SIDEWALK AND CURB AND GUTTER FOR THE SOUTHBOUND CORNER OF BEAUREGARD STREET AND RAYBURN AVENUE FROM STA. 429+66.72 TO STA. 430+22.85.

BEAUREGARD STREET AT FILMORE STREET

- 1. PHASE 1A
1.1. THE CONTRACTOR SHALL SET UP EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
1.2. INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 17.2 AND 35.1.
1.3. CONSTRUCT THE SIDEWALK, PLATFORM, AND CURB AND GUTTER FOR THE NORTHBOUND AND SOUTHBOUND BUS STATIONS ALONG BEAUREGARD STREET FROM STA. 463+70.98 TO STA. 465+61.33 AND STA. 466+25.85 TO STA. 468+8614.
2. PHASE 1B
2.1. THE CONTRACTOR SHALL SET UP EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
2.2. INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 16.2.
2.3. CONSTRUCT THE CONCRETE BUS PAD AND MILL AND OVERLAY THE OUTSIDE NORTHBOUND AND SOUTHBOUND LANE OF BEAUREGARD STREET FROM STA. 463+70.98 TO STA. 465+61.33 AND STA. 466+48.37 TO STA. 468+8614.
3. PHASE 2
3.1. THE CONTRACTOR SHALL SET UP EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
3.2. INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 16.2 AND 39.2.
3.3. MILL AND OVERLAY THE NORTHBOUND AND SOUTHBOUND CENTER AND LEFT TURN LANE OF BEAUREGARD STREET FROM STA. 463+70.98 TO STA. 465+61.33 AND STA. 466+48.37 TO STA. 468+8614.



CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

Table with 2 columns: REVISIONS, DESCRIPTION. Includes fields for DATE and BY.

Table with 2 columns: ALEXANDRIA PROJECT NO., DATE OF PLAN ISSUANCE. Includes fields for PROJECT ID, DESIGNED BY, DRAWN BY, CHECKED BY, APPROVED BY.

WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS
SEQUENCE OF CONSTRUCTION
SHEET C-1300B
SCALE N/A

Plotted By: Zegoroc, Santiago Sheet: Set: West End Transitway - Phase 1 Layout: C-1313 MOT PHASE 10 September 20, 2023 11:08:43am K:\NVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\MOT_BEAU AND BRADDOCK_P110.dwg

Plotted By: Zegerro, Santiago Sheet Set: West End Transitway - Phase 1 Layout: C-1313 MOT PHASE 1 September 20, 2023 11:08:43am K:\NVA_Transit\110104122_Weat End Transitway Design\CADD\PlanSheets\MOT_BEAU AND BRADDOCK PH1to.dwg

BEAUREGARD STREET AT W BRADDOCK ROAD

1. PHASE 1A
 - 1.1. THE CONTRACTOR SHALL SET UP EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
 - 1.2. INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 17.2 AND 35.1.
 - 1.3. CONSTRUCT THE MEDIAN ON THE SOUTH SIDE OF BEAUREGARD STREET AND MILL AND OVERLAY THE NORTHBOUND LEFT TURN LANE AND THE SOUTHBOUND INSIDE LANE FROM STA. 474+96.48 TO STA. 477+07.13.
2. PHASE 1B
 - 2.1. THE CONTRACTOR SHALL SET UP EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
 - 2.2. INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 17.2 AND 35.1.
 - 2.3. CONSTRUCT THE MEDIAN ON THE NORTH SIDE OF BEAUREGARD STREET AND MILL AND OVERLAY THE SOUTHBOUND LEFT TURN LANE AND THE NORTHBOUND INSIDE LANE FROM STA. 477+45.98 TO STA. 479+03.81.
3. PHASE 2A
 - 3.1. THE CONTRACTOR SHALL SET UP EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
 - 3.2. INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 17.2 AND 35.1.
 - 3.3. CONSTRUCT THE MEDIAN ON THE EAST SIDE OF BRADDOCK ROAD AND MILL AND OVERLAY THE EASTBOUND AND WESTBOUND INSIDE LANE FROM STA. 477+10.88 TO STA. 477+43.71.
4. PHASE 2B
 - 4.1. THE CONTRACTOR SHALL SET UP EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
 - 4.2. INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 16.2 AND 35.1.
 - 4.3. CONSTRUCT THE SIDEWALK, PLATFORM, CURB RAMPS, AND CURB AND GUTTER FOR THE NORTHBOUND BUS STATION ON BEAUREGARD STREET FROM STA. 474+49.46 TO STA. 477+01.73 AND STA. 477+52.88 TO STA. 478+53.77.
5. PHASE 2C
 - 5.1. THE CONTRACTOR SHALL SET UP EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
 - 5.2. INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 16.2.
 - 5.3. CONSTRUCT THE CONCRETE BUS PAD FOR THE NORTHBOUND BUS STATION ON BEAUREGARD STREET AND MILL AND OVERLAY THE NORTHBOUND OUTSIDE LANE ON BEAUREGARD STREET, AND THE OUTSIDE WESTBOUND LANE ON BRADDOCK ROAD FROM STA. 474+49.46 TO STA. 477+10.43 AND STA. 477+47.65 TO STA. 478+63.57.
6. PHASE 3A
 - 6.1. THE CONTRACTOR SHALL SET UP EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
 - 6.2. INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 16.2 AND 35.1.
 - 6.3. CONSTRUCT THE SIDEWALK, PLATFORM, CURB RAMPS, AND CURB AND GUTTER FOR THE SOUTHBOUND BUS STATION ON BEAUREGARD STREET FROM STA. 474+87.77 TO STA. 476+95.54 AND STA. 477+52.27 TO STA. 478+08.31.
7. PHASE 3B
 - 7.1. THE CONTRACTOR SHALL SET UP EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
 - 7.2. INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 16.2.
 - 7.3. CONSTRUCT THE CONCRETE BUS PAD FOR THE SOUTHBOUND BUS STATION ON BEAUREGARD STREET AND MILL AND OVERLAY THE SOUTHBOUND OUTSIDE LANE ON BEAUREGARD STREET FROM STA. 474+94.14 TO STA. 477+06.11 AND STA. 477+46.80 TO STA. 479+02.91.
8. PHASE 4A
 - 8.1. THE CONTRACTOR SHALL SET UP PHASE 1 EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
 - 8.2. INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 17.2.
 - 8.3. CONSTRUCT THE MEDIAN OF CAMPUS DRIVE FROM STA. 477+09.46 TO STA. 477+42.71.
 - 8.4.
9. PHASE 4B
 - 9.1. THE CONTRACTOR SHALL SET UP EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
 - 9.2. INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 16.2.
 - 9.3. MILL AND OVERLAY THE SOUTHBOUND OUTSIDE LANE OF BEAUREGARD STEET FROM STA. 477+46.80 TO STA. 479+02.41.
10. PHASE 4C
 - 10.1. THE CONTRACTOR SHALL SET UP EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
 - 10.2. INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 16.2.
 - 10.3. MILL AND OVERLAY THE NORTHBOUND CENTER LANE OF BEAUREGARD STEET FROM STA. 475+29.65 TO STA. 477+07.96.
11. PHASE 4D
 - 11.1. THE CONTRACTOR SHALL SET UP EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
 - 11.2. INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 26.2.
 - 11.3. MILL AND OVERLAY THE SOUTHBOUND CENTER LANE OF BEAUREGARD STEET FROM STA. 477+45.86 TO STA. 479+03.06.
12. PHASE 4E
 - 12.1. THE CONTRACTOR SHALL SET UP EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
 - 12.2. INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 17.2.
 - 12.3. MILL AND OVERLAY THE INTERSECTION OF BEAUREGARD STEET AND BRADDOCK ROAD FROM STA. 477+09.13 TO STA. 477+43.98.

BEAUREGARD STREET AT KING STREET

1. PHASE 1
 - 1.1. THE CONTRACTOR SHALL SET UP EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
 - 1.2. INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 29.2.
 - 1.3. CONSTRUCT MEDIAN ON BEAUREGARD STREET FROM STA. 486+60.38 TO STA. 487+90.39.
2. PHASE 2
 - 2.1. THE CONTRACTOR SHALL SET UP EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
 - 2.2. INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 16.2.
 - 2.3. CONSTRUCT SIDEWALK, PLATFORM, CURB RAMPS, CURB AND GUTTER, CONCRETE BUS PAD, AND DRIVEWAY ENTRANCES, AND MILL AND OVERLAY THE OUTSIDE LANES OF SOUTHBOUND BEAUREGARD STREET FROM STA. 485+60.38 TO STA. 491+22.20.
3. PHASE 3
 - 3.1. THE CONTRACTOR SHALL SET UP EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
 - 3.2. INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 27.2.
 - 3.3. MILL AND OVERLAY THE NORTHBOUND AND SOUTHBOUND INSIDE LANES OF BEAUREGARD STREET FROM STA. 485+60.38 TO STA. 491+29.24.

90% DESIGN PHASE



CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

REVISIONS	DESCRIPTION
DATE	BY

ALEXANDRIA PROJECT NO.:	110104122
DATE OF PLAN ISSUANCE:	N/A
CONSULTANT PROJECT ID.:	N/A
DESIGNED BY:	MAT. DATE: 4/5/24
DRAWN BY:	AJB. DATE: 4/5/24
CHECKED BY:	EJD. DATE: 4/5/24
APPROVED BY:	DATE:

SEQUENCE OF CONSTRUCTION

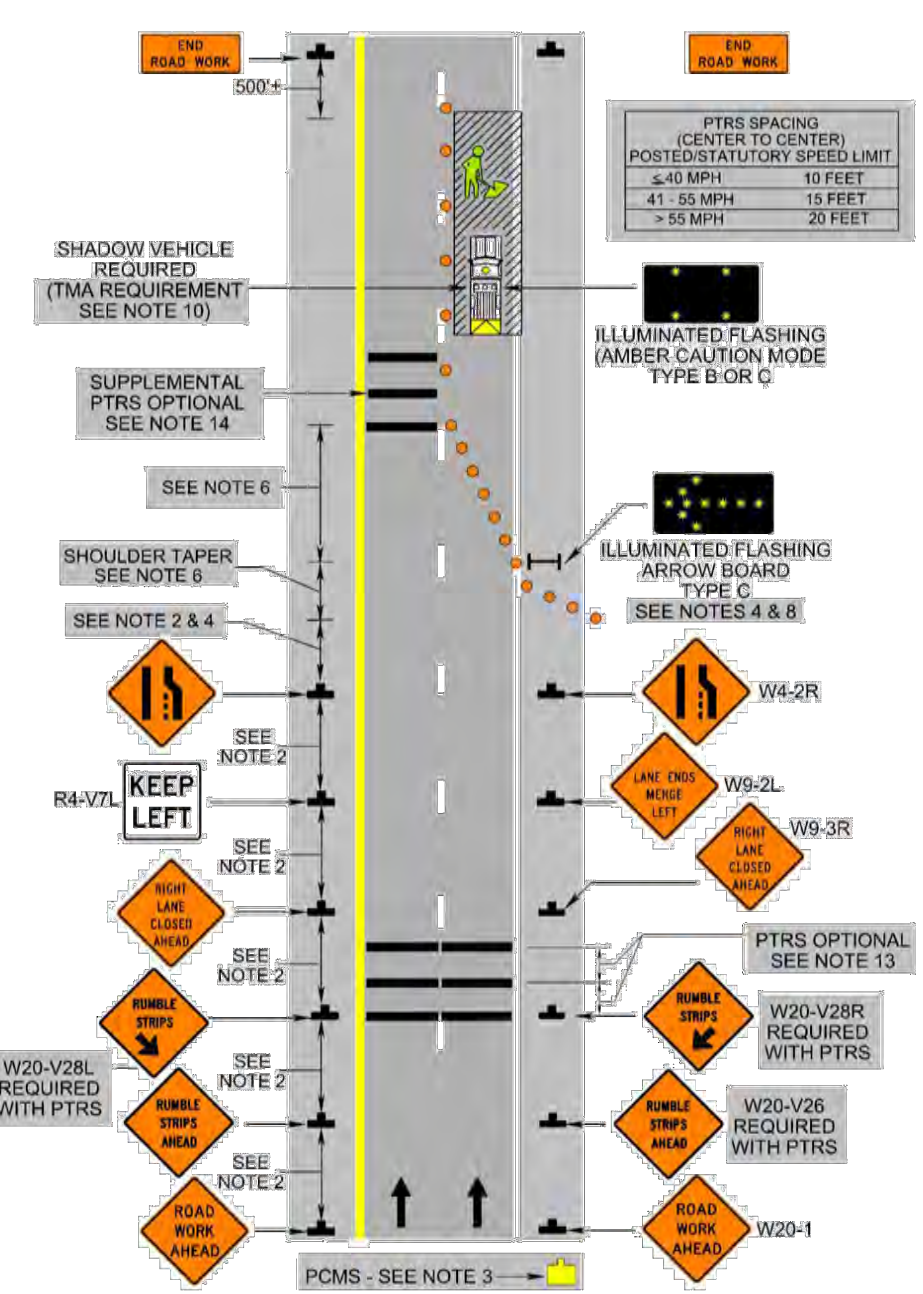
SHEET
C-1300C
SCALE N/A

Typical Traffic Control Outside Lane Closure Operation on a Four-Lane Roadway (Figure TTC-16.2)

NOTES

- Standard: 1. On divided highways having a median wider than 8', right and left sign assemblies shall be required. Guidance: 1. Sign spacing should be 1300'-1500' for Limited Access highways. For all other roadways, the sign spacing should be 500'-800' where the posted speed limit is greater than 45 mph, and 350'-500' where the posted speed limit is 45 mph or less. 2. When closing a lane, a PCMS should be used in advance of the first warning sign if all of the left side signs cannot be installed. 3. Care should be exercised when establishing the limits of the work zone to insure maximum possible sight distance in advance of the transition, based on the posted speed limit and at least equal to or greater than the values in Table 6H-3. For Limited Access highways a minimum of 1000' is desired. 4. All vehicles, equipment, workers, and their activities should be restricted to one side of the pavement. Standard: 6. Taper length (L) and channelizing device spacing shall be at the following: Table 6H-4. Channelizing device spacing shall be at the following: Table 6H-5. 8. An arrow board shall be used when a lane is closed. When more than one lane is closed, a separate arrow board shall be used for each closed lane (see Figure TTC-18). 9. The buffer space length shall be shown in Table 6H-3 on Page 6H-3 for the posted speed limit. 10. A shadow vehicle with either a Type B or C arrow board operating in the caution mode, or at least one high intensity amber rotating, flashing, or oscillating light shall be parked 80'-120' in advance of the first work crew. When the posted speed limit is 45 mph or greater, a truck-mounted attenuator shall be used. 11. Vehicle hazard warning signals shall not be used instead of the vehicle's high-intensity amber rotating, flashing, or oscillating lights but can be used to supplement the amber rotating, flashing, or oscillating lights. 12. When a side road intersects the highway within the TTC zone, additional TTC devices shall be placed as needed. Option: 13. PTRS and their supporting signs may be used, see Sections 6F-99 and 6G-25. Long-term transverse rumble strips may be used in long-term situations, see Section 6F-99 and TTC-20. 14. The supplemental PTRS may be eliminated. 1: Revision 1 - 4/1/2015 2: Revision 2 - 9/1/2019

Outside Lane Closure Operation on a Four-Lane Roadway (Figure TTC-16.2)



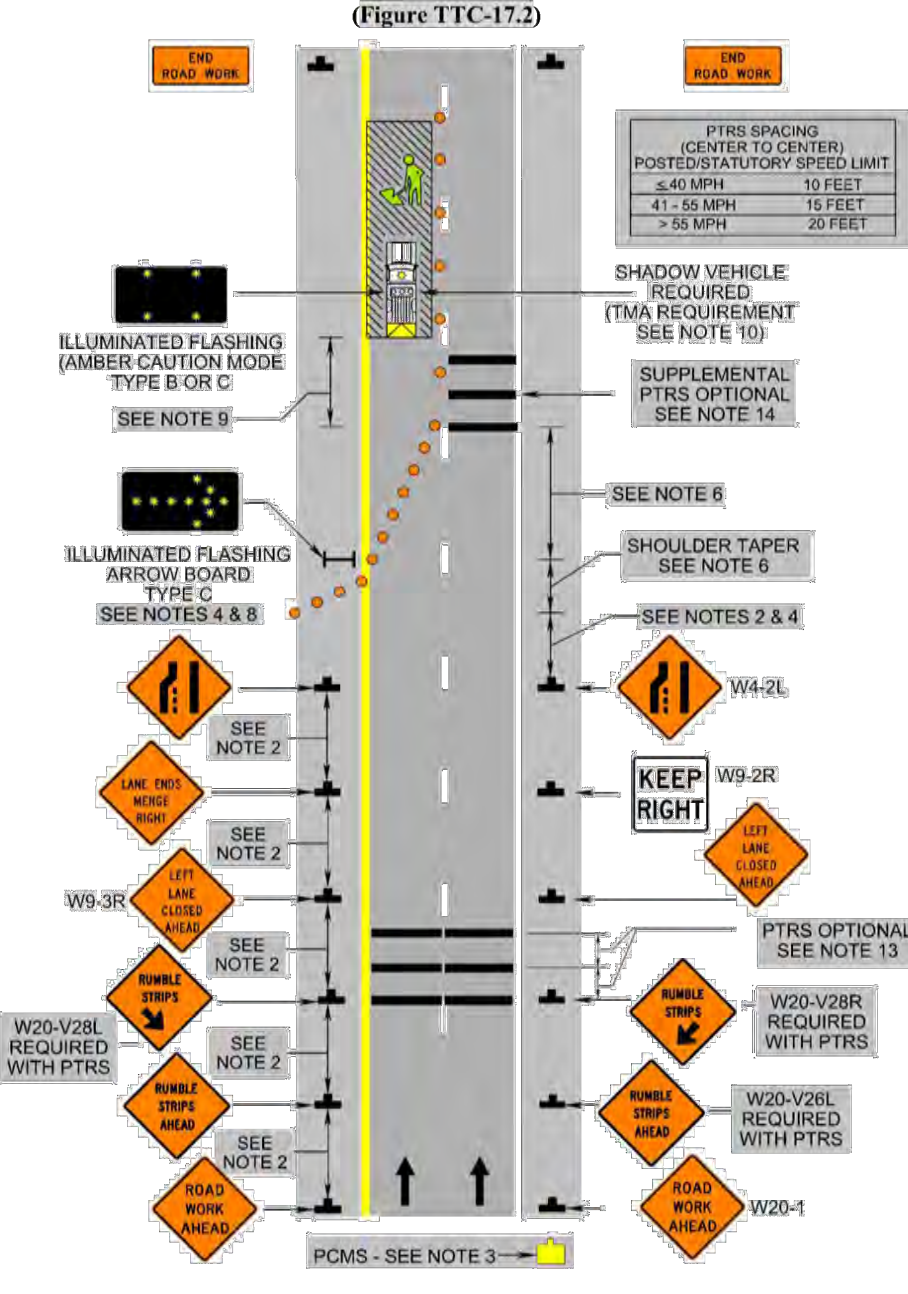
1: Revision 2 - 9/1/2019 3: Revision 2.1 - 11/1/2020

Typical Traffic Control Inside Lane Closure Operation on a Four-Lane Roadway (Figure TTC-17.2)

NOTES

- Standard: 1. On divided highways having a median wider than 8', right and left sign assemblies shall be required. Guidance: 1. Sign spacing should be 1300'-1500' for Limited Access highways. For all other roadways, the sign spacing should be 500'-800' where the posted speed limit is greater than 45 mph, and 350'-500' where the posted speed limit is 45 mph or less. 2. When closing a lane, a PCMS should be used in advance of the first warning sign if all of the left side signs cannot be installed. 3. Care should be exercised when establishing the limits of the work zone to insure maximum possible sight distance in advance of the transition, based on the posted speed limit and at least equal to or greater than the values in Table 6H-3. For Limited Access highways a minimum of 1000' is desired. 4. All vehicles, equipment, workers, and their activities should be restricted to one side of the pavement. Standard: 6. Taper length (L) and channelizing device spacing shall be at the following: Table 6H-4. Channelizing device spacing shall be at the following: Table 6H-5. 8. An arrow board shall be used when a lane is closed. When more than one lane is closed, a separate arrow board shall be used for each closed lane (see Figure TTC-18). 9. The buffer space length shall be shown in Table 6H-3 on Page 6H-3 for the posted speed limit. 10. A shadow vehicle with either a Type B or C arrow board operating in the caution mode, or at least one high intensity amber rotating, flashing, or oscillating light shall be parked 80'-120' in advance of the first work crew. When the posted speed limit is 45 mph or greater, a truck-mounted attenuator shall be used. 11. Vehicle hazard warning signals shall not be used instead of the vehicle's high-intensity amber rotating, flashing, or oscillating lights but can be used to supplement the amber rotating, flashing, or oscillating lights. 12. When a side road intersects the highway within the TTC zone, additional TTC devices shall be placed as needed. Option: 13. PTRS and their supporting signs may be used, see sections 6F-99 and 6G-25. Long-term transverse rumble strips may be used in long-term situations, see Section 6F-99 and TTC-20. 14. The supplemental PTRS may be eliminated. 1: Revision 1 - 4/1/2015

Inside Lane Closure Operation on a Four-Lane Roadway (Figure TTC-17.2)



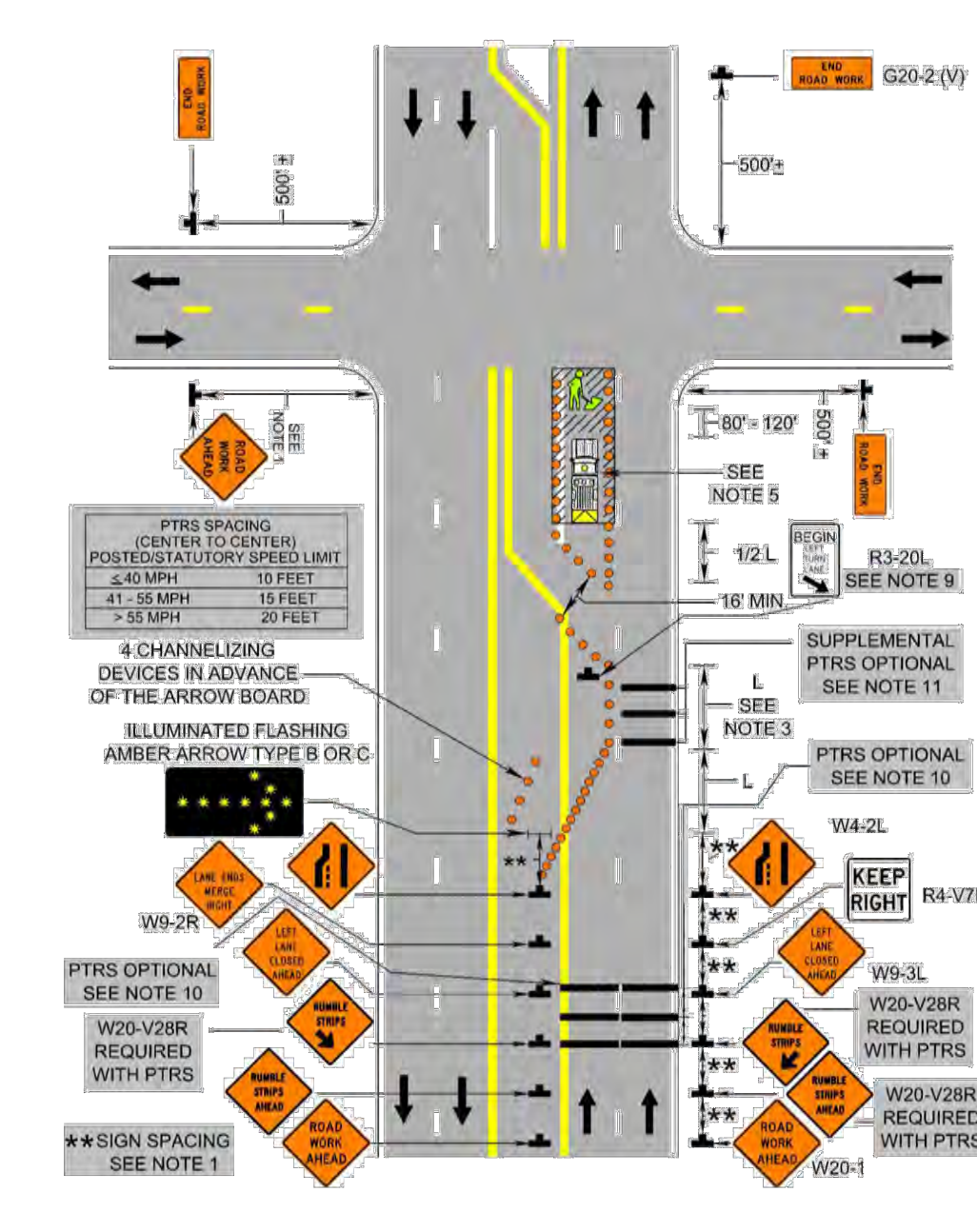
2: Revision 2 - 9/1/2019 3: Revision 2.1 - 11/1/2020

Typical Traffic Control Lane Closure Operation - Near Side of an Intersection (Figure TTC-26.2)

NOTES

- Guidance: 1. Sign spacing distance should be 350'-500' where the posted speed limit is 45 mph or less, 500'-800' where the posted speed limit is greater than 45 mph. Standard: 2. On divided highways having a median wider than 8', right and left sign assemblies shall be required. 3. Taper length (L) shall be at the following: Table 6H-6. Channelizing device spacing shall be at the following: Table 6H-7. 4. If the posted speed limit is 45 mph or greater, the shadow vehicle shall have a truck-mounted attenuator. 5. For emergency situations (any non-planned operation) of 30 minutes or less duration, two rotating amber lights or two high intensity amber flashing or oscillating lights mounted on the vehicle and visible for 360° shall be required in addition to the channelizing devices shown around the vehicle. Also, vehicle hazard warning signals shall be used. Guidance: 6. If the work space extends across a crosswalk, the crosswalk should be closed using the information and devices shown in Figure TTC-36. Standard: 9. If the left turn lane is closed a NO LEFT TURN (Symbol) (R3-2) shall be used. Option: 10. PTRS may be used as shown in Figure TTC-17 and in accordance with Section 6F-99. 11. The supplemental PTRS may be eliminated. 1: Revision 1 - 4/1/2015 2: Revision 2 - 9/1/2019

Lane Closure Operation - Near Side of an Intersection (Figure TTC-26.2)



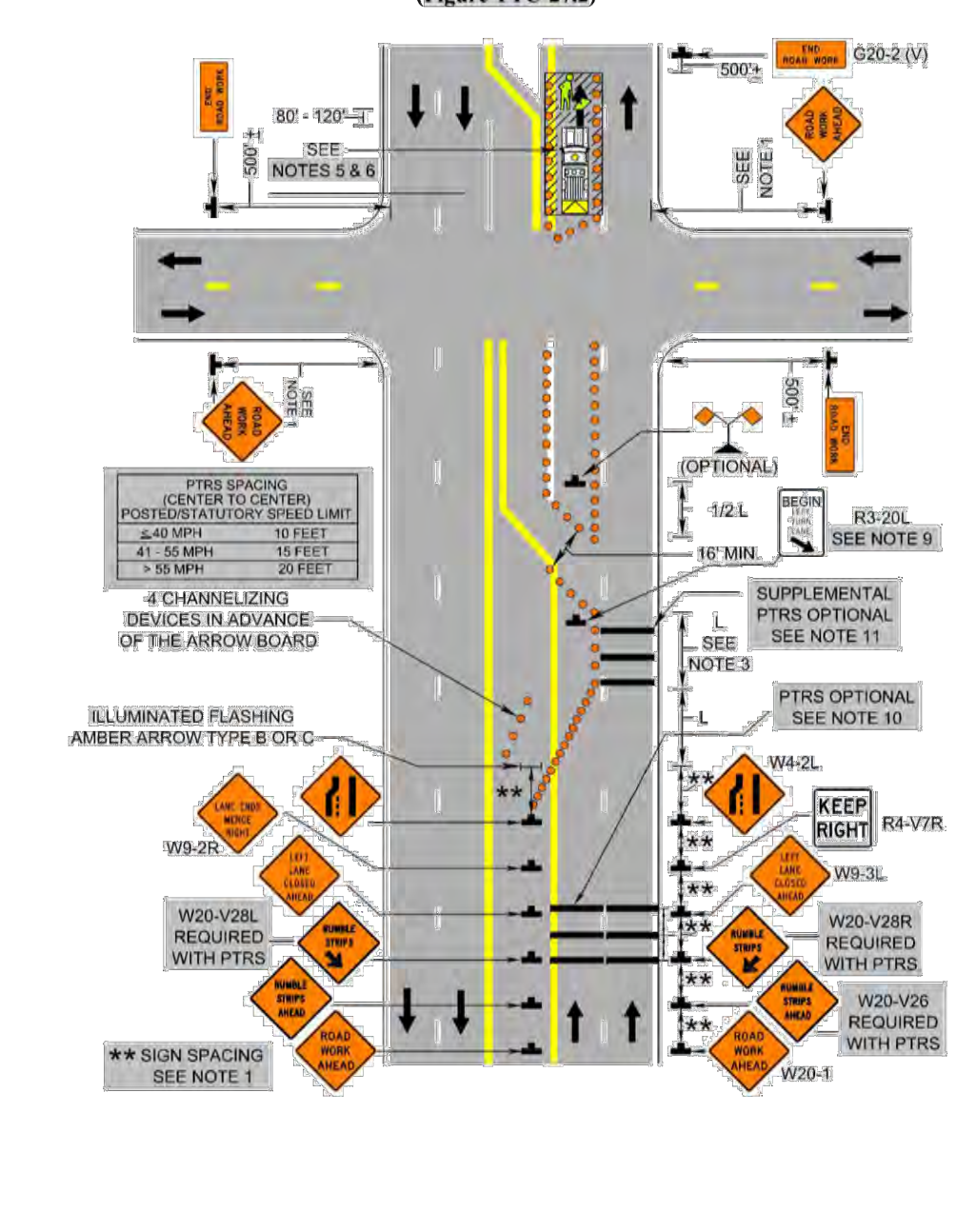
1: Revision 1 - 4/1/2015 2: Revision 2 - 9/1/2019

Typical Traffic Control Lane Closure Operation - Far Side of an Intersection (Figure TTC-27.2)

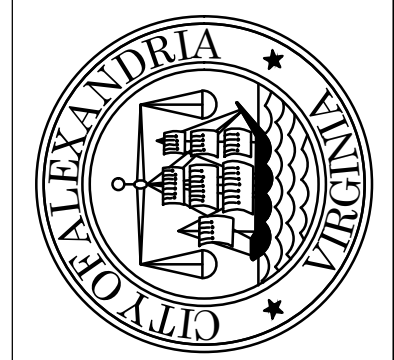
NOTES

- Guidance: 1. Sign spacing distance should be 350'-500' where the posted speed limit is 45 mph or less, 500'-800' where the posted speed limit is greater than 45 mph. Standard: 2. On divided highways having a median wider than 8', right and left sign assemblies shall be required. 3. Taper length (L) shall be at the following: Table 6H-6. Channelizing device spacing shall be at the following: Table 6H-7. 4. If the posted speed limit is 45 mph or greater, the shadow vehicle shall have a truck-mounted attenuator. 5. For emergency situations (any non-planned operation) of 30 minutes or less duration, two rotating amber lights or high intensity amber flashing or oscillating lights mounted on the vehicle and visible for 360° shall be required in addition to the channelizing devices shown around the vehicle. Also, vehicle hazard warning signals shall be used. Guidance: 6. If the work space extends across a crosswalk, the crosswalk should be closed using the information and devices shown in Figure TTC-36. Standard: 9. If the left turn lane is closed a NO LEFT TURN (Symbol) (R3-2) shall be used. Option: 10. PTRS may be used as shown in Figure TTC-17 and in accordance with Section 6F-99. 11. The supplemental PTRS may be eliminated. 1: Revision 1 - 4/1/2015 2: Revision 2 - 9/1/2019

Lane Closure Operation - Far Side of an Intersection (Figure TTC-27.2)



1: Revision 1 - 4/1/2015 2: Revision 2 - 9/1/2019



CITY OF ALEXANDRIA, VIRGINIA DEPARTMENT OF PROJECT IMPLEMENTATION 301 KING STREET ALEXANDRIA, VIRGINIA 22313

Table with columns: REVISIONS, DATE, DESCRIPTION

ALEXANDRIA PROJECT NO.: 110104122 DATE OF PLAN ISSUANCE: N/A CONSULTANT PROJECT ID: N/A DESIGNED BY: MAT DATE: 4/5/24 DRAWN BY: AUB DATE: 4/5/24 CHECKED BY: EJD DATE: 4/5/24 APPROVED BY: DATE:

MAINTENANCE OF TRAFFIC - TEMPORARY TRAFFIC CONTROL DETAILS SHEET C-1300D SCALE NTS

Typical Traffic Control Lane Closure Operation in an Intersection (Figure TTC-28.2)

NOTES

Guidance:

- 1. The control of traffic through the intersection in order of preference should be: a. Obtain the services of law enforcement personnel. b. Detour the effective routes to other roads and streets as approved and directed by the District Traffic Engineer. c. Place a state certified flagger on each leg of the intersection controlling a single lane of traffic. Appropriate signing as shown should be used for law enforcement and flagging operations. For detour signs see Figure TTC-34. 2. Sign spacing distance should be 350'-500' where the posted speed limit is 45 mph or less, 500'-800' where the posted speed limit is greater than 45 mph. 3. To maintain efficient traffic flow in a flagging operation on a two-lane roadway the maximum time motorists should be stopped at a flagger station is 8 minutes for high volume roadways (average daily traffic of 500 or more vehicles per day) to a maximum of 12 minutes for low volume roadways (less than 500 vehicles per day). For additional information see Section 6E.07. Standard: 4. Channelizing device spacing shall be on 20' centers or less. 5. PTRS shall be used as noted in Section 6E.99.2.

Guidance:

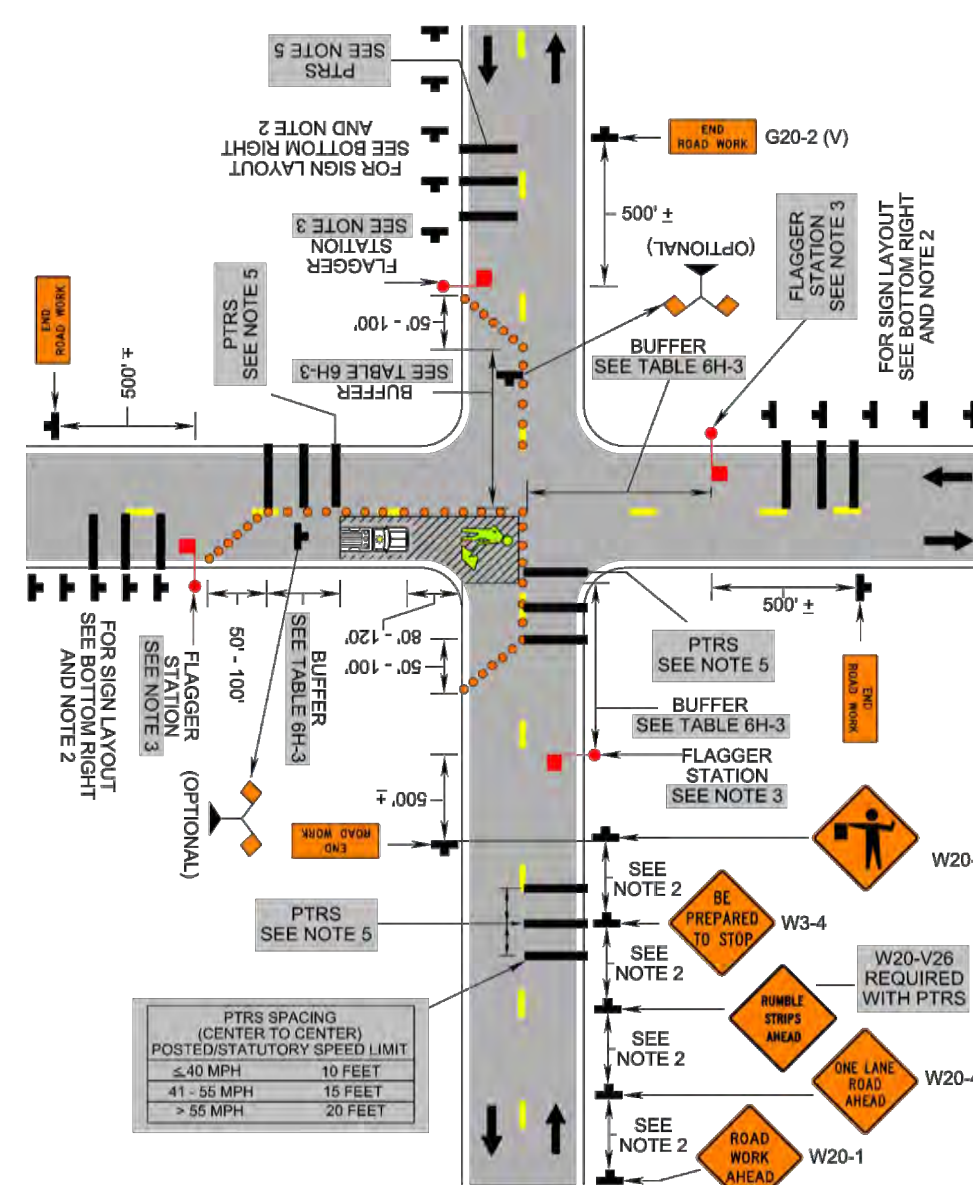
- 6. If room permits, a shadow vehicle with at least one rotating amber light or high intensity amber flashing or oscillating light should be parked 80'-120' in advance of the first work crew. Standard: 7. For emergency situations (any non-planned operation) of 30 minutes or less duration, two rotating amber lights or high intensity amber flashing or oscillating lights mounted on the vehicle and visible for 360° shall be required in addition to the channelizing devices shown around the vehicle. Also, vehicle hazard warning signals shall be used.

Guidance:

- 8. If the work space extends across a crosswalk, the crosswalk should be closed using the information and devices shown in Figure TTC-36. Support: 9. Turns can be prohibited as required by vehicular traffic conditions. Unless the streets are wide, it might be physically impossible to make certain turns, especially for large vehicles.

- 1: Revision 1 - 4/1/2015
2: Revision 2 - 9/1/2019

Lane Closure Operation in an Intersection (Figure TTC-28.2)



- 2: Revision 2 - 9/1/2019

Typical Traffic Control Turn Lane Closure Operation (Figure TTC-29.2)

NOTES

Guidance:

- 1. Sign spacing distance should be 350'-500' where the posted speed limit is 45 mph or less, 500'-800' where the posted speed limit is greater than 45 mph. Standard: 2. On divided highways having a median wider than 8', right and left sign assemblies shall be required. 3. To prevent accidental intrusion into the work area, channelizing device spacing shall not exceed 10' on centers or as directed by the Engineer. Option: 4. This layout may be used for either right or left turn lane closures. 5. For a high volume of turning movements, additional traffic control devices, such as signs (graphic NO LEFT TURN (R3-2) or LEFT LANE MUST TURN LEFT (R3-71)), channelizing devices and vehicles may be used. Standard: 6. Taper length (L) shall be at the following:

Table with columns: Speed Limit (mph), Lane Width (Feet), Remarks, Taper Length (L) (feet), Remarks. Includes rows for 25, 30, 35, 40, 45 mph and lane widths 9, 10, 11, 12 feet.

7. Length of the Longitudinal Buffer spacing shall be at the following:

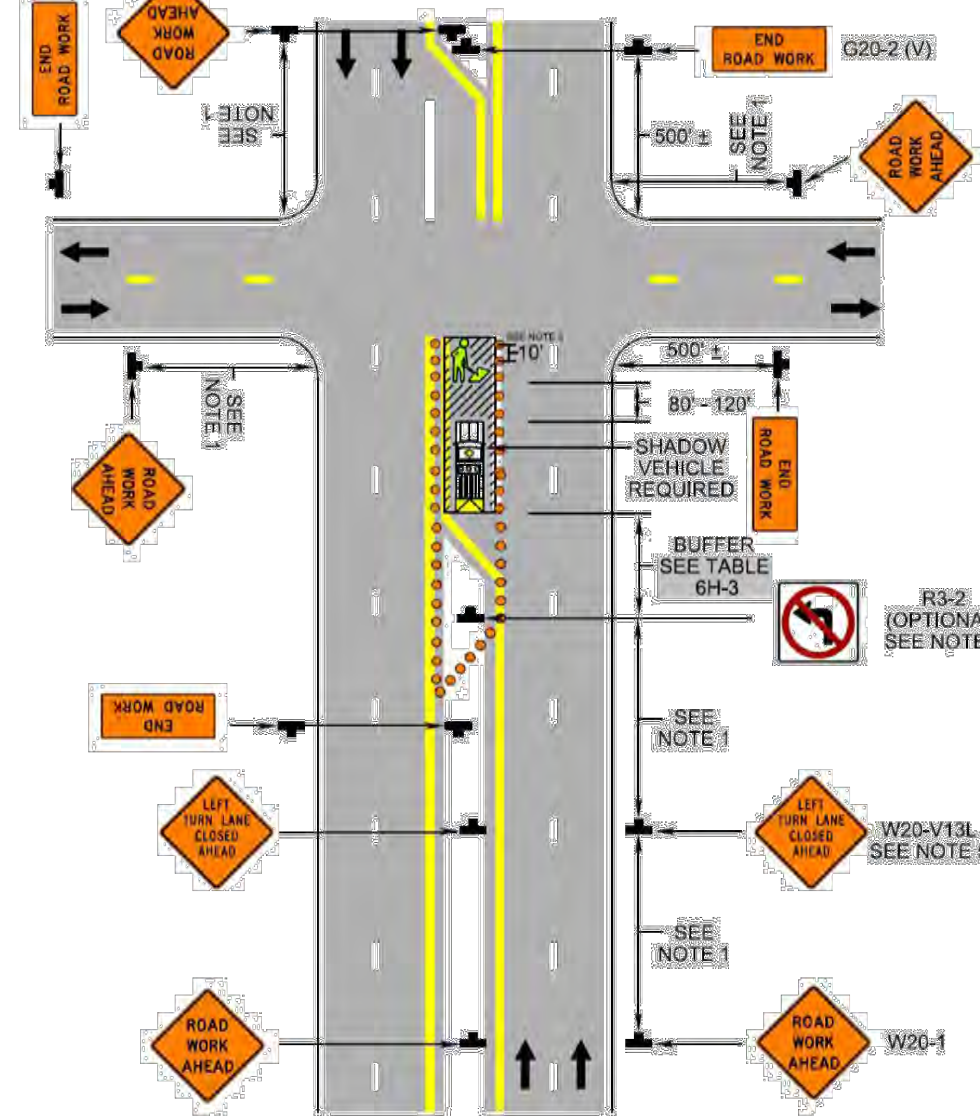
Table with columns: Posted Speed Limit (mph), Distance (Feet). Includes rows for 20, 25, 30, 35, 40, 45 mph.

Guidance:

- 8. If the work space extends across a crosswalk, the crosswalk should be closed using the information and devices shown in Figure TTC-36. Support: 9. Turns can be prohibited as required by vehicular traffic conditions. Unless the streets are wide, it might be physically impossible to make certain turns, especially for large vehicles.

- 1: Revision 1 - 4/1/2015
2: Revision 2 - 9/1/2019

Turn Lane Closure Operation (Figure TTC-29.2)



- 2: Revision 2 - 9/1/2019

Typical Traffic Control Sidewalk Closure and Bypass Sidewalk Operation (Figure TTC-35.1)

NOTES

Standard:

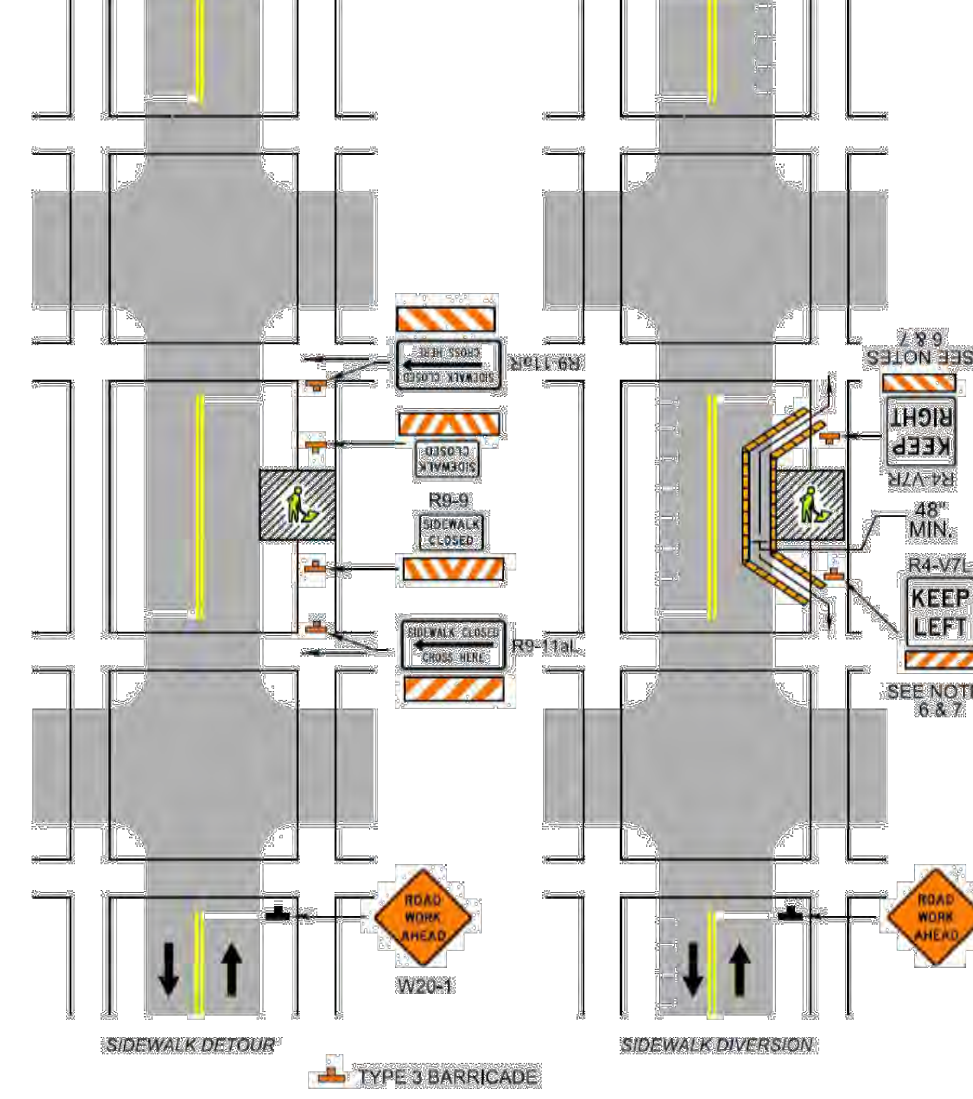
- 1. When crosswalks or other pedestrian facilities are closed or relocated, temporary facilities shall be detectable and shall include accessibility features consistent with the features present in the existing pedestrian facility. Guidance: 2. Where high speeds are anticipated, a temporary traffic barrier and, if necessary, a crash cushion should be used to separate the temporary sidewalks from vehicular traffic. 3. Audible information devices should be considered where midblock closings and changed crosswalk areas cause inadequate communication to be provided to pedestrians who have visual disabilities. 4. Temporary markings should be considered for operations exceeding three days in duration. Option: 5. Only the TTC devices related to pedestrians are shown. Other devices, such as lane closure signing or ROAD NARROWS (W5-1) signs, may be used to control vehicular traffic. 6. For nighttime closures, Type A Flashing warning lights may be used on barricades that support signs and close sidewalks. 7. Signs, such as KEEP RIGHT (R4-V7R) and KEEP LEFT (R4-V7L), may be placed along a temporary sidewalk to guide or direct pedestrians. Standard: 8. All sidewalk closures shall be closed with Type 3 Barricades. The SIDEWALK CLOSED (R9-9) sign and the SIDEWALK CROSS HERE (R9-11) sign shall be installed above the Type 3 barricade. The KEEP RIGHT sign can cover the top rail of the Type 3 Barricade.

Standard:

- 8. All sidewalk closures shall be closed with Type 3 Barricades. The SIDEWALK CLOSED (R9-9) sign and the SIDEWALK CROSS HERE (R9-11) sign shall be installed above the Type 3 barricade. The KEEP RIGHT sign can cover the top rail of the Type 3 Barricade.

- 2: Revision 2 - 9/1/2019

Sidewalk Closure and Bypass Sidewalk Operation (Figure TTC-35.1)



- 2: Revision 2 - 9/1/2019

Typical Traffic Control Crosswalk Closure and Pedestrian Detour Operation (Figure TTC-36.2)

NOTES

Standard:

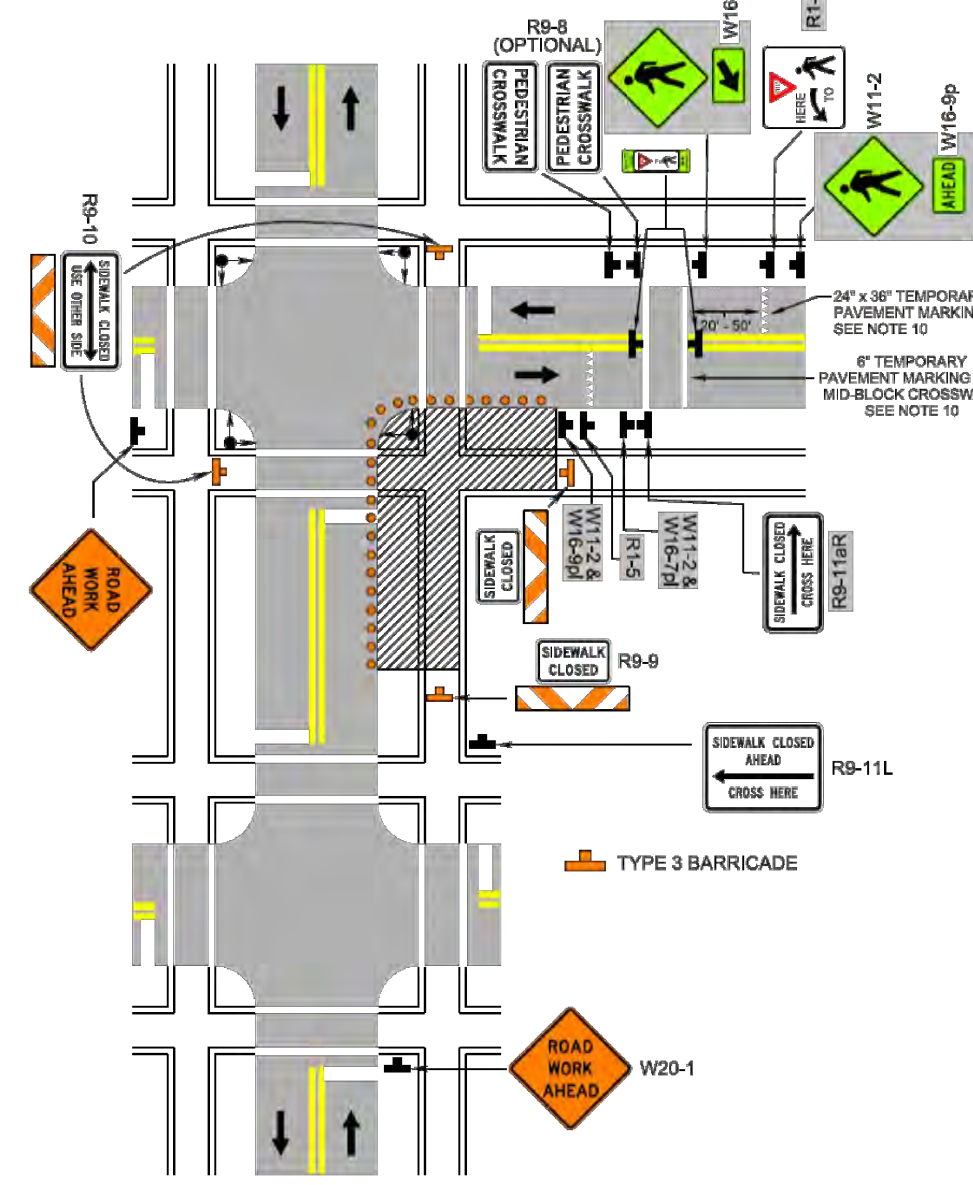
- 1. When crosswalks or other pedestrian facilities are closed or relocated, temporary facilities shall be detectable and shall include accessibility features consistent with the features present in the existing pedestrian facility. 2. Curb parking shall be prohibited for at least 50 feet in advance of the midblock crosswalk. Guidance: 3. Audible information devices should be considered where midblock closings and changed crosswalk areas cause inadequate communication to be provided to pedestrians who have visual disabilities. 4. Pedestrian traffic signal displays controlling closed crosswalks should be covered or deactivated. 5. Temporary markings should be considered for operations exceeding three days in duration. Option: 6. Only the TTC devices related to pedestrians are shown. Other devices, such as lane closure signing or ROAD NARROWS (W5-1) signs, may be used to control vehicular traffic. 7. For nighttime closures, Type A Flashing warning lights may be used on barricades supporting signs and closing sidewalks. Standard: 8. In order to maintain the systematic use of the fluorescent yellow-green background for school warning signs in a jurisdiction, the fluorescent yellow-green background for school warning signs shall be used in TTC zones. 9. All sidewalk closures shall be closed with Type 3 Barricades. The SIDEWALK CLOSED (R9-9) sign and the SIDEWALK CROSS HERE (R9-11) sign shall be installed above the Type 3 Barricade. The KEEP RIGHT sign can cover the top rail of the Type 3 Barricade. Support: 10. Refer to Sections 3B-16 through 3B-18 of the 2009 MUTCD and the Virginia Supplement to the MUTCD for crosswalk lines, yield lines and other related TTC devices that may be used to control vehicular traffic at midblock crosswalks. Standard: 11. The YIELD HERE TO PEDESTRIANS (R1-5) sign shall be placed at the Yield Line. 12. Fluorescent yellow-green PEDESTRIAN TRAFFIC (W11-2) symbol sign, AHEAD (W16-9p) plaque and ARROW (W16-7p) plaque shall be used to identify the work zone crosswalk.

Standard:

- 8. In order to maintain the systematic use of the fluorescent yellow-green background for school warning signs in a jurisdiction, the fluorescent yellow-green background for school warning signs shall be used in TTC zones. 9. All sidewalk closures shall be closed with Type 3 Barricades. The SIDEWALK CLOSED (R9-9) sign and the SIDEWALK CROSS HERE (R9-11) sign shall be installed above the Type 3 Barricade. The KEEP RIGHT sign can cover the top rail of the Type 3 Barricade. Support: 10. Refer to Sections 3B-16 through 3B-18 of the 2009 MUTCD and the Virginia Supplement to the MUTCD for crosswalk lines, yield lines and other related TTC devices that may be used to control vehicular traffic at midblock crosswalks. Standard: 11. The YIELD HERE TO PEDESTRIANS (R1-5) sign shall be placed at the Yield Line. 12. Fluorescent yellow-green PEDESTRIAN TRAFFIC (W11-2) symbol sign, AHEAD (W16-9p) plaque and ARROW (W16-7p) plaque shall be used to identify the work zone crosswalk.

- 1: Revision 1 - 4/1/2015
2: Revision 2 - 9/1/2019

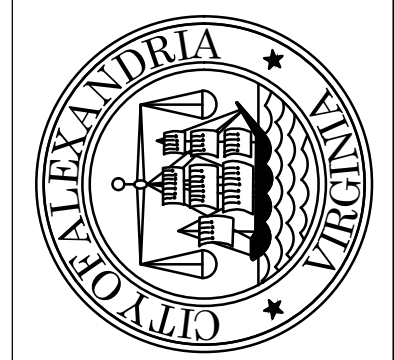
Crosswalk Closure and Pedestrian Detour Operation (Figure TTC-36.2)



- 1: Revision 1 - 4/1/2015
2: Revision 2 - 7/1/2018

Plotted By: Zegarrro, Santiago Sheet Set: West End Transitway - Phase 1 Layout: C-1313 MOT PHASE 1 - Phase 1 11:08:43am K:\NVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\MOT BEAU AND BRADDOCK PH1 to.dwg

90% DESIGN PHASE



CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

Table with columns: REVISIONS, DATE, DESCRIPTION

WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

ALEXANDRIA PROJECT NO.: 110104122
DATE OF PLAN ISSUANCE: N/A
CONSULTANT PROJECT ID: N/A
DESIGNED BY: MAT DATE: 4/5/24
DRAWN BY: AUB DATE: 4/5/24
CHECKED BY: EJD DATE: 4/5/24
APPROVED BY: DATE:

MAINTENANCE OF TRAFFIC - TEMPORARY TRAFFIC CONTROL DETAILS

SHEET C-1300E
SCALE NTS

Plotted By: Zagozgor, Santiago Sheet: Set: West End Transitway - Phase 1 Layout: C-1313 MOT PHASE 1 - September 20, 2023 11:08:43am K:\NVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\MOT_BEAU AND BRADDOCK PH1 to dwg

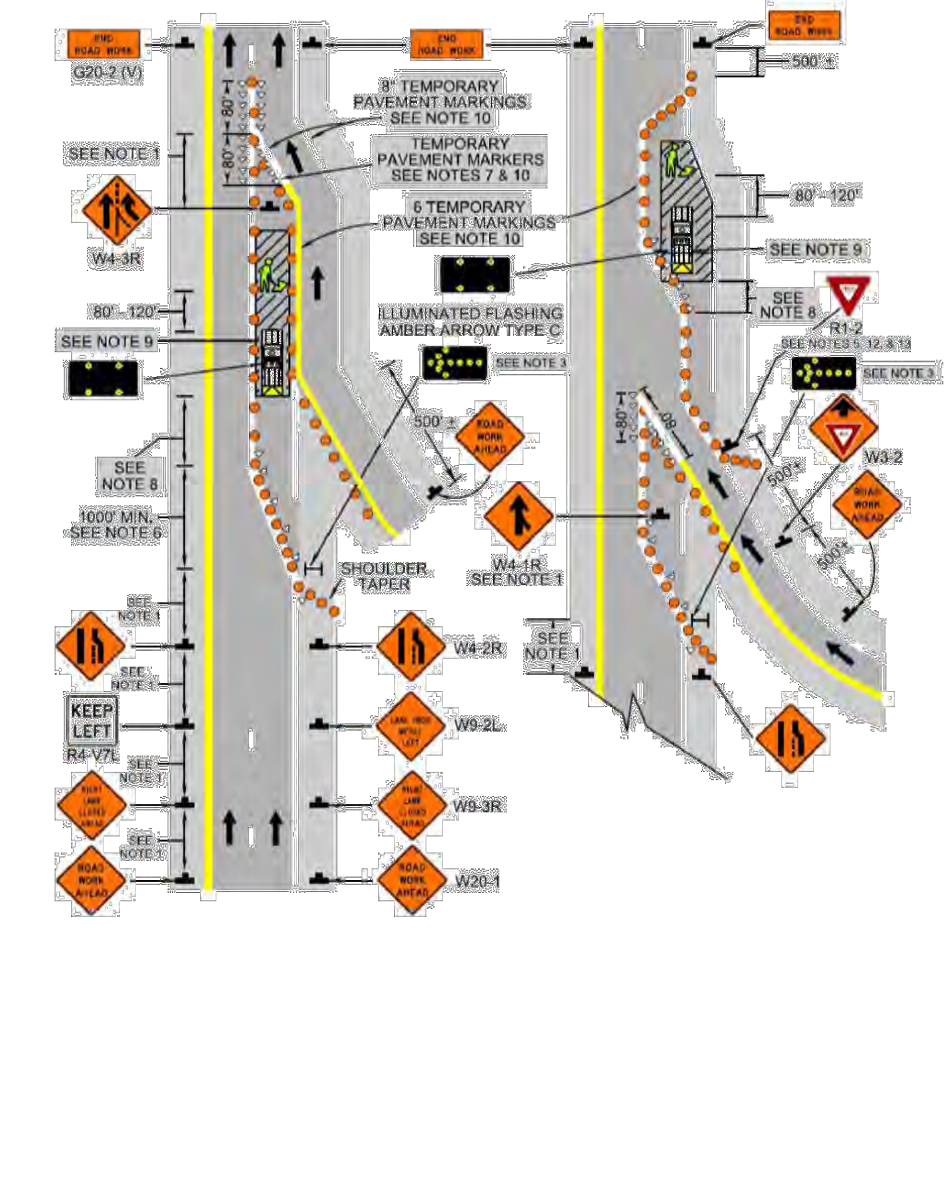
Typical Traffic Control
Work Operation in the Vicinity of an Entrance Ramp
(Figure TTC-39.2)

NOTES

- Guidance:
- Sign spacing distance should be 1300'-1500' for Limited Access highways, and on all other roadways 500'-800' where the posted speed limit is greater than 45 mph, and 350'-500' where the posted speed limit is 45 mph or less.
 - When closing a lane, a PCMS should be used in advance of the first warning sign if all of the left side signs cannot be installed.
 - Care should be exercised when establishing the limits of the work zone to insure maximum possible sight distance in advance of the transition, based on the posted speed limit and at least equal to or greater than the values in Table 6H-3.
 - An acceleration lane of sufficient length should be provided whenever possible as shown on the left diagram.
- Standard:
- For the information shown on the diagram on the right-hand side of the typical application, where inadequate acceleration distance exists for the temporary entrance, the YIELD (R1-2) sign shall be replaced with STOP (R-1-1) signs (one on each side of the approach). For better visibility, the STOP and YIELD signs shall be mounted a minimum of 5 feet from the pavement surface to the bottom of the sign.
 - For taper lengths and channelizing device spacing, Note 5 of TTC-37 shall be used. The minimum length of a lane closure taper on a Limited Access highway shall be 1000'.
 - For long-term stationary operations, pavement markers and 8-inch wide pavement markings, regardless of the pavement markings type, shall be installed to provide clear guidance to motorists exiting the highway. Pavement markers and pavement marking shall be installed in accordance to Section 1300 of the Road and Bridge Standards.
 - The buffer space length shall be as shown in Table 6H-3 on Page 6H1-5 for the posted speed limit.
 - A shadow vehicle with either a Type B or C arrow board operating in the caution mode, or equipped with at least one high intensity amber rotating, oscillating, or flashing light shall be parked 80'-120' in advance of the first work crew. When the posted speed limit is 45 mph or greater, a truck-mounted attenuator shall be used.
 - For long-term stationary operations, pavement markers and 8-inch wide pavement markings, regardless of the pavement markings type, shall be installed to provide clear guidance to motorists exiting the highway. Pavement markers and pavement marking shall be installed in accordance to Section 1300 of the Road and Bridge Standards.
 - Where the acceleration distance is significantly reduced, a NO MERGE AREA (W4-50) supplemental plaque shall be placed below the Yield Ahead (W3-2) sign.
- Guidance:
- When used, the YIELD or STOP sign should be located so that ramp vehicular traffic has adequate sight distance of oncoming mainline vehicular traffic to select an acceptable gap in the mainline vehicular traffic flow, but should not be located so far forward that motorists will be encouraged to stop in the path of the mainline traffic. Also, a longer acceleration lane should be provided beyond the sign to allow the gap size needed. If insufficient gaps are available, consideration should be given to closing the ramp.
 - Where STOP signs are used, a temporary stop line should be placed across the ramp at the desired stop location.
 - The mainline merging taper with the arrow board at its starting point should be located sufficiently in advance so that the arrow board does not confuse the drivers on the entrance ramp, and so that the mainline merging vehicular traffic from the lane closure has the opportunity to stabilize before encountering the vehicular traffic merging from the ramp.
 - If the ramp curves sharply to the right, warning signs with advisory speeds located in advance of the entrance terminal should be placed in pairs (one on each side of the ramp).
- Option:
- A Type B high-intensity flashing warning light with a red lens may be placed above the STOP sign.

- 1: Revision 1 - 4/1/2015
2: Revision 2 - 9/1/2019
3: Revision 2.1 - 11/1/2020

Work Operation in the Vicinity of an Entrance Ramp
(Figure TTC-39.2)



- 2: Revision 2 - 9/1/2019

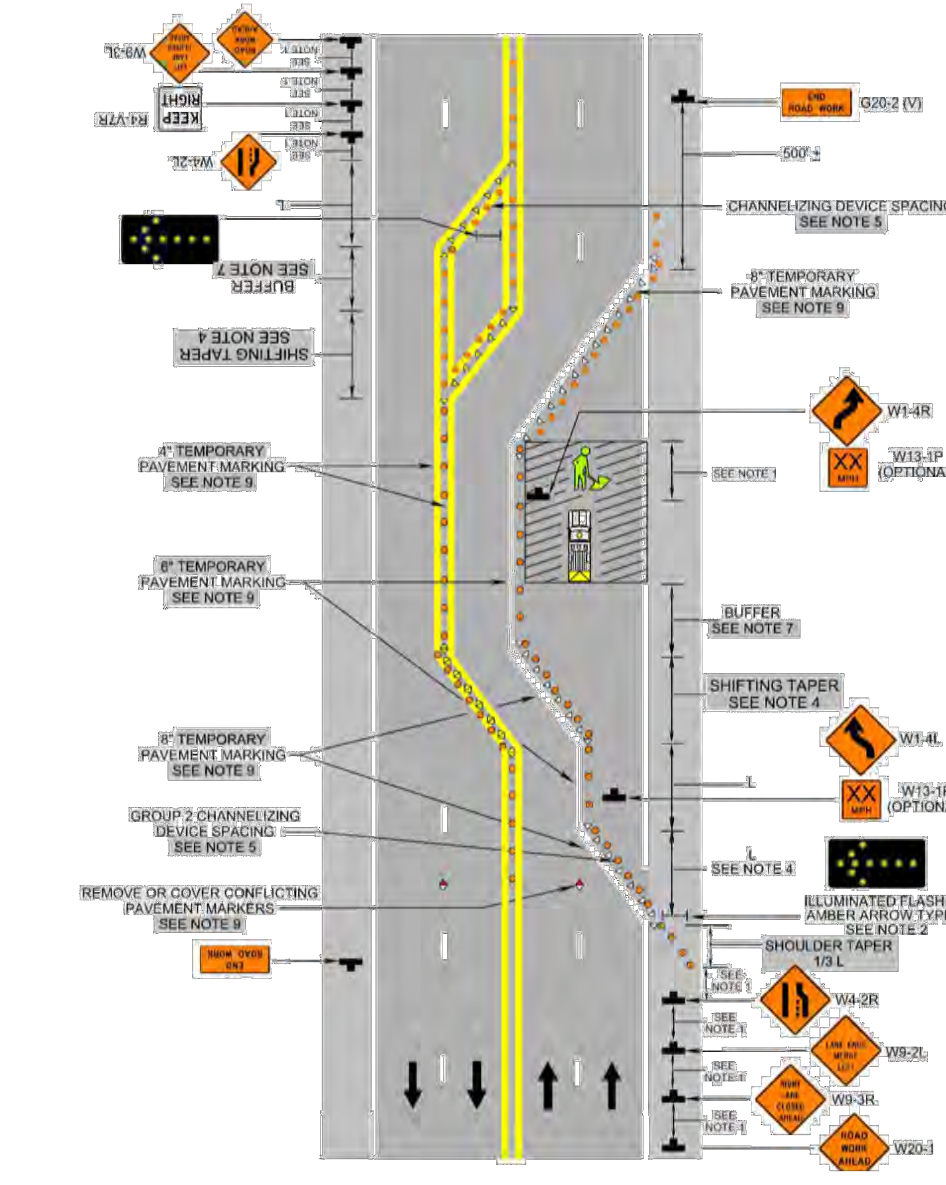
Typical Traffic Control
Half Road Closure Operation on a Multi-Lane Roadway
(Figure TTC-41.2)

NOTES

- Guidance:
- Sign spacing distance should be 1300'-1500' for Limited Access highways, and on all other roadways 500'-800' where the posted speed limit is greater than 45 mph, and 350'-500' where the posted speed limit is 45 mph or less.
 - Care should be exercised when establishing the limits of the work zone to insure maximum possible sight distance in advance of the transition, based on the posted speed limit and at least equal to or greater than the values in Table 6H-3. For Limited Access highways a minimum of 1000' is desired.
- Standard:
- On divided highways having a median wider than 8', right and left sign assemblies shall be required.
 - Taper length (L) shall be at the following:
- | Speed Limit (mph) | Lane Width (Feet) | | | | Remarks |
|-------------------|-------------------|-----|-----|-----|---------|
| | 9 | 10 | 11 | 12 | |
| 25 | 95 | 105 | 115 | 125 | L=SWWG |
| 30 | 135 | 150 | 165 | 180 | L=SWWG |
| 35 | 180 | 205 | 225 | 245 | L=SWWG |
| 40 | 240 | 270 | 295 | 320 | L=SWWG |
| 45 | 405 | 450 | 495 | 540 | L=SW |
| 50 | 450 | 500 | 550 | 600 | L=SW |
| 55 | 495 | 550 | 605 | 660 | L=SW |
| 60 | 540 | 600 | 660 | 720 | L=SW |
| 65 | 585 | 650 | 715 | 780 | L=SW |
| 70 | 630 | 700 | 770 | 840 | L=SW |
- Shoulder Taper = 1/2 L Minimum
- Channelizing device spacing shall be at the following:
- | Location Spacing | Speed Limit (mph) | Location Spacing | Speed Limit (mph) | Location Spacing | Speed Limit (mph) |
|------------------|-------------------|------------------|---------------------|------------------|-------------------|
| Transition | 20 | 40 | Traveway | 40 | 80 |
| | 0-35 | 36+ | | 0-35 | 36+ |
| | 40 | 80 | Construction Access | 80 | 120 |
- On roadways with paved shoulders having a width of 8 feet or more, channelizing devices shall be used to close the shoulder in advance of the merging taper to direct vehicular traffic to remain within the traveled way.
- The buffer space length shall be as shown in Table 6H-3 on Page 6H1-5 for the posted speed limit.
- A shadow vehicle with either a Type B or C arrow board operating in the caution mode, or at least one high intensity amber rotating, oscillating, or flashing light shall be parked 80'-120' in advance of the first work crew. When the posted speed limit is 45 mph or greater, a truck-mounted attenuator shall be used.
- Existing conflicting pavement markings and markers shall be removed and temporary pavement markings and markers shall be installed per Figure TTC-60.
- Option:
- For short-term stationary work (less than 3 days duration), lanes may be delineated by channelizing devices or removable pavement markings instead of temporary pavement markings.
 - Temporary pavement markings, on a 40' center to center spacing, may be added to the tangent section between lane shifts as directed by the engineer.
 - PTRS may be used on undivided roadways, see section 6F-99 for proper spacing of PTRS and Figures TTC-16 and TTC-17. Long-term transverse rumble strips may be used in long-term situations, see Section 6E-99 and TTC-20.

- 1: Revision 1 - 4/1/2015; 2: Revision 2 - 9/1/2019

Half Road Closure Operation on a Multi-Lane Roadway
(Figure TTC-41.2)



- 2: Revision 2 - 9/1/2019
3: Revision 2.1 - 11/1/2020

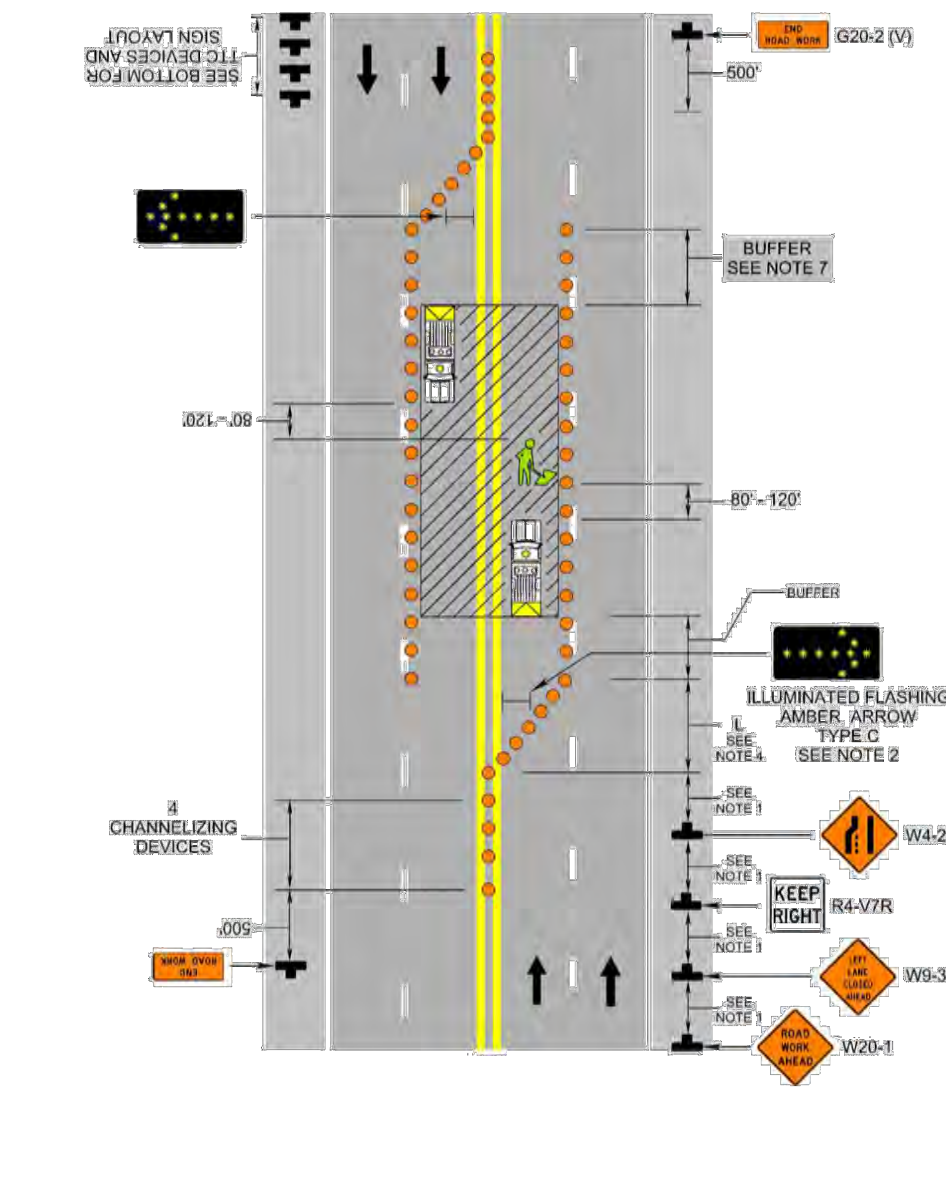
Typical Traffic Control
Interior Lane Closure Operation on a Multi-Lane Roadway
(Figure TTC-42.2)

NOTES

- Guidance:
- Sign spacing distance should be 1300'-1500' for Limited Access highways, and on all other roadways 500'-800' where the posted speed limit is greater than 45 mph, and 350'-500' where the posted speed limit is 45 mph or less.
 - Care should be exercised when establishing the limits of the work zone to insure maximum possible sight distance in advance of the transition, based on the posted speed limit and at least equal to or greater than the values in Table 6H-3. For Limited Access highways a minimum of 1000' is desired.
- Standard:
- On divided highways having a median wider than 8', right and left sign assemblies shall be required.
 - Taper length (L) shall be at the following:
- | Speed Limit (mph) | Lane Width (Feet) | | | | Remarks |
|-------------------|-------------------|-----|-----|-----|---------|
| | 9 | 10 | 11 | 12 | |
| 25 | 95 | 105 | 115 | 125 | L=SWWG |
| 30 | 135 | 150 | 165 | 180 | L=SWWG |
| 35 | 180 | 205 | 225 | 245 | L=SWWG |
| 40 | 240 | 270 | 295 | 320 | L=SWWG |
| 45 | 405 | 450 | 495 | 540 | L=SW |
| 50 | 450 | 500 | 550 | 600 | L=SW |
| 55 | 495 | 550 | 605 | 660 | L=SW |
| 60 | 540 | 600 | 660 | 720 | L=SW |
| 65 | 585 | 650 | 715 | 780 | L=SW |
| 70 | 630 | 700 | 770 | 840 | L=SW |
- Shoulder Taper = 1/2 L Minimum
- Channelizing device spacing shall be at the following:
- | Location Spacing | Speed Limit (mph) | Location Spacing | Speed Limit (mph) | Location Spacing | Speed Limit (mph) |
|------------------|-------------------|------------------|---------------------|------------------|-------------------|
| Transition | 20 | 40 | Traveway | 40 | 80 |
| | 0-35 | 36+ | | 0-35 | 36+ |
| | 40 | 80 | Construction Access | 80 | 120 |
- On roadways with paved shoulders having a width of 8 feet or more, channelizing devices shall be used to close the shoulder in advance of the merging taper to direct vehicular traffic to remain within the traveled way.
- The buffer space length shall be as shown in Table 6H-3 on Page 6H1-5 for the posted speed limit.
- A shadow vehicle with either a Type B or C arrow board operating in the caution mode, or at least one high intensity amber rotating, oscillating, or flashing light shall be parked 80'-120' in advance of the first work crew. When the posted speed limit is 45 mph or greater, a truck-mounted attenuator shall be used.
- Existing conflicting pavement markings and markers shall be removed and temporary pavement markings and markers shall be installed per Figure TTC-60.
- Option:
- For short-term stationary work (less than 3 days duration), lanes may be delineated by channelizing devices or removable pavement markings instead of temporary pavement markings.
 - Temporary pavement markings, on a 40' center to center spacing, may be added to the tangent section between lane shifts as directed by the engineer.
 - PTRS may be used on undivided roadways, see section 6F-99 for proper spacing of PTRS and Figures TTC-16 and TTC-17. Long-term transverse rumble strips may be used in long-term situations, see Section 6E-99 and TTC-20.

- 1: Revision 1 - 4/1/2015
2: Revision 2 - 9/1/2019

Interior Lane Closure Operation on a Multi-Lane Roadway
(Figure TTC-42.2)



- 1: Revision 1 - 4/1/2015
2: Revision 2 - 9/1/2019

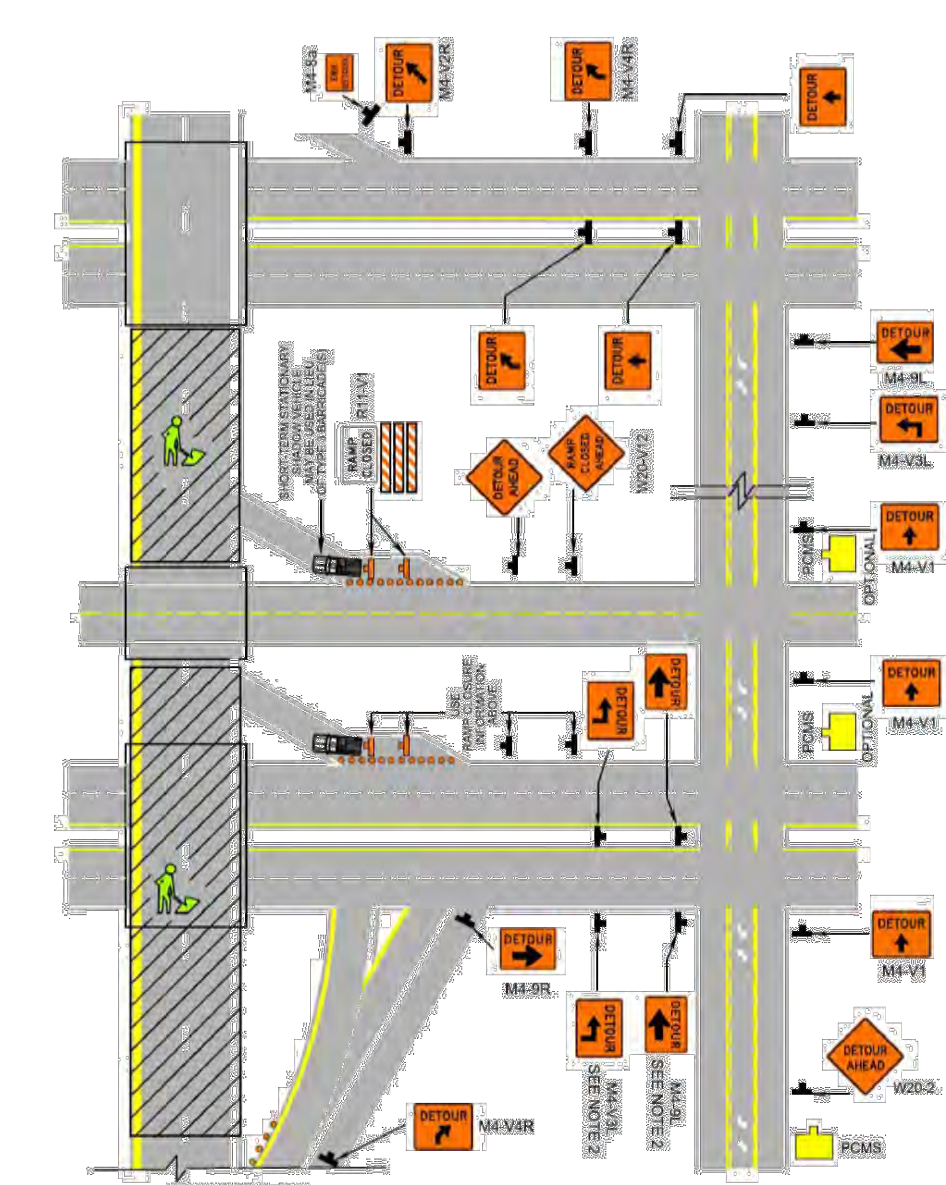
Typical Traffic Control
Limited Access Highway Closure Operation with a Short-Term Detour
(Figure TTC-46.2)

NOTES

- Guidance:
- Regulatory traffic control devices should be modified as needed for the duration of the detour.
 - Figure TTC-46 illustrates a general layout of detour signs. Additional detour signs should be erected at all connecting roadways.
 - Detour signs with an Advanced Turn Arrow (M4-V3) should have a spacing distance of 300' minimum in advance of the intersection. The Detour signs with the Point of Turn Arrow (M4-9) should be placed at the intersection.
 - When closing a ramp, the channelizing device spacing should be a maximum of 10'.
- Option:
- Other sign layouts may be substituted as directed by the District Traffic Engineer.
 - Flashing warning lights and/or flags may be used to call attention to the advance warning signs.
- Standard:
- On divided highways having a median wider than 8', right and left sign assemblies shall be required.
 - A minimum of four (4) drum channelizing devices shall be placed on the shoulder in advance of the PCMS in a taper for delineation (see Figure 6F-6).
- Support:
- Short-term stationary operation is daytime work that occupies a location for more than 1 hour within a single daylight period.
 - See Chapter 61 for additional information on incident management traffic control.

- 2: Revision 2 - 9/1/2019

Limited Access Highway Closure Operation with a Short-Term Detour
(Figure TTC-46.2)



- 1: Revision 1 - 4/1/2015
2: Revision 2 - 9/1/2019

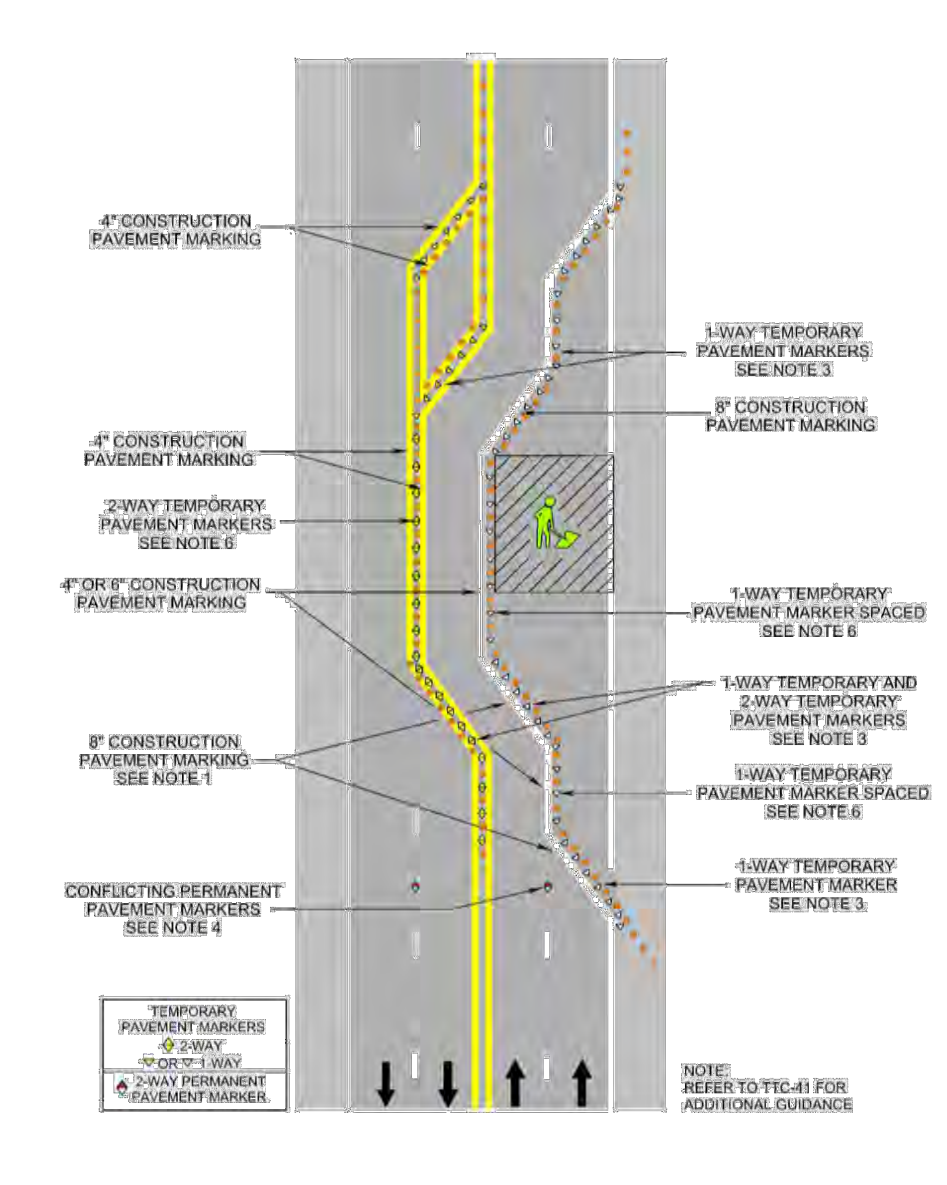
Typical Traffic Control
Temporary Pavement Marking and Marker Guidelines
(Figure TTC-60.0)

NOTES

- Standard:
- Unless otherwise noted, construction pavement marking lane lines in transitions shall be 8 inches in width.
 - For long-term stationary work (more than 3 days duration), existing conflicting pavement markings shall be removed and temporary markings shall be installed.
 - Temporary pavement markers, on 20 foot center to center spacing, shall be installed in transitions.
 - Conflicting permanent pavement markers shall be covered or removed.
 - Eradication of existing pavement markings shall be as shown in Figure TTC-55.
- Option:
- Temporary pavement markers, on a 40' center to center spacing, may be added between transitions/shifting tapers as directed by the engineer.
 - For short-term stationary work (less than 3 days duration), lanes may be delineated by retroreflectORIZED channelizing devices or removable pavement marking instead of temporary pavement markings.

- 2: Revision 2 - 9/1/2019

Temporary Pavement Marking and Marker Guidelines
(Figure TTC-60.0)



- 2: Revision 2 - 9/1/2019



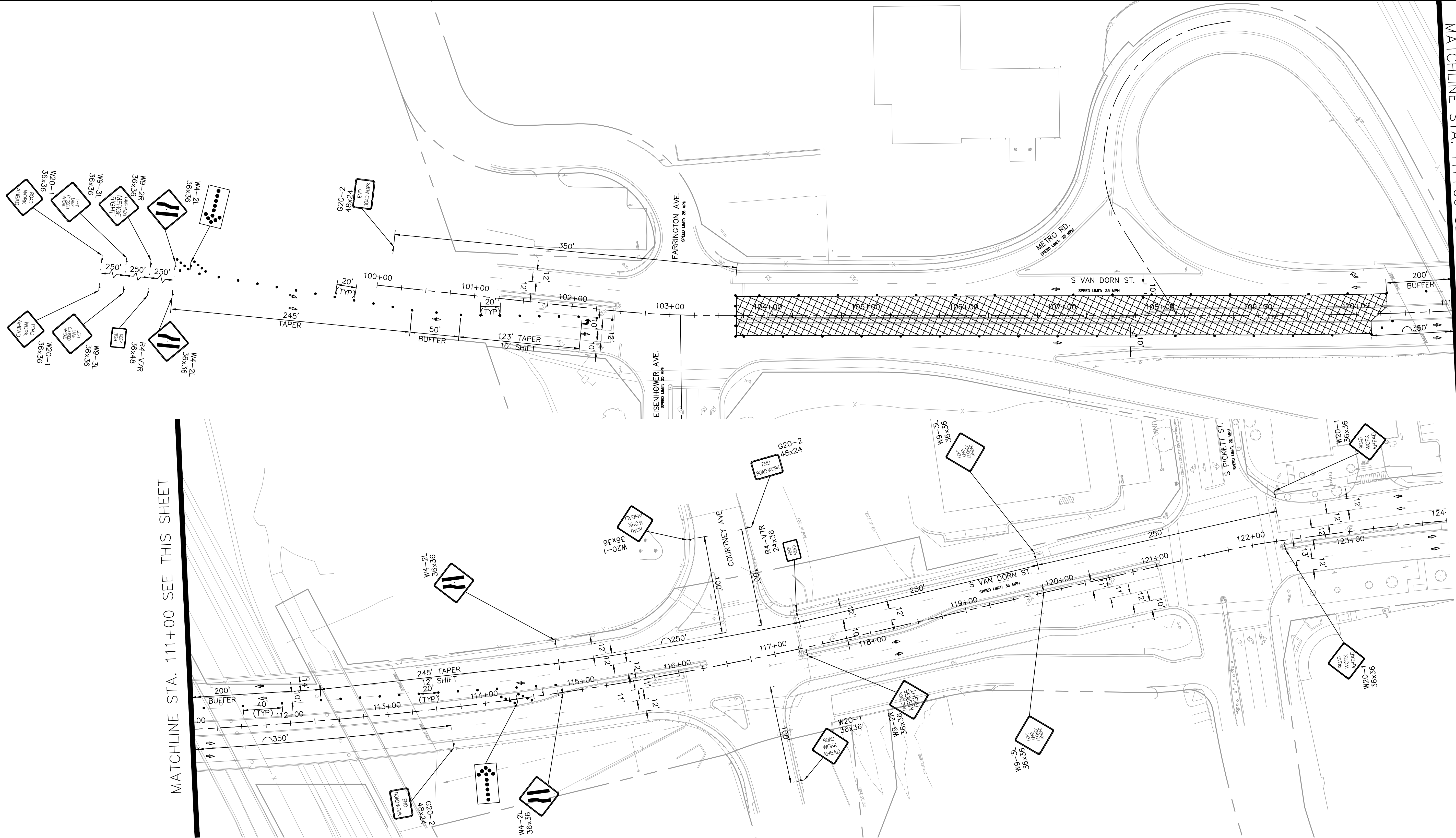
CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

REVISIONS	DESCRIPTION
DATE	

ALEXANDRIA PROJECT NO.:	110104122
DATE OF PLAN ISSUANCE:	N/A
CONSULTANT PROJECT ID.:	N/A
DESIGNED BY:	MAT DATE: 4/5/24
DRAWN BY:	AJB DATE: 4/5/24
CHECKED BY:	EJD DATE: 4/5/24
APPROVED BY:	DATE:

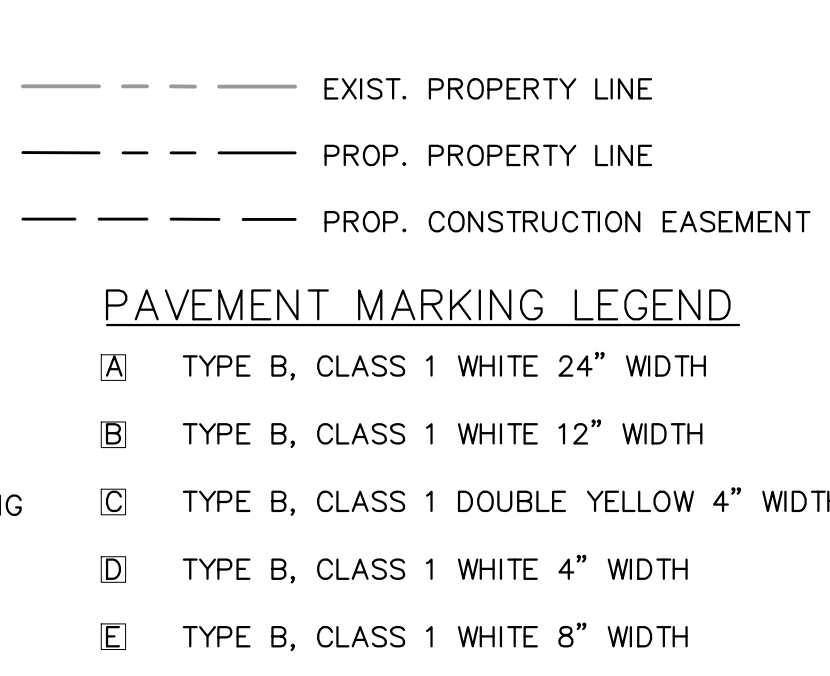
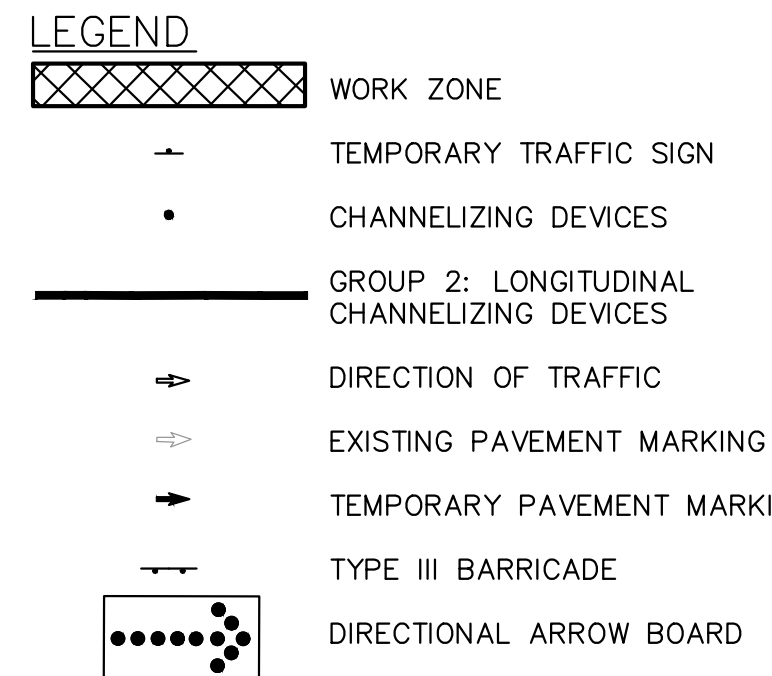
WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS
MAINTENANCE OF TRAFFIC -
TEMPORARY TRAFFIC CONTROL
DETAILS

Plotted By: Waring, Megan Sheet Set: West End Transitway - Phase 1 Layout: C-1301 MOT PHASE 1 July 11, 2024 01:27:47pm K:\NVA_Transit\110104122_West_End_Transitway_Design\CADD\PlanSheets\MOT_VAN_DORN_AT_METRO_RD_Ph_1.dwg



MATCHLINE STA. 111+00 SEE THIS SHEET

MATCHLINE STA. 111+00 SEE THIS SHEET

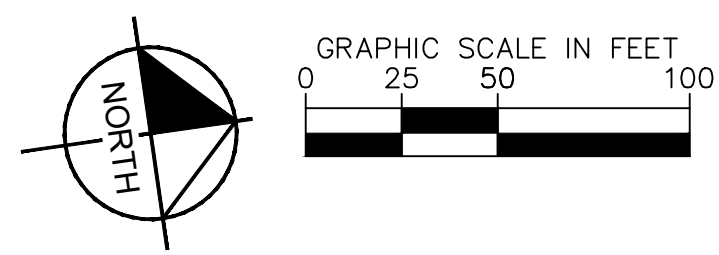


PROPOSED IMPROVEMENTS

- MEDIAN FROM STA. 103+67.98 TO STA. 110+31.60
- MILL & OVERLAY FROM STA. 103+67.98 TO STA. 110+31.60

SEQUENCE OF CONSTRUCTION

- PHASE 1
 - THE CONTRACTOR SHALL SET UP PHASE 1 EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
 - INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 17.2 AND 39.2.
 - CONSTRUCT THE MEDIAN CUT THROUGH AND MILL AND OVERLAY THE INSIDE NORTHBOUND AND SOUTHBOUND LANES OF VAN DORN STREET FROM STA. 103+67.98 TO STA. 110+31.60.



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

MATCHLINE STA. 111+00 SEE THIS SHEET

CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

REVISIONS	DESCRIPTION

ALEXANDRIA PROJECT NO.: 110104122	DATE OF PLAN ISSUANCE: N/A
CONSULTANT PROJECT ID: N/A	DESIGNED BY: MAT DATE: 4/5/24
DRAWN BY: AUB DATE: 4/5/24	CHECKED BY: EJD DATE: 4/5/24
APPROVED BY: _____	DATE: _____

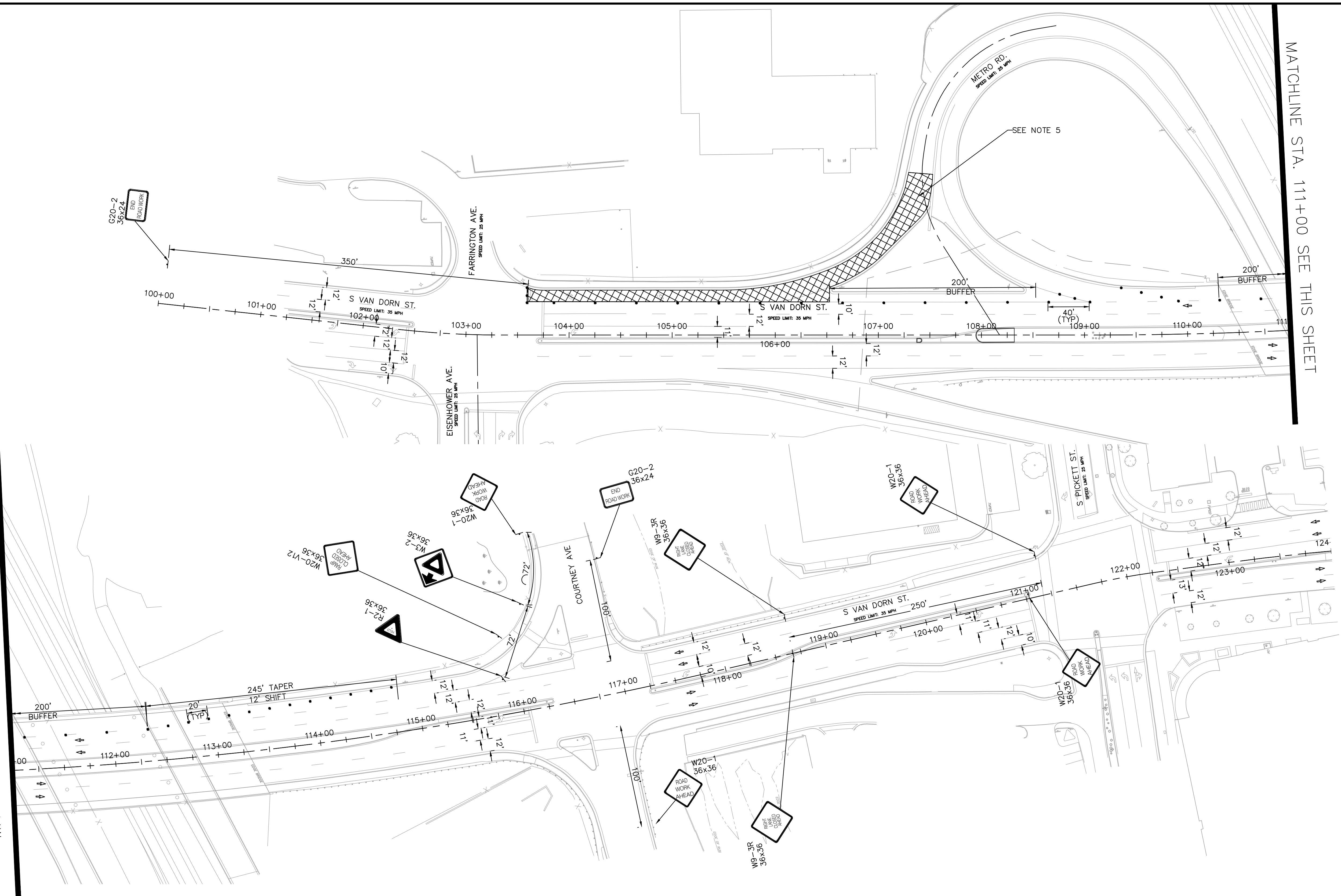
MAINTENANCE OF TRAFFIC
PHASE 1 - S VAN DORN ST
AT S METRO RD

SHEET
 C-1301A
 SCALE 1" = 50'

Plotted By: Worring, Megan Sheet Set: West End Transitway - Phase 1 Layout: C-1301 MOT PHASE 2 July 11, 2024 01:28:14pm K:\NVA_Transit\110104122_West_End_Transitway_Design\CADD\PlanSheets\MOT VAN DORN AT METRO RD PH 2.dwg

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LEGEND

	WORK ZONE
	TEMPORARY TRAFFIC SIGN
	CHANNELIZING DEVICES
	GROUP 2: LONGITUDINAL CHANNELIZING DEVICES
	DIRECTION OF TRAFFIC
	EXISTING PAVEMENT MARKING
	TEMPORARY PAVEMENT MARKING
	TYPE III BARRICADE
	DIRECTIONAL ARROW BOARD

	EXIST. PROPERTY LINE
	PROP. PROPERTY LINE
	PROP. CONSTRUCTION EASEMENT

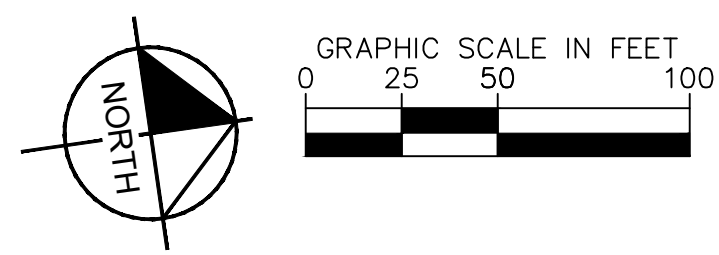
PAVEMENT MARKING LEGEND

	TYPE B, CLASS 1 WHITE 24" WIDTH
	TYPE B, CLASS 1 WHITE 12" WIDTH
	TYPE B, CLASS 1 DOUBLE YELLOW 4" WIDTH
	TYPE B, CLASS 1 WHITE 4" WIDTH
	TYPE B, CLASS 1 WHITE 8" WIDTH

- NOTES**
- CONTRACTOR TO MAINTAIN LOCAL ACCESS AT ALL TIMES
 - EXISTING PAVEMENT MARKINGS ARE APPROXIMATE AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO IMPLEMENTING ANY TRAFFIC CONTROL MEASURES
 - TEMPORARILY CLOSE BUS STOP. COORDINATE WITH DASH TO REDIRECT RIDERS OF ROUTE 31 TO THE STOP AT BEAUREGARD ST AND BRANCH AVE. COORDINATE WITH WMATA TO REDIRECT RIDERS TO OF ROUTE 7A TO THE STOP AT BEAUREGARD ST AND BRANCH AVE.
 - THE CONTRACTOR MUST KEEP LANE OPEN DURING THE PEAK HOURS.
 - SEE SHEET C-1301D FOR THE METRO RD DETOUR PLAN

- PROPOSED IMPROVEMENTS**
- RAMP FROM STA. 103+60.28 TO STA. 110+31.60
 - MILL & OVERLAY FROM STA. 103+60.28 TO STA. 110+31.60

- SEQUENCE OF CONSTRUCTION**
- PHASE 2
 - THE CONTRACTOR SHALL SET UP PHASE 1 EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
 - INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 16.2 AND 39.2.
 - CONSTRUCT THE RAMP WITH METRO ROAD AND MILL AND OVERLAY THE OUTSIDE SOUTHBOUND LANE OF VAN DORN STREET FROM STA. 103+60.28 TO STA. 110+31.60.



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

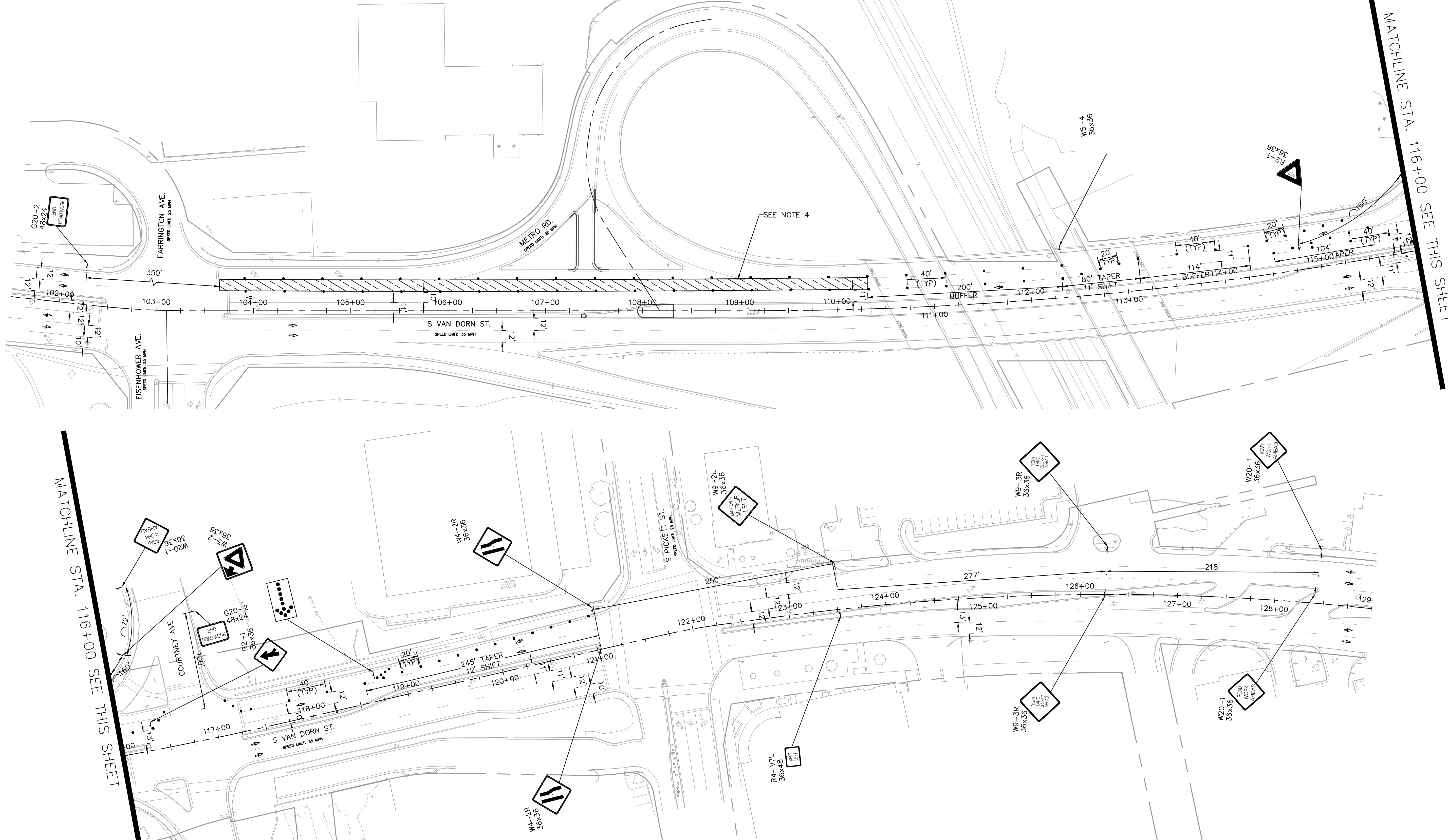
REVISIONS	DATE	DESCRIPTION

ALEXANDRIA PROJECT NO.: 110104122
DATE OF PLAN ISSUANCE: N/A
CONSULTANT PROJECT ID: N/A
DESIGNED BY: MAT DATE: 4/5/24
DRAWN BY: AUB DATE: 4/5/24
CHECKED BY: EJD DATE: 4/5/24
APPROVED BY: _____ DATE: _____

MAINTENANCE OF TRAFFIC
PHASE 2 - S VAN DORN ST
AT S METRO RD

SHEET
C-1301B
SCALE 1" = 50'

Plotted By: Phillips, Mark Sheet Set: West End Transitway - Phase 1 Layout: C-1301 MOT PHASE 3 July 12, 2024 07:06:08am K:\NVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\MOT VAN DORN AT METRO RD PH 3.dwg

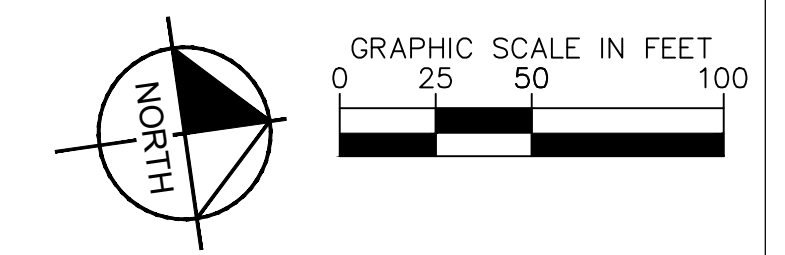


LEGEND		PAVEMENT MARKING LEGEND	
	WORK ZONE		TYPE B, CLASS 1 WHITE 24" WIDTH
	TEMPORARY TRAFFIC SIGN		TYPE B, CLASS 1 WHITE 12" WIDTH
	CHANNELIZING DEVICES		TYPE B, CLASS 1 DOUBLE YELLOW 4" WIDTH
	GROUP 2: LONGITUDINAL CHANNELIZING DEVICES		TYPE B, CLASS 1 WHITE 4" WIDTH
	DIRECTION OF TRAFFIC		TYPE B, CLASS 1 WHITE 8" WIDTH
	EXISTING PAVEMENT MARKING		
	TEMPORARY PAVEMENT MARKING		
	TYPE III BARRICADE		
	DIRECTIONAL ARROW BOARD		
	EXIST. PROPERTY LINE		
	PROP. PROPERTY LINE		
	PROP. CONSTRUCTION EASEMENT		

- NOTES**
- CONTRACTOR TO MAINTAIN LOCAL ACCESS AT ALL TIMES
 - EXISTING PAVEMENT MARKINGS ARE APPROXIMATE AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO IMPLEMENTING ANY TRAFFIC CONTROL MEASURES
 - TEMPORARILY CLOSE BUS STOP. COORDINATE WITH DASH TO REDIRECT RIDERS OF ROUTE 31 TO THE STOP AT BEAUREGARD ST AND BRANCH AVE. COORDINATE WITH WMATA TO REDIRECT RIDERS TO OF ROUTE 7A TO THE STOP AT BEAUREGARD ST AND BRANCH AVE.
 - THE CONTRACTOR MUST KEEP LANE OPEN DURING THE PEAK HOURS.

- PROPOSED IMPROVEMENTS**
- MILL & OVERLAY FROM STA. 103+65.33 TO STA. 110+31.60

- SEQUENCE OF CONSTRUCTION**
- PHASE 3
 - THE CONTRACTOR SHALL SET UP PHASE 1 EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
 - INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 16.2 AND 39.2.
 - MILL AND OVERLAY THE CENTER SOUTHBOUND LANE OF VAN DORN STREET FROM STA. 103+65.33 TO STA. 110+31.60.



MATCHLINE STA. 116+00 SEE THIS SHEET

MATCHLINE STA. 116+00 SEE THIS SHEET

WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

90% DESIGN PHASE

MAINTENANCE OF TRAFFIC
PHASE 3 - S VAN DORN ST
AT S METRO RD

REVISIONS	DATE	DESCRIPTION










ALEXANDRIA PROJECT NO.: 110104122
 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A

DESIGNED BY: J.M.T. DATE: 4/5/24
 DRAWN BY: J.M.T. DATE: 4/5/24
 CHECKED BY: J.M.T. DATE: 4/5/24
 APPROVED BY: _____ DATE: _____

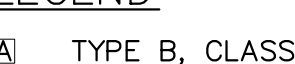

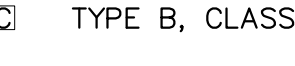

SHEET
 C-1301C
 SCALE 1" = 50'

Plotted By: Waring, Megan Sheet Set: West End Transitway - Phase 1 Layout: C-1301 MOT DETOUR PLAN July 11, 2024 01:29:12pm K:\NVA_Transit\110104122_West_End_Transitway_Design\CADD\PlanSheets\MOT_VAN_DORN_AT_METRO_DETOUR_PLAN.dwg

LEGEND

	WORK ZONE
	TEMPORARY TRAFFIC SIGN
	CHANNELIZING DEVICES
	GROUP 2: LONGITUDINAL CHANNELIZING DEVICES
	DIRECTION OF TRAFFIC
	EXISTING PAVEMENT MARKING
	TEMPORARY PAVEMENT MARKING
	TYPE III BARRICADE
	DIRECTIONAL ARROW BOARD

LEGEND

	TYPE B, CLASS 1 WHITE 24" WIDTH
	TYPE B, CLASS 1 WHITE 12" WIDTH
	TYPE B, CLASS 1 DOUBLE YELLOW 4" WIDTH
	TYPE B, CLASS 1 WHITE 4" WIDTH

NOTES

- CONTRACTOR TO MAINTAIN LOCAL ACCESS AT ALL TIMES
- EXISTING PAVEMENT MARKINGS ARE APPROXIMATE AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO IMPLEMENTING ANY TRAFFIC CONTROL MEASURES
- TEMPORARILY CLOSE BUS STOP. COORDINATE WITH DASH TO REDIRECT RIDERS OF ROUTE 31 TO THE STOP AT BEAUREGARD ST AND BRANCH AVE. COORDINATE WITH WMATA TO REDIRECT RIDERS TO OF ROUTE 7A TO THE STOP AT BEAUREGARD ST AND BRANCH AVE.

PROPOSED IMPROVEMENTS

- MILL & OVERLAY FROM STA 103+60.28 TO STA 110+31.60

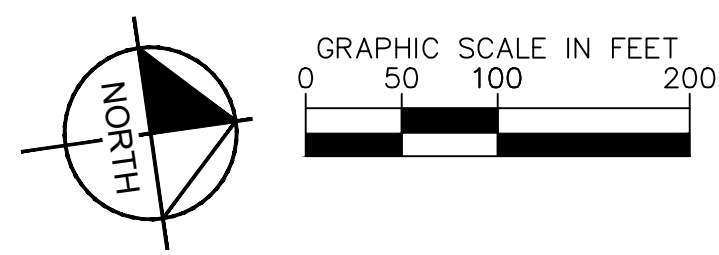
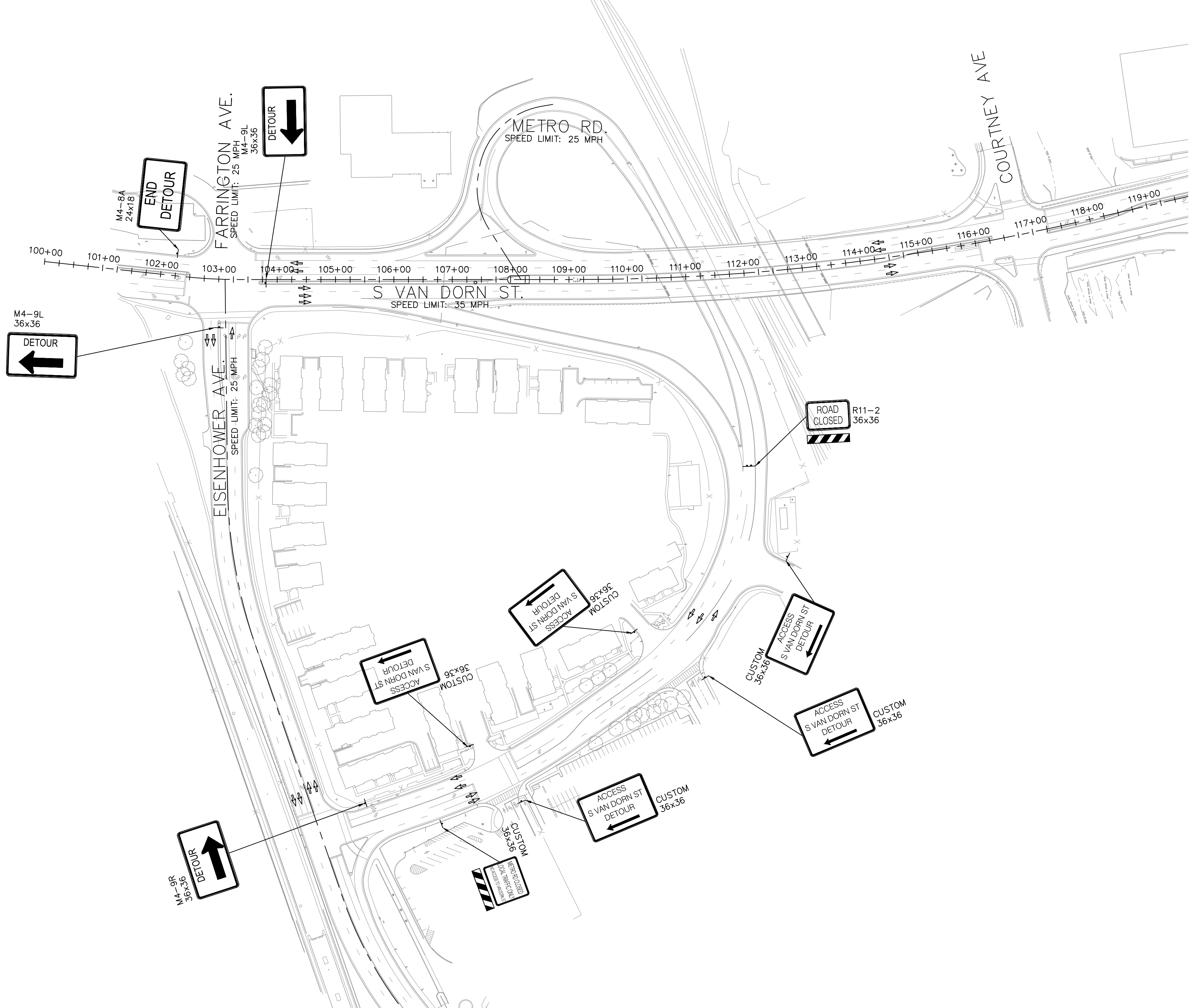
SEQUENCE OF CONSTRUCTION

PHASE 1

CONTRACTOR SHALL SET UP PHASE 1 EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS

INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC-23.2.

CONSTRUCT STORM IMPROVEMENTS AND MILL & OVERLAY ON THE EASTERN SIDE FROM STA 100+99.52 TO STA 103+14.71



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

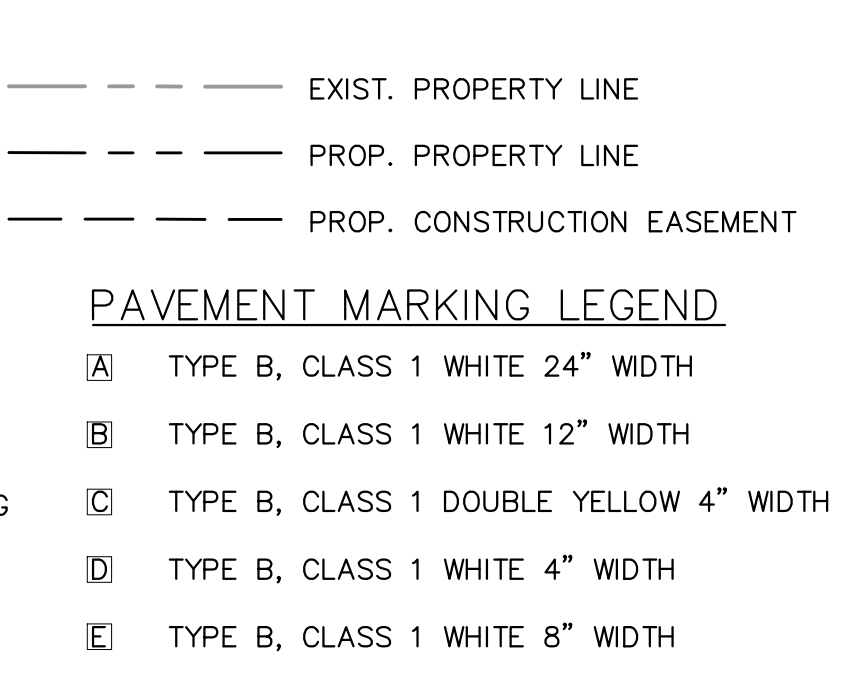
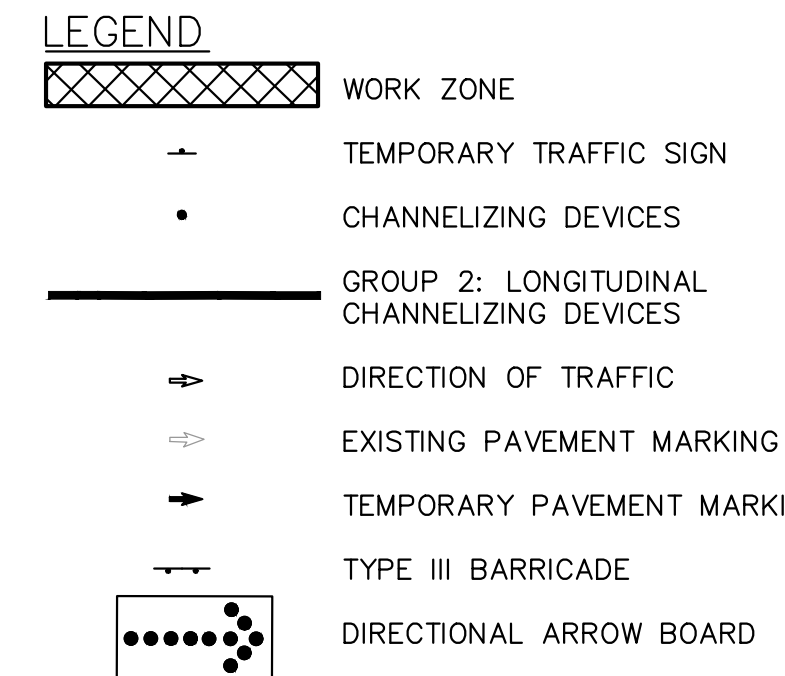
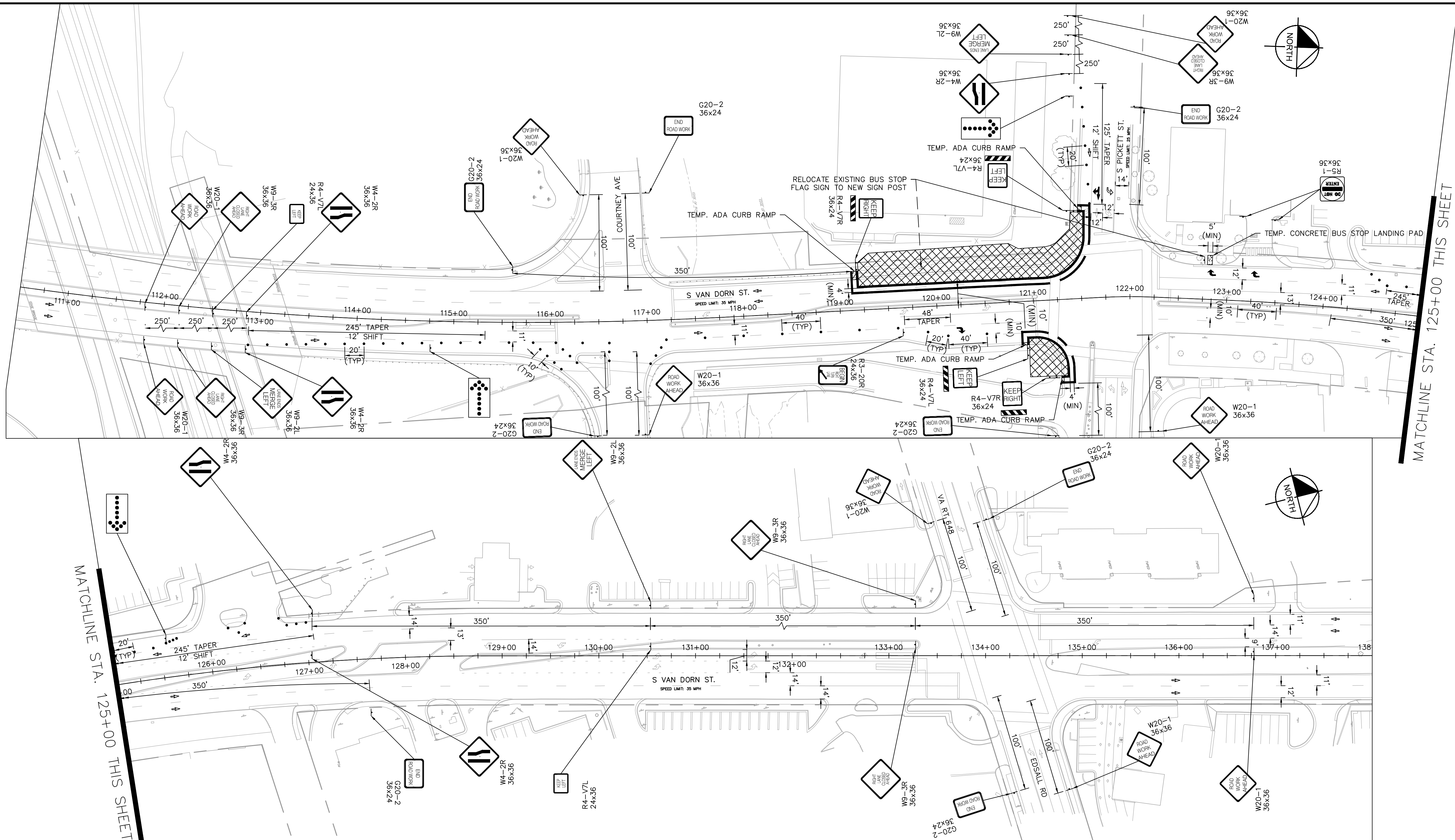
REVISIONS	DATE	DESCRIPTION

ALEXANDRIA PROJECT NO.: 110104122
 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: MAT DATE: 4/5/24
 DRAWN BY: AUB DATE: 4/5/24
 CHECKED BY: EJD DATE: 4/5/24
 APPROVED BY: _____ DATE: _____

**MAINTENANCE OF TRAFFIC
DETOUR PLAN - S VAN DORN
ST AT S METRO RD**

SHEET
C-1301D
SCALE 1" = 100'

Plotted By: Phillips, Mark Sheet: Sect: West End Transitway - Phase 1 Layout: C-1302A MOT PHASE 1 July 12, 2024 07:06:45am K:\NVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\MOT_VAN DORN AT PICKETT PH 1.dwg



NOTES

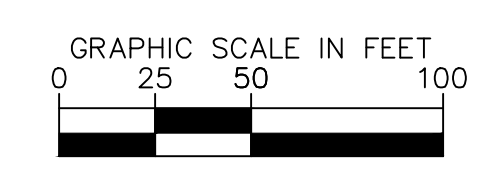
- CONTRACTOR TO MAINTAIN LOCAL ACCESS AT ALL TIMES
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- TEMPORARILY CLOSE BUS STOP. COORDINATE WITH DASH TO REDIRECT RIDERS OF ROUTE 31 TO THE STOP AT BEAUREGARD ST AND BRANCH AVE. COORDINATE WITH WMATA TO REDIRECT RIDERS TO OF ROUTE 7A TO THE STOP AT BEAUREGARD ST AND BRANCH AVE.
- THE CONTRACTOR MUST KEEP LANE OPEN DURING THE PEAK HOURS.

PROPOSED IMPROVEMENTS

- SIDEWALK FROM STA. 119+18.39 TO STA. 121+55.68
- PLATFORM FROM STA. 119+18.39 TO STA. 121+55.68
- CURB AND GUTTER FROM STA. 119+18.39 TO STA. 121+55.68

SEQUENCE OF CONSTRUCTION

- PHASE 1
 - THE CONTRACTOR SHALL SET UP PHASE 1 EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
 - INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 16.2 AND 35.1.
 - CONSTRUCT THE SIDEWALK, PLATFORM, AND CURB AND GUTTER FOR THE SOUTHBOUND BUS STATION FROM STA. 119+18.39 TO STA. 121+55.68
 - CONSTRUCT THE SIDEWALK, AND CURB AND GUTTER NORTHBOUND FROM STA. 120+87.74 TO STA. 121+55.68



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

REVISIONS	DESCRIPTION

ALEXANDRIA PROJECT NO.: 110104122
 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: MAT DATE: 4/5/24
 DRAWN BY: AUB DATE: 4/5/24
 CHECKED BY: EJD DATE: 4/5/24
 APPROVED BY: _____ DATE: _____

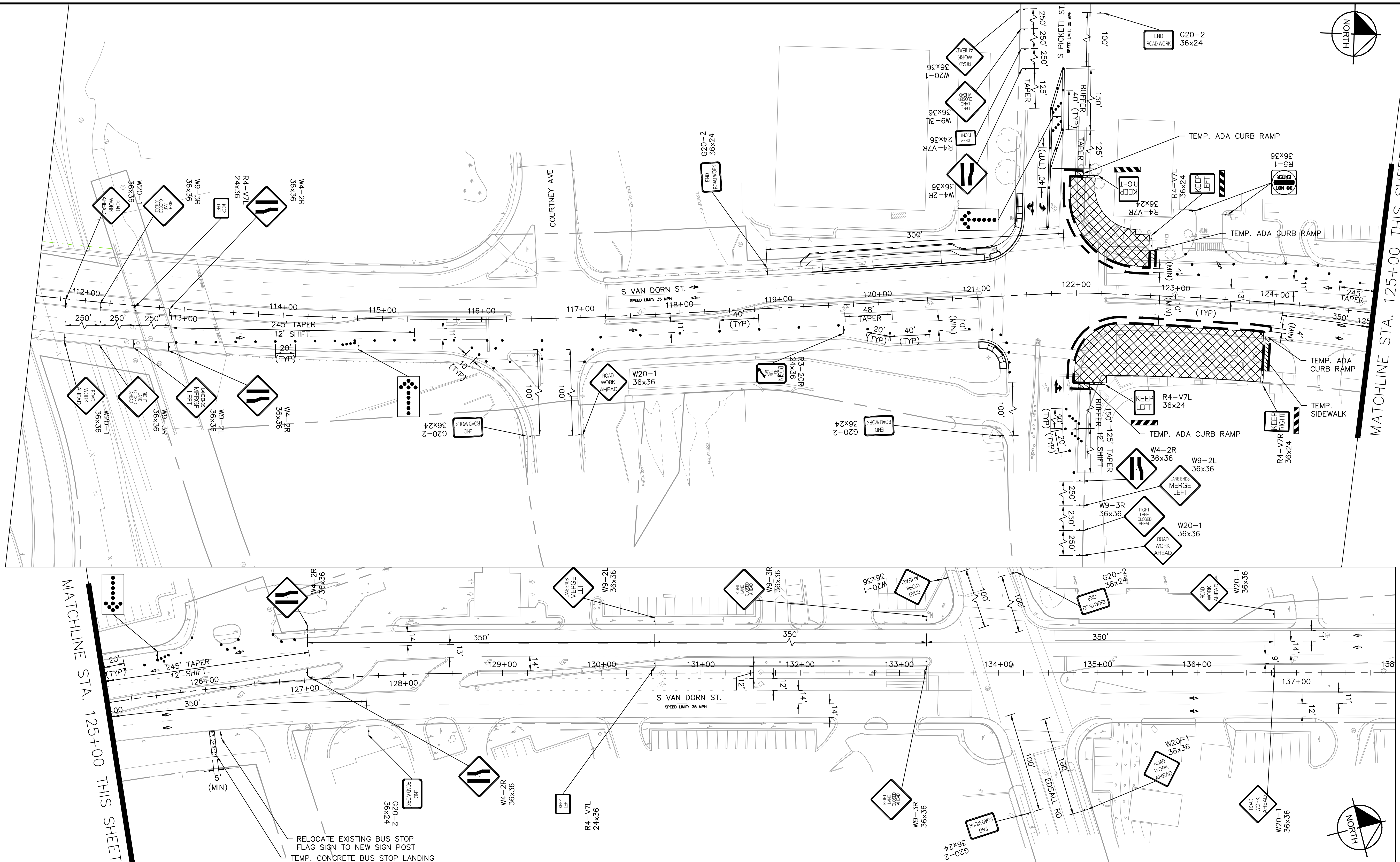
MAINTENANCE OF TRAFFIC
PHASE 1 - S VAN DORN ST
AT S PICKETT ST

MATCHLINE STA. 125+00 THIS SHEET

MATCHLINE STA. 125+00 THIS SHEET

SHEET
 C-1302A
 SCALE 1" = 50'

Plotted By: Phillips, Mark Sheet Set: West End Transitway - Phase 1 Layout: C-1302B MOT PHASE 2 July 12, 2024 07:07:22am K:\NVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\MOT_VAN DORN AT PICKETT PH 2.dwg

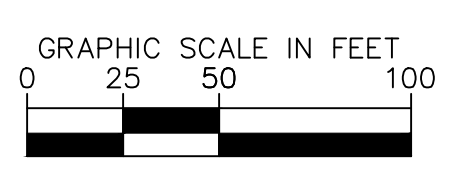


LEGEND		PAVEMENT MARKING LEGEND	
	WORK ZONE		TYPE B, CLASS 1 WHITE 24" WIDTH
	TEMPORARY TRAFFIC SIGN		TYPE B, CLASS 1 WHITE 12" WIDTH
	CHANNELIZING DEVICES		TYPE B, CLASS 1 DOUBLE YELLOW 4" WIDTH
	GROUP 2: LONGITUDINAL CHANNELIZING DEVICES		TYPE B, CLASS 1 WHITE 4" WIDTH
	DIRECTION OF TRAFFIC		TYPE B, CLASS 1 WHITE 8" WIDTH
	EXISTING PAVEMENT MARKING		
	TEMPORARY PAVEMENT MARKING		
	TYPE III BARRICADE		
	DIRECTIONAL ARROW BOARD		
	EXIST. PROPERTY LINE		
	PROP. PROPERTY LINE		
	PROP. CONSTRUCTION EASEMENT		

- NOTES**
- CONTRACTOR TO MAINTAIN LOCAL ACCESS AT ALL TIMES
 - EXISTING PAVEMENT MARKINGS ARE APPROXIMATE AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO IMPLEMENTING ANY TRAFFIC CONTROL MEASURES
 - TEMPORARILY CLOSE BUS STOP. COORDINATE WITH DASH TO REDIRECT RIDERS OF ROUTE 31 TO THE STOP AT BEAUREGARD ST AND BRANCH AVE. COORDINATE WITH WMATA TO REDIRECT RIDERS TO OF ROUTE 7A TO THE STOP AT BEAUREGARD ST AND BRANCH AVE.
 - THE CONTRACTOR MUST KEEP LANE OPEN DURING THE PEAK HOURS.

- PROPOSED IMPROVEMENTS**
- SIDEWALK FROM STA. 121+95.74 TO STA. 122+73.43.
 - PLATFORM FROM STA. 121+95.74 TO STA. 123+92.46
 - CURB AND GUTTER FROM STA. 121+95.74 TO STA. 123+92.46

- SEQUENCE OF CONSTRUCTION**
- PHASE 2
 - THE CONTRACTOR SHALL SET UP PHASE 1 EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
 - INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 16.2 AND 41.2.
 - CONSTRUCT THE SIDEWALK, PLATFORM, AND CURB AND GUTTER FOR THE NORTHBOUND BUS STATIONS FROM STA. 121+95.74 TO STA. 123+92.46.
 - CONSTRUCT THE SIDEWALK, AND CURB AND GUTTER SOUTHBOUND FROM STA. 121+95.74 TO STA. 122+77.43.



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

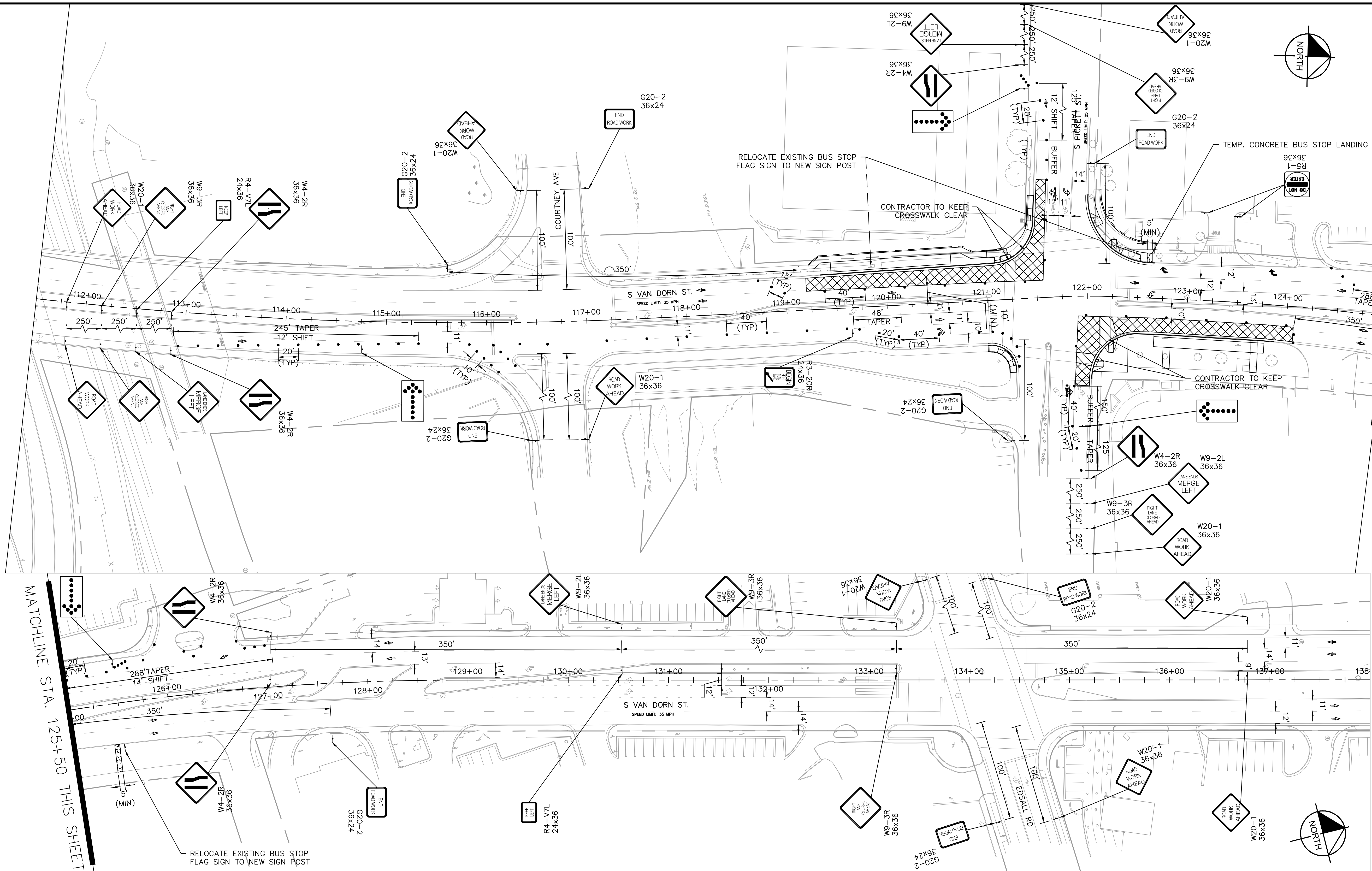
REVISONS	DATE	DESCRIPTION

ALEXANDRIA PROJECT NO.: 110104122
 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: JMAT DATE: 4/5/24
 DRAWN BY: AJB DATE: 4/5/24
 CHECKED BY: EJD DATE: 4/5/24
 APPROVED BY: _____ DATE: _____

MAINTENANCE OF TRAFFIC
PHASE 2 - S VAN DORN ST
AT S PICKETT ST

SHEET
 C-1302B
 SCALE 1" = 50'

Plotted By: Phillips, Mark Sheet Set: West End Transitway - Phase 1 Layout: C-1302C MOT PHASE 3 July 12, 2024 07:08:04am K:\NVA_Transist\110104122\West End Transitway Design\CADD\PlanSheets\MOT VAN DORN AT PICKET PH 3.dwg



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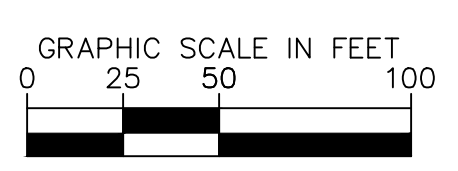
MATCHLINE STA. 125+50 THIS SHEET

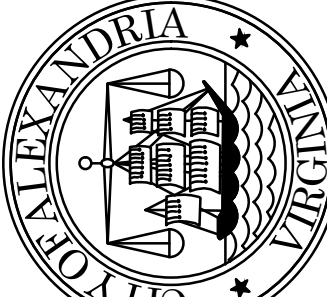
LEGEND	
	WORK ZONE
	TEMPORARY TRAFFIC SIGN
	EXIST. PROPERTY LINE
	CHANNELIZING DEVICES
	PROP. PROPERTY LINE
	GROUP 2: LONGITUDINAL CHANNELIZING DEVICES
	DIRECTION OF TRAFFIC
	EXISTING PAVEMENT MARKING
	TEMPORARY PAVEMENT MARKING
	TYPE III BARRICADE
	DIRECTIONAL ARROW BOARD
	PROP. CONSTRUCTION EASEMENT
PAVEMENT MARKING LEGEND	
	TYPE B, CLASS 1 WHITE 24" WIDTH
	TYPE B, CLASS 1 WHITE 12" WIDTH
	TYPE B, CLASS 1 DOUBLE YELLOW 4" WIDTH
	TYPE B, CLASS 1 WHITE 4" WIDTH
	TYPE B, CLASS 1 WHITE 8" WIDTH

- NOTES**
- CONTRACTOR TO MAINTAIN LOCAL ACCESS AT ALL TIMES
 - EXISTING PAVEMENT MARKINGS ARE APPROXIMATE AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO IMPLEMENTING ANY TRAFFIC CONTROL MEASURES
 - TEMPORARILY CLOSE BUS STOP. COORDINATE WITH DASH TO REDIRECT RIDERS OF ROUTE 31 TO THE STOP AT BEAUREGARD ST AND BRANCH AVE. COORDINATE WITH WMATA TO REDIRECT RIDERS TO OF ROUTE 7A TO THE STOP AT BEAUREGARD ST AND BRANCH AVE.
 - THE CONTRACTOR MUST KEEP LANE OPEN DURING THE PEAK HOURS.

- PROPOSED IMPROVEMENTS**
- CONCRETE BUS PAD FROM STA. 119+62.33 AND STA. 122+21.56 TO STA. 124+07.62
 - MILL & OVERLAY FROM STA. 119+20.39 TO STA. 121+62.33 AND STA. 122+21.56 TO STA. 124+07.62

- SEQUENCE OF CONSTRUCTION**
- PHASE 3
 - THE CONTRACTOR SHALL SET UP PHASE 1 EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
 - INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 16.2. CONSTRUCT THE CONCRETE BUS PAD AND MILL AND OVERLAY THE OUTSIDE SOUTHBOUND LANE OF VAN DORN STREET FROM STA. 119+20.39 TO STA. 121+62.33, AND THE OUTSIDE LANE OF NORTHBOUND VAN DORN STREET FROM STA. 122+21.56 TO STA. 124+07.62





CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

REVISIONS	DESCRIPTION

ALEXANDRIA PROJECT NO.: 110104122

DATE OF PLAN ISSUANCE: N/A

CONSULTANT PROJECT ID: N/A

DESIGNED BY: MAT DATE: 4/5/24

DRAWN BY: AUB DATE: 4/5/24

CHECKED BY: EJD DATE: 4/5/24

APPROVED BY: _____ DATE: _____

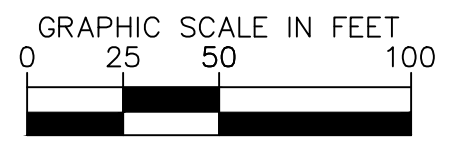
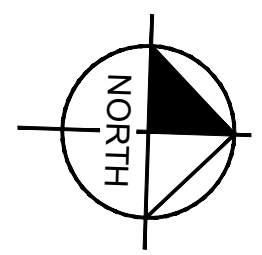
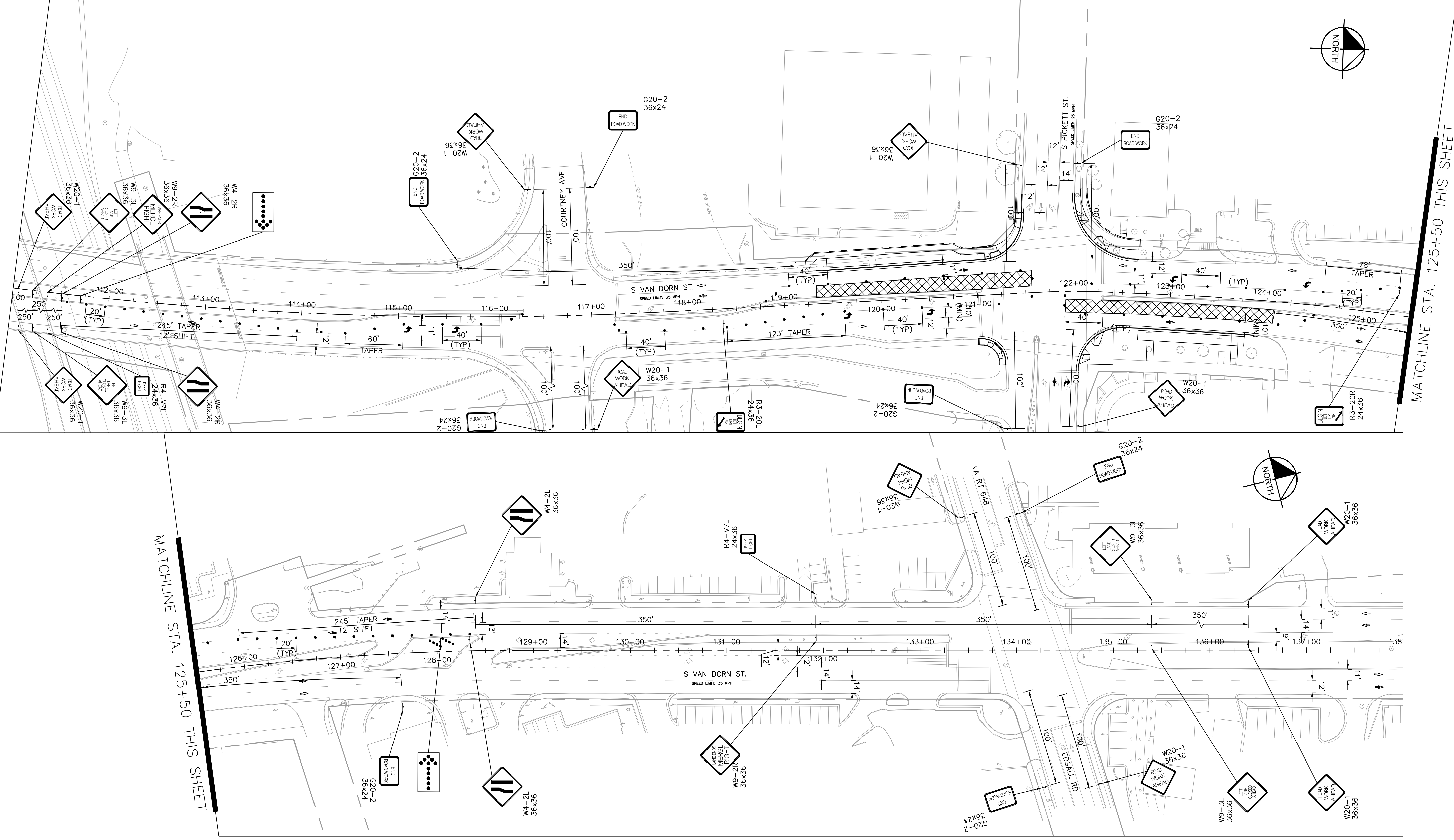
WEST END TRANSITWAY – PHASE 1 IMPROVEMENTS

MAINTENANCE OF TRAFFIC
PHASE 3 – S VAN DORN ST
AT S PICKETT ST

SHEET
C-1302C
SCALE 1" = 50'

90% DESIGN PHASE

Plotted By: Phillips, Mark Sheet Set: West End Transitway - Phase 1 Layout: C-1302D MOT PHASE 4 July 12, 2024 07:08:41am K:\NVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\MOT_VAN DORN AT PICKETT PH 4.dwg



LEGEND

	WORK ZONE
	TEMPORARY TRAFFIC SIGN
	CHANNELIZING DEVICES
	GROUP 2: LONGITUDINAL CHANNELIZING DEVICES
	DIRECTION OF TRAFFIC
	EXISTING PAVEMENT MARKING
	TEMPORARY PAVEMENT MARKING
	TYPE III BARRICADE
	DIRECTIONAL ARROW BOARD

EXIST. PROPERTY LINE
 - - - - - EXIST. PROPERTY LINE
 - - - - - PROP. PROPERTY LINE
 - - - - - PROP. CONSTRUCTION EASEMENT

PAVEMENT MARKING LEGEND

	TYPE B, CLASS 1 WHITE 24" WIDTH
	TYPE B, CLASS 1 WHITE 12" WIDTH
	TYPE B, CLASS 1 DOUBLE YELLOW 4" WIDTH
	TYPE B, CLASS 1 WHITE 4" WIDTH
	TYPE B, CLASS 1 WHITE 8" WIDTH

- NOTES**
- CONTRACTOR TO MAINTAIN LOCAL ACCESS AT ALL TIMES
 - EXISTING PAVEMENT MARKINGS ARE APPROXIMATE AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO IMPLEMENTING ANY TRAFFIC CONTROL MEASURES
 - TEMPORARILY CLOSE BUS STOP. COORDINATE WITH DASH TO REDIRECT RIDERS OF ROUTE 31 TO THE STOP AT BEAUREGARD ST AND BRANCH AVE. COORDINATE WITH WMATA TO REDIRECT RIDERS TO OF ROUTE 7A TO THE STOP AT BEAUREGARD ST AND BRANCH AVE.
 - THE CONTRACTOR MUST KEEP LANE OPEN DURING THE PEAK HOURS.

- PROPOSED IMPROVEMENTS**
- MILL & OVERLAY FROM STA. 103+65.33 TO STA. 121+06.13 AND STA. 122+21.56 AND STA. 124+07.62

- SEQUENCE OF CONSTRUCTION**
- PHASE 4
 - THE CONTRACTOR SHALL SET UP PHASE 1 EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
 - INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 17.2.
 - MILL AND OVERLAY THE CENTER SOUTHBOUND LANE OF VAN DORN STREET FROM STA. 103+65.33 TO STA. 121+06.13 AND STA. 122+21.56 AND STA. 124+07.62.

WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS



CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

REVISIONS	DESCRIPTION
DATE	
BY	

ALEXANDRIA PROJECT NO.: 110104122
 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: VALUE DATE: 4/5/24
 DRAWN BY: VALUE DATE: 4/5/24
 CHECKED BY: VALUE DATE: 4/5/24
 APPROVED BY: _____ DATE: _____

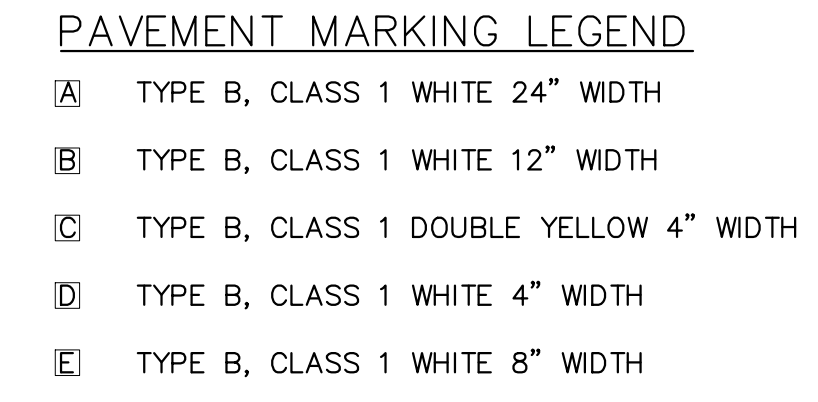
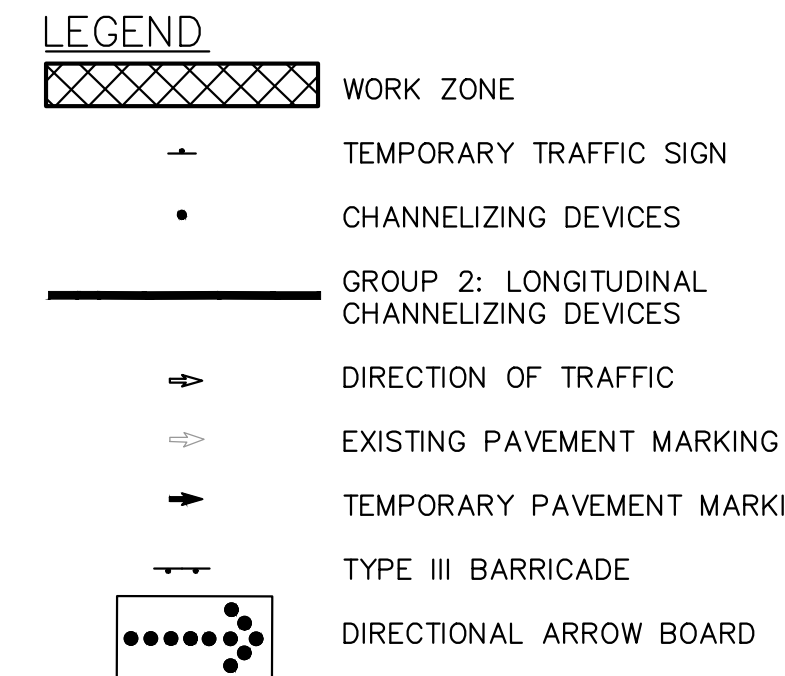
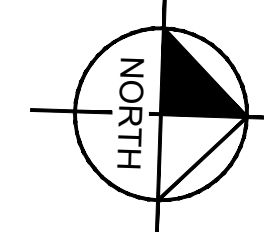
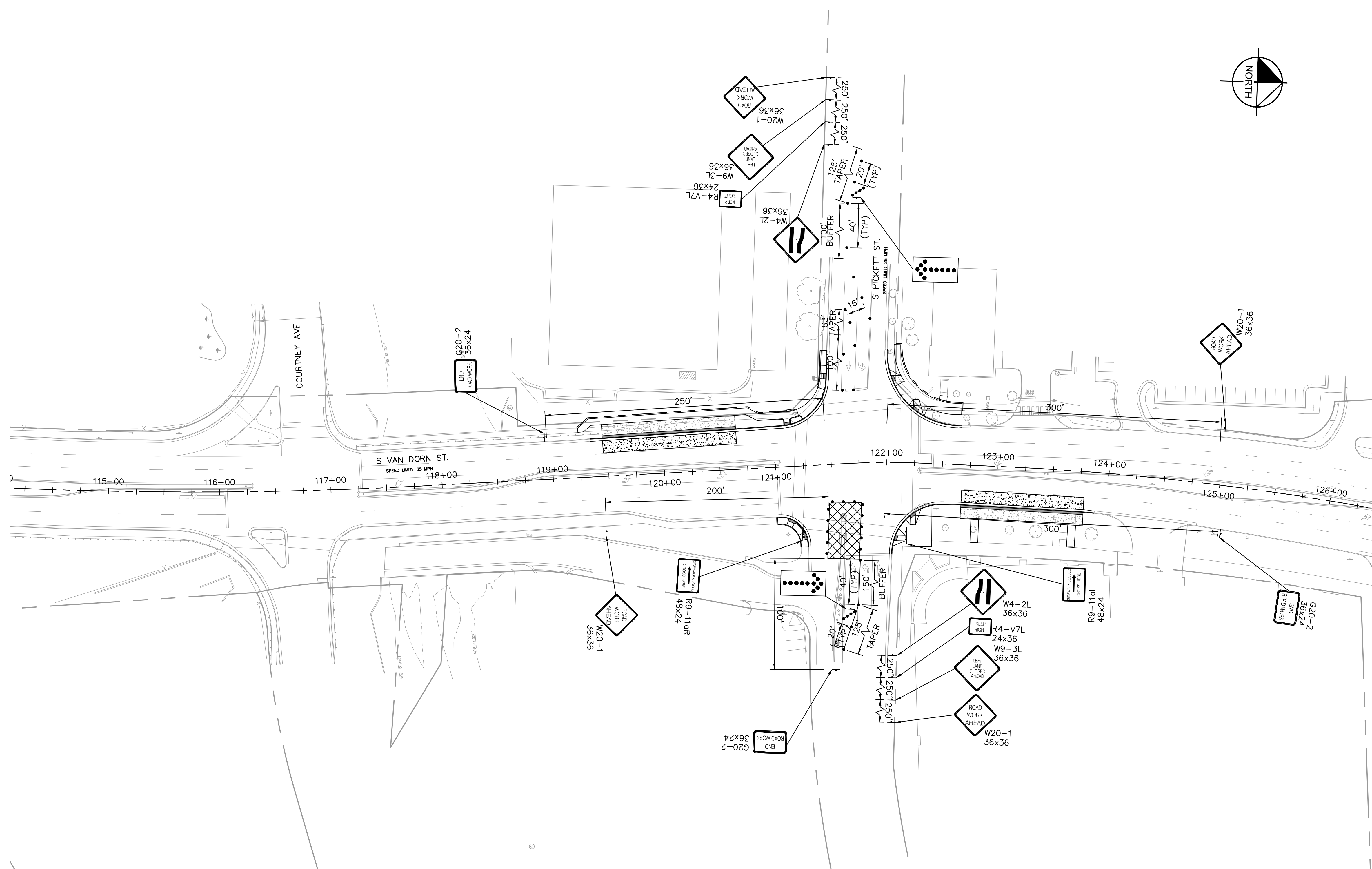
MAINTENANCE OF TRAFFIC
PHASE 4 - S VAN DORN ST
AT S PICKETT ST

SHEET
 C-1302D
 SCALE 1" = 50'

90% DESIGN PHASE

MATCHLINE STA. 125+50 THIS SHEET

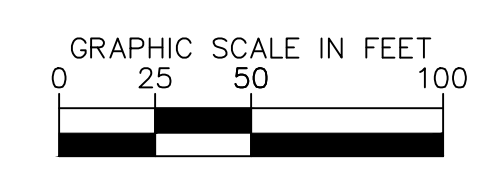
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- NOTES**
- CONTRACTOR TO MAINTAIN LOCAL ACCESS AT ALL TIMES
 - EXISTING PAVEMENT MARKINGS ARE APPROXIMATE AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO IMPLEMENTING ANY TRAFFIC CONTROL MEASURES
 - TEMPORARILY CLOSE BUS STOP. COORDINATE WITH DASH TO REDIRECT RIDERS OF ROUTE 31 TO THE STOP AT BEAUREGARD ST AND BRANCH AVE. COORDINATE WITH WMATA TO REDIRECT RIDERS TO OF ROUTE 7A TO THE STOP AT BEAUREGARD ST AND BRANCH AVE.
 - THE CONTRACTOR MUST KEEP LANE OPEN DURING THE PEAK HOURS.

- PROPOSED IMPROVEMENTS**
- CONSTRUCT THE MEDIAN FROM STA. 121+46.79 TO STA. 121+75.84.

- SEQUENCE OF CONSTRUCTION**
- PHASE 5
 - THE CONTRACTOR SHALL SET UP PHASE 1 EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
 - INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 17.2 AND 26.2.
 - CONSTRUCT THE MEDIAN ON PICKETT STREET FROM STA. 121+46.79 TO STA. 121+75.84.



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

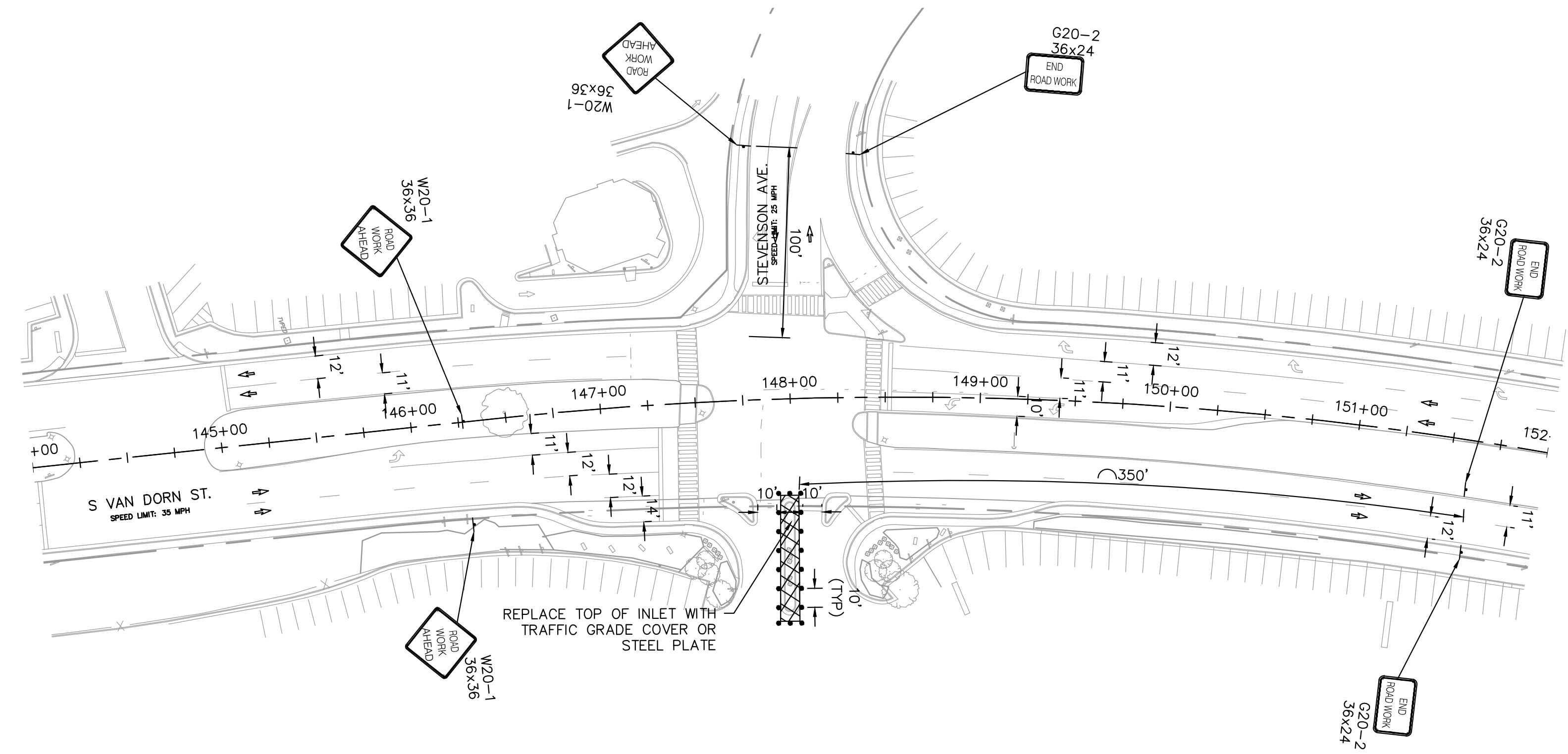
**MAINTENANCE OF TRAFFIC
PHASE 5 - S VAN DORN ST
AT S PICKETT ST**

ALEXANDRIA PROJECT NO.: 110104122
DATE OF PLAN ISSUANCE: N/A
CONSULTANT PROJECT ID: N/A
DESIGNED BY: VALUE DATE: 4/5/24
DRAWN BY: VALUE DATE: 4/5/24
CHECKED BY: VALUE DATE: 4/5/24
APPROVED BY: _____ DATE: _____

REVISIONS	DATE	DESCRIPTION

SHEET
C-1302E
SCALE 1" = 50'

Plotted By: Phillips, Mark Sheet Set: West End Transitway - Phase 1 Layout: C-1303A MOT PHASE 1 July 12, 2024 07:09:42am K:\NVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\MOT_VAN DORN AND STEVENSON PH 1.dwg



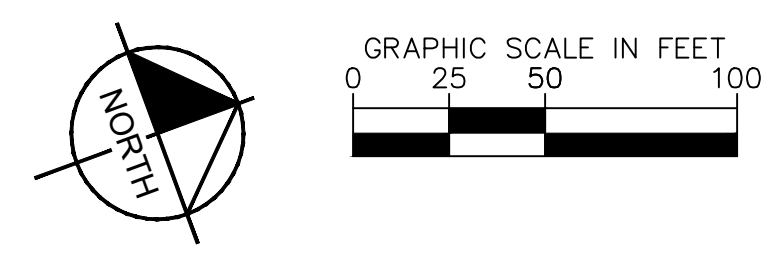
LEGEND

	WORK ZONE		EXIST. PROPERTY LINE
	TEMPORARY TRAFFIC SIGN		PROP. PROPERTY LINE
	CHANNELIZING DEVICES		PROP. CONSTRUCTION EASEMENT
	GROUP 2: LONGITUDINAL CHANNELIZING DEVICES	PAVEMENT MARKING LEGEND	
	DIRECTION OF TRAFFIC		A TYPE B, CLASS 1 WHITE 24" WIDTH
	EXISTING PAVEMENT MARKING		B TYPE B, CLASS 1 WHITE 12" WIDTH
	TEMPORARY PAVEMENT MARKING		C TYPE B, CLASS 1 DOUBLE YELLOW 4" WIDTH
	TYPE III BARRICADE		D TYPE B, CLASS 1 WHITE 4" WIDTH
	DIRECTIONAL ARROW BOARD		E TYPE B, CLASS 1 WHITE 8" WIDTH

- NOTES**
- CONTRACTOR TO MAINTAIN LOCAL ACCESS AT ALL TIMES
 - EXISTING PAVEMENT MARKINGS ARE APPROXIMATE AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO IMPLEMENTING ANY TRAFFIC CONTROL MEASURES
 - TEMPORARILY CLOSE BUS STOP. COORDINATE WITH DASH TO REDIRECT RIDERS OF ROUTE 31 TO THE STOP AT BEAUREGARD ST AND BRANCH AVE. COORDINATE WITH WMATA TO REDIRECT RIDERS TO OF ROUTE 7A TO THE STOP AT BEAUREGARD ST AND BRANCH AVE.
 - THE CONTRACTOR MUST KEEP LANE OPEN DURING THE PEAK HOURS.

- PROPOSED IMPROVEMENTS**
- DEMOLISH MEDIAN FROM STA. 147+93.38 TO STA. 148+03.23

- SEQUENCE OF CONSTRUCTION**
- PHASE 1
 - THE CONTRACTOR SHALL SET UP PHASE 1 EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
 - INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH PLAN SHEET C-1303A.
 - DEMOLISH THE MEDIAN AND INSTALL TEMPORARY PAVEMENT ON STEVENSON AVENUE FROM STA. 147+93.38 TO STA. 148+03.23.



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

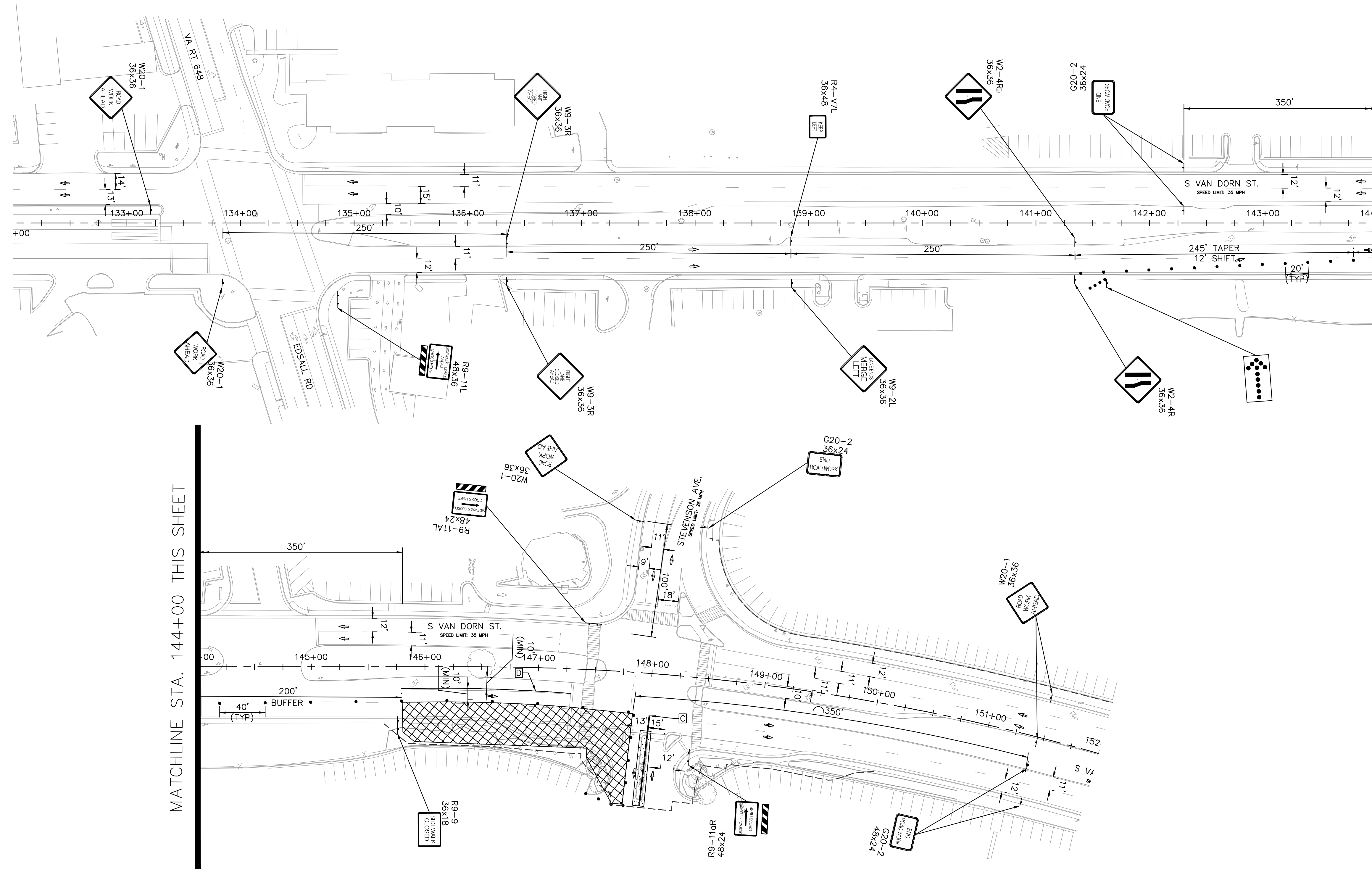
REVISIONS	DATE	DESCRIPTION

ALEXANDRIA PROJECT NO.:	110104122
DATE OF PLAN ISSUANCE:	N/A
CONSULTANT PROJECT ID.:	N/A
DESIGNED BY:	MAT. DATE: 8/17/23
DRAWN BY:	AJB. DATE: 8/17/23
CHECKED BY:	EJD. DATE: 8/17/23
APPROVED BY:	DATE: 8/17/23

MAINTENANCE OF TRAFFIC
PHASE 1 - S VAN DORN ST
AT STEVENSON AVE

SHEET
 C-1303A
 SCALE 1" = 50'

Plotted By: Worring, Megan Sheet Set: West End Transitway - Phase 1 Layout: C-1304 MOT PHASE 1 July 11, 2024 01:35:26pm K:\NVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\MOT VAN DORN AND STEVENSON PH 2a.dwg



MATCHLINE STA. 144+00 THIS SHEET

MATCHLINE STA. 144+00 THIS SHEET

LEGEND

- | | | | |
|--|--|--------------------------------|--|
| | WORK ZONE | | EXIST. PROPERTY LINE |
| | TEMPORARY TRAFFIC SIGN | | PROP. PROPERTY LINE |
| | CHANNELIZING DEVICES | | PROP. CONSTRUCTION EASEMENT |
| | GROUP 2: LONGITUDINAL CHANNELIZING DEVICES | PAVEMENT MARKING LEGEND | |
| | DIRECTION OF TRAFFIC | | TYPE B, CLASS 1 WHITE 24" WIDTH |
| | EXISTING PAVEMENT MARKING | | TYPE B, CLASS 1 WHITE 12" WIDTH |
| | TEMPORARY PAVEMENT MARKING | | TYPE B, CLASS 1 DOUBLE YELLOW 4" WIDTH |
| | TYPE III BARRICADE | | TYPE B, CLASS 1 WHITE 4" WIDTH |
| | DIRECTIONAL ARROW BOARD | | TYPE B, CLASS 1 WHITE 8" WIDTH |

NOTES

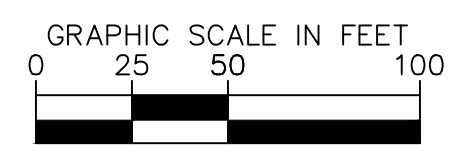
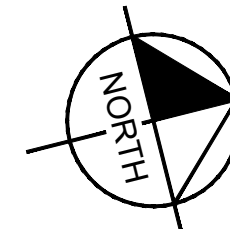
- CONTRACTOR TO MAINTAIN LOCAL ACCESS AT ALL TIMES
- EXISTING PAVEMENT MARKINGS ARE APPROXIMATE AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO IMPLEMENTING ANY TRAFFIC CONTROL MEASURES
- TEMPORARILY CLOSE BUS STOP. COORDINATE WITH DASH TO REDIRECT RIDERS OF ROUTE 31 TO THE STOP AT BEAUREGARD ST AND BRANCH AVE. COORDINATE WITH WMATA TO REDIRECT RIDERS TO OF ROUTE 7A TO THE STOP AT BEAUREGARD ST AND BRANCH AVE.
- THE CONTRACTOR MUST KEEP LANE OPEN DURING THE PEAK HOURS.

PROPOSED IMPROVEMENTS

- SIDEWALK FROM STA. 145+80.00 TO STA. 147+85.33
- PLATFORM FROM STA. 145+80.00 TO STA. 147+85.33
- CURB AND GUTTER FROM STA. 145+80.00 TO STA. 147+85.33
- CONCRETE BUS PAD FROM STA. 145+80.00 TO STA. 147+85.33
- MILL & OVERLAY FROM STA. 145+80.00 TO STA. 147+85.33

SEQUENCE OF CONSTRUCTION

- PHASE 2A
 - THE CONTRACTOR SHALL SET UP PHASE 1 EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
 - INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 17.2.
 - CONSTRUCT THE SIDEWALK, PLATFORM, CURB AND GUTTER, AND CONCRETE BUS PAD FOR THE NORTHBOUND BUS STATIONS AND OUTSIDE LANE MILL AND OVERLAY ALONG VAN DORN STREET FROM STA. 145+80.00 TO STA. 147+85.33.



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

**MAINTENANCE OF TRAFFIC
PHASE 2A - S VAN DORN ST
AT STEVENSON AVE**

SHEET
C-1303B
SCALE 1" = 50'

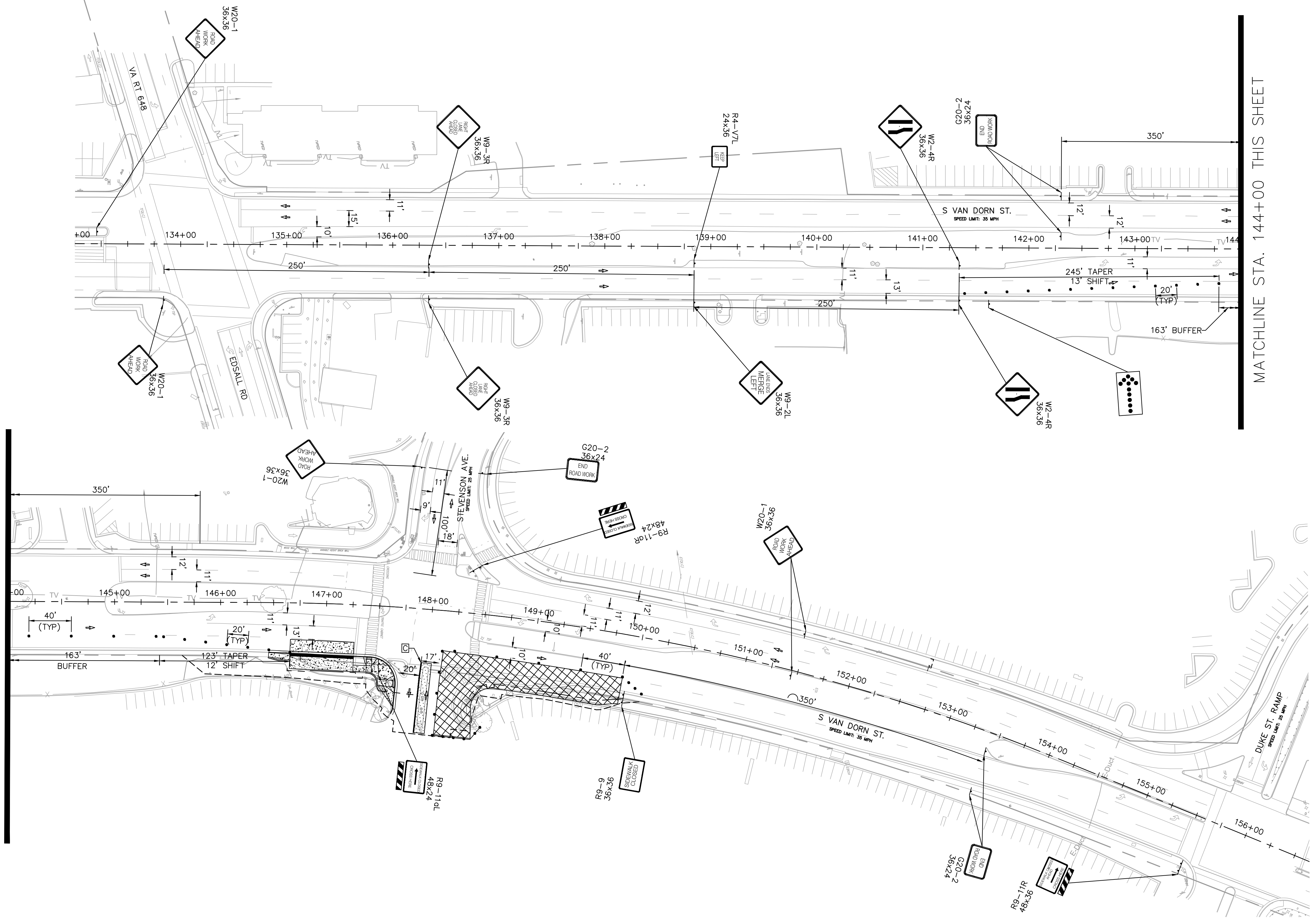
REVISIONS	DATE	DESCRIPTION

ALEXANDRIA PROJECT NO.: 110104122
 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: MAT DATE: 7/2/24
 DRAWN BY: AUB DATE: 7/2/24
 CHECKED BY: EJD DATE: 7/2/24
 APPROVED BY: DATE: 7/2/24

CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

Plotted By: Phillips, Mark Sheet Set: West End Transitway - Phase 1 Layout: C-1304 MOT PHASE 1 July 12, 2024 07:18:07am K:\NVA_Transit\10104122_West End Transitway Design\CADD\PlanSheets\MOT VAN DORN AND STEVENSON PH 2b.dwg

MATCHLINE STA. 144+00 THIS SHEET



MATCHLINE STA. 144+00 THIS SHEET

LEGEND

	WORK ZONE		EXIST. PROPERTY LINE
	TEMPORARY TRAFFIC SIGN		PROP. PROPERTY LINE
	CHANNELIZING DEVICES		PROP. CONSTRUCTION EASEMENT
	GROUP 2: LONGITUDINAL CHANNELIZING DEVICES		
	DIRECTION OF TRAFFIC		
	EXISTING PAVEMENT MARKING		
	TEMPORARY PAVEMENT MARKING		
	TYPE III BARRICADE		
	DIRECTIONAL ARROW BOARD		

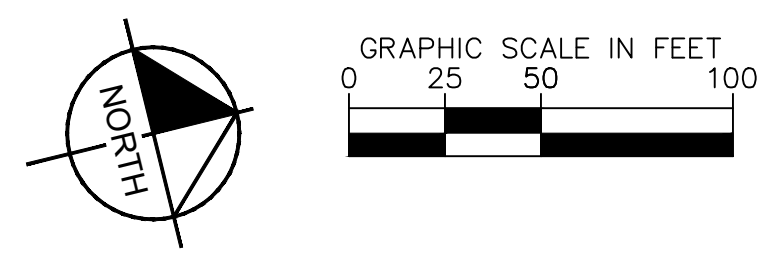
PAVEMENT MARKING LEGEND

	TYPE B, CLASS 1 WHITE 24" WIDTH
	TYPE B, CLASS 1 WHITE 12" WIDTH
	TYPE B, CLASS 1 DOUBLE YELLOW 4" WIDTH
	TYPE B, CLASS 1 WHITE 4" WIDTH
	TYPE B, CLASS 1 WHITE 8" WIDTH

- NOTES**
- CONTRACTOR TO MAINTAIN LOCAL ACCESS AT ALL TIMES
 - EXISTING PAVEMENT MARKINGS ARE APPROXIMATE AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO IMPLEMENTING ANY TRAFFIC CONTROL MEASURES
 - TEMPORARILY CLOSE BUS STOP. COORDINATE WITH DASH TO REDIRECT RIDERS OF ROUTE 31 TO THE STOP AT BEAUREGARD ST AND BRANCH AVE. COORDINATE WITH WMATA TO REDIRECT RIDERS TO OF ROUTE 7A TO THE STOP AT BEAUREGARD ST AND BRANCH AVE.
 - THE CONTRACTOR MUST KEEP LANE OPEN DURING THE PEAK HOURS.

- PROPOSED IMPROVEMENTS**
- SIDEWALK FROM STA. 148+13.66 TO STA. 149+88.79
 - PLATFORM FROM STA. 148+13.66 TO STA. 149+88.79
 - CURB AND GUTTER FROM STA. 148+13.66 TO STA. 149+88.79
 - MILL & OVERLAY FROM STA. 148+13.66 TO STA. 149+88.79

- SEQUENCE OF CONSTRUCTION**
- PHASE 2B
 - THE CONTRACTOR SHALL SET UP PHASE 1 EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
 - INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 17.2.
 - CONSTRUCT THE SIDEWALK, PLATFORM, CURB AND GUTTER, AND OUTSIDE LANE. MILL AND OVERLAY ALONG VAN DORN STREET FROM STA. 148+13.66 TO STA. 149+88.79.



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

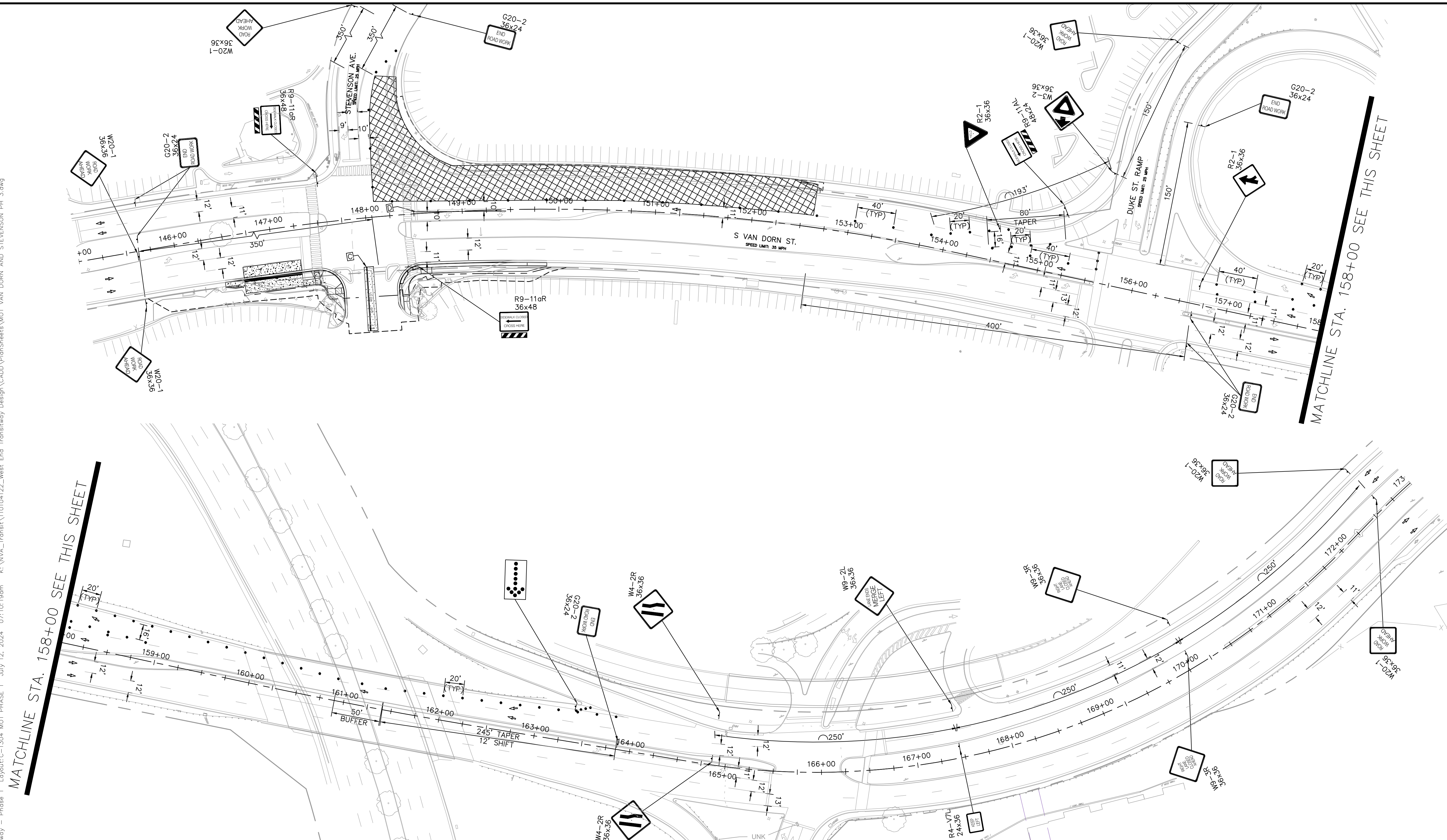
REVISIONS	DATE	DESCRIPTION

ALEXANDRIA PROJECT NO.: 110104122	DATE OF PLAN ISSUANCE: N/A
CONSULTANT PROJECT ID: N/A	DESIGNED BY: MAT DATE: 5/4/23
	DRAWN BY: AUB DATE: 5/4/23
	CHECKED BY: EJD DATE: 5/4/23
	APPROVED BY: DATE: 5/4/23

MAINTENANCE OF TRAFFIC
PHASE 2B - S VAN DORN ST
AT STEVENSON AVE

SHEET
C-1303C
SCALE 1" = 50'

Plotted By: Phillips, Mark Sheet Set: West End Transitway - Phase 1 Layout: C-1304 MOT PHASE 1 July 12, 2024 07:10:19am K:\VVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\MOT VAN DORN AND STEVENSON PH 3.dwg



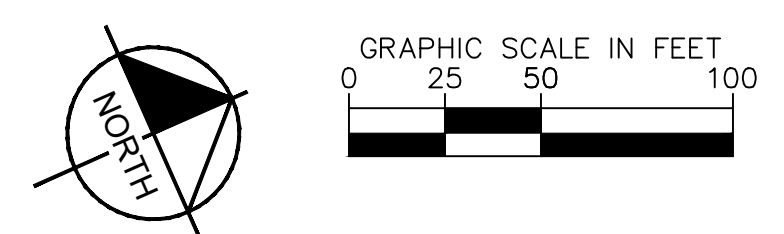
LEGEND

	WORK ZONE		EXIST. PROPERTY LINE
	TEMPORARY TRAFFIC SIGN		PROP. PROPERTY LINE
	CHANNELIZING DEVICES		PROP. CONSTRUCTION EASEMENT
	GROUP 2: LONGITUDINAL CHANNELIZING DEVICES	PAVEMENT MARKING LEGEND	
	DIRECTION OF TRAFFIC		TYPE B, CLASS 1 WHITE 24" WIDTH
	EXISTING PAVEMENT MARKING		TYPE B, CLASS 1 WHITE 12" WIDTH
	TEMPORARY PAVEMENT MARKING		TYPE B, CLASS 1 DOUBLE YELLOW 4" WIDTH
	TYPE III BARRICADE		TYPE B, CLASS 1 WHITE 4" WIDTH
	DIRECTIONAL ARROW BOARD		TYPE B, CLASS 1 WHITE 8" WIDTH

- NOTES**
- CONTRACTOR TO MAINTAIN LOCAL ACCESS AT ALL TIMES
 - EXISTING PAVEMENT MARKINGS ARE APPROXIMATE AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO IMPLEMENTING ANY TRAFFIC CONTROL MEASURES
 - TEMPORARILY CLOSE BUS STOP. COORDINATE WITH DASH TO REDIRECT RIDERS OF ROUTE 31 TO THE STOP AT BEAUREGARD ST AND BRANCH AVE. COORDINATE WITH WMATA TO REDIRECT RIDERS TO OF ROUTE 7A TO THE STOP AT BEAUREGARD ST AND BRANCH AVE.
 - THE CONTRACTOR MUST KEEP LANE OPEN DURING THE PEAK HOURS.

- PROPOSED IMPROVEMENTS**
- SIDEWALK FROM STA. 148+09.51 TO STA. 152+62.45
 - PLATFORM FROM STA. 148+09.51 TO STA. 152+62.45
 - CURB AND GUTTER FROM STA. 148+09.51 TO STA. 152+62.45
 - CONCRETE BUS PAD FROM STA. 148+09.51 TO STA. 152+62.45
 - MILL & OVERLAY FROM STA. 148+09.51 TO STA. 152+62.45

- SEQUENCE OF CONSTRUCTION**
- PHASE 3
 - THE CONTRACTOR SHALL SET UP PHASE 1 EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
 - INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 17.2 AND 39.2.
 - CONSTRUCT THE SIDEWALK, PLATFORM, CURB AND GUTTER, AND CONCRETE BUS PAD FOR THE SOUTHBOUND BUS STATIONS AND OUTSIDE LANE. MILL AND OVERLAY ALONG VAN DORN STREET AND STEVENSON AVENUE FROM STA. 148+09.51 TO STA. 152+62.45.



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

MAINTENANCE OF TRAFFIC
PHASE 3 - S VAN DORN ST
AT STEVENSON AVE

90% DESIGN PHASE

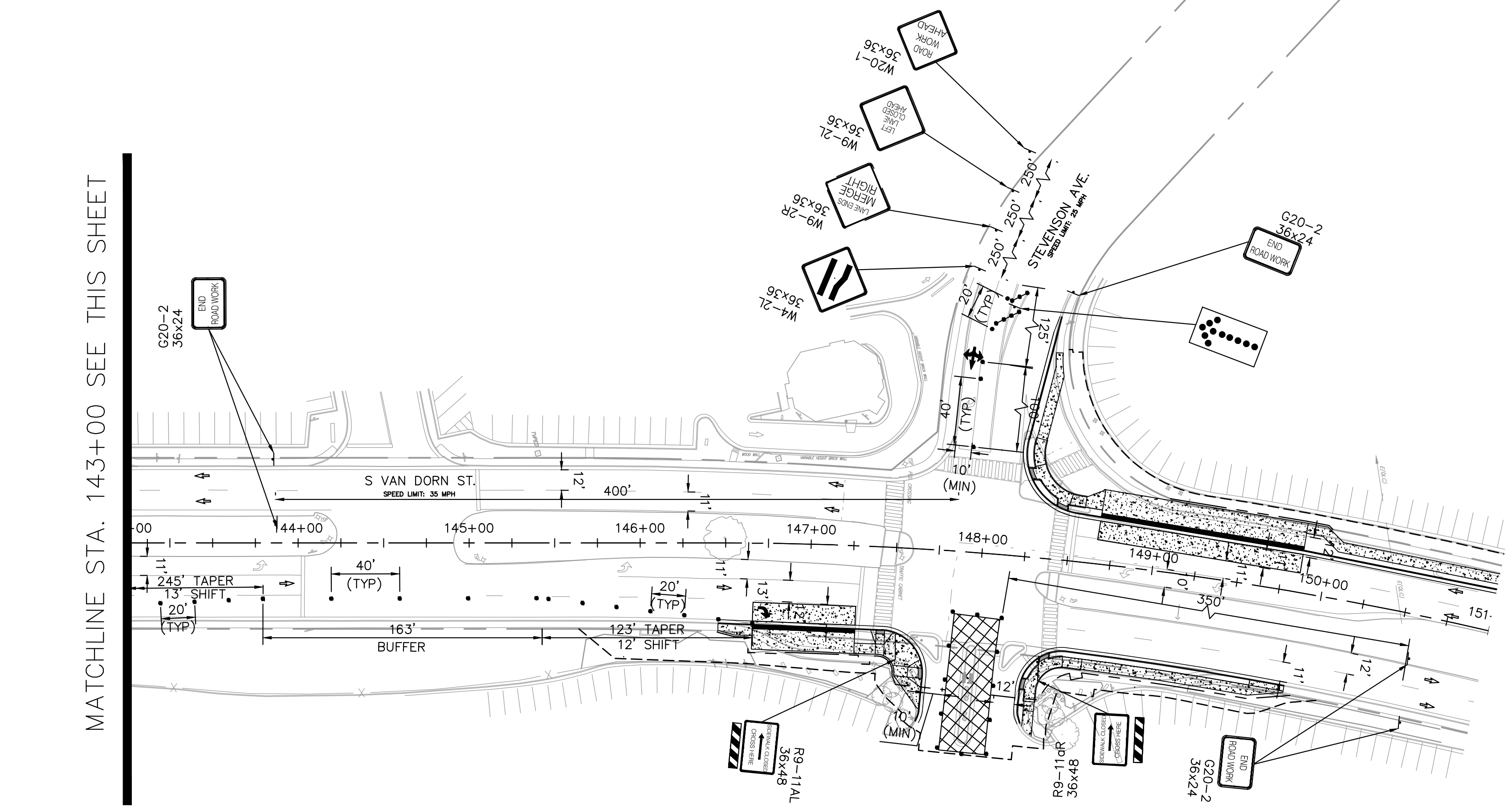
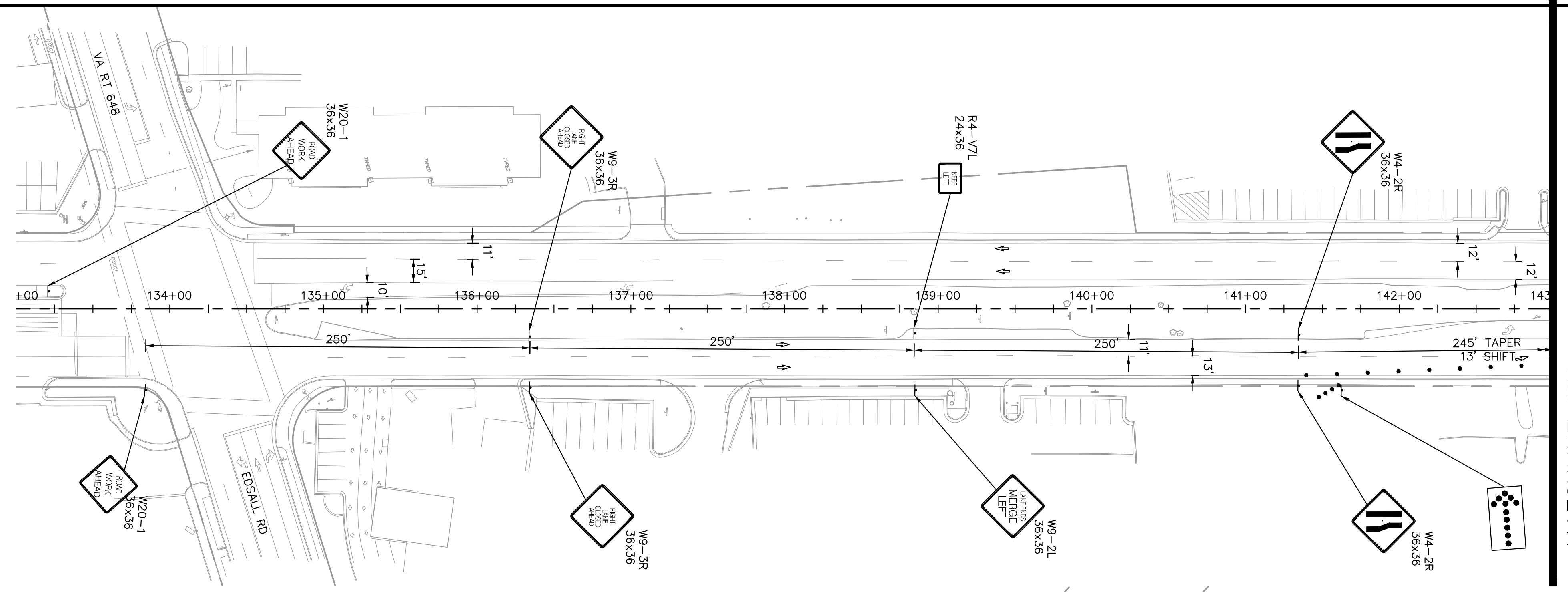
CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

REVISIONS	DATE	DESCRIPTION

ALEXANDRIA PROJECT NO.: 110104122	DATE OF PLAN ISSUANCE: N/A
CONSULTANT PROJECT ID: N/A	DESIGNED BY: MAT DATE: 7/2/24
	DRAWN BY: AUB DATE: 7/2/24
	CHECKED BY: EJD DATE: 7/2/24
	APPROVED BY: DATE: 7/2/24

SHEET
C-1303D
SCALE 1" = 50'

Plotted By: Phillips, Mark Sheet Set: West End Transitway - Phase 1 July 12, 2024 07:10:56am K:\NVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\MOT VAN DORN AND STEVENSON PH 4.dwg



MATCHLINE STA. 143+00 SEE THIS SHEET

MATCHLINE STA. 143+00 SEE THIS SHEET

LEGEND

	WORK ZONE
	TEMPORARY TRAFFIC SIGN
	CHANNELIZING DEVICES
	GROUP 2: LONGITUDINAL CHANNELIZING DEVICES
	DIRECTION OF TRAFFIC
	EXISTING PAVEMENT MARKING
	TEMPORARY PAVEMENT MARKING
	TYPE III BARRICADE
	DIRECTIONAL ARROW BOARD

	EXIST. PROPERTY LINE
	PROP. PROPERTY LINE
	PROP. CONSTRUCTION EASEMENT

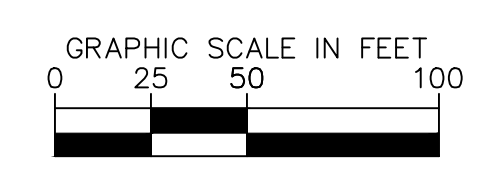
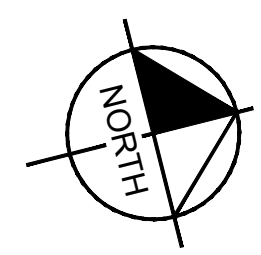
PAVEMENT MARKING LEGEND

	TYPE B, CLASS 1 WHITE 24" WIDTH
	TYPE B, CLASS 1 WHITE 12" WIDTH
	TYPE B, CLASS 1 DOUBLE YELLOW 4" WIDTH
	TYPE B, CLASS 1 WHITE 4" WIDTH
	TYPE B, CLASS 1 WHITE 8" WIDTH

- NOTES**
- CONTRACTOR TO MAINTAIN LOCAL ACCESS AT ALL TIMES
 - EXISTING PAVEMENT MARKINGS ARE APPROXIMATE AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO IMPLEMENTING ANY TRAFFIC CONTROL MEASURES
 - TEMPORARILY CLOSE BUS STOP. COORDINATE WITH DASH TO REDIRECT RIDERS OF ROUTE 31 TO THE STOP AT BEAUREGARD ST AND BRANCH AVE. COORDINATE WITH WMATA TO REDIRECT RIDERS TO OF ROUTE 7A TO THE STOP AT BEAUREGARD ST AND BRANCH AVE.
 - THE CONTRACTOR MUST KEEP LANE OPEN DURING THE PEAK HOURS.

- PROPOSED IMPROVEMENTS**
- MEDIAN FROM STA. 147+86.35 TO STA. 148+13.66
 - MILL & OVERLAY FROM STA. 147+86.35 TO STA. 148+13.66

- SEQUENCE OF CONSTRUCTION**
- PHASE 4
 - THE CONTRACTOR SHALL SET UP PHASE 1 EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
 - INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 17.2 AND 39.2.
 - CONSTRUCT THE MEDIAN ON STEVENSON AVENUE AND MILL AND OVERLAY THE OUTSIDE LANE ALONG VAN DORN STREET FROM STA. 147+86.35 TO STA. 148+13.66.



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

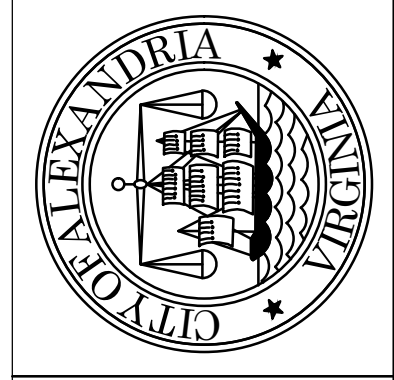
**MAINTENANCE OF TRAFFIC
PHASE 4 - S VAN DORN ST
AT STEVENSON AVE**

SHEET
C-1303E
SCALE 1" = 50'

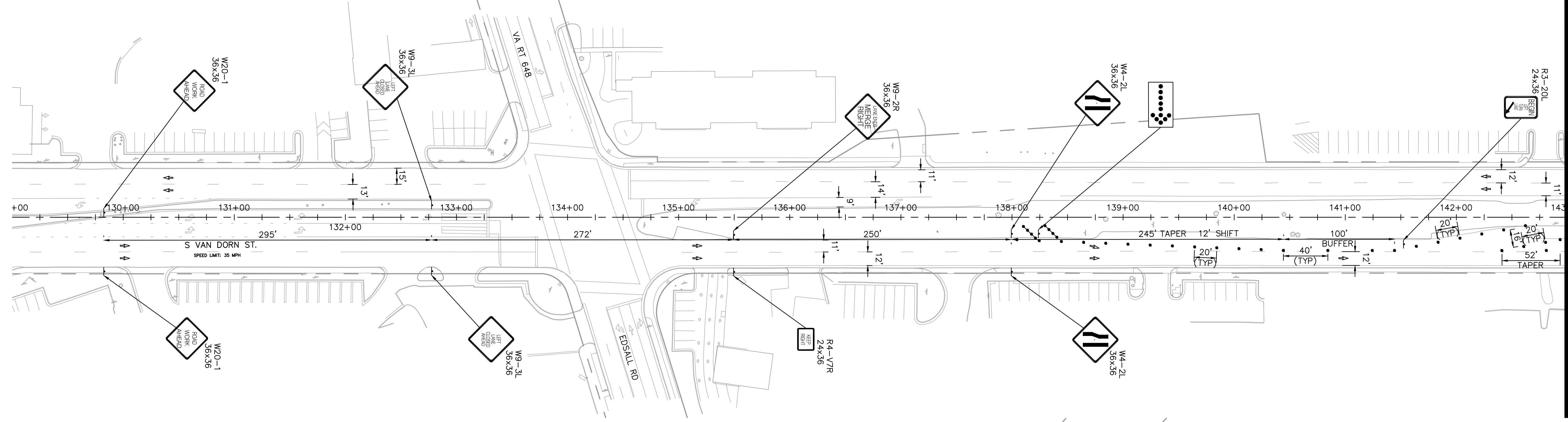
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DATE OF PLAN ISSUANCE:	N/A
CONSULTANT PROJECT ID:	N/A
DESIGNED BY:	MAT. DATE: 7/2/24
DRAWN BY:	AJB. DATE: 7/2/24
CHECKED BY:	EJD. DATE: 7/2/24
APPROVED BY:	DATE: 7/2/24

REVISIONS	DATE	DESCRIPTION

CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

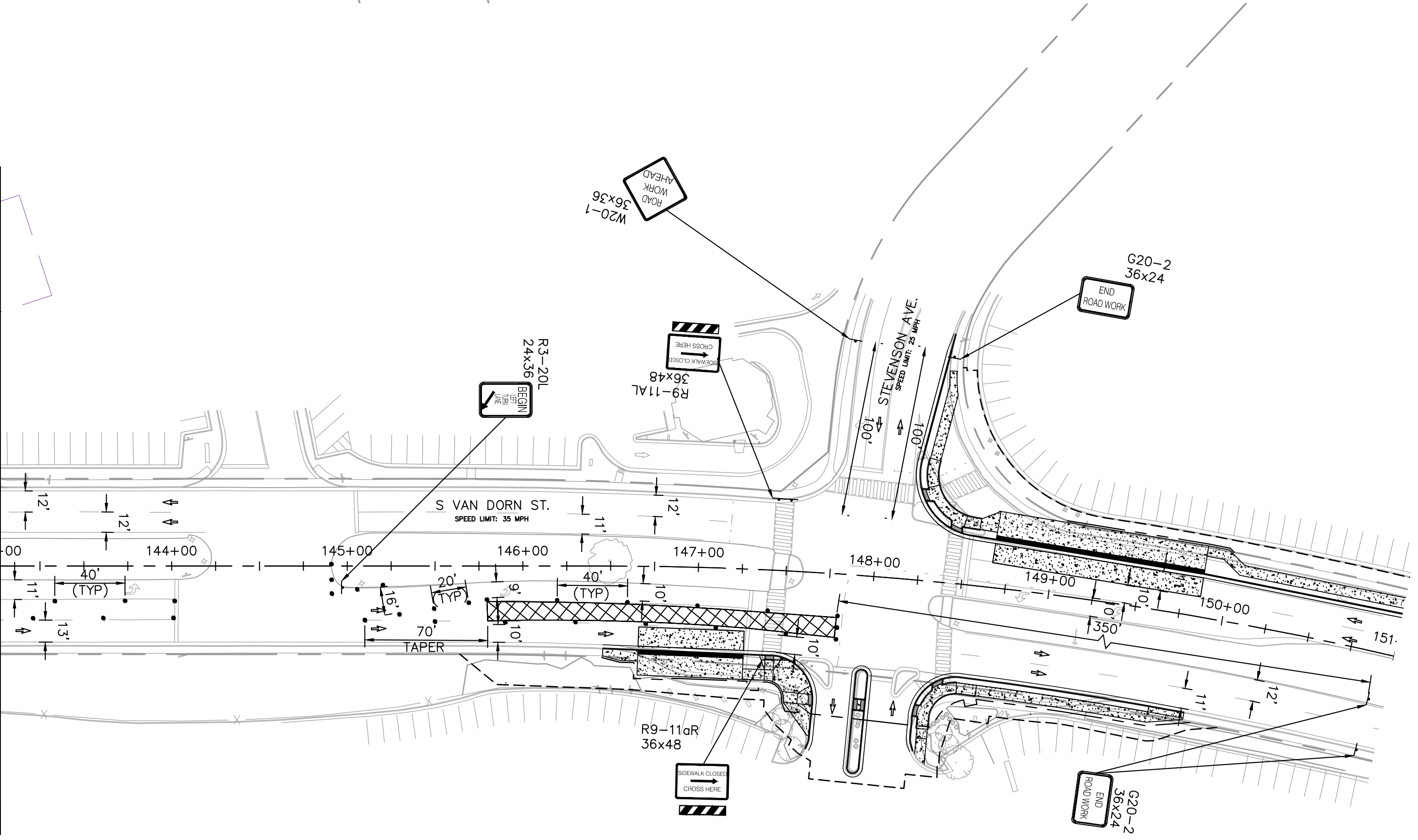


Plotted By: Phillips, Mark Sheet Set: West End Transitway - Phase 1 July 12, 2024 07:11:30am K:\NVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\MOT VAN DORN AND STEVENSON PH 5c.dwg



MATCHLINE STA. 143+00 SEE THIS SHEET

MATCHLINE STA. 143+00 SEE THIS SHEET



LEGEND

	WORK ZONE
	TEMPORARY TRAFFIC SIGN
	CHANNELIZING DEVICES
	GROUP 2: LONGITUDINAL CHANNELIZING DEVICES
	DIRECTION OF TRAFFIC
	EXISTING PAVEMENT MARKING
	TEMPORARY PAVEMENT MARKING
	TYPE III BARRICADE
	DIRECTIONAL ARROW BOARD

	EXIST. PROPERTY LINE
	PROP. PROPERTY LINE
	PROP. CONSTRUCTION EASEMENT

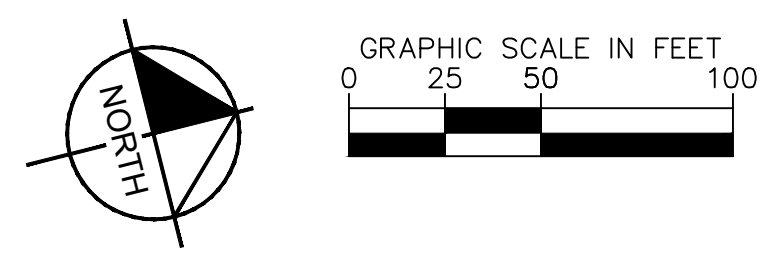
PAVEMENT MARKING LEGEND

	TYPE B, CLASS 1 WHITE 24" WIDTH
	TYPE B, CLASS 1 WHITE 12" WIDTH
	TYPE B, CLASS 1 DOUBLE YELLOW 4" WIDTH
	TYPE B, CLASS 1 WHITE 4" WIDTH
	TYPE B, CLASS 1 WHITE 8" WIDTH

- NOTES**
- CONTRACTOR TO MAINTAIN LOCAL ACCESS AT ALL TIMES
 - EXISTING PAVEMENT MARKINGS ARE APPROXIMATE AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO IMPLEMENTING ANY TRAFFIC CONTROL MEASURES
 - TEMPORARILY CLOSE BUS STOP. COORDINATE WITH DASH TO REDIRECT RIDERS OF ROUTE 31 TO THE STOP AT BEAUREGARD ST AND BRANCH AVE. COORDINATE WITH WMATA TO REDIRECT RIDERS TO OF ROUTE 7A TO THE STOP AT BEAUREGARD ST AND BRANCH AVE.
 - THE CONTRACTOR MUST KEEP LANE OPEN DURING THE PEAK HOURS.

- PROPOSED IMPROVEMENTS**
- MILL & OVERLAY FROM STA. 145+77.79 TO STA. 147+80.07

- SEQUENCE OF CONSTRUCTION**
- PHASE 5A
 - THE CONTRACTOR SHALL SET UP PHASE 1 EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
 - INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 26.2
 - MILL AND OVERLAY THE NORTHBOUND CENTER LANE OF VAN DORN STREET FROM STA. 145+77.79 TO STA. 147+80.07.



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

REVISIONS	DATE	DESCRIPTION

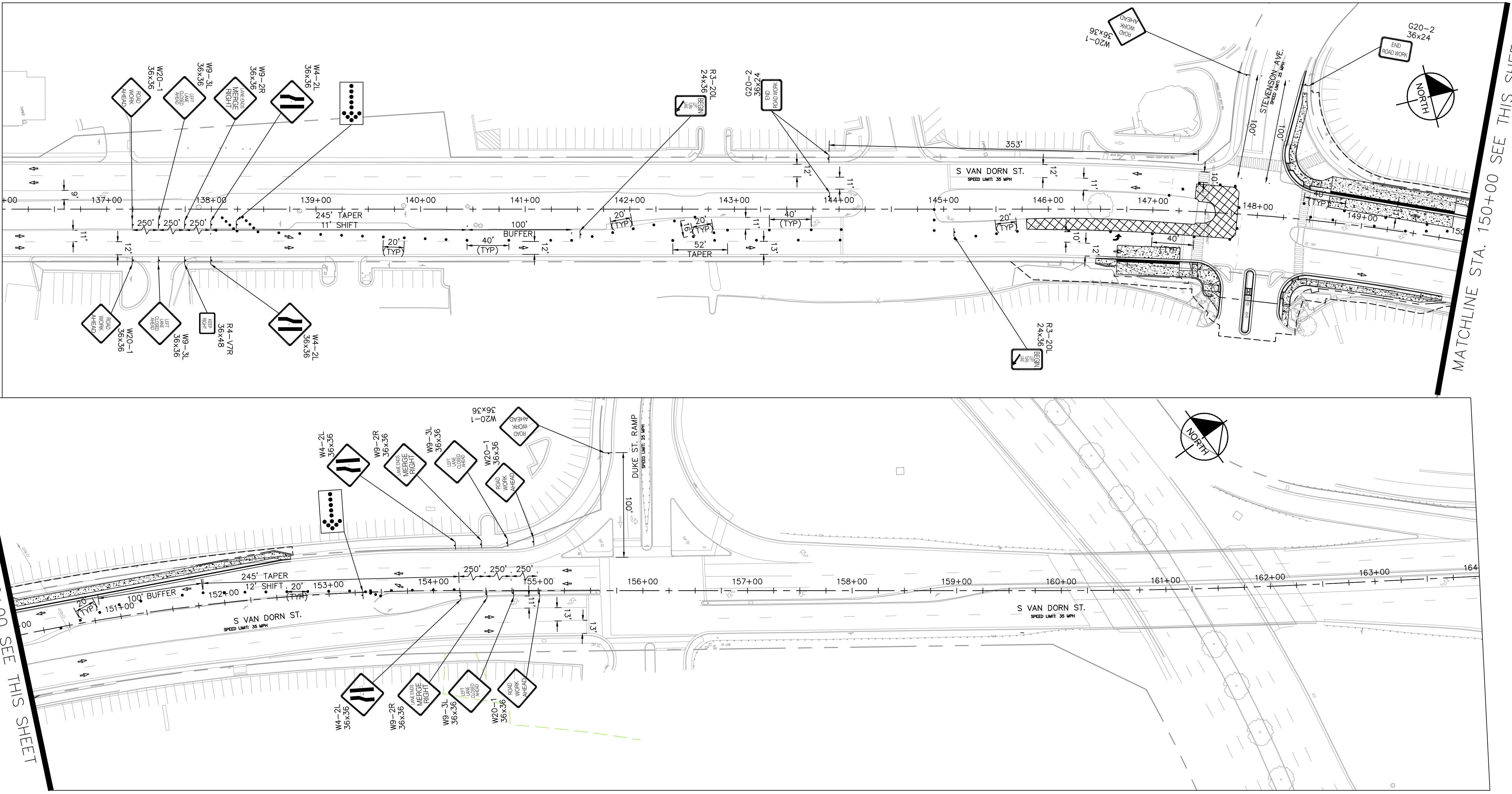
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 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: MAT. DATE: 7/2/24
 DRAWN BY: AUB. DATE: 7/2/24
 CHECKED BY: EJD. DATE: 7/2/24
 APPROVED BY: DATE: 7/2/24

MAINTENANCE OF TRAFFIC
PHASE 5A - S VAN DORN ST
AT STEVENSON AVE

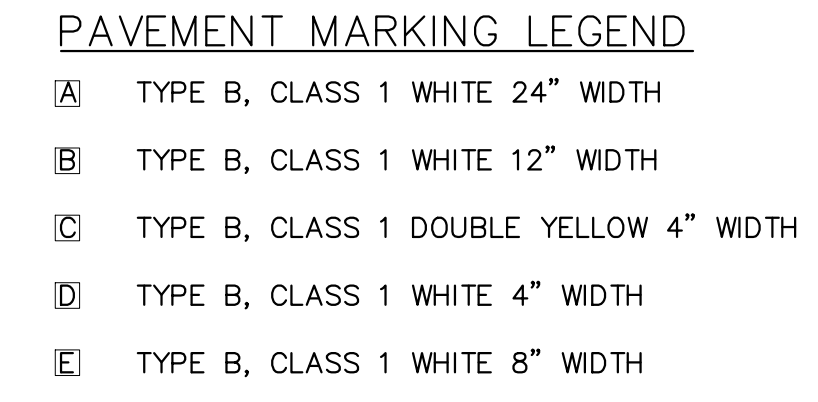
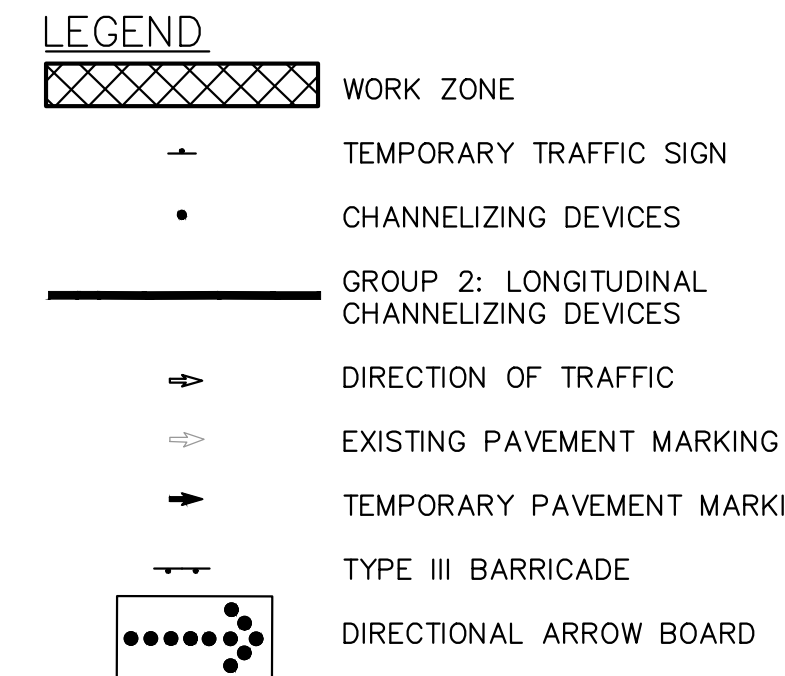
SHEET
 C-1303F
 SCALE 1" = 50'

Plotted By: Phillips, Mark Sheet Set: West End Transitway - Phase 1 July 12, 2024 07:12:07am K:\NVA_Transit\10104122_West End Transitway Design\CADD\PlanSheets\MOT VAN DORN AND STEVENSON PH 5b.dwg

MATCHLINE STA. 150+00 SEE THIS SHEET



MATCHLINE STA. 150+00 SEE THIS SHEET



NOTES

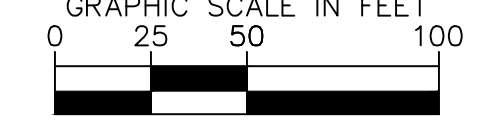
- CONTRACTOR TO MAINTAIN LOCAL ACCESS AT ALL TIMES
- EXISTING PAVEMENT MARKINGS ARE APPROXIMATE AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO IMPLEMENTING ANY TRAFFIC CONTROL MEASURES
- TEMPORARILY CLOSE BUS STOP. COORDINATE WITH DASH TO REDIRECT RIDERS OF ROUTE 31 TO THE STOP AT BEAUREGARD ST AND BRANCH AVE. COORDINATE WITH WMATA TO REDIRECT RIDERS TO OF ROUTE 7A TO THE STOP AT BEAUREGARD ST AND BRANCH AVE.
- THE CONTRACTOR MUST KEEP LANE OPEN DURING THE PEAK HOURS.

PROPOSED IMPROVEMENTS

- MILL & OVERLAY FROM FROM STA. 145+79.06 TO STA. 147+80.92

SEQUENCE OF CONSTRUCTION

- PHASE 5B SUBPHASE 1
 - THE CONTRACTOR SHALL SET UP PHASE 1 EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
 - INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 17.2 AND 27.2.
 - MILL AND OVERLAY THE NORTHBOUND INSIDE LANE AND LEFT TURN LANE OF VAN DORN STREET AND THE SOUTHBOUND INSIDE LANE AND LEFT TURN LANE OF VAN DORN STREET FROM STA. 145+79.06 TO STA. 147+80.92.



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

MAINTENANCE OF TRAFFIC
PHASE 5B: SUBPHASE 1 - S
VAN DORN ST AT STEVENSON
AVE

SHEET
 C-1303G
 SCALE 1" = 50'

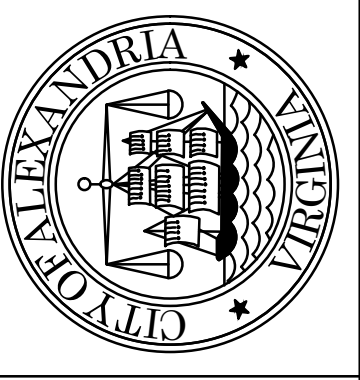
REVISIONS

DATE	DESCRIPTION

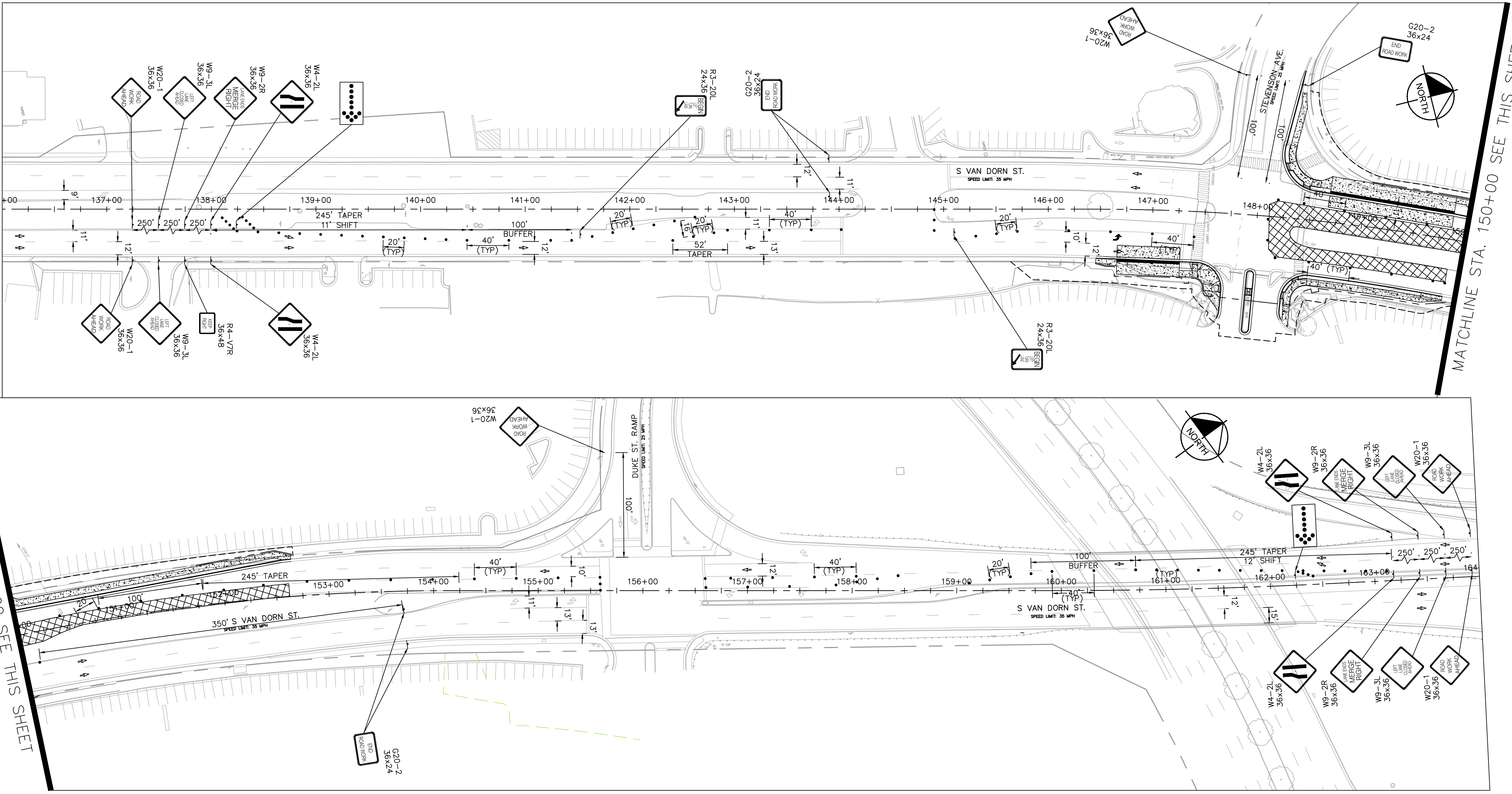
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 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: MAT DATE: 7/2/24
 DRAWN BY: AUB DATE: 7/2/24
 CHECKED BY: EJD DATE: 7/2/24
 APPROVED BY: DATE: 7/2/24

90% DESIGN PHASE

CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313



Plotted By: Phillips, Mark Sheet Set: West End Transitway - Phase 1 Layout: C-1304 MOT PHASE 1 July 17, 2024 07:12:41am K:\VVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\MOT VAN DORN AND STEVENSON PH 5b-2.dwg



MATCHLINE STA. 150+00 SEE THIS SHEET

MATCHLINE STA. 150+00 SEE THIS SHEET

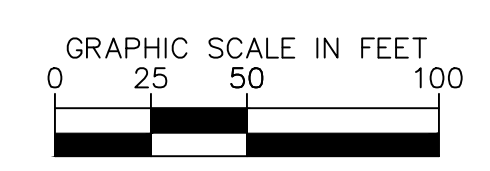
LEGEND

	WORK ZONE		EXIST. PROPERTY LINE
	TEMPORARY TRAFFIC SIGN		PROP. PROPERTY LINE
	CHANNELIZING DEVICES		PROP. CONSTRUCTION EASEMENT
	GROUP 2: LONGITUDINAL CHANNELIZING DEVICES	PAVEMENT MARKING LEGEND	
	DIRECTION OF TRAFFIC		TYPE B, CLASS 1 WHITE 24" WIDTH
	EXISTING PAVEMENT MARKING		TYPE B, CLASS 1 WHITE 12" WIDTH
	TEMPORARY PAVEMENT MARKING		TYPE B, CLASS 1 DOUBLE YELLOW 4" WIDTH
	TYPE III BARRICADE		TYPE B, CLASS 1 WHITE 4" WIDTH
	DIRECTIONAL ARROW BOARD		TYPE B, CLASS 1 WHITE 8" WIDTH

- NOTES**
- CONTRACTOR TO MAINTAIN LOCAL ACCESS AT ALL TIMES
 - EXISTING PAVEMENT MARKINGS ARE APPROXIMATE AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO IMPLEMENTING ANY TRAFFIC CONTROL MEASURES
 - TEMPORARILY CLOSE BUS STOP. COORDINATE WITH DASH TO REDIRECT RIDERS OF ROUTE 31 TO THE STOP AT BEAUREGARD ST AND BRANCH AVE. COORDINATE WITH WMATA TO REDIRECT RIDERS TO OF ROUTE 7A TO THE STOP AT BEAUREGARD ST AND BRANCH AVE.
 - THE CONTRACTOR MUST KEEP LANE OPEN DURING THE PEAK HOURS.

- PROPOSED IMPROVEMENTS**
- MILL & OVERLAY FROM FROM STA. 148+11.38 TO STA. 152+62.33

- SEQUENCE OF CONSTRUCTION**
- PHASE 5B SUBPHASE 2
 - THE CONTRACTOR SHALL SET UP PHASE 1 EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
 - INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 17.2 AND 27.2.
 - MILL AND OVERLAY THE NORTHBOUND INSIDE LANE AND LEFT TURN LANE OF VAN DORN STREET AND THE SOUTHBOUND INSIDE LANE AND LEFT TURN LANE OF VAN DORN STREET FROM 148+11.38 TO STA. 152+62.33.



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

MAINTENANCE OF TRAFFIC
 PHASE 5B: SUBPHASE 2 - S
 VAN DORN ST AT STEVENSON
 AVE

SHEET
 C-1303H
 SCALE 1" = 50'

90% DESIGN PHASE

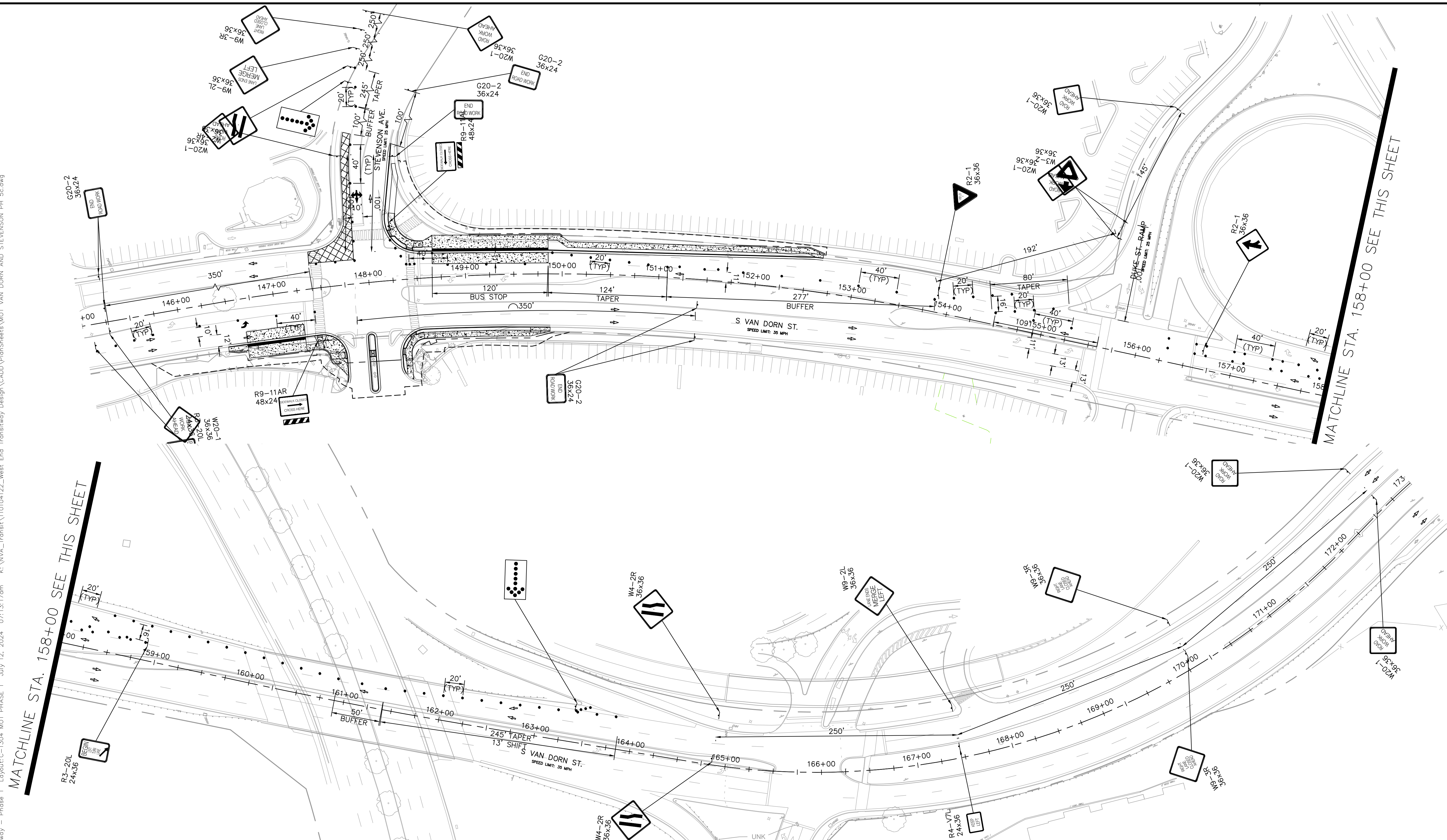
CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

REVISIONS	DATE	DESCRIPTION

ALEXANDRIA PROJECT NO.: 110104122
 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: MAT DATE: 7/3/24
 DRAWN BY: AUB DATE: 7/3/24
 CHECKED BY: EUD DATE: 7/3/24
 APPROVED BY: DATE: 7/3/24



Plotted By: Phillips, Mark Sheet Set: West End Transitway - Phase 1 Layout: C-1304 MOT PHASE 1 July 12, 2024 07:13:17am K:\NVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\MOT VAN DORN AND STEVENSON PH 5c.dwg



LEGEND

	WORK ZONE		EXIST. PROPERTY LINE
	TEMPORARY TRAFFIC SIGN		PROP. PROPERTY LINE
	CHANNELIZING DEVICES		PROP. CONSTRUCTION EASEMENT
	GROUP 2: LONGITUDINAL CHANNELIZING DEVICES	PAVEMENT MARKING LEGEND	
	DIRECTION OF TRAFFIC		TYPE B, CLASS 1 WHITE 24" WIDTH
	EXISTING PAVEMENT MARKING		TYPE B, CLASS 1 WHITE 12" WIDTH
	TEMPORARY PAVEMENT MARKING		TYPE B, CLASS 1 DOUBLE YELLOW 4" WIDTH
	TYPE III BARRICADE		TYPE B, CLASS 1 WHITE 4" WIDTH
	DIRECTIONAL ARROW BOARD		TYPE B, CLASS 1 WHITE 8" WIDTH

NOTES

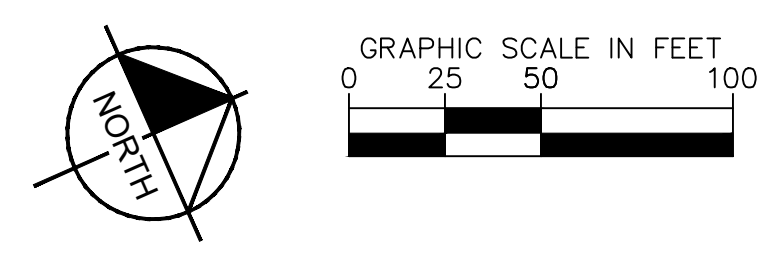
- CONTRACTOR TO MAINTAIN LOCAL ACCESS AT ALL TIMES
- EXISTING PAVEMENT MARKINGS ARE APPROXIMATE AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO IMPLEMENTING ANY TRAFFIC CONTROL MEASURES
- TEMPORARILY CLOSE BUS STOP. COORDINATE WITH DASH TO REDIRECT RIDERS OF ROUTE 31 TO THE STOP AT BEAUREGARD ST AND BRANCH AVE. COORDINATE WITH WMATA TO REDIRECT RIDERS TO OF ROUTE 7A TO THE STOP AT BEAUREGARD ST AND BRANCH AVE.
- THE CONTRACTOR MUST KEEP LANE OPEN DURING THE PEAK HOURS.

PROPOSED IMPROVEMENTS

- MILL & OVERLAY FROM STA. 147+40.50 TO STA. 147+86.45

SEQUENCE OF CONSTRUCTION

- PHASE 5C
 - THE CONTRACTOR SHALL SET UP PHASE 1 EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
 - INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 16.2.
 - MILL AND OVERLAY THE SOUTHBOUND OUTSIDE LANE OF VAN DORN STREET AND THE EASTBOUND OUTSIDE LANE OF STEVENSON AVENUE FROM STA. 147+40.50 TO STA. 147+86.45



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

REVISONS	DATE	DESCRIPTION

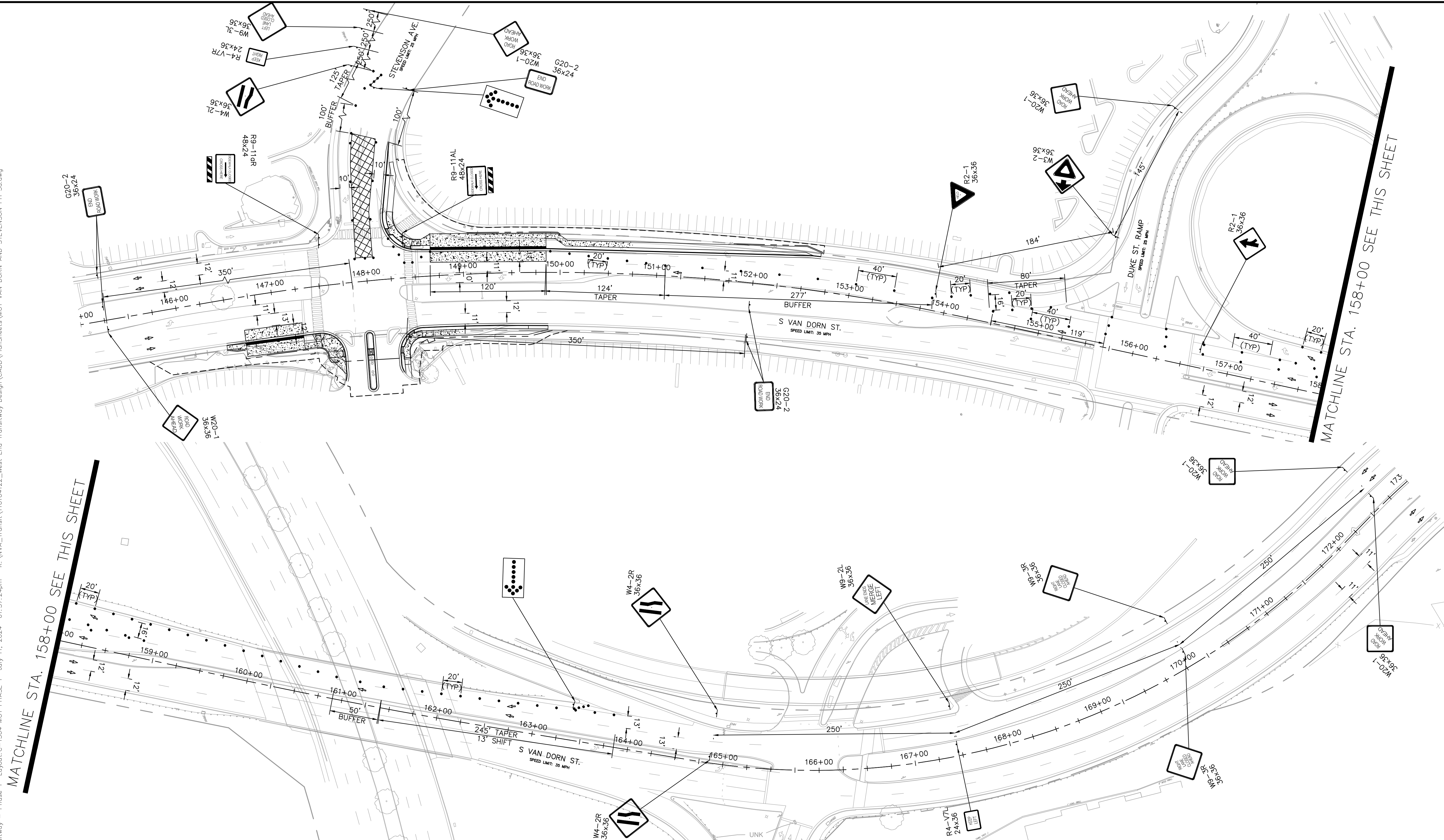
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 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: MAT DATE: 7/2/24
 DRAWN BY: AUB DATE: 7/2/24
 CHECKED BY: EJD DATE: 7/2/24
 APPROVED BY: DATE: 7/2/24

MAINTENANCE OF TRAFFIC
PHASE 5C - S VAN DORN ST
AT STEVENSON AVE

SHEET
C-1303J
SCALE 1" = 50'

90% DESIGN PHASE

Plotted By: Waring, Megan Sheet Set: West End Transitway - Phase 1 Layout: C-1303A MOT PHASE 1 July 11, 2024 01:37:24pm K:\NVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\MOT VAN DORN AND STEVENSON PH 5d.dwg



LEGEND

	WORK ZONE		EXIST. PROPERTY LINE
	TEMPORARY TRAFFIC SIGN		PROP. PROPERTY LINE
	CHANNELIZING DEVICES		PROP. CONSTRUCTION EASEMENT
	GROUP 2: LONGITUDINAL CHANNELIZING DEVICES	PAVEMENT MARKING LEGEND	
	DIRECTION OF TRAFFIC		TYPE B, CLASS 1 WHITE 24" WIDTH
	EXISTING PAVEMENT MARKING		TYPE B, CLASS 1 WHITE 12" WIDTH
	TEMPORARY PAVEMENT MARKING		TYPE B, CLASS 1 DOUBLE YELLOW 4" WIDTH
	TYPE III BARRICADE		TYPE B, CLASS 1 WHITE 4" WIDTH
	DIRECTIONAL ARROW BOARD		TYPE B, CLASS 1 WHITE 8" WIDTH

NOTES

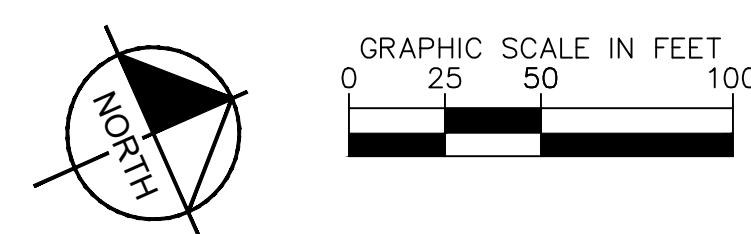
- CONTRACTOR TO MAINTAIN LOCAL ACCESS AT ALL TIMES
- EXISTING PAVEMENT MARKINGS ARE APPROXIMATE AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO IMPLEMENTING ANY TRAFFIC CONTROL MEASURES
- TEMPORARILY CLOSE BUS STOP. COORDINATE WITH DASH TO REDIRECT RIDERS OF ROUTE 31 TO THE STOP AT BEAUREGARD ST AND BRANCH AVE. COORDINATE WITH WMATA TO REDIRECT RIDERS TO OF ROUTE 7A TO THE STOP AT BEAUREGARD ST AND BRANCH AVE.
- THE CONTRACTOR MUST KEEP LANE OPEN DURING THE PEAK HOURS.

PROPOSED IMPROVEMENTS

- MILL & OVERLAY FROM 147+90.39 TO STA. 148+09.68

SEQUENCE OF CONSTRUCTION

- PHASE 5D
 - THE CONTRACTOR SHALL SET UP PHASE 1 EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
 - INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 17.2
 - MILL AND OVERLAY THE EASTBOUND AND WESTBOUND INSIDE LANES OF STEVENSON AVENUE FROM STA. 147+90.39 TO STA. 148+09.68



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

REVISIONS	DATE	DESCRIPTION

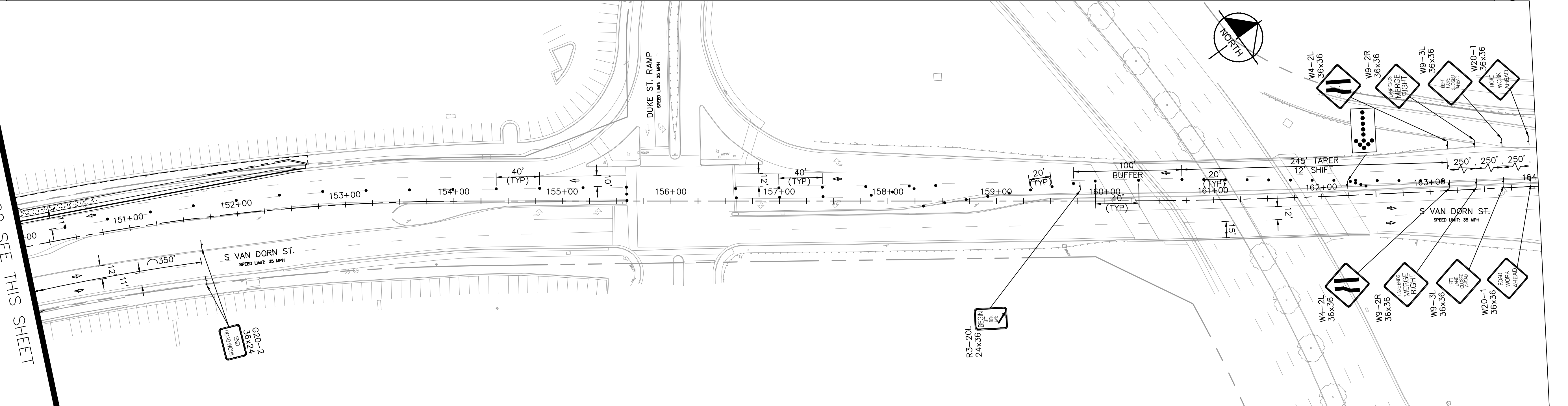
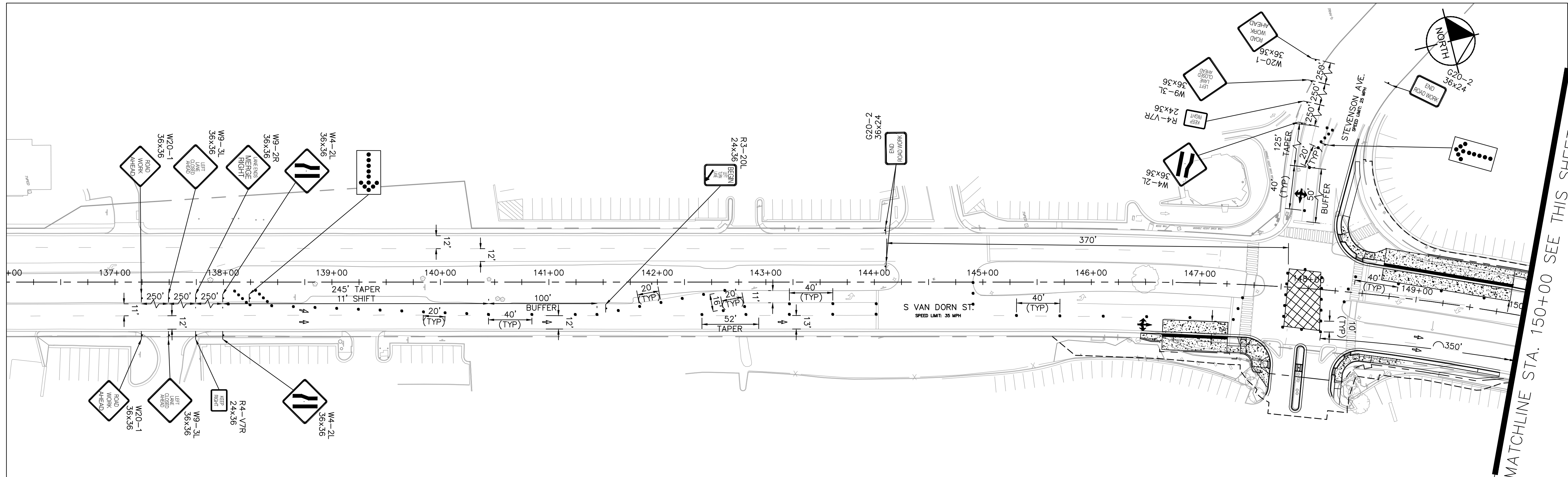
ALEXANDRIA PROJECT NO.: 110104122
 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: MAT DATE: 7/3/24
 DRAWN BY: AUB DATE: 7/3/24
 CHECKED BY: EJD DATE: 7/3/24
 APPROVED BY: DATE: 7/3/24

MAINTENANCE OF TRAFFIC
PHASE 5D - S VAN DORN ST
AT STEVENSON AVE

SHEET
 C-1303K
 SCALE 1" = 50'

Plotted By: Waring, Megan Sheet Set: West End Transitway - Phase 1 Layout: C-1304 MOT PHASE 1 July 11, 2024 01:37:53pm K:\NVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\MOT VAN DORN AND STEVENSON PH 5a.dwg

MATCHLINE STA. 150+00 SEE THIS SHEET

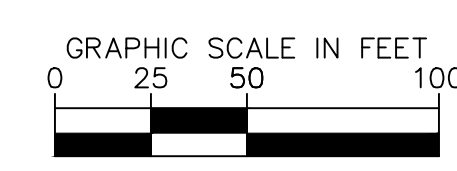


LEGEND	
	WORK ZONE
	EXIST. PROPERTY LINE
	TEMPORARY TRAFFIC SIGN
	CHANNELIZING DEVICES
	GROUP 2: LONGITUDINAL CHANNELIZING DEVICES
	DIRECTION OF TRAFFIC
	EXISTING PAVEMENT MARKING
	TEMPORARY PAVEMENT MARKING
	TYPE III BARRICADE
	DIRECTIONAL ARROW BOARD
	PROP. PROPERTY LINE
	PROP. CONSTRUCTION EASEMENT
PAVEMENT MARKING LEGEND	
	TYPE B, CLASS 1 WHITE 24" WIDTH
	TYPE B, CLASS 1 WHITE 12" WIDTH
	TYPE B, CLASS 1 DOUBLE YELLOW 4" WIDTH
	TYPE B, CLASS 1 WHITE 4" WIDTH
	TYPE B, CLASS 1 WHITE 8" WIDTH

- NOTES**
- CONTRACTOR TO MAINTAIN LOCAL ACCESS AT ALL TIMES
 - EXISTING PAVEMENT MARKINGS ARE APPROXIMATE AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO IMPLEMENTING ANY TRAFFIC CONTROL MEASURES
 - TEMPORARILY CLOSE BUS STOP. COORDINATE WITH DASH TO REDIRECT RIDERS OF ROUTE 31 TO THE STOP AT BEAUREGARD ST AND BRANCH AVE. COORDINATE WITH WMATA TO REDIRECT RIDERS TO OF ROUTE 7A TO THE STOP AT BEAUREGARD ST AND BRANCH AVE.
 - THE CONTRACTOR MUST KEEP LANE OPEN DURING THE PEAK HOURS.

- PROPOSED IMPROVEMENTS**
- MILL & OVERLAY FROM STA. 147+80.92 TO STA. 148+11.38

- SEQUENCE OF CONSTRUCTION**
- PHASE 5E
 - THE CONTRACTOR SHALL SET UP PHASE 1 EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
 - INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 17.2
 - MILL AND OVERLAY THE INTERSECTION OF VAN DORN STREET AND STEVENSON AVENUE FROM STA. 147+80.92 TO STA. 148+11.38.



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

MAINTENANCE OF TRAFFIC
PHASE 5E - S VAN DORN ST
AT STEVENSON AVE

SHEET
 C-1303L
 SCALE 1" = 50'

REVISIONS	DATE	DESCRIPTION

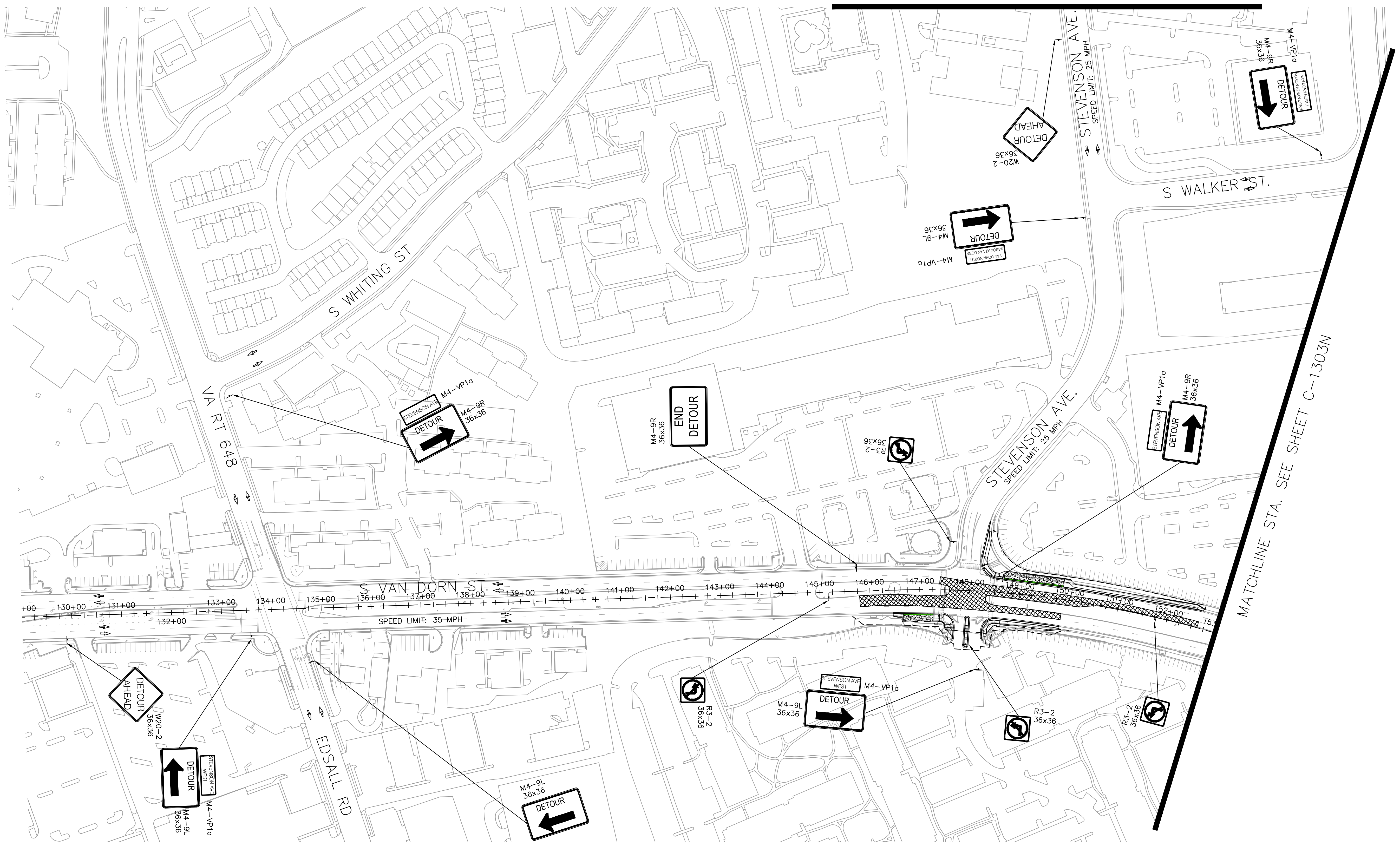
ALEXANDRIA PROJECT NO.: 110104122
 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: MAT DATE: 7/3/24
 DRAWN BY: AUB DATE: 7/3/24
 CHECKED BY: EJD DATE: 7/3/24
 APPROVED BY: DATE: 7/3/24

CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313



Plotted By: Worring, Megan Sheet Set: West End Transitway - Phase 1 Layout: C-1302 MOT DETOUR PLAN July 11, 2024 01:38:27pm K:\NVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\MOT VAN DORN AT STEVENSON DETOUR PLAN.dwg

MATCHLINE STA. SEE SHEET C-1303P

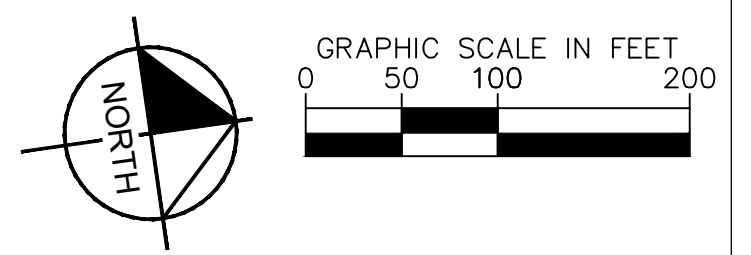


LEGEND

	WORK ZONE		EXIST. PROPERTY LINE
	TEMPORARY TRAFFIC SIGN		PROP. PROPERTY LINE
	CHANNELIZING DEVICES		PROP. CONSTRUCTION EASEMENT
	GROUP 2: LONGITUDINAL CHANNELIZING DEVICES	PAVEMENT MARKING LEGEND	
	DIRECTION OF TRAFFIC		TYPE B, CLASS 1 WHITE 24" WIDTH
	EXISTING PAVEMENT MARKING		TYPE B, CLASS 1 WHITE 12" WIDTH
	TEMPORARY PAVEMENT MARKING		TYPE B, CLASS 1 DOUBLE YELLOW 4" WIDTH
	TYPE III BARRICADE		TYPE B, CLASS 1 WHITE 4" WIDTH
	DIRECTIONAL ARROW BOARD		TYPE B, CLASS 1 WHITE 8" WIDTH

- NOTES**
- CONTRACTOR TO MAINTAIN LOCAL ACCESS AT ALL TIMES
 - EXISTING PAVEMENT MARKINGS ARE APPROXIMATE AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO IMPLEMENTING ANY TRAFFIC CONTROL MEASURES
 - TEMPORARILY CLOSE BUS STOP. COORDINATE WITH DASH TO REDIRECT RIDERS OF ROUTE 31 TO THE STOP AT BEAUREGARD ST AND BRANCH AVE. COORDINATE WITH WMATA TO REDIRECT RIDERS TO OF ROUTE 7A TO THE STOP AT BEAUREGARD ST AND BRANCH AVE.
 - THE CONTRACTOR MUST KEEP LANE OPEN DURING THE PEAK HOURS.
 - THIS DETOUR PLAN MAY BE USED IN LIEU OF MOT PLANS C-1303A - 1303L WITH APPROVAL FROM THE CITY OF ALEXANDRIA.

PROPOSED IMPROVEMENTS SEQUENCE OF CONSTRUCTION



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

MAINTENANCE OF TRAFFIC DETOUR - S VAN DORN ST AT STEVENSON AVE

SHEET C-1303M
SCALE 1" = 25'

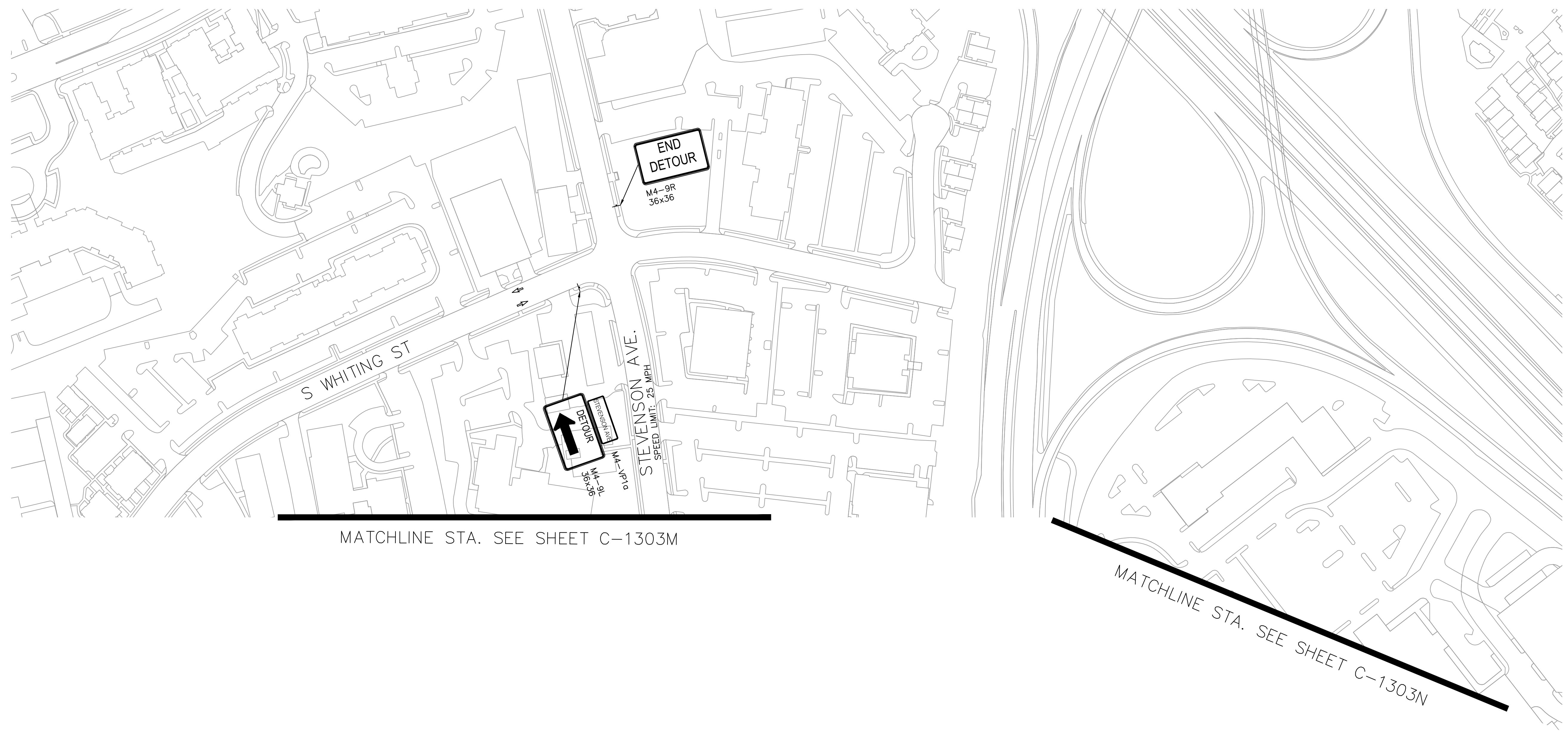
90% DESIGN PHASE

CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

REVISIONS	DESCRIPTION
DATE	
BY	

ALEXANDRIA PROJECT NO.:	110104122
DATE OF PLAN ISSUANCE:	N/A
CONSULTANT PROJECT ID.:	N/A
DESIGNED BY:	MAT. DATE: 5/4/23
DRAWN BY:	AJB. DATE: 5/4/23
CHECKED BY:	EJD. DATE: 5/4/23
APPROVED BY:	DATE: 5/4/23

Plotted By: Waring, Megan Sheet: West End Transitway - Phase 1 Layout: C-1302 MOT DETOUR PLAN (3) July 11, 2024 01:36:45pm K:\NVA_Transit\110104122_West_End_Transitway_Design\CADD\PlanSheets\MOT_VAN_DORN_AT_STEVENSON_DETOUR_PLAN.dwg



LEGEND

	WORK ZONE
	TEMPORARY TRAFFIC SIGN
	CHANNELIZING DEVICES
	GROUP 2: LONGITUDINAL CHANNELIZING DEVICES
	DIRECTION OF TRAFFIC
	EXISTING PAVEMENT MARKING
	TEMPORARY PAVEMENT MARKING
	TYPE III BARRICADE
	DIRECTIONAL ARROW BOARD

	EXIST. PROPERTY LINE
	PROP. PROPERTY LINE
	PROP. CONSTRUCTION EASEMENT

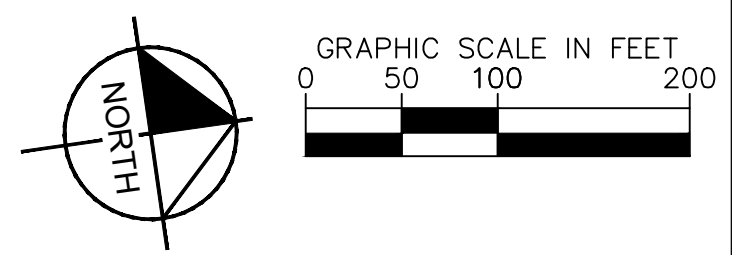
PAVEMENT MARKING LEGEND

	TYPE B, CLASS 1 WHITE 24" WIDTH
	TYPE B, CLASS 1 WHITE 12" WIDTH
	TYPE B, CLASS 1 DOUBLE YELLOW 4" WIDTH
	TYPE B, CLASS 1 WHITE 4" WIDTH
	TYPE B, CLASS 1 WHITE 8" WIDTH

- NOTES**
- CONTRACTOR TO MAINTAIN LOCAL ACCESS AT ALL TIMES
 - EXISTING PAVEMENT MARKINGS ARE APPROXIMATE AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO IMPLEMENTING ANY TRAFFIC CONTROL MEASURES
 - TEMPORARILY CLOSE BUS STOP. COORDINATE WITH DASH TO REDIRECT RIDERS OF ROUTE 31 TO THE STOP AT BEAUREGARD ST AND BRANCH AVE. COORDINATE WITH WMATA TO REDIRECT RIDERS TO OF ROUTE 7A TO THE STOP AT BEAUREGARD ST AND BRANCH AVE.
 - THE CONTRACTOR MUST KEEP LANE OPEN DURING THE PEAK HOURS.
 - THIS DETOUR PLAN MAY BE USED IN LIEU OF MOT PLANS C-1303A - 1303L WITH APPROVAL FROM THE CITY OF ALEXANDRIA.

PROPOSED IMPROVEMENTS

SEQUENCE OF CONSTRUCTION



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS 90% DESIGN PHASE



CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

REVISIONS	DATE	DESCRIPTION








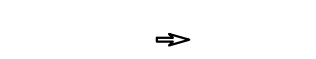





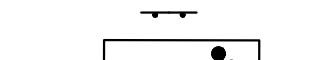



ALEXANDRIA PROJECT NO.:	110104122
DATE OF PLAN ISSUANCE:	N/A
CONSULTANT PROJECT ID.:	N/A
DESIGNED BY:	MAT. DATE: 5/4/23
DRAWN BY:	AJB. DATE: 5/4/23
CHECKED BY:	EJD. DATE: 5/4/23
APPROVED BY:	DATE: 5/4/23

**MAINTENANCE OF TRAFFIC
 DETOUR - S VAN DORN ST
 AT STEVENSON AVE**

SHEET
 C-1303P
 SCALE 1" = 25'

Plotted By: Worring, Megan Sheet Set: West End Transitway - Phase 1 Layout: C-1306 MOT PHASE 2a July 11, 2024 01:39:44pm K:\VVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\MOT VAN DORN AND HOLMES RUN PH2a.dwg

LEGEND

	WORK ZONE		EXIST. PROPERTY LINE
	TEMPORARY TRAFFIC SIGN		PROP. PROPERTY LINE
	CHANNELIZING DEVICES		PROP. CONSTRUCTION EASEMENT
	GROUP 2: LONGITUDINAL CHANNELIZING DEVICES	PAVEMENT MARKING LEGEND	
	DIRECTION OF TRAFFIC		TYPE B, CLASS 1 WHITE 24" WIDTH
	EXISTING PAVEMENT MARKING		TYPE B, CLASS 1 WHITE 12" WIDTH
	TEMPORARY PAVEMENT MARKING		TYPE B, CLASS 1 DOUBLE YELLOW 4" WIDTH
	TYPE III BARRICADE		TYPE B, CLASS 1 WHITE 4" WIDTH
	DIRECTIONAL ARROW BOARD		TYPE B, CLASS 1 WHITE 8" WIDTH

NOTES

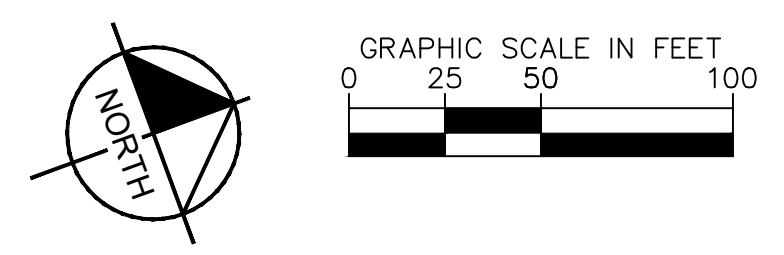
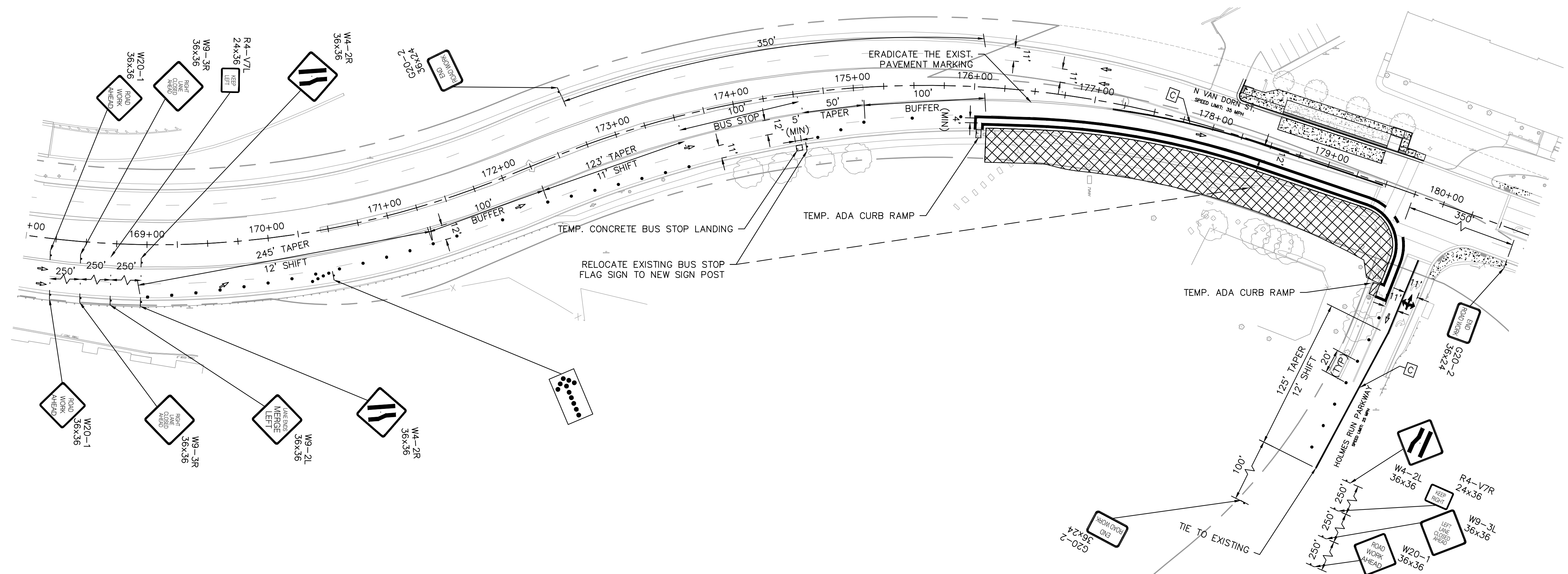
- CONTRACTOR TO MAINTAIN LOCAL ACCESS AT ALL TIMES
- EXISTING PAVEMENT MARKINGS ARE APPROXIMATE AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO IMPLEMENTING ANY TRAFFIC CONTROL MEASURES
- TEMPORARILY CLOSE BUS STOP. COORDINATE WITH DASH TO REDIRECT RIDERS OF ROUTE 31 TO THE STOP AT BEAUREGARD ST AND BRANCH AVE. COORDINATE WITH WMATA TO REDIRECT RIDERS TO OF ROUTE 7A TO THE STOP AT BEAUREGARD ST AND BRANCH AVE.
- THE CONTRACTOR MUST KEEP LANE OPEN DURING THE PEAK HOURS.

PROPOSED IMPROVEMENTS

- SIDEWALK FROM STA. 176+11.44 TO STA. 179+72.28
- PLATFORM FROM STA. 176+11.44 TO STA. 179+72.28
- CURB AND GUTTER FROM STA. 176+11.44 TO STA. 179+72.28
- MILL & OVERLAY FROM STA. STA. 176+11.44 TO STA. 179+72.28

SEQUENCE OF CONSTRUCTION

- PHASE 2A
 - THE CONTRACTOR SHALL SET UP PHASE 1 EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
 - INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 16.2 AND 41.2.
 - CONSTRUCT THE SIDEWALK, PLATFORM, AND CURB AND GUTTER, FOR THE NORTHBOUND BUS STATIONS OF VAN DORN STREET FROM STA. 176+11.44 TO STA. 179+72.28.
 - TEMPORARY ADA CURB RAMPS ARE TO REMAIN FOR THE SUBSEQUENT PHASES.



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

**MAINTENANCE OF TRAFFIC
PHASE 2A - N VAN DORN ST
AT HOLMES RUN**

SHEET
C-1304B
SCALE 1" = 50'

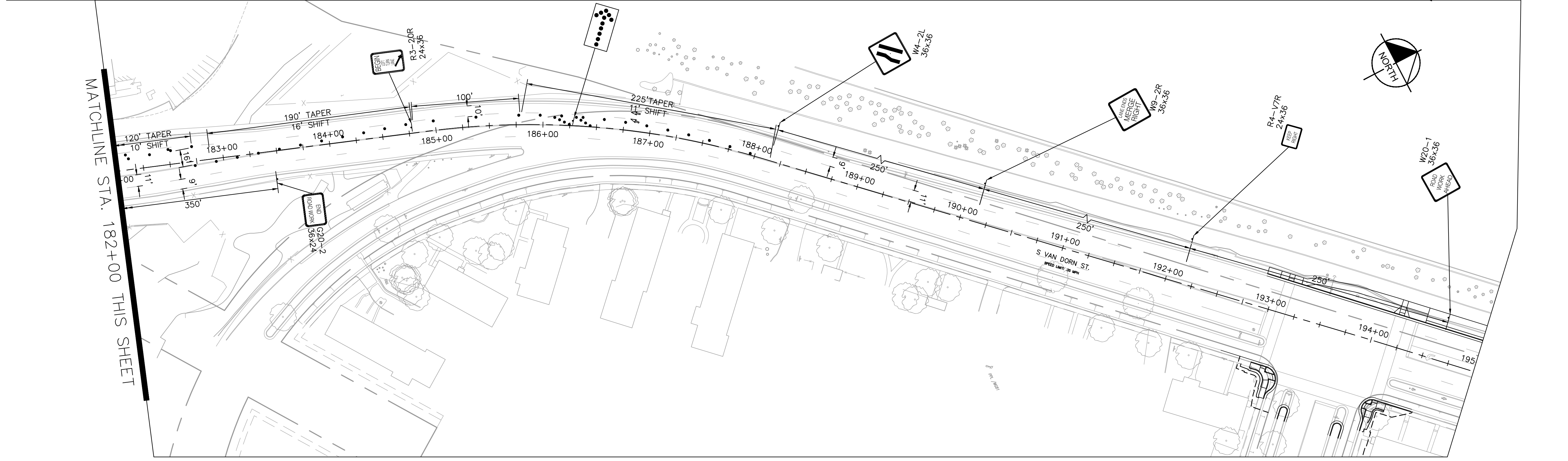
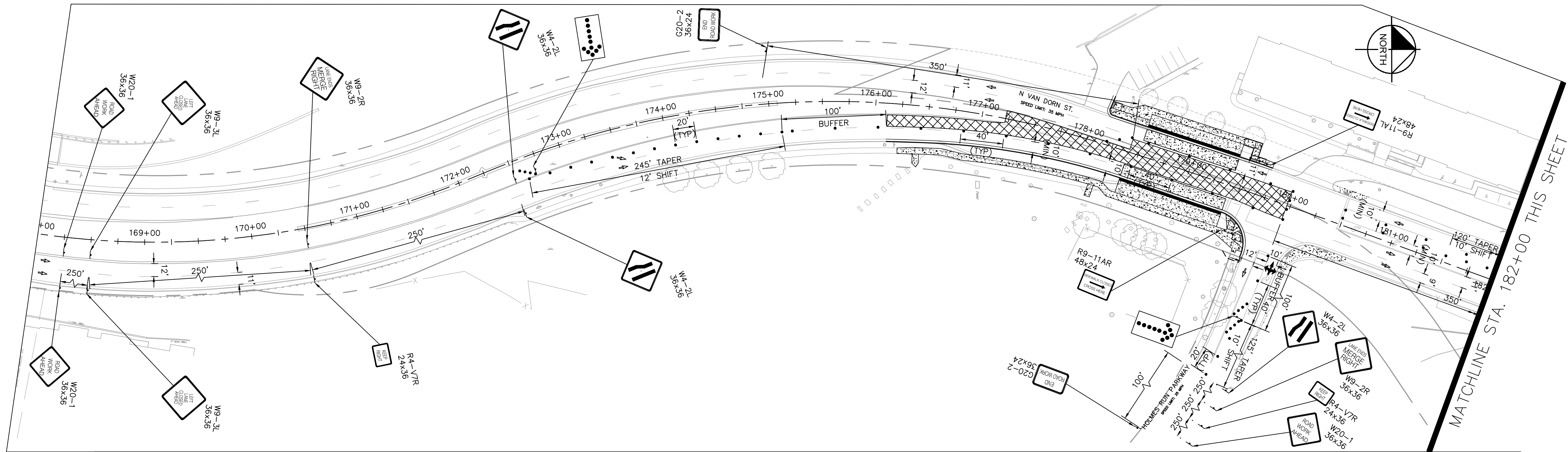
REVISIONS	DATE	DESCRIPTION

CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313



ALEXANDRIA PROJECT NO.: 110104122
DATE OF PLAN ISSUANCE: N/A
CONSULTANT PROJECT ID: N/A
DESIGNED BY: MAT DATE: 4/5/24
DRAWN BY: AUB DATE: 4/5/24
CHECKED BY: EJD DATE: 4/5/24
APPROVED BY: _____ DATE: _____

Plotted By: Waring, Megan Sheet Set: West End Transitway - Phase 1 Layout: C-1304 MOT PHASE 3 July 11, 2024 01:40:40pm K:\NVA_Transitway\110104122_West End Transitway Design\CADD\PlanSheets\MOT VAN DORN AND HOLMES RUN PH3.dwg



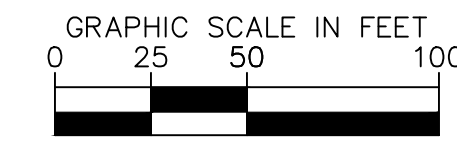
LEGEND

	WORK ZONE		EXIST. PROPERTY LINE
	TEMPORARY TRAFFIC SIGN		PROP. PROPERTY LINE
	CHANNELIZING DEVICES		PROP. CONSTRUCTION EASEMENT
	GROUP 2: LONGITUDINAL CHANNELIZING DEVICES	PAVEMENT MARKING LEGEND	
	DIRECTION OF TRAFFIC		TYPE B, CLASS 1 WHITE 24" WIDTH
	EXISTING PAVEMENT MARKING		TYPE B, CLASS 1 WHITE 12" WIDTH
	TEMPORARY PAVEMENT MARKING		TYPE B, CLASS 1 DOUBLE YELLOW 4" WIDTH
	TYPE III BARRICADE		TYPE B, CLASS 1 WHITE 4" WIDTH
	DIRECTIONAL ARROW BOARD		TYPE B, CLASS 1 WHITE 8" WIDTH

- NOTES**
- CONTRACTOR TO MAINTAIN LOCAL ACCESS AT ALL TIMES
 - EXISTING PAVEMENT MARKINGS ARE APPROXIMATE AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO IMPLEMENTING ANY TRAFFIC CONTROL MEASURES
 - TEMPORARILY CLOSE BUS STOP. COORDINATE WITH DASH TO REDIRECT RIDERS OF ROUTE 31 TO THE STOP AT BEAUREGARD ST AND BRANCH AVE. COORDINATE WITH WMATA TO REDIRECT RIDERS TO OF ROUTE 7A TO THE STOP AT BEAUREGARD ST AND BRANCH AVE.
 - THE CONTRACTOR MUST KEEP LANE OPEN DURING THE PEAK HOURS.

- PROPOSED IMPROVEMENTS**
- MILL & OVERLAY FROM STA. 176+11.44 TO STA. 179+96.96

- SEQUENCE OF CONSTRUCTION**
- PHASE 3
 - THE CONTRACTOR SHALL SET UP PHASE 1 EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
 - INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 17.2 AND 27.2.
 - MILL AND OVERLAY THE NORTHBOUND INSIDE LANE OF VAN DORN STREET AND THE SOUTHBOUND INSIDE LANE OF VAN DORN STREET FROM STA. 176+11.44 TO STA. 179+96.96.



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

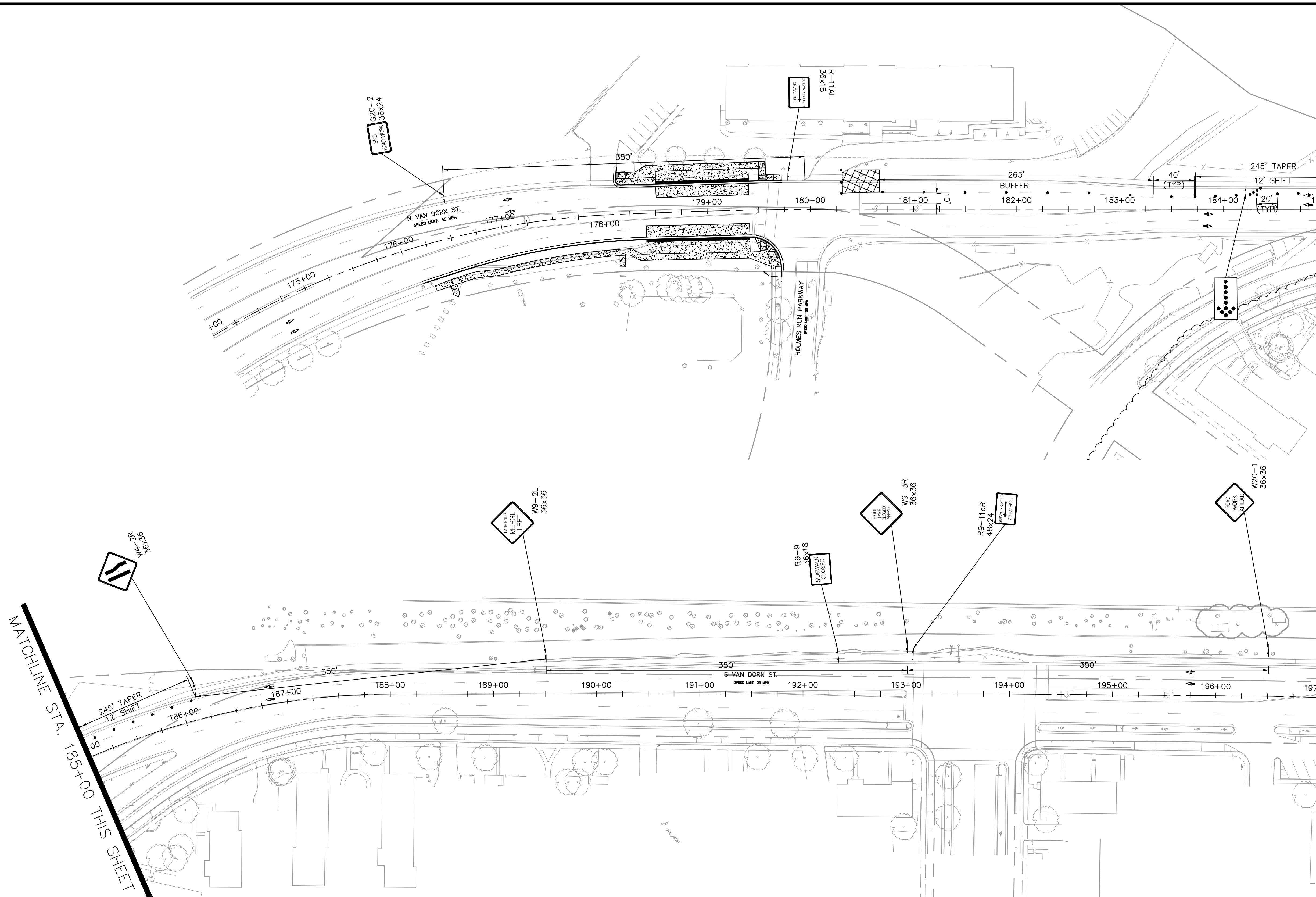
REVISIONS	DATE	DESCRIPTION

ALEXANDRIA PROJECT NO.: 110104122
DATE OF PLAN ISSUANCE: N/A
CONSULTANT PROJECT ID: N/A
DESIGNED BY: MAT DATE: 4/5/24
DRAWN BY: AUB DATE: 4/5/24
CHECKED BY: EJD DATE: 4/5/24
APPROVED BY: _____ DATE: _____

**MAINTENANCE OF TRAFFIC
PHASE 3 - N VAN DORN ST
AT HOLMES RUN**

SHEET
C-1304D
SCALE 1" = 50'

Plotted By: Waring, Megan Sheet Set: West End Transitway - Phase 1 Layout: C-1306 MOT PHASE 1 July 11, 2024 01:41:10pm K:\NVA_Transit\110104122_West_End_Transitway_Design\CADD\PlanSheets\MOT VAN DORN AND HOLMES RUN PH4.dwg



MATCHLINE STA. 185+00 THIS SHEET

LEGEND

	WORK ZONE
	TEMPORARY TRAFFIC SIGN
	CHANNELIZING DEVICES
	GROUP 2: LONGITUDINAL CHANNELIZING DEVICES
	DIRECTION OF TRAFFIC
	EXISTING PAVEMENT MARKING
	TEMPORARY PAVEMENT MARKING
	TYPE III BARRICADE
	DIRECTIONAL ARROW BOARD

	EXIST. PROPERTY LINE
	PROP. PROPERTY LINE
	PROP. CONSTRUCTION EASEMENT

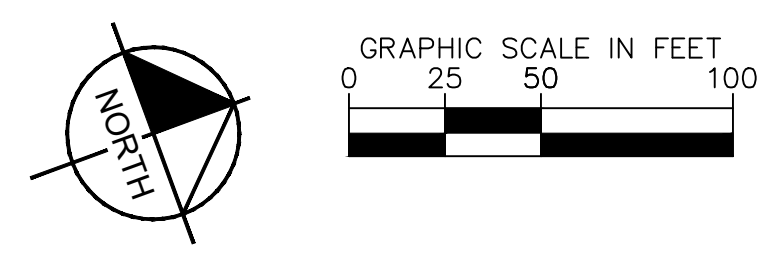
PAVEMENT MARKING LEGEND

	TYPE B, CLASS 1 WHITE 24" WIDTH
	TYPE B, CLASS 1 WHITE 12" WIDTH
	TYPE B, CLASS 1 DOUBLE YELLOW 4" WIDTH
	TYPE B, CLASS 1 WHITE 4" WIDTH
	TYPE B, CLASS 1 WHITE 8" WIDTH

- NOTES**
- CONTRACTOR TO MAINTAIN LOCAL ACCESS AT ALL TIMES
 - EXISTING PAVEMENT MARKINGS ARE APPROXIMATE AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO IMPLEMENTING ANY TRAFFIC CONTROL MEASURES
 - TEMPORARILY CLOSE BUS STOP. COORDINATE WITH DASH TO REDIRECT RIDERS OF ROUTE 31 TO THE STOP AT BEAUREGARD ST AND BRANCH AVE. COORDINATE WITH WMATA TO REDIRECT RIDERS TO OF ROUTE 7A TO THE STOP AT BEAUREGARD ST AND BRANCH AVE.
 - THE CONTRACTOR MUST KEEP LANE OPEN DURING THE PEAK HOURS.

- PROPOSED IMPROVEMENTS**
- SIDEWALK FROM STA. 180+30.49 TO STA. 180+67.87
 - CURB AND GUTTER FROM STA 180+30.49 TO STA. 180+67.87
 - MILL & OVERLAY FROM STA. 180+30.49 TO STA. 180+67.87

- SEQUENCE OF CONSTRUCTION**
- PHASE 4
 - THE CONTRACTOR SHALL SET UP PHASE 1 EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
 - INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 16.2.
 - CONSTRUCT THE SIDEWALK, CURB AND GUTTER, AND MILL AND OVERLAY THE SOUTHBOUND OUTSIDE LANE OF VAN DORN STREET THROUGH THE INTERSECTION WITH HOLMES RUN PARKWAY FROM STA. 180+30.49 TO STA. 180+67.87.



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

REVISIONS	DATE	DESCRIPTION

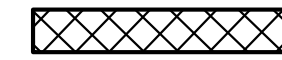






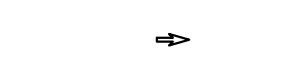

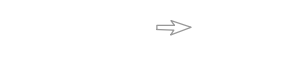

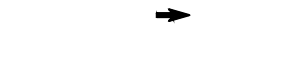

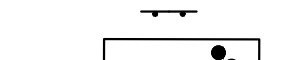



ALEXANDRIA PROJECT NO.: 110104122
DATE OF PLAN ISSUANCE: N/A
CONSULTANT PROJECT ID: N/A
DESIGNED BY: VALUE DATE: 4/5/24
DRAWN BY: VALUE DATE: 4/5/24
CHECKED BY: VALUE DATE: 4/5/24
APPROVED BY: _____ DATE: _____

**MAINTENANCE OF TRAFFIC
PHASE 4 - N VAN DORN ST
AT HOLMES RUN**

SHEET
C-1304E
SCALE 1" = 50'

Plotted By: Waring, Megan Sheet: West End Transitway - Phase 1 Layout: C-1306 MOT PHASE 3 July 11, 2024 01:41:42pm K:\NVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\MOT VAN DORN AND HOLMES RUN PH4B.dwg

LEGEND

	WORK ZONE		EXIST. PROPERTY LINE
	TEMPORARY TRAFFIC SIGN		PROP. PROPERTY LINE
	CHANNELIZING DEVICES		PROP. CONSTRUCTION EASEMENT
	GROUP 2: LONGITUDINAL CHANNELIZING DEVICES	PAVEMENT MARKING LEGEND	
	DIRECTION OF TRAFFIC		TYPE B, CLASS 1 WHITE 24" WIDTH
	EXISTING PAVEMENT MARKING		TYPE B, CLASS 1 WHITE 12" WIDTH
	TEMPORARY PAVEMENT MARKING		TYPE B, CLASS 1 DOUBLE YELLOW 4" WIDTH
	TYPE III BARRICADE		TYPE B, CLASS 1 WHITE 4" WIDTH
	DIRECTIONAL ARROW BOARD		TYPE B, CLASS 1 WHITE 8" WIDTH

NOTES

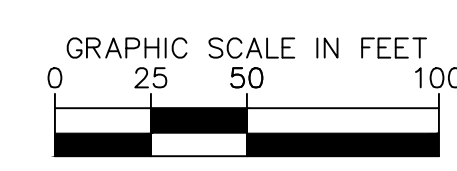
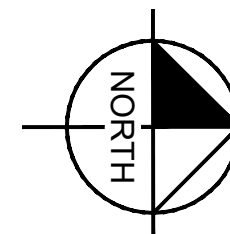
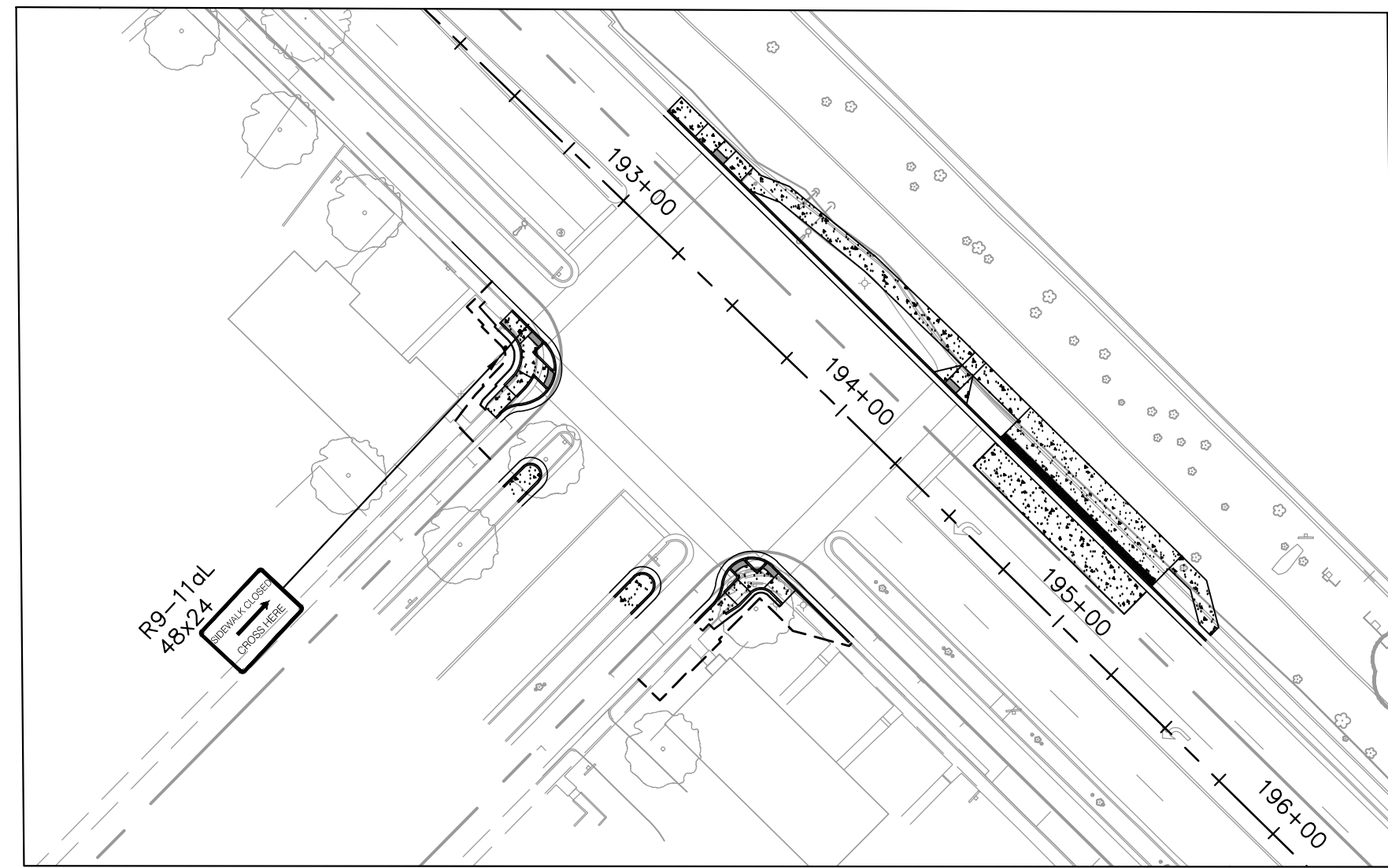
- CONTRACTOR TO MAINTAIN LOCAL ACCESS AT ALL TIMES
- EXISTING PAVEMENT MARKINGS ARE APPROXIMATE AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO IMPLEMENTING ANY TRAFFIC CONTROL MEASURES
- TEMPORARILY CLOSE BUS STOP. COORDINATE WITH DASH TO REDIRECT RIDERS OF ROUTE 31 TO THE STOP AT BEAUREGARD ST AND BRANCH AVE. COORDINATE WITH WMATA TO REDIRECT RIDERS TO OF ROUTE 7A TO THE STOP AT BEAUREGARD ST AND BRANCH AVE.
- THE CONTRACTOR MUST KEEP LANE OPEN DURING THE PEAK HOURS.

PROPOSED IMPROVEMENTS

- SIDEWALK FROM STA. 179+96.96 TO STA. 180+67.87
- CURB AND GUTTER FROM STA. 179+96.96 TO STA. 180+67.87
- MILL & OVERLAY FROM STA. 179+96.96 TO STA. 180+67.87

SEQUENCE OF CONSTRUCTION

- PHASE 5
 - THE CONTRACTOR SHALL SET UP PHASE 1 EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
 - INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 16.2.
 - CONSTRUCT THE SIDEWALK AND CURB AND GUTTER, AND MILL AND OVERLAY THE NORTHBOUND OUTSIDE LANE OF VAN DORN STREET THROUGH THE INTERSECTION WITH HOLMES RUN PARKWAY FROM STA. 179+96.96 TO STA. 180+67.87.
 - REMOVE TEMP. ADA CURB RAMPS ALONG HOLMES RUN PARKWAY AFTER FINAL PAVEMENT SECTION IS CONSTRUCTED AND PRIOR TO REMOVING MOT SET-UP FOR THIS PHASE. RESTORE THE AREA.



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS **90% DESIGN PHASE**



CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

REVISIONS	DESCRIPTION
DATE	
BY	



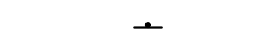












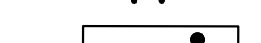

ALEXANDRIA PROJECT NO.:	110104122
DATE OF PLAN ISSUANCE:	N/A
CONSULTANT PROJECT ID.:	N/A
DESIGNED BY:	VALUE DATE: 4/5/24
DRAWN BY:	VALUE DATE: 4/5/24
CHECKED BY:	VALUE DATE: 4/5/24
APPROVED BY:	DATE:

MAINTENANCE OF TRAFFIC
PHASE 5 - N VAN DORN ST
AT HOLMES RUN

SHEET
C-1304F
SCALE 1" = 50'

Plotted By: Waring, Megan Sheet: West End Transitway - Phase 1 Layout: C-1306 MOT PHASE 3 July 11, 2024 01:42:10pm K:\NVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\MOT VAN DORN AND HOLMES RUN PH4A.dwg

LEGEND

	WORK ZONE		EXIST. PROPERTY LINE
	TEMPORARY TRAFFIC SIGN		PROP. PROPERTY LINE
	CHANNELIZING DEVICES		PROP. CONSTRUCTION EASEMENT
	GROUP 2: LONGITUDINAL CHANNELIZING DEVICES	PAVEMENT MARKING LEGEND	
	DIRECTION OF TRAFFIC		TYPE B, CLASS 1 WHITE 24" WIDTH
	EXISTING PAVEMENT MARKING		TYPE B, CLASS 1 WHITE 12" WIDTH
	TEMPORARY PAVEMENT MARKING		TYPE B, CLASS 1 DOUBLE YELLOW 4" WIDTH
	TYPE III BARRICADE		TYPE B, CLASS 1 WHITE 4" WIDTH
	DIRECTIONAL ARROW BOARD		TYPE B, CLASS 1 WHITE 8" WIDTH

NOTES

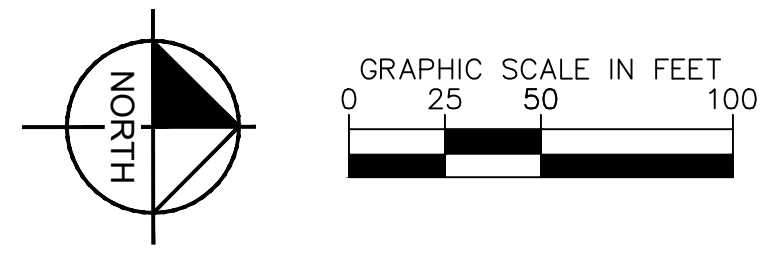
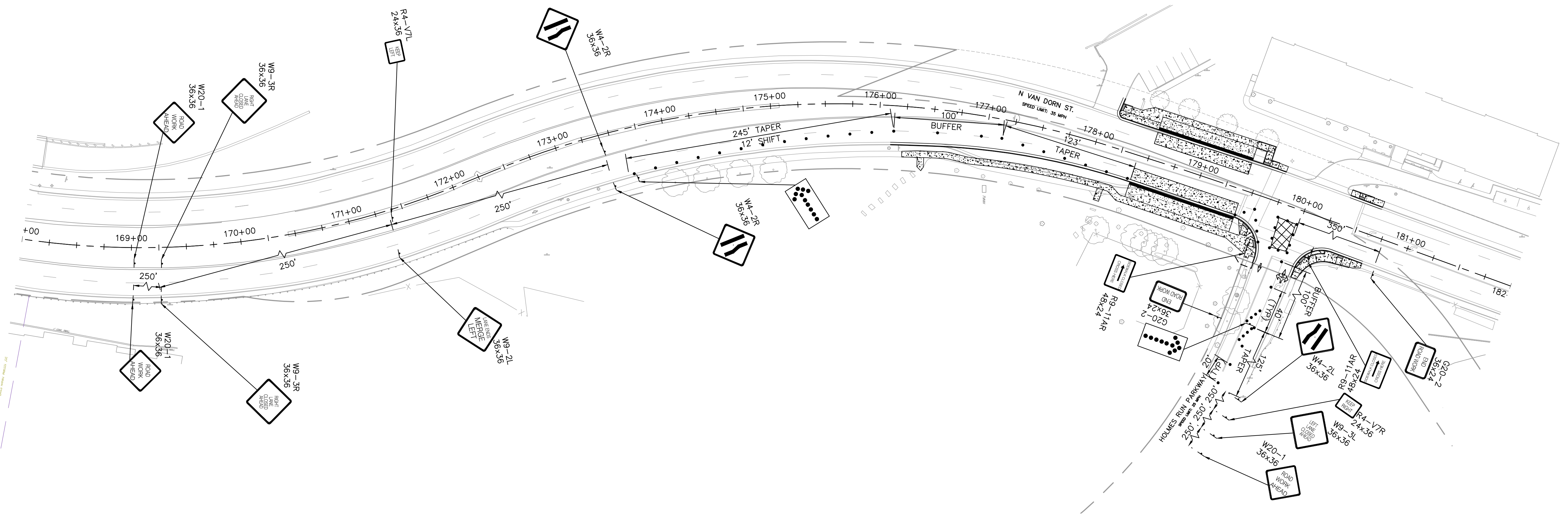
- CONTRACTOR TO MAINTAIN LOCAL ACCESS AT ALL TIMES
- EXISTING PAVEMENT MARKINGS ARE APPROXIMATE AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO IMPLEMENTING ANY TRAFFIC CONTROL MEASURES
- TEMPORARILY CLOSE BUS STOP. COORDINATE WITH DASH TO REDIRECT RIDERS OF ROUTE 31 TO THE STOP AT BEAUREGARD ST AND BRANCH AVE. COORDINATE WITH WMATA TO REDIRECT RIDERS TO OF ROUTE 7A TO THE STOP AT BEAUREGARD ST AND BRANCH AVE.
- THE CONTRACTOR MUST KEEP LANE OPEN DURING THE PEAK HOURS.

PROPOSED IMPROVEMENTS

- MILL & OVERLAY FROM STA. 179+79.13 TO STA. 179+7.79

SEQUENCE OF CONSTRUCTION

- PHASE 6A
 - THE CONTRACTOR SHALL SET UP PHASE 1 EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
 - INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 16.2 AND 17.2.
 - MILL AND OVERLAY THE NORTHBOUND OUTSIDE LANE OF VAN DORN STREET THROUGH THE INTERSECTION WITH HOLMES RUN PARKWAY FROM STA. 179+79.13 TO STA. 179+7.79.



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

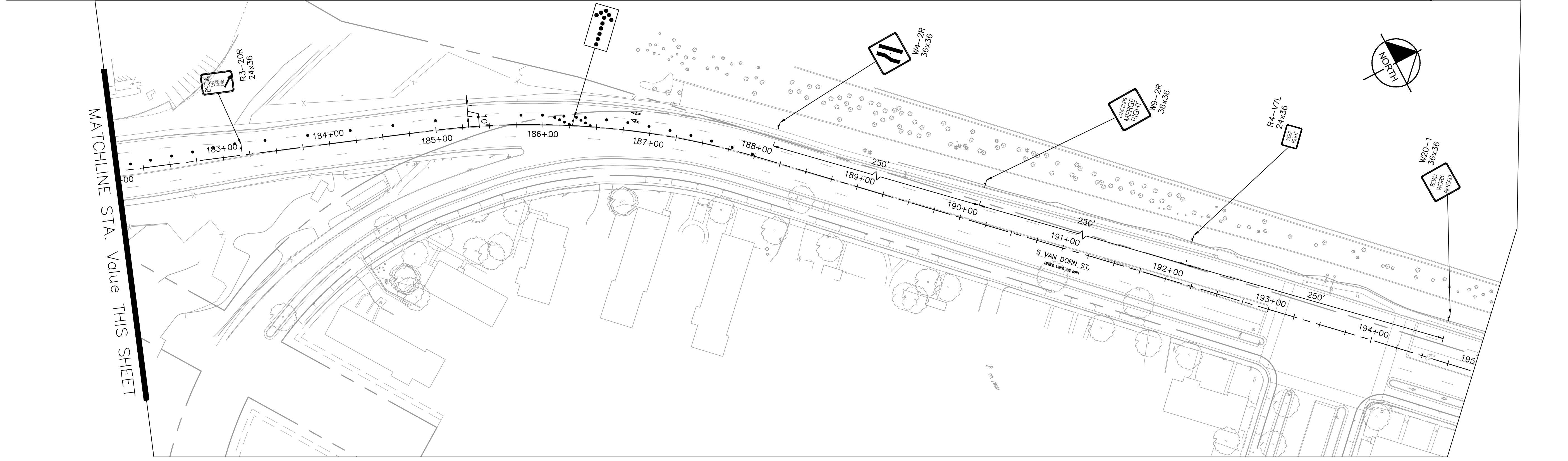
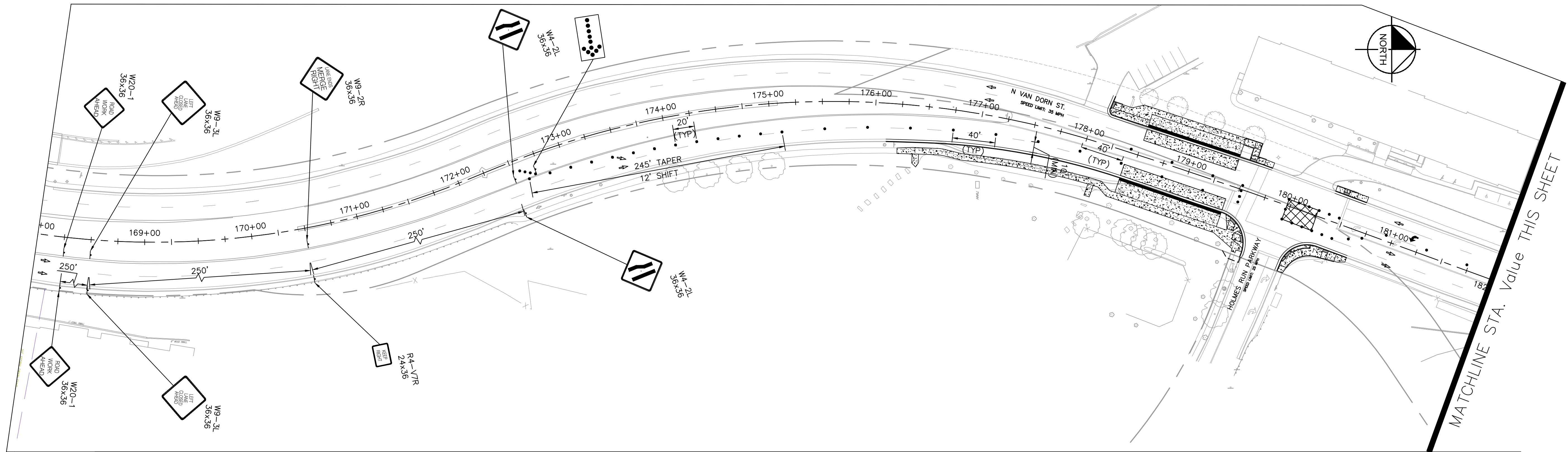
REVISIONS	DATE	DESCRIPTION

ALEXANDRIA PROJECT NO.: 110104122
 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: VALUE DATE: 4/5/24
 DRAWN BY: VALUE DATE: 4/5/24
 CHECKED BY: VALUE DATE: 4/5/24
 APPROVED BY: _____ DATE: _____

MAINTENANCE OF TRAFFIC
PHASE 6A - N VAN DORN ST
AT HOLMES RUN

SHEET
 C-1304G
 SCALE 1" = 50'

Plotted By: Waring, Megan Sheet Set: West End Transitway - Phase 1 Layout: C-1304 MOT PHASE 3 July 11, 2024 01:42:38pm K:\NVA_Transitway\110104122_West End Transitway Design\CADD\PlanSheets\MOT VAN DORN AND HOLMES RUN PH4C.dwg



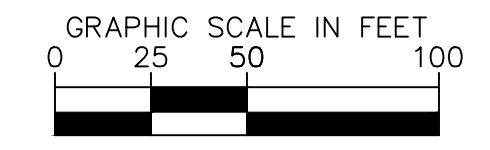
LEGEND

	WORK ZONE		EXIST. PROPERTY LINE
	TEMPORARY TRAFFIC SIGN		PROP. PROPERTY LINE
	CHANNELIZING DEVICES		PROP. CONSTRUCTION EASEMENT
	GROUP 2: LONGITUDINAL CHANNELIZING DEVICES	PAVEMENT MARKING LEGEND	
	DIRECTION OF TRAFFIC		TYPE B, CLASS 1 WHITE 24" WIDTH
	EXISTING PAVEMENT MARKING		TYPE B, CLASS 1 WHITE 12" WIDTH
	TEMPORARY PAVEMENT MARKING		TYPE B, CLASS 1 DOUBLE YELLOW 4" WIDTH
	TYPE III BARRICADE		TYPE B, CLASS 1 WHITE 4" WIDTH
	DIRECTIONAL ARROW BOARD		TYPE B, CLASS 1 WHITE 8" WIDTH

- NOTES**
- CONTRACTOR TO MAINTAIN LOCAL ACCESS AT ALL TIMES
 - EXISTING PAVEMENT MARKINGS ARE APPROXIMATE AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO IMPLEMENTING ANY TRAFFIC CONTROL MEASURES
 - TEMPORARILY CLOSE BUS STOP. COORDINATE WITH DASH TO REDIRECT RIDERS OF ROUTE 31 TO THE STOP AT BEAUREGARD ST AND BRANCH AVE. COORDINATE WITH WMATA TO REDIRECT RIDERS TO OF ROUTE 7A TO THE STOP AT BEAUREGARD ST AND BRANCH AVE.
 - THE CONTRACTOR MUST KEEP LANE OPEN DURING THE PEAK HOURS.

- PROPOSED IMPROVEMENTS**
- MILL & OVERLAY FROM STA. 179+96.96 TO STA. 180+26.12

- SEQUENCE OF CONSTRUCTION**
- PHASE 6B
 - THE CONTRACTOR SHALL SET UP PHASE 1 EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
 - INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 42.2.
 - MILL AND OVERLAY THE NORTHBOUND AND SOUTHBOUND INSIDE LANE OF VAN DORN STREET THROUGH THE INTERSECTION WITH HOLMES RUN PARKWAY FROM STA. 179+96.96 TO STA. 180+26.12.



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

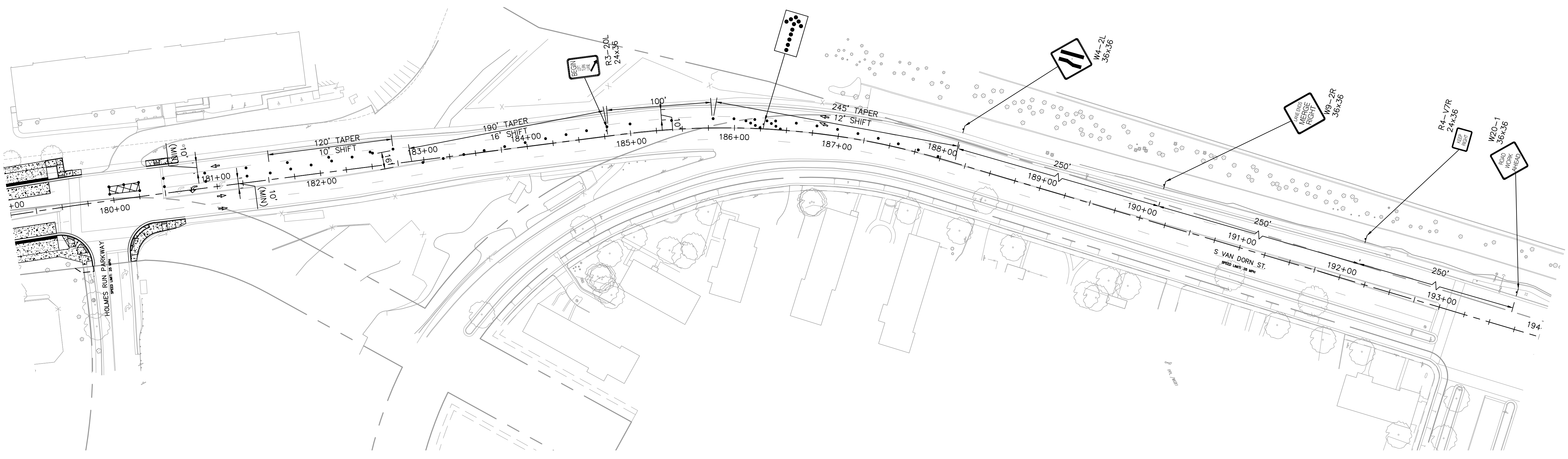
REVISIONS	DATE	DESCRIPTION

ALEXANDRIA PROJECT NO.: 110104122
DATE OF PLAN ISSUANCE: N/A
CONSULTANT PROJECT ID: N/A
DESIGNED BY: VALUE DATE: 4/5/24
DRAWN BY: VALUE DATE: 4/5/24
CHECKED BY: VALUE DATE: 4/5/24
APPROVED BY: _____ DATE: _____

**MAINTENANCE OF TRAFFIC
PHASE 6B - N VAN DORN ST
AT HOLMES RUN**

SHEET
C-1304H
SCALE 1" = 50'

Plotted By: Waring, Megan Sheet: West End Transitway - Phase 1 Layout: C-1306 MOT PHASE 3 July 11, 2024 01:43:05pm K:\NVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\MOT VAN DORN AND HOLMES RUN PH4D.dwg



LEGEND

	WORK ZONE
	TEMPORARY TRAFFIC SIGN
	CHANNELIZING DEVICES
	GROUP 2: LONGITUDINAL CHANNELIZING DEVICES
	DIRECTION OF TRAFFIC
	EXISTING PAVEMENT MARKING
	TEMPORARY PAVEMENT MARKING
	TYPE III BARRICADE
	DIRECTIONAL ARROW BOARD

	EXIST. PROPERTY LINE
	PROP. PROPERTY LINE
	PROP. CONSTRUCTION EASEMENT

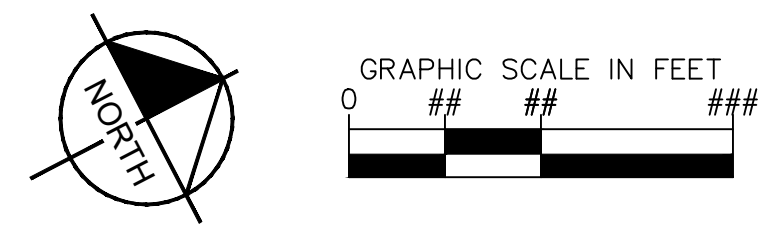
PAVEMENT MARKING LEGEND

	TYPE B, CLASS 1 WHITE 24" WIDTH
	TYPE B, CLASS 1 WHITE 12" WIDTH
	TYPE B, CLASS 1 DOUBLE YELLOW 4" WIDTH
	TYPE B, CLASS 1 WHITE 4" WIDTH
	TYPE B, CLASS 1 WHITE 8" WIDTH

- NOTES**
- CONTRACTOR TO MAINTAIN LOCAL ACCESS AT ALL TIMES
 - EXISTING PAVEMENT MARKINGS ARE APPROXIMATE AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO IMPLEMENTING ANY TRAFFIC CONTROL MEASURES
 - TEMPORARILY CLOSE BUS STOP. COORDINATE WITH DASH TO REDIRECT RIDERS OF ROUTE 31 TO THE STOP AT BEAUREGARD ST AND BRANCH AVE. COORDINATE WITH WMATA TO REDIRECT RIDERS TO OF ROUTE 7A TO THE STOP AT BEAUREGARD ST AND BRANCH AVE.
 - THE CONTRACTOR MUST KEEP LANE OPEN DURING THE PEAK HOURS.

- PROPOSED IMPROVEMENTS**
- MILL & OVERLAY FROM STA. 179+96.96 TO STA. 180+26.12

- SEQUENCE OF CONSTRUCTION**
- PHASE 6C
 - THE CONTRACTOR SHALL SET UP PHASE 1 EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
 - INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 27.2.
 - MILL AND OVERLAY THE SOUTHBOUND CENTER LANE OF VAN DORN STREET THROUGH THE INTERSECTION WITH HOLMES RUN PARKWAY FROM STA. 179+96.96 TO STA. 180+26.12.



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS
90% DESIGN PHASE



CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

REVISIONS

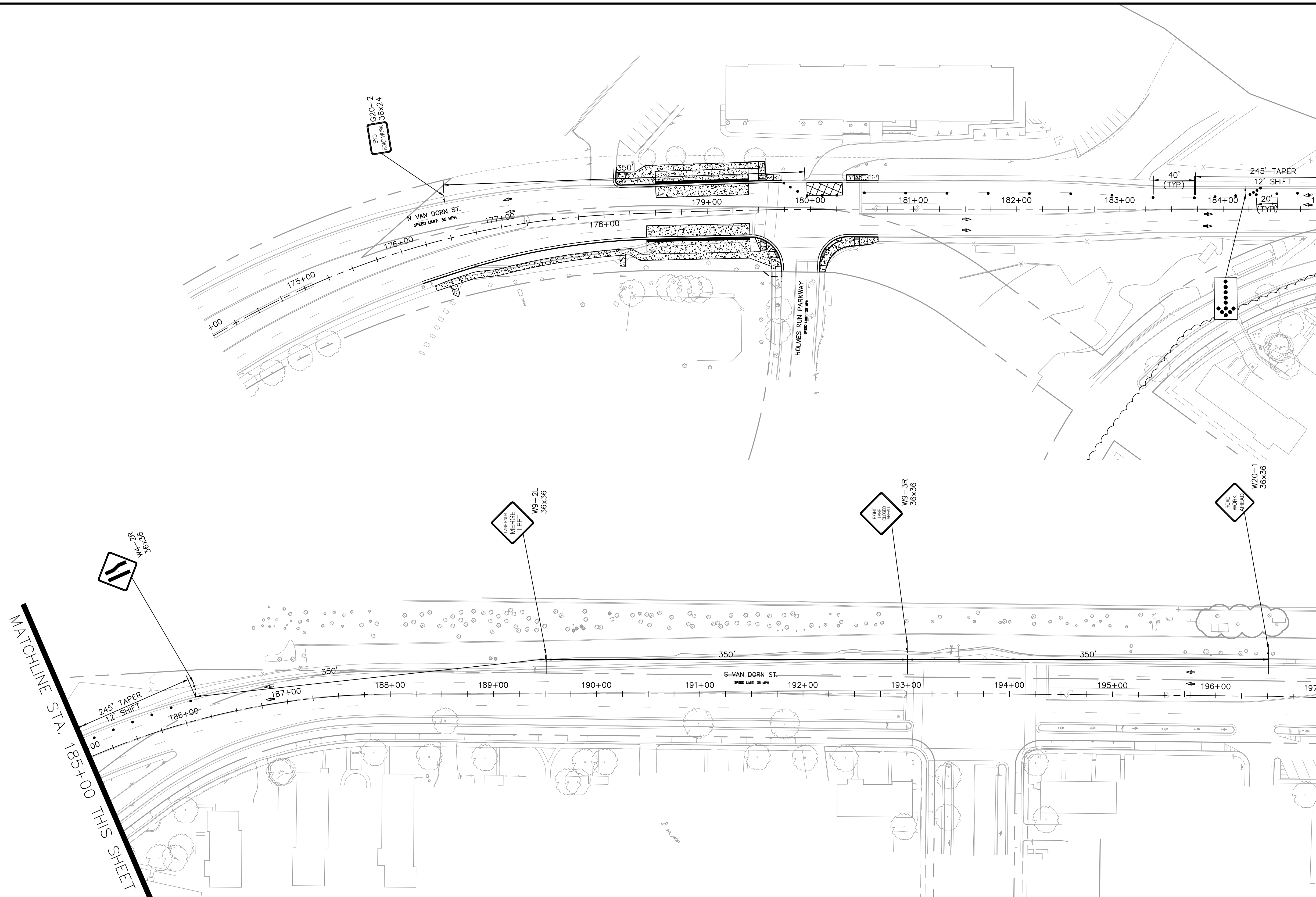
DATE	BY	DESCRIPTION

ALEXANDRIA PROJECT NO.:	110104122
DATE OF PLAN ISSUANCE:	N/A
CONSULTANT PROJECT ID.:	N/A
DESIGNED BY:	VALUE DATE: 4/5/24
DRAWN BY:	VALUE DATE: 4/5/24
CHECKED BY:	VALUE DATE: 4/5/24
APPROVED BY:	DATE: _____

MAINTENANCE OF TRAFFIC
PHASE 6C - N VAN DORN ST
AT HOLMES RUN

SHEET
 C-1304J
 SCALE 1" = 50'

Plotted By: Waring, Megan Sheet Set: West End Transitway - Phase 1 Layout: C-1306 MOT PHASE 1 July 11, 2024 01:43:36pm K:\NVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\MOT VAN DORN AND HOLMES RUN PH4E.dwg



MATCHLINE STA. 185+00 THIS SHEET

LEGEND

	WORK ZONE
	TEMPORARY TRAFFIC SIGN
	CHANNELIZING DEVICES
	GROUP 2: LONGITUDINAL CHANNELIZING DEVICES
	DIRECTION OF TRAFFIC
	EXISTING PAVEMENT MARKING
	TEMPORARY PAVEMENT MARKING
	TYPE III BARRICADE
	DIRECTIONAL ARROW BOARD

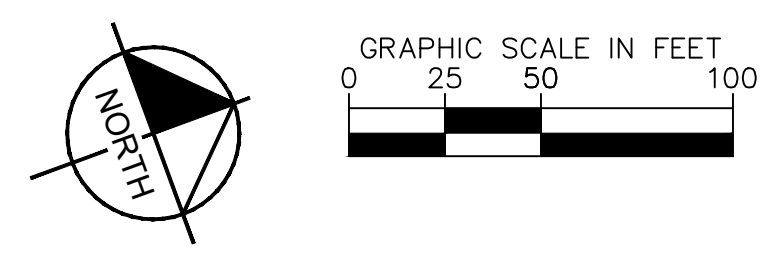
PAVEMENT MARKING LEGEND

	EXIST. PROPERTY LINE
	PROP. PROPERTY LINE
	PROP. CONSTRUCTION EASEMENT
	TYPE B, CLASS 1 WHITE 24" WIDTH
	TYPE B, CLASS 1 WHITE 12" WIDTH
	TYPE B, CLASS 1 DOUBLE YELLOW 4" WIDTH
	TYPE B, CLASS 1 WHITE 4" WIDTH
	TYPE B, CLASS 1 WHITE 8" WIDTH

- NOTES**
- CONTRACTOR TO MAINTAIN LOCAL ACCESS AT ALL TIMES
 - EXISTING PAVEMENT MARKINGS ARE APPROXIMATE AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO IMPLEMENTING ANY TRAFFIC CONTROL MEASURES
 - TEMPORARILY CLOSE BUS STOP. COORDINATE WITH DASH TO REDIRECT RIDERS OF ROUTE 31 TO THE STOP AT BEAUREGARD ST AND BRANCH AVE. COORDINATE WITH WMATA TO REDIRECT RIDERS TO OF ROUTE 7A TO THE STOP AT BEAUREGARD ST AND BRANCH AVE.
 - THE CONTRACTOR MUST KEEP LANE OPEN DURING THE PEAK HOURS.

- PROPOSED IMPROVEMENTS**
- MILL & OVERLAY FROM STA. 179+96.96 TO STA. 180+26.12

- SEQUENCE OF CONSTRUCTION**
- PHASE 6D
 - THE CONTRACTOR SHALL SET UP PHASE 1 EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
 - INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 16.2.
 - MILL AND OVERLAY THE SOUTHBOUND OUTSIDE LANE OF VAN DORN STREET THROUGH THE INTERSECTION WITH HOLMES RUN PARKWAY FROM STA. 179+96.96 TO STA. 180+26.12.



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

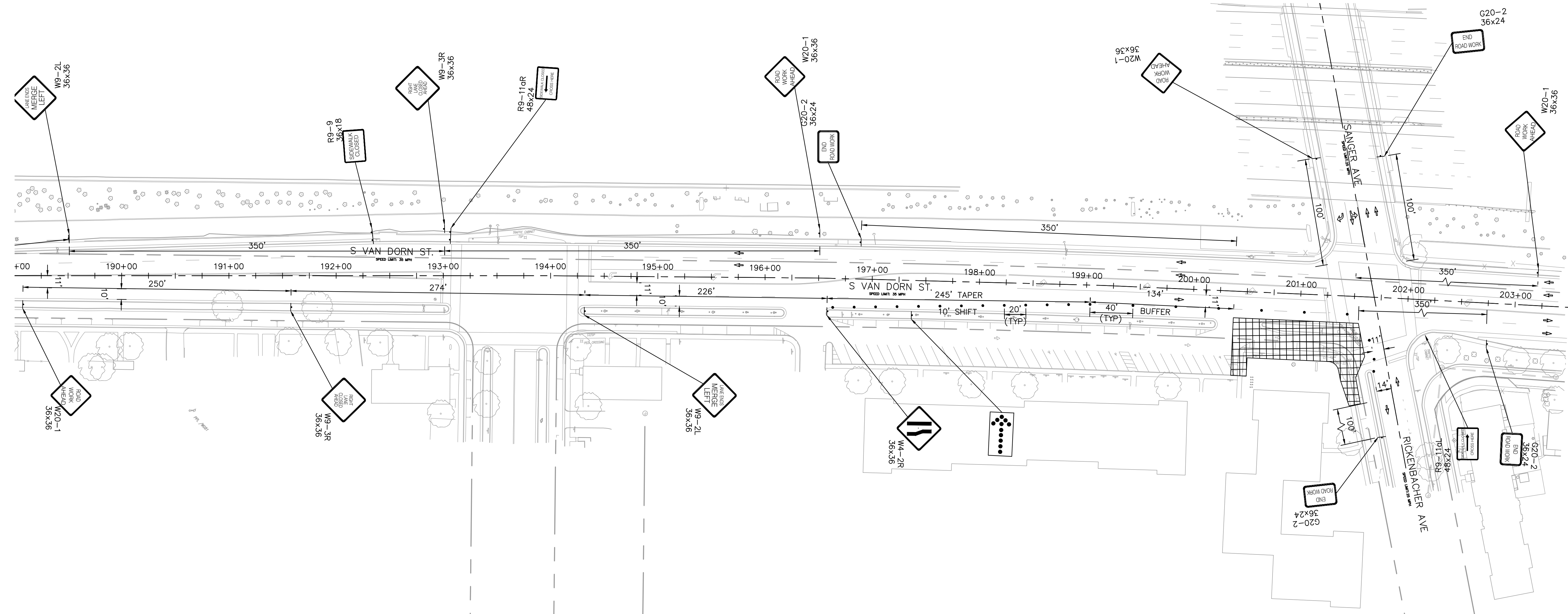
REVISIONS	DATE	DESCRIPTION

ALEXANDRIA PROJECT NO.: 110104122
 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: MAT DATE: 4/5/24
 DRAWN BY: AUB DATE: 4/5/24
 CHECKED BY: EJD DATE: 4/5/24
 APPROVED BY: _____ DATE: _____

MAINTENANCE OF TRAFFIC
PHASE 6D - N VAN DORN ST
AT HOLMES RUN

SHEET
 C-1304K
 SCALE 1" = 50'

Plotted By: Waring, Megan Sheet: West End Transitway - Phase 1 Layout: C-1307 MOT PHASE 1a July 11, 2024 01:43:58pm K:\NVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\MOT VAN DORN AND SANGER PH1A.dwg



LEGEND

	WORK ZONE
	TEMPORARY TRAFFIC SIGN
	CHANNELIZING DEVICES
	GROUP 2: LONGITUDINAL CHANNELIZING DEVICES
	DIRECTION OF TRAFFIC
	EXISTING PAVEMENT MARKING
	TEMPORARY PAVEMENT MARKING
	TYPE III BARRICADE
	DIRECTIONAL ARROW BOARD

	EXIST. PROPERTY LINE
	PROP. PROPERTY LINE
	PROP. CONSTRUCTION EASEMENT

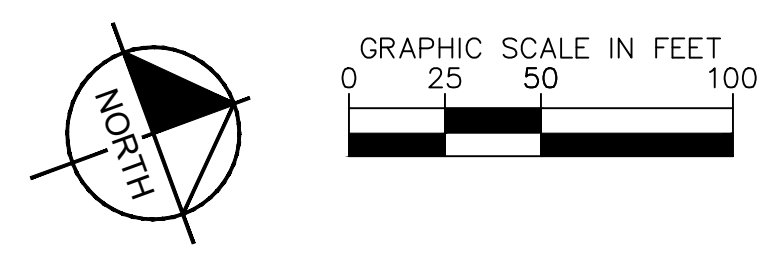
PAVEMENT MARKING LEGEND

	TYPE B, CLASS 1 WHITE 24" WIDTH
	TYPE B, CLASS 1 WHITE 12" WIDTH
	TYPE B, CLASS 1 DOUBLE YELLOW 4" WIDTH
	TYPE B, CLASS 1 WHITE 4" WIDTH
	TYPE B, CLASS 1 WHITE 8" WIDTH

- NOTES**
- CONTRACTOR TO MAINTAIN LOCAL ACCESS AT ALL TIMES
 - EXISTING PAVEMENT MARKINGS ARE APPROXIMATE AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO IMPLEMENTING ANY TRAFFIC CONTROL MEASURES
 - TEMPORARILY CLOSE BUS STOP. COORDINATE WITH DASH TO REDIRECT RIDERS OF ROUTE 31 TO THE STOP AT BEAUREGARD ST AND BRANCH AVE. COORDINATE WITH WMATA TO REDIRECT RIDERS TO OF ROUTE 7A TO THE STOP AT BEAUREGARD ST AND BRANCH AVE.
 - THE CONTRACTOR MUST KEEP LANE OPEN DURING THE PEAK HOURS.

- PROPOSED IMPROVEMENTS**
- SIDEWALK FROM STA. 200+37.94 TO STA. 201+62.34
 - PLATFORM FROM STA. 200+37.94 TO STA. 201+62.34
 - CURB AND GUTTER FROM STA. 200+37.94 TO STA. 201+62.34

- SEQUENCE OF CONSTRUCTION**
- PHASE 1A
 - THE CONTRACTOR SHALL SET UP EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
 - INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 16.2 AND 35.1.
 - CONSTRUCT THE SIDEWALK, PLATFORM, AND CURB AND GUTTER FOR THE SOUTHBOUND BUS STATIONS AND OUTSIDE LANE MILL AND OVERLAY ALONG VAN DORN STREET FROM STA. 200+37.94 TO STA. 201+62.34.



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

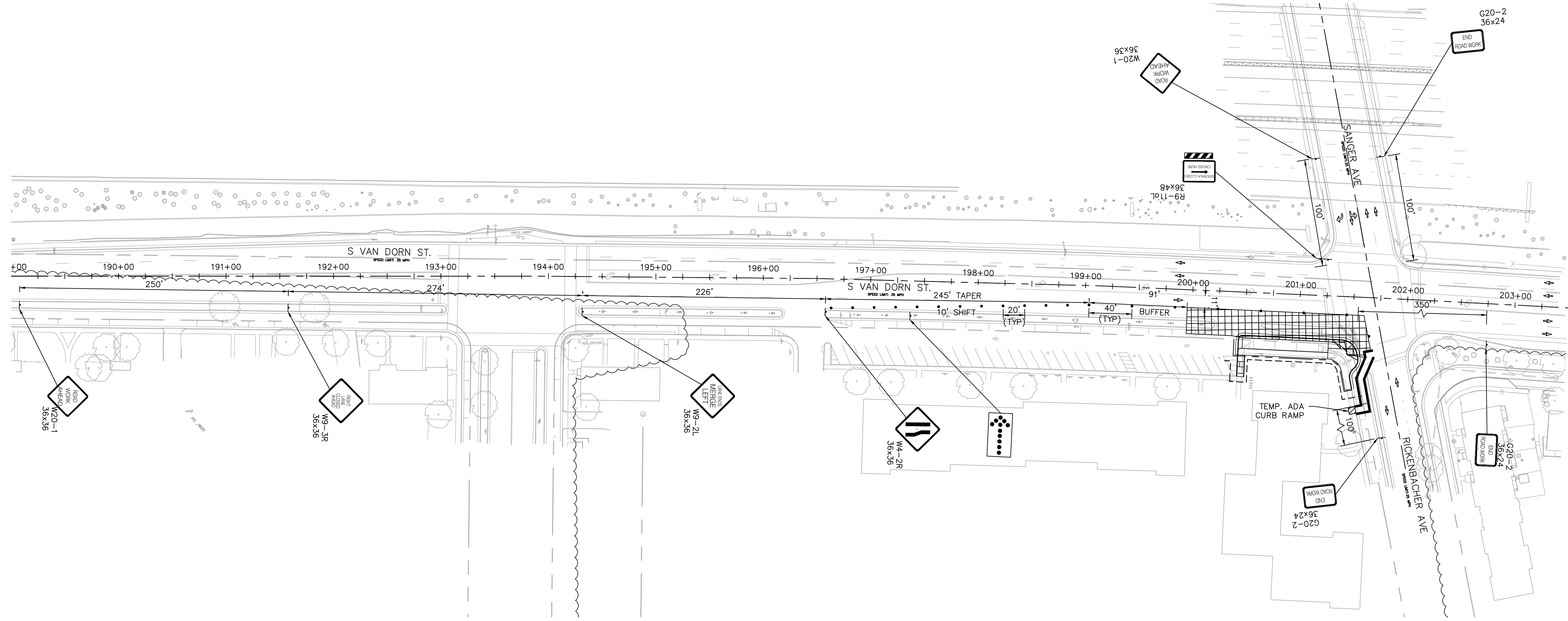
REVISIONS	DATE	DESCRIPTION

ALEXANDRIA PROJECT NO.:	110104122
DATE OF PLAN ISSUANCE:	N/A
CONSULTANT PROJECT ID.:	N/A
DESIGNED BY:	MAT. DATE: 5/4/23
DRAWN BY:	AUB. DATE: 5/4/23
CHECKED BY:	EJD. DATE: 5/4/23
APPROVED BY:	DATE: 5/4/23

MAINTENANCE OF TRAFFIC
PHASE 1A - N VAN DORN ST
AT SANGER AVE

SHEET
 C-1306A
 SCALE 1" = 50'

Plotted By: Phillips, Mark Sheet: Sect: West End Transitway - Phase 1 Layout: C-1306B MOT PHASE 1B July 12, 2024 07:21:48am K:\NVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\MOT VAN DORN AND SANGER PH1B.dwg



LEGEND

	WORK ZONE
	TEMPORARY TRAFFIC SIGN
	CHANNELIZING DEVICES
	GROUP 2: LONGITUDINAL CHANNELIZING DEVICES
	DIRECTION OF TRAFFIC
	EXISTING PAVEMENT MARKING
	TEMPORARY PAVEMENT MARKING
	TYPE III BARRICADE
	DIRECTIONAL ARROW BOARD

	EXIST. PROPERTY LINE
	PROP. PROPERTY LINE
	PROP. CONSTRUCTION EASEMENT

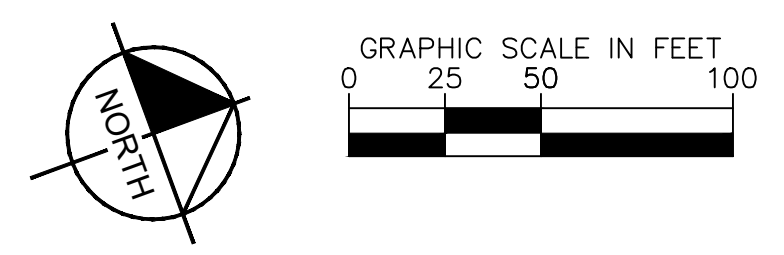
PAVEMENT MARKING LEGEND

	TYPE B, CLASS 1 WHITE 24" WIDTH
	TYPE B, CLASS 1 WHITE 12" WIDTH
	TYPE B, CLASS 1 DOUBLE YELLOW 4" WIDTH
	TYPE B, CLASS 1 WHITE 4" WIDTH
	TYPE B, CLASS 1 WHITE 8" WIDTH

- NOTES**
- CONTRACTOR TO MAINTAIN LOCAL ACCESS AT ALL TIMES
 - EXISTING PAVEMENT MARKINGS ARE APPROXIMATE AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO IMPLEMENTING ANY TRAFFIC CONTROL MEASURES
 - TEMPORARILY CLOSE BUS STOP. COORDINATE WITH DASH TO REDIRECT RIDERS OF ROUTE 31 TO THE STOP AT BEAUREGARD ST AND BRANCH AVE. COORDINATE WITH WMATA TO REDIRECT RIDERS TO OF ROUTE 7A TO THE STOP AT BEAUREGARD ST AND BRANCH AVE.
 - THE CONTRACTOR MUST KEEP LANE OPEN DURING THE PEAK HOURS.

- PROPOSED IMPROVEMENTS**
- CONCRETE BUS PAD FROM STA. 199+95.25 TO STA. 201+67.84
 - MEDIAN FROM STA. 199+95.25 TO STA. 201+67.84
 - MILL & OVERLAY FROM STA. 199+95.25 TO STA. 201+67.84

- SEQUENCE OF CONSTRUCTION**
- PHASE 1B
 - THE CONTRACTOR SHALL SET UP EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
 - INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 16.2.
 - CONSTRUCT THE CONCRETE BUS PAD, MEDIAN, AND MILL AND OVERLAY FOR THE SOUTHBOUND BUS STATIONS OF VAN DORN STREET FROM STA. 199+95.25 TO STA. 201+67.84.



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

MAINTENANCE OF TRAFFIC
PHASE 1B - N VAN DORN ST
AT SANGER AVE

90% DESIGN PHASE

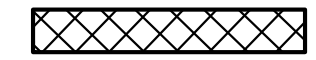






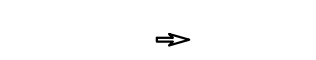





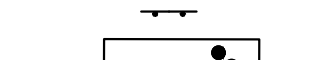



CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

REVISIONS	DESCRIPTION
DATE	BY

ALEXANDRIA PROJECT NO.: 110104122	DATE OF PLAN ISSUANCE: N/A
CONSULTANT PROJECT ID: N/A	DESIGNED BY: MAT DATE: 5/4/23
	DRAWN BY: AUB DATE: 5/4/23
	CHECKED BY: EJD DATE: 5/4/23
	APPROVED BY: DATE: 5/4/23

SHEET
C-1306B
SCALE 1" = 50'

LEGEND

	WORK ZONE		EXIST. PROPERTY LINE
	TEMPORARY TRAFFIC SIGN		PROP. PROPERTY LINE
	CHANNELIZING DEVICES		PROP. CONSTRUCTION EASEMENT
	GROUP 2: LONGITUDINAL CHANNELIZING DEVICES	PAVEMENT MARKING LEGEND	
	DIRECTION OF TRAFFIC		TYPE B, CLASS 1 WHITE 24" WIDTH
	EXISTING PAVEMENT MARKING		TYPE B, CLASS 1 WHITE 12" WIDTH
	TEMPORARY PAVEMENT MARKING		TYPE B, CLASS 1 DOUBLE YELLOW 4" WIDTH
	TYPE III BARRICADE		TYPE B, CLASS 1 WHITE 4" WIDTH
	DIRECTIONAL ARROW BOARD		TYPE B, CLASS 1 WHITE 8" WIDTH

NOTES

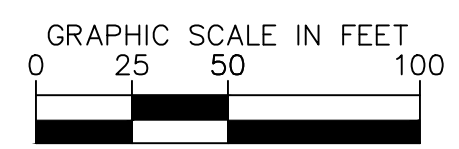
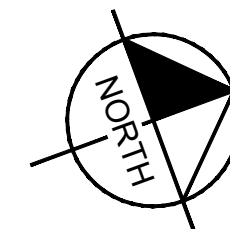
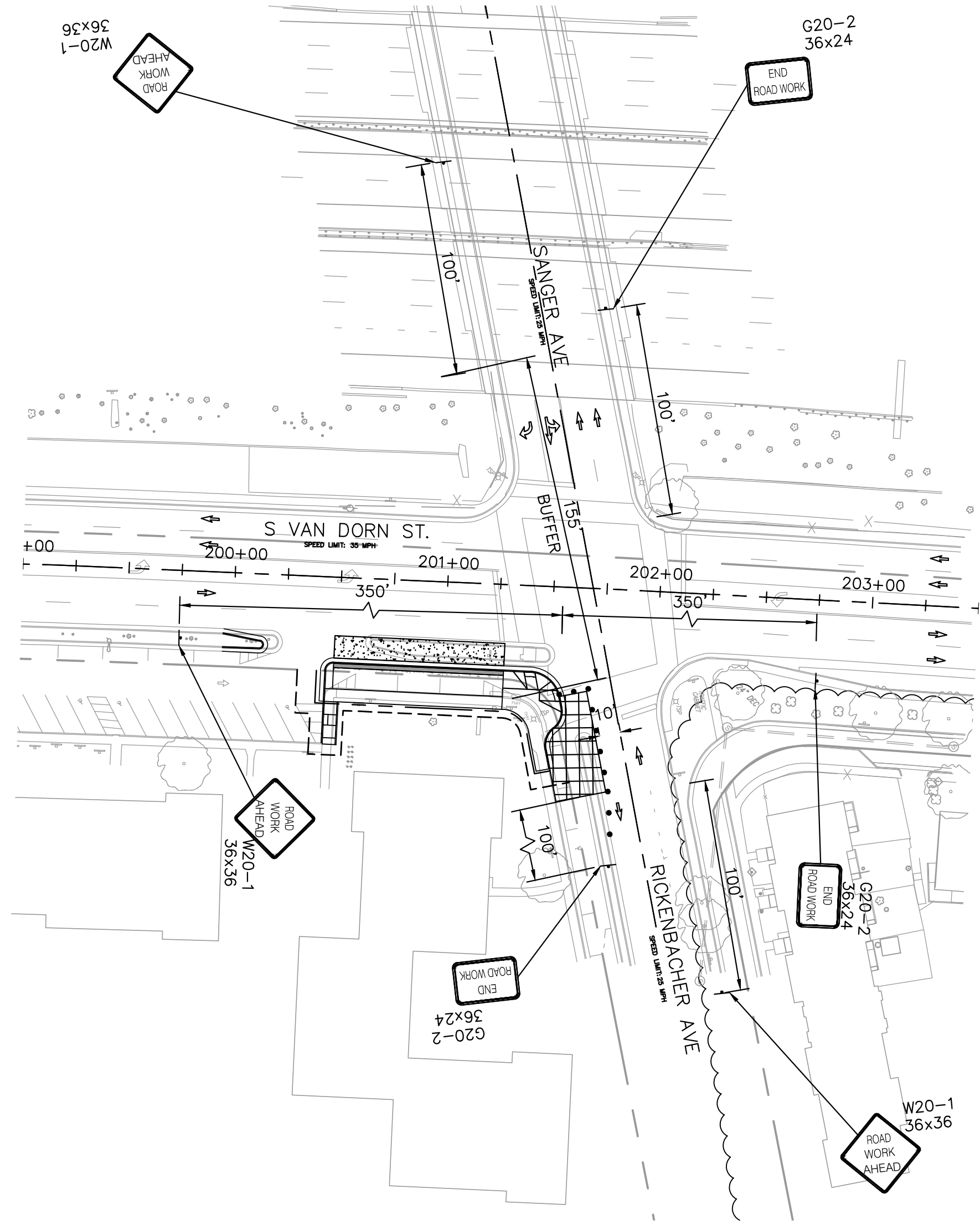
- CONTRACTOR TO MAINTAIN LOCAL ACCESS AT ALL TIMES
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- THE CONTRACTOR MUST KEEP LANE OPEN DURING THE PEAK HOURS.

PROPOSED IMPROVEMENTS

- MEDIAN FROM STA. 201+49.60 TO STA. 201+79.34

SEQUENCE OF CONSTRUCTION

- PHASE 1C
 - THE CONTRACTOR SHALL SET UP EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
 - INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 16.2.
 - CONSTRUCT THE MEDIAN ALONG RICHENBACHER AVE FROM STA. 201+49.60 TO STA. 201+79.34.



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

**MAINTENANCE OF TRAFFIC
PHASE 1C - N VAN DORN ST
AT SANGER AVE**

SHEET
C-1306C
SCALE 1" = 50'

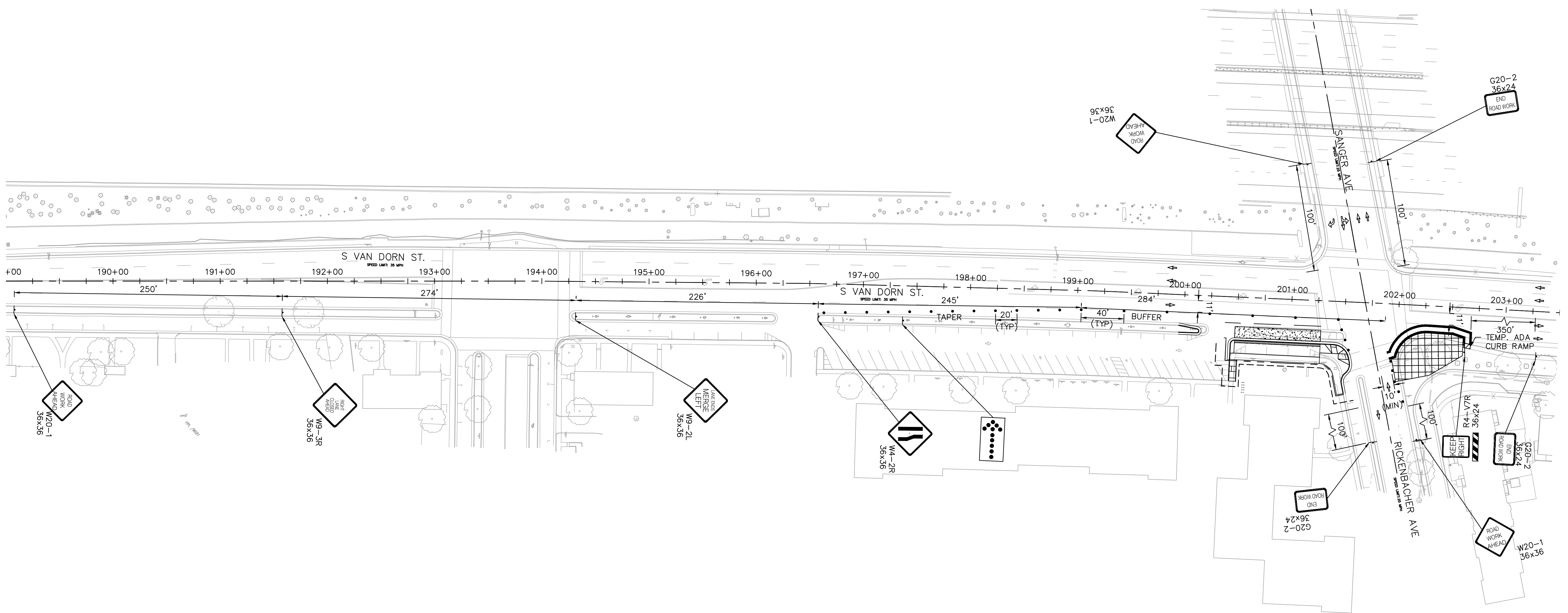
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DATE OF PLAN ISSUANCE:	N/A
CONSULTANT PROJECT ID.:	N/A
DESIGNED BY:	MAT. DATE: 5/4/23
DRAWN BY:	AJB. DATE: 5/4/23
CHECKED BY:	EJD. DATE: 5/4/23
APPROVED BY:	DATE: 5/4/23

REVISIONS	DATE	DESCRIPTION

CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313



Plotted By: Waring, Megan Sheet: West End Transitway - Phase 1 Layout: C-1307 MOT PHASE 1a July 11, 2024 01:45:08pm K:\NVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\MOT VAN DORN AND SANGER PH1D.dwg



LEGEND

	WORK ZONE
	TEMPORARY TRAFFIC SIGN
	CHANNELIZING DEVICES
	GROUP 2: LONGITUDINAL CHANNELIZING DEVICES
	DIRECTION OF TRAFFIC
	EXISTING PAVEMENT MARKING
	TEMPORARY PAVEMENT MARKING
	TYPE III BARRICADE
	DIRECTIONAL ARROW BOARD

	EXIST. PROPERTY LINE
	PROP. PROPERTY LINE
	PROP. CONSTRUCTION EASEMENT

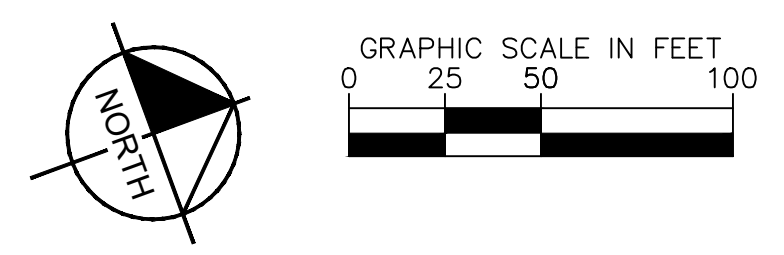
PAVEMENT MARKING LEGEND

	TYPE B, CLASS 1 WHITE 24" WIDTH
	TYPE B, CLASS 1 WHITE 12" WIDTH
	TYPE B, CLASS 1 DOUBLE YELLOW 4" WIDTH
	TYPE B, CLASS 1 WHITE 4" WIDTH
	TYPE B, CLASS 1 WHITE 8" WIDTH

- NOTES**
- CONTRACTOR TO MAINTAIN LOCAL ACCESS AT ALL TIMES
 - EXISTING PAVEMENT MARKINGS ARE APPROXIMATE AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO IMPLEMENTING ANY TRAFFIC CONTROL MEASURES
 - TEMPORARILY CLOSE BUS STOP. COORDINATE WITH DASH TO REDIRECT RIDERS OF ROUTE 31 TO THE STOP AT BEAUREGARD ST AND BRANCH AVE. COORDINATE WITH WMATA TO REDIRECT RIDERS TO OF ROUTE 7A TO THE STOP AT BEAUREGARD ST AND BRANCH AVE.
 - THE CONTRACTOR MUST KEEP LANE OPEN DURING THE PEAK HOURS.

- PROPOSED IMPROVEMENTS**
- SIDEWALK FROM STA. 201+95.46 TO STA. 202+61.22
 - CURB AND GUTTER FROM STA. 201+95.46 TO STA. 202+61.22
 - CURB RAMPS FROM STA. 201+95.46 TO STA. 202+61.22

- SEQUENCE OF CONSTRUCTION**
- PHASE 1D
 - THE CONTRACTOR SHALL SET UP EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
 - INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 35.1.
 - CONSTRUCT THE SIDEWALK, CURB RAMPS, AND CURB AND GUTTER ON VAN DORN STREET FROM STA. 201+95.46 TO STA. 202+61.22.



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

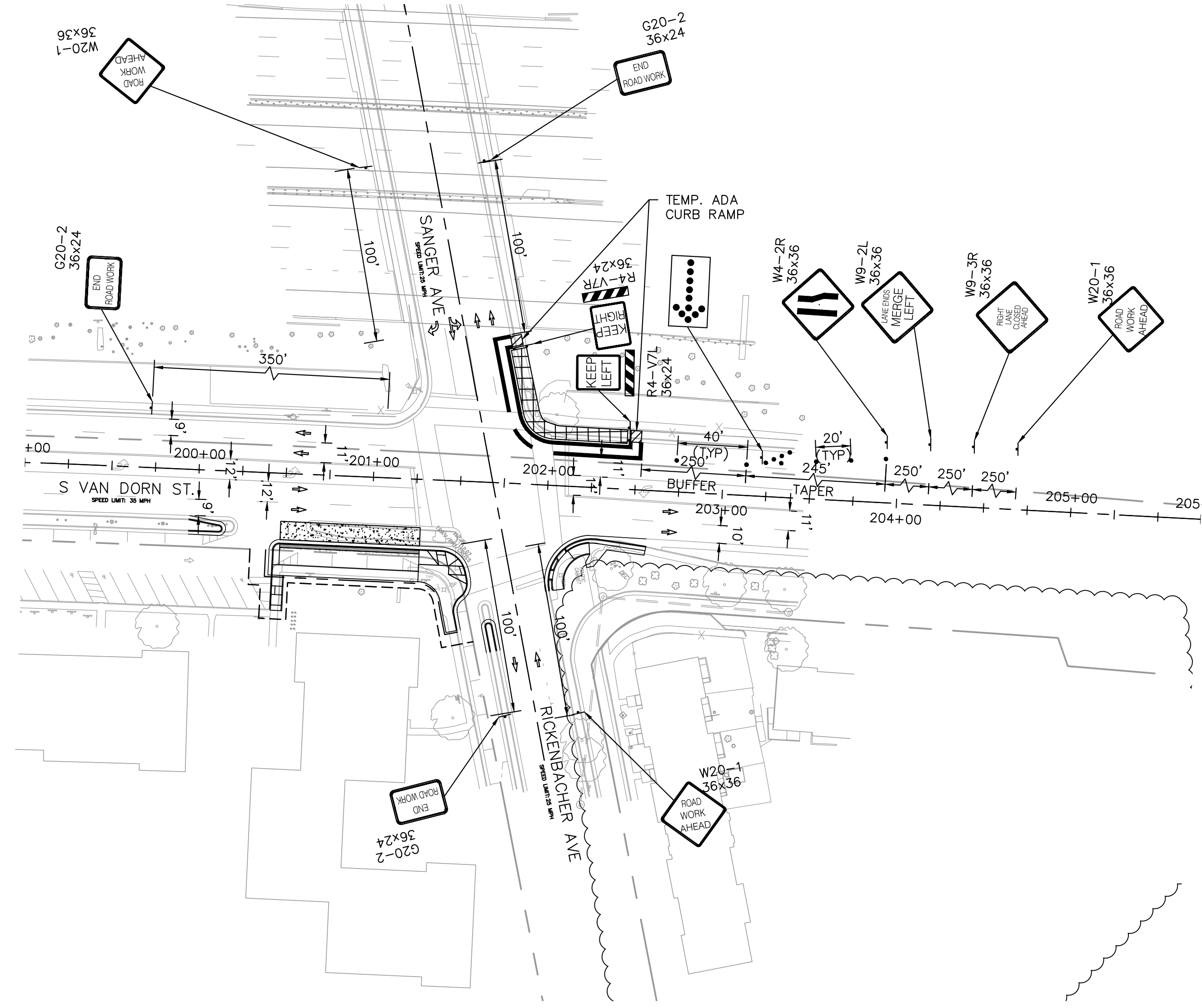
REVISIONS	DATE	DESCRIPTION

ALEXANDRIA PROJECT NO.: 110104122
 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: MAT DATE: 7/11/24
 DRAWN BY: AUB DATE: 7/11/24
 CHECKED BY: EJD DATE: 7/11/24
 APPROVED BY: DATE: 7/11/24

MAINTENANCE OF TRAFFIC
PHASE 1D - N VAN DORN ST
AT SANGER AVE

SHEET
 C-1306D
 SCALE 1" = 50'

Plotted By: Waring, Megan Sheet Set: West End Transitway - Phase 1 Layout: C-1306E MOT PHASE 2 July 11, 2024 01:45:39pm K:\VVA_Transit\110104122_West_End_Transitway_Design\CADD\PlanSheets\MOT_VAN_DORN_AND_SANGER_Ph2.dwg



LEGEND

	WORK ZONE		EXIST. PROPERTY LINE
	TEMPORARY TRAFFIC SIGN		PROP. PROPERTY LINE
	CHANNELIZING DEVICES		PROP. CONSTRUCTION EASEMENT
	GROUP 2: LONGITUDINAL CHANNELIZING DEVICES	PAVEMENT MARKING LEGEND	
	DIRECTION OF TRAFFIC		TYPE B, CLASS 1 WHITE 24" WIDTH
	EXISTING PAVEMENT MARKING		TYPE B, CLASS 1 WHITE 12" WIDTH
	TEMPORARY PAVEMENT MARKING		TYPE B, CLASS 1 DOUBLE YELLOW 4" WIDTH
	TYPE III BARRICADE		TYPE B, CLASS 1 WHITE 4" WIDTH
	DIRECTIONAL ARROW BOARD		TYPE B, CLASS 1 WHITE 8" WIDTH

NOTES

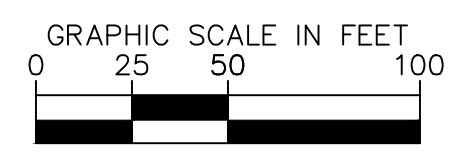
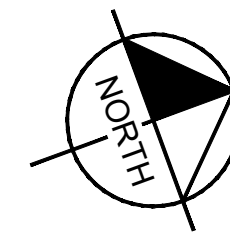
- CONTRACTOR TO MAINTAIN LOCAL ACCESS AT ALL TIMES
- EXISTING PAVEMENT MARKINGS ARE APPROXIMATE AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO IMPLEMENTING ANY TRAFFIC CONTROL MEASURES
- TEMPORARILY CLOSE BUS STOP. COORDINATE WITH DASH TO REDIRECT RIDERS OF ROUTE 31 TO THE STOP AT BEAUREGARD ST AND BRANCH AVE. COORDINATE WITH WMATA TO REDIRECT RIDERS TO OF ROUTE 7A TO THE STOP AT BEAUREGARD ST AND BRANCH AVE.
- THE CONTRACTOR MUST KEEP LANE OPEN DURING THE PEAK HOURS.

PROPOSED IMPROVEMENTS

- SIDEWALK FROM STA. 201+75.12 TO STA. 202+44.12
- CURB AND GUTTER FROM STA. 201+75.12 TO STA. 202+44.12
- CURB RAMP FROM STA. 201+75.12 TO STA. 202+44.12

SEQUENCE OF CONSTRUCTION

- PHASE 2
 - THE CONTRACTOR SHALL SET UP EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
 - INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 16.2 AND 35.1.
 - CONSTRUCT THE SIDEWALK, CURB RAMP, AND CURB AND GITTER ON VAN DORN STREET FROM STA. 201+75.12 TO STA. 202+44.12.



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

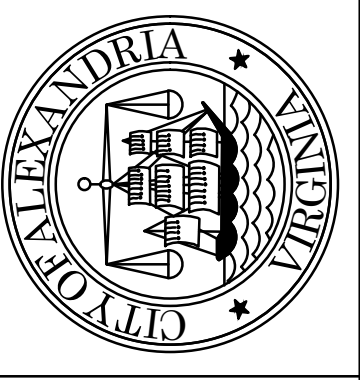
**MAINTENANCE OF TRAFFIC
PHASE 2 - N VAN DORN ST
AT SANGER AVE**

SHEET
C-1306E
SCALE 1" = 50'

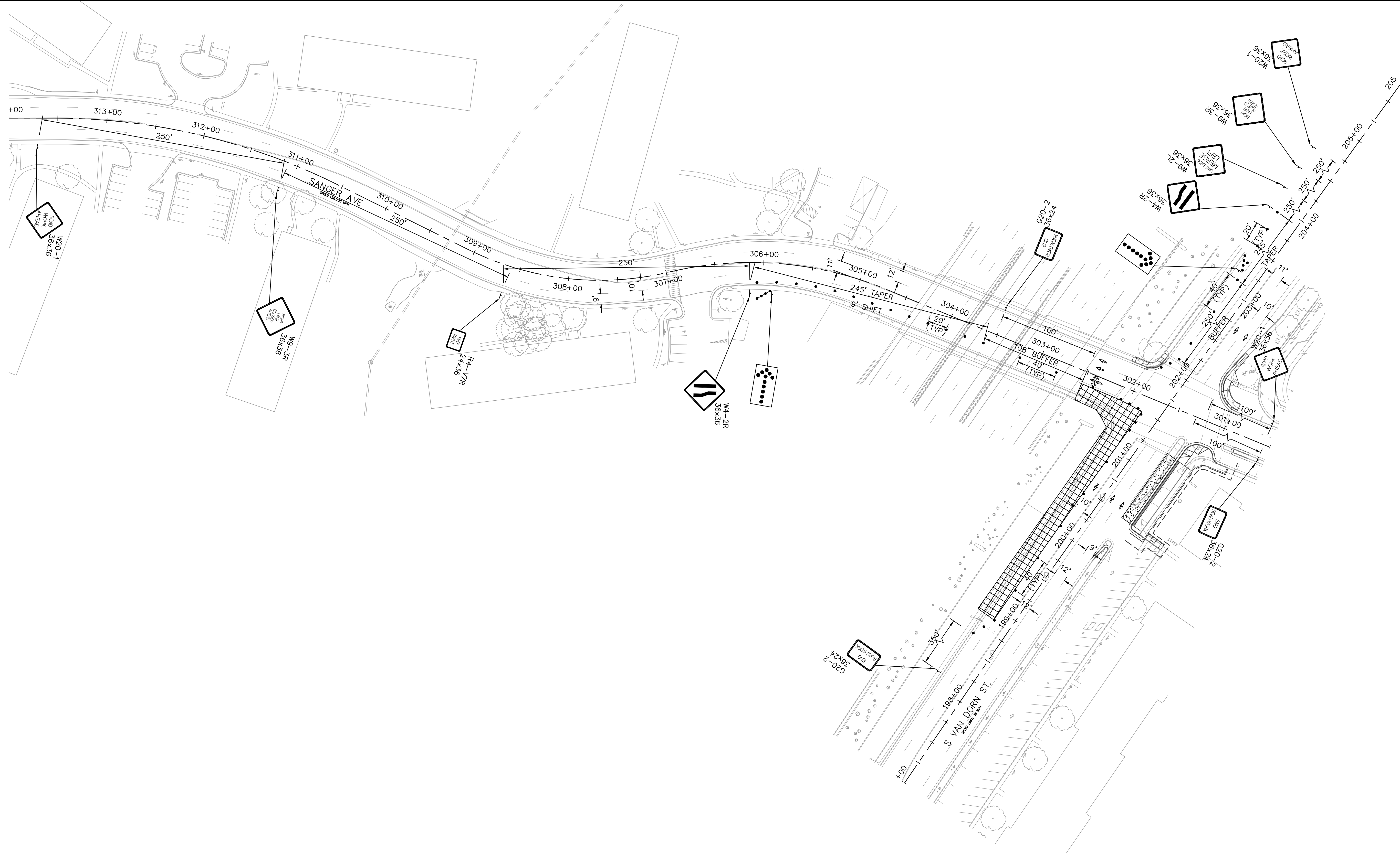
REVISIONS	DATE	DESCRIPTION

ALEXANDRIA PROJECT NO.: 110104122
 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: MAT DATE: 7/11/24
 DRAWN BY: AUB DATE: 7/11/24
 CHECKED BY: EJD DATE: 7/11/24
 APPROVED BY: DATE: 7/11/24

CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313



Plotted By: Waring, Megan Sheet Set: West End Transitway - Phase 1 Layout: C-1306F MOT PHASE 3 July 11, 2024 01:45:56pm K:\NVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\MOT VAN DORN AND SANGER PH3.dwg



LEGEND

	WORK ZONE		EXIST. PROPERTY LINE
	TEMPORARY TRAFFIC SIGN		PROP. PROPERTY LINE
	CHANNELIZING DEVICES		PROP. CONSTRUCTION EASEMENT
	GROUP 2: LONGITUDINAL CHANNELIZING DEVICES	PAVEMENT MARKING LEGEND	
	DIRECTION OF TRAFFIC		TYPE B, CLASS 1 WHITE 24" WIDTH
	EXISTING PAVEMENT MARKING		TYPE B, CLASS 1 WHITE 12" WIDTH
	TEMPORARY PAVEMENT MARKING		TYPE B, CLASS 1 DOUBLE YELLOW 4" WIDTH
	TYPE III BARRICADE		TYPE B, CLASS 1 WHITE 4" WIDTH
	DIRECTIONAL ARROW BOARD		TYPE B, CLASS 1 WHITE 8" WIDTH

NOTES

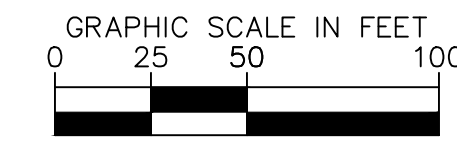
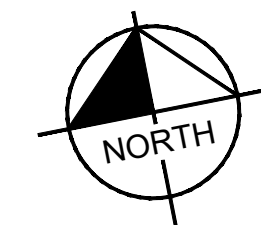
- CONTRACTOR TO MAINTAIN LOCAL ACCESS AT ALL TIMES
- EXISTING PAVEMENT MARKINGS ARE APPROXIMATE AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO IMPLEMENTING ANY TRAFFIC CONTROL MEASURES
- TEMPORARILY CLOSE BUS STOP. COORDINATE WITH DASH TO REDIRECT RIDERS OF ROUTE 31 TO THE STOP AT BEAUREGARD ST AND BRANCH AVE. COORDINATE WITH WMATA TO REDIRECT RIDERS TO OF ROUTE 7A TO THE STOP AT BEAUREGARD ST AND BRANCH AVE.
- THE CONTRACTOR MUST KEEP LANE OPEN DURING THE PEAK HOURS.

PROPOSED IMPROVEMENTS

- SIDEWALK FROM STA. 198+88.10 TO STA. 201+47.85
- CURB AND GUTTER FROM STA. 198+88.10 TO STA. 201+47.85
- CURB RAMPS FROM STA. 198+88.10 TO STA. 201+47.85

SEQUENCE OF CONSTRUCTION

- PHASE 3
 - THE CONTRACTOR SHALL SET UP EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
 - INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 16.2 AND 35.1.
 - CONSTRUCT THE SIDEWALK, CURB RAMPS, AND CURB AND GUTTER ON VAN DORN STREET FROM STA. 198+88.10 TO STA. 201+47.85.



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

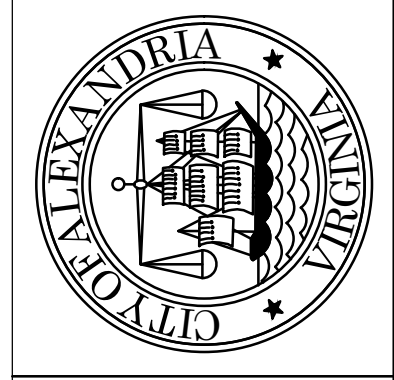
MAINTENANCE OF TRAFFIC
PHASE 3 - N VAN DORN ST
AT SANGER AVE

SHEET
 C-1306F
 SCALE 1" = 50'

ALEXANDRIA PROJECT NO.:	110104122
DATE OF PLAN ISSUANCE:	N/A
CONSULTANT PROJECT ID.:	N/A
DESIGNED BY:	MAT. DATE: 5/4/23
DRAWN BY:	AJB. DATE: 5/4/23
CHECKED BY:	EJD. DATE: 5/4/23
APPROVED BY:	DATE: 5/4/23

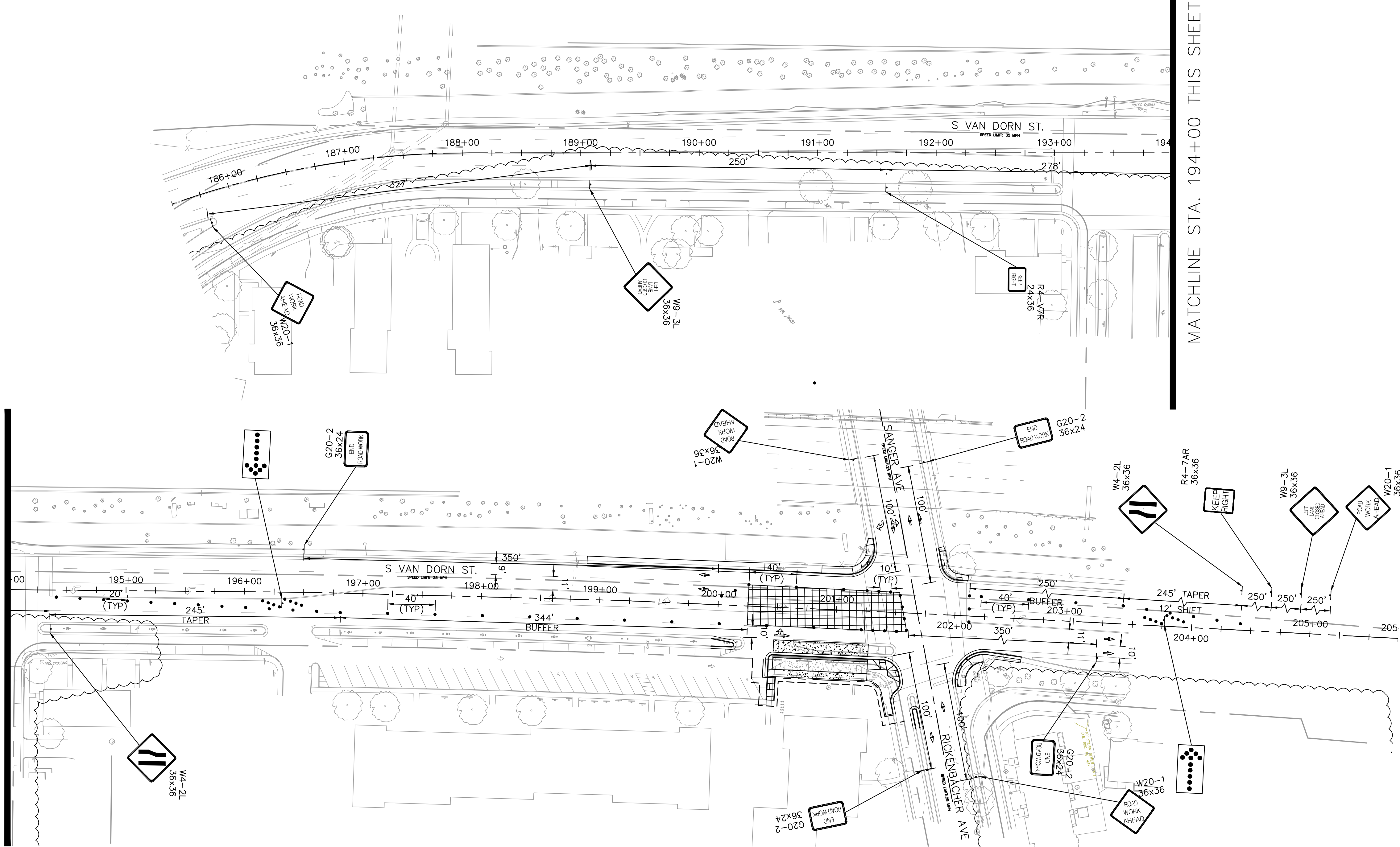
REVISIONS	DATE	DESCRIPTION

CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313



Plotted By: Phillips, Mark Sheet Set: West End Transitway - Phase 1 Layout: C-13066 MOT PHASE 4A July 12, 2024 07:39:26am K:\NVA_Traffic\10104122 West End Transitway Design\CADD\PlanSheets\MOT VAN DORN AND SANGER PH4A-C.dwg

MATCHLINE STA. 194+00 THIS SHEET



MATCHLINE STA. 194+00 THIS SHEET

LEGEND

	WORK ZONE		EXIST. PROPERTY LINE
	TEMPORARY TRAFFIC SIGN		PROP. PROPERTY LINE
	CHANNELIZING DEVICES		PROP. CONSTRUCTION EASEMENT
	GROUP 2: LONGITUDINAL CHANNELIZING DEVICES	PAVEMENT MARKING LEGEND	
	DIRECTION OF TRAFFIC		TYPE B, CLASS 1 WHITE 24" WIDTH
	EXISTING PAVEMENT MARKING		TYPE B, CLASS 1 WHITE 12" WIDTH
	TEMPORARY PAVEMENT MARKING		TYPE B, CLASS 1 DOUBLE YELLOW 4" WIDTH
	TYPE III BARRICADE		TYPE B, CLASS 1 WHITE 4" WIDTH
	DIRECTIONAL ARROW BOARD		TYPE B, CLASS 1 WHITE 8" WIDTH

NOTES

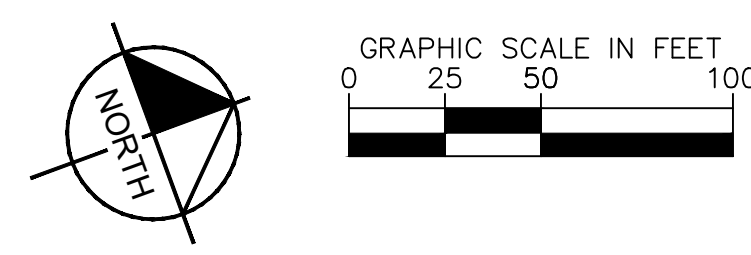
- CONTRACTOR TO MAINTAIN LOCAL ACCESS AT ALL TIMES
- EXISTING PAVEMENT MARKINGS ARE APPROXIMATE AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO IMPLEMENTING ANY TRAFFIC CONTROL MEASURES
- TEMPORARILY CLOSE BUS STOP. COORDINATE WITH DASH TO REDIRECT RIDERS OF ROUTE 31 TO THE STOP AT BEAUREGARD ST AND BRANCH AVE. COORDINATE WITH WMATA TO REDIRECT RIDERS TO OF ROUTE 7A TO THE STOP AT BEAUREGARD ST AND BRANCH AVE.
- THE CONTRACTOR MUST KEEP LANE OPEN DURING THE PEAK HOURS.

PROPOSED IMPROVEMENTS

- MILL & OVERLAY FROM STA. 200+25.28 TO STA. 201+47.85

SEQUENCE OF CONSTRUCTION

- PHASE 4A
 - THE CONTRACTOR SHALL SET UP EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
 - INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 42.2.
 - MILL AND OVERLAY THE NORTHBOUND AND SOUTHBOUND INSIDE LANE OF VAN DORN STREET FROM STA. 200+25.28 TO STA. 201+47.85.



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

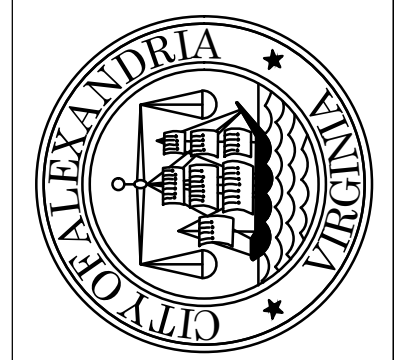
**MAINTENANCE OF TRAFFIC
PHASE 4A - N VAN DORN ST
AT SANGER AVE**

SHEET
C-1306G
SCALE 1" = 50'

REVISIONS	DATE	DESCRIPTION

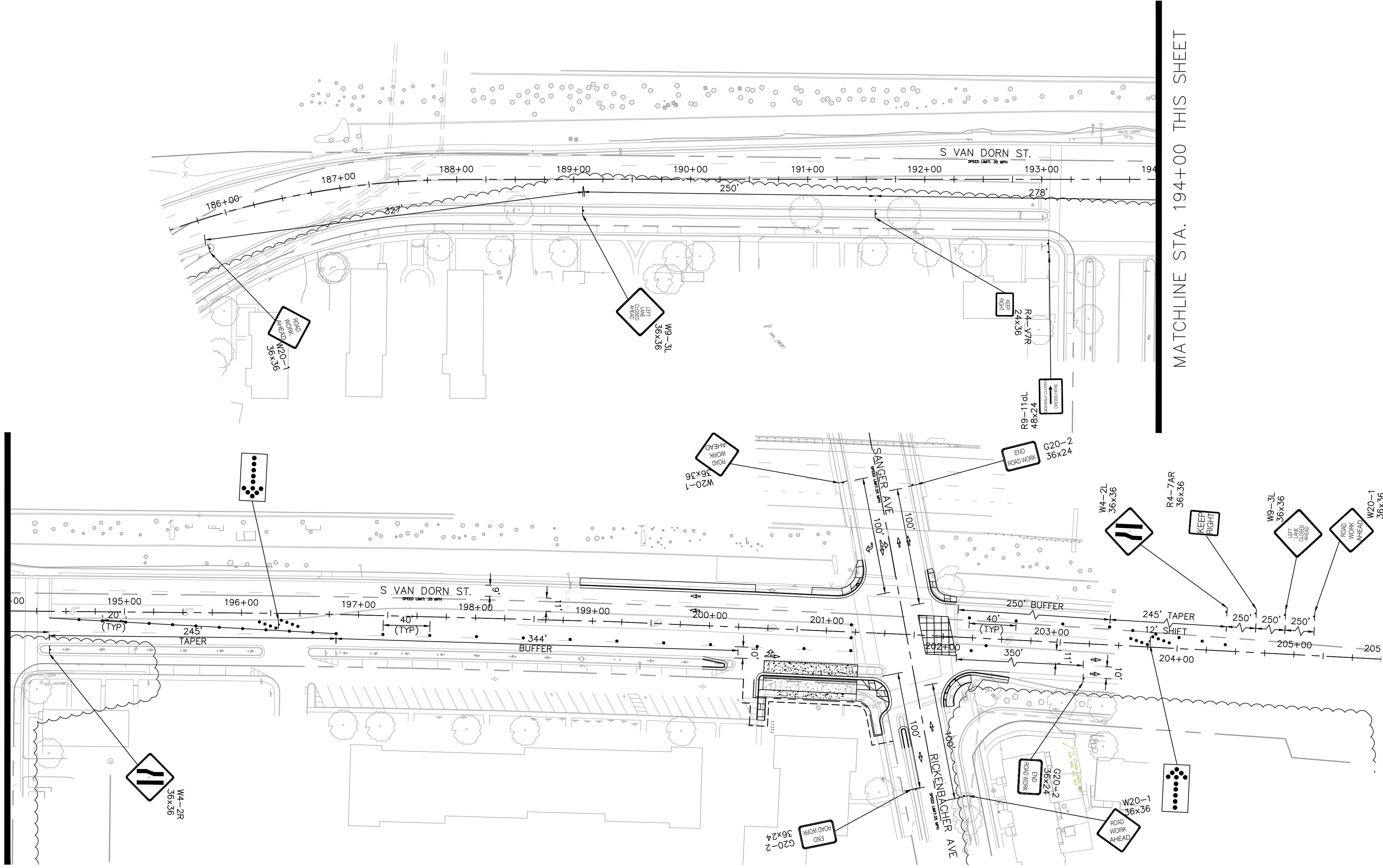
ALEXANDRIA PROJECT NO.: 110104122
 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: MAT DATE: 5/4/23
 DRAWN BY: AUB DATE: 5/4/23
 CHECKED BY: EJD DATE: 5/4/23
 APPROVED BY: DATE: 5/4/23

CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313



Plotted By: Phillips, Mark Sheet Set: West End Transitway - Phase 1 July 12, 2024 07:40:25am K:\NVA_Traffic\10104122_West End Transitway Design\CADD\PlanSheets\MOT VAN DORN AND SANGER PH4A-C.dwg

MATCHLINE STA. 194+00 THIS SHEET



MATCHLINE STA. 194+00 THIS SHEET

LEGEND

- | | | | |
|--|--|--------------------------------|--|
| | WORK ZONE | | EXIST. PROPERTY LINE |
| | TEMPORARY TRAFFIC SIGN | | PROP. PROPERTY LINE |
| | CHANNELIZING DEVICES | | PROP. CONSTRUCTION EASEMENT |
| | GROUP 2: LONGITUDINAL CHANNELIZING DEVICES | PAVEMENT MARKING LEGEND | |
| | DIRECTION OF TRAFFIC | | TYPE B, CLASS 1 WHITE 24" WIDTH |
| | EXISTING PAVEMENT MARKING | | TYPE B, CLASS 1 WHITE 12" WIDTH |
| | TEMPORARY PAVEMENT MARKING | | TYPE B, CLASS 1 DOUBLE YELLOW 4" WIDTH |
| | TYPE III BARRICADE | | TYPE B, CLASS 1 WHITE 4" WIDTH |
| | DIRECTIONAL ARROW BOARD | | TYPE B, CLASS 1 WHITE 8" WIDTH |

NOTES

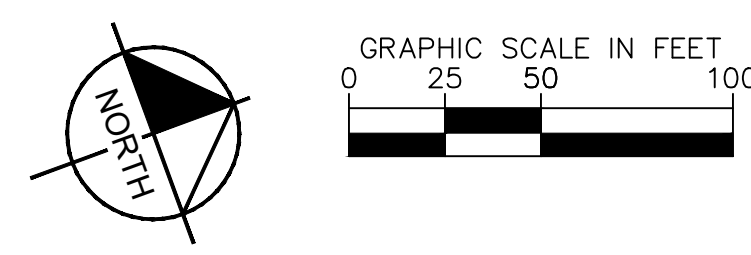
- CONTRACTOR TO MAINTAIN LOCAL ACCESS AT ALL TIMES
- EXISTING PAVEMENT MARKINGS ARE APPROXIMATE AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO IMPLEMENTING ANY TRAFFIC CONTROL MEASURES
- TEMPORARILY CLOSE BUS STOP. COORDINATE WITH DASH TO REDIRECT RIDERS OF ROUTE 31 TO THE STOP AT BEAUREGARD ST AND BRANCH AVE. COORDINATE WITH WMATA TO REDIRECT RIDERS TO OF ROUTE 7A TO THE STOP AT BEAUREGARD ST AND BRANCH AVE.
- THE CONTRACTOR MUST KEEP LANE OPEN DURING THE PEAK HOURS.

PROPOSED IMPROVEMENTS

- MILL & OVERLAY FROM STA. 201+77.41 TO STA. 202+11.90

SEQUENCE OF CONSTRUCTION

- PHASE 4B
 - THE CONTRACTOR SHALL SET UP EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
 - INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 42.2.
 - MILL AND OVERLAY THE NORTHBOUND AND SOUTHBOUND INSIDE LANE OF VAN DORN STREET FROM STA. 201+77.41 TO STA. 202+11.90.



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

**MAINTENANCE OF TRAFFIC
PHASE 4B - N VAN DORN ST
AT SANGER AVE**

SHEET
C-1306H
SCALE 1" = 50'

REVISIONS	DATE	DESCRIPTION

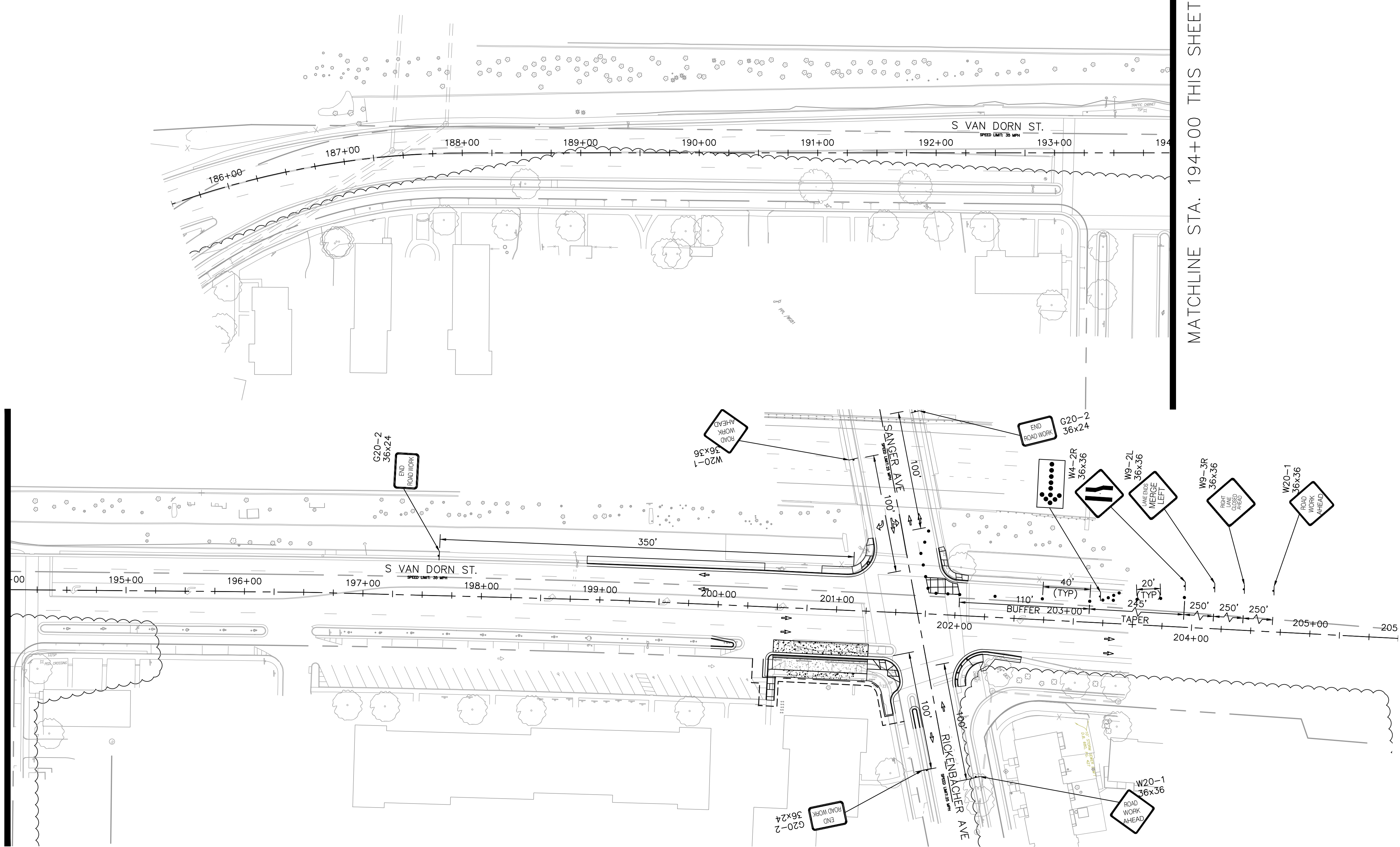
ALEXANDRIA PROJECT NO.: 110104122
 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: MAT. DATE: 5/4/23
 DRAWN BY: AUB. DATE: 5/4/23
 CHECKED BY: EJD. DATE: 5/4/23
 APPROVED BY: DATE: 5/4/23

CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313



Plotted By: Phillips, Mark Sheet Set: West End Transitway - Phase 1 Layout: C-1306J MOT PHASE 4C July 12, 2024 07:40:45am K:\NVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\MOT VAN DORN AND SANGER PH4A-C.dwg

MATCHLINE STA. 194+00 THIS SHEET



MATCHLINE STA. 194+00 THIS SHEET

LEGEND

- | | | | |
|--|--|--------------------------------|--|
| | WORK ZONE | | EXIST. PROPERTY LINE |
| | TEMPORARY TRAFFIC SIGN | | PROP. PROPERTY LINE |
| | CHANNELIZING DEVICES | | PROP. CONSTRUCTION EASEMENT |
| | GROUP 2: LONGITUDINAL CHANNELIZING DEVICES | PAVEMENT MARKING LEGEND | |
| | DIRECTION OF TRAFFIC | | TYPE B, CLASS 1 WHITE 24" WIDTH |
| | EXISTING PAVEMENT MARKING | | TYPE B, CLASS 1 WHITE 12" WIDTH |
| | TEMPORARY PAVEMENT MARKING | | TYPE B, CLASS 1 DOUBLE YELLOW 4" WIDTH |
| | TYPE III BARRICADE | | TYPE B, CLASS 1 WHITE 4" WIDTH |
| | DIRECTIONAL ARROW BOARD | | TYPE B, CLASS 1 WHITE 8" WIDTH |

NOTES

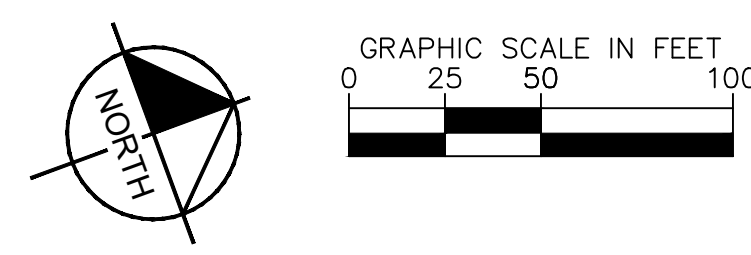
- CONTRACTOR TO MAINTAIN LOCAL ACCESS AT ALL TIMES
- EXISTING PAVEMENT MARKINGS ARE APPROXIMATE AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO IMPLEMENTING ANY TRAFFIC CONTROL MEASURES
- TEMPORARILY CLOSE BUS STOP. COORDINATE WITH DASH TO REDIRECT RIDERS OF ROUTE 31 TO THE STOP AT BEAUREGARD ST AND BRANCH AVE. COORDINATE WITH WMATA TO REDIRECT RIDERS TO OF ROUTE 7A TO THE STOP AT BEAUREGARD ST AND BRANCH AVE.
- THE CONTRACTOR MUST KEEP LANE OPEN DURING THE PEAK HOURS.

PROPOSED IMPROVEMENTS

- MILL & OVERLAY FROM STA. 201+73.88 TO STA. 202+03.18

SEQUENCE OF CONSTRUCTION

- PHASE 4C
 - THE CONTRACTOR SHALL SET UP EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
 - INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 16.2.
 - MILL AND OVERLAY THE NORTHBOUND OUTSIDE LANE OF VAN DORN STREET FROM STA. 201+73.88 TO STA. 202+03.18.



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

**MAINTENANCE OF TRAFFIC
PHASE 4C - N VAN DORN ST
AT SANGER AVE**

SHEET
C-1306J
SCALE 1" = 50'

REVISIONS	DATE	DESCRIPTION

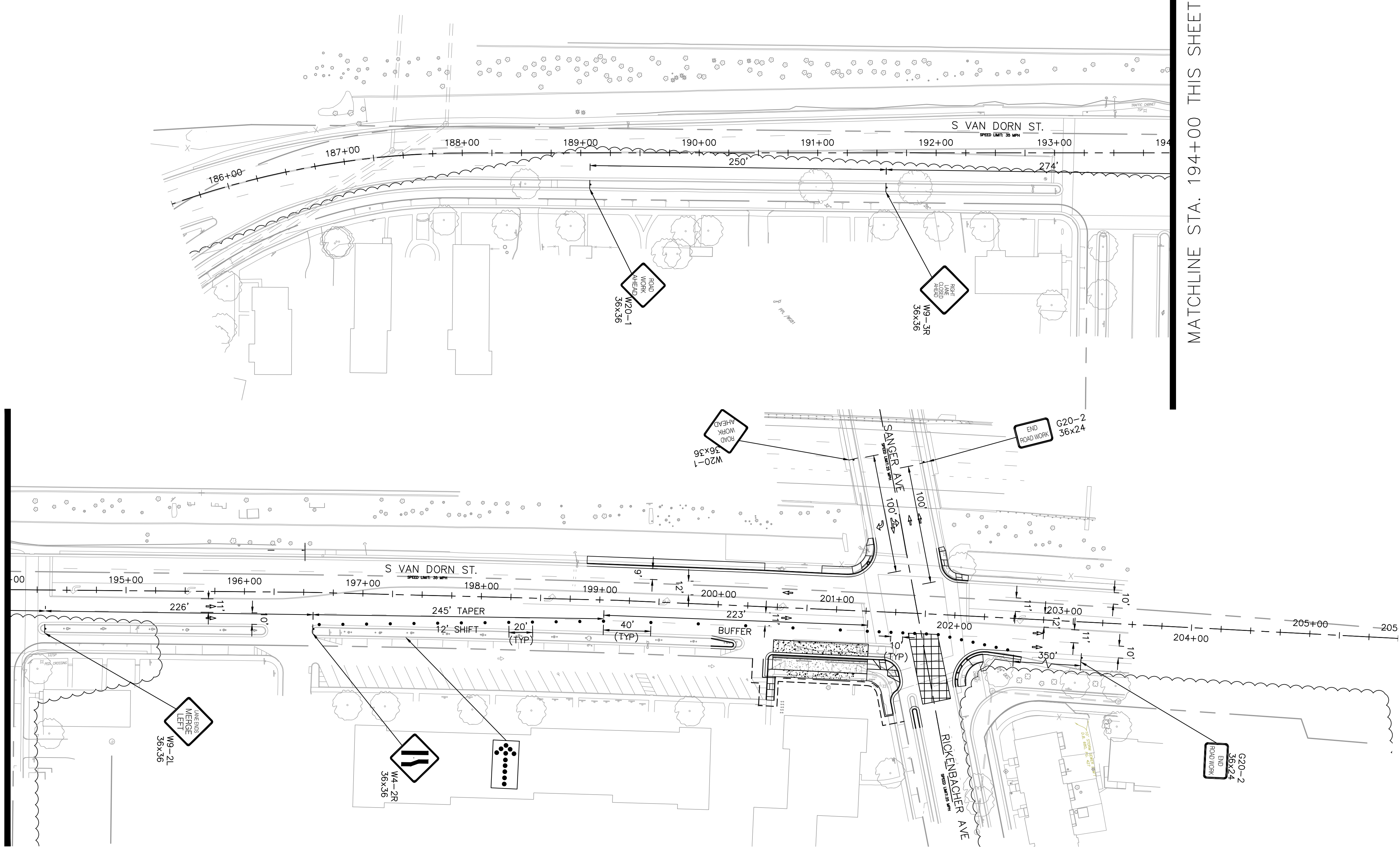
ALEXANDRIA PROJECT NO.: 110104122
 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: MAT. DATE: 5/4/23
 DRAWN BY: AUB. DATE: 5/4/23
 CHECKED BY: EJD. DATE: 5/4/23
 APPROVED BY: DATE: 5/4/23

CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313



Plotted By: Phillips, Mark Sheet Set: West End Transitway - Phase 1 Layout: C-1306L MOT PHASE 4E July 12, 2024 07:41:36am K:\NVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\MOT VAN DORN AND SANGER PH4A-G.dwg

MATCHLINE STA. 194+00 THIS SHEET



MATCHLINE STA. 194+00 THIS SHEET

LEGEND

	WORK ZONE
	TEMPORARY TRAFFIC SIGN
	CHANNELIZING DEVICES
	GROUP 2: LONGITUDINAL CHANNELIZING DEVICES
	DIRECTION OF TRAFFIC
	EXISTING PAVEMENT MARKING
	TEMPORARY PAVEMENT MARKING
	TYPE III BARRICADE
	DIRECTIONAL ARROW BOARD

	EXIST. PROPERTY LINE
	PROP. PROPERTY LINE
	PROP. CONSTRUCTION EASEMENT

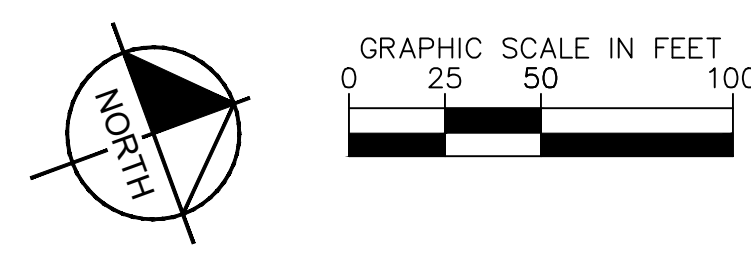
PAVEMENT MARKING LEGEND

	TYPE B, CLASS 1 WHITE 24" WIDTH
	TYPE B, CLASS 1 WHITE 12" WIDTH
	TYPE B, CLASS 1 DOUBLE YELLOW 4" WIDTH
	TYPE B, CLASS 1 WHITE 4" WIDTH
	TYPE B, CLASS 1 WHITE 8" WIDTH

- NOTES**
- CONTRACTOR TO MAINTAIN LOCAL ACCESS AT ALL TIMES
 - EXISTING PAVEMENT MARKINGS ARE APPROXIMATE AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO IMPLEMENTING ANY TRAFFIC CONTROL MEASURES
 - TEMPORARILY CLOSE BUS STOP. COORDINATE WITH DASH TO REDIRECT RIDERS OF ROUTE 31 TO THE STOP AT BEAUREGARD ST AND BRANCH AVE. COORDINATE WITH WMATA TO REDIRECT RIDERS TO OF ROUTE 7A TO THE STOP AT BEAUREGARD ST AND BRANCH AVE.
 - THE CONTRACTOR MUST KEEP LANE OPEN DURING THE PEAK HOURS.

- PROPOSED IMPROVEMENTS**
- MILL & OVERLAY FROM STA. 201+61.42 TO STA. 200+00.00

- SEQUENCE OF CONSTRUCTION**
- PHASE 4E
 - THE CONTRACTOR SHALL SET UP EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
 - INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 16.2.
 - MILL AND OVERLAY THE NORTHBOUND OUTSIDE LANE OF VAN DORN STREET THROUGH THE INTERSECTION WITH SANGER AVENUE FROM STA. 201+61.42 TO STA. 200+00.00.



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

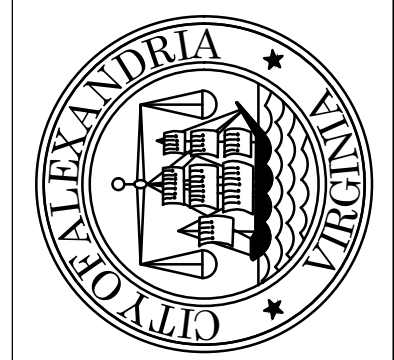
**MAINTENANCE OF TRAFFIC
PHASE 4E - N VAN DORN ST
AT SANGER AVE**

SHEET
C-1306L
SCALE 1" = 50'

REVISIONS	DATE	DESCRIPTION






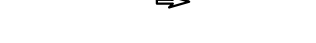


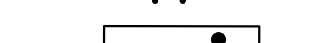
ALEXANDRIA PROJECT NO.: 110104122
 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: MAT. DATE: 5/4/23
 DRAWN BY: AUB. DATE: 5/4/23
 CHECKED BY: EJD. DATE: 5/4/23
 APPROVED BY: DATE: 5/4/23

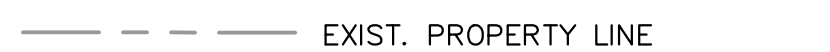

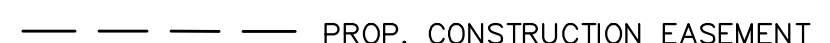

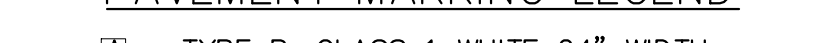


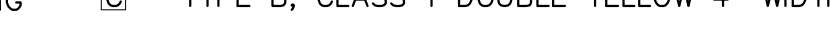
CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313



Plotted By: Phillips, Mark Sheet Set: West End Transitway - Phase 1 Layout: C-1306M MOT PHASE 4F July 12, 2024 07:41:59am K:\NVA_Transit\10104122_West End Transitway Design\CADD\PlanSheets\MOT VAN DORN AND SANGER PH4A-C.dwg

LEGEND

-  WORK ZONE
-  TEMPORARY TRAFFIC SIGN
-  CHANNELIZING DEVICES
-  GROUP 2: LONGITUDINAL CHANNELIZING DEVICES
-  DIRECTION OF TRAFFIC
-  EXISTING PAVEMENT MARKING
-  TEMPORARY PAVEMENT MARKING
-  TYPE III BARRICADE
-  DIRECTIONAL ARROW BOARD

-  EXIST. PROPERTY LINE
 -  PROP. PROPERTY LINE
 -  PROP. CONSTRUCTION EASEMENT
- PAVEMENT MARKING LEGEND**
-  TYPE B, CLASS 1 WHITE 24" WIDTH
 -  TYPE B, CLASS 1 WHITE 12" WIDTH
 -  TYPE B, CLASS 1 DOUBLE YELLOW 4" WIDTH
 -  TYPE B, CLASS 1 WHITE 4" WIDTH
 -  TYPE B, CLASS 1 WHITE 8" WIDTH

NOTES

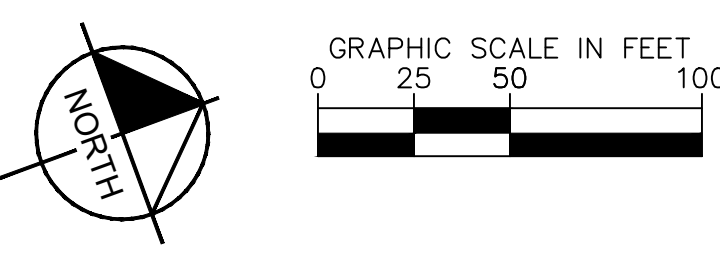
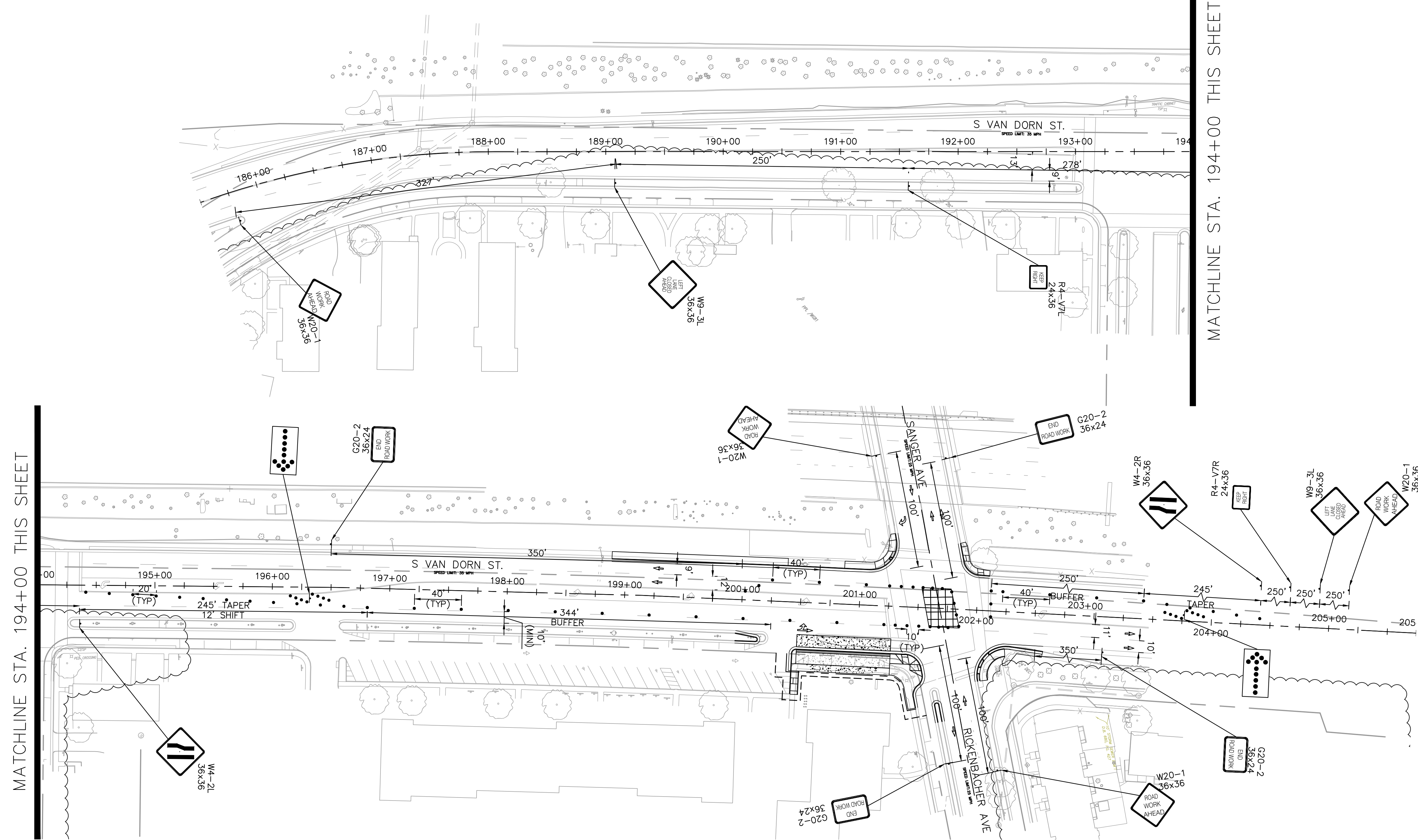
1. CONTRACTOR TO MAINTAIN LOCAL ACCESS AT ALL TIMES
2. EXISTING PAVEMENT MARKINGS ARE APPROXIMATE AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO IMPLEMENTING ANY TRAFFIC CONTROL MEASURES
3. TEMPORARILY CLOSE BUS STOP. COORDINATE WITH DASH TO REDIRECT RIDERS OF ROUTE 31 TO THE STOP AT BEAUREGARD ST AND BRANCH AVE. COORDINATE WITH WMATA TO REDIRECT RIDERS TO OF ROUTE 7A TO THE STOP AT BEAUREGARD ST AND BRANCH AVE.
4. THE CONTRACTOR MUST KEEP LANE OPEN DURING THE PEAK HOURS.

PROPOSED IMPROVEMENTS

1. MILL & OVERLAY FROM STA. 201+77.41 TO STA. 202+11.90

SEQUENCE OF CONSTRUCTION

1. PHASE 4F
 - 1.1. THE CONTRACTOR SHALL SET UP EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
 - 1.2. INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 42.2.
 - 1.3. MILL AND OVERLAY THE NORTHBOUND AND SOUTHBOUND INSIDE LANE OF VAN DORN STREET THROUGH THE INTERSECTION WITH SANGER AVENUE FROM STA. 201+77.41 TO STA. 202+11.90.



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

**MAINTENANCE OF TRAFFIC
PHASE 4F - N VAN DORN ST
AT SANGER AVE**

SHEET
C-1306M
SCALE 1" = 50'

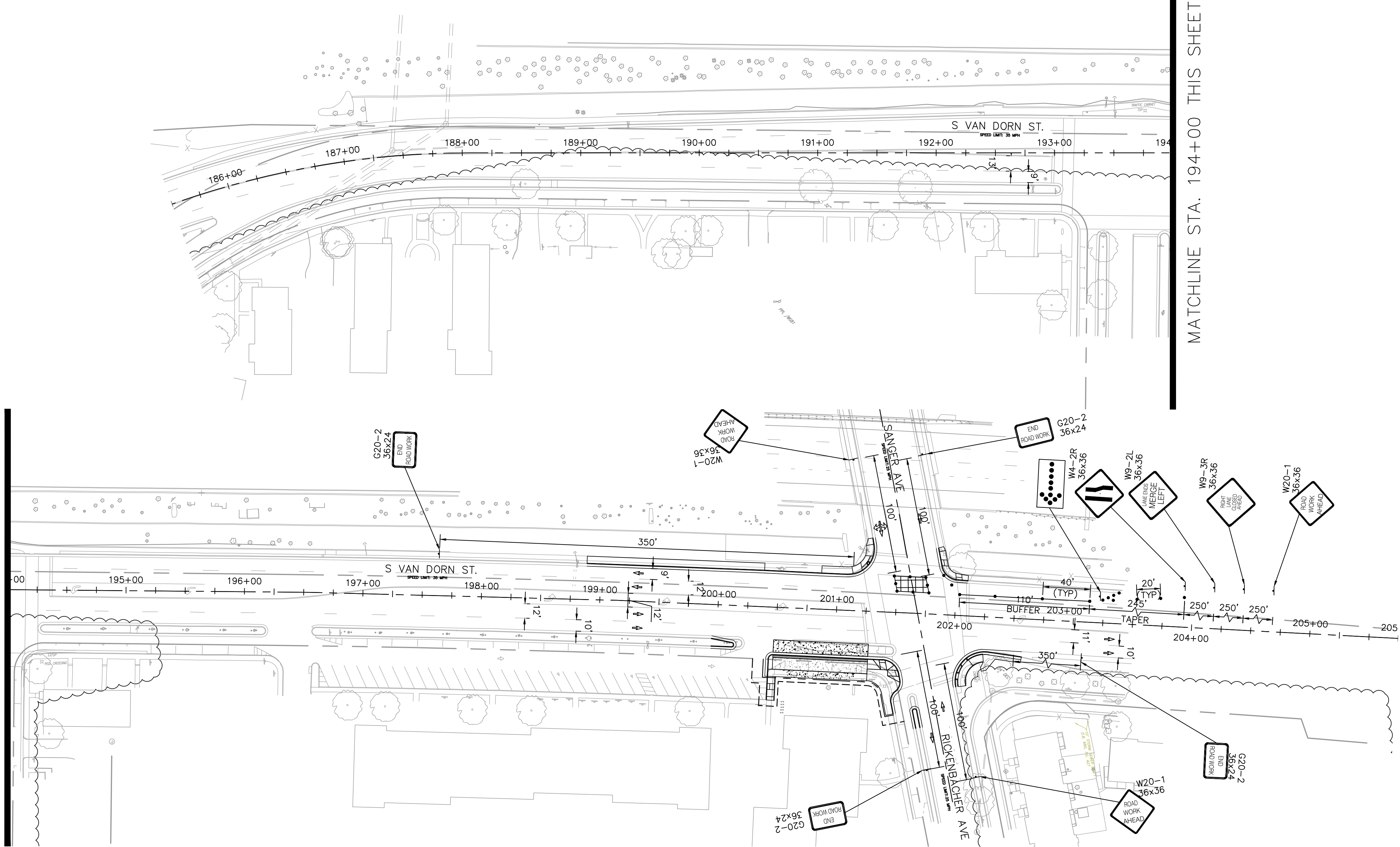
REVISIONS	DATE	DESCRIPTION

CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313



Plotted By: Phillips, Mark Sheet Set: West End Transitway - Phase 1 Layout: C-1306N MOT PHASE 4G July 12, 2024 07:42:23am K:\NVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\MOT VAN DORN AND SANGER PH4A-C.dwg

MATCHLINE STA. 194+00 THIS SHEET



MATCHLINE STA. 194+00 THIS SHEET

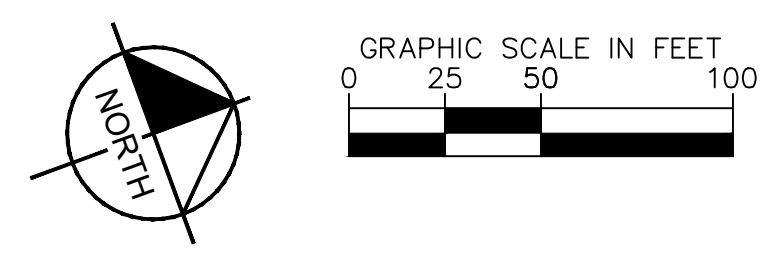
LEGEND	
	WORK ZONE
	TEMPORARY TRAFFIC SIGN
	CHANNELIZING DEVICES
	GROUP 2: LONGITUDINAL CHANNELIZING DEVICES
	DIRECTION OF TRAFFIC
	EXISTING PAVEMENT MARKING
	TEMPORARY PAVEMENT MARKING
	TYPE III BARRICADE
	DIRECTIONAL ARROW BOARD

PAVEMENT MARKING LEGEND	
	EXIST. PROPERTY LINE
	PROP. PROPERTY LINE
	PROP. CONSTRUCTION EASEMENT
	TYPE B, CLASS 1 WHITE 24" WIDTH
	TYPE B, CLASS 1 WHITE 12" WIDTH
	TYPE B, CLASS 1 DOUBLE YELLOW 4" WIDTH
	TYPE B, CLASS 1 WHITE 4" WIDTH
	TYPE B, CLASS 1 WHITE 8" WIDTH

- NOTES**
- CONTRACTOR TO MAINTAIN LOCAL ACCESS AT ALL TIMES
 - EXISTING PAVEMENT MARKINGS ARE APPROXIMATE AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO IMPLEMENTING ANY TRAFFIC CONTROL MEASURES
 - TEMPORARILY CLOSE BUS STOP. COORDINATE WITH DASH TO REDIRECT RIDERS OF ROUTE 31 TO THE STOP AT BEAUREGARD ST AND BRANCH AVE. COORDINATE WITH WMATA TO REDIRECT RIDERS TO OF ROUTE 7A TO THE STOP AT BEAUREGARD ST AND BRANCH AVE.
 - THE CONTRACTOR MUST KEEP LANE OPEN DURING THE PEAK HOURS.

- PROPOSED IMPROVEMENTS**
- MILL & OVERLAY FROM STA. 201+47.36 TO STA. 201+77.18

- SEQUENCE OF CONSTRUCTION**
- PHASE 4G
 - THE CONTRACTOR SHALL SET UP EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
 - INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 16.2.
 - MILL AND OVERLAY THE SOUTHBOUND OUTSIDE LANE OF VAN DORN STREET THROUGH THE INTERSECTION WITH SANGER AVENUE FROM STA. 201+47.36 TO STA. 201+77.18.



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

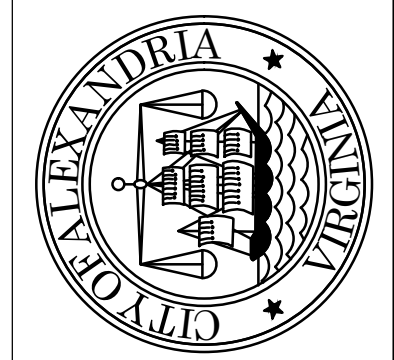
90% DESIGN PHASE

**MAINTENANCE OF TRAFFIC
PHASE 4G - N VAN DORN ST
AT SANGER AVE**

SHEET
C-1306N
SCALE 1" = 50'

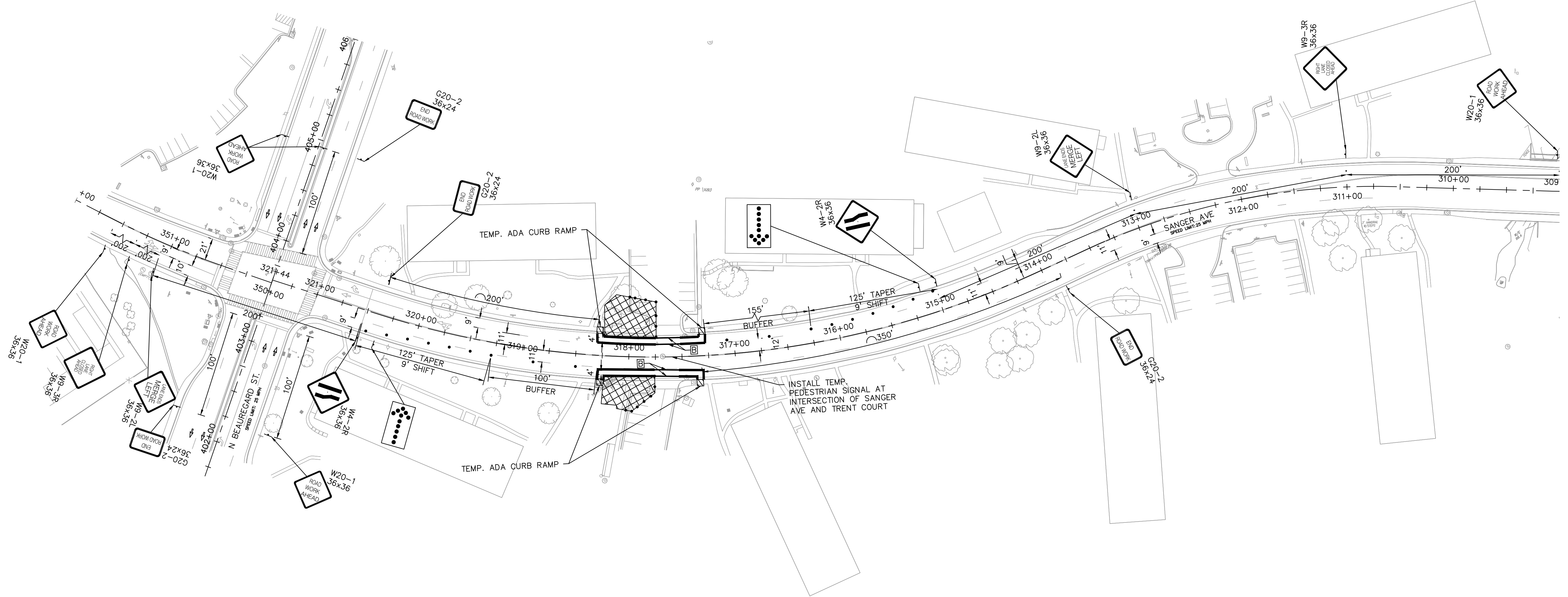
REVISIONS	DATE	DESCRIPTION

CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313



ALEXANDRIA PROJECT NO.:	110104122
DATE OF PLAN ISSUANCE:	N/A
CONSULTANT PROJECT ID.:	N/A
DESIGNED BY:	MAT. DATE: 5/4/23
DRAWN BY:	AJB. DATE: 5/4/23
CHECKED BY:	EJD. DATE: 5/4/23
APPROVED BY:	DATE: 5/4/23

Plotted By: Grovitt, Sydney Sheet Set: West End Transitway - Phase 1 Layout: C-114 ROADWAY PLAN May 05, 2023 03:09:34pm K:\NVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\ROADWAY PLAN.dwg



LEGEND

	WORK ZONE
	TEMPORARY TRAFFIC SIGN
	CHANNELIZING DEVICES
	GROUP 2: LONGITUDINAL CHANNELIZING DEVICES
	DIRECTION OF TRAFFIC
	EXISTING PAVEMENT MARKING
	TEMPORARY PAVEMENT MARKING
	TYPE III BARRICADE
	DIRECTIONAL ARROW BOARD

	EXIST. PROPERTY LINE
	PROP. PROPERTY LINE
	PROP. CONSTRUCTION EASEMENT

PAVEMENT MARKING LEGEND

	TYPE B, CLASS 1 WHITE 24" WIDTH
	TYPE B, CLASS 1 WHITE 12" WIDTH
	TYPE B, CLASS 1 DOUBLE YELLOW 4" WIDTH
	TYPE B, CLASS 1 WHITE 4" WIDTH
	TYPE B, CLASS 1 WHITE 8" WIDTH

NOTES

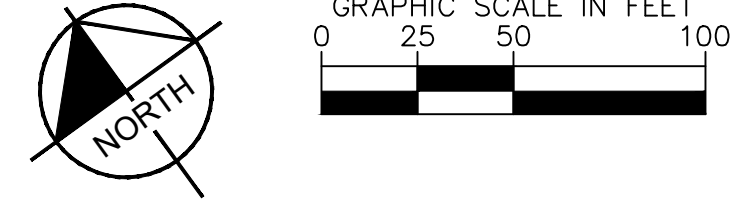
- CONTRACTOR TO MAINTAIN LOCAL ACCESS AT ALL TIMES
- EXISTING PAVEMENT MARKINGS ARE APPROXIMATE AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO IMPLEMENTING ANY TRAFFIC CONTROL MEASURES
- TEMPORARILY CLOSE BUS STOP. COORDINATE WITH DASH TO REDIRECT RIDERS OF ROUTE 31 TO THE STOP AT BEAUREGARD ST AND BRANCH AVE. COORDINATE WITH WMATA TO REDIRECT RIDERS TO OF ROUTE 7A TO THE STOP AT BEAUREGARD ST AND BRANCH AVE.
- THE CONTRACTOR MUST KEEP LANE OPEN DURING THE PEAK HOURS.

PROPOSED IMPROVEMENTS

- SIDEWALK FROM STA. 317+75.74 TO STA. 318+25.58
- CURB AND GUTTER FROM STA. STA. 317+75.74 TO STA. 318+25.58
- CURB RAMPS FROM STA. STA. 317+75.74 TO STA. 318+25.58
- PEDESTRIAN SIGNAL STA. 317+75.74 TO STA. 318+25.58

SEQUENCE OF CONSTRUCTION

- PHASE 1
 - THE CONTRACTOR SHALL SET UP PHASE 1 EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
 - INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 16.2 AND 35.1.
 - CONSTRUCT THE CURB RAMPS, SIDEWALK, CURB AND GUTTER, AND THE PEDESTRIAN SIGNAL AT THE INTERSECTION OF SANGER AVENUE AND TRENT COURT FROM STA. 317+75.74 TO STA. 318+25.58.



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS 90% DESIGN PHASE



CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

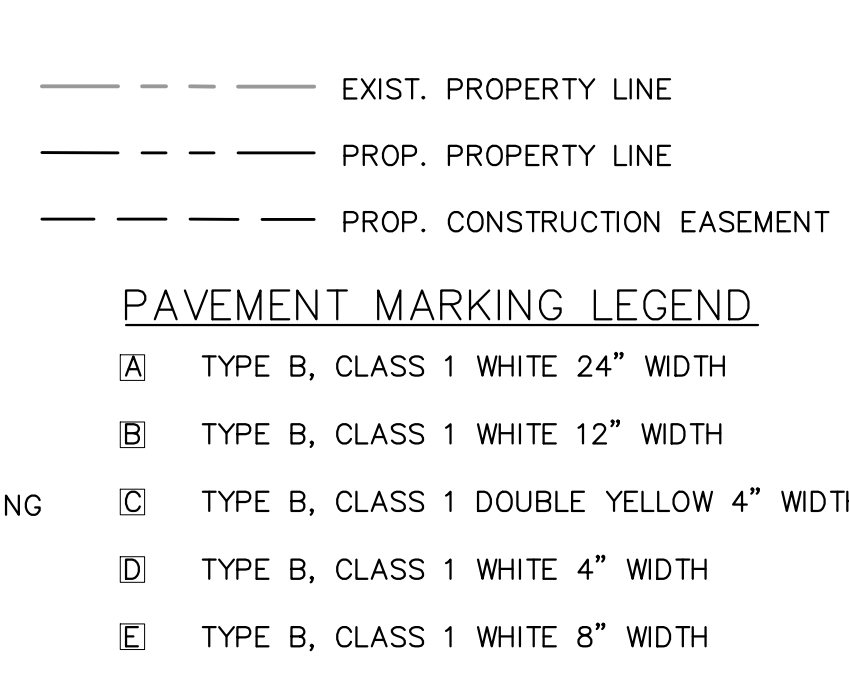
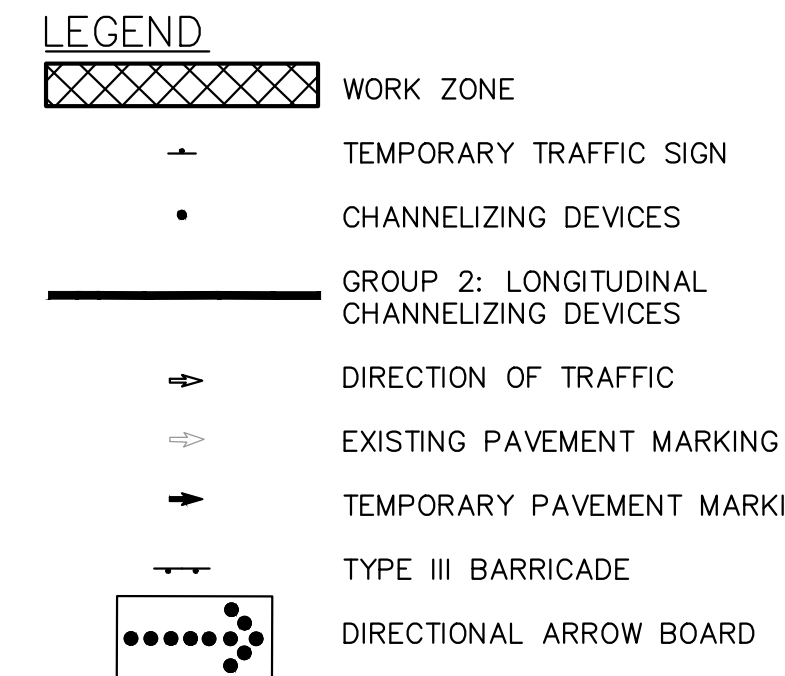
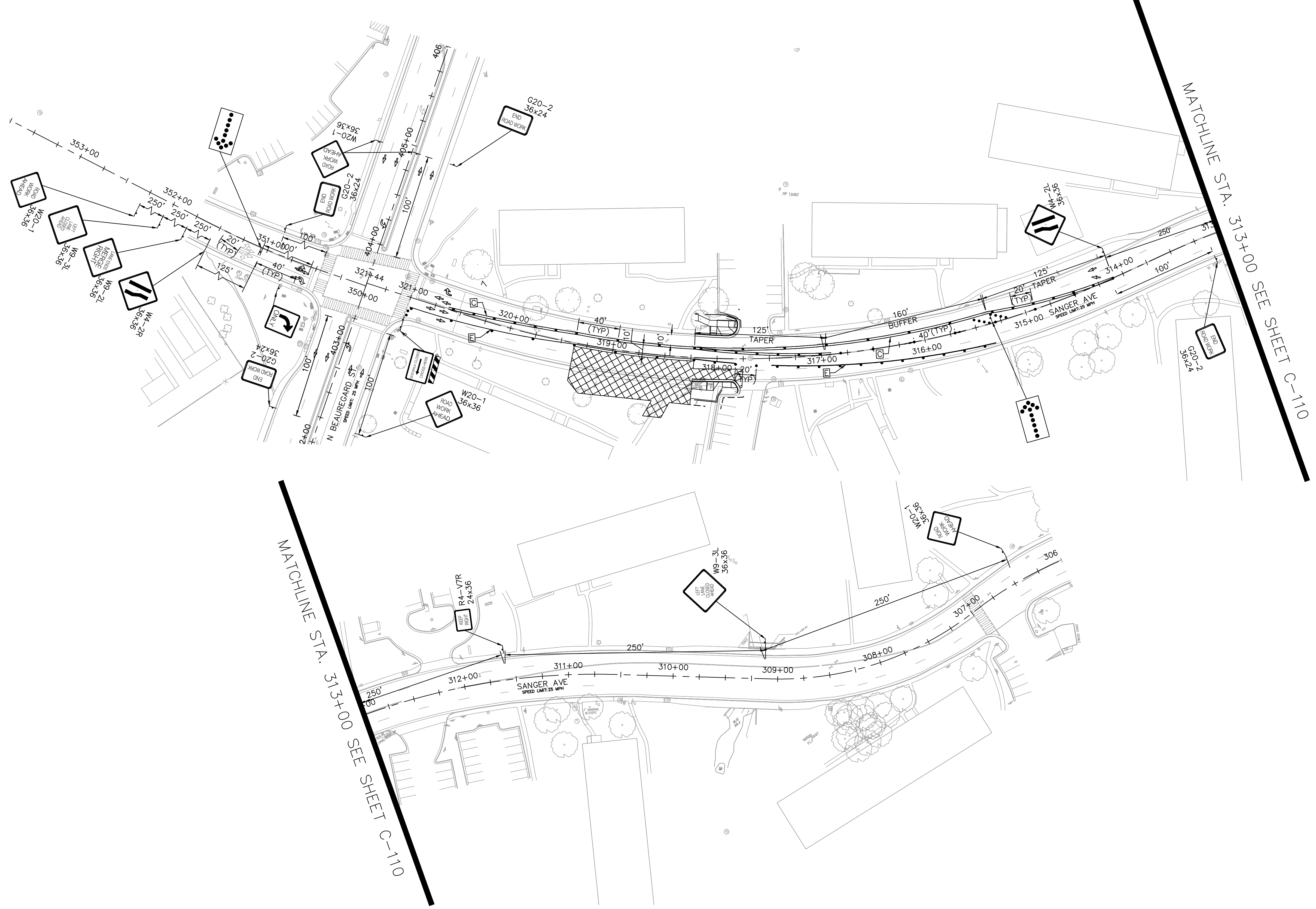
REVISIONS	DESCRIPTION
DATE	BY

ALEXANDRIA PROJECT NO.:	110104122
DATE OF PLAN ISSUANCE:	N/A
CONSULTANT PROJECT ID.:	N/A
DESIGNED BY:	EJD DATE: 5/5/23
DRAWN BY:	SJC DATE: 5/5/23
CHECKED BY:	EJD DATE: 5/5/23
APPROVED BY:	DATE: 5/5/23

MAINTENANCE OF TRAFFIC
PHASE 1 - BEAUREGARD ST
AT SANGER AVE

SHEET
 C-1307A
 SCALE 1" = 50'

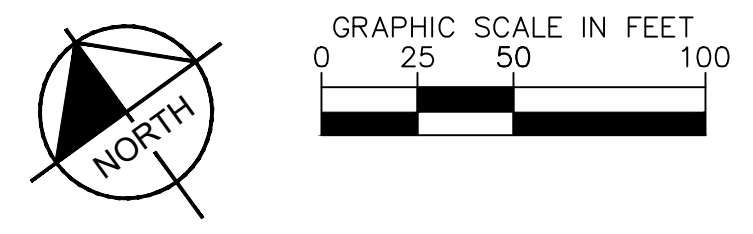
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- NOTES**
- CONTRACTOR TO MAINTAIN LOCAL ACCESS AT ALL TIMES
 - EXISTING PAVEMENT MARKINGS ARE APPROXIMATE AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO IMPLEMENTING ANY TRAFFIC CONTROL MEASURES
 - TEMPORARILY CLOSE BUS STOP. COORDINATE WITH DASH TO REDIRECT RIDERS OF ROUTE 31 TO THE STOP AT BEAUREGARD ST AND BRANCH AVE. COORDINATE WITH WMATA TO REDIRECT RIDERS TO OF ROUTE 7A TO THE STOP AT BEAUREGARD ST AND BRANCH AVE.
 - THE CONTRACTOR MUST KEEP LANE OPEN DURING THE PEAK HOURS.

- PROPOSED IMPROVEMENTS**
- SIDEWALK FROM STA. 317+75.74 TO STA. 319+37.19
 - PLATFORM FROM STA. 317+75.74 TO STA. 319+37.19
 - CURB AND GUTTER FROM STA. 317+75.74 TO STA. 319+37.19
 - CONCRETE BUS PAD FROM STA. 317+75.74 TO STA. 319+37.19
 - MILL & OVERLAY FROM STA. 317+75.74 TO STA. 319+37.19

- SEQUENCE OF CONSTRUCTION**
- PHASE 2A
 - THE CONTRACTOR SHALL SET UP EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
 - INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 35.1, 41.2 AND 60.0.
 - CONSTRUCT THE SIDEWALK, PLATFORM, CURB AND GUTTER, AND CONCRETE BUS PAD FOR THE EASTBOUND BUS STATIONS AND OUTSIDE LANE MILL AND OVERLAY ALONG SANGER AVENUE FROM STA. 317+75.74 TO STA. 319+37.19.



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

MAINTENANCE OF TRAFFIC
PHASE 2A - BEAUREGARD ST
AT SANGER AVE

90% DESIGN PHASE

CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

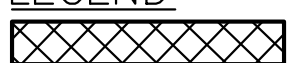


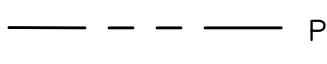

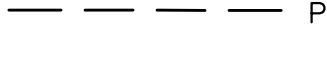











REVISIONS	DATE	DESCRIPTION

ALEXANDRIA PROJECT NO.: 110104122	DATE OF PLAN ISSUANCE: N/A	CONSULTANT PROJECT ID: N/A
DESIGNED BY: EJD	DATE: 5/5/23	DRAWN BY: SJC
CHECKED BY: EJD	DATE: 5/5/23	APPROVED BY: EJD

SHEET C-1307B
SCALE 1" = 50'

Plotted By: Grovitt, Sydney Sheet Set: West End Transitway - Phase 1 Layout: C-114 ROADWAY PLAN May 05, 2023 03:09:34pm K:\NVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\ROADWAY PLAN.dwg

LEGEND

	WORK ZONE		EXIST. PROPERTY LINE
	TEMPORARY TRAFFIC SIGN		PROP. PROPERTY LINE
	CHANNELIZING DEVICES		PROP. CONSTRUCTION EASEMENT
	GROUP 2: LONGITUDINAL CHANNELIZING DEVICES	PAVEMENT MARKING LEGEND	
	DIRECTION OF TRAFFIC		TYPE B, CLASS 1 WHITE 24" WIDTH
	EXISTING PAVEMENT MARKING		TYPE B, CLASS 1 WHITE 12" WIDTH
	TEMPORARY PAVEMENT MARKING		TYPE B, CLASS 1 DOUBLE YELLOW 4" WIDTH
	TYPE III BARRICADE		TYPE B, CLASS 1 WHITE 4" WIDTH
	DIRECTIONAL ARROW BOARD		TYPE B, CLASS 1 WHITE 8" WIDTH

NOTES

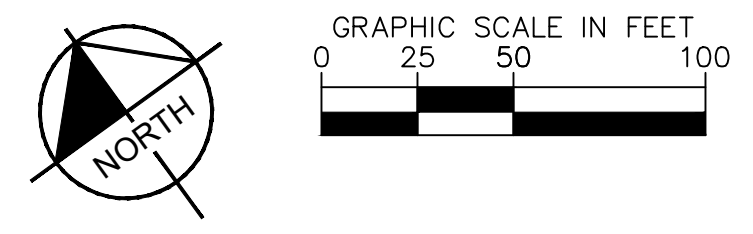
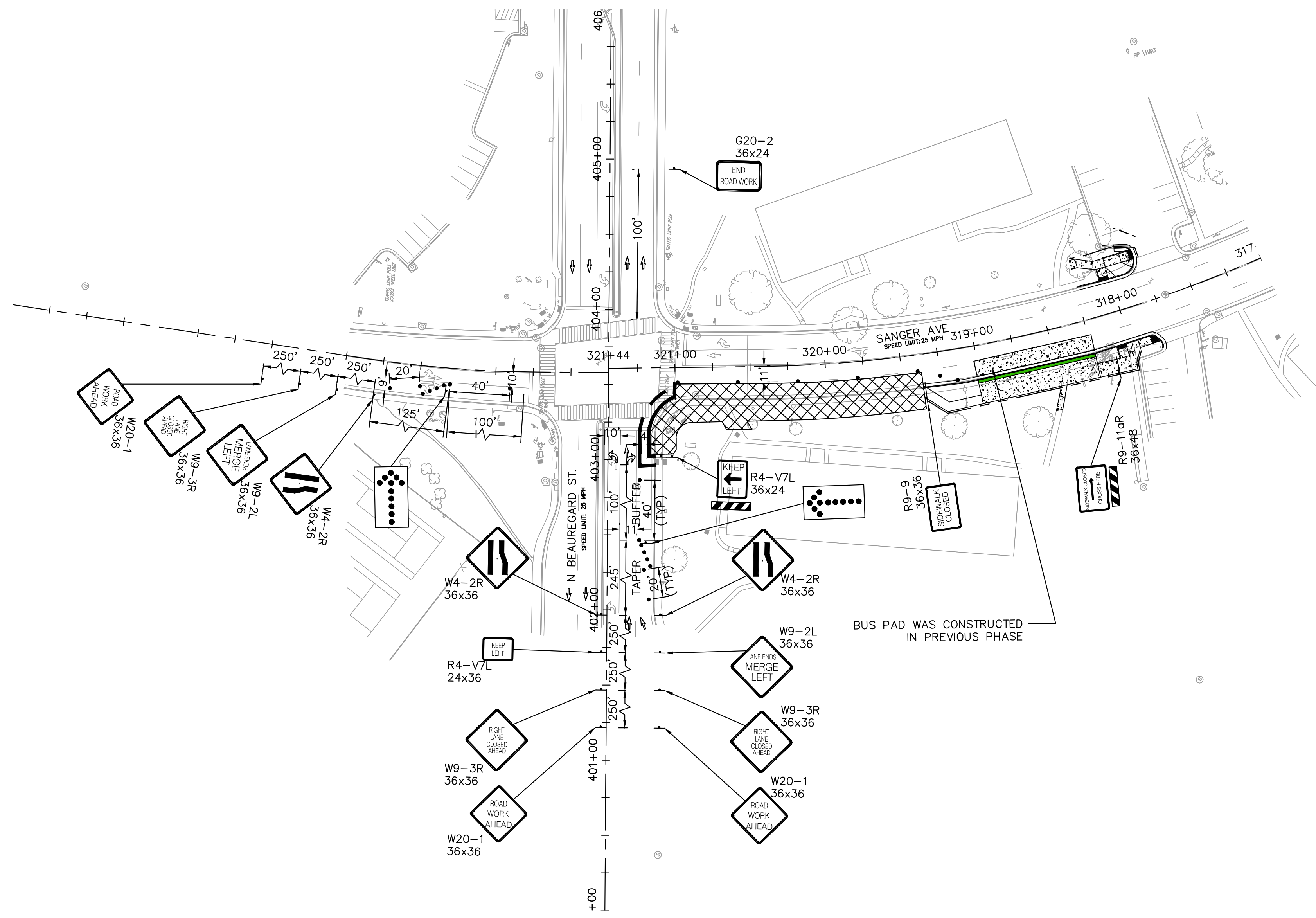
- CONTRACTOR TO MAINTAIN LOCAL ACCESS AT ALL TIMES
- EXISTING PAVEMENT MARKINGS ARE APPROXIMATE AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO IMPLEMENTING ANY TRAFFIC CONTROL MEASURES
- TEMPORARILY CLOSE BUS STOP. COORDINATE WITH DASH TO REDIRECT RIDERS OF ROUTE 31 TO THE STOP AT BEAUREGARD ST AND BRANCH AVE. COORDINATE WITH WMATA TO REDIRECT RIDERS TO OF ROUTE 7A TO THE STOP AT BEAUREGARD ST AND BRANCH AVE.
- THE CONTRACTOR MUST KEEP LANE OPEN DURING THE PEAK HOURS.

PROPOSED IMPROVEMENTS

- SIDEWALK FROM STA. 319+37.19 TO STA. 321+17.24
- CURB AND GUTTER FROM STA. 319+37.19 TO STA. 321+17.24
- MILL & OVERLAY FROM STA. 319+37.19 TO STA. 321+17.24

SEQUENCE OF CONSTRUCTION

- PHASE 2B
 - THE CONTRACTOR SHALL SET UP PHASE 1 EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
 - INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 16.2 AND 35.1.
 - CONSTRUCT THE SIDEWALK, CURB AND GUTTER, AND OUTSIDE LANE MILL AND OVERLAY ALONG EASTBOUND SANGER AVENUE FROM STA. 319+37.19 TO STA. 321+17.24.



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

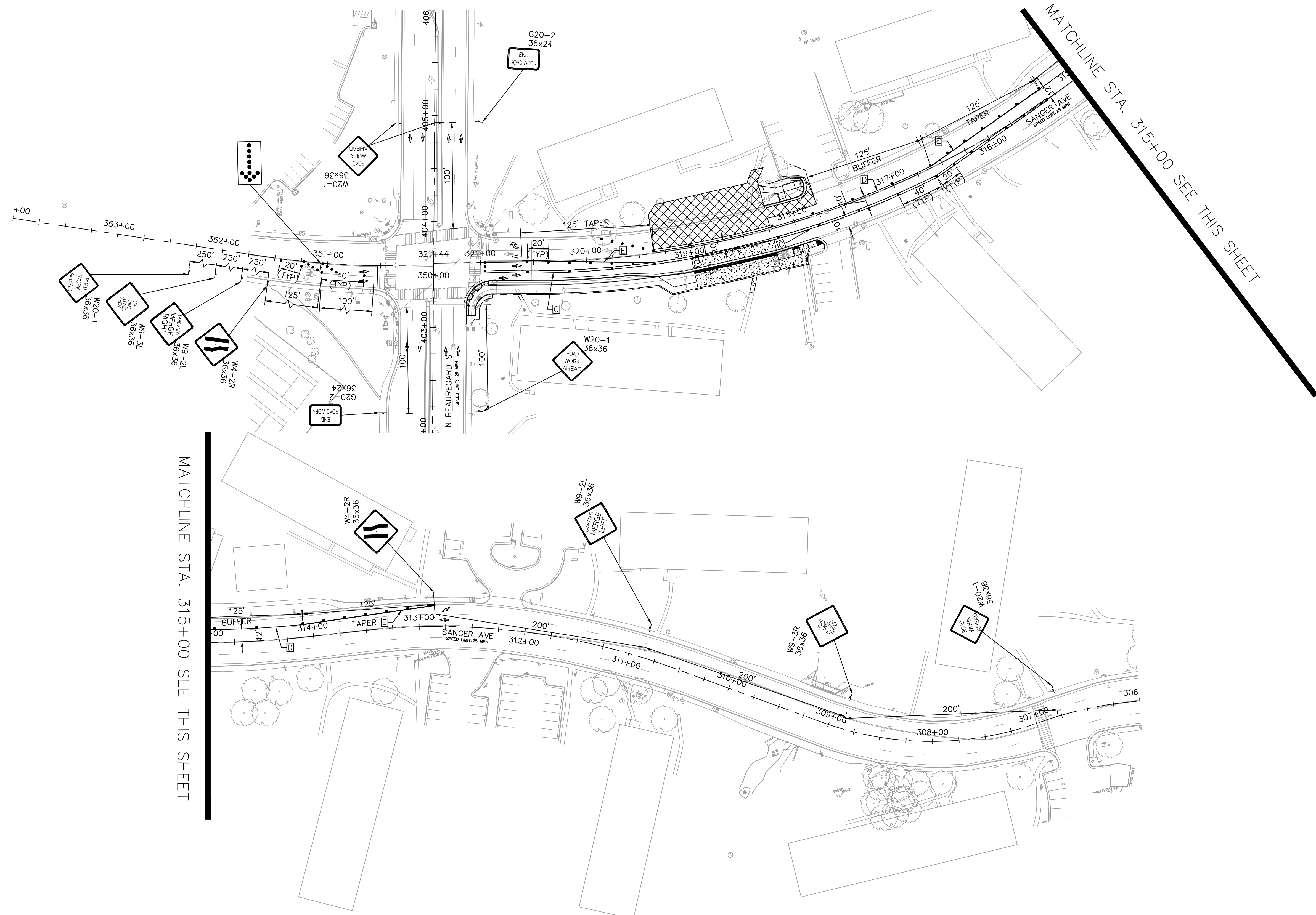
REVISIONS	DATE	DESCRIPTION

ALEXANDRIA PROJECT NO.:	110104122
DATE OF PLAN ISSUANCE:	N/A
CONSULTANT PROJECT ID.:	N/A
DESIGNED BY:	EJD DATE: 5/5/23
DRAWN BY:	SJC DATE: 5/5/23
CHECKED BY:	EJD DATE: 5/5/23
APPROVED BY:	DATE: 5/5/23

**MAINTENANCE OF TRAFFIC
PHASE 2B - BEAUREGARD ST
AT SANGER AVE**

SHEET
C-1307C
SCALE 1" = 50'

Plotted By: Grovitt, Sydney Sheet Set: West End Transitway - Phase 1 Layout: C-114 ROADWAY PLAN May 05, 2023 03:09:34pm K:\NVA_Transit\10104122_West End Transitway Design\CADD\PlanSheets\ROADWAY PLAN.dwg



MATCHLINE STA. 315+00 SEE THIS SHEET

MATCHLINE STA. 315+00 SEE THIS SHEET

LEGEND

	WORK ZONE		EXIST. PROPERTY LINE
	TEMPORARY TRAFFIC SIGN		PROP. PROPERTY LINE
	CHANNELIZING DEVICES		PROP. CONSTRUCTION EASEMENT
	GROUP 2: LONGITUDINAL CHANNELIZING DEVICES	PAVEMENT MARKING LEGEND	
	DIRECTION OF TRAFFIC		TYPE B, CLASS 1 WHITE 24" WIDTH
	EXISTING PAVEMENT MARKING		TYPE B, CLASS 1 WHITE 12" WIDTH
	TEMPORARY PAVEMENT MARKING		TYPE B, CLASS 1 DOUBLE YELLOW 4" WIDTH
	TYPE III BARRICADE		TYPE B, CLASS 1 WHITE 4" WIDTH
	DIRECTIONAL ARROW BOARD		TYPE B, CLASS 1 WHITE 8" WIDTH

- NOTES**
- CONTRACTOR TO MAINTAIN LOCAL ACCESS AT ALL TIMES
 - EXISTING PAVEMENT MARKINGS ARE APPROXIMATE AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO IMPLEMENTING ANY TRAFFIC CONTROL MEASURES
 - TEMPORARILY CLOSE BUS STOP. COORDINATE WITH DASH TO REDIRECT RIDERS OF ROUTE 31 TO THE STOP AT BEAUREGARD ST AND BRANCH AVE. COORDINATE WITH WMATA TO REDIRECT RIDERS TO OF ROUTE 7A TO THE STOP AT BEAUREGARD ST AND BRANCH AVE.
 - THE CONTRACTOR MUST KEEP LANE OPEN DURING THE PEAK HOURS.

- PROPOSED IMPROVEMENTS**
- SIDEWALK FROM STA. 317+74.66 TO STA. 319+36.08
 - PLATFORM FROM STA. 317+74.66 TO STA. 319+36.08
 - CURB AND GUTTER FROM STA. 317+74.66 TO STA. 319+36.08
 - CONCRETE BUS PAD FROM STA. 317+74.66 TO STA. 319+36.08
 - MILL & OVERLAY FROM STA. 317+74.66 TO STA. 319+36.08

- SEQUENCE OF CONSTRUCTION**
- PHASE 3A
 - THE CONTRACTOR SHALL SET UP EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
 - INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 35.1, 41.2 AND 60.0.
 - CONSTRUCT THE SIDEWALK, PLATFORM, CURB AND GUTTER, AND CONCRETE BUS PAD FOR THE WESTBOUND BUS STATIONS AND MILL AND OVERLAY OUTSIDE LANE ALONG SANGER AVENUE FROM STA. 317+74.66 TO STA. 319+36.08.



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

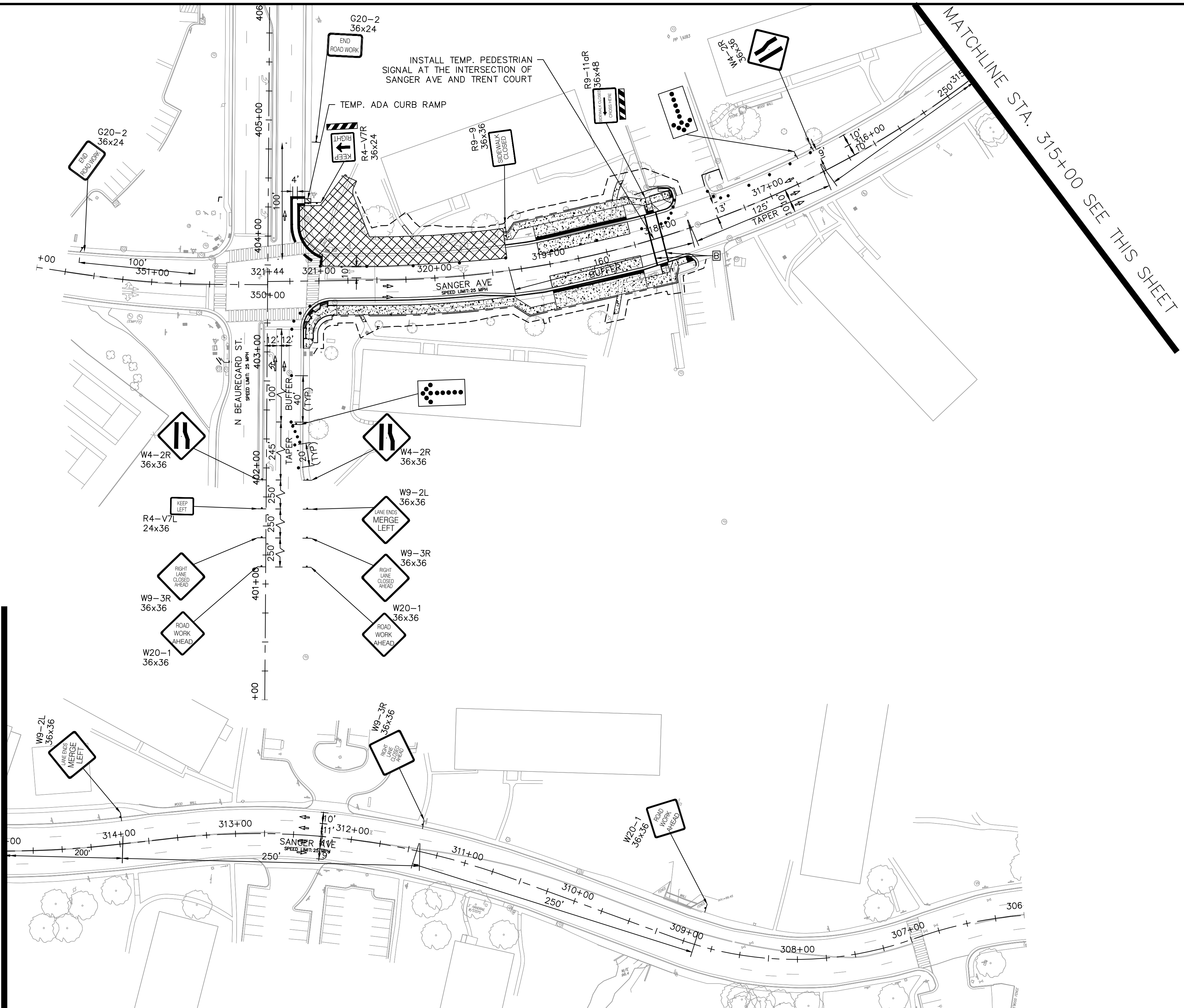
REVISIONS	DATE	DESCRIPTION

ALEXANDRIA PROJECT NO.: 110104122
DATE OF PLAN ISSUANCE: N/A
CONSULTANT PROJECT ID: N/A
DESIGNED BY: EJD DATE: 5/5/23
DRAWN BY: SJC DATE: 5/5/23
CHECKED BY: EJD DATE: 5/5/23
APPROVED BY: DATE: 5/5/23

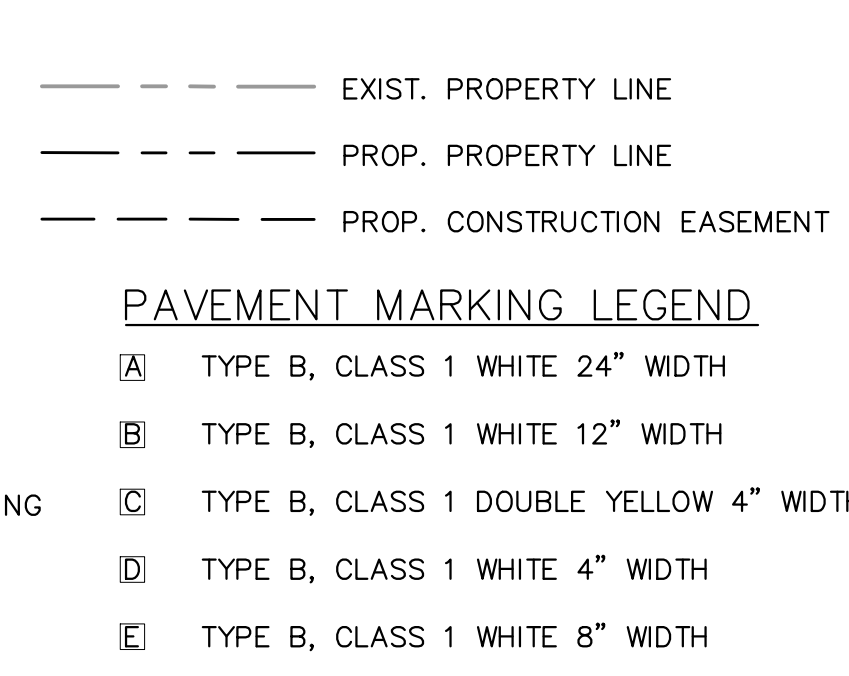
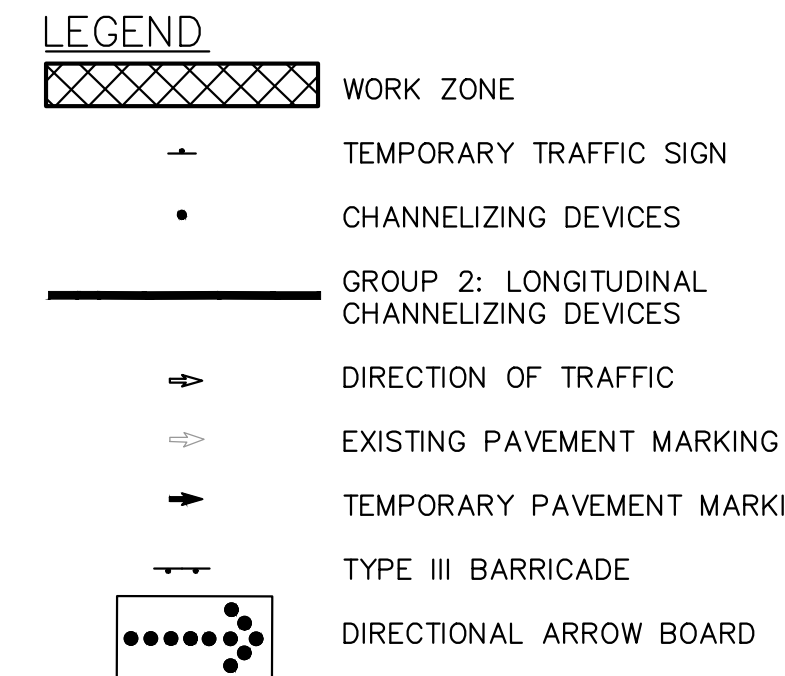
**MAINTENANCE OF TRAFFIC
PHASE 3A - BEAUREGARD ST
AT SANGER AVE**

SHEET
C-1307D
SCALE 1" = 50'

Plotted By: Grovitt, Sydney Sheet Set: West End Transitway - Phase 1 Layout: C-114 ROADWAY PLAN May 05, 2023 03:09:34pm K:\NVA_Transist\110104122_West_End_Transitway_Design\CADD\PlanSheets\ROADWAY PLAN.dwg



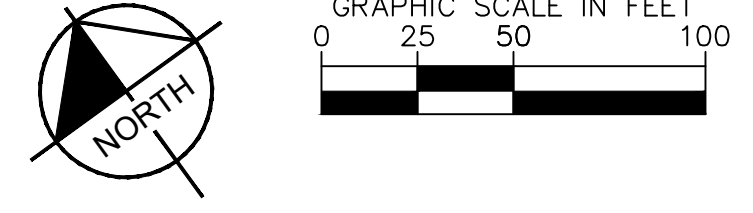
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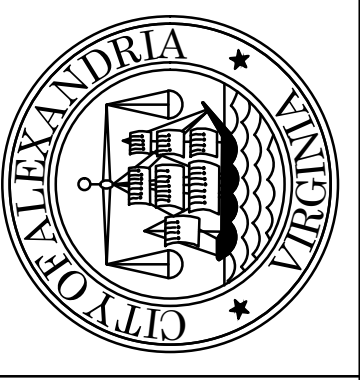
- NOTES**
1. CONTRACTOR TO MAINTAIN LOCAL ACCESS AT ALL TIMES
 2. EXISTING PAVEMENT MARKINGS ARE APPROXIMATE AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO IMPLEMENTING ANY TRAFFIC CONTROL MEASURES
 3. TEMPORARILY CLOSE BUS STOP. COORDINATE WITH DASH TO REDIRECT RIDERS OF ROUTE 31 TO THE STOP AT BEAUREGARD ST AND BRANCH AVE. COORDINATE WITH WMATA TO REDIRECT RIDERS TO OF ROUTE 7A TO THE STOP AT BEAUREGARD ST AND BRANCH AVE.
 4. THE CONTRACTOR MUST KEEP LANE OPEN DURING THE PEAK HOURS.

- PROPOSED IMPROVEMENTS**
1. SIDEWALK FROM STA. 319+36.08 TO STA. 321+15.72
 2. CURB AND GUTTER FROM STA. 319+36.08 TO STA. 321+15.72
 3. MILL & OVERLAY FROM STA. 319+36.08 TO STA. 321+15.72

- SEQUENCE OF CONSTRUCTION**
1. PHASE 3B
 - 1.1. THE CONTRACTOR SHALL SET UP EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
 - 1.2. INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 16.2 AND 35.1.
 - 1.3. CONSTRUCT THE SIDEWALK, CURB AND GUTTER, AND MILL AND OVERLAY OUTSIDE LANE ALONG WESTBOUND SANGER AVENUE FROM STA. 319+36.08 TO STA. 321+15.72.



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS



CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

REVISIONS	DESCRIPTION
DATE	BY

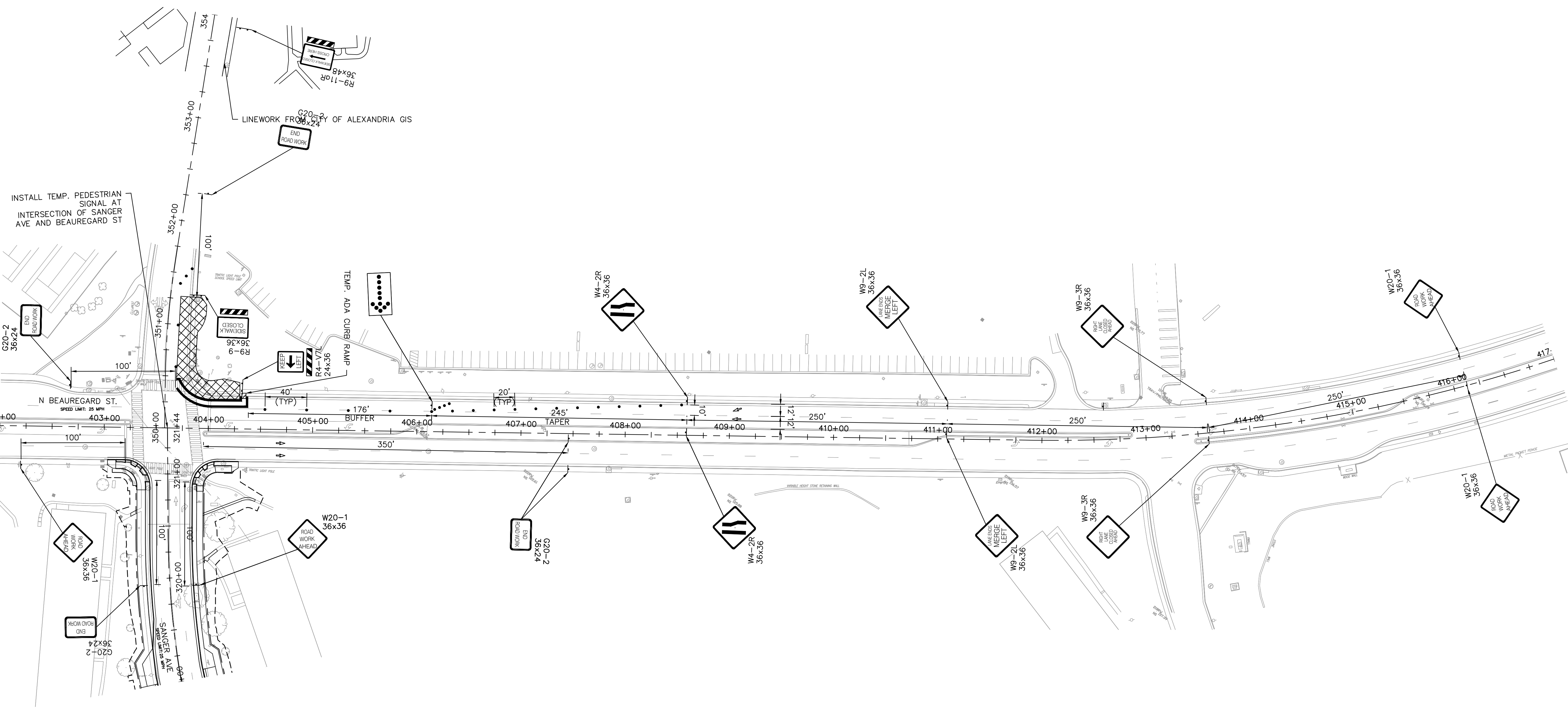
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 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID.: N/A
 DESIGNED BY: J.M.T. DATE: 5/5/23
 DRAWN BY: A.B. DATE: 5/5/23
 CHECKED BY: E.J. DATE: 5/5/23
 APPROVED BY: DATE: 5/5/23

MAINTENANCE OF TRAFFIC
PHASE 3B - BEAUREGARD ST
AT SANGER AVE

SHEET
 C-1307E
 SCALE 1" = 50'

90% DESIGN PHASE

Plotted By: Grovitt, Sydney Sheet Set: West End Transitway - Phase 1 Layout: C-114 ROADWAY PLAN May 05, 2023 03:09:34pm K:\NVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\ROADWAY PLAN.dwg



LEGEND

	WORK ZONE		EXIST. PROPERTY LINE
	TEMPORARY TRAFFIC SIGN		PROP. PROPERTY LINE
	CHANNELIZING DEVICES		PROP. CONSTRUCTION EASEMENT
	GROUP 2: LONGITUDINAL CHANNELIZING DEVICES	PAVEMENT MARKING LEGEND	
	DIRECTION OF TRAFFIC		TYPE B, CLASS 1 WHITE 24" WIDTH
	EXISTING PAVEMENT MARKING		TYPE B, CLASS 1 WHITE 12" WIDTH
	TEMPORARY PAVEMENT MARKING		TYPE B, CLASS 1 DOUBLE YELLOW 4" WIDTH
	TYPE III BARRICADE		TYPE B, CLASS 1 WHITE 4" WIDTH
	DIRECTIONAL ARROW BOARD		TYPE B, CLASS 1 WHITE 8" WIDTH

- NOTES**
- CONTRACTOR TO MAINTAIN LOCAL ACCESS AT ALL TIMES
 - EXISTING PAVEMENT MARKINGS ARE APPROXIMATE AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO IMPLEMENTING ANY TRAFFIC CONTROL MEASURES
 - TEMPORARILY CLOSE BUS STOP. COORDINATE WITH DASH TO REDIRECT RIDERS OF ROUTE 31 TO THE STOP AT BEAUREGARD ST AND BRANCH AVE. COORDINATE WITH WMATA TO REDIRECT RIDERS TO OF ROUTE 7A TO THE STOP AT BEAUREGARD ST AND BRANCH AVE.
 - THE CONTRACTOR MUST KEEP LANE OPEN DURING THE PEAK HOURS.

- PROPOSED IMPROVEMENTS**
- SIDEWALK FROM STA. 350+28.32 TO STA. 351+28.71
 - CURB RAMP FROM STA. 350+28.32 TO STA. 351+28.71
 - TRAFFIC SIGNAL FROM STA. 350+28.32 TO STA. 351+28.71

- SEQUENCE OF CONSTRUCTION**
- PHASE 4A
 - THE CONTRACTOR SHALL SET UP PHASE 1 EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
 - INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 16.2 AND 35.1.
 - CONSTRUCT THE SIDEWALK, CURB RAMPS, AND THE PEDESTRIAN AND TRAFFIC SIGNAL ON SOUTHBOUND BEAUREGARD STREET FROM STA. 350.28.32 TO STA. 351+28.71.



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

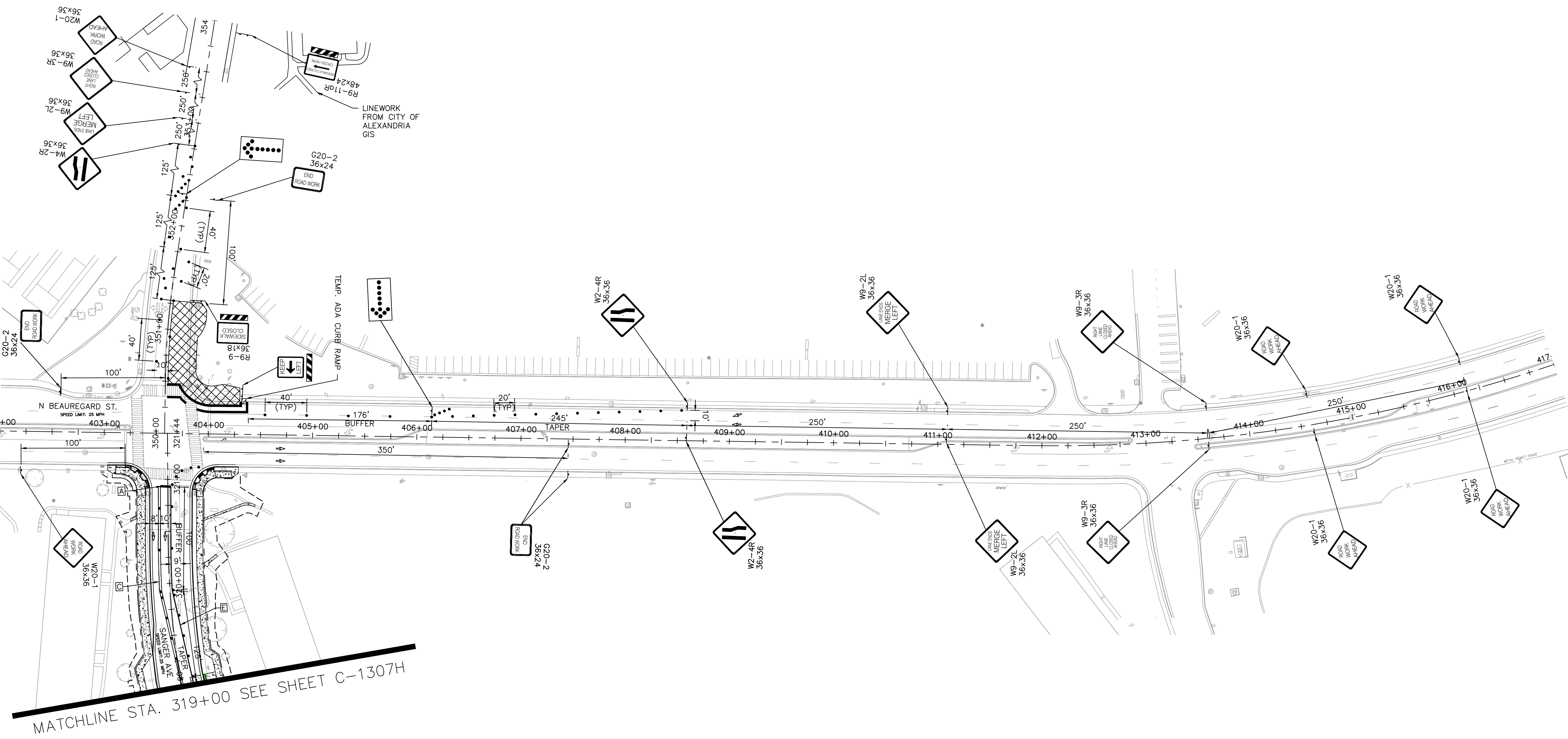
REVISIONS	DATE	DESCRIPTION

ALEXANDRIA PROJECT NO.: 110104122
 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: EJD DATE: 5/5/23
 DRAWN BY: SUG DATE: 5/5/23
 CHECKED BY: EJD DATE: 5/5/23
 APPROVED BY: DATE: 5/5/23

MAINTENANCE OF TRAFFIC
PHASE 4A - BEAUREGARD ST
AT SANGER AVE

SHEET
 C-1307F
 SCALE 1" = 50'

Plotted By: Grovitt, Sydney Sheet Set: West End Transitway - Phase 1 Layout: C-114 ROADWAY PLAN May 05, 2023 03:09:34pm K:\NVA_Transit\10104122_West End Transitway Design\CADD\PlanSheets\ROADWAY PLAN.dwg



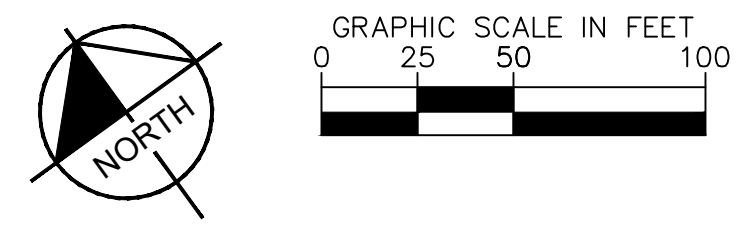
MATCHLINE STA. 319+00 SEE SHEET C-1307H

LEGEND		PAVEMENT MARKING LEGEND	
	WORK ZONE		TYPE B, CLASS 1 WHITE 24" WIDTH
	TEMPORARY TRAFFIC SIGN		TYPE B, CLASS 1 WHITE 12" WIDTH
	CHANNELIZING DEVICES		TYPE B, CLASS 1 DOUBLE YELLOW 4" WIDTH
	GROUP 2: LONGITUDINAL CHANNELIZING DEVICES		TYPE B, CLASS 1 WHITE 4" WIDTH
	DIRECTION OF TRAFFIC		TYPE B, CLASS 1 WHITE 8" WIDTH
	EXISTING PAVEMENT MARKING		
	TEMPORARY PAVEMENT MARKING		
	TYPE III BARRICADE		
	DIRECTIONAL ARROW BOARD		
	EXIST. PROPERTY LINE		
	PROP. PROPERTY LINE		
	PROP. CONSTRUCTION EASEMENT		

- NOTES**
- CONTRACTOR TO MAINTAIN LOCAL ACCESS AT ALL TIMES
 - EXISTING PAVEMENT MARKINGS ARE APPROXIMATE AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO IMPLEMENTING ANY TRAFFIC CONTROL MEASURES
 - TEMPORARILY CLOSE BUS STOP. COORDINATE WITH DASH TO REDIRECT RIDERS OF ROUTE 31 TO THE STOP AT BEAUREGARD ST AND BRANCH AVE. COORDINATE WITH WMATA TO REDIRECT RIDERS TO OF ROUTE 7A TO THE STOP AT BEAUREGARD ST AND BRANCH AVE.
 - THE CONTRACTOR MUST KEEP LANE OPEN DURING THE PEAK HOURS.

- PROPOSED IMPROVEMENTS**
- CURB AND GUTTER FROM STA. 350+28.32 TO STA. 351+28.71
 - MILL & OVERLAY FROM STA. 350+28.32 TO STA. 351+28.71

- SEQUENCE OF CONSTRUCTION**
- PHASE 4B
 - THE CONTRACTOR SHALL SET UP PHASE 1 EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
 - INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 16.2, 35.1, 41.2, 60.0.
 - CONSTRUCT THE CURB AND GUTTER AND MILL AND OVERLAY WESTBOUND SANGER AVENUE FROM STA. 350+28.32 TO STA. 351+28.71



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

REVISIONS	DATE	DESCRIPTION

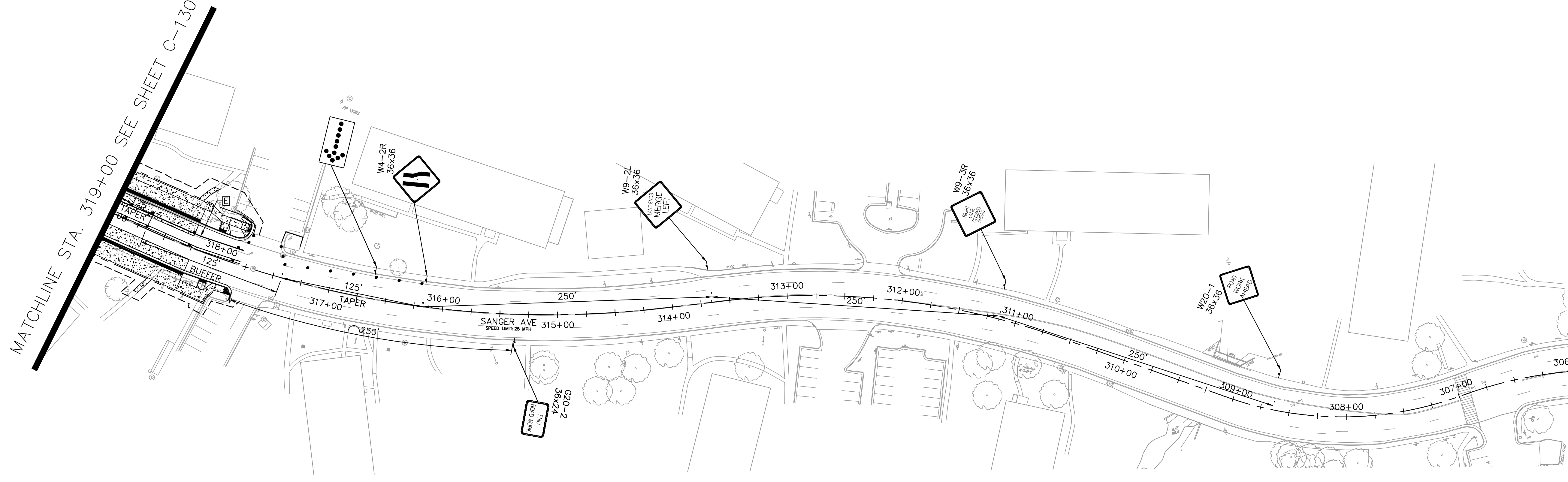
ALEXANDRIA PROJECT NO.:	110104122
DATE OF PLAN ISSUANCE:	N/A
CONSULTANT PROJECT ID.:	N/A
DESIGNED BY:	MMT DATE: 5/5/23
DRAWN BY:	AJB DATE: 5/5/23
CHECKED BY:	EJD DATE: 5/5/23
APPROVED BY:	DATE: 5/5/23

MAINTENANCE OF TRAFFIC
PHASE 4B - BEAUREGARD ST
AT SANGER AVE

SHEET
 C-1307G
 SCALE 1" = 50'

Plotted By: Grovitt, Sydney Sheet Set: West End Transitway - Phase 1 Layout: C-114 ROADWAY PLAN May 05, 2023 03:09:34pm K:\NVA_Transit\10104122_West End Transitway Design\CADD\PlanSheets\ROADWAY PLAN.dwg

MATCHLINE STA. 319+00 SEE SHEET C-1307G



LEGEND

	WORK ZONE		EXIST. PROPERTY LINE
	TEMPORARY TRAFFIC SIGN		PROP. PROPERTY LINE
	CHANNELIZING DEVICES		PROP. CONSTRUCTION EASEMENT
	GROUP 2: LONGITUDINAL CHANNELIZING DEVICES	PAVEMENT MARKING LEGEND	
	DIRECTION OF TRAFFIC		TYPE B, CLASS 1 WHITE 24" WIDTH
	EXISTING PAVEMENT MARKING		TYPE B, CLASS 1 WHITE 12" WIDTH
	TEMPORARY PAVEMENT MARKING		TYPE B, CLASS 1 DOUBLE YELLOW 4" WIDTH
	TYPE III BARRICADE		TYPE B, CLASS 1 WHITE 4" WIDTH
	DIRECTIONAL ARROW BOARD		TYPE B, CLASS 1 WHITE 8" WIDTH

- NOTES**
- CONTRACTOR TO MAINTAIN LOCAL ACCESS AT ALL TIMES
 - EXISTING PAVEMENT MARKINGS ARE APPROXIMATE AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO IMPLEMENTING ANY TRAFFIC CONTROL MEASURES
 - TEMPORARILY CLOSE BUS STOP. COORDINATE WITH DASH TO REDIRECT RIDERS OF ROUTE 31 TO THE STOP AT BEAUREGARD ST AND BRANCH AVE. COORDINATE WITH WMATA TO REDIRECT RIDERS TO OF ROUTE 7A TO THE STOP AT BEAUREGARD ST AND BRANCH AVE.
 - THE CONTRACTOR MUST KEEP LANE OPEN DURING THE PEAK HOURS.

- PROPOSED IMPROVEMENTS**
- CURB AND GUTTER FROM STA. 350+28.32 TO STA. 351+28.71
 - MILL & OVERLAY FROM STA. 350+28.32 TO STA. 351+28.71

- SEQUENCE OF CONSTRUCTION**
- PHASE 4B
 - THE CONTRACTOR SHALL SET UP PHASE 1 EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
 - INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 16.2, 35.1, 41.2, 60.0.
 - CONSTRUCT THE CURB AND GUTTER AND MILL AND OVERLAY WESTBOUND SANGER AVENUE FROM STA. 350+28.32 TO STA. 351+28.71



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

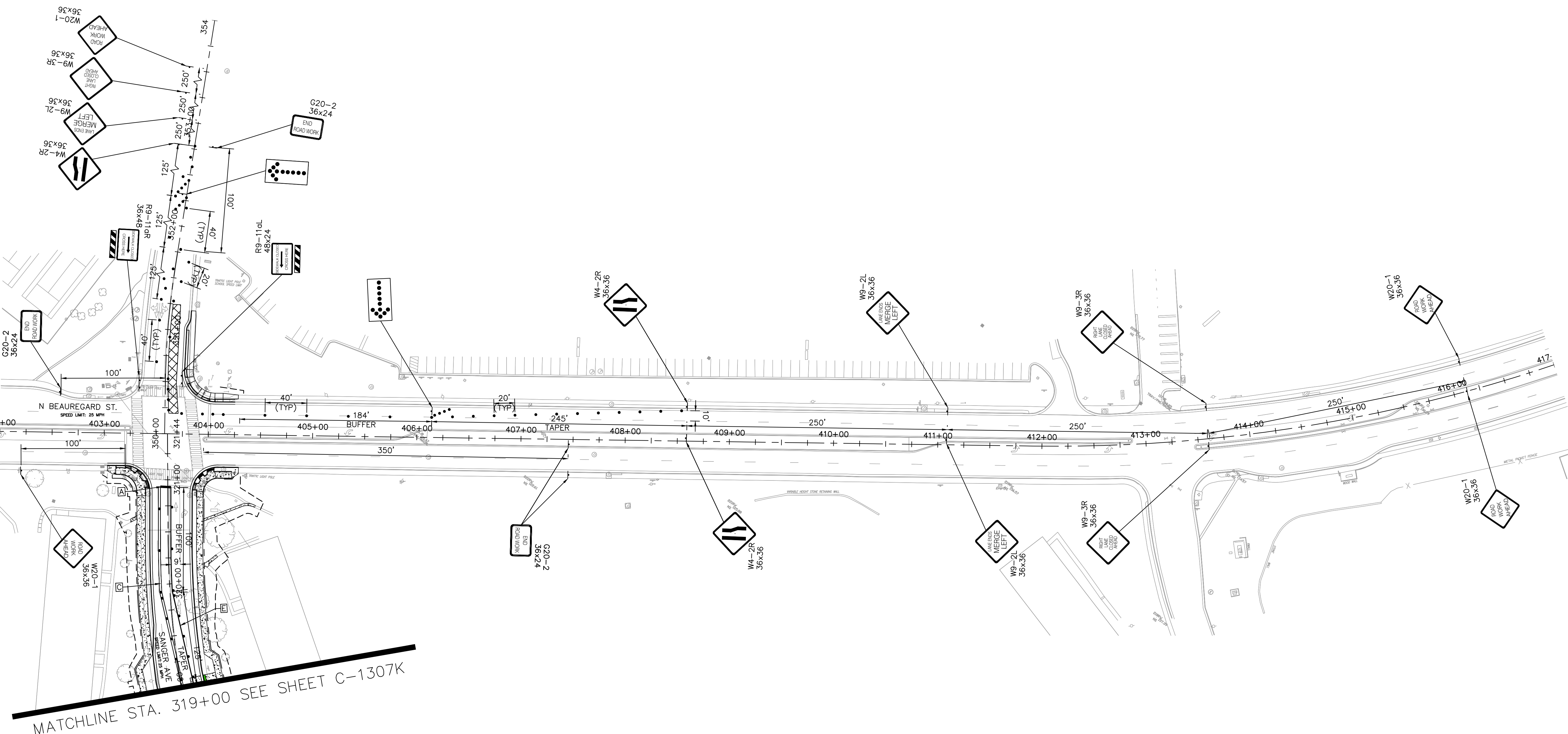
REVISIONS	DATE	DESCRIPTION

ALEXANDRIA PROJECT NO.:	110104122
DATE OF PLAN ISSUANCE:	N/A
CONSULTANT PROJECT ID.:	N/A
DESIGNED BY:	MAT. DATE: 5/5/23
DRAWN BY:	AJB. DATE: 5/5/23
CHECKED BY:	EJD. DATE: 5/5/23
APPROVED BY:	DATE: 5/5/23

MAINTENANCE OF TRAFFIC
PHASE 4B - BEAUREGARD ST
AT SANGER AVE

SHEET
 C-1307H
 SCALE 1" = 50'

Plotted By: Grovitt, Sydney Sheet Set: West End Transitway - Phase 1 Layout: C-114 ROADWAY PLAN May 05, 2023 03:09:34pm K:\NVA_Transist\10104122_West End Transitway Design\CADD\PlanSheets\ROADWAY PLAN.dwg



MATCHLINE STA. 319+00 SEE SHEET C-1307K

LEGEND

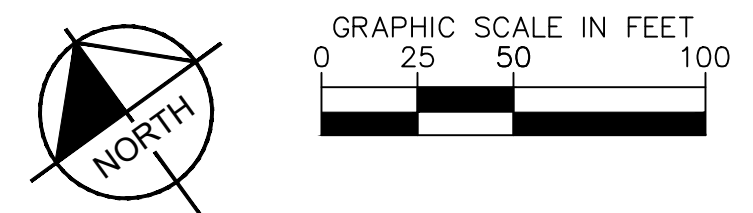
	WORK ZONE		EXIST. PROPERTY LINE
	TEMPORARY TRAFFIC SIGN		PROP. PROPERTY LINE
	CHANNELIZING DEVICES		PROP. CONSTRUCTION EASEMENT
	GROUP 2: LONGITUDINAL CHANNELIZING DEVICES	PAVEMENT MARKING LEGEND	
	DIRECTION OF TRAFFIC		TYPE B, CLASS 1 WHITE 24" WIDTH
	EXISTING PAVEMENT MARKING		TYPE B, CLASS 1 WHITE 12" WIDTH
	TEMPORARY PAVEMENT MARKING		TYPE B, CLASS 1 DOUBLE YELLOW 4" WIDTH
	TYPE III BARRICADE		TYPE B, CLASS 1 WHITE 4" WIDTH
	DIRECTIONAL ARROW BOARD		TYPE B, CLASS 1 WHITE 8" WIDTH

- NOTES**
- CONTRACTOR TO MAINTAIN LOCAL ACCESS AT ALL TIMES
 - EXISTING PAVEMENT MARKINGS ARE APPROXIMATE AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO IMPLEMENTING ANY TRAFFIC CONTROL MEASURES
 - TEMPORARILY CLOSE BUS STOP. COORDINATE WITH DASH TO REDIRECT RIDERS OF ROUTE 31 TO THE STOP AT BEAUREGARD ST AND BRANCH AVE. COORDINATE WITH WMATA TO REDIRECT RIDERS TO OF ROUTE 7A TO THE STOP AT BEAUREGARD ST AND BRANCH AVE.
 - THE CONTRACTOR MUST KEEP LANE OPEN DURING THE PEAK HOURS.

PROPOSED IMPROVEMENTS

- MILL & OVERLAY FROM STA. 350+19.74 TO STA. 351+24.72

- SEQUENCE OF CONSTRUCTION**
- PHASE 4C
 - THE CONTRACTOR SHALL SET UP PHASE 1 EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
 - INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 16.2, 41.2, 60.0.
 - MILL AND OVERLAY THE INSIDE WESTBOUND LANE SANGER AVENUE FROM STA. 350+19.74 TO STA. 351+24.72.



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

REVISIONS	DATE	DESCRIPTION

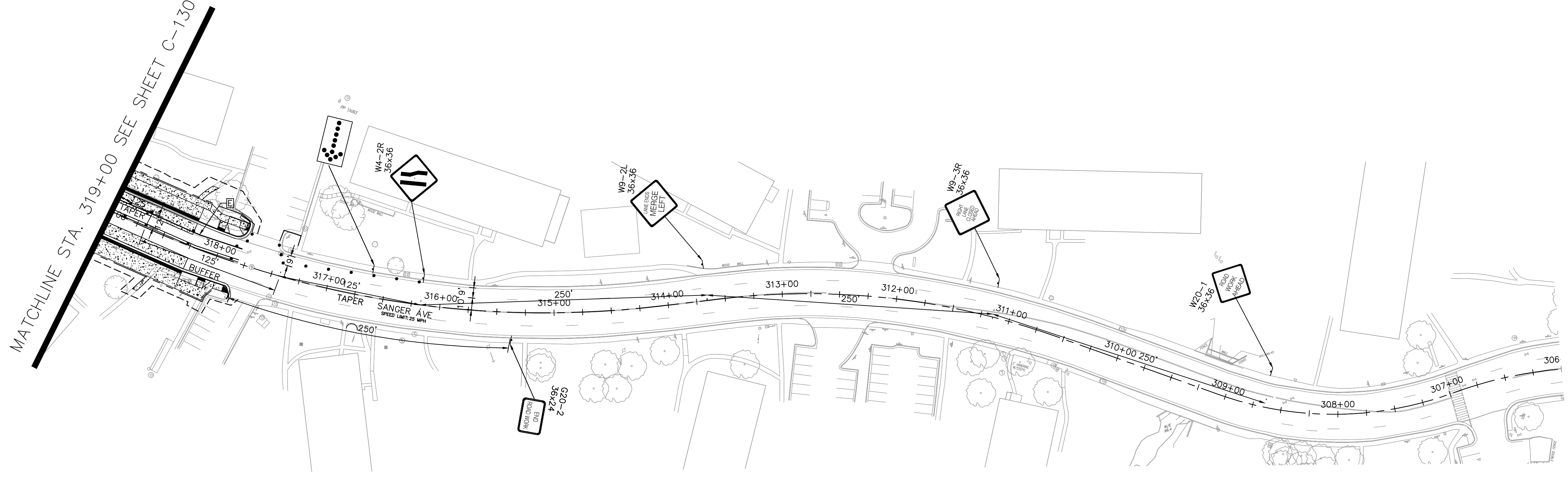
ALEXANDRIA PROJECT NO.: 110104122
 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: EJD DATE: 5/5/23
 DRAWN BY: SUG DATE: 5/5/23
 CHECKED BY: EJD DATE: 5/5/23
 APPROVED BY: DATE: 5/5/23

MAINTENANCE OF TRAFFIC
PHASE 4C - BEAUREGARD ST
AT SANGER AVE

SHEET
 C-1307J
 SCALE 1" = 50'

Plotted By: Grovitt, Sydney Sheet Set: West End Transitway - Phase 1 Layout: C-114 ROADWAY PLAN May 05, 2023 03:09:34pm K:\NVA_Transit\10104122_West End Transitway Design\CADD\PlanSheets\ROADWAY PLAN.dwg

MATCHLINE STA. 319+00 SEE SHEET C-1307L



LEGEND

	WORK ZONE
	TEMPORARY TRAFFIC SIGN
	CHANNELIZING DEVICES
	GROUP 2: LONGITUDINAL CHANNELIZING DEVICES
	DIRECTION OF TRAFFIC
	EXISTING PAVEMENT MARKING
	TEMPORARY PAVEMENT MARKING
	TYPE III BARRICADE
	DIRECTIONAL ARROW BOARD

	EXIST. PROPERTY LINE
	PROP. PROPERTY LINE
	PROP. CONSTRUCTION EASEMENT

PAVEMENT MARKING LEGEND

	TYPE B, CLASS 1 WHITE 24" WIDTH
	TYPE B, CLASS 1 WHITE 12" WIDTH
	TYPE B, CLASS 1 DOUBLE YELLOW 4" WIDTH
	TYPE B, CLASS 1 WHITE 4" WIDTH
	TYPE B, CLASS 1 WHITE 8" WIDTH

NOTES

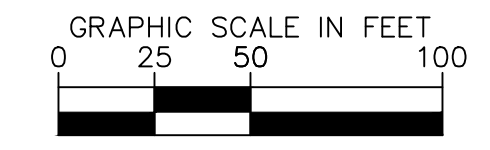
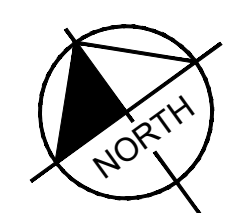
- CONTRACTOR TO MAINTAIN LOCAL ACCESS AT ALL TIMES
- EXISTING PAVEMENT MARKINGS ARE APPROXIMATE AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO IMPLEMENTING ANY TRAFFIC CONTROL MEASURES
- TEMPORARILY CLOSE BUS STOP. COORDINATE WITH DASH TO REDIRECT RIDERS OF ROUTE 31 TO THE STOP AT BEAUREGARD ST AND BRANCH AVE. COORDINATE WITH WMATA TO REDIRECT RIDERS TO OF ROUTE 7A TO THE STOP AT BEAUREGARD ST AND BRANCH AVE.
- THE CONTRACTOR MUST KEEP LANE OPEN DURING THE PEAK HOURS.

PROPOSED IMPROVEMENTS

- MILL & OVERLAY FROM STA. 403+57.70 TO STA. 403+71.32

SEQUENCE OF CONSTRUCTION

- PHASE 4D
 - THE CONTRACTOR SHALL SET UP PHASE 1 EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
 - INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 17.2, 41.2, 60.0.
 - MILL AND OVERLAY THE INSIDE WESTBOUND LANE SANGER AVENUE THROUGH THE INTERSECTION WITH BEAUREGARD STREET FROM STA. 403+57.70 TO STA. 403+71.32.



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

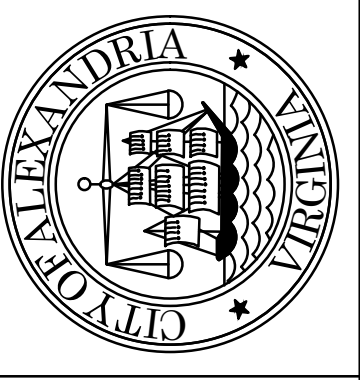
**MAINTENANCE OF TRAFFIC
PHASE 4D - BEAUREGARD ST
AT SANGER AVE**

SHEET
C-1307M
SCALE 1" = 50'

ALEXANDRIA PROJECT NO.:	110104122
DATE OF PLAN ISSUANCE:	N/A
CONSULTANT PROJECT ID.:	N/A
DESIGNED BY:	MAT. DATE: 5/5/23
DRAWN BY:	AJB. DATE: 5/5/23
CHECKED BY:	EJD. DATE: 5/5/23
APPROVED BY:	DATE: 5/5/23

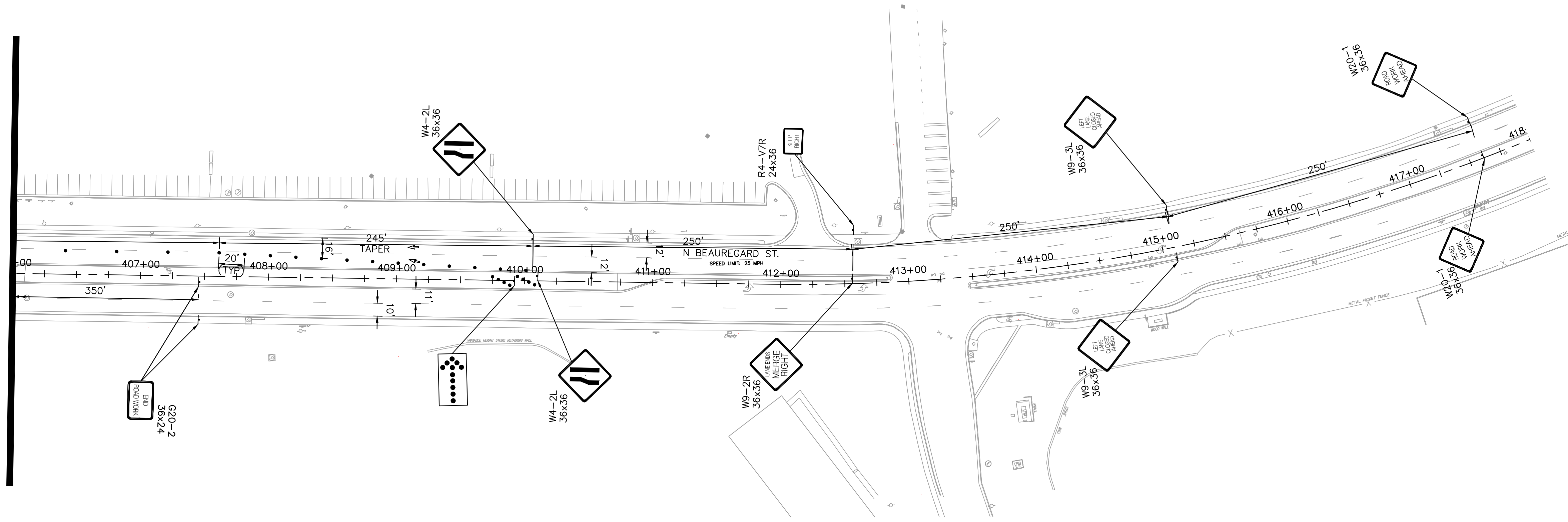
REVISIONS	DATE	DESCRIPTION

CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313



Plotted By: Grovitt, Sydney Sheet Set: West End Transitway - Phase 1 Layout: C-114 ROADWAY PLAN May 05, 2023 03:09:34pm K:\NVA_Transit\10104122_West_End_Transitway_Design\CADD\PlanSheets\ROADWAY_PLAN.dwg

MATCHLINE STA. 406+00 SEE SHEET C-1307L



LEGEND

- | | | | |
|--|--|--------------------------------|--|
| | WORK ZONE | | EXIST. PROPERTY LINE |
| | TEMPORARY TRAFFIC SIGN | | PROP. PROPERTY LINE |
| | CHANNELIZING DEVICES | | PROP. CONSTRUCTION EASEMENT |
| | GROUP 2: LONGITUDINAL CHANNELIZING DEVICES | PAVEMENT MARKING LEGEND | |
| | DIRECTION OF TRAFFIC | | TYPE B, CLASS 1 WHITE 24" WIDTH |
| | EXISTING PAVEMENT MARKING | | TYPE B, CLASS 1 WHITE 12" WIDTH |
| | TEMPORARY PAVEMENT MARKING | | TYPE B, CLASS 1 DOUBLE YELLOW 4" WIDTH |
| | TYPE III BARRICADE | | TYPE B, CLASS 1 WHITE 4" WIDTH |
| | DIRECTIONAL ARROW BOARD | | TYPE B, CLASS 1 WHITE 8" WIDTH |

NOTES

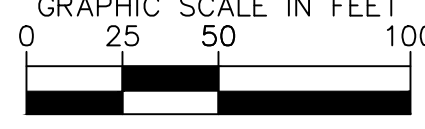
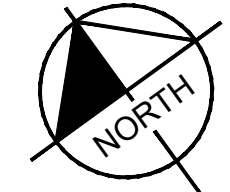
- CONTRACTOR TO MAINTAIN LOCAL ACCESS AT ALL TIMES
- EXISTING PAVEMENT MARKINGS ARE APPROXIMATE AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO IMPLEMENTING ANY TRAFFIC CONTROL MEASURES
- TEMPORARILY CLOSE BUS STOP. COORDINATE WITH DASH TO REDIRECT RIDERS OF ROUTE 31 TO THE STOP AT BEAUREGARD ST AND BRANCH AVE. COORDINATE WITH WMATA TO REDIRECT RIDERS TO OF ROUTE 7A TO THE STOP AT BEAUREGARD ST AND BRANCH AVE.
- THE CONTRACTOR MUST KEEP LANE OPEN DURING THE PEAK HOURS.

PROPOSED IMPROVEMENTS

- MILL & OVERLAY FROM STA. 403+57.70 TO STA. 403+71.32

SEQUENCE OF CONSTRUCTION

- PHASE 4D
 - THE CONTRACTOR SHALL SET UP PHASE 1 EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
 - INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 17.2, 41.2, 60.0.
 - MILL AND OVERLAY THE INSIDE WESTBOUND LANE SANGER AVENUE THROUGH THE INTERSECTION WITH BEAUREGARD STREET FROM STA. 403+57.70 TO STA. 403+71.32.



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

Maintenance of Traffic
Phase 4D - Beaugard St
at Sanger Ave

SHEET
C-1307N
SCALE 1" = 50'

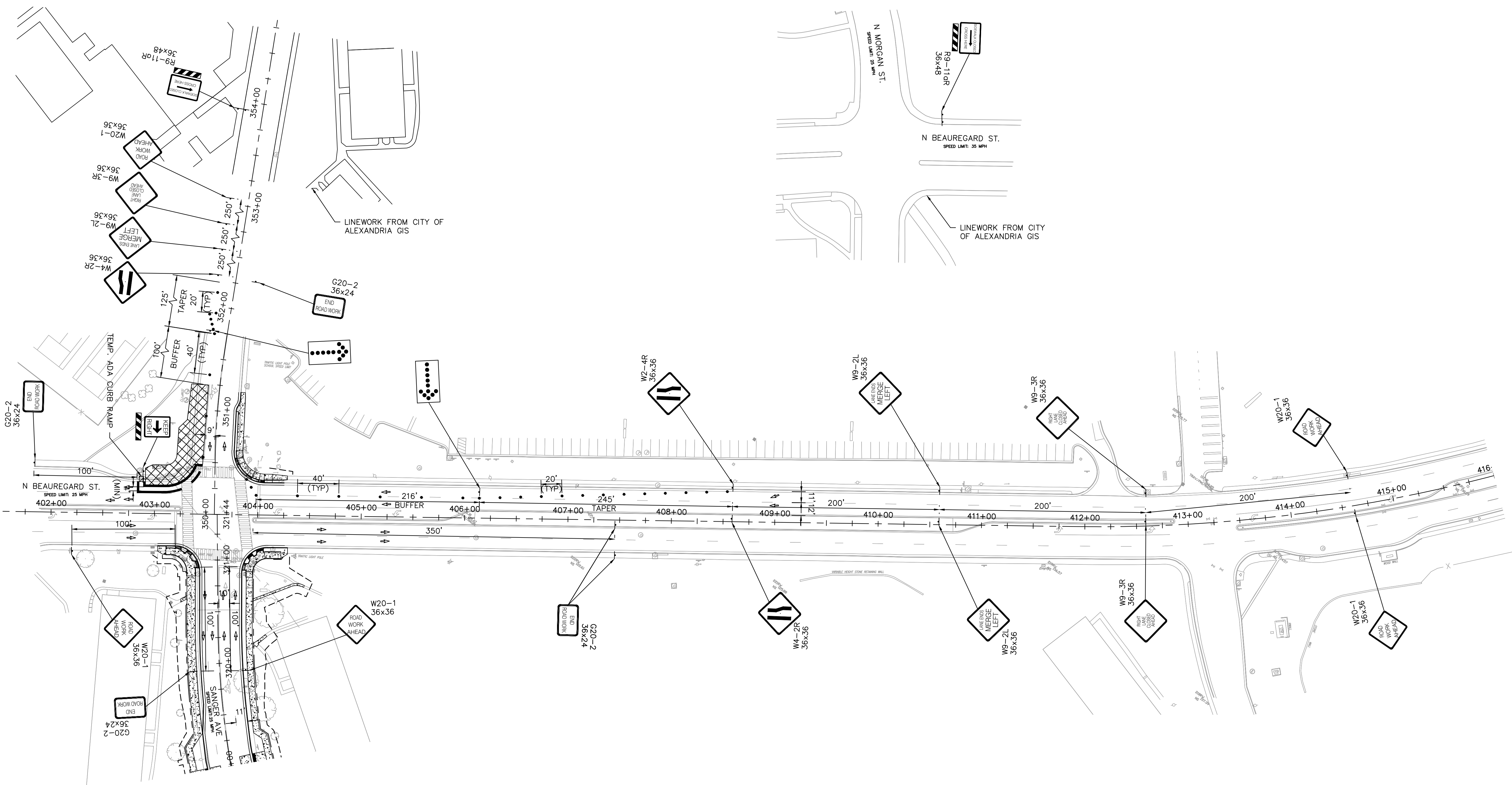
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DATE OF PLAN ISSUANCE:	N/A
CONSULTANT PROJECT ID.:	N/A
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DRAWN BY:	AUB. DATE: 5/5/23
CHECKED BY:	EJD. DATE: 5/5/23
APPROVED BY:	DATE: 5/5/23

REVISIONS	DATE	DESCRIPTION

CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313



Plotted By: Grovitt, Sydney Sheet Set: West End Transitway - Phase 1 Layout: C-114 ROADWAY PLAN May 05, 2023 03:09:34pm K:\NVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\ROADWAY PLAN.dwg



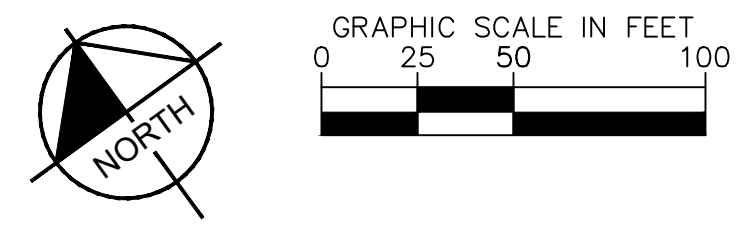
LEGEND

	WORK ZONE		EXIST. PROPERTY LINE
	TEMPORARY TRAFFIC SIGN		PROP. PROPERTY LINE
	CHANNELIZING DEVICES		PROP. CONSTRUCTION EASEMENT
	GROUP 2: LONGITUDINAL CHANNELIZING DEVICES	PAVEMENT MARKING LEGEND	
	DIRECTION OF TRAFFIC		TYPE B, CLASS 1 WHITE 24" WIDTH
	EXISTING PAVEMENT MARKING		TYPE B, CLASS 1 WHITE 12" WIDTH
	TEMPORARY PAVEMENT MARKING		TYPE B, CLASS 1 DOUBLE YELLOW 4" WIDTH
	TYPE III BARRICADE		TYPE B, CLASS 1 WHITE 4" WIDTH
	DIRECTIONAL ARROW BOARD		TYPE B, CLASS 1 WHITE 8" WIDTH

- NOTES**
- CONTRACTOR TO MAINTAIN LOCAL ACCESS AT ALL TIMES
 - EXISTING PAVEMENT MARKINGS ARE APPROXIMATE AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO IMPLEMENTING ANY TRAFFIC CONTROL MEASURES
 - TEMPORARILY CLOSE BUS STOP. COORDINATE WITH DASH TO REDIRECT RIDERS OF ROUTE 31 TO THE STOP AT BEAUREGARD ST AND BRANCH AVE. COORDINATE WITH WMATA TO REDIRECT RIDERS TO OF ROUTE 7A TO THE STOP AT BEAUREGARD ST AND BRANCH AVE.
 - THE CONTRACTOR MUST KEEP LANE OPEN DURING THE PEAK HOURS.

- PROPOSED IMPROVEMENTS**
- SIDEWALK FROM STA. 350+27.65 TO STA. 351+23.61
 - CURB AND GUTTER FROM STA. 350+27.65 TO STA. 351+23.61
 - CURB RAMP FROM STA. 350+27.65 TO STA. 351+23.61
 - MILL & OVERLAY FROM STA. 350+27.65 TO STA. 351+23.61

- SEQUENCE OF CONSTRUCTION**
- PHASE 5
 - THE CONTRACTOR SHALL SET UP PHASE 1 EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
 - INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 16.2 AND 35.1.
 - CONSTRUCT THE SIDEWALK, CURB AND GUTTER, CURB RAMPS, AND OUTSIDE LANE. MILL AND OVERLAY ALONG EASTBOUND SANGER AVENUE FROM STA. 350+27.65 TO STA. 351+23.61.



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

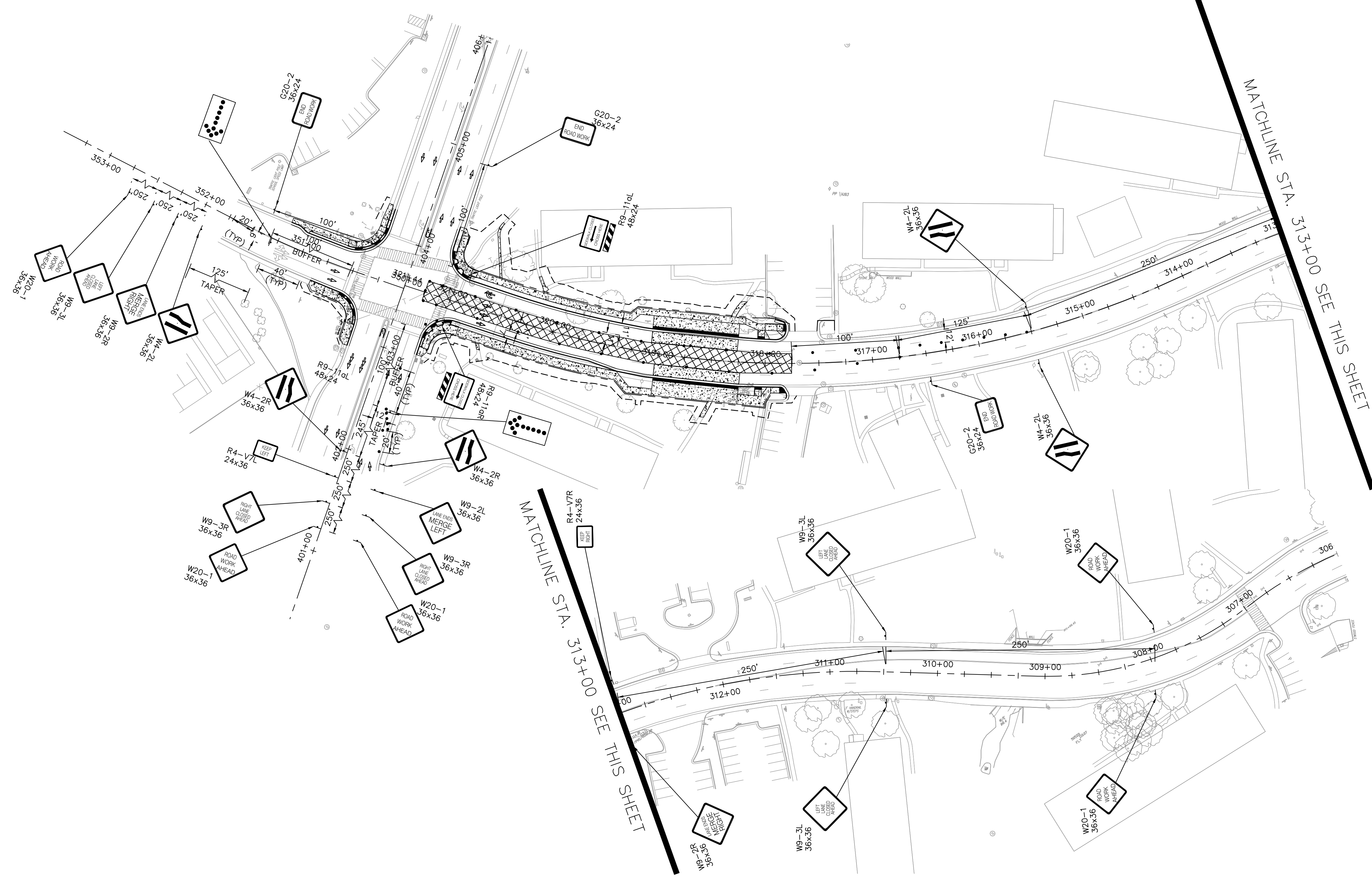
REVISIONS	DATE	DESCRIPTION

ALEXANDRIA PROJECT NO.: 110104122
 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: MAT DATE: 5/5/23
 DRAWN BY: AUB DATE: 5/5/23
 CHECKED BY: EJD DATE: 5/5/23
 APPROVED BY: DATE: 5/5/23

MAINTENANCE OF TRAFFIC
PHASE 5 - BEAUREGARD ST
AT SANGER AVE

SHEET
 C-1307P
 SCALE 1" = 50'

Plotted By: Grovitt, Sydney Sheet Set: West End Transitway - Phase 1 Layout: C-114 ROADWAY PLAN May 05, 2023 03:09:34pm K:\NVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\ROADWAY PLAN.dwg



LEGEND

	WORK ZONE		EXIST. PROPERTY LINE
	TEMPORARY TRAFFIC SIGN		PROP. PROPERTY LINE
	CHANNELIZING DEVICES		PROP. CONSTRUCTION EASEMENT
	GROUP 2: LONGITUDINAL CHANNELIZING DEVICES	PAVEMENT MARKING LEGEND	
	DIRECTION OF TRAFFIC		TYPE B, CLASS 1 WHITE 24" WIDTH
	EXISTING PAVEMENT MARKING		TYPE B, CLASS 1 WHITE 12" WIDTH
	TEMPORARY PAVEMENT MARKING		TYPE B, CLASS 1 DOUBLE YELLOW 4" WIDTH
	TYPE III BARRICADE		TYPE B, CLASS 1 WHITE 4" WIDTH
	DIRECTIONAL ARROW BOARD		TYPE B, CLASS 1 WHITE 8" WIDTH

NOTES

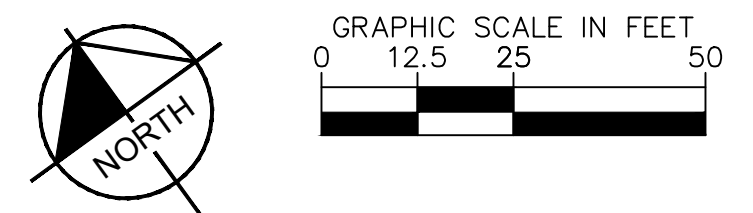
- CONTRACTOR TO MAINTAIN LOCAL ACCESS AT ALL TIMES
- EXISTING PAVEMENT MARKINGS ARE APPROXIMATE AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO IMPLEMENTING ANY TRAFFIC CONTROL MEASURES
- TEMPORARILY CLOSE BUS STOP. COORDINATE WITH DASH TO REDIRECT RIDERS OF ROUTE 31 TO THE STOP AT BEAUREGARD ST AND BRANCH AVE. COORDINATE WITH WMATA TO REDIRECT RIDERS TO OF ROUTE 7A TO THE STOP AT BEAUREGARD ST AND BRANCH AVE.
- THE CONTRACTOR MUST KEEP LANE OPEN DURING THE PEAK HOURS.

PROPOSED IMPROVEMENTS

- MILL & OVERLAY FROM STA. 317+75.39 TO STA. 321+24.47

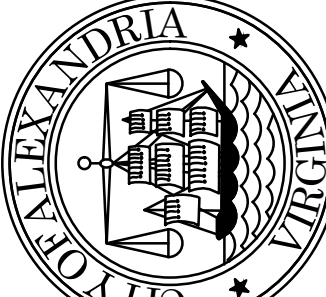
SEQUENCE OF CONSTRUCTION

- PHASE 7A
 - THE CONTRACTOR SHALL SET UP PHASE 1 EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
 - INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 16.2 AND 42.2.
 - MILL AND OVERLAY THE INSIDE EASTBOUND AND WESTBOUND LANES OF SANGER AVENUE FROM STA. 317+75.39 TO STA. 321+24.47.



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE



CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

REVISIONS	DESCRIPTION
DATE	BY

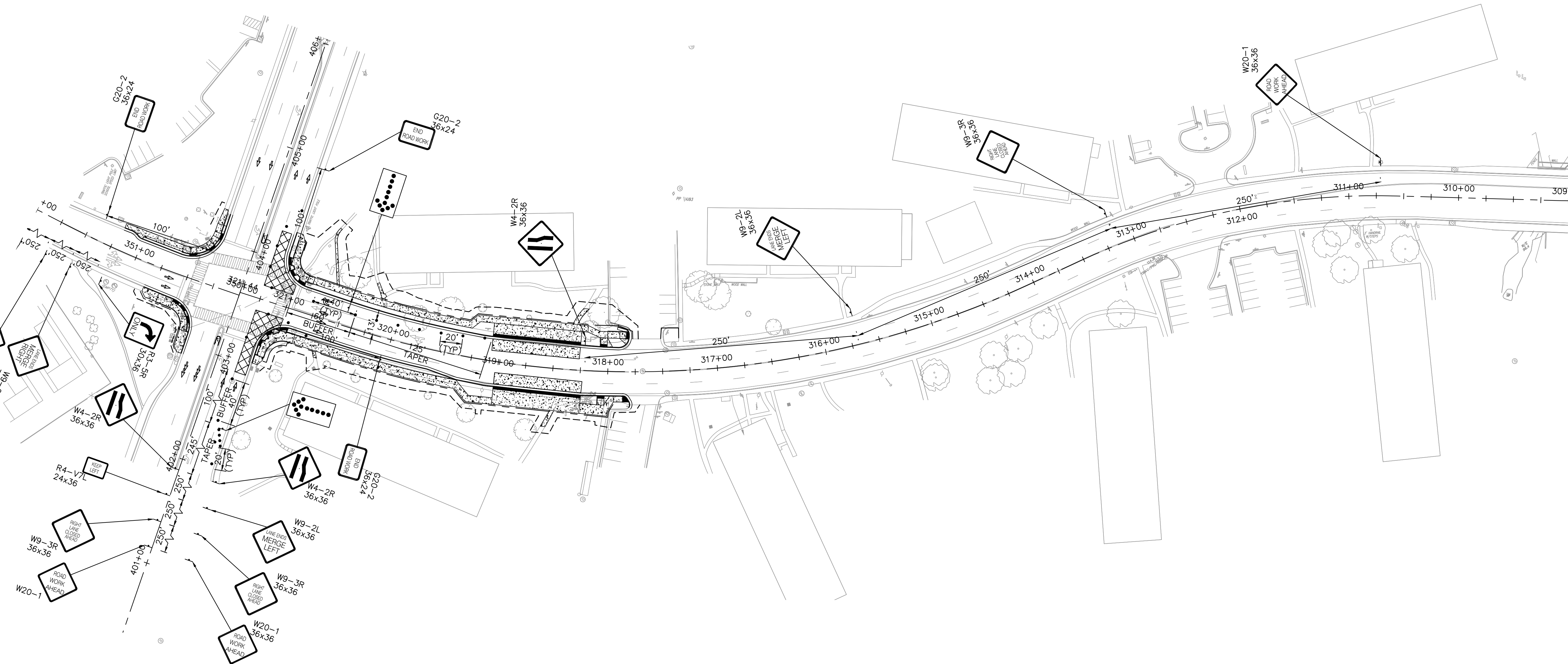
ALEXANDRIA PROJECT NO.: 110104122	DATE OF PLAN ISSUANCE: N/A
CONSULTANT PROJECT ID: N/A	DESIGNED BY: MAT. DATE: 5/5/23
	DRAWN BY: AUB. DATE: 5/5/23
	CHECKED BY: EJD. DATE: 5/5/23
	APPROVED BY: DATE: 5/5/23

MAINTENANCE OF TRAFFIC
PHASE 7A - BEAUREGARD ST
AT SANGER AVE

SHEET
 C-1307R

SCALE 1" = 25'

Plotted By: Grovitt, Sydney Sheet Set: West End Transitway - Phase 1 Layout: C-114 ROADWAY PLAN May 05, 2023 03:09:34pm K:\NVA_Transit\110104122_West_End_Transitway_Design\CADD\PlanSheets\ROADWAY_PLAN.dwg



LEGEND

	WORK ZONE		EXIST. PROPERTY LINE
	TEMPORARY TRAFFIC SIGN		PROP. PROPERTY LINE
	CHANNELIZING DEVICES		PROP. CONSTRUCTION EASEMENT
	GROUP 2: LONGITUDINAL CHANNELIZING DEVICES	PAVEMENT MARKING LEGEND	
	DIRECTION OF TRAFFIC		TYPE B, CLASS 1 WHITE 24" WIDTH
	EXISTING PAVEMENT MARKING		TYPE B, CLASS 1 WHITE 12" WIDTH
	TEMPORARY PAVEMENT MARKING		TYPE B, CLASS 1 DOUBLE YELLOW 4" WIDTH
	TYPE III BARRICADE		TYPE B, CLASS 1 WHITE 4" WIDTH
	DIRECTIONAL ARROW BOARD		TYPE B, CLASS 1 WHITE 8" WIDTH

NOTES

- CONTRACTOR TO MAINTAIN LOCAL ACCESS AT ALL TIMES
- EXISTING PAVEMENT MARKINGS ARE APPROXIMATE AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO IMPLEMENTING ANY TRAFFIC CONTROL MEASURES
- TEMPORARILY CLOSE BUS STOP. COORDINATE WITH DASH TO REDIRECT RIDERS OF ROUTE 31 TO THE STOP AT BEAUREGARD ST AND BRANCH AVE. COORDINATE WITH WMATA TO REDIRECT RIDERS TO OF ROUTE 7A TO THE STOP AT BEAUREGARD ST AND BRANCH AVE.
- THE CONTRACTOR MUST KEEP LANE OPEN DURING THE PEAK HOURS.

PROPOSED IMPROVEMENTS

- MILL & OVERLAY FROM STA. 402+90.87 TO STA. 403+46.47 AND STA. 403+71.72 TO STA. 404+23.10

SEQUENCE OF CONSTRUCTION

- PHASE 7B
 - THE CONTRACTOR SHALL SET UP PHASE 1 EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
 - INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 16.2.
 - MILL AND OVERLAY THE OUTSIDE NORTHBOUND LANE ON BEAUREGARD STREET FROM STA. 402+90.87 TO STA. 403+46.47 AND STA. 403+71.72 TO STA. 404+23.10.



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

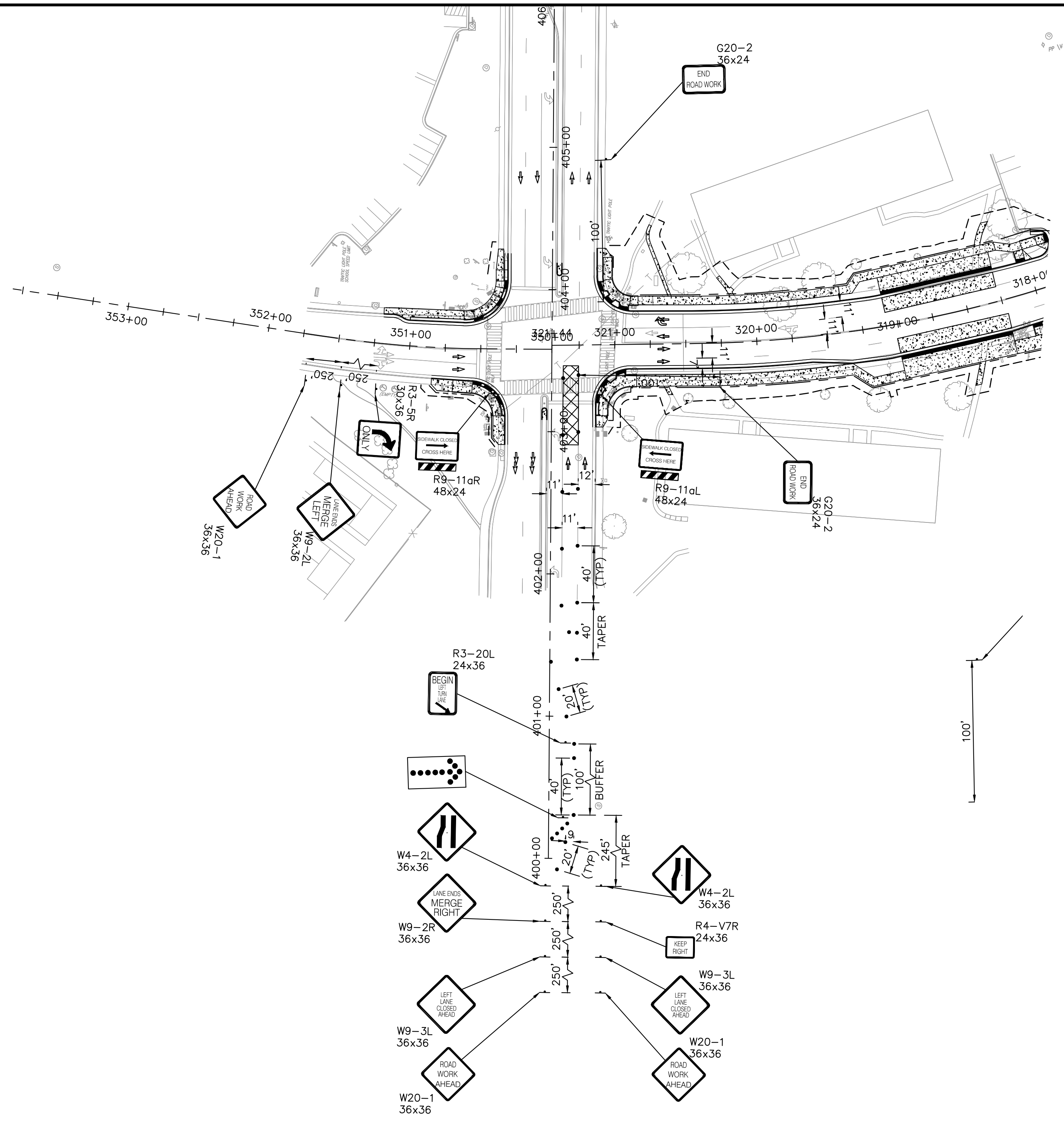
REVISIONS	DATE	DESCRIPTION

ALEXANDRIA PROJECT NO.: 110104122
 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: MAT. DATE: 5/5/23
 DRAWN BY: AUB. DATE: 5/5/23
 CHECKED BY: EJD. DATE: 5/5/23
 APPROVED BY: DATE: 5/5/23

MAINTENANCE OF TRAFFIC
PHASE 7B - BEAUREGARD ST
AT SANGER AVE

SHEET
 C-1307S
 SCALE 1" = 25'

Plotted By: Grovitt, Sydney Sheet Set: West End Transitway - Phase 1 Layout: C-114 ROADWAY PLAN May 05, 2023 03:09:34pm K:\NVA_Transit\10104122_West End Transitway Design\CADD\PlanSheets\ROADWAY PLAN.dwg



LEGEND

- | | | | |
|--|--|--------------------------------|--|
| | WORK ZONE | | EXIST. PROPERTY LINE |
| | TEMPORARY TRAFFIC SIGN | | PROP. PROPERTY LINE |
| | CHANNELIZING DEVICES | | PROP. CONSTRUCTION EASEMENT |
| | GROUP 2: LONGITUDINAL CHANNELIZING DEVICES | PAVEMENT MARKING LEGEND | |
| | DIRECTION OF TRAFFIC | | TYPE B, CLASS 1 WHITE 24" WIDTH |
| | EXISTING PAVEMENT MARKING | | TYPE B, CLASS 1 WHITE 12" WIDTH |
| | TEMPORARY PAVEMENT MARKING | | TYPE B, CLASS 1 DOUBLE YELLOW 4" WIDTH |
| | TYPE III BARRICADE | | TYPE B, CLASS 1 WHITE 4" WIDTH |
| | DIRECTIONAL ARROW BOARD | | TYPE B, CLASS 1 WHITE 8" WIDTH |

NOTES

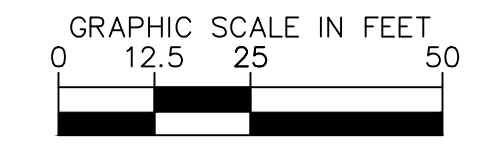
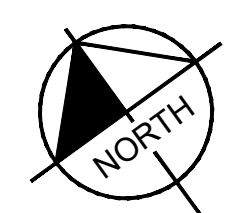
- CONTRACTOR TO MAINTAIN LOCAL ACCESS AT ALL TIMES
- EXISTING PAVEMENT MARKINGS ARE APPROXIMATE AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO IMPLEMENTING ANY TRAFFIC CONTROL MEASURES
- TEMPORARILY CLOSE BUS STOP. COORDINATE WITH DASH TO REDIRECT RIDERS OF ROUTE 31 TO THE STOP AT BEAUREGARD ST AND BRANCH AVE. COORDINATE WITH WMATA TO REDIRECT RIDERS TO OF ROUTE 7A TO THE STOP AT BEAUREGARD ST AND BRANCH AVE.
- THE CONTRACTOR MUST KEEP LANE OPEN DURING THE PEAK HOURS.

PROPOSED IMPROVEMENTS

- MILL & OVERLAY FROM STA. 402+90.87 TO STA. 403+46.47

SEQUENCE OF CONSTRUCTION

- PHASE 7C
 - THE CONTRACTOR SHALL SET UP PHASE 1 EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
 - INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 26.2.
 - MILL AND OVERLAY THE CENTER NORTHBOUND LANE ON BEAUREGARD STREET FROM STA. 402+90.87 TO STA. 403+46.47.



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

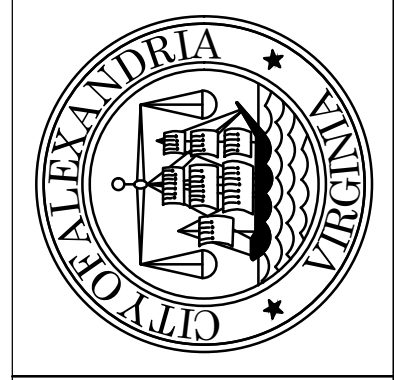
**MAINTENANCE OF TRAFFIC
PHASE 7C - BEAUREGARD ST
AT SANGER AVE**

SHEET
C-1307T
SCALE 1" = 25'

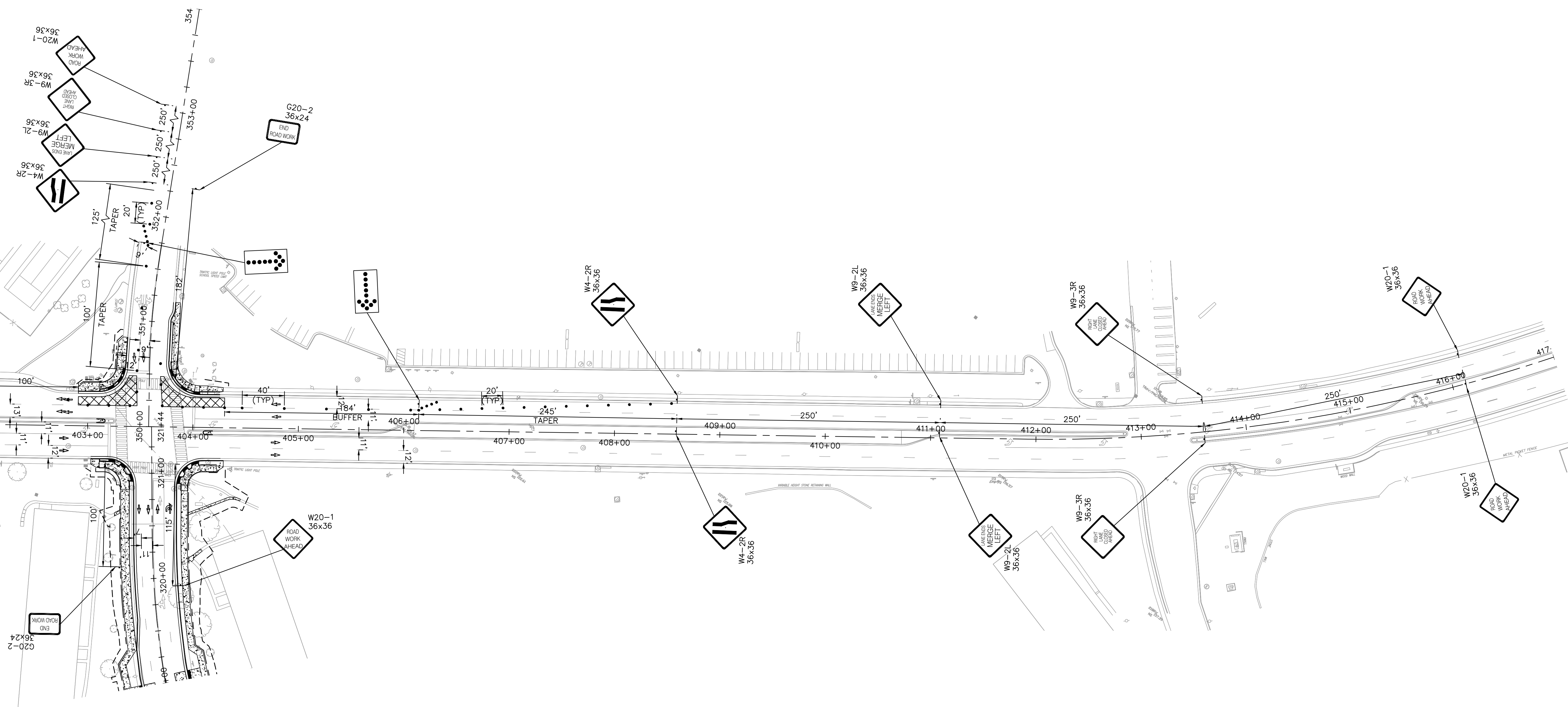
REVISIONS	DATE	DESCRIPTION

ALEXANDRIA PROJECT NO.: 110104122
 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: MAT DATE: 5/5/23
 DRAWN BY: AUB DATE: 5/5/23
 CHECKED BY: EJD DATE: 5/5/23
 APPROVED BY: DATE: 5/5/23

CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313



Plotted By: Grovitt, Sydney Sheet Set: West End Transitway - Phase 1 Layout: C-114 ROADWAY PLAN May 05, 2023 03:09:34pm K:\NVA_Transit\10104122_West End Transitway Design\CADD\PlanSheets\ROADWAY PLAN.dwg

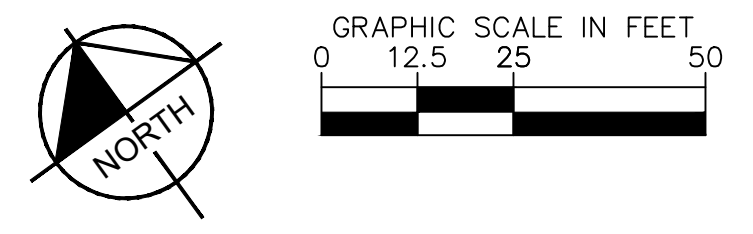


LEGEND	
	WORK ZONE
	TEMPORARY TRAFFIC SIGN
	CHANNELIZING DEVICES
	GROUP 2: LONGITUDINAL CHANNELIZING DEVICES
	DIRECTION OF TRAFFIC
	EXISTING PAVEMENT MARKING
	TEMPORARY PAVEMENT MARKING
	TYPE III BARRICADE
	DIRECTIONAL ARROW BOARD
	EXIST. PROPERTY LINE
	PROP. PROPERTY LINE
	PROP. CONSTRUCTION EASEMENT
PAVEMENT MARKING LEGEND	
	TYPE B, CLASS 1 WHITE 24" WIDTH
	TYPE B, CLASS 1 WHITE 12" WIDTH
	TYPE B, CLASS 1 DOUBLE YELLOW 4" WIDTH
	TYPE B, CLASS 1 WHITE 4" WIDTH
	TYPE B, CLASS 1 WHITE 8" WIDTH

- NOTES**
- CONTRACTOR TO MAINTAIN LOCAL ACCESS AT ALL TIMES
 - EXISTING PAVEMENT MARKINGS ARE APPROXIMATE AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO IMPLEMENTING ANY TRAFFIC CONTROL MEASURES
 - TEMPORARILY CLOSE BUS STOP. COORDINATE WITH DASH TO REDIRECT RIDERS OF ROUTE 31 TO THE STOP AT BEAUREGARD ST AND BRANCH AVE. COORDINATE WITH WMATA TO REDIRECT RIDERS TO OF ROUTE 7A TO THE STOP AT BEAUREGARD ST AND BRANCH AVE.
 - THE CONTRACTOR MUST KEEP LANE OPEN DURING THE PEAK HOURS.

- PROPOSED IMPROVEMENTS**
- MILL & OVERLAY FROM STA. 402+90.87 TO STA. 403+46.47 AND STA. 403+71.72 TO STA. 404+23.10

- SEQUENCE OF CONSTRUCTION**
- PHASE 7D
 - THE CONTRACTOR SHALL SET UP PHASE 1 EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
 - INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 16.2.
 - MILL AND OVERLAY THE OUTSIDE SOUTHBOUND LANE ON BEAUREGARD STREET FROM STA. 402+90.87 TO STA. 403+46.47 AND STA. 403+71.72 TO STA. 404+23.10.



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

REVISIONS	DATE	DESCRIPTION

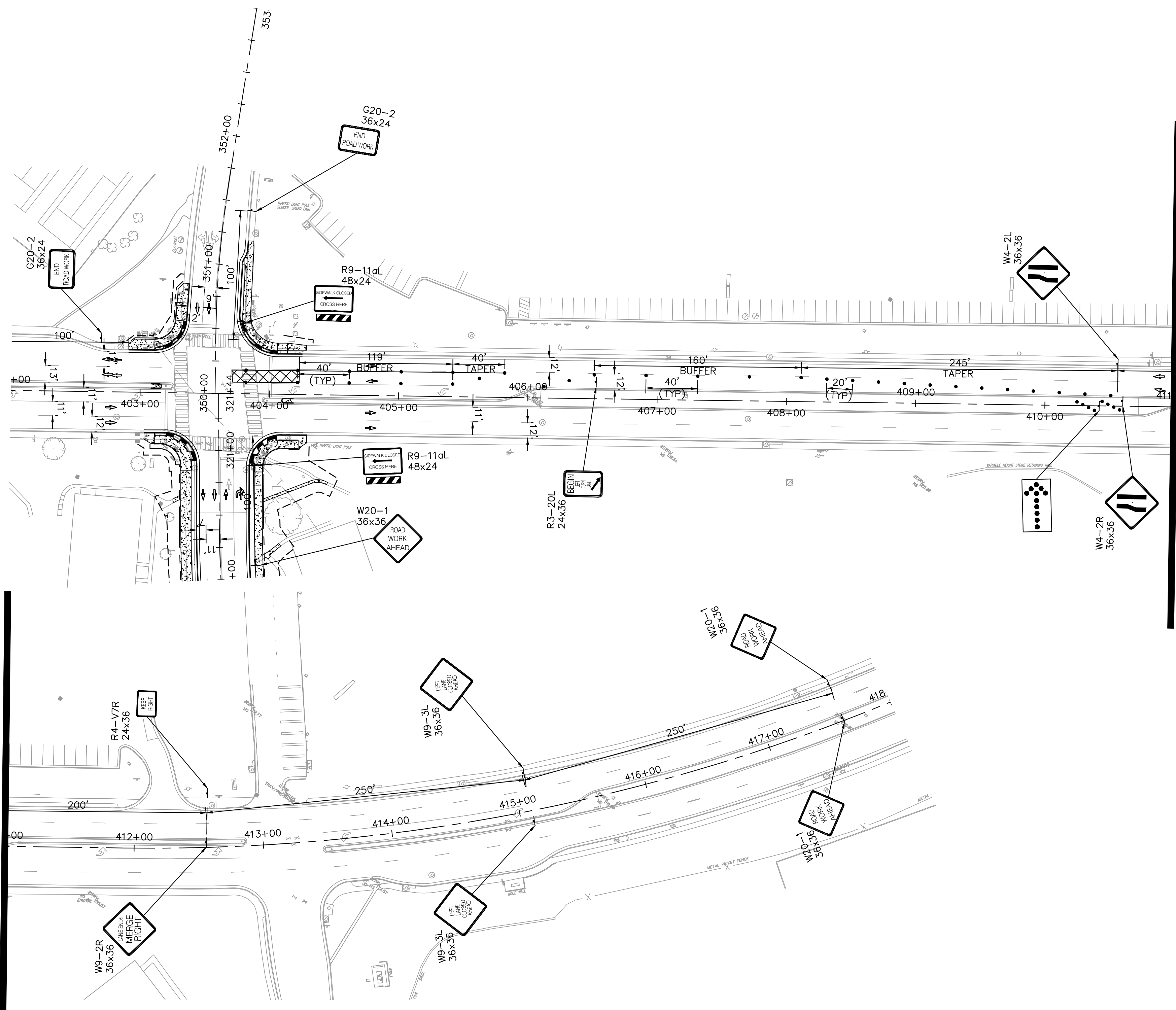
ALEXANDRIA PROJECT NO.: 110104122
 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: MAT DATE: 5/5/23
 DRAWN BY: AUB DATE: 5/5/23
 CHECKED BY: EJD DATE: 5/5/23
 APPROVED BY: DATE: 5/5/23

MAINTENANCE OF TRAFFIC
PHASE 7D - BEAUREGARD ST
AT SANGER AVE

SHEET
 C-1307U
 SCALE 1" = 25'

Plotted By: Grovitt, Sydney Sheet Set: West End Transitway - Phase 1 Layout: C-114 ROADWAY PLAN May 05, 2023 03:09:34pm K:\NVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\ROADWAY PLAN.dwg

MATCHLINE STA. 411+00 SEE THIS SHEET



MATCHLINE STA. 411+00 SEE THIS SHEET

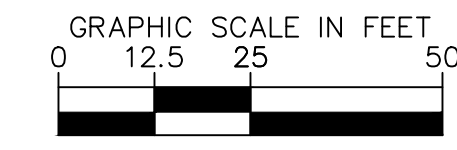
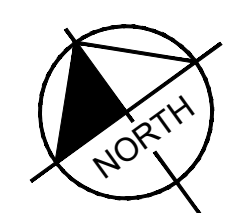
LEGEND

	WORK ZONE		EXIST. PROPERTY LINE
	TEMPORARY TRAFFIC SIGN		PROP. PROPERTY LINE
	CHANNELIZING DEVICES		PROP. CONSTRUCTION EASEMENT
	GROUP 2: LONGITUDINAL CHANNELIZING DEVICES	PAVEMENT MARKING LEGEND	
	DIRECTION OF TRAFFIC		TYPE B, CLASS 1 WHITE 24" WIDTH
	EXISTING PAVEMENT MARKING		TYPE B, CLASS 1 WHITE 12" WIDTH
	TEMPORARY PAVEMENT MARKING		TYPE B, CLASS 1 DOUBLE YELLOW 4" WIDTH
	TYPE III BARRICADE		TYPE B, CLASS 1 WHITE 4" WIDTH
	DIRECTIONAL ARROW BOARD		TYPE B, CLASS 1 WHITE 8" WIDTH

- NOTES**
- CONTRACTOR TO MAINTAIN LOCAL ACCESS AT ALL TIMES
 - EXISTING PAVEMENT MARKINGS ARE APPROXIMATE AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO IMPLEMENTING ANY TRAFFIC CONTROL MEASURES
 - TEMPORARILY CLOSE BUS STOP. COORDINATE WITH DASH TO REDIRECT RIDERS OF ROUTE 31 TO THE STOP AT BEAUREGARD ST AND BRANCH AVE. COORDINATE WITH WMATA TO REDIRECT RIDERS TO OF ROUTE 7A TO THE STOP AT BEAUREGARD ST AND BRANCH AVE.
 - THE CONTRACTOR MUST KEEP LANE OPEN DURING THE PEAK HOURS.

- PROPOSED IMPROVEMENTS**
- MILL & OVERLAY FROM STA. STA. 403+71.72 TO STA. 404+23.10

- SEQUENCE OF CONSTRUCTION**
- PHASE 7E
 - THE CONTRACTOR SHALL SET UP PHASE 1 EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
 - INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 26.2.
 - MILL AND OVERLAY THE CENTER SOUTHBOUND LANE ON BEAUREGARD STREET FROM STA. 403+71.72 TO STA. 404+23.10.



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

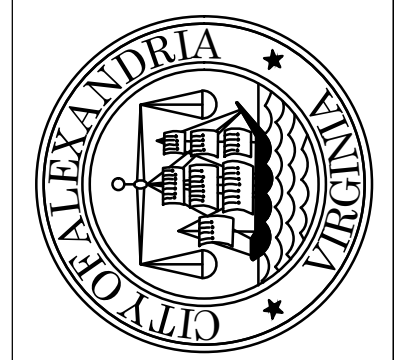
**MAINTENANCE OF TRAFFIC
PHASE 7E - BEAUREGARD ST
AT SANGER AVE**

SHEET
C-1307V
SCALE 1" = 25'

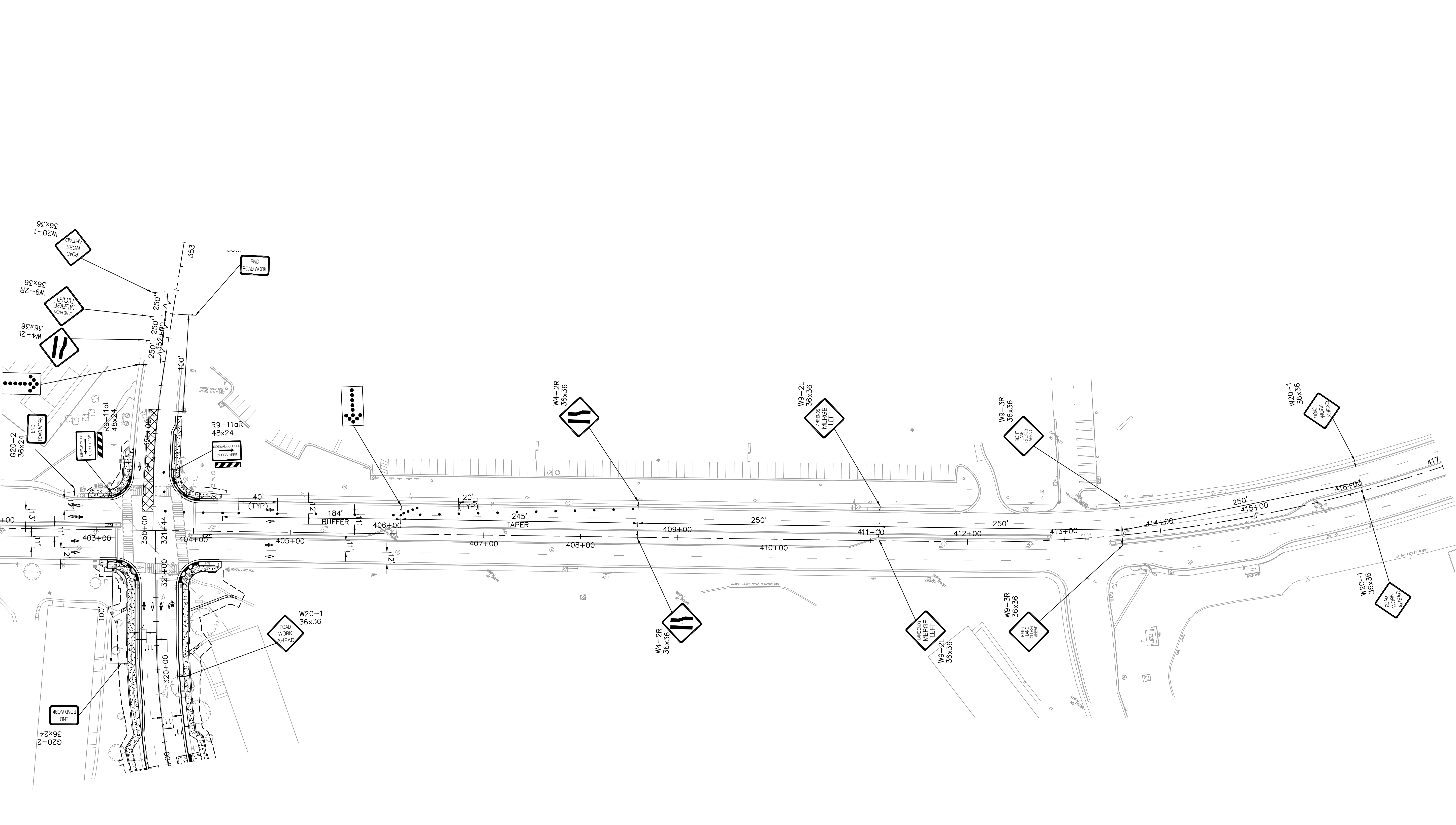
REVISIONS	DATE	DESCRIPTION

ALEXANDRIA PROJECT NO.: 110104122
 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: MAT DATE: 5/5/23
 DRAWN BY: AUB DATE: 5/5/23
 CHECKED BY: EJD DATE: 5/5/23
 APPROVED BY: DATE: 5/5/23

CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313



Plotted By: Grovitt, Sydney Sheet Set: West End Transitway - Phase 1 Layout: C-114 ROADWAY PLAN May 05, 2023 03:09:34pm K:\NVA_Transist\10104122_West End Transitway Design\CADD\PlanSheets\ROADWAY PLAN.dwg



LEGEND

	WORK ZONE		EXIST. PROPERTY LINE
	TEMPORARY TRAFFIC SIGN		PROP. PROPERTY LINE
	CHANNELIZING DEVICES		PROP. CONSTRUCTION EASEMENT
	GROUP 2: LONGITUDINAL CHANNELIZING DEVICES	PAVEMENT MARKING LEGEND	
	DIRECTION OF TRAFFIC		TYPE B, CLASS 1 WHITE 24" WIDTH
	EXISTING PAVEMENT MARKING		TYPE B, CLASS 1 WHITE 12" WIDTH
	TEMPORARY PAVEMENT MARKING		TYPE B, CLASS 1 DOUBLE YELLOW 4" WIDTH
	TYPE III BARRICADE		TYPE B, CLASS 1 WHITE 4" WIDTH
	DIRECTIONAL ARROW BOARD		TYPE B, CLASS 1 WHITE 8" WIDTH

- NOTES**
- CONTRACTOR TO MAINTAIN LOCAL ACCESS AT ALL TIMES
 - EXISTING PAVEMENT MARKINGS ARE APPROXIMATE AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO IMPLEMENTING ANY TRAFFIC CONTROL MEASURES
 - TEMPORARILY CLOSE BUS STOP. COORDINATE WITH DASH TO REDIRECT RIDERS OF ROUTE 31 TO THE STOP AT BEAUREGARD ST AND BRANCH AVE. COORDINATE WITH WMATA TO REDIRECT RIDERS TO OF ROUTE 7A TO THE STOP AT BEAUREGARD ST AND BRANCH AVE.
 - THE CONTRACTOR MUST KEEP LANE OPEN DURING THE PEAK HOURS.

PROPOSED IMPROVEMENTS

- MILL & OVERLAY FROM STA. 350+19.78 TO STA. 351+24.50

- SEQUENCE OF CONSTRUCTION**
- PHASE 7F
 - THE CONTRACTOR SHALL SET UP PHASE 1 EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
 - INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 17.2.
 - MILL AND OVERLAY THE INSIDE WESTBOUND LANE ON SANGER AVENUE FROM STA. 350+19.78 TO STA. 351+24.50.



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

REVISIONS	DATE	DESCRIPTION

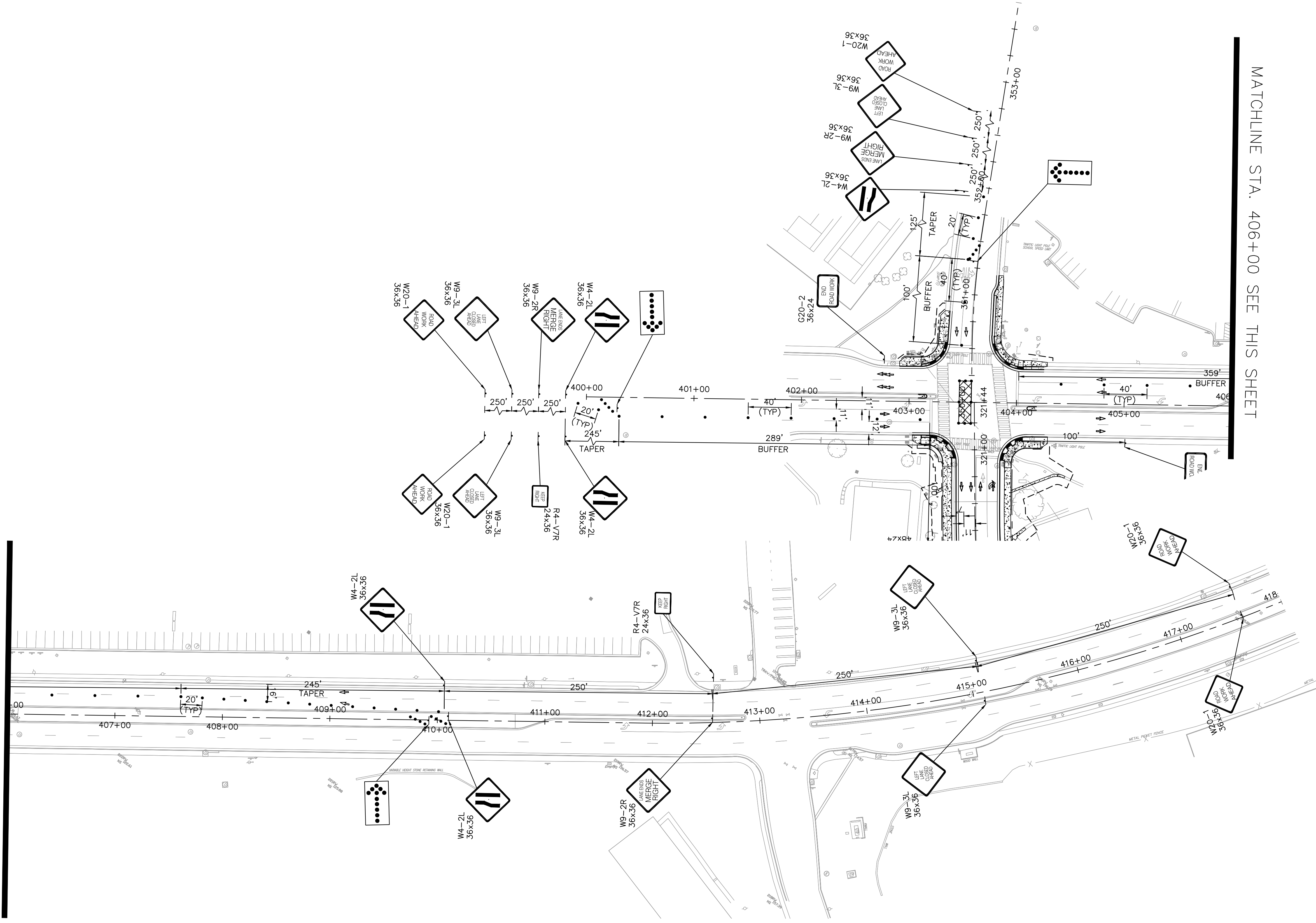
ALEXANDRIA PROJECT NO.: 110104122
 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: MAT DATE: 5/5/23
 DRAWN BY: AUB DATE: 5/5/23
 CHECKED BY: EJD DATE: 5/5/23
 APPROVED BY: DATE: 5/5/23

MAINTENANCE OF TRAFFIC
PHASE 7F - BEAUREGARD ST
AT SANGER AVE

SHEET
 C-1307W
 SCALE 1" = 25'

Plotted By: Grovitt, Sydney Sheet Set: West End Transitway - Phase 1 Layout: C-114 ROADWAY PLAN May 05, 2023 03:09:34pm K:\NVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\ROADWAY PLAN.dwg

MATCHLINE STA. 406+00 SEE THIS SHEET



LEGEND	
	WORK ZONE
	TEMPORARY TRAFFIC SIGN
	CHANNELIZING DEVICES
	GROUP 2: LONGITUDINAL CHANNELIZING DEVICES
	DIRECTION OF TRAFFIC
	EXISTING PAVEMENT MARKING
	TEMPORARY PAVEMENT MARKING
	TYPE III BARRICADE
	DIRECTIONAL ARROW BOARD

PAVEMENT MARKING LEGEND	
	EXIST. PROPERTY LINE
	PROP. PROPERTY LINE
	PROP. CONSTRUCTION EASEMENT
	TYPE B, CLASS 1 WHITE 24" WIDTH
	TYPE B, CLASS 1 WHITE 12" WIDTH
	TYPE B, CLASS 1 DOUBLE YELLOW 4" WIDTH
	TYPE B, CLASS 1 WHITE 4" WIDTH
	TYPE B, CLASS 1 WHITE 8" WIDTH

- NOTES**
- CONTRACTOR TO MAINTAIN LOCAL ACCESS AT ALL TIMES
 - EXISTING PAVEMENT MARKINGS ARE APPROXIMATE AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO IMPLEMENTING ANY TRAFFIC CONTROL MEASURES
 - TEMPORARILY CLOSE BUS STOP. COORDINATE WITH DASH TO REDIRECT RIDERS OF ROUTE 31 TO THE STOP AT BEAUREGARD ST AND BRANCH AVE. COORDINATE WITH WMATA TO REDIRECT RIDERS TO OF ROUTE 7A TO THE STOP AT BEAUREGARD ST AND BRANCH AVE.
 - THE CONTRACTOR MUST KEEP LANE OPEN DURING THE PEAK HOURS.

- PROPOSED IMPROVEMENTS**
- MILL & OVERLAY FROM STA. 403+46.55 TO STA. 403+57.70

- SEQUENCE OF CONSTRUCTION**
- PHASE 7G
 - THE CONTRACTOR SHALL SET UP PHASE 1 EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
 - INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 17.2 AND 26.2.
 - MILL AND OVERLAY THE INSIDE WESTBOUND LANE ON SANGER AVENUE THROUGH THE INTERSECTION WITH BEAUREGARD STREET FROM STA. 403+46.55 TO STA. 403+57.70.

MATCHLINE STA. 406+00 SEE THIS SHEET

WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

**MAINTENANCE OF TRAFFIC
PHASE 7G - BEAUREGARD ST
AT SANGER AVE**

SHEET
C-1307X
SCALE 1" = 25'

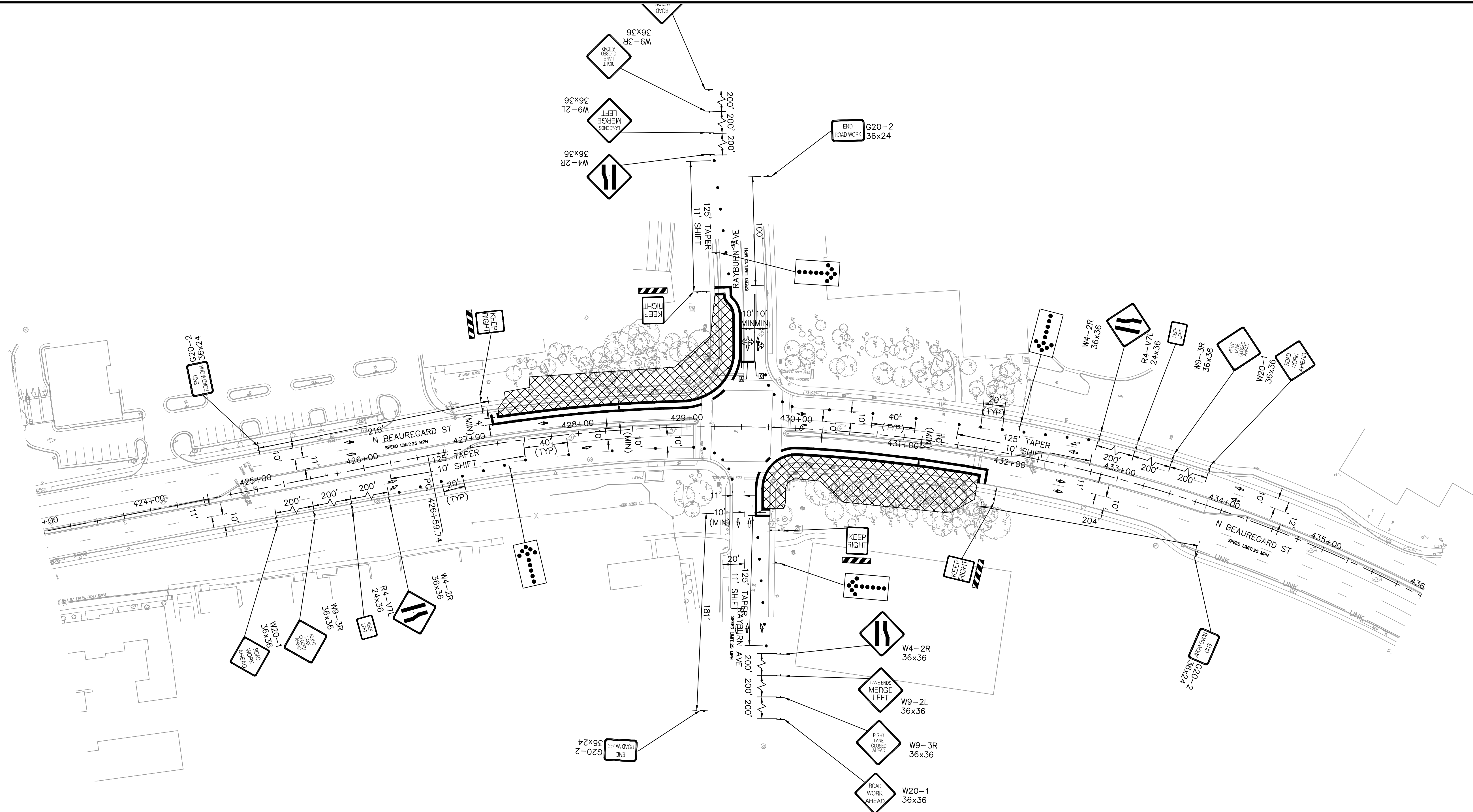
90% DESIGN PHASE

CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

REVISIONS	
DATE	DESCRIPTION

ALEXANDRIA PROJECT NO.: 110104122
DATE OF PLAN ISSUANCE: N/A
CONSULTANT PROJECT ID: N/A
DESIGNED BY: MAT. DATE: 5/5/23
DRAWN BY: AUB. DATE: 5/5/23
CHECKED BY: EJD. DATE: 5/5/23
APPROVED BY: DATE: 5/5/23





LEGEND

	WORK ZONE		EXIST. PROPERTY LINE
	TEMPORARY TRAFFIC SIGN		PROP. PROPERTY LINE
	CHANNELIZING DEVICES		PROP. CONSTRUCTION EASEMENT
	GROUP 2: LONGITUDINAL CHANNELIZING DEVICES	PAVEMENT MARKING LEGEND	
	DIRECTION OF TRAFFIC		TYPE B, CLASS 1 WHITE 24" WIDTH
	EXISTING PAVEMENT MARKING		TYPE B, CLASS 1 WHITE 12" WIDTH
	TEMPORARY PAVEMENT MARKING		TYPE B, CLASS 1 DOUBLE YELLOW 4" WIDTH
	TYPE III BARRICADE		TYPE B, CLASS 1 WHITE 4" WIDTH
	DIRECTIONAL ARROW BOARD		TYPE B, CLASS 1 WHITE 8" WIDTH

NOTES

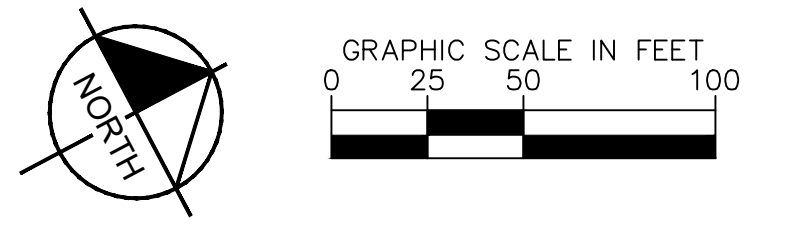
- CONTRACTOR TO MAINTAIN LOCAL ACCESS AT ALL TIMES
- EXISTING PAVEMENT MARKINGS ARE APPROXIMATE AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO IMPLEMENTING ANY TRAFFIC CONTROL MEASURES
- TEMPORARILY CLOSE BUS STOP. COORDINATE WITH DASH TO REDIRECT RIDERS OF ROUTE 31 TO THE STOP AT BEAUREGARD ST AND BRANCH AVE. COORDINATE WITH WMATA TO REDIRECT RIDERS TO OF ROUTE 7A TO THE STOP AT BEAUREGARD ST AND BRANCH AVE.
- THE CONTRACTOR MUST KEEP LANE OPEN DURING THE PEAK HOURS.

PROPOSED IMPROVEMENTS

- SIDEWALK FROM STA. 427+42.63 TO STA. 429+22.12 AND STA. 429+83.94 TO STA. 431+73.75
- PLATFORM FROM STA. 427+67.70 TO STA. 428+83.69 AND STA. 430+48.87 TO STA. 431+52.59
- CURB AND GUTTER FROM STA. 427+29.99 TO STA. 429+31.79 AND STA. 429+76.36 TO STA. 431+73.75

SEQUENCE OF CONSTRUCTION

- PHASE 1
 - THE CONTRACTOR SHALL SET UP PHASE 1 EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
 - INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 17.2 AND 35.1.
 - CONSTRUCT THE SIDEWALK, PLATFORM, AND CURB AND GUTTER FOR THE NORTHBOUND AND SOUTHBOUND BUS STATIONS ALONG BEAUREGARD STREET FROM STA. 427+29.99 TO STA. 429+31.79 AND STA. 429+76.36 TO STA. 431+73.75.



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

**MAINTENANCE OF TRAFFIC
PHASE 1 - BEAUREGARD ST
AT RAYBURN ST**

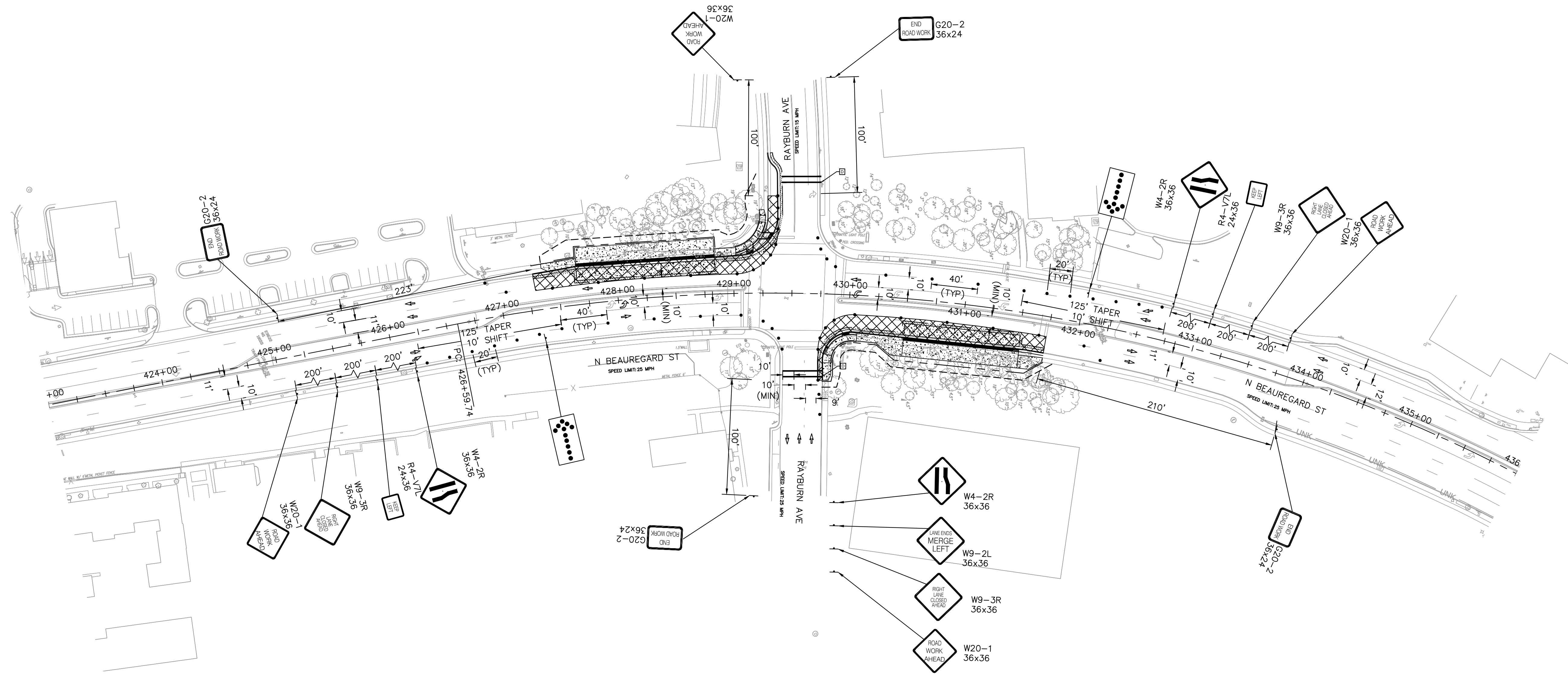
SHEET
C-1308A
SCALE 1" = 25'

90% DESIGN PHASE

CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

REVISIONS	DESCRIPTION
DATE	
BY	

ALEXANDRIA PROJECT NO.: 110104122
 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID.: N/A
 DESIGNED BY: VALUE DATE: 7/10/24
 DRAWN BY: VALUE DATE: 7/10/24
 CHECKED BY: VALUE DATE: 7/10/24
 APPROVED BY: _____ DATE: _____



LEGEND

	WORK ZONE		EXIST. PROPERTY LINE
	TEMPORARY TRAFFIC SIGN		PROP. PROPERTY LINE
	CHANNELIZING DEVICES		PROP. CONSTRUCTION EASEMENT
	GROUP 2: LONGITUDINAL CHANNELIZING DEVICES	PAVEMENT MARKING LEGEND	
	DIRECTION OF TRAFFIC		TYPE B, CLASS 1 WHITE 24" WIDTH
	EXISTING PAVEMENT MARKING		TYPE B, CLASS 1 WHITE 12" WIDTH
	TEMPORARY PAVEMENT MARKING		TYPE B, CLASS 1 DOUBLE YELLOW 4" WIDTH
	TYPE III BARRICADE		TYPE B, CLASS 1 WHITE 4" WIDTH
	DIRECTIONAL ARROW BOARD		TYPE B, CLASS 1 WHITE 8" WIDTH

NOTES

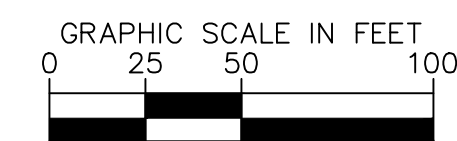
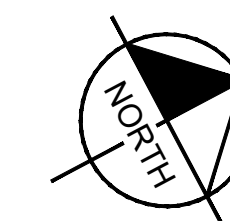
- CONTRACTOR TO MAINTAIN LOCAL ACCESS AT ALL TIMES
- EXISTING PAVEMENT MARKINGS ARE APPROXIMATE AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO IMPLEMENTING ANY TRAFFIC CONTROL MEASURES
- TEMPORARILY CLOSE BUS STOP. COORDINATE WITH DASH TO REDIRECT RIDERS OF ROUTE 31 TO THE STOP AT BEAUREGARD ST AND BRANCH AVE. COORDINATE WITH WMATA TO REDIRECT RIDERS TO OF ROUTE 7A TO THE STOP AT BEAUREGARD ST AND BRANCH AVE.
- THE CONTRACTOR MUST KEEP LANE OPEN DURING THE PEAK HOURS.

PROPOSED IMPROVEMENTS

- CONCRETE BUS PAD FROM STA. 427+67.70 TO STA. 428+83.69 AND STA. 430+48.87 TO STA. 431+52.59

SEQUENCE OF CONSTRUCTION

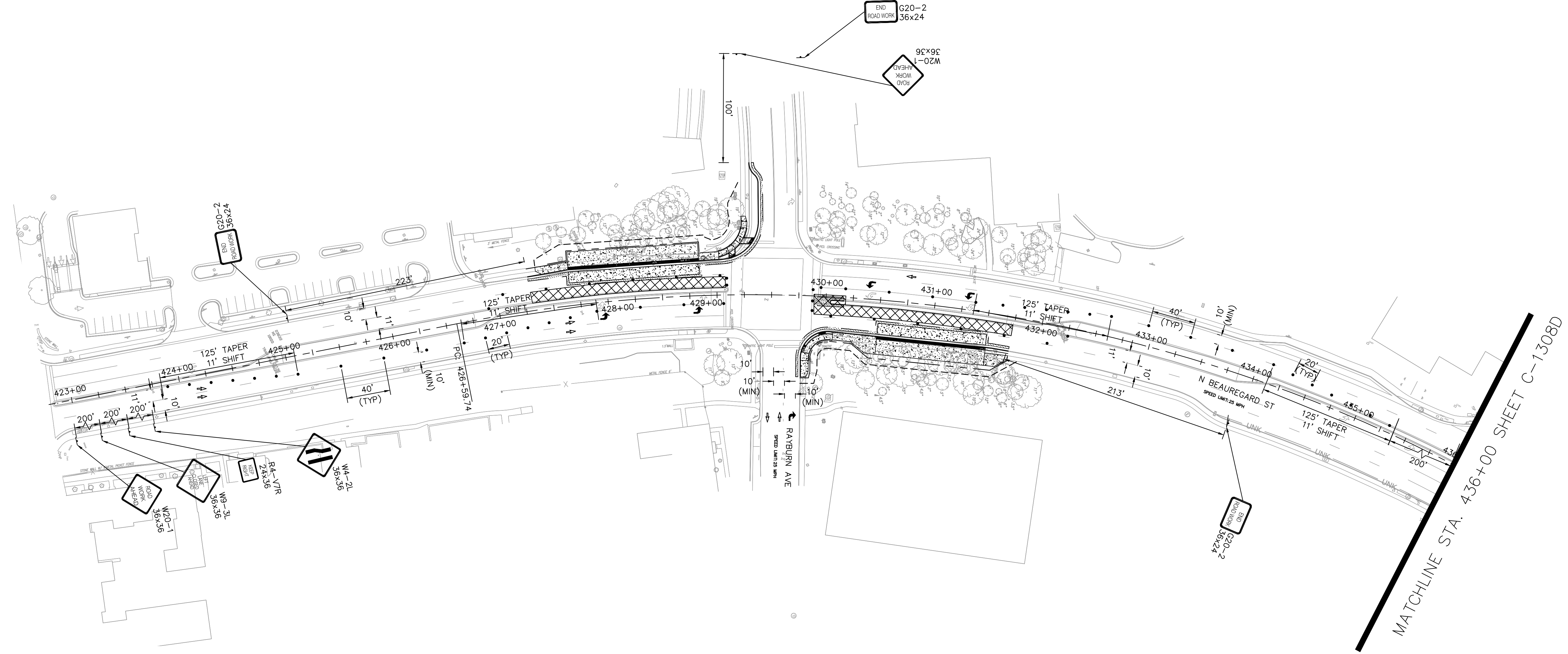
- PHASE 2
 - THE CONTRACTOR SHALL SET UP PHASE 1 EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
 - INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 17.2 AND 35.1.
 - CONSTRUCT THE CONCRETE BUS PAD FOR THE NORTHBOUND AND SOUTHBOUND BUS STATIONS ALONG BEAUREGARD STREET FROM STA. 427+67.70 TO STA. 428+83.69 AND STA. 430+48.87 TO STA. 431+52.59.



REVISIONS	DATE	DESCRIPTION



ALEXANDRIA PROJECT NO.: 110104122
DATE OF PLAN ISSUANCE: N/A
CONSULTANT PROJECT ID: N/A
DESIGNED BY: VALUE DATE: 7/11/24
DRAWN BY: VALUE DATE: 7/11/24
CHECKED BY: VALUE DATE: 7/11/24
APPROVED BY: _____ DATE: _____



LEGEND

	WORK ZONE		EXIST. PROPERTY LINE
	TEMPORARY TRAFFIC SIGN		PROP. PROPERTY LINE
	CHANNELIZING DEVICES		PROP. CONSTRUCTION EASEMENT
	GROUP 2: LONGITUDINAL CHANNELIZING DEVICES	PAVEMENT MARKING LEGEND	
	DIRECTION OF TRAFFIC		TYPE B, CLASS 1 WHITE 24" WIDTH
	EXISTING PAVEMENT MARKING		TYPE B, CLASS 1 WHITE 12" WIDTH
	TEMPORARY PAVEMENT MARKING		TYPE B, CLASS 1 DOUBLE YELLOW 4" WIDTH
	TYPE III BARRICADE		TYPE B, CLASS 1 WHITE 4" WIDTH
	DIRECTIONAL ARROW BOARD		TYPE B, CLASS 1 WHITE 8" WIDTH

NOTES

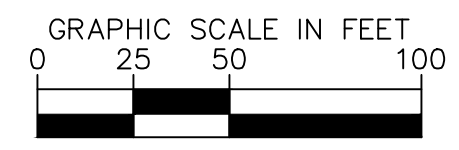
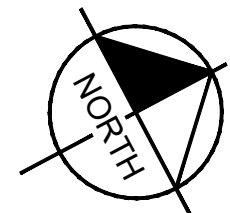
- CONTRACTOR TO MAINTAIN LOCAL ACCESS AT ALL TIMES
- EXISTING PAVEMENT MARKINGS ARE APPROXIMATE AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO IMPLEMENTING ANY TRAFFIC CONTROL MEASURES
- TEMPORARILY CLOSE BUS STOP. COORDINATE WITH DASH TO REDIRECT RIDERS OF ROUTE 31 TO THE STOP AT BEAUREGARD ST AND BRANCH AVE. COORDINATE WITH WMATA TO REDIRECT RIDERS TO OF ROUTE 7A TO THE STOP AT BEAUREGARD ST AND BRANCH AVE.
- THE CONTRACTOR MUST KEEP LANE OPEN DURING THE PEAK HOURS.

PROPOSED IMPROVEMENTS

- MILL AND OVERLAY FROM STA. 429+29.99 TO STA. 429+31.79 AND STA. 429+76.36 TO STA. 431+73.75

SEQUENCE OF CONSTRUCTION

- PHASE 3
 - THE CONTRACTOR SHALL SET UP PHASE 1 EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
 - INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 16.2 AND 39.2.
 - CONSTRUCT THE MILL AND OVERLAY FOR THE NORTHBOUND AND SOUTHBOUND BUS STATIONS ALONG BEAUREGARD STREET FROM STA. 427+29.99 TO STA. 429+31.79 AND STA. 429+76.36 TO STA. 431+73.75.
 - DEMO EXISTING CURB MEDIAN FROM STA. 429+89.01 TO STA. 430+16.59 AND CONSTRUCT THE PROPOSED CURB AND MEDIAN FROM STA. 430+03.84 TO 430+16.59.



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

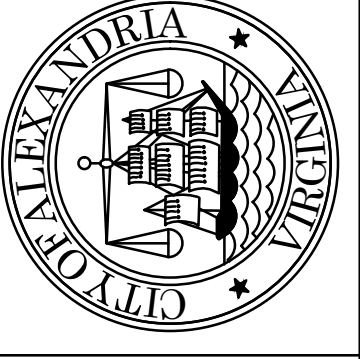
**MAINTENANCE OF TRAFFIC
PHASE 3 - BEAUREGARD ST
AT RAYBURN ST**

SHEET
C-1308C
SCALE 1" = 25'

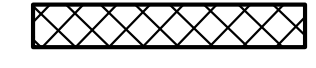














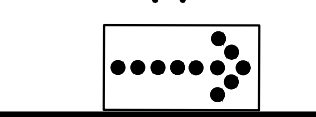

REVISIONS	DATE	DESCRIPTION

ALEXANDRIA PROJECT NO.: 110104122
 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: VALUE DATE: 7/11/24
 DRAWN BY: VALUE DATE: 7/11/24
 CHECKED BY: VALUE DATE: 7/11/24
 APPROVED BY: VALUE DATE:

CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313



LEGEND

	WORK ZONE		EXIST. PROPERTY LINE
	TEMPORARY TRAFFIC SIGN		PROP. PROPERTY LINE
	CHANNELIZING DEVICES		PROP. CONSTRUCTION EASEMENT
	GROUP 2: LONGITUDINAL CHANNELIZING DEVICES	PAVEMENT MARKING LEGEND	
	DIRECTION OF TRAFFIC		TYPE B, CLASS 1 WHITE 24" WIDTH
	EXISTING PAVEMENT MARKING		TYPE B, CLASS 1 WHITE 12" WIDTH
	TEMPORARY PAVEMENT MARKING		TYPE B, CLASS 1 DOUBLE YELLOW 4" WIDTH
	TYPE III BARRICADE		TYPE B, CLASS 1 WHITE 4" WIDTH
	DIRECTIONAL ARROW BOARD		TYPE B, CLASS 1 WHITE 8" WIDTH

NOTES

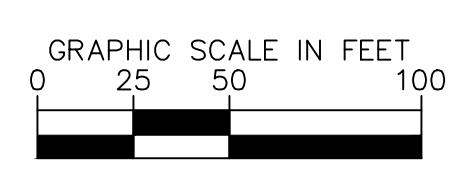
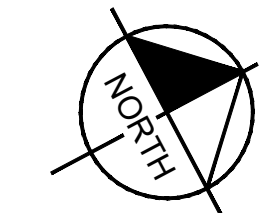
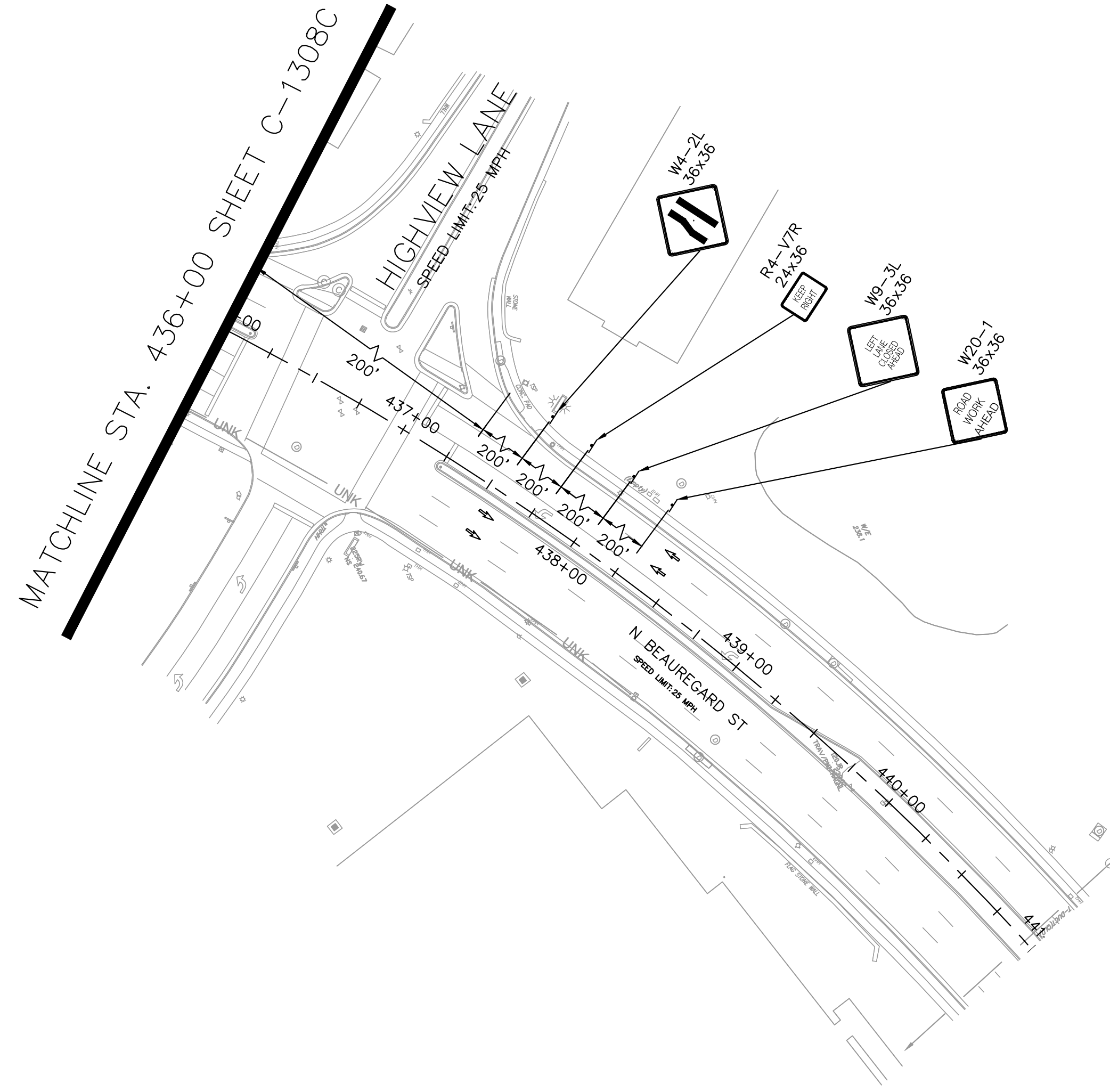
- CONTRACTOR TO MAINTAIN LOCAL ACCESS AT ALL TIMES
- EXISTING PAVEMENT MARKINGS ARE APPROXIMATE AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO IMPLEMENTING ANY TRAFFIC CONTROL MEASURES
- TEMPORARILY CLOSE BUS STOP. COORDINATE WITH DASH TO REDIRECT RIDERS OF ROUTE 31 TO THE STOP AT BEAUREGARD ST AND BRANCH AVE. COORDINATE WITH WMATA TO REDIRECT RIDERS TO OF ROUTE 7A TO THE STOP AT BEAUREGARD ST AND BRANCH AVE.
- THE CONTRACTOR MUST KEEP LANE OPEN DURING THE PEAK HOURS.

PROPOSED IMPROVEMENTS

- MILL AND OVERLAY FROM STA. 427+29.99 TO STA. 429+31.79 AND STA. 429+76.36 TO STA. 431+73.75

SEQUENCE OF CONSTRUCTION

- PHASE 3
 - THE CONTRACTOR SHALL SET UP PHASE 1 EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
 - INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 16.2 AND 39.2.
 - CONSTRUCT THE MILL AND OVERLAY FOR THE NORTHBOUND AND SOUTHBOUND BUS STATIONS ALONG BEAUREGARD STREET FROM STA. 427+29.99 TO STA. 429+31.79 AND STA. 429+76.36 TO STA. 431+73.75.
 - DEMO EXISTING CURB MEDIAN FROM STA. 429+89.01 TO STA. 430+16.59 AND CONSTRUCT THE PROPOSED CURB AND MEDIAN FROM STA. 430+03.84 TO 430+16.59.



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

**MAINTENANCE OF TRAFFIC
 PHASE 3 - BEAUREGARD ST
 AT RAYBURN ST**

SHEET
 C-1308D
 SCALE 1" = 25'

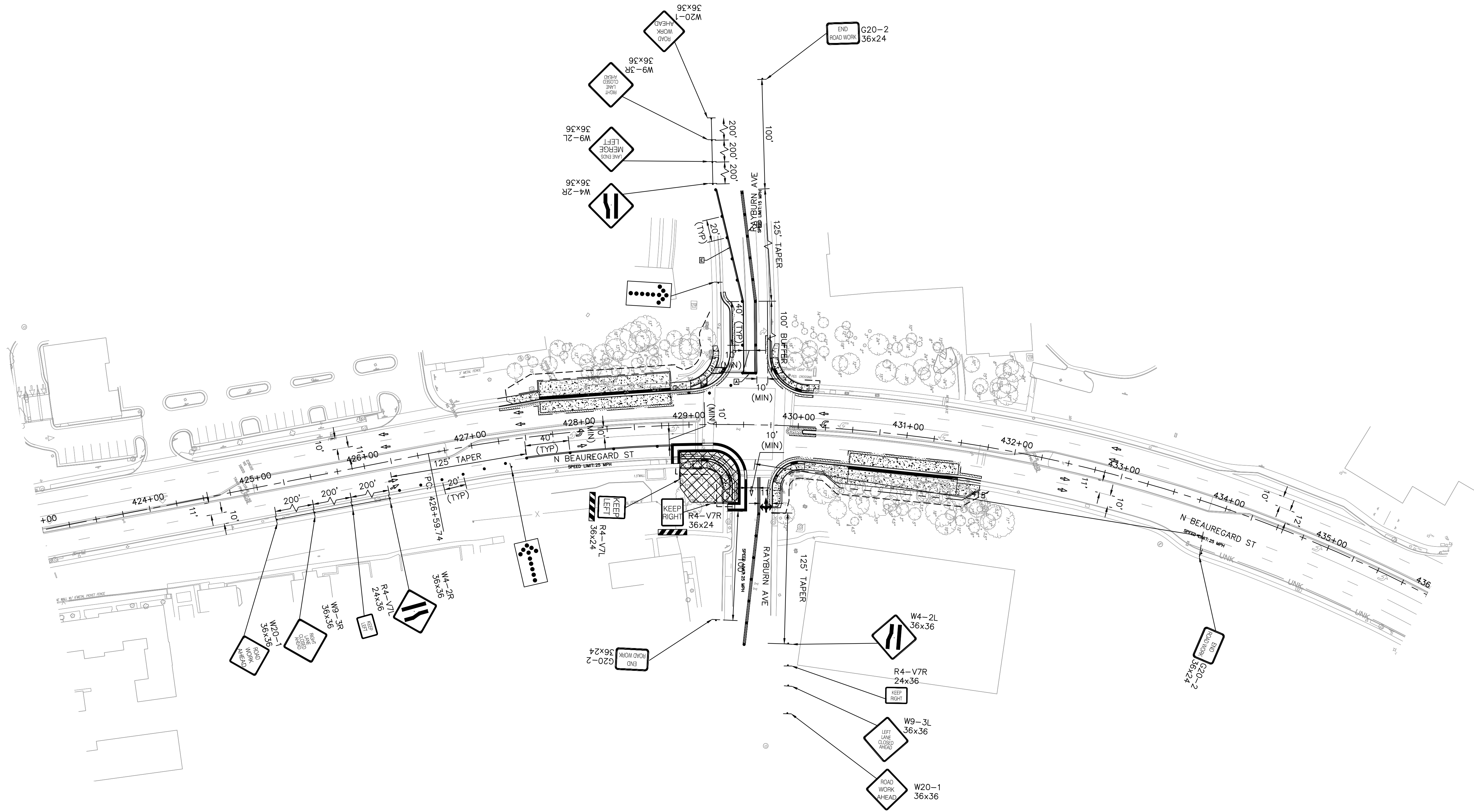
REVISIONS	DATE	DESCRIPTION

ALEXANDRIA PROJECT NO.: 110104122
 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: VALUE DATE: 7/11/24
 DRAWN BY: VALUE DATE: 7/11/24
 CHECKED BY: VALUE DATE: 7/11/24
 APPROVED BY: _____ DATE: _____

CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313



Plotted By: Lising, Andrew Sheet Set: West End Transitway - Phase 1 Layout: PHASE 4 - BEAUREGARD ST AT RAYBURN ST July 11, 2024 11:52:01am K:\NVA_Transit\110104122_West_End_Transitway_Design\CADD\PlanSheets\MOT_BEAUREGARD_PH4.dwg



LEGEND

	WORK ZONE
	TEMPORARY TRAFFIC SIGN
	CHANNELIZING DEVICES
	GROUP 2: LONGITUDINAL CHANNELIZING DEVICES
	DIRECTION OF TRAFFIC
	EXISTING PAVEMENT MARKING
	TEMPORARY PAVEMENT MARKING
	TYPE III BARRICADE
	DIRECTIONAL ARROW BOARD

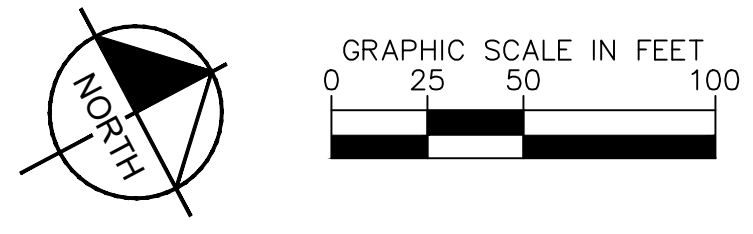
PAVEMENT MARKING LEGEND

	EXIST. PROPERTY LINE
	PROP. PROPERTY LINE
	PROP. CONSTRUCTION EASEMENT
	TYPE B, CLASS 1 WHITE 24" WIDTH
	TYPE B, CLASS 1 WHITE 12" WIDTH
	TYPE B, CLASS 1 DOUBLE YELLOW 4" WIDTH
	TYPE B, CLASS 1 WHITE 4" WIDTH
	TYPE B, CLASS 1 WHITE 8" WIDTH

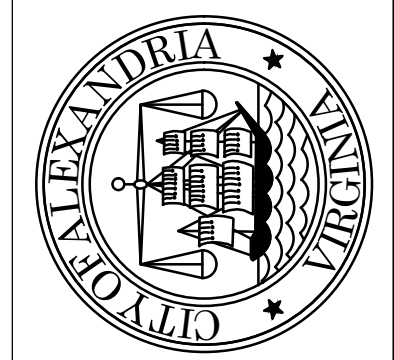
- NOTES**
- CONTRACTOR TO MAINTAIN LOCAL ACCESS AT ALL TIMES
 - EXISTING PAVEMENT MARKINGS ARE APPROXIMATE AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO IMPLEMENTING ANY TRAFFIC CONTROL MEASURES
 - TEMPORARILY CLOSE BUS STOP. COORDINATE WITH DASH TO REDIRECT RIDERS OF ROUTE 31 TO THE STOP AT BEAUREGARD ST AND BRANCH AVE. COORDINATE WITH WMATA TO REDIRECT RIDERS TO OF ROUTE 7A TO THE STOP AT BEAUREGARD ST AND BRANCH AVE.
 - THE CONTRACTOR MUST KEEP LANE OPEN DURING THE PEAK HOURS.

- PROPOSED IMPROVEMENTS**
- SIDEWALK FROM STA. 428+91.08 TO STA. 429+47.68.
 - CURB AND GUTTER FROM STA. 428+91.08 TO STA. 429+47.68.

- SEQUENCE OF CONSTRUCTION**
- PHASE 4
 - THE CONTRACTOR SHALL SET UP PHASE 1 EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
 - INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 17.2 AND 35.1.
 - CONSTRUCT THE SIDEWALK AND CURB AND GUTTER FOR THE NORTHBOUND CORNER OF BEAUREGARD STREET AND RAYBURN AVENUE FROM STA. 428+91.08 TO STA. 429+47.68.



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS **90% DESIGN PHASE**



CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

REVISIONS	DATE	DESCRIPTION

ALEXANDRIA PROJECT NO.: 110104122
 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: VALUE DATE: 7/11/24
 DRAWN BY: VALUE DATE: 7/11/24
 CHECKED BY: VALUE DATE: 7/11/24
 APPROVED BY: _____ DATE: _____

MAINTENANCE OF TRAFFIC
PHASE 4 - BEAUREGARD ST
AT RAYBURN ST

SHEET
 C-1308E
 SCALE 1" = 25'

Plotted By: Lising, Andrew Sheet Set: West End Transitway - Phase 1 Layout: PHASE 5 - BEAUREGARD ST AT RAYBURN ST July 11, 2024 11:55:42am K:\VVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\MOT_BEAUREGARD PH5.dwg

90% DESIGN PHASE



CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

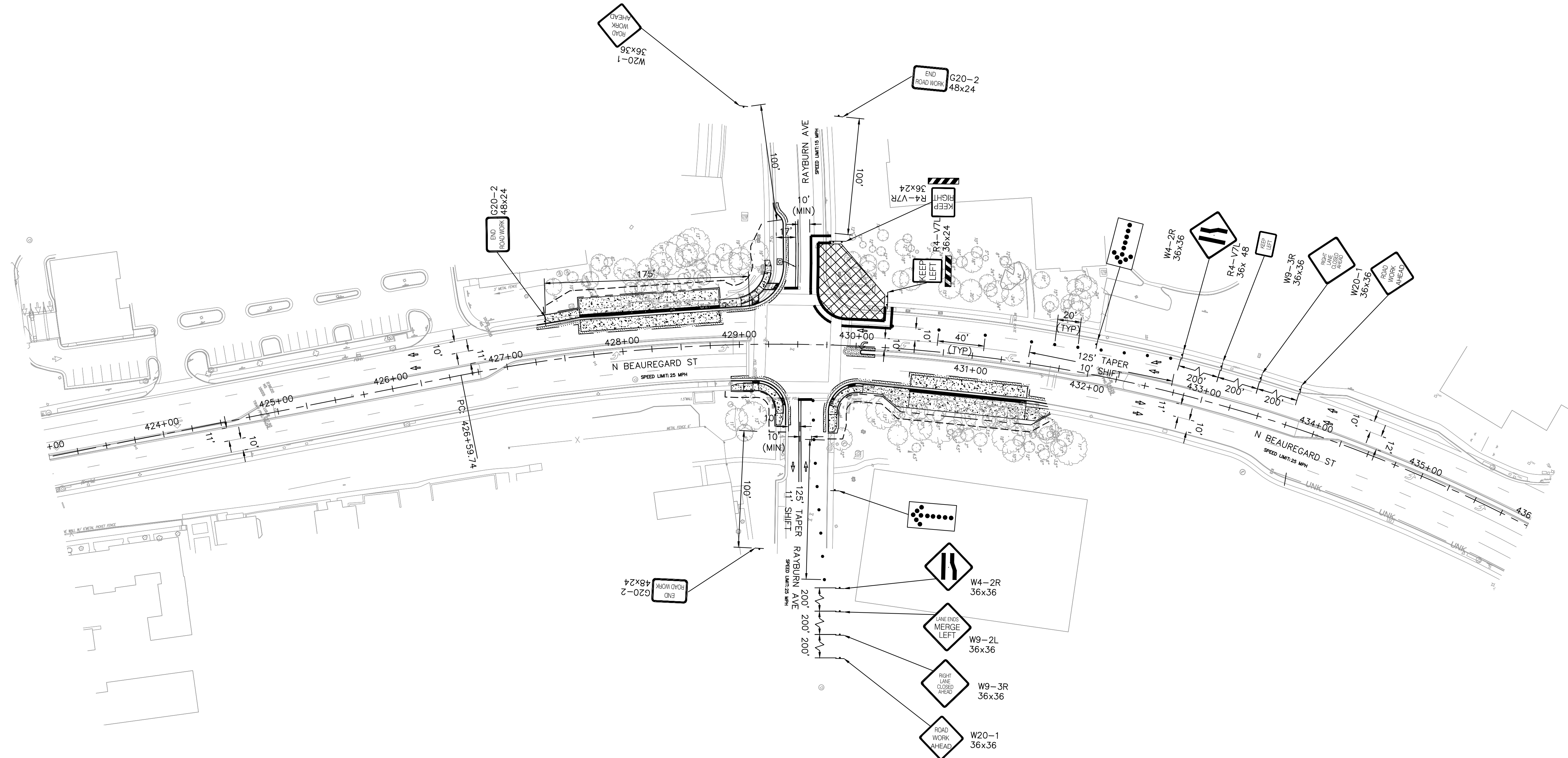
WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

MAINTENANCE OF TRAFFIC
PHASE 5 - BEAUREGARD ST
AT RAYBURN ST

SHEET
C-1308F
SCALE 1" = 25'

REVISIONS	DATE	DESCRIPTION

ALEXANDRIA PROJECT NO.: 110104122
DATE OF PLAN ISSUANCE: N/A
CONSULTANT PROJECT ID: N/A
DESIGNED BY: VALUE DATE: 7/11/24
DRAWN BY: VALUE DATE: 7/11/24
CHECKED BY: VALUE DATE: 7/11/24
APPROVED BY: _____ DATE: _____



LEGEND

	WORK ZONE
	TEMPORARY TRAFFIC SIGN
	CHANNELIZING DEVICES
	GROUP 2: LONGITUDINAL CHANNELIZING DEVICES
	DIRECTION OF TRAFFIC
	EXISTING PAVEMENT MARKING
	TEMPORARY PAVEMENT MARKING
	TYPE III BARRICADE
	DIRECTIONAL ARROW BOARD

	EXIST. PROPERTY LINE
	PROP. PROPERTY LINE
	PROP. CONSTRUCTION EASEMENT

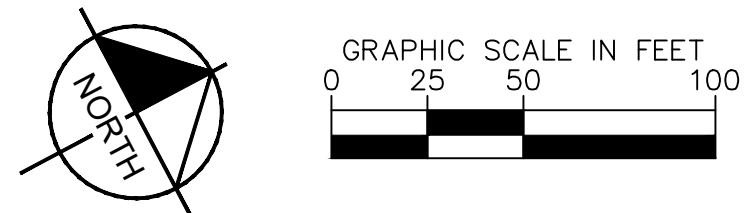
PAVEMENT MARKING LEGEND

	TYPE B, CLASS 1 WHITE 24" WIDTH
	TYPE B, CLASS 1 WHITE 12" WIDTH
	TYPE B, CLASS 1 DOUBLE YELLOW 4" WIDTH
	TYPE B, CLASS 1 WHITE 4" WIDTH
	TYPE B, CLASS 1 WHITE 8" WIDTH

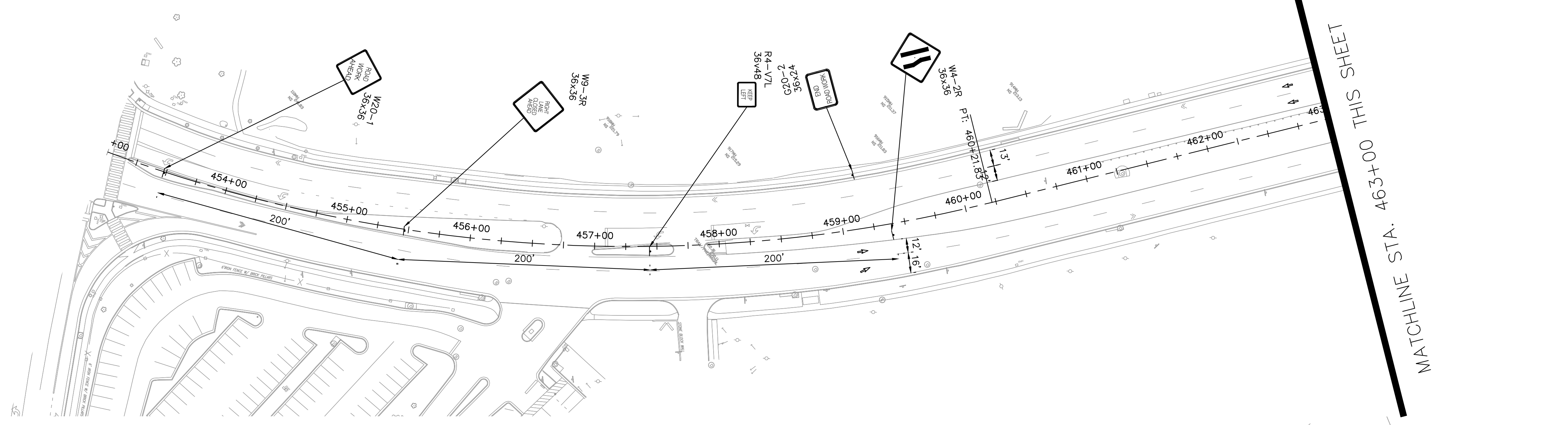
- NOTES**
- CONTRACTOR TO MAINTAIN LOCAL ACCESS AT ALL TIMES
 - EXISTING PAVEMENT MARKINGS ARE APPROXIMATE AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO IMPLEMENTING ANY TRAFFIC CONTROL MEASURES
 - TEMPORARILY CLOSE BUS STOP. COORDINATE WITH DASH TO REDIRECT RIDERS OF ROUTE 31 TO THE STOP AT BEAUREGARD ST AND BRANCH AVE. COORDINATE WITH WMATA TO REDIRECT RIDERS TO OF ROUTE 7A TO THE STOP AT BEAUREGARD ST AND BRANCH AVE.
 - THE CONTRACTOR MUST KEEP LANE OPEN DURING THE PEAK HOURS.

- PROPOSED IMPROVEMENTS**
- SIDEWALK FROM STA. 429+66.72 TO STA. 430+22.85.
 - CURB AND GUTTER FROM STA. 429+66.72 TO STA. 430+22.85.

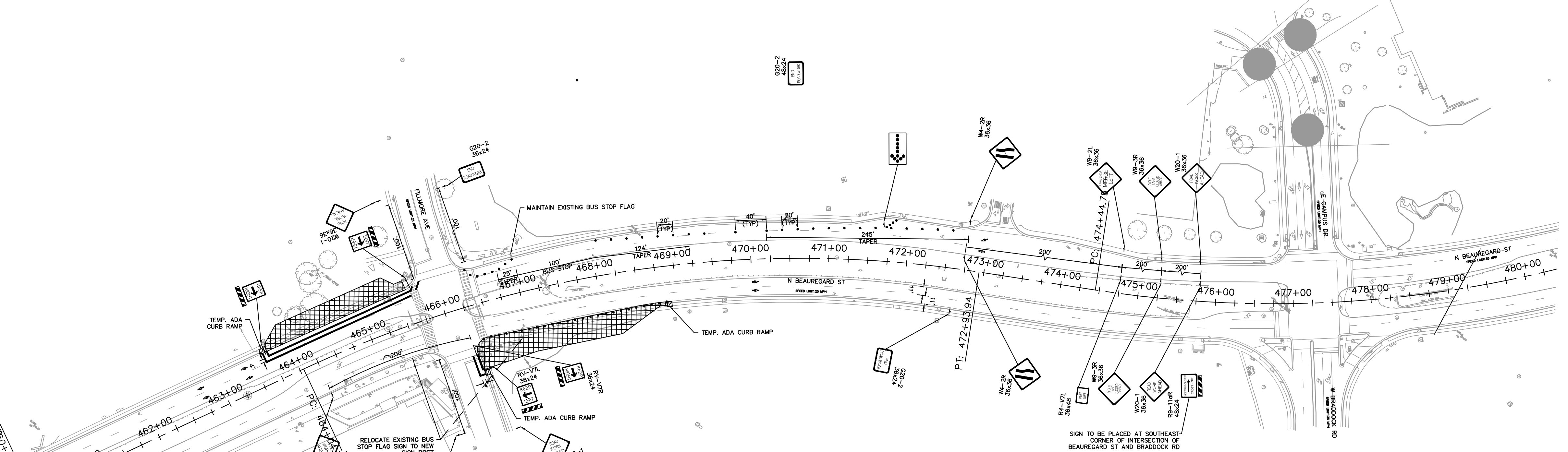
- SEQUENCE OF CONSTRUCTION**
- PHASE 5
 - THE CONTRACTOR SHALL SET UP PHASE 1 EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
 - INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 17.2 AND 35.1.
 - CONSTRUCT THE SIDEWALK AND CURB AND GUTTER FOR THE SOUTHBOUND CORNER OF BEAUREGARD STREET AND RAYBURN AVENUE FROM STA. 429+66.72 TO STA. 430+22.85.



Plotted By: Grovitt, Sydney Sheet Set: West End Transitway - Phase 1 Layout: C-114 ROADWAY PLAN May 05, 2023 03:09:34pm K:\NVA_Transit\110104122_West_End_Transitway_Design\CADD\PlanSheets\ROADWAY_PLAN.dwg



MATCHLINE STA. 463+00 THIS SHEET



MATCHLINE STA. 463+00 THIS SHEET

LEGEND

	WORK ZONE
	TEMPORARY TRAFFIC SIGN
	CHANNELIZING DEVICES
	GROUP 2: LONGITUDINAL CHANNELIZING DEVICES
	DIRECTION OF TRAFFIC
	EXISTING PAVEMENT MARKING
	TEMPORARY PAVEMENT MARKING
	TYPE III BARRICADE
	DIRECTIONAL ARROW BOARD

	EXIST. PROPERTY LINE
	PROP. PROPERTY LINE
	PROP. CONSTRUCTION EASEMENT

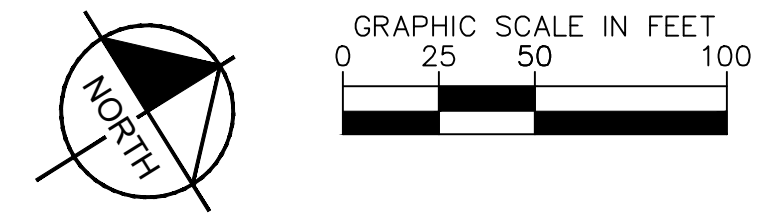
PAVEMENT MARKING LEGEND

	TYPE B, CLASS 1 WHITE 24" WIDTH
	TYPE B, CLASS 1 WHITE 12" WIDTH
	TYPE B, CLASS 1 DOUBLE YELLOW 4" WIDTH
	TYPE B, CLASS 1 WHITE 4" WIDTH
	TYPE B, CLASS 1 WHITE 8" WIDTH

- NOTES**
- CONTRACTOR TO MAINTAIN LOCAL ACCESS AT ALL TIMES
 - EXISTING PAVEMENT MARKINGS ARE APPROXIMATE AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO IMPLEMENTING ANY TRAFFIC CONTROL MEASURES
 - TEMPORARILY CLOSE BUS STOP. COORDINATE WITH DASH TO REDIRECT RIDERS OF ROUTE 31 TO THE STOP AT BEAUREGARD ST AND BRANCH AVE. COORDINATE WITH WMATA TO REDIRECT RIDERS TO OF ROUTE 7A TO THE STOP AT BEAUREGARD ST AND BRANCH AVE.
 - THE CONTRACTOR MUST KEEP LANE OPEN DURING THE PEAK HOURS.

- PROPOSED IMPROVEMENTS**
- SIDEWALK FROM STA. 463+70.98 TO STA. 465+61.33 AND STA. 466+25.85 TO STA. 468+8614
 - PLATFORM FROM STA. 463+70.98 TO STA. 465+61.33 AND STA. 466+25.85 TO STA. 468+8614
 - CURB AND GUTTER FROM STA. 463+70.98 TO STA. 465+61.33 AND STA. 466+25.85 TO STA. 468+86.14

- SEQUENCE OF CONSTRUCTION**
- PHASE 1A
 - THE CONTRACTOR SHALL SET UP PHASE 1 EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
 - INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 17.2 AND 35.1.
 - CONSTRUCT THE SIDEWALK, PLATFORM, AND CURB AND GUTTER FOR THE NORTHBOUND AND SOUTHBOUND BUS STATIONS ALONG BEAUREGARD STREET FROM STA. 463+70.98 TO STA. 465+61.33 AND STA. 466+25.85 TO STA. 468+86.14.



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS



CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

REVISIONS

DATE	DESCRIPTION

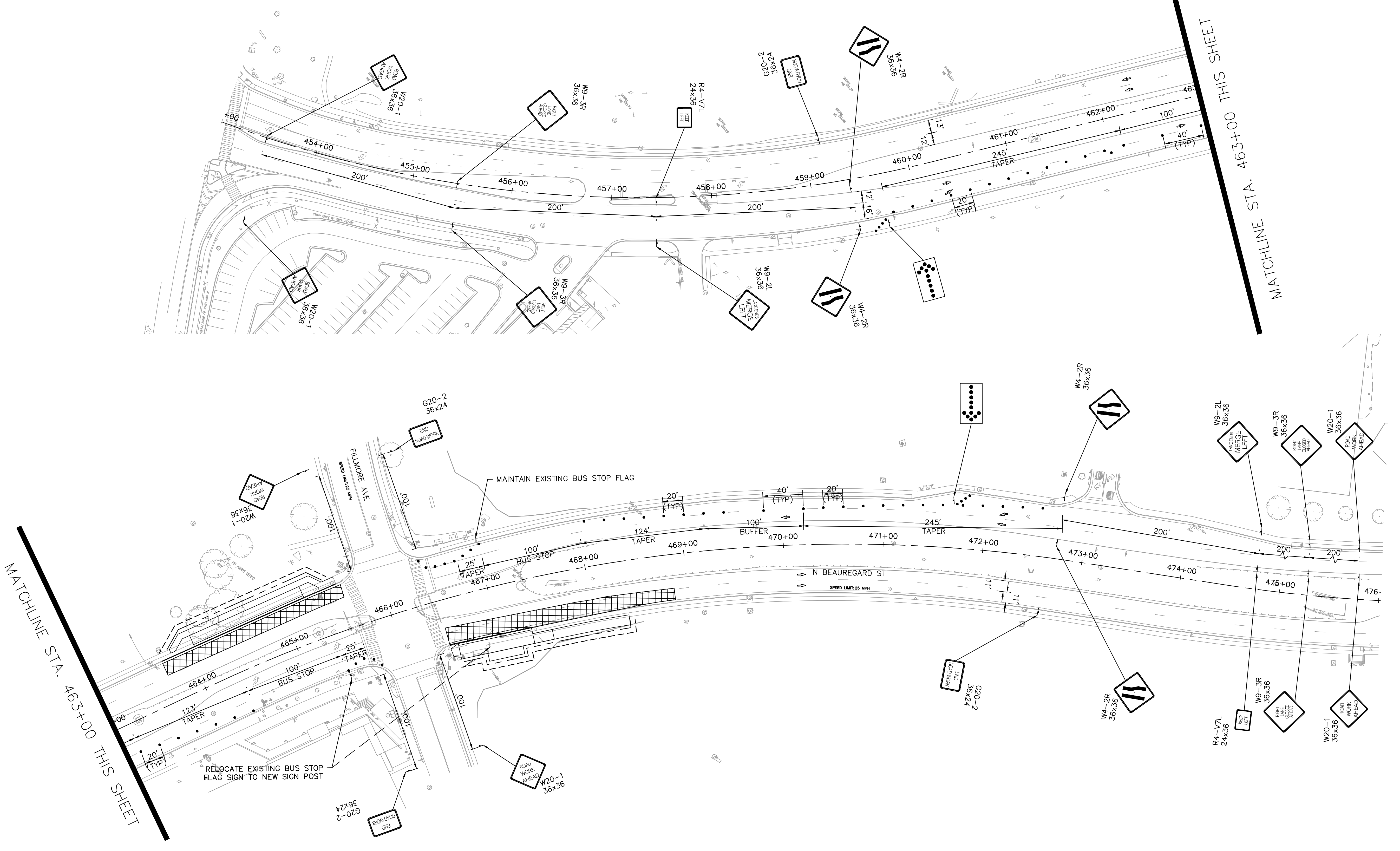
ALEXANDRIA PROJECT NO.:	110104122
DATE OF PLAN ISSUANCE:	N/A
CONSULTANT PROJECT ID.:	N/A
DESIGNED BY:	MAT. DATE: 4/5/24
DRAWN BY:	AJB. DATE: 4/5/24
CHECKED BY:	EJD. DATE: 4/5/24
APPROVED BY:	

MAINTENANCE OF TRAFFIC
PHASE 1A - BEAUREGARD ST
AT FILMORE ST

SHEET
 C-1309A
 SCALE 1" = 50'

90% DESIGN PHASE

Plotted By: Grovitt, Sydney Sheet Set: West End Transitway - Phase 1 Layout: C-114 ROADWAY PLAN May 05, 2023 03:09:34pm K:\NVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\ROADWAY PLAN.dwg



LEGEND

	WORK ZONE
	TEMPORARY TRAFFIC SIGN
	CHANNELIZING DEVICES
	GROUP 2: LONGITUDINAL CHANNELIZING DEVICES
	DIRECTION OF TRAFFIC
	EXISTING PAVEMENT MARKING
	TEMPORARY PAVEMENT MARKING
	TYPE III BARRICADE
	DIRECTIONAL ARROW BOARD

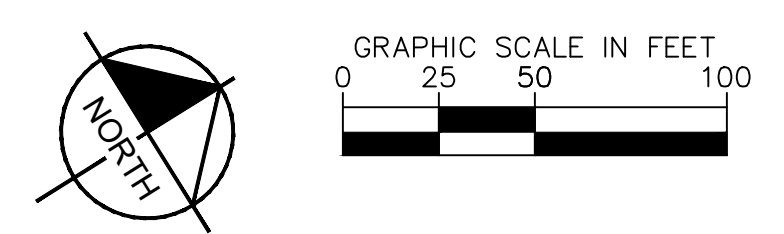
PAVEMENT MARKING LEGEND

	TYPE B, CLASS 1 WHITE 24" WIDTH
	TYPE B, CLASS 1 WHITE 12" WIDTH
	TYPE B, CLASS 1 DOUBLE YELLOW 4" WIDTH
	TYPE B, CLASS 1 WHITE 4" WIDTH
	TYPE B, CLASS 1 WHITE 8" WIDTH

- NOTES**
- CONTRACTOR TO MAINTAIN LOCAL ACCESS AT ALL TIMES
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 - TEMPORARILY CLOSE BUS STOP. COORDINATE WITH DASH TO REDIRECT RIDERS OF ROUTE 31 TO THE STOP AT BEAUREGARD ST AND BRANCH AVE. COORDINATE WITH WMATA TO REDIRECT RIDERS TO OF ROUTE 7A TO THE STOP AT BEAUREGARD ST AND BRANCH AVE.
 - THE CONTRACTOR MUST KEEP LANE OPEN DURING THE PEAK HOURS.

- PROPOSED IMPROVEMENTS**
- CONCRETE BUS PAD FROM STA. 463+70.98 TO STA. 465+61.33 AND STA. 466+25.85 TO STA. 468+86.14
 - MILL & OVERLAY FROM STA. 463+70.98 TO STA. 465+61.33 AND STA. 466+25.85 TO STA. 468+86.14

- SEQUENCE OF CONSTRUCTION**
- PHASE 1B
 - THE CONTRACTOR SHALL SET UP PHASE 1 EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
 - INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 16.2.
 - CONSTRUCT THE CONCRETE BUS PAD AND MILL AND OVERLAY THE OUTSIDE NORTHBOUND AND SOUTHBOUND LANE OF BEAUREGARD STREET FROM STA. 463+70.98 TO STA. 465+61.33 AND STA. 466+48.37 TO STA. 468+86.14.



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

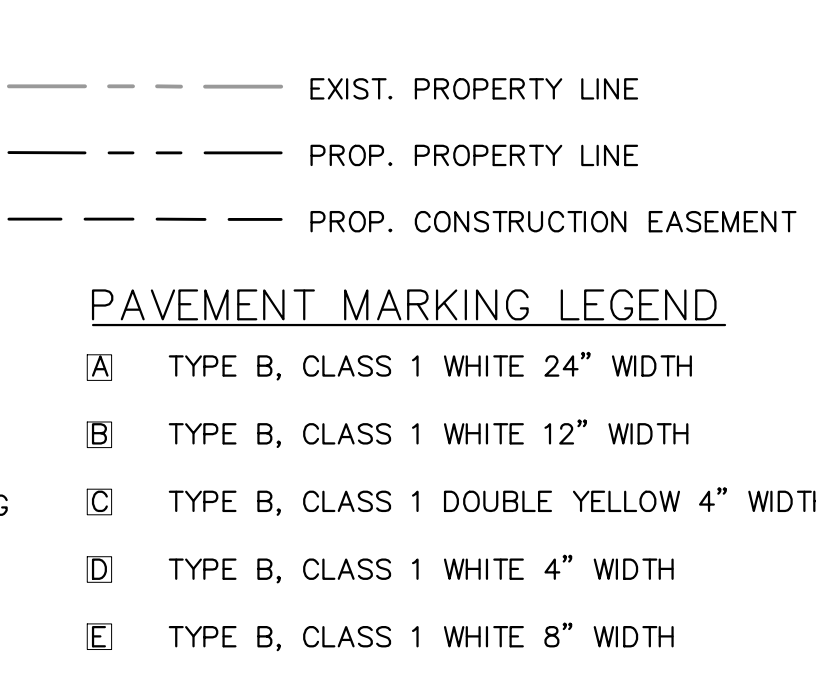
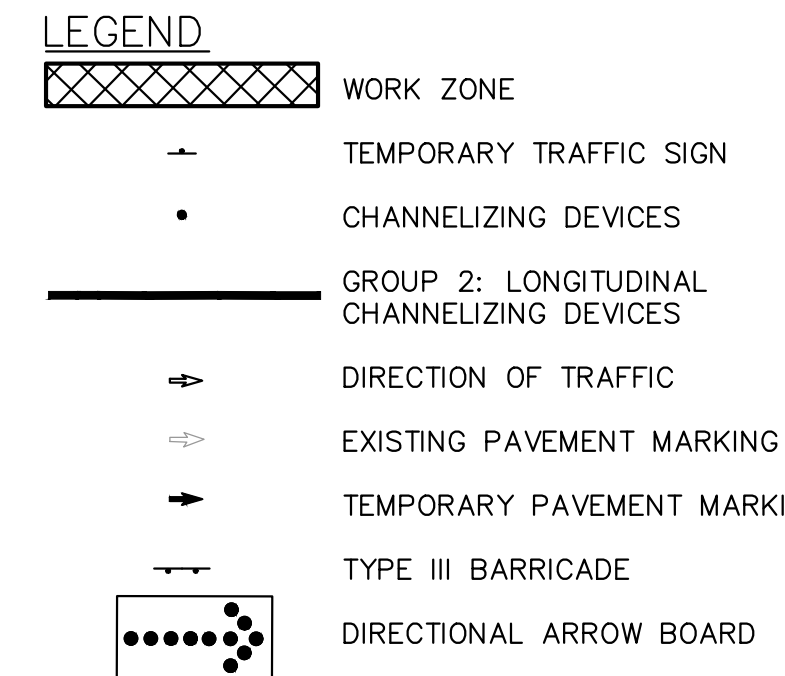
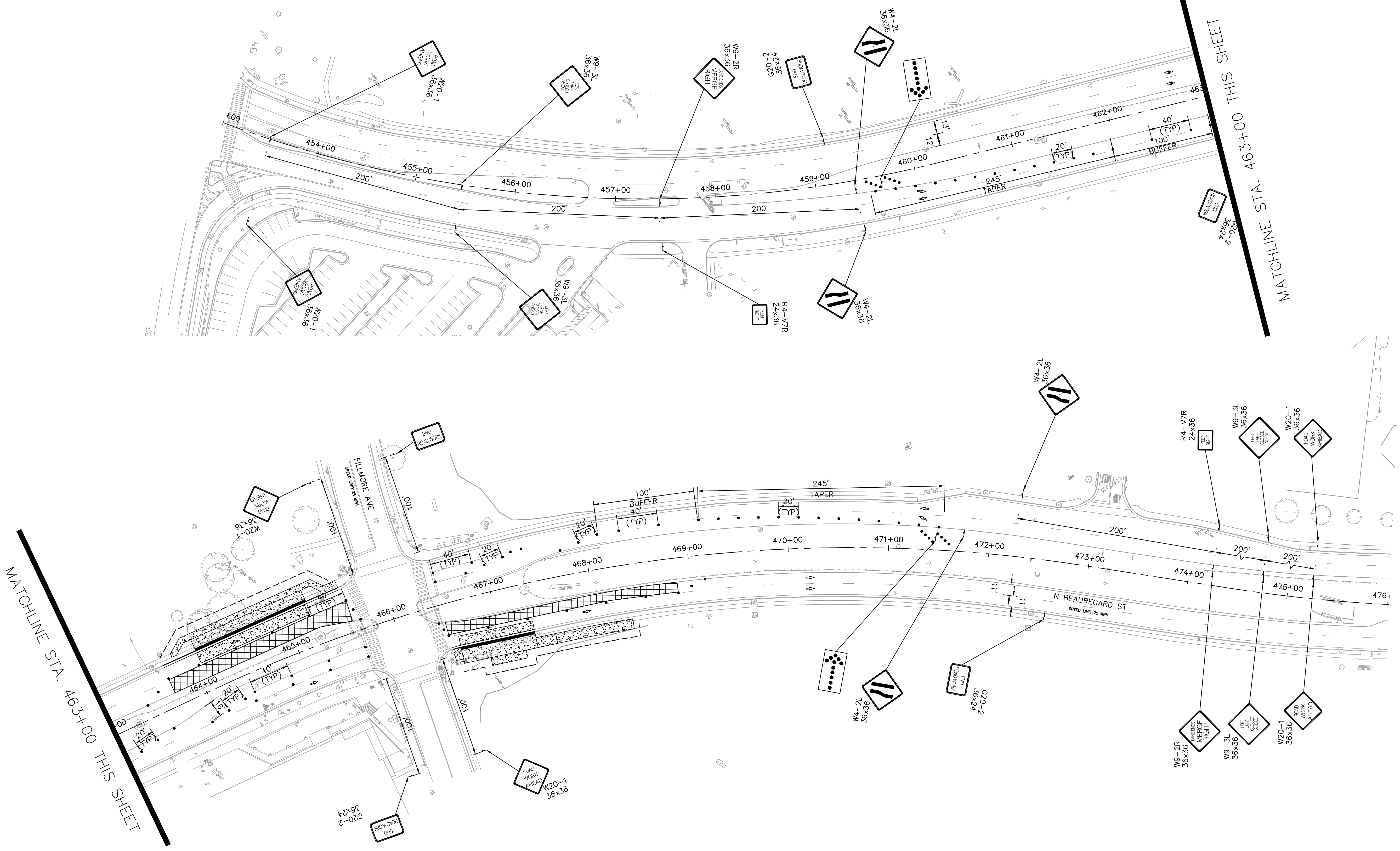
REVISIONS	DATE	DESCRIPTION

ALEXANDRIA PROJECT NO.: 110104122
 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: MAT DATE: 4/5/24
 DRAWN BY: AUB DATE: 4/5/24
 CHECKED BY: EJD DATE: 4/5/24
 APPROVED BY: _____ DATE: _____

MAINTENANCE OF TRAFFIC
PHASE 1B - BEAUREGARD ST
AT FILMORE ST

SHEET
 C-1309B
 SCALE 1" = 50'

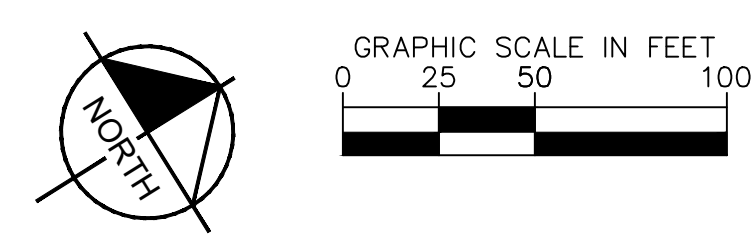
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- NOTES**
- CONTRACTOR TO MAINTAIN LOCAL ACCESS AT ALL TIMES
 - EXISTING PAVEMENT MARKINGS ARE APPROXIMATE AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO IMPLEMENTING ANY TRAFFIC CONTROL MEASURES
 - TEMPORARILY CLOSE BUS STOP. COORDINATE WITH DASH TO REDIRECT RIDERS OF ROUTE 31 TO THE STOP AT BEAUREGARD ST AND BRANCH AVE. COORDINATE WITH WMATA TO REDIRECT RIDERS TO OF ROUTE 7A TO THE STOP AT BEAUREGARD ST AND BRANCH AVE.
 - THE CONTRACTOR MUST KEEP LANE OPEN DURING THE PEAK HOURS.

- PROPOSED IMPROVEMENTS**
- MILL & OVERLAY FROM STA. 463+70.98 TO STA. 465+61.33 AND STA. 466+48.37 TO STA. 468+86.14

- SEQUENCE OF CONSTRUCTION**
- PHASE 2
 - THE CONTRACTOR SHALL SET UP PHASE 1 EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
 - INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 16.2 AND 39.2.
 - MILL AND OVERLAY THE NORTHBOUND AND SOUTHBOUND CENTER LANE OF BEAUREGARD STREET FROM STA. 463+70.98 TO STA. 465+61.33 AND STA. 466+48.37 TO STA. 468+86.14.



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

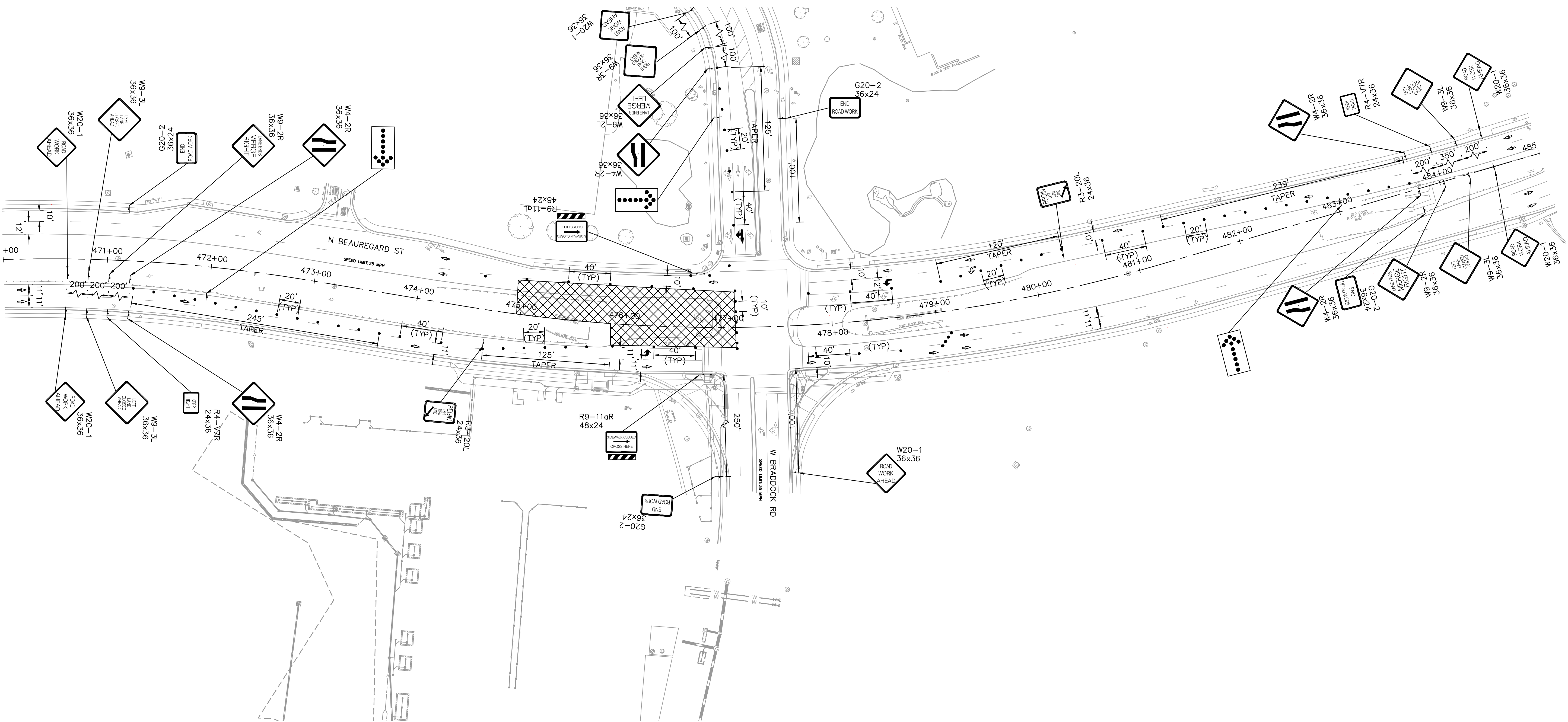
REVISIONS	DATE	DESCRIPTION

ALEXANDRIA PROJECT NO.: 110104122
 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: MAT DATE: 4/5/24
 DRAWN BY: AUB DATE: 4/5/24
 CHECKED BY: EJD DATE: 4/5/24
 APPROVED BY: _____ DATE: _____

MAINTENANCE OF TRAFFIC
PHASE 2 - BEAUREGARD ST
AT FILMORE ST

SHEET
 C-1309C
 SCALE 1" = 50'

Plotted By: Zegarrro, Santiago Sheet Set: West End Transitway - Phase 1 Layout: C-1313 MOT PHASE 1a September 20, 2023 11:08:43am K:\NVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\MOT_BEAU AND BRADDOCK_Ph1a.dwg



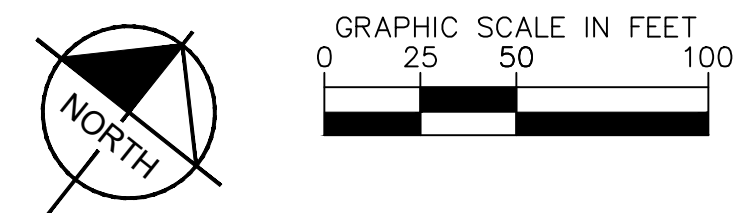
LEGEND

	WORK ZONE		EXIST. PROPERTY LINE
	TEMPORARY TRAFFIC SIGN		PROP. PROPERTY LINE
	CHANNELIZING DEVICES		PROP. CONSTRUCTION EASEMENT
	GROUP 2: LONGITUDINAL CHANNELIZING DEVICES		
	DIRECTION OF TRAFFIC	PAVEMENT MARKING LEGEND	
	EXISTING PAVEMENT MARKING		TYPE B, CLASS 1 WHITE 24" WIDTH
	TEMPORARY PAVEMENT MARKING		TYPE B, CLASS 1 WHITE 12" WIDTH
	TYPE III BARRICADE		TYPE B, CLASS 1 DOUBLE YELLOW 4" WIDTH
	DIRECTIONAL ARROW BOARD		TYPE B, CLASS 1 WHITE 4" WIDTH
			TYPE B, CLASS 1 WHITE 8" WIDTH

- NOTES**
- CONTRACTOR TO MAINTAIN LOCAL ACCESS AT ALL TIMES
 - EXISTING PAVEMENT MARKINGS ARE APPROXIMATE AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO IMPLEMENTING ANY TRAFFIC CONTROL MEASURES
 - TEMPORARILY CLOSE BUS STOP. COORDINATE WITH DASH TO REDIRECT RIDERS OF ROUTE 31 TO THE STOP AT BEAUREGARD ST AND BRANCH AVE. COORDINATE WITH WMATA TO REDIRECT RIDERS TO OF ROUTE 7A TO THE STOP AT BEAUREGARD ST AND BRANCH AVE.
 - THE CONTRACTOR MUST KEEP LANE OPEN DURING THE PEAK HOURS.

- PROPOSED IMPROVEMENTS**
- MEDIAN FROM STA. 474+96.48 TO STA. 477+07.13
 - MILL & OVERLAY FROM STA. 474+96.48 TO STA. 477+07.13

- SEQUENCE OF CONSTRUCTION**
- PHASE 1A
 - THE CONTRACTOR SHALL SET UP PHASE 1 EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
 - INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 17.2 AND 35.1.
 - CONSTRUCT THE MEDIAN ON THE SOUTH SIDE OF THE OF BEAUREGARD STREET AND MILL AND OVERLAY THE NORTHBOUND LEFT TURN LANE AND THE SOUTHBOUND INSIDE LANE FROM STA. 474+96.48 TO STA. 477+07.13.



WEST END TRANSITWAY – PHASE 1 IMPROVEMENTS

**MAINTENANCE OF TRAFFIC
PHASE 1A – BEAUREGARD ST
AT BRADDOCK**

90% DESIGN PHASE

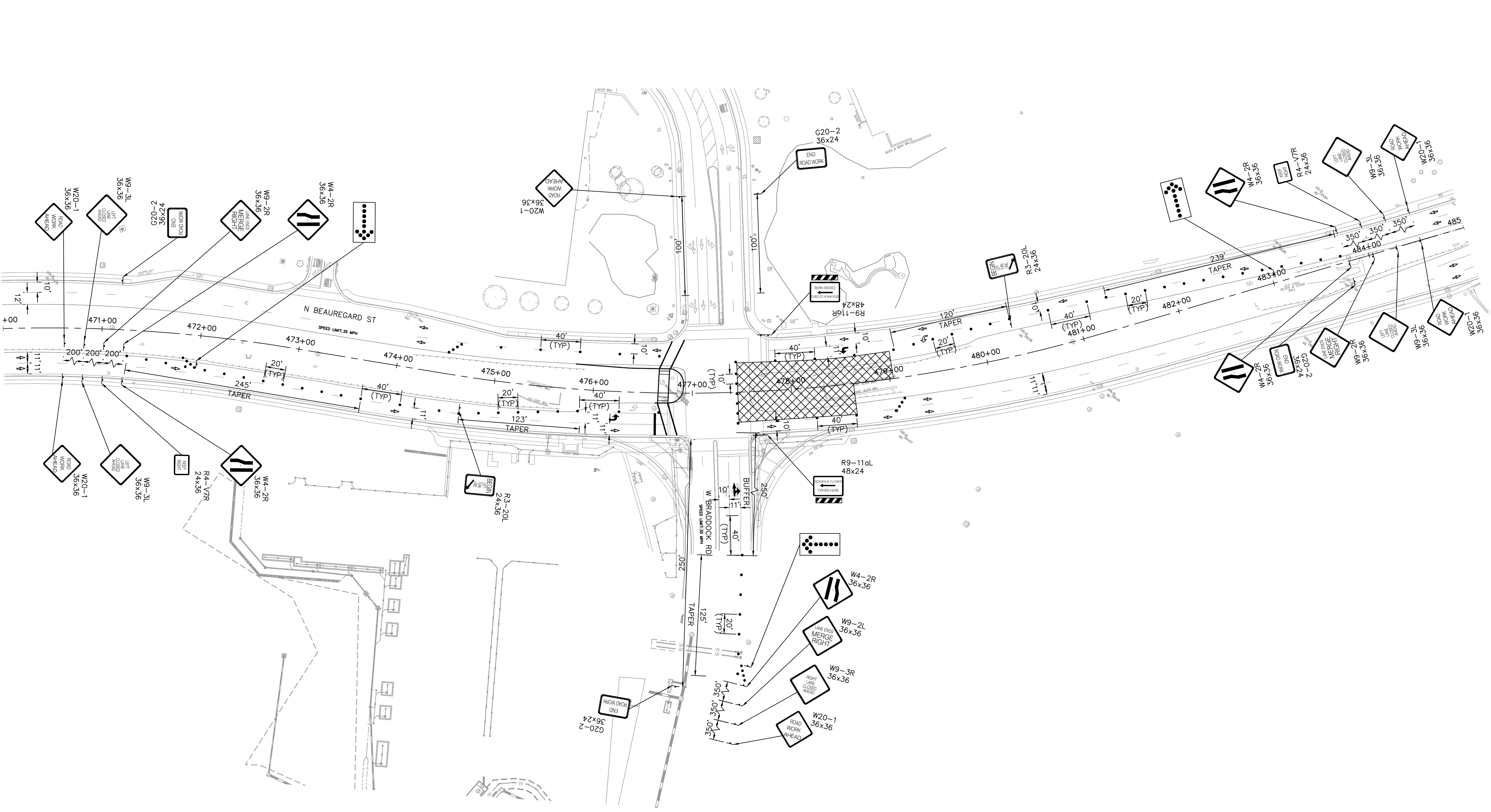
CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

REVISONS	DATE	DESCRIPTION

ALEXANDRIA PROJECT NO.: 110104122	DATE OF PLAN ISSUANCE: N/A	CONSULTANT PROJECT ID: N/A
DESIGNED BY: [Signature]	MAT. DATE: 4/5/24	DRAWN BY: [Signature]
CHECKED BY: [Signature]	EJD. DATE: 4/5/24	APPROVED BY: [Signature]

SHEET
C-1310A
SCALE 1" = 50'

Plotted By: Grovitt, Sydney Sheet Set: West End Transitway - Phase 1 Layout: C-114 ROADWAY PLAN May 05, 2023 03:09:34pm K:\NVA_Transit\10104122_West_End_Transitway_Design\CADD\PlanSheets\ROADWAY PLAN.dwg



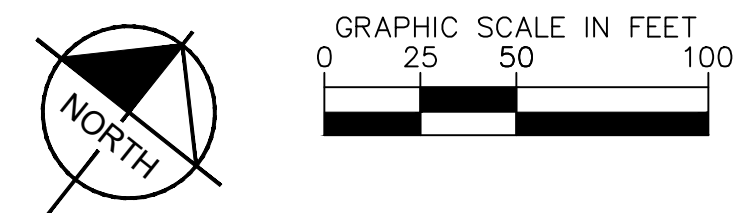
LEGEND

	WORK ZONE		EXIST. PROPERTY LINE
	TEMPORARY TRAFFIC SIGN		PROP. PROPERTY LINE
	CHANNELIZING DEVICES		PROP. CONSTRUCTION EASEMENT
	GROUP 2: LONGITUDINAL CHANNELIZING DEVICES	PAVEMENT MARKING LEGEND	
	DIRECTION OF TRAFFIC		TYPE B, CLASS 1 WHITE 24" WIDTH
	EXISTING PAVEMENT MARKING		TYPE B, CLASS 1 WHITE 12" WIDTH
	TEMPORARY PAVEMENT MARKING		TYPE B, CLASS 1 DOUBLE YELLOW 4" WIDTH
	TYPE III BARRICADE		TYPE B, CLASS 1 WHITE 4" WIDTH
	DIRECTIONAL ARROW BOARD		TYPE B, CLASS 1 WHITE 8" WIDTH

- NOTES**
- CONTRACTOR TO MAINTAIN LOCAL ACCESS AT ALL TIMES
 - EXISTING PAVEMENT MARKINGS ARE APPROXIMATE AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO IMPLEMENTING ANY TRAFFIC CONTROL MEASURES
 - TEMPORARILY CLOSE BUS STOP. COORDINATE WITH DASH TO REDIRECT RIDERS OF ROUTE 31 TO THE STOP AT BEAUREGARD ST AND BRANCH AVE. COORDINATE WITH WMATA TO REDIRECT RIDERS TO OF ROUTE 7A TO THE STOP AT BEAUREGARD ST AND BRANCH AVE.
 - THE CONTRACTOR MUST KEEP LANE OPEN DURING THE PEAK HOURS.

- PROPOSED IMPROVEMENTS**
- MEDIAN FROM STA. 477+45.98 TO STA. 479+03.81
 - MILL & OVERLAY FROM STA. 477+45.98 TO STA. 479+03.81

- SEQUENCE OF CONSTRUCTION**
- PHASE 1B
 - THE CONTRACTOR SHALL SET UP PHASE 1 EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
 - INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 17.2 AND 35.1.
 - CONSTRUCT THE MEDIAN ON THE NORTH SIDE OF BEAUREGARD STREET AND MILL AND OVERLAY THE SOUTHBOUND LEFT TURN LANE AND THE NORTHBOUND INSIDE LANE FROM STA. 477+45.98 TO STA. 479+03.81.



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS
90% DESIGN PHASE



CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

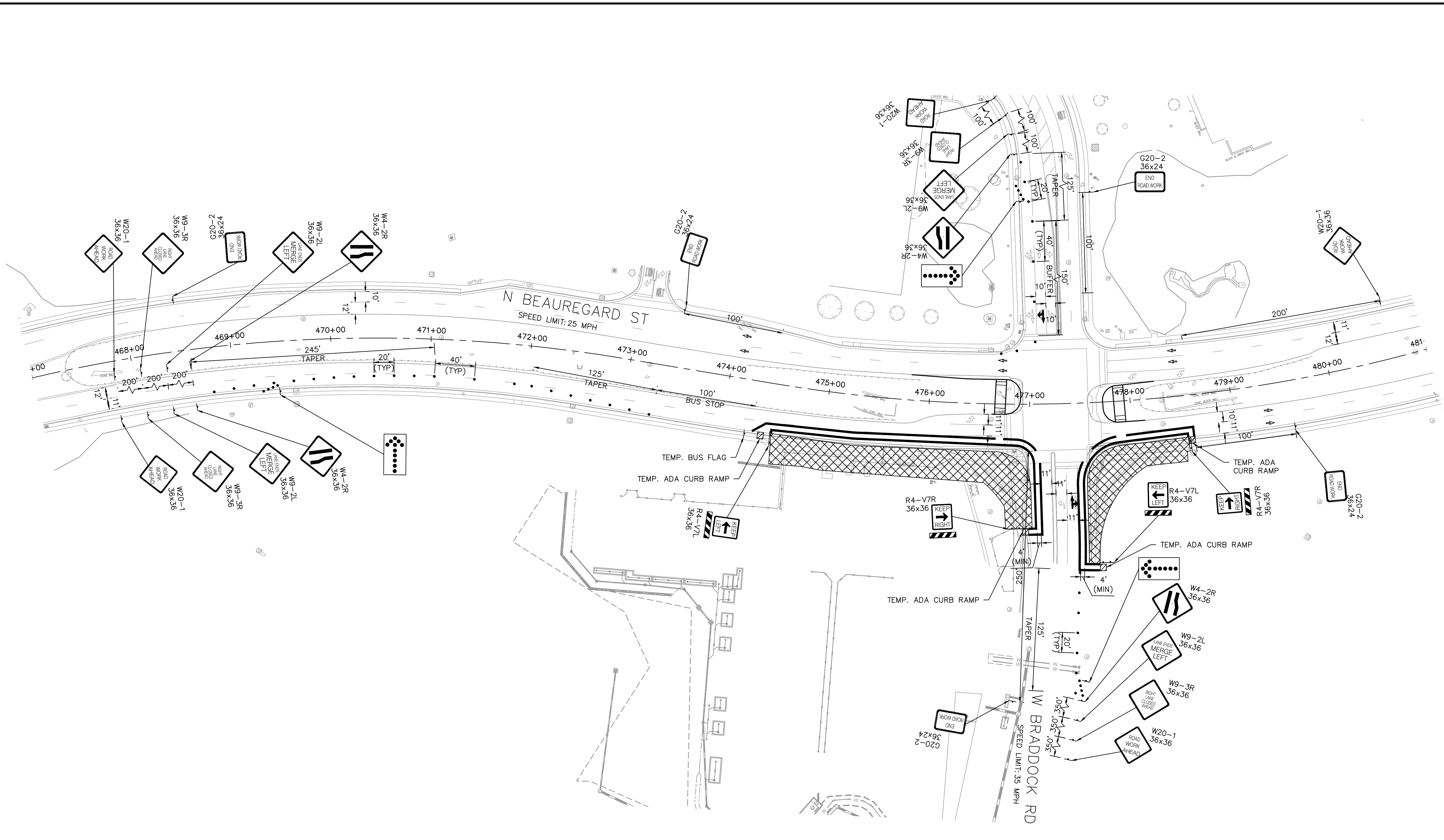
REVISIONS	DESCRIPTION
DATE	BY

ALEXANDRIA PROJECT NO.:	110104122
DATE OF PLAN ISSUANCE:	N/A
CONSULTANT PROJECT ID.:	N/A
DESIGNED BY:	MAT. DATE: 4/5/24
DRAWN BY:	AJB. DATE: 4/5/24
CHECKED BY:	EJD. DATE: 4/5/24
APPROVED BY:	DATE:

MAINTENANCE OF TRAFFIC
PHASE 1B - BEAUREGARD ST
AT BRADDOCK

SHEET
 C-1310B
 SCALE 1" = 50'

Plotted By: Sadr, Nesima Sheet: Sect: West End Transitway - Phase 1 Layout: C-1313 MOT PHASE 3a July 09, 2024 12:57:33pm K:\NVA_Transit\110104122\West End Transitway Design\CADD\PlanSheets\MOT BEAU AND BRADDOCK PH3a.dwg



LEGEND

	WORK ZONE
	TEMPORARY TRAFFIC SIGN
	CHANNELIZING DEVICES
	GROUP 2: LONGITUDINAL CHANNELIZING DEVICES
	DIRECTION OF TRAFFIC
	EXISTING PAVEMENT MARKING
	TEMPORARY PAVEMENT MARKING
	TYPE III BARRICADE
	DIRECTIONAL ARROW BOARD

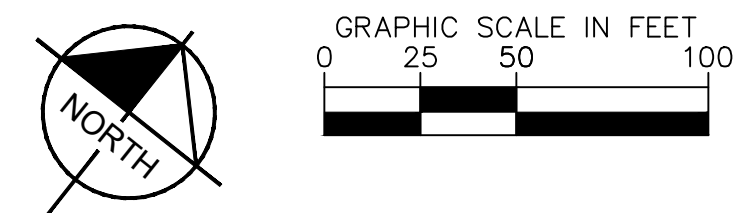
PAVEMENT MARKING LEGEND

	EXIST. PROPERTY LINE
	PROP. PROPERTY LINE
	PROP. CONSTRUCTION EASEMENT
	TYPE B, CLASS 1 WHITE 24" WIDTH
	TYPE B, CLASS 1 WHITE 12" WIDTH
	TYPE B, CLASS 1 DOUBLE YELLOW 4" WIDTH
	TYPE B, CLASS 1 WHITE 4" WIDTH
	TYPE B, CLASS 1 WHITE 8" WIDTH

- NOTES**
- CONTRACTOR TO MAINTAIN LOCAL ACCESS AT ALL TIMES
 - EXISTING PAVEMENT MARKINGS ARE APPROXIMATE AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO IMPLEMENTING ANY TRAFFIC CONTROL MEASURES
 - TEMPORARILY CLOSE BUS STOP. COORDINATE WITH DASH TO REDIRECT RIDERS OF ROUTE 31 TO THE STOP AT BEAUREGARD ST AND BRANCH AVE. COORDINATE WITH WMATA TO REDIRECT RIDERS TO OF ROUTE 7A TO THE STOP AT BEAUREGARD ST AND BRANCH AVE.
 - THE CONTRACTOR MUST KEEP LANE OPEN DURING THE PEAK HOURS.

- PROPOSED IMPROVEMENTS**
- | | |
|--------------------|--|
| 1. SIDEWALK | FROM STA. 474+49.46 TO STA. 477+01.73 AND STA. 477+52.88 TO STA. 478+53.77 |
| 2. PLATFORM | FROM STA. 474+49.46 TO STA. 477+01.73 AND STA. 477+52.88 TO STA. 478+53.77 |
| 3. CURB AND GUTTER | FROM STA. 474+49.46 TO STA. 477+01.73 AND STA. 477+52.88 TO STA. 478+53.77 |
| 4. CURB RAMPS | FROM STA. 474+49.46 TO STA. 477+01.73 AND STA. 477+52.88 TO STA. 478+53.77 |

- SEQUENCE OF CONSTRUCTION**
- PHASE 2A
 - THE CONTRACTOR SHALL SET UP PHASE 1 EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
 - INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 16.2 AND 35.1.
 - CONSTRUCT THE SIDEWALK, PLATFORM, CURB RAMPS, AND CURB AND GUTTER FOR THE NORTHBOUND BUS STATION ON BEAUREGARD STREET FROM STA. 474+49.46 TO STA. 477+01.73 AND STA. 477+52.88 TO STA. 478+53.77.



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

**MAINTENANCE OF TRAFFIC
PHASE 2A - BEAUREGARD ST
AT BRADDOCK**

90% DESIGN PHASE

CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

REVISIONS	DESCRIPTION

ALEXANDRIA PROJECT NO.: 110104122	DATE OF PLAN ISSUANCE: N/A
CONSULTANT PROJECT ID: N/A	DESIGNED BY: MAT DATE: 7/9/24
DRAWN BY: AUB DATE: 7/9/24	CHECKED BY: EJD DATE: 7/9/24
APPROVED BY: _____ DATE: _____	

SHEET C-1310C

SCALE 1" = 50'

Plotted By: Grovitt, Sydney Sheet Set: West End Transitway - Phase 1 Layout: C-114 ROADWAY PLAN May 05, 2023 03:09:34pm K:\NVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\ROADWAY PLAN.dwg

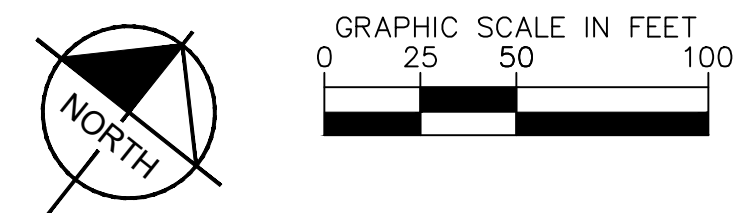
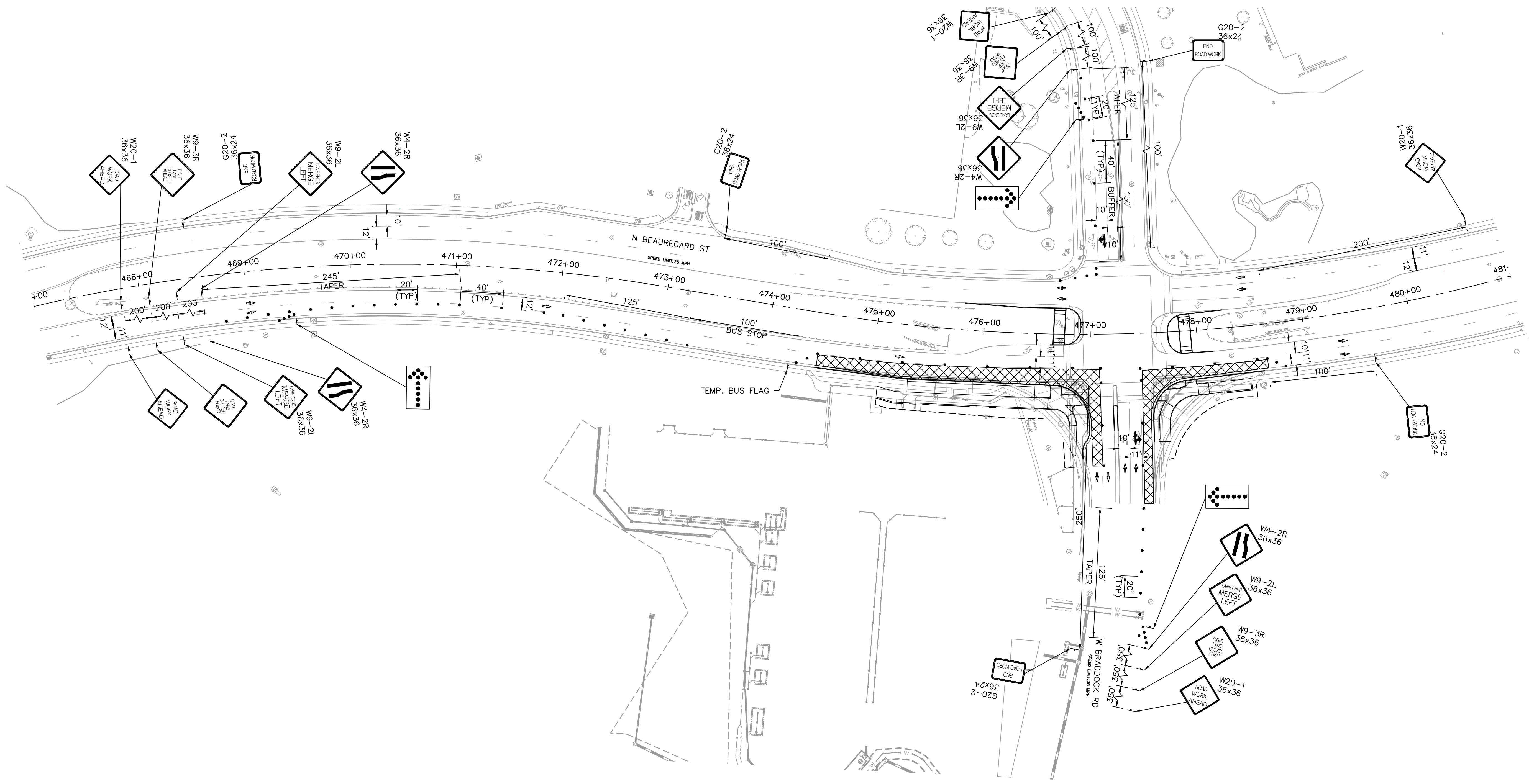
LEGEND

	WORK ZONE		EXIST. PROPERTY LINE
	TEMPORARY TRAFFIC SIGN		PROP. PROPERTY LINE
	CHANNELIZING DEVICES		PROP. CONSTRUCTION EASEMENT
	GROUP 2: LONGITUDINAL CHANNELIZING DEVICES	PAVEMENT MARKING LEGEND	
	DIRECTION OF TRAFFIC		TYPE B, CLASS 1 WHITE 24" WIDTH
	EXISTING PAVEMENT MARKING		TYPE B, CLASS 1 WHITE 12" WIDTH
	TEMPORARY PAVEMENT MARKING		TYPE B, CLASS 1 DOUBLE YELLOW 4" WIDTH
	TYPE III BARRICADE		TYPE B, CLASS 1 WHITE 4" WIDTH
	DIRECTIONAL ARROW BOARD		TYPE B, CLASS 1 WHITE 8" WIDTH

- NOTES**
- CONTRACTOR TO MAINTAIN LOCAL ACCESS AT ALL TIMES
 - EXISTING PAVEMENT MARKINGS ARE APPROXIMATE AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO IMPLEMENTING ANY TRAFFIC CONTROL MEASURES
 - TEMPORARILY CLOSE BUS STOP. COORDINATE WITH DASH TO REDIRECT RIDERS OF ROUTE 31 TO THE STOP AT BEAUREGARD ST AND BRADDOCK AVE. COORDINATE WITH WMATA TO REDIRECT RIDERS TO OF ROUTE 7A TO THE STOP AT BEAUREGARD ST AND BRADDOCK RD.
 - THE CONTRACTOR MUST KEEP LANE OPEN DURING THE PEAK HOURS.

- PROPOSED IMPROVEMENTS**
- CONCRETE BUS PAD FROM STA. 474+49.46 TO STA. 477+10.43 AND STA. 477+47.65 TO STA. 478+63.57
 - MILL & OVERLAY FROM STA. 474+49.46 TO STA. 477+10.43 AND STA. 477+47.65 TO STA. 478+63.57

- SEQUENCE OF CONSTRUCTION**
- PHASE 2B
 - THE CONTRACTOR SHALL SET UP PHASE 1 EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
 - INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 16.2. CONSTRUCT THE CONCRETE BUS PAD FOR THE NORTHBOUND BUS STATION ON BEAUREGARD STREET AND MILL AND OVERLAY THE NORTHBOUND OUTSIDE LANE ON BEAUREGARD STREET, AND THE OUTSIDE WESTBOUND LANE ON BRADDOCK ROAD FROM STA. 474+49.46 TO STA. 477+10.43 AND STA. 477+47.65 TO STA. 478+63.57.



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

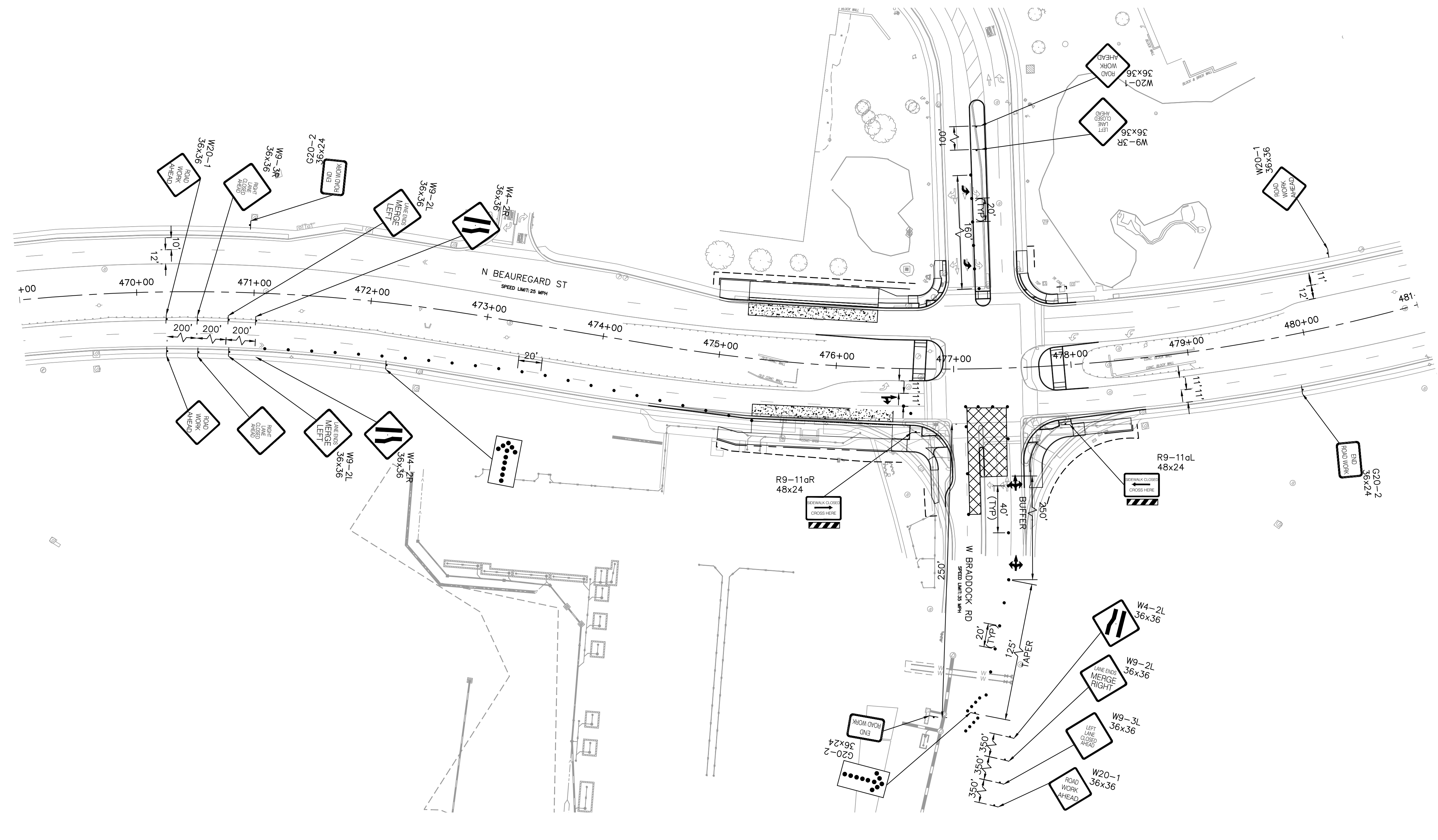
REVISIONS	DATE	DESCRIPTION

ALEXANDRIA PROJECT NO.:	110104122
DATE OF PLAN ISSUANCE:	N/A
CONSULTANT PROJECT ID.:	N/A
DESIGNED BY:	DATE: 4/5/24
DRAWN BY:	DATE: 4/5/24
CHECKED BY:	DATE: 4/5/24
APPROVED BY:	DATE:

MAINTENANCE OF TRAFFIC
PHASE 2B - BEAUREGARD ST
AT BRADDOCK

SHEET
 C-1310D
 SCALE 1" = 50'

Plotted By: Grovitt, Sydney Sheet Set: West End Transitway - Phase 1 Layout: C-114 ROADWAY PLAN May 05, 2023 03:09:34pm K:\NVA_Transist\10104122_West End Transitway Design\CADD\PlanSheets\ROADWAY PLAN.dwg



LEGEND

	WORK ZONE
	TEMPORARY TRAFFIC SIGN
	CHANNELIZING DEVICES
	GROUP 2: LONGITUDINAL CHANNELIZING DEVICES
	DIRECTION OF TRAFFIC
	EXISTING PAVEMENT MARKING
	TEMPORARY PAVEMENT MARKING
	TYPE III BARRICADE
	DIRECTIONAL ARROW BOARD

	EXIST. PROPERTY LINE
	PROP. PROPERTY LINE
	PROP. CONSTRUCTION EASEMENT

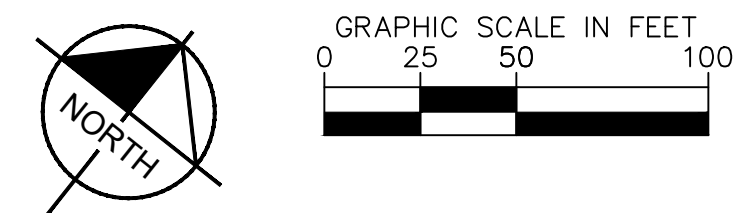
PAVEMENT MARKING LEGEND

	TYPE B, CLASS 1 WHITE 24" WIDTH
	TYPE B, CLASS 1 WHITE 12" WIDTH
	TYPE B, CLASS 1 DOUBLE YELLOW 4" WIDTH
	TYPE B, CLASS 1 WHITE 4" WIDTH
	TYPE B, CLASS 1 WHITE 8" WIDTH

- NOTES**
- CONTRACTOR TO MAINTAIN LOCAL ACCESS AT ALL TIMES
 - EXISTING PAVEMENT MARKINGS ARE APPROXIMATE AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO IMPLEMENTING ANY TRAFFIC CONTROL MEASURES
 - TEMPORARILY CLOSE BUS STOP. COORDINATE WITH DASH TO REDIRECT RIDERS OF ROUTE 31 TO THE STOP AT BEAUREGARD ST AND BRANCH AVE. COORDINATE WITH WMATA TO REDIRECT RIDERS TO OF ROUTE 7A TO THE STOP AT BEAUREGARD ST AND BRANCH AVE.
 - THE CONTRACTOR MUST KEEP LANE OPEN DURING THE PEAK HOURS.

- PROPOSED IMPROVEMENTS**
- MEDIAN FROM STA. 477+10.88 TO STA. 477+43.71
 - MILL & OVERLAY FROM STA. 477+10.88 TO STA. 477+43.71

- SEQUENCE OF CONSTRUCTION**
- PHASE 2C
 - THE CONTRACTOR SHALL SET UP PHASE 1 EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
 - INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 17.2 AND 35.1.
 - CONSTRUCT THE MEDIAN ON THE EAST SIDE OF THE OF BRADDOCK ROAD AND MILL AND OVERLAY THE EASTBOUND AND WESTBOUND INSIDE LANE FROM STA. 477+10.88 TO STA. 477+43.71.



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

MAINTENANCE OF TRAFFIC
PHASE 2C - BEAUREGARD ST
AT BRADDOCK

90% DESIGN PHASE

CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

REVISIONS	DESCRIPTION

ALEXANDRIA PROJECT NO.: 110104122	DATE OF PLAN ISSUANCE: N/A
CONSULTANT PROJECT ID: N/A	DESIGNED BY: MAT. DATE: 4/5/24
DRAWN BY: AUB. DATE: 4/5/24	CHECKED BY: EJD. DATE: 4/5/24
APPROVED BY: _____	DATE: _____

SHEET
C-1310E
SCALE 1" = 50'

Plotted By: Grovitt, Sydney Sheet Set: West End Transitway - Phase 1 Layout: C-114 ROADWAY PLAN May 05, 2023 03:09:34pm K:\NVA_Transit\110104122_West_End_Transitway_Design\CADD\PlanSheets\ROADWAY_PLAN.dwg

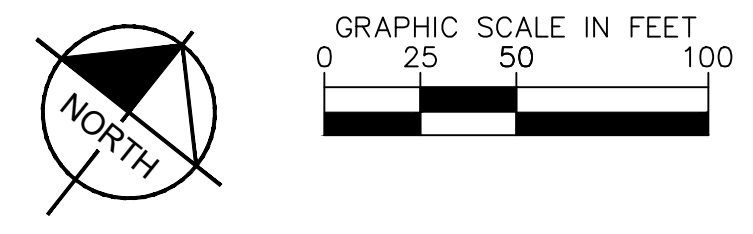
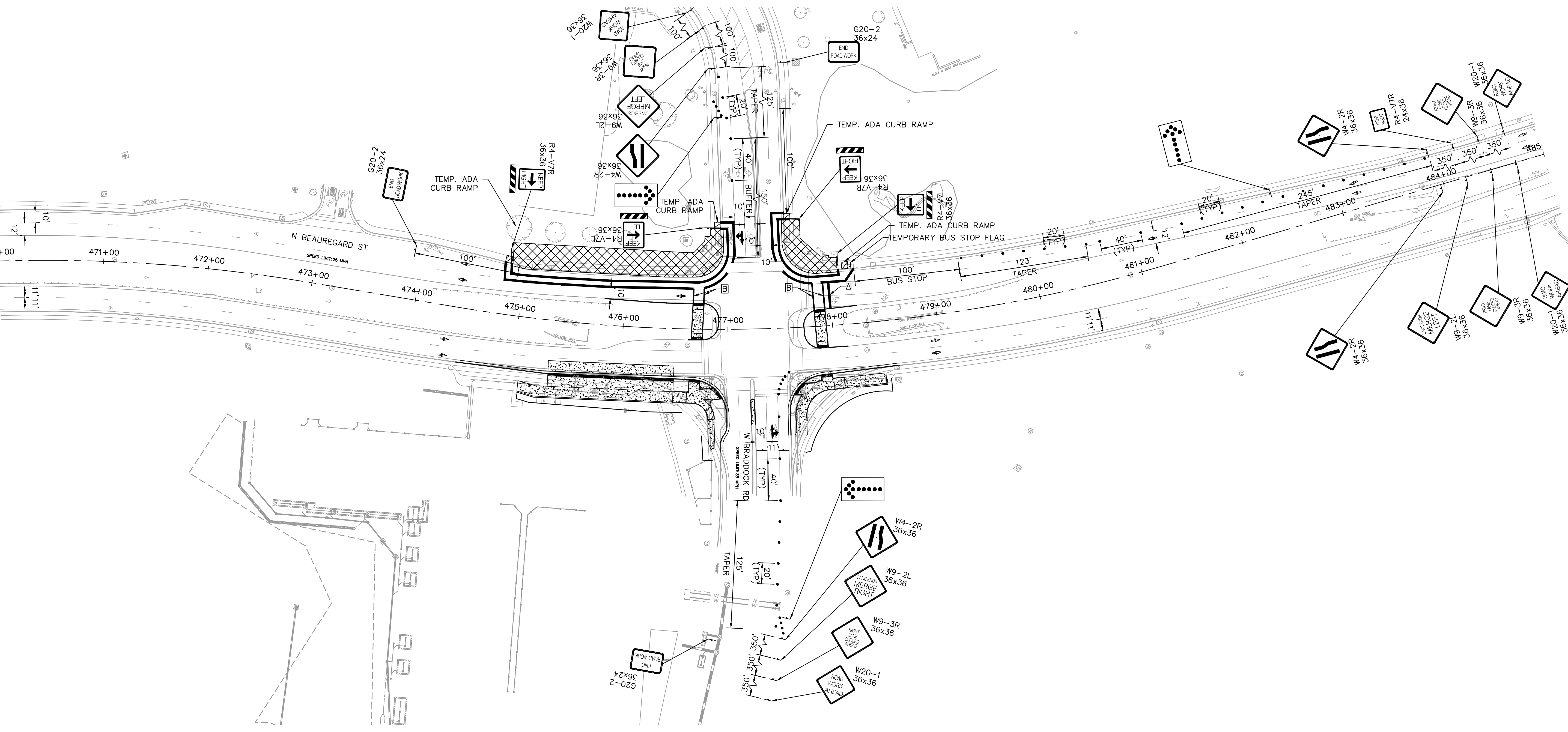
LEGEND

	WORK ZONE		EXIST. PROPERTY LINE
	TEMPORARY TRAFFIC SIGN		PROP. PROPERTY LINE
	CHANNELIZING DEVICES		PROP. CONSTRUCTION EASEMENT
	GROUP 2: LONGITUDINAL CHANNELIZING DEVICES	PAVEMENT MARKING LEGEND	
	DIRECTION OF TRAFFIC		TYPE B, CLASS 1 WHITE 24" WIDTH
	EXISTING PAVEMENT MARKING		TYPE B, CLASS 1 WHITE 12" WIDTH
	TEMPORARY PAVEMENT MARKING		TYPE B, CLASS 1 DOUBLE YELLOW 4" WIDTH
	TYPE III BARRICADE		TYPE B, CLASS 1 WHITE 4" WIDTH
	DIRECTIONAL ARROW BOARD		TYPE B, CLASS 1 WHITE 8" WIDTH

- NOTES**
- CONTRACTOR TO MAINTAIN LOCAL ACCESS AT ALL TIMES
 - EXISTING PAVEMENT MARKINGS ARE APPROXIMATE AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO IMPLEMENTING ANY TRAFFIC CONTROL MEASURES
 - TEMPORARILY CLOSE BUS STOP. COORDINATE WITH DASH TO REDIRECT RIDERS OF ROUTE 31 TO THE STOP AT BEAUREGARD ST AND BRANCH AVE. COORDINATE WITH WMATA TO REDIRECT RIDERS TO OF ROUTE 7A TO THE STOP AT BEAUREGARD ST AND BRANCH AVE.
 - THE CONTRACTOR MUST KEEP LANE OPEN DURING THE PEAK HOURS.

- PROPOSED IMPROVEMENTS**
- SIDEWALK FROM STA. 476+95.54 AND STA. 477+52.27 TO STA. 478+08.31
 - PLATFORM FROM STA. 476+95.54 AND STA. 477+52.27 TO STA. 478+08.31
 - CURB AND GUTTER STA. 476+95.54 AND STA. 477+52.27 TO STA. 478+08.31
 - CURB RAMPS FROM STA. 476+95.54 AND STA. 477+52.27 TO STA. 478+08.31

- SEQUENCE OF CONSTRUCTION**
- PHASE 3A
 - THE CONTRACTOR SHALL SET UP PHASE 1 EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
 - INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 16.2 AND 35.1.
 - CONSTRUCT THE SIDEWALK, PLATFORM, CURB RAMPS, AND CURB AND GUTTER FOR THE SOUTHBOUND BUS STATION ON BEAUREGARD STREET FROM STA. 474+87.77 TO STA. 476+95.54 AND STA. 477+52.27 TO STA. 478+08.31.



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

REVISIONS	DATE	DESCRIPTION

ALEXANDRIA PROJECT NO.: 110104122
 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: VALUE DATE: 4/5/24
 DRAWN BY: SJC DATE: 4/5/24
 CHECKED BY: _____ DATE: 4/5/24
 APPROVED BY: _____ DATE: _____

MAINTENANCE OF TRAFFIC
PHASE 3A - BEAUREGARD ST
AT BRADDOCK

SHEET
 C-1310F
 SCALE 1" = 50'

Plotted By: Grovitt, Sydney Sheet Set: West End Transitway - Phase 1 Layout: C-114 ROADWAY PLAN May 05, 2023 03:09:34pm K:\NVA_Transit\110104122_West_End_Transitway_Design\CADD\PlanSheets\ROADWAY_PLAN.dwg

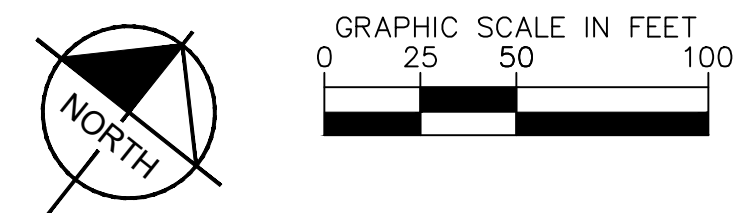
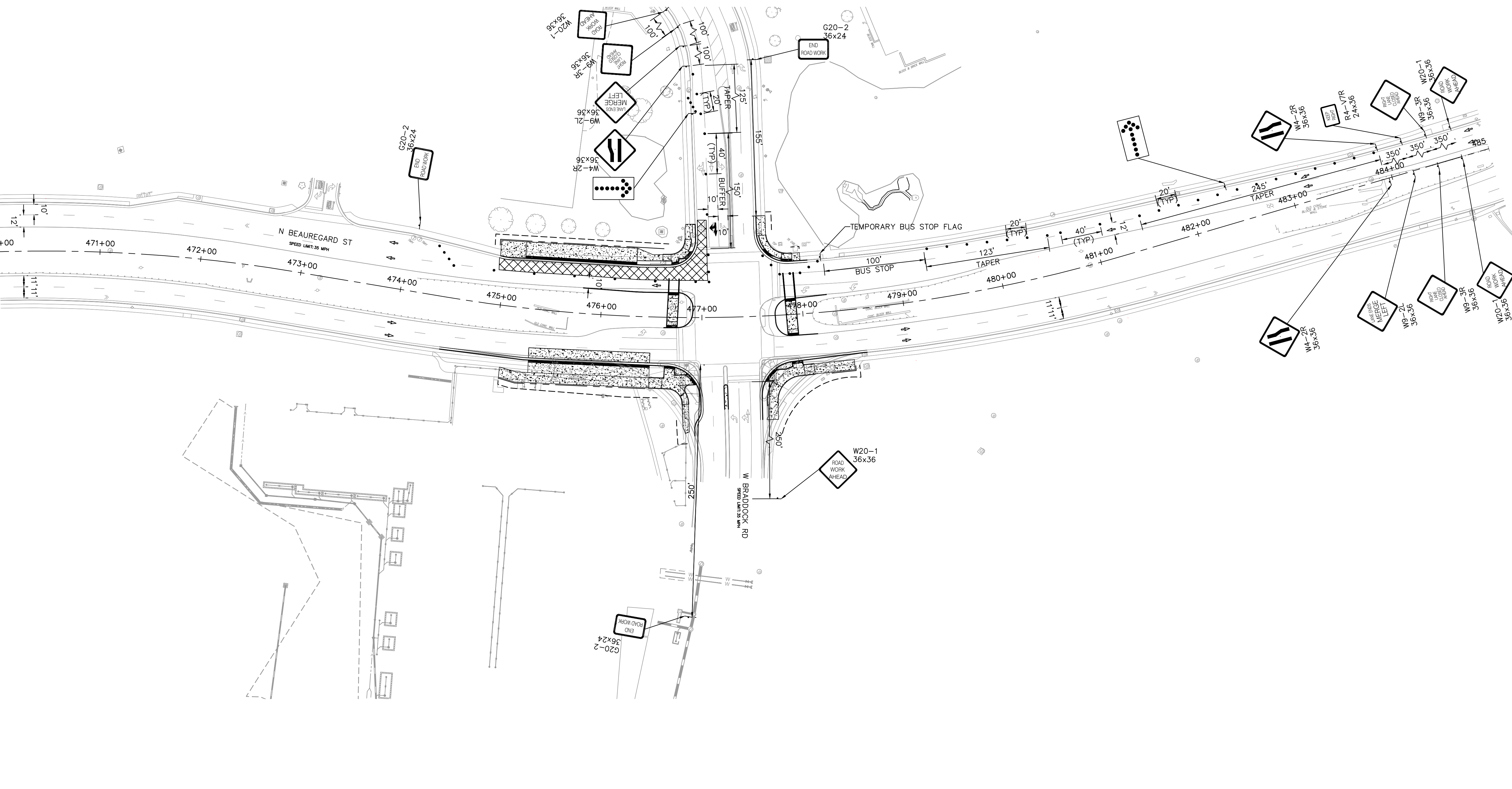
LEGEND

	WORK ZONE		EXIST. PROPERTY LINE
	TEMPORARY TRAFFIC SIGN		PROP. PROPERTY LINE
	CHANNELIZING DEVICES		PROP. CONSTRUCTION EASEMENT
	GROUP 2: LONGITUDINAL CHANNELIZING DEVICES	PAVEMENT MARKING LEGEND	
	DIRECTION OF TRAFFIC		TYPE B, CLASS 1 WHITE 24" WIDTH
	EXISTING PAVEMENT MARKING		TYPE B, CLASS 1 WHITE 12" WIDTH
	TEMPORARY PAVEMENT MARKING		TYPE B, CLASS 1 DOUBLE YELLOW 4" WIDTH
	TYPE III BARRICADE		TYPE B, CLASS 1 WHITE 4" WIDTH
	DIRECTIONAL ARROW BOARD		TYPE B, CLASS 1 WHITE 8" WIDTH

- NOTES**
- CONTRACTOR TO MAINTAIN LOCAL ACCESS AT ALL TIMES
 - EXISTING PAVEMENT MARKINGS ARE APPROXIMATE AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO IMPLEMENTING ANY TRAFFIC CONTROL MEASURES
 - TEMPORARILY CLOSE BUS STOP. COORDINATE WITH DASH TO REDIRECT RIDERS OF ROUTE 31 TO THE STOP AT BEAUREGARD ST AND BRANCH AVE. COORDINATE WITH WMATA TO REDIRECT RIDERS TO OF ROUTE 7A TO THE STOP AT BEAUREGARD ST AND BRANCH AVE.
 - THE CONTRACTOR MUST KEEP LANE OPEN DURING THE PEAK HOURS.

- PROPOSED IMPROVEMENTS**
- CONCRETE BUS PAD FROM FROM STA. 475+19.87 TO STA. 479+49.60
 - MILL & OVERLAY FROM FROM STA. 474+46.59 TO STA. 479+02.39

- SEQUENCE OF CONSTRUCTION**
- PHASE 3B
 - THE CONTRACTOR SHALL SET UP PHASE 1 EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
 - INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 16.2.
 - CONSTRUCT THE CONCRETE BUS PAD FOR THE SOUTHBOUND BUS STATION ON BEAUREGARD STREET AND MILL AND OVERLAY THE SOUTHBOUND OUTSIDE LANE ON BEAUREGARD STREET FROM STA. 474+94.14 TO STA. 477+06.11 AND STA. 477+46.80 TO STA. 479+02.91.



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

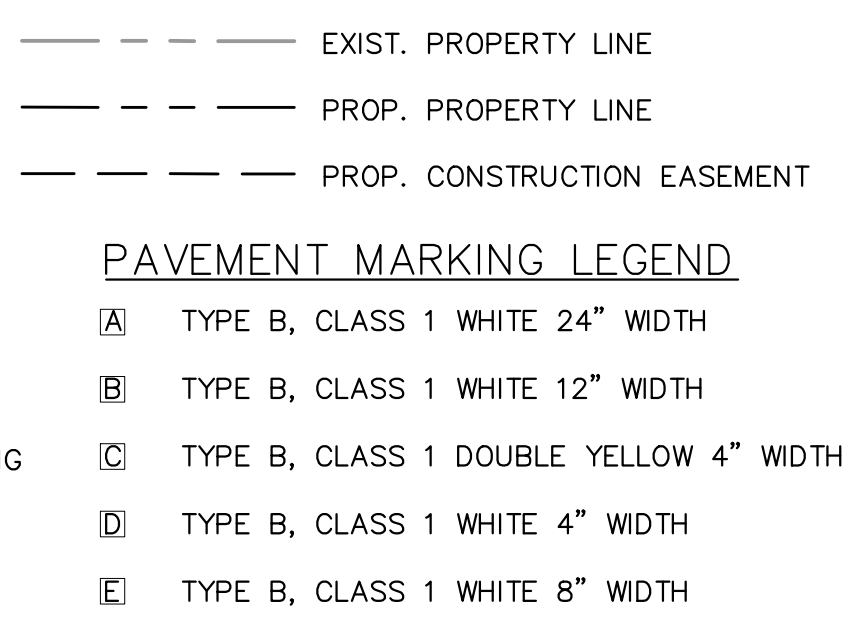
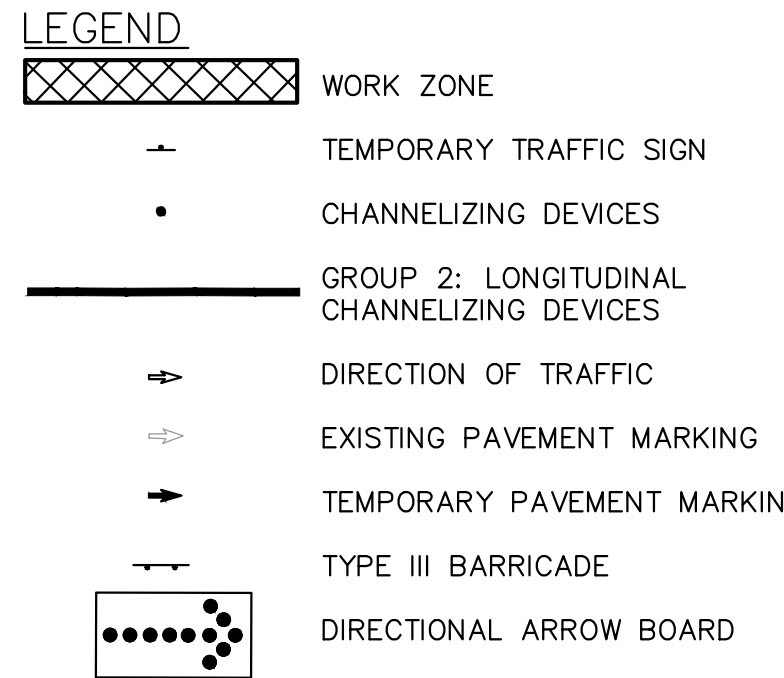
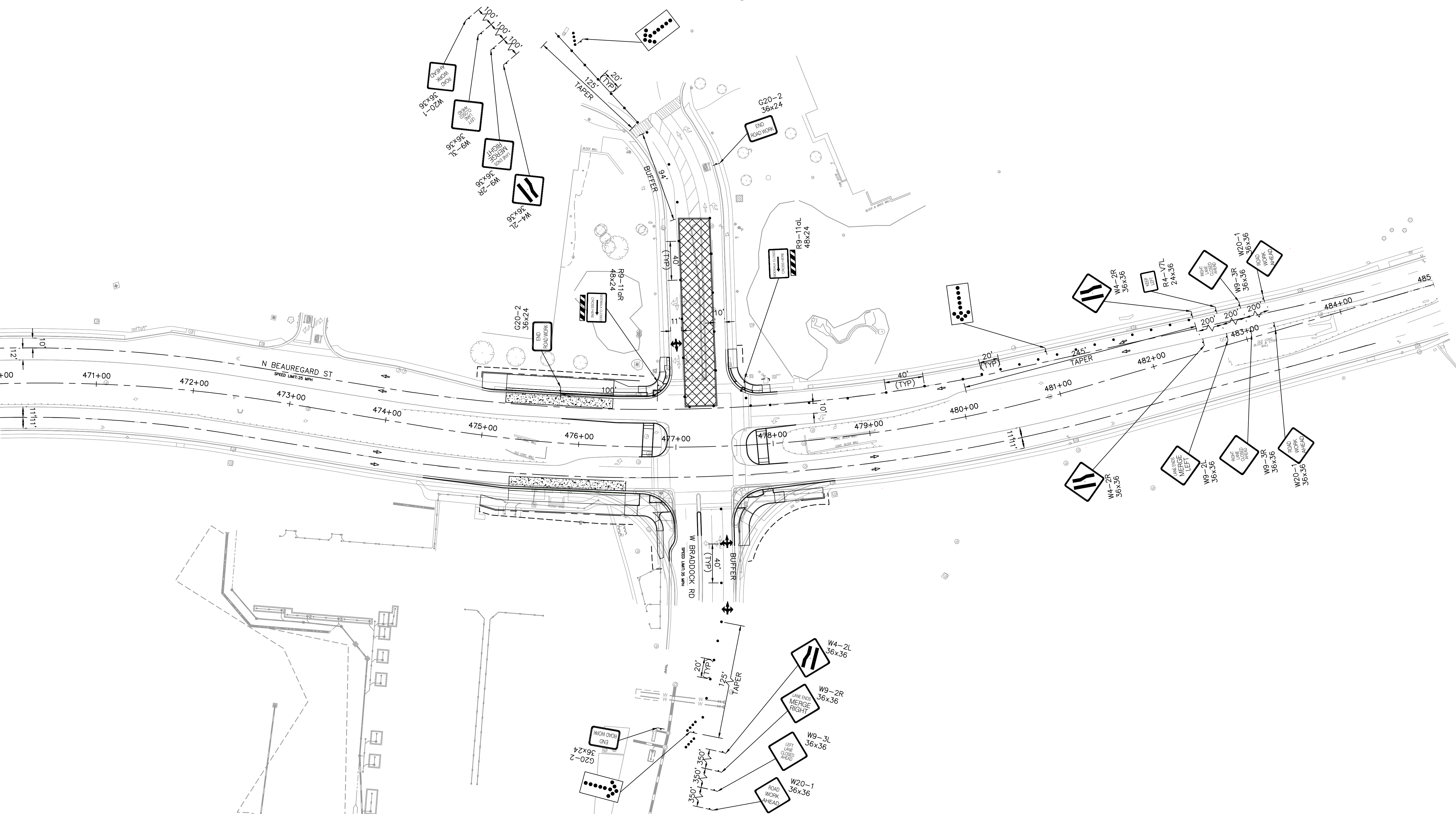
REVISIONS	DATE	DESCRIPTION

ALEXANDRIA PROJECT NO.: 110104122
 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: MAT. DATE: 4/5/24
 DRAWN BY: AUB. DATE: 4/5/24
 CHECKED BY: EJD. DATE: 4/5/24
 APPROVED BY: _____ DATE: _____

MAINTENANCE OF TRAFFIC
PHASE 3B - BEAUREGARD ST
AT BRADDOCK

SHEET
 C-1310G
 SCALE 1" = 50'

Plotted By: Grovitt, Sydney Sheet Set: West End Transitway - Phase 1 Layout: C-114 ROADWAY PLAN May 05, 2023 03:09:34pm K:\NVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\ROADWAY PLAN.dwg



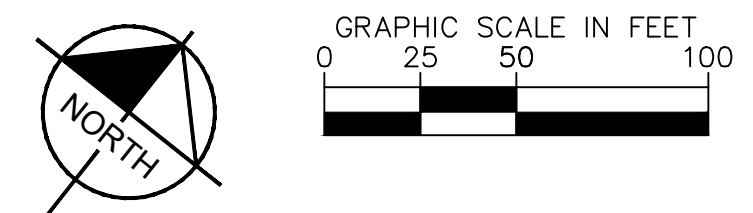
- NOTES**
- CONTRACTOR TO MAINTAIN LOCAL ACCESS AT ALL TIMES
 - EXISTING PAVEMENT MARKINGS ARE APPROXIMATE AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO IMPLEMENTING ANY TRAFFIC CONTROL MEASURES
 - TEMPORARILY CLOSE BUS STOP. COORDINATE WITH DASH TO REDIRECT RIDERS OF ROUTE 31 TO THE STOP AT BEAUREGARD ST AND BRANCH AVE. COORDINATE WITH WMATA TO REDIRECT RIDERS TO OF ROUTE 7A TO THE STOP AT BEAUREGARD ST AND BRANCH AVE.
 - THE CONTRACTOR MUST KEEP LANE OPEN DURING THE PEAK HOURS.
 - MAINTAIN ACCESS TO ROUNDABOUT ON E. CAMPUS DRIVE

PROPOSED IMPROVEMENTS

- CONSTRUCT MEDIAN FROM STA. 477+09.46 TO STA. 477+42.71

SEQUENCE OF CONSTRUCTION

- PHASE 4A
 - THE CONTRACTOR SHALL SET UP PHASE 1 EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
 - INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 17.2.
 - CONSTRUCT THE MEDIAN OF CAMPUS DRIVE FROM STA. 477+09.46 TO STA. 477+42.71.



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

MAINTENANCE OF TRAFFIC
PHASE 4A - BEAUREGARD ST
AT BRADDOCK

90% DESIGN PHASE

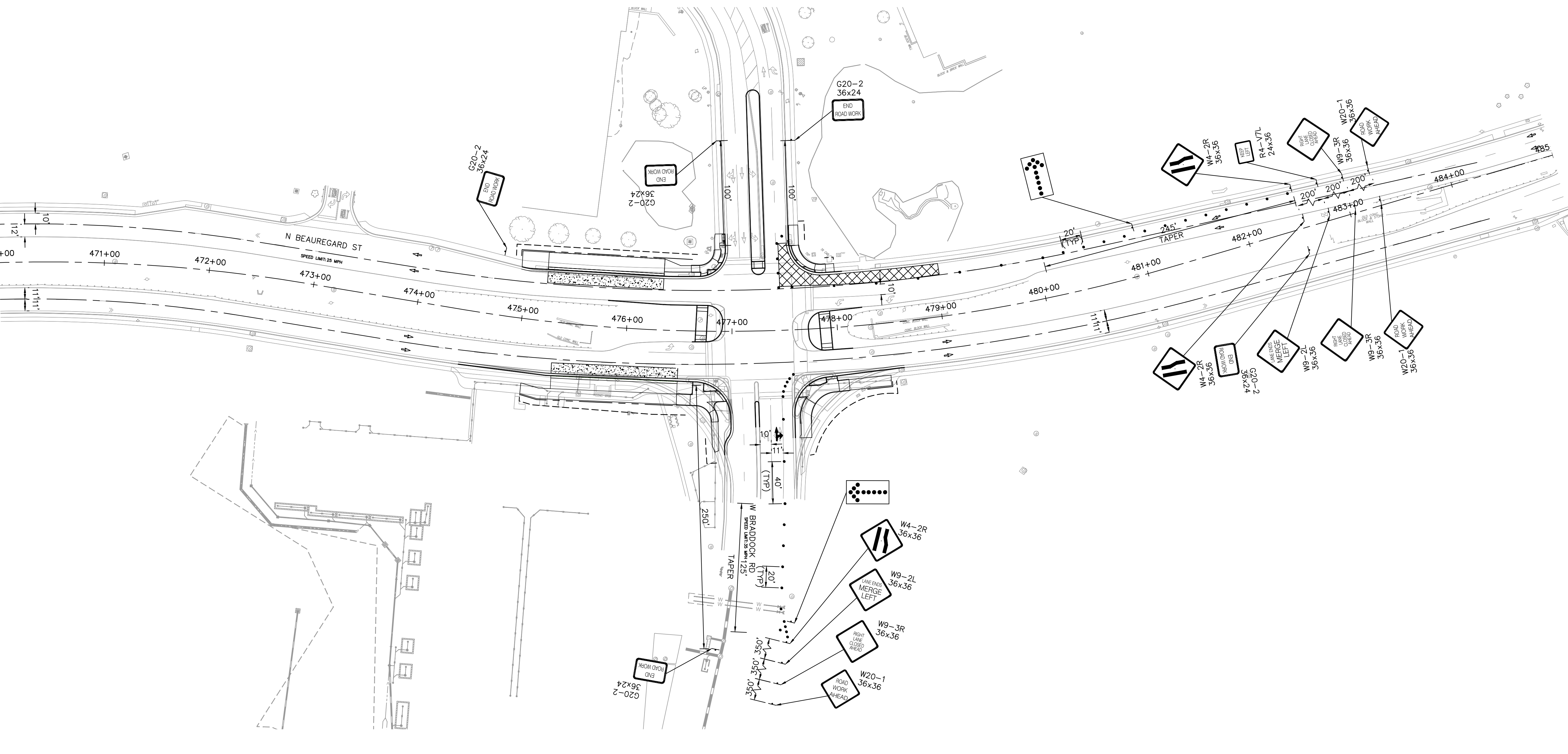
CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

REVISIONS	DESCRIPTION
DATE	BY

ALEXANDRIA PROJECT NO.: 110104122	DATE OF PLAN ISSUANCE: N/A
CONSULTANT PROJECT ID: N/A	DESIGNED BY: EJD DATE: 4/5/24
	DRAWN BY: SJC DATE: 4/5/24
	CHECKED BY: EJD DATE: 4/5/24
	APPROVED BY: _____ DATE: _____

SHEET
C-1310H
SCALE 1" = 50'

Plotted By: Grovitt, Sydney Sheet Set: West End Transitway - Phase 1 Layout: C-114 ROADWAY PLAN May 05, 2023 03:09:34pm K:\NVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\ROADWAY PLAN.dwg



LEGEND

	WORK ZONE		EXIST. PROPERTY LINE
	TEMPORARY TRAFFIC SIGN		PROP. PROPERTY LINE
	CHANNELIZING DEVICES		PROP. CONSTRUCTION EASEMENT
	GROUP 2: LONGITUDINAL CHANNELIZING DEVICES		
	DIRECTION OF TRAFFIC		
	EXISTING PAVEMENT MARKING		
	TEMPORARY PAVEMENT MARKING		
	TYPE III BARRICADE		
	DIRECTIONAL ARROW BOARD		

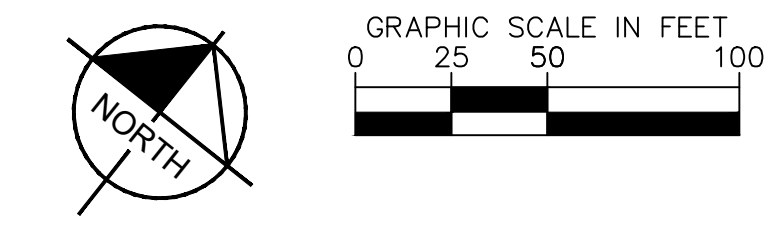
PAVEMENT MARKING LEGEND

	TYPE B, CLASS 1 WHITE 24" WIDTH
	TYPE B, CLASS 1 WHITE 12" WIDTH
	TYPE B, CLASS 1 DOUBLE YELLOW 4" WIDTH
	TYPE B, CLASS 1 WHITE 4" WIDTH
	TYPE B, CLASS 1 WHITE 8" WIDTH

- NOTES**
- CONTRACTOR TO MAINTAIN LOCAL ACCESS AT ALL TIMES
 - EXISTING PAVEMENT MARKINGS ARE APPROXIMATE AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO IMPLEMENTING ANY TRAFFIC CONTROL MEASURES
 - TEMPORARILY CLOSE BUS STOP. COORDINATE WITH DASH TO REDIRECT RIDERS OF ROUTE 31 TO THE STOP AT BEAUREGARD ST AND BRANCH AVE. COORDINATE WITH WMATA TO REDIRECT RIDERS TO OF ROUTE 7A TO THE STOP AT BEAUREGARD ST AND BRANCH AVE.
 - THE CONTRACTOR MUST KEEP LANE OPEN DURING THE PEAK HOURS.

- PROPOSED IMPROVEMENTS**
- MILL & OVERLAY FROM STA. STA. 477+46.80 TO STA. 479+02.41

- SEQUENCE OF CONSTRUCTION**
- PHASE 4B
 - THE CONTRACTOR SHALL SET UP PHASE 1 EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
 - INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 16.2.
 - MILL AND OVERLAY THE SOUTHBOUND OUTSIDE LANE OF BEAUREGARD STEET FROM STA. 477+46.80 TO STA. 479+02.41.



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE



CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

REVISIONS

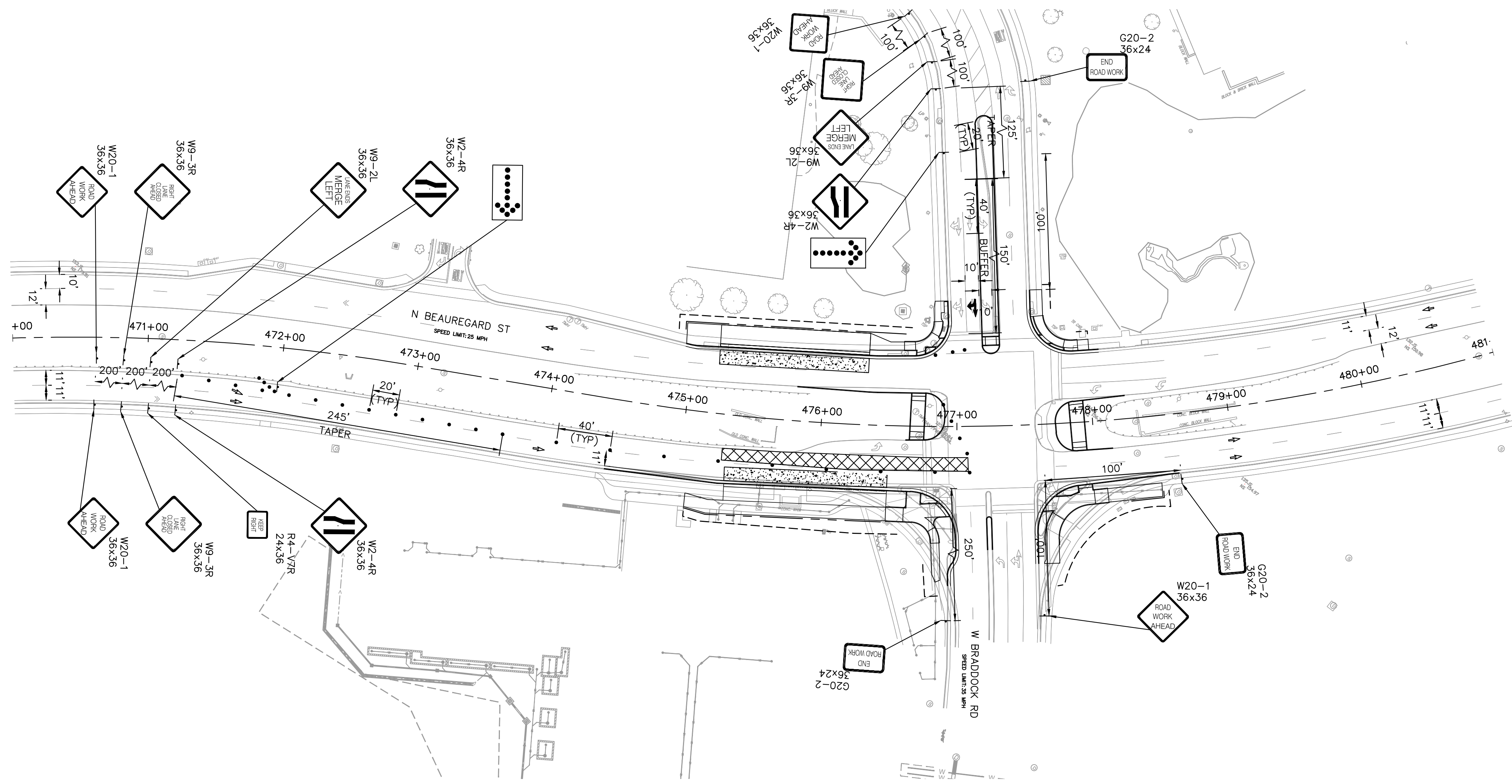
DATE	BY	DESCRIPTION

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DATE OF PLAN ISSUANCE:	N/A
CONSULTANT PROJECT ID.:	N/A
DESIGNED BY:	J.M.T. DATE: 4/5/24
DRAWN BY:	A.J.B. DATE: 4/5/24
CHECKED BY:	
APPROVED BY:	

MAINTENANCE OF TRAFFIC
PHASE 4B - BEAUREGARD ST
AT BRADDOCK

SHEET
 C-1310J
 SCALE 1" = 50'

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LEGEND

	WORK ZONE
	TEMPORARY TRAFFIC SIGN
	CHANNELIZING DEVICES
	GROUP 2: LONGITUDINAL CHANNELIZING DEVICES
	DIRECTION OF TRAFFIC
	EXISTING PAVEMENT MARKING
	TEMPORARY PAVEMENT MARKING
	TYPE III BARRICADE
	DIRECTIONAL ARROW BOARD

	EXIST. PROPERTY LINE
	PROP. PROPERTY LINE
	PROP. CONSTRUCTION EASEMENT

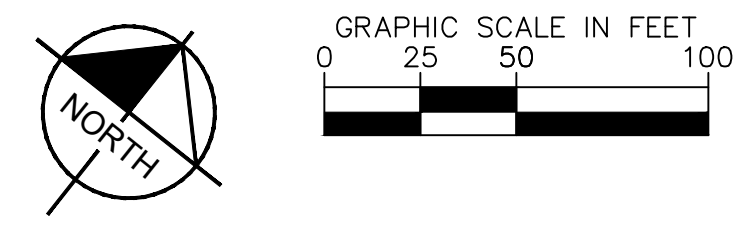
PAVEMENT MARKING LEGEND

	TYPE B, CLASS 1 WHITE 24" WIDTH
	TYPE B, CLASS 1 WHITE 12" WIDTH
	TYPE B, CLASS 1 DOUBLE YELLOW 4" WIDTH
	TYPE B, CLASS 1 WHITE 4" WIDTH
	TYPE B, CLASS 1 WHITE 8" WIDTH

- NOTES**
- CONTRACTOR TO MAINTAIN LOCAL ACCESS AT ALL TIMES
 - EXISTING PAVEMENT MARKINGS ARE APPROXIMATE AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO IMPLEMENTING ANY TRAFFIC CONTROL MEASURES
 - TEMPORARILY CLOSE BUS STOP. COORDINATE WITH DASH TO REDIRECT RIDERS OF ROUTE 31 TO THE STOP AT BEAUREGARD ST AND BRANCH AVE. COORDINATE WITH WMATA TO REDIRECT RIDERS TO OF ROUTE 7A TO THE STOP AT BEAUREGARD ST AND BRANCH AVE.
 - THE CONTRACTOR MUST KEEP LANE OPEN DURING THE PEAK HOURS.

- PROPOSED IMPROVEMENTS**
- MILL & OVERLAY FROM STA. 475+29.65 TO STA. 477+07.96

- SEQUENCE OF CONSTRUCTION**
- PHASE 4C
 - THE CONTRACTOR SHALL SET UP PHASE 1 EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
 - INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 16.2.
 - MILL AND OVERLAY THE NORTHBOUND CENTER LANE OF BEAUREGARD STREET FROM STA. 475+29.65 TO STA. 477+07.96



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

MAINTENANCE OF TRAFFIC
PHASE 4C - BEAUREGARD ST
AT BRADDOCK

90% DESIGN PHASE

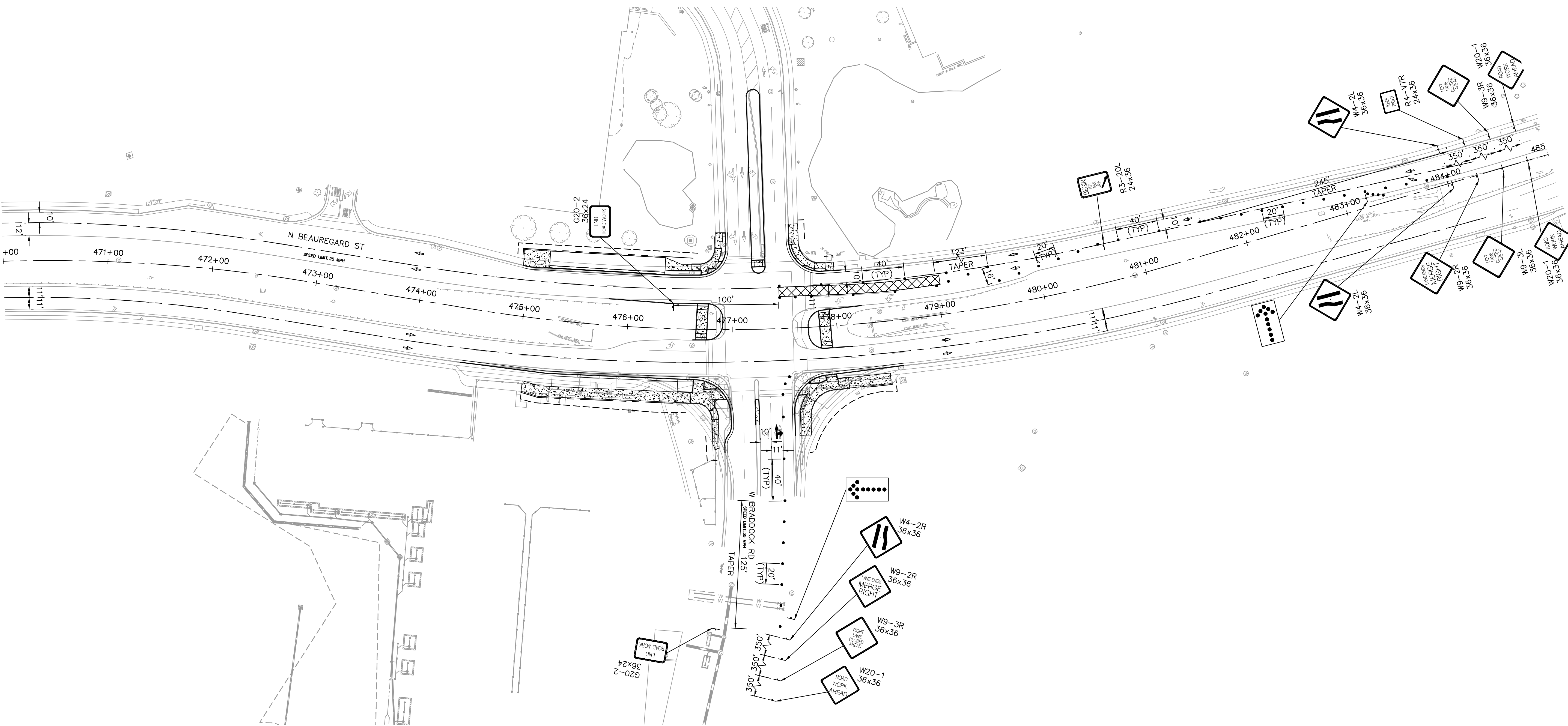
CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

REVISIONS	DESCRIPTION

ALEXANDRIA PROJECT NO.: 110104122	DATE OF PLAN ISSUANCE: N/A
CONSULTANT PROJECT ID: N/A	DESIGNED BY: MAT DATE: 4/5/24
	DRAWN BY: AUB DATE: 4/5/24
	CHECKED BY: END DATE: 4/5/24
	APPROVED BY: DATE:

SHEET
C-1310K
SCALE 1" = 50'

Plotted By: Grovitt, Sydney Sheet Set: West End Transitway - Phase 1 Layout: C-114 ROADWAY PLAN May 05, 2023 03:09:34pm K:\NVA_Transit\110104122_West_End_Transitway_Design\CADD\PlanSheets\ROADWAY_PLAN.dwg



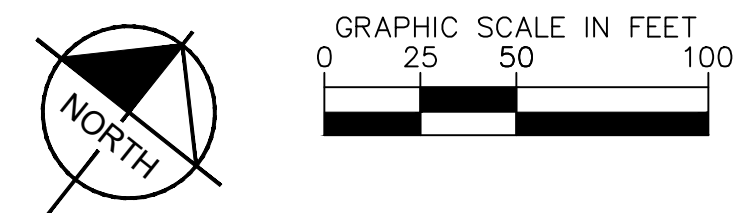
LEGEND

	WORK ZONE		EXIST. PROPERTY LINE
	TEMPORARY TRAFFIC SIGN		PROP. PROPERTY LINE
	CHANNELIZING DEVICES		PROP. CONSTRUCTION EASEMENT
	GROUP 2: LONGITUDINAL CHANNELIZING DEVICES	PAVEMENT MARKING LEGEND	
	DIRECTION OF TRAFFIC		TYPE B, CLASS 1 WHITE 24" WIDTH
	EXISTING PAVEMENT MARKING		TYPE B, CLASS 1 WHITE 12" WIDTH
	TEMPORARY PAVEMENT MARKING		TYPE B, CLASS 1 DOUBLE YELLOW 4" WIDTH
	TYPE III BARRICADE		TYPE B, CLASS 1 WHITE 4" WIDTH
	DIRECTIONAL ARROW BOARD		TYPE B, CLASS 1 WHITE 8" WIDTH

- NOTES**
- CONTRACTOR TO MAINTAIN LOCAL ACCESS AT ALL TIMES
 - EXISTING PAVEMENT MARKINGS ARE APPROXIMATE AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO IMPLEMENTING ANY TRAFFIC CONTROL MEASURES
 - TEMPORALLY CLOSE BUS STOP. COORDINATE WITH DASH TO REDIRECT RIDERS OF ROUTE 31 TO THE STOP AT BEAUREGARD ST AND BRANCH AVE. COORDINATE WITH WMATA TO REDIRECT RIDERS TO OF ROUTE 7A TO THE STOP AT BEAUREGARD ST AND BRANCH AVE.
 - THE CONTRACTOR MUST KEEP LANE OPEN DURING THE PEAK HOURS.

- PROPOSED IMPROVEMENTS**
- MILL & OVERLAY FROM STA. 477+45.86 TO STA. 479+03.06

- SEQUENCE OF CONSTRUCTION**
- PHASE 4D
 - THE CONTRACTOR SHALL SET UP PHASE 1 EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
 - INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 26.2.
 - MILL AND OVERLAY THE SOUTHBOUND CENTER LANE OF BEAUREGARD STREET FROM STA. 477+45.86 TO STA. 479+03.06.



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

**MAINTENANCE OF TRAFFIC
PHASE 4D - BEAUREGARD ST
AT BRADDOCK**

90% DESIGN PHASE

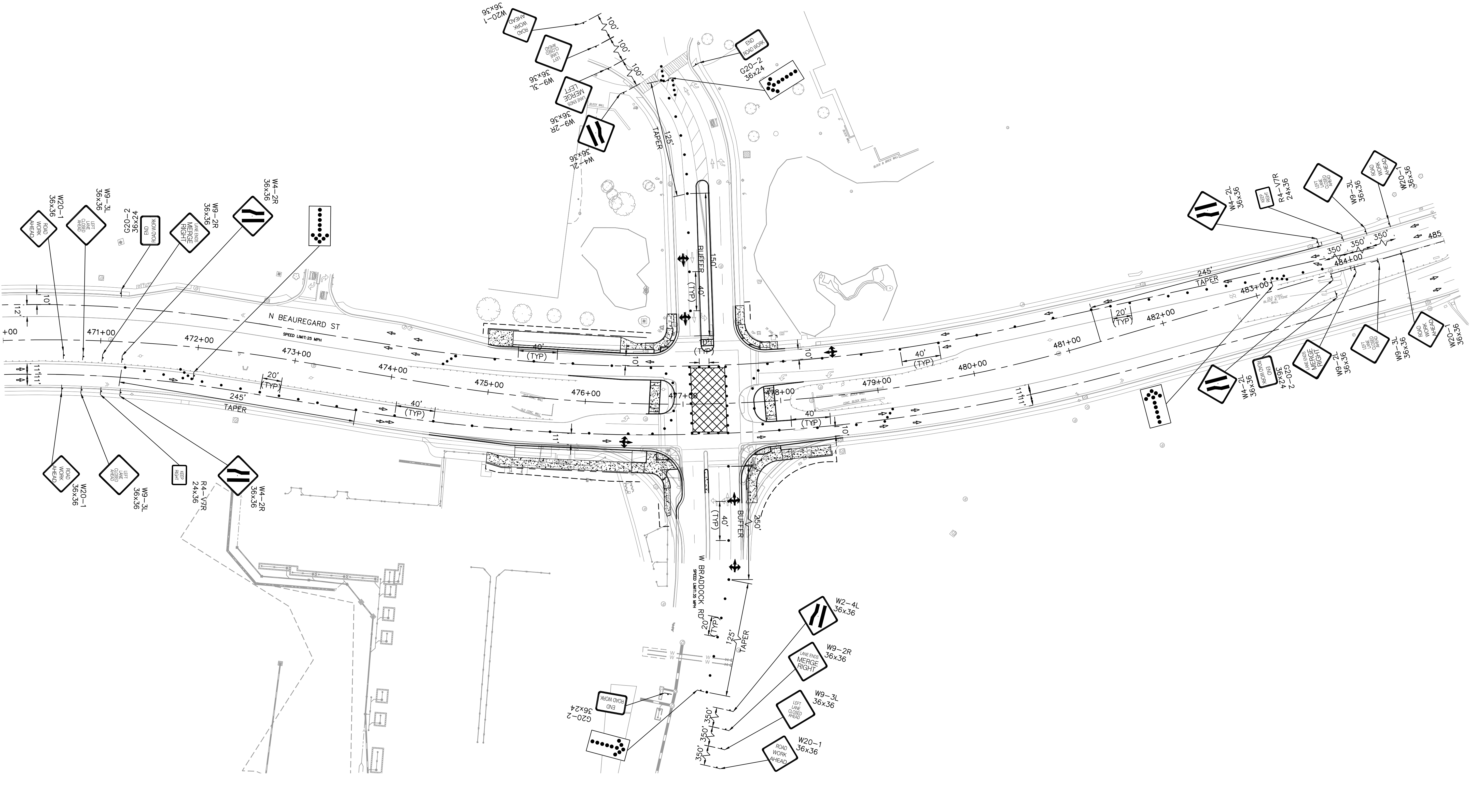
CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

REVISIONS	DATE	DESCRIPTION

ALEXANDRIA PROJECT NO.: 110104122	DATE OF PLAN ISSUANCE: N/A	CONSULTANT PROJECT ID: N/A
DESIGNED BY: EJD	DATE: 5/5/23	SUG. DATE: 5/5/23
DRAWN BY: EJD	DATE: 5/5/23	CHECKED BY: EJD
	DATE: 5/5/23	APPROVED BY: EJD

SHEET
C-1310L
SCALE 1" = 50'

Plotted By: Grovitt, Sydney Sheet Set: West End Transitway - Phase 1 Layout: C-114 ROADWAY PLAN May 05, 2023 03:09:34pm K:\NVA_Transit\10104122_West End Transitway Design\CADD\PlanSheets\ROADWAY PLAN.dwg



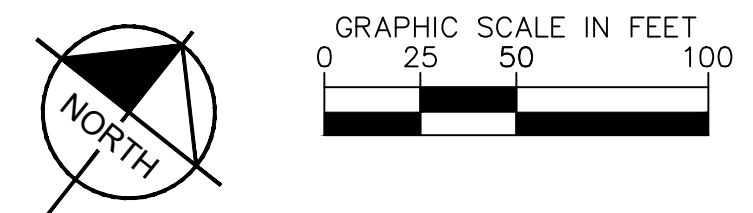
LEGEND

	WORK ZONE		EXIST. PROPERTY LINE
	TEMPORARY TRAFFIC SIGN		PROP. PROPERTY LINE
	CHANNELIZING DEVICES		PROP. CONSTRUCTION EASEMENT
	GROUP 2: LONGITUDINAL CHANNELIZING DEVICES	PAVEMENT MARKING LEGEND	
	DIRECTION OF TRAFFIC		TYPE B, CLASS 1 WHITE 24" WIDTH
	EXISTING PAVEMENT MARKING		TYPE B, CLASS 1 WHITE 12" WIDTH
	TEMPORARY PAVEMENT MARKING		TYPE B, CLASS 1 DOUBLE YELLOW 4" WIDTH
	TYPE III BARRICADE		TYPE B, CLASS 1 WHITE 4" WIDTH
	DIRECTIONAL ARROW BOARD		TYPE B, CLASS 1 WHITE 8" WIDTH

- NOTES**
- CONTRACTOR TO MAINTAIN LOCAL ACCESS AT ALL TIMES
 - EXISTING PAVEMENT MARKINGS ARE APPROXIMATE AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO IMPLEMENTING ANY TRAFFIC CONTROL MEASURES
 - TEMPORARILY CLOSE BUS STOP. COORDINATE WITH DASH TO REDIRECT RIDERS OF ROUTE 31 TO THE STOP AT BEAUREGARD ST AND BRANCH AVE. COORDINATE WITH WMATA TO REDIRECT RIDERS TO OF ROUTE 7A TO THE STOP AT BEAUREGARD ST AND BRANCH AVE.
 - THE CONTRACTOR MUST KEEP LANE OPEN DURING THE PEAK HOURS.

- PROPOSED IMPROVEMENTS**
- MILL & OVERLAY FROM STA. STA. 477+09.13 TO STA. 477+43.98

- SEQUENCE OF CONSTRUCTION**
- PHASE 4E
 - THE CONTRACTOR SHALL SET UP PHASE 1 EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
 - INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 17.2.
 - MILL AND OVERLAY THE INTERSECTION OF BEAUREGARD STREET AND BRADDOCK ROAD FROM STA. 477+09.13 TO STA. 477+43.98.



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

**MAINTENANCE OF TRAFFIC
 PHASE 4E - BEAUREGARD ST
 AT BRADDOCK**

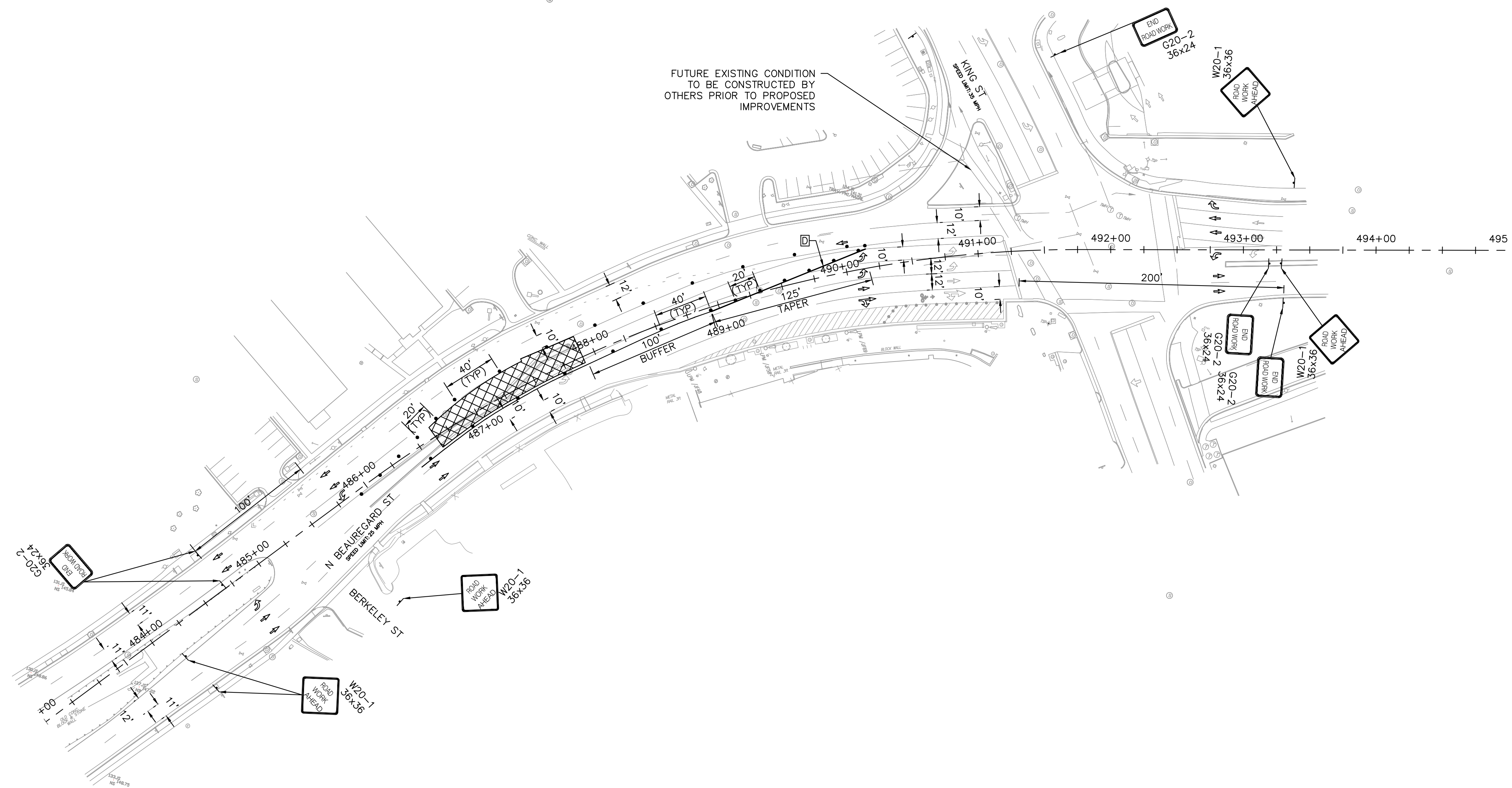
SHEET
 C-1310M
 SCALE 1" = 50'

90% DESIGN PHASE

REVISIONS	DESCRIPTION
DATE	BY

ALEXANDRIA PROJECT NO.: 110104122	DATE OF PLAN ISSUANCE: N/A
CONSULTANT PROJECT ID: N/A	DESIGNED BY: EJD DATE: 4/5/24
	DRAWN BY: SJC DATE: 4/5/24
	CHECKED BY: EJD DATE: 4/5/24
	APPROVED BY: _____ DATE: _____

Plotted By: Grovitt, Sydney Sheet Set: West End Transitway - Phase 1 Layout: C-114 ROADWAY PLAN May 05, 2023 03:09:34pm K:\NVA_Transit\110104122_West_End_Transitway_Design\CADD\PlanSheets\ROADWAY_PLAN.dwg



LEGEND

- | | | | |
|--|--|--------------------------------|--|
| | WORK ZONE | | EXIST. PROPERTY LINE |
| | TEMPORARY TRAFFIC SIGN | | PROP. PROPERTY LINE |
| | CHANNELIZING DEVICES | | PROP. CONSTRUCTION EASEMENT |
| | GROUP 2: LONGITUDINAL CHANNELIZING DEVICES | PAVEMENT MARKING LEGEND | |
| | DIRECTION OF TRAFFIC | | TYPE B, CLASS 1 WHITE 24" WIDTH |
| | EXISTING PAVEMENT MARKING | | TYPE B, CLASS 1 WHITE 12" WIDTH |
| | TEMPORARY PAVEMENT MARKING | | TYPE B, CLASS 1 DOUBLE YELLOW 4" WIDTH |
| | TYPE III BARRICADE | | TYPE B, CLASS 1 WHITE 4" WIDTH |
| | DIRECTIONAL ARROW BOARD | | TYPE B, CLASS 1 WHITE 8" WIDTH |

NOTES

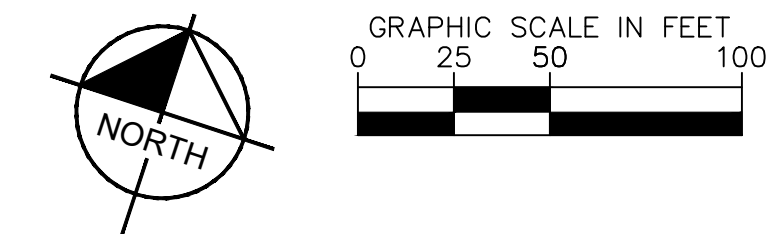
- CONTRACTOR TO MAINTAIN LOCAL ACCESS AT ALL TIMES
- EXISTING PAVEMENT MARKINGS ARE APPROXIMATE AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO IMPLEMENTING ANY TRAFFIC CONTROL MEASURES
- TEMPORARILY CLOSE BUS STOP. COORDINATE WITH DASH TO REDIRECT RIDERS OF ROUTE 31 TO THE STOP AT BEAUREGARD ST AND BRANCH AVE. COORDINATE WITH WMATA TO REDIRECT RIDERS TO OF ROUTE 7A TO THE STOP AT BEAUREGARD ST AND BRANCH AVE.
- THE CONTRACTOR MUST KEEP LANE OPEN DURING THE PEAK HOURS.

PROPOSED IMPROVEMENTS

- MEDIAN FROM STA. 486+60.38 TO STA. 487+90.3

SEQUENCE OF CONSTRUCTION

- PHASE 1
 - THE CONTRACTOR SHALL SET UP PHASE 1 EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
 - INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 29.2.
 - CONSTRUCT TEMPORARY PAVEMENT IN THE MEDIAN ON BEAUREGARD STREET FROM STA. 486+60.38 TO STA. 487+90.39.



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

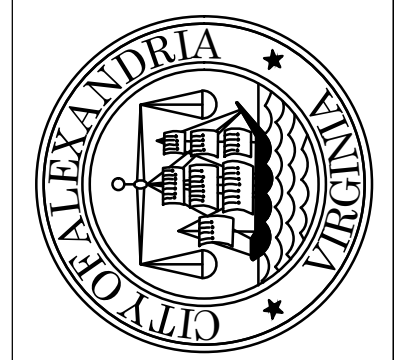
**MAINTENANCE OF TRAFFIC
PHASE 1 - BEAUREGARD ST
AT KING ST**

SHEET
C-1311A
SCALE 1" = 50'

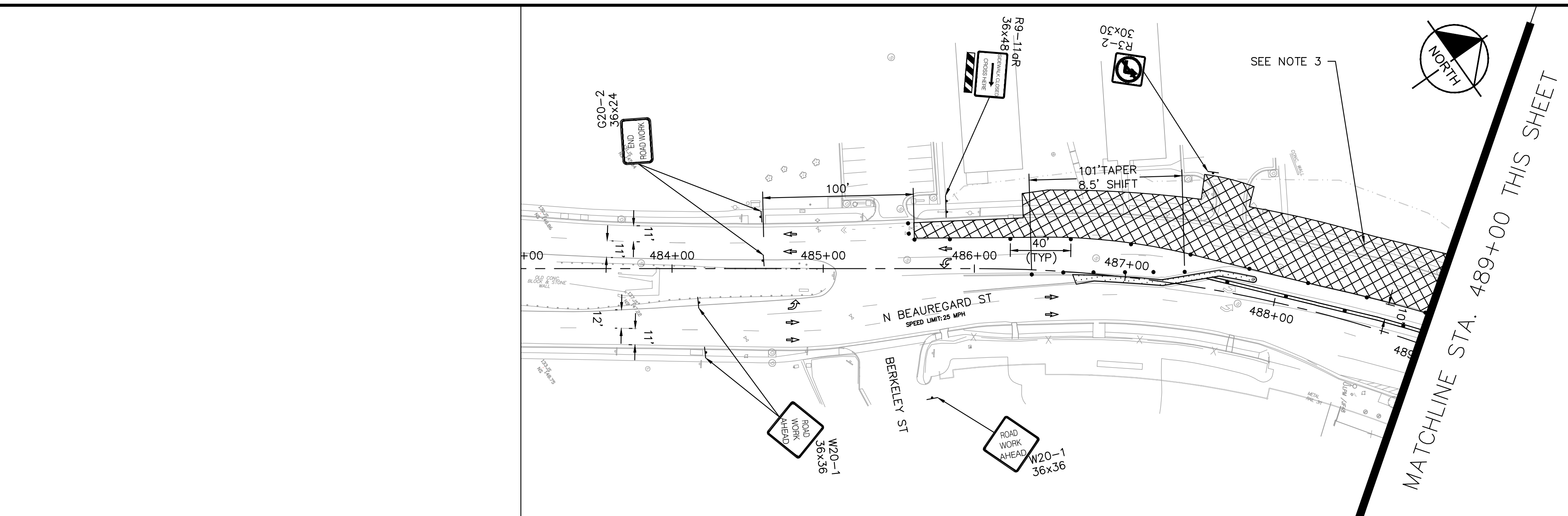
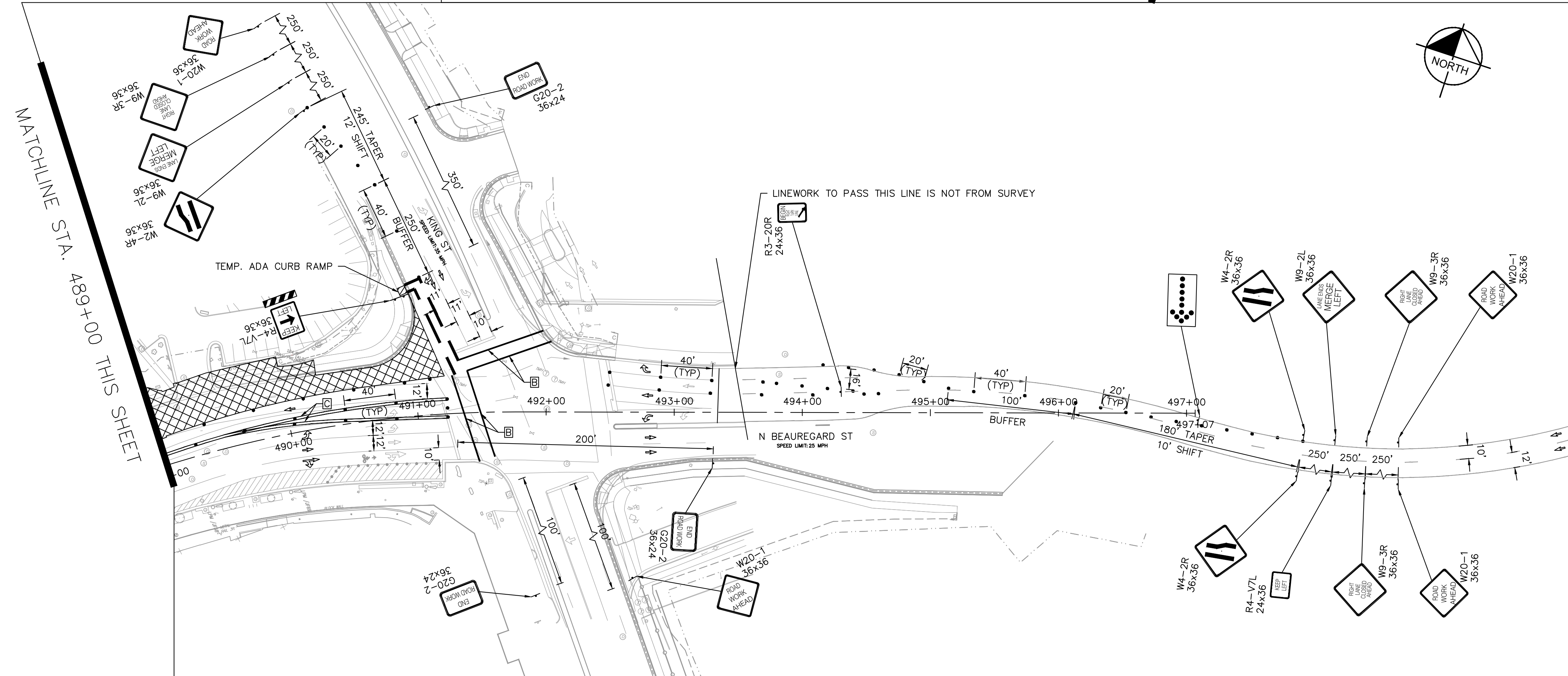
REVISIONS	DATE	DESCRIPTION

ALEXANDRIA PROJECT NO.: 110104122
 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: MAT. DATE: 4/5/24
 DRAWN BY: AUB. DATE: 4/5/24
 CHECKED BY: EJD. DATE: 4/5/24
 APPROVED BY: _____ DATE: _____

CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313



Plotted By: Grovitt, Sydney Sheet Set: West End Transitway - Phase 1 Layout: C-114 ROADWAY PLAN May 05, 2023 03:09:34pm K:\NVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\ROADWAY PLAN.dwg



LEGEND

	WORK ZONE
	TEMPORARY TRAFFIC SIGN
	CHANNELIZING DEVICES
	GROUP 2: LONGITUDINAL CHANNELIZING DEVICES
	DIRECTION OF TRAFFIC
	EXISTING PAVEMENT MARKING
	TEMPORARY PAVEMENT MARKING
	TYPE III BARRICADE
	DIRECTIONAL ARROW BOARD

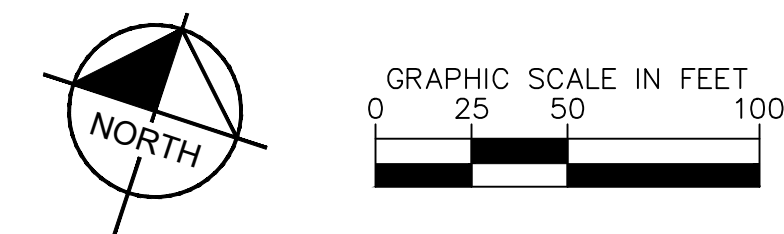
PAVEMENT MARKING LEGEND

	EXIST. PROPERTY LINE
	PROP. PROPERTY LINE
	PROP. CONSTRUCTION EASEMENT
	TYPE B, CLASS 1 WHITE 24" WIDTH
	TYPE B, CLASS 1 WHITE 12" WIDTH
	TYPE B, CLASS 1 DOUBLE YELLOW 4" WIDTH
	TYPE B, CLASS 1 WHITE 4" WIDTH
	TYPE B, CLASS 1 WHITE 8" WIDTH

- NOTES**
- CONTRACTOR TO MAINTAIN LOCAL ACCESS AT ALL TIMES
 - EXISTING PAVEMENT MARKINGS ARE APPROXIMATE AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO IMPLEMENTING ANY TRAFFIC CONTROL MEASURES
 - TEMPORARILY CLOSE BUS STOP. COORDINATE WITH DASH TO REDIRECT RIDERS OF ROUTE 31 TO THE STOP AT BEAUREGARD ST AND BRANCH AVE. COORDINATE WITH WMATA TO REDIRECT RIDERS TO OF ROUTE 7A TO THE STOP AT BEAUREGARD ST AND BRANCH AVE.
 - THE CONTRACTOR MUST KEEP LANE OPEN DURING THE PEAK HOURS.

- PROPOSED IMPROVEMENTS**
- SIDEWALK FROM STA. 485+60.38 TO STA. 491+22.20
 - PLATFORM FROM STA. 485+60.38 TO STA. 491+22.20
 - CURB AND GUTTER FROM STA. 485+60.38 TO STA. 491+22.20
 - CURB RAMPS FROM STA. 485+60.38 TO STA. 491+22.20
 - CONCRETE BUS PAD FROM STA. 485+60.38 TO STA. 491+22.20
 - MILL & OVERLAY FROM STA. 485+60.38 TO STA. 491+22.20

- SEQUENCE OF CONSTRUCTION**
- PHASE 2
 - THE CONTRACTOR SHALL SET UP PHASE 1 EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
 - INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 16.2.
 - CONSTRUCT SIDEWALK, PLATFORM, CURB RAMPS, CURB AND GUTTER, CONCRETE BUS PAD, AND DRIVEWAY ENTRANCES, AND MILL AND OVERLAY THE OUTSIDE LANES OF SOUTHBOUND BEAUREGARD STREET FROM STA. 485+60.38 TO STA. 491+22.20.



WEST END TRANSITWAY – PHASE 1 IMPROVEMENTS

**MAINTENANCE OF TRAFFIC
PHASE 2 – BEAUREGARD ST
AT KING ST**

90% DESIGN PHASE

CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313




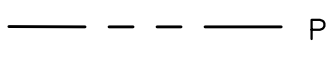

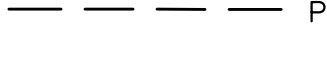











REVISIONS	DATE	BY	DESCRIPTION

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 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: MAT DATE: 4/5/24
 DRAWN BY: AUB DATE: 4/5/24
 CHECKED BY: EJD DATE: 4/5/24
 APPROVED BY: _____ DATE: _____

SHEET
C-1311B
SCALE 1" = 50'

Plotted By: Grovitt, Sydney Sheet Set: West End Transitway - Phase 1 Layout: C-114 ROADWAY PLAN May 05, 2023 03:09:34pm K:\NVA_Transist\10104122_West End Transitway Design\CADD\PlanSheets\ROADWAY PLAN.dwg

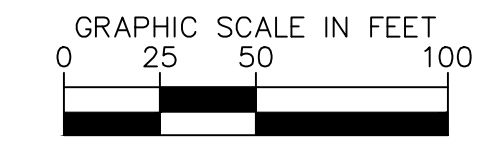
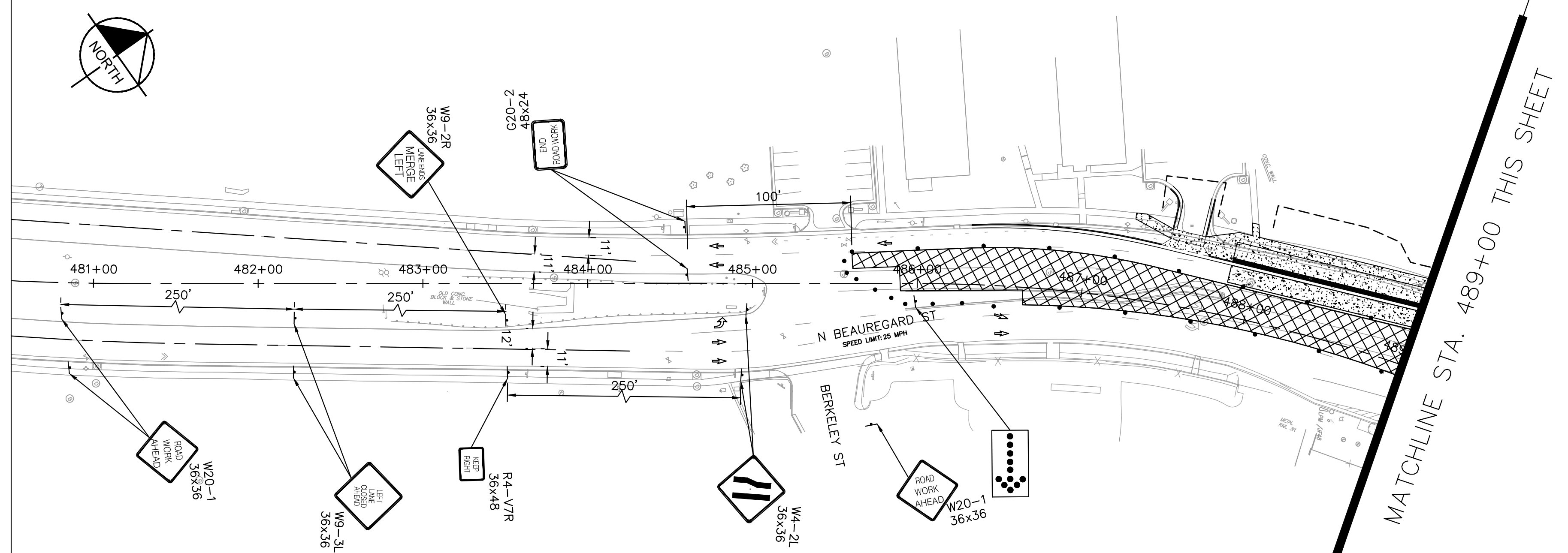
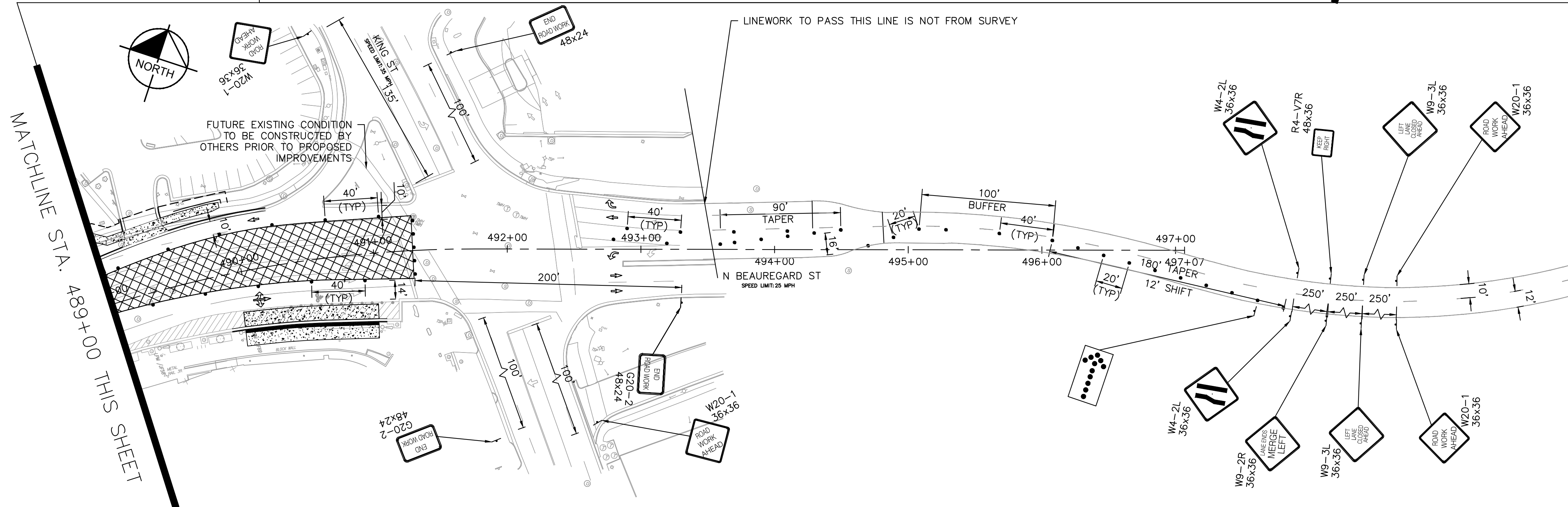
LEGEND

	WORK ZONE		EXIST. PROPERTY LINE
	TEMPORARY TRAFFIC SIGN		PROP. PROPERTY LINE
	CHANNELIZING DEVICES		PROP. CONSTRUCTION EASEMENT
	GROUP 2: LONGITUDINAL CHANNELIZING DEVICES	PAVEMENT MARKING LEGEND	
	DIRECTION OF TRAFFIC		TYPE B, CLASS 1 WHITE 24" WIDTH
	EXISTING PAVEMENT MARKING		TYPE B, CLASS 1 WHITE 12" WIDTH
	TEMPORARY PAVEMENT MARKING		TYPE B, CLASS 1 DOUBLE YELLOW 4" WIDTH
	TYPE III BARRICADE		TYPE B, CLASS 1 WHITE 4" WIDTH
	DIRECTIONAL ARROW BOARD		TYPE B, CLASS 1 WHITE 8" WIDTH

- NOTES**
- CONTRACTOR TO MAINTAIN LOCAL ACCESS AT ALL TIMES
 - EXISTING PAVEMENT MARKINGS ARE APPROXIMATE AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO IMPLEMENTING ANY TRAFFIC CONTROL MEASURES
 - TEMPORARILY CLOSE BUS STOP. COORDINATE WITH DASH TO REDIRECT RIDERS OF ROUTE 31 TO THE STOP AT BEAUREGARD ST AND BRANCH AVE. COORDINATE WITH WMATA TO REDIRECT RIDERS TO OF ROUTE 7A TO THE STOP AT BEAUREGARD ST AND BRANCH AVE.
 - THE CONTRACTOR MUST KEEP LANE OPEN DURING THE PEAK HOURS.

- PROPOSED IMPROVEMENTS**
- MILL & OVERLAY FROM STA. 485+60.38 TO STA. 491+29.24

- SEQUENCE OF CONSTRUCTION**
- PHASE 3
 - THE CONTRACTOR SHALL SET UP PHASE 1 EROSION AND SEDIMENT CONTROL DEVICES AS DEPICTED IN THE PLANS.
 - INSTALL TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH TTC 27.2.
 - MILL AND OVERLAY THE NORTHBOUND AND SOUTHBOUND INSIDE LANES OF BEAUREGARD STREET FROM STA. 485+60.38 TO STA. 491+29.24



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

**MAINTENANCE OF TRAFFIC
PHASE 3 - BEAUREGARD ST
AT KING ST**

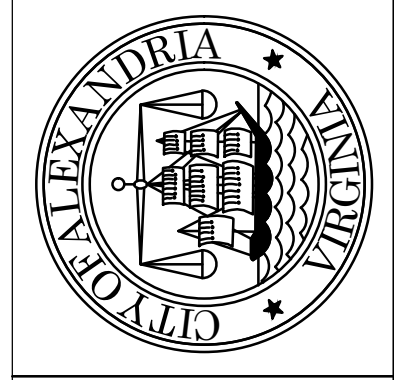
SHEET
C-1311C
SCALE 1" = 50'

ALEXANDRIA PROJECT NO.: 110104122

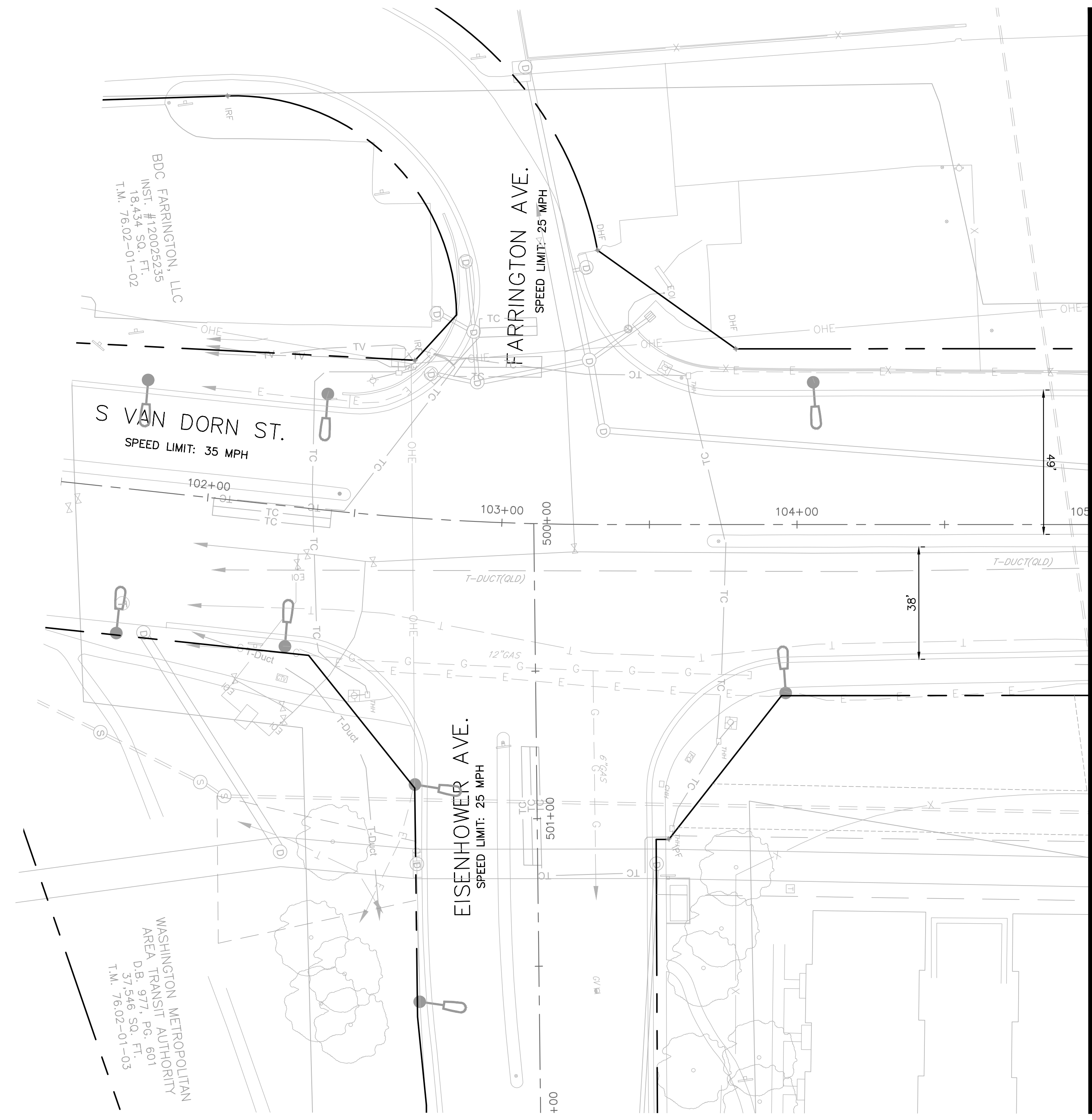
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CONSULTANT PROJECT ID:	N/A
DESIGNED BY:	DATE: 4/5/24
DRAWN BY:	AJB DATE: 4/5/24
CHECKED BY:	EJD DATE: 4/5/24
APPROVED BY:	DATE:

REVISIONS	DATE	DESCRIPTION

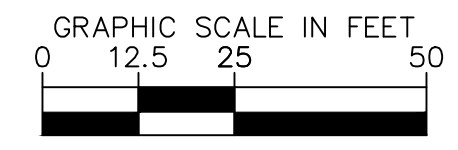
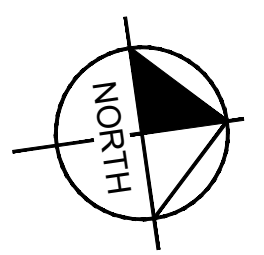
CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313



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MATCHLINE STA. 105+00 SEE SHEET L-1402



PLANT SCHEDULE

CODE	COMMON NAME
CANOPY TREES	
UA	American Elm
PO	American Sycamore
LS	Fruitless Sweetgum
AR	Red Maple
LT	Tulip Poplar
QH	Willow Oak
UNDERSTORY TREES	
CA	American Hornbeam
CC	Eastern Redbud
CF	Flowering Dogwood
MV	Sweetsay Magnolia
CV	White Fringetree
SHRUBS	
AME	Black Chokeberry
ABG	Glossy Abelia
IGL	Inkberry Holly
VAC	Mapleleaf viburnum
MPE	Northern Bayberry
CSE	Red Twig Dogwood
DGR	Slender Deutzia
CAL	Summersweet
ITV	Virginia Sweetspire
MCE	Wax Myrtle

- NOTES:**
- SEE SHEET L-1415 FOR LANDSCAPE DETAILS AND NOTES
 - SEE SHEET L-1415 FOR FULL PLANT SCHEDULE
 - SEE SHEET TP-1416 THROUGH 1431 FOR TREE PRESERVATION PLANS AND DETAILS

WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

LANDSCAPE PLAN

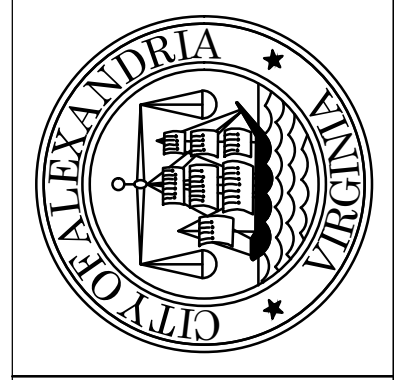
SHEET
L-1401
SCALE 1" = 25'

90% DESIGN PHASE

REVISIONS	DATE	DESCRIPTION

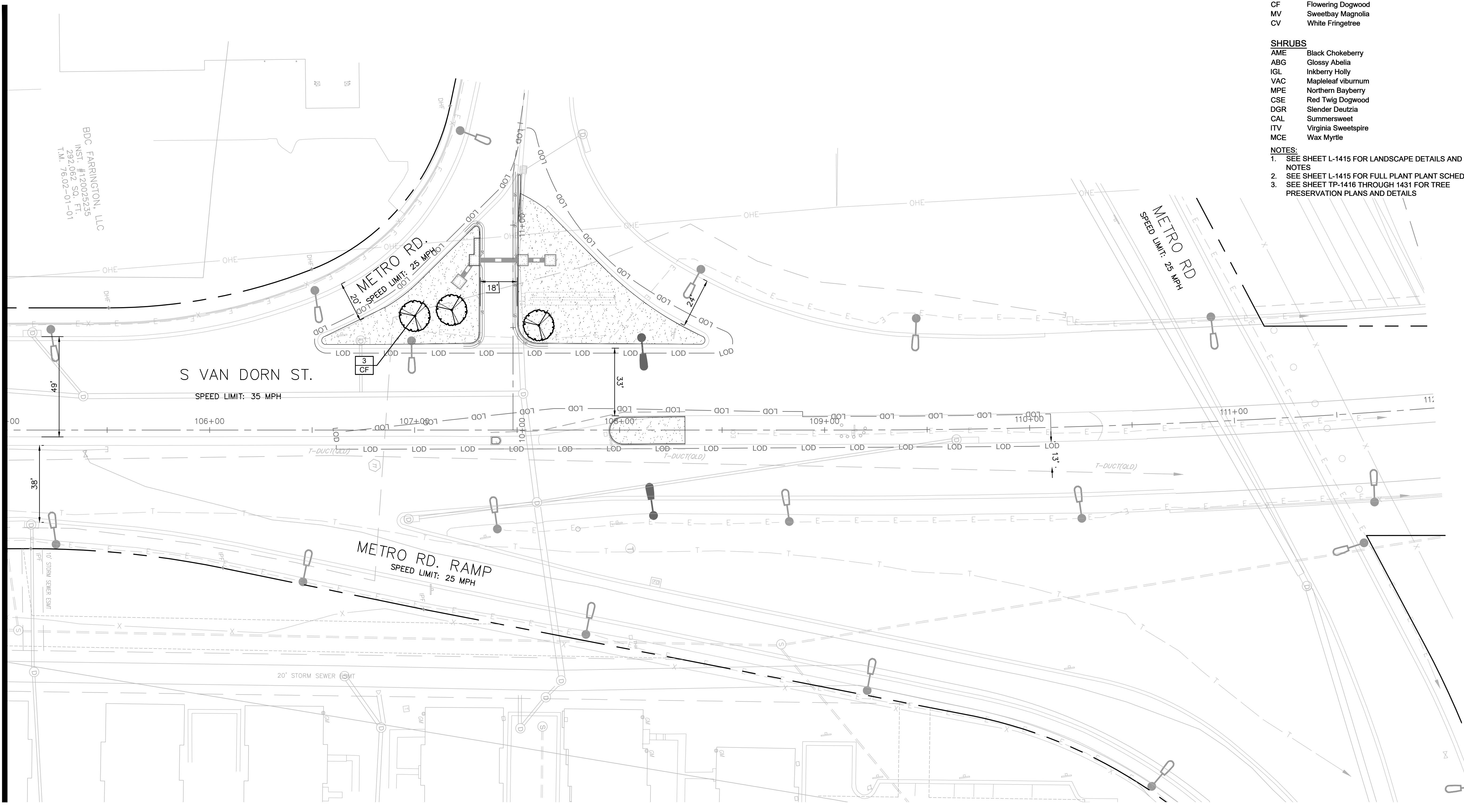
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DATE OF PLAN ISSUANCE:	N/A
CONSULTANT PROJECT ID.:	N/A
DESIGNED BY:	BRB DATE: 4/2/24
DRAWN BY:	BRB DATE: 4/2/24
CHECKED BY:	KA DATE: 4/2/24
APPROVED BY:	DATE: 4/2/24

CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313



Plotted By: Barrazo, Beverly Sheet: Sct West End Transitway - Phase 1 Layout: L-1402 July 12, 2024 11:21:20am \\Vimley-horn.com\AT_NVA2\NVA_Transit\110104122_West_End_Transitway_Design\CADD\PlanSheets\LANDSCAPE_PLAN_VAN_DORN.dwg

MATCHLINE STA. 105+00 SEE SHEET L-1401



BDC FARRINGTON, LLC
 INST. #120005235
 292,062 SQ. FT.
 T.M. 76.02-01-01

PLANT SCHEDULE

CODE COMMON NAME

CANOPY TREES

- UA American Elm
- PO American Sycamore
- LS Fruitless Sweetgum
- AR Red Maple
- LT Tulip Poplar
- QH Willow Oak

UNDERSTORY TREES

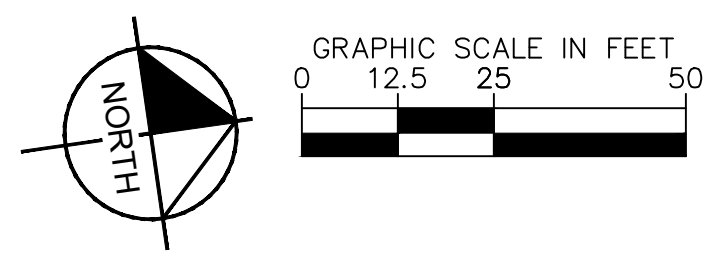
- CA American Hornbeam
- CC Eastern Redbud
- CF Flowering Dogwood
- MV Sweetbay Magnolia
- CV White Fringetree

SHRUBS

- AME Black Chokeberry
- ABG Glossy Abelia
- IGL Inkberry Holly
- VAC Mapleleaf viburnum
- MPE Northern Bayberry
- CSE Red Twig Dogwood
- DGR Slender Deutzia
- CAL Summersweet
- ITV Virginia Sweetspire
- MCE Wax Myrtle

NOTES:

1. SEE SHEET L-1415 FOR LANDSCAPE DETAILS AND NOTES
2. SEE SHEET L-1415 FOR FULL PLANT SCHEDULE
3. SEE SHEET TP-1416 THROUGH 1431 FOR TREE PRESERVATION PLANS AND DETAILS



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS



CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

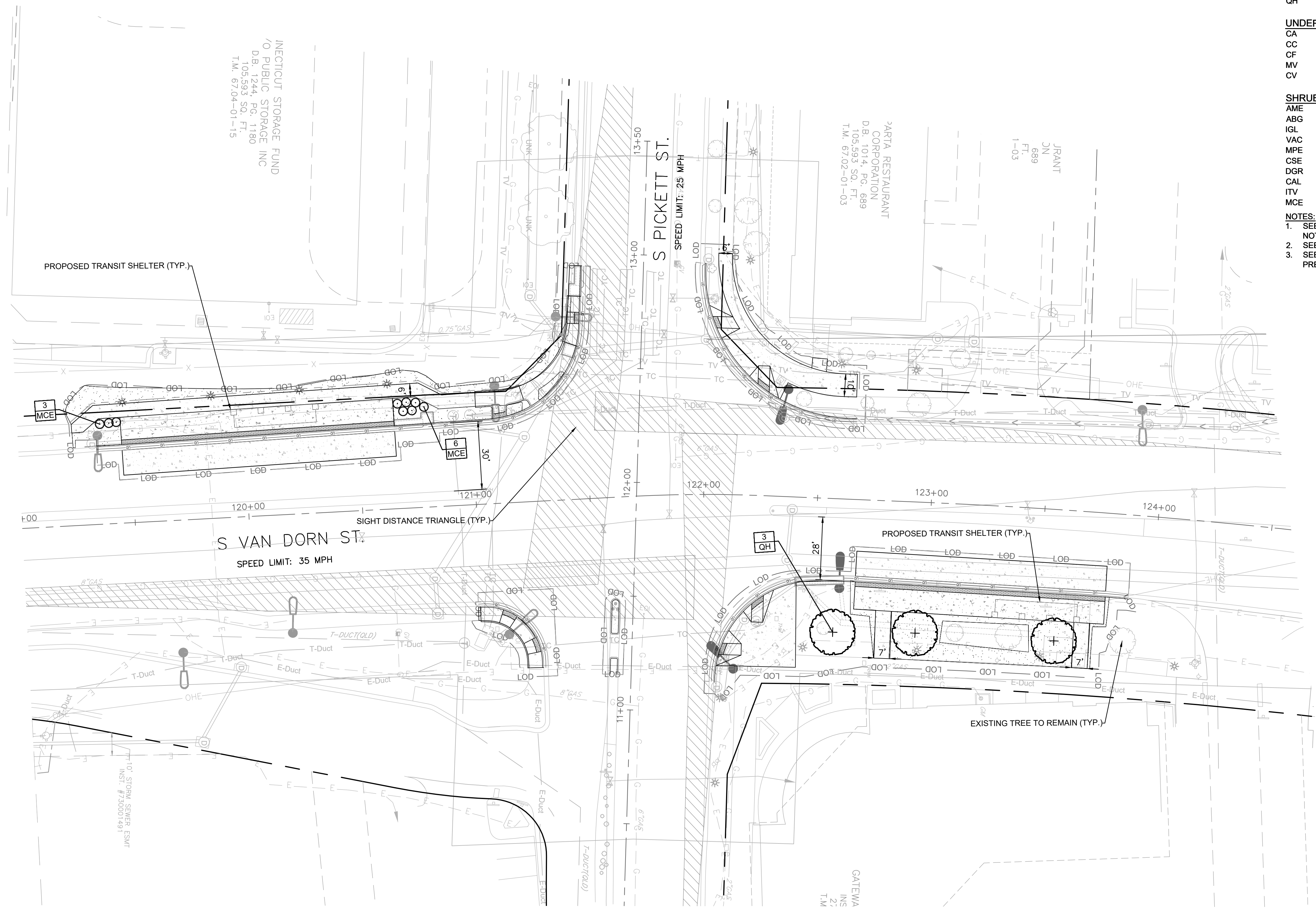
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DATE OF PLAN ISSUANCE:	N/A
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DESIGNED BY:	BRB DATE: 4/2/24
DRAWN BY:	BRB DATE: 4/2/24
CHECKED BY:	KA DATE: 4/2/24
APPROVED BY:	DATE: 4/2/24

LANDSCAPE PLAN

SHEET
 L-1402
 SCALE 1" = 25'

Plotted By: Barrazo, Beverly Sheet Set: West End Transitway - Phase 1 Layout: L-1403 July 12, 2024 11:21:35am \\wimley-horn.com\AT_NVA2\NVA_Transit\110104122_West_End_Transitway_Design\CADD\PlanSheets\LANDSCAPE_PLAN_VAN_DORN.dwg



PLANT SCHEDULE

CODE COMMON NAME

CANOPY TREES

- UA American Elm
- PO American Sycamore
- LS Fruitless Sweetgum
- AR Red Maple
- LT Tulip Poplar
- QH Willow Oak

UNDERSTORY TREES

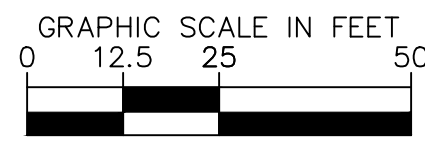
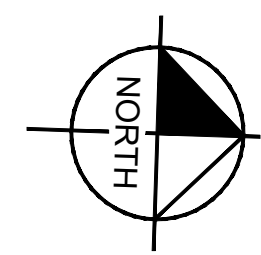
- CA American Hornbeam
- CC Eastern Redbud
- CF Flowering Dogwood
- MV Sweetbay Magnolia
- CV White Fringetree

SHRUBS

- AME Black Chokeberry
- ABG Glossy Abelia
- IGL Inkberry Holly
- VAC Mapleleaf viburnum
- MPE Northern Bayberry
- CSE Red Twig Dogwood
- DGR Slender Deutzia
- CAL Summersweet
- ITV Virginia Sweetspire
- MCE Wax Myrtle

NOTES:

1. SEE SHEET L-1415 FOR LANDSCAPE DETAILS AND NOTES
2. SEE SHEET L-1415 FOR FULL PLANT SCHEDULE
3. SEE SHEET TP-1416 THROUGH 1431 FOR TREE PRESERVATION PLANS AND DETAILS



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

REVISIONS	DATE	DESCRIPTION

ALEXANDRIA PROJECT NO.: 110104122
 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: BRB DATE: 4/2/24
 DRAWN BY: BRB DATE: 4/2/24
 CHECKED BY: KA DATE: 4/2/24
 APPROVED BY: DATE: 4/2/24

LANDSCAPE PLAN

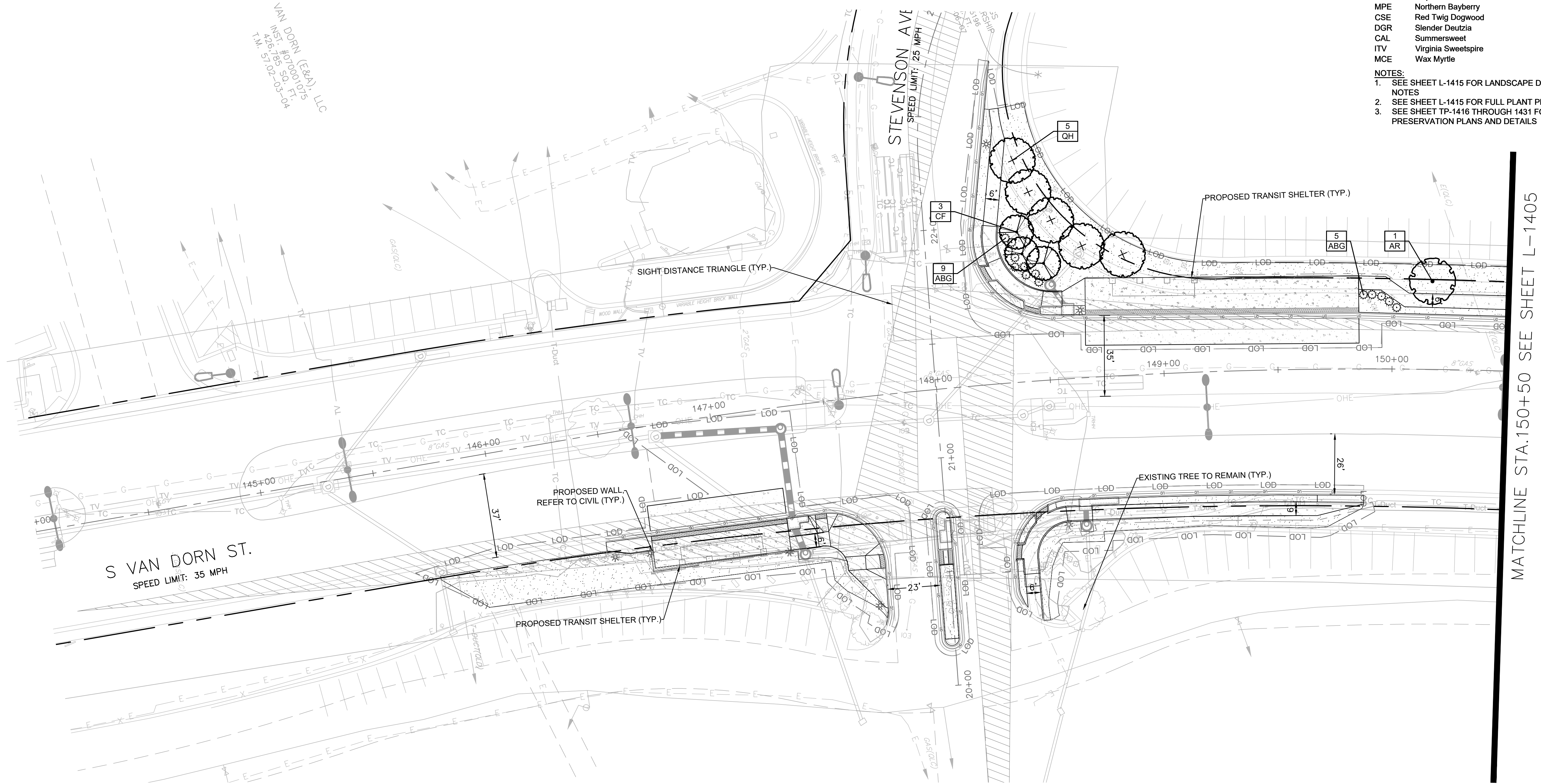
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L-1403
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CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

Plotted By: Barrazo, Beverly Sheet: West End Transitway - Phase 1 Layout: L-1404 July 12, 2024 11:21:51am \\Vimley-horn.com\AT_NVA2\NVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\LANDSCAPE_PLAN\VAN_DORN.dwg

VAN DORN (E&A), LLC
 INST. #070001075
 4261 85-50 FT.
 T.M. 57-02-03-04



PLANT SCHEDULE

CODE COMMON NAME

CANOPY TREES
 UA American Elm
 PO American Sycamore
 LS Fruitless Sweetgum
 AR Red Maple
 LT Tulip Poplar
 QH Willow Oak

UNDERSTORY TREES
 CA American Hornbeam
 CC Eastern Redbud
 CF Flowering Dogwood
 MV Sweetbay Magnolia
 CV White Fringetree

SHRUBS
 AME Black Chokeberry
 ABG Glossy Abelia
 IGL Inkberry Holly
 VAC Mapleleaf viburnum
 MPE Northern Bayberry
 CSE Red Twig Dogwood
 DGR Slender Deutzia
 CAL Summersweet
 ITV Virginia Sweetspire
 MCE Wax Myrtle

- NOTES:**
 1. SEE SHEET L-1415 FOR LANDSCAPE DETAILS AND NOTES
 2. SEE SHEET L-1415 FOR FULL PLANT SCHEDULE
 3. SEE SHEET TP-1416 THROUGH 1431 FOR TREE PRESERVATION PLANS AND DETAILS

WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS 90% DESIGN PHASE



CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

REVISIONS	DATE	DESCRIPTION

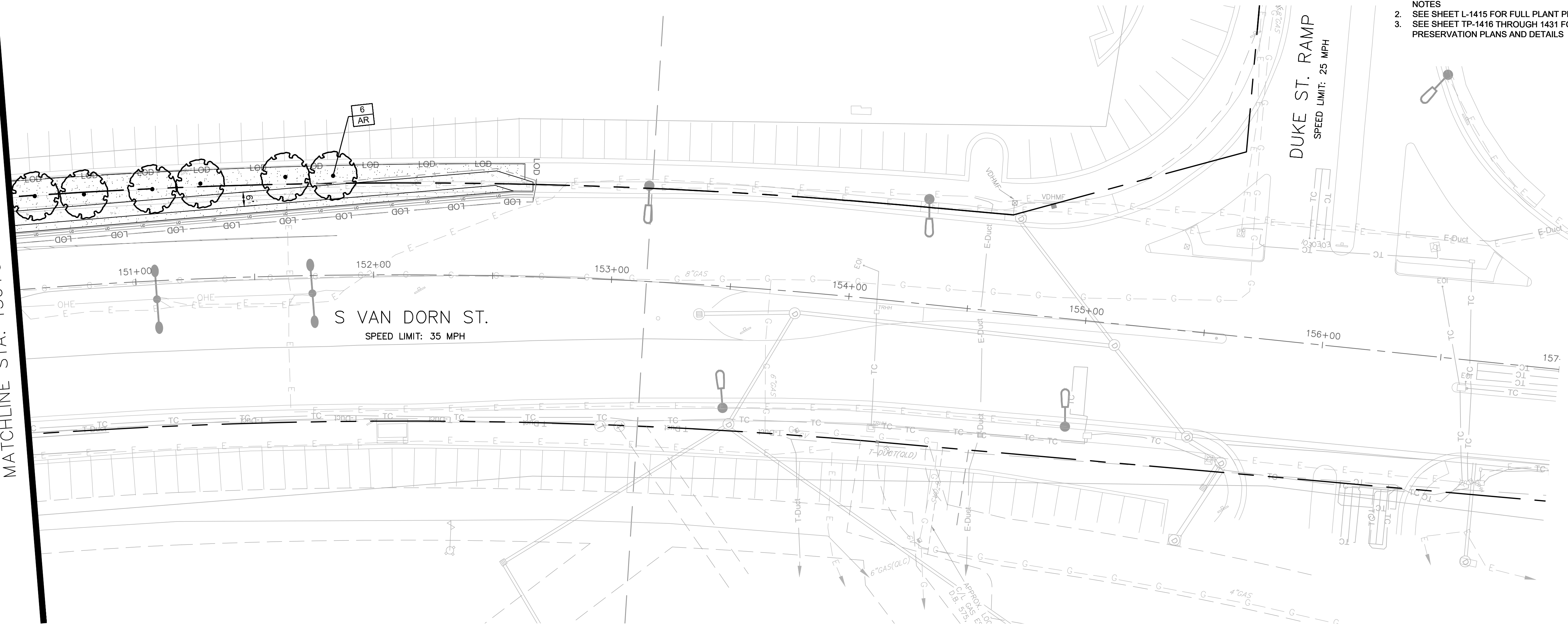
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 DRAWN BY: VALUE DATE: 4/2/24
 CHECKED BY: VALUE DATE: 4/2/24
 APPROVED BY: VALUE DATE: 4/2/24

LANDSCAPE PLAN

SHEET
 L-1404
 SCALE 1" = 25'

Plotted By: Barrazo, Beverly Sheet Set: West End Transitway - Phase 1 Layout: L-1405 July 12, 2024 11:22:04am \\kimsley-horn.com\AT_NVA2\NVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\LANDSCAPE_PLAN_VAN_DORN.dwg

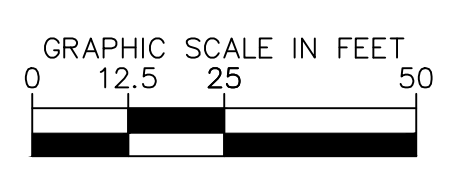
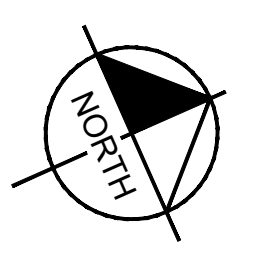
MATCHLINE STA. 150+50 SEE SHEET L-1404



PLANT SCHEDULE

CODE	COMMON NAME
CANOPY TREES	
UA	American Elm
PO	American Sycamore
LS	Fruitless Sweetgum
AR	Red Maple
LT	Tulip Poplar
QH	Willow Oak
UNDERSTORY TREES	
CA	American Hornbeam
CC	Eastern Redbud
CF	Flowering Dogwood
MV	Sweetbay Magnolia
CV	White Fringetree
SHRUBS	
AME	Black Chokeberry
ABG	Glossy Abelia
IGL	Inkberry Holly
VAC	Mapleleaf viburnum
MPE	Northern Bayberry
CSE	Red Twig Dogwood
DGR	Slender Deutzia
CAL	Summersweet
ITV	Virginia Sweetspire
MCE	Wax Myrtle

- NOTES:**
- SEE SHEET L-1415 FOR LANDSCAPE DETAILS AND NOTES
 - SEE SHEET L-1415 FOR FULL PLANT SCHEDULE
 - SEE SHEET TP-1416 THROUGH 1431 FOR TREE PRESERVATION PLANS AND DETAILS



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS 90% DESIGN PHASE



CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

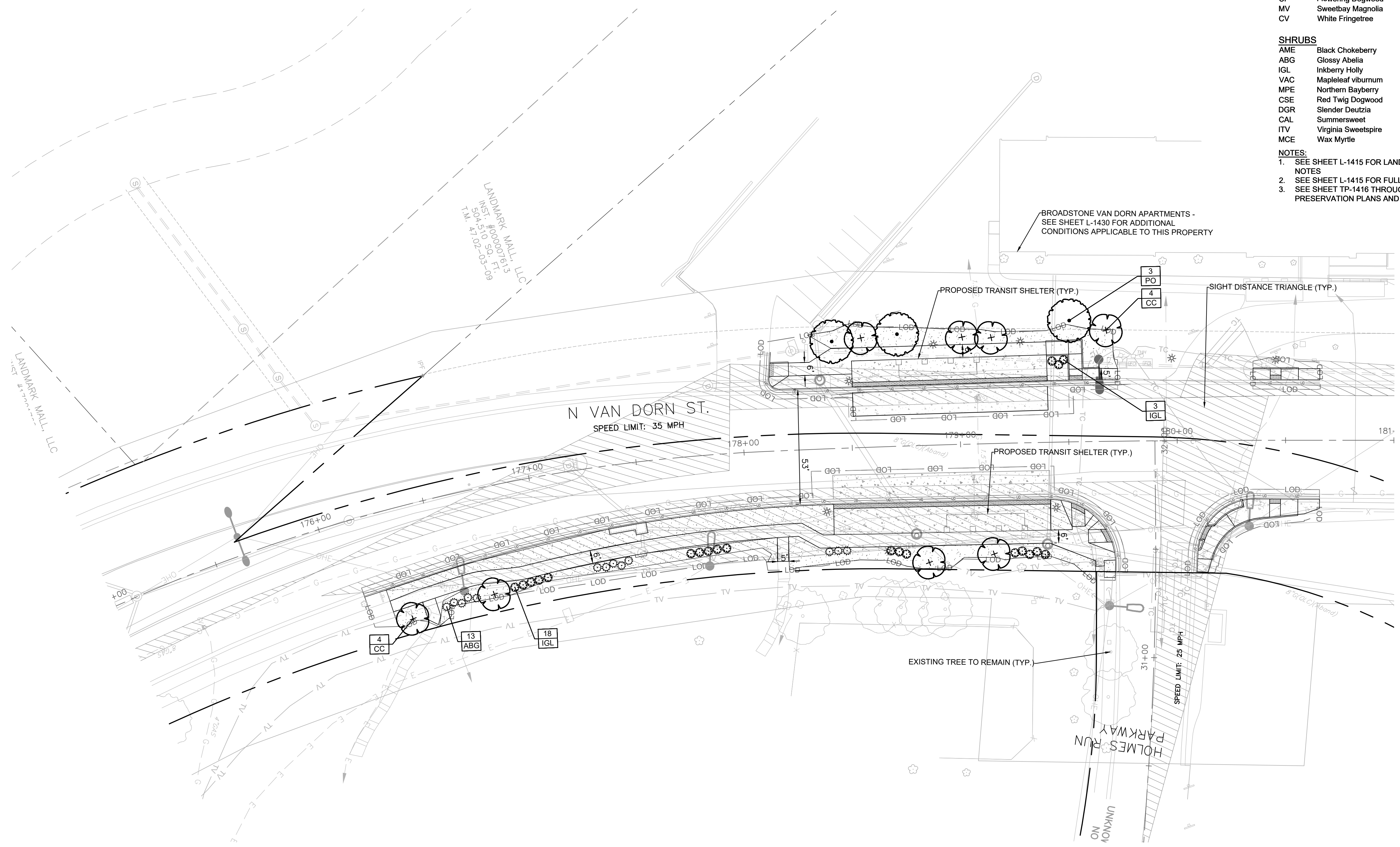
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 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: BRB DATE: 4/2/24
 DRAWN BY: BRB DATE: 4/2/24
 CHECKED BY: KA DATE: 4/2/24
 APPROVED BY: DATE: 4/2/24

LANDSCAPE PLAN

SHEET
 L-1405
 SCALE 1" = 25'

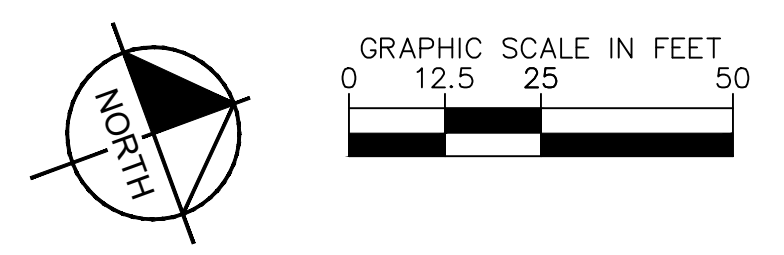
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PLANT SCHEDULE

CODE	COMMON NAME
CANOPY TREES	
UA	American Elm
PO	American Sycamore
LS	Fruitless Sweetgum
AR	Red Maple
LT	Tulip Poplar
QH	Willow Oak
UNDERSTORY TREES	
CA	American Hornbeam
CC	Eastern Redbud
CF	Flowering Dogwood
MV	Sweetbay Magnolia
CV	White Fringetree
SHRUBS	
AME	Black Chokeberry
ABG	Glossy Abelia
IGL	Inkberry Holly
VAC	Mapleleaf viburnum
MPE	Northern Bayberry
CSE	Red Twig Dogwood
DGR	Slender Deutzia
CAL	Summersweet
ITV	Virginia Sweetspire
MCE	Wax Myrtle

- NOTES:**
- SEE SHEET L-1415 FOR LANDSCAPE DETAILS AND NOTES
 - SEE SHEET L-1415 FOR FULL PLANT SCHEDULE
 - SEE SHEET TP-1416 THROUGH 1431 FOR TREE PRESERVATION PLANS AND DETAILS



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS 90% DESIGN PHASE



CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

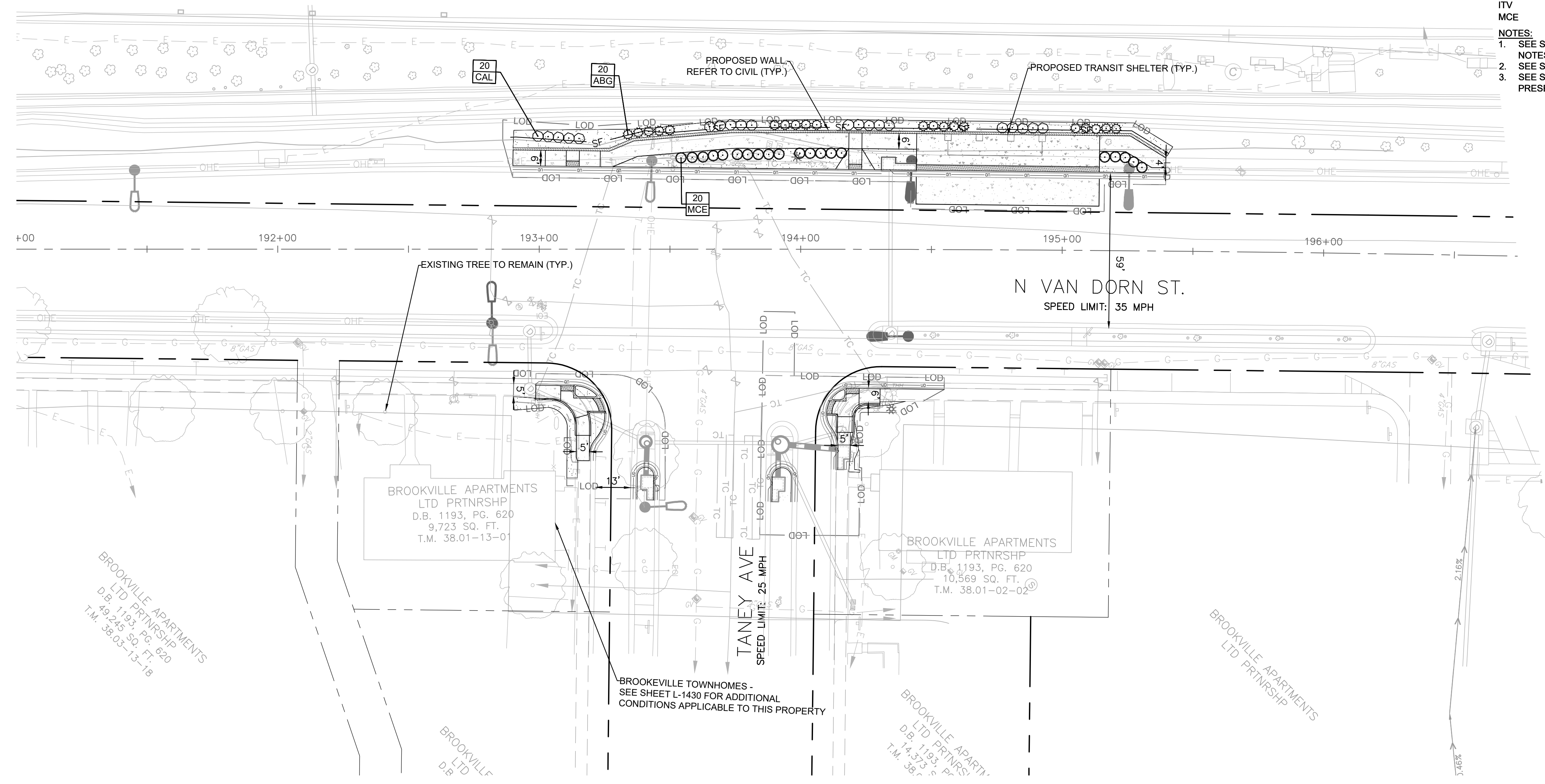
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 DRAWN BY: BRB DATE: 4/2/24
 CHECKED BY: KA DATE: 4/2/24
 APPROVED BY: DATE: 4/2/24

LANDSCAPE PLAN

 SHEET
 L-1406
 SCALE 1" = 25'

Plotted By: Barrazo, Beverly Sheet Set: West End Transitway - Phase 1 Layout: L-1407 July 12, 2024 11:22:41am \\wimley-horn.com\AT_NVA2\NVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\LANDSCAPE PLAN VAN DORN.dwg



PLANT SCHEDULE

CODE COMMON NAME

CANOPY TREES
 UA American Elm
 PO American Sycamore
 LS Fruitless Sweetgum
 AR Red Maple
 LT Tulip Poplar
 QH Willow Oak

UNDERSTORY TREES
 CA American Hornbeam
 CC Eastern Redbud
 CF Flowering Dogwood
 MV Sweetbay Magnolia
 CV White Fringetree

SHRUBS
 AME Black Chokeberry
 ABG Glossy Abelia
 IGL Inkberry Holly
 VAC Mapleleaf viburnum
 MPE Northern Bayberry
 CSE Red Twig Dogwood
 DGR Slender Deutzia
 CAL Summersweet
 ITV Virginia Sweetspire
 MCE Wax Myrtle

NOTES:
 1. SEE SHEET L-1415 FOR LANDSCAPE DETAILS AND NOTES
 2. SEE SHEET L-1415 FOR FULL PLANT SCHEDULE
 3. SEE SHEET TP-1416 THROUGH 1431 FOR TREE PRESERVATION PLANS AND DETAILS

WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS 90% DESIGN PHASE



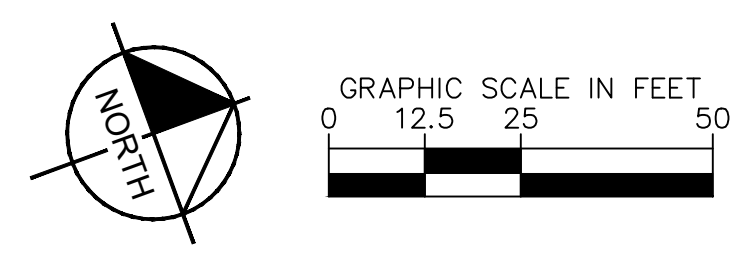
CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

REVISIONS	DESCRIPTION
DATE	BY

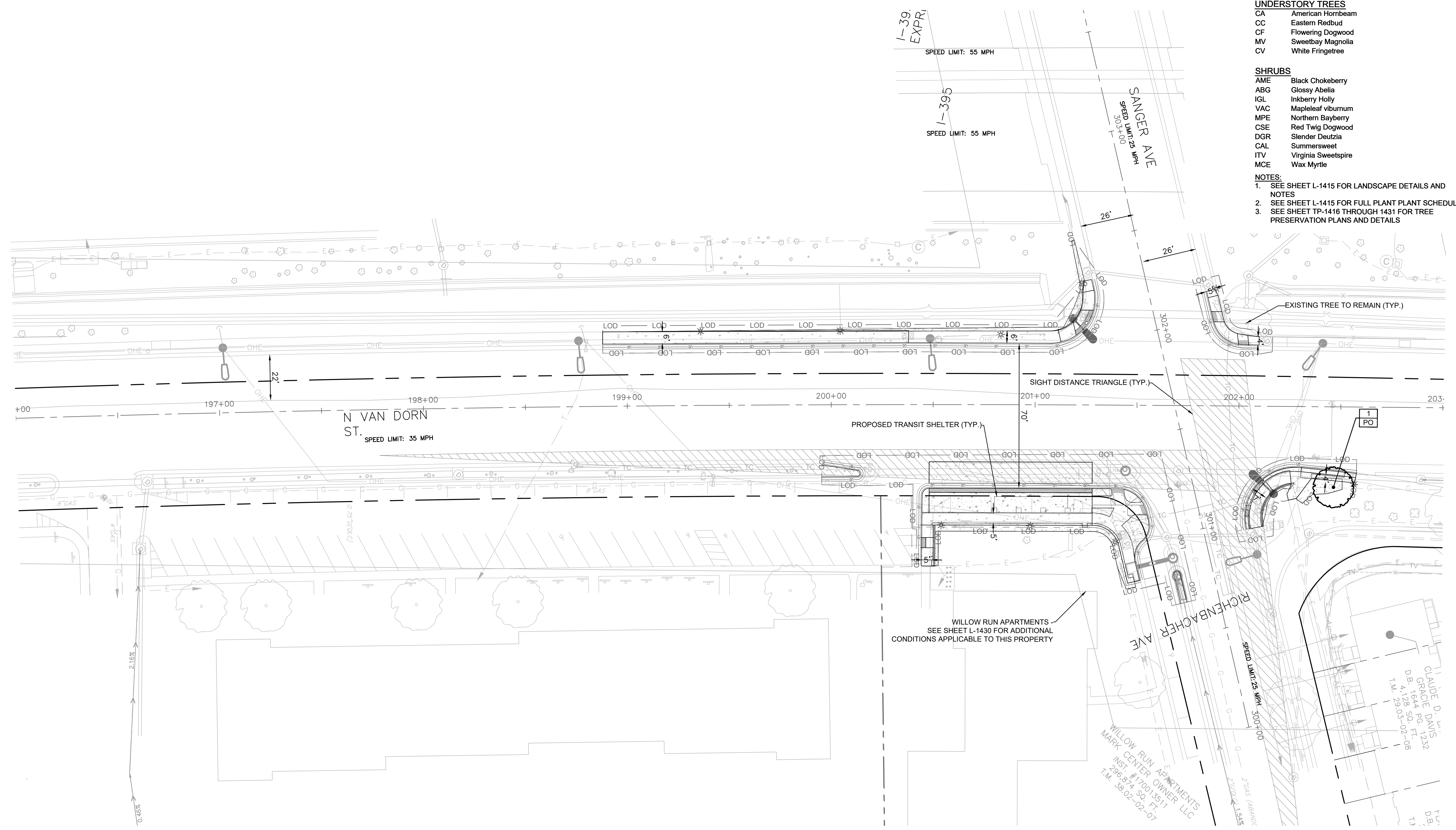
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DESIGNED BY:	BRB DATE: 4/2/24
DRAWN BY:	BRB DATE: 4/2/24
CHECKED BY:	KA DATE: 4/2/24
APPROVED BY:	DATE: 4/2/24

LANDSCAPE PLAN

SHEET
 L-1407
 SCALE 1" = 25'



Plotted By: Barraco, Beverly Sheet Set: West End Transitway - Phase 1 Layout: L-1408 July 12, 2024 11:23:01am \\wimley-horn.com\AT_NVA2\NVA_Transit\110104122_West_End_Transitway_Design\CADD\PlanSheets\LANDSCAPE_PLAN_VAN_DORN.dwg



PLANT SCHEDULE

CODE COMMON NAME

CANOPY TREES

- UA American Elm
- PO American Sycamore
- LS Fruitless Sweetgum
- AR Red Maple
- LT Tulip Poplar
- QH Willow Oak

UNDERSTORY TREES

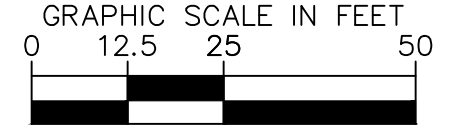
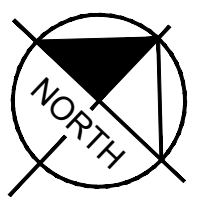
- CA American Hornbeam
- CC Eastern Redbud
- CF Flowering Dogwood
- MV Sweetbay Magnolia
- CV White Fringetree

SHRUBS

- AME Black Chokeberry
- ABG Glossy Abelia
- IGL Inkberry Holly
- VAC Mapleleaf viburnum
- MPE Northern Bayberry
- CSE Red Twig Dogwood
- DGR Slender Deutzia
- CAL Summersweet
- ITV Virginia Sweetspire
- MCE Wax Myrtle

NOTES:

1. SEE SHEET L-1415 FOR LANDSCAPE DETAILS AND NOTES
2. SEE SHEET L-1415 FOR FULL PLANT SCHEDULE
3. SEE SHEET TP-1416 THROUGH 1431 FOR TREE PRESERVATION PLANS AND DETAILS



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE



CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

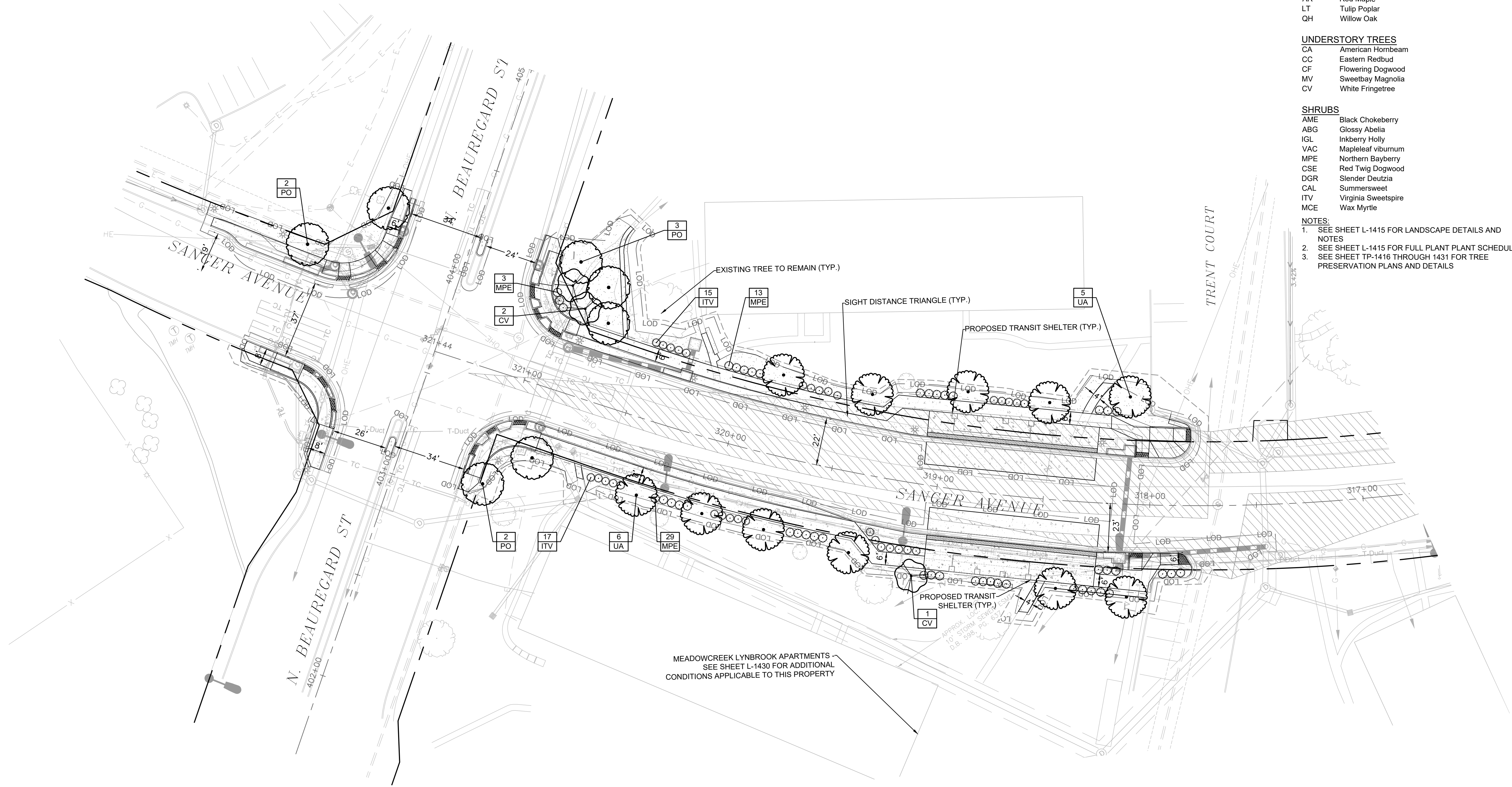
REVISIONS	DESCRIPTION
DATE	BY

LANDSCAPE PLAN

SHEET
 L-1408
 SCALE 1" = 25'

ALEXANDRIA PROJECT NO.: 110104122
 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: BRB DATE: 4/2/24
 DRAWN BY: BRB DATE: 4/2/24
 CHECKED BY: KA DATE: 4/2/24
 APPROVED BY: DATE: 4/2/24

Plotted By: Sadr, Nasima Sheet Set: West End Transitway - Phase 1 Layout: Model July 27, 2023 11:27:37am K:\NVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\ROADWAY_PLAN.dwg



PLANT SCHEDULE

CODE COMMON NAME

CANOPY TREES

- UA American Elm
- PO American Sycamore
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- AR Red Maple
- LT Tulip Poplar
- QH Willow Oak

UNDERSTORY TREES

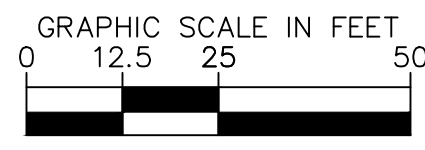
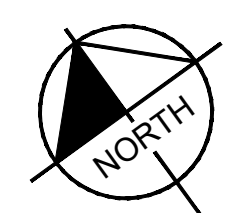
- CA American Hornbeam
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- CV White Fringetree

SHRUBS

- AME Black Chokeberry
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- MPE Northern Bayberry
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- DGR Slender Deutzia
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NOTES:

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3. SEE SHEET TP-1416 THROUGH 1431 FOR TREE PRESERVATION PLANS AND DETAILS



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

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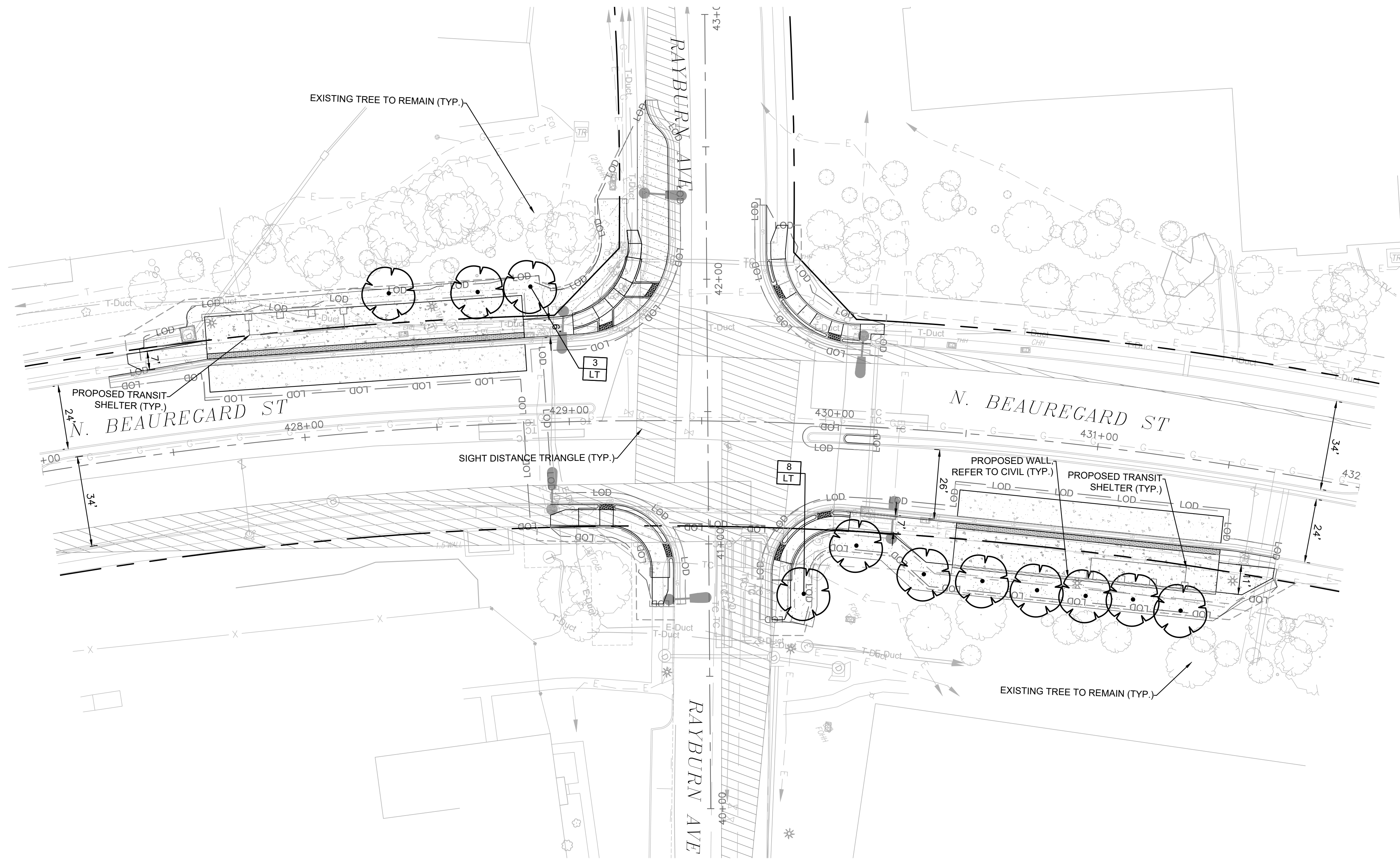
LANDSCAPE PLAN

SHEET
 L-1409
 SCALE 1" = 25'



CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

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PLANT SCHEDULE

CODE COMMON NAME

CANOPY TREES

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- PO American Sycamore
- LS Fruitless Sweetgum
- AR Red Maple
- LT Tulip Poplar
- QH Willow Oak

UNDERSTORY TREES

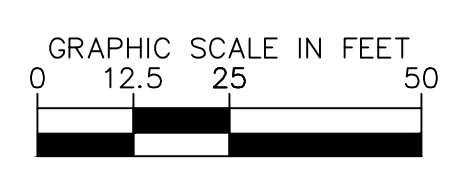
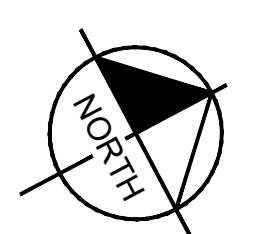
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- CV White Fringetree

SHRUBS

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- MPE Northern Bayberry
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- DGR Slender Deutzia
- CAL Summersweet
- ITV Virginia Sweetspire
- MCE Wax Myrtle

NOTES

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WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

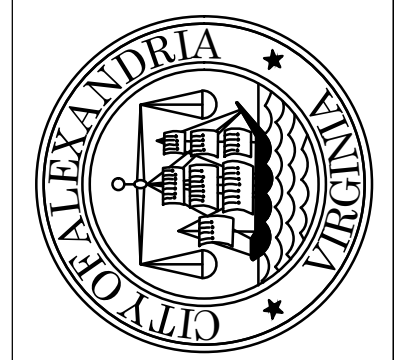
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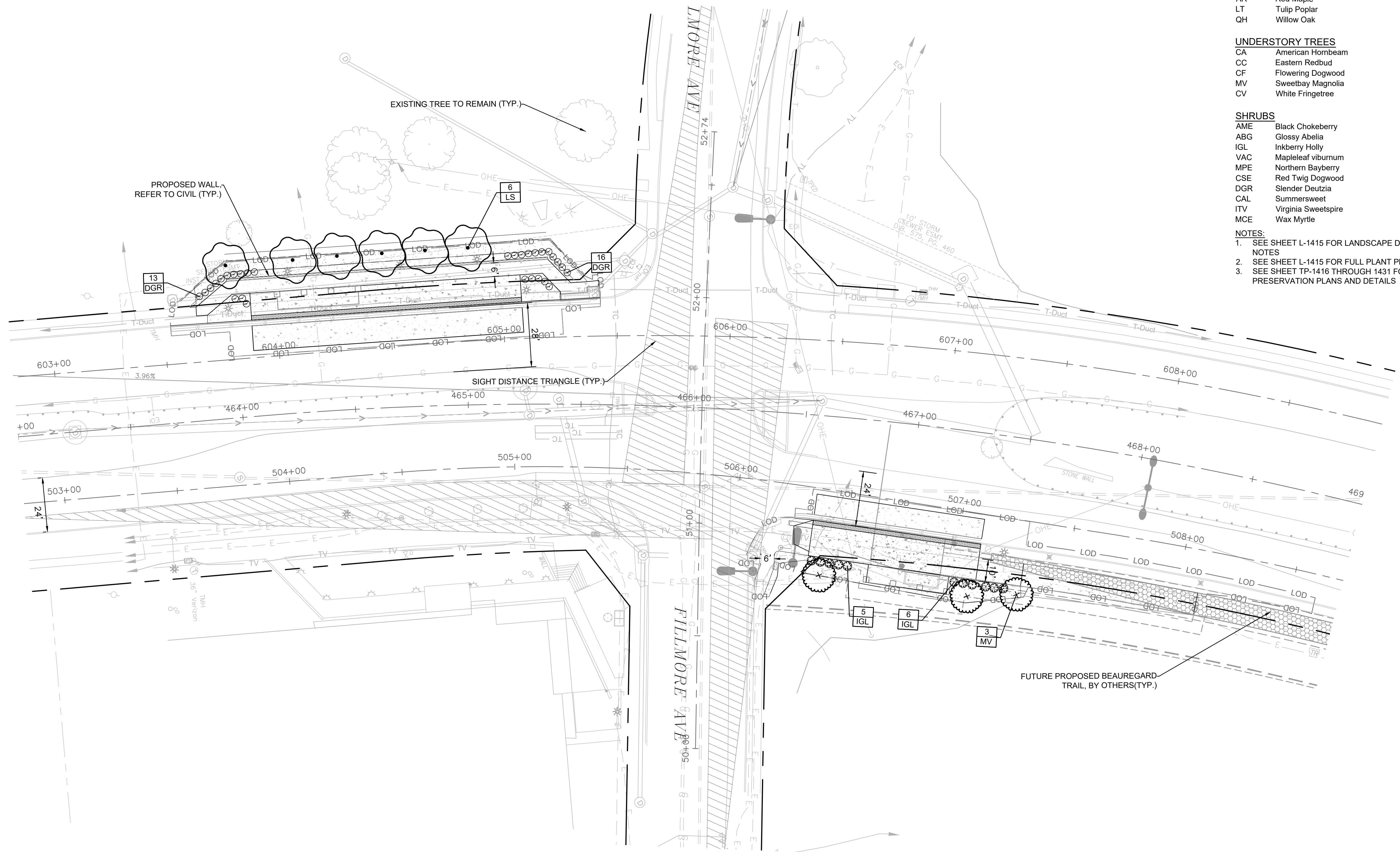
LANDSCAPE PLAN

SHEET
 L-1411
 SCALE 1" = 25'



CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

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PLANT SCHEDULE

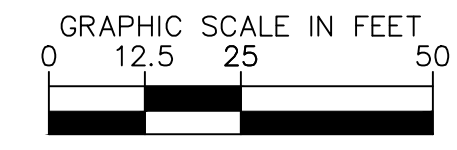
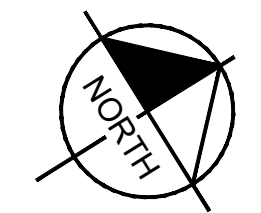
CODE COMMON NAME

CANOPY TREES
 UA American Elm
 PO American Sycamore
 LS Fruitless Sweetgum
 AR Red Maple
 LT Tulip Poplar
 QH Willow Oak

UNDERSTORY TREES
 CA American Hornbeam
 CC Eastern Redbud
 CF Flowering Dogwood
 MV Sweetbay Magnolia
 CV White Fringetree

SHRUBS
 AME Black Chokeberry
 ABG Glossy Abelia
 IGL Inkberry Holly
 VAC Mapleleaf viburnum
 MPE Northern Bayberry
 CSE Red Twig Dogwood
 DGR Slender Deutzia
 CAL Summersweet
 ITV Virginia Sweetspire
 MCE Wax Myrtle

- NOTES:**
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 3. SEE SHEET TP-1416 THROUGH 1431 FOR TREE PRESERVATION PLANS AND DETAILS



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

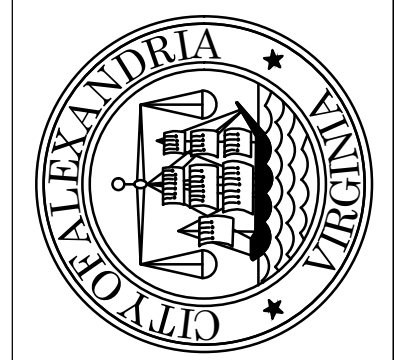
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LANDSCAPE PLAN

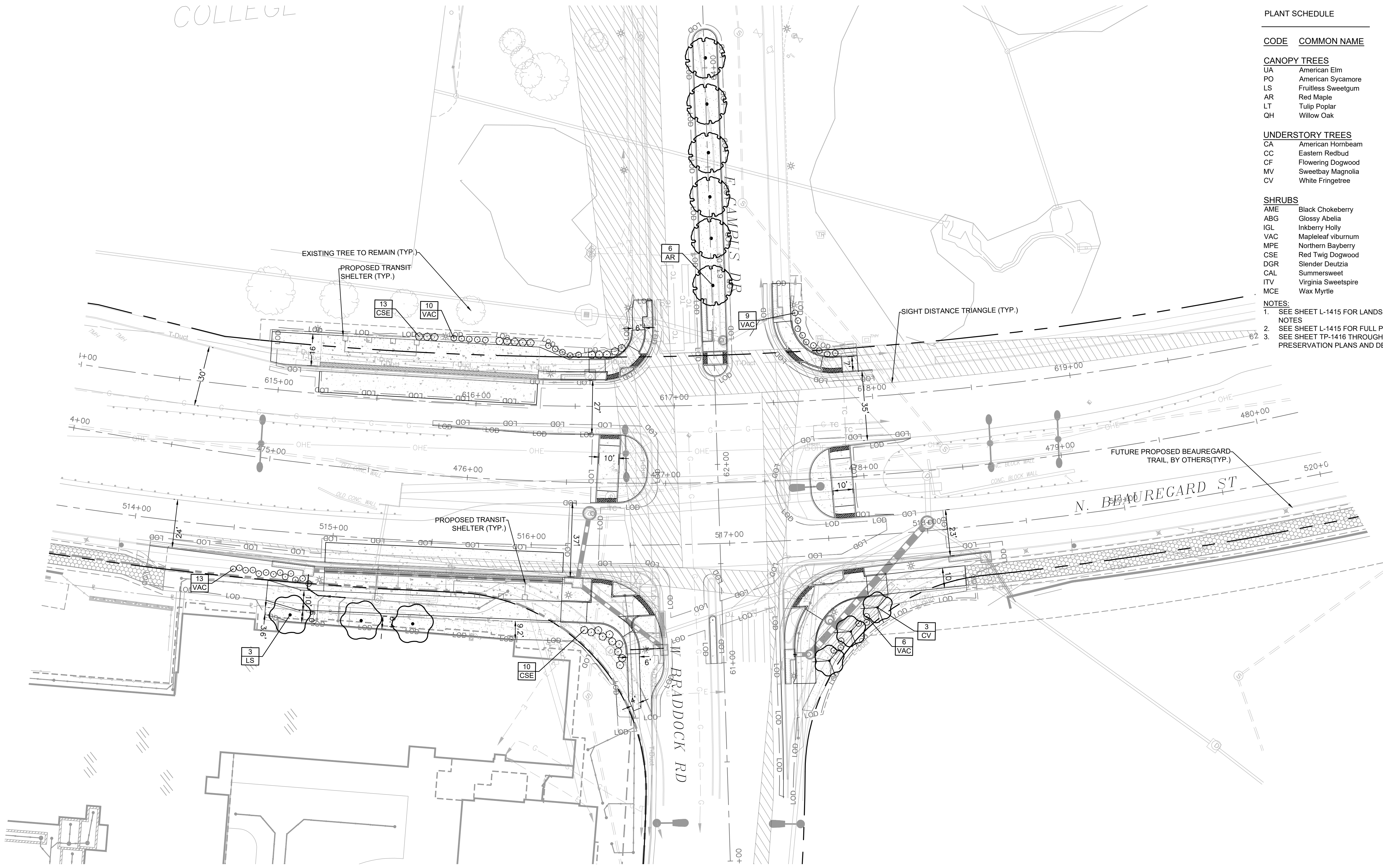
SHEET
 L-1412
 SCALE 1" = 25'



CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
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 ALEXANDRIA, VIRGINIA 22313

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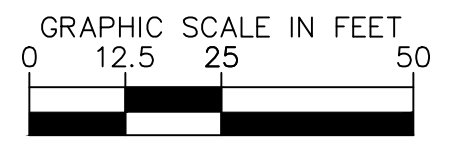
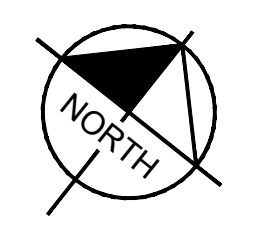
COLLEGE



PLANT SCHEDULE

CODE	COMMON NAME
CANOPY TREES	
UA	American Elm
PO	American Sycamore
LS	Fruitless Sweetgum
AR	Red Maple
LT	Tulip Poplar
QH	Willow Oak
UNDERSTORY TREES	
CA	American Hornbeam
CC	Eastern Redbud
CF	Flowering Dogwood
MV	Sweetbay Magnolia
CV	White Fringetree
SHRUBS	
AME	Black Chokeberry
ABG	Glossy Abelia
IGL	Inkberry Holly
VAC	Mapleleaf viburnum
MPE	Northern Bayberry
CSE	Red Twig Dogwood
DGR	Slender Deutzia
CAL	Summersweet
ITV	Virginia Sweetspire
MCE	Wax Myrtle

- NOTES:**
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 - SEE SHEET L-1415 FOR FULL PLANT SCHEDULE
 - SEE SHEET TP-1416 THROUGH 1431 FOR TREE PRESERVATION PLANS AND DETAILS



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS



CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

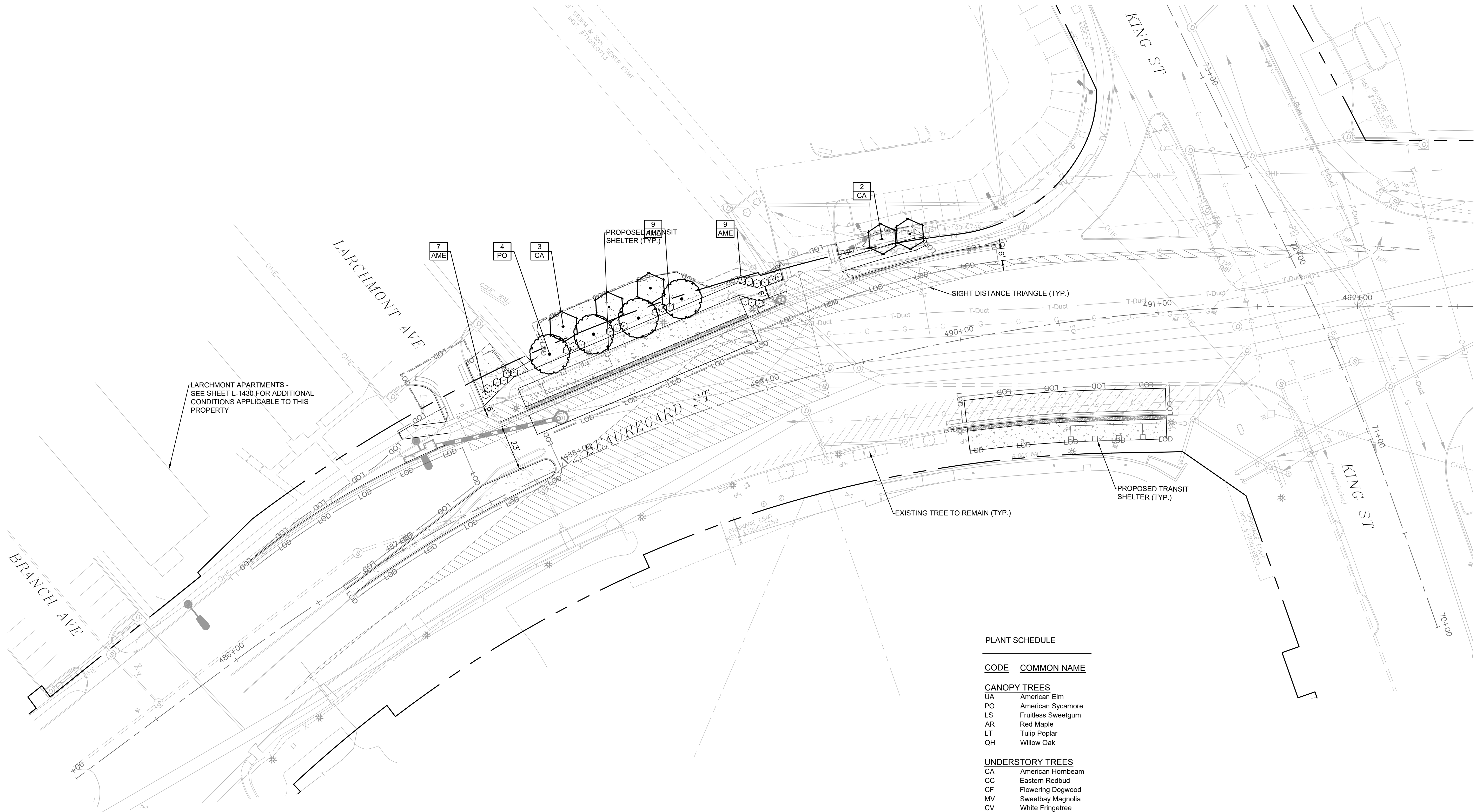
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DATE	BY

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LANDSCAPE PLAN

 SHEET
 L-1413
 SCALE 1" = 25'

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LARCHMONT APARTMENTS -
SEE SHEET L-1430 FOR ADDITIONAL
CONDITIONS APPLICABLE TO THIS
PROPERTY

PLANT SCHEDULE

CODE COMMON NAME

CANOPY TREES

- UA American Elm
- PO American Sycamore
- LS Fruitless Sweetgum
- AR Red Maple
- LT Tulip Poplar
- QH Willow Oak

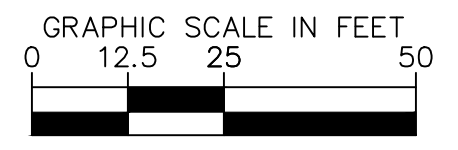
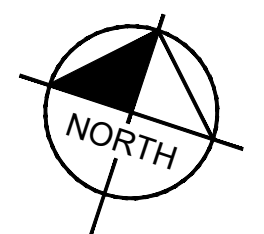
UNDERSTORY TREES

- CA American Hornbeam
- CC Eastern Redbud
- CF Flowering Dogwood
- MV Sweetbay Magnolia
- CV White Fringetree

SHRUBS

- AME Black Chokeberry
- ABG Glossy Abelia
- IGL Inkberry Holly
- VAC Mapleleaf viburnum
- MPE Northern Bayberry
- CSE Red Twig Dogwood
- DGR Slender Deutzia
- CAL Summersweet
- ITV Virginia Sweetspire
- MCE Wax Myrtle

- NOTES:**
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WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

REVISIONS	DATE	DESCRIPTION

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LANDSCAPE PLAN

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L-1414
SCALE 1" = 25'

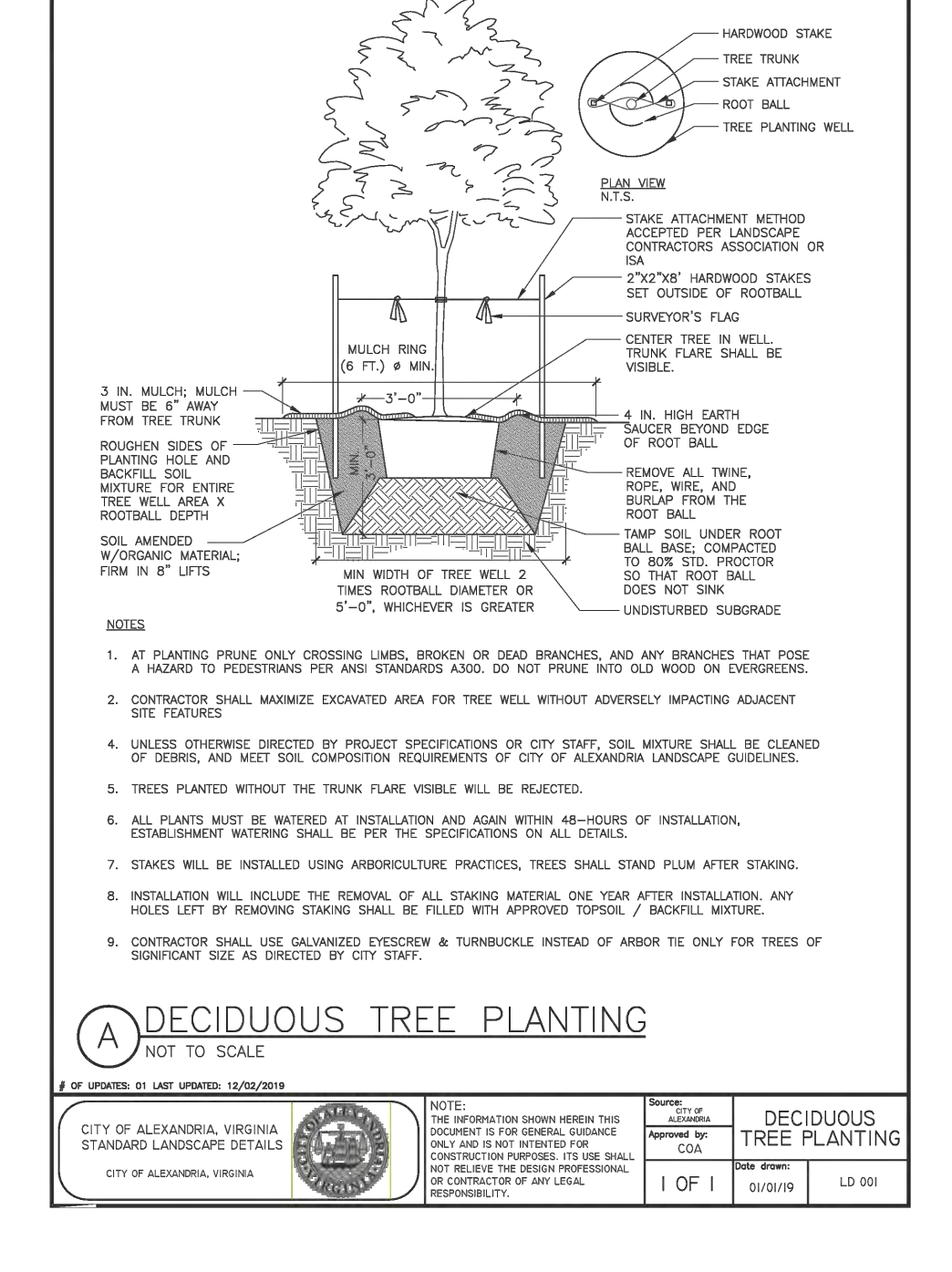
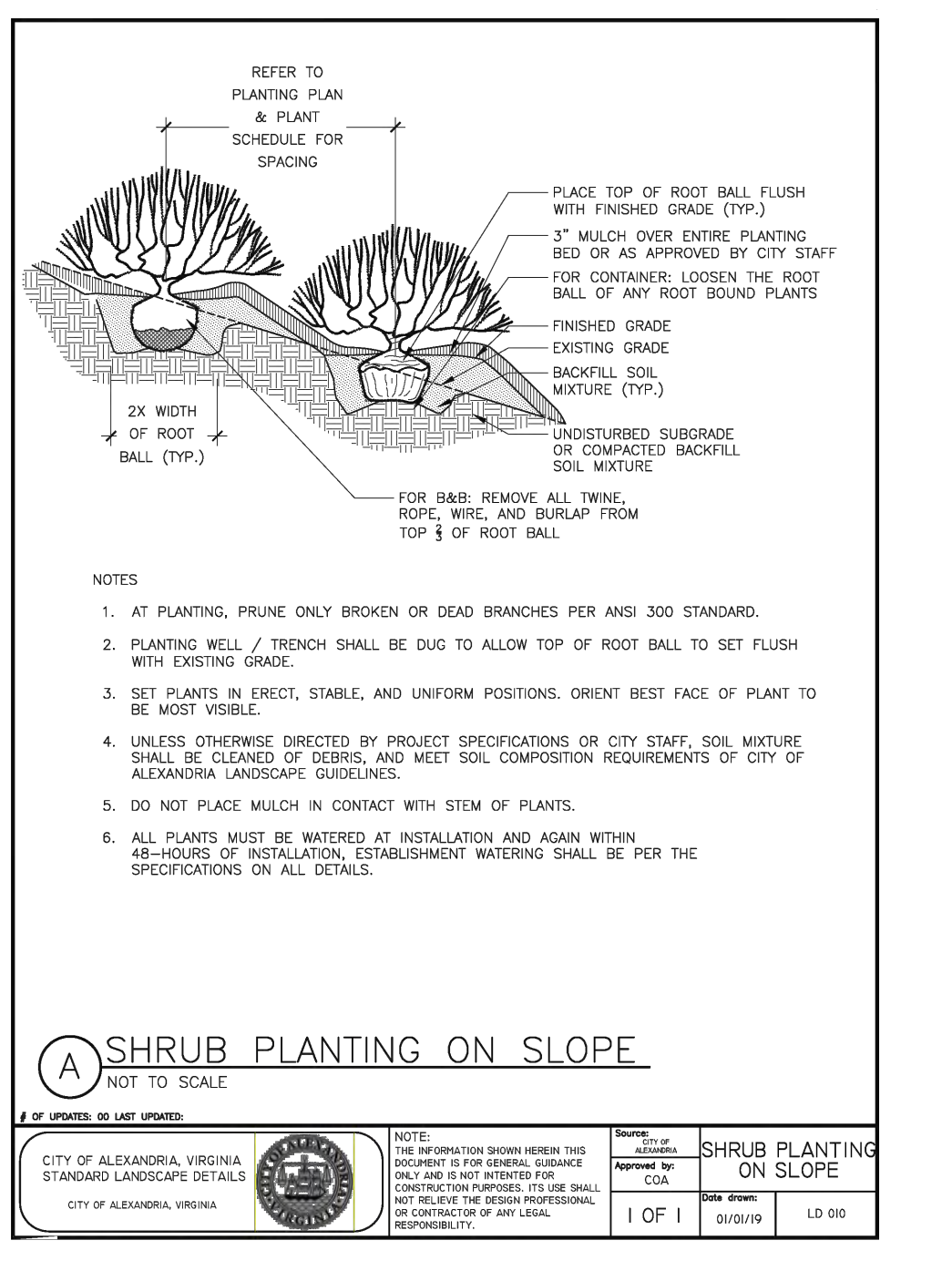
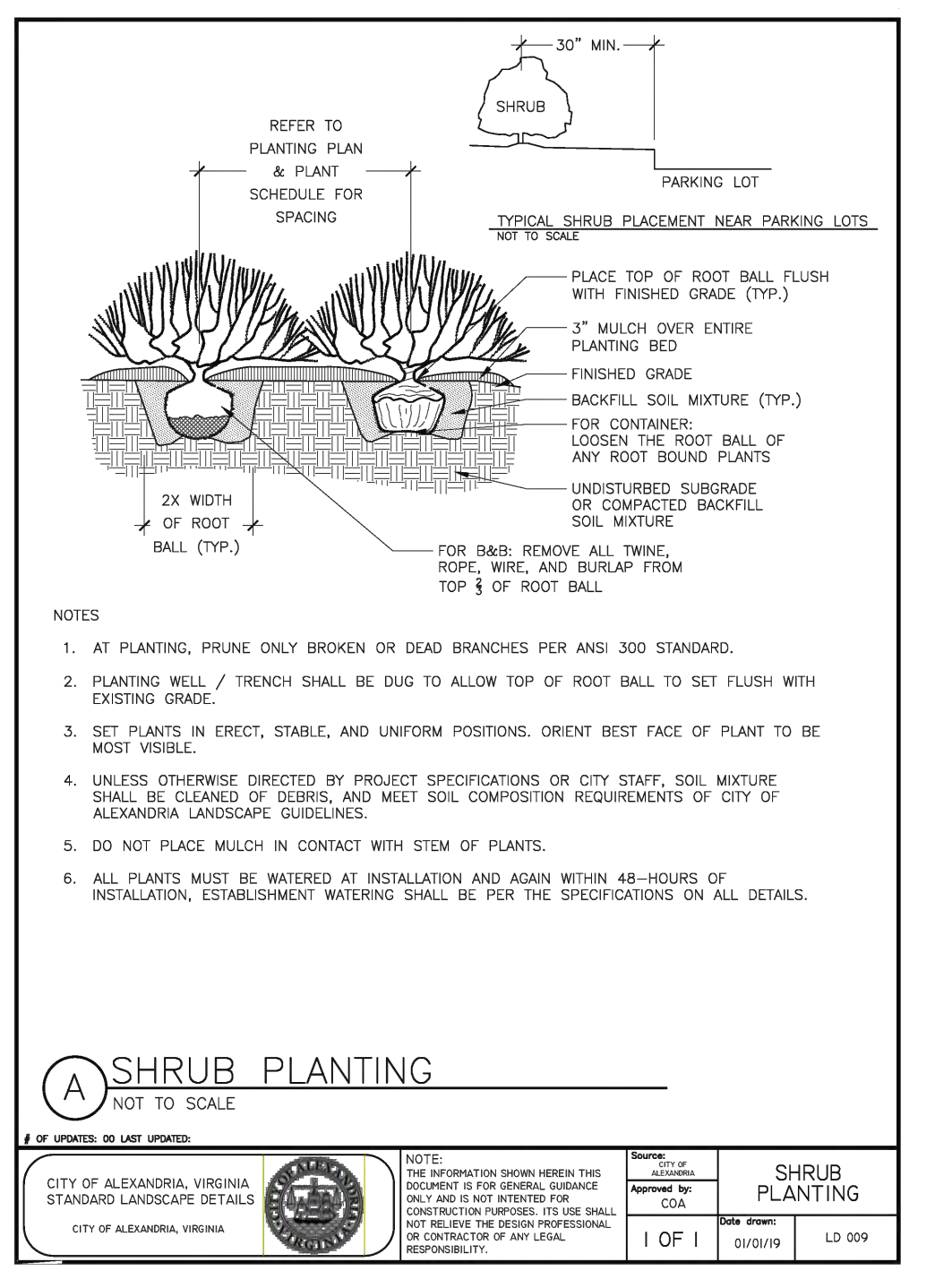
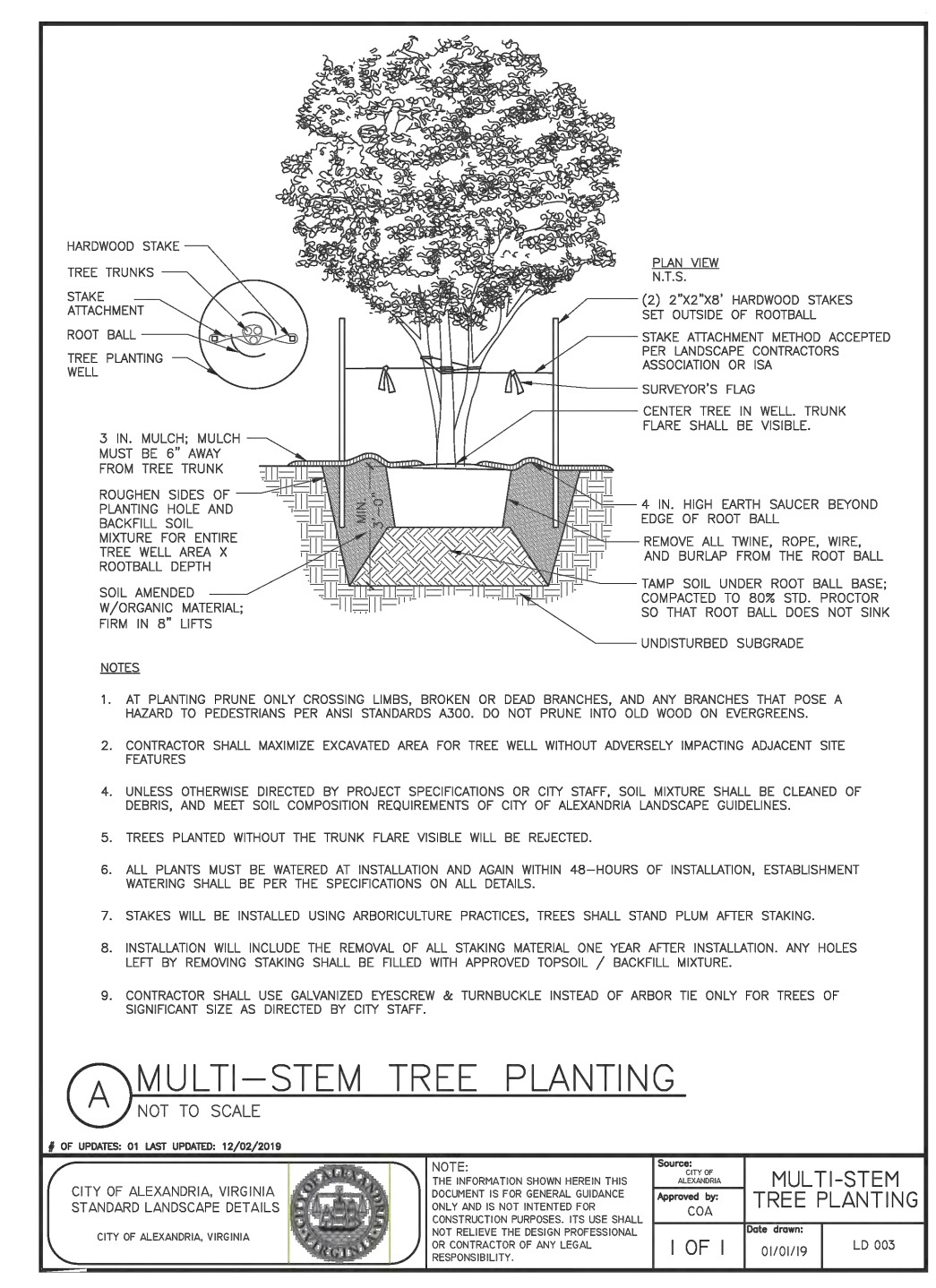
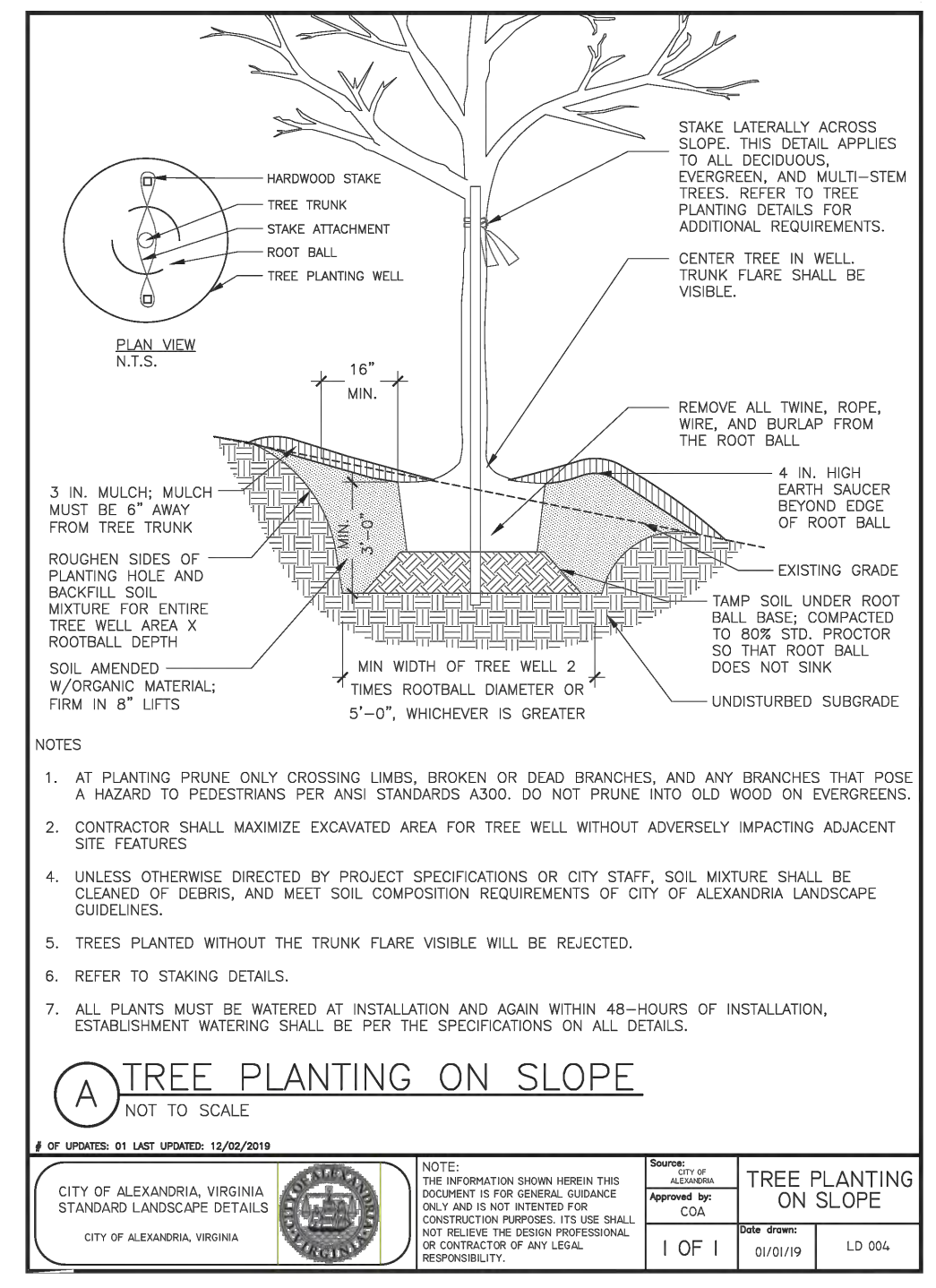


CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

PLANT SCHEDULE

CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	CAL / HT
CANOPY TREES					
AR	13	Acer rubrum	Red Maple	B & B	3"Cal
LS	9	Liquidambar styraciflua 'Rotundiloba'	Fruitless Sweetgum	B & B	3"Cal
LT	11	Liriodendron tulipifera	Tulip Poplar	B & B	3"Cal
PO	15	Platanus occidentalis	American Sycamore	B & B	3"Cal
QH	8	Quercus phellos	Willow Oak	B & B	3"Cal
UA	11	Ulmus americana	American Elm	B & B	3"Cal
UNDERSTORY TREES					
CA	5	Carpinus caroliniana	American Hornbeam	B & B	2"Cal
CC	8	Cercis canadensis	Eastern Redbud	B & B	2"Cal
CV	6	Chionanthus virginicus	White Fringetree	B & B	2"Cal
CF	6	Cornus florida	Flowering Dogwood	B & B	2"Cal
MV	3	Magnolia virginiana	Sweetbay Magnolia	B & B	2"Cal

CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	HEIGHT
SHRUBS					
ABG	47	Abelia x grandiflora	Glossy Abelia	Cont.	24" HT MIN.
AME	25	Aronia melanocarpa	Black Chokeberry	Cont.	24" HT MIN.
CAL	20	Clethra alnifolia	Summersweet	Cont.	24" HT MIN.
CSE	23	Cornus sericea	Red Twig Dogwood	Cont.	24" HT MIN.
DGR	29	Deutzia gracilis	Slender Deutzia	Cont.	24" HT MIN.
IGL	32	Ilex glabra	Inkberry Holly	Cont.	24" HT MIN.
ITV	32	Itea virginica	Virginia Sweetpire	Cont.	24" HT MIN.
MCE	29	Morella cerifera	Wax Myrtle	Cont.	24" HT MIN.
MPE	45	Myrica pensylvanica	Northern Bayberry	Cont.	24" HT MIN.
VAC	38	Viburnum acerifolium	Mapleleaf viburnum	Cont.	24" HT MIN.



A) STANDARD LANDSCAPE PLAN NOTES FOR ALL PLANS REQUIRING APPROVAL:

THE FOLLOWING NOTES SHALL BE PROVIDED ON LANDSCAPE PLAN SUBMISSIONS FOR ALL PROJECTS THAT REQUIRE APPROVAL BY THE CITY AS OUTLINED IN CHAPTER 3 OF THE CITY'S 2019 LANDSCAPE GUIDELINES:

- 1) THE PROPERTY OWNER AND/OR APPLICANT, SPECIFIC CONTRACTOR AND INSTALLER OF PLANT MATERIAL, ARE RESPONSIBLE FOR UNDERSTANDING AND ADHERING TO THE STANDARD SET FORTH IN THE MOST RECENT VERSION OF THE CITY OF ALEXANDRIA LANDSCAPE GUIDELINES AND APPLICABLE CONDITIONS OF APPROVAL. ALL QUESTIONS REGARDING APPLICATION OF, OR ADHERENCE TO, THE STANDARDS AND/OR CONDITIONS OF APPROVAL SHALL BE DIRECTED TO THE CITY PRIOR TO COMMENCEMENT OF DEMOLITION, CONSTRUCTION, OR ANY LAND DISTURBING ACTIVITY.
- 2) THE CITY-APPROVED LANDSCAPE PLAN SUBMISSION, INCLUDING PLANT SCHEDULE, NOTES AND DETAILS SHALL BE THE DOCUMENT USED FOR INSTALLATION PURPOSES AND ALL PROCEDURES SET FORTH IN THE LANDSCAPE GUIDELINES MUST BE FOLLOWED.
- 3) THE CONTRACTOR SHALL NOT INTERFERE WITH ANY TREE PROTECTION MEASURES OF IMPACT ANY EXISTING VEGETATION IDENTIFIED TO BE PRESERVED FOR THE APPROVED TREE AND VEGETATION PROTECTION PLAN. ANY CHANGES, ALTERATIONS OR MODIFICATIONS TO THE SITE CONDITIONS THAT AFFECT VEGETATION PROTECTION ZONES WILL REQUIRE AN AMENDMENT TO THE APPROVED TREE AND VEGETATION PROTECTION PLAN AND/OR DETAILS.
- 3) INSTALLATION OF PLANT MATERIAL MAY ONLY OCCUR DURING THE PLANTING SEASONS IDENTIFIED IN THE LANDSCAPE GUIDELINES.
- 6) IN LEU OF MORE STRINGENT SPECIFICATIONS, ALL LANDSCAPE RELATED WORK SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE CURRENT AND MOST UP-TO-DATE EDITION (AT THE TIME OF CONSTRUCTION) OF LANDSCAPE SPECIFICATION GUIDELINES AS PRODUCED BY THE LANDSCAPE CONTRACTORS ASSOCIATION OF MARYLAND, DISTRICT OF COLUMBIA AND VIRGINIA, GAITHERSBURG, MARYLAND.
- 7) SUBSTITUTIONS TO THE APPROVED PLANT MATERIAL SHALL NOT OCCUR UNTIL WRITTEN APPROVAL IS PROVIDED BY THE CITY.
- 8) MAINTENANCE FOR THIS PROJECT SHALL BE PERFORMED BY THE OWNER, APPLICANT, SUCCESSOR(S) AND/OR ASSIGNED IN PERPETUITY AND IN COMPLIANCE WITH CITY OF ALEXANDRIA LANDSCAPE GUIDELINES AND AS CONTAINED BY PROJECT APPROVAL, AS APPLICABLE.

B) STANDARD LANDSCAPE PLAN NOTES FOR DEVELOPMENT SITE PLANS:

IN ADDITION TO THE NOTES PROVIDED ABOVE, THE FOLLOWING NOTES SHALL BE PROVIDED ON LANDSCAPE PLAN SUBMISSIONS FOR ALL OSP/OSP PROJECTS:

- 1) THE APPROVED METHOD(S) OF PROTECTION MUST BE IN PLACE FOR ALL VEGETATION TO BE PRESERVED ON-SITE AND ADJACENT TO THE PROJECT SITE PURSUANT TO THE APPROVED TREE AND VEGETATION PROTECTION PLAN AND DETAILS PRIOR TO COMMENCEMENT OF DEMOLITION, CONSTRUCTION, OR ANY LAND DISTURBANCE. THE APPLICANT SHALL NOTIFY THE PLANNING & ZONING (PAZ) PROJECT MANAGER ONCE THE TREE PROTECTION MEASURES ARE IN PLACE. NO DEMOLITION, CONSTRUCTION, OR LAND DISTURBANCE MAY OCCUR UNTIL AN INSPECTION IS PERFORMED BY THE CITY AND WRITTEN CONFIRMATION IS PROVIDED BY THE CITY WHICH VERIFIES CORRECT INSTALLATION OF THE TREE PROTECTION MEASURES.
- 2) THE APPLICANT MUST CONTACT THE PAZ PROJECT MANAGER PRIOR TO COMMENCEMENT OF LANDSCAPE INSTALLATION/PLANTING OPERATION TO SCHEDULE A PRE-INSTALLATION MEETING. THE MEETING SHOULD BE HELD BETWEEN THE APPLICANT'S GENERAL CONTRACTOR, LANDSCAPE CONTRACTOR, LANDSCAPE ARCHITECT, THE PAZ PROJECT MANAGER AND THE CITY ARBORIST (AS APPLICABLE) TO REVIEW THE SCOPE OF INSTALLATION PROCEDURES AND PROCESSES BEING AND AFTER INSTALLATION.
- 3) THE FOLLOWING INFORMATION SHALL BE PROVIDED TO THE PAZ PROJECT MANAGER AT LEAST FIVE (5) BUSINESS DAYS PRIOR TO THE LANDSCAPE PRE-INSTALLATION MEETING: 1) A LETTER THAT CERTIFIES THAT THE PROJECT LANDSCAPE ARCHITECT PERFORMED PRE-SELECTION TESTING FOR ALL TREES PROPOSED WITHIN THE PUBLIC RIGHT OF WAY AND ON PUBLIC LAND PRIOR TO INSTALLATION. THIS LETTER MUST BE SIGNED AND SEALED BY THE PROJECT LANDSCAPE ARCHITECT, AND 2) A COPY OF THE SOIL BULK DENSITY TEST REPORT VERIFYING THAT MAXIMUM COMPRESSION RATES ARE MET.
- 4) ALL CONSTRUCTION WASTE SHALL BE REMOVED PRIOR TO PLANTING.
- 5) AS-BUILT DRAWINGS FOR THIS LANDSCAPE AND/OR IRRIGATION/WATER MANAGEMENT SYSTEM WILL BE PROVIDED IN COMPLIANCE WITH CITY OF ALEXANDRIA LANDSCAPE GUIDELINES, THE CITY CODE OF ORDINANCES, AND ALL APPLICABLE PLAN PREPARATION CHECKLISTS. AS-BUILT DRAWINGS SHALL INCLUDE CLEAR IDENTIFICATION OF ALL VARIATION(S) AND CHANGES FROM APPROVED DRAWINGS INCLUDING LOCATION, QUANTITY AND SPECIFICATION OF ALL PROJECT ELEMENTS.
- 6) AREAS OF BARE SOIL WILL NOT BE ACCEPTED. MULCHED AREAS AND PLANTING AREAS SHALL BE WEED FREE UPON ACCEPTANCE OF THE PROJECT BY THE CITY.

A STANDARD LANDSCAPE PLAN NOTES
NOT TO SCALE

OF UPDATES: 01 LAST UPDATED: 12/02/2019

NOTE: THE INFORMATION SHOWN HEREIN THIS DOCUMENT IS FOR GENERAL GUIDANCE ONLY AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES. ITS USE SHALL NOT RELIEVE THE DESIGN PROFESSIONAL OR CONTRACTOR OF ANY LEGAL RESPONSIBILITY.

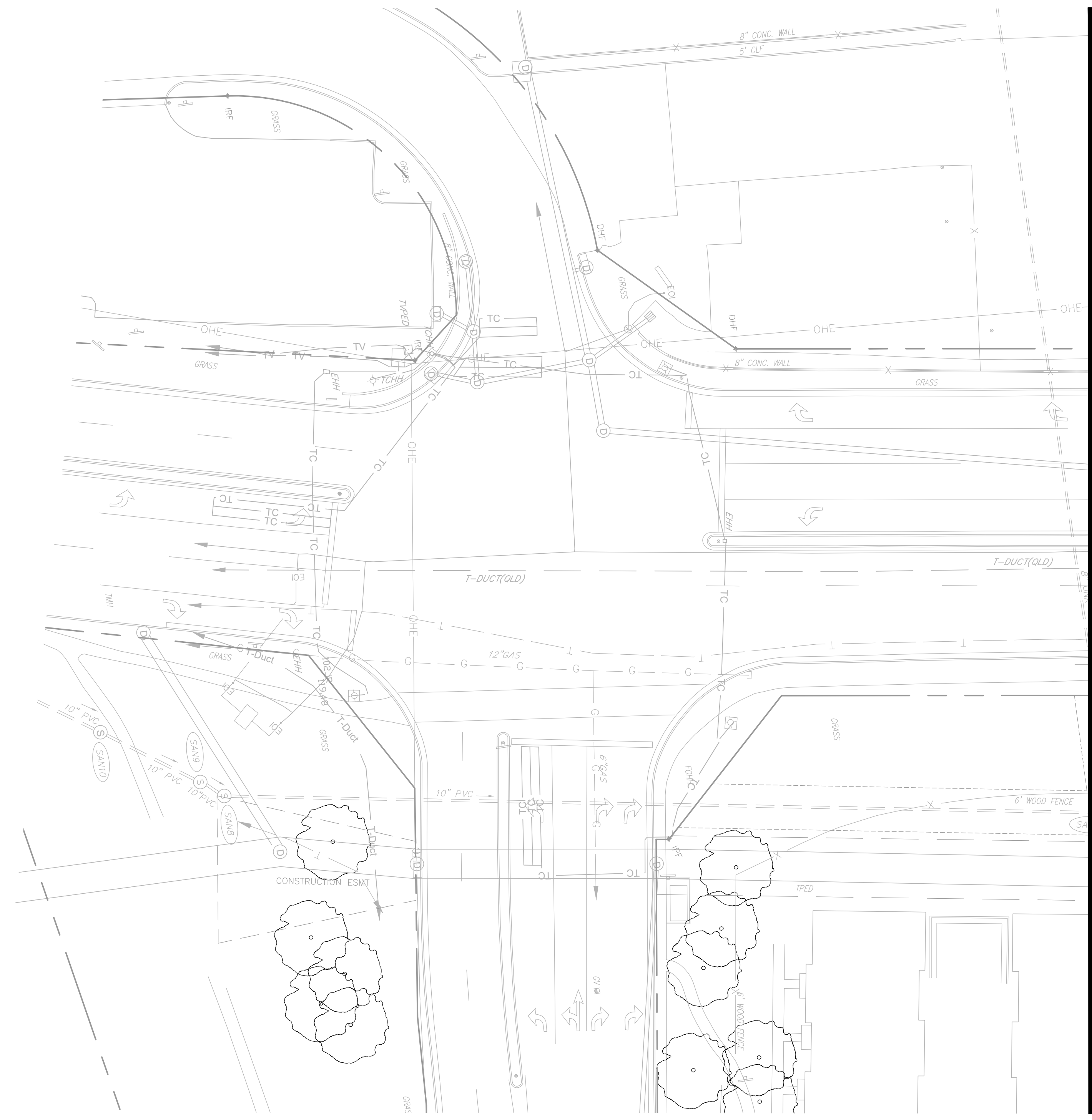
City of Alexandria, Virginia Standard Landscape Details	City of Alexandria, Virginia	Standard Landscape Plan Notes
Approved by: COA	Date Issued: 01/01/19	LD 016



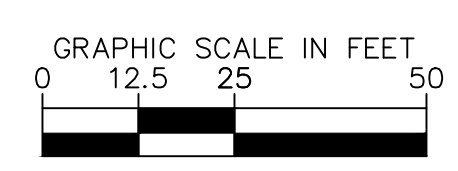
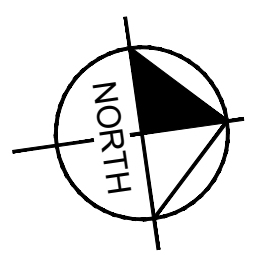
CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

REVISIONS	DESCRIPTION
DATE <td>BY </td>	BY

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DRAWN BY:	BRB DATE: 7/27/23
CHECKED BY:	KA DATE: 7/27/23
APPROVED BY:	DATE: 7/27/23



MATCHLINE STA. 105+00 SEE SHEET TP-1417



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

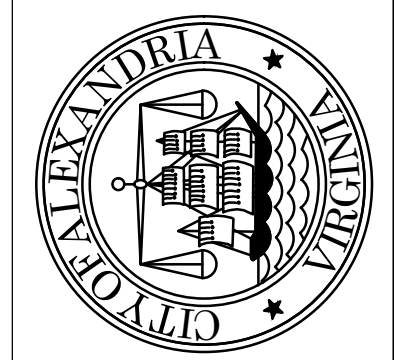
SHEET
TP-1416
SCALE 1" = 25'

TREE PRESERVATION PLAN

ALEXANDRIA PROJECT NO.: 110104122
 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: BRB DATE: 11/24/23
 DRAWN BY: BRB DATE: 11/24/23
 CHECKED BY: KA DATE: 11/24/23
 APPROVED BY: DATE: 11/24/23

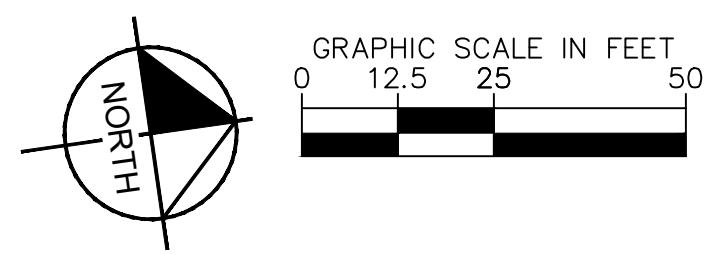
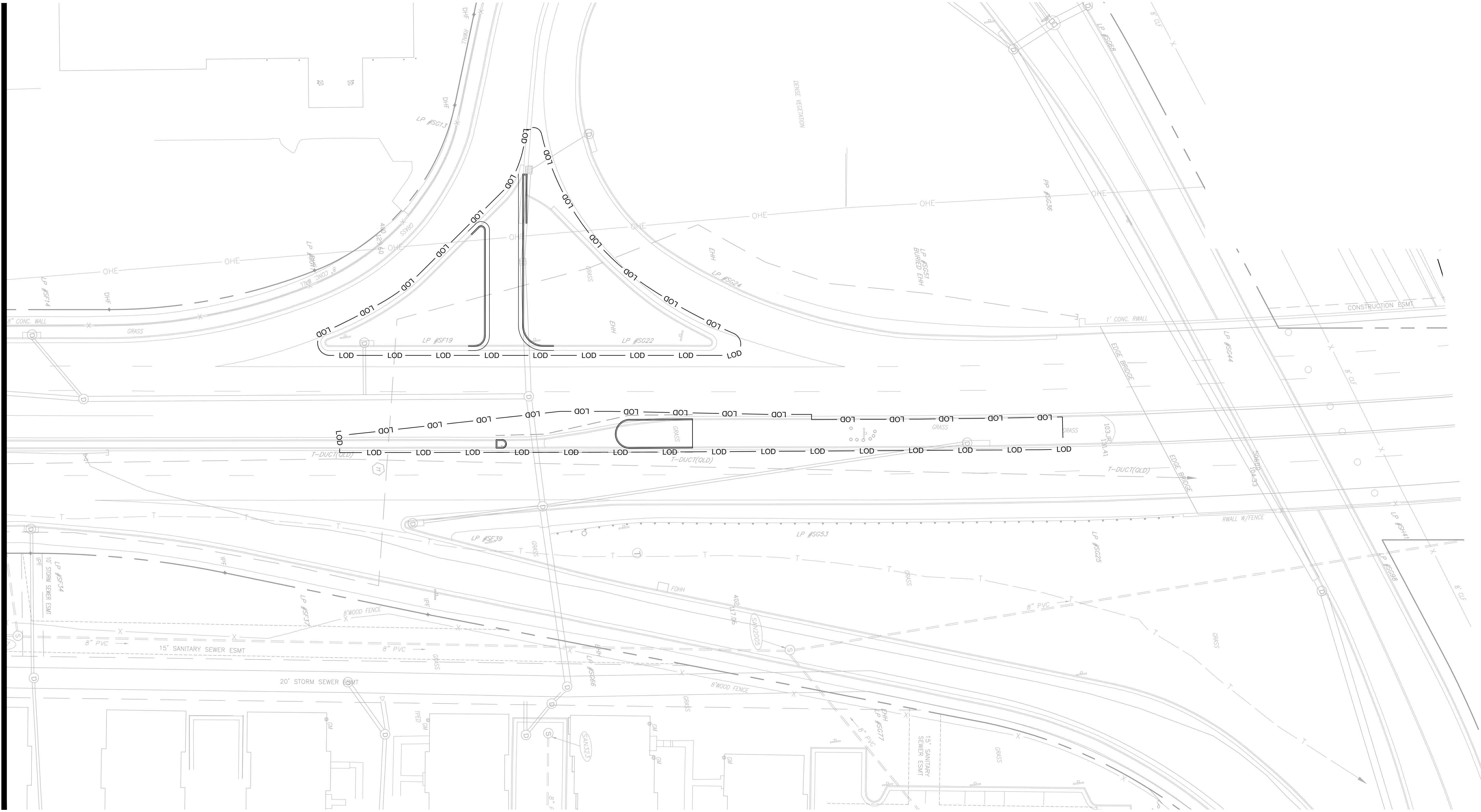
REVISIONS	DATE	DESCRIPTION

CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313



Plotted By: Barrazo, Beverly Sheet: Sct: West End Transitway - Phase 1 Layout: L-1417 July 12, 2024 11:29:31am \\Vimley-horn.com\AT_NVA2\NVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\TREE_PRESERVATION_PLAN_VAN_DORR.dwg

MATCHLINE STA. Value SEE SHEET TP-1416



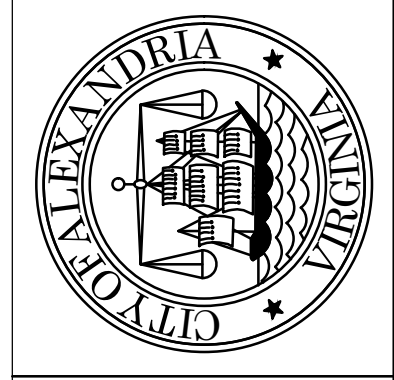
WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

ALEXANDRIA PROJECT NO.:	110104122
DATE OF PLAN ISSUANCE:	N/A
CONSULTANT PROJECT ID.:	N/A
DESIGNED BY:	BRB DATE: 11/24/23
DRAWN BY:	BRB DATE: 11/24/23
CHECKED BY:	KA DATE: 11/24/23
APPROVED BY:	DATE: 11/24/23

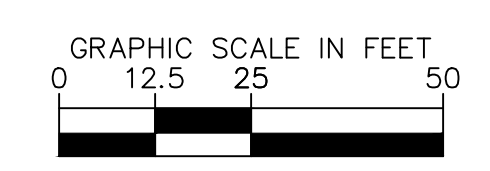
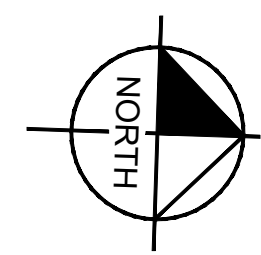
REVISIONS	DATE	DESCRIPTION

CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313



SHEET
 TP-1417
 SCALE 1" = 25'

TREE PRESERVATION PLAN



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

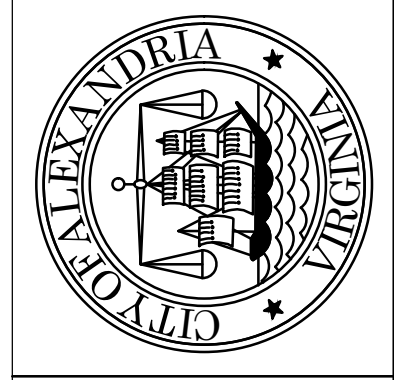
SHEET
TP-1418
SCALE 1" = 25'

TREE PRESERVATION
PLAN

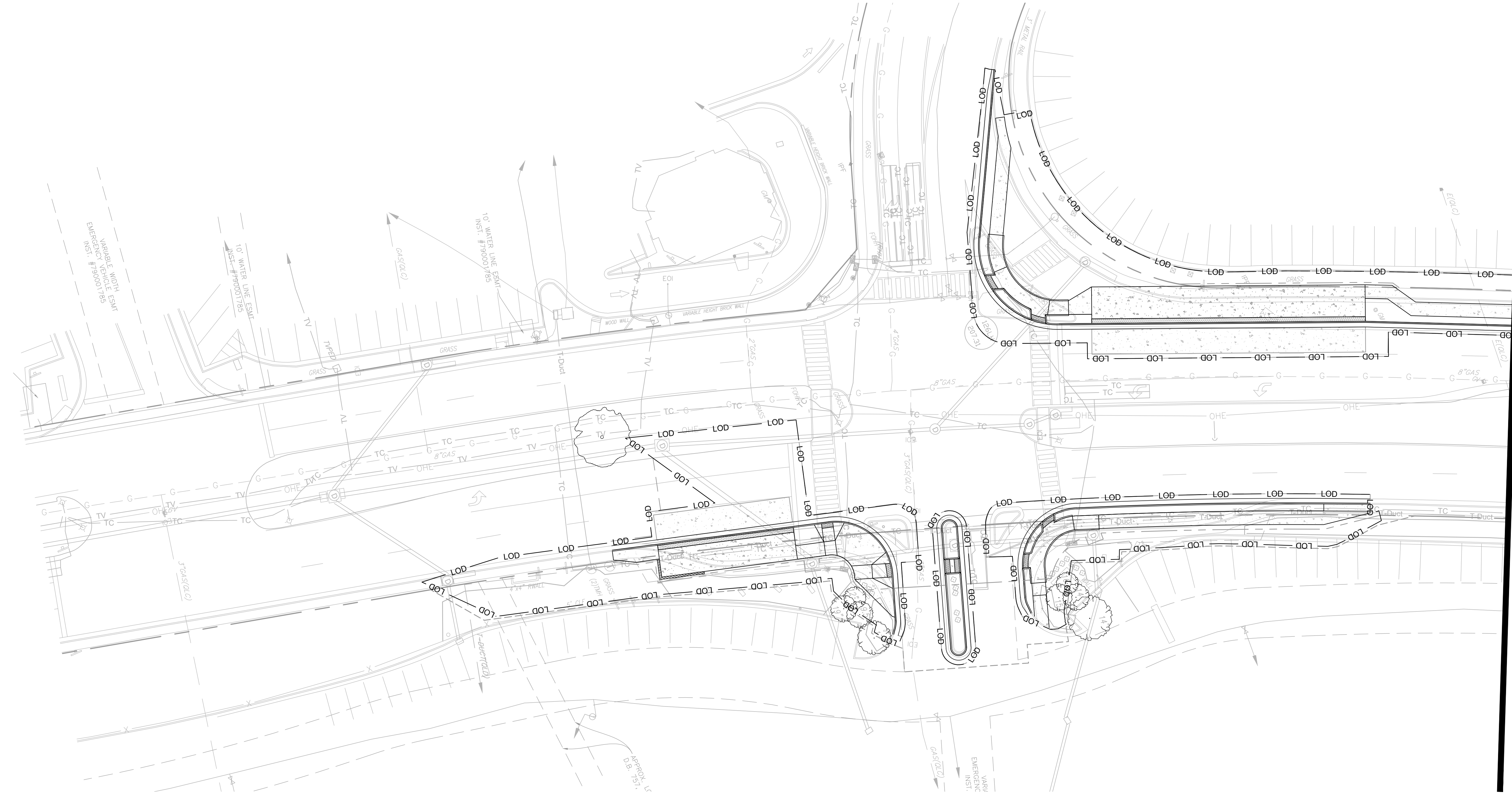
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DATE OF PLAN ISSUANCE:	N/A
CONSULTANT PROJECT ID.:	N/A
DESIGNED BY:	BRB DATE: 11/24/23
DRAWN BY:	BRB DATE: 11/24/23
CHECKED BY:	KA DATE: 11/24/23
APPROVED BY:	DATE: 11/24/23

REVISIONS	DATE	DESCRIPTION

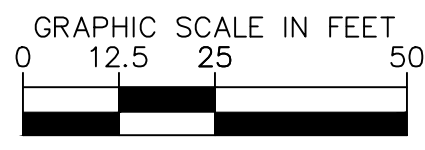
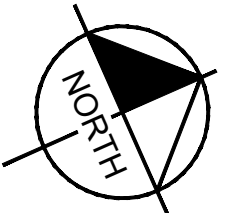
CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313



Plotted By: Barrazo, Beverly Sheet Set: West End Transitway - Phase 1 Layout: L-1419 July 12, 2024 11:30:10am \\Vimley-horn.com\AT_NVA2\NVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\TREE_PRESERVATION_PLAN_VAN_DORR.dwg



MATCHLINE STA.150+50 SEE SHEET TP-1420



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

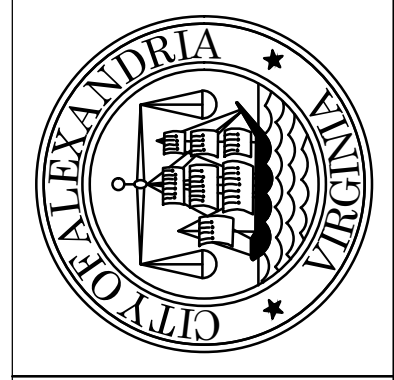
SHEET TP-1419 SCALE 1" = 25'

TREE PRESERVATION PLAN

ALEXANDRIA PROJECT NO.: 110104122
DATE OF PLAN ISSUANCE: N/A
CONSULTANT PROJECT ID: N/A
DESIGNED BY: VALUE DATE: 11/24/23
DRAWN BY: VALUE DATE: 11/24/23
CHECKED BY: VALUE DATE: 11/24/23
APPROVED BY: VALUE DATE: 11/24/23

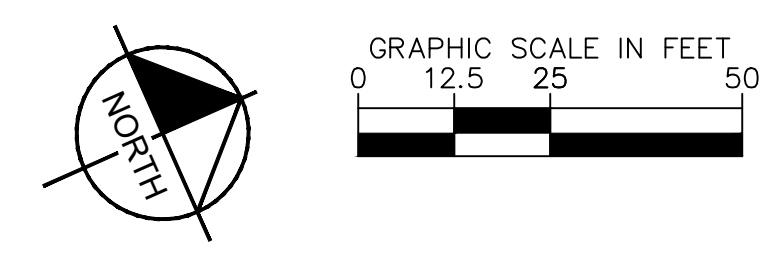
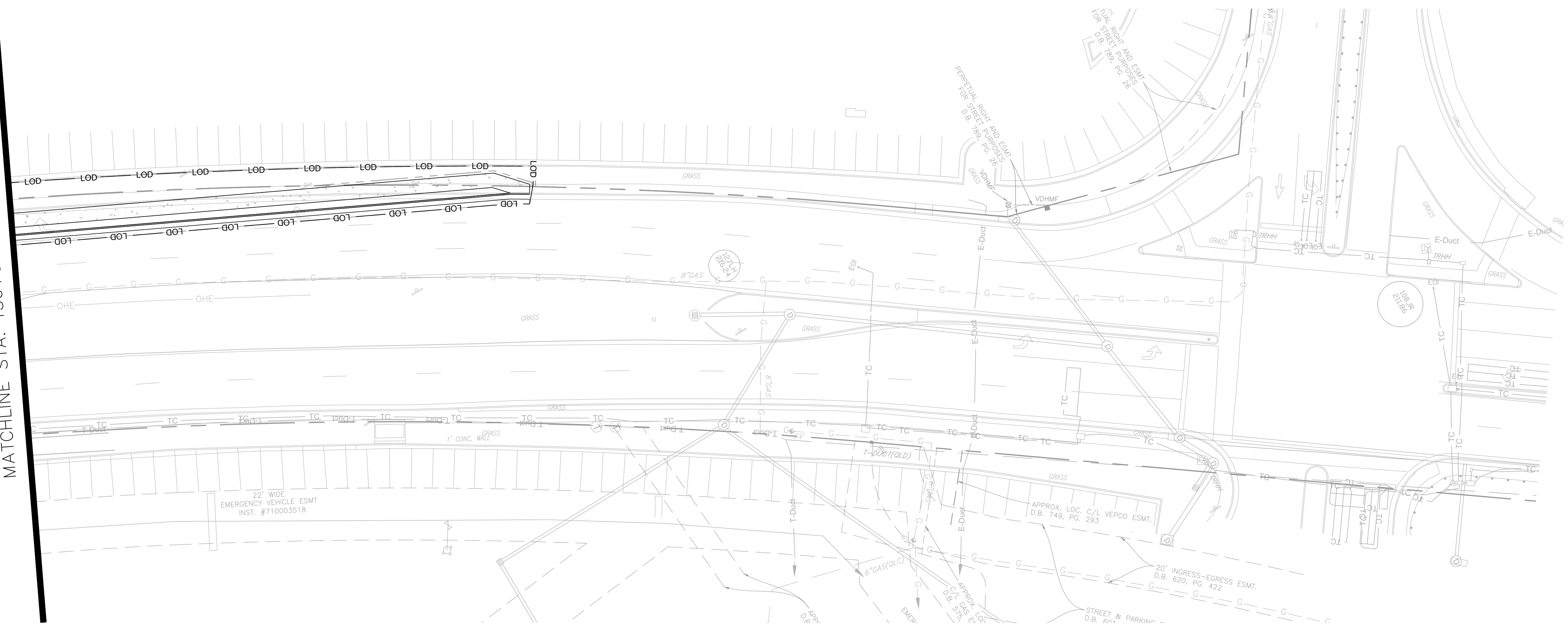
REVISIONS	DATE	DESCRIPTION

CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313



Plotted By: Barrazo, Beverly Sheet Set: West End Transitway - Phase 1 Layout: L-1420 July 12, 2024 11:30:20am \\kimsley-horn.com\AT_NVA2\NVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\TREE_PRESERVATION_PLAN_VAN_DORN.dwg

MATCHLINE STA. 150+50 SEE SHEET TP-1420



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

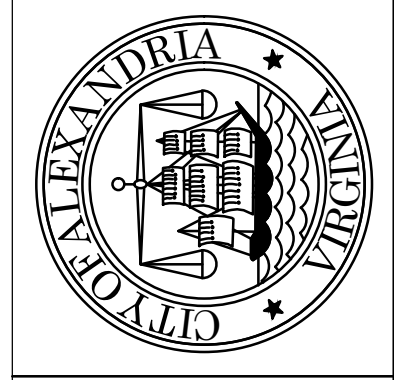
SHEET
TP-1420
SCALE 1" = 25'

TREE PRESERVATION PLAN

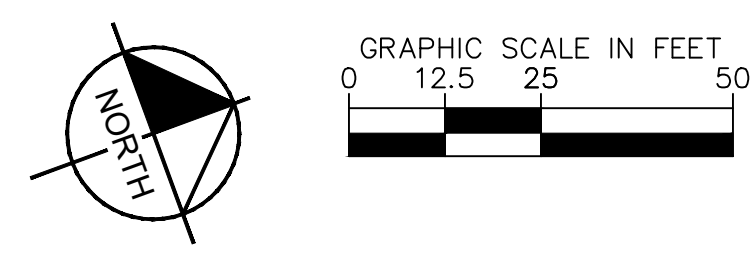
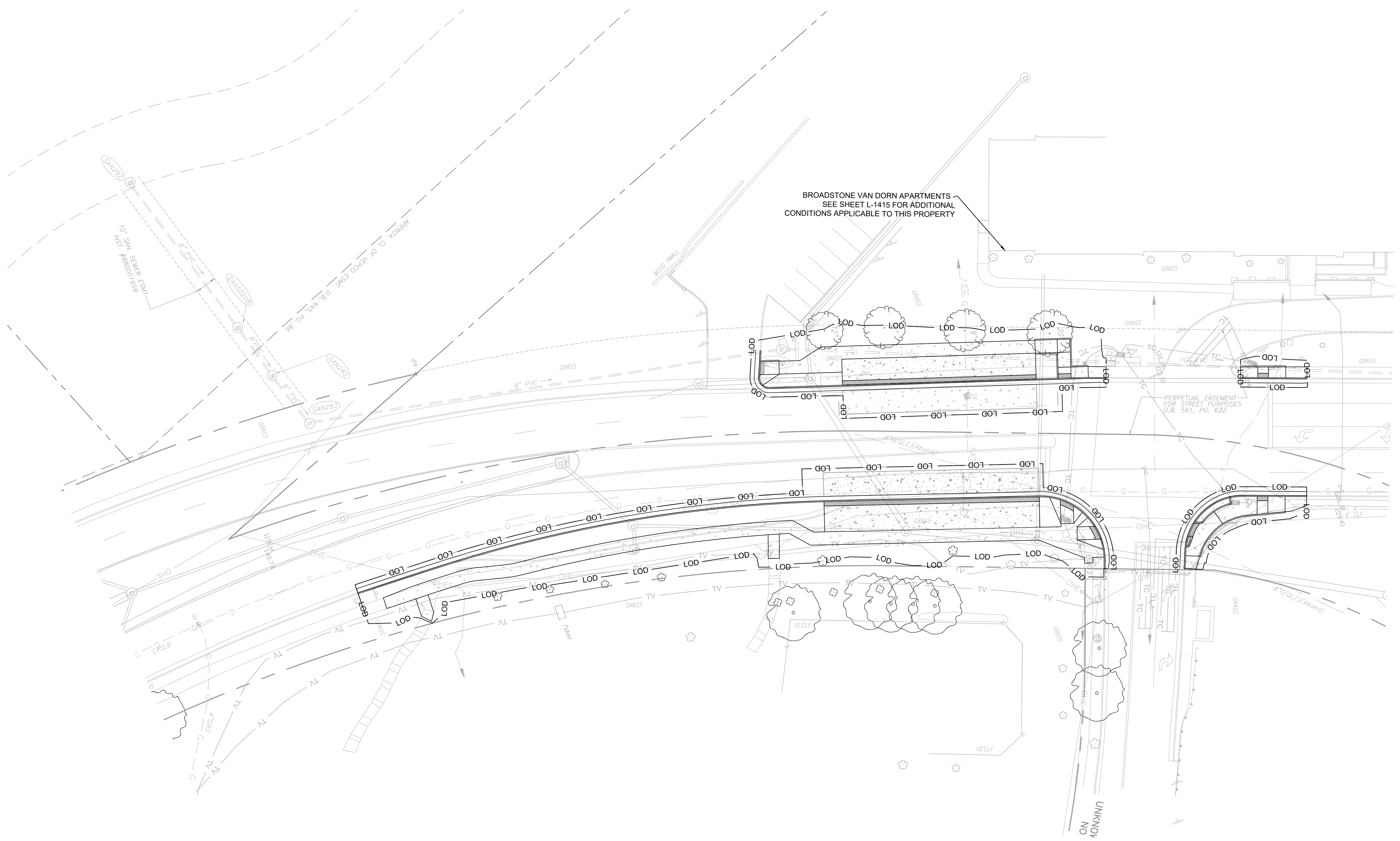
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DATE OF PLAN ISSUANCE:	N/A
CONSULTANT PROJECT ID.:	N/A
DESIGNED BY:	BRB DATE: 11/24/23
DRAWN BY:	BRB DATE: 11/24/23
CHECKED BY:	KA DATE: 11/24/23
APPROVED BY:	DATE: 11/24/23

REVISIONS	DATE	DESCRIPTION

CITY OF ALEXANDRIA, VIRGINIA
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WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

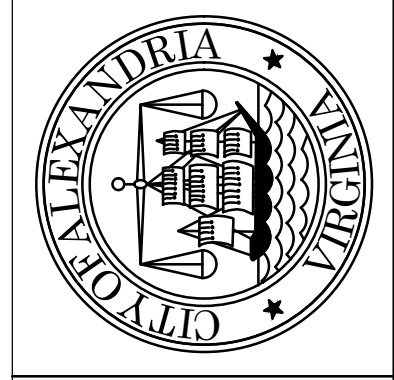
SHEET
TP-1421
SCALE 1" = 25'

TREE PRESERVATION PLAN

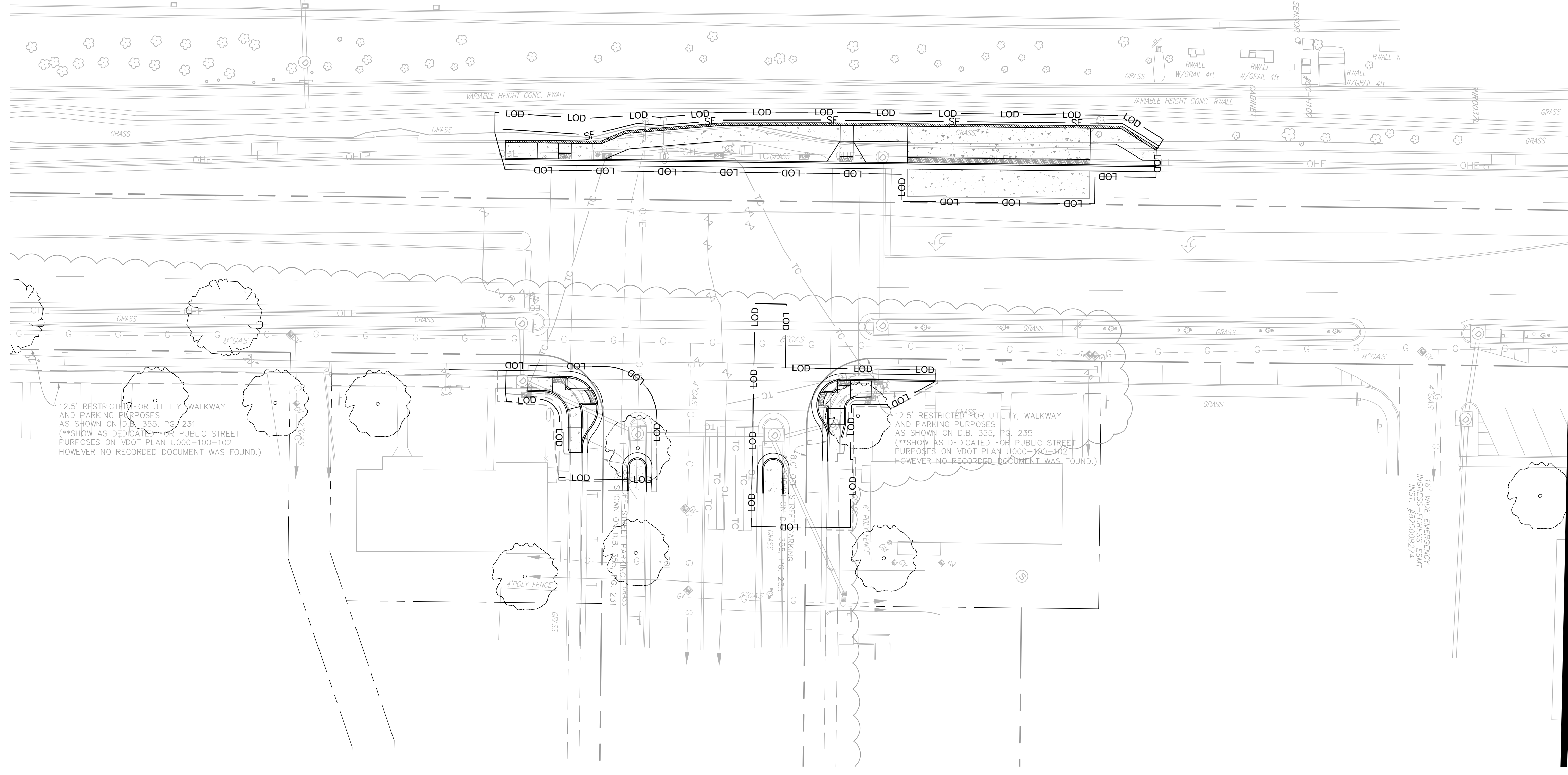
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 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID.: N/A
 DESIGNED BY: BRB DATE: 11/24/23
 DRAWN BY: BRB DATE: 11/24/23
 CHECKED BY: KA DATE: 11/24/23
 APPROVED BY: DATE: 11/24/23

REVISIONS	DESCRIPTION
DATE	
BY	

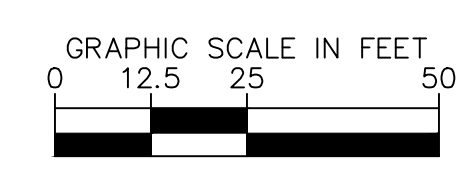
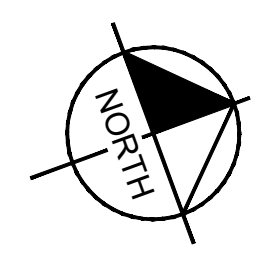
CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
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 ALEXANDRIA, VIRGINIA 22313



Plotted By: Barrazo, Beverly Sheet: West End Transitway - Phase 1 Layout: L-1422 July 12, 2024 11:30:41am \\wimley-horn.com\AT_NVA2\NVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\TREE_PRESERVATION_PLAN_VAN_DORN.dwg



MATCHLINE STA. 197+00 SEE SHEET TP-1423

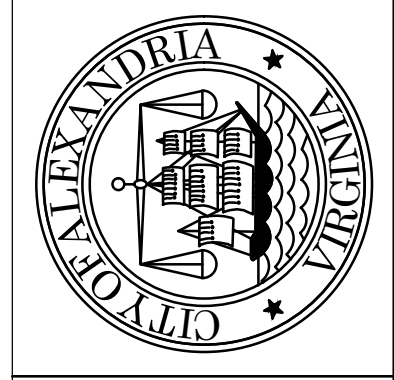


WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

TREE PRESERVATION PLAN

SHEET TP-1422
SCALE 1" = 25'

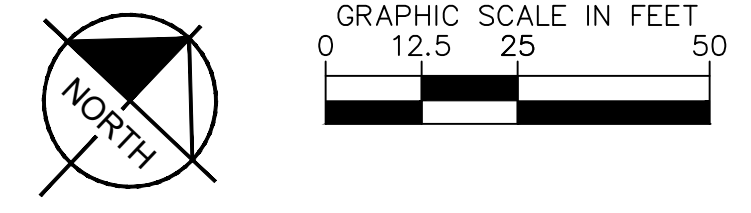
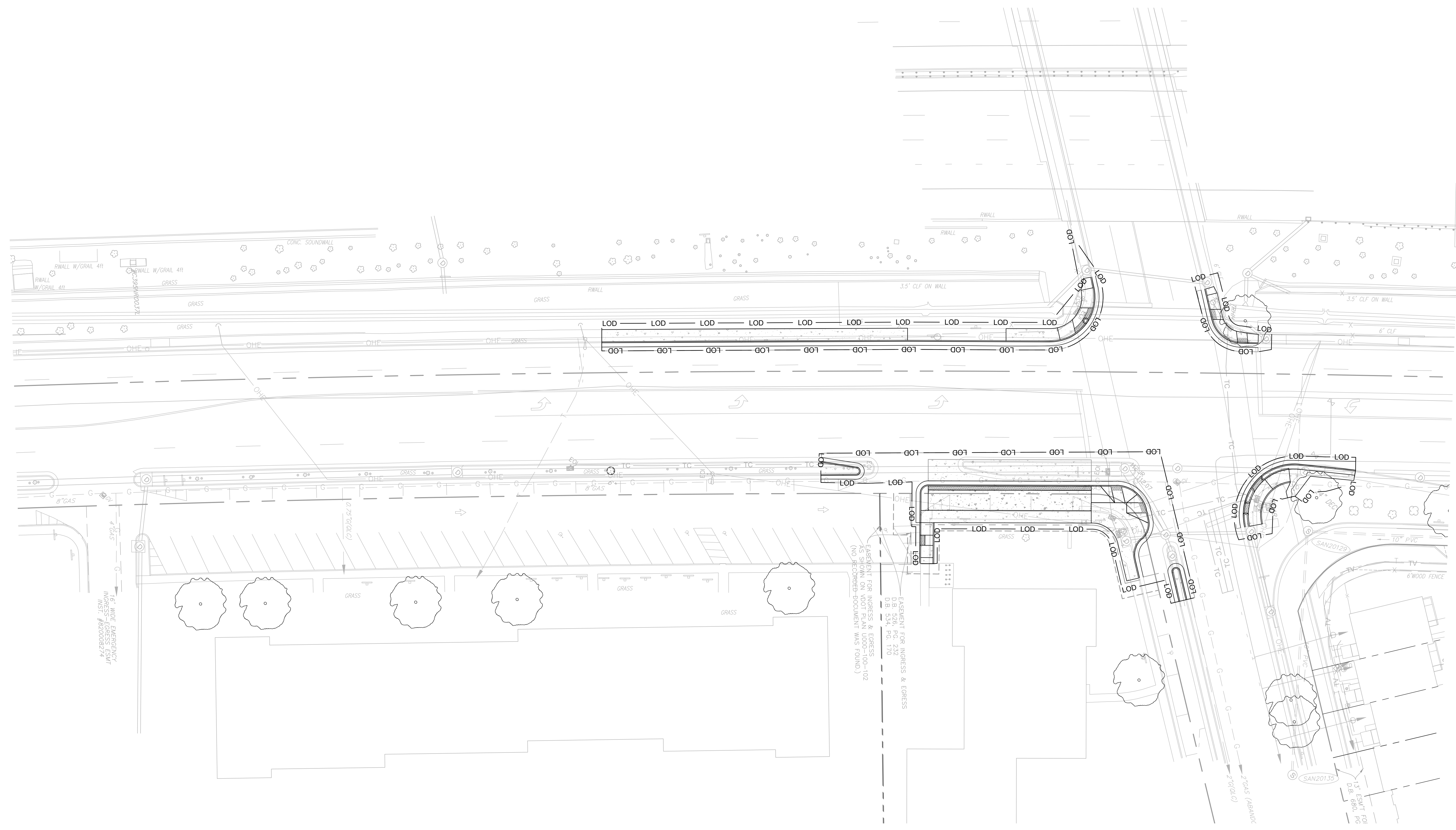
90% DESIGN PHASE



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DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

REVISIONS	DATE	DESCRIPTION
ALEXANDRIA PROJECT NO.: 110104122	DATE OF PLAN ISSUANCE: N/A	CONSULTANT PROJECT ID: N/A
DESIGNED BY: BRB	DATE: 11/24/23	DRAWN BY: BRB
CHECKED BY: KA	DATE: 11/24/23	APPROVED BY: _____
	DATE: 11/24/23	

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WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

ALEXANDRIA PROJECT NO.:	110104122
DATE OF PLAN ISSUANCE:	N/A
CONSULTANT PROJECT ID.:	N/A
DESIGNED BY:	BRB DATE: 11/24/23
DRAWN BY:	BRB DATE: 11/24/23
CHECKED BY:	KA DATE: 11/24/23
APPROVED BY:	DATE: 11/24/23

REVISIONS	DATE	DESCRIPTION

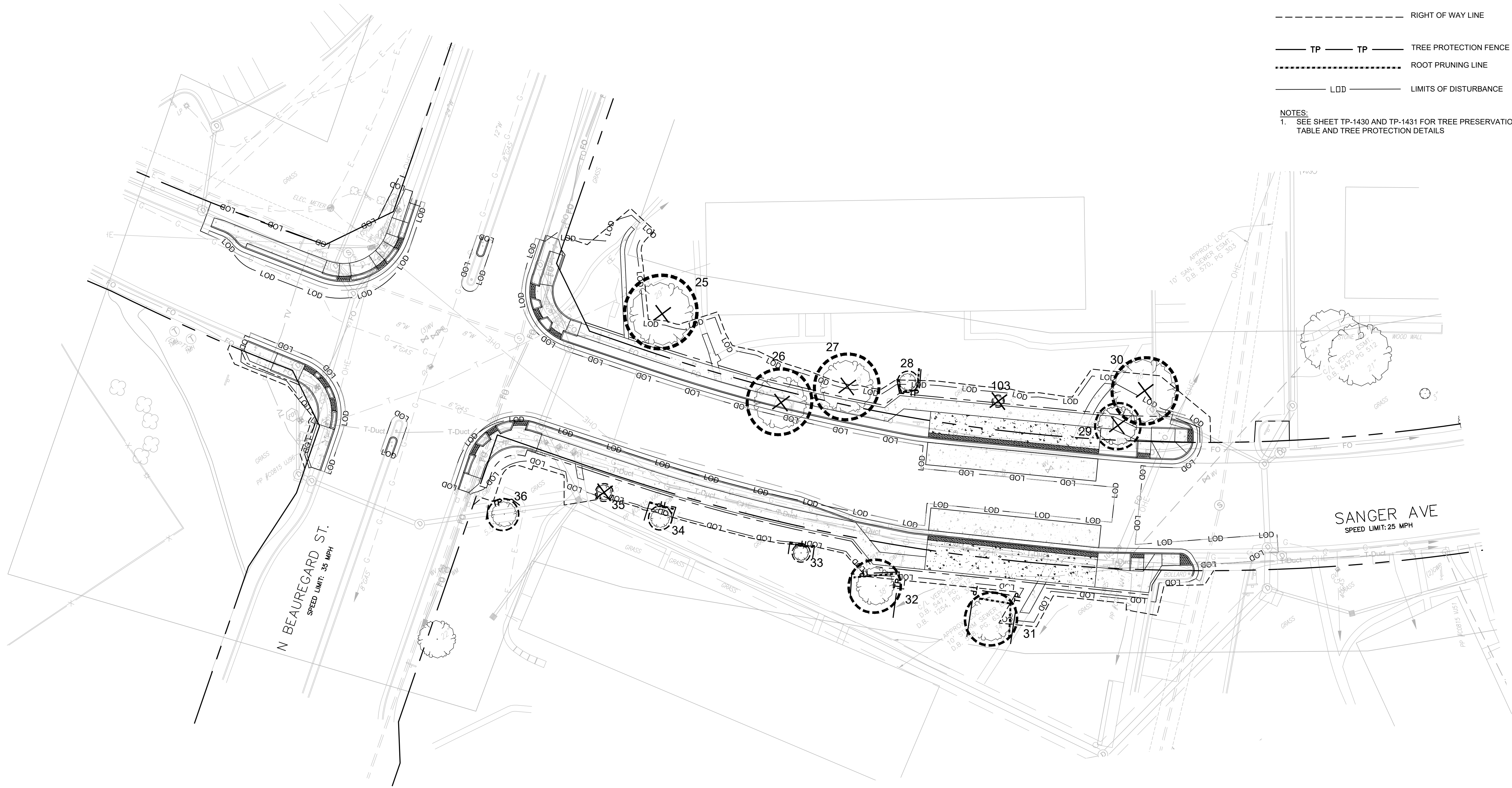
CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313





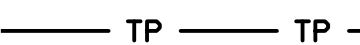

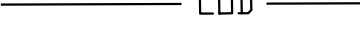


SHEET
 TP-1423
 SCALE 1" = 25'

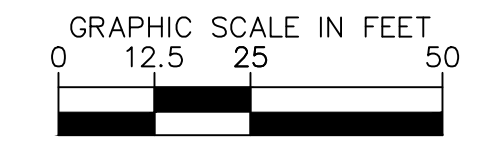
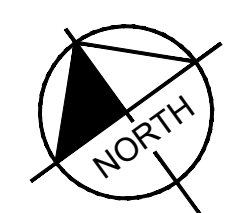
TREE PRESERVATION PLAN

Plotted By: Sadr, Nasima Sheet Set: West End Transitway - Phase 1 Layout: Model July 27, 2023 11:27:37am K:\NVA_Transit\110104122_West_End_Transitway_Design\CADD\PlanSheets\ROADWAY_PLAN.dwg



- LEGEND**
-  TREE TO REMAIN
 -  TREE TO BE REMOVED
 -  CRITICAL ROOT ZONE
 -  RIGHT OF WAY LINE
 -  TP TREE PROTECTION FENCE
 -  ROOT PRUNING LINE
 -  LOD LIMITS OF DISTURBANCE

NOTES:
 1. SEE SHEET TP-1430 AND TP-1431 FOR TREE PRESERVATION TABLE AND TREE PROTECTION DETAILS



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS **90% DESIGN PHASE**



CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

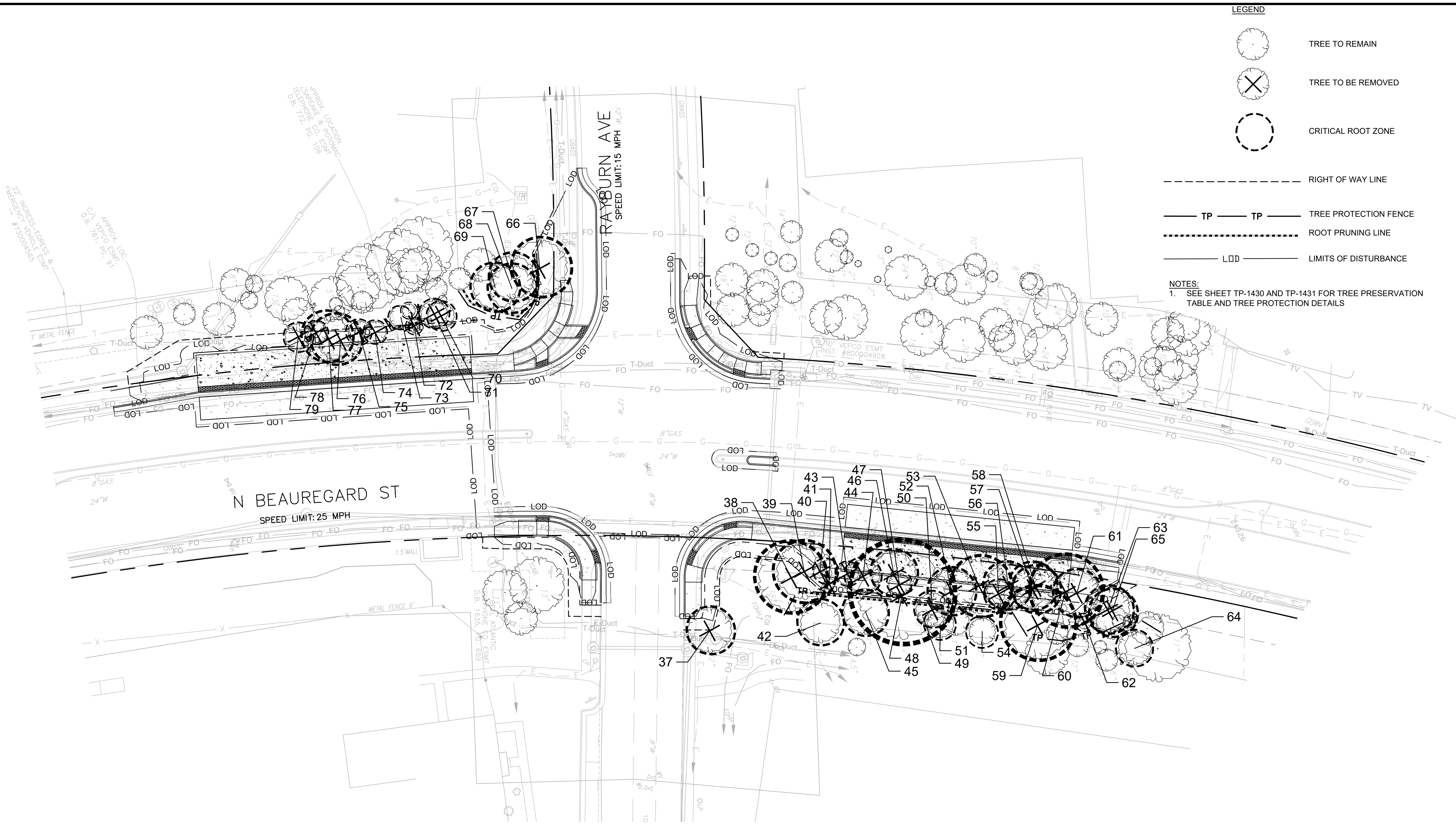
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DATE	BY

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DATE OF PLAN ISSUANCE:	N/A
CONSULTANT PROJECT ID:	N/A
DESIGNED BY: BRB	DATE: 7/27/23
DRAWN BY: BRB	DATE: 7/27/23
CHECKED BY: KA	DATE: 7/27/23
APPROVED BY: _____	DATE: 7/27/23

TREE PRESERVATION PLAN

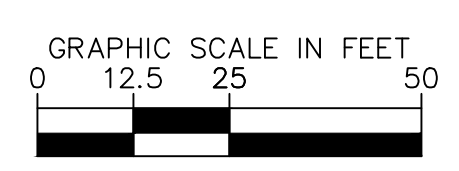
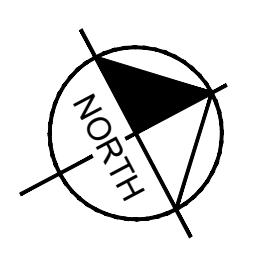
SHEET
 TP-1424
 SCALE 1" = 25'

Plotted By: Sadr, Nesima Sheet Set: West End Transitway - Phase 1 Layout: Model July 27, 2023 11:27:37am K:\NVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\ROADWAY_PLAN.dwg



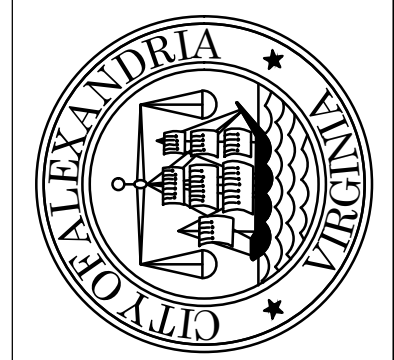
- LEGEND**
- TREE TO REMAIN
 - TREE TO BE REMOVED
 - CRITICAL ROOT ZONE
 - RIGHT OF WAY LINE
 - TP TREE PROTECTION FENCE
 - ROOT PRUNING LINE
 - LOD LIMITS OF DISTURBANCE

NOTES:
 1. SEE SHEET TP-1430 AND TP-1431 FOR TREE PRESERVATION TABLE AND TREE PROTECTION DETAILS



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE



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 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

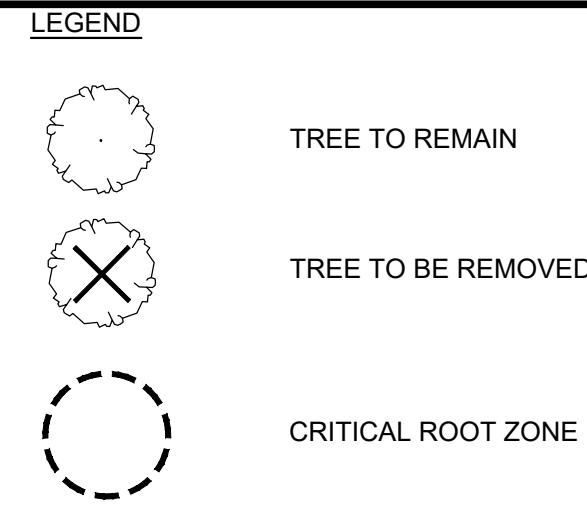
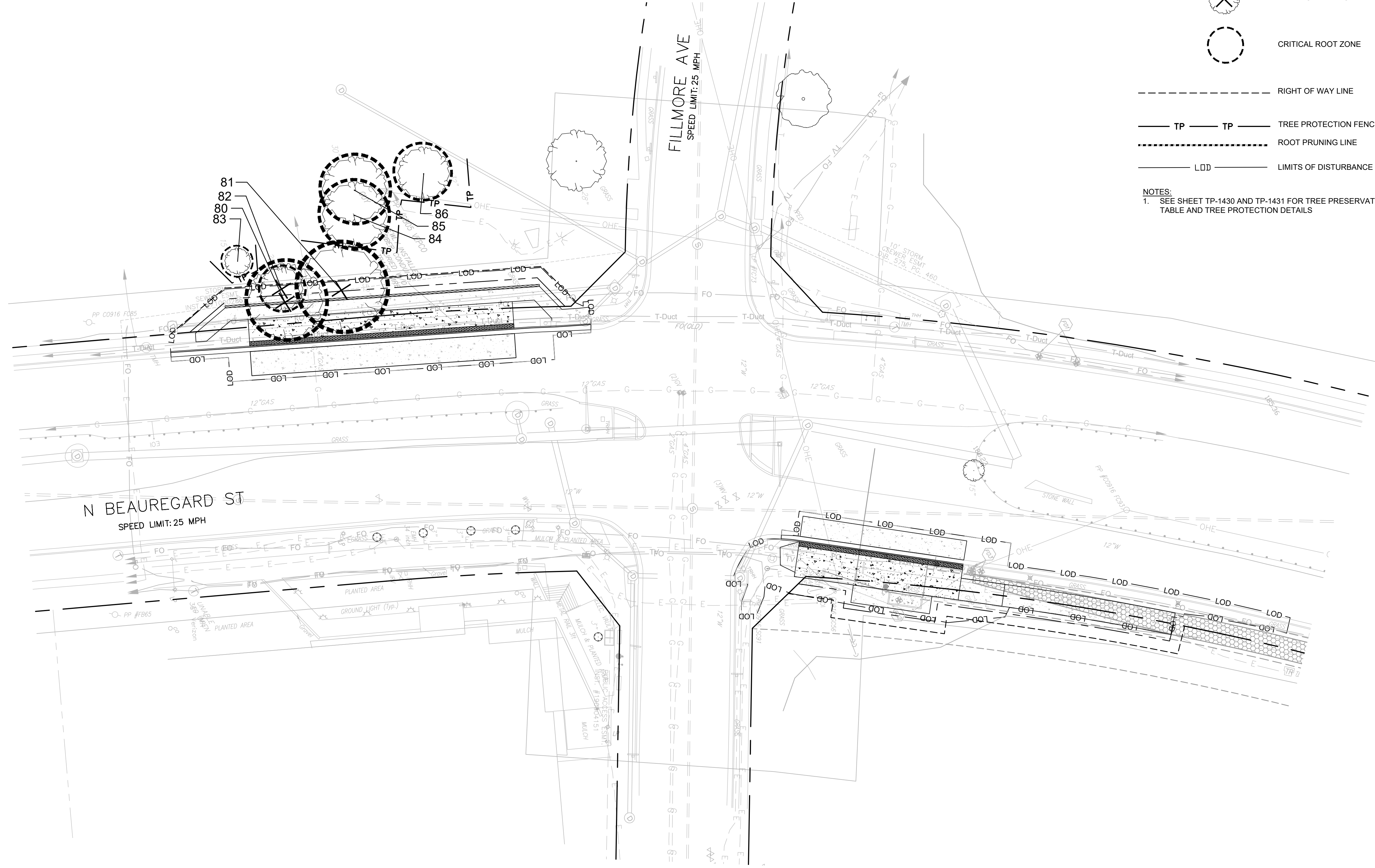
REVISIONS	DATE	DESCRIPTION

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 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: BRB DATE: 7/27/23
 DRAWN BY: BRB DATE: 7/27/23
 CHECKED BY: KA DATE: 7/27/23
 APPROVED BY: DATE: 7/27/23

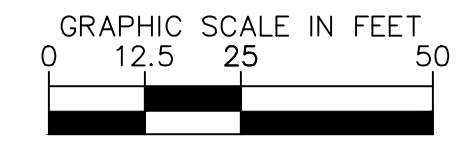
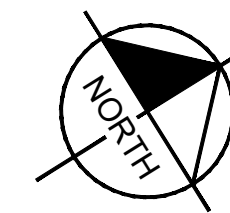
TREE PRESERVATION PLAN

SHEET
 TP-1426
 SCALE 1" = 25'

Plotted By: Sadr, Nasima Sheet Set: West End Transitway - Phase 1 Layout: Model July 27, 2023 11:27:37am K:\NVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\ROADWAY_PLAN.dwg



NOTES:
 1. SEE SHEET TP-1430 AND TP-1431 FOR TREE PRESERVATION TABLE AND TREE PROTECTION DETAILS



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

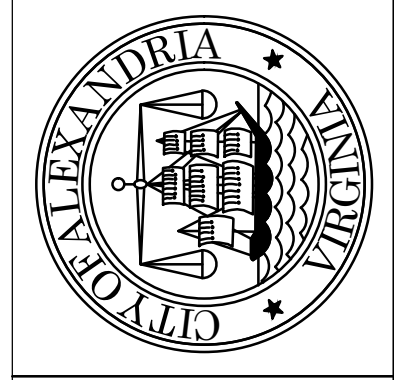
TREE PRESERVATION PLAN

SHEET
 TP-1427
 SCALE 1" = 25'

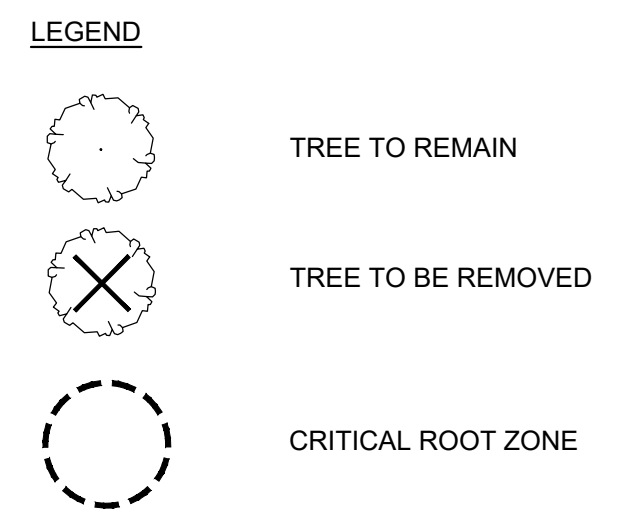
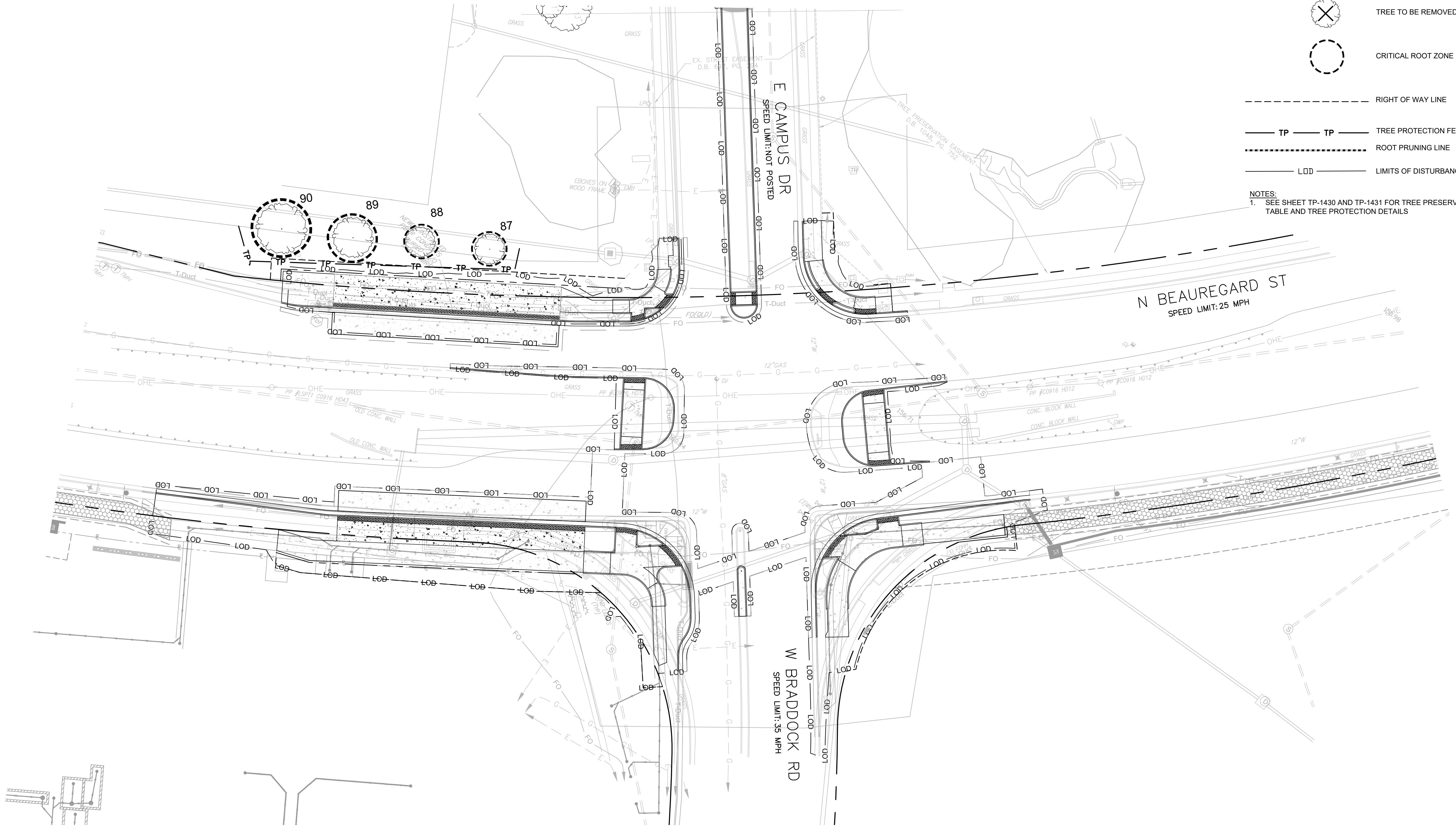
ALEXANDRIA PROJECT NO.:	110104122
DATE OF PLAN ISSUANCE:	N/A
CONSULTANT PROJECT ID.:	N/A
DESIGNED BY:	BRB DATE: 7/27/23
DRAWN BY:	BRB DATE: 7/27/23
CHECKED BY:	KA DATE: 7/27/23
APPROVED BY:	DATE: 7/27/23

REVISIONS	DATE	DESCRIPTION

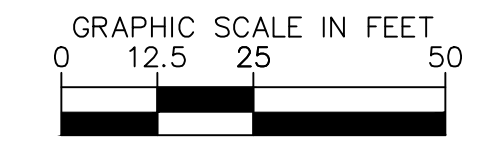
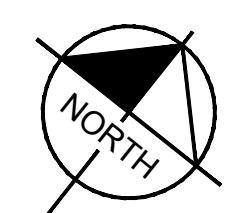
CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313



Plotted By: Sadr, Nasima Sheet Set: West End Transitway - Phase 1 Layout: Model July 27, 2023 11:27:37am K:\NVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\ROADWAY_PLAN.dwg



NOTES:
 1. SEE SHEET TP-1430 AND TP-1431 FOR TREE PRESERVATION TABLE AND TREE PROTECTION DETAILS



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS 90% DESIGN PHASE



CITY OF ALEXANDRIA, VIRGINIA
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 ALEXANDRIA, VIRGINIA 22313

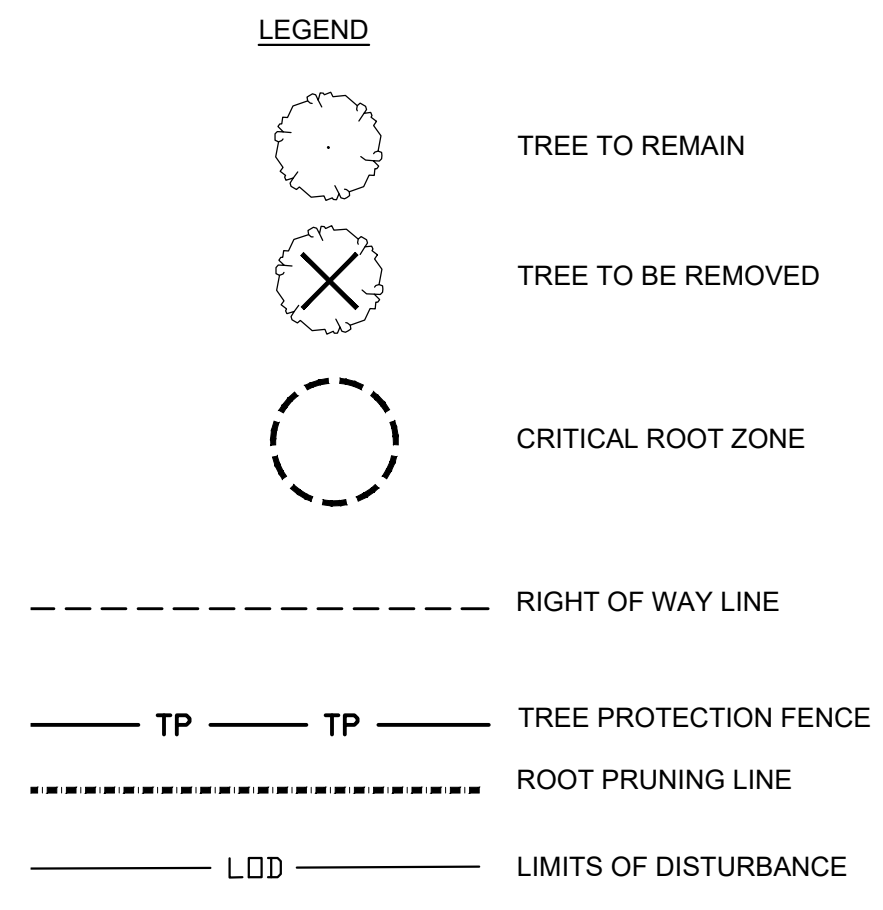
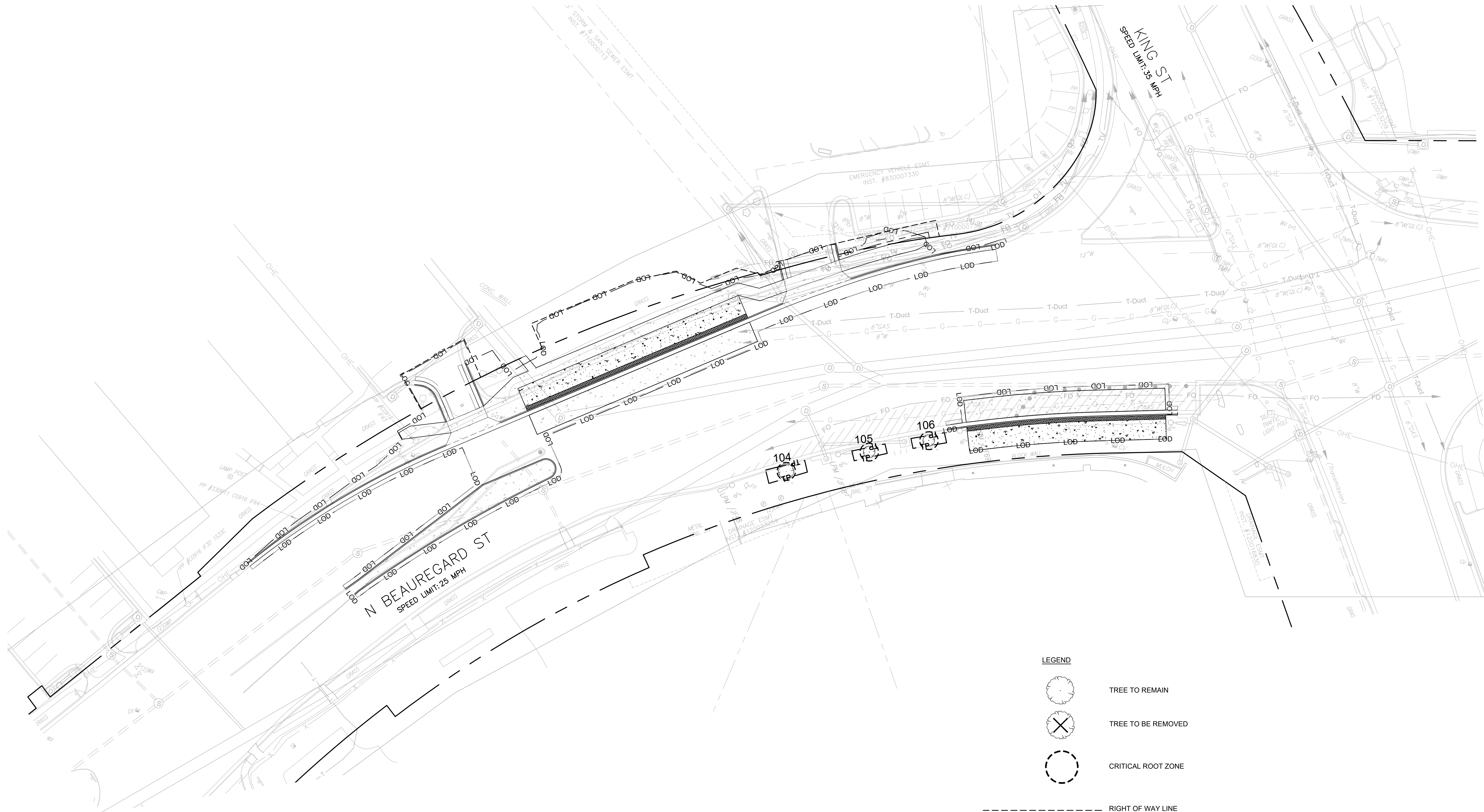
REVISIONS	DATE	DESCRIPTION

ALEXANDRIA PROJECT NO.: 110104122
 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID.: N/A
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 DRAWN BY: BRB DATE: 7/27/23
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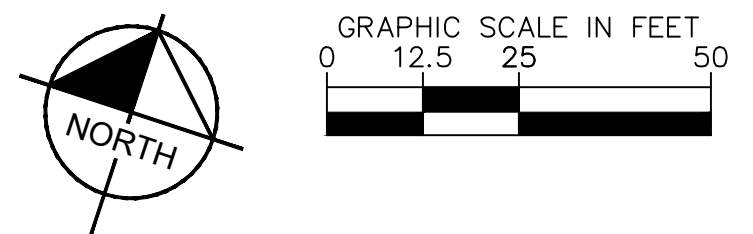
TREE PRESERVATION PLAN

SHEET
 TP-1428
 SCALE 1" = 25'

Plotted By: Sadr, Nasima Sheet Set: West End Transitway - Phase 1 Layout: Model July 27, 2023 11:27:37am K:\NVA_Transit\110104122_West_End_Transitway_Design\CADD\PlanSheets\ROADWAY_PLAN.dwg



NOTES:
 1. SEE SHEET TP-1430 AND TP-1431 FOR TREE PRESERVATION TABLE AND TREE PROTECTION DETAILS



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

ALEXANDRIA PROJECT NO.:	110104122
DATE OF PLAN ISSUANCE:	N/A
CONSULTANT PROJECT ID.:	N/A
DESIGNED BY:	BRB DATE: 7/27/23
DRAWN BY:	BRB DATE: 7/27/23
CHECKED BY:	KA DATE: 7/27/23
APPROVED BY:	DATE: 7/27/23

REVISIONS	DATE	DESCRIPTION



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 DEPARTMENT OF PROJECT IMPLEMENTATION
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TREE PRESERVATION PLAN

SHEET
 TP-1429
 SCALE 1" = 25'

Plotted By: Soad, Nesima Sheet Set: West End Transitway - Phase 1 Layout: Model July 27, 2023 11:27:37am K:\NVA_Transit\110104122_West_End_Transitway_Design\CADD\PlanSheets\ROADWAY_PLAN.dwg

Existing Tree Condition Inventory & Analysis									
Tree No.	DBH	CTLA Rating	To Be Removed?	Botanical Name	Common Name	CCA	Elevation	Survival Chance	Notes
1	6"	95%	X	Quercus phellos	Willow Oak	113 SF	234.77		
2	8"	95%	X	Quercus phellos	Willow Oak	201 SF	235.29		
3	8"	95%		Quercus phellos	Willow Oak	201 SF	237.00		
4	10"	90%		Quercus phellos	Willow Oak	314 SF	241.60		
5	10"	90%		Quercus phellos	Willow Oak	314 SF	234.84		
6	9"	83%		Lagerstroemia spp.	Crape Myrtle	264 SF	237.96		
7	6"	95%	X	Lagerstroemia spp.	Crape Myrtle	120 SF	237.97		
8	3"	78%		Lagerstroemia spp.	Crape Myrtle	35 SF	238.56		
9	10"	83%		Platanus occidentalis	American Sycamore	314 SF	245.04		
10	12"	83%		Platanus occidentalis	American Sycamore	452 SF	241.83		
11	11"	76%	X	Lagerstroemia spp.	Crape Myrtle	408 SF	245.47		
12	9"	76%	X	Lagerstroemia spp.	Crape Myrtle	279 SF	247.41		
13	7"	83%	X	Lagerstroemia spp.	Crape Myrtle	141 SF	247.22		
14	10"	66%		Prunus spp.	Cherry	314 SF	246.95		
15	10"	76%		Pinus strobus	Eastern White Pine	314 SF	247.59		
16	24"	64%		Pinus strobus	Eastern White Pine	1,809 SF	248.28		
17	18"	69%		Pinus strobus	Eastern White Pine	1,017 SF	248.91		
18	18"	67%		Pinus strobus	Eastern White Pine	1,017 SF	249.23		
19	24"	69%		Pinus strobus	Eastern White Pine	1,809 SF	249.62		
20	26"	67%	X	Acer rubrum	Red Maple	2,123 SF	249.27		
21	26"	70%	X	Acer rubrum	Red Maple	2,123 SF	249.10		
22	24"	61%	X	Acer rubrum	Red Maple	1,809 SF	249.06		
23	8"	68%	X	Prunus spp.	Cherry	201 SF	249.76		
24	24"	63%	X	Prunus spp.	Cherry	1,809 SF	250.43		
25	30"	74%	X	Quercus rubra	Red Oak	2,826 SF	250.35		
26	30"	85%	X	Quercus phellos	Willow Oak	2,826 SF	250.27		
27	18"	90%	X	Quercus alba	White Oak	1,017 SF	249.30		
28	3"	66%		Lagerstroemia spp.	Crape Myrtle	38 SF	248.71		
29	26"	86%	X	Quercus bicolor	Swamp White Oak	2,123 SF	244.75		
30	30"	89%	X	Quercus bicolor	Swamp White Oak	2,826 SF	249.66		
31	28"	85%		Quercus alba	White Oak	2,462 SF	249.45		
32	35"	88%		Quercus alba	White Oak	3,847 SF	251.63		
33	4"	78%		Lagerstroemia spp.	Crape Myrtle	63 SF	252.00		
34	22"	92%		Pinus strobus	Eastern White Pine	1,520 SF	252.00		
35	4"	78%	X	Lagerstroemia spp.	Crape Myrtle	50 SF	249.10		
36	5"	78%		Prunus spp.	Cherry	79 SF	252.00		
37	15"	91%	X	Acer rubrum	Red Maple	707 SF	252.00		
38	24"	92%	X	Quercus rubra	Red Oak	1,802 SF	250.55		
39	15"	91%	X	Pinus strobus	Eastern White Pine	707 SF	252.00		
40	4"	81%	X	Pinus strobus	Eastern White Pine	50 SF	251.14		
41	2"	81%	X	Cercis canadensis	Redbud	13 SF	252.00		
42	10"	75%		Quercus alba	White Oak	314 SF	251.47		
43	10"	59%	X	Quercus alba	White Oak	314 SF	247.60		
			X	DEAD	DEAD				DEAD
44	8"	84%		Quercus alba	White Oak	201 SF	246.37		
45	10"	84%	X	Quercus alba	White Oak	314 SF	249.04		
			X	DEAD	DEAD				DEAD
46	3"	86%	X	Quercus rubra	Red Oak	28 SF	246.00		
47	25"	86%		Pinus strobus	Eastern White Pine	2,038 SF	247.07		
48	2"	83%	X	Quercus alba	White Oak	7 SF	245.42		
49	4"	93%		Fagus grandifolia	American Beech	50 SF	244.27		
50	3"	93%	X	Pinus strobus	Eastern White Pine	28 SF	245.94		
51	12"	66%	X	Pinus strobus	Eastern White Pine	452 SF	246.19		
52	8"	85%		Cercis canadensis	Eastern Redbud	201 SF	244.91		
53	4"	78%	X	Cercis canadensis	Eastern Redbud	50 SF	245.01		
54	3"	76%	X	Pinus strobus	Eastern White Pine	28 SF	245.50		
55	15"	73%	X	Pinus strobus	Eastern White Pine	707 SF	245.47		
56	8"	84%	X	Pinus strobus	Eastern White Pine	201 SF	243.28		
57	8"	85%	X	Quercus rubra	Red oak	201 SF	243.39		
58	18"	95%	X	Pinus strobus	Eastern White Pine	1,017 SF	244.45		
59	7"	68%	X	Pinus strobus	Eastern White Pine	154 SF	243.46		
60	14"	78%	X	Cercis canadensis	Eastern Red Bud	615 SF	244.02		
61	5"	71%	X	Fagus grandifolia	American Beech	79 SF	244.02		
62	6"	91%	X	Cercis canadensis	Eastern Red Bud	113 SF	243.48		
63	4"	61%	X	Amelanchier spp.	Serviceberry	50 SF	240.89		
64	2"	63%	X	Carya spp.	Hickory	19 SF	240.08		
				DEAD	DEAD				DEAD
				DEAD	DEAD				DEAD
65	19"	89%		Quercus rubra	Red Oak	1,134 SF	240.82		
66	16"	89%	X	Carya spp.	Hickory	766 SF	238.91		
67	8"	95%	X	Quercus rubra	Red Oak	182 SF	238.98		
68	3"	77%	X	Acer rubrum	Red Maple	28 SF	237.07		
69	4"	83%		Quercus rubra	Red Oak	50 SF	236.94		
70	4"	79%	X	Prunus spp.	Cherry	50 SF	237.90		
71	5"	83%	X	Ilex opaca	American Holly	79 SF	238.85		
72	8"	83%	X	Pinus strobus	Eastern White Pine	201 SF	235.59		
73	8"	89%	X	Pinus strobus	Eastern White Pine	201 SF	235.84		
74	5"	83%	X	Quercus rubra	Red Oak	79 SF	234.94		
75	4"	83%	X	Cercis canadensis	Eastern Redbud	50 SF	234.02		
76	52"	70%	X	Quercus alba	White Oak	8,491 SF	234.37		
77	48"	87%	X	Quercus alba	White Oak	7,235 SF	234.29		
78	30"	95%	X	Quercus rubra	Red Oak	2,826 SF	234.47		
79	12"	92%		Quercus rubra	Red Oak	452 SF	234.62		
80	38"	91%		Fagus grandifolia	American Beech	4,534 SF	234.83		
81	49"	95%		Quercus rubra	Red Oak	7,693 SF	234.95		
82	8"	95%		Fagus grandifolia	American Beech	201 SF	234.91		
83	10"	92%		Liquidambar styraciflua	Sweet Gum	314 SF	234.87		
84	12"	92%		Liquidambar styraciflua	Sweet Gum	452 SF	233.24		
85	13"	92%		Liquidambar styraciflua	Sweet Gum	531 SF	233.08		
86	13"	89%		Liquidambar styraciflua	Sweet Gum	531 SF	233.05		
87	5"	89%		Quercus phellos	Willow Oak	79 SF	233.84		
88	5"	94%		Quercus phellos	Willow Oak	79 SF	241.90		
89	5"	89%		Quercus phellos	Willow Oak	79 SF	242.00		
90	5"	86%		Quercus phellos	Willow Oak	79 SF	242.00		

Notes:

1. Per the USDA Forest Service's Forest Inventory and Analysis program manual, the overall DBH for multi-stem trees shall be the square root of the sum of all individual stems DBH's squared.

EXISTING CANOPY ON SITE	84,034 SF
CANOPY TO BE REMOVED	48,839 SF
CANOPY TO REMAIN	35,195 SF

TOTAL REQUIRED REPLACEMENT TREES	56 Trees
TOTAL PROPOSED TREES	76 Trees
TOTAL PROPOSED UNDERSTORY TREES	28 Trees

GENERAL NOTES:

- FOR THE FOLLOWING ARCHITECTURAL RESOURCES, THE POTENTIAL VIRGINIA LANDMARKS REGISTER (VLR) / NATIONAL REGISTER OF HISTORIC PLACES (NRHP)- ELIGIBLE BROADSTONE VAN DORN APARTMENTS (DHR ID#100-5329), THE LARCHMONT APARTMENTS (DHR ID #100-5336) AND MEADOWCREEK LYNBROOK APARTMENTS (DHR ID #100-5332), THE FOLLOWING ADDITIONAL CONDITIONS WILL APPLY:
 - THE IMPACTS OF THE PROJECT TO TREES SHALL BE MINIMIZED BY REMOVING OR TRIMMING THE NECESSARY TREES AS NEEDED TO ALLOW CONSTRUCTION TO BE COMPLETED.
 - TREES REMOVED AS PART OF THE PROJECT SHALL BE REPLACED WHERE FEASIBLE WITH A TREE SPECIES TO BE DETERMINED IN COOPERATION WITH THE CITY OF ALEXANDRIA AND THE PROPERTY OWNER, AT THE DIRECTION OF THE CITY OF ALEXANDRIA.
- FOR THE FOLLOWING POTENTIAL NATIONAL REGISTER OF HISTORIC PLACES (NRHP) AND VIRGINIA LANDMARKS REGISTER (VLR) - ELIGIBLE WILLOW RUN APARTMENTS (DHR ID#100-5331) AND BROOKVILLE TOWNHOMES (DHR ID #100-5330) THE FOLLOWING CONDITIONS APPLY:
 - THE IMPACTS OF THE PROJECT TO THE TREES SHALL BE MINIMIZED BY REMOVING OR TRIMMING THE NECESSARY TREES AS NEEDED TO ALLOW CONSTRUCTION TO BE COMPLETED.
 - TREES REMOVED AS PART OF THE PROJECT MAY BE REPLACED WHERE FEASIBLE WITH A TREE SPECIES TO BE DETERMINED IN COOPERATION WITH THE CITY OF ALEXANDRIA AND THE PROPERTY OWNER, AT THE DIRECTION OF THE CITY OF ALEXANDRIA.
- REFER TO TREE PRESERVATION PLANS, FOR THE PROPERTIES REFERENCED ABOVE.

91	7.5"	TBD			TO BE EVALUATED AT 100% DESIGN
92	8"	TBD			TO BE EVALUATED AT 100% DESIGN
93	7"	TBD			TO BE EVALUATED AT 100% DESIGN
94	11"	TBD			TO BE EVALUATED AT 100% DESIGN
95	7"	TBD			TO BE EVALUATED AT 100% DESIGN
96	4"	TBD			TO BE EVALUATED AT 100% DESIGN
97	9"	TBD			TO BE EVALUATED AT 100% DESIGN
98	7"	TBD	X		TO BE EVALUATED AT 100% DESIGN
99	6"	TBD			TO BE EVALUATED AT 100% DESIGN
100	11"	TBD			TO BE EVALUATED AT 100% DESIGN
101	TBD	TBD			TO BE EVALUATED AT 100% DESIGN
102	TBD	TBD			TO BE EVALUATED AT 100% DESIGN
103	3"	TBD	X		TO BE EVALUATED AT 100% DESIGN
104	5"	TBD			TO BE EVALUATED AT 100% DESIGN
105	6"	TBD			TO BE EVALUATED AT 100% DESIGN
106	6"	TBD			TO BE EVALUATED AT 100% DESIGN

WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS 90% DESIGN PHASE



CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

REVISIONS	DESCRIPTION
DATE	BY

ALEXANDRIA PROJECT NO.: 110104122
DATE OF PLAN ISSUANCE: N/A
CONSULTANT PROJECT ID: N/A
DESIGNED BY: BRB DATE: 7/27/23
DRAWN BY: BRB DATE: 7/27/23
CHECKED BY: KA DATE: 7/27/23
APPROVED BY: DATE: 7/27/23

EXISTING TREE INVENTORY AND ANALYSIS

SHEET TP-1430

SCALE 1" = 25'

Plotted By: Sadr, Nasima Sheet: West End Transitway - Phase 1 Layout: Model July 27, 2023 11:27:37am K:\NVA_Transit\110104122_West_End_Transitway_Design\CADD\PlanSheets\ROADWAY_Plan.dwg

NO ENTRY
TREE PRESERVATION AREA
PROHIBIDO ENTRAR
ZONA DE PROTECCION DEL ARBOR
LLAMAR AL TEL. 703-746-6666
SI HAY REPORTES DE INFRACCIONES

NOTES:
1. TREE PROTECTION DETAIL SHALL APPLY TO ALL TREES INCLUDING STREET TREES.
2. TREE PROTECTION FENCE SHALL BE INSTALLED PRIOR TO ANY SITE WORK, CLEARING OR DEMOLITION. CITY STAFF SHALL BE NOTIFIED 72 HOURS PRIOR TO INSTALLATION OR ANY OTHER TREE PRESERVATION MEASURE SPECIFIED IN PLANS AND SHALL APPROVE LAYOUT.
3. NO PERSONNEL, VEHICLES, EQUIPMENT, CONSTRUCTION MATERIALS OR DEBRIS ALLOWED IN TREE PROTECTION AREAS. REFER TO LANDSCAPE GUIDELINES FOR ADDITIONAL RESTRICTIONS.
4. REMOVE TREE PROTECTION FENCE ONLY WITH APPROVAL FROM CITY STAFF AFTER ALL SITE WORK HAS BEEN COMPLETED.
5. SIGN MATERIAL TO BE WEATHER RESISTANT.
6. FENCE FABRIC MAY ALSO BE 2X4 WELDED WIRE FABRIC MIN. 12.5 GAUGE LAYERED WITH ORANGE SNOW FENCE FOR VISIBILITY.

A TREE PROTECTION FENCE
NOT TO SCALE

OF UPDATES: 00 LAST UPDATED:

CITY OF ALEXANDRIA, VIRGINIA STANDARD LANDSCAPE DETAILS CITY OF ALEXANDRIA, VIRGINIA		NOTE: THE INFORMATION SHOWN HEREIN THIS DOCUMENT IS FOR GENERAL GUIDANCE ONLY AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES. ITS USE SHALL NOT RELIEVE THE DESIGN PROFESSIONAL OR CONTRACTOR OF ANY LEGAL RESPONSIBILITY.	Source: City of Alexandria Approved by: COA	TREE PROTECTION FENCE Date drawn: 01/01/19 LD 014
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A ROOT PRUNING
NOT TO SCALE

OF UPDATES: 00 LAST UPDATED:

CITY OF ALEXANDRIA, VIRGINIA STANDARD LANDSCAPE DETAILS CITY OF ALEXANDRIA, VIRGINIA		NOTE: THE INFORMATION SHOWN HEREIN THIS DOCUMENT IS FOR GENERAL GUIDANCE ONLY AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES. ITS USE SHALL NOT RELIEVE THE DESIGN PROFESSIONAL OR CONTRACTOR OF ANY LEGAL RESPONSIBILITY.	Source: City of Alexandria Approved by: COA	ROOT PRUNING Date drawn: 01/01/19 LD 015
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TREES 8.1"–29.9" DBH
1" DBH = 1' CRZ RADIUS

TREES 30" DBH OR GREATER OR
TREES DESIGNATED AS SPECIMEN TREES
1" DBH = 1.5' CRZ RADIUS

TREES 8" DBH AND SMALLER
8' CRZ RADIUS AROUND THE TRUNK OF TREE

A TREE PROTECTION DETAIL FOR DETERMINING CRITICAL ROOT ZONE
NOT TO SCALE

OF UPDATES: 00 LAST UPDATED:

CITY OF ALEXANDRIA, VIRGINIA STANDARD LANDSCAPE DETAILS CITY OF ALEXANDRIA, VIRGINIA		NOTE: THE INFORMATION SHOWN HEREIN THIS DOCUMENT IS FOR GENERAL GUIDANCE ONLY AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES. ITS USE SHALL NOT RELIEVE THE DESIGN PROFESSIONAL OR CONTRACTOR OF ANY LEGAL RESPONSIBILITY.	Source: City of Alexandria Approved by: COA	CRITICAL ROOT ZONE Date drawn: 01/01/19 LD 015
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A) STANDARD TREE PRESERVATION NOTES FOR ALL PLANS REQUIRING APPROVAL:

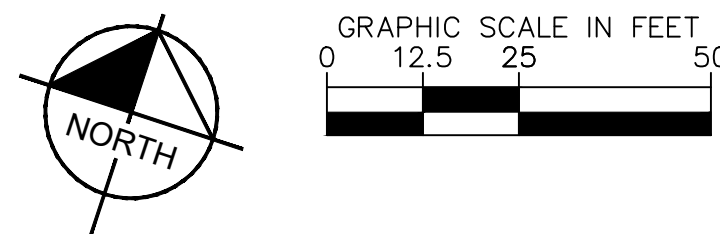
THE FOLLOWING NOTES SHALL BE PROVIDED ON LANDSCAPE PLAN SUBMISSIONS FOR ALL PROJECTS WITH PRESERVATION AREAS

- VEGETATION DESIGNATED FOR PROTECTION AND/OR PRESERVATION SHALL CONTINUOUSLY RECEIVE AN ENHANCED LEVEL OF MAINTENANCE THROUGHOUT THE ENTIRE CONSTRUCTION PERIOD.
 - MAINTENANCE SHALL BE PRO-ACTIVE.
 - MAINTENANCE OPERATIONS SHALL AGGRESSIVELY MONITOR THE HEALTH, GROWTH AND VIGOR OF VEGETATION AND PRESCRIBE SELECTIVE PRUNING, REMOVAL OF VOLUNTEER AND/OR INVASIVE SPECIES, WATERING, FERTILIZATION AND INSTALLATION OF MULCH/TOPDRESSING.
 - WHEN PRESERVED VEGETATION IS LOCATED ON CITY PROPERTY, MAINTENANCE SHALL BE PERFORMED TO THE SATISFACTION OF THE CITY.
- AREAS DESIGNATED FOR PROTECTION AND/OR PRESERVATION OF VEGETATION SHALL NOT BE ENTERED OR UTILIZED (APPROVED MAINTENANCE PROCEDURES AND WATERING EXCEPTED) THROUGHOUT THE ENTIRE CONSTRUCTION PERIOD. PROHIBITED ITEMS/ACTIVITIES INCLUDE, BUT ARE NOT LIMITED TO:
 - MODIFYING SITE TOPOGRAPHY IN A MANNER THAT DIRECTLY OR INDIRECTLY ALTERS EXISTING SITE DRAINAGE WITHIN PROTECTION ZONE INCLUDING TRENCHING OR GRADING OPERATIONS AND PLACING, STORING OR STOCKPILING SOIL OR CONSTRUCTION RELATED SUPPLIES.
 - FELLING AND STORING VEGETATION, INCLUDING MATERIALS WITHIN OR IN CLOSE PROXIMITY.
 - OPERATING MACHINERY OR EQUIPMENT, INCLUDING VEHICLE/EQUIPMENT PARKING OR STORAGE.
 - TEMPORARY OR PERMANENT UTILITY CONSTRUCTION, PILING OR INFOSOURCE SURFACE INSTALLATION.
 - DISPOSAL OF DEBRIS OR CHEMICALS VIA TEMPORARY FACILITIES OR OCCUPATION BY WORK FORCE.
 - STORAGE OF CONSTRUCTION MATERIALS OR WASTE.

A STANDARD TREE PRESERVATION NOTES
NOT TO SCALE

OF UPDATES: 00 LAST UPDATED:

CITY OF ALEXANDRIA, VIRGINIA STANDARD LANDSCAPE DETAILS CITY OF ALEXANDRIA, VIRGINIA		NOTE: THE INFORMATION SHOWN HEREIN THIS DOCUMENT IS FOR GENERAL GUIDANCE ONLY AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES. ITS USE SHALL NOT RELIEVE THE DESIGN PROFESSIONAL OR CONTRACTOR OF ANY LEGAL RESPONSIBILITY.	Source: City of Alexandria Approved by: COA	STANDARD TREE PRESERVATION PLAN NOTES Date drawn: 12/02/2019 LD 017
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WEST END TRANSITWAY – PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

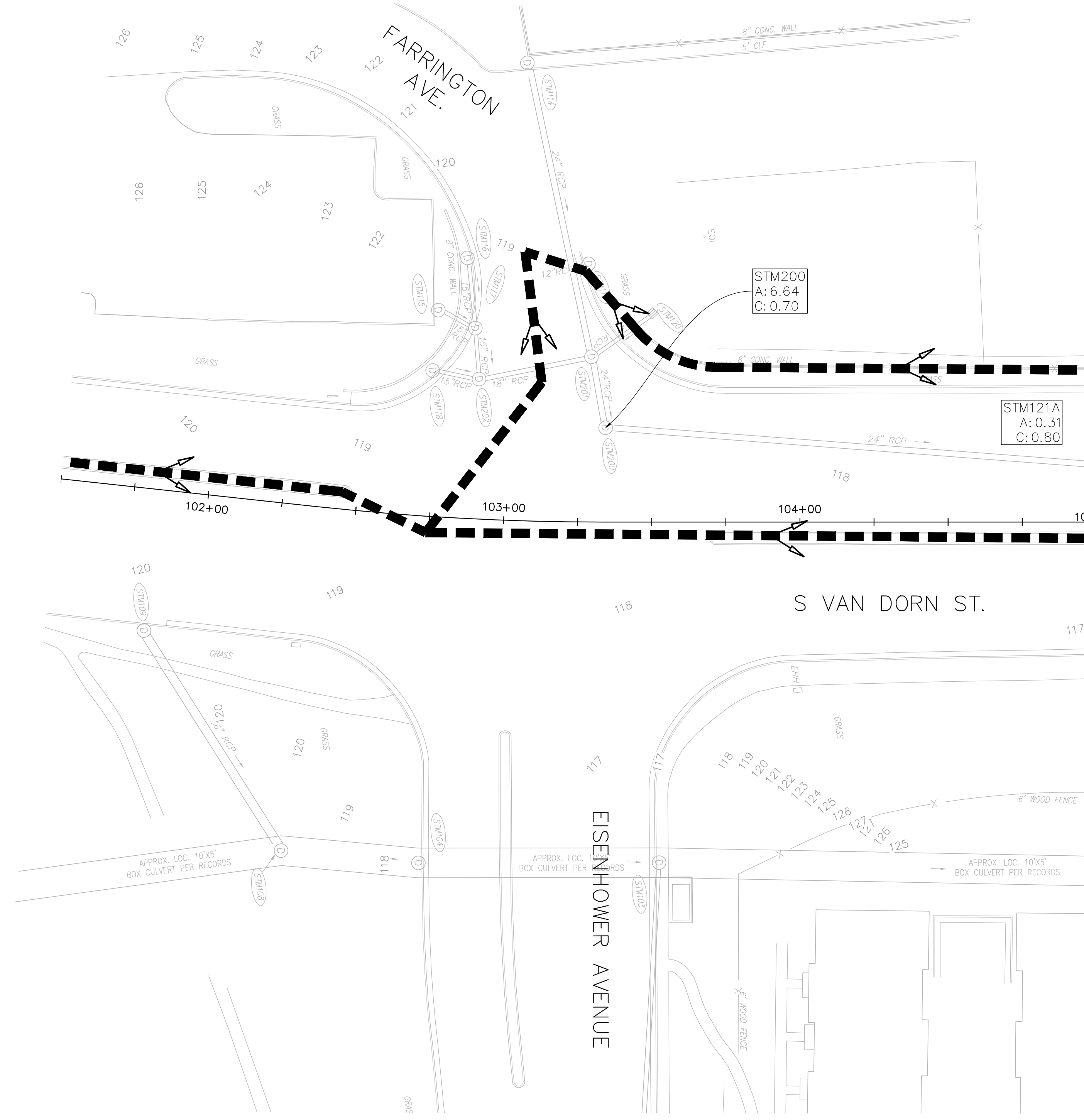
ALEXANDRIA PROJECT NO.: 110104122
DATE OF PLAN ISSUANCE: N/A
CONSULTANT PROJECT ID: N/A
DESIGNED BY: BRB DATE: 7/27/23
DRAWN BY: BRB DATE: 7/27/23
CHECKED BY: KA DATE: 7/27/23
APPROVED BY: DATE: 7/27/23

TREE PROTECTION DETAILS

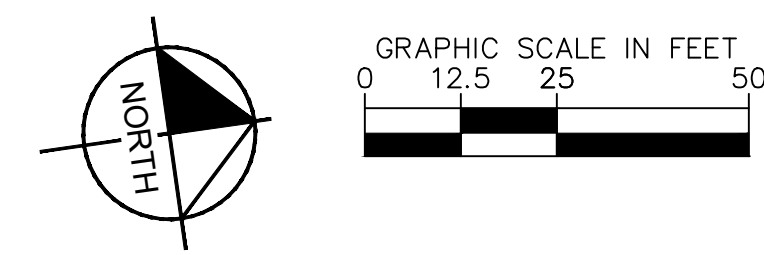
SHEET
TP-1431
SCALE 1" = 25'

REVISIONS	DATE	DESCRIPTION

EXISTING DRAINAGE AREA MAP



MATCHLINE STA. 105+00 SEE SHEET D-1502



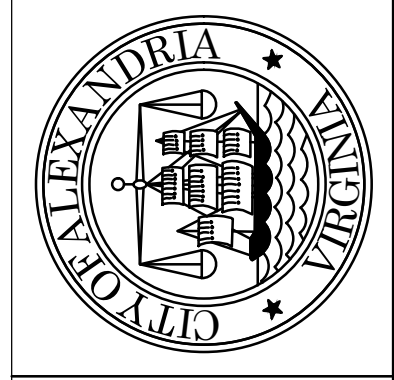
WEST END TRANSITWAY – PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

ALEXANDRIA PROJECT NO.:	110104122
DATE OF PLAN ISSUANCE:	N/A
CONSULTANT PROJECT ID.:	N/A
DESIGNED BY:	DCD DATE: 4/5/24
DRAWN BY:	NS DATE: 4/5/24
CHECKED BY:	DCD DATE: 4/5/24
APPROVED BY:	DATE:

REVISIONS	DATE	BY	DESCRIPTION

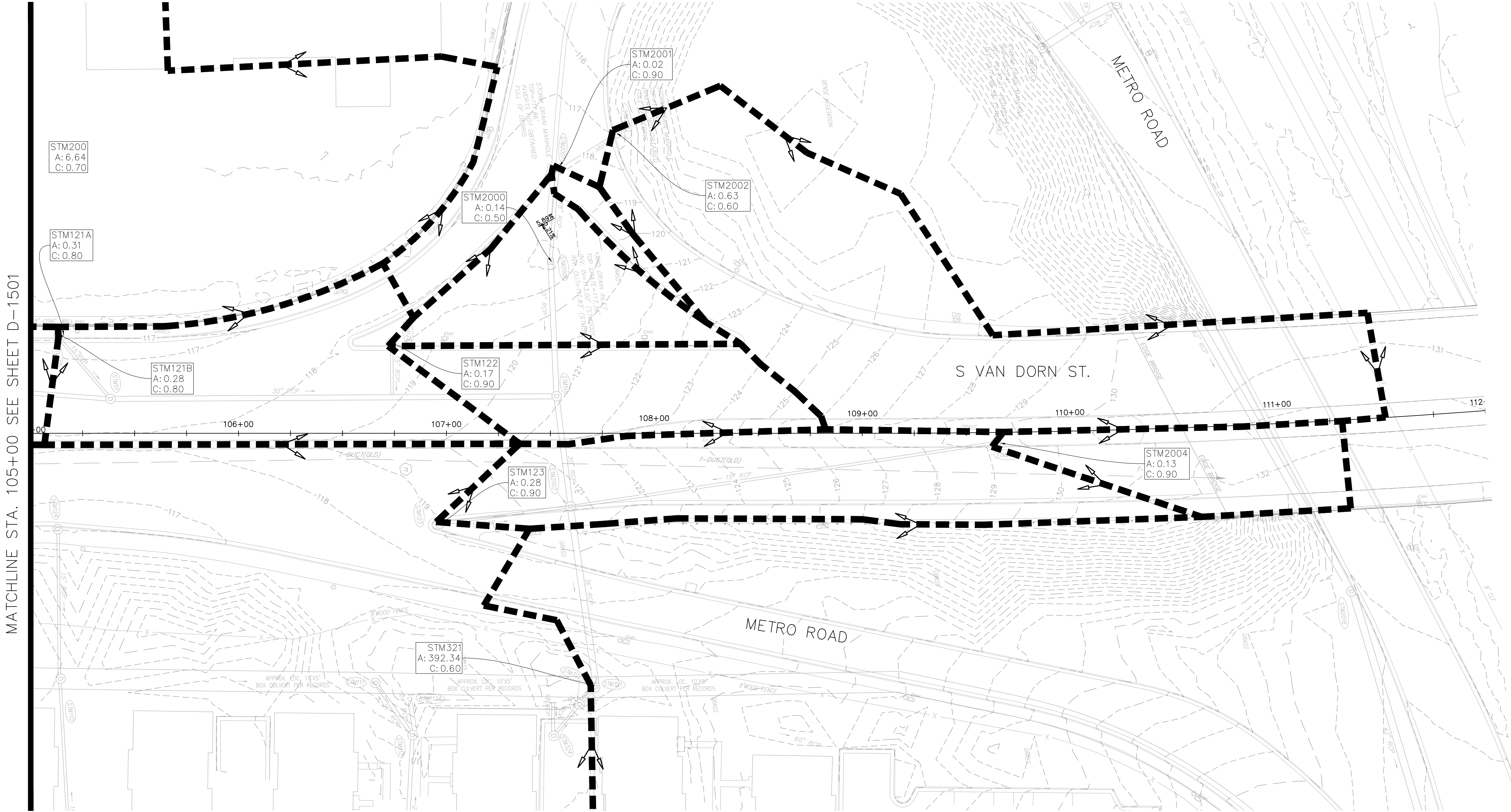
CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313



EXISTING DRAINAGE AREA MAP

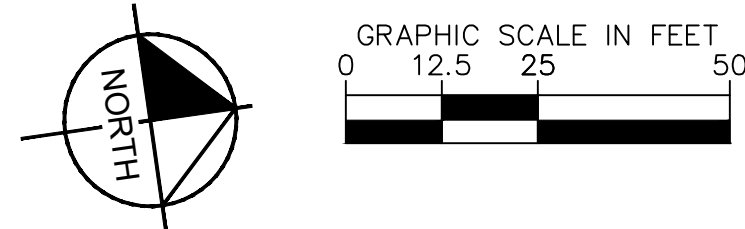
SHEET
D-1501
SCALE 1" = 25'

EXISTING DRAINAGE AREA MAP



MATCHLINE STA. 105+00 SEE SHEET D-1501

- LEGEND**
-  DRAINAGE DIVIDE BOUNDARY
 -  EXISTING CONTOUR (1FT INTERVAL)



WEST END TRANSITWAY – PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

ALEXANDRIA PROJECT NO.:	110104122
DATE OF PLAN ISSUANCE:	N/A
CONSULTANT PROJECT ID.:	N/A
DESIGNED BY:	DCD DATE: 4/5/24
DRAWN BY:	NS DATE: 4/5/24
CHECKED BY:	DCD DATE: 4/5/24
APPROVED BY:	DATE:

REVISIONS	DESCRIPTION
DATE	
BY	

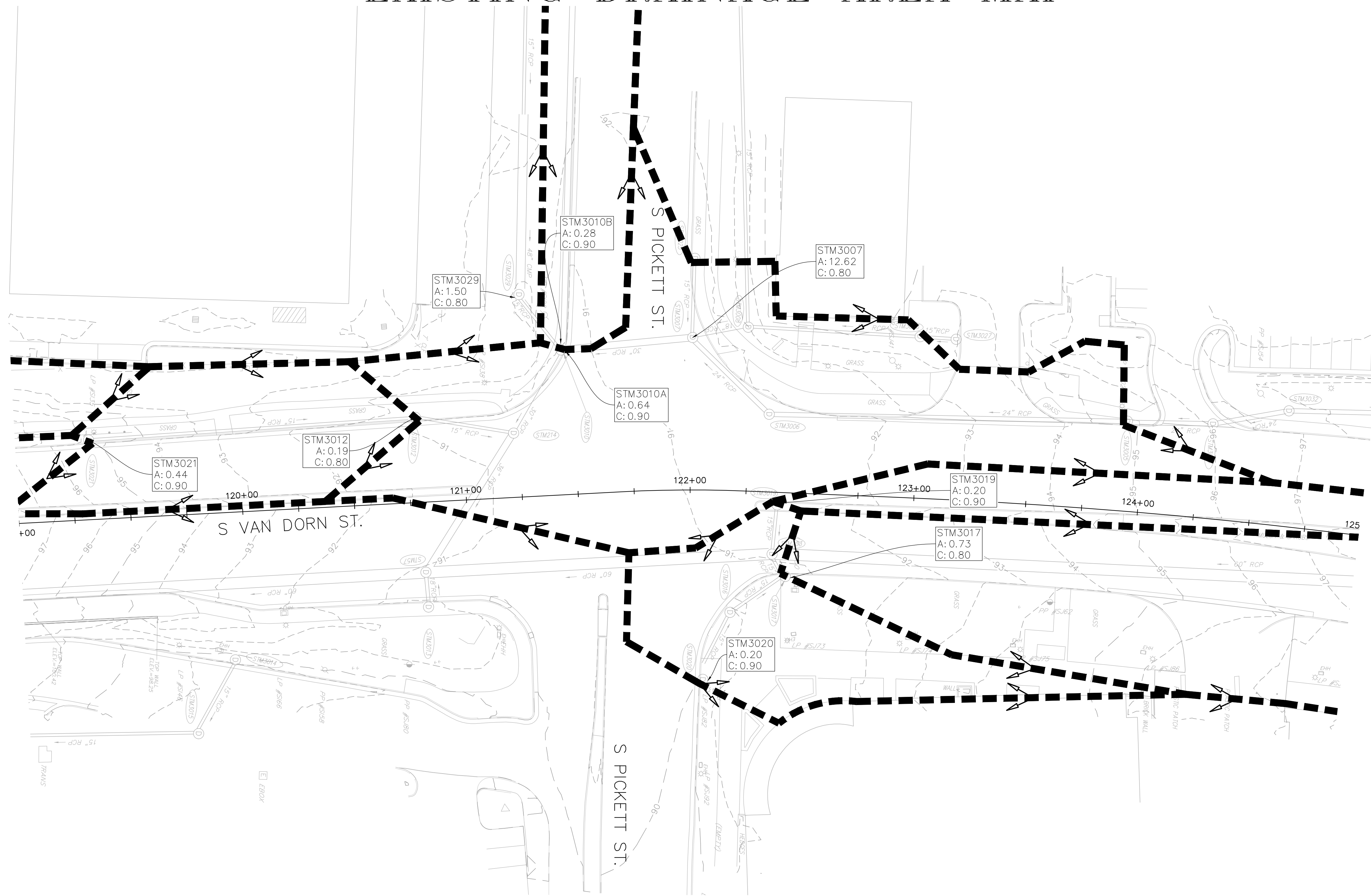
CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313



EXISTING DRAINAGE AREA MAP

SHEET D-1502
 SCALE 1" = 25'

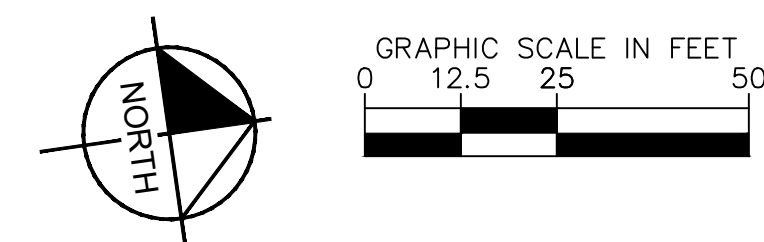
EXISTING DRAINAGE AREA MAP



LEGEND

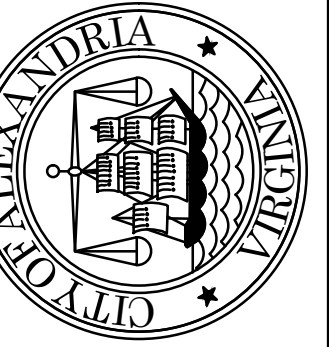
--- DRAINAGE DIVIDE BOUNDARY

- - - EXISTING CONTOUR (1FT INTERVAL)



WEST END TRANSITWAY – PHASE 1 IMPROVEMENTS

90% DESIGN PHASE



CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

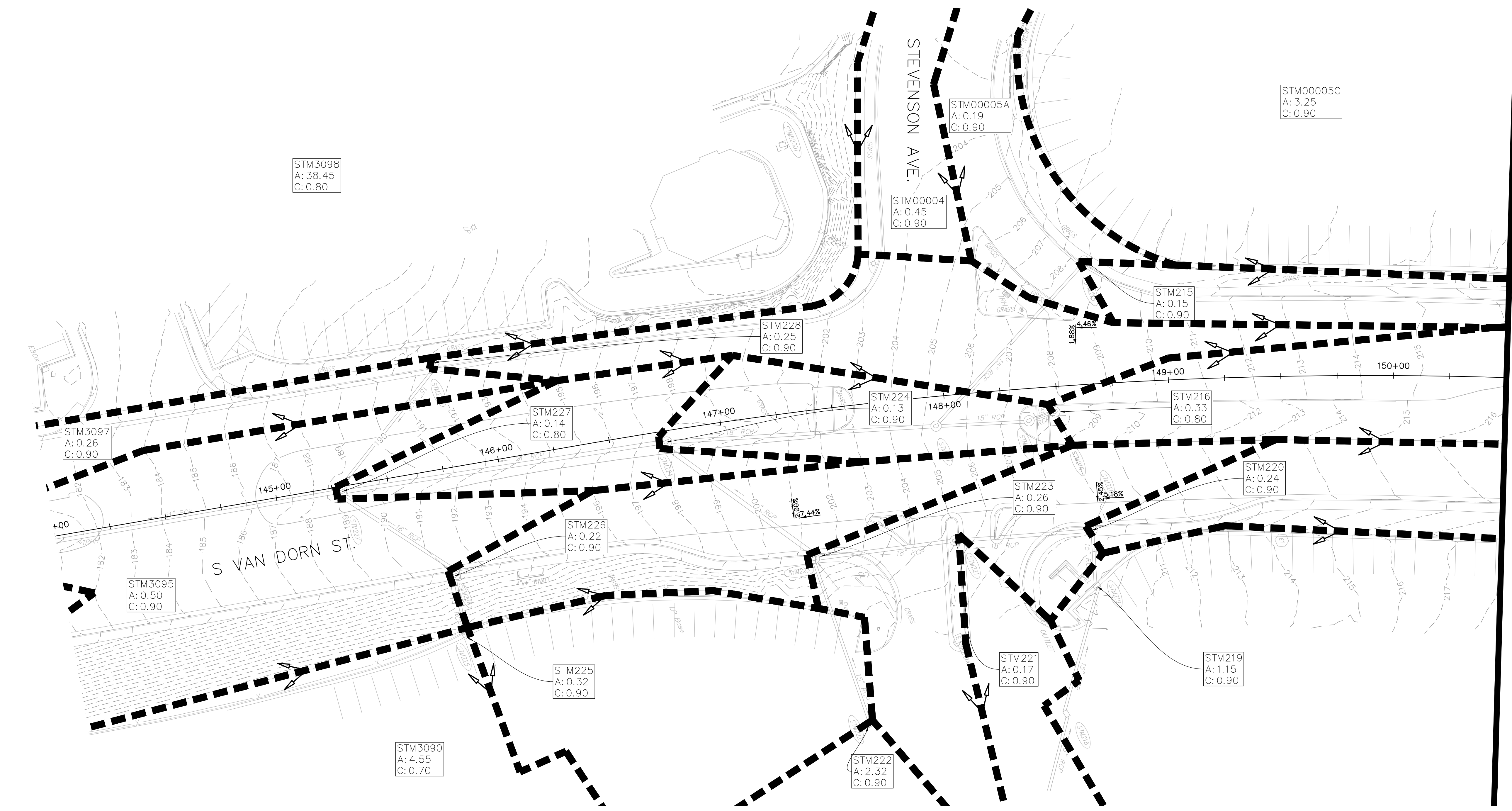
REVISIONS	DESCRIPTION
DATE	BY

ALEXANDRIA PROJECT NO.: 110104122
 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: DCD DATE: 4/5/24
 DRAWN BY: NS DATE: 4/5/24
 CHECKED BY: DCD DATE: 4/5/24
 APPROVED BY: DATE:

EXISTING DRAINAGE AREA MAP

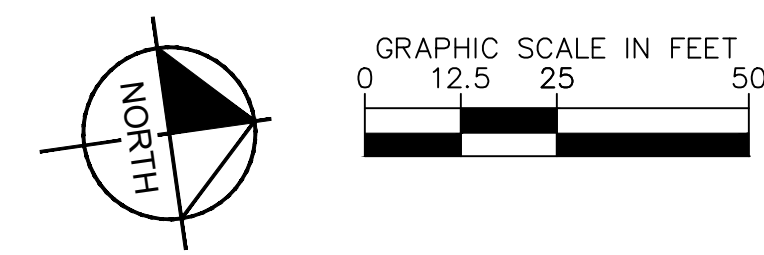
SHEET
 D-1503
 SCALE 1" = 25'

EXISTING DRAINAGE AREA MAP



LEGEND

DRAINAGE DIVIDE BOUNDARY
 EXISTING CONTOUR (1FT INTERVAL)



MATCHLINE STA. 150+50 SEE SHEET D-1505

WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

ALEXANDRIA PROJECT NO.:	110104122
DATE OF PLAN ISSUANCE:	N/A
CONSULTANT PROJECT ID.:	N/A
DESIGNED BY:	DCD DATE: 4/5/24
DRAWN BY:	NS DATE: 4/5/24
CHECKED BY:	DCD DATE: 4/5/24
APPROVED BY:	DATE:

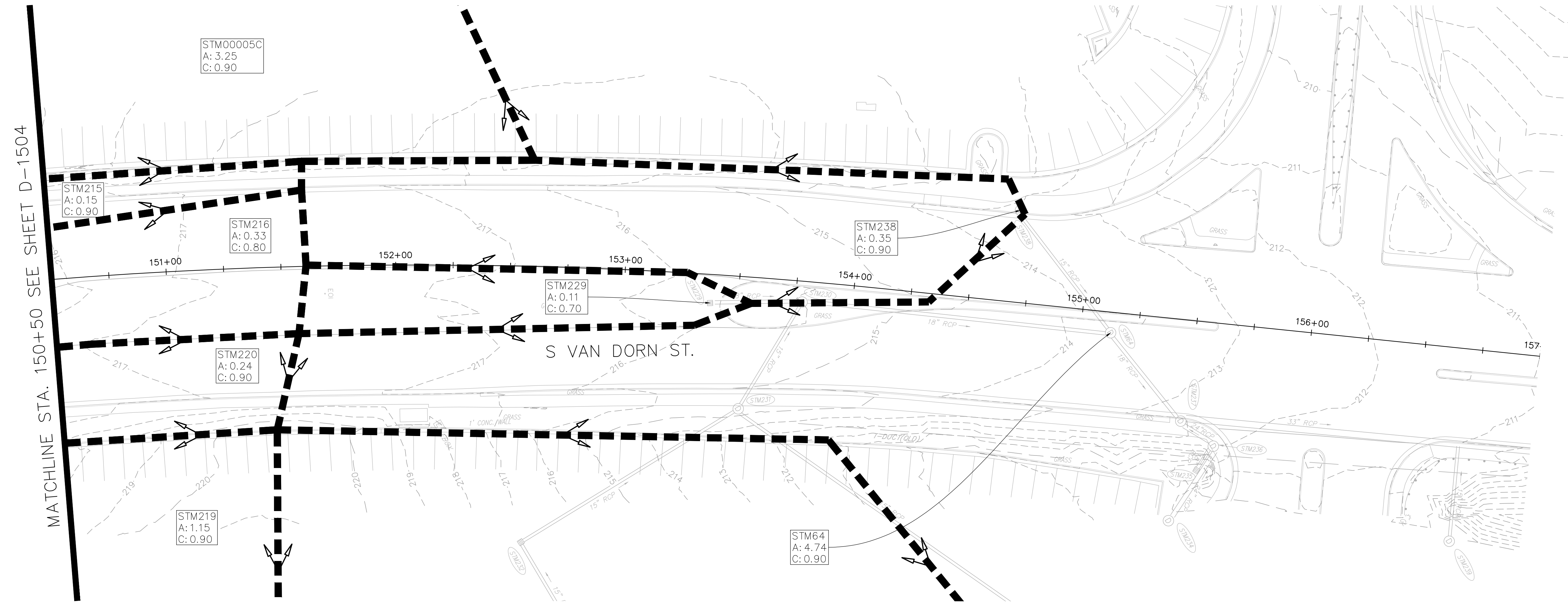
REVISIONS	DESCRIPTION

CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

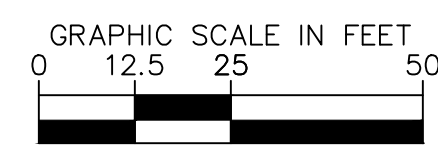
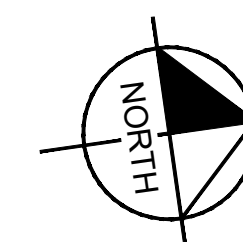


SHEET
 D-1504
 SCALE 1" = 25'

EXISTING DRAINAGE AREA MAP



- LEGEND**
-  DRAINAGE DIVIDE BOUNDARY
 -  EXISTING CONTOUR (1FT INTERVAL)



WEST END TRANSITWAY – PHASE 1 IMPROVEMENTS

EXISTING DRAINAGE
AREA MAP

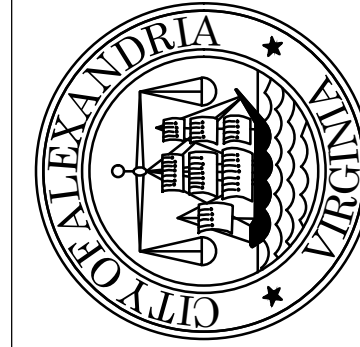
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D-1505
SCALE 1" = 25'

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DATE OF PLAN ISSUANCE:	N/A
CONSULTANT PROJECT ID.:	N/A
DESIGNED BY:	DCD DATE: 4/5/24
DRAWN BY:	NS DATE: 4/5/24
CHECKED BY:	DCD DATE: 4/5/24
APPROVED BY:	DATE:

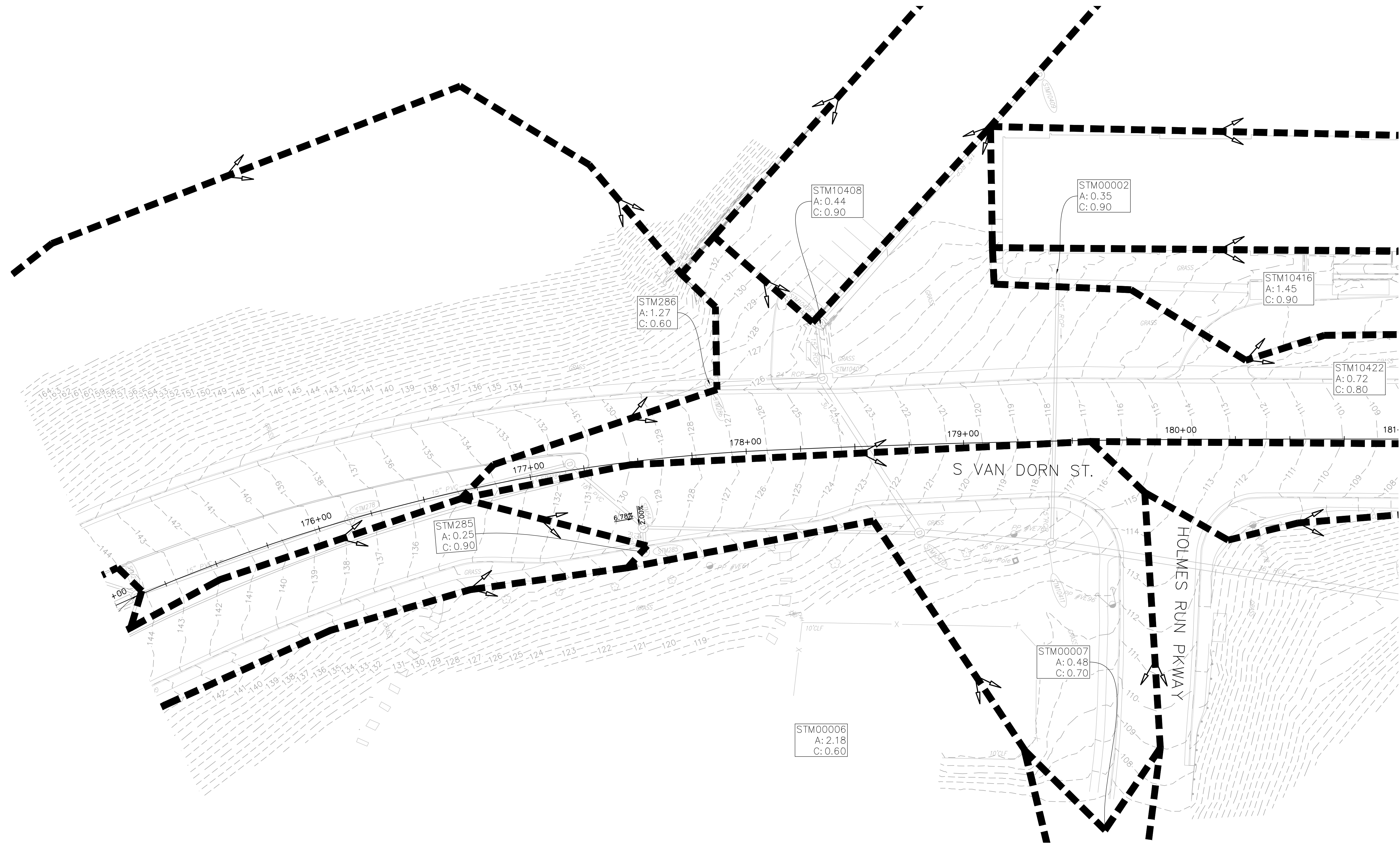
REVISIONS	DESCRIPTION
DATE	BY

90% DESIGN PHASE

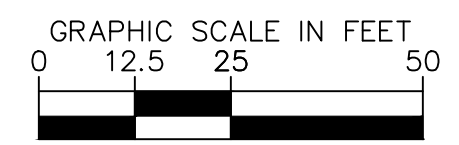
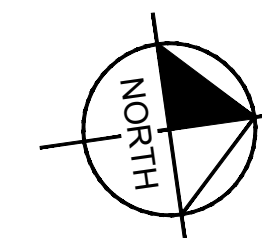
CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313



EXISTING DRAINAGE AREA MAP



- LEGEND**
- DRAINAGE DIVIDE BOUNDARY
 - EXISTING CONTOUR (1FT INTERVAL)



WEST END TRANSITWAY – PHASE 1 IMPROVEMENTS

90% DESIGN PHASE



CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

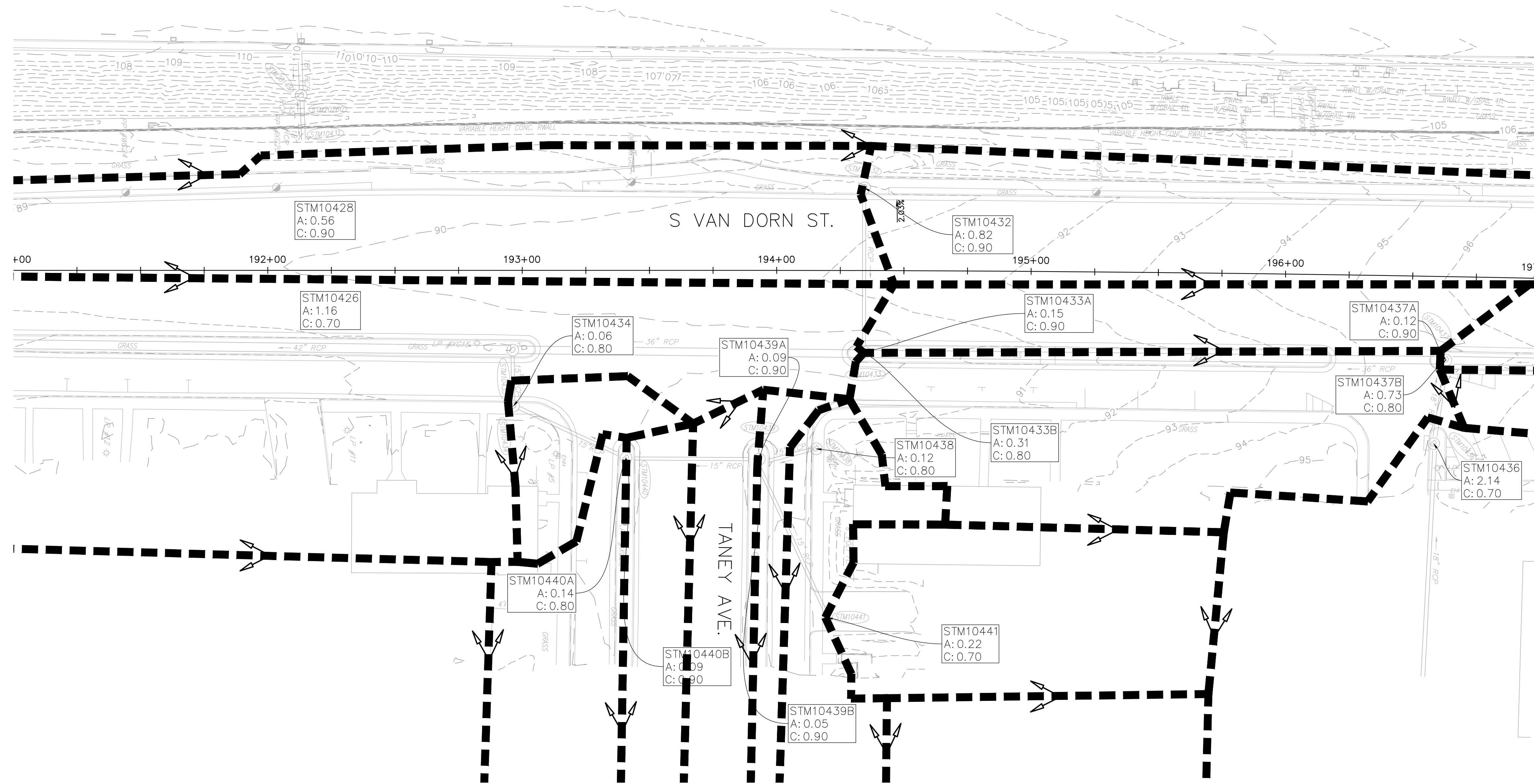
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DATE	BY

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DRAWN BY: NS DATE: 4/5/24	CHECKED BY: DCD DATE: 4/5/24
APPROVED BY: _____	DATE: _____

EXISTING DRAINAGE
 AREA MAP

SHEET
 D-1506
 SCALE 1" = 25'

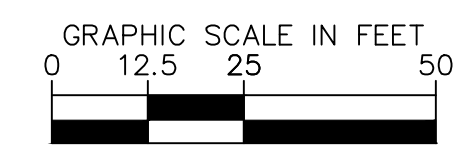
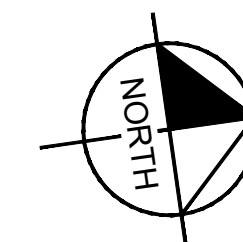
EXISTING DRAINAGE AREA MAP



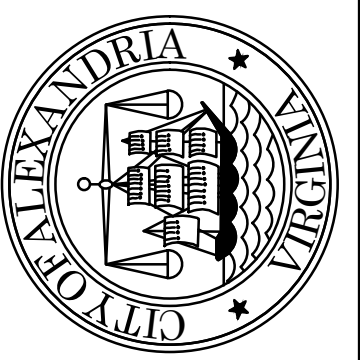
LEGEND

---> DRAINAGE DIVIDE BOUNDARY

- - - - - EXISTING CONTOUR (1FT INTERVAL)



90% DESIGN PHASE



CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

REVISIONS	DESCRIPTION
DATE	BY

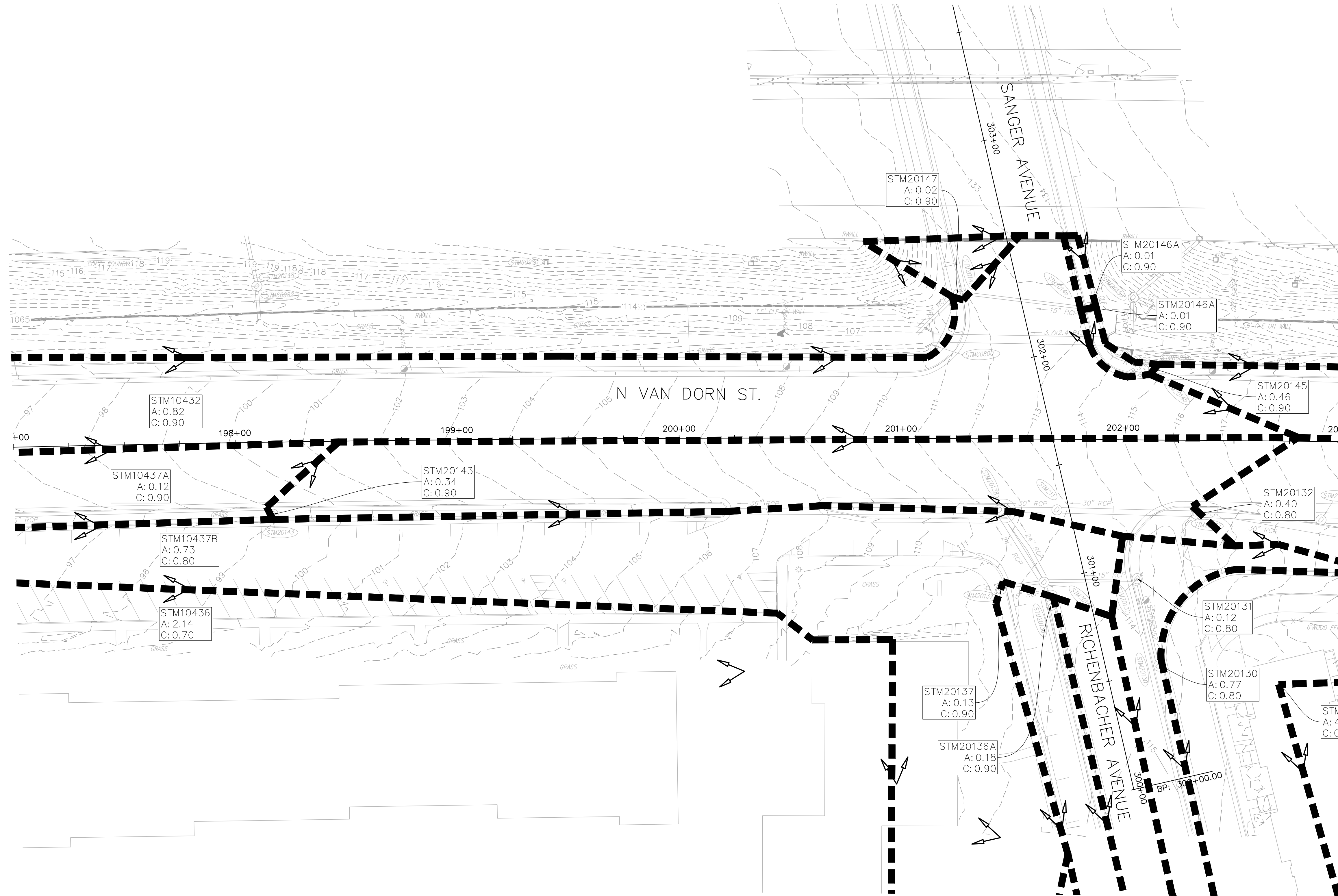
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WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

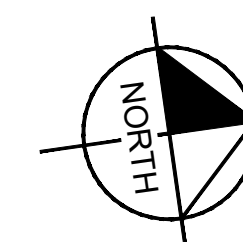
EXISTING DRAINAGE AREA MAP

SHEET D-1507
SCALE 1" = 25'

EXISTING DRAINAGE AREA MAP



- LEGEND**
- DRAINAGE DIVIDE BOUNDARY
 - EXISTING CONTOUR (1FT INTERVAL)



90% DESIGN PHASE



CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

REVISIONS	DESCRIPTION
DATE	BY

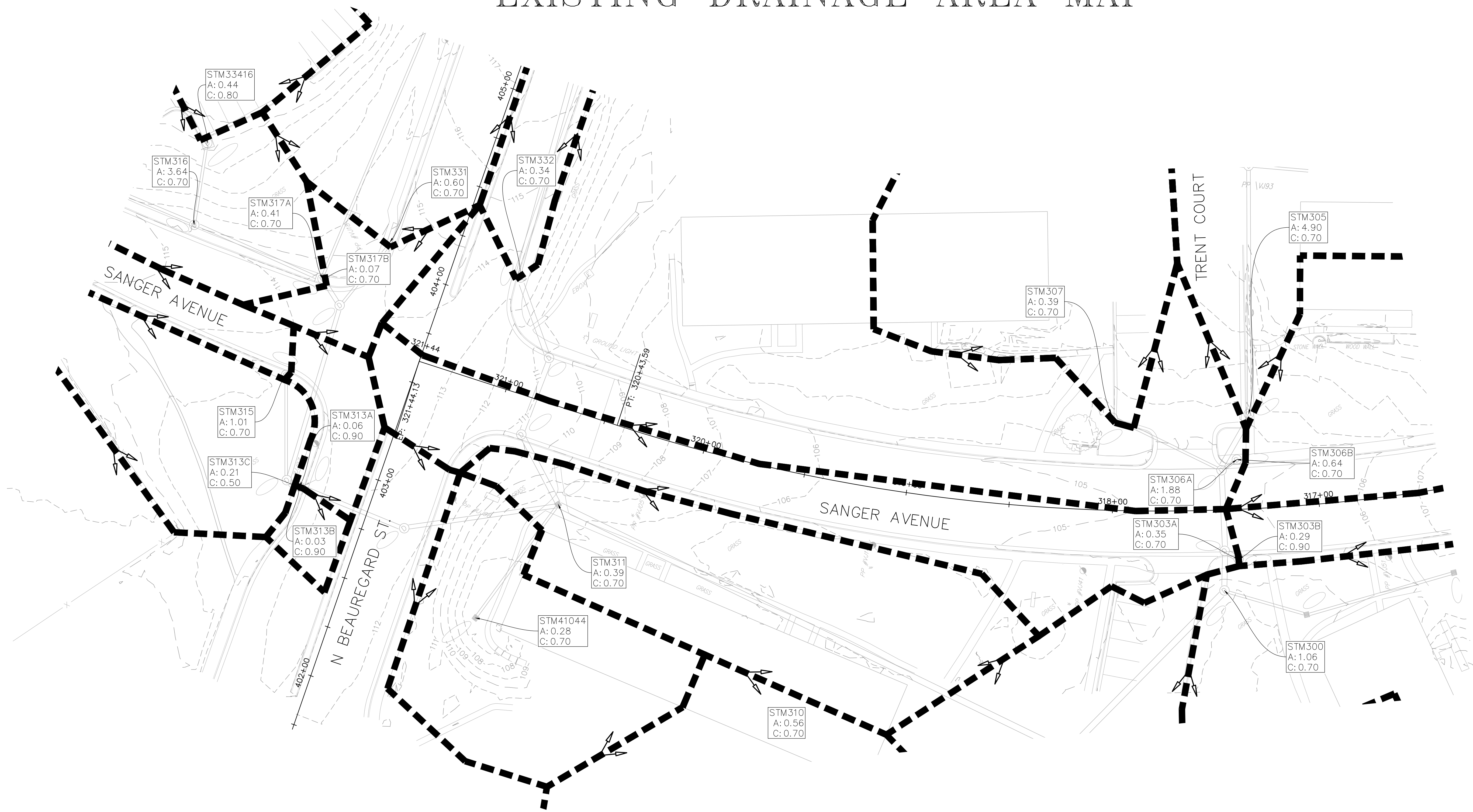
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WEST END TRANSITWAY – PHASE 1 IMPROVEMENTS

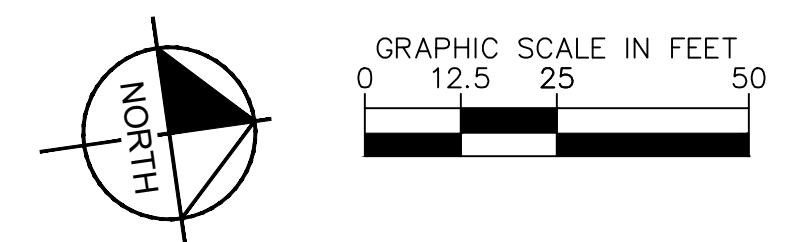
EXISTING DRAINAGE AREA MAP

SHEET
 D-1508
 SCALE 1" = 25'

EXISTING DRAINAGE AREA MAP



LEGEND
 DRAINAGE DIVIDE BOUNDARY
 EXISTING CONTOUR (1FT INTERVAL)



90% DESIGN PHASE



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REVISIONS	DESCRIPTION
DATE	BY

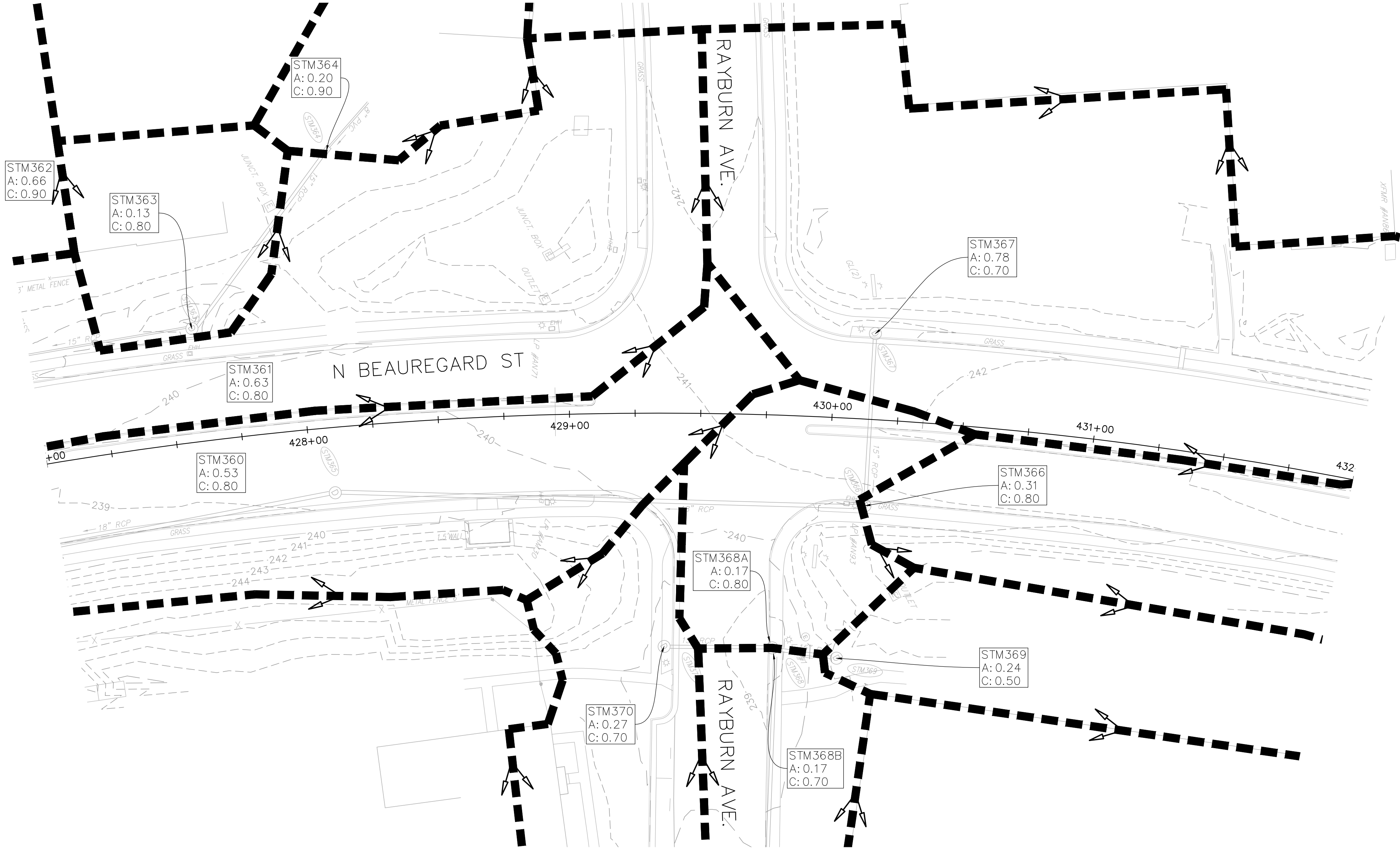
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WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

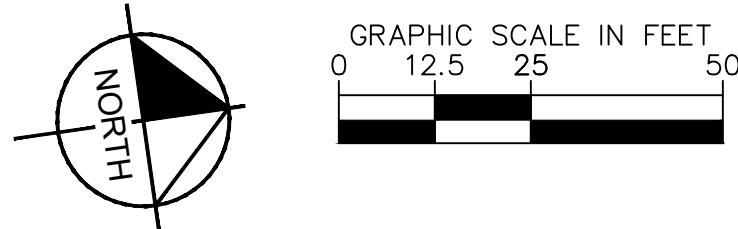
EXISTING DRAINAGE AREA MAP

SHEET
 D-1509
 SCALE 1" = 25'

EXISTING DRAINAGE AREA MAP



 DRAINAGE DIVIDE BOUNDARY
 EXISTING CONTOUR (1FT INTERVAL)



90% DESIGN PHASE



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WEST END TRANSITWAY – PHASE 1 IMPROVEMENTS

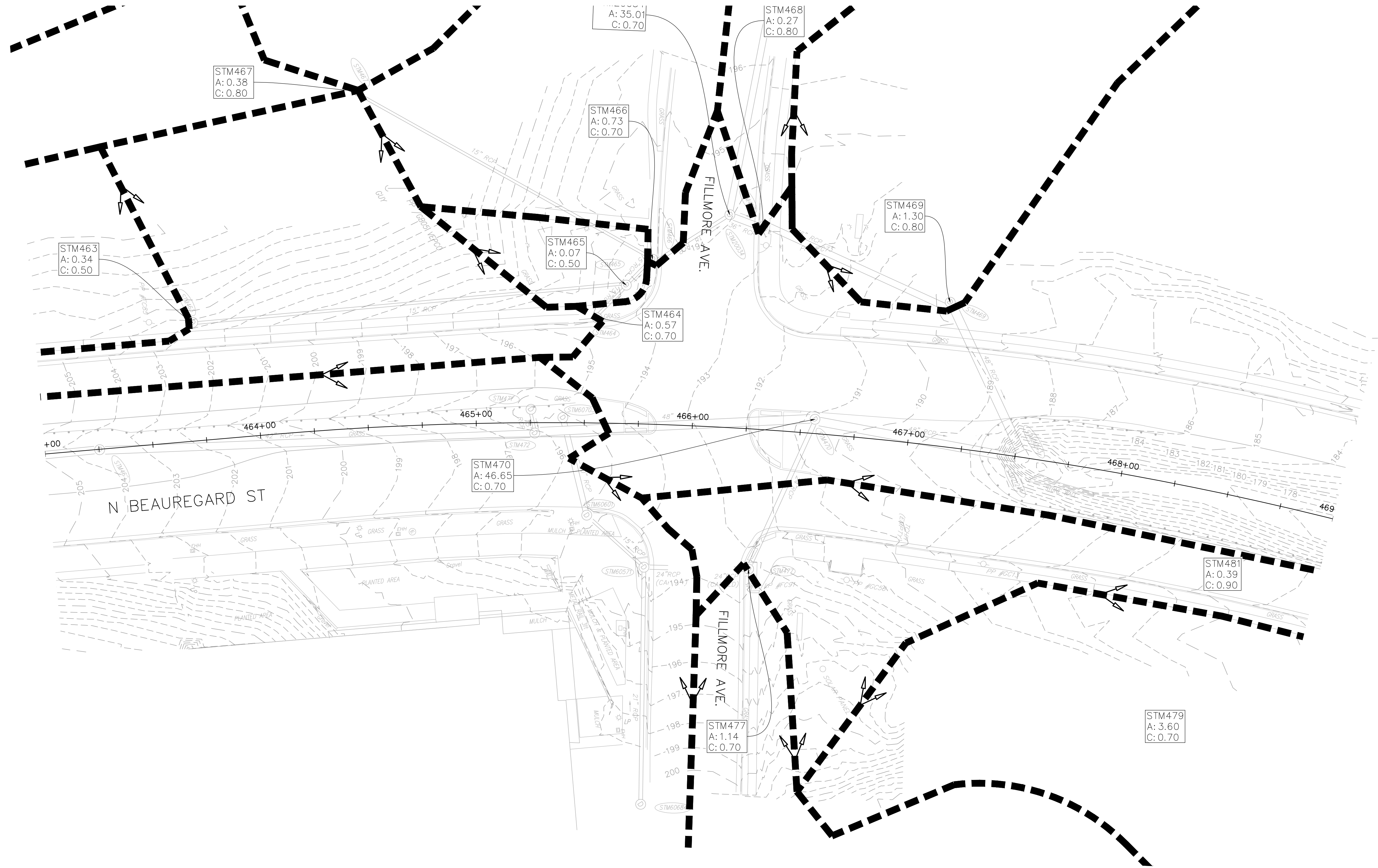
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DATE	BY


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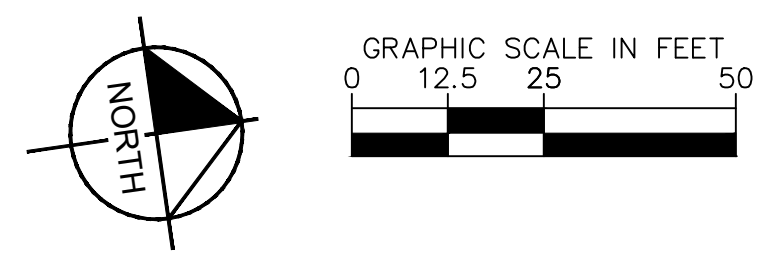
EXISTING DRAINAGE AREA MAP

SHEET
 D-1511
 SCALE 1" = 25'

EXISTING DRAINAGE AREA MAP



 DRAINAGE DIVIDE BOUNDARY
 EXISTING CONTOUR (1FT INTERVAL)



WEST END TRANSITWAY – PHASE 1 IMPROVEMENTS 90% DESIGN PHASE



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 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

REVISIONS	DESCRIPTION
DATE	BY

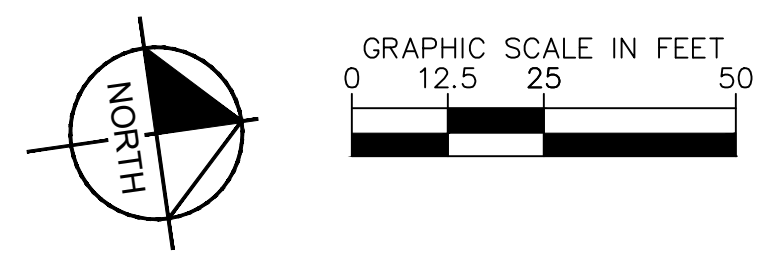
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 CHECKED BY: DCD DATE: 4/5/24
 APPROVED BY: _____ DATE: _____

EXISTING DRAINAGE AREA MAP
 SHEET D-1512
 SCALE 1" = 25'

EXISTING DRAINAGE AREA MAP



DRAINAGE DIVIDE BOUNDARY
 EXISTING CONTOUR (1FT INTERVAL)



90% DESIGN PHASE



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 DEPARTMENT OF PROJECT IMPLEMENTATION
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REVISIONS	DESCRIPTION
DATE	BY

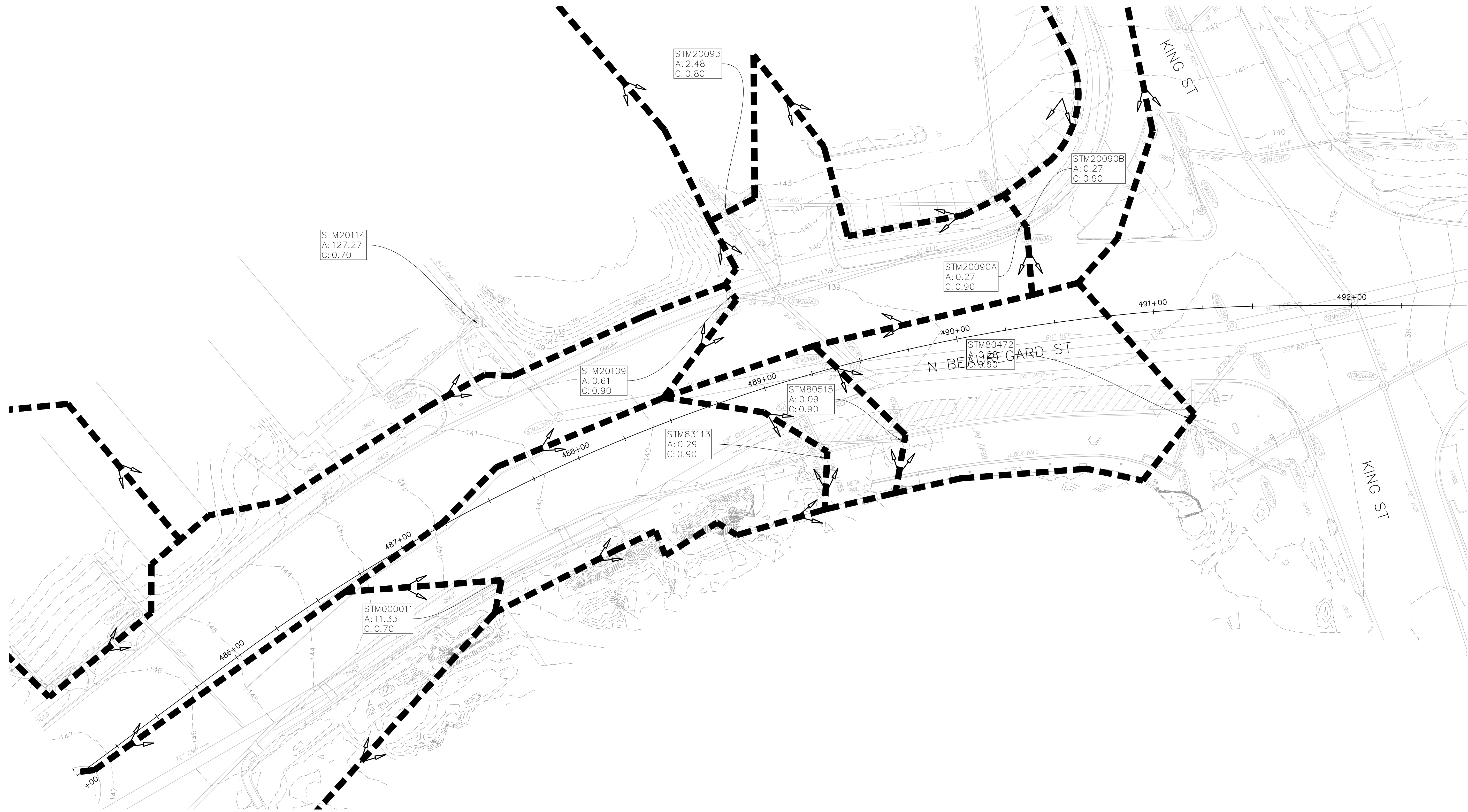
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WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

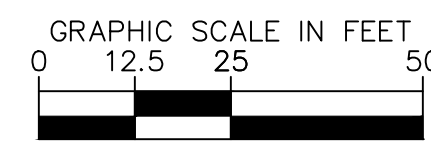
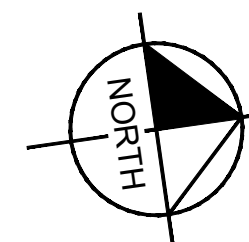
EXISTING DRAINAGE AREA MAP

SHEET
 D-1513
 SCALE 1" = 25'

EXISTING DRAINAGE AREA MAP



DRAINAGE DIVIDE BOUNDARY
 EXISTING CONTOUR (1FT INTERVAL)



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

REVISIONS	DESCRIPTION
DATE	
BY	

DATE	DESCRIPTION


CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
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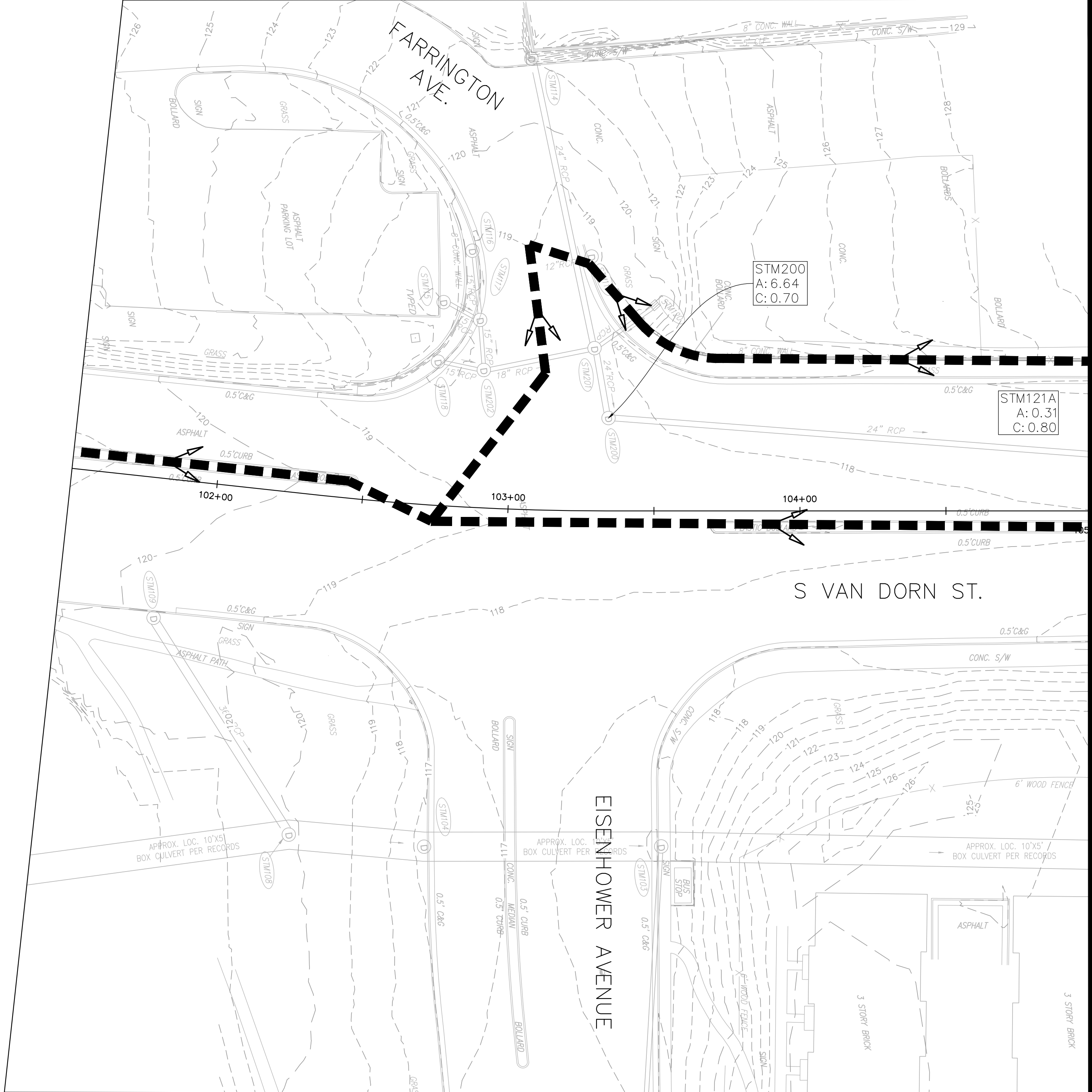
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 APPROVED BY: _____ DATE: _____

EXISTING DRAINAGE AREA MAP

SHEET
 D-1514
 SCALE 1" = 25'

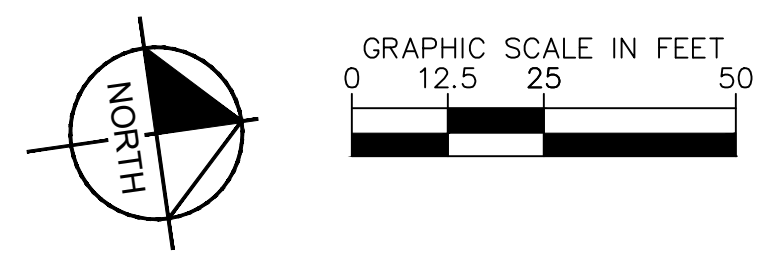
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PROPOSED DRAINAGE AREA MAP



MATCHLINE STA. 105+00 SEE SHEET D-1524

- LEGEND**
- DRAINAGE DIVIDE BOUNDARY
 - PROPOSED CONTOUR (1FT INTERVAL)
 - EXISTING CONTOUR (1FT INTERVAL)



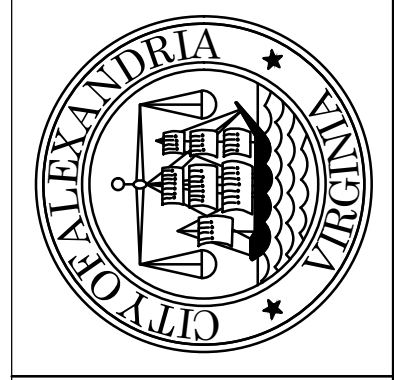
WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

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CONSULTANT PROJECT ID.:	N/A
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APPROVED BY:	DATE:

REVISIONS	DESCRIPTION
DATE	BY

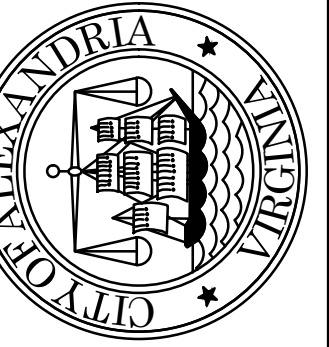
CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313



PROPOSED DRAINAGE AREA MAP

SHEET
 D-1515
 SCALE 1" = 25'

PROPOSED DRAINAGE AREA MAP



CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

90% DESIGN PHASE

WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

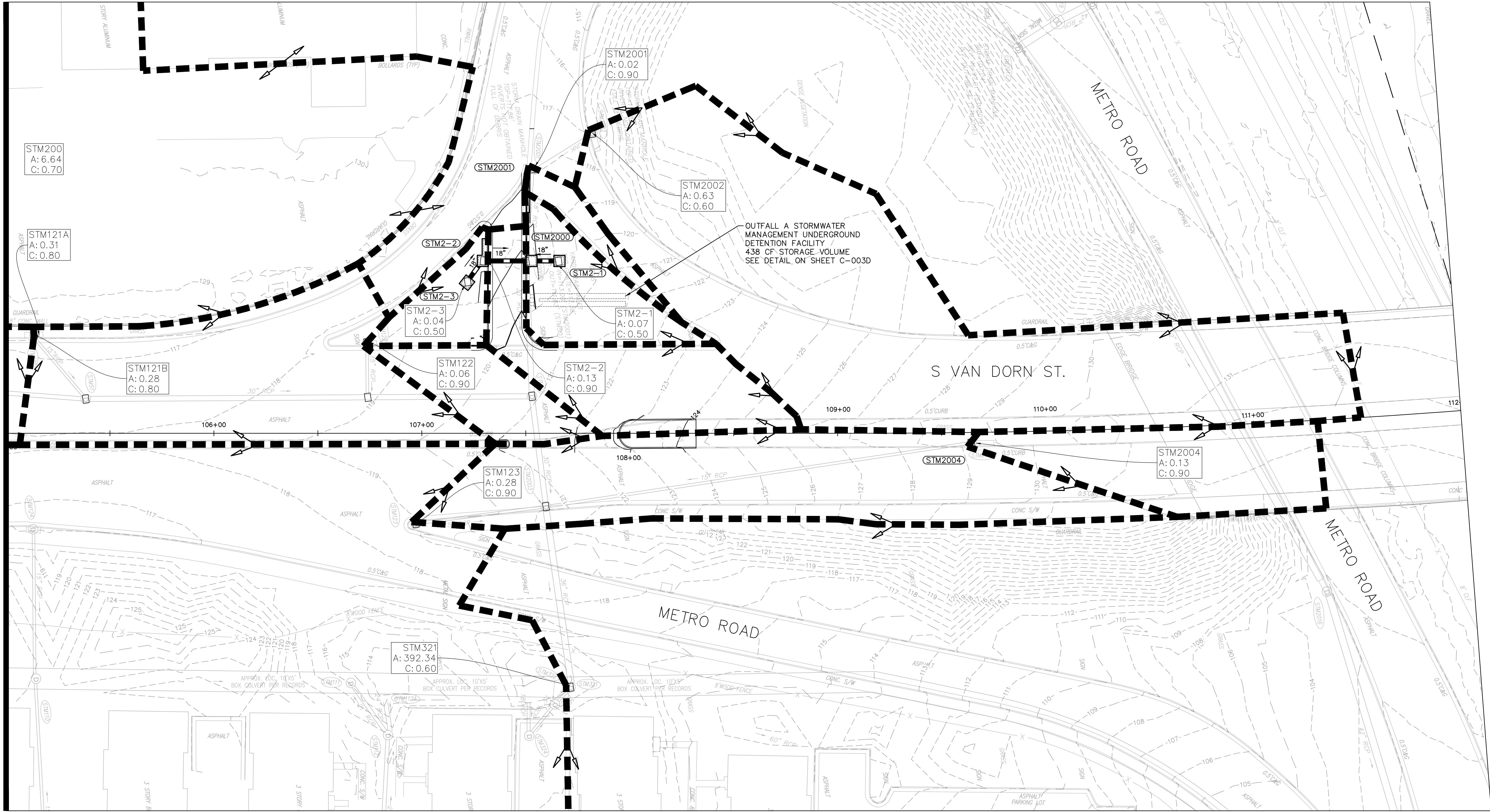
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APPROVED BY:	

PROPOSED DRAINAGE AREA MAP

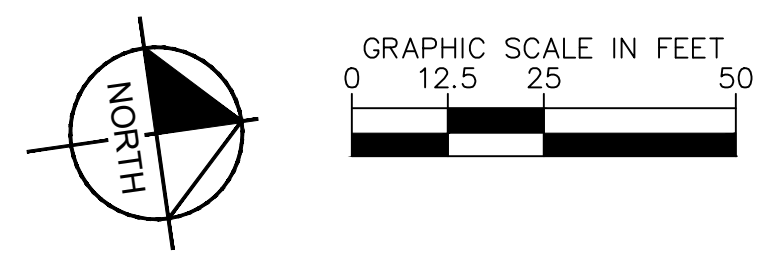
SHEET D-1516

SCALE 1" = 25'



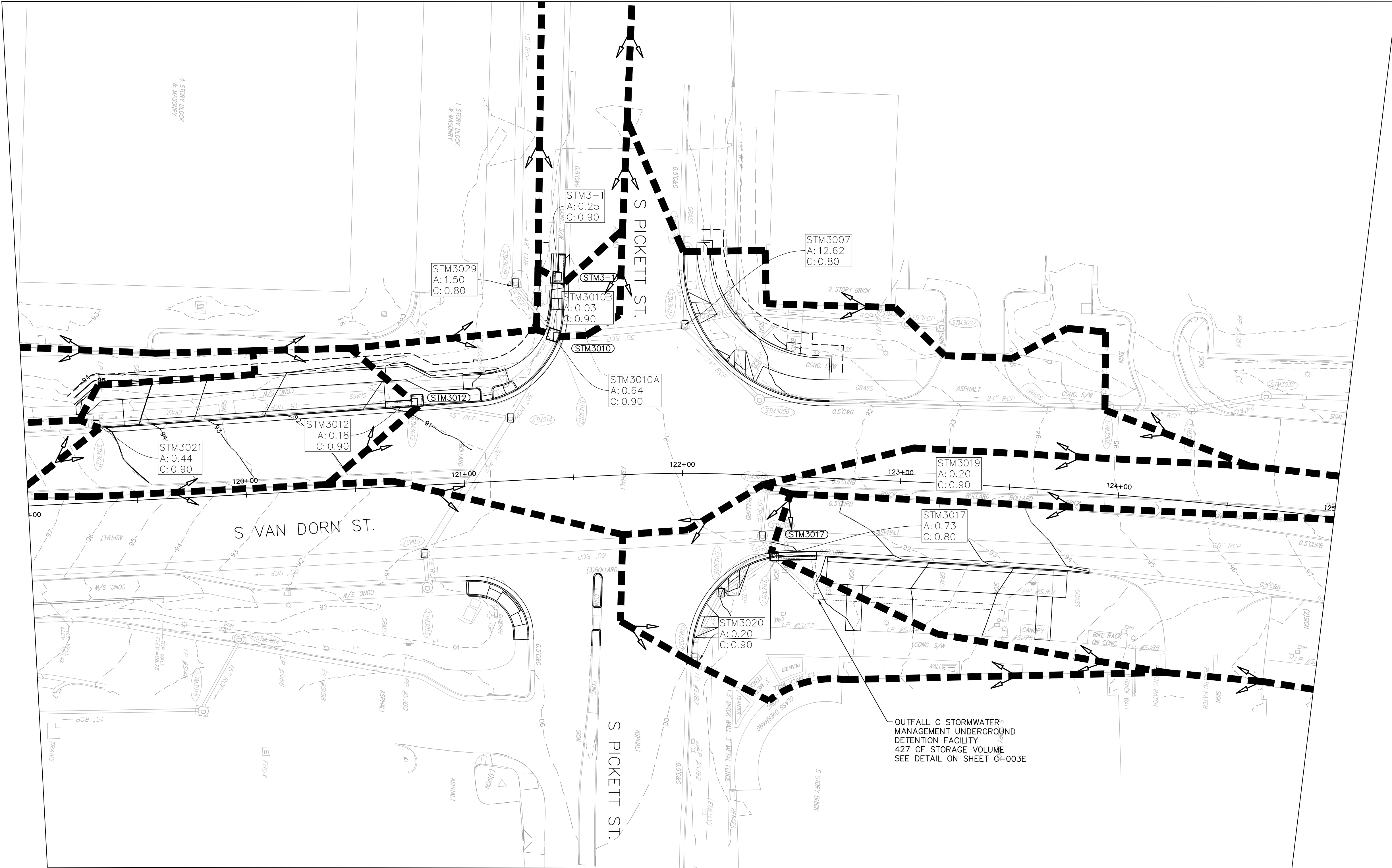
MATCHLINE STA. 105+00 SEE SHEET D-1523

- LEGEND**
- DRAINAGE DIVIDE BOUNDARY
 - PROPOSED CONTOUR (1FT INTERVAL)
 - EXISTING CONTOUR (1FT INTERVAL)

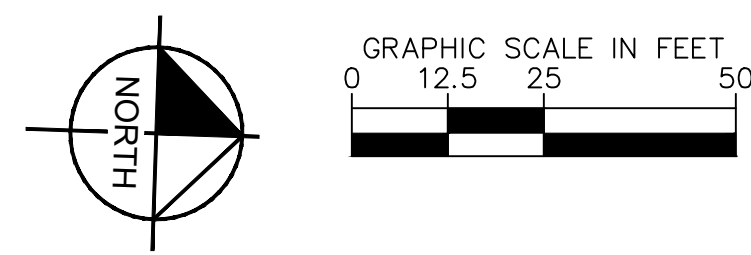


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PROPOSED DRAINAGE AREA MAP



- LEGEND**
- DRAINAGE DIVIDE BOUNDARY
 - PROPOSED CONTOUR (1FT INTERVAL)
 - EXISTING CONTOUR (1FT INTERVAL)



Plotted By: Sodr, Nasimo Sheet Set: West End Transitway - Phase 1 Layout: D-1526 PROPOSED DRAINAGE AREA MAP November 29, 2023 01:56:43pm K:\VVA_Transit\110104122_West_End_Transitway_Design\CADD\PlanSheets\PROPOSED DRAINAGE AREA MAPS.dwg

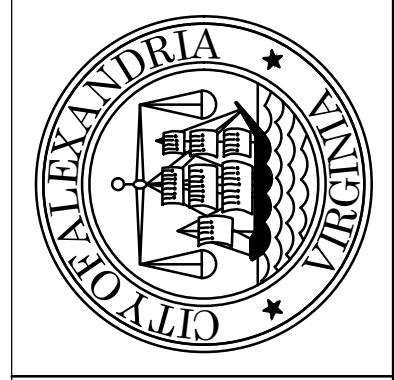
WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

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REVISIONS	DESCRIPTION

CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

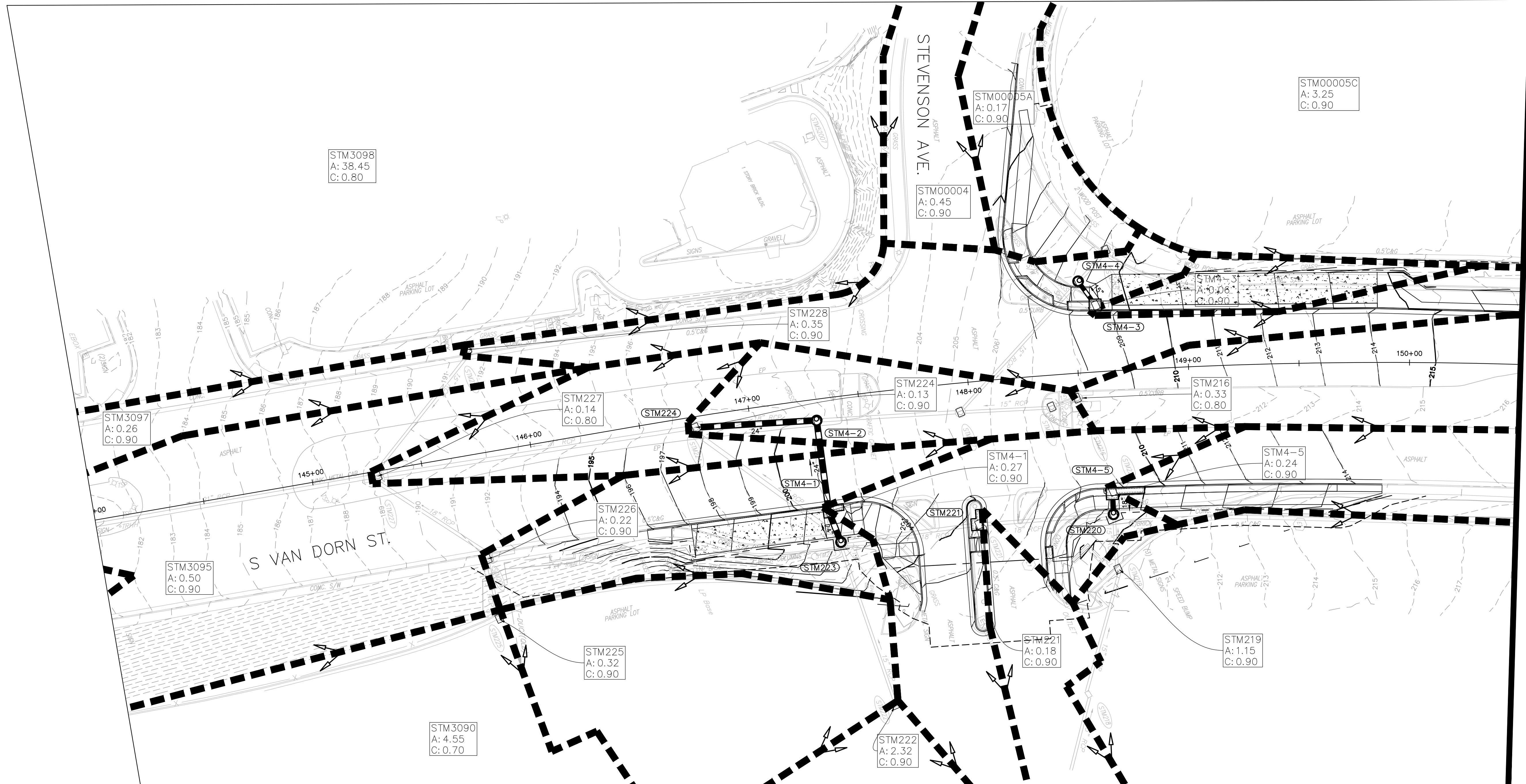


PROPOSED DRAINAGE AREA MAP

SHEET
D-1517
SCALE 1" = 25'

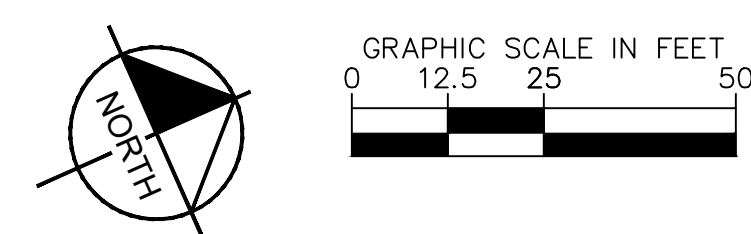
PROPOSED DRAINAGE AREA MAP

Plotted By: Sadr, Nasimo Sheet Set: West End Transitway - Phase 1 Layout: D-1526 PROPOSED DRAINAGE AREA MAP November 29, 2023 01:56:43pm K:\VVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\PROPOSED DRAINAGE AREA MAPS.dwg



MATCHLINE STA. 150+50 SEE SHEET D-1527

- LEGEND**
- DRAINAGE DIVIDE BOUNDARY
 - PROPOSED CONTOUR (1FT INTERVAL)
 - EXISTING CONTOUR (1FT INTERVAL)



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

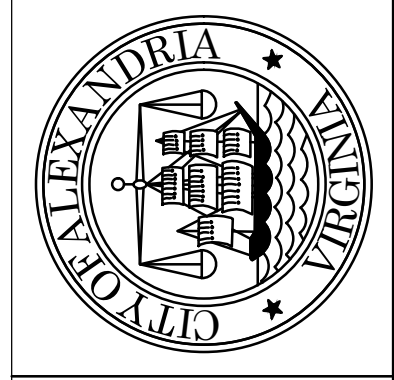
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REVISIONS	DATE	DESCRIPTION

PROPOSED DRAINAGE AREA MAP

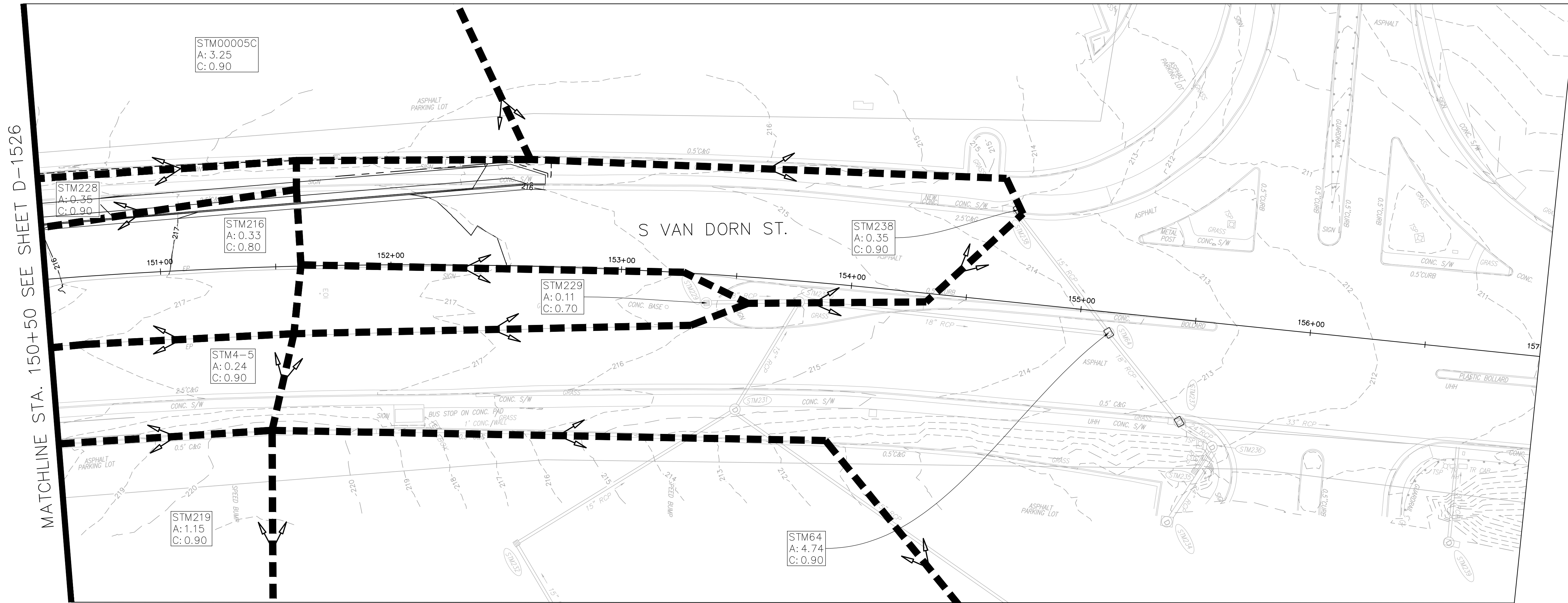
SHEET
D-1518
SCALE 1" = 25'

CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313



PROPOSED DRAINAGE AREA MAP

Plotted By: Sadr, Nasimo Sheet Set: West End Transitway - Phase 1 Layout: D-1526 PROPOSED DRAINAGE AREA MAP November 29, 2023 01:58:43pm K:\VVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\PROPOSED DRAINAGE AREA MAPS.dwg



- LEGEND**
- DRAINAGE DIVIDE BOUNDARY
 - PROPOSED CONTOUR (1FT INTERVAL)
 - EXISTING CONTOUR (1FT INTERVAL)



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

ALEXANDRIA PROJECT NO.: 110104122

DATE OF PLAN ISSUANCE:	N/A
CONSULTANT PROJECT ID:	N/A
DESIGNED BY:	BA DATE: 4/5/24
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REVISIONS	DESCRIPTION
DATE	BY

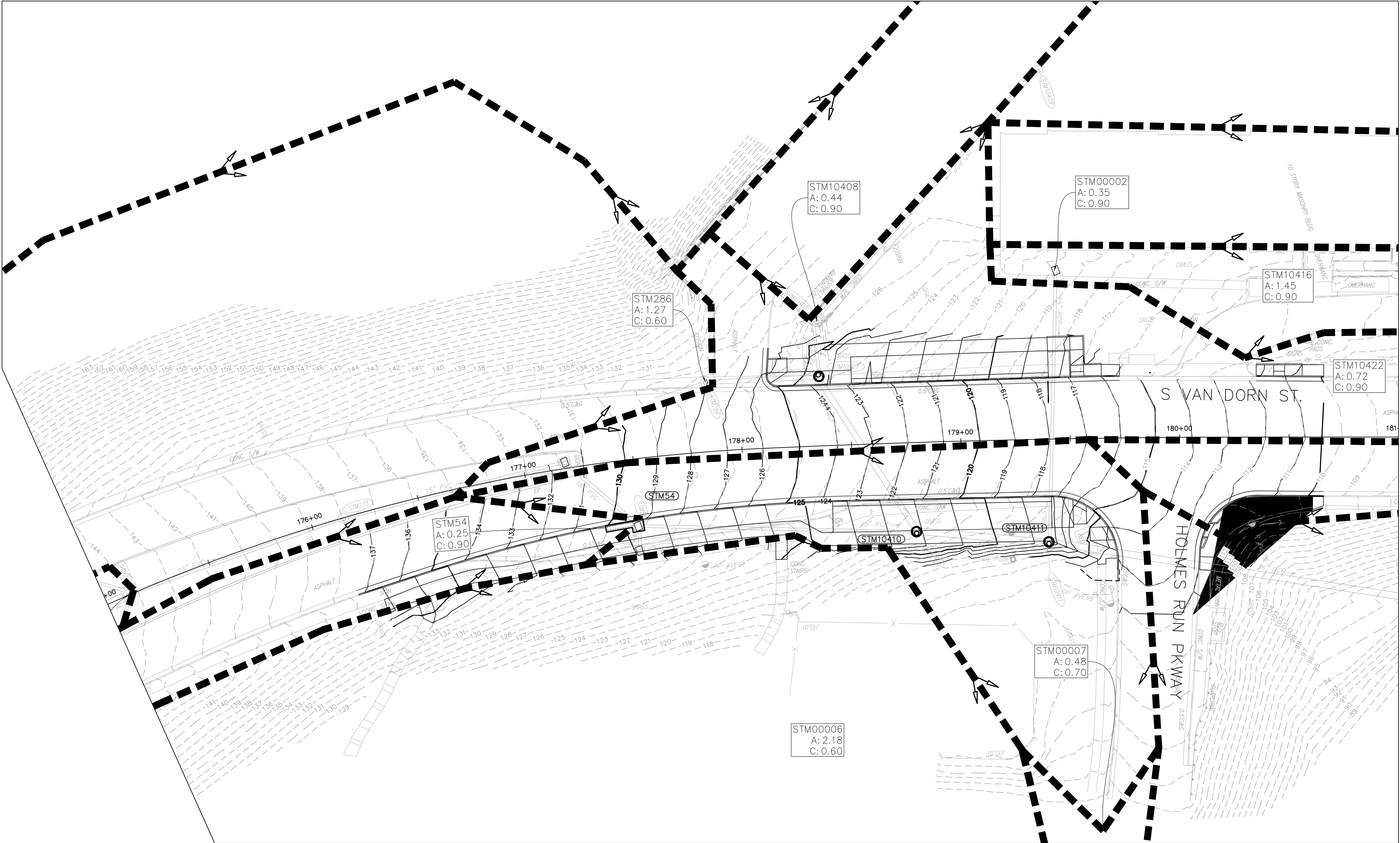
CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313



PROPOSED DRAINAGE AREA MAP

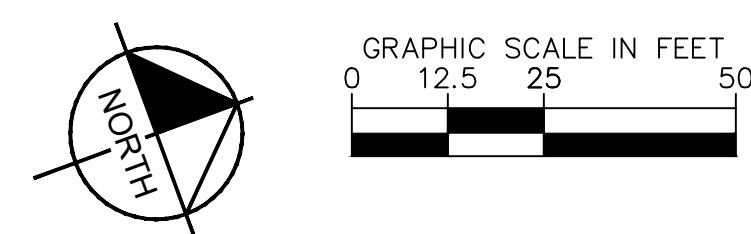
 SHEET
 D-1519
 SCALE 1" = 25'

PROPOSED DRAINAGE AREA MAP



LEGEND

	DRAINAGE DIVIDE BOUNDARY
	PROPOSED CONTOUR (1FT INTERVAL)
	EXISTING CONTOUR (1FT INTERVAL)



Plotted By: Sadr, Nasimo Sheet Set: West End Transitway - Phase 1 Layout: D-1526 PROPOSED DRAINAGE AREA MAP November 29, 2023 01:56:43pm K:\VVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\PROPOSED DRAINAGE AREA MAPS.dwg

WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

REVISIONS	DATE	DESCRIPTION

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CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

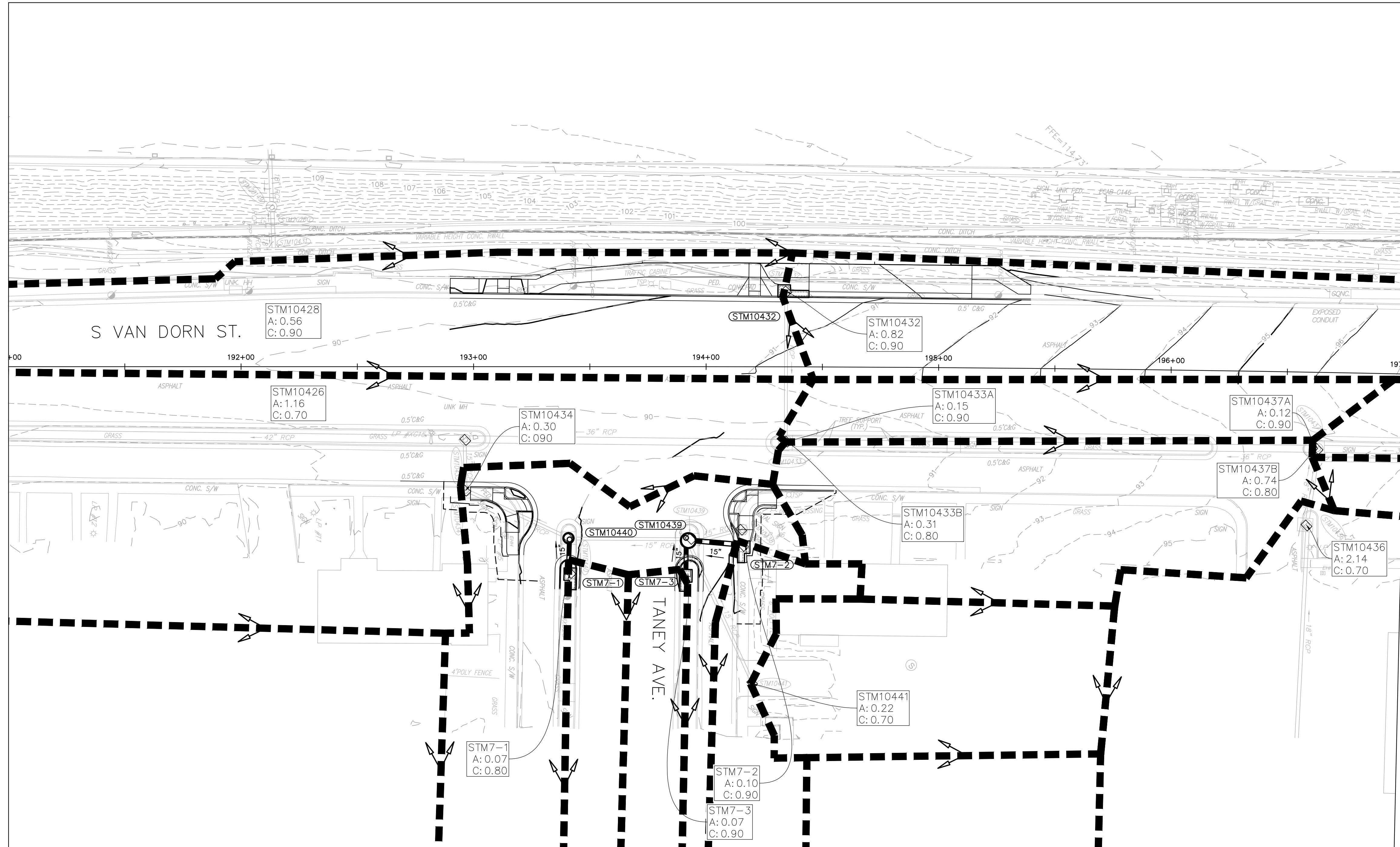


PROPOSED DRAINAGE AREA MAP

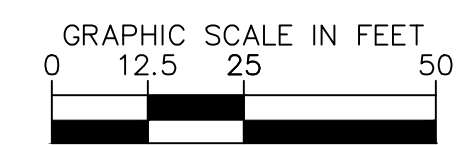
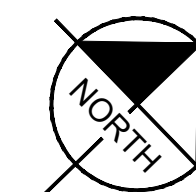
SHEET D-1520

SCALE 1" = 25'

PROPOSED DRAINAGE AREA MAP



- LEGEND**
- DRAINAGE DIVIDE BOUNDARY
 - PROPOSED CONTOUR (1FT INTERVAL)
 - EXISTING CONTOUR (1FT INTERVAL)



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

PROPOSED DRAINAGE AREA MAP

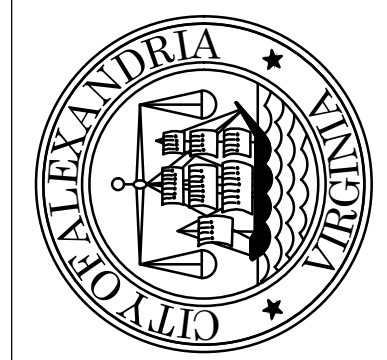
SHEET
D-1521
SCALE 1" = 25'

90% DESIGN PHASE

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301 KING STREET
ALEXANDRIA, VIRGINIA 22313

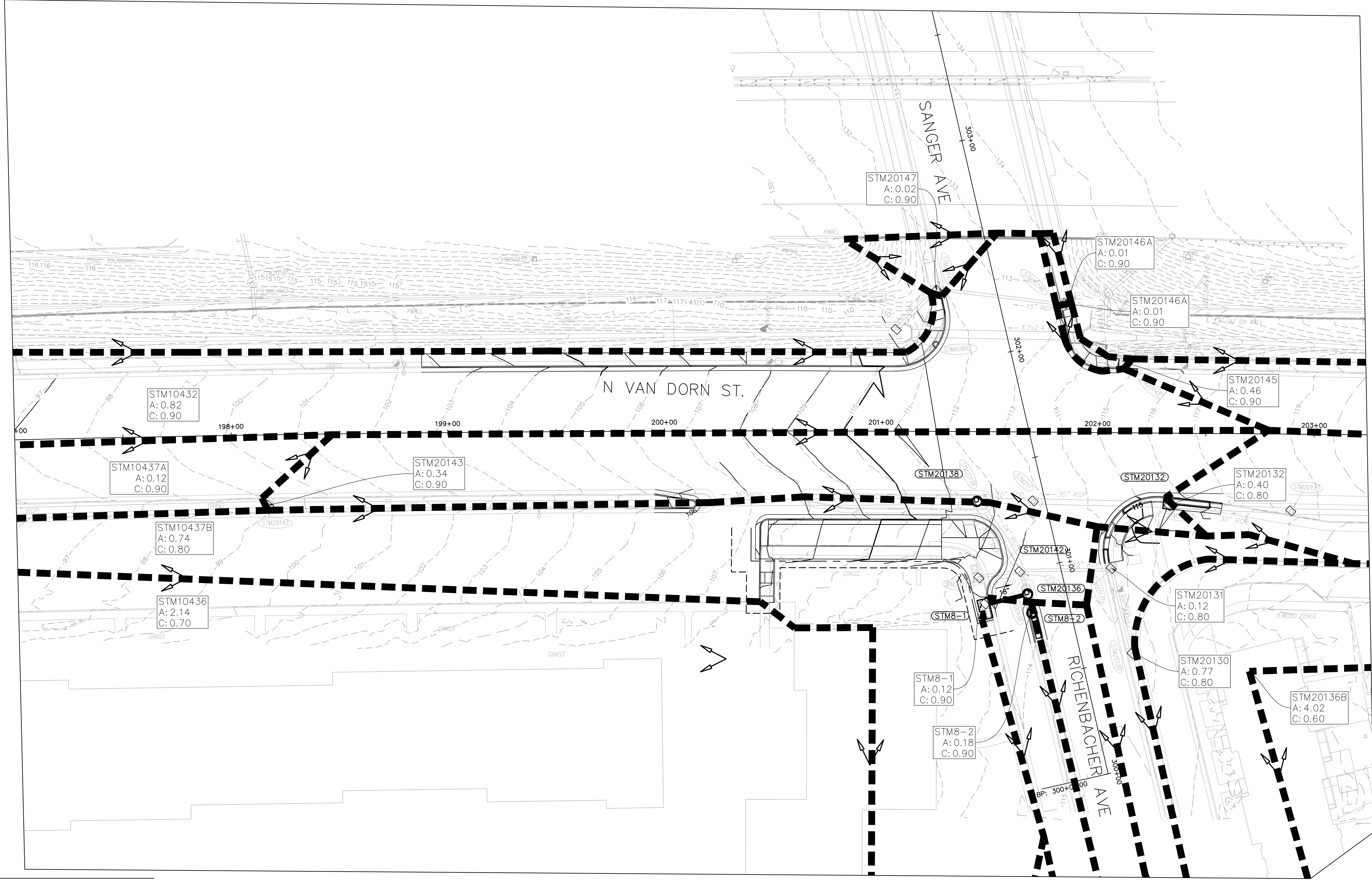
REVISIONS	DATE	DESCRIPTION

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DATE OF PLAN ISSUANCE: N/A
CONSULTANT PROJECT ID: N/A
DESIGNED BY: BA DATE: 4/5/24
DRAWN BY: NS DATE: 4/5/24
CHECKED BY: DD DATE: 4/5/24
APPROVED BY: DATE:

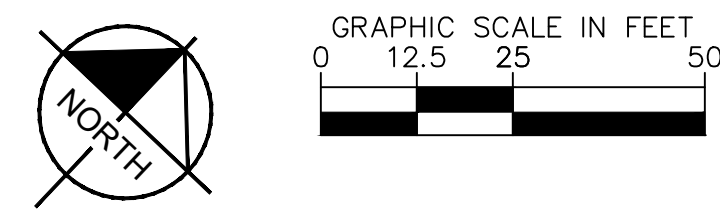


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PROPOSED DRAINAGE AREA MAP



- LEGEND**
- DRAINAGE DIVIDE BOUNDARY
 - PROPOSED CONTOUR (1FT INTERVAL)
 - EXISTING CONTOUR (1FT INTERVAL)



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WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

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ALEXANDRIA PROJECT NO.:	110104122
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REVISIONS	DESCRIPTION
BY	
DATE	

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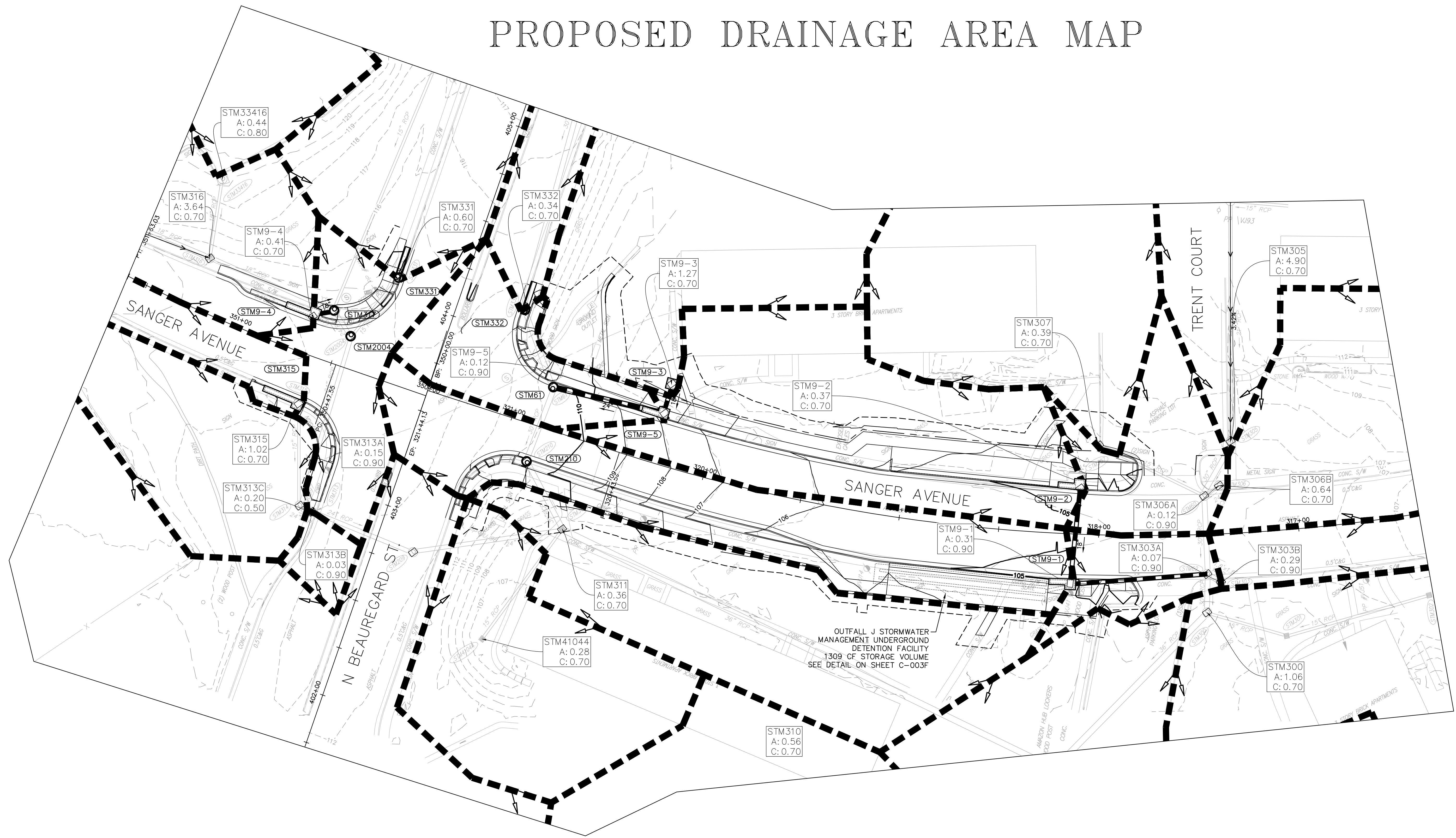


PROPOSED DRAINAGE AREA MAP

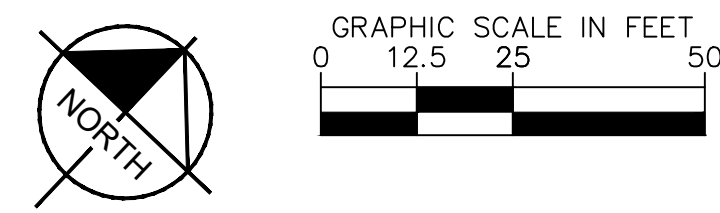
SHEET
D-1522
SCALE 1" = 25'

PROPOSED DRAINAGE AREA MAP

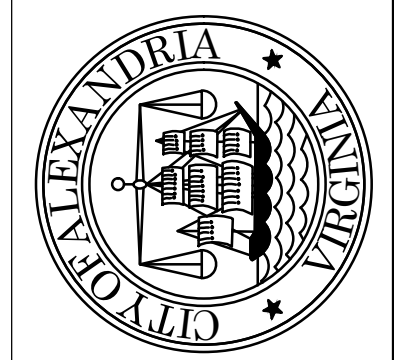
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- LEGEND**
- DRAINAGE DIVIDE BOUNDARY
 - PROPOSED CONTOUR (1FT INTERVAL)
 - EXISTING CONTOUR (1FT INTERVAL)



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DATE	BY

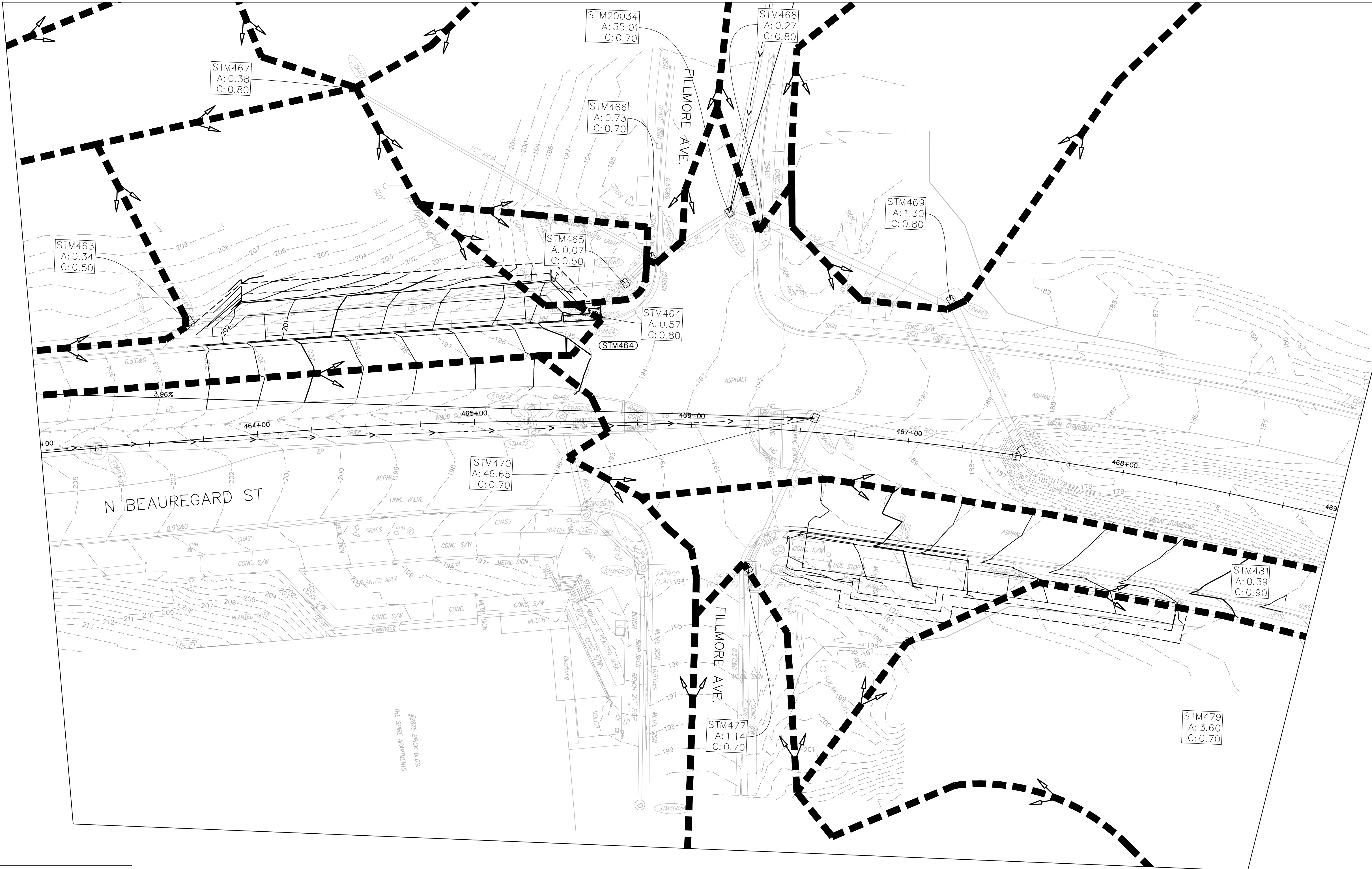
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PROPOSED DRAINAGE AREA MAP

SHEET
D-1523
SCALE 1" = 25'

WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

PROPOSED DRAINAGE AREA MAP



- LEGEND**
- DRAINAGE DIVIDE BOUNDARY
 - PROPOSED CONTOUR (1FT INTERVAL)
 - EXISTING CONTOUR (1FT INTERVAL)



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WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

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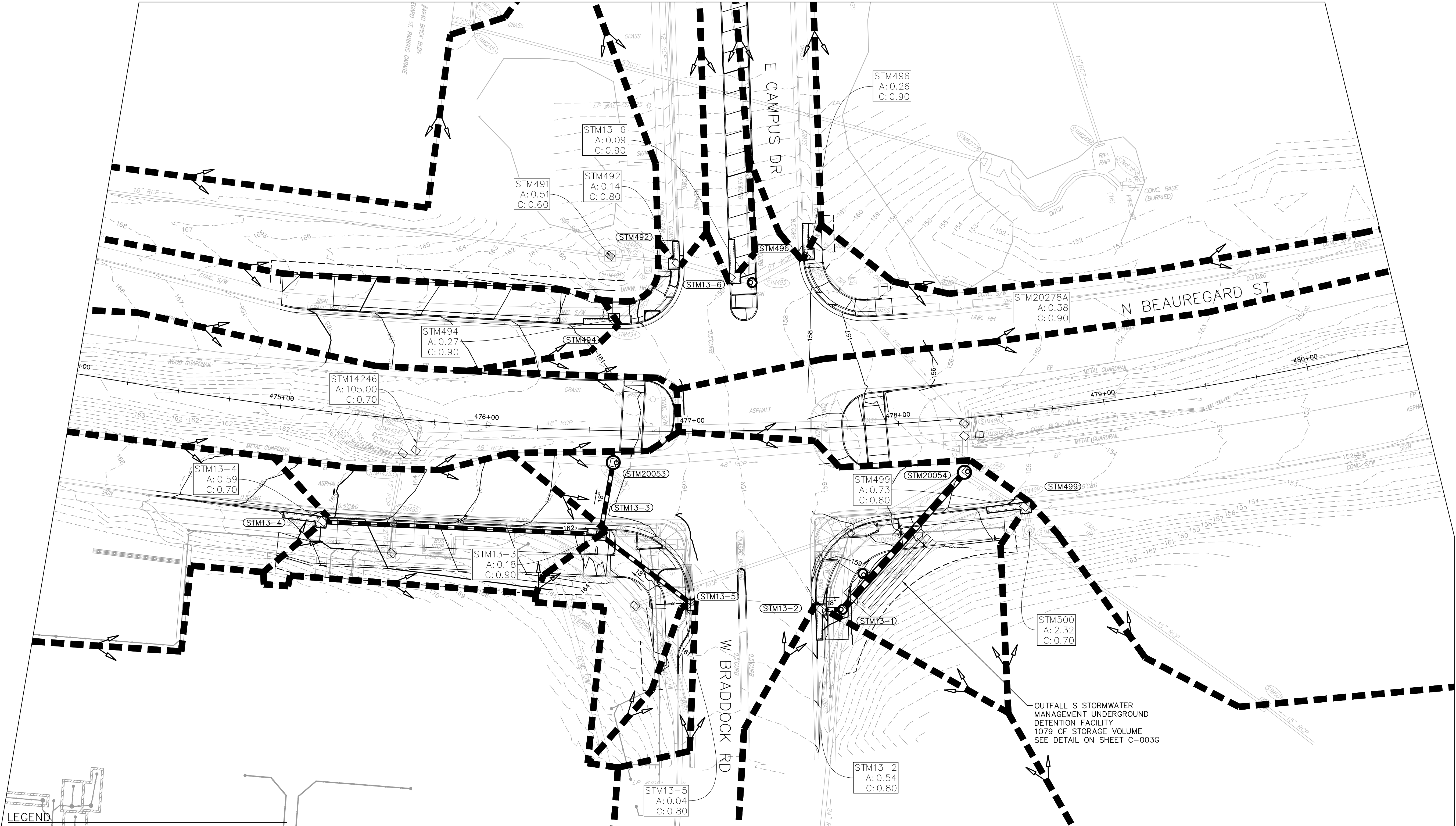


PROPOSED DRAINAGE AREA MAP

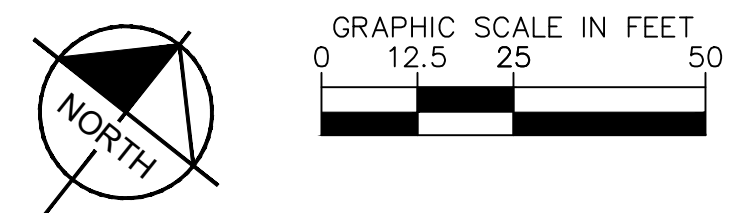
SHEET D-1526

SCALE 1" = 25'

PROPOSED DRAINAGE AREA MAP



- LEGEND**
- DRAINAGE DIVIDE BOUNDARY
 - PROPOSED CONTOUR (1FT INTERVAL)
 - EXISTING CONTOUR (1FT INTERVAL)



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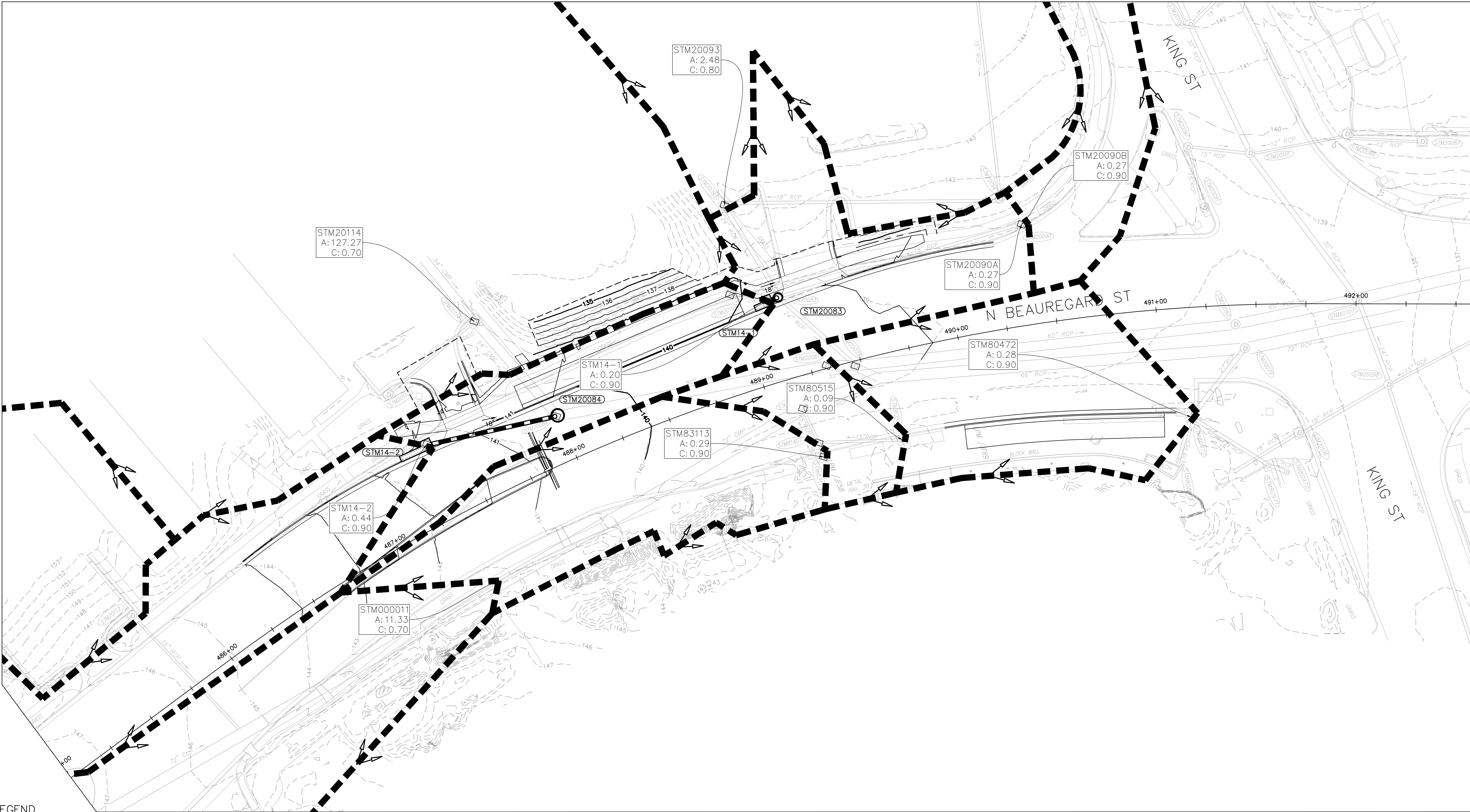
WEST END TRANSITWAY – PHASE 1 IMPROVEMENTS

PROPOSED DRAINAGE AREA MAP

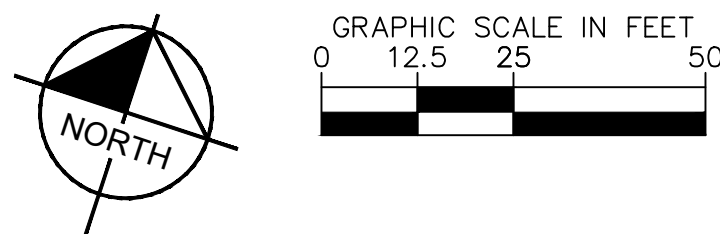
SHEET
 D-1527
 SCALE 1" = 25'

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PROPOSED DRAINAGE AREA MAP



- LEGEND**
- DRAINAGE DIVIDE BOUNDARY
 - PROPOSED CONTOUR (1FT INTERVAL)
 - EXISTING CONTOUR (1FT INTERVAL)



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WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

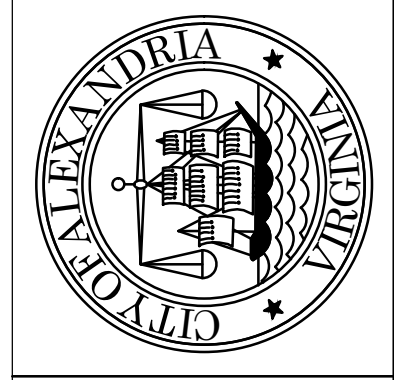
90% DESIGN PHASE

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REVISIONS	DESCRIPTION
DATE	BY

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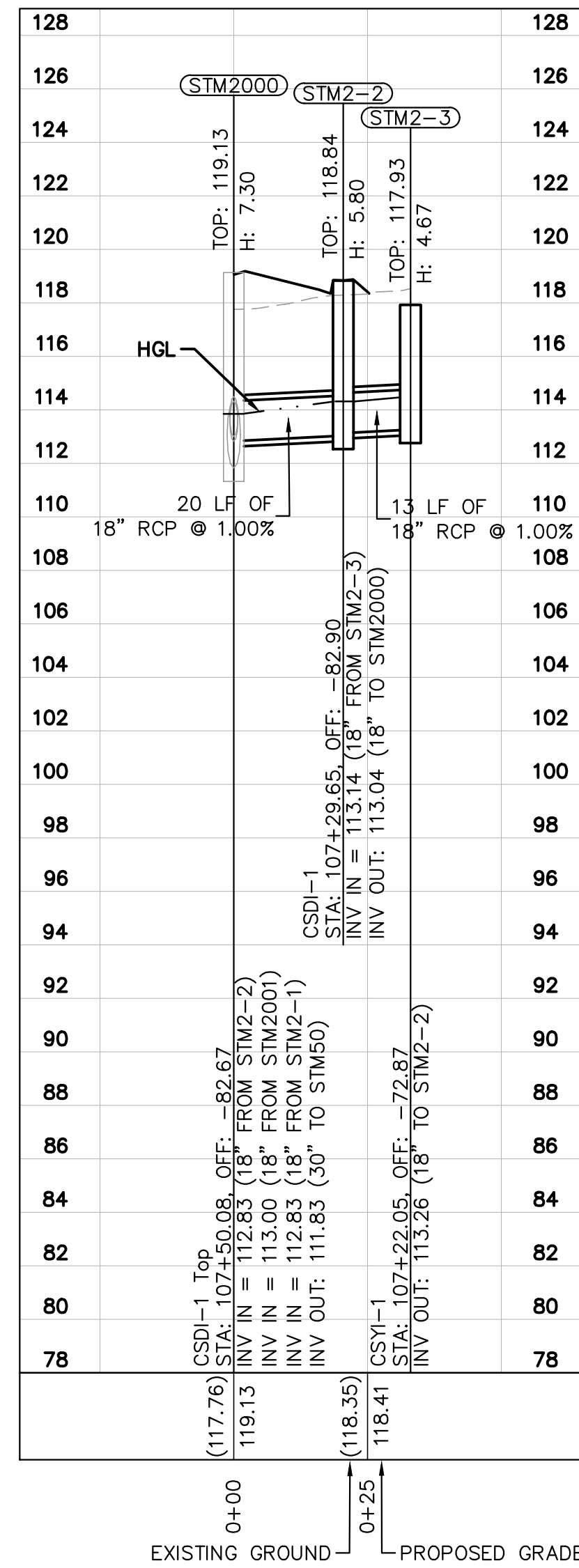
PROPOSED DRAINAGE AREA MAP

SHEET D-1528

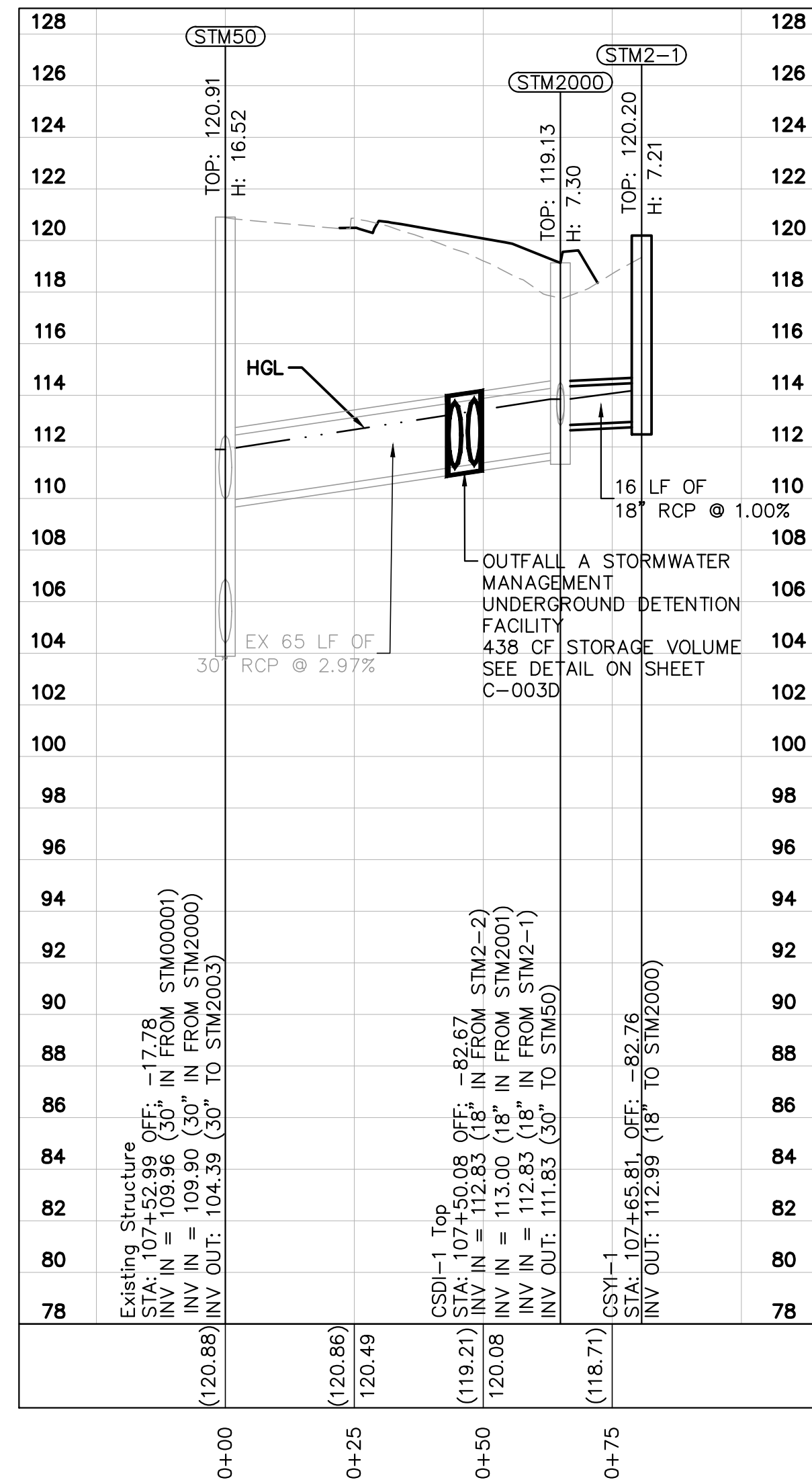
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DRAINAGE PROFILES

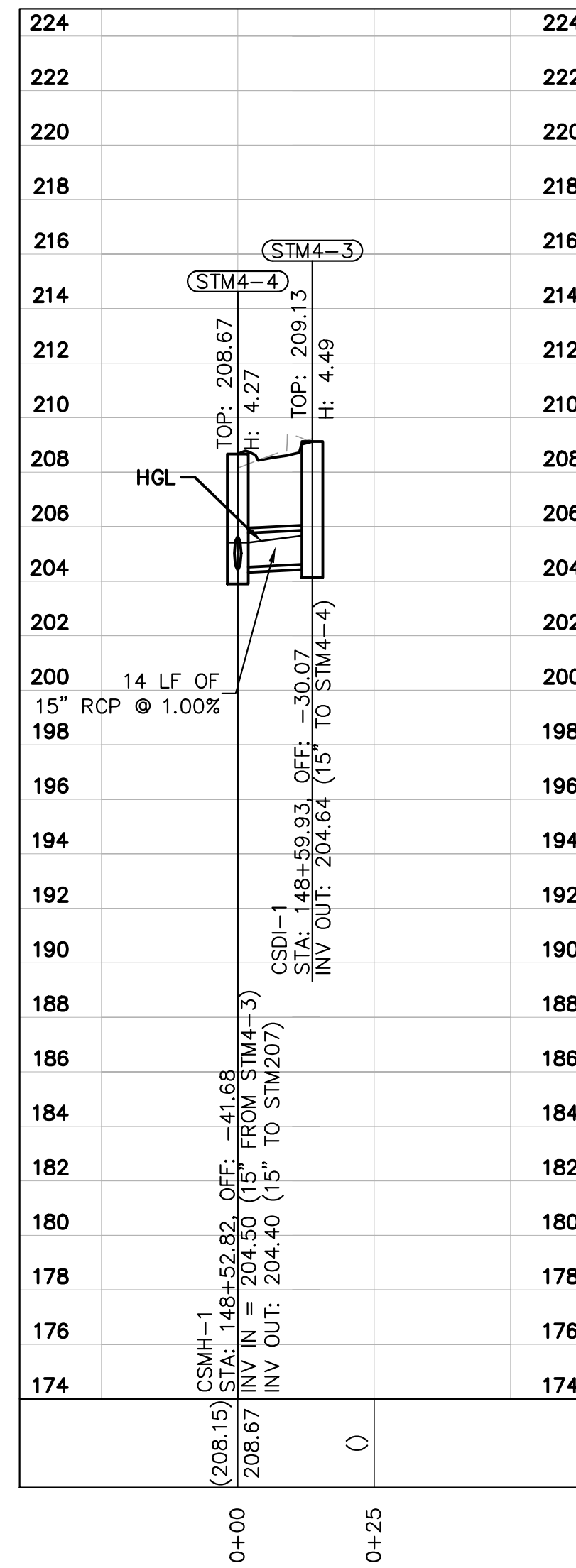
STM2000 TO STM2-3



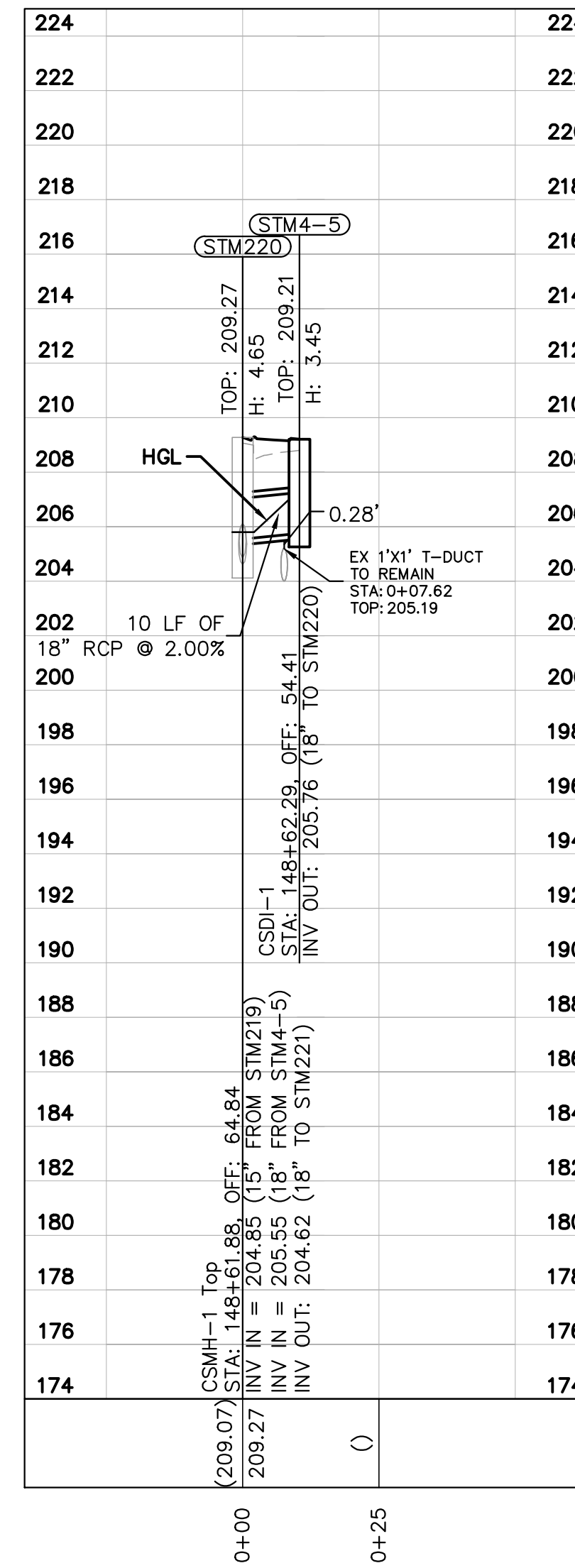
STM2000 TO STM2-1



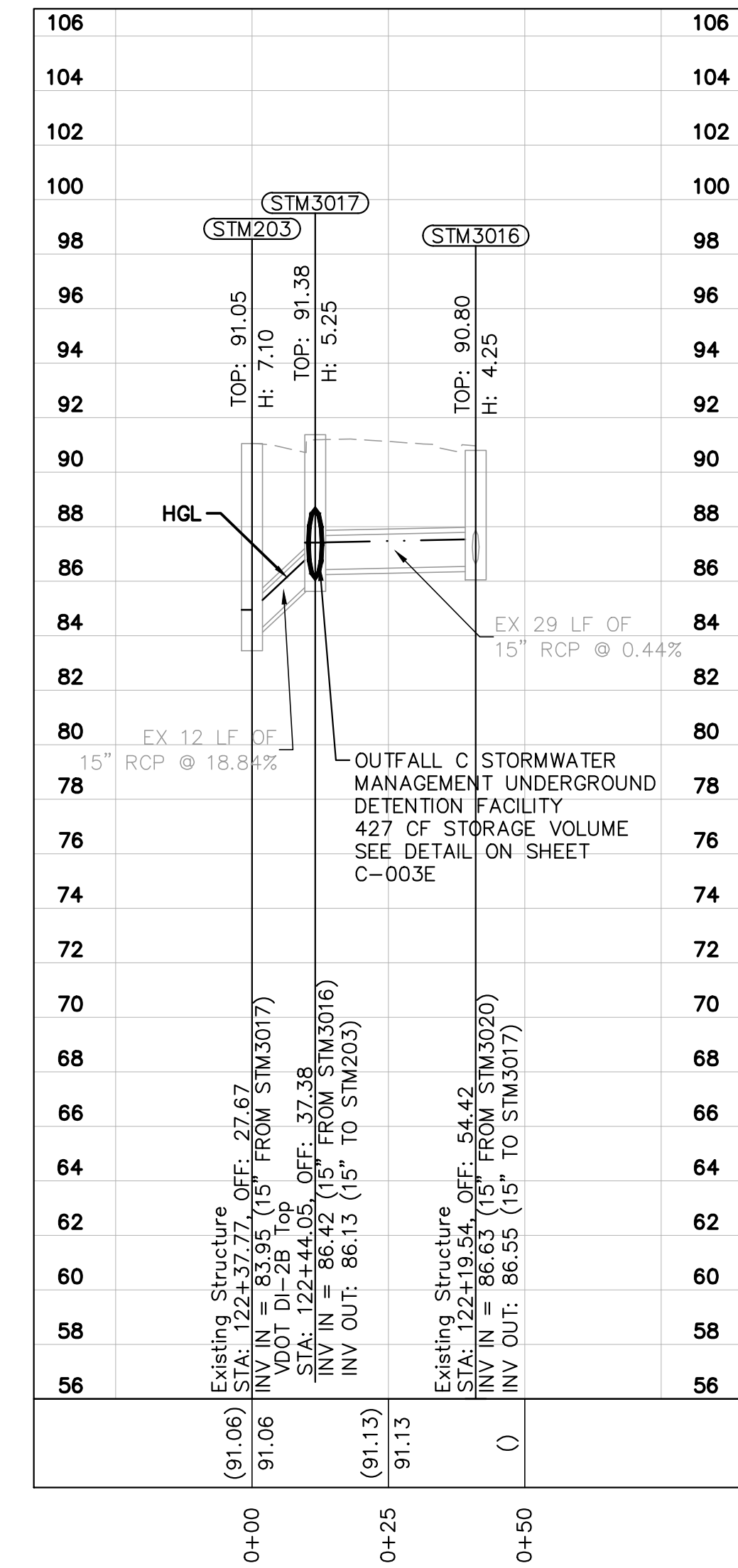
STM4-4 TO STM4-3



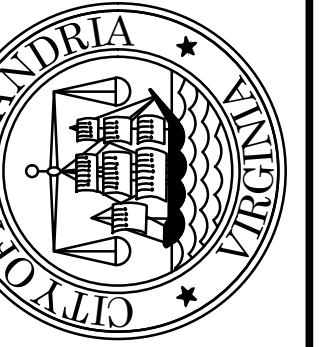
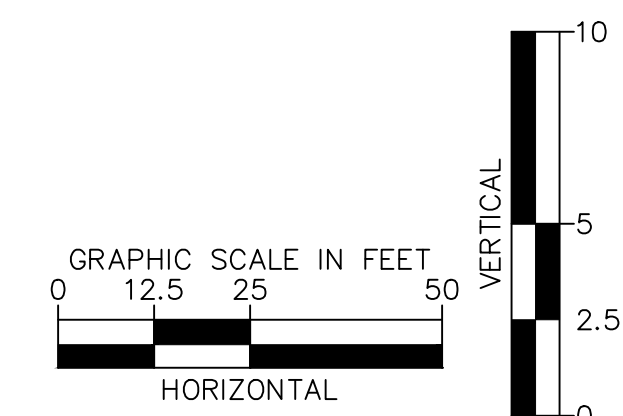
STM220 TO STM4-5



STM203 TO STM3016-26



NOTE:
ALL PROPOSED PIPES SHALL BE REINFORCED CONCRETE
PIPE CLASS IV WITH SILT TIGHT JOINT TYPE

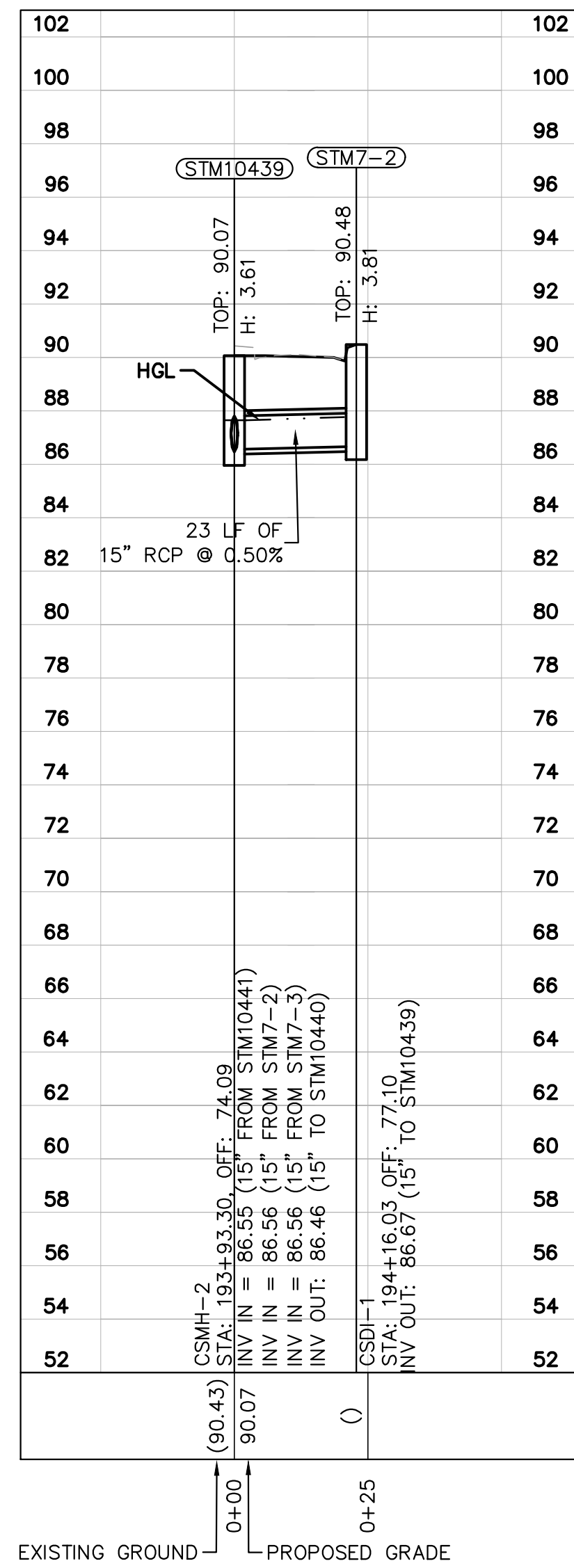


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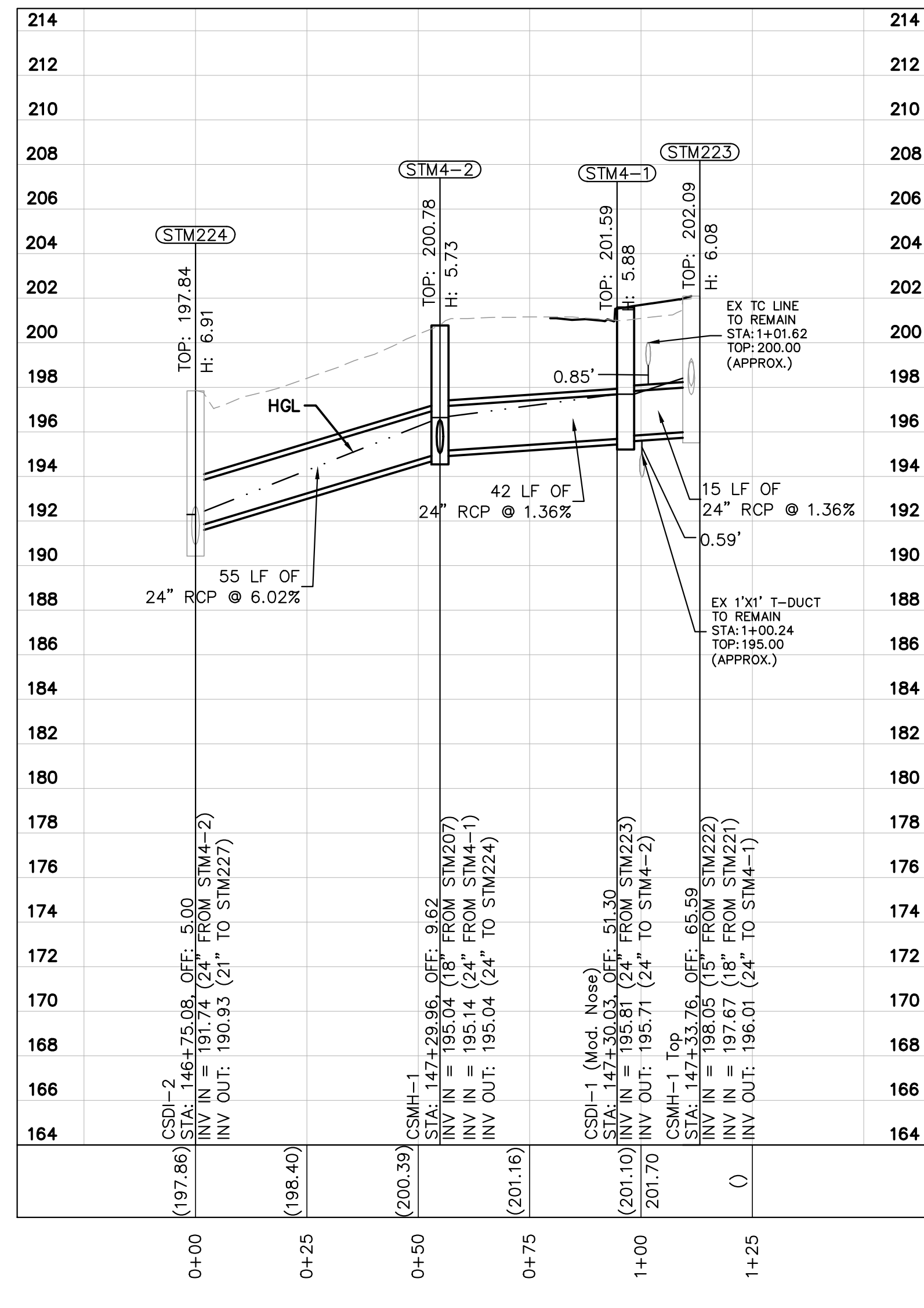
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DRAINAGE PROFILES

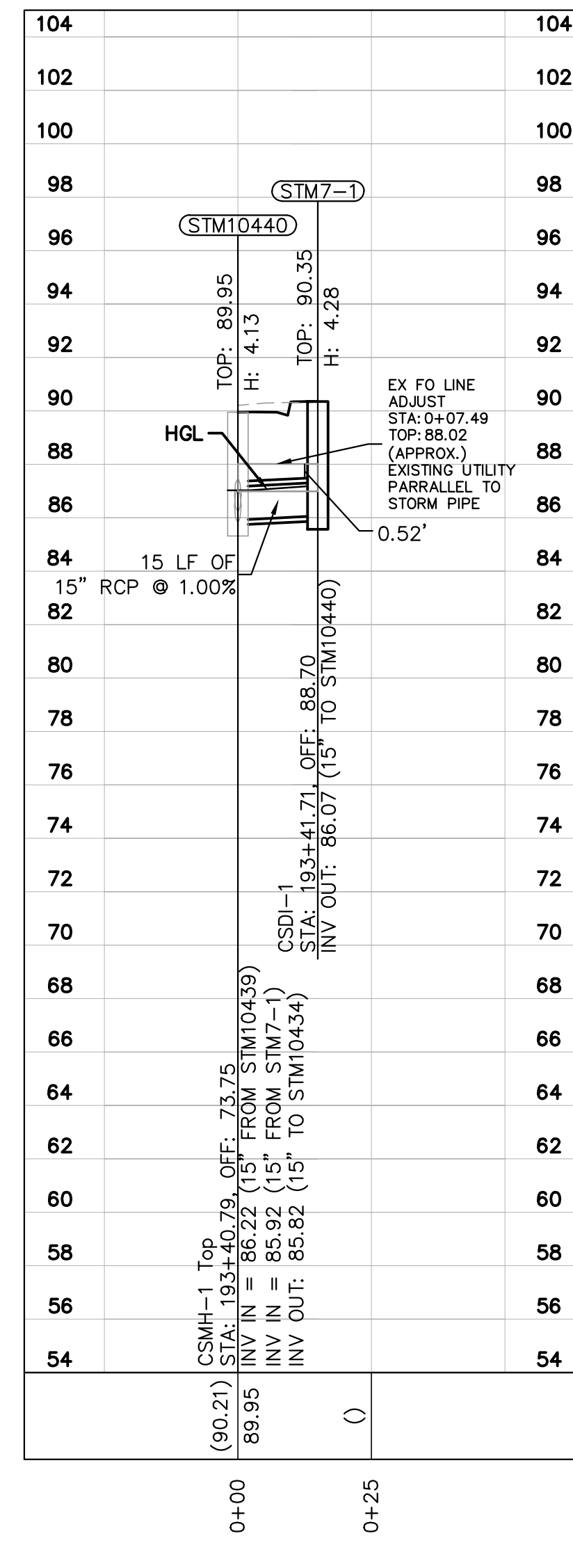
STM10439 TO STM7-2



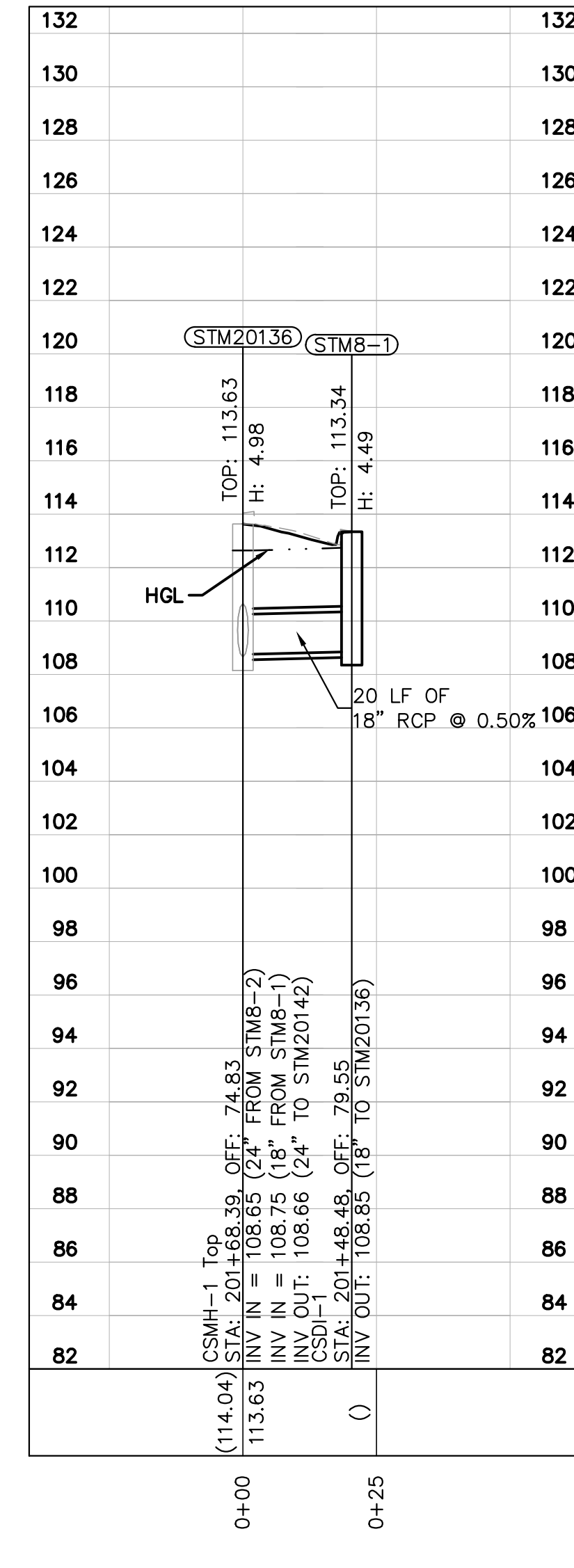
STM224 TO STM223



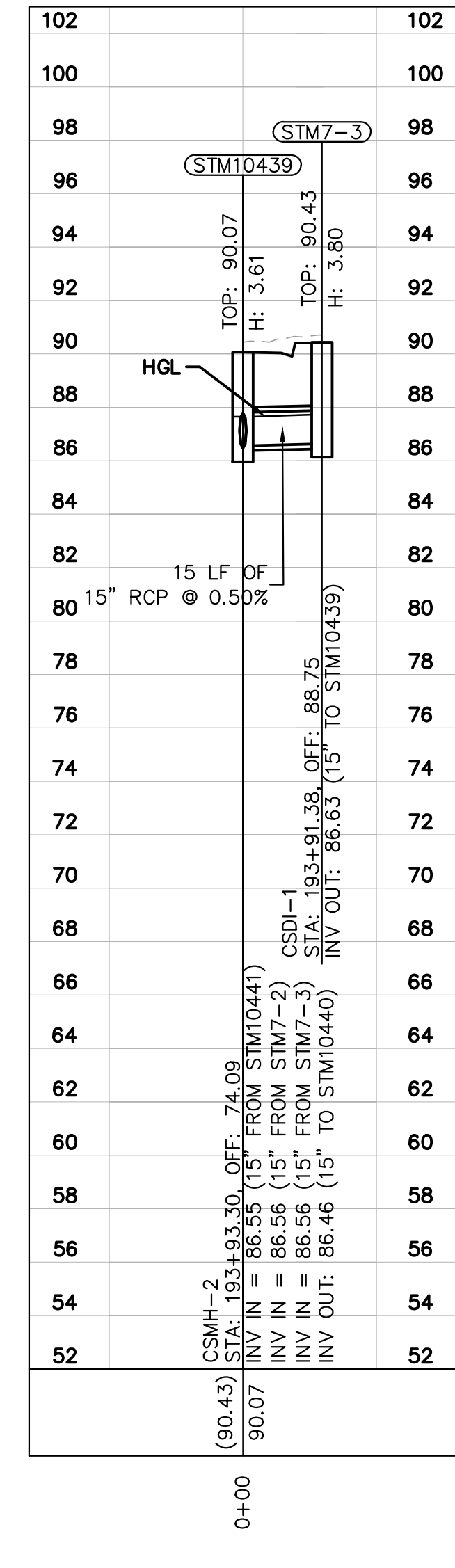
STM10440 TO STM7-1



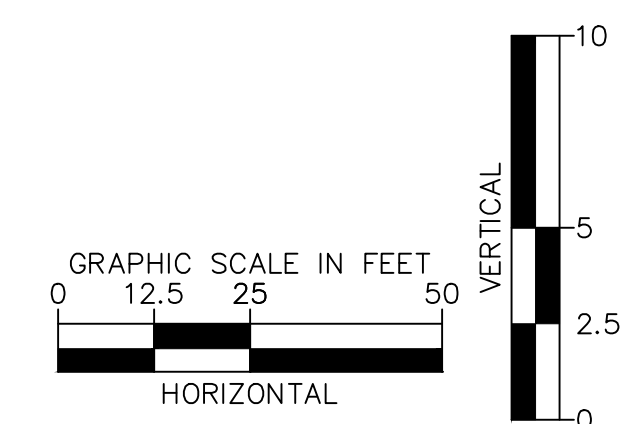
STM20137 TO STM8-1



STM10439 TO STM7-3



NOTE:
ALL PROPOSED PIPES SHALL BE REINFORCED CONCRETE
PIPE CLASS IV WITH SILT TIGHT JOINT TYPE



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

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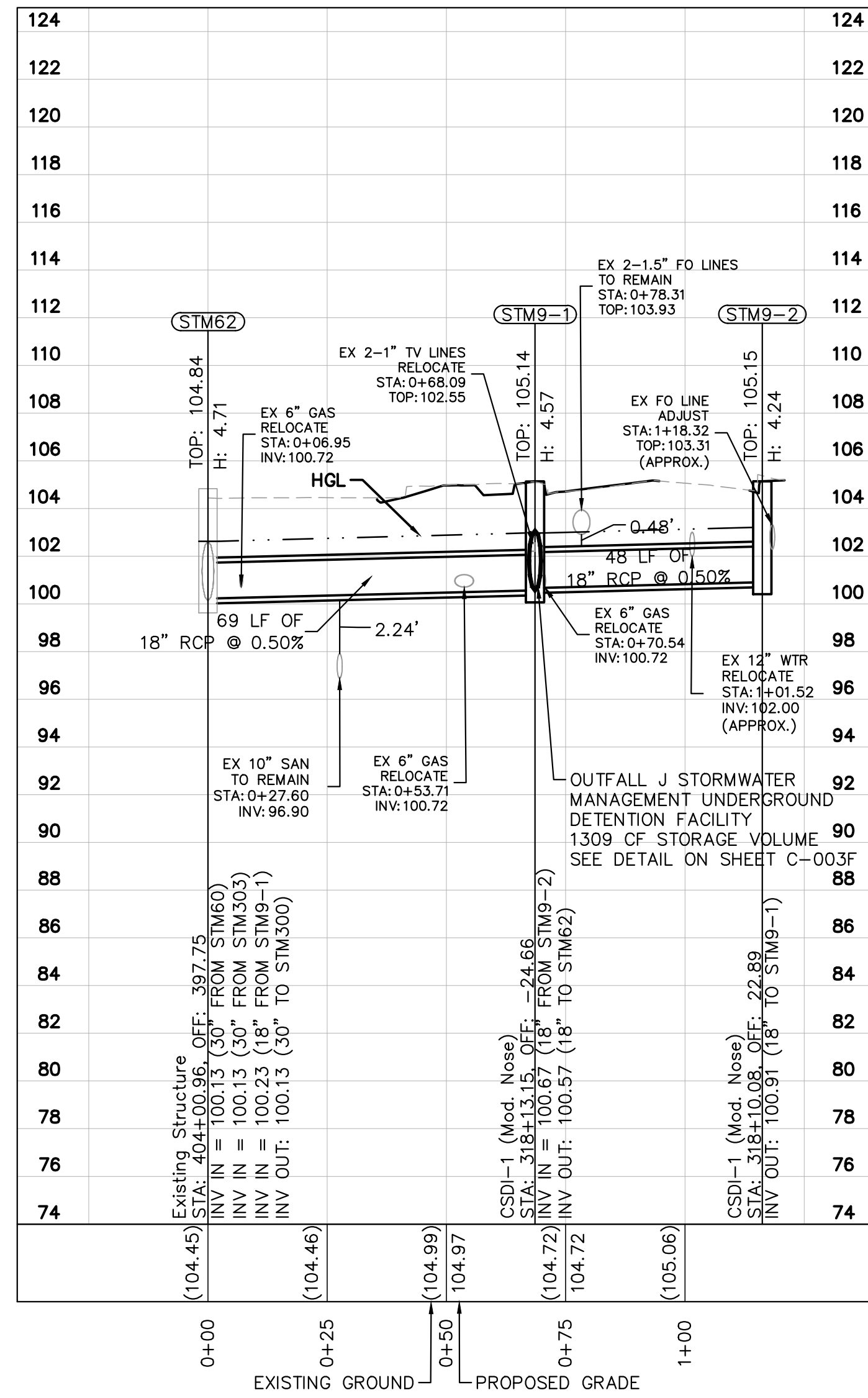
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DATE	

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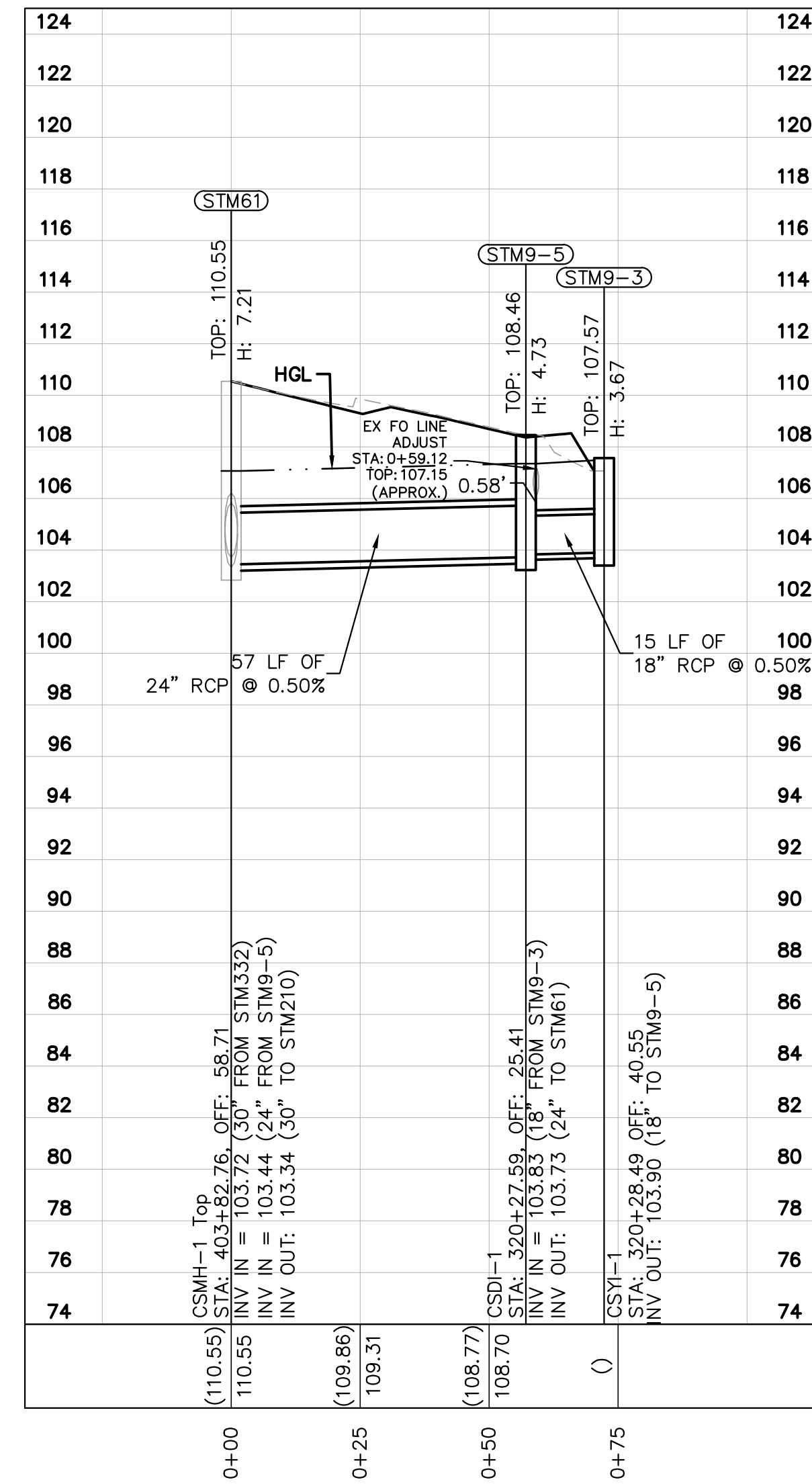
DRAINAGE PROFILES
SHEET
D-1530
SCALE AS SHOWN

DRAINAGE PROFILES

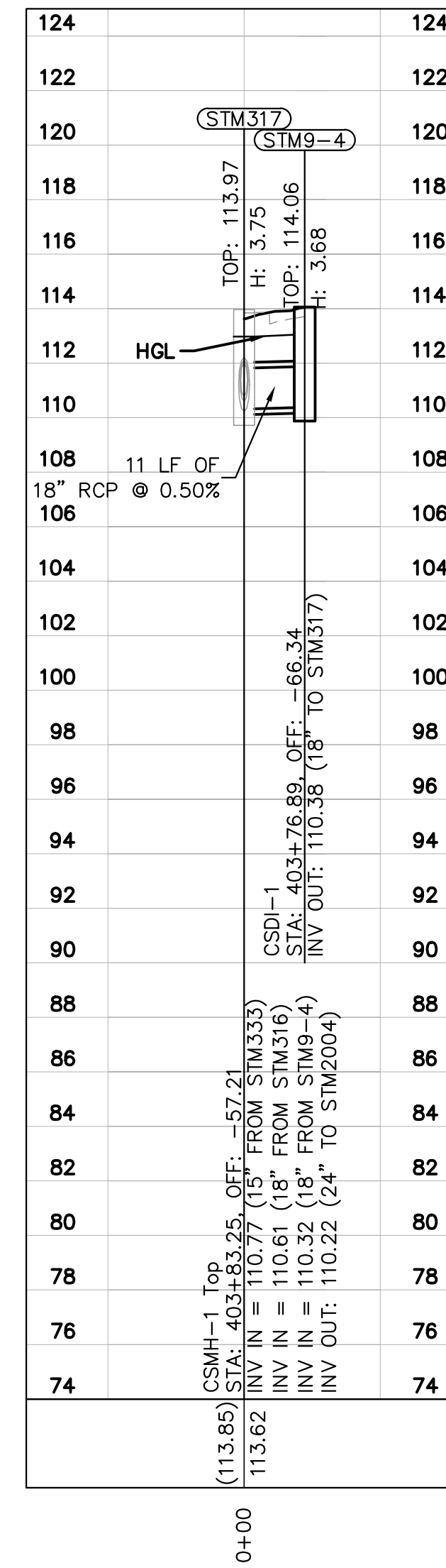
STM62 TO STM9-2



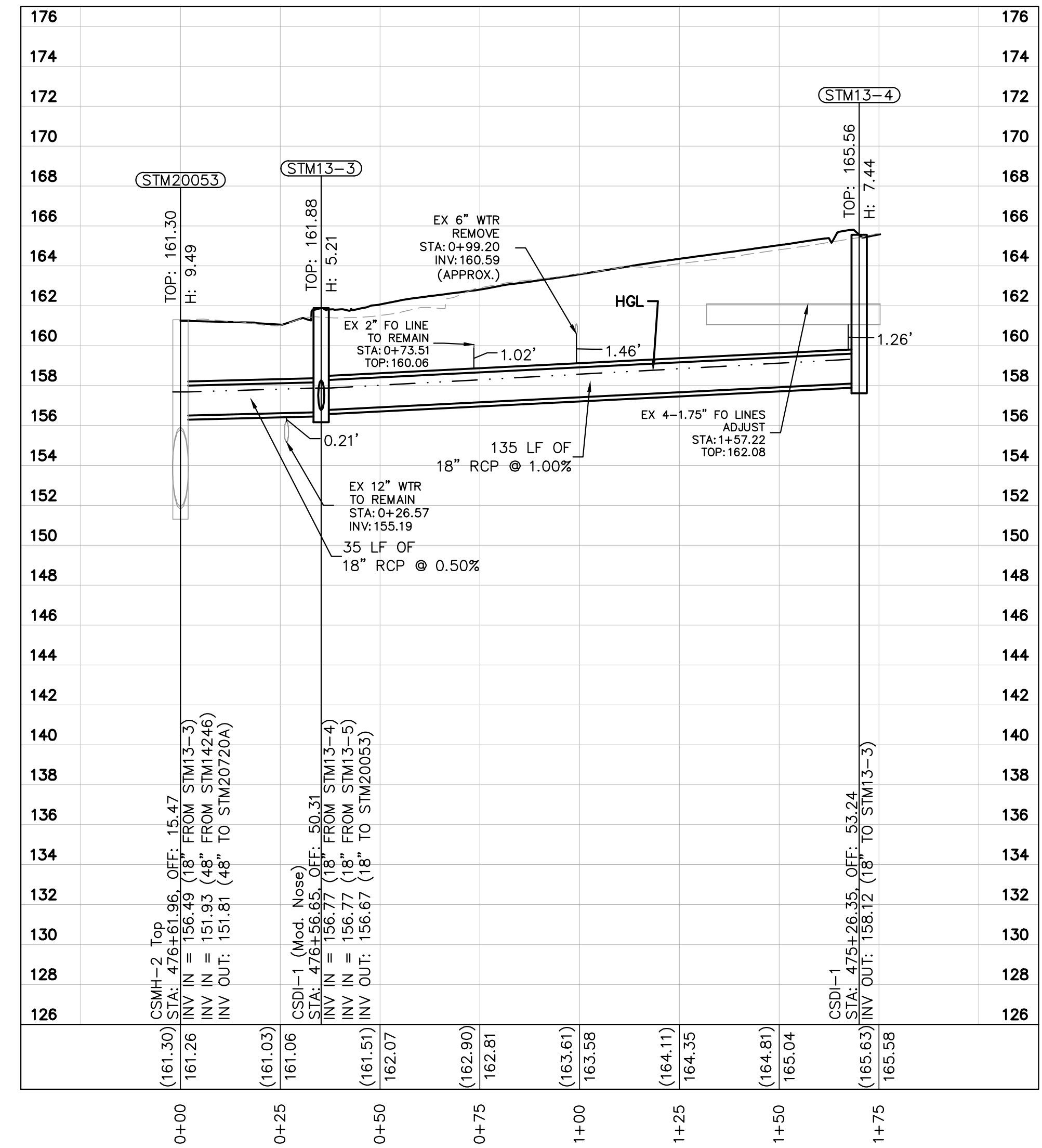
STM61 TO STM 9-3



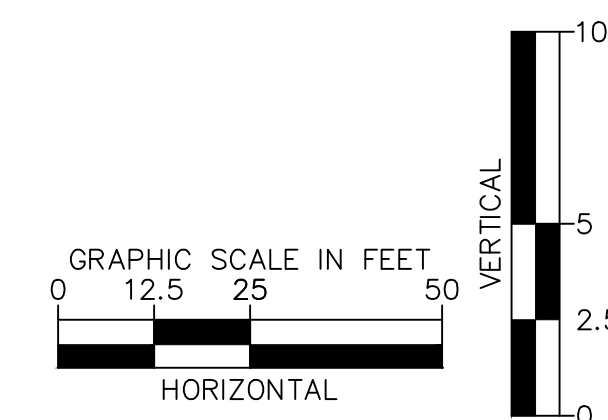
STM317 TO STM9-4



STM20053 TO STM13-4



NOTE:
ALL PROPOSED PIPES SHALL BE REINFORCED CONCRETE
PIPE CLASS IV WITH SILT TIGHT JOINT TYPE



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

DRAINAGE PROFILES

SHEET
D-1531
SCALE AS SHOWN

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DATE	
BY	

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APPROVED BY: _____ DATE: _____

PROPOSED DRAINAGE DESCRIPTIONS

Plotted By: Waring, Megan Sheet Set: West End Transitway - Phase 1 Layout: D-1533 PROPOSED DRAINAGE DESCRIPTIONS July 11, 2024 02:29:48pm K:\NVA_Transit\10104122_West End Transitway Design\Drawings\Drawings\DRAINAGE DESCRIPTIONS VANI DORN.dwg

SHEET 2

- STM2000** Modify Existing Yard Inlet
Adjust to Grade
1 Std. CSDI-1 Top Req. L=4'
Proposed Top Elev=119.13'
Connect UD-4 To Structure
Modify to Accept 18" Pipes
 - STM2-1 - STM2000** 16' - 18" Conc. Pipe Class IV Req. (4' Cover)
Silt Tight Joint Type
Inv(In)=112.99, Inv(Out)=112.83
 - STM2-1** 1 Std. CSYI-1 Req.
H=7.21', Inv=112.99'
 - STM2-2 - STM2000** 20' - 18" Conc. Pipe Class IV Req. (4' Cover)
Silt Tight Joint Type
Inv(In)=113.04, Inv(Out)=112.83
 - STM2-2** 1 Std. CSDI-1 Req.
L=12', H=5.80', Inv=113.04'
Std. CSIS-1 Req.
Connect UD-4 To Structure
 - STM2-3 - STM2-2** 13' - 18" Conc. Pipe Class IV Req. (4' Cover)
Silt Tight Joint Type
Inv(In)=113.26, Inv(Out)=113.14
 - STM2-3** 1 Std. CSYI-1 Req.
H=4.67', Inv=113.26'
- SHEET 3
- STM3-1** 1 Std. CSDI-1 Req.
L=12', H=6.12', Inv=85.22'
Connect to Existing 30" Pipe
Std. CSIS-1 Req.
Connect UD-4 To Structure
 - STM3010** Modify Existing Drop Inlet
Adjust to Grade
1 Std. CSDI-1 Top Req. L=4'
Proposed Top Elev=90.84'
Connect UD-4 To Structure
 - STM3012** Modify Existing Drop Inlet
Adjust to Grade
1 Std. CSDI-1 Top (Mod. Nose) Req. L=12'
Proposed Top Elev=91.34'
Connect UD-4 To Structure
 - STM3017** Modify Existing Drop Inlet
Adjust to Grade
1 Std. VDOT DI-2B Top Req. L=20'
Proposed Top Elev=91.38'
Connect UD-4 To Structure

SHEET 4

- STM224** Modify Existing Yard Inlet
Modify to Remove 18" and 24" Pipes
Modify to Accept 24" Pipe
- STM4-2 - STM224** 55' - 24" Conc. Pipe Class IV Req. (3' Cover)
Silt Tight Joint Type
Inv(In)=195.04, Inv(Out)=191.74
- STM4-2** 5.07 LF Std. CSMH-1 Req.
Inv=195.04'
Std. CSIS-1 Req.
- STM4-1 - STM4-2** 42' - 24" Conc. Pipe Class IV Req. (4' Cover)
Silt Tight Joint Type
Inv(In)=195.71, Inv(Out)=195.14
- STM4-1** 1 Std. CSDI-1 (Mod. Nose) Req.
L=8', H=5.88', Inv=195.71'
Std. CSIS-1 Req.
Connect UD-4 To Structure
- STM223 - STM4-1** 15' - 24" Conc. Pipe Class IV Req. (3' Cover)
Silt Tight Joint Type
Inv(In)=196.01, Inv(Out)=195.81
- STM223** Modify Existing Drop Inlet
Adjust to Grade
1 Std. CSMH-1 Top Req.
Proposed Top Elev=202.09'
Modify to Accept/Remove 24" Pipe
Std. CSIS-1 Req.
- STM221** Modify Existing Drop Inlet
Adjust to Grade
1 Std. CSDI-1 Top Req. L=8'
Proposed Top Elev=206.31'
Connect UD-4 To Structure
- STM4-4** 3.60 LF Std. CSMH-1 Req.
Inv=204.40'
Connect to Existing 15" Pipe
Std. CSIS-1 Req.
- STM4-3 - STM4-4** 14' - 15" Conc. Pipe Class IV Req. (3' Cover)
Silt Tight Joint Type
Inv(In)=204.64, Inv(Out)=204.50
- STM4-3** 1 Std. CSDI-1 Req.
L=4', H=4.49', Inv=204.64'
Connect UD-4 To Structure
- STM4-5** 1 Std. CSDI-1 Req.
L=16', H=3.45', Inv=205.76'
Connect UD-4 To Structure
- STM4-5 - STM220** 10' - 18" Conc. Pipe Class IV Req. (2' Cover)
Silt Tight Joint Type
Inv(In)=205.76, Inv(Out)=205.55
- STM220** Modify Existing Drop Inlet
Adjust to Grade
1 Std. CSMH-1 Top Req.
Proposed Top Elev=209.27'

SHEET 6

- STM54** Modify Existing Manhole
Adjust to Grade
1 Std. CSDI-1 Top Req. L=16'
Proposed Top Elev=129.98'
Connect UD-4 To Structure
 - STM10410** Modify Existing Manhole
Adjust to Grade
1 Std. CSMH-2 ADA Compliant Top Req.
Proposed Top Elev=122.17'
 - STM10411** Modify Existing Manhole
Adjust to Grade
1 Std. CSMH-2 Top Req.
Proposed Top Elev=118.59'
 - STM10407** Modify Existing Manhole
Adjust to Grade
1 Std. CSMH-1 ADA Compliant Top Req.
Proposed Top Elev=124.70'
Connect UD-4 To Structure
- SHEET 7
- STM10440** Modify Existing Drop Inlet
Adjust to Grade
1 Std. CSMH-1 Top Req.
Proposed Top Elev=89.95'
Modify to Accept 15" Pipe
 - STM7-1 - STM10440** 15' - 15" Conc. Pipe Class IV Req. (3' Cover)
Silt Tight Joint Type
Inv(In)=86.07, Inv(Out)=85.92
 - STM7-1** 1 Std. CSDI-1 Req.
L=8', H=4.28', Inv=86.07'
Connect UD-4 To Structure
 - STM7-2** 1 Std. CSDI-1 Req.
L=8', H=3.81', Inv=86.67'
Connect UD-4 To Structure
 - STM7-2 - STM10439** 23' - 15" Conc. Pipe Class IV Req. (2' Cover)
Silt Tight Joint Type
Inv(In)=86.67, Inv(Out)=86.56
 - STM7-3** 1 Std. CSDI-1 Req.
L=8', H=3.80', Inv=86.63'
Connect UD-4 To Structure
 - STM7-3 - STM10439** 15' - 15" Conc. Pipe Class IV Req. (3' Cover)
Silt Tight Joint Type
Inv(In)=86.63, Inv(Out)=86.56
 - STM10439** Replace Existing Structure
2.94 LF Std. CSMH-2 Req.
Inv=86.46'
Std. CSIS-1 Req.
 - STM10432** Modify Existing Drop Inlet
Adjust to Grade
1 Std. CSDI-1 Top (Mod.Nose) Req. L=12'
Proposed Top Elev=91.05'
Connect UD-4 To Structure

SHEET 8

- STM20142** Modify Existing Manhole
Adjust to Grade
Proposed Top Elev=113.77'
- STM8-1 - STM20136** 20' - 18" Conc. Pipe Class IV Req. (3' Cover)
Silt Tight Joint Type
Inv(In)=108.85, Inv(Out)=108.75
- STM8-1** 1 Std. CSDI-1 Req.
L=8', H=4.49', Inv=108.85'
Connect UD-4 To Structure
- STM20136** Modify Existing Drop Inlet
Adjust to Grade
1 Std. CSMH-1 Top Req.
Proposed Top Elev=113.63'
Modify to Accept 18" Pipe
- STM8-2** 1 Std. VDOT T-DI-3, B-2 Req.
L=12', H=4.91', Inv=108.83'
Std. CSIS-1 Req.
Connect to Existing 24" Pipes
- STM20132** Modify Existing Drop Inlet
Adjust to Grade
1 Std. CSDI-1 Top Req. L=20'
Proposed Top Elev=116.04'
Connect UD-4 To Structure
- STM20138** Modify Existing Manhole
Adjust to Grade
1 Std. CSMH-1 Top Req.
Proposed Top Elev=112.43'

90% DESIGN PHASE



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WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

PROPOSED DRAINAGE DESCRIPTIONS

SHEET
 D-1533
 SCALE N/A

Plotted By: Waring, Megan Sheet Set: West End Transitway - Phase 1 Layout: D-1534 PROPOSED DRAINAGE DESCRIPTIONS July 11, 2024 02:30:17pm K:\NVA_Transit\10104122_West End Transitway Design\CADD\PlanSheets\DRAINAGE DESCRIPTIONS BEAUREGARD.dwg

PROPOSED DRAINAGE DESCRIPTIONS

SHEET 9

- (STM62)** Modify Existing Manhole
Std. CSIS-1 Req.
Modify to Accept 18" Pipe
- (STM9-1) - (STM62)** 69' - 18" Conc. Pipe Class IV Req. (3' Cover)
Silt Tight Joint Type
Inv(In)=100.57, Inv(Out)=100.23
- (STM9-1)** 1 Std. CSDI-1 (Mod. Nose) Req.
L=12', H=4.51', Inv=100.57'
Std. CSIS-1 Req.
Connect UD-4 To Structure
- (STM9-2) - (STM9-1)** 48' - 18" Conc. Pipe Class IV Req. (3' Cover)
Silt Tight Joint Type
Inv(In)=100.91, Inv(Out)=100.67
- (STM9-2)** 1 Std. CSDI-1 (Mod. Nose) Req.
L=12', H=4.24', Inv=100.91'
Connect UD-4 To Structure
- (STM210)** Modify Existing Manhole
Adjust to Grade
1 Std. CSMH-1 Top Req.
Proposed Top Elev=111.11'

Modify Existing Manhole
Adjust to Grade
1 Std. CSMH-1 Top Req.
Proposed Top Elev=110.55'
Std. CSIS-1 Req.
Modify to Accept 24" Pipe
- (STM61)** 57' - 24" Conc. Pipe Class IV Req. (3' Cover)
Silt Tight Joint Type
Inv(In)=103.73, Inv(Out)=103.44
- (STM9-5)** 1 Std. CSDI-1 Req.
L=12', H=4.73', Inv=103.73'
Std. CSIS-1 Req.
Connect UD-4 To Structure
- (STM9-3) - (STM9-5)** 15' - 18" Conc. Pipe Class IV Req. (2' Cover)
Silt Tight Joint Type
Inv(In)=103.90, Inv(Out)=103.83
- (STM9-3)** 1 Std. CSYI-1 Req.
H=3.67', Inv=103.90'
- (STM332)** Modify Existing Drop Inlet
Adjust to Grade
1 Std. VDOT T-DI-3 Req. L=16'
Proposed Top Elev=113.93'
Connect UD-4 To Structure
- (STM315)** Modify Existing Drop Inlet
Adjust to Grade
1 Std. CSDI-1 Top Req. L=20'
Proposed Top Elev=113.59'
Connect UD-4 To Structure
- (STM2004)** Modify Existing Manhole
Adjust to Grade
1 Std. CSMH-1 Top Req.
Proposed Top Elev=114.32'
- (STM317)** Modify Existing Drop Inlet
Adjust to Grade
1 Std. CSMH-1 Top Req.
Proposed Top Elev=113.97'
Std. CSIS-1 Req.
Modify to Accept 18" Pipe
- (STM9-4) - (STM317)** 11' - 18" Conc. Pipe Class IV Req. (2' Cover)
Silt Tight Joint Type
Inv(In)=110.38, Inv(Out)=110.32
- (STM9-4)** 1 Std. CSDI-1 Req.
L=16', H=3.68', Inv=110.38'
Connect UD-4 To Structure

- (STM331)** Modify Existing Drop Inlet
Adjust to Grade
1 Std. VDOT T-DI-3 Req. L=16'
Proposed Top Elev=115.22'
Connect UD-4 To Structure
- (STM363)** Modify Existing Drop Inlet
Adjust to Grade
1 Std. CSYI-1 Top Req.
Proposed Top Elev=238.25'
- (STM366)** Modify Existing Drop Inlet
Adjust to Grade
1 Std. VDOT DI-2B Top Req. L=12'
Proposed Top Elev=241.39'
Connect UD-4 To Structure
- (STM464)** Modify Existing Drop Inlet
Adjust to Grade
1 Std. CSDI-1 Top Req. L=16'
Proposed Top Elev=194.93'
Connect UD-4 To Structure
- (STM13-4)** 1 Std. CSDI-1 Req.
L=20', H=7.44', Inv=158.12'
Connect UD-4 To Structure
- (STM13-3) - (STM13-3)** 135' - 18" Conc. Pipe Class IV Req. (3' Cover)
Silt Tight Joint Type
Inv(In)=158.12, Inv(Out)=156.77
- (STM13-3)** 1 Std. CSDI-1 (Mod. Nose) Req.
L=8', H=5.21', Inv=156.67'
Std. CSIS-1 Req.
Connect UD-4 To Structure
- (STM13-3) - (STM20053)** 35' - 18" Conc. Pipe Class IV Req. (3' Cover)
Silt Tight Joint Type
Inv(In)=156.67, Inv(Out)=156.49
- (STM20053)** Modify Existing Manhole
Adjust to Grade
1 Std. CSMH-2 Top Req.
Proposed Top Elev=161.30'
Std. CSIS-1 Req.
Modify to Accept 18" Pipe
- (STM492)** Modify Existing Drop Inlet
Adjust to Grade
1 Std. CSDI-1 Top Req. L=12'
Proposed Top Elev=160.26'
Connect UD-4 To Structure
- (STM494)** Modify Existing Drop Inlet
Adjust to Grade
1 Std. CSDI-1 Top Req. L=16'
Proposed Top Elev=160.86'
Connect UD-4 To Structure
- (STM13-5)** 1 Std. VDOT DI-2B Req.
L=4', H=4.00', Inv=157.04'
Connect UD-4 To Structure
- (STM13-5) - (STM13-3)** 54' - 18" Conc. Pipe Class IV Req. (2' Cover)
Silt Tight Joint Type
Inv(In)=157.04, Inv(Out)=156.77

- (STM13-2)** 1 Std. CSDI-1 Req.
L=16', H=5.60', Inv=154.31'
Connect UD-4 To Structure
- (STM13-2) - (STM13-1)** 10' - 18" Conc. Pipe Class IV Req. (4' Cover)
Silt Tight Joint Type
Inv(In)=154.31, Inv(Out)=153.89
- (STM13-1)** 1 Std. CSMH-1 ADA Compliant Top Req.
H=5.40', Inv=153.79'
Std. CSIS-1 Req.
Connect to Existing 24" Pipe
- (STM13-1) - (STM20054)** 90' - 30" Conc. Pipe Class IV Req. (3' Cover)
Silt Tight Joint Type
Inv(In)=153.79, Inv(Out)=150.20
- (STM20054)** Modify Existing Manhole
Adjust to Grade
1 Std. CSMH-1 Top Req.
Proposed Top Elev=156.00'
Std. CSIS-1 Req.
Modify to Remove/Accept 30" Pipe
- (STM499)** Modify Existing Drop Inlet
Adjust to Grade
1 Std. CSDI-1 Top Req. L=20'
Proposed Top Elev=155.48'
Connect UD-4 To Structure
- (STM13-6)** 1 Std. CSDI-1 Req.
L=20', H=154.55', Inv=153.43'
Std. CSIS-1 Req.
Connect to Existing 27" Pipe
- (STM495)** Modify Existing Drop Inlet
Adjust to Grade
1 Std. CSMH-1 Top Req.
Proposed Top Elev=159.47'
- (STM496)** Modify Existing Drop Inlet
Adjust to Grade
1 Std. CSDI-1 Top Req. L=16'
Proposed Top Elev=159.33'
Connect UD-4 To Structure
- (STM14-2)** 1 Std. CSDI-1 Req.
L=16', H=5.86', Inv=136.00'
Connect UD-4 To Structure
- (STM14-2) - (STM20084)** 66' - 18" Conc. Pipe Class IV Req. (4' Cover)
Silt Tight Joint Type
Inv(In)=136.00, Inv(Out)=134.68
- (STM14-1)** 1 Std. CSDI-1 Req.
L=8', H=6.54', Inv=133.19'
Connect UD-4 To Structure
- (STM14-1) - (STM20083)** 6' - 18" Conc. Pipe Class IV Req. (5' Cover)
Silt Tight Joint Type
Inv(In)=133.19, Inv(Out)=132.95
- (STM20083)** Modify Existing Manhole
Adjust to Grade
1 Std. CSMH-1 Top Req.
Proposed Top Elev=139.66'
Std. CSIS-1 Req.
Modify to Remove/Accept 24"/18" Pipes
- (STM20084)** Modify Existing Manhole
Adjust to Grade
1 Std. CSMH-2 Top Req.
Proposed Top Elev=140.57'
Std. CSIS-1 Req.
Modify to Accept 18" Pipe

SHEET 11

SHEET 12

SHEET 13

SHEET 14

90% DESIGN PHASE



CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

DATE	BY	DESCRIPTION

ALEXANDRIA PROJECT NO.:	110104122
DATE OF PLAN ISSUANCE:	N/A
CONSULTANT PROJECT ID.:	N/A
DESIGNED BY:	DCD DATE: 4/5/24
DRAWN BY:	NS DATE: 4/5/24
CHECKED BY:	DCD DATE: 4/5/24
APPROVED BY:	

WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

PROPOSED DRAINAGE DESCRIPTIONS

SHEET
 D-1534
 SCALE N/A

NUMBER	TYPE	LENGTH (FT)	DRAINAGE AREA (AC)	C	CA	sum CA	I (IN/HR)	Q INCR (CFS)	Q _c CARRYOVER (CFS)	Q _t GUTTER FLOW (CFS)	S _c GUTTER SLOPE (FT/FT)	S _x CROSS SLOPE (FT/FT)	T _s SPREAD (FT)	ALLOWABLE SPREAD (FT)	W (FT)	W/T	S _w (FT/FT)	S _w /S _x	E _b	a = 12W(S _w - S _x) ² /Local Depression	S _w = a/(12w)	S _p = S _x + S _w (E _b) (FT/FT)	COMPUTED LENGTH, L _r (FT)	L _s SPECIFIED LENGTH (FT)	L/L _r	E	Q _i INTERCEPTED (CFS)	Q _b CARRYOVER (CFS)	d (FT)	h (FT)	d/h	T _s SPREAD @ SAG (FT)		
																																	Sag Inlets Only	
INLETS - ON GRADE																																		
STM122	Existing	6	0.17	0.90	0.153	0.153	9.0	1.377	0.000	1.377	0.0248	0.0184	5.75	10.00	2.0	0.35	0.0625	3.40	0.81	3.06	0.127	0.122	10	6	0.60	0.81	1.11	0.265	0.194					
STM123	Existing	6	0.28	0.90	0.252	0.252	9.0	2.268	0.000	2.268	0.0276	0.0290	5.62	10.00	2.0	0.36	0.0625	2.16	0.77	2.80	0.117	0.119	13	6	0.46	0.67	1.52	0.744	0.230					
STM2001	Existing	4	0.02	0.90	0.018	0.018	9.0	0.162	0.000	0.162	0.0277	0.0116	4.12	10.00	1.0	0.24	0.0116	1.00	0.52	1.00	0.083	0.055	7	4	0.57	0.78	0.13	0.035	0.048					
STM2002	Existing	10	0.63	0.60	0.378	0.378	9.0	3.402	0.035	3.437	0.0565	0.0510	4.33	9.35	2.0	0.46	0.0625	1.23	0.83	2.28	0.095	0.129	19	10	0.53	0.74	2.54	0.896	0.244					
STM2004	Existing	12	0.13	0.90	0.117	0.117	9.0	1.053	0.000	1.053	0.0293	0.0050	9.91	8.00	2.0	0.20	0.0625	12.50	0.78	3.38	0.141	0.115	10	12	1.20	1.00	1.05	0.000	0.165					
STM3021	Existing	8	0.44	0.90	0.396	0.396	9.0	3.564	0.000	3.564	0.0490	0.0357	5.42	8.00	2.0	0.37	0.0625	1.75	0.76	2.64	0.110	0.119	19	8	0.42	0.63	2.23	1.333	0.247					
STM3012	Existing	4	0.19	0.80	0.152	0.152	9.0	1.368	1.333	2.701	0.0172	0.0287	6.79	8.00	2.0	0.29	0.0625	2.18	0.68	2.81	0.117	0.108	13	4	0.31	0.48	1.31	1.393	0.263					
STM3017	Existing	12	0.73	0.80	0.584	0.584	9.0	5.256	0.000	5.256	0.0215	0.0360	7.84	8.00	1.0	0.13	0.0360	1.00	0.30	1.00	0.083	0.061	26	12	0.46	0.67	3.53	1.725	0.282					
STM3020	Existing	8	0.20	0.90	0.180	0.180	9.0	1.620	1.725	3.345	0.0199	0.0264	7.58	9.50	2.0	0.26	0.0625	2.37	0.64	2.87	0.119	0.102	15	8	0.53	0.75	2.50	0.848	0.272					
STM226	Existing	14	0.22	0.90	0.198	0.198	9.0	1.782	2.622	4.404	0.0733	0.0475	4.70	8.00	2.0	0.43	0.0625	1.32	0.80	2.36	0.098	0.126	23	14	0.61	0.82	3.59	0.814	0.253					
STM223	Existing	4	0.26	0.90	0.234	0.234	9.0	2.106	1.483	3.589	0.0657	0.0078	12.34	7.50	2.0	0.16	0.0625	8.01	0.58	3.31	0.138	0.088	25	4	0.16	0.27	0.97	2.622	0.206					
STM221	Existing	4	0.17	0.90	0.153	0.153	9.0	1.377	1.112	2.489	0.0524	0.0559	3.72	8.00	2.0	0.54	0.0625	1.12	0.88	2.16	0.090	0.135	16	4	0.25	0.40	1.01	1.483	0.221					
STM220	Existing	4	0.24	0.90	0.216	0.216	9.0	1.944	0.000	1.944	0.0586	0.0286	4.38	8.00	2.0	0.46	0.0625	2.19	0.87	2.81	0.117	0.131	15	4	0.27	0.43	0.83	1.112	0.193					
STM228	Existing	14	0.25	0.90	0.225	0.225	9.0	2.025	0.603	2.628	0.0609	0.0304	4.88	8.00	2.0	0.41	0.0625	2.06	0.82	2.77	0.115	0.126	17	14	0.82	0.96	2.51	0.116	0.213					
STM215	Existing	16	0.15	0.90	0.135	0.135	9.0	1.215	0.000	1.215	0.0630	0.0105	5.25	10.00	2.0	0.38	0.0625	5.95	0.91	3.25	0.135	0.134	12	16	1.33	1.00	2.22	0.000	0.159					
STM216	Existing	8	0.33	0.80	0.264	0.264	9.0	2.376	0.000	2.376	0.0370	0.0220	6.23	7.00	2.0	0.32	0.0625	2.84	0.75	2.97	0.124	0.115	15	8	0.53	0.75	1.77	0.603	0.218					
STM238	Existing	8	0.35	0.90	0.315	0.315	9.0	2.835	0.000	2.835	0.0109	0.0247	8.35	9.00	2.0	0.24	0.0625	2.53	0.60	2.91	0.121	0.097	13	8	0.62	0.82	2.33	0.508	0.282					
STM285	Existing	18	0.25	0.90	0.225	0.225	9.0	2.025	0.000	2.025	0.0628	0.0408	3.74	7.00	2.0	0.53	0.0625	1.53	0.90	2.52	0.105	0.135	15	18	1.20	1.00	2.03	0.000	0.196					
STM0007	Existing	8	0.48	0.70	0.336	0.336	9.0	3.024	0.000	3.024	0.0648	0.0617	3.69	7.00	2.0	0.54	0.0625	1.01	0.88	2.02	0.084	0.135	18	8	0.44	0.65	1.97	1.050	0.229					
STM10422	Existing	8	0.72	0.80	0.576	0.576	9.0	5.184	0.000	5.184	0.0617	0.0352	6.10	7.00	2.0	0.33	0.0625	1.78	0.71	2.66	0.111	0.113	24	8	0.33	0.52	2.69	2.499	0.269					
STM10428	Existing	4	0.56	0.90	0.504	0.504	9.0	4.536	1.349	5.885	0.0112	0.0562	6.95	7.00	2.0	0.29	0.0625	1.11	0.60	2.15	0.090	0.110	16	4	0.25	0.40	2.38	3.507	0.403					
STM10432	Existing	10	0.82	0.90	0.738	0.738	9.0	6.642	0.022	6.664	0.0100	0.0335	9.85	7.00	2.0	0.20	0.0411	2.51	0.52	3.21	0.134	0.103	17	10	0.59	0.80	5.32	1.349	0.431					
STM10433A	Existing	4	0.15	0.90	0.135	0.135	9.0	1.215	1.738	2.953	0.0047	0.0830	5.13	6.52	2.0	0.39	0.0625	0.75	0.71	1.51	0.063	0.126	9	4	0.44	0.65	1.93	1.025	0.385					
STM10433B	Existing	4	0.31	0.80	0.248	0.248	9.0	2.232	4.210	6.442	0.0177	0.0823	5.37	6.56	2.0	0.37	0.0625	0.76	0.69	1.52	0.064	0.126	17	4	0.24	0.38	2.47	3.975	0.403					
STM10434	Existing	4	0.06	0.80	0.048	0.048	9.0	0.432	0.260	0.692	0.0128	0.0342	3.51	8.50	2.0	0.57	0.0625	1.83	0.93	2.68	0.112	0.138	6	4	0.67	0.86	0.60	0.096	0.177					
STM10440A	Existing	4	0.14	0.80	0.112	0.112	9.0	1.008	0.000	1.008	0.0063	0.0199	6.69	7.00	2.0	0.30	0.0625	3.14	0.73	3.02	0.126	0.112	7	4	0.57	0.78	0.79	0.219	0.218					
STM10440B	Existing	4	0.09	0.90	0.081	0.081	9.0	0.729	0.000	0.729	0.0025	0.0178	7.63	10.00	2.0	0.26	0.0625	3.51	0.69	3.07	0.128	0.106	5	4	0.80	0.94	0.69	0.040	0.265					

NUMBER	TYPE	LENGTH (FT)	DRAINAGE AREA (AC)	C	CA	sum CA	I (IN/HR)	Q INCR (CFS)	Q _c CARRYOVER (CFS)	Q _t GUTTER FLOW (CFS)	S _c GUTTER SLOPE (FT/FT)	S _x CROSS SLOPE (FT/FT)	T _s SPREAD (FT)	ALLOWABLE SPREAD (FT)	W (FT)	W/T	S _w (FT/FT)	S _w /S _x	E _b	a = 12W(S _w - S _x) ² /Local Depression	S _w = a/(12w)	S _p = S _x + S _w (E _b) (FT/FT)	COMPUTED LENGTH, L _r (FT)	L _s SPECIFIED LENGTH (FT)	L/L _r	E	Q _i INTERCEPTED (CFS)	Q _b CARRYOVER (CFS)	d (FT)	h (FT)	d/h	T _s SPREAD @ SAG (FT)
INLETS - IN SAG																																
STM121	Existing	8	0.31	0.80	0.248	0.248	9.0	2.232	0.000	2.232	0.0010	0.0213	14.36	8.00	2.0	0.14	0.0625	2.93	0.40	2.99	0.125	0.072	5.29	8	1.51	1.00	2.23	0.000	0.306	0.460	0.665	14.359
STM121	Existing	8	0.28	0.80	0.224	0.224	9.0	2.016	0.265	2.281	0.0010	0.0213	14.36	8.00	2.0	0.14	0.0625	2.93	0.40	2.99	0.125	0.071	5.18	8	1.54	1.00	2.28	0.000	0.635	0.460	1.380	11.101
STM3010	Existing	4	0.64	0.90	0.576	0.576	9.0	5.184	1.393	6.577	0.0010	0.0572	11.33	8.00	2.0	0.18	0.0625	1.09	0.41	2.13	0.089	0.093	7.04	4	0.57	0.78	4.45	2.128				
STM3010	Existing	4	0.28	0.90	0.252	0.252	9.0	2.268	0.000	2.268	0.0010	0.0572	11.33	8.00	2.0	0.18	0.0625	1.09	0.56	2.13	0.089	0.107	4.30	4	0.93	0.99	2.13	0.135				
STM0005	Existing	8	0.19	0.90	0.171	0.171	9.0	1.539	0.000	1.539	0.0010	0.0200	12.11	8.00	2.0	0.17	0.0625	3.13	0.45	3.02	0.126	0.077										

LD-204 Stormwater Inlet Computations - Proposed

LD-204 Rev. 6-85 PROJ West End Transitway DATE July 10, 2024 DESIGNED/CHECKED Nasima Sadr/Derik Doughty, P.E.

INLET			Sag Inlets Only																														
NUMBER	TYPE	LENGTH (FT)	DRAINAGE AREA (AC)	C	CA	sum CA	I (IN/HR)	Q INCR (CFS)	Q _c CARRYOVER (CFS)	Q _r GUTTER FLOW (CFS)	S ₁ GUTTER SLOPE (FT/FT)	S ₂ CROSS SLOPE (FT/FT)	T ₁ SPREAD (FT)	ALLOWABLE SPREAD (FT)	W (FT)	W/T	S _w (FT/FT)	S _w /S _x	E _b	a = 12W/(S _w - S _x) ² Local Depression	S _w = a/(12w)	S ₀ = S _x + S _w (E _b) (FT/FT)	COMPUTED LENGTH, L _r (FT)	L _r SPECIFIED LENGTH (FT)	L/L _r	E	Q _i INTERCEPTED (CFS)	Q _b CARRYOVER (CFS)	d (FT)	h (FT)	d/h	T ₁ SPREAD @ SAG (FT)	
(1)	(2)	(3)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(15.5)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(31)	(32)	(33)	
INLETS - ON GRADE																																	
STM122	Existing	6	0.06	0.90	0.054	0.054	9.0	0.486	0.000	0.486	0.0248	0.0184	2.72	10.00	2.0	0.74	0.0625	3.40	0.99	3.06	0.127	0.145	6	6	1.00	1.00	0.49	0.000	0.138				
STM123	Existing	6	0.28	0.90	0.252	0.252	9.0	2.268	0.000	2.268	0.0276	0.0290	5.62	10.00	2.0	0.36	0.0625	2.16	0.77	2.80	0.117	0.119	13	6	0.46	0.67	1.52	0.744	0.230				
STM2001	Existing	4	0.02	0.90	0.018	0.018	9.0	0.162	0.000	0.162	0.0277	0.0116	4.12	10.00	1.0	0.24	0.0116	1.00	0.52	1.00	0.083	0.055	7	4	0.57	0.78	0.13	0.035	0.048				
STM2-2	CSDI-1	12	0.13	0.90	0.117	0.117	9.0	1.053	0.000	1.053	0.0200	0.0200	5.02	9.00	2.0	0.40	0.0625	3.13	0.86	3.02	0.126	0.128	9	12	1.33	1.00	1.05	0.000	0.185				
STM2002	Existing	10	0.63	0.60	0.378	0.378	9.0	3.402	0.035	3.437	0.0565	0.0510	4.33	9.35	2.0	0.46	0.0625	1.23	0.83	2.28	0.095	0.129	19	10	0.53	0.74	2.54	0.896	0.244				
STM3021	Existing	8	0.44	0.90	0.396	0.396	9.0	3.564	0.000	3.564	0.0490	0.0357	5.42	8.00	2.0	0.37	0.0625	1.75	0.76	2.64	0.110	0.119	19	8	0.42	0.63	2.23	1.333	0.247				
STM3012	CSDI-1	16	0.18	0.90	0.162	0.162	9.0	1.458	1.333	2.791	0.0211	0.0200	8.11	8.50	2.0	0.25	0.0625	3.13	0.64	3.02	0.126	0.100	15	16	1.07	1.00	2.79	0.000	0.247				
STM3017	DI-2B	20	0.73	0.80	0.584	0.584	9.0	5.256	0.000	5.256	0.0215	0.0360	7.84	8.00	1.0	0.13	0.0360	1.00	0.30	1.00	0.083	0.061	26	20	0.77	0.93	4.88	0.375	0.282				
STM3020	Existing	8	0.20	0.90	0.180	0.180	9.0	1.620	0.375	1.995	0.0199	0.0264	6.01	9.50	2.0	0.33	0.0625	2.37	0.75	2.87	0.119	0.116	12	8	0.67	0.86	1.72	0.276	0.231				
STM2226	Existing	14	0.22	0.90	0.198	0.198	9.0	1.782	0.696	2.478	0.0733	0.0475	3.71	8.00	2.0	0.54	0.0625	1.32	0.89	2.36	0.098	0.135	17	14	0.82	0.96	2.37	0.109	0.206				
STM4-1	CSDI-1	8	0.27	0.90	0.243	0.243	9.0	2.187	0.000	2.187	0.0747	0.0200	5.23	8.00	2.0	0.38	0.0625	3.13	0.84	3.02	0.126	0.126	17	8	0.47	0.68	1.49	0.696	0.190				
STM221	Existing	8	0.18	0.90	0.162	0.162	9.0	1.458	0.000	1.458	0.0524	0.0559	3.01	8.00	2.0	0.67	0.0625	1.12	0.95	2.16	0.090	0.141	12	8	0.67	0.86	1.26	0.202	0.181				
STM4-5	Existing	16	0.24	0.90	0.216	0.216	9.0	1.944	0.000	1.944	0.0518	0.0245	4.88	8.00	2.0	0.41	0.0625	2.55	0.85	2.91	0.121	0.127	14	16	1.14	1.00	1.94	0.000	0.196				
STM228	Existing	14	0.35	0.90	0.315	0.315	9.0	2.835	0.603	3.438	0.0609	0.0304	5.53	8.00	2.0	0.36	0.0625	2.06	0.77	2.77	0.115	0.119	20	14	0.70	0.89	3.04	0.394	0.232				
STM4-3	Existing	4	0.06	0.90	0.054	0.054	9.0	0.486	0.000	0.486	0.0443	0.0200	1.99	7.50	2.0	1.00	0.0625	3.13	1.00	3.02	0.126	0.146	7	4	0.57	0.78	0.38	0.106	0.124				
STM216	Existing	8	0.33	0.80	0.264	0.264	9.0	2.376	0.000	2.376	0.0370	0.0220	6.23	7.00	2.0	0.32	0.0625	2.84	0.75	2.97	0.124	0.115	15	8	0.53	0.75	1.77	0.603	0.218				
STM238	Existing	8	0.35	0.90	0.315	0.315	9.0	2.835	0.000	2.835	0.0109	0.0330	8.35	9.00	2.0	0.24	0.0625	2.53	0.60	2.91	0.121	0.097	13	8	0.62	0.82	2.33	0.508	0.282				
STM54	CSDI-1	16	0.25	0.90	0.225	0.225	9.0	2.025	0.000	2.025	0.0678	0.0200	5.15	7.00	2.0	0.39	0.0625	3.13	0.85	3.02	0.126	0.127	16	16	1.00	1.00	2.03	0.000	0.188				
STM0007	Existing	20	0.48	0.70	0.336	0.336	9.0	3.024	0.000	3.024	0.0648	0.0617	3.69	7.00	2.0	0.54	0.0625	1.01	0.88	2.02	0.084	0.135	18	20	1.11	1.00	3.02	0.000	0.229				
STM10422	Existing	8	0.72	0.90	0.648	0.648	9.0	5.832	0.000	5.832	0.0617	0.0352	6.41	7.00	2.0	0.31	0.0625	1.78	0.68	2.66	0.111	0.111	26	8	0.31	0.48	2.82	3.009	0.280				
STM10428	Existing	4	0.56	0.90	0.504	0.504	9.0	4.536	1.105	5.641	0.0112	0.0562	6.84	7.00	2.0	0.29	0.0625	1.11	0.61	2.15	0.090	0.111	15	4	0.27	0.43	2.41	3.227	0.397				
STM10432	CSDI-1	12	0.82	0.90	0.738	0.738	9.0	6.642	0.022	6.664	0.0186	0.0350	8.43	7.50	2.0	0.24	0.0841	2.40	0.59	3.18	0.132	0.113	19	12	0.63	0.83	5.56	1.105	0.393				
STM10433	Existing	4	0.15	0.90	0.135	0.135	9.0	1.215	1.277	2.492	0.0047	0.0830	8.43	6.52	2.0	0.41	0.0625	0.75	0.74	1.51	0.063	0.129	8	4	0.50	0.71	1.78	0.716	0.360				
STM10433E	Existing	4	0.31	0.80	0.248	0.248	9.0	2.232	3.778	6.010	0.0177	0.0823	5.24	6.56	2.0	0.38	0.0625	0.76	0.70	1.52	0.064	0.127	17	4	0.24	0.38	2.30	3.708	0.392				
STM10434	Existing	4	0.31	0.90	0.279	0.279	9.0	2.511	0.104	2.615	0.0128	0.0342	6.47	8.50	2.0	0.31	0.0625	1.83	0.68	2.68	0.112	0.110	12	4	0.33	0.52	1.35	1.260	0.278				
STM7-1	CSDI-1	4	0.07	0.80	0.056	0.056	9.0	0.504	0.000	0.504	0.0085	0.0280	3.58	7.00	2.0	0.56	0.0625	2.23	0.94	2.83	0.118	0.139	5	4	0.80	0.94	0.48	0.028	0.169				
STM7-3	CSDI-1	4	0.07	0.90	0.063	0.063	9.0	0.567	0.000	0.567	0.0045	0.0218	5.15	7.00	2.0	0.39	0.0625	2.87	0.84	2.98	0.124	0.126	5	4	0.80	0.94	0.54	0.031	0.194				

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VDOT Drainage Manual

LD-204 Stormwater Inlet Computations - Proposed

LD-204 Rev. 6-85 PROJ West End Transitway DATE July 10, 2024 DESIGNED/CHECKED Nasima Sadr/Derik Doughty, P.E.

INLET			Sag Inlets Only																													
NUMBER	TYPE	LENGTH (FT)	DRAINAGE AREA (AC)	C	CA	sum CA	I (IN/HR)	Q INCR (CFS)	Q _c CARRYOVER (CFS)	Q _r GUTTER FLOW (CFS)	S ₁ GUTTER SLOPE (FT/FT)	S ₂ CROSS SLOPE (FT/FT)	T ₁ SPREAD (FT)	ALLOWABLE SPREAD (FT)	W (FT)	W/T	S _w (FT/FT)	S _w /S _x	E _b	a = 12W/(S _w - S _x) ² Local Depression	S _w = a/(12w)	S ₀ = S _x + S _w (E _b) (FT/FT)	COMPUTED LENGTH, L _r (FT)	L _r SPECIFIED LENGTH (FT)	L/L _r	E	Q _i INTERCEPTED (CFS)	Q _b CARRYOVER (CFS)	d (FT)	h (FT)	d/h	T ₁ SPREAD @ SAG (FT)
(1)	(2)	(3)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(15.5)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(31)	(32)	(33)
INLETS - IN SAG																																
STM3010	CSDI-1	4	0.64	0.90	0.576	0.576	9.0	5.184	0.000	5.184	0.0010	0.0572	10.35	8.00	2.0	0.19	0.0625	1.09	0.44	2.13	0.089	0.096	6.49	4	0.62	0.82	3.82	1.363				
STM3010	CSDI-1	4	0.03	0.90	0.027	0.027	9.0	0.243	0.000	0.243	0.0010	0.0572	10.35	8.00	2.0	0.19	0.0625	1.09	0.93	2.13	0.089	0.140	1.45	4	2.75	1.00	0.24	0.000				
STM00005	Existing	8	0.17	0.90	0.153	0.153	9.0	1.377	0.000	1.377	0.0010	0.0200	11.57	8.00	2.0	0.17	0.0625	3.13	0.47	3.02	0.126	0.080	4.04	8	1.98	1.00	1.38	0.000				
STM00005	Existing	8	0.13	0.90	0.117	0.117	9.0	1.053	0.000	1.053	0.0010	0.0200	11.57	8.00	2.0	0.17	0.0625	3.13	0.52	3.02	0.126	0.086	3.45	8	2.32	1.00	1.05	0.000				
STM20146	Existing	4	0.01	0.90	0.009	0.009	9.0	0.081	0.000	0.081	0.0010	0.0625	5.19	7.00	2.0	0.39	0.0625	1.00														



Existing Van Dorn Street Storm Drain Design Calculations
VDOT LD-229

Project: West End Transitway
Locality: City of Alexandria
Date: 7/10/2024
Project #: 110104122
Designed By/Checked: Nasima Sadr/Derik Doughty, P.E.

FROM POINT	TO POINT	DRAINAGE AREA acres	RUNOFF COEFFICIENT C	CA		INLET TIME min	RAINFALL in/hr	RUNOFF cfs	INVERT ELEVATIONS		LENGTH ft	SLOPE %	PIPE SIZE in	PIPE CAPACITY cfs	Q / Q _c %	VELOCITY fps	FLOW TIME	
				inlet	accum				upper end	lower end							incr	accum
STM123	STM2003	0.28	0.90	0.25	0.25	5.00	6.86	1.74	115.82	115.00	63	1.30%	15	7.36	24%	4.91	0.21	5.00
STM2002	STM2001	0.63	0.60	0.38	0.38	5.00	6.86	2.61	113.88	113.54	34	1.00%	15	6.47	40%	4.99	0.11	5.00
STM2001	STM2000	0.02	0.90	0.02	0.40	5.00	6.82	2.72	113.44	113.00	45	1.00%	18	10.48	26%	4.98	0.15	5.11
STM2000	STM50	0.14	0.50	0.07	0.47	5.00	6.78	3.18	111.83	109.90	65	3.00%	30	70.68	4%	7.27	0.15	5.26
STM122	STM00001	0.17	0.90	0.15	0.15	5.00	6.86	1.06	113.97	111.87	26	7.90%	15	18.21	6%	8.08	0.05	5.00
STM121	STM51	0.59	(N/A)	0.00	0.47	5.00	6.86	3.26	113.33	111.88	40	3.60%	15	12.33	26%	8.49	0.08	5.00
STM51	STM00001	6.64	0.70	4.65	5.12	5.00	6.84	35.27	111.75	110.62	136	0.80%	30	37.45	94%	8.68	0.26	5.08
STM00001	STM50	(N/A)	(N/A)	0.00	5.27	0.00	6.75	35.89	110.62	109.96	79	0.80%	30	37.45	96%	8.69	0.15	5.34
STM50	STM2003	(N/A)	(N/A)	0.00	5.74	0.00	6.71	38.79	104.39	104.55	54	-0.30%	30	22.44	173%	7.90	0.11	5.49
STM2004	STM2003	0.13	0.90	0.12	0.12	5.00	6.86	0.81	124.18	115.16	207	4.40%	15	13.48	6%	6.05	0.57	5.00
STM2003	STM321	(N/A)	(N/A)	0.00	6.11	0.00	6.67	41.07	104.24	102.91	88	1.50%	36	82.10	50%	11.62	0.13	5.60
STM3007	STM3010	12.62	0.80	10.10	10.10	11.00	5.38	54.74	86.27	84.88	59	2.40%	36	102.32	53%	7.74	0.13	11.00
STM3029	STM3010	1.50	0.80	1.20	1.20	5.00	6.86	8.30	84.86	84.88	31	-0.10%	15	1.64	506%	6.76	0.08	5.00
STM3010	STM214	1.77	(N/A)	0.00	12.80	5.00	5.36	69.11	84.68	83.41	43	3.00%	30	70.71	98%	14.08	0.05	11.13
STM3021	STM3012	0.44	0.90	0.40	0.40	5.00	6.86	2.74	91.05	87.36	146	2.50%	15	10.26	27%	7.08	0.34	5.00
STM3012	STM214	0.19	0.80	0.15	0.55	5.00	6.75	3.73	87.35	85.69	45	3.70%	15	12.46	30%	8.86	0.08	5.35
STM214	STM57	(N/A)	(N/A)	0.00	13.35	0.00	5.35	71.94	83.40	82.40	74	1.40%	36	77.78	92%	12.49	0.10	11.18
STM3020	STM3016	0.20	0.90	0.18	0.18	5.00	6.86	1.24	86.78	86.63	32	0.50%	15	4.40	28%	3.08	0.17	5.00
STM3016	STM3017	(N/A)	(N/A)	0.00	0.18	0.00	6.80	1.23	86.55	86.42	29	0.40%	15	4.29	29%	3.02	0.16	5.18
STM3017	STM203	0.73	0.80	0.58	0.76	5.00	6.75	5.20	86.13	83.95	12	18.50%	15	27.80	19%	17.35	0.01	5.34
STM225	STM226	0.32	0.90	0.29	0.29	5.00	6.86	1.99	197.56	187.57	29	34.30%	15	37.84	5%	16.31	0.03	5.00
STM226	STM227	0.22	0.90	0.20	0.49	5.00	6.85	3.36	186.56	183.83	62	4.40%	18	21.98	15%	8.99	0.12	5.03
STM228	STM227	0.25	0.90	0.23	0.23	5.00	6.86	1.56	187.76	185.01	70	3.90%	15	12.78	12%	7.05	0.17	5.00
STM219	STM220	1.15	0.90	1.04	1.04	5.00	6.86	7.16	205.13	204.85	25	1.10%	15	6.86	104%	5.83	0.07	5.00
STM220	STM221	0.24	0.90	0.22	1.25	5.00	6.84	8.62	204.62	201.92	61	4.40%	18	22.10	39%	11.73	0.09	5.07
STM221	STM223	0.17	0.90	0.15	1.40	5.00	6.81	9.64	200.53	197.67	63	4.50%	18	22.36	43%	12.18	0.09	5.16
STM222	STM223	2.32	0.90	2.09	2.09	5.00	6.86	14.44	202.97	198.05	78	6.30%	15	16.25	89%	14.96	0.09	5.00
STM223	STM224	0.26	0.90	0.23	3.73	5.00	6.78	25.47	196.01	193.04	84	3.50%	24	42.62	60%	14.17	0.10	5.24
STM216	STM217	0.33	0.80	0.26	0.26	5.00	6.86	1.83	204.55	203.62	12	7.60%	15	17.86	10%	9.37	0.02	5.00
STM217	STM207	(N/A)	(N/A)	0.00	0.26	0.00	6.85	1.82	201.30	198.96	41	5.70%	15	15.35	12%	8.42	0.08	5.02
STM215	STM207	0.15	0.90	0.14	0.14	5.00	6.86	0.93	205.18	201.06	99	4.20%	15	13.21	7%	6.22	0.26	5.00
STM207	STM224	(N/A)	(N/A)	0.00	0.40	0.00	6.78	2.72	198.96	191.74	120	6.00%	18	25.75	11%	9.48	0.21	5.26
STM224	STM227	0.13	0.90	0.12	4.24	5.00	6.71	28.69	190.93	182.43	146	5.80%	21	38.26	75%	17.46	0.14	5.48
STM227	STM3095	0.14	0.80	0.11	5.07	5.00	6.67	34.04	182.00	171.70	174	5.90%	21	38.61	88%	14.15	0.20	5.62
STM3095	STM3090	0.50	0.90	0.45	5.52	5.00	6.61	36.72	171.32	159.19	207	5.90%	21	38.33	96%	15.27	0.23	5.82
STM3090	STM3097	4.55	0.70	3.19	8.70	5.00	6.54	57.34	158.53	155.27	51	6.50%	30	104.20	55%	21.74	0.04	6.05
STM3097	STM3098	0.26	0.90	0.23	8.93	5.00	6.53	58.78	150.02	147.72	60	3.80%	30	80.25	73%	11.97	0.08	6.08
STM3098	STM3100	38.45	0.80	30.76	39.69	12.00	5.20	207.96	145.64	139.16	235	2.80%	48	238.61	87%	21.40	0.18	12.00
STM238	STM64	0.35	0.90	0.32	0.32	5.00	6.86	2.18	208.95	206.13	66	4.30%	15	13.32	16%	8.00	0.14	5.00
STM64	STM237	4.85	(N/A)	0.00	4.66	5.00	6.82	32.00	199.24	197.20	49	4.10%	18	21.39	150%	18.11	0.05	5.14
STM00002	STM10411	0.35	0.90	0.32	0.32	5.00	6.86	2.18	114.65	112.17	124	2.00%	15	9.13	24%	6.11	0.34	5.00
STM10407	STM10410	1.71	(N/A)	0.00	1.16	5.00	6.86	8.01	118.15	113.77	84	5.20%	30	93.70	9%	11.66	0.12	5.00
STM285	STM54	0.25	0.90	0.23	0.23	5.00	6.86	1.56	124.05	124.40	11	-3.20%	15	11.47	14%	1.27	0.15	5.00
STM284	STM54	2.47	0.80	1.98	1.98	5.00	6.86	13.66	124.99	123.32	45	3.70%	18	20.33	67%	12.34	0.06	5.00
STM54	STM10410	(N/A)	(N/A)	0.00	2.20	0.00	6.81	15.12	123.03	115.70	127	5.80%	15	15.50	98%	14.39	0.15	5.15
STM10410	STM10411	(N/A)	(N/A)	0.00	3.36	0.00	6.77	22.91	109.80	106.33	61	5.70%	36	159.41	14%	16.02	0.06	5.29
STM10411	STM10412	(N/A)	(N/A)	0.00	3.67	0.00	6.75	24.98	102.01	90.10	166	7.20%	36	178.80	14%	17.83	0.15	5.36
STM10412	STM1043	(N/A)	(N/A)	0.00	3.67	0.00	6.70	24.81	85.41	82.27	36	8.80%	36	198.19	13%	19.14	0.03	5.51
STM238	STM64	0.35	0.90	0.32	0.32	5.00	6.86	2.18	208.95	206.13	66	4.30%	15	13.32	16%	8.00	0.14	5.00
STM64	STM237	4.85	(N/A)	0.00	4.66	5.00	6.82	32.00	199.24	197.20	49	4.10%	18	21.39	150%	18.11	0.05	5.14
STM225	STM226	0.32	0.90	0.29	0.29	5.00	6.86	1.99	197.56	187.57	29	34.30%	15	37.84	5%	16.31	0.03	5.00
STM226	STM227	0.22	0.90	0.20	0.49	5.00	6.85	3.36	186.56	183.83	62	4.40%	18	21.98	15%	8.99	0.12	5.03
STM228	STM227	0.35	0.90	0.32	0.32	5.00	6.86	2.18	187.76	185.01	70	3.90%	15	12.78	12%	7.05	0.17	5.00
STM4-5	STM220	0.24	0.90	0.22	0.22	5.00	6.86	1.49	205.76	205.55	10	2.00%	18	14.86	10%	5.39	0.03	5.00
STM219	STM220	1.15	0.90	1.04	1.04	5.00	6.86	7.16	205.13	204.85	25	1.10%	15	6.86	104%	5.83	0.07	5.00
STM220	STM221	(N/A)	(N/A)	0.00	1.25	0.00	6.84	8.62	204.62	201.92	61	4.40%	18	22.10	39%	11.73	0.09	5.07
STM221	STM223	0.18	0.90	0.16	1.41	5.00	6.81	9.70	200.53	197.67	63	4.50%	18	22.36	43%	12.21	0.09	5.16
STM222	STM223	2.32	0.90	2.09	2.09	5.00	6.86	14.44	202.97	198.05	78	6.30%	15	16.25	89%	14.96	0.09	5.00
STM223	STM4-1	(N/A)	(N/A)	0.00	3.50	0.00	6.78	23.93	196.01	195.81	15	1.40%	24	26.35	91%	7.62	0.03	5.24
STM4-1	STM4-2	0.27	0.90	0.24	3.74	5.00	6.77	25.56	195.71	195.15	42	1.40%	24	26.33	97%	8.13	0.09	5.28
STM216	STM217	0.33	0.90	0.30	0.30	5.00	6.86	2.05	204.55	203.62	12	7.60%	15	17.86	11%	9.69	0.02	5.00
STM217	STM207	(N/A)	(N/A)	0.00	0.30	0.00	6.85	2.05	201.30	198.96	41	5.70%	15	15.35	13%	8.70	0.08	5.02
STM4-3	STM4-4	0.06	0.90	0.05	0.05	5.00	6.86	0.37	204.64	204.50	14	1.00%	15	6.47	6%	2.87	0.08	5.00
STM4-4	STM207	(N/A)	(N/A)	0.00	0.05	0.00	6.83	0.37	204.40	201.06	80	4.20%	15	13.21	3%	4.72	0.28	5.08
STM207	STM4-2	(N/A)	(N/A)	0.00	0.35	0.00	6.75	2.39	198.96	195.05	65	6.00%	18	25.75	9%	9.11	0.12	5.36
STM4-2	STM224	(N/A)	(N/A)	0.00	4.10	0.00	6.71	27.69	195.05	191.74	55	6.00%	24	55.46	50%	17.64	0.05	5.48
STM224	STM227	0.13	0.90	0.12	4.21	5.00	6.69	28.41	190.93	182.43	146	5.80%	21	38.26	74%	17.43	0.14	5.53
STM227	STM3095	0.14	0.80	0.11	5.13	5.00	6.65	34.35	182.00	171.70	174							



Project: West End Transitway
 Locality: City of Alexandria
 Date: 7/10/2024
 Project #: 110104122
 Designed By/Checked: Nasima Sadr/Derik Doughty, P.E.

Existing Beauregard Street Storm Drain Design Calculations
 VDOT LD-229

FROM POINT	TO POINT	DRAINAGE AREA acres	RUNOFF COEFFICIENT C	CA		INLET TIME min	RAINFALL in/hr	RUNOFF cfs	INVERT ELEVATIONS		LENGTH ft	SLOPE %	PIPE SIZE in	PIPE CAPACITY cfs	Q / Q _c %	VELOCITY fps	FLOW TIME	
				inlet	accum				upper end	lower end							incr	accum
STM20090	STM20083	0.54	(N/A)	0.00	0.49	5.00	6.86	3.36	134.84	132.58	127	1.80%	18	14.02	24%	6.51	0.32	5.00
STM20109	STM20083	0.61	0.90	0.55	0.55	5.00	6.86	3.80	133.78	132.95	24	3.40%	24	41.78	9%	8.27	0.05	5.00
STM20093	STM20083	2.48	0.80	1.98	1.98	5.00	6.86	13.72	131.00	130.22	53	1.50%	24	27.39	50%	8.72	0.10	5.00
STM20083	STM20078	(N/A)	(N/A)	0.00	3.02	0.00	6.76	20.56	130.17	123.62	52	12.60%	24	80.30	26%	21.39	0.04	5.33
STM83113	STM81407	0.29	0.90	0.26	0.26	5.00	6.86	1.80	135.88	133.91	8	25.40%	15	32.57	6%	14.26	0.01	5.00
STM81407	STM20074	0.09	0.90	0.08	0.34	5.00	6.86	2.36	133.91	131.44	19	13.10%	15	23.37	10%	12.22	0.03	5.01
STM499	STM20054	3.29	(N/A)	0.00	2.30	5.00	6.86	15.93	151.32	151.29	33	0.10%	18	3.18	501%	9.01	0.06	5.00
STM507	STM502	0.64	0.70	0.45	0.45	5.00	6.86	3.10	154.92	153.46	110	1.30%	18	12.10	26%	5.73	0.32	5.00
STM503	STM502	8.91	0.70	6.24	6.24	13.00	5.03	31.62	160.44	152.50	203	3.90%	24	44.69	71%	15.43	0.22	13.00
STM502	STM20054	(N/A)	(N/A)	0.00	6.69	0.00	4.99	33.66	151.32	150.20	64	1.80%	30	54.32	62%	11.65	0.09	13.22
STM20054	STM20720	(N/A)	(N/A)	0.00	8.99	0.00	4.98	45.12	150.18	149.10	18	6.20%	30	101.99	44%	20.15	0.01	13.31
STM491	STM492	1.83	(N/A)	0.00	1.10	5.00	6.86	7.59	153.84	153.38	33	1.40%	15	7.68	99%	6.19	0.09	5.00
STM494	STM492	0.24	0.90	0.22	0.22	5.00	6.86	1.49	156.60	153.37	41	7.80%	18	29.37	5%	8.70	0.08	5.00
STM493	STM492	1.42	0.80	1.14	1.14	5.00	6.86	7.86	171.40	155.53	145	11.00%	18	34.77	23%	15.90	0.15	5.00
STM492	STM495	0.14	0.80	0.11	2.56	5.00	6.81	17.59	153.58	153.37	38	0.60%	27	23.11	76%	6.40	0.10	5.15
STM495	STM496	0.09	0.90	0.08	2.64	5.00	6.78	18.06	153.31	153.37	29	-0.20%	27	14.10	128%	4.54	0.11	5.25
STM496	STM498	0.26	0.90	0.23	2.88	5.00	6.75	19.56	153.35	149.60	112	3.40%	24	41.47	47%	13.00	0.14	5.36
STM484	STM485	0.20	0.60	0.12	0.12	5.00	6.86	0.83	158.30	157.76	15	3.50%	12	6.70	12%	5.81	0.04	5.00
STM485	STM14253	0.78	0.60	0.47	0.59	5.00	6.85	4.06	157.43	156.67	34	2.30%	15	9.74	42%	7.57	0.07	5.04
STM479	STM481	3.60	0.70	2.52	2.52	5.00	6.86	17.43	177.02	176.45	14	4.20%	18	21.55	81%	9.86	0.02	5.00
STM481	STM14414	0.39	0.90	0.35	2.87	5.00	6.85	19.83	176.46	175.90	40	1.40%	18	12.39	160%	11.22	0.06	5.02
STM477	STM470	1.14	0.70	0.80	0.80	5.00	6.86	5.52	186.37	183.36	76	4.00%	24	45.07	12%	9.72	0.13	5.00
STM470	STM12244	46.65	0.70	32.66	33.45	21.00	4.02	135.70	181.25	178.90	94	2.50%	48	226.65	60%	18.84	0.08	21.00
STM464	STM465	0.57	0.70	0.40	0.40	5.00	6.86	2.76	190.11	189.70	20	2.00%	15	9.18	30%	6.54	0.05	5.00
STM463	STM465	0.34	0.50	0.17	0.17	5.00	6.86	1.18	200.42	190.59	202	4.90%	15	14.26	8%	7.02	0.48	5.00
STM465	STM466	0.07	0.50	0.04	0.60	5.00	6.71	4.08	189.21	188.53	17	4.00%	15	12.89	32%	9.32	0.03	5.48
STM466	STM20034	1.11	(N/A)	0.00	1.42	5.00	6.70	9.58	188.25	187.52	41	1.80%	18	13.97	69%	5.42	0.13	5.51
STM20034	STM468	35.01	0.70	24.51	25.93	23.00	3.84	100.31	185.30	184.93	16	2.30%	36	100.65	100%	14.19	0.02	23.00
STM468	STM469	0.27	0.80	0.22	26.14	5.00	3.84	101.11	184.59	181.60	94	3.20%	36	119.27	85%	18.94	0.08	23.02
STM469	STM21243	1.30	0.80	1.04	27.18	5.00	3.83	104.93	180.82	179.58	76	1.60%	48	182.98	57%	15.06	0.08	23.10
STM364	STM363	0.20	0.90	0.18	0.18	5.00	6.86	1.24	234.08	233.23	85	1.00%	15	6.46	19%	4.07	0.35	5.00
STM363	STM362	0.13	0.80	0.10	0.28	5.00	6.75	1.93	232.96	231.73	158	0.80%	15	5.71	34%	1.57	0.67	5.35
STM362	STM361	0.66	0.90	0.59	0.88	5.00	6.27	5.55	231.81	231.72	10	0.90%	15	6.20	90%	4.52	0.04	7.02
STM361	STM360	0.63	0.80	0.50	1.38	5.00	6.26	8.72	231.18	230.30	66	1.30%	18	12.13	72%	4.93	0.22	7.05
STM367	STM366	0.78	0.70	0.55	0.55	5.00	6.86	3.78	234.49	233.64	66	1.30%	15	7.34	51%	6.02	0.18	5.00
STM366	STM365	0.31	0.80	0.25	0.79	5.00	6.80	5.44	233.37	231.47	202	0.90%	18	10.19	53%	5.86	0.57	5.18
STM365	STM360	(N/A)	(N/A)	0.00	0.79	0.00	6.62	5.30	230.74	230.39	199	0.20%	18	4.40	120%	3.00	1.11	5.76
STM360	STM359	0.53	0.80	0.42	2.60	5.00	6.20	16.25	230.01	224.52	300	1.80%	18	14.20	114%	9.20	0.54	7.28
STM370	STM368	0.27	0.70	0.19	0.19	5.00	6.86	1.31	232.25	232.23	41	0.00%	15	1.42	92%	1.32	0.52	5.00
STM369	STM368	0.24	0.50	0.12	0.12	5.00	6.86	0.83	232.69	232.20	25	2.00%	15	9.09	9%	4.61	0.09	5.00
STM368	STM371	0.34	(N/A)	0.00	0.56	5.00	6.70	3.81	231.87	230.26	205	0.80%	15	5.73	66%	4.99	0.68	5.52
STM305	STM60	4.90	0.70	3.43	3.43	10.00	5.57	19.27	100.76	100.54	30	0.70%	30	34.99	55%	7.30	0.07	10.00
STM307	STM60	0.39	0.70	0.27	0.27	5.00	6.86	1.89	102.56	101.74	58	1.40%	15	7.66	25%	5.17	0.19	5.00
STM306	STM60	2.52	(N/A)	0.00	1.76	5.00	6.86	12.20	102.32	100.54	9	19.40%	24	99.72	12%	21.51	0.01	5.00
STM60	STM62	(N/A)	(N/A)	0.00	5.47	0.00	5.56	30.64	100.48	100.13	39	0.90%	30	38.85	79%	8.77	0.07	10.07
STM303	STM62	0.64	(N/A)	0.00	0.51	5.00	6.86	3.50	101.16	100.13	8	13.00%	30	147.73	2%	12.53	0.01	5.00
STM62	STM300	(N/A)	(N/A)	0.00	5.97	0.00	5.55	33.39	100.13	99.84	19	1.50%	30	50.48	66%	10.99	0.03	10.14
STM300	STM310	1.06	0.70	0.74	6.72	5.00	5.54	37.49	98.41	97.56	109	0.80%	36	58.80	64%	8.82	0.21	10.17
STM2005	STM332	7.01	0.70	4.91	4.91	11.00	5.38	26.60	109.79	104.86	197	2.50%	30	64.87	41%	12.56	0.26	11.00
STM332	STM61	0.34	0.70	0.24	5.15	5.00	5.33	27.64	104.62	103.72	41	2.20%	30	60.62	46%	12.07	0.06	11.26
STM61	STM210	(N/A)	(N/A)	0.00	5.15	0.00	5.32	27.59	103.34	103.00	39	0.90%	30	38.09	72%	8.46	0.08	11.32
STM210	STM311	(N/A)	(N/A)	0.00	5.15	0.00	5.31	27.51	102.68	100.61	38	5.40%	30	95.47	29%	16.81	0.04	11.40
STM315	STM314	1.02	0.70	0.71	0.71	5.00	6.86	4.94	110.65	108.88	51	3.50%	15	12.04	41%	9.32	0.09	5.00
STM316	STM317	4.08	(N/A)	0.00	2.90	12.00	5.20	15.19	111.81	110.61	67	1.80%	18	14.03	108%	8.60	0.13	12.00
STM333	STM317	1.55	0.70	1.09	1.09	5.00	6.86	7.50	116.20	110.77	173	3.10%	15	11.45	66%	9.95	0.29	5.00
STM317	STM2004	0.48	(N/A)	0.00	4.33	5.00	5.18	22.58	110.22	110.15	15	0.50%	24	15.31	147%	7.19	0.04	12.13
STM331	STM2004	0.60	0.70	0.42	0.42	5.00	6.86	2.90	112.28	110.56	39	4.40%	15	13.50	21%	8.77	0.07	5.00
STM2004	STM314	(N/A)	(N/A)	0.00	4.75	0.00	5.17	24.74	110.02	108.27	88	2.00%	24	31.85	78%	11.20	0.13	12.17
STM314	STM313	(N/A)	(N/A)	0.00	5.46	0.00	5.15	28.33	108.27	108.20	7	1.00%	24	22.95	123%	9.02	0.01	12.30
STM313	STM209	0.30	(N/A)	0.00	5.65	5.00	5.14	29.29	107.74	106.41	55	2.40%	24	35.33	83%	12.57	0.07	12.31
STM209	STM311	(N/A)	(N/A)	0.00	5.65	0.00	5.13	29.22	101.93	100.62	75	1.70%	24	29.85	98%	9.30	0.13	12.38
STM311	STM310	0.67	(N/A)	0.00	11.07	5.00	5.11	56.99	100.46	97.04	273	1.30%	36	74.68	76%	11.63	0.39	12.52
STM310	STM00010	0.56	0.70	0.39	18.17	5.00	5.05	92.41	97.02	92.69	181	2.40%	36	103.14	90%	16.50	0.18	12.91



Project: West End Transitway
 Locality: City of Alexandria
 Date: 7/10/2024
 Project #: 110104122
 Designed By/Checked: Nasima Sadr/Derik Doughty, P.E.

Proposed Beauregard Street Storm Drain Design Calculations
 VDOT LD-229

FROM POINT	TO POINT	DRAINAGE AREA acres	RUNOFF COEFFICIENT C	CA		INLET TIME min	RAINFALL in/hr	RUNOFF cfs	INVERT ELEVATIONS		LENGTH ft	SLOPE %	PIPE SIZE in	PIPE CAPACITY cfs	Q / Q _c %	VELOCITY fps	FLOW TIME	
				inlet	accum				upper end	lower end							incr	accum
STM14-2	STM20084	0.44	0.90	0.40	0.40	5.00	6.86	2.74	136.00	134.68	66	2.00%	18	14.85	18%	6.41	0.17	5.00
STM20090	STM20083																	



Existing Van Dorn Street Hydraulic Grade Line Calculations
VDOT LD-347

Project: West End Transitway
Locality: City of Alexandria
Date: 7/10/2024

Project #: 110104122

Designed By/Checked: Nasima Sadr/Derik Doughty, P.E.

INLET	DESIGN OUTLET WSE	D _o	Q _o	L _o	S ₁₀	H _f	JUNCTION LOSS										FINAL H	INLET WSE	RIM ELEV	AVAILABLE FREEBOARD		
							V _o	H _o	Q ₁	V ₁	Q _{V1}	$\frac{V^2}{2g}$	H ₁	Angle	H _a	H _t					1.3 H _t	0.5 H _t
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	
Outfall A																						
STM2003	105.31	36	41.07	88	0.0140	1.23	6.77	0.18	38.79	7.82	303.34	0.95	0.33	0.58	0.01	0.52	0.52	0.26	1.49	106.80	120.81	14.01
STM123	116.00	15	1.74	63	0.0120	0.76	4.91	0.11	0.00	3.57	0.00	0.20	0.07	0	0.00	0.18	0.24	0.12	0.88	116.88	119.45	2.57
STM2004	116.16	15	0.81	207	0.0420	8.70	6.05	0.17	0.00	2.85	0.00	0.13	0.04	0	0.00	0.21	0.28	0.14	8.84	125.27	129.61	4.34
STM50	106.80	30	38.79	54	0.0090	0.48	8.77	0.30	35.89	7.90	283.53	0.97	0.34	83.18	0.65	1.29	1.29	0.64	1.13	107.92	120.91	12.99
STM2000	111.90	30	3.18	65	0.0240	1.56	7.27	0.21	2.72	3.64	9.90	0.21	0.07	6.18	0.02	0.29	0.38	0.19	1.75	113.85	117.38	3.53
STM2001	114.20	18	2.72	45	0.0090	0.40	4.98	0.10	2.61	3.90	10.18	0.24	0.08	55.84	0.13	0.31	0.31	0.15	0.55	114.75	117.86	3.11
STM2002	114.75	15	2.61	34	0.0100	0.34	3.95	0.07	0.00	4.07	0.00	0.26	0.09	0	0.00	0.16	0.21	0.11	0.44	115.20	117.83	2.63
STM00001	111.96	30	35.89	79	0.0080	0.63	8.69	0.29	35.27	8.40	296.27	1.10	0.38	89.71	0.77	1.44	1.44	0.72	1.35	113.31	118.91	5.60
STM122	113.31	15	1.06	26	0.0590	1.56	0.94	0.00	0.00	3.07	0.00	0.15	0.05	0	0.00	0.06	0.07	0.04	1.59	115.40	118.87	3.47
STM51	113.31	30	35.27	136	0.0080	1.09	7.42	0.21	3.26	8.31	27.09	1.07	0.38	51.74	0.55	1.14	1.14	0.74	1.82	115.14	117.49	2.35
STM121	115.14	15	3.26	40	0.0060	2.4	2.66	0.03	0.00	4.40	0.00	0.30	0.11	0	0.00	0.14	0.18	0.09	0.33	116.57	117.33	0.76
Outfall B																						
STM214	84.80	36	71.94	74	0.0120	0.88	12.07	0.57	69.11	10.79	745.70	1.81	0.63	113.22	1.43	2.63	2.63	1.32	2.20	87.00	90.73	3.73
STM3012	87.00	15	3.73	45	0.0320	1.43	3.06	0.04	2.74	4.63	12.69	0.33	0.12	13.05	0.05	0.21	0.27	0.14	1.56	88.65	91.41	2.76
STM3021	88.65	15	2.74	146	0.0250	3.66	3.00	0.04	0.00	4.13	0.00	0.26	0.09	0	0.00	0.13	0.18	0.09	3.75	92.39	95.77	3.38
STM3010	87.00	30	69.11	43	0.0280	1.20	14.08	0.77	54.74	14.08	770.74	3.08	1.08	55.09	1.63	3.48	3.48	1.74	2.94	89.93	91.18	1.25
STM3029	89.93	15	8.30	31	0.0170	0.53	6.76	0.21	0.00	6.76	0.00	0.71	0.25	0	0.00	0.46	0.60	0.30	0.83	90.76	92.67	1.91
STM3007	89.93	36	54.74	59	0.0070	0.41	7.74	0.28	0.00	7.74	0.00	0.93	0.33	0	0.00	0.60	0.79	0.39	0.81	91.35	91.52	0.17
Outfall C																						
STM3017	84.95	15	5.20	12	0.1840	2.17	4.94	0.09	1.23	5.34	6.57	0.44	0.15	87.45	0.31	0.56	0.72	0.36	2.53	87.48	91.41	3.93
STM3016	87.48	15	2.29	29	0.0010	0.03	1.64	0.01	1.24	2.05	2.54	0.07	0.02	34.82	0.03	0.06	0.06	0.03	0.06	87.60	90.80	3.20
STM3020	87.63	15	1.24	32	0.0030	0.10	2.26	0.02	0.00	3.02	0.00	0.14	0.05	0	0.00	0.07	0.10	0.05	0.14	87.79	90.36	2.57
Outfall D																						
STM3098	142.36	48	207.96	235	0.0220	5.17	20.47	1.63	58.90	16.72	984.81	4.34	1.52	87.02	2.99	6.13	7.97	3.99	9.15	151.51	174.02	22.51
STM3097	151.51	30	58.78	60	0.0210	1.26	12.00	0.56	67.45	12.00	689.40	2.24	0.78	5.19	0.15	1.49	1.49	0.74	2.01	153.80	165.41	11.61
STM3090	157.27	30	57.34	51	0.0280	1.41	17.67	1.21	36.79	11.93	438.90	2.21	0.77	73.06	1.39	3.38	4.39	2.20	3.61	160.88	166.10	5.22
STM3095	160.88	21	36.72	207	0.0540	11.19	15.30	0.91	34.04	15.30	520.81	3.63	1.27	0.24	0.01	2.19	2.19	1.10	12.28	173.16	177.41	4.25
STM227	173.16	21	34.04	174	0.0460	7.98	14.15	0.78	28.69	14.15	405.96	3.11	1.09	46.84	1.50	3.36	3.36	1.68	9.66	183.40	189.26	5.86
STM228	186.01	15	1.56	70	0.0340	2.39	7.05	0.23	0.00	3.45	0.00	0.30	0.39	0	0.00	0.30	0.39	0.19	2.58	188.75	191.84	3.09
STM226	185.03	18	3.36	62	0.0440	2.74	3.73	0.05	1.99	4.16	8.28	0.27	0.09	41.87	0.12	0.27	0.35	0.17	2.92	187.95	191.72	3.77
STM225	188.57	15	1.99	29	0.2210	6.43	16.31	1.24	0.00	3.72	0.00	0.21	0.08	0	0.00	1.31	1.71	0.85	7.29	198.55	201.27	2.72
STM224	183.83	21	28.69	146	0.0550	8.02	11.93	0.55	25.47	12.00	305.64	2.24	0.78	46.95	1.08	2.41	2.41	1.21	9.23	193.06	197.84	4.78
STM223	194.64	24	25.47	84	0.0230	1.93	13.35	0.69	14.44	8.65	124.91	1.16	0.41	33.37	0.44	1.54	1.54	0.77	2.69	197.57	201.97	4.40
STM222	199.05	15	14.44	78	0.0520	4.04	14.57	0.99	0.00	11.79	0.00	2.16	0.76	0	0.00	1.74	2.27	1.13	5.17	204.22	208.86	4.64
STM221	198.87	18	9.64	63	0.0450	2.84	5.72	0.13	8.62	6.37	54.91	0.63	0.22	3.08	0.02	0.37	0.48	0.24	3.08	201.95	206.02	4.07
STM220	203.12	18	8.62	61	0.0290	1.77	11.30	0.50	7.16	6.00	42.96	0.56	0.20	89.27	0.39	1.08	1.41	0.70	2.47	205.80	209.24	3.44
STM219	205.85	15	7.16	25	0.0120	0.30	5.83	0.16	0.00	5.83	0.00	0.53	0.18	0	0.00	0.34	0.45	0.22	0.52	206.37	209.40	3.03
STM207	193.06	18	2.72	120	0.0470	5.64	1.54	0.01	1.82	3.90	7.10	0.24	0.08	0.12	0.00	0.09	0.09	0.05	5.69	200.26	205.58	5.32
STM217	200.26	15	1.82	41	0.0550	2.28	2.69	0.03	1.83	3.62	6.62	0.20	0.07	15.88	0.04	0.14	0.14	0.07	2.35	202.62	208.25	5.63
STM216	204.62	15	1.83	12	0.0310	0.38	7.99	0.30	0.00	3.62	0.00	0.20	0.07	0	0.00	0.37	0.48	0.24	0.62	205.55	208.34	2.79
STM215	202.06	15	0.93	99	0.0390	3.84	6.22	0.18	0.00	2.97	0.00	0.14	0.05	0	0.00	0.23	0.30	0.15	3.99	206.20	208.78	2.58
Outfall E																						
STM64	198.40	18	32.00	49	0.0930	4.58	18.11	1.27	2.18	18.11	39.48	5.09	1.78	2.03	0.13	3.19	4.14	2.07	6.65	205.05	213.95	8.90
STM238	207.13	15	2.18	66	0.0350	2.32	8.00	0.30	0.00	3.83	0.00	0.23	0.08	0	0.00	0.38	0.49	0.25	2.57	209.98	214.00	4.02
Outfall F																						
STM10412	84.67	36	24.81	36	0.0770	2.74	4.09	0.06	24.98	6.44	160.87	0.64	0.23	37.79	0.27	0.56	0.56	0.28	3.02	87.80	96.10	8.30
STM10411	92.50	36	24.98	166	0.0510	8.45	17.83	1.23	22.91	6.45	147.77	0.65	0.23	82.69	0.43	1.89	1.89	0.95	9.40	104.43	118.59	14.16
STM00002	113.17	15	2.18	124	0.0190	2.36	6.11	0.12	0.00	3.83	0.00	0.25	0.08	0	0.00	0.25	0.33	0.16	2.52	115.69	119.89	4.20
STM10410	108.73	36	22.91	61	0.0260	1.58	14.30	0.79	15.12	6.26	94.65	0.61	0.21	3.34	0.03	1.03	1.03	0.52	0.19	112.19	122.17	9.98
STM10407	115.77	30	8.01	84	0.0370	3.10	11.66	0.63	0.00	4.74	0.00	0.35	0.12	0	0.00	0.76	0.98	0.49	3.60	120.13	124.70	4.57
STM54	116.70	15	15.12	127	0.0530	6.75	14.34	0.80	13.66	12.34	168.56	2.36	0.83	39.93	1.01	2.64	2.64	1.32	8.07	124.77	129.33	4.56
STM285	125.40	15	1.56	11	0.0010	0.01	3.19	0.05	0.00	1.46	0.00	0.03	0.01	0	0.00	0.06	0.08	0.04	0.05	125.45	129.50	4.05
STM284	124.77	18																				

Project Name: **West End Transitway - Cameron Run**
 Date: **7/8/2024**
 Linear Development Project? Yes

CLEAR ALL
 (Ctrl+Shift+R)

data input cells
 constant values
 calculation cells
 final results

Site Information

Post-Development Project (Treatment Volume and Loads)

Enter Total Disturbed Area (acres) → **0.71**

Maximum reduction required:	20%
The site's net increase in impervious cover (acres) is:	0.298324151
Post-Development TP Load Reduction for Site (lb/yr):	0.12

Pre-ReDevelopment Land Cover (acres)

	A Soils	B Soils	C Soils	D Soils	Totals
Forest (acres) -- undisturbed, protected forest or reforested land					0.00
Mixed Open (acres) -- undisturbed/infrequently maintained grass or shrub land					0.00
Managed Turf (acres) -- disturbed, graded for yards or other turf to be mowed/managed				0.50	0.50
Impervious Cover (acres)				0.21	0.21
					0.71

Post-Development Land Cover (acres)

	A Soils	B Soils	C Soils	D Soils	Totals
Forest/Open Space (acres) -- undisturbed, protected forest or reforested land					0.00
Mixed Open (acres) -- undisturbed/infrequently maintained grass or shrub land					0.00
Managed Turf (acres) -- disturbed, graded for yards or other turf to be mowed/managed				0.21	0.21
Impervious Cover (acres)				0.50	0.50
Area Check	OK.	OK.	OK.	OK.	0.71

Post-Development Requirement for Site Area

TP Load Reduction Required (lb/yr)	0.25
Linear Project TP Load Reduction Required (lb/yr):	0.12

Check:

BMP Design Specifications List: 2024 Stds & Specs

Linear project? Yes
 Land cover areas entered correctly?
 Total disturbed area entered?

Project Name: **West End Transitway - Four Mile Run**
 Date: **7/8/2024**
 Linear Development Project? Yes

CLEAR ALL
 (Ctrl+Shift+R)

data input cells
 constant values
 calculation cells
 final results

Site Information

Post-Development Project (Treatment Volume and Loads)

Enter Total Disturbed Area (acres) → **0.32**

Maximum reduction required:	20%
The site's net increase in impervious cover (acres) is:	0.176974288
Post-Development TP Load Reduction for Site (lb/yr):	0.06

Pre-ReDevelopment Land Cover (acres)

	A Soils	B Soils	C Soils	D Soils	Totals
Forest (acres) -- undisturbed, protected forest or reforested land					0.00
Mixed Open (acres) -- undisturbed/infrequently maintained grass or shrub land					0.00
Managed Turf (acres) -- disturbed, graded for yards or other turf to be mowed/managed				0.25	0.25
Impervious Cover (acres)				0.07	0.07
					0.32

Post-Development Land Cover (acres)

	A Soils	B Soils	C Soils	D Soils	Totals
Forest/Open Space (acres) -- undisturbed, protected forest or reforested land					0.00
Mixed Open (acres) -- undisturbed/infrequently maintained grass or shrub land					0.00
Managed Turf (acres) -- disturbed, graded for yards or other turf to be mowed/managed				0.07	0.07
Impervious Cover (acres)				0.25	0.25
Area Check	OK.	OK.	OK.	OK.	0.32

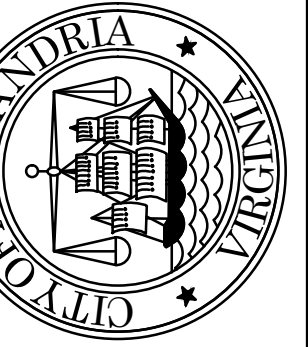
Post-Development Requirement for Site Area

TP Load Reduction Required (lb/yr)	0.13
Linear Project TP Load Reduction Required (lb/yr):	0.06

Check:

BMP Design Specifications List: 2024 Stds & Specs

Linear project? Yes
 Land cover areas entered correctly?
 Total disturbed area entered?



CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

REVISIONS
 BY DESCRIPTION
 DATE

ALEXANDRIA PROJECT NO.: 110104122
 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: DATE: _____
 DRAWN BY: DATE: _____
 CHECKED BY: DATE: _____
 APPROVED BY: DATE: _____

VRRM

SHEET
 D-1541

SCALE NTS

NOTE: THE DRAINAGE CALCULATIONS
 HAVE BEEN PROVIDED FOR REFERENCE
 ONLY. SEE THE DRAINAGE AND
 STORMWATER MANAGEMENT REPORT FOR
 ADDITIONAL DETAIL,

GENERAL CONSTRUCTION NOTES

- ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE DRAWINGS AND SPECIFICATIONS. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE STATE, LOCAL AND NATIONAL CODES, ORDINANCES AND OR REGULATIONS APPLICABLE TO THIS PROJECT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH WORK OF ALL TRADES AND SHALL CHECK ALL DIMENSIONS. ALL DISCREPANCIES SHALL BE CALLED TO THE ATTENTION OF THE PROJECT MANAGER AND/OR ENGINEER AND BE RESOLVED BEFORE PROCEEDING WITH WORK WHERE THERE IS A CONFLICT BETWEEN DRAWING AND SPECIFICATIONS.
- ALL INFORMATION SHOWN ON THE DRAWINGS RELATIVE TO EXISTING CONDITIONS IS GIVEN AS THE BEST PRESENT KNOWLEDGE, BUT WITHOUT GUARANTEE OF ACCURACY. WHERE ACTUAL CONDITIONS CONFLICT WITH THE DRAWINGS, THEY SHALL BE REPORTED TO THE PROJECT MANAGER AND/OR ENGINEER OF RECORD SO THAT PROPER REVISIONS MAY BE MADE. MODIFICATION OF DETAILS OR CONSTRUCTION SHALL NOT BE MADE WITHOUT WRITTEN APPROVAL OF THE PROJECT MANAGER AND/OR ENGINEER OF RECORD.
- CONTRACTOR SHALL REVIEW AND BE FAMILIAR WITH SITE CONDITIONS AS SHOWN ON THE ATTACHED SITE PLAN AND/OR SURVEY DRAWINGS.
- CONTRACTOR TO PROVIDE DUMPSTER AND PORTABLE TOILET FACILITY DURING CONSTRUCTION.
- CONSTRUCTION WASTE MAY NEITHER BE BURNED NOR BURIED AND MUST BE TAKEN TO AN APPROVED LANDFILL.
- SECURITY TO THE SITE SHALL BE MAINTAINED AT ALL TIMES.

GENERAL DESIGN NOTES

- THESE DESIGNS DETAILED HERIN HAVE BEEN DESIGNED IN ACCORDANCE WITH THE GOVERNING PROVISIONS OF ASCE 7, AWS, ACI, AND AISC. MATERIALS AND SERVICES PROVIDED BY THE CONTRACTOR SHALL CONFORM TO THE ABOVE MENTIONED CODES AND CONTRACT SPECIFICATIONS.
- ALL MATERIALS UTILIZED FOR THIS PROJECT MUST BE NEW AND FREE OF ANY DEFECTS.
- ALL PRODUCT OR MATERIAL SUBSTITUTIONS PROPOSED BY THE CONTRACTOR SHALL BE APPROVED IN WRITING BY THE CITY OF ALEXANDRIA AND ENGINEER OF RECORD. CONTRACTOR SHALL PROVIDE DOCUMENTATION TO ENGINEER SUITABLE TO DETERMINE IF THE SUBSTITUTE IS ACCEPTABLE FOR USE AND MEETS THE ORIGINAL DESIGN CRITERIA. DIFFERENCES FROM THE ORIGINAL DESIGN, INCLUDING; MAINTENANCE, REPAIR, AND REPLACEMENT, SHALL BE NOTED. ESTIMATES OF COSTS/CREDITS ASSOCIATED WITH THE SUBSTITUTION (INCLUDING RE-DESIGN COSTS AND COSTS TO SUB-CONTRACTORS) SHALL BE PROVIDED TO THE ENGINEER. CONTRACTOR SHALL PROVIDE ADDITIONAL DOCUMENTATION AND/OR SPECIFICATION TO THE ENGINEER AS REQUESTED.
- CONTRACTOR SHALL PROVIDE STRUCTURAL STEEL SHOP DRAWINGS(S) TO THE ENGINEER OF RECORD FOR APPROVAL PRIOR TO FABRICATION.
- UNLESS NOTED OTHERWISE, ALL NEW MEMBERS AND MATERIALS SHALL MAINTAIN THE EXISTING MEMBER WORK POINTS AND NOT INTRODUCE ECCENTRICITIES INTO THE STRUCTURE.
- ANY CONTRACTOR-CAUSED DAMAGE TO PROPERTY OF THE LAND OWNER, PROPERTY OF THE CUSTOMER, SITE FENCING OR GATES, ANY AND ALL UTILITY AND/OR SERVICE LINES, SHOWN OR NOT SHOWN ON THE PLANS SHALL BE REPAIRED OR REPLACED AT THE SOLE COST OF THE CONTRACTOR AND SHALL BE ADDRESSED BY THE CONTRACTOR WITH THE COMPANIES THAT OWN THE DAMAGED ITEMS.
- FOR ANY DISCREPANCIES FOUND WITHIN THESE DRAWINGS, REFER TO THE MASTER SPECIFICATION OF THIS PROJECT OR CONSULT WITH THE ENGINEER OF RECORD.

DESIGN CRITERIA

- APPLICABLE DESIGN CODES:
 - 2021 VIRGINIA UNIFORM STATEWIDE BUILDING CODE
 - 2021 INTERNATIONAL BUILDING CODE
 - ASCE 7-16
 - ACI 318-14
- DESIGN LOADING:
 - WIND LOADS:
 - RISK CATEGORY: II (COMMERCIAL USE)
 - ULTIMATE WIND SPEED (V_{ult}): 113 MPH
 - EXPOSURE CATEGORY: B
 - TOPOGRAPHIC CATEGORY: 1
 - VELOCITY PRESSURE: 20.6 PSF
 - SEISMIC LOADS:
 - RISK CATEGORY: II (I_e = 1.00)
 - SOIL SITE CLASS: D (REFER TO GEOTECH REPORT)
 - RESPONSE VALUE, S_s = 0.146 g
 - RESPONSE VALUE, S₁ = 0.045 g
 - RESPONSE VALUE, S_{ds} = 0.156 g
 - RESPONSE VALUE, S_{d1} = 0.072 g
 - SEISMIC DESIGN CATEGORY: B
 - DEAD LOADS:
 - ROOF DEAD LOAD: 20 PSF
 - REAR PANEL LOAD: 20 PSF
 - LIVE LOADING:
 - ROOF LIVE LOAD: 20 PSF
 - PEDESTRIAN WALL LOAD: 30 PSF
 - SNOW LOADING:
 - ROOF SNOW LOAD: 25 PSF
- FOUNDATION DESIGN CRITERIA:
 - STRUCTURE BASE DESIGN REACTIONS PER COLUMN (FACTORED):
 - MOMENT: 33.0 KIP-FT
 - SHEAR: 3.0 KIP
 - AXIAL: 10.5 KIP
 - GEOTECHNICAL PROPERTIES PER REPORT BY SCHNABEL ENGINEERING, REFERENCE #22230077.000, DATED FEBRUARY 9, 2024.

CONTRACTOR NOTES

- PRIOR TO BEGINNING CONSTRUCTION, ALL CONTRACTORS AND SUBCONTRACTORS MUST ACKNOWLEDGE IN WRITING TO THE CITY OF ALEXANDRIA THAT THEY HAVE OBTAINED, UNDERSTAND, AND WILL FOLLOW STANDARDS OF PRACTICE, CONSTRUCTION GUIDELINES, ALL SITE AND STRUCTURE SAFETY PROCEDURES, ALL PRODUCT LIMITATIONS AND INSTALLATION PROCEDURES USED ON SITE, AND PROPOSED MODIFICATION DESCRIBED RECEIPT OF ACKNOWLEDGEMENT MUST OCCUR PRIOR TO BEGINNING CONSTRUCTION OF CLIMBING. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO PROVIDE THE DOCUMENTATION FOR STRUCTURE OWNER ON COMPANY LETTERHEAD AND THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO OBTAIN THIS DOCUMENTATION FROM ANY SUBCONTRACTORS (ON SUBCONTRACTOR LETTERHEAD) AND DELIVER IT TO THE STRUCTURE OWNER.
- IF THE CONTRACTOR DISCOVERS ANY EXISTING CONDITIONS THAT ARE NOT REPRESENTED ON THESE DRAWINGS, OR ANY CONDITIONS THAT WOULD INTERFERE WITH THE INSTALLATION OF THE MODIFICATIONS, THE ENGINEER OF RECORD SHALL BE CONTACTED IMMEDIATELY TO EVALUATE THE SIGNIFICANCE OF THE DEVIATION.
- THE CONTRACTOR SHALL SOLICIT AND HIRE THE SERVICES OF A QUALIFIED SPECIAL INSPECTOR PRIOR TO BEGINNING CONSTRUCTION, THE SPECIAL INSPECTOR MAY BE AN EMPLOYEE OF THE CONTRACTORS FIRM; HOWEVER, THE INSPECTOR'S ONLY DUTIES SHALL BE INSPECTION, TESTING, AND REPORT CREATION AS REQUIRED BY THE CITY OF ALEXANDRIA. IT IS ALSO ACCEPTABLE FOR THE CONTRACTOR TO SUBCONTRACT THE SPECIAL INSPECTOR DUTIES TO A THIRD PARTY FIRM MEETING THE ABOVE REQUIREMENTS. THIRD PARTY INSPECTORS MUST BE APPROVED BY THE CITY OF ALEXANDRIA.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD AND THE CITY OF ALEXANDRIA OF THE PLANNED CONSTRUCTION & INSPECTION SCHEDULE, AS WELL AS ANY CHANGES TO THE SCHEDULE, WITHIN TWO BUSINESS DAYS OF COMPLETION OF THE SCHEDULE REVISION BOTH PRIOR TO BEGINNING CONSTRUCTION AND DURING CONSTRUCTION AS THE SCHEDULE CHANGES. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD WHEN PHASES OF CONSTRUCTION HAVE BEEN MOVED UP AND SHALL GIVE THE ENGINEER ADEQUATE NOTICE SO THE ENGINEER OF RECORD MAY, AT THEIR DISCRETION, INSPECT PORTIONS OF THE WORK DEEMED CRITICAL TO THE INTEGRITY OF THE STRUCTURE. FAILURE TO PROVIDE THIS NOTICE MAY RESULT IN REJECTION OF THE CONTRACTOR'S WORK. THE CONTRACTOR SHALL ALSO NOTIFY THE ENGINEER OF RECORD AND THE CITY OF ALEXANDRIA WHEN THE WORK HAS BEEN COMPLETED WITHIN 2 BUSINESS DAYS OF THE COMPLETION OF THE WORK AND ASSOCIATED INSTALLATION INSPECTIONS & TESTING.
- IT IS ASSUMED THAT ANY STRUCTURAL DESIGN WORK SPECIFIED IN THESE PLANS WILL BE ACCOMPLISHED BY KNOWLEDGEABLE WORKMEN WITH RELEVANT CONSTRUCTION EXPERIENCE. THIS INCLUDES PROVIDING THE NECESSARY CERTIFICATIONS TO THE STRUCTURE OWNER AND ENGINEER INCLUDING BUT NOT LIMITED TO QUALIFIED WELDER CERTIFICATES, CERTIFIED WELDING INSPECTOR CREDENTIALS, ET CETERA.
- THESE DRAWINGS DO NOT INDICATE THE METHOD OF CONSTRUCTION, THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION METHODS, MEANS, TECHNIQUES, SEQUENCES AND PROCEDURES.
- CONTRACTOR SHALL WORK WITHIN THE LIMITS OF THE CITY OF ALEXANDRIA'S PROPERTY OF LEASE AREA AND APPROVED EASEMENT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY WORK IS WITHIN THESE BOUNDARIES. CONTRACTOR SHALL EMPLOY A SURVEYOR AS REQUIRED. ANY WORK OUTSIDE THESE BOUNDARIES SHALL BE APPROVED IN WRITING BY THE LAND OWNER PRIOR TO MOBILIZATION. CONSTRUCTION STAKING AND BOUNDARY MARKING IS THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL ENSURE THAT OVERHEAD UTILITIES WILL NOT INTERFERE WITH THE PROPOSED CONSTRUCTION AS SPECIFIED.
- DO NOT SCALE DRAWINGS. CONTRACTOR SHALL VERIFY ALL PLANS, EXISTING DIMENSIONS, CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE ARCHITECT OR ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR THE SAME.

STRUCTURAL STEEL NOTES

- STRUCTURAL STEEL SHALL COMPLY WITH THE FOLLOWING MATERIAL SPECIFICATIONS (UNLESS NOTED OTHERWISE - U.N.O.):
 - STRUCTURAL STEEL SHAPES:
 - WIDE FLANGE SHAPES: ASTM A992 (F_y=50 KSI)
 - ALL OTHERS: ASTM A36 (F_y=36 KSI)
 - PIPES: ASTM A53, GRADE B (F_y=35 KSI)
 - HSS-SHAPES: ASTM A500, GRADE C (ROUND - F_y=50 KSI) (RECTANGULAR - F_y=50 KSI)
 - ANCHOR & ALL THREAD RODS: ASTM F1554 GR 105 (F_y=105 KSI)
 - STRUCTURAL BOLTS 1/2" AND LARGER: ASTM F3125 GR A325
 - STRUCTURAL BOLTS SMALLER THAN 1/2":
 - DIMENSIONS: ASME B18.2.1
 - MATERIAL: SAE J429 GRADE 5
 - THREADING: ASME B1.1, UNC, CLASS 2A
 - FINISH: H.D.G. OR ZINC-PLATED
 - NUTS FOR BOLTS/ALL-THREAD: ASTM A563 (THREADING TO MATCH BOLT)
 - WASHERS FOR BOLTS/ALL THREADS: ASTM F436
- ALL STRUCTURAL STEEL MEMBERS SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM A123.
- STRUCTURAL BOLTS SHALL CONFORM TO THIS NOTE. ALL BOLT HOLES SHALL BE STANDARD SIZE BOLT HOLES PER AISC 360, UNLESS NOTED OTHERWISE. ALL HOLES SHALL BE SHOP DRILLED OR SUB-PUNCHED AND REAMED. BURNING OF HOLES IS NOT PERMITTED, WHERE SLOTTED OR OVERSIZE HOLES ARE SPECIFIED ON THE DRAWINGS, EXTRA-THICK ASTM F436 PLATE WASHERS SHALL BE USED (3/8" MINIMUM THICKNESS) WITH A DIAMETER SUITABLE TO COVER THE EXTENTS OF THE SLOT OF HOLE. BOLTS SHALL BE HEAVY-HEX WHERE AVAILABLE IN THE SIZE AND GRADE SPECIFIED. ALL BOLT ASSEMBLIES SHALL BE TIGHTENED PER AISC "TURN-OFF-THE-NUT" METHOD. SEE BOLT TIGHTENING PROCEDURE.
- ALL STEEL HARDWARE, INCLUDING ADHESIVE OR EMBEDDED ANCHOR BOLTS AND THEIR ACCESSORIES, SHALL BE HOT-DIP GALVANIZED IN ACCORDANCE WITH ASTM A153 (EXCEPT A490 SPECIFICATIONS WHICH SHALL CONFORM TO ASTM F2833, AND BOLTS SMALLER THAN 1/2" WHICH SHALL CONFORM TO FE/ZN 3 AS PER ASTM F1941, AND HOT-DIP GALVANIZED IN ACCORDANCE WITH ASTM A123). REPAIR ALL DAMAGE DUE TO TRANSPORTATION, CUTTING, OR WELDING WITH GALVANIZED COATINGS USING ASTM A780 PROCEDURES WITH ZINC RICH PAINT (SUCH AS ZRC GALVILITE). CALL OUT HOLES REQUIRED FOR HOT-DIP GALVANIZING ON SHOP DRAWINGS.
- WELDING SHALL BE IN ACCORDANCE WITH AWS D1.1 "STRUCTURAL WELDING CODE - STEEL". UNLESS NOTED OTHERWISE, WELD ELECTRODES SHALL BE 70 KSI. UNLESS NOTED OTHERWISE, PROVIDE CONTINUOUS FILLET WELDS WITH MINIMUM SIZE OF 3/16" OR OF A SIZE EQUAL TO THE THICKNESS OF THE THINNER MATERIAL. WELD LEG SIZE SHALL BE ADJUSTED AS REQUIRED TO MAINTAIN THE EFFECTIVE THROAT OF A 3/16" FILLET WELD IN A 90° JOINT. ALL WELD SIZES SHOWN IN INCHES.
- PRIOR TO WELDING, THE CONTRACTOR SHALL SUBMIT CERTIFICATION FOR EACH WELDER STATING THE TYPE OF WELDING AND POSITIONS QUALIFIED FOR, THE CODE AND PROCEDURE QUALIFIED UNDER, STATE QUALIFIED, AND THE FIRM AND INDIVIDUAL CERTIFYING THE QUALIFICATION TESTS. THIS INFORMATION SHALL BE SUBMITTED TO THE SPECIAL INSPECTOR AS WELL AS ANY THIRD-PARTY CERTIFIED WELD INSPECTOR (CWI).
- ALL PROPOSED PARTS AND MEMBERS SHALL BE SHOP-FABRICATED AND WELDED TO THE EXTENT PRACTICABLE IN ORDER TO REDUCE FIELD INSTALLATION COSTS.

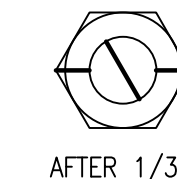
BOLT TIGHTENING PROCEDURE

- TIGHTEN BOLTS PER AISC - "TURN OF THE NUT" METHOD, USING THE CHART BELOW:

BOLT LENGTHS UP TO & INCLUDING 4"	
1/2" BOLTS UP TO & INCLUDING 2" LENGTH	+1/3 TURN BEYOND SNUG TIGHT
3/8" BOLTS UP TO & INCLUDING 2 1/2" LENGTH	+1/3 TURN BEYOND SNUG TIGHT
3/4" BOLTS UP TO & INCLUDING 3" LENGTH	+1/3 TURN BEYOND SNUG TIGHT
7/8" BOLTS UP TO & INCLUDING 3 1/2" LENGTH	+1/3 TURN BEYOND SNUG TIGHT
1" BOLTS UP TO & INCLUDING 4" LENGTH	+1/3 TURN BEYOND SNUG TIGHT
1 1/8" BOLTS UP TO & INCLUDING 4 1/2" LENGTH	+1/3 TURN BEYOND SNUG TIGHT
1 1/4" BOLTS UP TO & INCLUDING 5" LENGTH	+1/3 TURN BEYOND SNUG TIGHT
1 1/2" BOLTS UP TO & INCLUDING 6" LENGTH	+1/3 TURN BEYOND SNUG TIGHT



BEFORE 1/3 TURN



AFTER 1/3 TURN

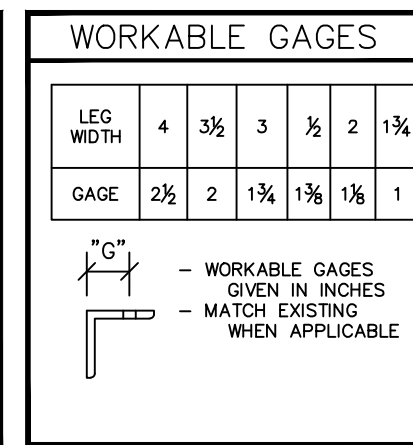
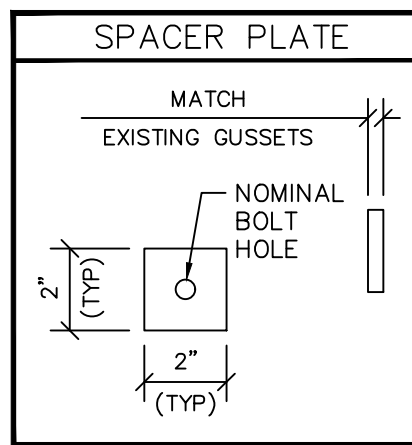
BOLT LENGTH OVER 4" BUT NOT EXCEEDING 8"	
3/4" BOLTS 4.25" TO 6.0" LENGTH	+1/2 TURN BEYOND SNUG TIGHT
7/8" BOLTS 3.75" TO 7.0" LENGTH	+1/2 TURN BEYOND SNUG TIGHT
1" BOLTS 4.25" TO 8.0" LENGTH	+1/2 TURN BEYOND SNUG TIGHT
1 1/8" BOLTS 4.75" TO 9.0" LENGTH	+1/2 TURN BEYOND SNUG TIGHT
1 1/4" BOLTS 5.25" TO 10.0" LENGTH	+1/2 TURN BEYOND SNUG TIGHT
1 1/2" BOLTS 6.25" TO 12.0" LENGTH	+1/2 TURN BEYOND SNUG TIGHT

- SPlice BOLTS SUBJECT TO DIRECT TENSION SHALL BE INSTALLED AND TIGHTENED AS PER SECTION 8(d)(1) OF THE AISC MANUAL OF STEEL CONSTRUCTION. THE INSTALLATION PROCEDURE IS PARAPHRASED AS FOLLOWS:

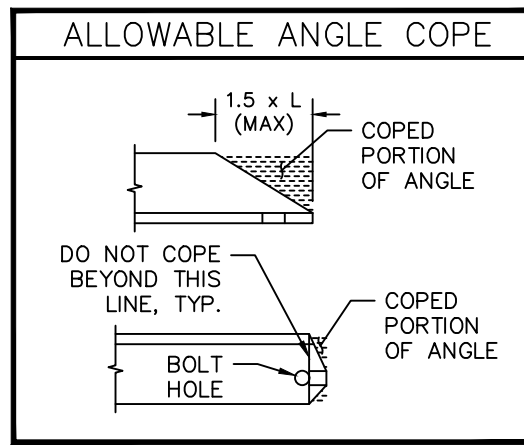
"FASTENERS SHALL BE INSTALLED IN PROPERLY ALIGNED HOLES AND BE TIGHTENED BY ONE OF THE METHODS DESCRIBED IN SUBSECTION 8(d)(1) THROUGH 8(d)(4).

8(d)(1) TURN-OFF-THE-NUT TIGHTENING

BOLTS SHALL BE INSTALLED IN ALL HOLES OF THE CONNECTION AND BROUGHT TO A SNUG TIGHT CONDITION. SNUG TIGHT IS DEFINED AS THE TIGHTNESS THAT EXISTS WHEN THE PLIES OF A JOINT ARE IN FIRM CONTACT. THIS MAY BE OBTAINED BY A FEW IMPACTS OF AN IMPACT WRENCH OR THE FULL EFFORT OF A MAN USING AN ORDINARY SPUD WRENCH. SNUG TIGHTENING SHALL PROGRESS SYSTEMATICALLY UNTIL ALL THE BOLTS ARE SIMULTANEOUSLY SNUG TIGHT AND THE CONNECTION IS FULLY COMPACTED. FOLLOW THIS INITIAL OPERATION ALL BOLTS IN THE CONNECTION SHALL BE TIGHTENED FURTHER BY THE APPLICABLE AMOUNT OF ROTATION OF THE PART NOT TURNED BY THE WRENCH. TIGHTENING SHALL PROGRESS SYSTEMATICALLY.



BOLT Ø	STANDARD HOLE Ø	SHORT SLOT
1/2"	9/16"	3/4" x 1/4"
5/8"	11/16"	7/8" x 3/8"
3/4"	13/16"	1" x 1/2"
7/8"	15/16"	1 1/8" x 1/2"
1"	1 1/16"	1 1/2" x 1/2"
1 1/8"	1 1/4"	1 7/8" x 1/2"
1 1/4"	1 5/8"	1 3/4" x 1/2"



BOLT Ø	EDGE DISTANCE	SPACING
1/2"	3/8"	1 1/2"
5/8"	1/2"	1 3/4"
3/4"	5/8"	2"
7/8"	3/4"	2 1/4"
1"	1 1/8"	3"

FOUNDATION NOTES

- CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,500 PSI
 - MIX DESIGN TO BE IN ACCORDANCE WITH ACI 318, CHAPTER 26
 - MAXIMUM WATER-TO-CEMENT RATIO: 0.40
 - COARSE AGGREGATE FOR NORMAL WEIGHT CONCRETE SHALL CONFORM TO ASTM C33 SIZE #57
 - COLD WEATHER PLACEMENT SHALL COMPLY WITH ACI 306.1
 - HOT WEATHER PLACEMENT SHALL COMPLY WITH ACI 305 R
- REBAR SPECIFICATIONS:
 - GRADE SHALL CONFORM TO ASTM SPECIFICATION A615
 - REBAR DETAILING SHALL BE IN ACCORDANCE WITH REFERENCED REVISION OF THE ACI DETAILING MANUAL AND CRSI MANUAL OF STANDARD PRACTICE.
 - LAP SPLICE LENGTHS AND HOOKS SHALL CONFORM TO ACI REQUIREMENTS UNLESS NOTED OTHERWISE.
 - BARs SHALL BE FIELD TIED. WELDING IS NOT PERMITTED.
 - ALL REBAR SHALL MAINTAIN 3" MINIMUM COVER TO EARTH, UNLESS NOTED OTHERWISE.
- ALL EXPOSED CONCRETE CORNERS SHALL BE CHAMFERED 1"
- CONTRACTOR SHALL VERIFY THAT THE PROPOSED FOUNDATION CAN BE BUILT AS SHOWN. CONTRACTOR SHALL OBTAIN WRITTEN EOR APPROVAL FOR ANY CHANGES TO THE PROPOSED DESIGN.
- ALL CONCRETE MATERIALS, PLACEMENT AND HANDLING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ACI 318 AND ACI 301.
- CONTRACTOR SHALL RETAIN SERVICES OF A LICENSED GEOTECHNICAL ENGINEER PRIOR TO COMMENCING ANY WORK TO DETERMINE RECOMMENDATIONS FOR SITE PREPARATION AND/OR REHABILITATION NECESSARY TO MEET MINIMUM DESIGN REQUIREMENTS LISTED BELOW. ANY DISCREPANCY BETWEEN FOUNDATION DESIGN DESCRIBED HEREIN AND GEOTECHNICAL RECOMMENDATIONS SHALL BE DESCRIBED TO EOR IN WRITTEN COMMUNICATION.
- SPECIAL INSPECTIONS SHALL BE PERFORMED IN ACCORDANCE WITH IBC SECTION 1705.3.
- SUBMITTALS TO BE DELIVERED TO THE ENGINEER OF RECORD FOR REVIEW:
 - DETAILED SHOP DRAWINGS OF REINFORCING BARS SHOWING NUMBER, SIZE, LOCATION, BAR LISTS AND BEND DIAGRAMS.
 - MIX DESIGNS FOR EACH TYPE OF CONCRETE SPECIFIED SHALL BE SUBMITTED FOR APPROVAL.
 - PRODUCT DATA AND MATERIAL CERTIFICATES.
- CONCRETE SHALL BE PLACED WITHIN 90 MINUTES OF BATCH TIME.
- ALL CONCRETE SHALL BE CONSOLIDATED IN PLACE USING INTERNAL VIBRATORS.
- CAST-IN-PLACE CONCRETE SHALL BE CONTINUOUSLY CURED FOR 7 DAYS FOLLOWING INITIAL SET.
- CONCRETE SHALL BE CURED IMMEDIATELY AFTER FINISHING OPERATIONS IN ACCORDANCE WITH ONE OF THE FOLLOWING METHODS:
 - APPLY A LIQUID MEMBRANE FORMING CHEMICAL CURING COMPOUND IN ACCORDANCE WITH ASTM C309.
 - WET CURE IN ACCORDANCE WITH ACI 301.
- SUPPORT REINFORCEMENT IN ITS PROPER LOCATION FROM THE FORMWORK DURING CONCRETE OPERATION.
- FORM TIES AND REINFORCING BAR SUPPORTS SHALL BE OF NON-CORROSIVE MATERIAL INCLUDING, BUT NOT LIMITED TO, FIBERGLASS, PLASTIC, AND/OR CONCRETE BLOCK.
- CONTRACTOR IS RESPONSIBLE FOR THE PROPER DESIGN AND CONSTRUCTION OF ALL FORMWORK AND SHORING. DESIGN SHALL BE PERFORMED BY A LICENSED PROFESSIONAL ENGINEER IN THE COMMONWEALTH OF VIRGINIA.

ABBREVIATION LIST

A/E	ARCHITECT/ENGINEER	KIP	THOUSAND POUNDS
AB	ANCHOR BOLT	KLF	KIPS PER LINEAR FOOT
ACC	ACCESSIBLE	KSF	KIPS PER SQUARE FOOT
ADD'L	ADDITIONAL	KSI	KIPS PER SQUARE INCH
ADJ	ADJACENT	KWY	KEY
AGGR	AGGREGATE	L	ANGLE
ALLOW	ALLOWANCE	LBS	POUNDS
ALT	ALTERNATE	LL	LIVE LOAD
APPROX	APPROXIMATE	LLH	LONG LEG HORIZONTAL
ARCH	ARCHITECT; ARCHITECTURAL	LLV	LONG LEG VERTICAL
		LONG	LONGITUDINAL
BLDG	BUILDING	MATL	MATERIAL
BO	BO OF	MECH	MECHANICAL
BOT	BOTTOM	MAX	MAXIMUM
BRG	BEARING	MIN	MINIMUM
		MISC	MISCELLANEOUS
CD	CONSTRUCTION DOCUMENTS	NA	NOT APPLICABLE
CL	CENTER LINE	NOM	NOMINAL
COL	COLUMN	NTS	NOT TO SCALE
CONC	CONCRETE		
CONSTR	CONSTRUCTION		
CONT	CONTINUE; CONTINUOUS		
COV	COVER	OC	ON CENTER
		OD	OUTSIDE DIAMETER (DIM)
DEFL	DEFLECTION	PERP	PERPENDICULAR
DET	DETAIL	PRELIM	PRELIMINARY
DEG	DEGREE	PSF	POUNDS PER SQUARE FT
DIA	DIAMETER	PSI	POUNDS PER SQUARE IN
DIAG	DIAGONAL		
DIM	DIMENSION	RAD	RADIUS
DIST	DISTANCE	REBAR	REINFORCING STEEL BARS
DL	DEAD LOAD	REF	REFERENCE
DP	DRILLED PIER	REINF	REINFORCEMENT
DWG	DRAWING	REQD	REQUIRED
		REV	REVISION
		RFI	REQUEST FOR INFORMATION
E	EAST	S	SOUTH
EA	EACH	SCHED	SCHEDULE
ELEV	ELEVATOR	SL	SNOW LOAD
ENGR	ENGINEER	SPEC	SPECIFICATION
EMBED	EMBEDMENT	SOB	SLAB-ON-GRADE
EOR	ENGINEER OF RECORD	STD	STANDARD
EQ	EQUAL	STL	STEEL
EQUIP	EQUIPMENT	STRUCT	STRUCTURAL
EXIST	EXISTING		
EXT	EXTERIOR	THRU	THROUGH
		TO	TOP OF
FDN	FOUNDATION	TOS	TOP OF SLAB
FLR	FLOOR	TRANS	TRANSVERSE
FT	FEET; FOOT	TP	TYPICAL
FTG	FOOTING	UNO	UNLESS NOTED OTHERWISE
FV	FIELD VERIFY		
		V	SHEAR
GALV	GALVANIZED	VAR	VARIES
GC	GENERAL CONTRACTOR	VERT	VERTICAL
GEN	GENERAL	VF	VERIFY IN FIELD
GRND LVL	GROUND LEVEL		
		W	WEST
HDG	HOT-DIPPED GALVANIZED	WF	WEST FLANGE
HORIZ	HORIZONTAL	WL	WIND LOAD
HT	HEIGHT		
ID	INSIDE DIAMETER (DIMENSION)		
IN	INCH		
INFO	INFORMATION		
INSTL	INSTALL		
INT	INTERIOR		
JST	JOIST		
JT	JOINT		

90% DESIGN PHASE



CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

REVISIONS
BY
DATE

ALEXANDRIA PROJECT NO.: 110104122
DATE OF PLAN ISSUANCE: N/A
CONSULTANT PROJECT ID: N/A
DESIGNED BY: RD DATE: 4/5/24
DRAWN BY: SB DATE: 4/5/24
CHECKED BY: RD DATE: 4/5/24
APPROVED BY: _____ DATE: _____

WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

STRUCTURAL GENERAL NOTES

SHEET
S-1601

SCALE 1" = 10'



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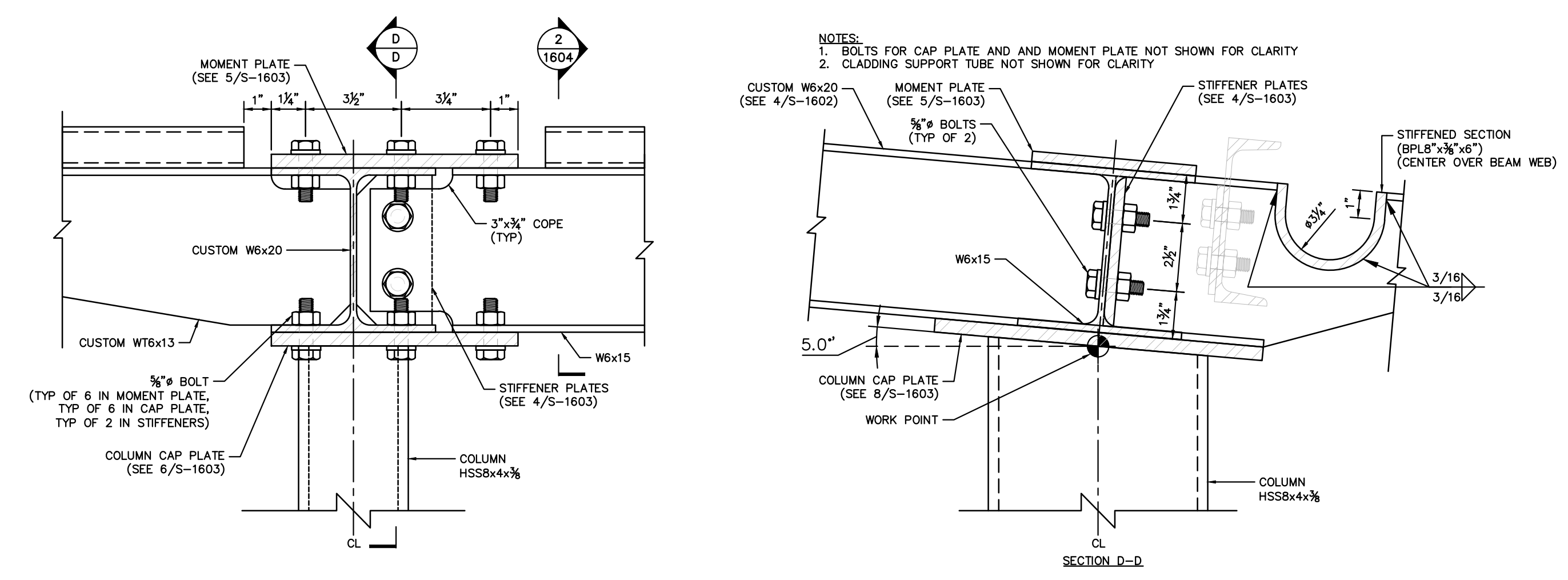
WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

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DATE	

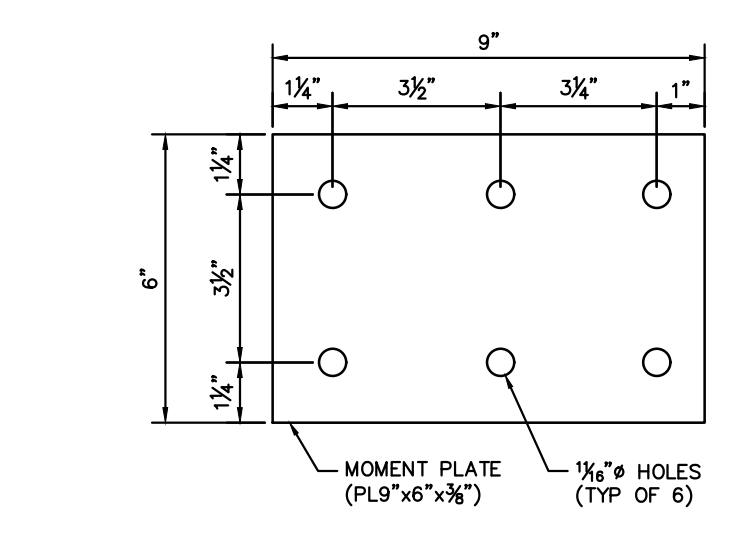
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 APPROVED BY: DATE:

SHELTER DETAILS

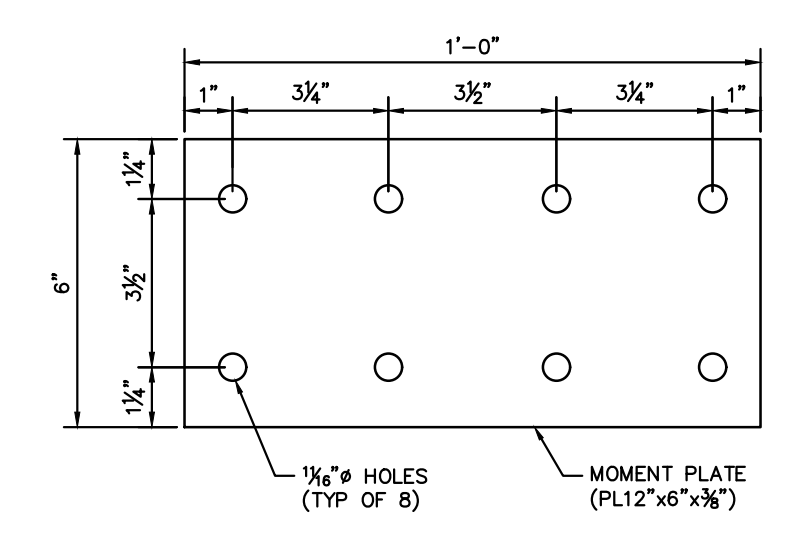
SHEET
 S-1603
 SCALE 1" = 10'



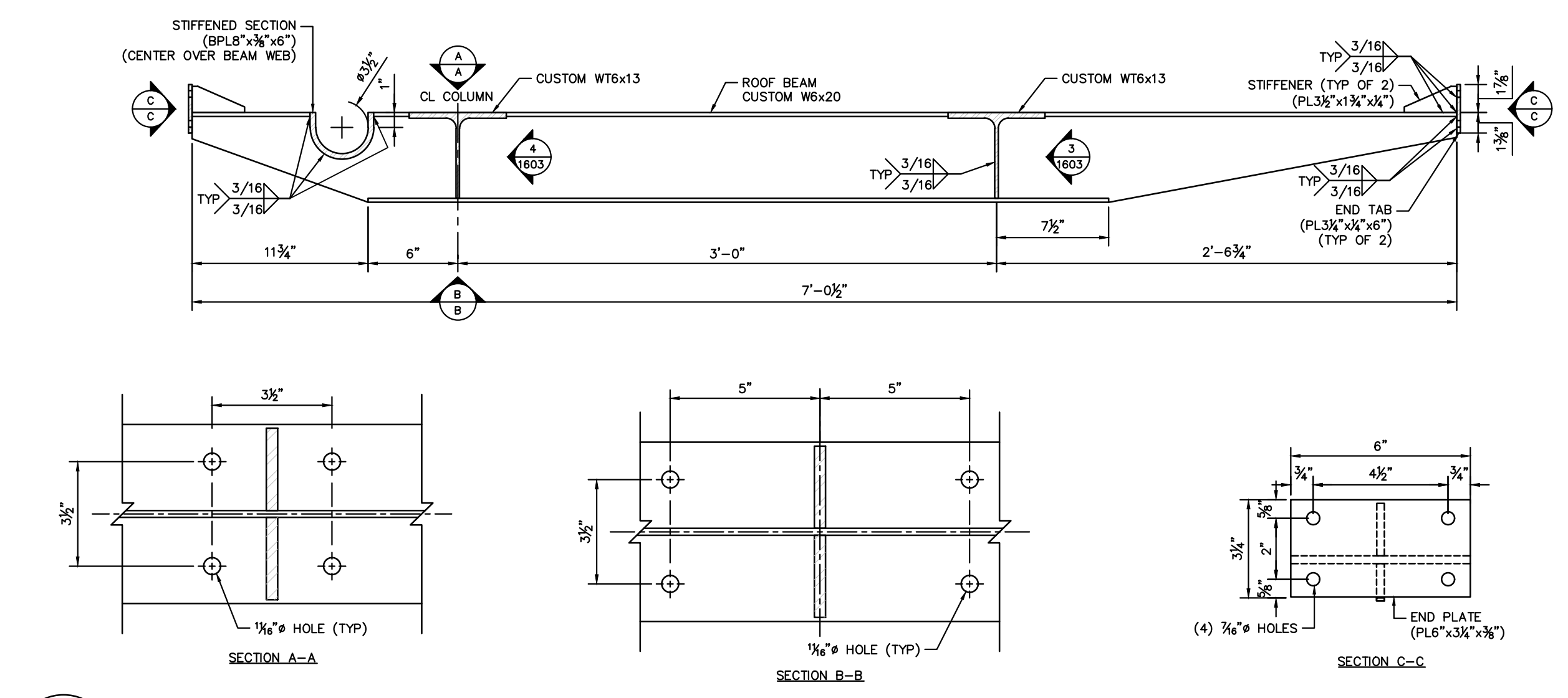
1 CUSTOM ROOF BEAM TO COLUMN - OUTER COLUMN
 S-1603 SCALE: NTS



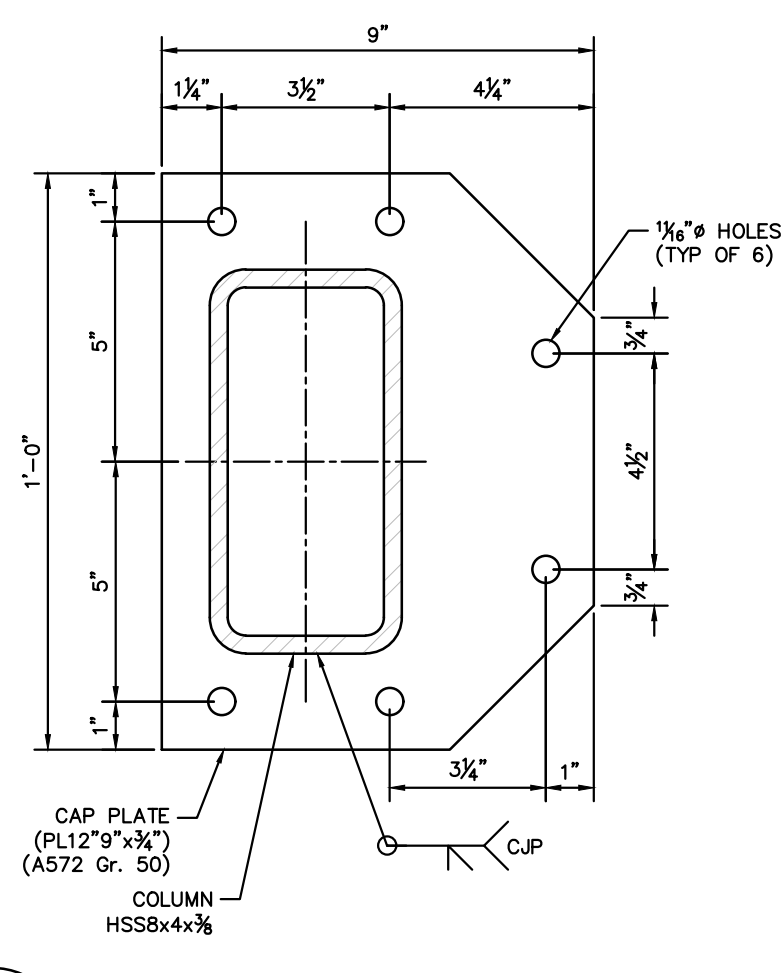
5 MOMENT PLATE - OUTER COLUMN
 S-1603 SCALE: NTS



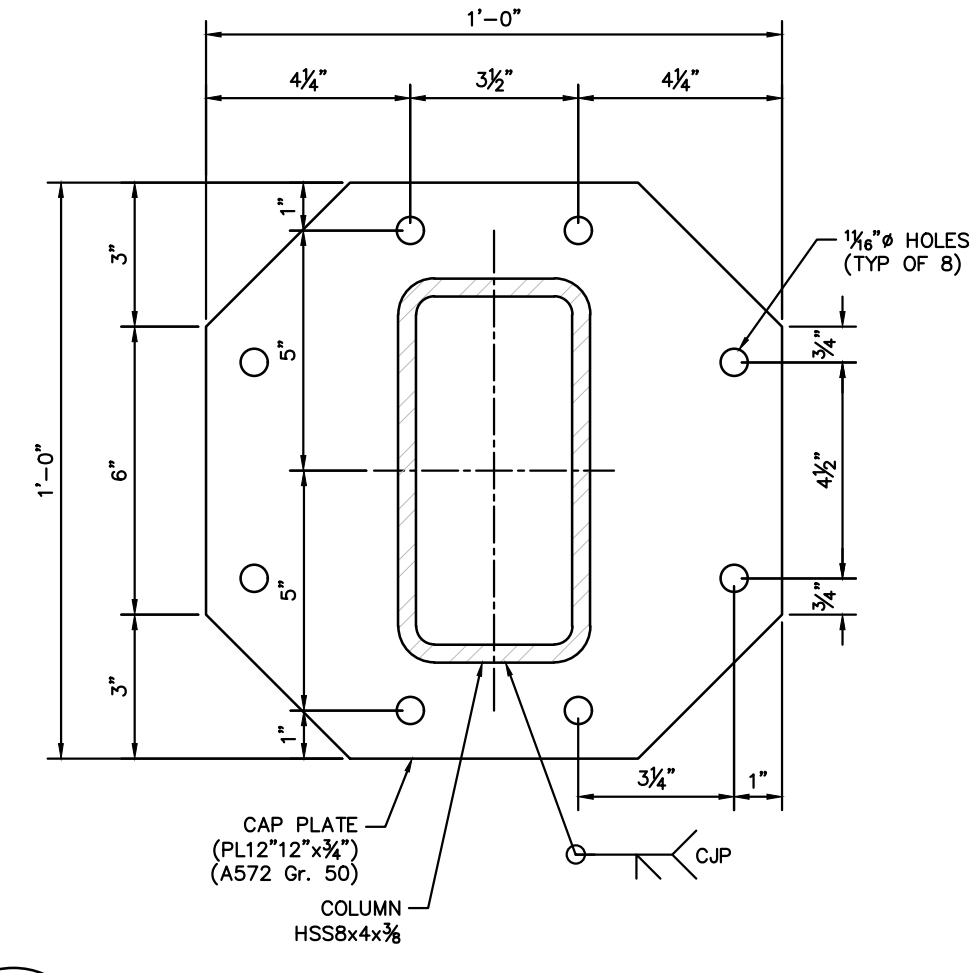
7 MOMENT PLATE - INNER COLUMN
 S-1603 SCALE: NTS



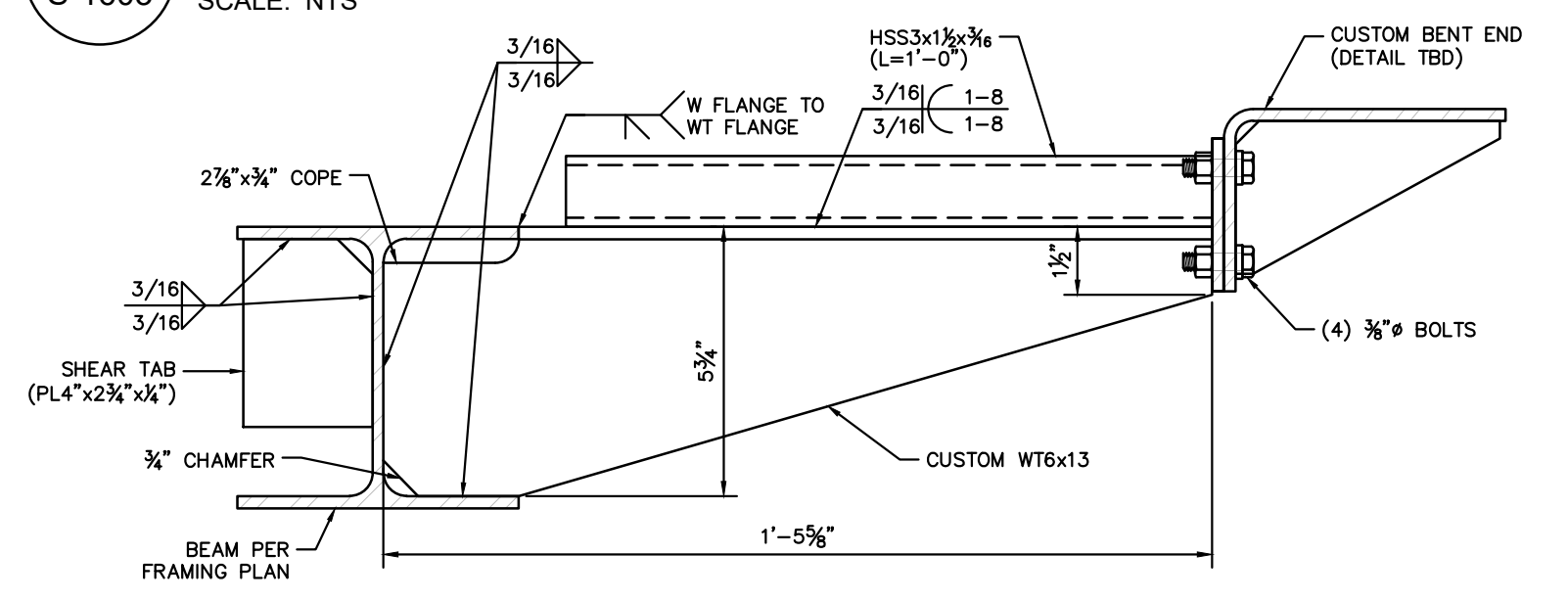
2 ALTERNATIVE 1 - CUSTOM ROOF BEAM ASSEMBLY - OUTER COLUMN
 S-1603 SCALE: NTS



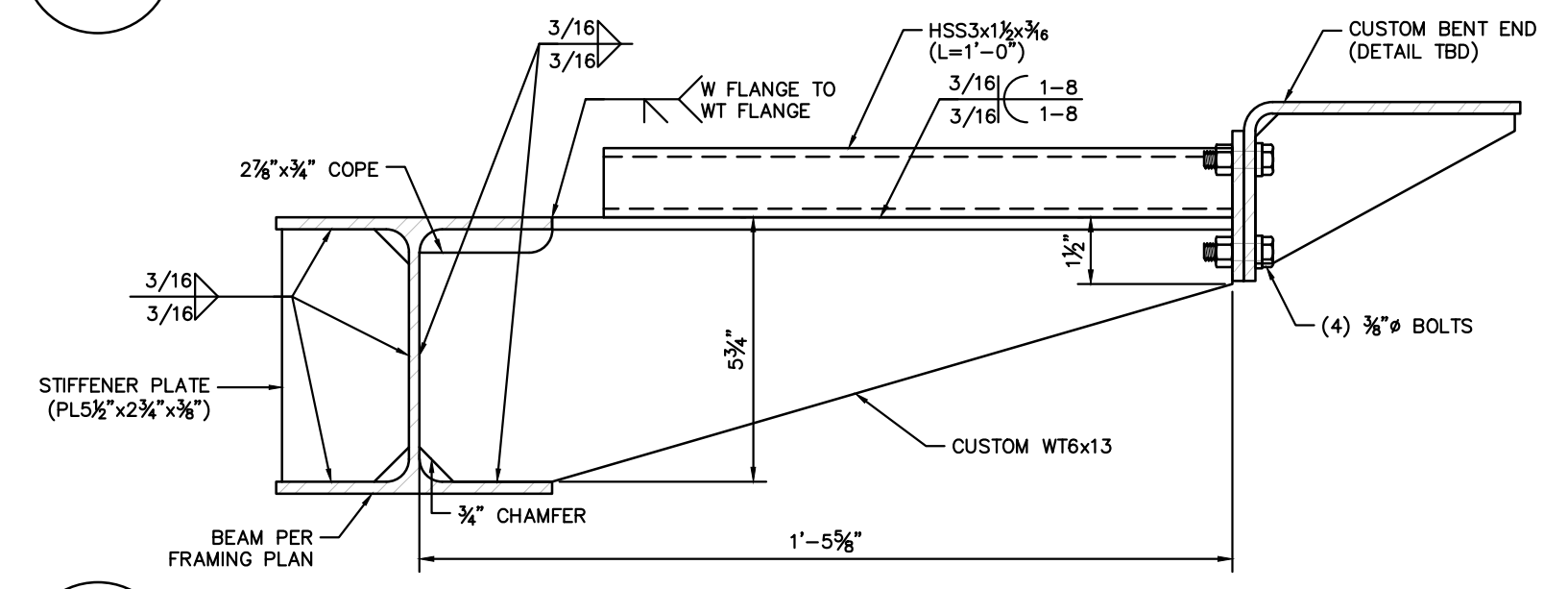
6 COLUMN CAP PLATE - OUTER COLUMN
 S-1603 SCALE: NTS



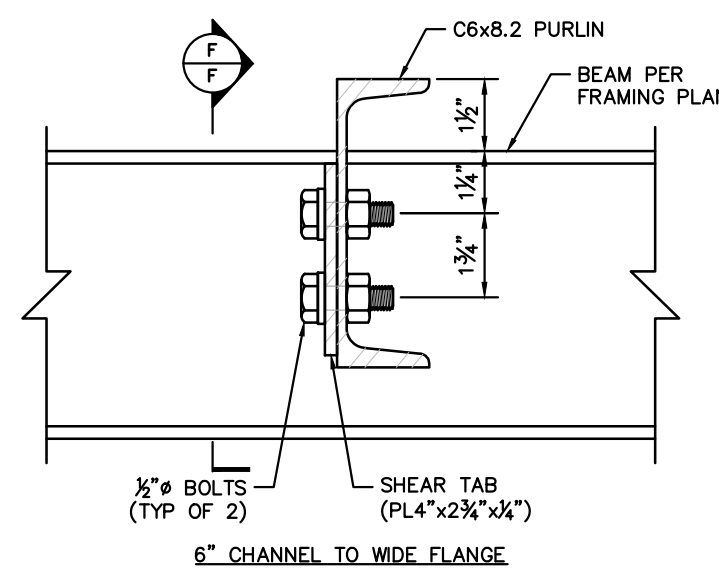
8 COLUMN CAP PLATE - INNER COLUMN
 S-1603 SCALE: NTS



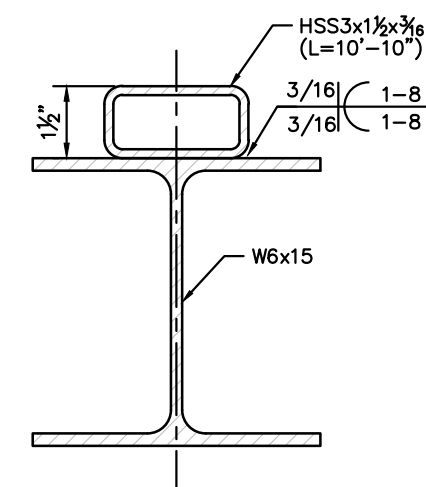
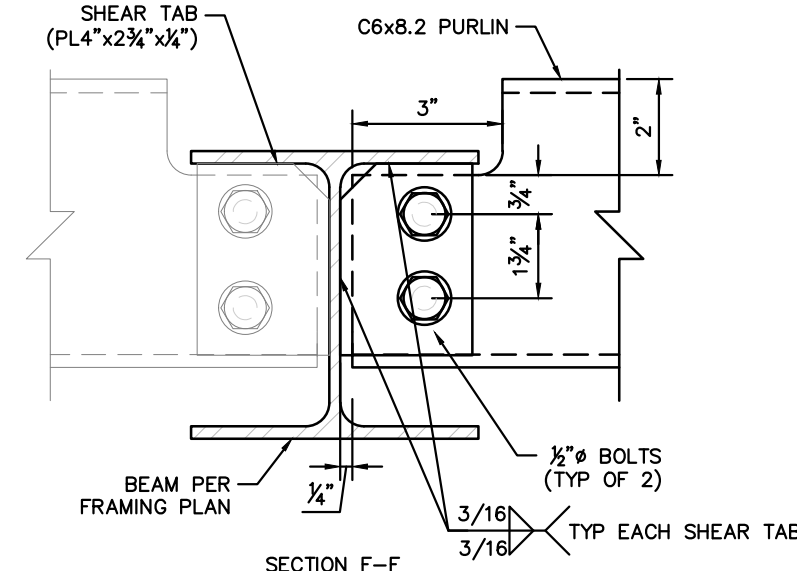
3 CUSTOM WT FRAMING CONNECTION
 S-1603 SCALE: NTS



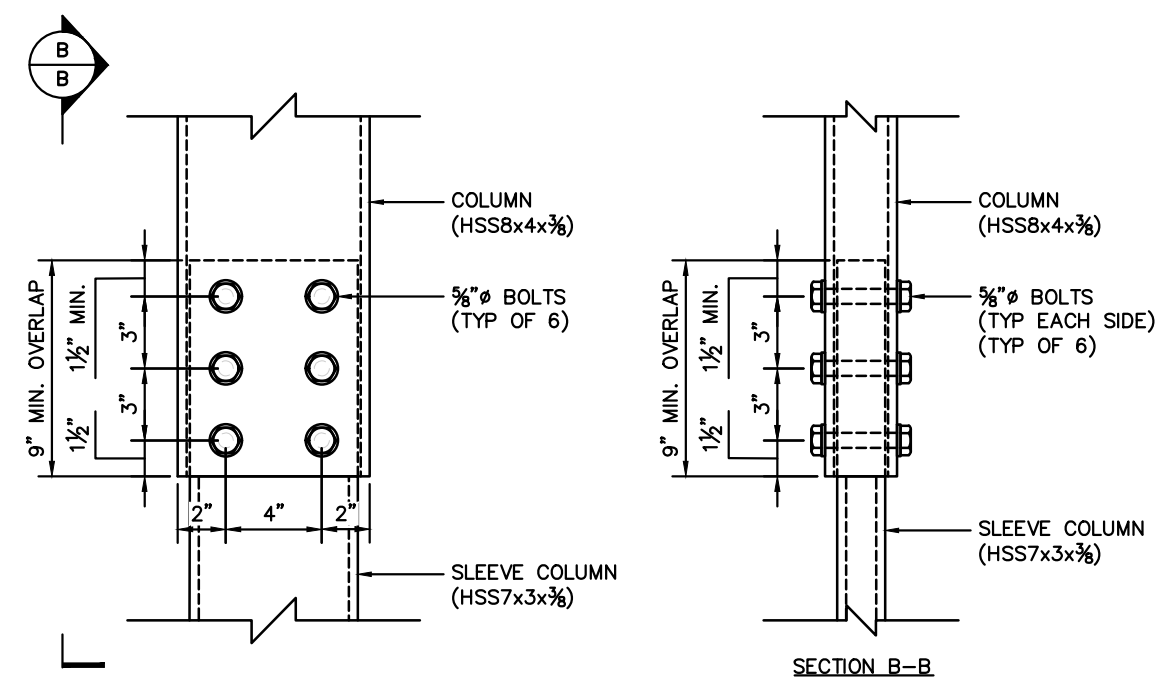
4 CUSTOM WT FRAMING CONNECTION (W/ STIFFENER)
 S-1603 SCALE: NTS



1 CHANNEL TO WIDE FLANGE CONNECTION
S-1604 SCALE: NTS



2 CLADDING SUPPORT TUBE CONNECTION
S-1604 SCALE: NTS

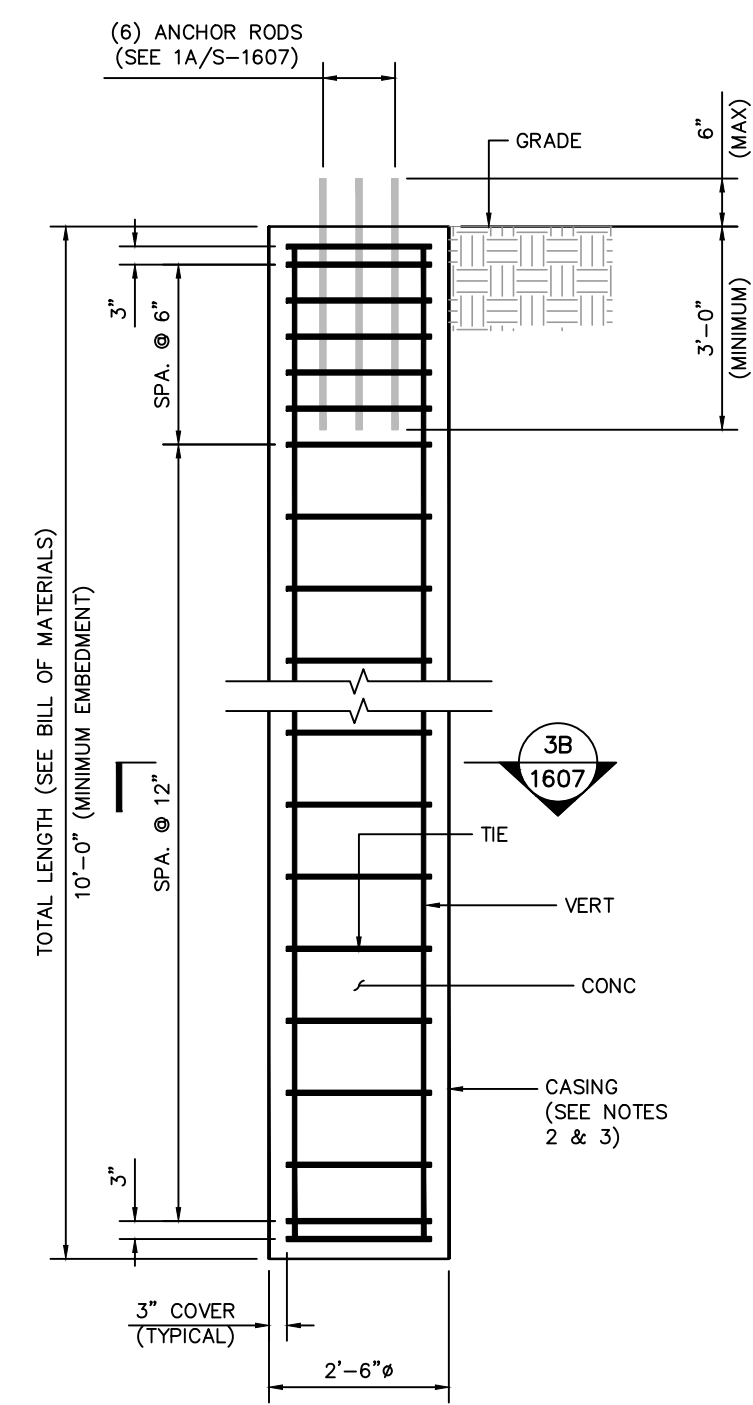
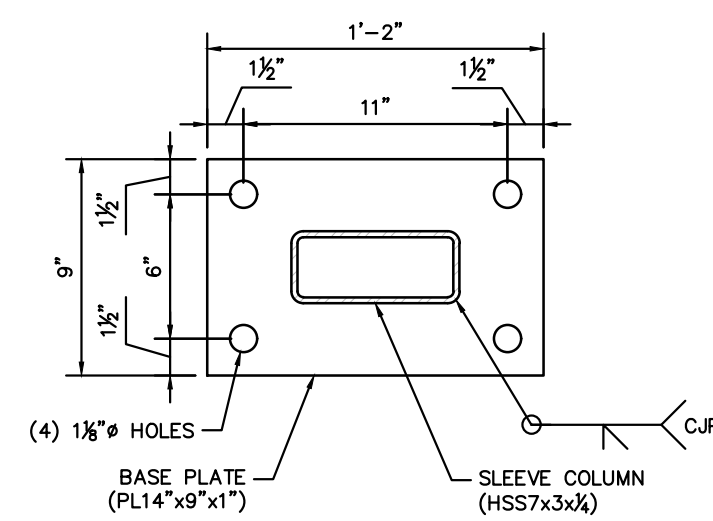
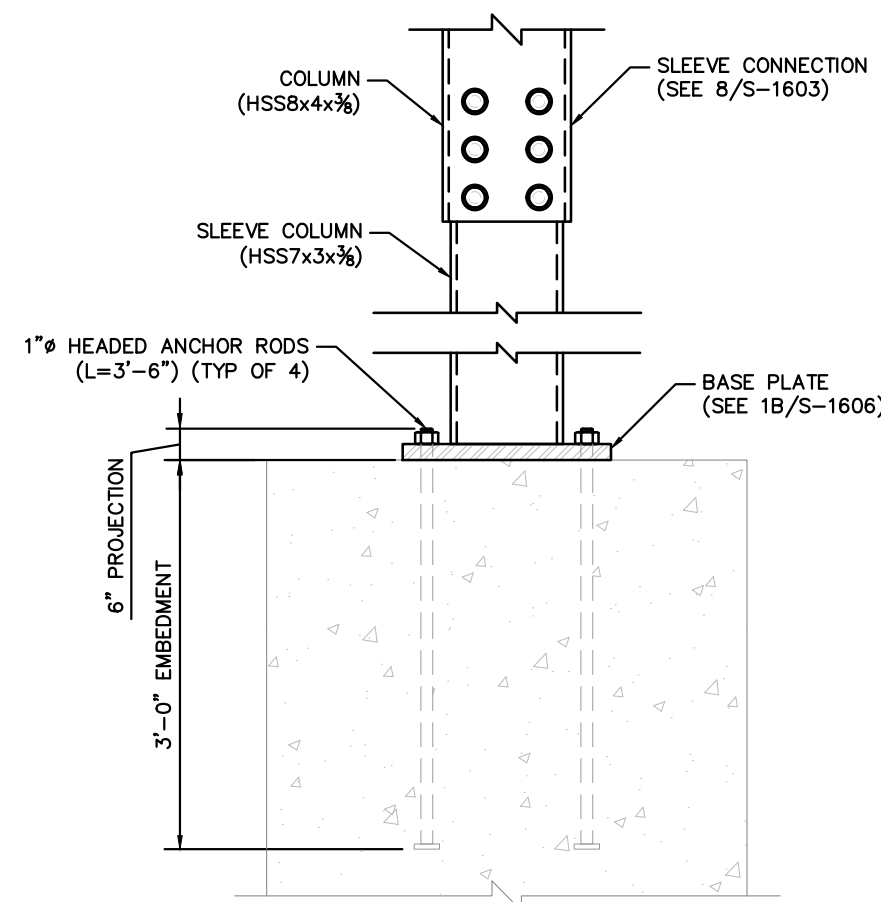


3 COLUMN SLEEVE CONNECTION
S-1604 SCALE: NTS

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CHECKED BY:	RD DATE: 4/5/24
APPROVED BY:	DATE:

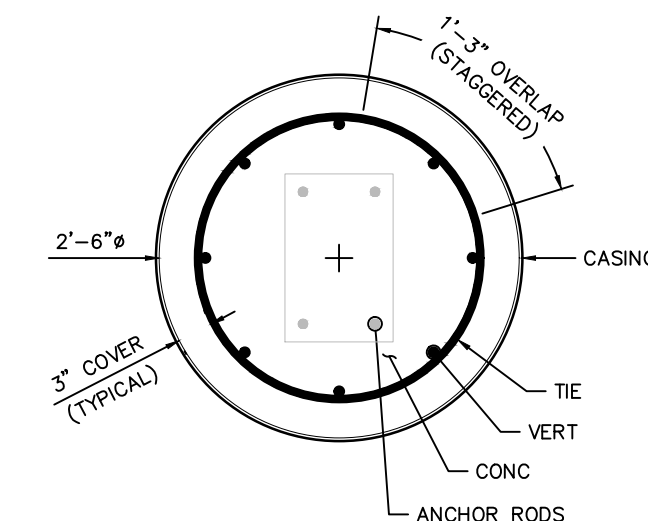
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DATE	BY



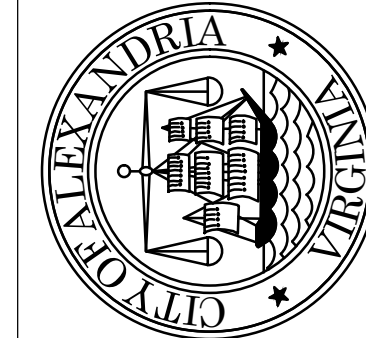


BILL OF MATERIALS -- DRILLED SHAFT					
MARK ID	DESCRIPTION	OPTION A (TOTAL LENGTH 10'-0")		OPTION B (TOTAL LENGTH 13'-0")	
		MATERIAL AND SIZE	QUANTITY	MATERIAL AND SIZE	QUANTITY
CONC	4,500 PSI MIX	1.82 C.Y.	1	2.36 C.Y.	1
VERT	VERTICAL REBAR	ASTM A615-60 #6 x 9'-6"	8	ASTM A615-60 #6 x 12'-6"	8
TIE	TIE REBAR	ASTM A615-60 #4 x 7'-5"	15	ASTM A615-60 #4 x 7'-5"	18
PIPE	TEMPORARY CASING	PL 2'-6" x 1/2"	1	PL 2'-6" x 1/2"	1

- NOTES:
 1. OPTION B IS ONLY REQUIRED FOR SHELTER FOUNDATIONS ON SHEET C-1701. ALL OTHER LOCATIONS TO USE OPTION A.
 2. DRAWINGS DENOTE A GENERIC FOUNDATION CONFIGURATION AND ARE NOT TO SCALE. REFER TO DIMENSIONS AND BILL OF MATERIALS FOR MATERIAL SIZES AND QUANTITIES.
 3. FOR LOCATIONS WHERE GROUNDWATER LEVEL IS HIGHER THAN THE PROPOSED EMBEDMENT DEPTH, A TEMPORARY CASING SHALL BE USED DURING INSTALLATION. THE CASING SHALL BE EXTRACTED AS THE CONCRETE IS PLACED. A HEAD OF CONCRETE SHALL BE MAINTAINED ABOVE THE BOTTOM OF THE CASING TO PREVENT WATER INTRUSION INTO THE CONCRETE BELOW THE CASING.
 4. FOR ADDITIONAL CASING AND INSTALLATION REQUIREMENTS AND CONSIDERATIONS, REFER TO REFERENCED GEOTECHNICAL REPORT



90% DESIGN PHASE



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 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
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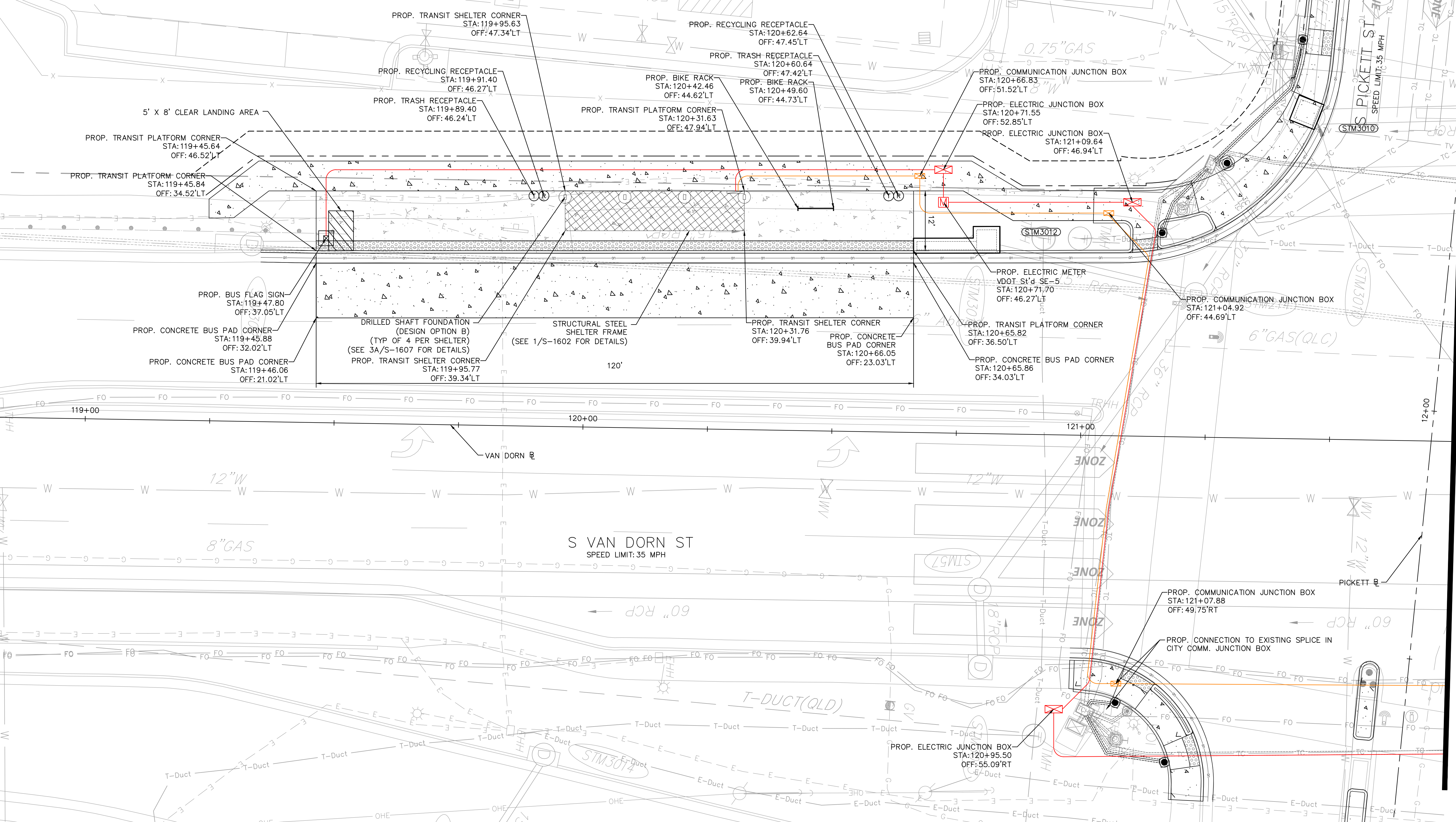
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WEST END TRANSITWAY -- PHASE 1 IMPROVEMENTS

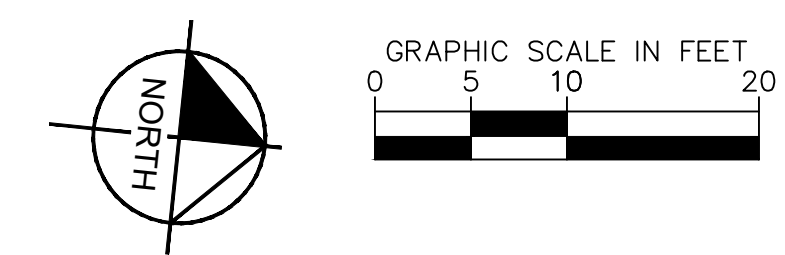
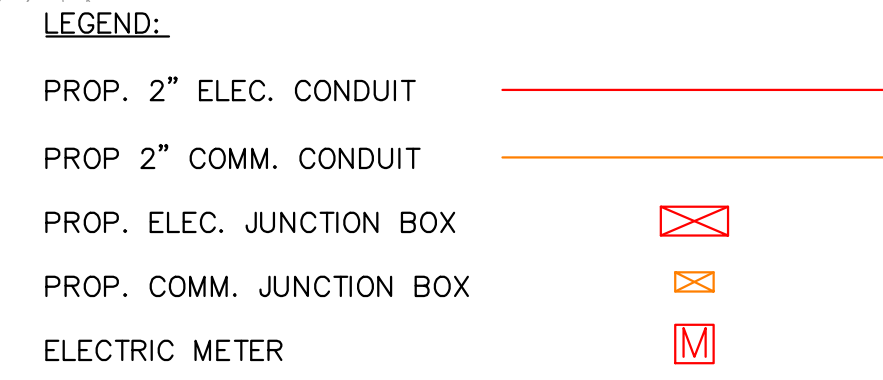
SHELTER FOUNDATION

SHEET
 S-1607
 SCALE AS SHOWN

Plotted By: Phillips, Mark Sheet Set: West End Transitway - Phase 1 Layout: C-1701 TRANSIT STATION PLAN July 12, 2024 08:40:36am K:\VVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\TRANSIT STATION PLAN VAN DORN.dwg



- NOTES:**
- DETECTABLE WARNING SURFACE SHALL BE 2' WIDE ARMOR-TILE CAST IN PLACE OR APPROVED EQUAL, DARK GREY (FEDERAL COLOR NO. 36118).
 - STUB OUT LOCATIONS SHOWN FOR POWER AND COMMUNICATIONS CONDUIT ARE SCHEMATIC ONLY. FINAL LOCATION FO STUB OUTS TO BE FIELD VERIFIED AND APPROVED BY THE CITY PROJECT OFFICER PRIOR TO INSTALLATION.
 - CONTRACTOR TO COORDINATE WITH THE CITY OF ALEXANDRIA TO COORDINATE ON ON-GOING CONSTRUCTION FOR COMMUNICATIONS. CONTRACTOR TO CONFIRM CONSTRUCTION LOCATION FOR SPLICE ENCLOSURE AND LOCATION OF CITY'S FIBER.
 - SEE SHEETS S-1601 - S-1607 FOR SHELTER STRUCTURAL AND FOUNDATION DETAILS.



MATCHLINE STA. 121+75 SEE SHEET C-1702

WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

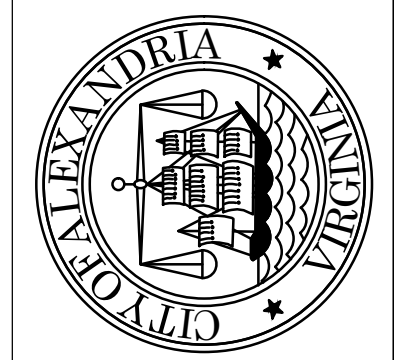
TRANSIT STATION PLAN
- S VAN DORN STREET
AT PICKETT STREET

SHEET
 C-1701
 SCALE 1" = 10'

REVISIONS	DATE	DESCRIPTION

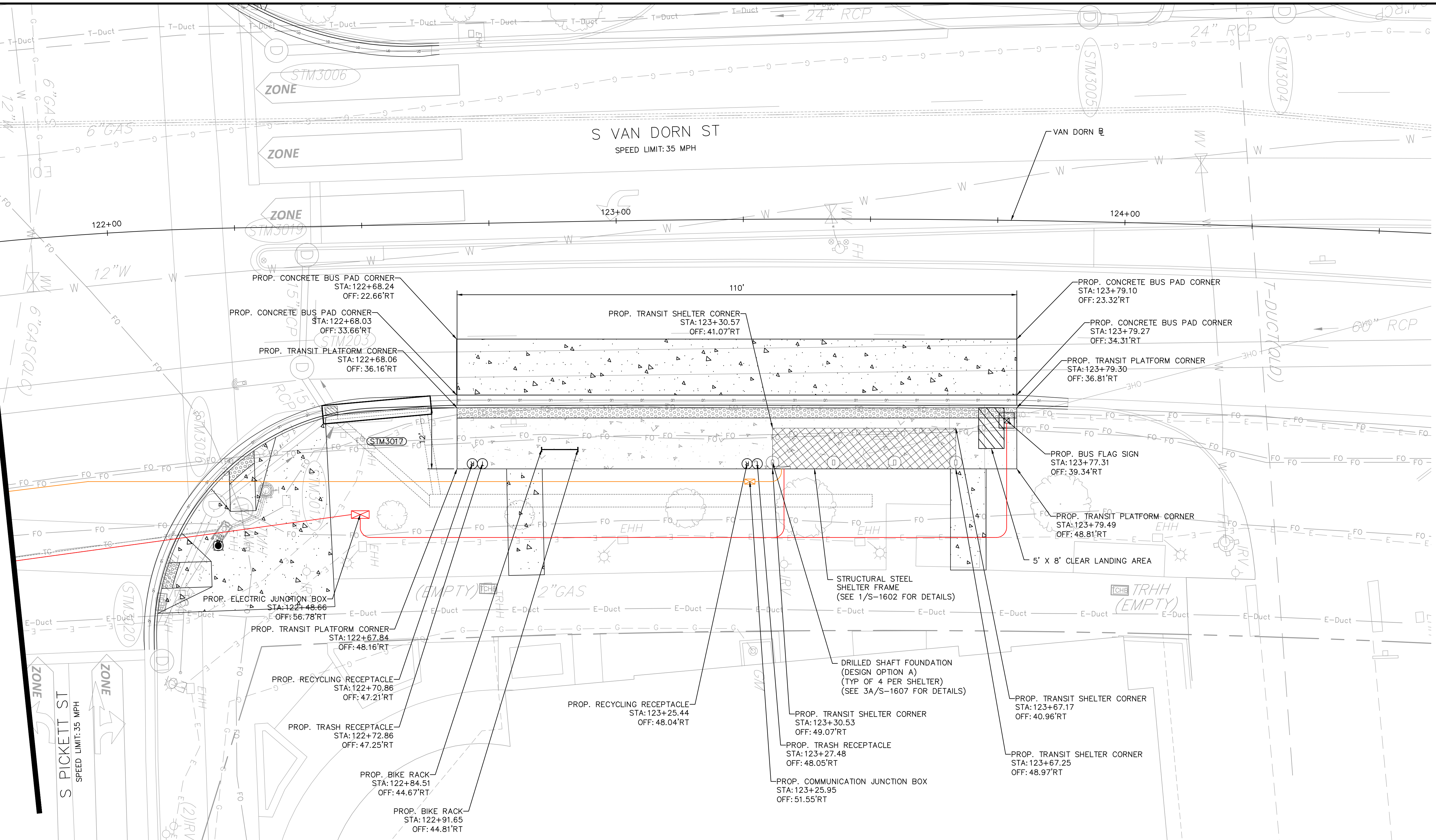
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 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: MAT DATE: 4/5/24
 DRAWN BY: AUB DATE: 4/5/24
 CHECKED BY: EJD DATE: 4/5/24
 APPROVED BY: _____ DATE: _____

CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313



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MATCHLINE STA. 121+75 SEE SHEET C-1701

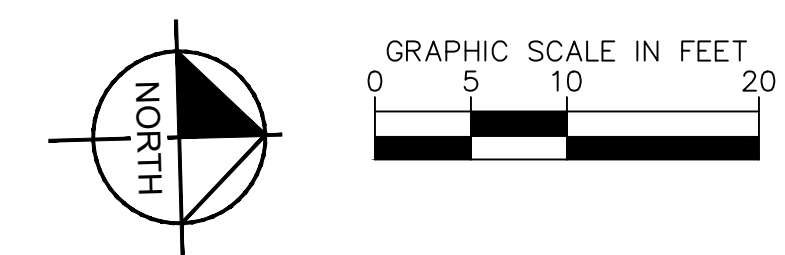


NOTES:

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2. STUB OUT LOCATIONS SHOWN FOR POWER AND COMMUNICATIONS CONDUIT ARE SCHEMATIC ONLY. FINAL LOCATION FO STUB OUTS TO BE FIELD VERIFIED AND APPROVED BY THE CITY PROJECT OFFICER PRIOR TO INSTALLATION.
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4. SEE SHEETS S-1601 - S-1607 FOR SHELTER STRUCTURAL AND FOUNDATION DETAILS.

LEGEND:

- PROP. 2" ELEC. CONDUIT —
- PROP. 2" COMM. CONDUIT —
- PROP. ELEC. JUNCTION BOX X
- PROP. COMM. JUNCTION BOX X
- ELECTRIC METER M



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS 90% DESIGN PHASE



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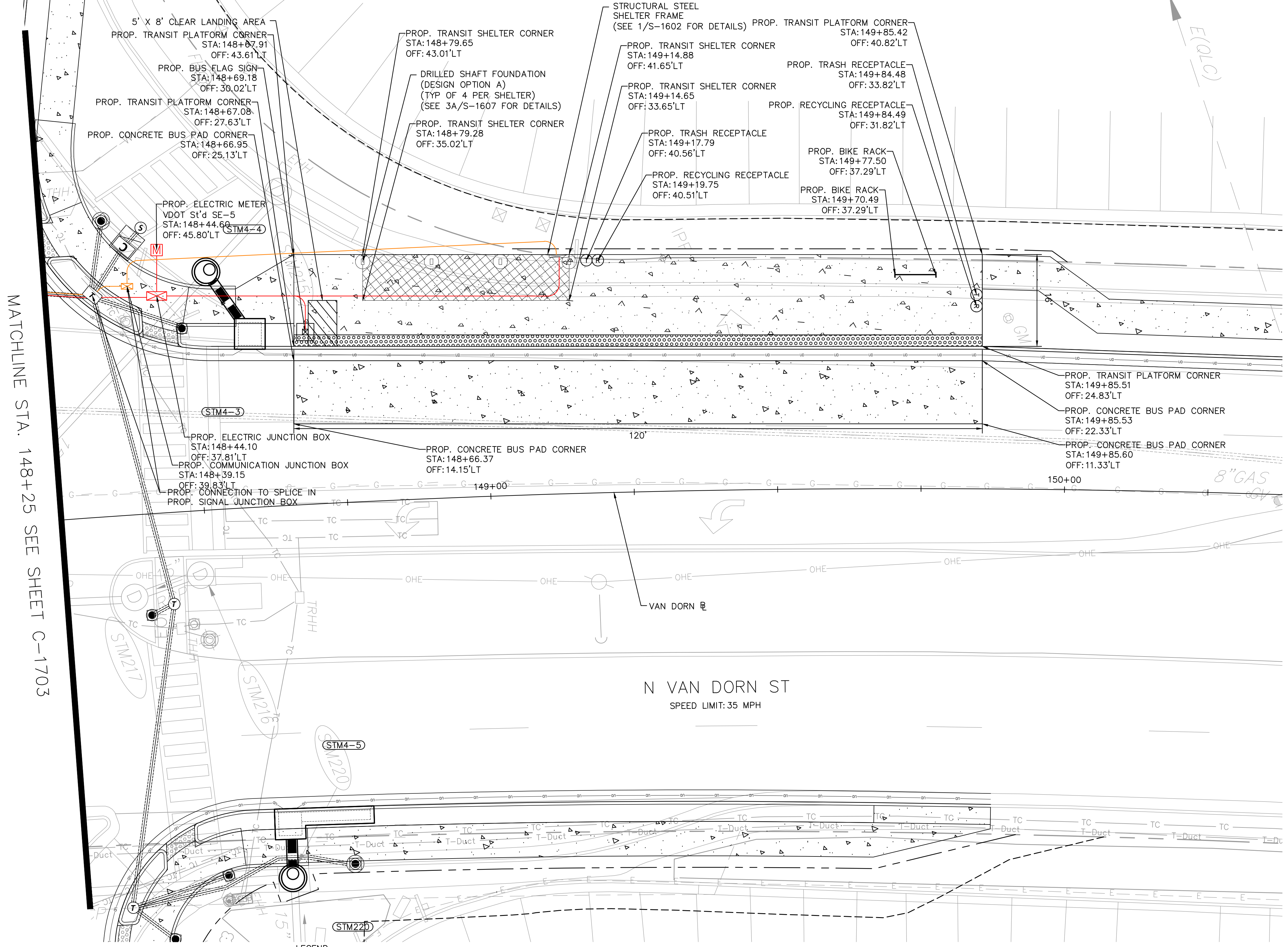
REVISIONS	DESCRIPTION
DATE	
BY	

ALEXANDRIA PROJECT NO.:	110104122
DATE OF PLAN ISSUANCE:	N/A
CONSULTANT PROJECT ID.:	N/A
DESIGNED BY:	MAT. DATE: 4/5/24
DRAWN BY:	AJB. DATE: 4/5/24
CHECKED BY:	EJD. DATE: 4/5/24
APPROVED BY:	DATE:

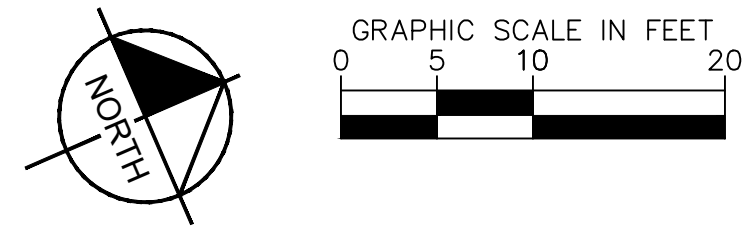
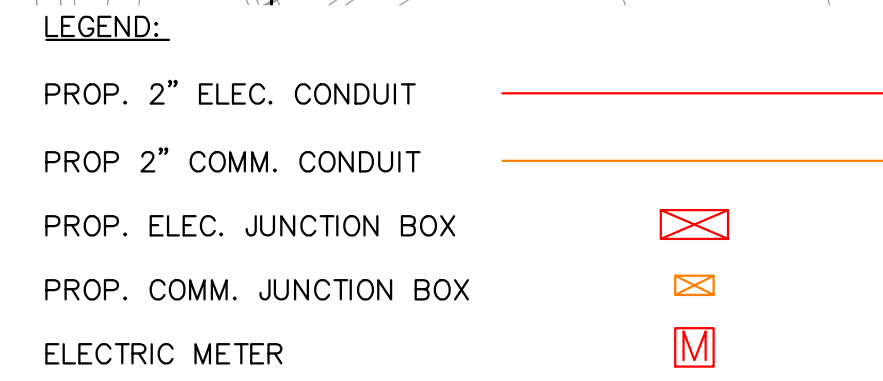
TRANSIT STATION PLAN
- S VAN DORN STREET
AT PICKETT STREET

SHEET
C-1702
SCALE 1" = 10'

Plotted By: Phillips, Mark Sheet Set: West End Transitway - Phase 1 Layout: C-1704 TRANSIT STATION PLAN July 12, 2024 08:41:42am K:\WA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\TRANSIT STATION PLAN VAN DORN.dwg



- NOTES:**
1. DETECTABLE WARNING SURFACE SHALL BE 2' WIDE ARMOR-TILE CAST IN PLACE OR APPROVED EQUAL, DARK GREY (FEDERAL COLOR NO. 36118).
 2. STUB OUT LOCATIONS SHOWN FOR POWER AND COMMUNICATIONS CONDUIT ARE SCHEMATIC ONLY. FINAL LOCATION FOR STUB OUTS TO BE FIELD VERIFIED AND APPROVED BY THE CITY PROJECT OFFICER PRIOR TO INSTALLATION.
 3. CONTRACTOR TO COORDINATE WITH THE CITY OF ALEXANDRIA TO COORDINATE ON ON-GOING CONSTRUCTION FOR COMMUNICATIONS. CONTRACTOR TO CONFIRM CONSTRUCTION LOCATION FOR SPLICE ENCLOSURE AND LOCATION OF CITY'S FIBER.
 4. SEE SHEETS S-1601 - S-1607 FOR SHELTER STRUCTURAL AND FOUNDATION DETAILS.



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS **90% DESIGN PHASE**



CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

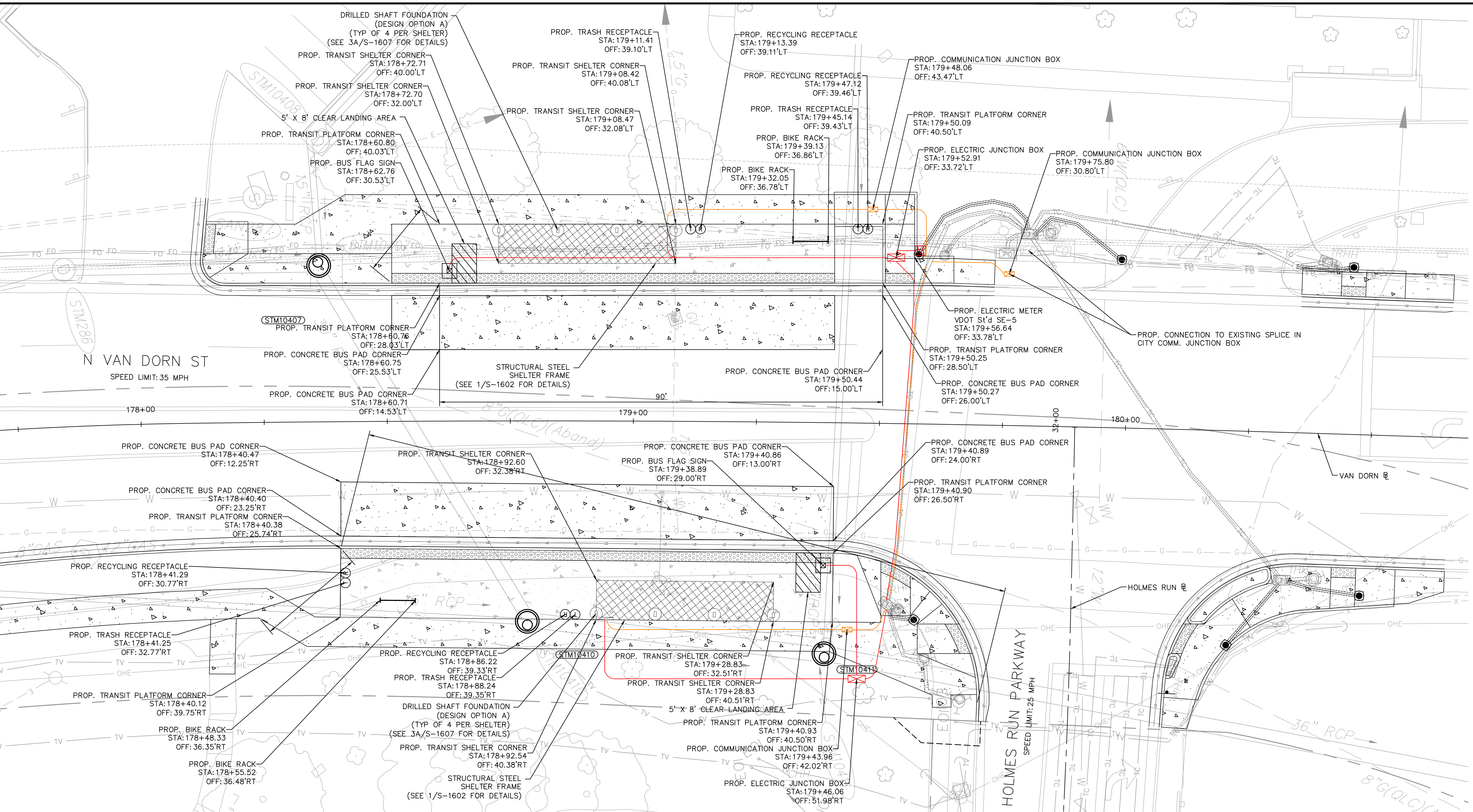
REVISONS	BY	DATE	DESCRIPTION

ALEXANDRIA PROJECT NO.: 110104122
 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: MAT. DATE: 4/5/24
 DRAWN BY: AJB. DATE: 4/5/24
 CHECKED BY: EJD. DATE: 4/5/24
 APPROVED BY: _____ DATE: _____

TRANSIT STATION PLAN
- S VAN DORN STREET
AT STEVENSON AVENUE

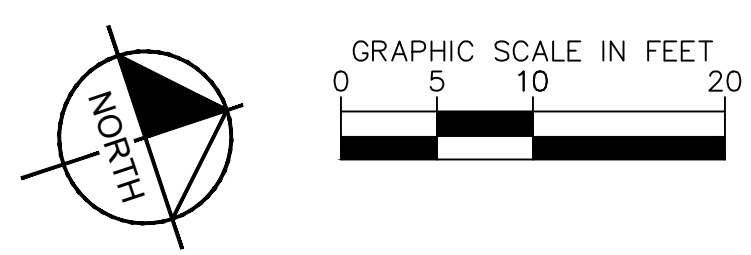
SHEET
 C-1704
 SCALE 1" = 10'

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- NOTES:**
1. DETECTABLE WARNING SURFACE SHALL BE 2' WIDE ARMOR-TILE CAST IN PLACE OR APPROVED EQUAL, DARK GREY (FEDERAL COLOR NO. 36118).
 2. STUB OUT LOCATIONS SHOWN FOR POWER AND COMMUNICATIONS CONDUIT ARE SCHEMATIC ONLY. FINAL LOCATION FOR STUB OUTS TO BE FIELD VERIFIED AND APPROVED BY THE CITY PROJECT OFFICER PRIOR TO INSTALLATION.
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 4. SEE SHEETS S-1601 - S-1607 FOR SHELTER STRUCTURAL AND FOUNDATION DETAILS.

- LEGEND:**
- PROP. 2" ELEC. CONDUIT —
 - PROP. 2" COMM. CONDUIT —
 - PROP. ELEC. JUNCTION BOX ⊗
 - PROP. COMM. JUNCTION BOX ⊗
 - ELECTRIC METER M



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS **90% DESIGN PHASE**



CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

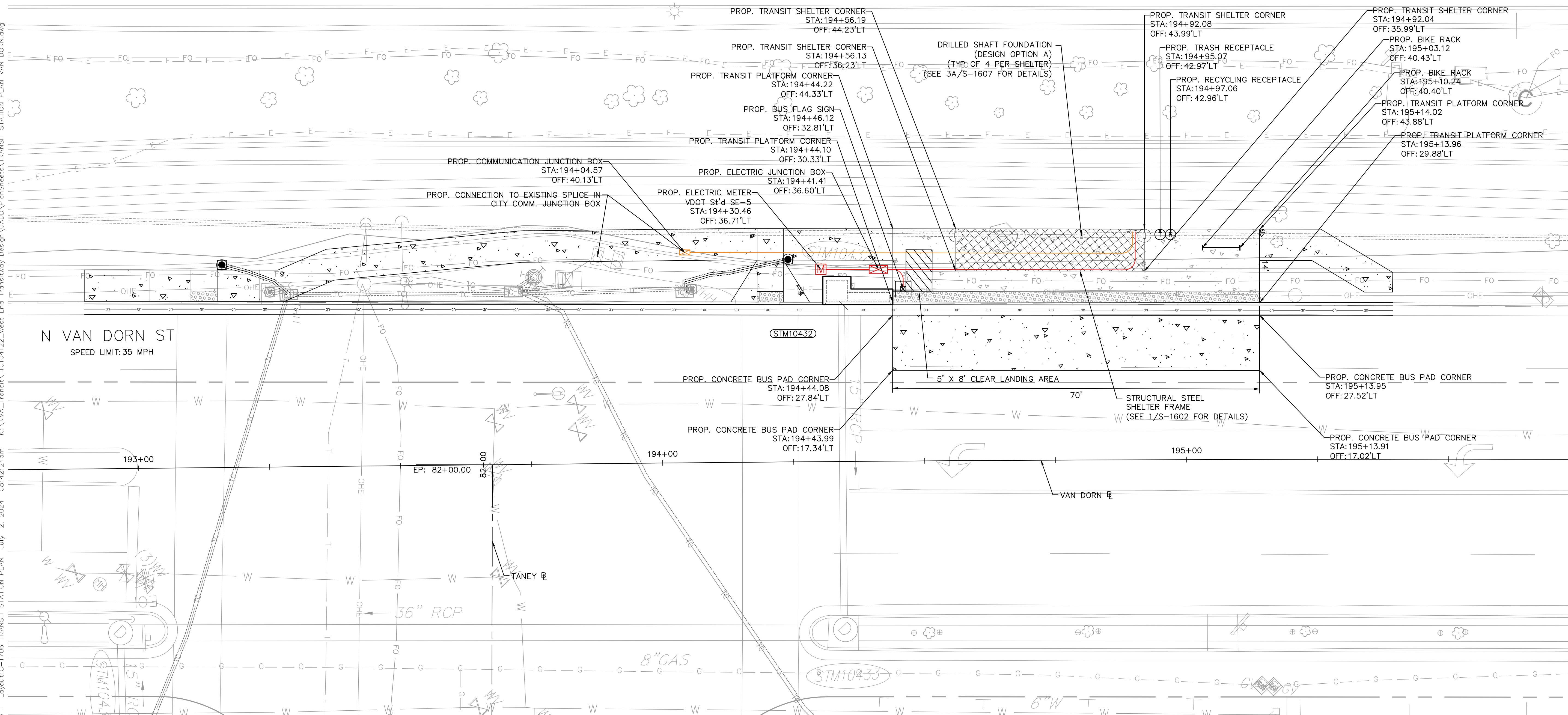
REVISIONS	DESCRIPTION

ALEXANDRIA PROJECT NO.: 110104122	DATE OF PLAN ISSUANCE: N/A
CONSULTANT PROJECT ID: N/A	DESIGNED BY: MAT DATE: 4/5/24
	DRAWN BY: AUB DATE: 4/5/24
	CHECKED BY: EJD DATE: 4/5/24
	APPROVED BY: _____ DATE: _____

TRANSIT STATION PLAN
- N VAN DORN STREET
AT HOLMES RUN
PARKWAY

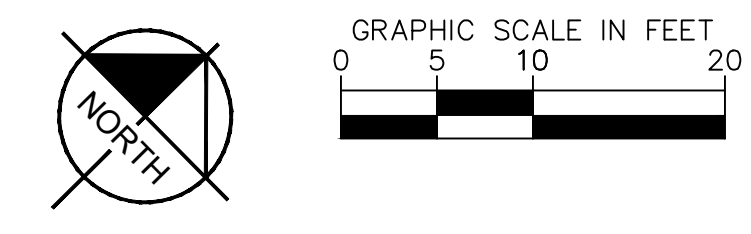
SHEET
 C-1705
 SCALE 1" = 10'

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- NOTES:**
1. DETECTABLE WARNING SURFACE SHALL BE 2' WIDE ARMOR-TILE CAST IN PLACE OR APPROVED EQUAL, DARK GREY (FEDERAL COLOR NO. 36118).
 2. STUB OUT LOCATIONS SHOWN FOR POWER AND COMMUNICATIONS CONDUIT ARE SCHEMATIC ONLY. FINAL LOCATION FO STUB OUTS TO BE FIELD VERIFIED AND APPROVED BY THE CITY PROJECT OFFICER PRIOR TO INSTALLATION.
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 4. SEE SHEETS S-1601 - S-1607 FOR SHELTER STRUCTURAL AND FOUNDATION DETAILS.

- LEGEND:**
- PROP. 2" ELEC. CONDUIT —
 - PROP. 2" COMM. CONDUIT —
 - PROP. ELEC. JUNCTION BOX ⊗
 - PROP. COMM. JUNCTION BOX ⊗
 - ELECTRIC METER M



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS **90% DESIGN PHASE**



CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

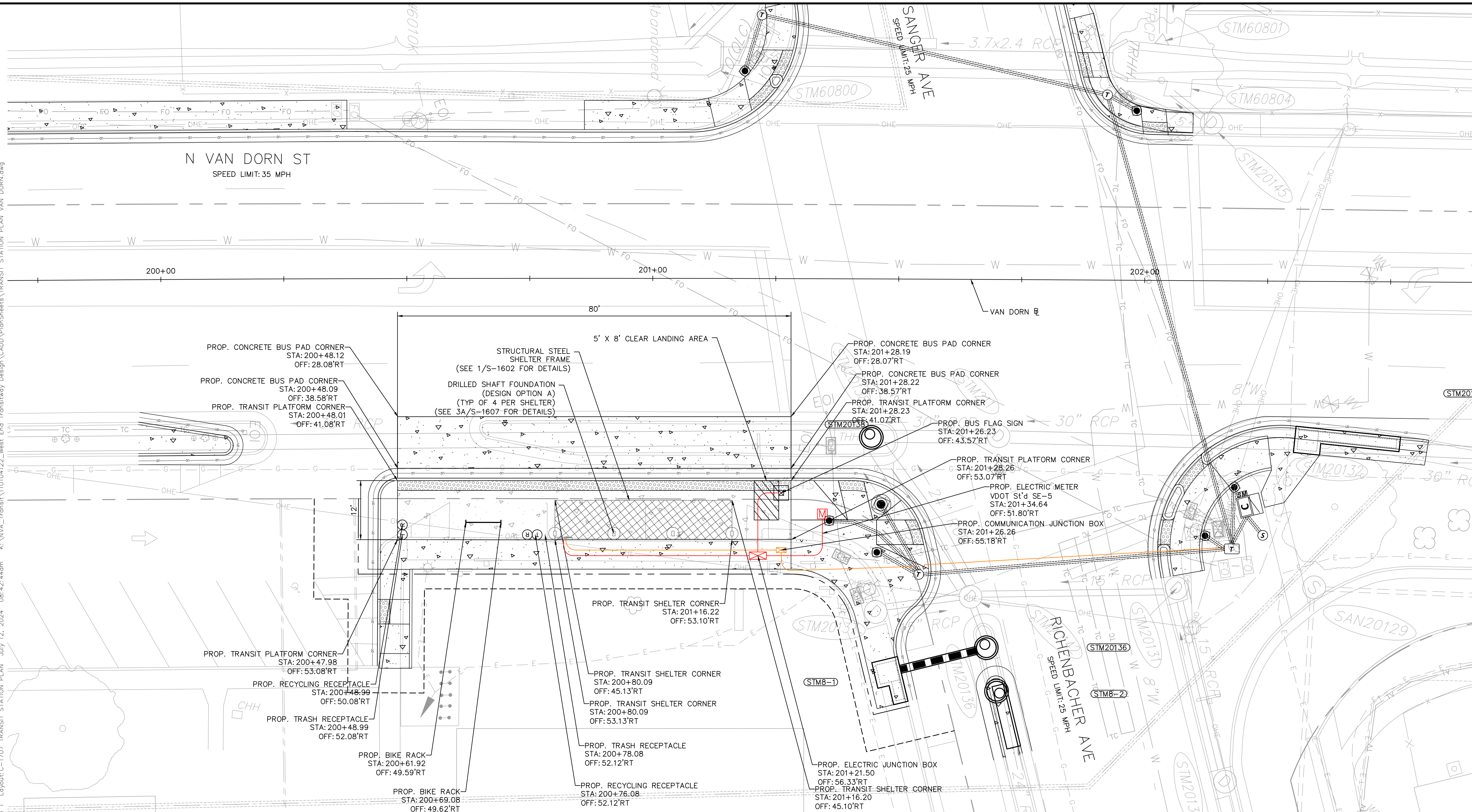
REVISIONS	BY	DATE	DESCRIPTION

ALEXANDRIA PROJECT NO.: 110104122
 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: MAT DATE: 4/5/24
 DRAWN BY: AUB DATE: 4/5/24
 CHECKED BY: EJD DATE: 4/5/24
 APPROVED BY: _____ DATE: _____

TRANSIT STATION PLAN
- N VAN DORN STREET
AT TANEY AVENUE

SHEET
 C-1706
 SCALE 1" = 10'

Plotted By: Phillips, Mark Sheet Set: West End Transitway - Phase 1 Layout: C-1707 TRANSIT STATION PLAN July 12, 2024 08:42:44am K:\VVA_Transit\110104122\West End Transitway Design\CADD\PlanSheets\TRANSIT STATION PLAN VAN DORN.dwg

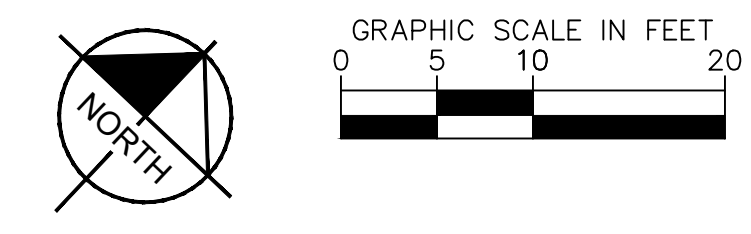


NOTES:

1. DETECTABLE WARNING SURFACE SHALL BE 2' WIDE ARMOR-TILE CAST IN PLACE OR APPROVED EQUAL, DARK GREY (FEDERAL COLOR NO. 36118).
2. STUB OUT LOCATIONS SHOWN FOR POWER AND COMMUNICATIONS CONDUIT ARE SCHEMATIC ONLY. FINAL LOCATION FO STUB OUTS TO BE FIELD VERIFIED AND APPROVED BY THE CITY PROJECT OFFICER PRIOR TO INSTALLATION.
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4. SEE SHEETS S-1601 - S-1607 FOR SHELTER STRUCTURAL AND FOUNDATION DETAILS.

LEGEND:

- PROP. 2" ELEC. CONDUIT —
- PROP. 2" COMM. CONDUIT —
- PROP. ELEC. JUNCTION BOX X
- PROP. COMM. JUNCTION BOX X
- ELECTRIC METER M



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS **90% DESIGN PHASE**



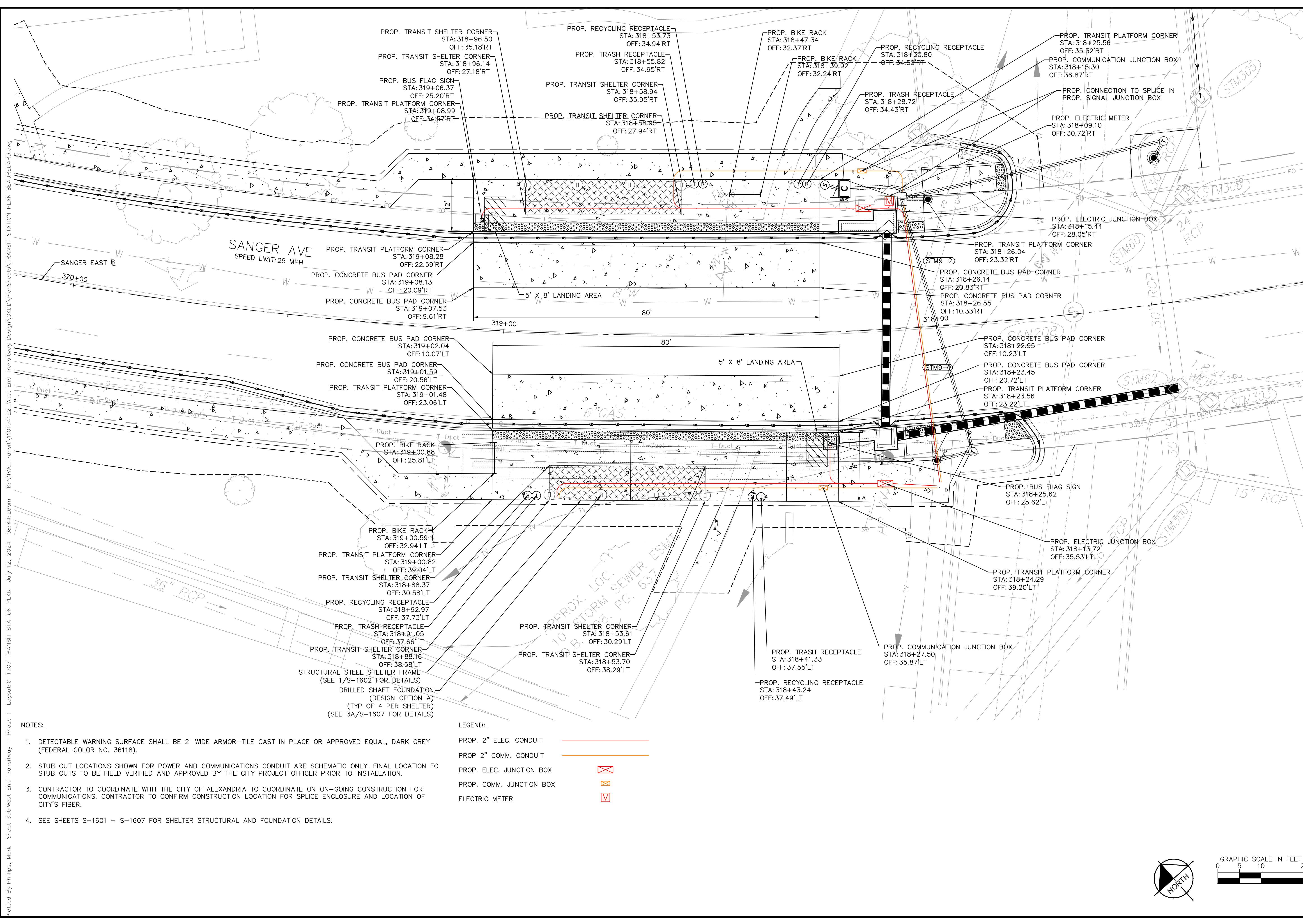
CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

REVISIONS	DESCRIPTION
DATE	BY

ALEXANDRIA PROJECT NO.: 110104122	DATE OF PLAN ISSUANCE: N/A
CONSULTANT PROJECT ID: N/A	DESIGNED BY: MAT DATE: 4/5/24
	DRAWN BY: AUB DATE: 4/5/24
	CHECKED BY: EJD DATE: 4/5/24
	APPROVED BY: _____ DATE: _____

TRANSIT STATION PLAN
- N VAN DORN STREET
AT RICHENBACHER
AVENUE

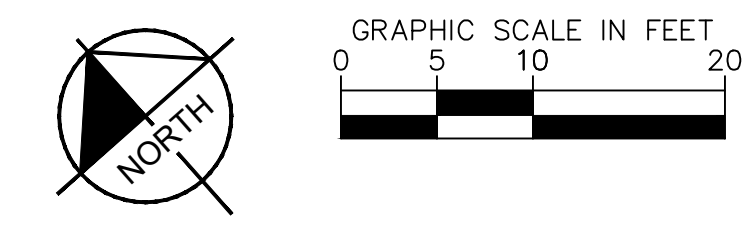
SHEET
 C-1707
 SCALE 1" = 10'



Plotted By: Phillips, Mark Sheet Set: West End Transitway - Phase 1 Layout: C-1707 TRANSIT STATION PLAN July 12, 2024 08:44:26am K:\VVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\TRANSIT STATION PLAN BEAUREGARD.dwg

- NOTES:**
1. DETECTABLE WARNING SURFACE SHALL BE 2' WIDE ARMOR-TILE CAST IN PLACE OR APPROVED EQUAL, DARK GREY (FEDERAL COLOR NO. 36118).
 2. STUB OUT LOCATIONS SHOWN FOR POWER AND COMMUNICATIONS CONDUIT ARE SCHEMATIC ONLY. FINAL LOCATION FOR STUB OUTS TO BE FIELD VERIFIED AND APPROVED BY THE CITY PROJECT OFFICER PRIOR TO INSTALLATION.
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 4. SEE SHEETS S-1601 - S-1607 FOR SHELTER STRUCTURAL AND FOUNDATION DETAILS.

- LEGEND:**
- PROP. 2" ELEC. CONDUIT —
 - PROP. 2" COMM. CONDUIT —
 - PROP. ELEC. JUNCTION BOX ⊗
 - PROP. COMM. JUNCTION BOX ⊗
 - ELECTRIC METER M



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

90% DESIGN PHASE

REVISIONS	DESCRIPTION

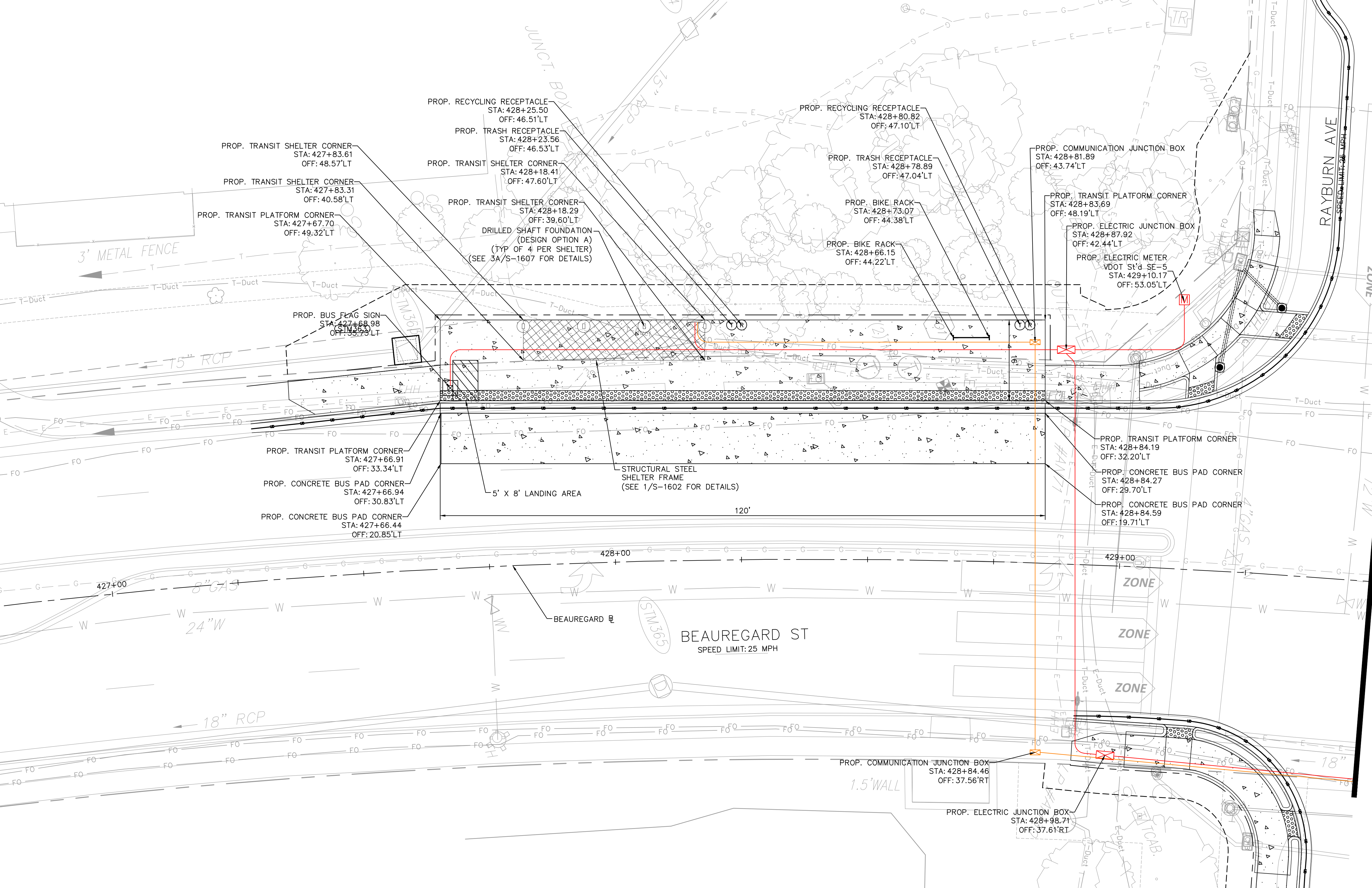
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TRANSIT STATION PLAN
- SANGER AVENUE

SHEET
C-1708

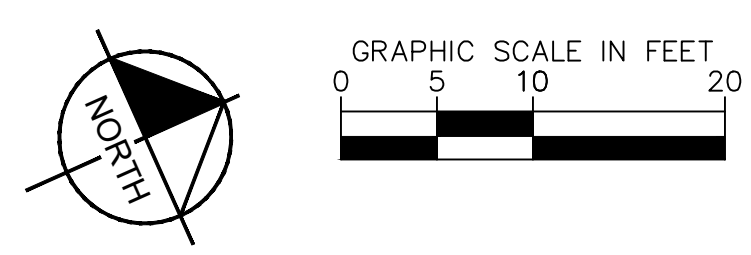
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- NOTES:**
1. DETECTABLE WARNING SURFACE SHALL BE 2" WIDE ARMOR-TILE CAST IN PLACE OR APPROVED EQUAL, DARK GREY (FEDERAL COLOR NO. 36118).
 2. STUB OUT LOCATIONS SHOWN FOR POWER AND COMMUNICATIONS CONDUIT ARE SCHEMATIC ONLY. FINAL LOCATION FO STUB OUTS TO BE FIELD VERIFIED AND APPROVED BY THE CITY PROJECT OFFICER PRIOR TO INSTALLATION.
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 4. SEE SHEETS S-1601 - S-1607 FOR SHELTER STRUCTURAL AND FOUNDATION DETAILS.

- LEGEND:**
- PROP. 2" ELEC. CONDUIT —
 - PROP. 2" COMM. CONDUIT —
 - PROP. ELEC. JUNCTION BOX X
 - PROP. COMM. JUNCTION BOX X
 - ELECTRIC METER M



MATCHLINE STA. 429+50 SEE SHEET C-1710

WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

TRANSIT STATION PLAN
- BEAUREGARD STREET
AT RAYBURN STREET

90% DESIGN PHASE

CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

REVISIONS	DESCRIPTION

ALEXANDRIA PROJECT NO.: 110104122

DATE OF PLAN ISSUANCE: N/A

CONSULTANT PROJECT ID: N/A

DESIGNED BY: MAT. DATE: 4/5/24

DRAWN BY: AUB. DATE: 4/5/24

CHECKED BY: EJD. DATE: 4/5/24

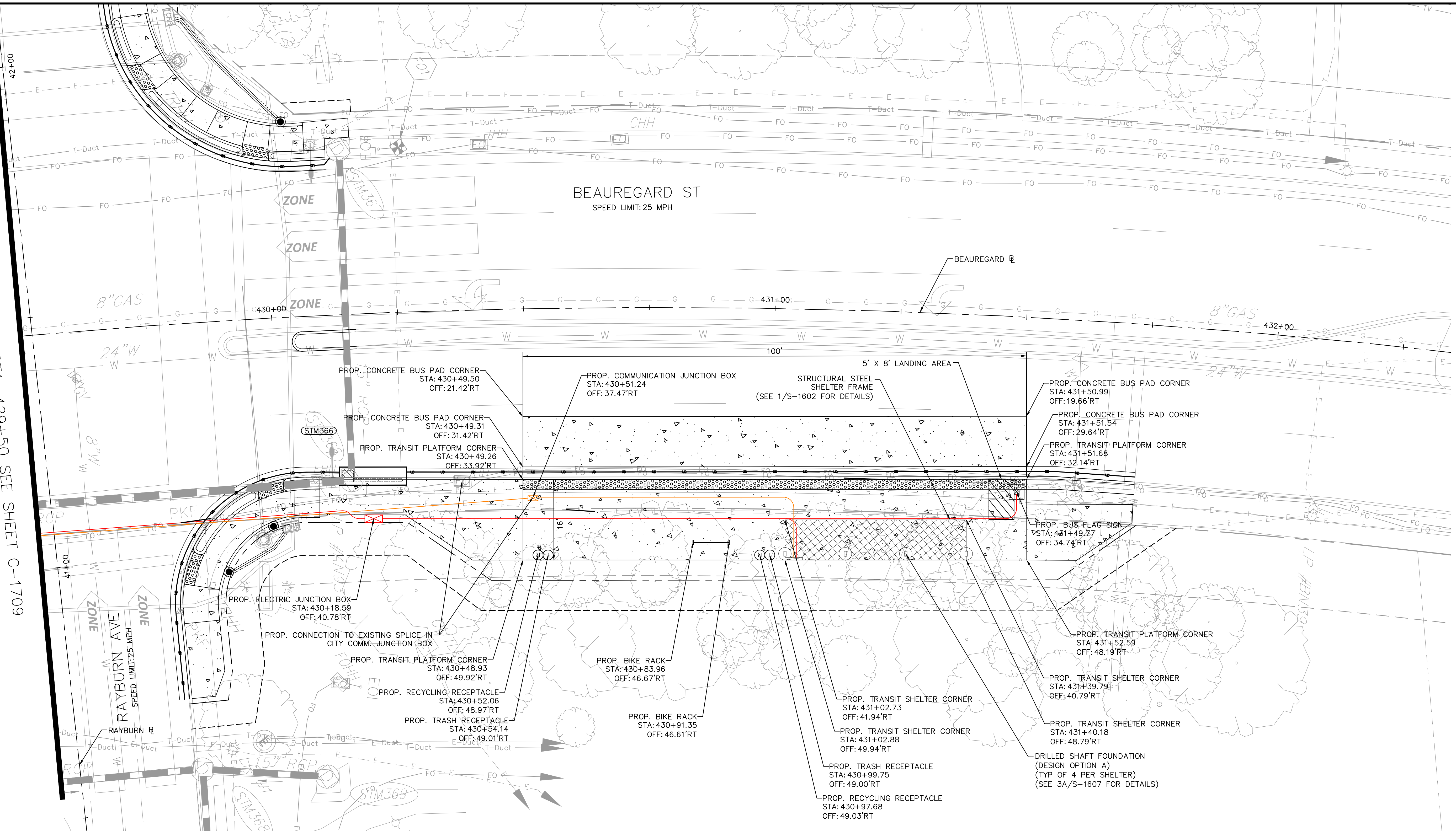
APPROVED BY: _____ DATE: _____

SHEET
C-1709

SCALE 1" = 10'

Plotted By: Phillips, Mark Sheet Set: West End Transitway - Phase 1 Layout: C-1709 TRANSIT STATION PLAN July 12, 2024 08:45:16am K:\VVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\TRANSIT STATION PLAN BEAUREGARD.dwg

MATCHLINE STA. 429+50 SEE SHEET C-1709

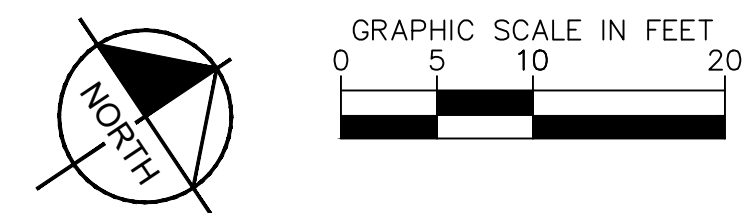


NOTES:

1. DETECTABLE WARNING SURFACE SHALL BE 2' WIDE ARMOR-TILE CAST IN PLACE OR APPROVED EQUAL, DARK GREY (FEDERAL COLOR NO. 36118).
2. STUB OUT LOCATIONS SHOWN FOR POWER AND COMMUNICATIONS CONDUIT ARE SCHEMATIC ONLY. FINAL LOCATION FO STUB OUTS TO BE FIELD VERIFIED AND APPROVED BY THE CITY PROJECT OFFICER PRIOR TO INSTALLATION.
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4. SEE SHEETS S-1601 - S-1607 FOR SHELTER STRUCTURAL AND FOUNDATION DETAILS.

LEGEND:

- PROP. 2" ELEC. CONDUIT —
- PROP. 2" COMM. CONDUIT —
- PROP. ELEC. JUNCTION BOX E
- PROP. COMM. JUNCTION BOX C
- ELECTRIC METER M



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS 90% DESIGN PHASE



CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

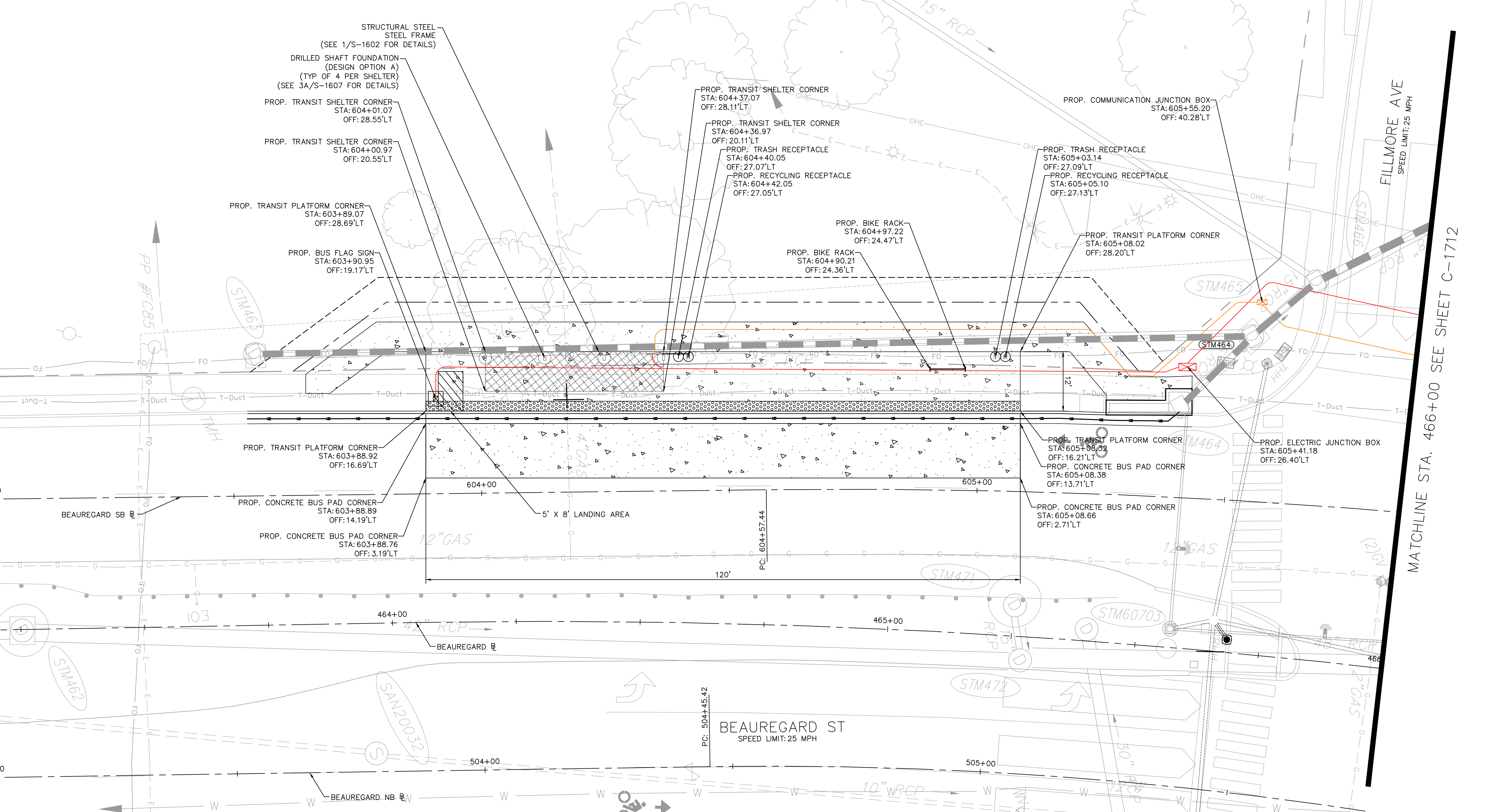
REVISIONS	DESCRIPTION
DATE	
BY	

ALEXANDRIA PROJECT NO.: 110104122
DATE OF PLAN ISSUANCE: N/A
CONSULTANT PROJECT ID: N/A
DESIGNED BY: MAT. DATE: 4/5/24
DRAWN BY: AUB. DATE: 4/5/24
CHECKED BY: EJD. DATE: 4/5/24
APPROVED BY: _____ DATE: _____

TRANSIT STATION PLAN
- BEAUREGARD STREET
AT RAYBURN STREET

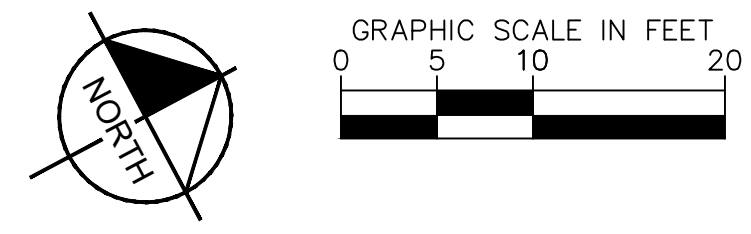
SHEET
C-1710
SCALE 1" = 10'

Plotted By: Phillips, Mark Sheet Set: West End Transitway - Phase 1 Layout: C-1710 TRANSIT STATION PLAN July 12, 2024 08:45:52am K:\NVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\TRANSIT STATION PLAN BEAUREGARD.dwg



- NOTES:**
- DETECTABLE WARNING SURFACE SHALL BE 2' WIDE ARMOR-TILE CAST IN PLACE OR APPROVED EQUAL, DARK GREY (FEDERAL COLOR NO. 36118).
 - STUB OUT LOCATIONS SHOWN FOR POWER AND COMMUNICATIONS CONDUIT ARE SCHEMATIC ONLY. FINAL LOCATION FOR STUB OUTS TO BE FIELD VERIFIED AND APPROVED BY THE CITY PROJECT OFFICER PRIOR TO INSTALLATION.
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 - SEE SHEETS S-1601 - S-1607 FOR SHELTER STRUCTURAL AND FOUNDATION DETAILS.

- LEGEND:**
- PROP. 2" ELEC. CONDUIT —
 - PROP. 2" COMM. CONDUIT —
 - PROP. ELEC. JUNCTION BOX
 - PROP. COMM. JUNCTION BOX
 - ELECTRIC METER M



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

TRANSIT STATION PLAN
- BEAUREGARD STREET
AT FILLMORE AVENUE

90% DESIGN PHASE

ALEXANDRIA PROJECT NO.: 110104122
 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: MAT DATE: 4/5/24
 DRAWN BY: AUB DATE: 4/5/24
 CHECKED BY: EJD DATE: 4/5/24
 APPROVED BY: _____ DATE: _____

CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

REVISIONS

NO.	DESCRIPTION	DATE

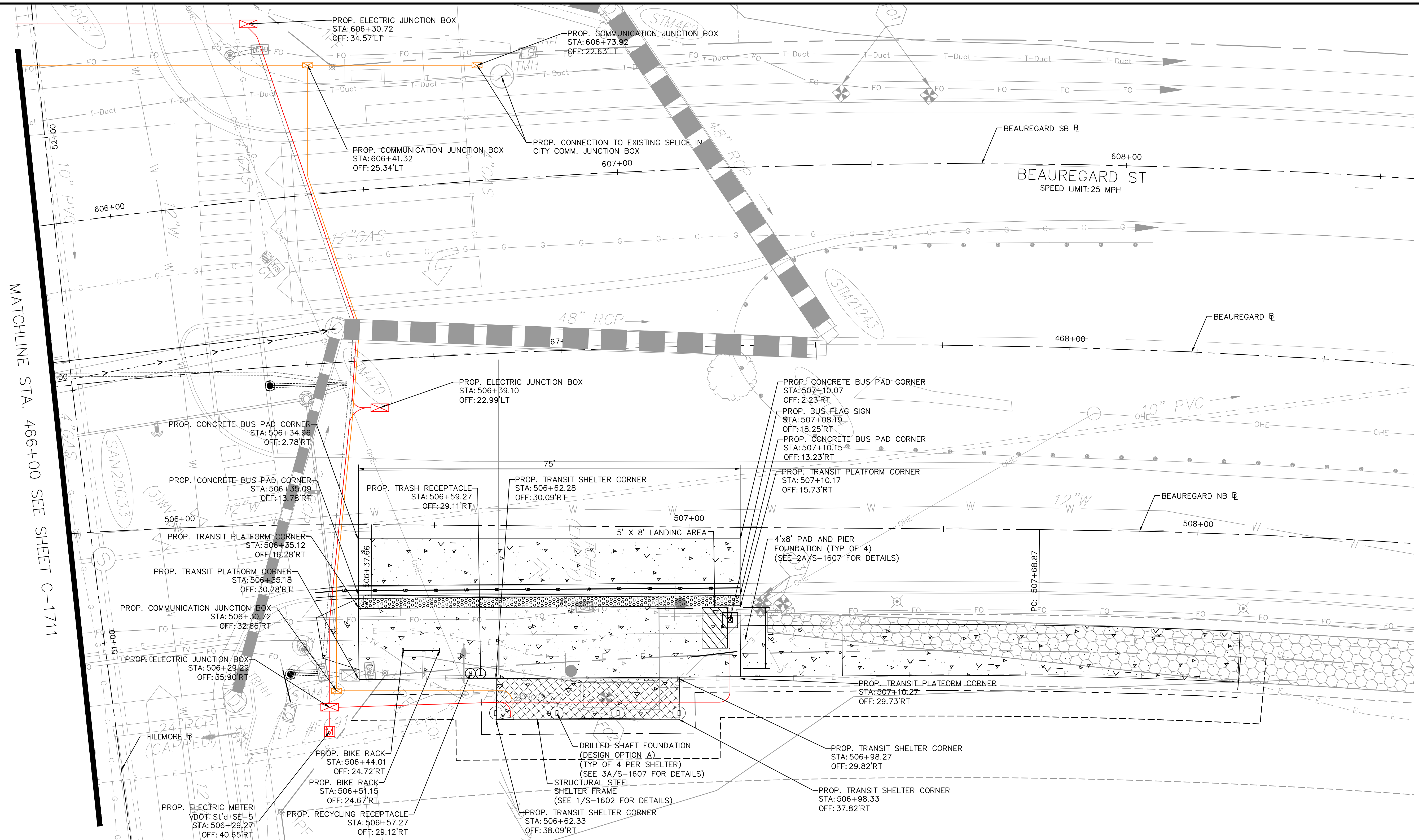
MATCHLINE STA. 466+00 SEE SHEET C-1712

SEE SHEET C-1711

SHEET
C-1711

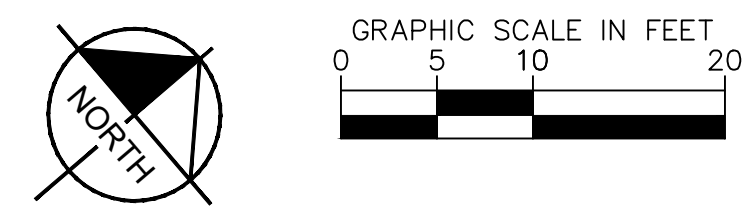
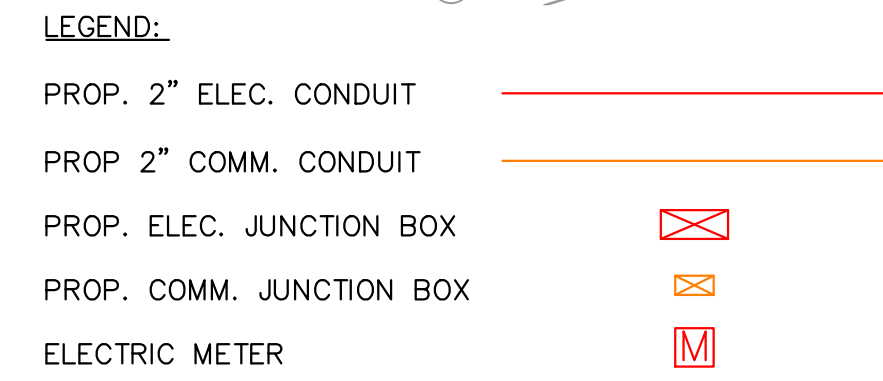
SCALE 1" = 10'

Plotted By: Phillips, Mark Sheet Set: West End Transitway - Phase 1 Transit Station Plan C-1711 July 12, 2024 08:46:20am K:\WA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\TRANSIT STATION PLAN BEAUREGARD.dwg



MATCHLINE STA. 466+00 SEE SHEET C-1711

- NOTES:**
1. DETECTABLE WARNING SURFACE SHALL BE 2' WIDE ARMOR-TILE CAST IN PLACE OR APPROVED EQUAL, DARK GREY (FEDERAL COLOR NO. 36118).
 2. STUB OUT LOCATIONS SHOWN FOR POWER AND COMMUNICATIONS CONDUIT ARE SCHEMATIC ONLY. FINAL LOCATION FO STUB OUTS TO BE FIELD VERIFIED AND APPROVED BY THE CITY PROJECT OFFICER PRIOR TO INSTALLATION.
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 4. SEE SHEETS S-1601 - S-1607 FOR SHELTER STRUCTURAL AND FOUNDATION DETAILS.



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

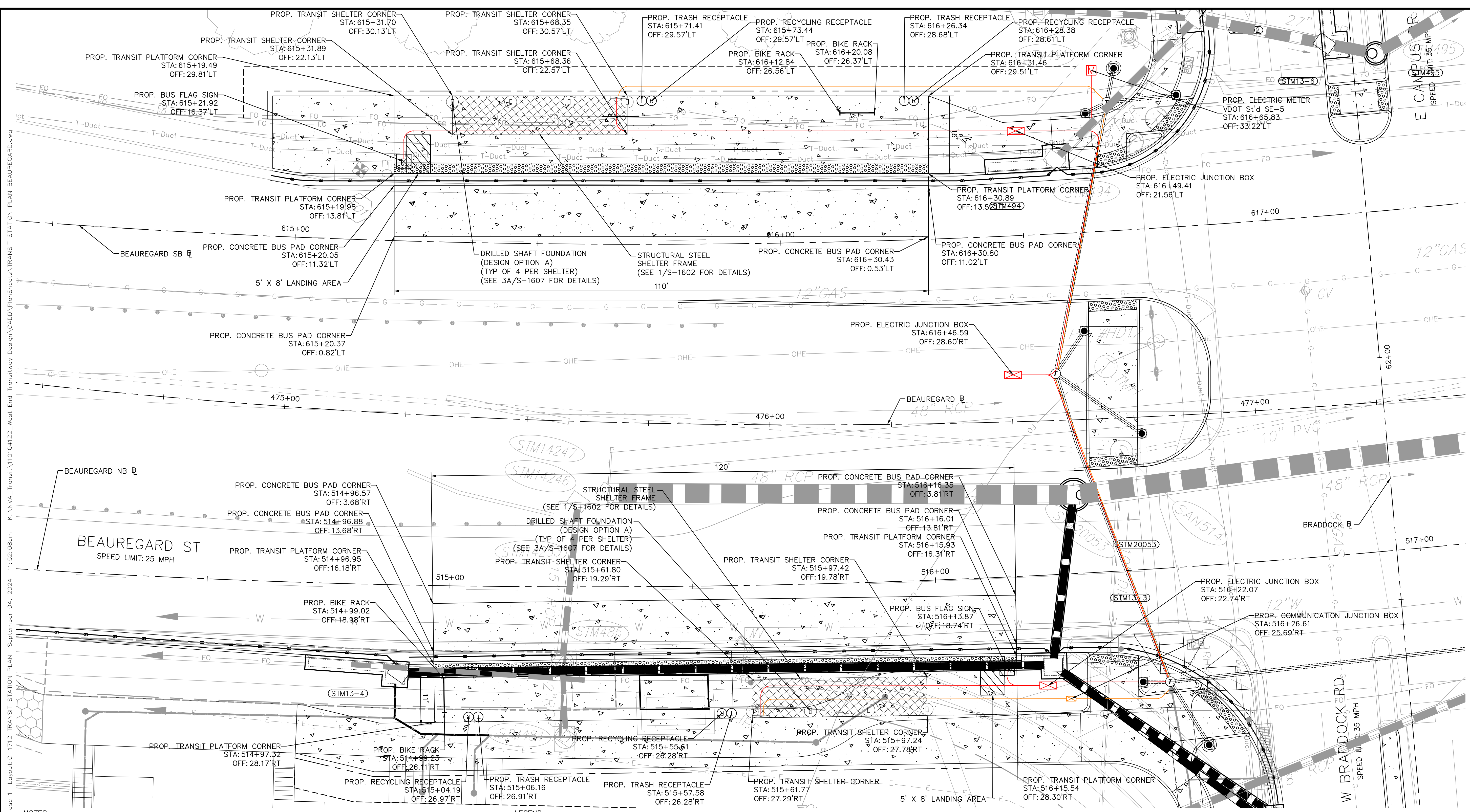
90% DESIGN PHASE

REVISIONS	DESCRIPTION

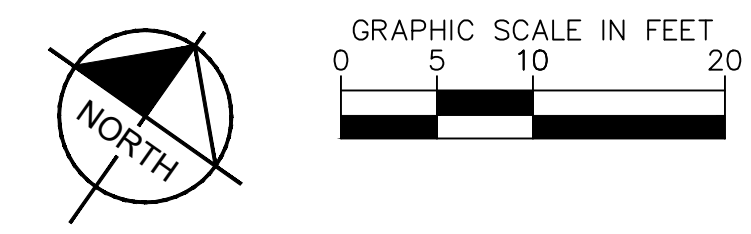
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TRANSIT STATION PLAN
- BEAUREGARD STREET
AT FILLMORE AVENUE

SHEET
C-1712
SCALE 1" = 10'



- NOTES:**
1. DETECTABLE WARNING SURFACE SHALL BE 2' WIDE ARMOR-TILE CAST IN PLACE OR APPROVED EQUAL, DARK GREY (FEDERAL COLOR NO. 36118).
 2. STUB OUT LOCATIONS SHOWN FOR POWER AND COMMUNICATIONS CONDUIT ARE SCHEMATIC ONLY. FINAL LOCATION FO STUB OUTS TO BE FIELD VERIFIED AND APPROVED BY THE CITY PROJECT OFFICER PRIOR TO INSTALLATION.
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 4. SEE SHEETS S-1601 - S-1607 FOR SHELTER STRUCTURAL AND FOUNDATION DETAILS.
- LEGEND:**
- PROP. 2" ELEC. CONDUIT
 - PROP. 2" COMM. CONDUIT
 - PROP. ELEC. JUNCTION BOX
 - PROP. COMM. JUNCTION BOX
 - ELECTRIC METER



Plotted By: Grovitt, Sydney Sheet Set: West End Transitway - Phase 1 Layout: C-1712 TRANSIT STATION PLAN September 04, 2024 11:52:08am K:\NVA_Transit\10104122_West End Transitway Design\CADD\PlanSheets\TRANSIT STATION PLAN BEAUREGARD.dwg

WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

90% DESIGN PHASE

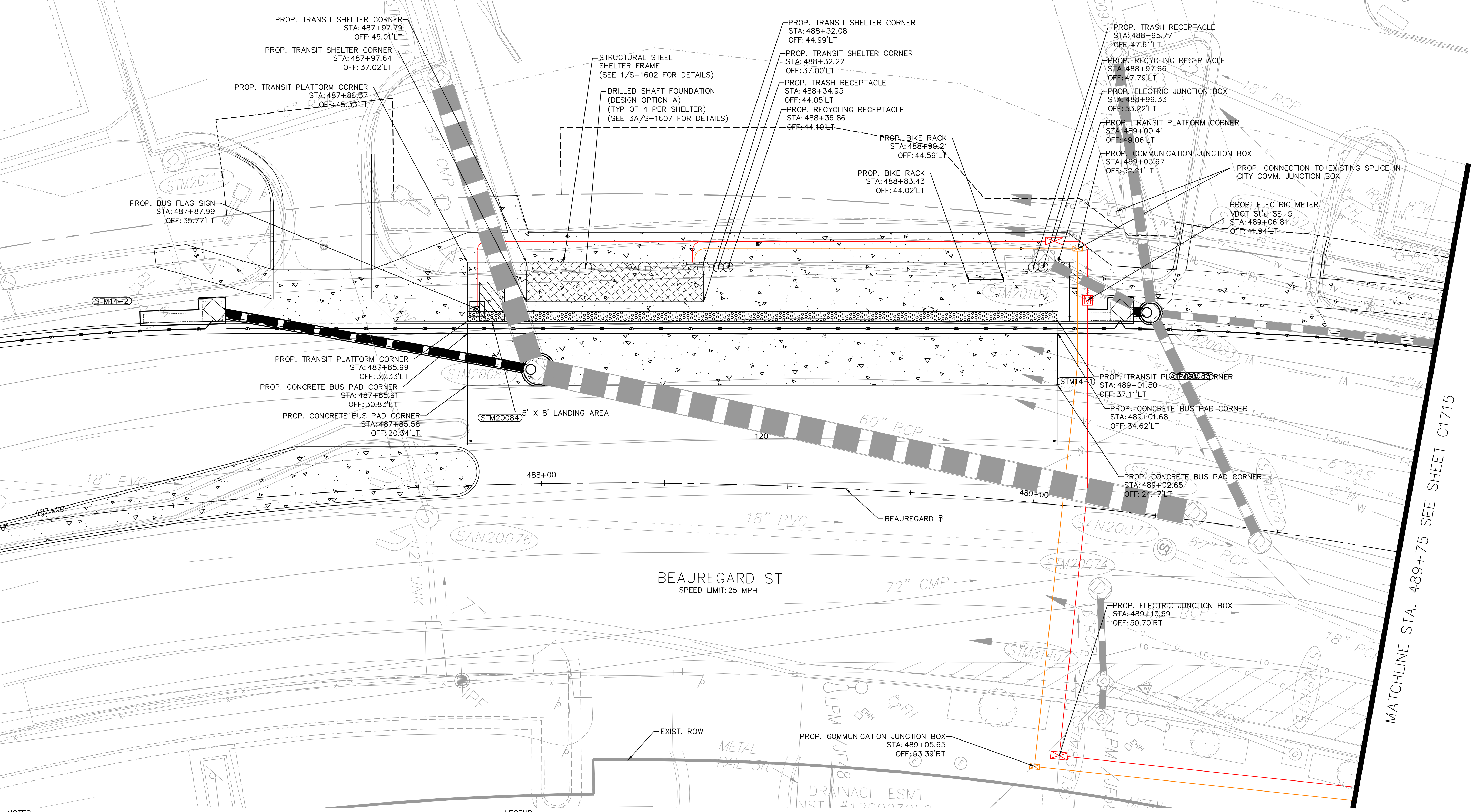
REVISIONS	DESCRIPTION

ALEXANDRIA PROJECT NO.: 110104122	DATE OF PLAN ISSUANCE: N/A	CONSULTANT PROJECT ID: N/A	DESIGNED BY: MAT DATE: 4/5/24	DRAWN BY: AUB DATE: 4/5/24	CHECKED BY: EJD DATE: 4/5/24	APPROVED BY: _____ DATE: _____
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**TRANSIT STATION PLAN
 - BEAUREGARD STREET
 AT BRADDOCK ROAD**

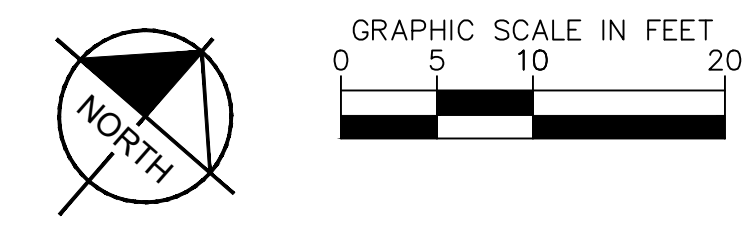
SHEET
 C-1713
 SCALE 1" = 10'

Plotted By: Phillips, Mark Sheet Set: West End Transitway - Phase 1 Layout: C-1714 TRANSIT STATION PLAN - BEAUREGARD STREET AT KING STREET July 12, 2024 08:47:19am K:\NVA_Traffic\110104122_West_End_Transitway_Design\CADD\PlanSheets\TRANSIT_STATION_PLAN_BEAUREGARD.dwg



- NOTES:**
1. DETECTABLE WARNING SURFACE SHALL BE 2' WIDE ARMOR-TILE CAST IN PLACE OR APPROVED EQUAL, DARK GREY (FEDERAL COLOR NO. 36118).
 2. STUB OUT LOCATIONS SHOWN FOR POWER AND COMMUNICATIONS CONDUIT ARE SCHEMATIC ONLY. FINAL LOCATION FOR STUB OUTS TO BE FIELD VERIFIED AND APPROVED BY THE CITY PROJECT OFFICER PRIOR TO INSTALLATION.
 3. CONTRACTOR TO COORDINATE WITH THE CITY OF ALEXANDRIA TO COORDINATE ON ON-GOING CONSTRUCTION FOR COMMUNICATIONS. CONTRACTOR TO CONFIRM CONSTRUCTION LOCATION FOR SPLICE ENCLOSURE AND LOCATION OF CITY'S FIBER.
 4. SEE SHEETS S-1601 - S-1607 FOR SHELTER STRUCTURAL AND FOUNDATION DETAILS.

- LEGEND:**
- PROP. 2" ELEC. CONDUIT —
 - PROP. 2" COMM. CONDUIT —
 - PROP. ELEC. JUNCTION BOX ⊠
 - PROP. COMM. JUNCTION BOX ⊠
 - ELECTRIC METER M



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS **90% DESIGN PHASE**



CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

REVISIONS	DESCRIPTION
DATE	BY

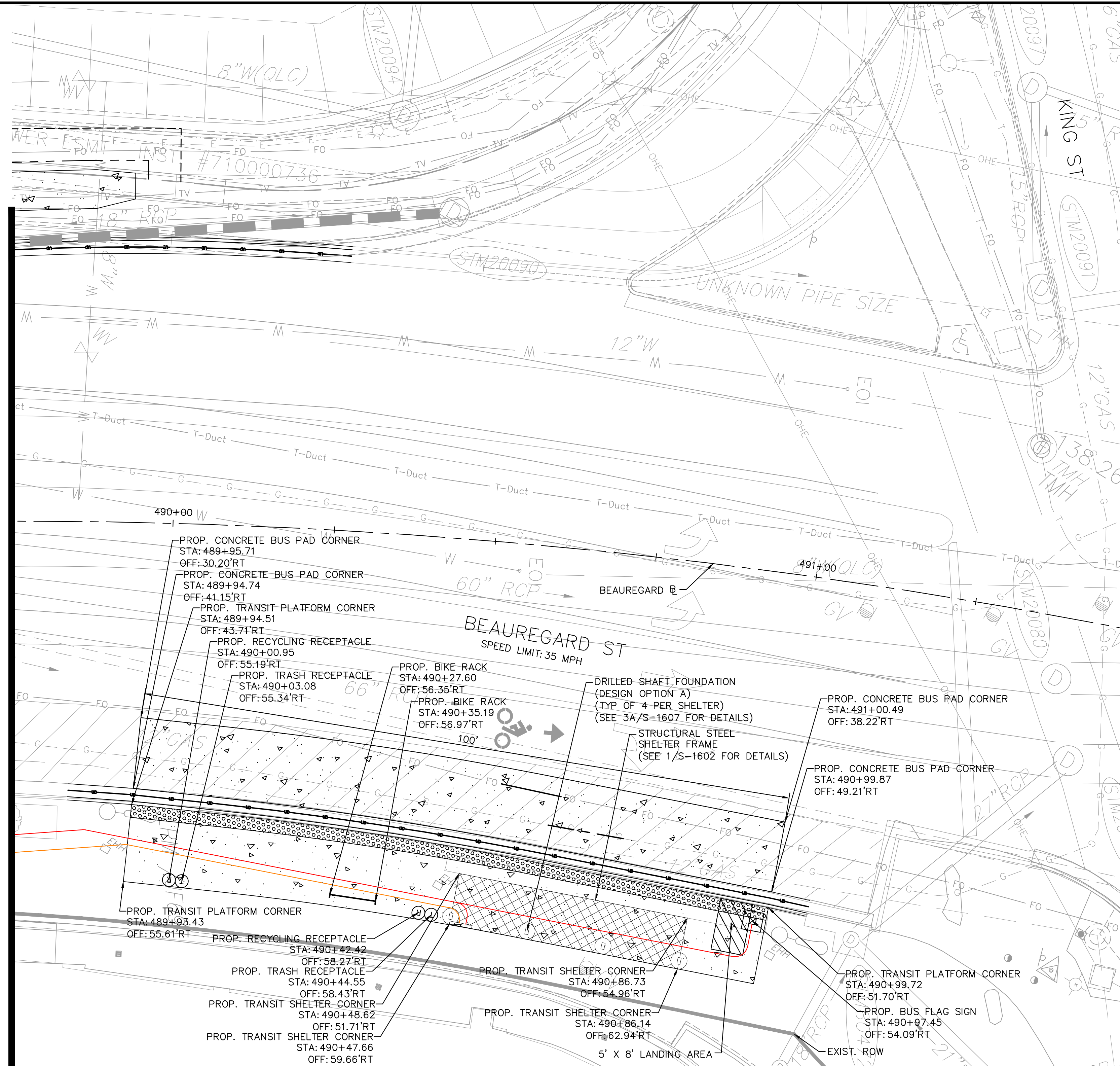
ALEXANDRIA PROJECT NO. 110104122	DATE OF PLAN ISSUANCE: N/A
CONSULTANT PROJECT ID: N/A	DESIGNED BY: MAT. DATE: 4/5/24
	DRAWN BY: AUB. DATE: 4/5/24
	CHECKED BY: EJD. DATE: 4/5/24
	APPROVED BY: _____ DATE: _____

TRANSIT STATION PLAN
- BEAUREGARD STREET
AT KING STREET

SHEET
 C-1714
 SCALE 1" = 10'

Plotted By: Waring, Megan Sheet Set: West End Transitway - Phase 1 Layout: C-1715 TRANSIT STATION PLAN - BEAUREGARD STREET AT KING STREET August 15, 2024 03:07:04pm K:\NVA_Transit\110104122_West End Transitway Design\CADD\Plans\Sheets\TRANSIT STATION PLAN BEAUREGARD.dwg

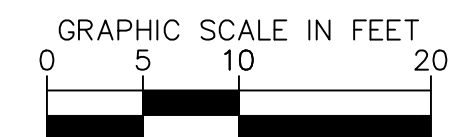
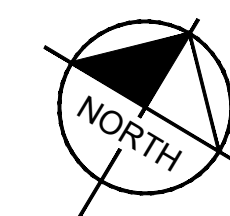
MATCHLINE STA. 489+75 SEE SHEET C-1714



NOTES:

1. DETECTABLE WARNING SURFACE SHALL BE 2' WIDE ARMOR-TILE CAST IN PLACE OR APPROVED EQUAL, DARK GREY (FEDERAL COLOR NO. 36118).
2. STUB OUT LOCATIONS SHOWN FOR POWER AND COMMUNICATIONS CONDUIT ARE SCHEMATIC ONLY. FINAL LOCATION FOR STUB OUTS TO BE FIELD VERIFIED AND APPROVED BY THE CITY PROJECT OFFICER PRIOR TO INSTALLATION.
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- LEGEND:**
- PROP. 2" ELEC. CONDUIT —
 - PROP. 2" COMM. CONDUIT —
 - PROP. ELEC. JUNCTION BOX
 - PROP. COMM. JUNCTION BOX
 - ELECTRIC METER M



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

TRANSIT STATION PLAN
 - BEAUREGARD STREET
 AT KING STREET

SHEET
 C-1715
 SCALE 1" = 10'

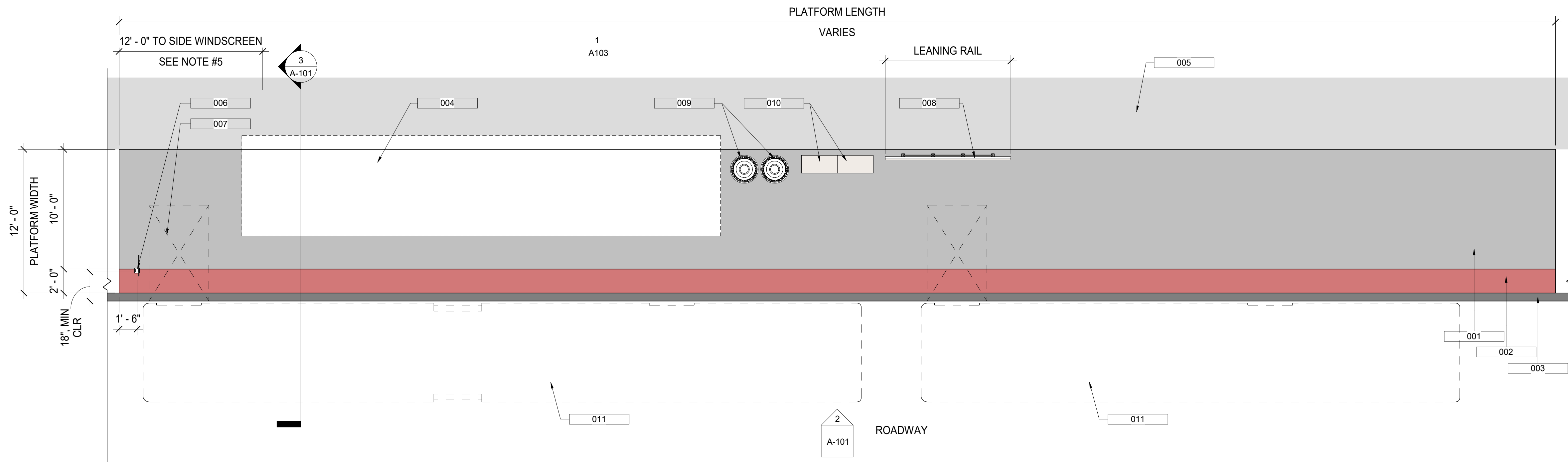
90% DESIGN PHASE



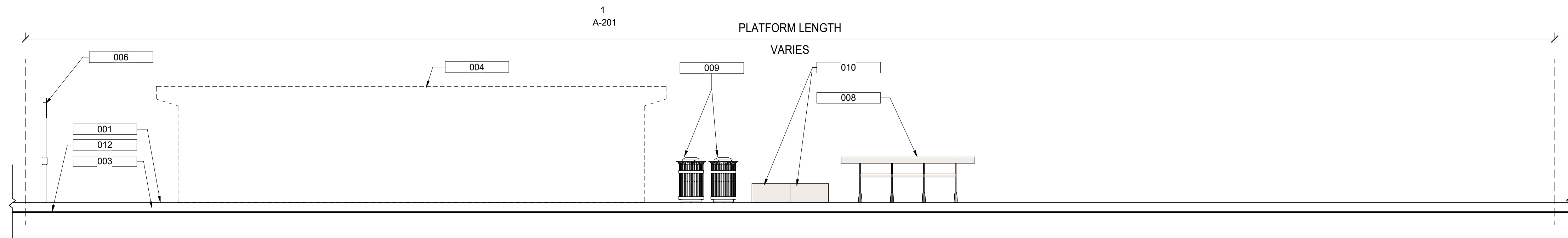
CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

REVISIONS	DESCRIPTION
DATE	BY

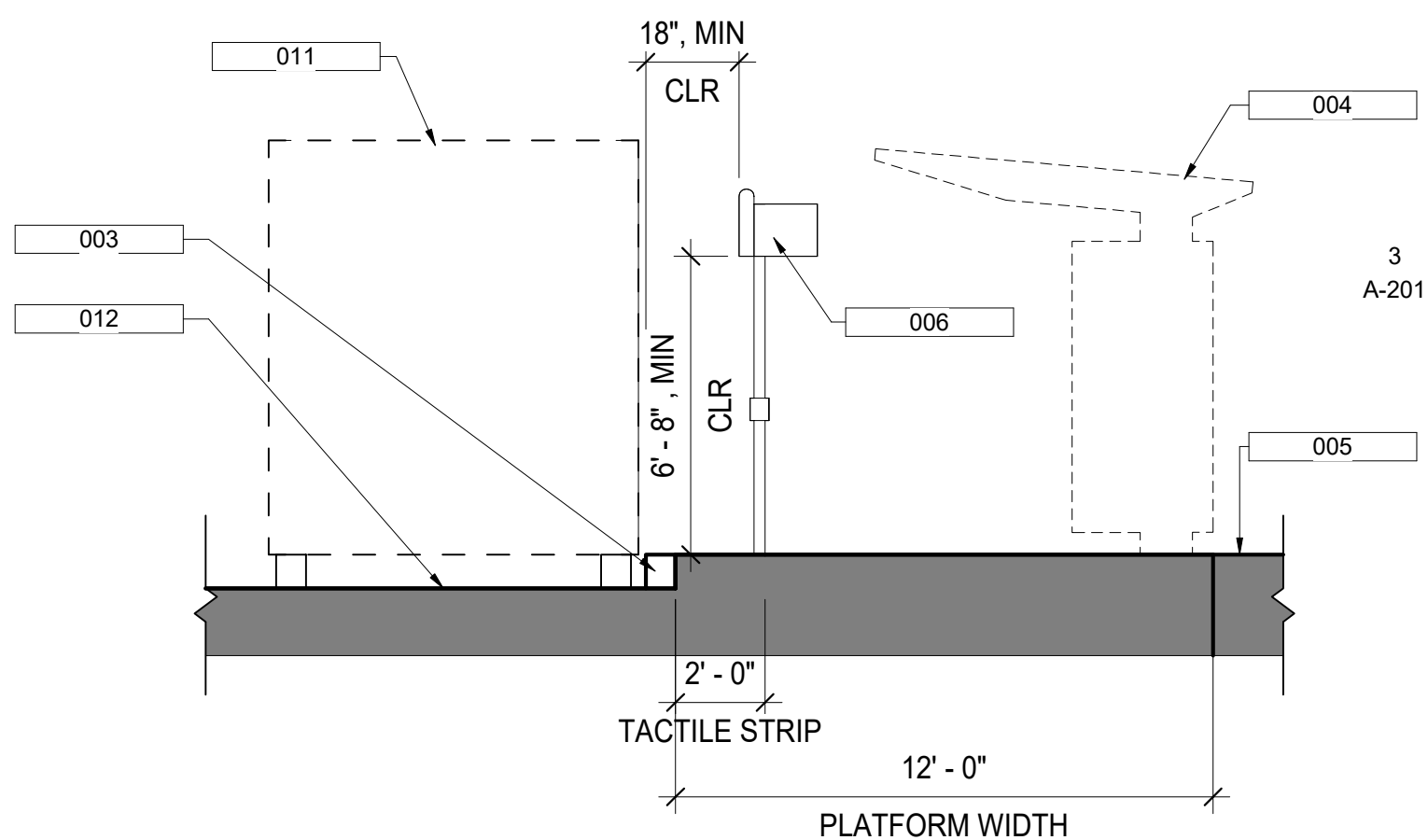
ALEXANDRIA PROJECT NO.:	110104122
DATE OF PLAN ISSUANCE:	N/A
CONSULTANT PROJECT ID.:	N/A
DESIGNED BY:	VALUE DATE: 4/5/24
DRAWN BY:	VALUE DATE: 4/5/24
CHECKED BY:	VALUE DATE: 4/5/24
APPROVED BY:	DATE: _____



1 TYPICAL PLATFORM WITH SIDEWALK BEHIND- SITE PLAN
SC: 3/16" = 1'-0"



2 TYPICAL PLATFORM WITH SIDEWALK BEHIND- ROAD ELEVATION
SC: 3/16" = 1'-0"



3 TYPICAL PLATFORM WITH SIDEWALK BEHIND- CROSS SECTION
SC: 1/4" = 1'-0"

NOTES:

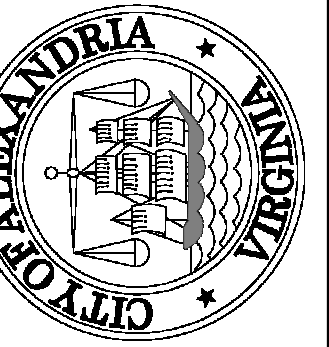
- PLATFORM CURB HEIGHT SHALL BE CONSISTENT AND 9" ABOVE THE ROADWAY LEVEL THROUGHOUT THE PLATFORM AREA.
- CROSS SLOPE SHALL NOT EXCEED 2% THROUGHOUT THE PLATFORM AREA.
- ALL PLATFORM FURNISHING COMPONENTS SHALL MAINTAIN MINIMUM 18" CLEARANCE FROM THE EXTERIOR VERTICAL FACE OF THE PLATFORM CURB.
- PLATFORM SHALL PROVIDE A CLEAR LENGTH OF 96" MINIMUM, MEASURED PERPENDICULAR TO THE CURB OR VEHICLE ROADWAY EDGE, AND A CLEAR WIDTH OF 60" MINIMUM, MEASURED PARALLEL TO THE VEHICLE ROADWAY FOR BOARDING AND ALIGHTING AREAS.
- MAINTAIN 12'-0" CLEARANCE BETWEEN THE EXTERIOR FACE OF THE SHELTER SIDE WINDSCREEN AND THE PLATFORM EDGE ADJACENT TO THE BUS STOP FLAG.
- SHELTER OFFSET FROM THE REAR EDGE OF THE PLATFORM SHALL BE DETERMINED BASED ON STRUCTURAL REQUIREMENTS. PLATFORMS SHALL MAINTAIN 48" WIDE CLEAR CIRCULATION PATH AFTER THE TACTILE AREA WITHOUT ANY CONFLICTS WITH PLATFORM FURNISHING COMPONENTS THROUGHOUT THE PLATFORM. PROVIDE 72" WIDE CLEAR CIRCULATION PATH WHEREVER POSSIBLE.
- SHELTER OUTLINE IS SCHEMATIC DRAWING ILLUSTRATING THE GENERAL OUTLINE OF THE SHELTER IN RELATION TO THE PLATFORM. REFER TO ENLARGED AND DETAIL DRAWINGS FOR MORE INFORMATION.
- ALL PLATFORM FURNISHING COMPONENTS SHALL MAINTAIN 80" VERTICAL CLEARANCE FROM THE FINISHED FLOOR THROUGHOUT THE PLATFORM AREA.
- REFER TO CIVIL DRAWINGS FOR PLATFORM GRADING, LONGITUDINAL SLOPES, CROSS SLOPES, SIDEWALKS, AND TRANSITION AREAS.
- REFER TO UTILITTY DRAWINGS FOR UTILITIES AT PLATFORMS.
- REFER TO COMM DRAWINGS FOR ELECTRONIC DESIGN ITEMS.
- REFER TO LIGHTING DRAWINGS FOR ROADWAY LIGHTING.

LIST OF PLATFORMS WITH SIDEWALK BEHIND:

STOP LOCATION	PLATFORM DIMENSIONS (L x W)
NORTH BEAUREGARD ST & KING ST- NB	100' X 12'
NORTH BEAUREGARD ST & KING ST- SB	120' X 12'
NORTH BEAUREGARD ST & WEST BRADDOCK RD- NB	120' X 12'
NORTH BEAUREGARD ST & FILLMORE AVE- SB	120' X 12'
SANGER AVE & NORTH BEAUREGARD ST- WB	80' X 12'
NORTH VAN DORN ST & SANGER AVE- NB	80' X 12'
NORTH VAN DORN ST & HOLMES RUN PARKWAY- NB	100' X 14'
NORTH VAN DORN ST & HOLMES RUN PARKWAY- SB	90' X 12'
SOUTH VAN DORN ST & SOUTH PICKETT ST- NB	110' X 12'
SOUTH VAN DORN ST & SOUTH PICKETT ST- SB	120' X 12'

KEYNOTE LEGEND	
KEY NUMBER	DESCRIPTION
001	CONCRETE PLATFORM
002	24" WIDE TACTILE WARNING STRIP
003	9" HIGH CONCRETE CURB
004	TRANSIT SHELTER GENERAL OUTLINE, SEE A-103 & A-107
005	SIDEWALK
006	BUS STOP FLAG
007	8' X 5' BUS LOADING ZONE
008	LEAN RAIL
009	TRASH/RECYCLE RECEPTACLES
010	OUTDOOR BENCH
011	BUS
012	ROADWAY

60% DESIGN PHASE



CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

REVISIONS	DESCRIPTION
DATE BY	

ALEXANDRIA PROJECT NO.:	110104122
DATE OF PLAN ISSUANCE:	07/12/24
CONSULTANT PROJECT ID.:	N/A
DESIGNED BY:	AD. DATE: 11/15/23
DRAWN BY:	AD. DATE: 12/06/23
CHECKED BY:	PD. DATE: 12/12/23
APPROVED BY:	DP. DATE: 12/14/23

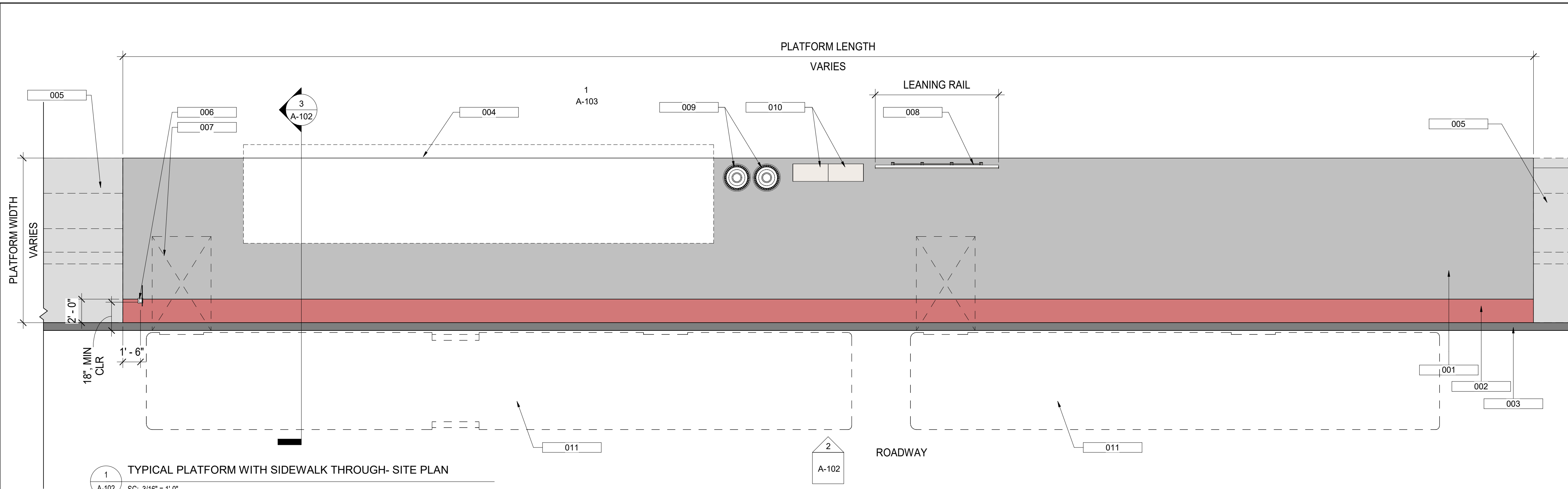
WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

TYPICAL PLATFORM WITH SIDEWALK BEHIND

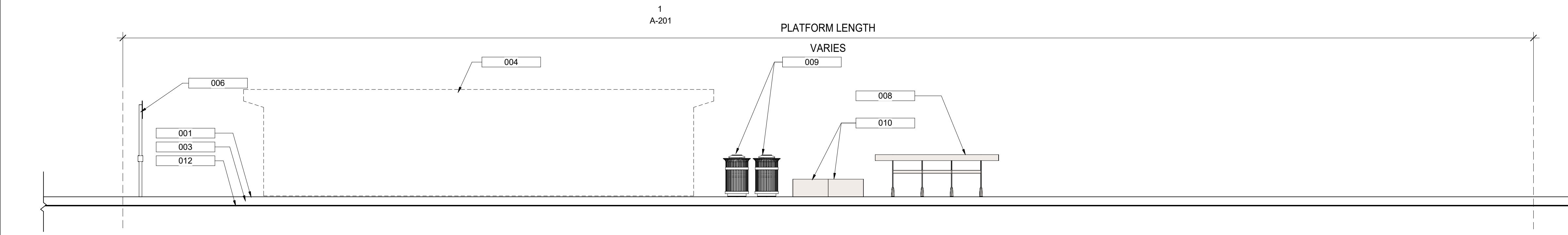


SHEET A-101

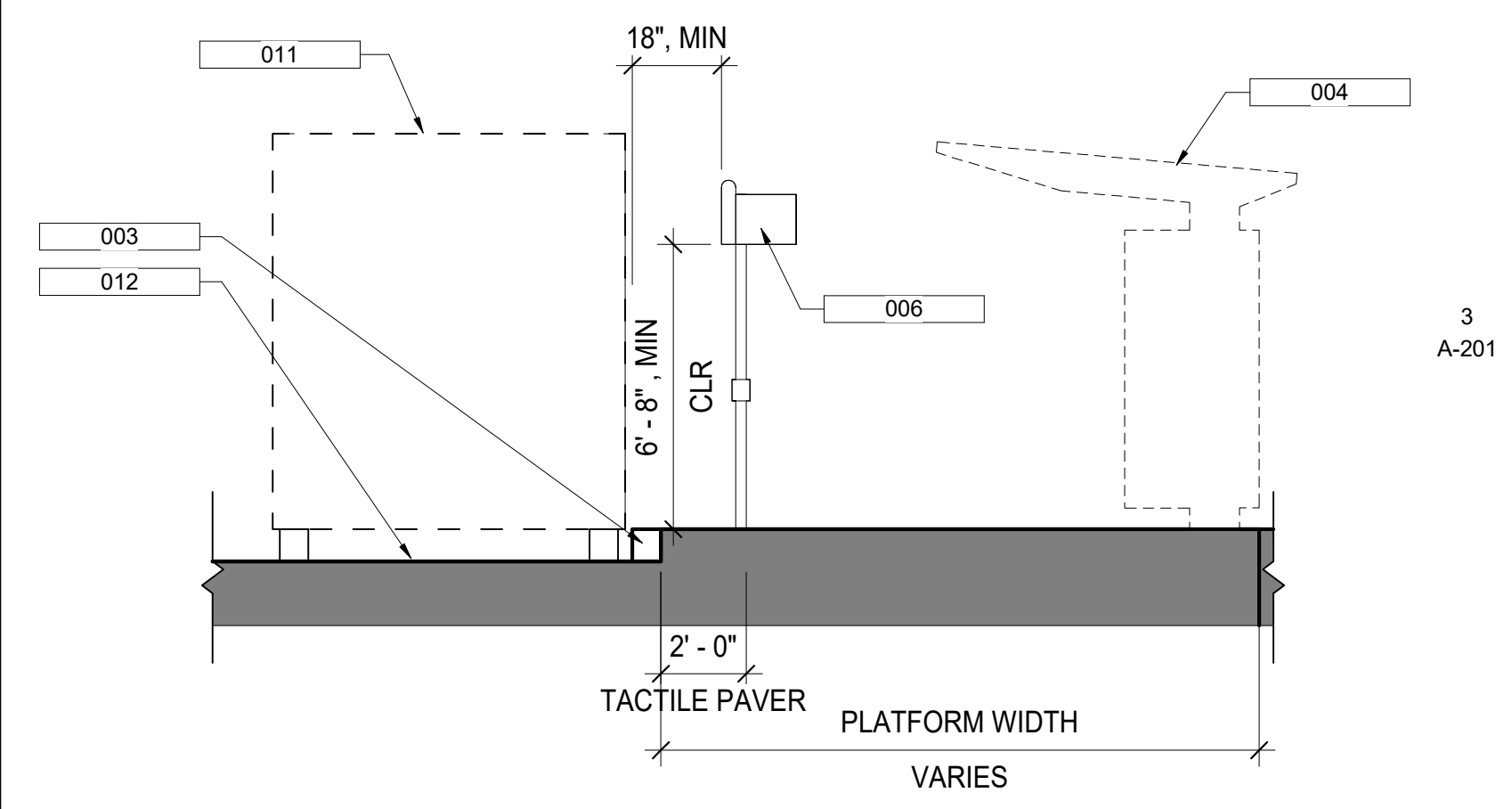
SCALE AS INDICATED



1 TYPICAL PLATFORM WITH SIDEWALK THROUGH- SITE PLAN
 A-102 SC: 3/16" = 1'-0"



2 TYPICAL PLATFORM WITH SIDEWALK THROUGH- ROAD ELEVATION
 A-201 SC: 3/16" = 1'-0"



3 TYPICAL SECTION WITH SIDEWALK THROUGH- CORSS SECTION
 A-102 SC: 1/4" = 1'-0"

NOTES:


1. PLATFORM CURB HEIGHT SHALL BE CONSISTENT AND 9" ABOVE THE ROADWAY LEVEL THROUGHOUT THE PLATFORM AREA.
2. CROSS SLOPE SHALL NOT EXCEED 2% THROUGHOUT THE PLATFORM AREA.
3. ALL PLATFORM FURNISHING COMPONENTS SHALL MAINTAIN MINIMUM 18" CLEARANCE FROM THE EXTERIOR VERTICAL FACE OF THE PLATFORM CURB.
4. PLATFORM SHALL PROVIDE A CLEAR LENGTH OF 96" MINIMUM, MEASURED PERPENDICULAR TO THE CURB OR VEHICLE ROADWAY EDGE, AND A CLEAR WIDTH OF 60" MINIMUM, MEASURED PARALLEL TO THE VEHICLE ROADWAY FOR BOARDING AND ALIGHTING AREAS.
5. MAINTAIN 12'-0" CLEARANCE BETWEEN THE EXTERIOR FACE OF THE SHELTER SIDE WINDSCREEN AND THE PLATFORM EDGE ADJACENT TO THE BUS STOP FLAG.
6. SHELTER OFFSET FROM THE REAR EDGE OF THE PLATFORM SHALL BE DETERMINED BASED ON STRUCTURAL REQUIREMENTS. PLATFORMS SHALL MAINTAIN 48" WIDE CLEAR CIRCULATION PATH AFTER THE TACTILE AREA WITHOUT ANY CONFLICTS WITH PLATFORM FURNISHING COMPONENTS THROUGHOUT THE PLATFORM. PROVIDE 72" WIDE CLEAR CIRCULATION PATH WHEREVER POSSIBLE.
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11. REFER TO COMM DRAWINGS FOR ELECTRONIC DESIGN ITEMS.
12. REFER TO LIGHTING DRAWINGS FOR ROADWAY LIGHTING.

LIST OF PLATFORMS WITH SIDEWALK THROUGH:

STOP LOCATION	PLATFORM DIMENSIONS (L x W)
NORTH BEAUREGARD ST & WEST BRADDOCK RD- SB	110' X 16'
NORTH BEAUREGARD ST & FILLMORE AVE- NB	75' X 14'
NORTH BEAUREGARD ST & RAYBURN AVE- NB	120' X 16'
NORTH BEAUREGARD ST & RAYBURN AVE- SB	120' X 16'
SANGER AVE & NORTH BEAUREGARD ST- EB	80' X 16'
NORTH VAN DORN ST & TANEY AVE- SB	70' X 14'
SOUTH VAN DORN ST & STEVENSON AVE- NB	60' X 14'
SOUTH VAN DORN ST & STEVENSON AVE- SB	120' X 16'

KEYNOTE LEGEND	
KEY NUMBER	DESCRIPTION
001	CONCRETE PLATFORM
002	24" WIDE TACTILE WARNING STRIP
003	9" HIGH CONCRETE CURB
004	TRANSIT SHELTER GENERAL OUTLINE, SEE A-103 & A-107
005	SIDEWALK
006	BUS STOP FLAG
007	8' X 5' BUS LOADING ZONE
008	LEAN RAIL
009	TRASH/RECYCLE RECEPTACLES
010	OUTDOOR BENCH
011	BUS
012	ROADWAY

60% DESIGN PHASE




CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

REVISIONS	DATE	DESCRIPTION

ALEXANDRIA PROJECT NO.: 110104122	DATE OF PLAN ISSUANCE: 07/12/24	CONSULTANT PROJECT ID.: N/A
DESIGNED BY: AD. DATE: 11/15/23	DRAWN BY: AD. DATE: 12/06/23	CHECKED BY: PD. DATE: 12/12/23
APPROVED BY: DP. DATE: 12/14/23		

WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

TYPICAL PLATFORM WITH SIDEWALK THROUGH



SHEET A-102

SCALE AS INDICATED



CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

60% DESIGN PHASE

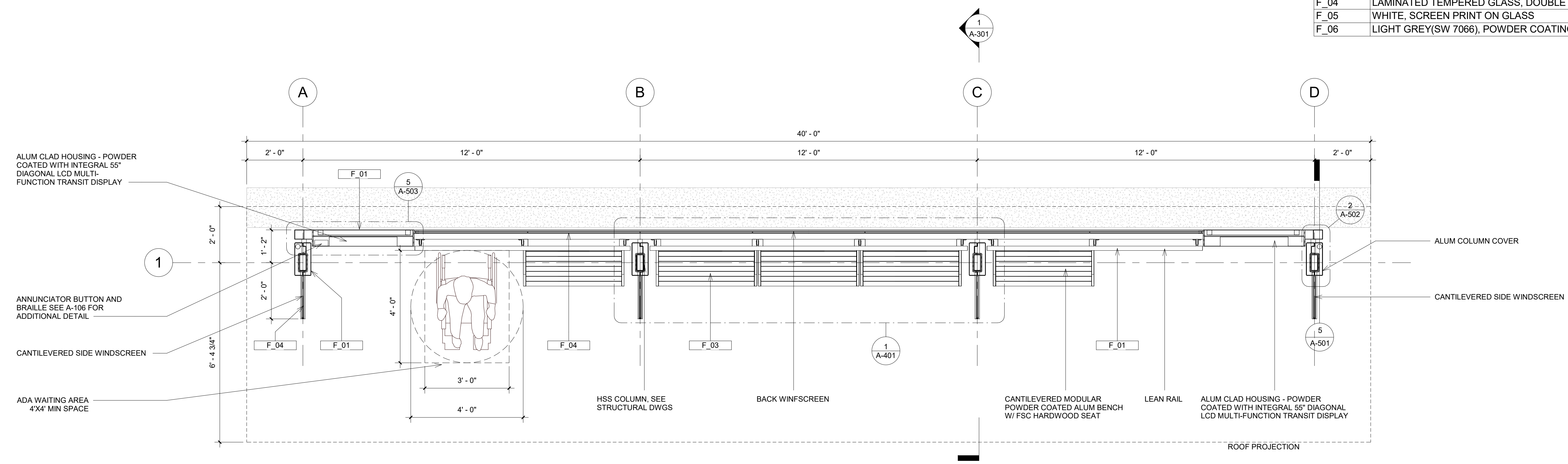
WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

TYPICAL SHELTER PLAN AND ELEVATIONS - ALTERNATIVE 1

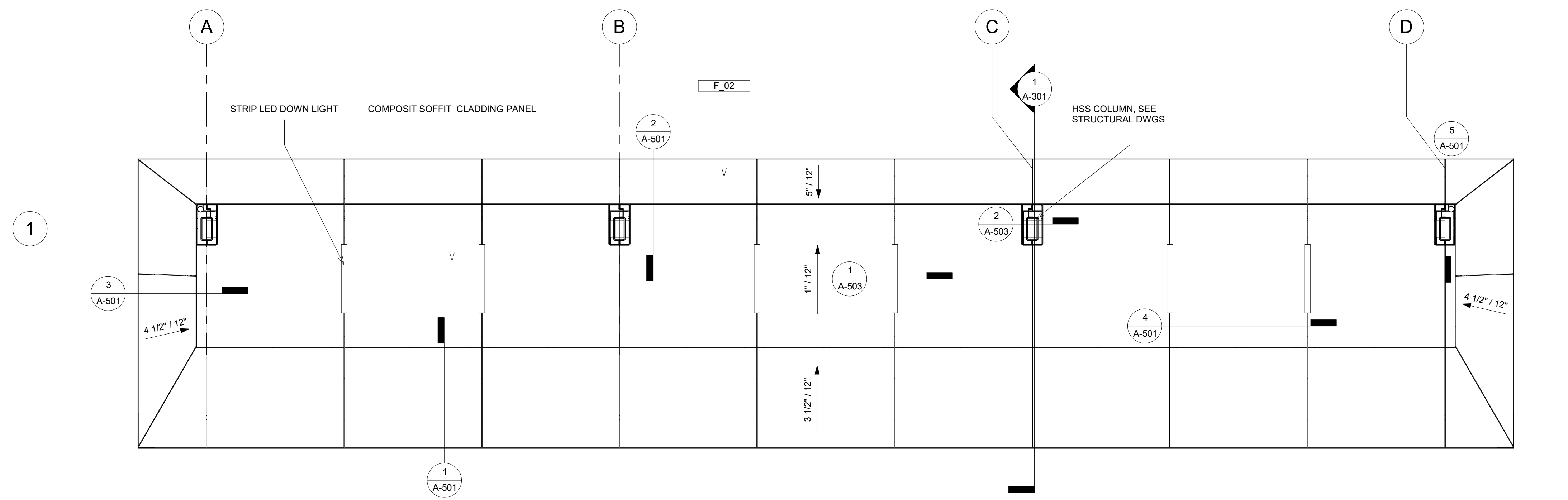
KGP design studio
 architecture transportation urban design planning

SHEET A-103
SCALE 1/2" = 1'-0"

MATERIAL SCHEDULE	
Key Value	Keynote Text
F_01	DARK GREY(SW 6258), POWDER COATING
F_02	LOGHT WOOD COLOR, PRINT AND LAMINATED
F_03	HARD WOOD
F_04	LAMINATED TEMPERED GLASS, DOUBLE LAYER
F_05	WHITE, SCREEN PRINT ON GLASS
F_06	LIGHT GREY(SW 7066), POWDER COATING



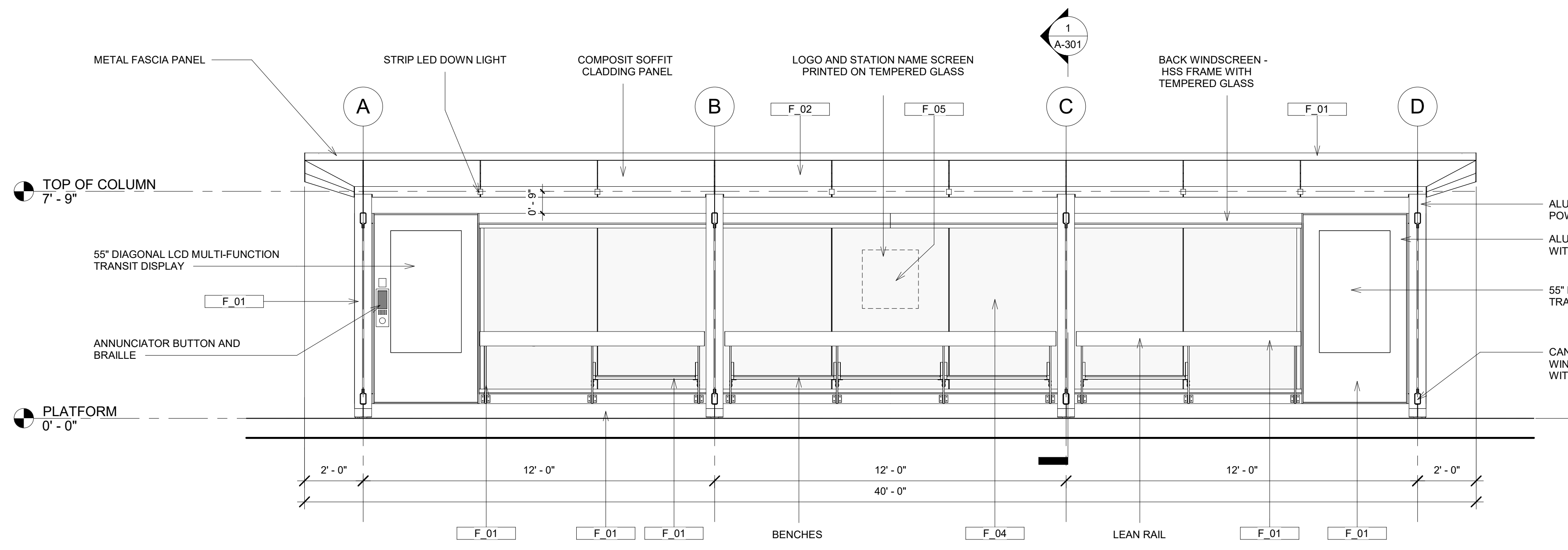
1 TYPICAL SHELTER ALTERNATIVE 1- PLAN
 A-103 SC: 1/2" = 1'-0"



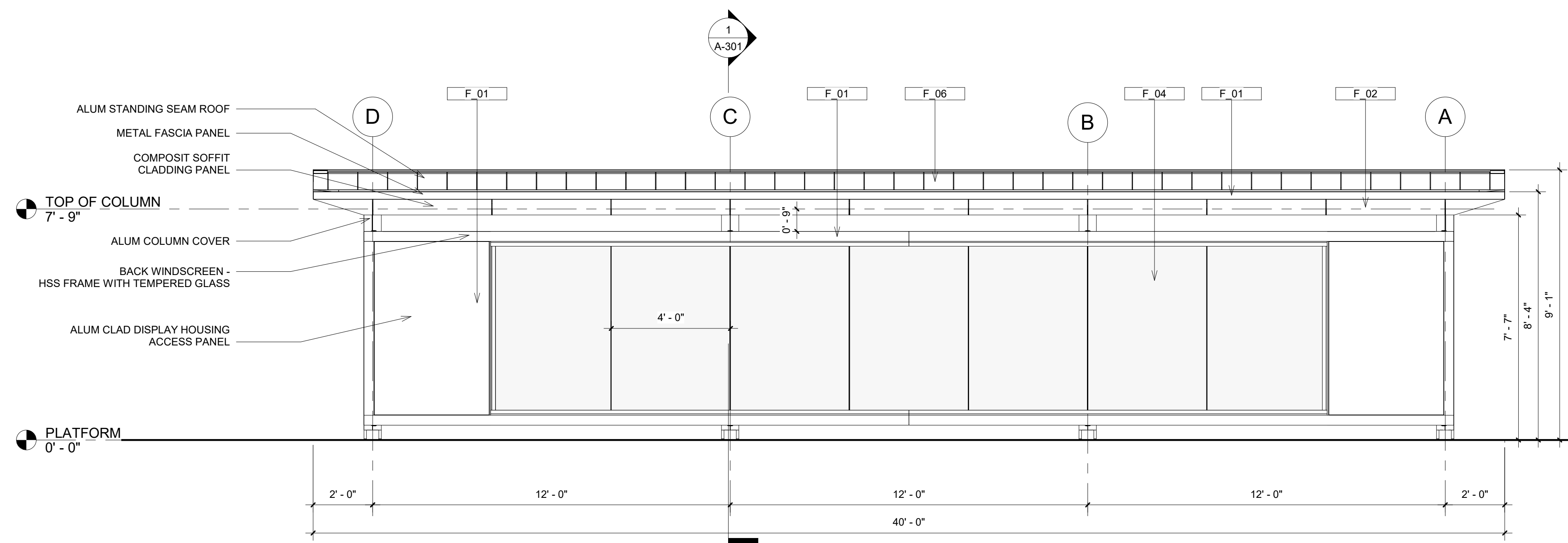
2 PROTOTYPICAL CANOPY - RCP
 A-103 SC: 1/2" = 1'-0"

REVISIONS	
DATE BY	DESCRIPTION

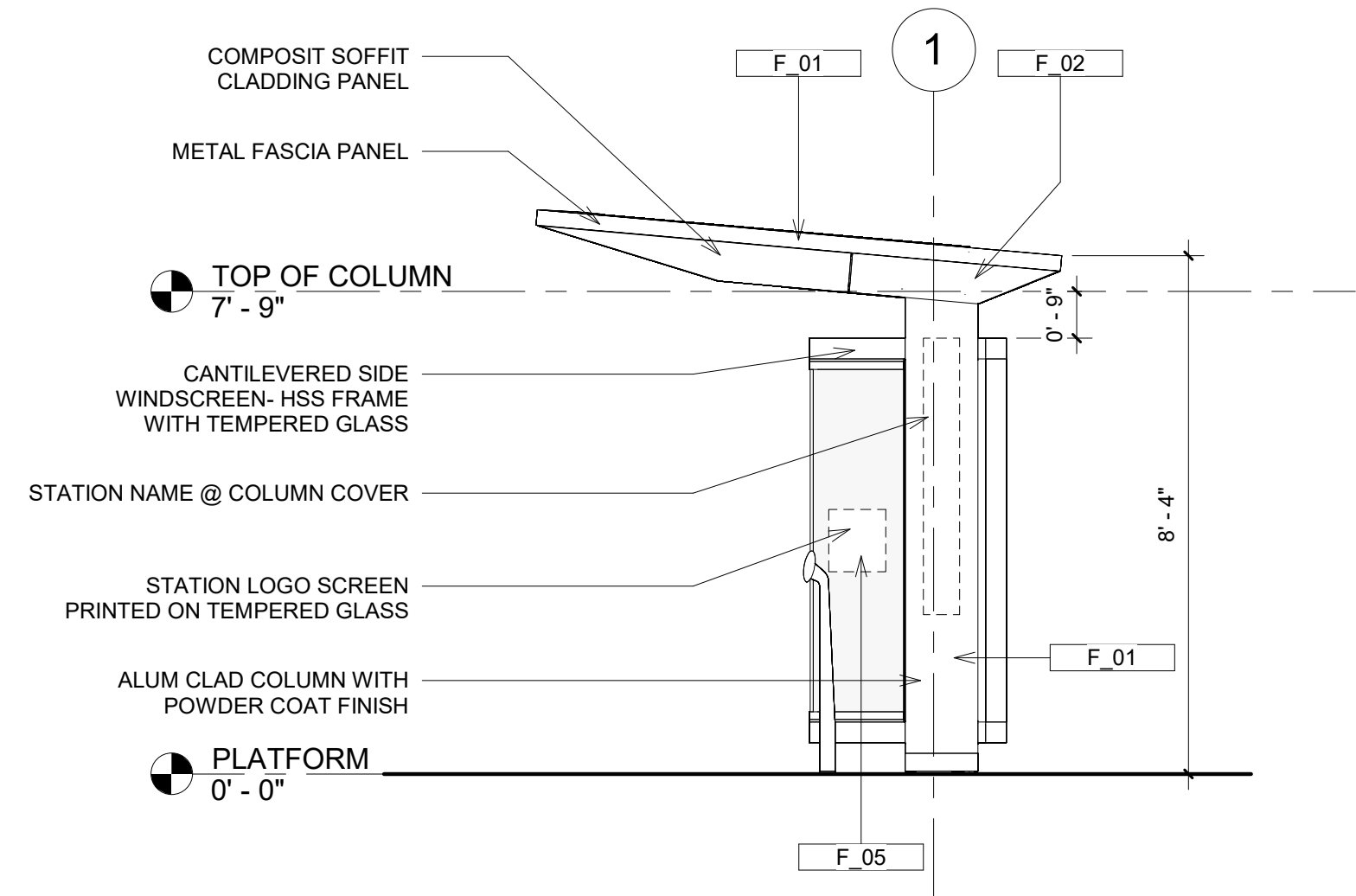
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DATE OF PLAN ISSUANCE:	07/12/24
CONSULTANT PROJECT ID.:	N/A
DESIGNED BY:	TW DATE: 11/15/23
DRAWN BY:	BO DATE: 12/06/23
CHECKED BY:	PD DATE: 12/12/23
APPROVED BY:	DP DATE: 12/14/23



1
A-201
TYPICAL SHELTER ALTERNATIVE 1- FRONT ELEVATION
SC: 3/8" = 1'-0"



2
A-201
TYPICAL SHELTER ALTERNATIVE 1- REAR ELEVATION
SC: 3/8" = 1'-0"




3
A-201
TYPICAL SHELTER ALTERNATIVE 1- SIDE ELEVATION
SC: 3/8" = 1'-0"

NOTE:
See structural drawings for foundation design options.

MATERIAL SCHEDULE	
Key Value	Keynote Text
F_01	DARK GREY(SW 6258), POWDER COATING
F_02	LOGHT WOOD COLOR, PRINT AND LAMINATED
F_03	HARD WOOD
F_04	LAMINATED TEMPERED GLASS, DOUBLE LAYER
F_05	WHITE, SCREEN PRINT ON GLASS
F_06	LIGHT GREY(SW 7066), POWDER COATING

60% DESIGN PHASE




CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
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ALEXANDRIA, VIRGINIA 22313

REVISIONS	
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DESIGNED BY: TW	DATE: 11/15/23	BO. DATE: 12/06/23
DRAWN BY: BO	DATE: 12/12/23	PD. DATE: 12/14/23
CHECKED BY: BO	DATE: 12/12/23	APPROVED BY: BO

TYPICAL SHELTER ELEVATION



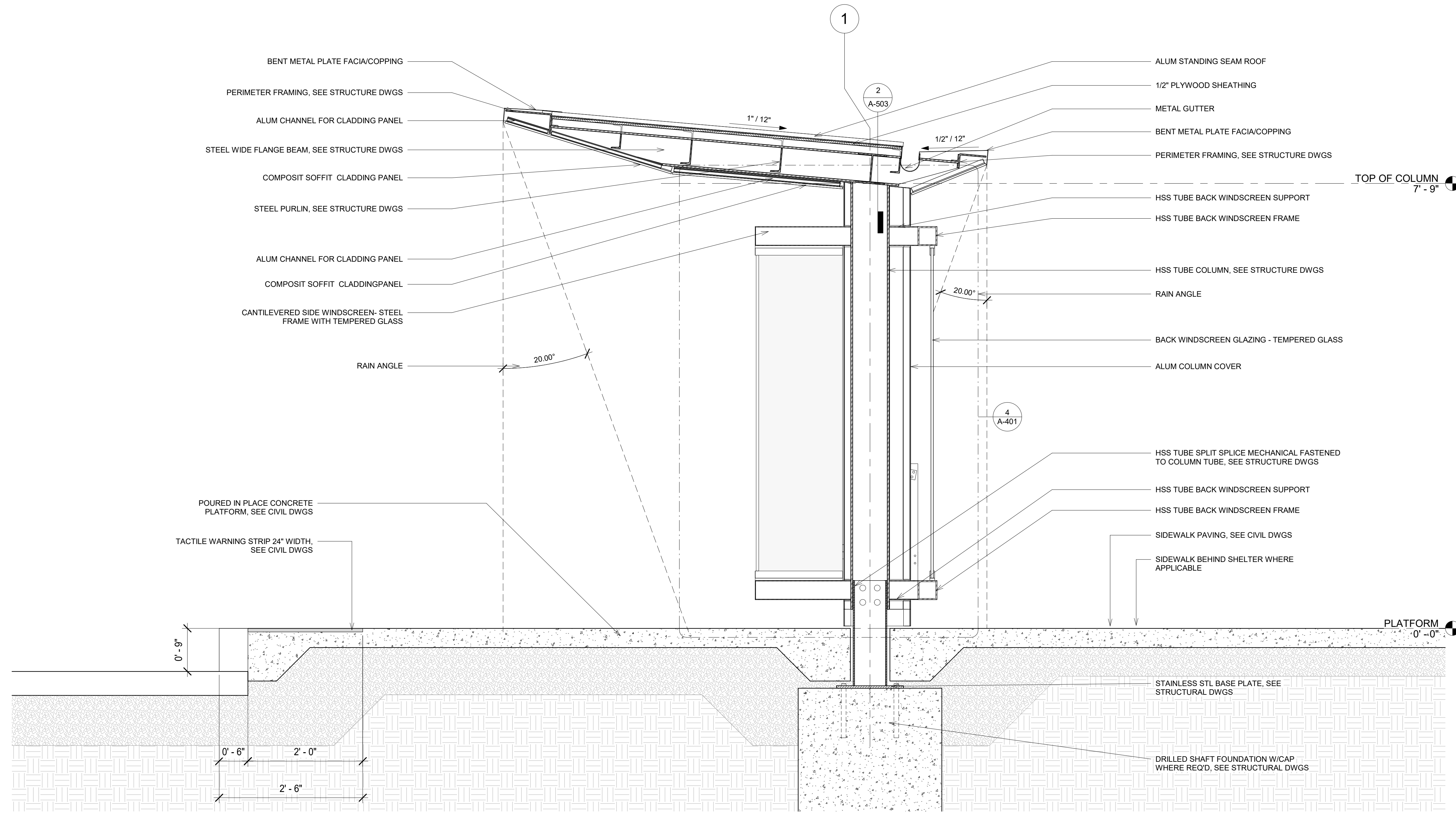
KGP design studio
architecture transportation urban design planning

WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

SHEET A-201

SCALE AS INDICATED

NOTE:
See structural drawings for foundation design options.



1 TYPICAL SHELTER SECTION - ALTERNATIVE 1
A-301 SC: 1" = 1'-0"

60% DESIGN PHASE



CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

TYPICAL SHELTER CROSS SECTION

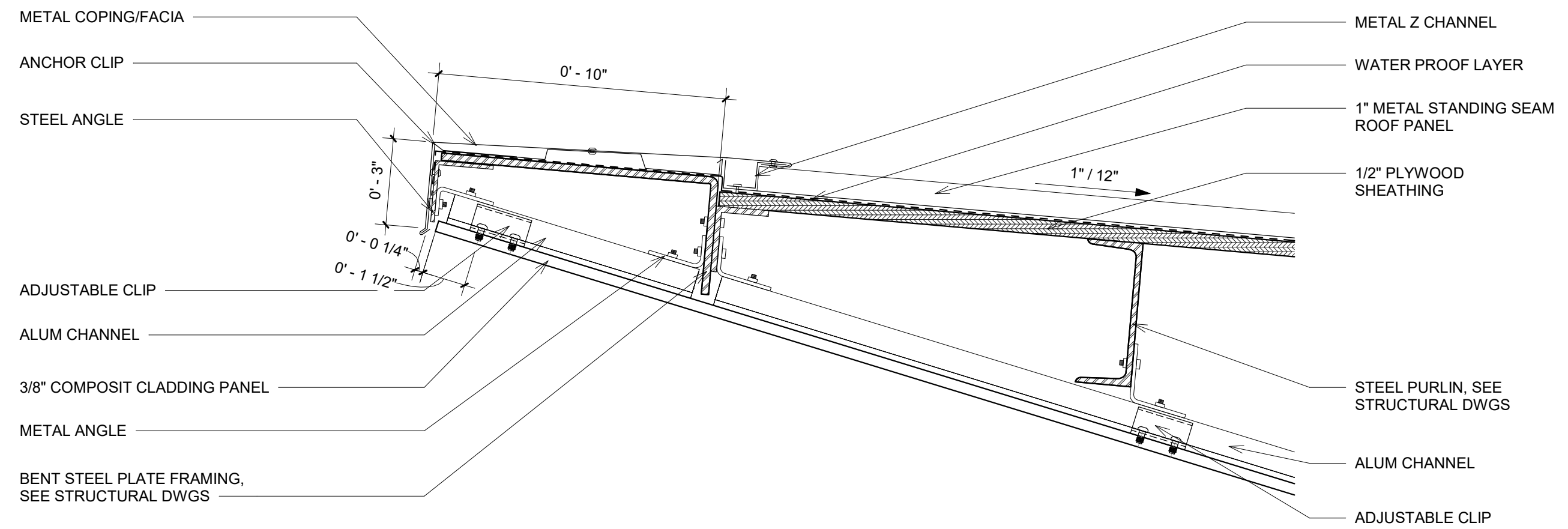


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DATE BY	DESCRIPTION

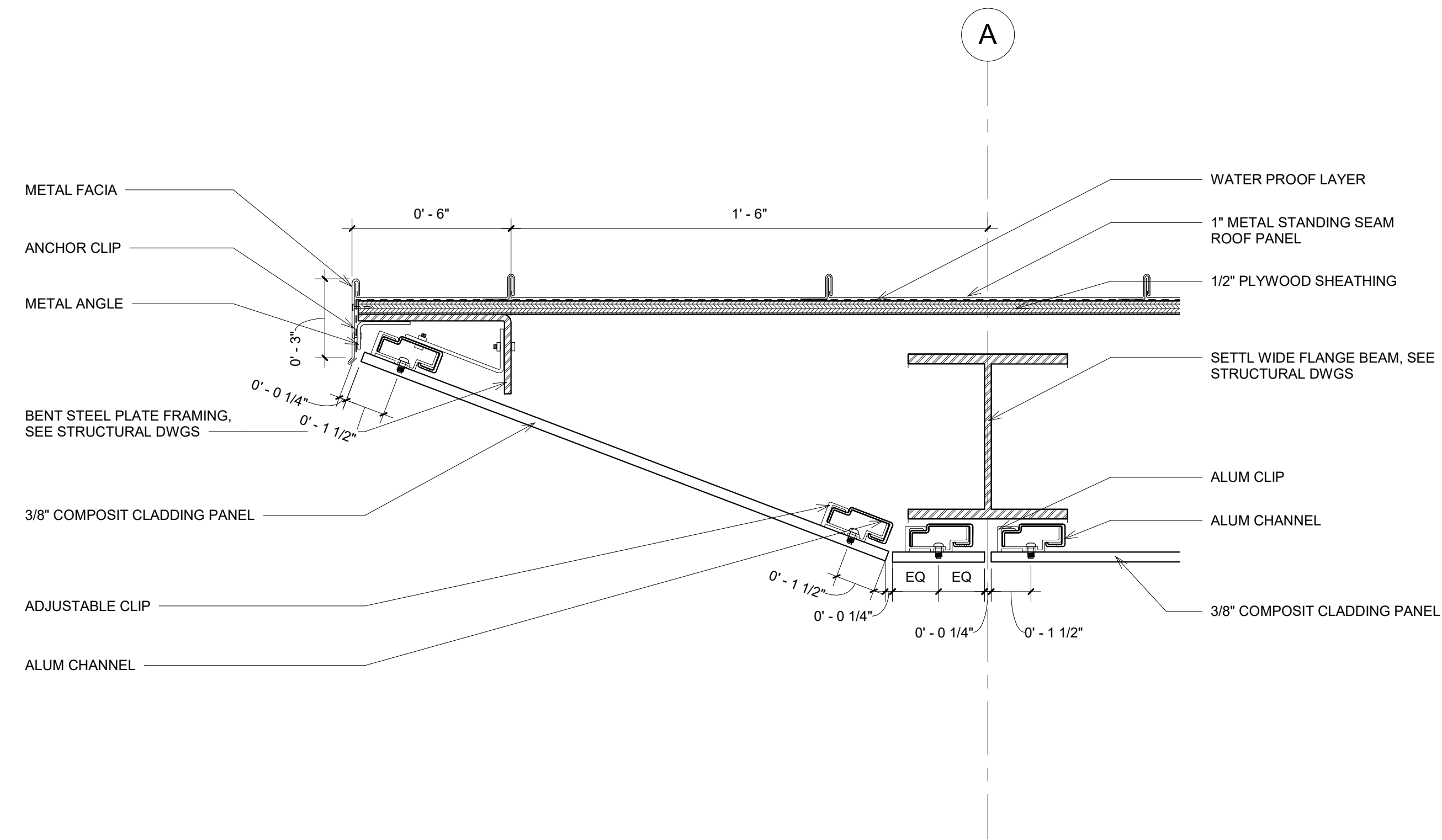
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APPROVED BY:	12/14/23
APPROVER DATE:	

SHEET
A-301

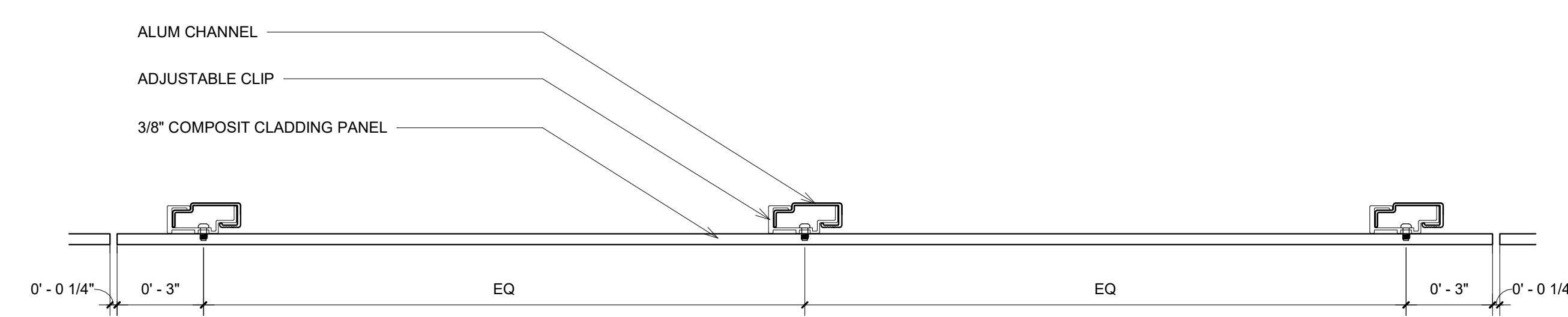
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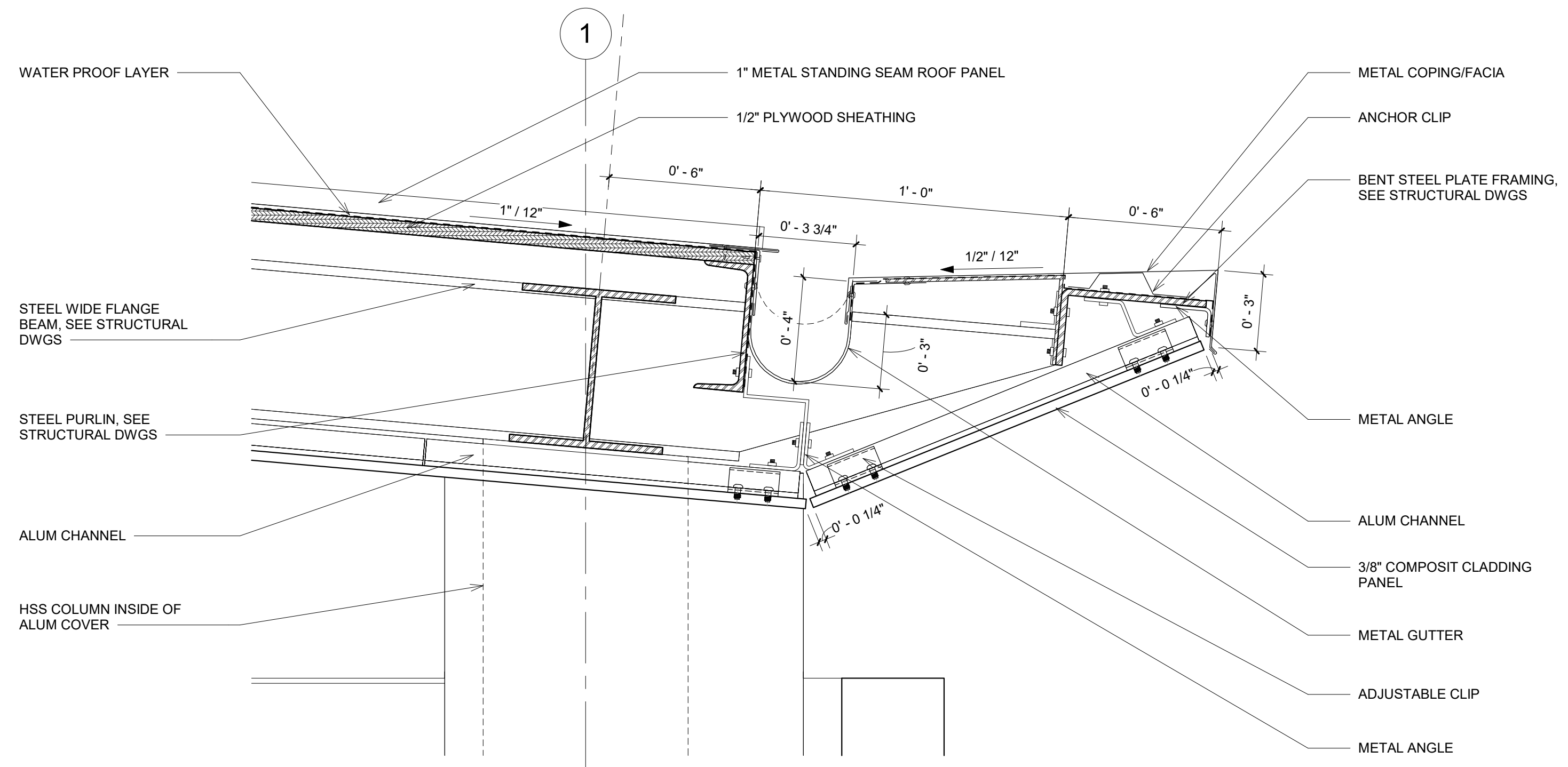
1 DETAIL SECTION - ROOF EDGE - FRONT
A-501 SC: 3" = 1'-0"



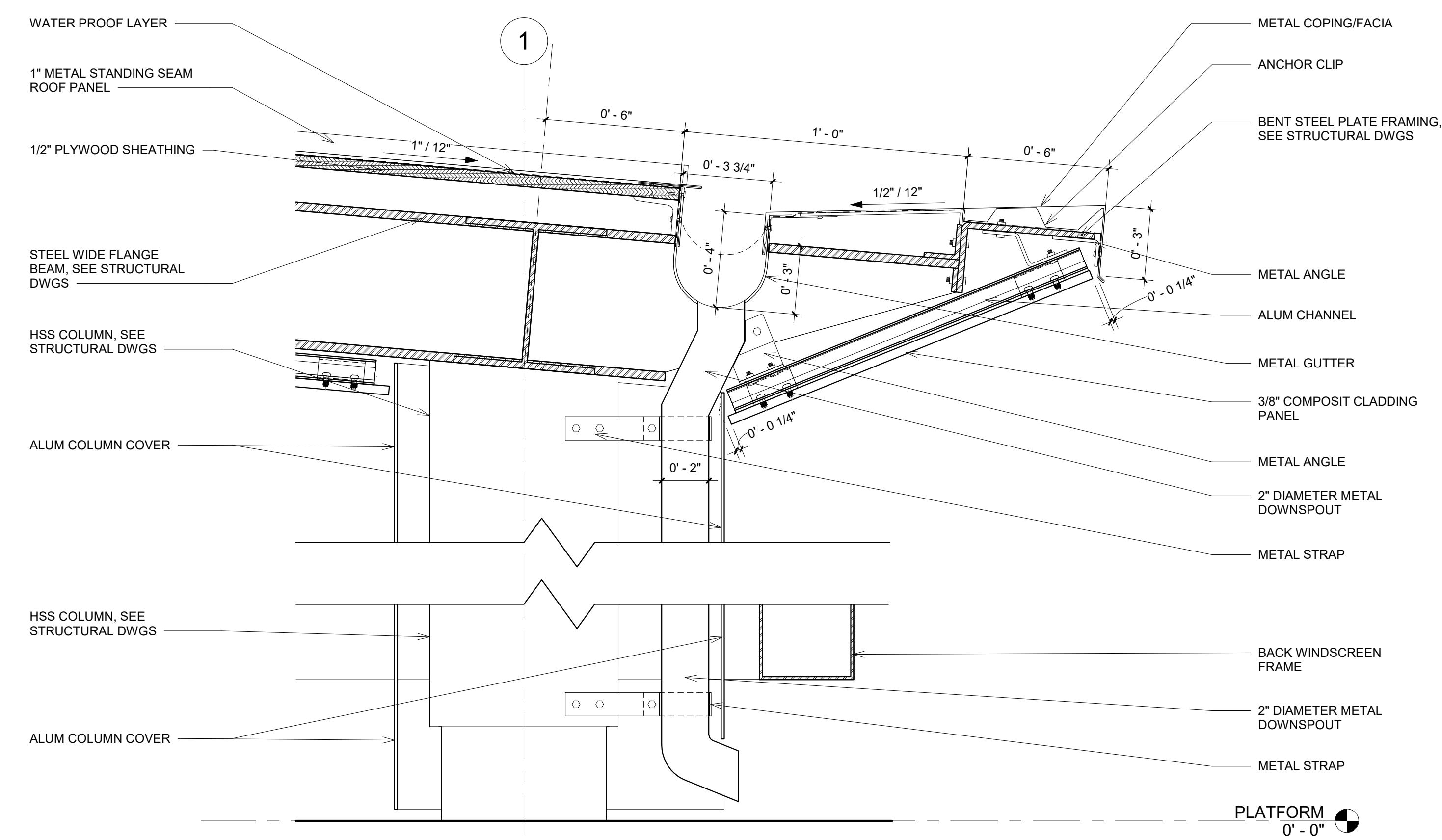
3 DETAIL SECTION - ROOF EDGE - SIDE
A-501 SC: 3" = 1'-0"



4 DETAIL SECTION - SOFFIT CLADDING - BETWEEN BEAMS
A-501 SC: 3" = 1'-0"



2 DETAIL SECTION - ROOF EDGE - BACK
A-501 SC: 3" = 1'-0"



5 DETAIL SECTION - GUTTER AND DOWNSPOUT
A-501 SC: 3" = 1'-0"

60% DESIGN PHASE



CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

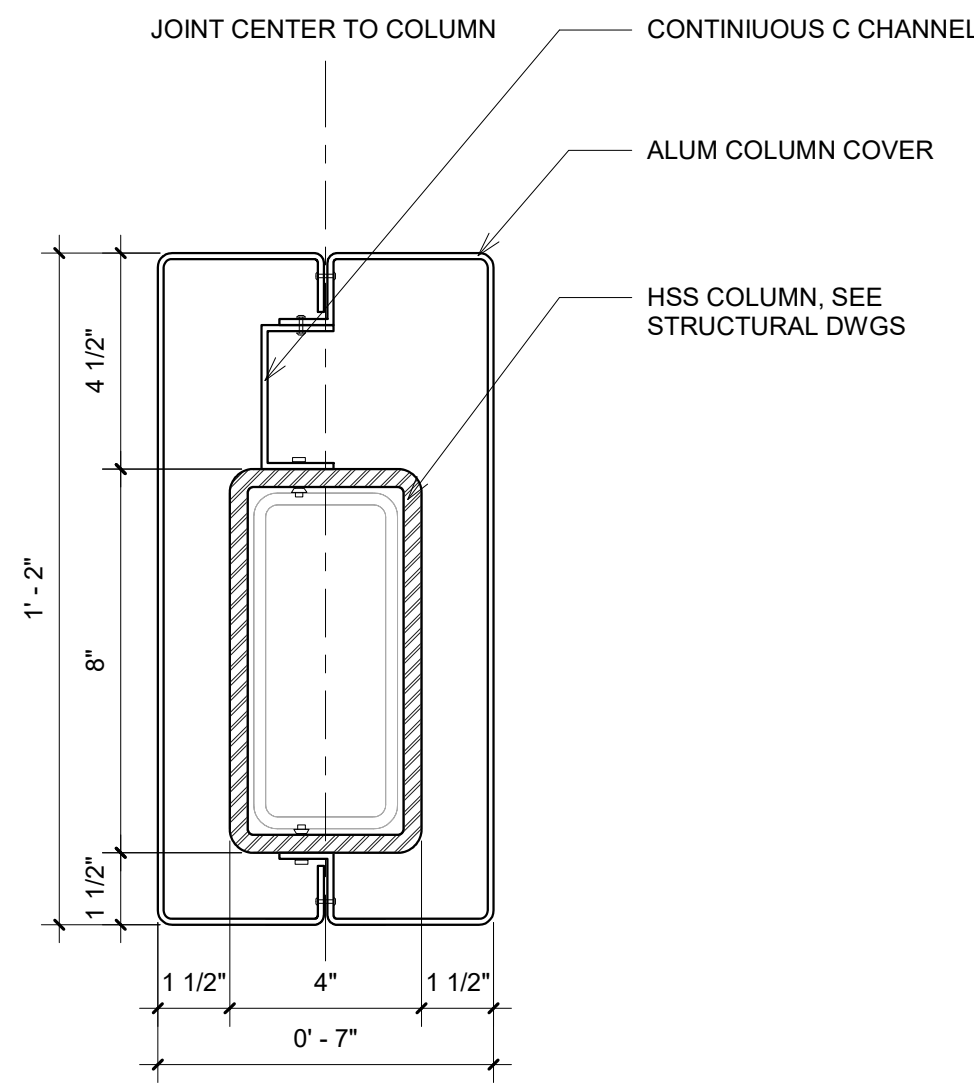
TYPICAL SHELTER DETAIL - ROOF EDGE

SHEET
A-501

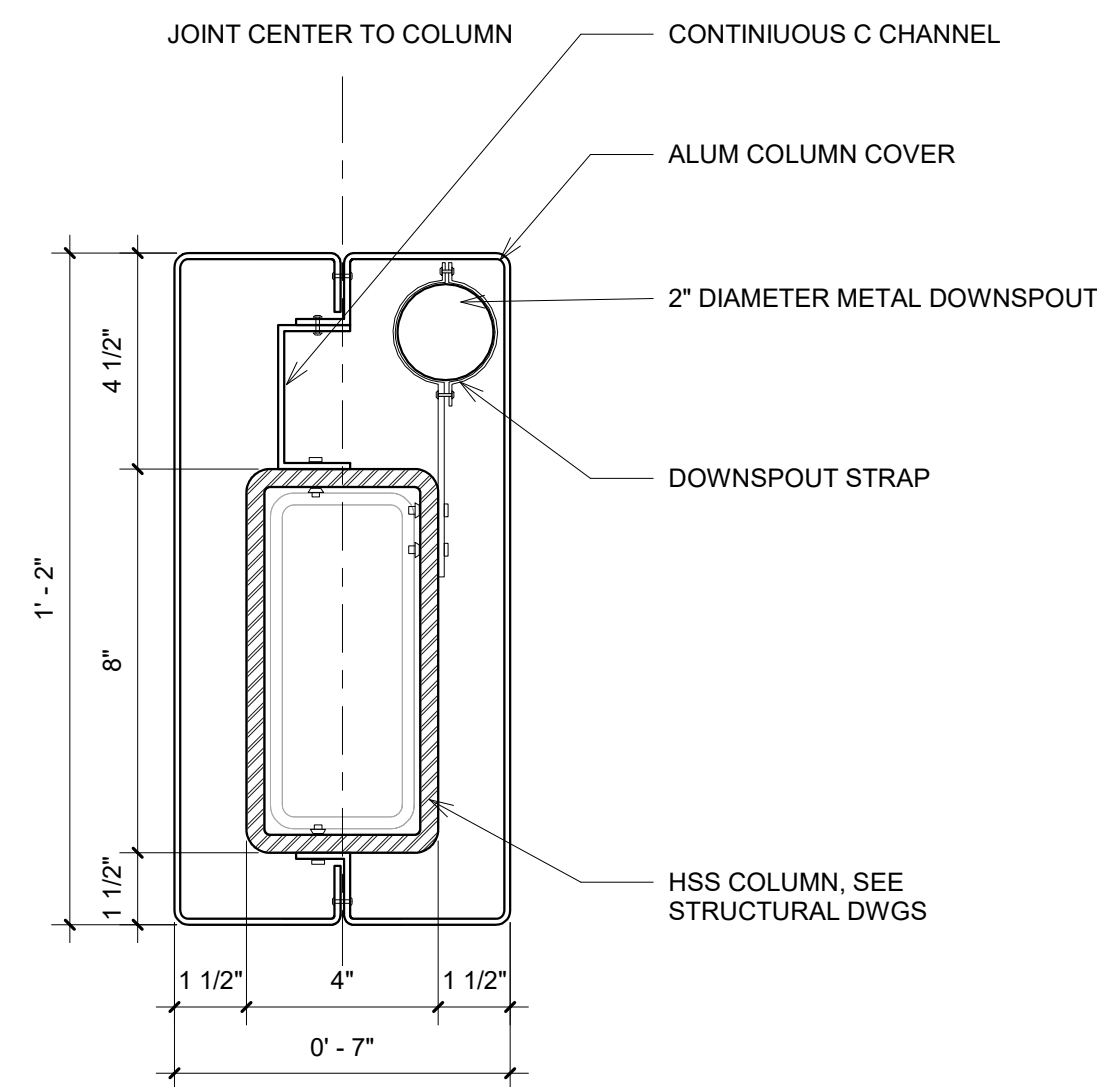
SCALE 3" = 1'-0"

REVISIONS	DESCRIPTION
DATE BY	
11/04/22	ALEXANDRIA PROJECT NO.:
07/12/24	DATE OF PLAN ISSUANCE:
N/A	CONSULTANT PROJECT ID.:
11/15/23	DESIGNED BY: Designer. DATE:
12/06/23	DRAWN BY: Author. DATE:
12/12/23	CHECKED BY: Checker. DATE:
12/14/23	APPROVED BY: Approver. DATE:

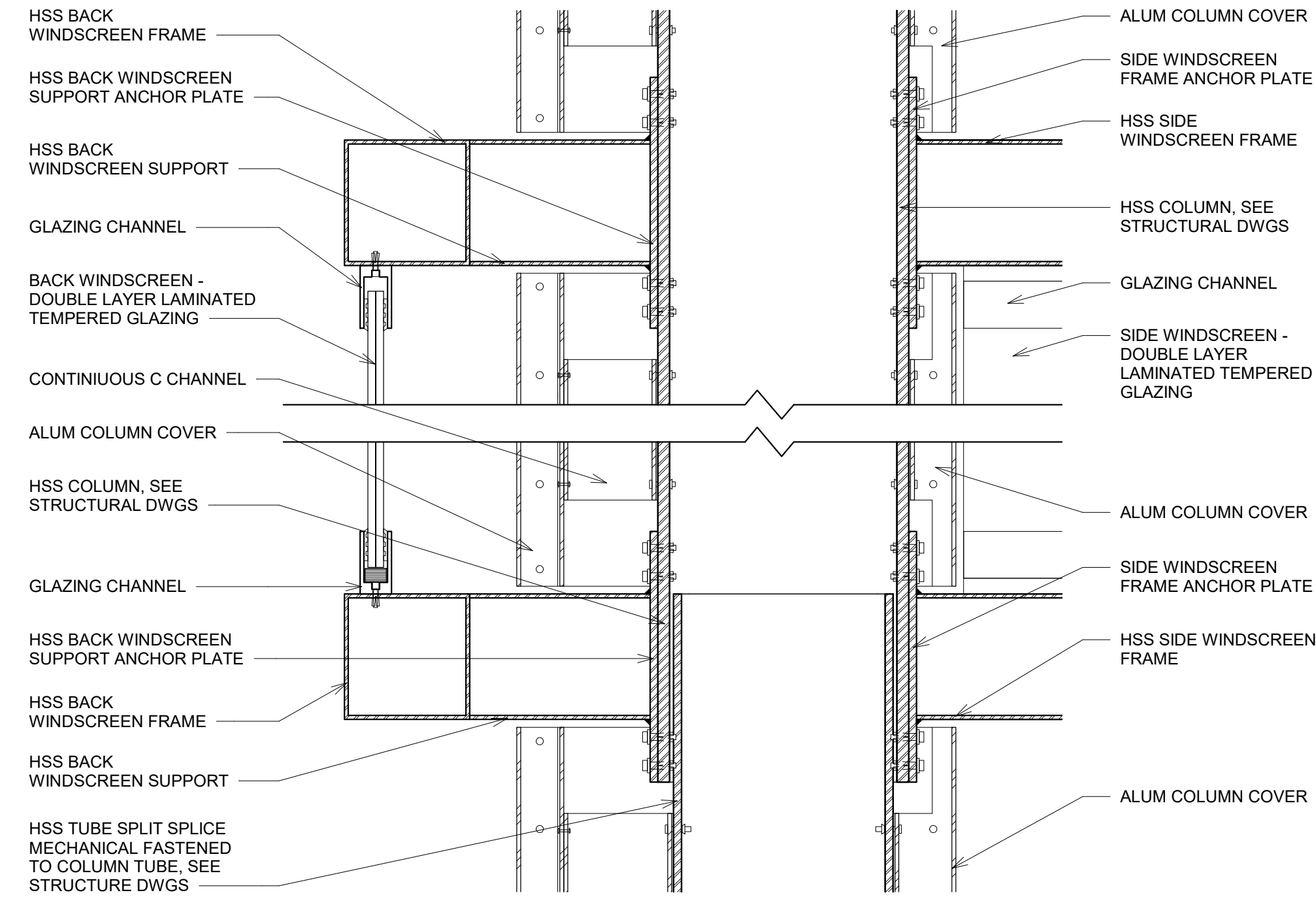




1 TYPICAL SHELTER DETAIL - COLUMN CLADDING1
A-502 SC: 3" = 1'-0"



2 TYPICAL SHELTER DETAIL - COLUMN CLADDING WITH DOWNSPOUT
A-502 SC: 3" = 1'-0"

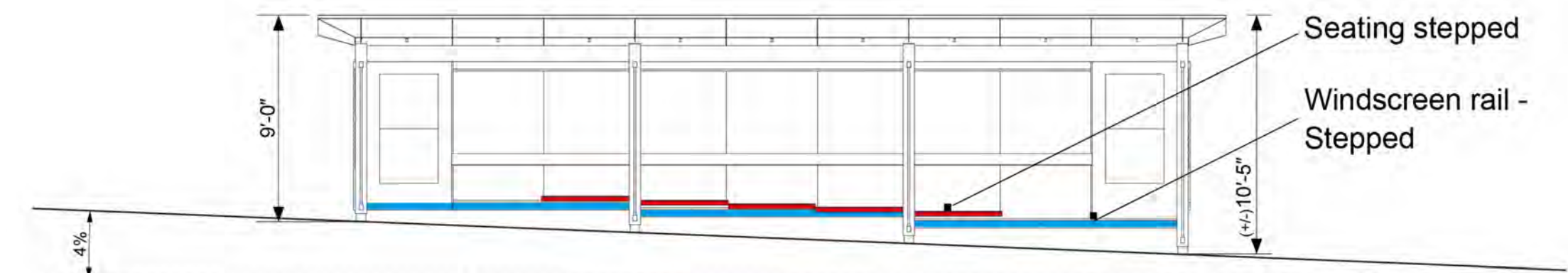


3 DETAIL SECTION - WINDSCREEN CONNECTION
A-502 SC: 3" = 1'-0"



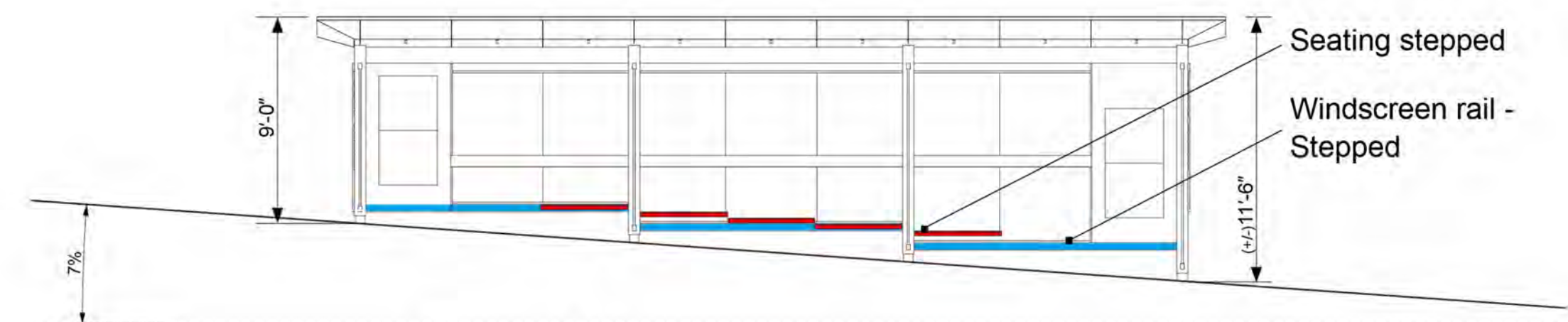
0 to 3%

Under 3% slope - no stepping of lower windscreen/seat rail required. Stepping of 4' -8' seat module may be required.



3 to 5%

Over 3% slope - stepping of lower windscreen/ seat rail as well as 4' seat module is required to maintain a 17" to 19" seat height to satisfy ADA requirements.



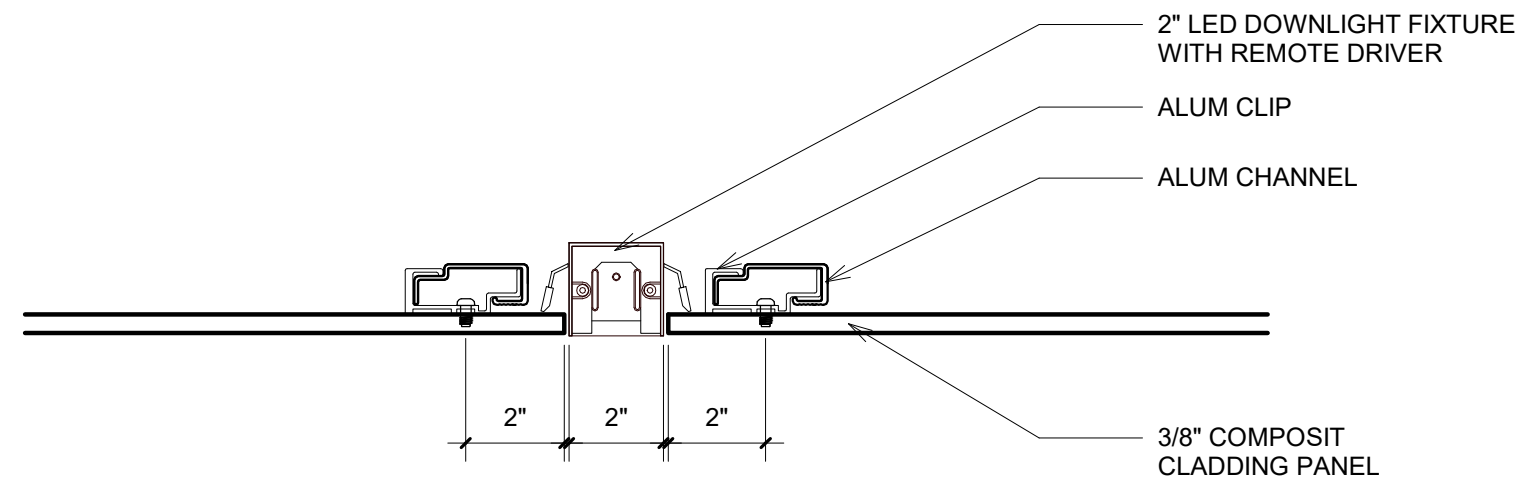
5 to 7%

For the maximum slope of up to 7% - stepping of lower windscreen/seat rail and 4' seat module is required to maintain a 17" to 19" seat height to satisfy ADA requirements.

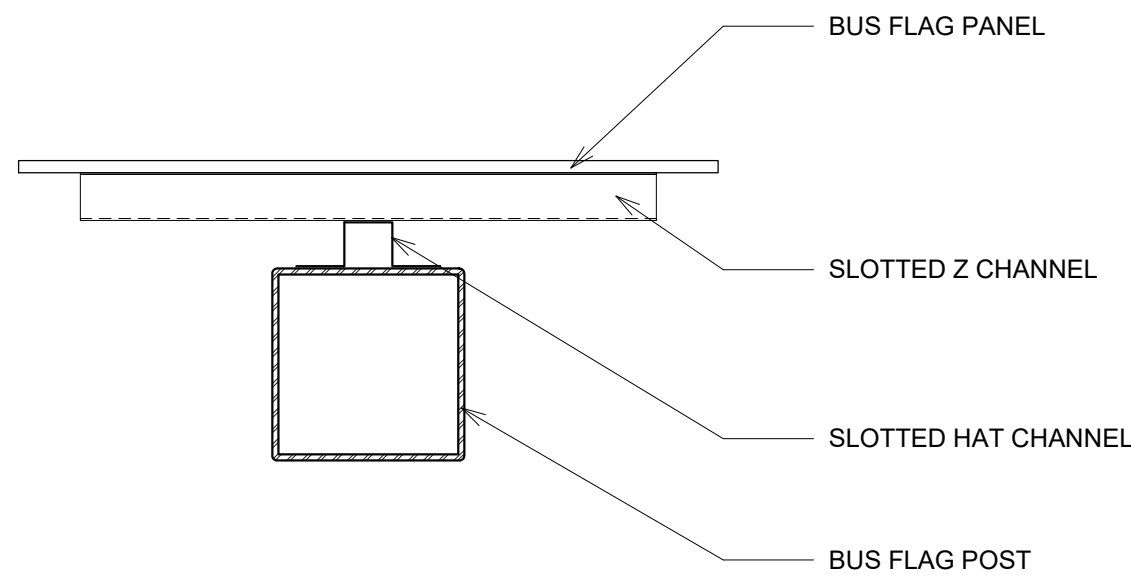


REVISIONS	DESCRIPTION
DATE BY	

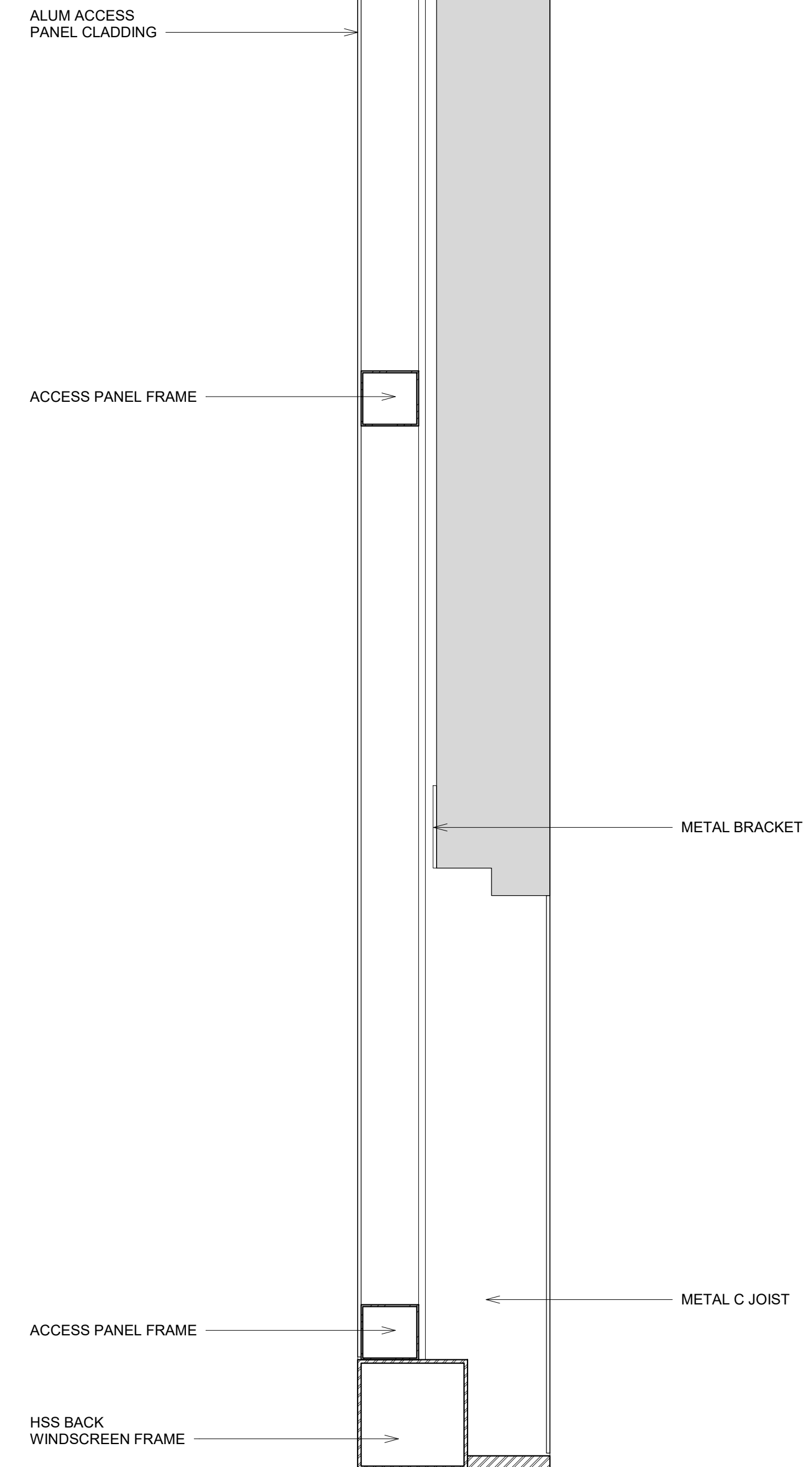
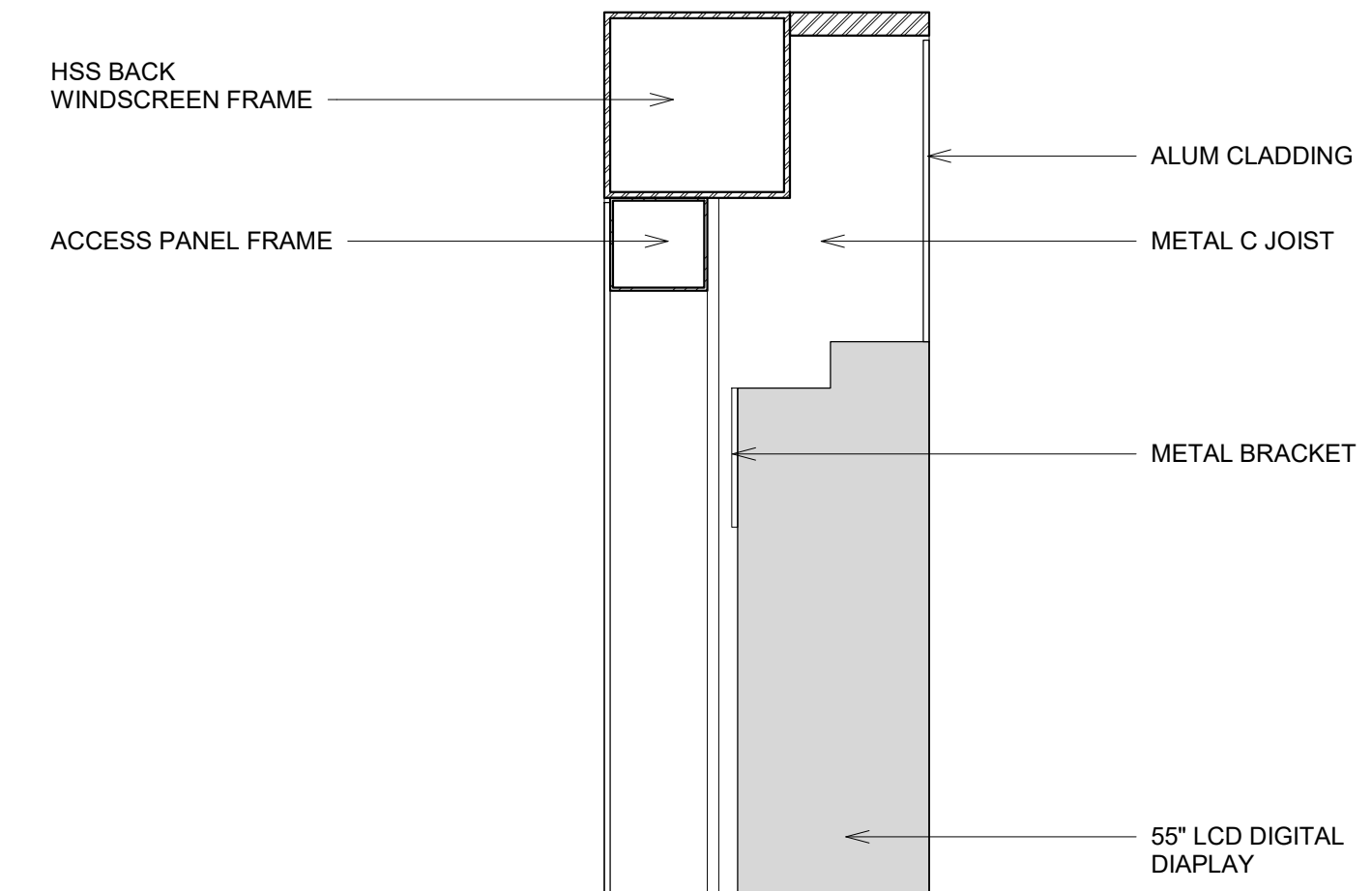
ALEXANDRIA PROJECT NO.:	110104122
DATE OF PLAN ISSUANCE:	07/12/24
CONSULTANT PROJECT ID.:	N/A
DESIGNED BY:	11/15/23
DESIGNER DATE:	12/06/23
DRAWN BY:	12/12/23
CHECKER DATE:	12/14/23
APPROVED BY:	12/14/23



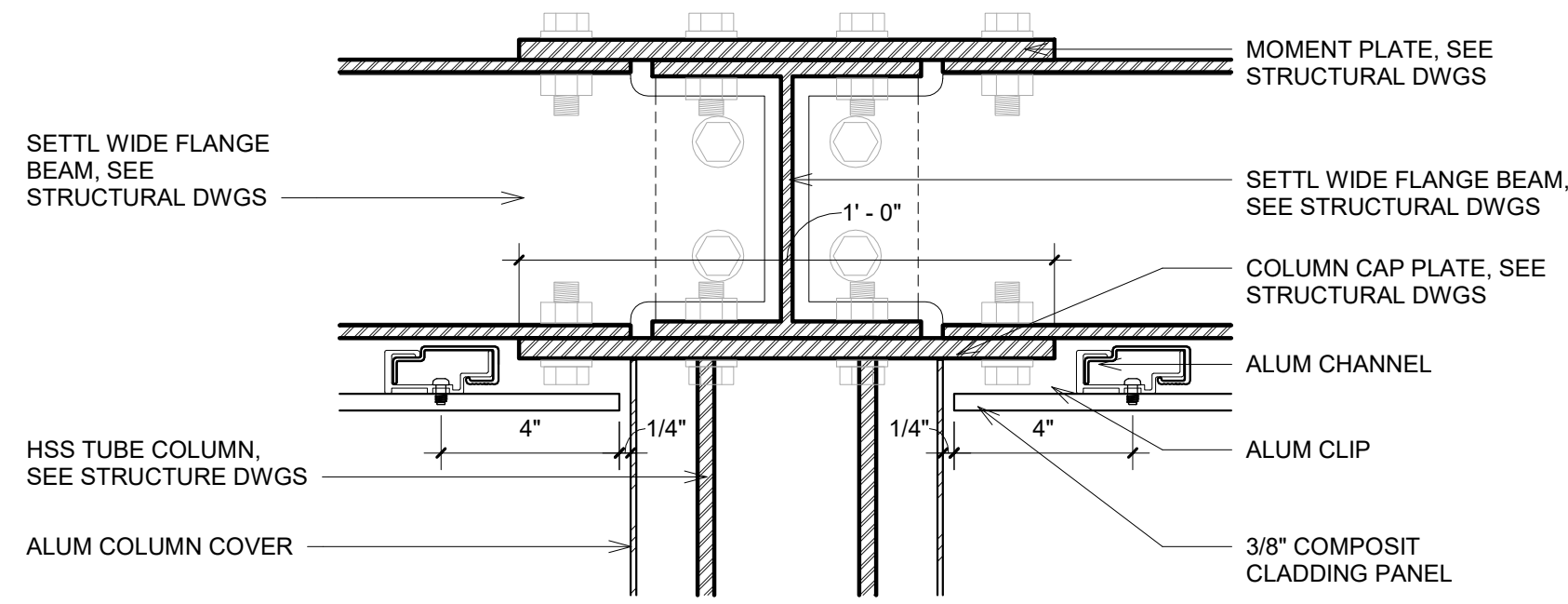
1
A-503
DETAIL SECTION - DOWN LIGHT
SC: 3" = 1'-0"



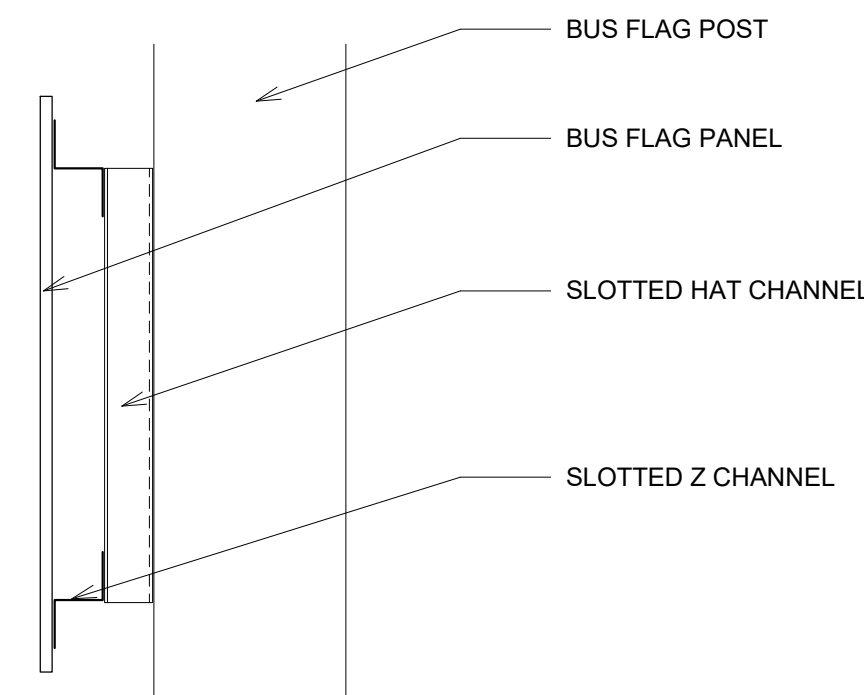
3
A-503
FLAG ATTACHMENT DETAIL-PLAN
SC: 3" = 1'-0"



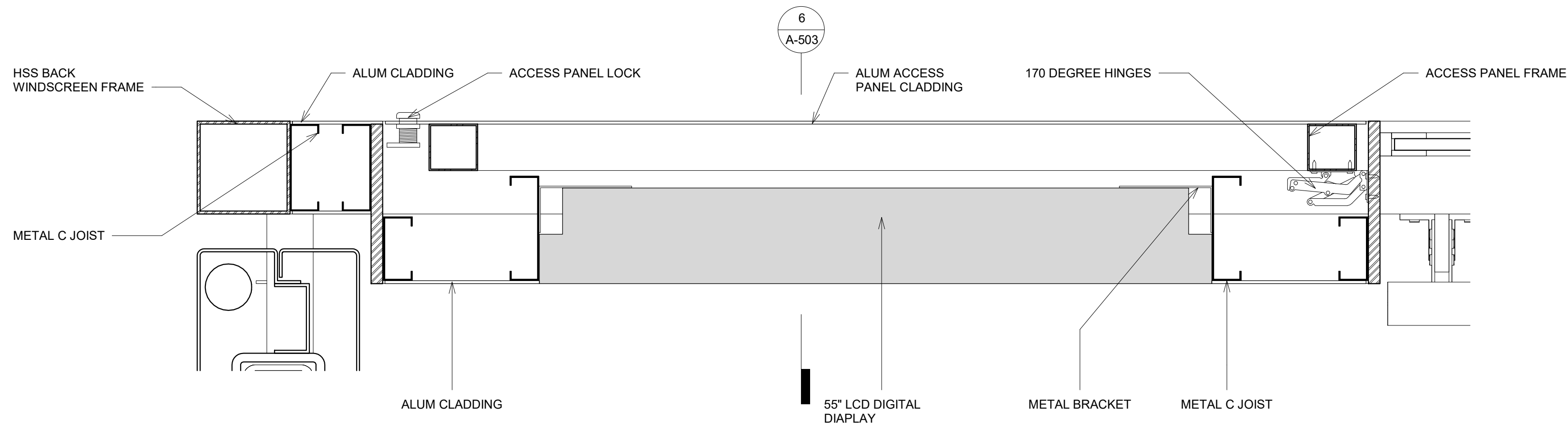
6
A-503
DETAIL SECTION - DIGITAL DISPLAY ENSLOSURE
SC: 3" = 1'-0"



2
A-503
DETAIL SECTION - COLUMN PENETRATION
SC: 3" = 1'-0"

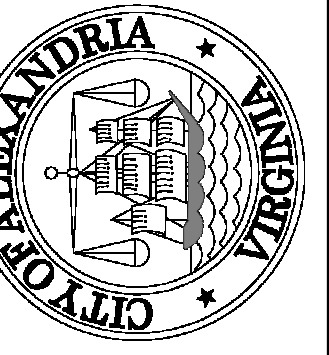


4
A-503
FLAG ATTACHMENT DETAIL-SECTION
SC: 3" = 1'-0"



5
A-503
DETAIL - DIGITAL DISPLAY ENCLOSURE
SC: 3" = 1'-0"

60% DESIGN PHASE



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301 KING STREET
ALEXANDRIA, VIRGINIA 22313

REVISIONS	
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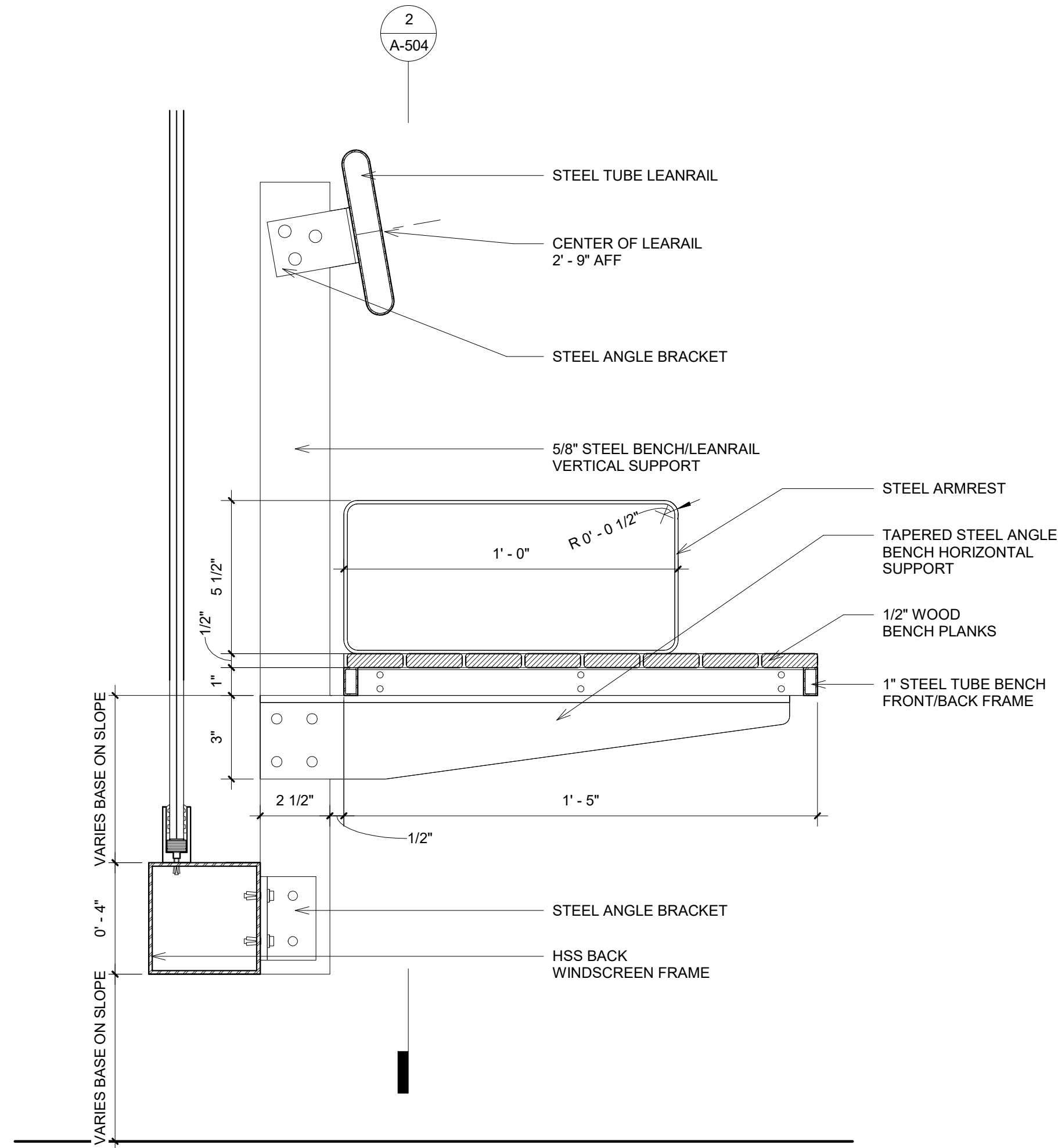
WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

TYPICAL SHELTER DETAIL

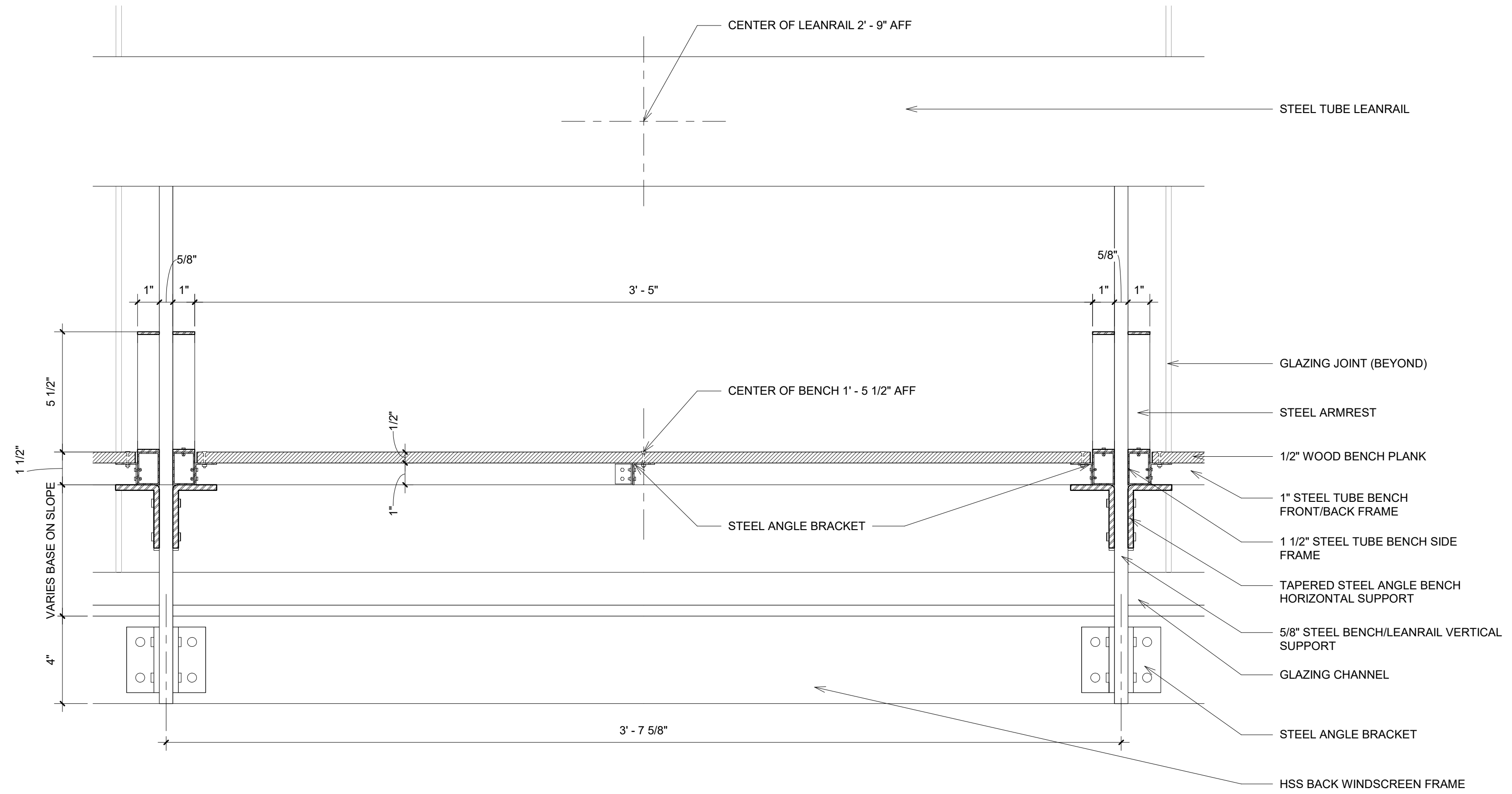


SHEET
A-503

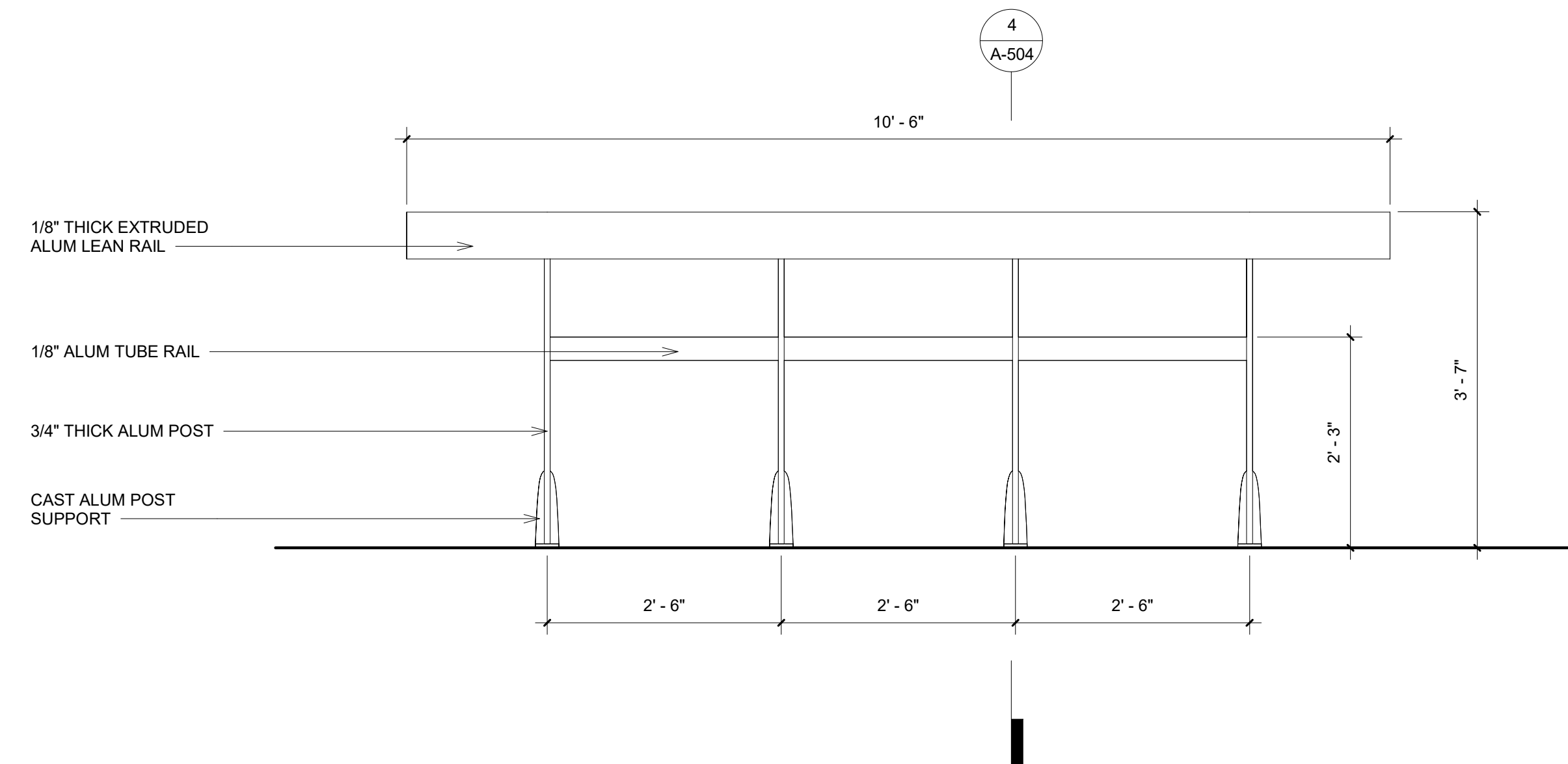
SCALE 3" = 1'-0"



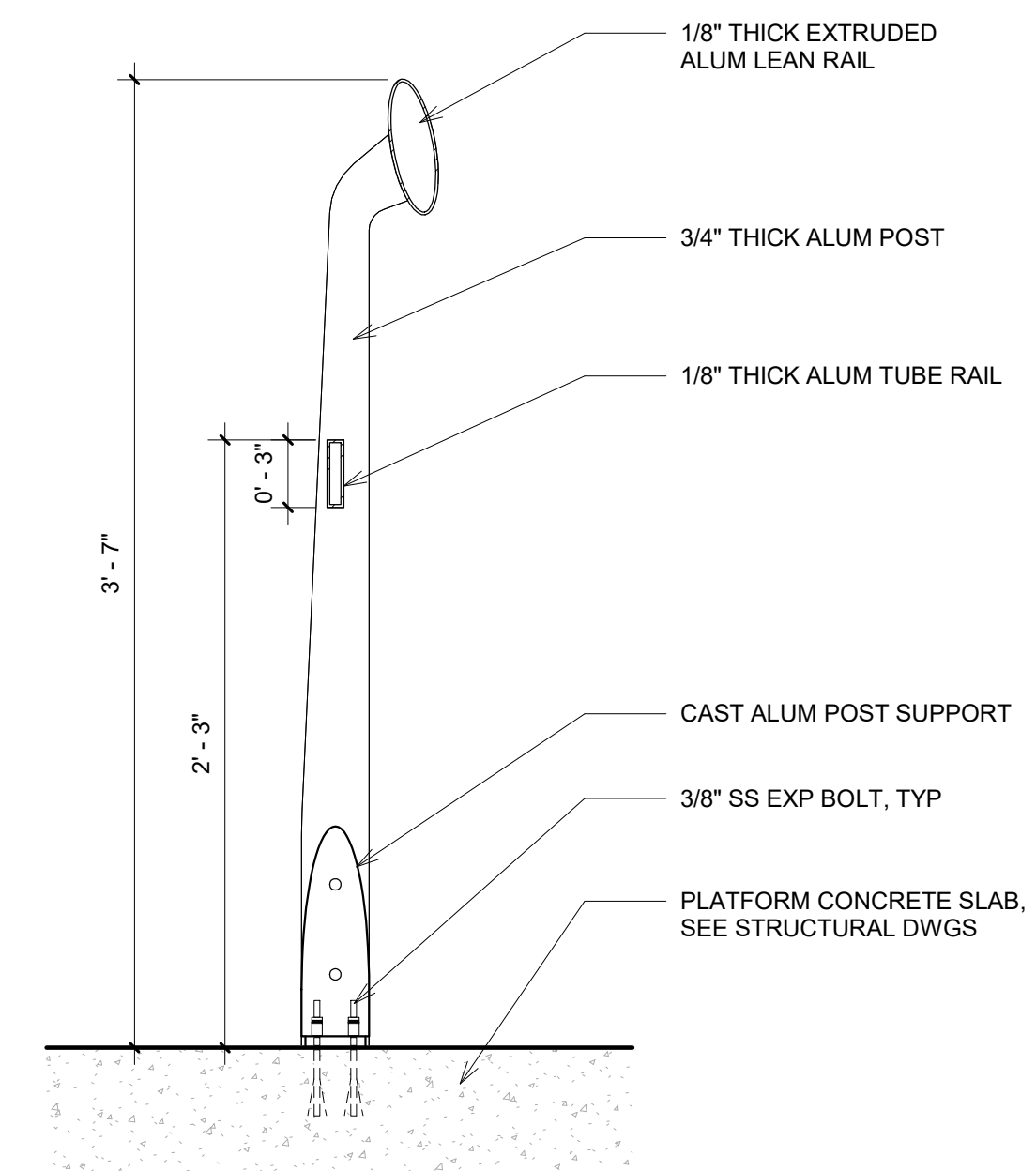
1
A-504
DETAIL SECTION - LEANRAIL AND BENCH
SC: 3" = 1'-0"



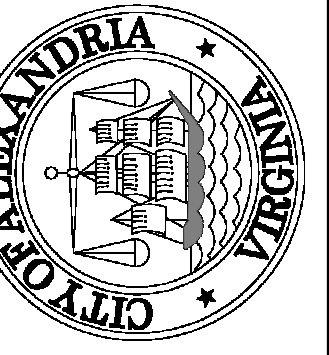
2
A-504
DETAIL SECTION - BENCH
SC: 3" = 1'-0"



3
A-504
TYPICAL DETAIL - LEAN RAIL ELEVATION
SC: 3/4" = 1'-0"



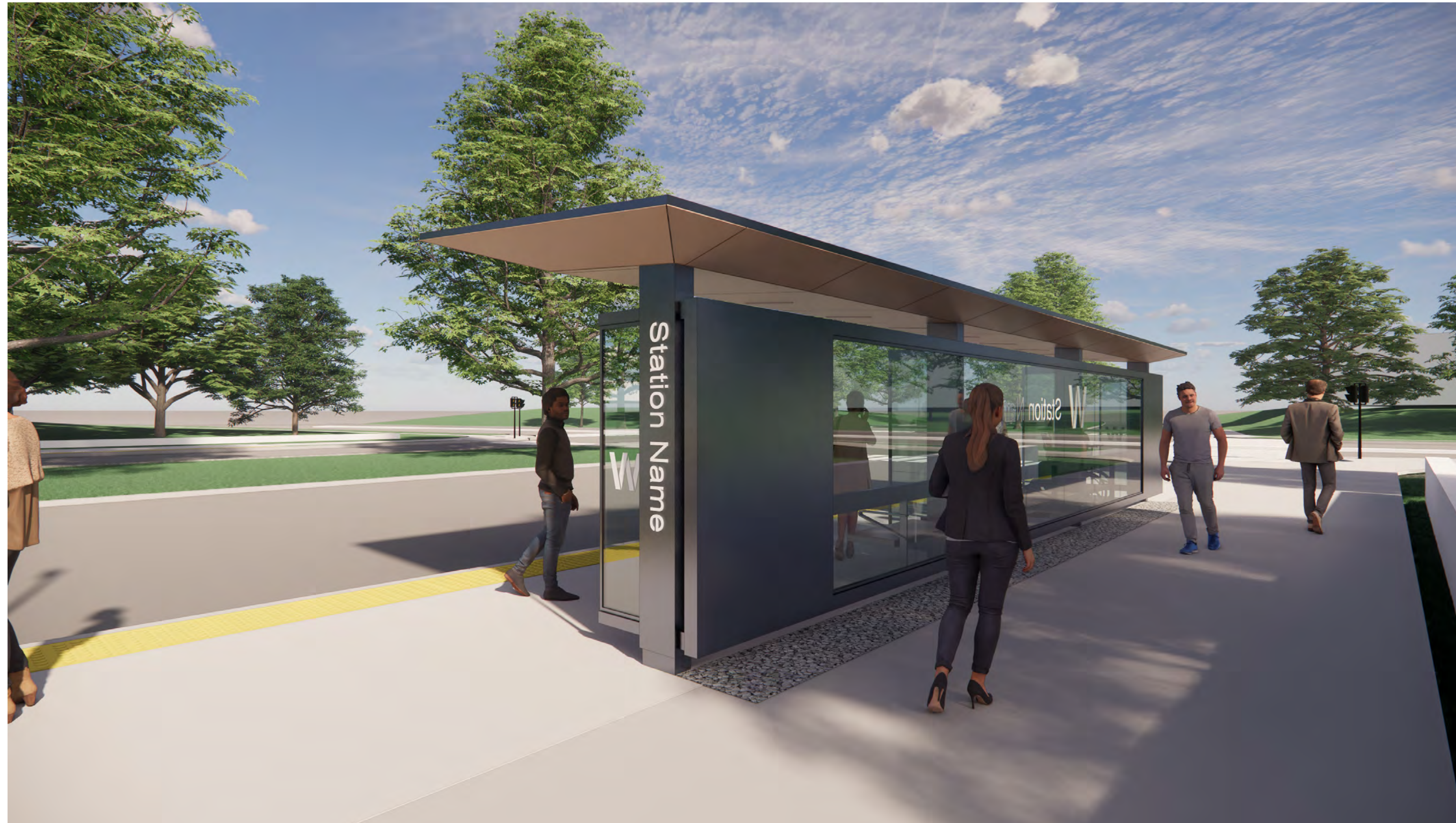
4
A-504
TYPICAL DETAIL - LEAN RAIL SECTION
SC: 1 1/2" = 1'-0"



REVISIONS	
DATE	DESCRIPTION



APPROACH VIEW FROM BOARDING END



APPROACH VIEW FROM REAR SIDEWALK

PERSPECTIVE VIEW - ALTERNATIVE 1 (ARTWORK PANEL VERSION)

WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

TYPICAL SHELTER PERSPECTIVE
VIEW - ALTERNATIVE 1

KGP design studio
architecture transportation urban design planning

SHEET
A-901

SCALE NTS

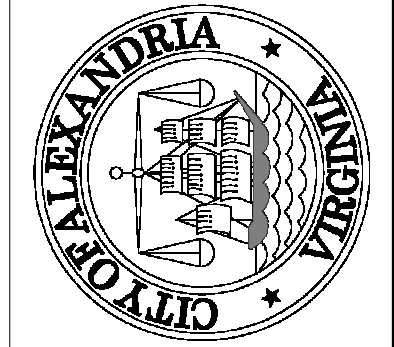
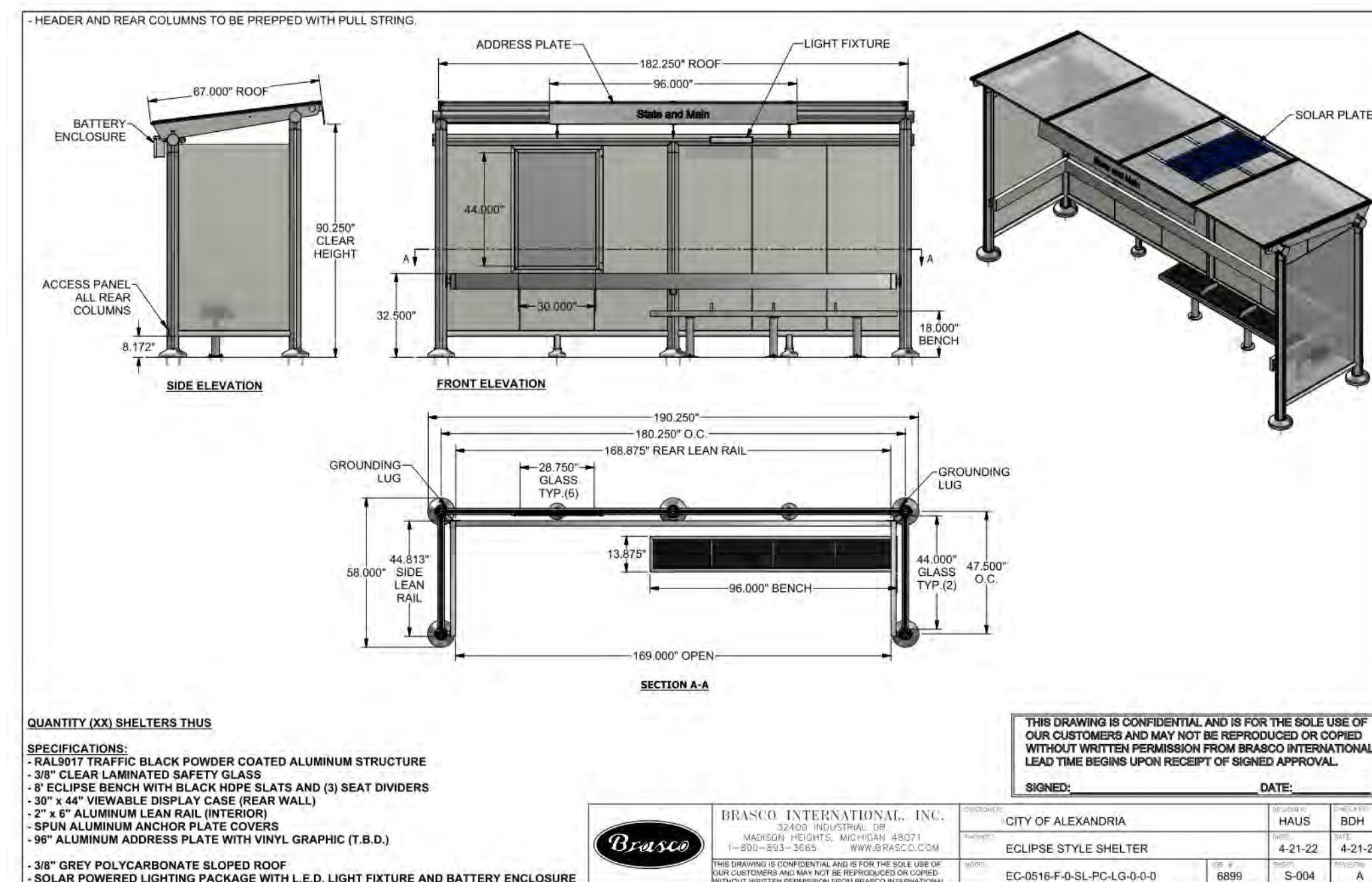
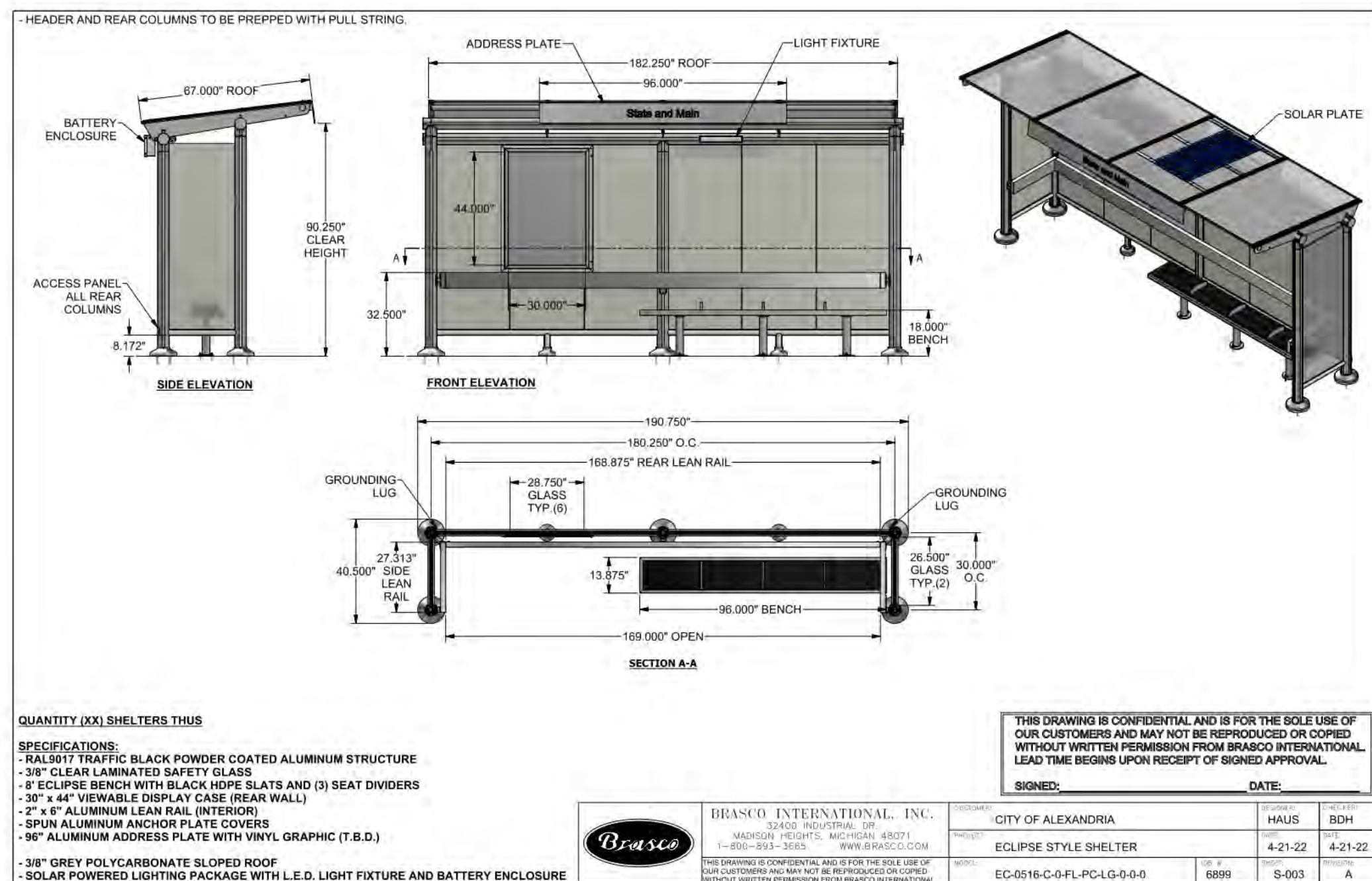
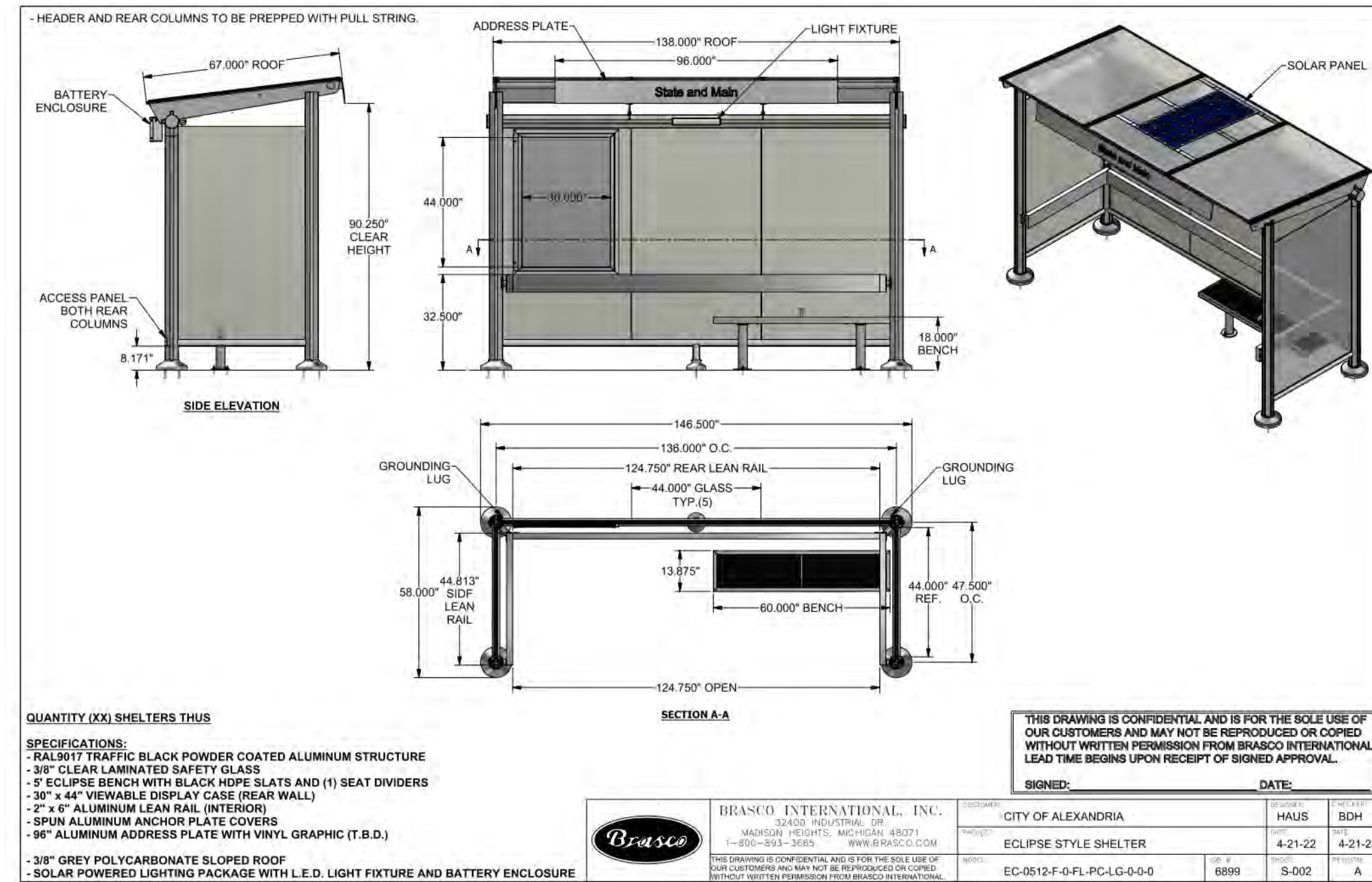
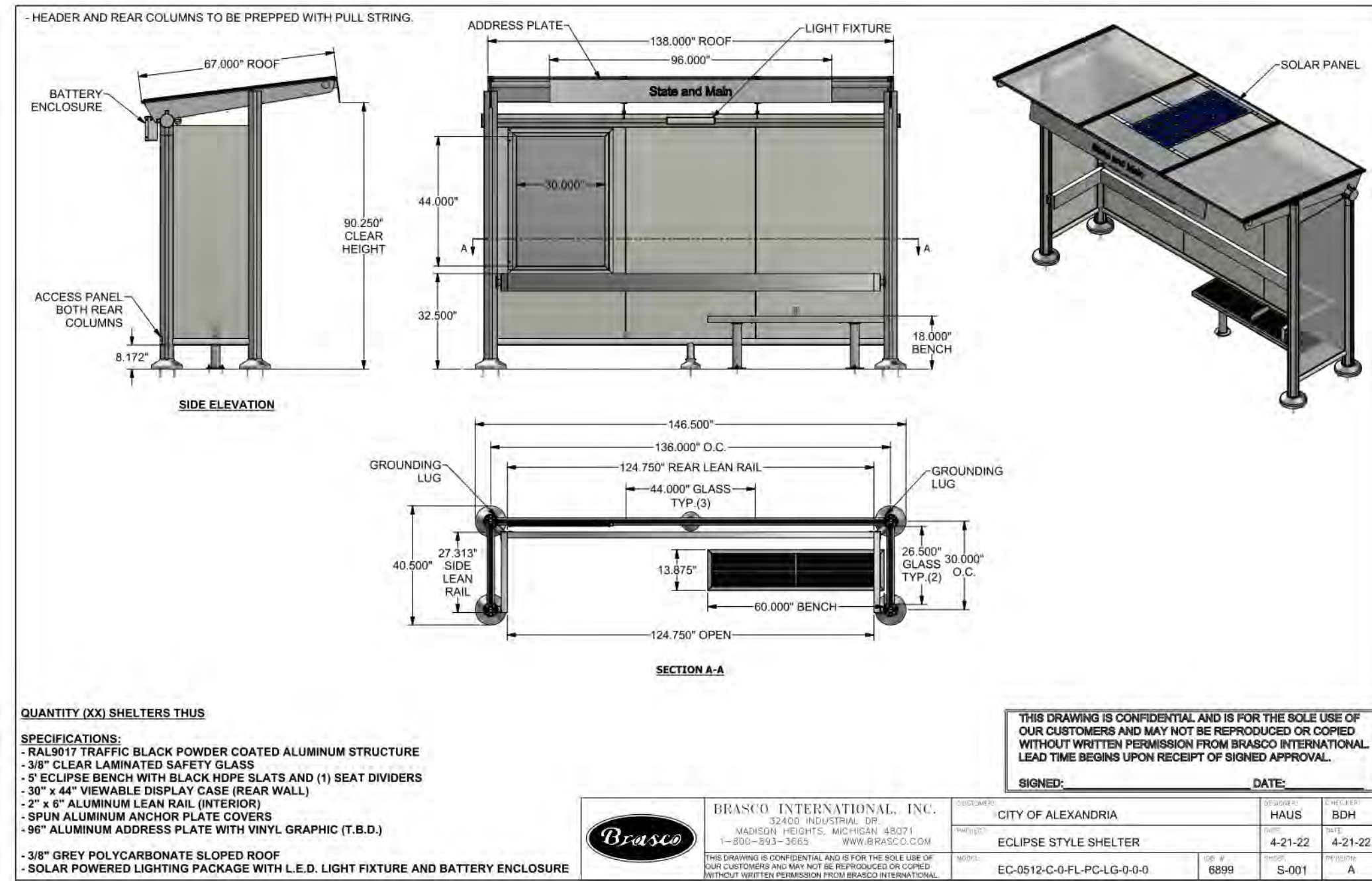
ALEXANDRIA PROJECT NO.:	110104122
DATE OF PLAN ISSUANCE:	07/12/24
CONSULTANT PROJECT ID.:	N/A
DESIGNED BY:	TW DATE: 11/15/23
DRAWN BY:	BO DATE: 12/06/23
CHECKED BY:	PD DATE: 12/12/23
APPROVED BY:	DP DATE: 12/14/23

REVISIONS	DESCRIPTION
DATE BY	

CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313



60% DESIGN PHASE



REVISIONS

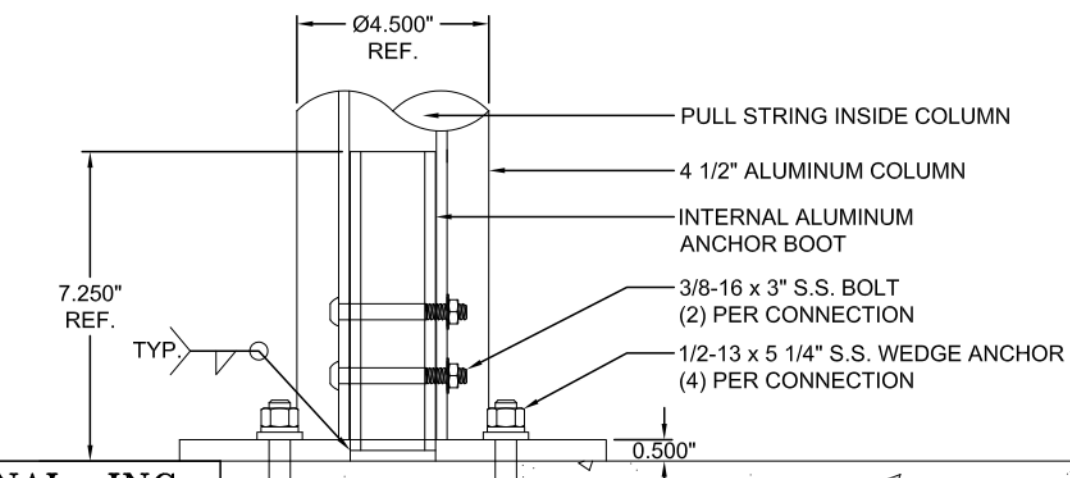
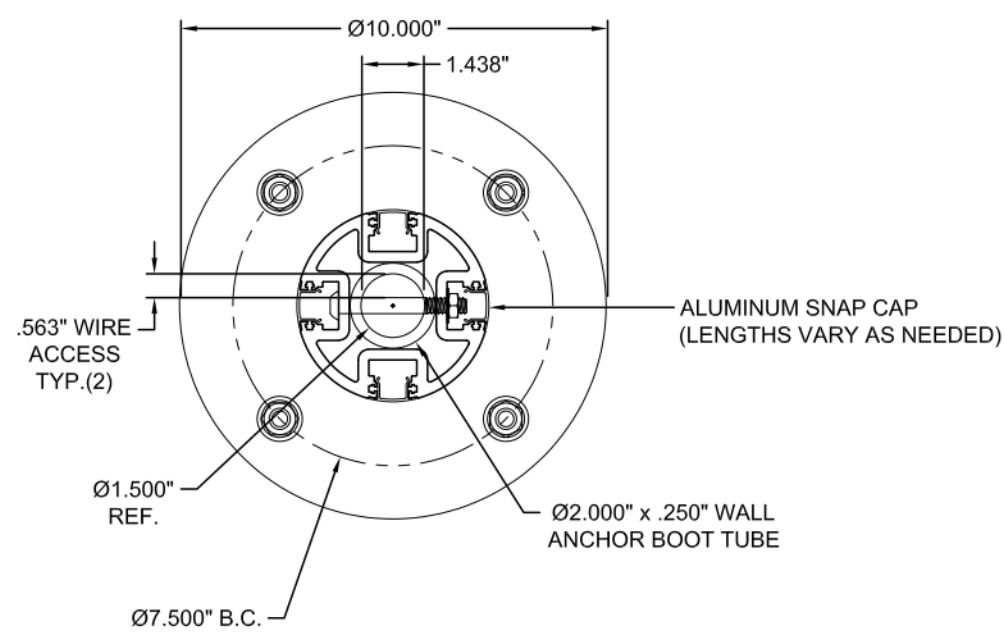
DATE BY	DESCRIPTION

WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

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INTERIM SHELTER DETAILS AT MARK CENTER AVENUE

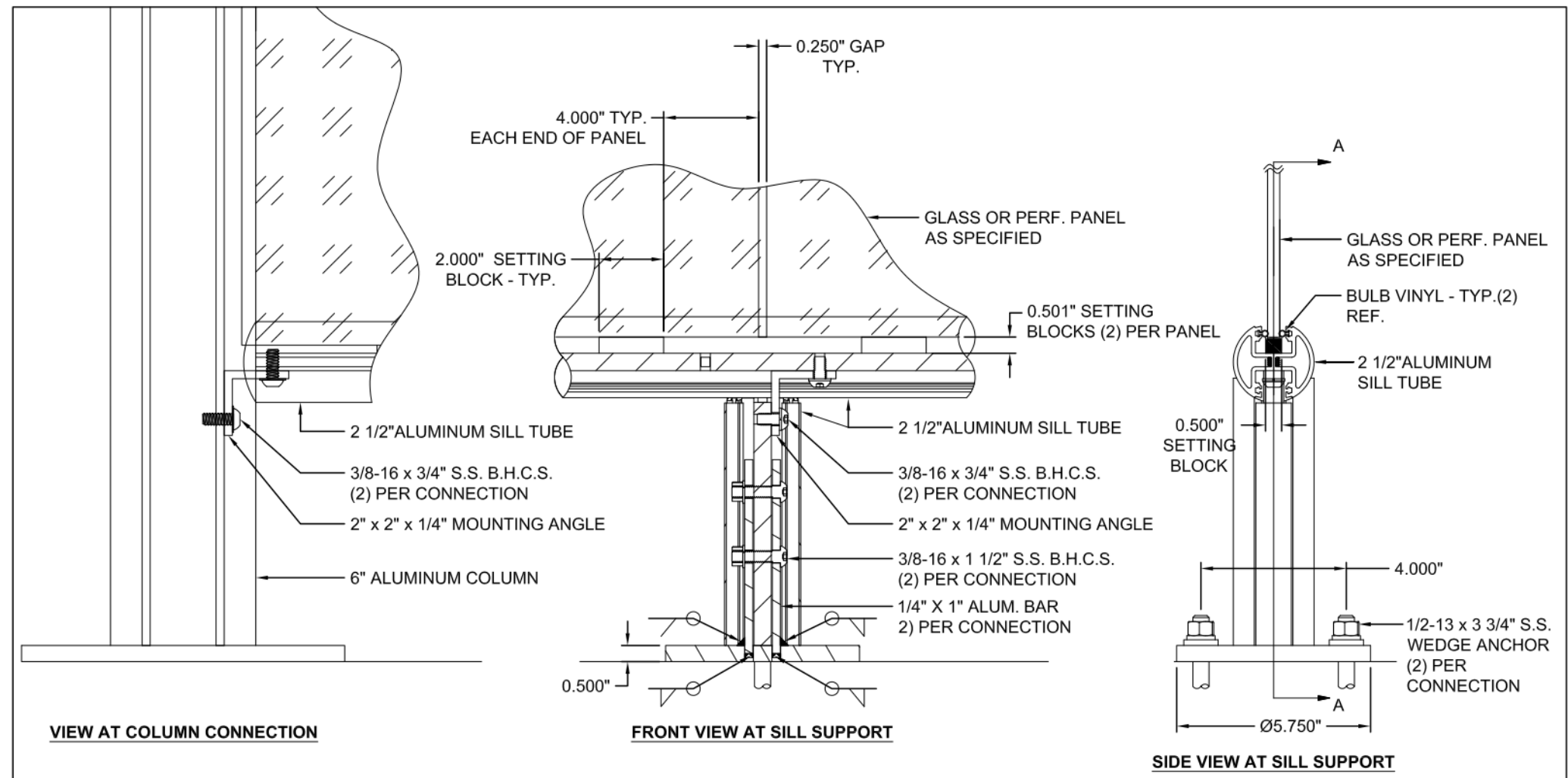
architecture transportation urban design planning



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CUSTOMER:	ENGINEER:	HAUS
DETAIL:	DATE:	4-21-22
MODEL:	SHEET #:	002
JOB #:	6899	

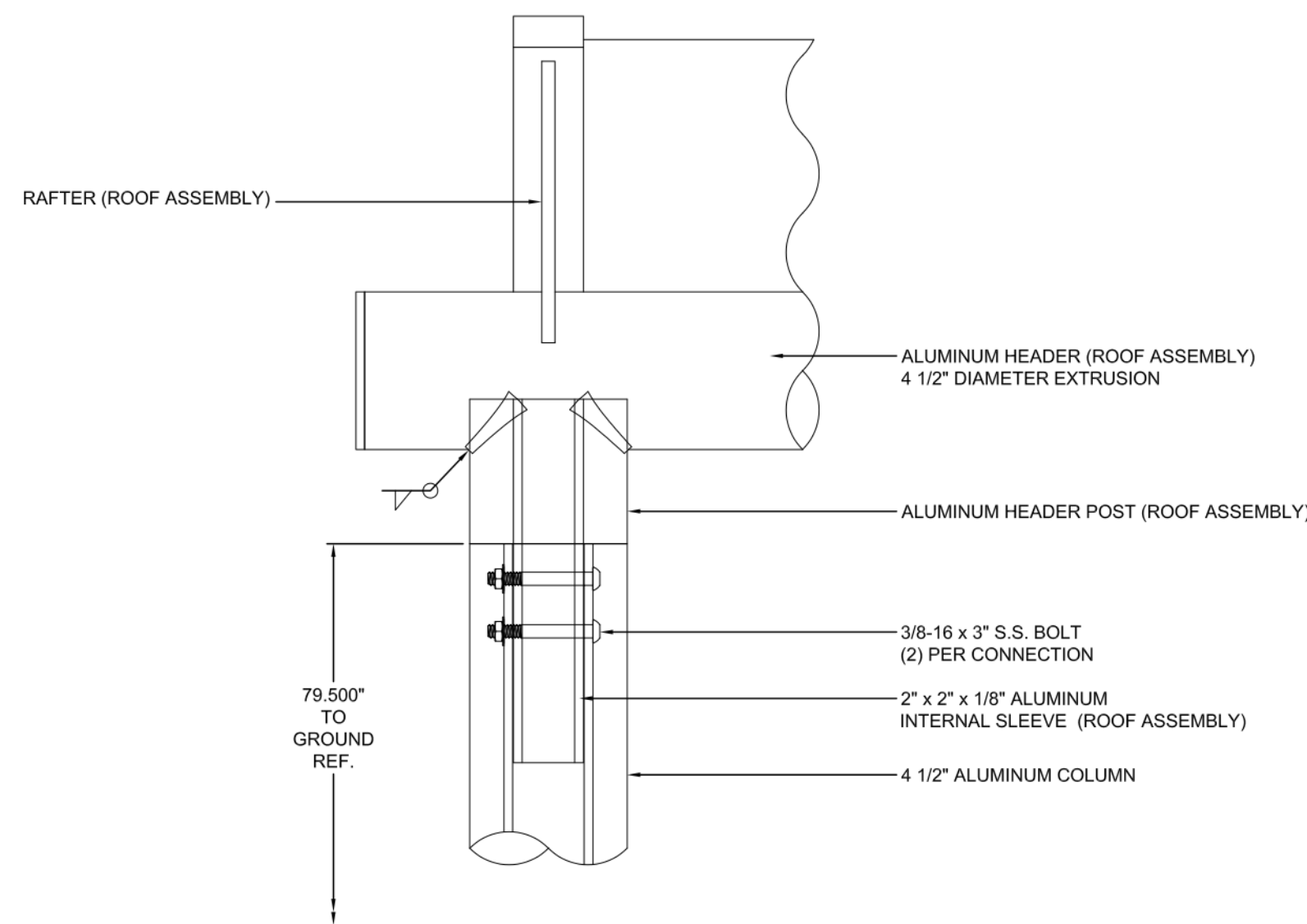


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DETAIL:	DATE:	4-21-22
MODEL:	SHEET #:	003
JOB #:	6899	

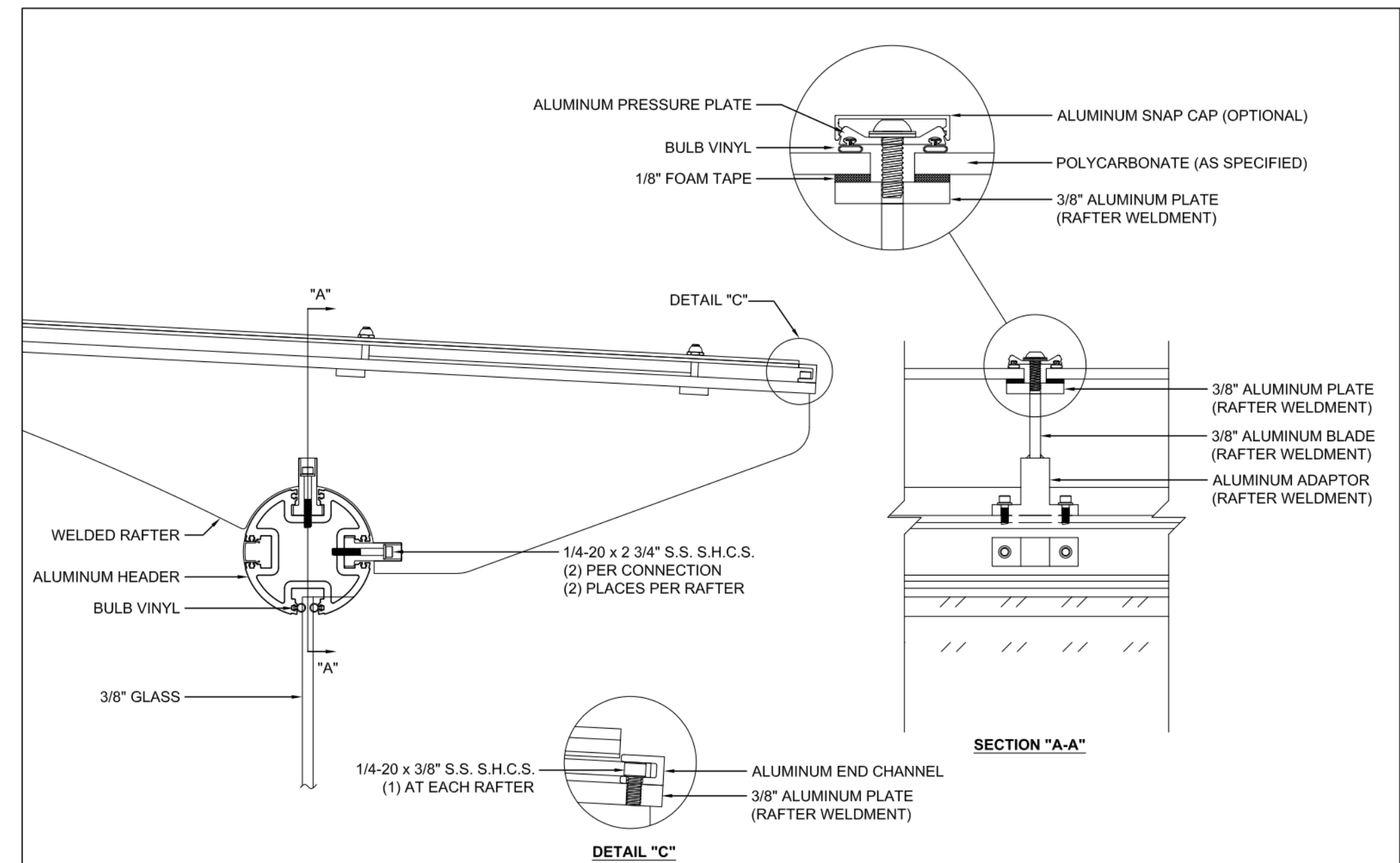
NOTE: ROOF ARRIVES FULLY ASSEMBLED



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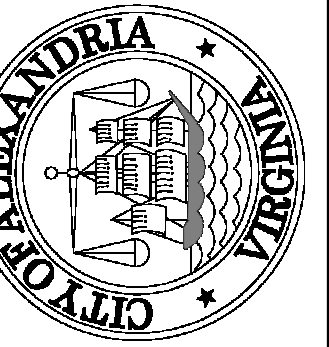


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CUSTOMER:	ENGINEER:	HAUS
DETAIL:	DATE:	4-21-22
MODEL:	SHEET #:	005
JOB #:	6899	

60% DESIGN PHASE



CITY OF ALEXANDRIA, VIRGINIA
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ALEXANDRIA, VIRGINIA 22313

WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

INTERIM SHELTER DETAILS AT
MARK CENTER AVENUE



SHEET
A-116
SCALE NTS

REVISIONS

DATE	DESCRIPTION
11/04/22	
07/12/24	
11/15/23	
12/06/23	
12/12/23	
12/14/23	

ALEXANDRIA PROJECT NO.: 110104122

DATE OF PLAN ISSUANCE: 07/12/24

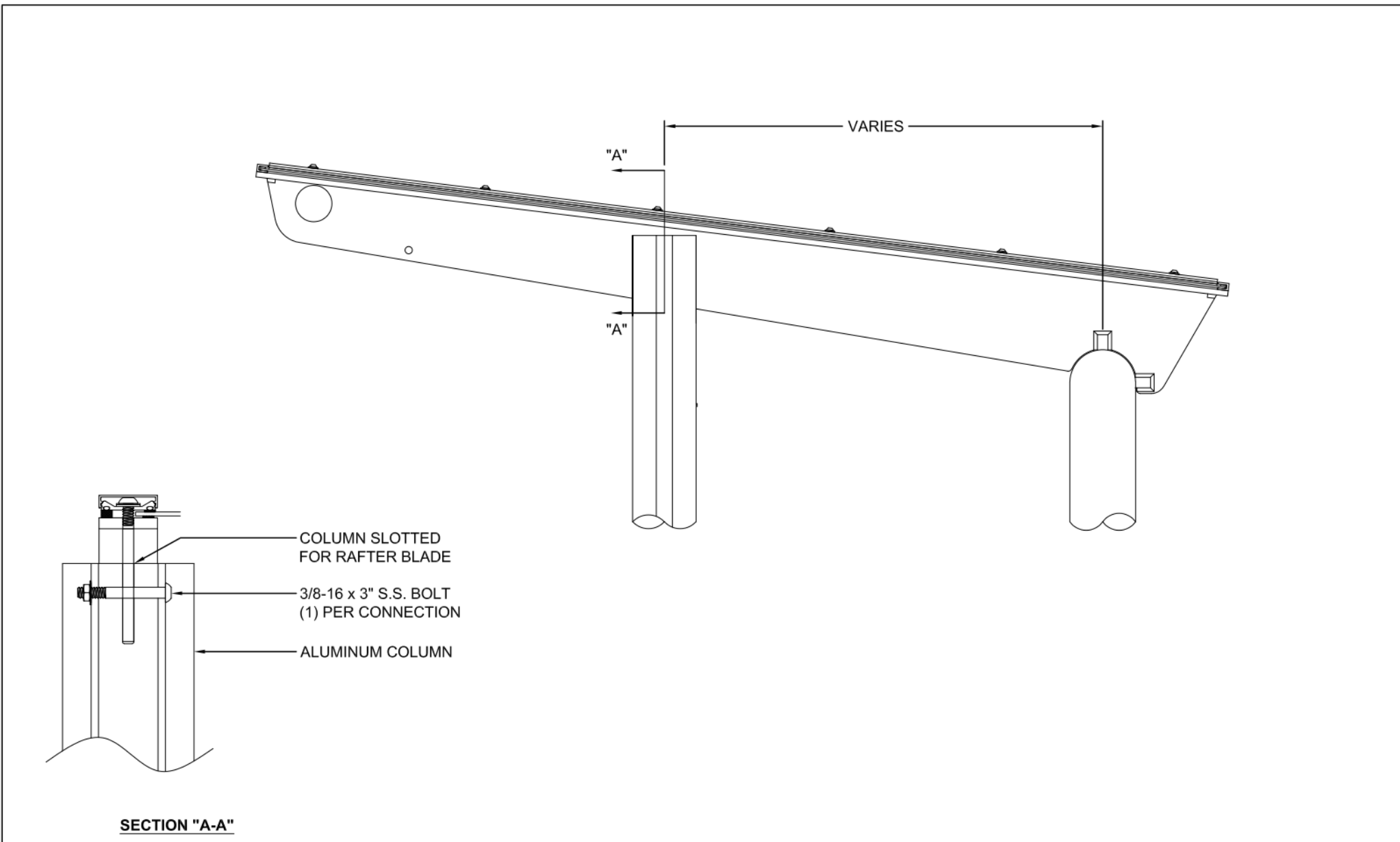
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DESIGNED BY: AD. DATE: 11/15/23

DRAWN BY: AD. DATE: 12/06/23

CHECKED BY: PD. DATE: 12/12/23

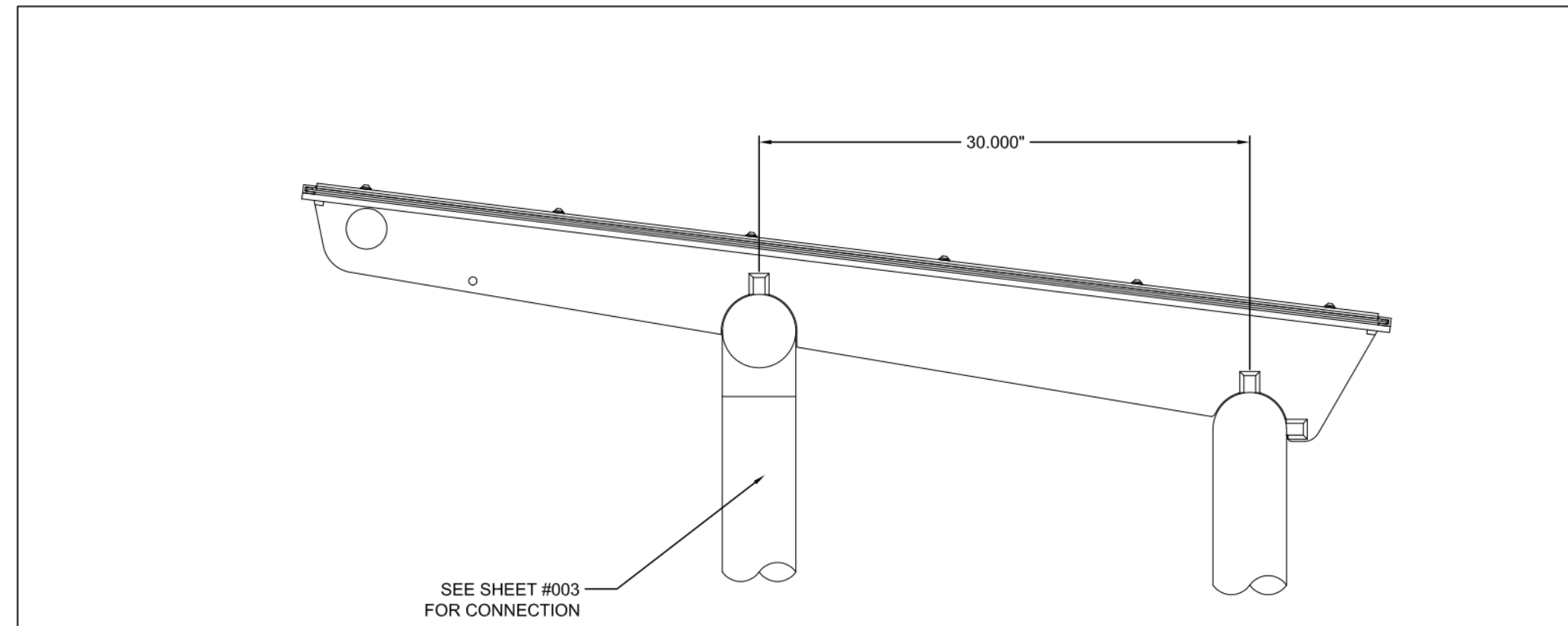
APPROVED BY: DP. DATE: 12/14/23



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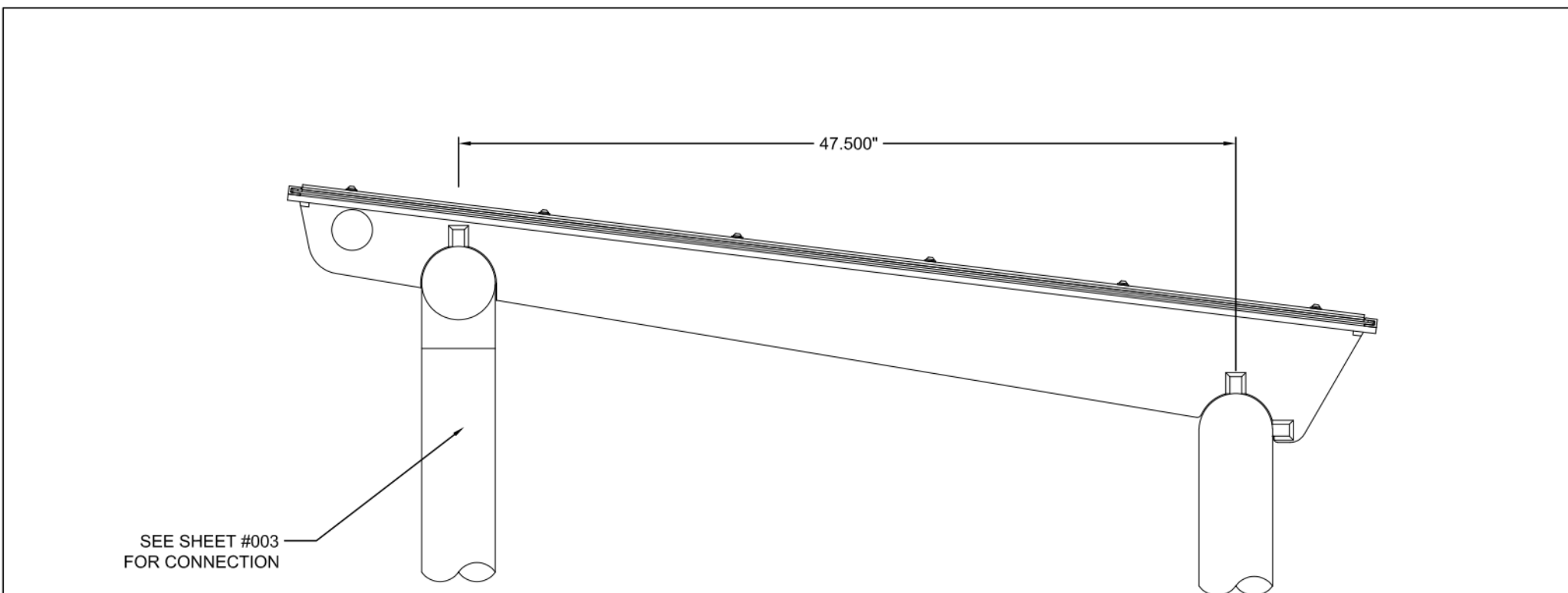
CUSTOMER:	ENGINEER:	HAUS
DETAIL:	DATE:	4-21-22
MODEL:	ECLIPSE SERIES	JOB # 6899 SHEET # 006



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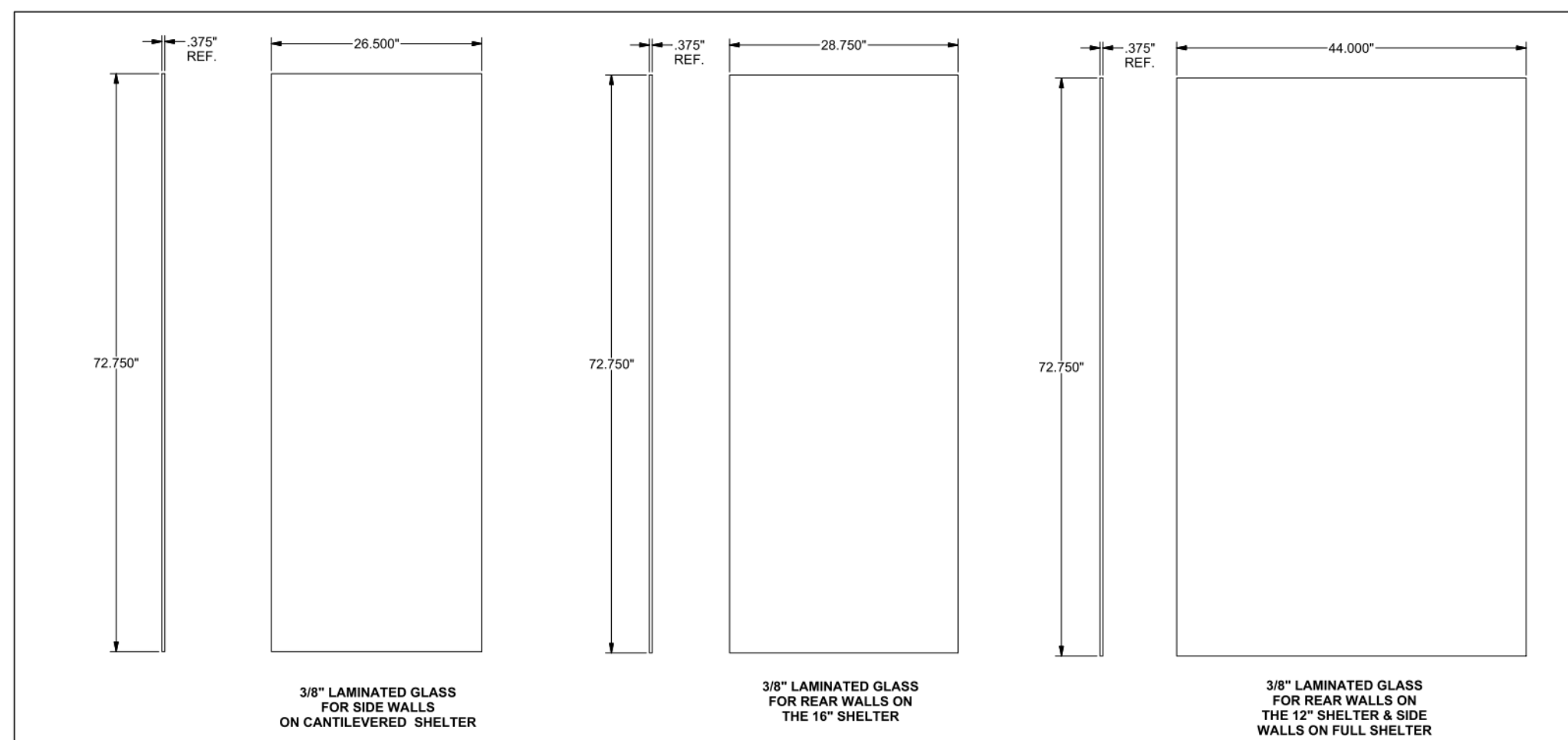
CUSTOMER:	ENGINEER:	HAUS
DETAIL:	DATE:	4-21-22
MODEL:	ECLIPSE SERIES	JOB # 6899 SHEET # 007



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CUSTOMER:	ENGINEER:	HAUS
DETAIL:	DATE:	4-21-22
MODEL:	ECLIPSE SERIES	JOB # 6899 SHEET # 008



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		ECLIPSE STYLE SHELTER	4-21-22	4-21-22
		EC201	JOB # 6899	SHEET # 009 A

60% DESIGN PHASE



CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

REVISIONS

DATE BY	DESCRIPTION

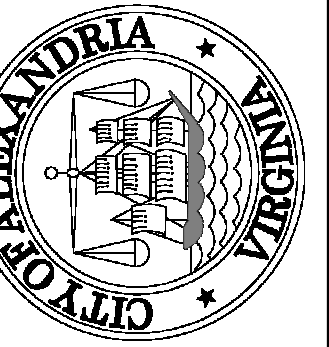
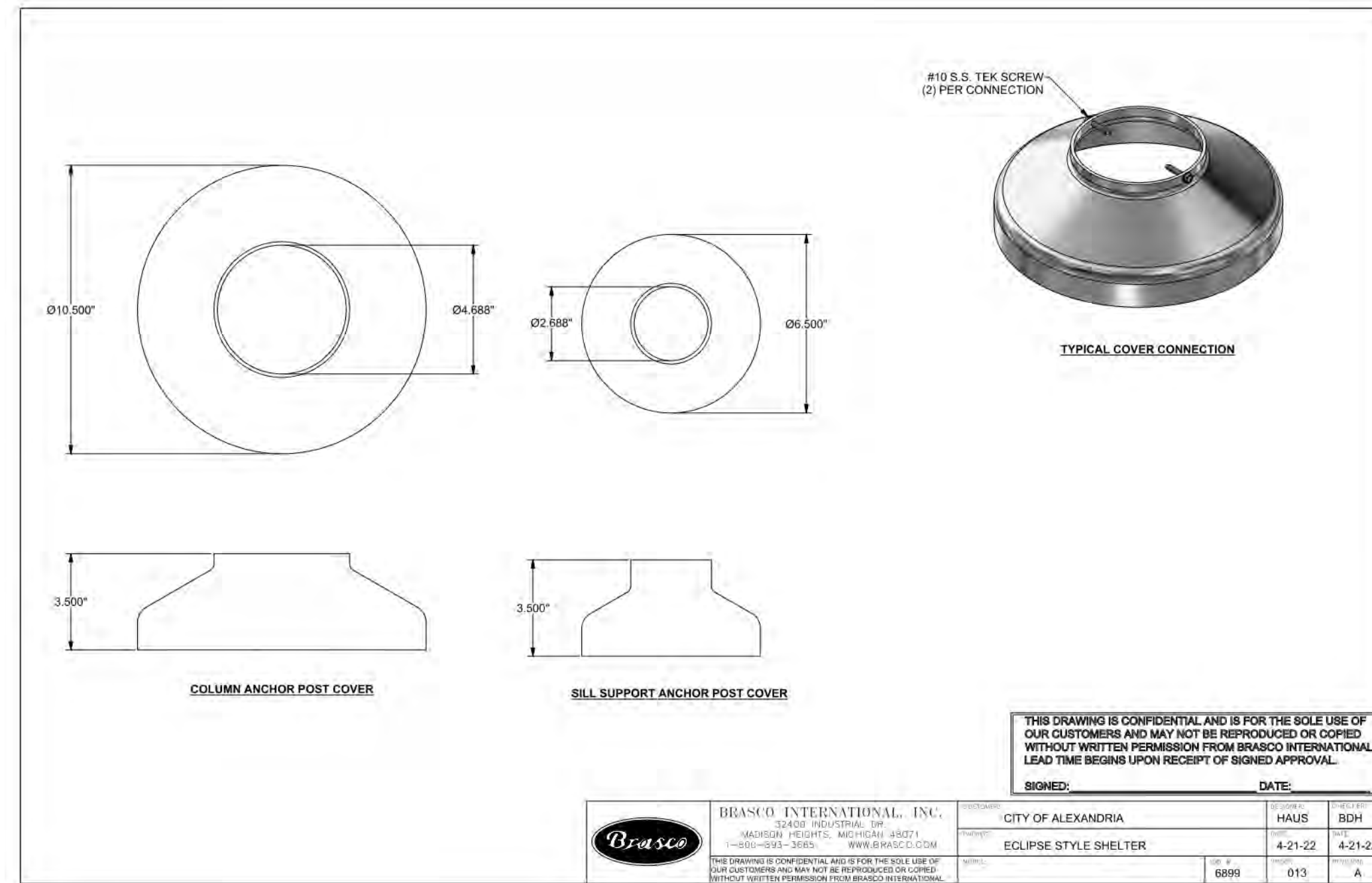
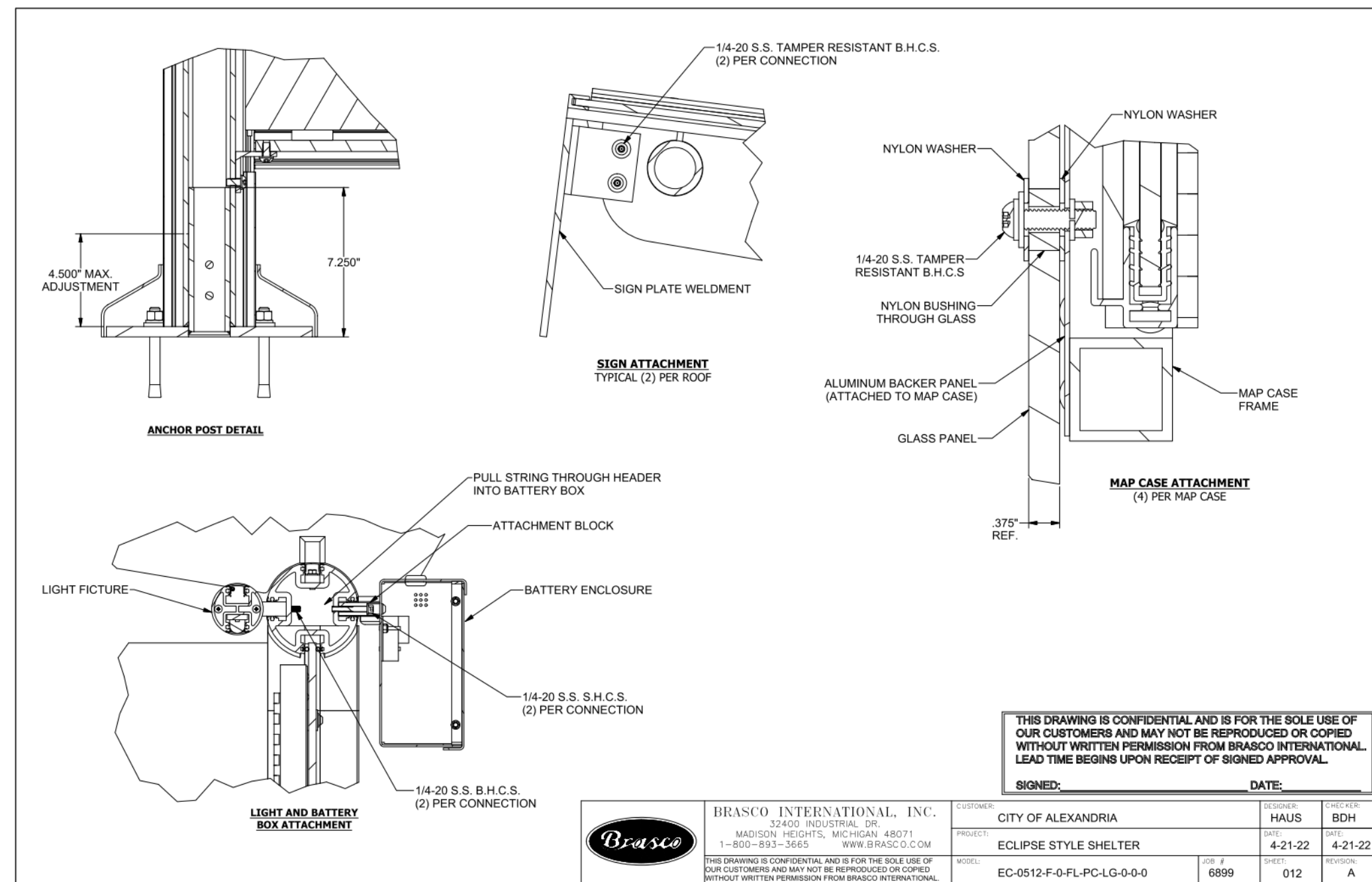
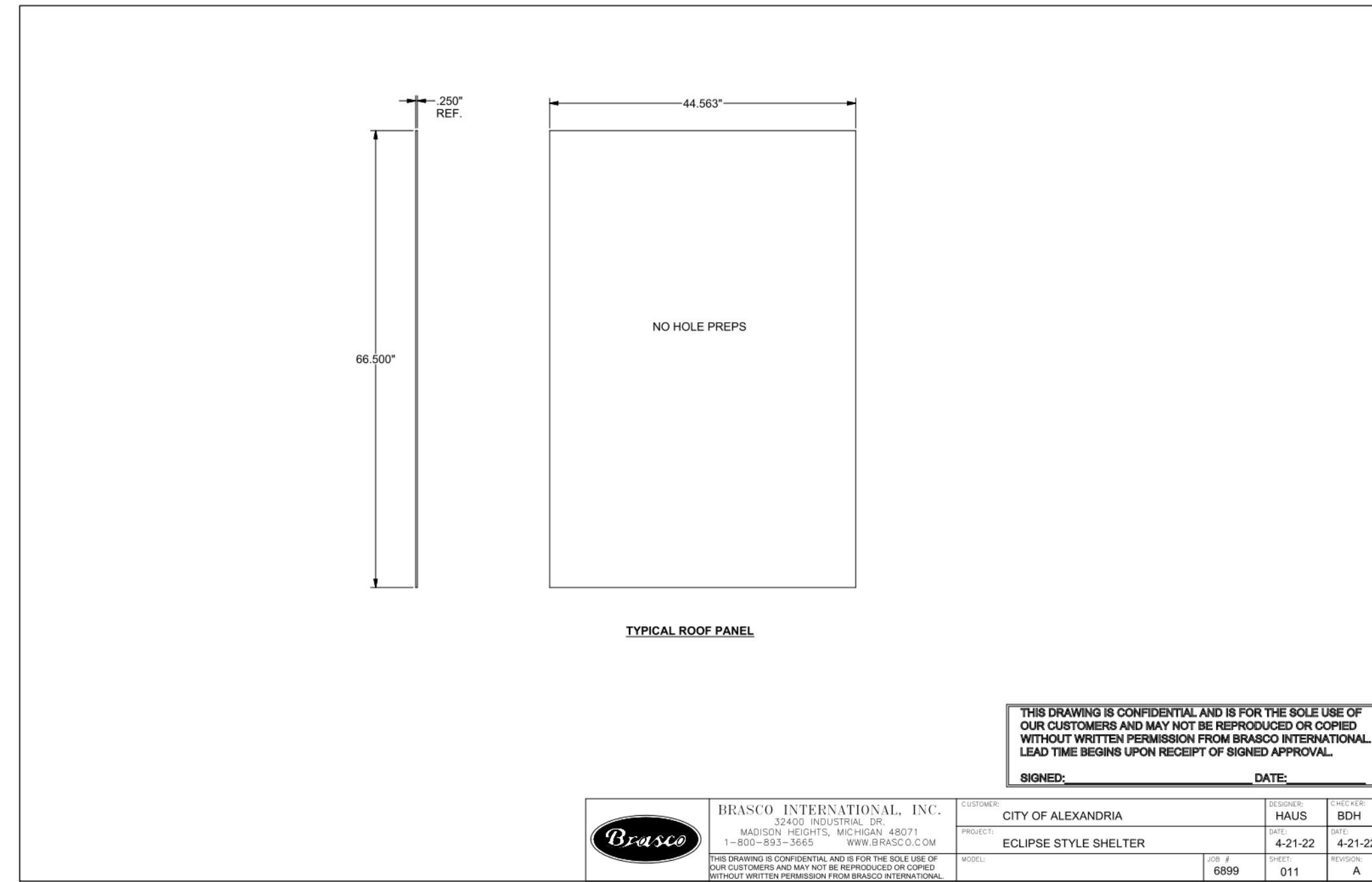
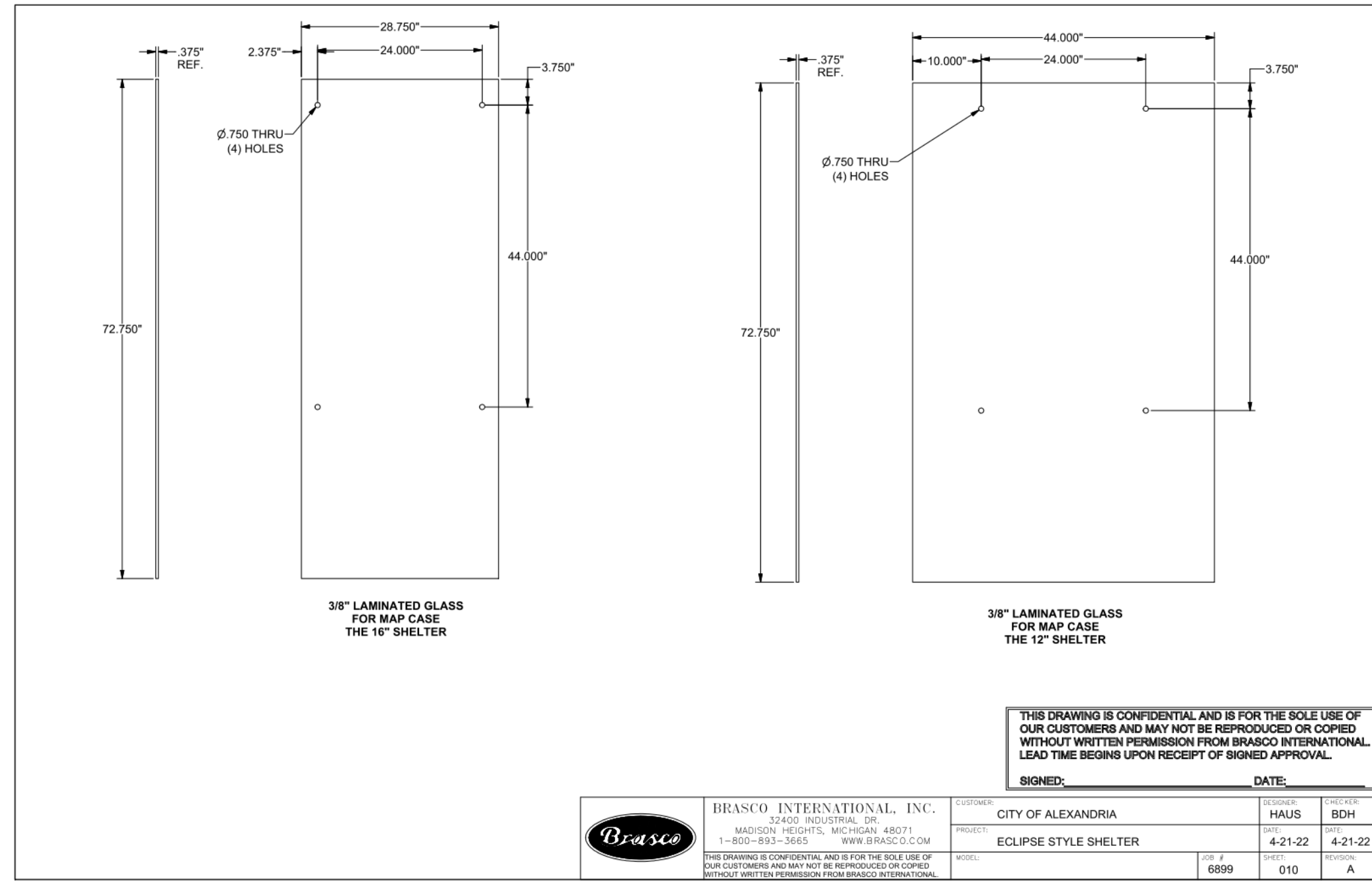
ALEXANDRIA PROJECT NO.:	110104122
DATE OF PLAN ISSUANCE:	07/12/24
CONSULTANT PROJECT ID.:	N/A
DESIGNED BY:	AD. DATE: 11/15/23
DRAWN BY:	AD. DATE: 12/06/23
CHECKED BY:	PD. DATE: 12/12/23
APPROVED BY:	DP. DATE: 12/14/23

IMPROVEMENTS

INTERIM SHELTER DETAILS
 MARK CENTER AVENUE



SHEET
 A-117
 SCALE NTS



REVISIONS	DATE	DESCRIPTION

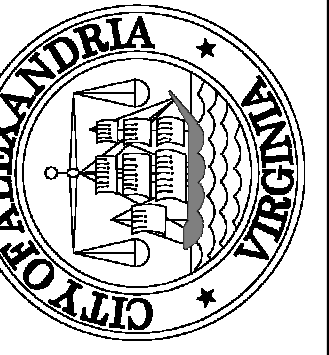
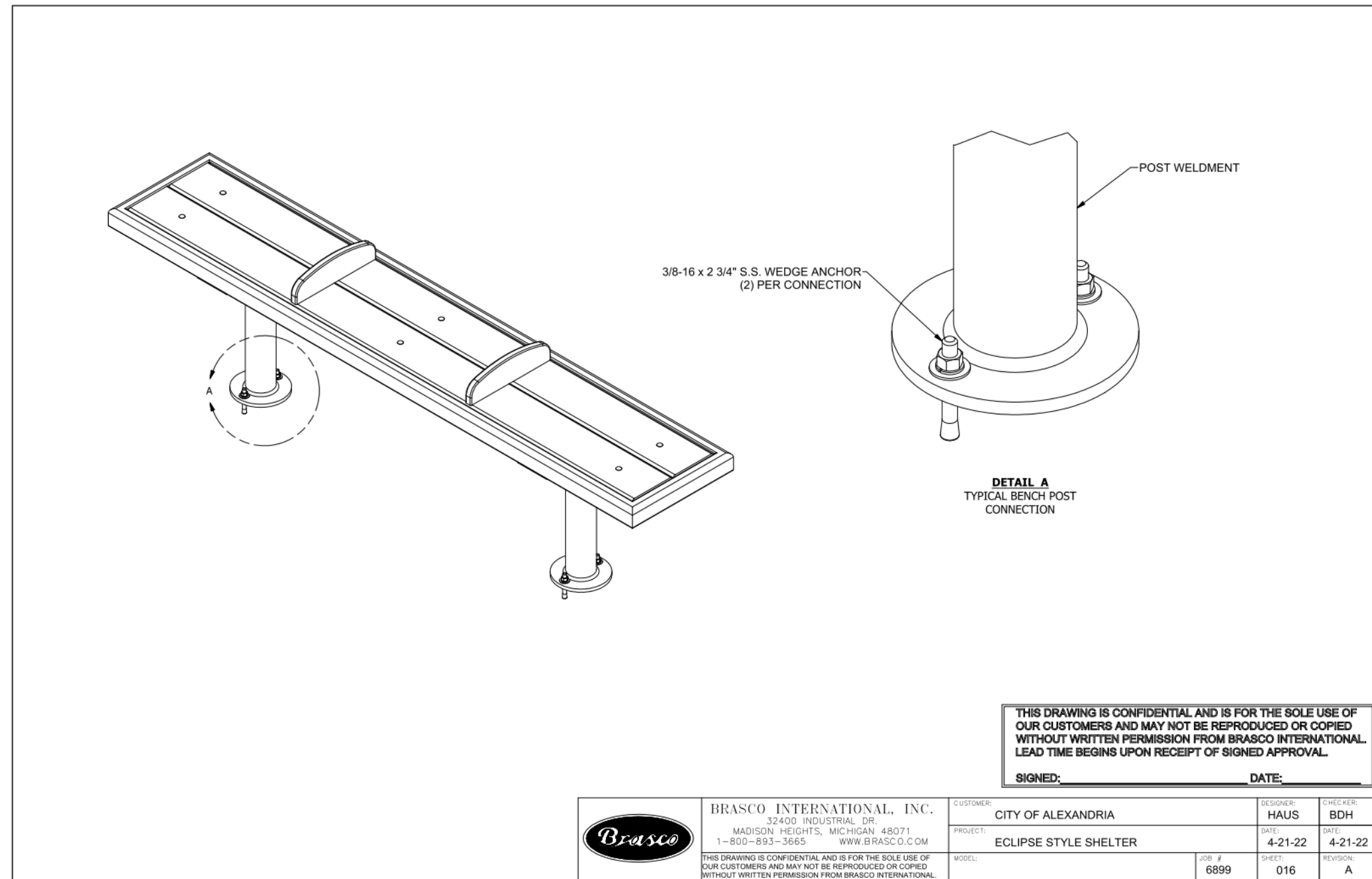
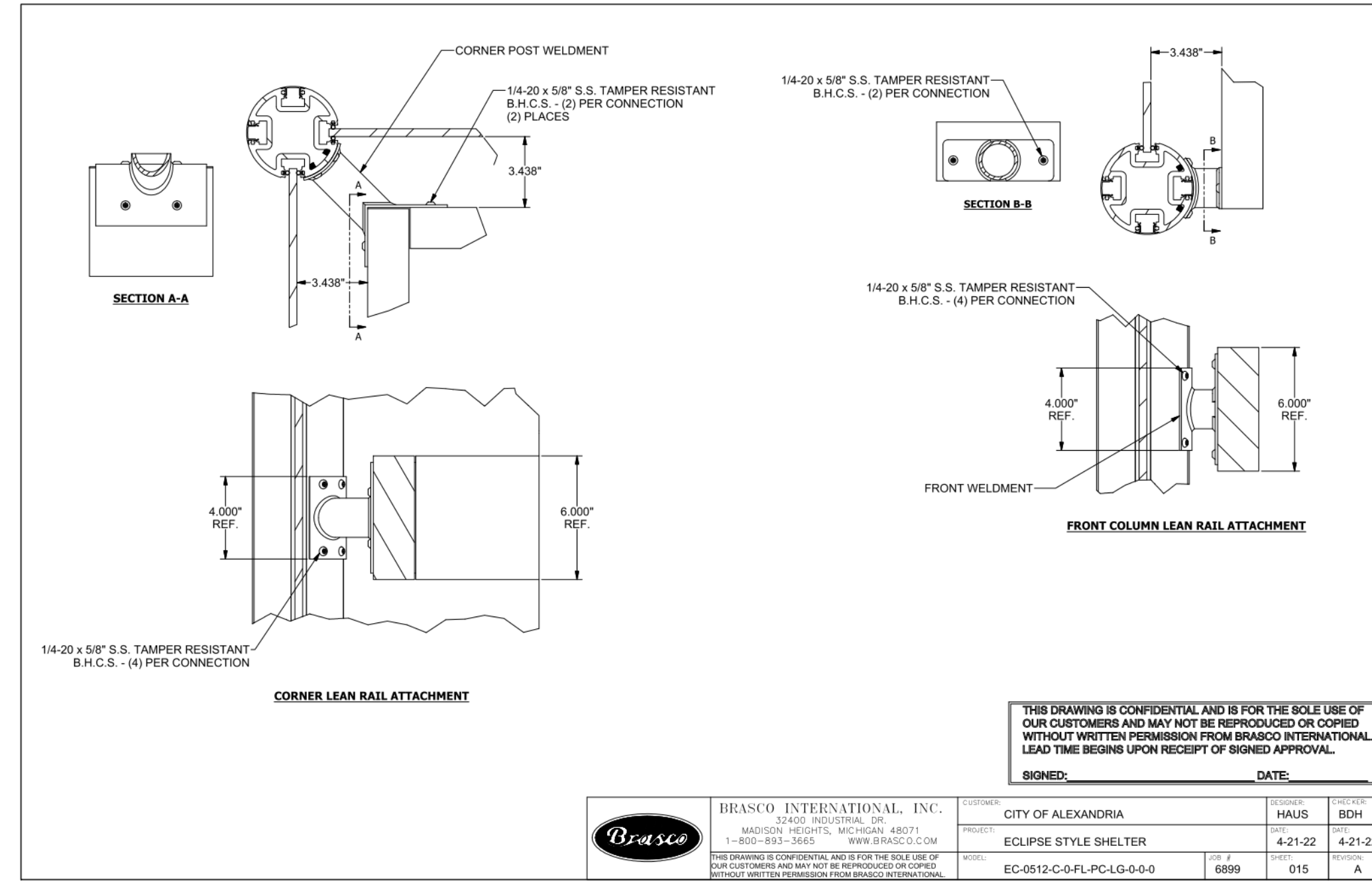
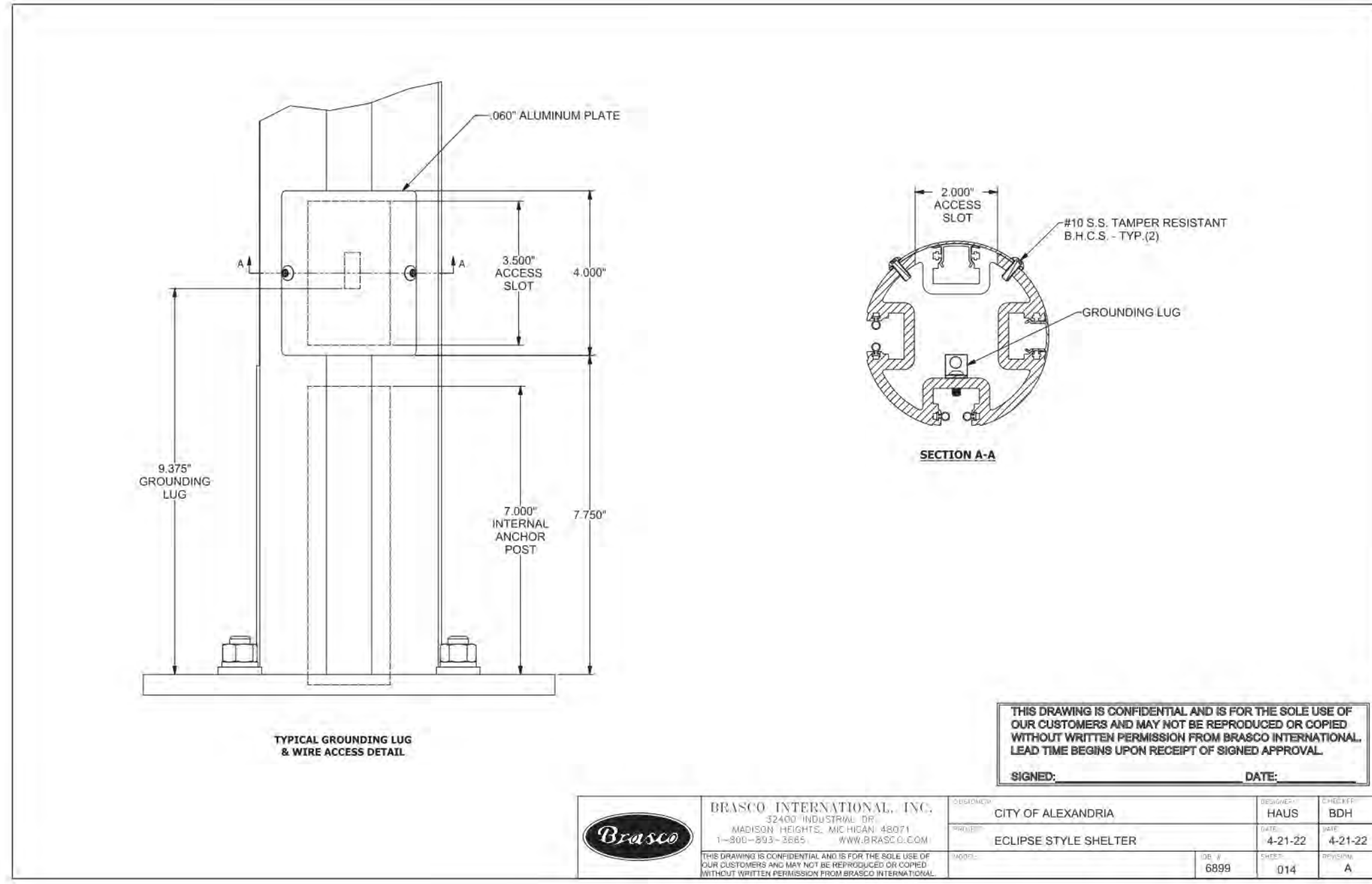
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	BRASCO INTERNATIONAL, INC. 32402 INDUSTRIAL DR. MADISON HEIGHTS, MICHIGAN 48071 1-800-893-3685 WWW.BRASCO.COM	CITY OF ALEXANDRIA	HAUS	BDH
	PROJECT: ECLIPSE STYLE SHELTER	DATE: 4-21-22	DATE: 4-21-22	
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	PROJECT: ECLIPSE STYLE SHELTER	DATE: 4-21-22	DATE: 4-21-22	
<small>THIS DRAWING IS CONFIDENTIAL AND IS FOR THE SOLE USE OF OUR CUSTOMERS AND MAY NOT BE REPRODUCED OR COPIED WITHOUT WRITTEN PERMISSION FROM BRASCO INTERNATIONAL.</small>		SIGNED: 6899	DATE: 011	DATE: A

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	PROJECT: ECLIPSE STYLE SHELTER	DATE: 4-21-22	DATE: 4-21-22	
<small>THIS DRAWING IS CONFIDENTIAL AND IS FOR THE SOLE USE OF OUR CUSTOMERS AND MAY NOT BE REPRODUCED OR COPIED WITHOUT WRITTEN PERMISSION FROM BRASCO INTERNATIONAL.</small>		SIGNED: 6899	DATE: 012	DATE: A

	BRASCO INTERNATIONAL, INC. 32402 INDUSTRIAL DR. MADISON HEIGHTS, MICHIGAN 48071 1-800-893-3685 WWW.BRASCO.COM	CITY OF ALEXANDRIA	HAUS	BDH
	PROJECT: ECLIPSE STYLE SHELTER	DATE: 4-21-22	DATE: 4-21-22	
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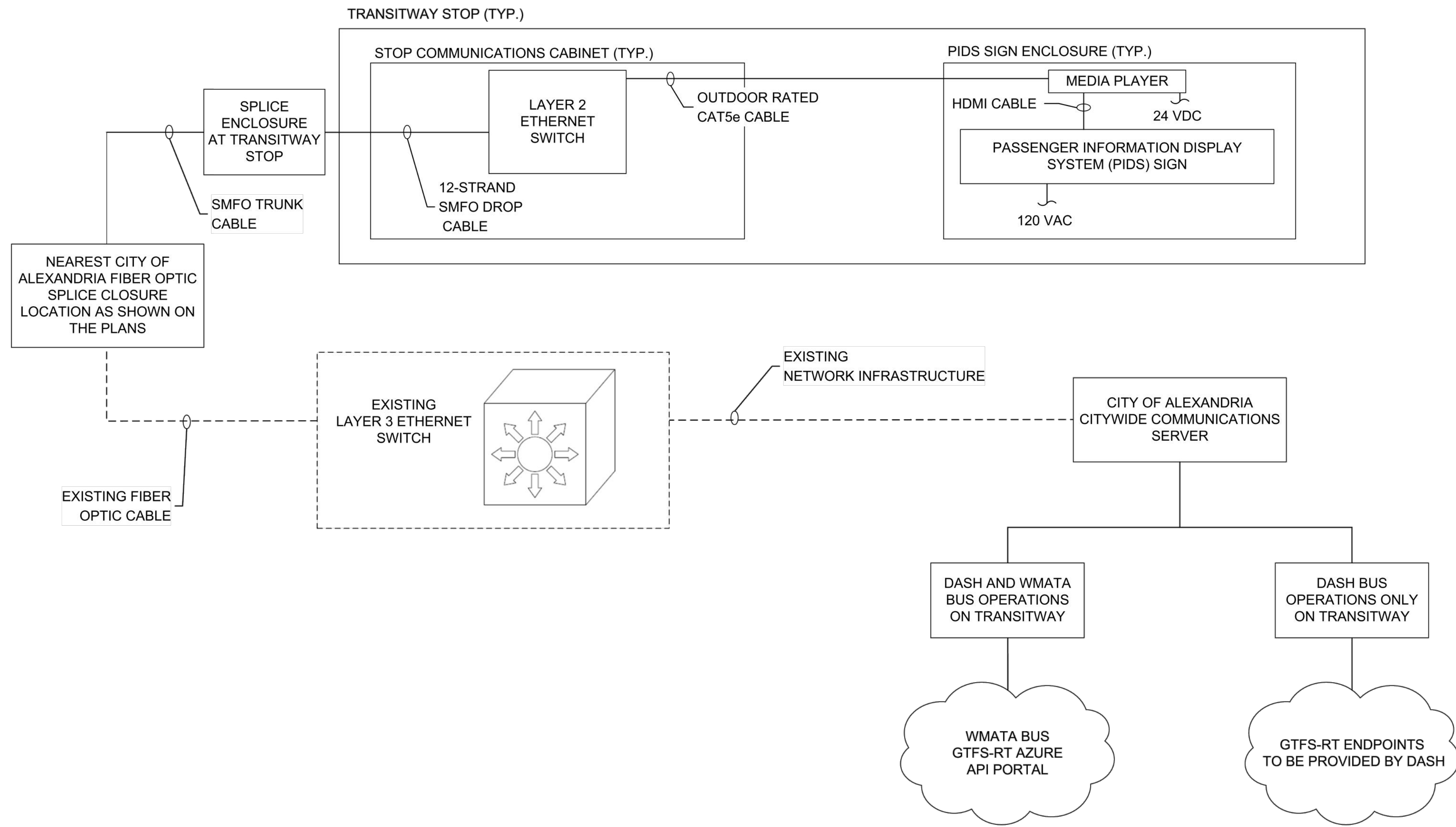
REVISIONS

DATE	DESCRIPTION
11/04/22	
07/12/24	
N/A	
11/15/23	
12/06/23	
12/12/23	
12/14/23	

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DRAWN BY:	AD. DATE: 12/06/23
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Plotted By: Phillips, Mark Sheet Set: West End Transitway - Phase 1 Layout: A-112 STATION TECHNOLOGY PLANS July 12, 2024 05:25:38am K:\NVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\STATION TECHNOLOGY PLANS.dwg

TYPICAL PASSENGER INFORMATION DISPLAY SYSTEM (PIDS) CONCEPTUAL BLOCK DIAGRAM



NOTES:

1. THE CONTRACTOR SHALL FURNISH, INSTALL, INTEGRATE, AND PERFORM OPERATIONAL ACCEPTANCE TESTING FOR A FULL TURNKEY PASSENGER INFORMATION DISPLAY SYSTEM (PIDS), UNLESS OTHERWISE NOTED.
2. THE PIDS SHALL CONSIST OF AN OUTDOOR RATED AND VANDAL RESISTANT LCD DISPLAY, AN OUTDOOR RATED MEDIA PLAYER AND ASSOCIATED DEVICE CONNECTION COMPONENTS, AND AN ADA ACCESSIBLE PUSH BUTTON ACTUATOR AND SPEAKER ASSEMBLY AT EACH TRANSITWAY STOP.
3. THE PIDS SHALL BE COMPATIBLE WITH THE EXISTING WMATA MICROSOFT AZURE HOST SERVICE USED WITHIN THE WMATA NETWORK. WMATA HOST SERVICE INCLUDES REAL TIME INFORMATION FOR BOTH WMATA AND DASH BUS SERVICE. IF THE TRANSITWAY OPERATES DASH BUS SERVICE ONLY, THE PIDS SHALL BE COMPATIBLE WITH THE EXISTING GTFS-RT END POINT DATA TO BE PROVIDED BY DASH.
4. THE PIDS COMPONENTS AND SYSTEM HARDWARE SHALL CONFORM TO THE LATEST APPROVED VERSION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND BE COMPLIANT WITH BOTH THE AMERICANS WITH DISABILITIES ACT (ADA) AND NATIONAL TRANSPORTATION COMMUNICATIONS FOR ITS PROTOCOL (NTCIP) SPECIFICATIONS.
5. THE CONTRACTOR WILL BE RESPONSIBLE FOR CONTENT DEVELOPMENT COORDINATION WITH DASH, PROGRAMMING, AND TESTING THAT THE PIDS SIGNS DISPLAY THE CORRECT INFORMATION AND THAT THE PUSH BUTTON ACTUATOR AND SPEAKER ENUNCIATES THE CORRECT MESSAGE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION OF ALL PIDS COMPONENTS AT EACH TRANSITWAY STATION AND FOR PROVIDING AND INSTALLING POWER, COMMUNICATIONS, AND DEVICE CONNECTION CABLING.

90% DESIGN PHASE



CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

REVISIONS	DESCRIPTION
DATE	BY

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CONSULTANT PROJECT ID.:	N/A
DESIGNED BY:	DATE:
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APPROVED BY:	DATE:

WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

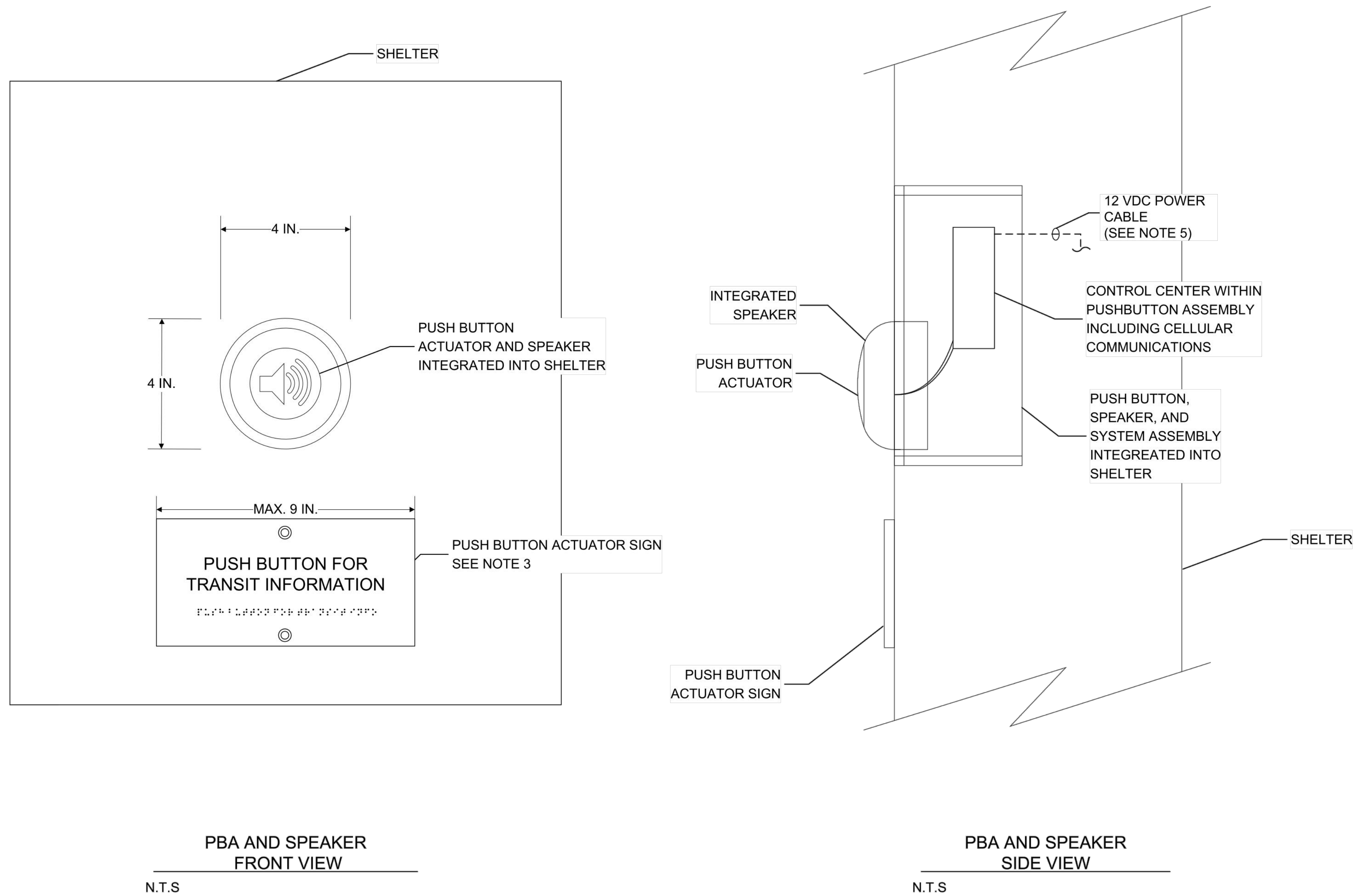
STATION TECHNOLOGY PLANS

SHEET A-120

SCALE N/A

Plotted By: Waring, Megan Sheet Set: West End Transitway - Phase 1 Station Technology Plans - Phase 1 Layout: A-113 Station Technology Plans July 11, 2024 02:37:17pm K:\VVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\STATION TECHNOLOGY PLANS.dwg

TYPICAL PASSENGER INFORMATION DISPLAY SYSTEM PUSH BUTTON ACTUATOR (PBA) AND SPEAKER DETAIL



NOTES:

1. THE CONTRACTOR SHALL FURNISH, INSTALL, INTEGRATE, AND PERFORM OPERATIONAL ACCEPTANCE TESTING FOR AN ADA ACCESSIBLE PUSH BUTTON ACTUATOR AND SPEAKER ASSEMBLY AT EACH TRANSITWAY STOP.
2. THE PUSH BUTTON ACTUATOR AND SPEAKER ASSEMBLY SHALL BE INTEGRATED WITHIN THE STOP SHELTER AS SHOWN ON THE ARCHITECTURAL PLANS.
3. THE SIGN SHALL READ "PUSH BUTTON FOR TRANSIT INFORMATION" AND SHALL BE MOUNTED DIRECTLY UNDER THE ADA ACCESSIBLE PUSH BUTTON. THE SIGN SHALL INCLUDE BRAILLE THAT SHALL CONVEY "PUSH BUTTON FOR TRANSIT INFORMATION." THE SIGN SHALL BE CONSTRUCTED OF ALUMINUM AND HAVE HIGH INTENSITY PRISMATIC SHEETING.
4. THE PUSH BUTTON ACTUATOR AND SPEAKER ASSEMBLY SHALL TRANSMIT AN AUDIBLE MESSAGE THAT COMMUNICATES CURRENT REAL-TIME BUS ARRIVAL INFORMATION ACCORDING TO AVAILABLE WMATA AND/OR DASH INFORMATION AND THE STOP LOCATION OBTAINED VIA INTEGRATED CELLULAR COMMUNICATIONS.
5. THE OUTDOOR RATED POWER CABLE REQUIRED FOR THE PUSH BUTTON ACTUATOR AND SPEAKER ASSEMBLY SHALL BE ROUTED THROUGH CONDUIT IN THE STOP SHELTER TO THE STOP ELECTRICAL CABINET. SEE ELECTRICAL PLANS FOR EQUIPMENT POWER.

WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS 90% DESIGN PHASE



CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

REVISIONS	DESCRIPTION
DATE	BY

ALEXANDRIA PROJECT NO.: 110104122
 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: DATE: _____
 DRAWN BY: DATE: _____
 CHECKED BY: DATE: _____
 APPROVED BY: DATE: _____

STATION TECHNOLOGY PLANS

SHEET A-121
 SCALE N/A

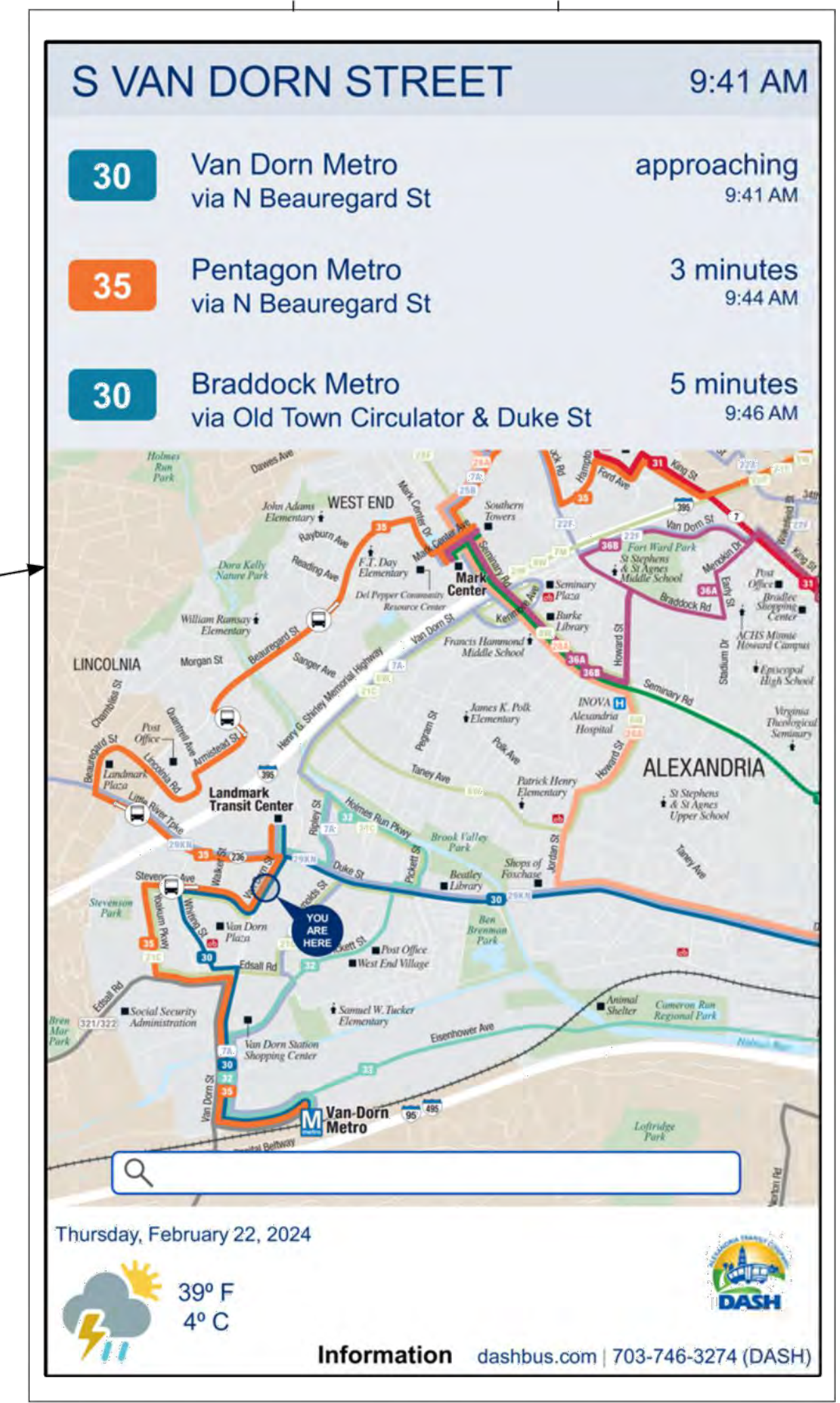
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TYPICAL PASSENGER INFORMATION DISPLAY SYSTEM (PIDS) SIGN DETAIL

OUTDOOR RATED HDMI CABLE BETWEEN PIDS SIGN AND MEDIA PLAYER MOUNTED TO THE BACK OF THE PIDS SIGN

120 VAC POWER CABLE BETWEEN STOP ELECTRICAL CABINET AND SIGN ENCLOSURE

LCD DISPLAY VIEWING WINDOW



PASSENGER INFORMATION DISPLAY SYSTEM SIGN
FRONT VIEW

N.T.S

NOTES:

1. THE CONTRACTOR SHALL FURNISH, INSTALL, INTEGRATE, AND PERFORM OPERATIONAL ACCEPTANCE TESTING FOR THE PASSENGER INFORMATION DISPLAY SYSTEM (PIDS) SIGN AT EACH TRANSITWAY STOP.
2. THE PASSENGER INFORMATION DISPLAY SYSTEM (PIDS) SIGN SHALL ENABLE TRANSIT PASSENGERS TO VIEW REAL TIME INFORMATION FROM THE DASH GTFS-RT NETWORK FROM THE OUTDOOR RATED MEDIA PLAYER. IF WMATA IS TO OPERATE ON THE TRANSITWAY, REAL TIME INFORMATION FROM THE WMATA HOST SERVICE SHALL PROVIDE INFORMATION FOR WMATA AND DASH BUS SERVICE.
3. THE OUTDOOR RATED HDMI CABLE SHALL BE ROUTED TO THE MEDIA PLAYER HOUSED AND MOUNTED BEHIND THE PIDS SIGN IN THE PIDS SIGN ENCLOSURE.
4. THE POWER CABLE SHALL BE ROUTED THROUGH CONDUIT IN THE STOP SHELTER TO THE STOP ELECTRICAL CABINET. SEE ELECTRICAL PLANS FOR EQUIPMENT POWER.

WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE



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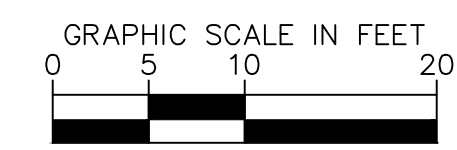
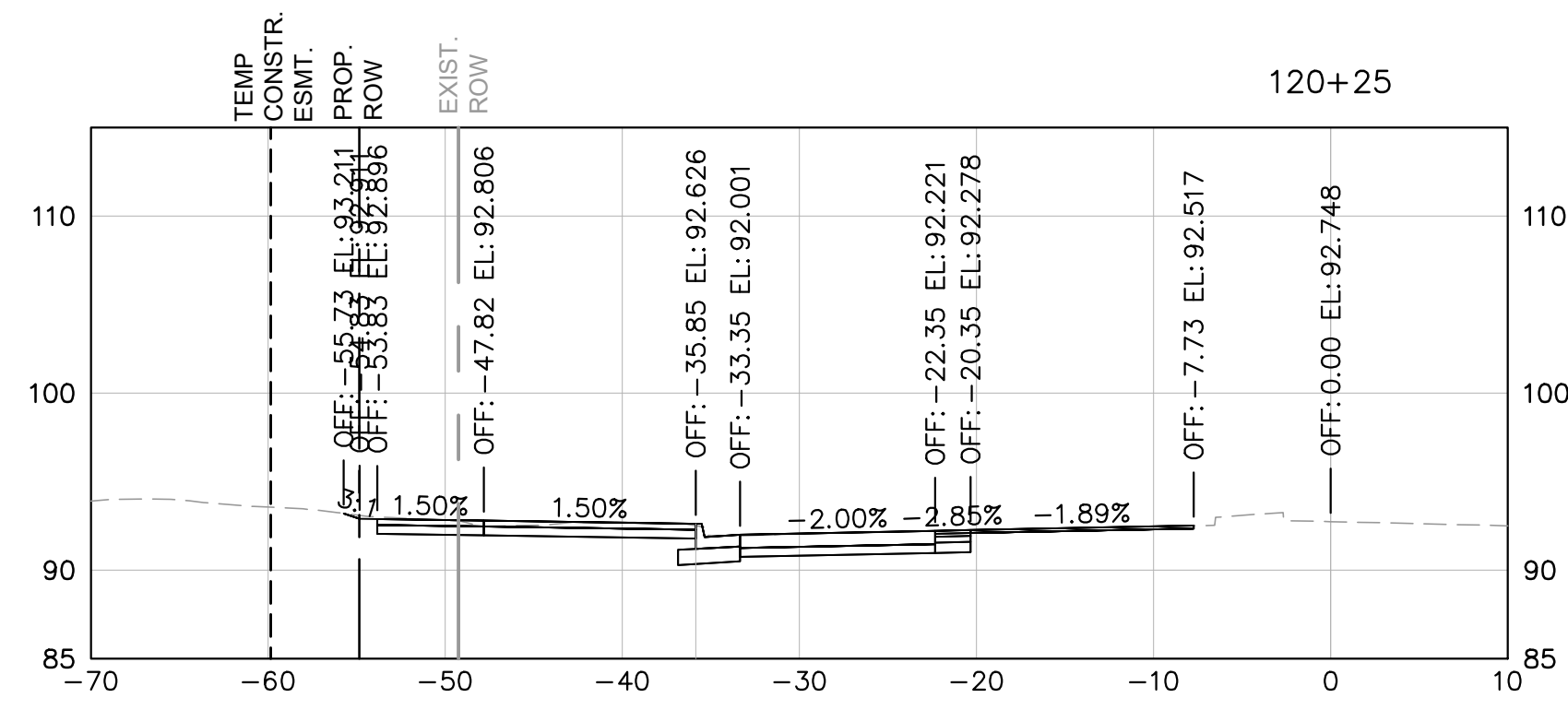
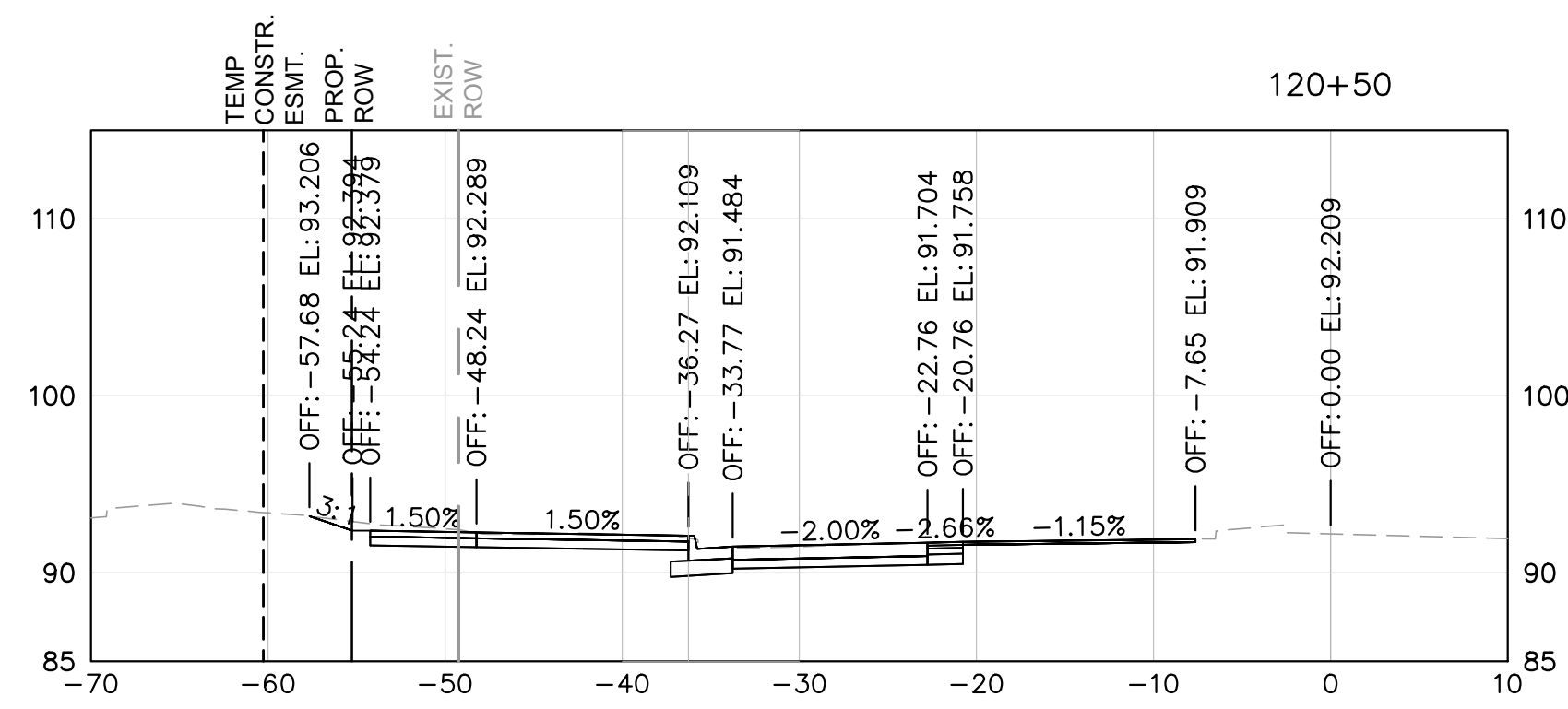
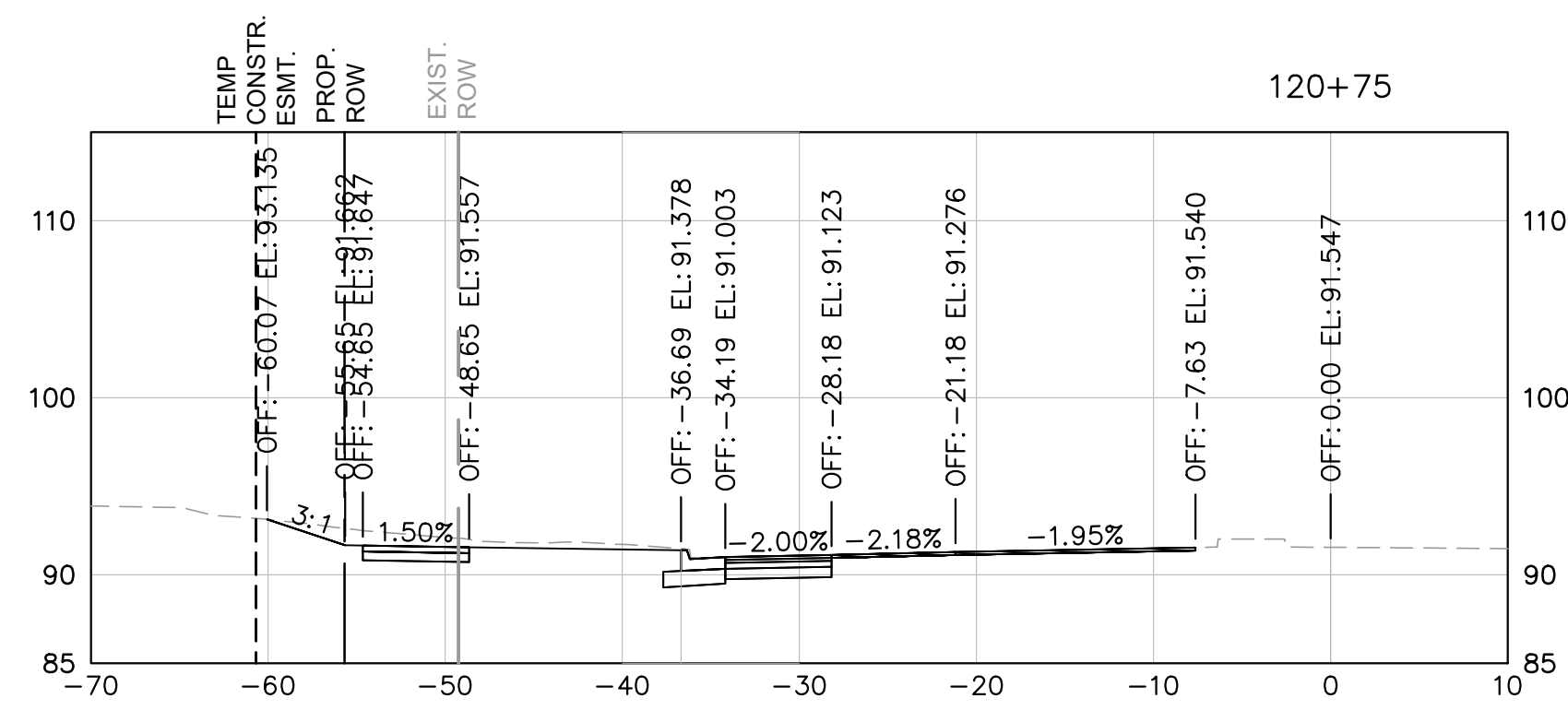
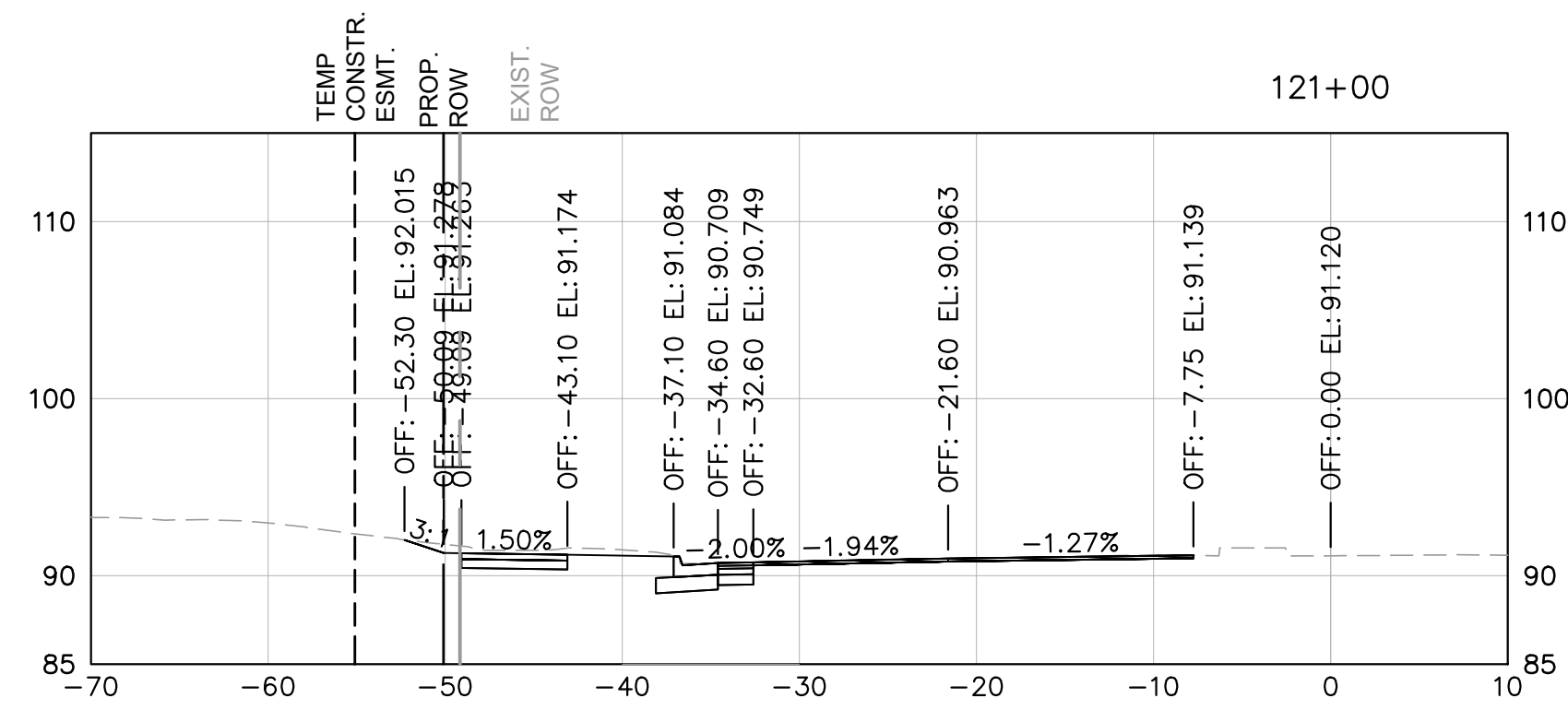
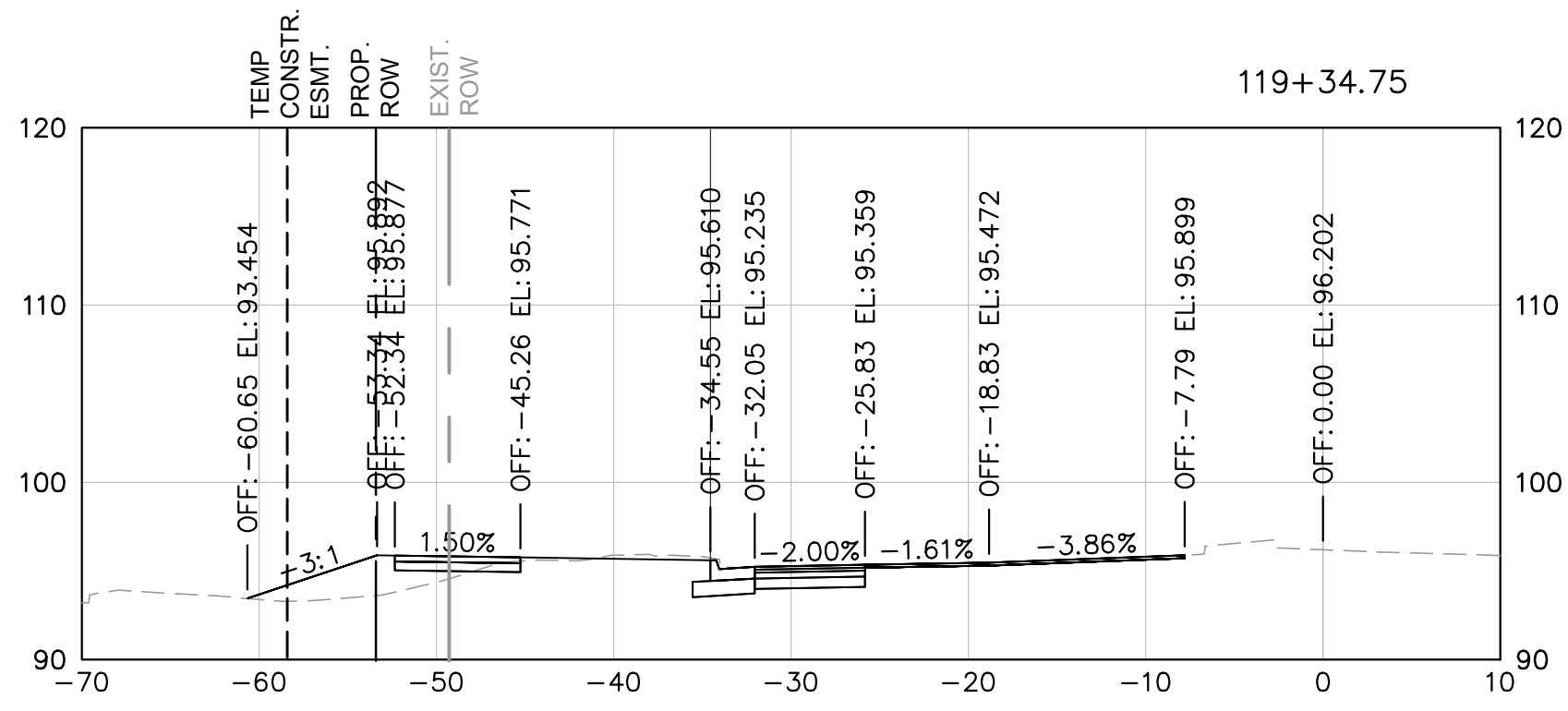
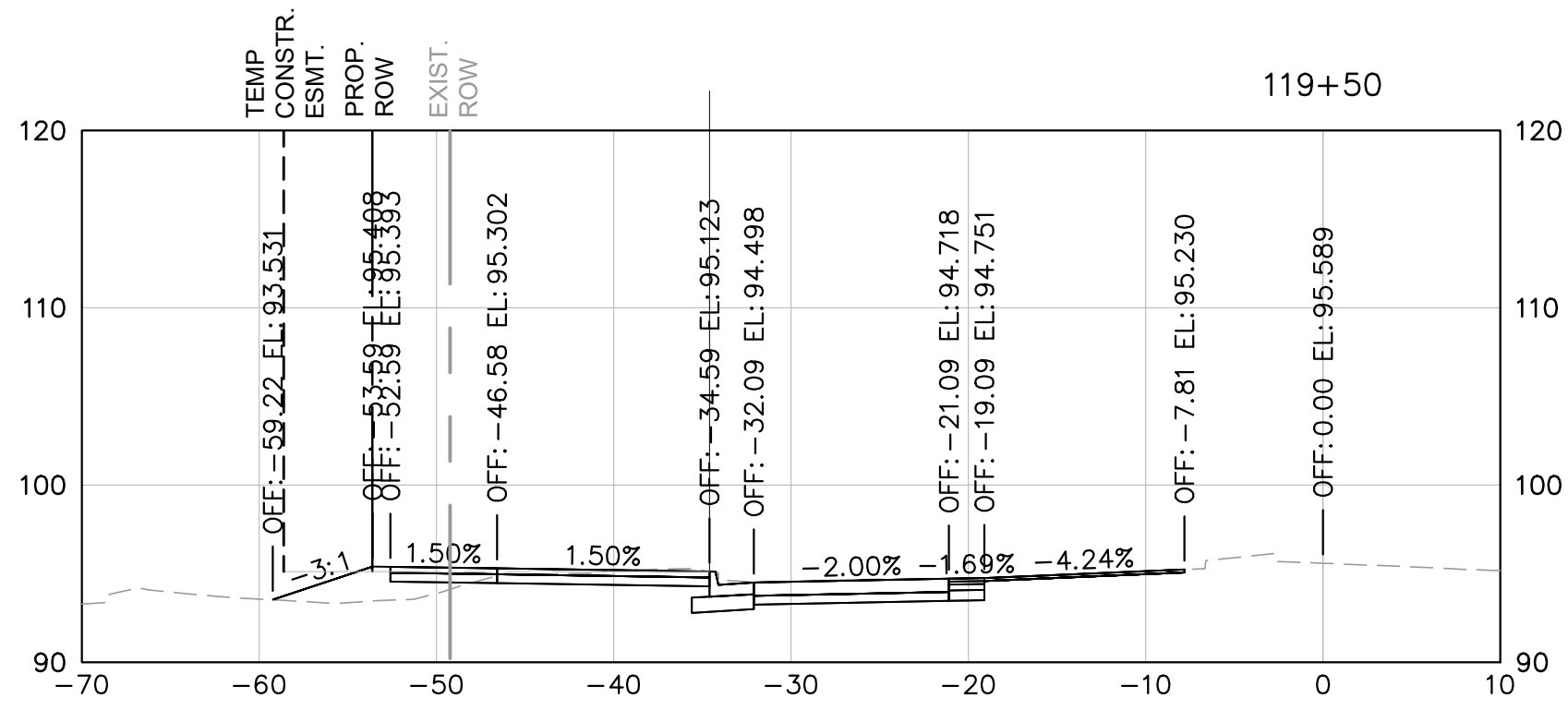
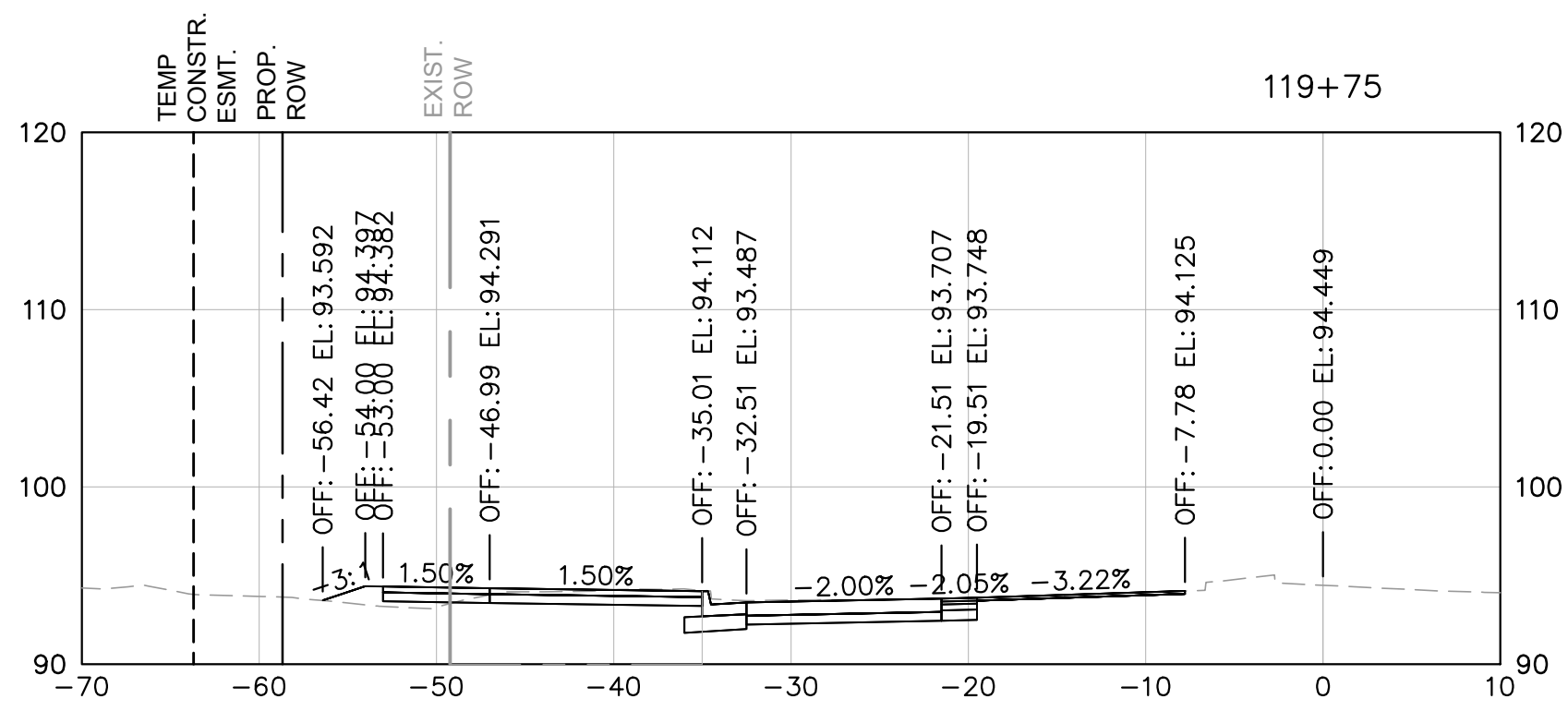
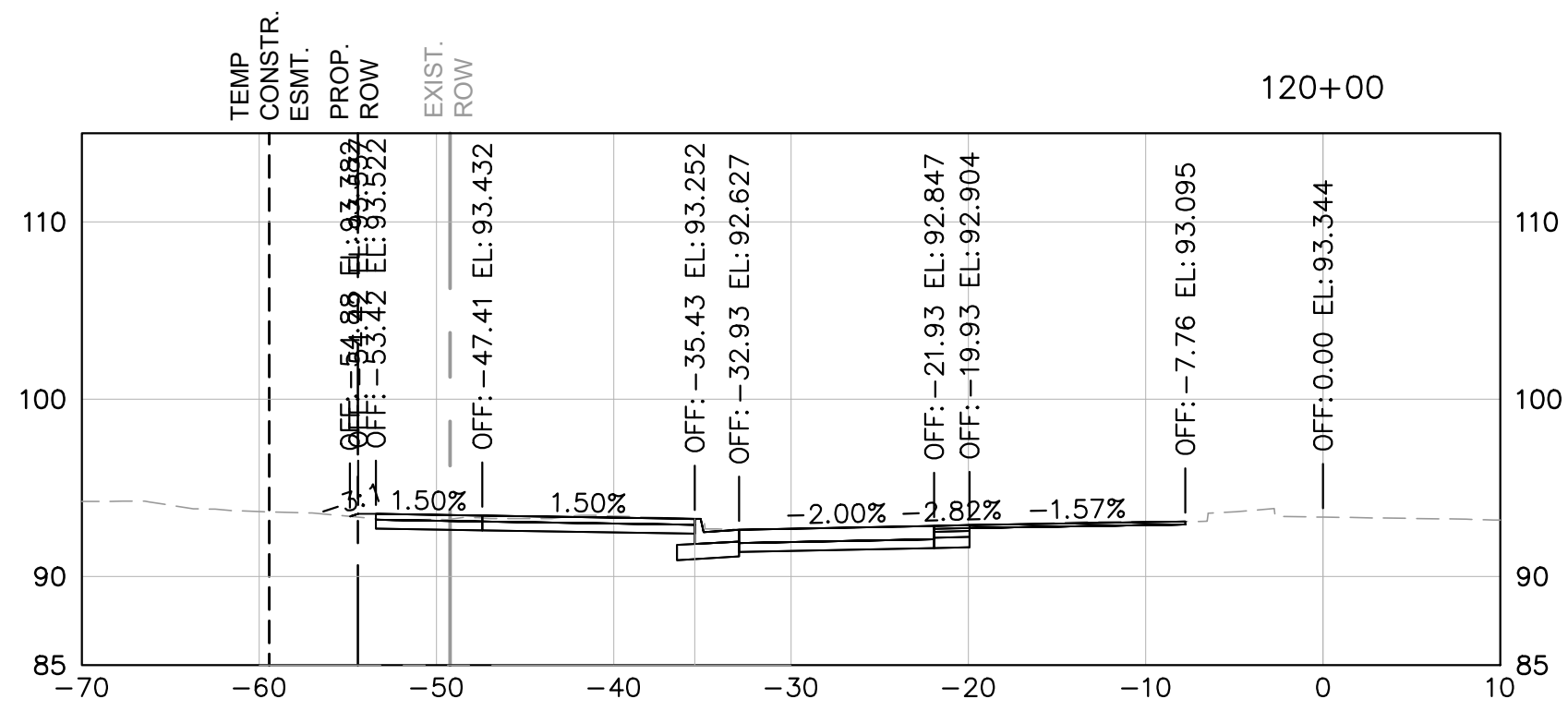
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CHECKED BY:	DATE:
APPROVED BY:	DATE:

STATION TECHNOLOGY PLANS

SHEET
A-122

SCALE N/A



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 ALEXANDRIA, VIRGINIA 22313

WEST END TRANSITWAY – PHASE 1 IMPROVEMENTS

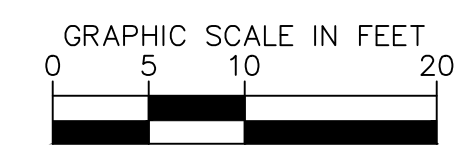
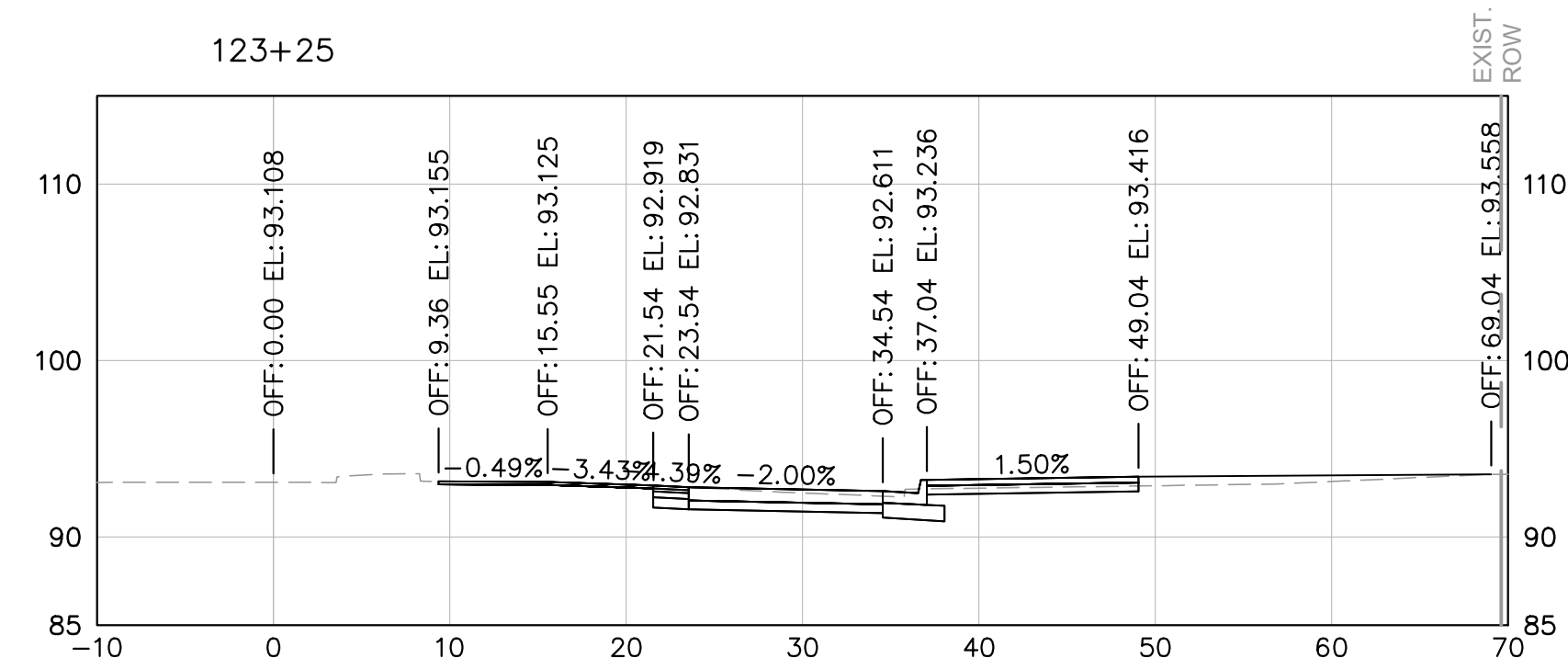
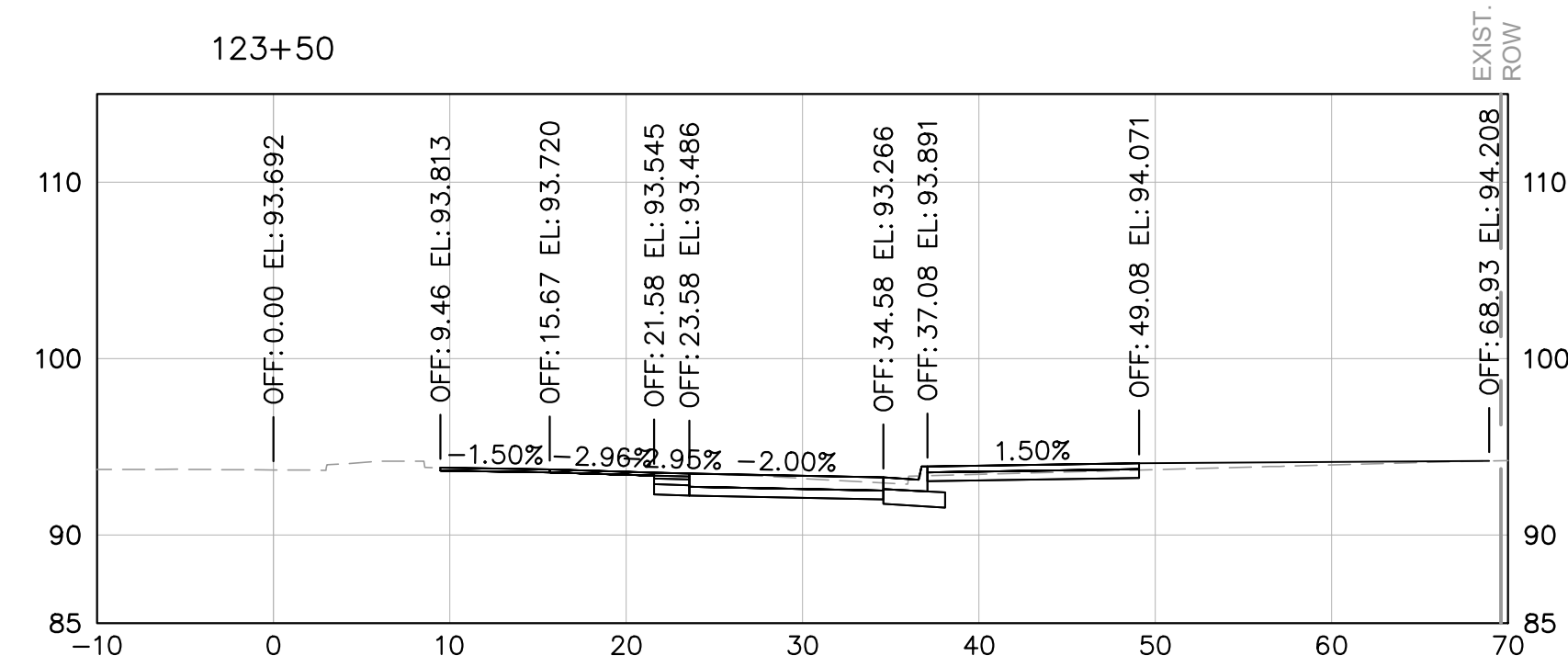
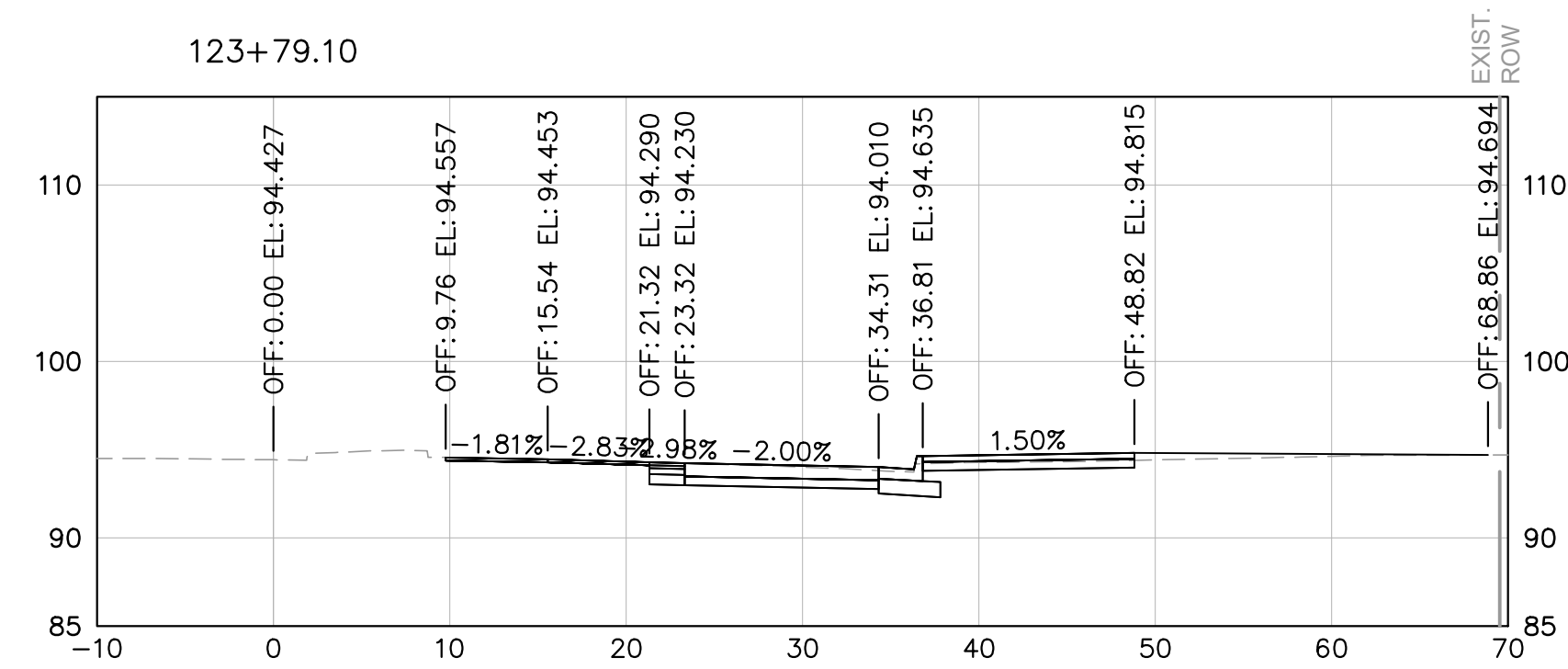
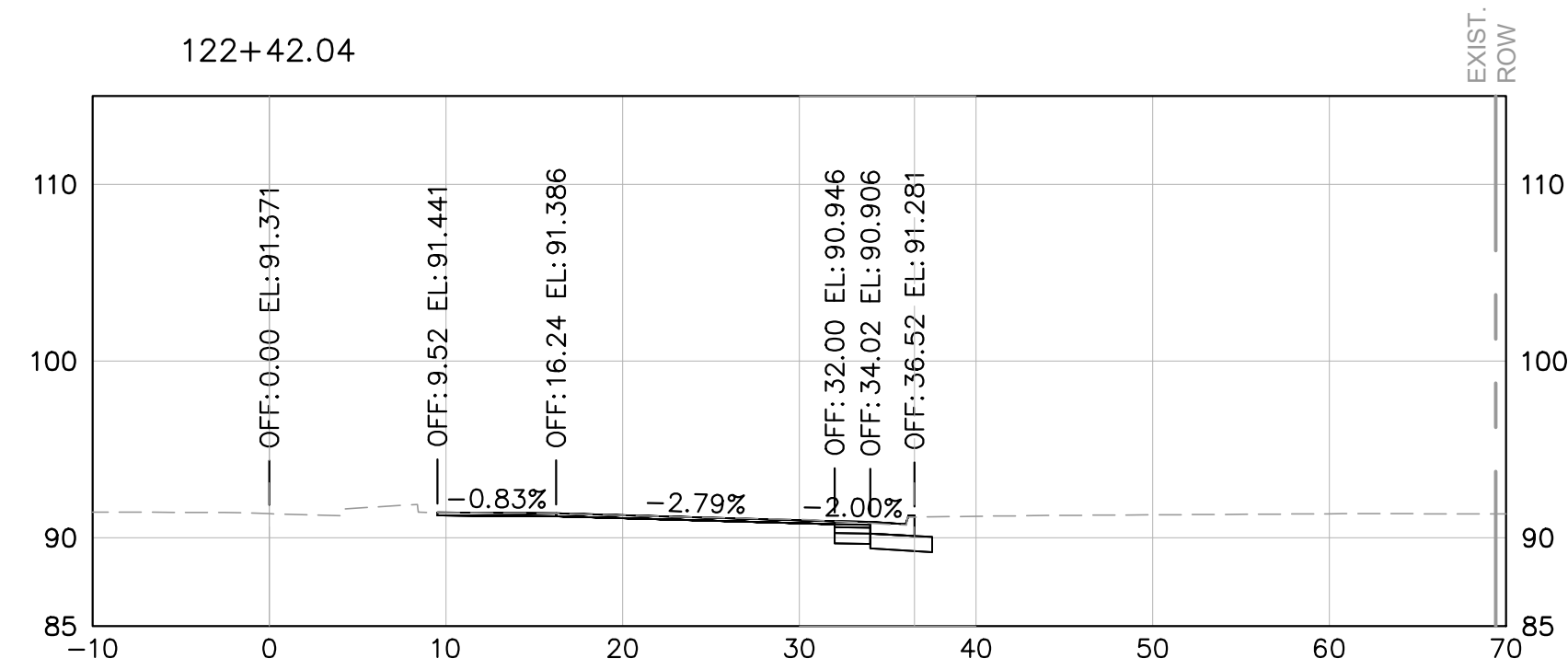
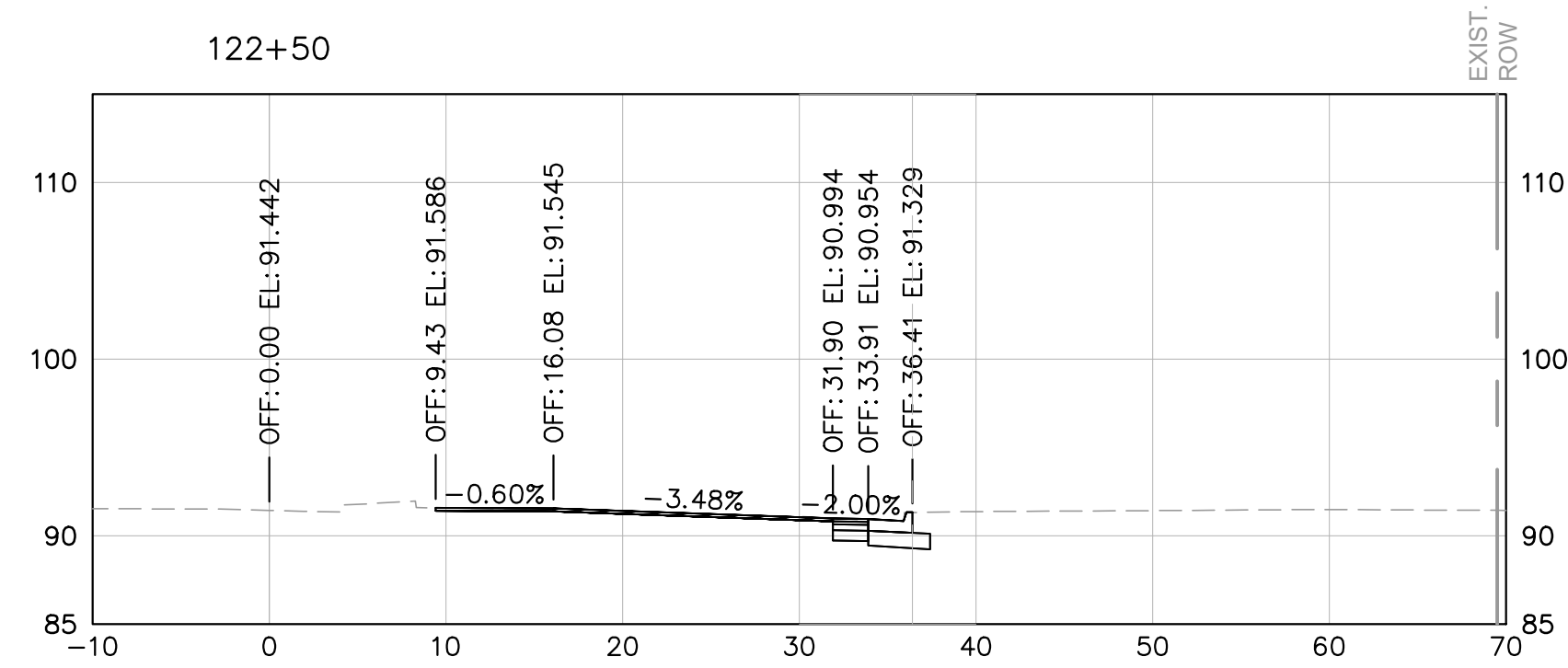
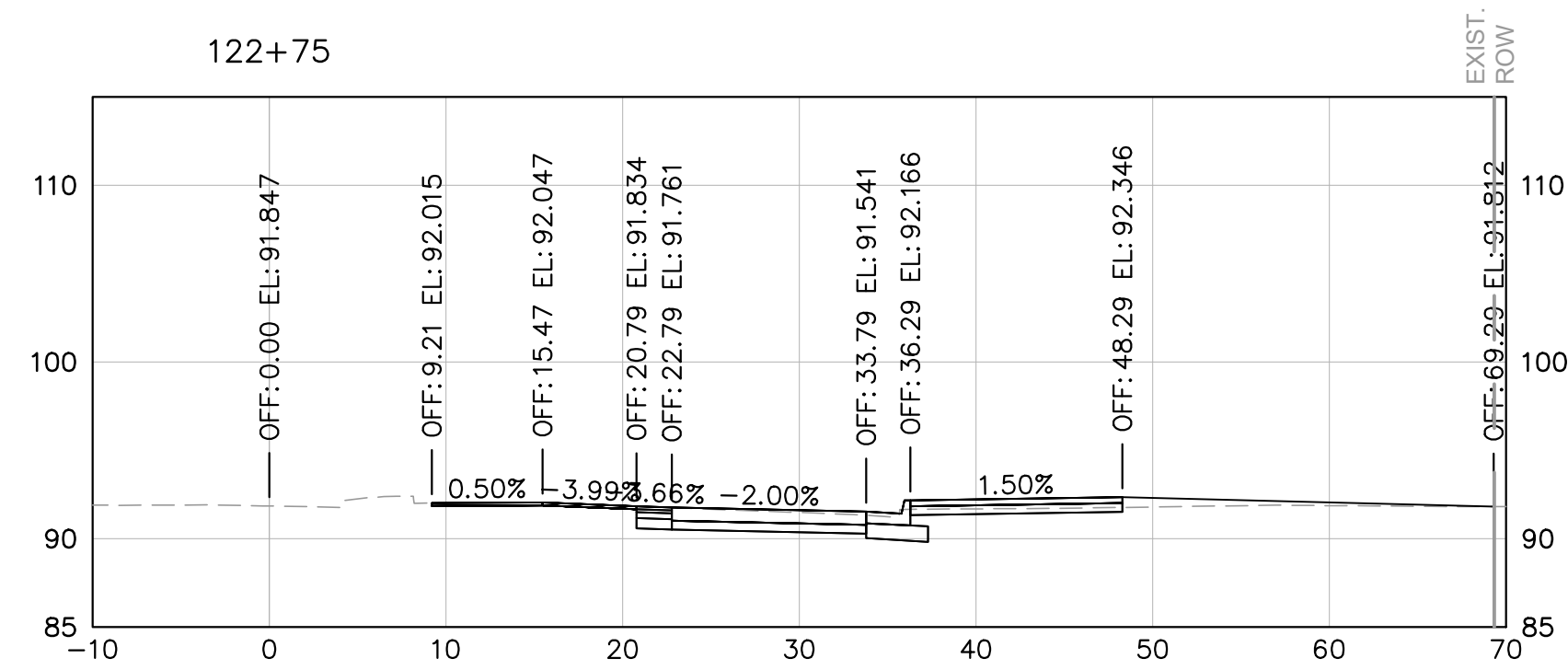
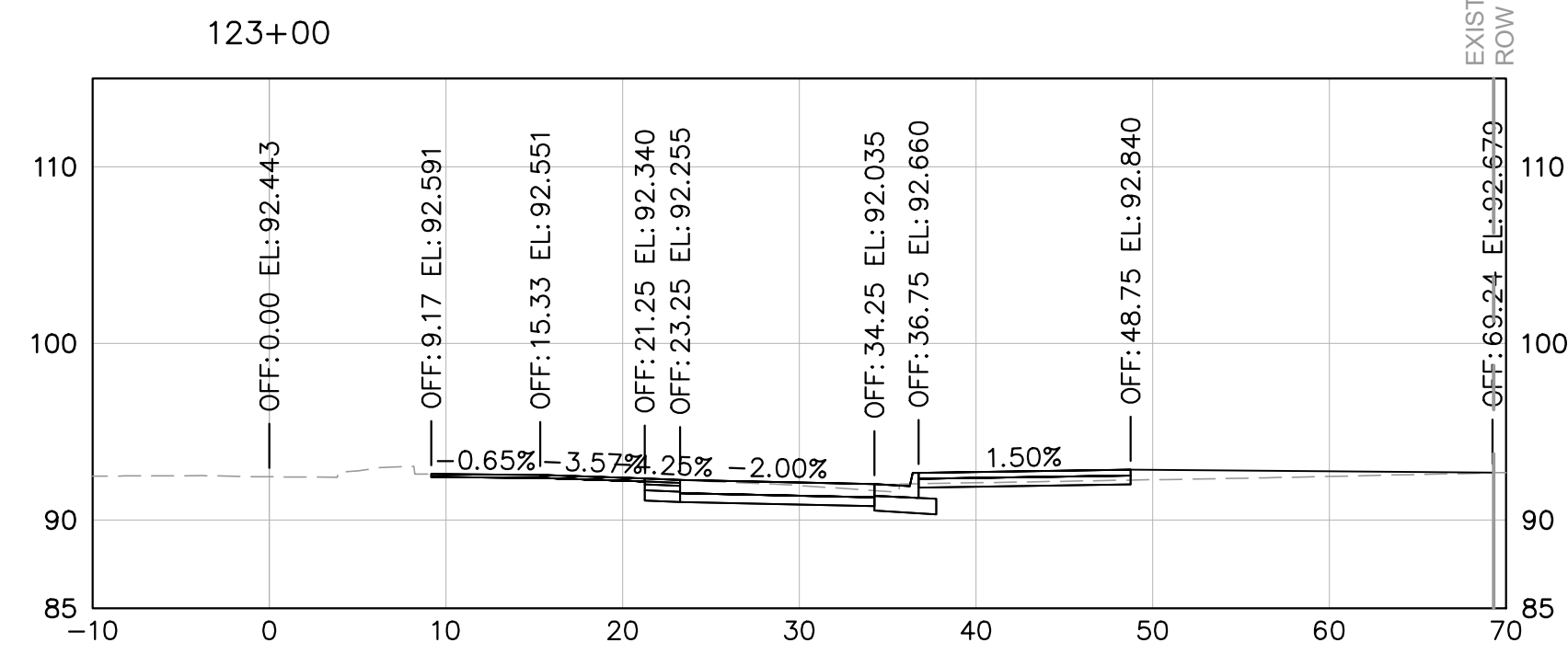
CROSS SECTIONS – S
VAN DORN STREET AT
PICKETT STREET

SHEET
 XS-1
 SCALE 1" = 10'

90% DESIGN PHASE

REVISIONS	
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ALEXANDRIA PROJECT NO.: 110104122	DATE OF PLAN ISSUANCE: N/A
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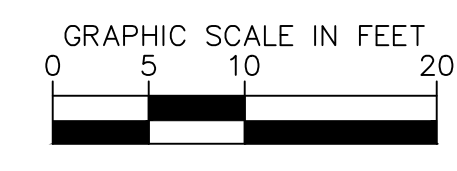
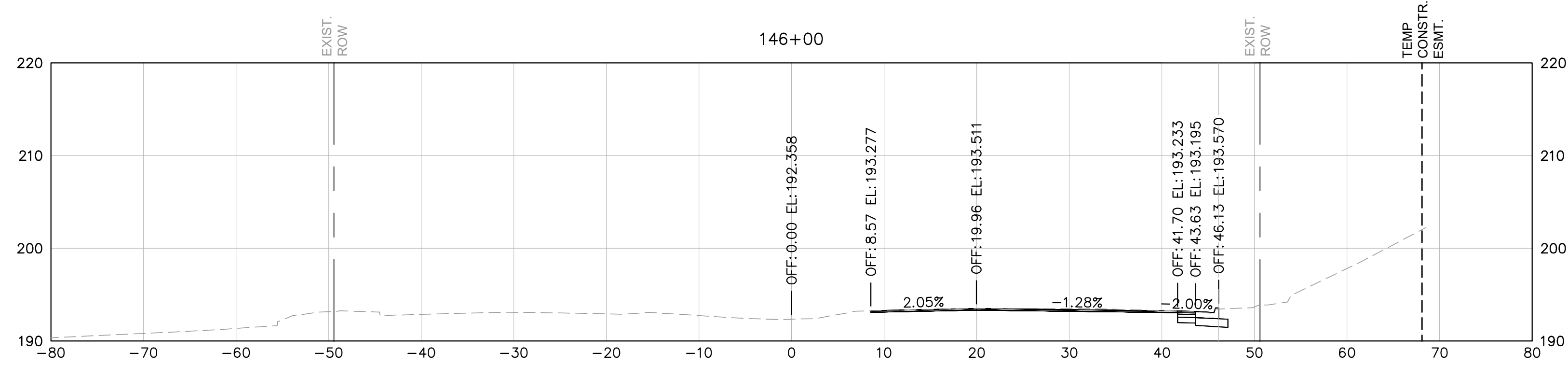
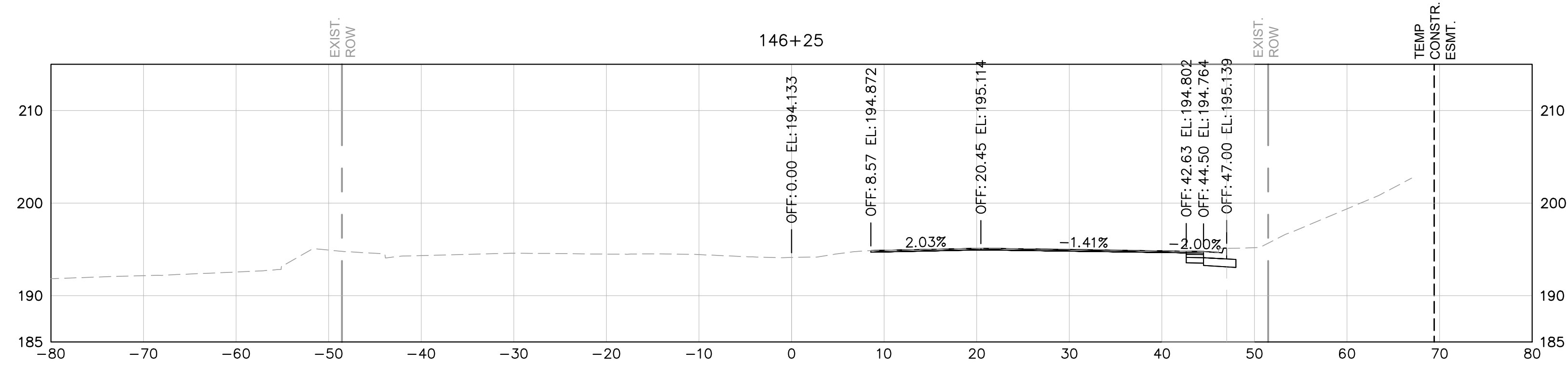
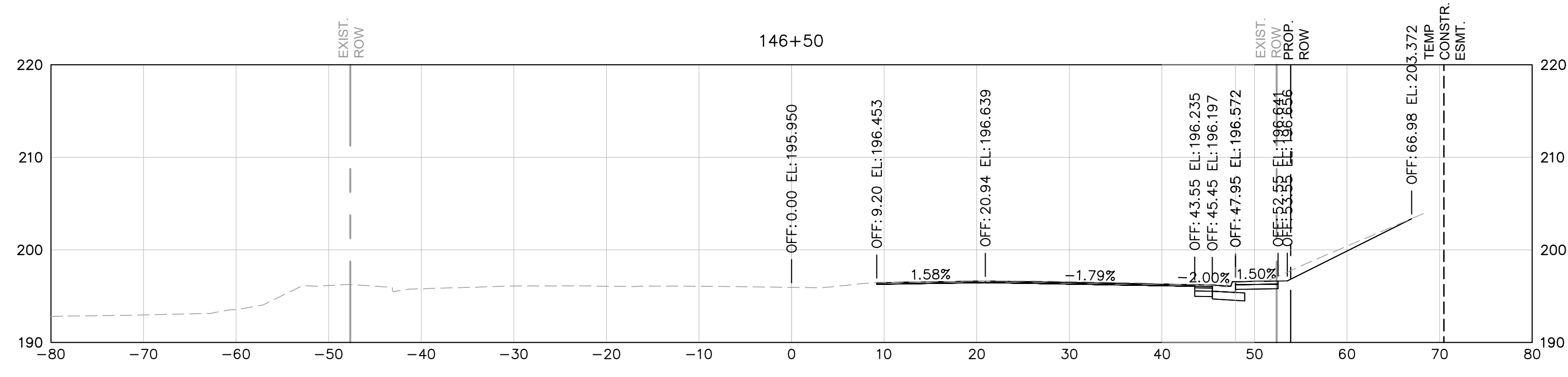
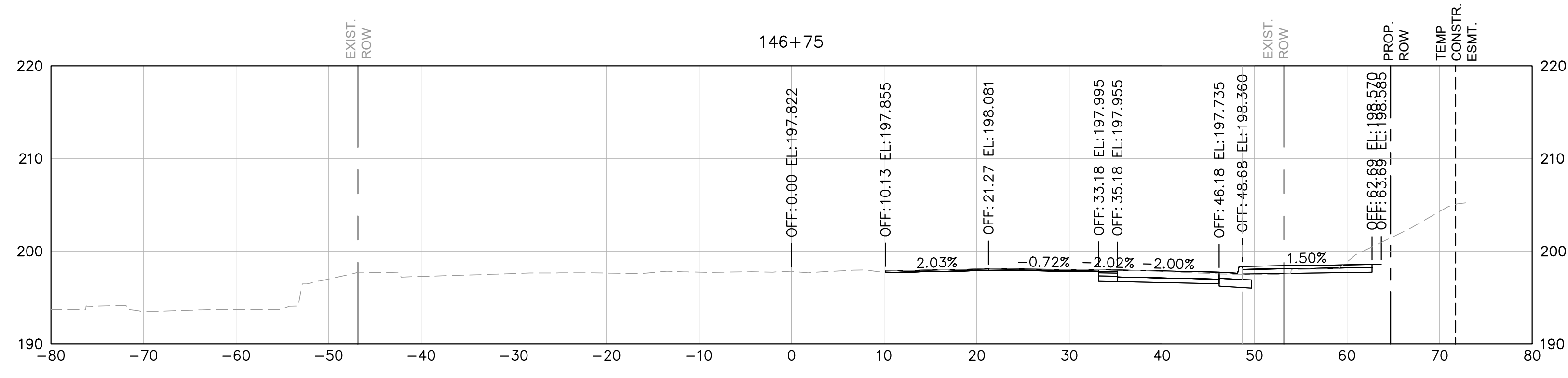
REVISIONS	DATE	DESCRIPTION

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CROSS SECTIONS – S
 VAN DORN STREET AT
 PICKETT STREET

SHEET
 XS-2
 SCALE 1" = 10'



WEST END TRANSITWAY – PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

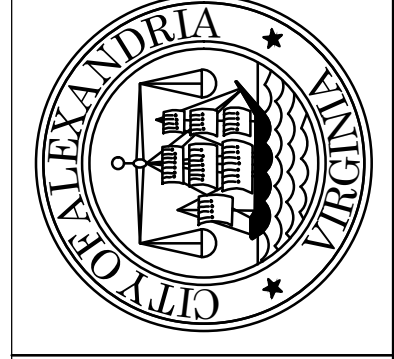
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XS-3
SCALE 1" = 10'

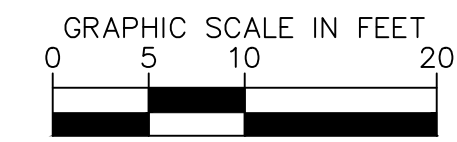
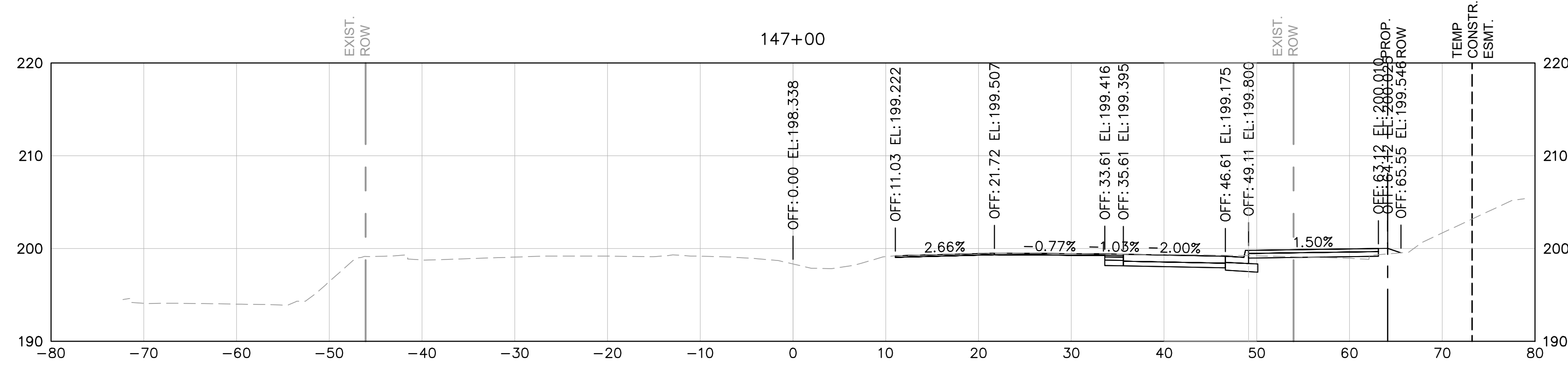
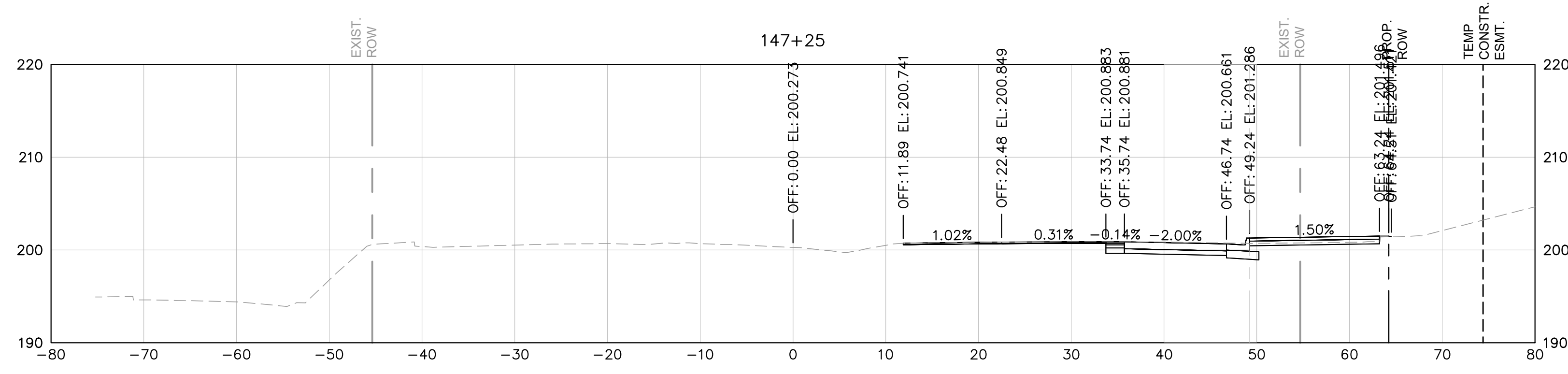
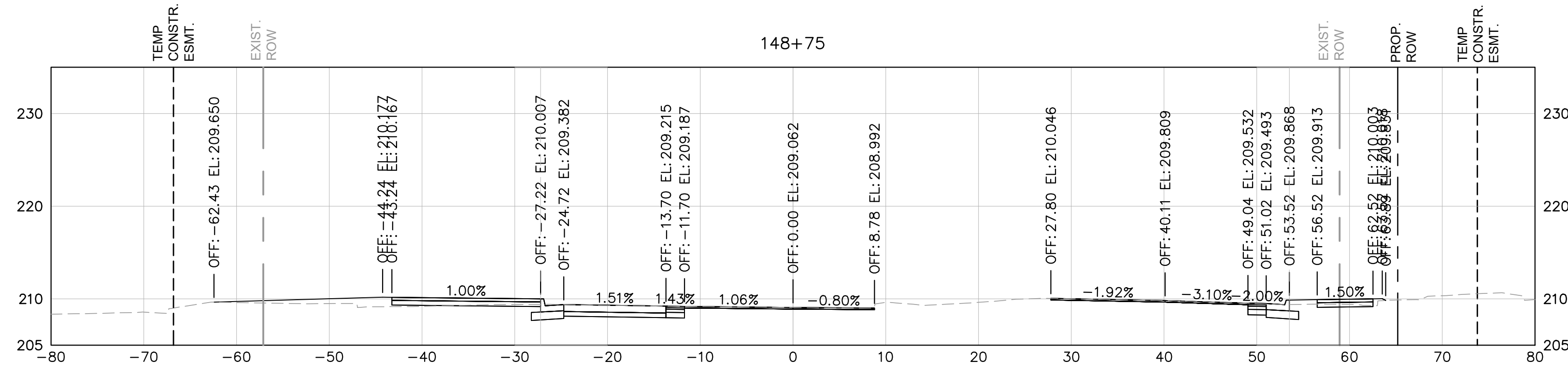
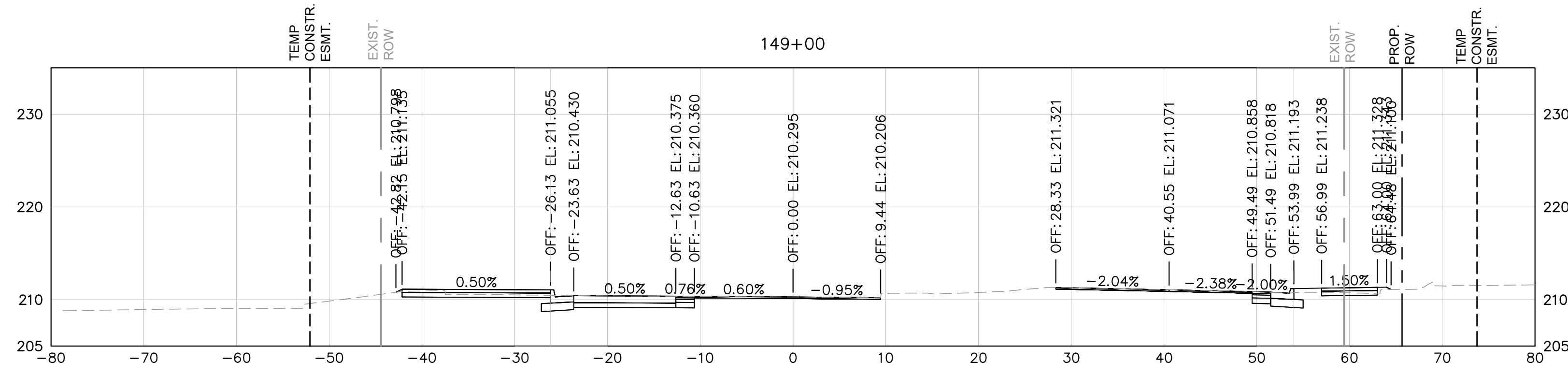
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VAN DORN STREET AT
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WEST END TRANSITWAY – PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

CROSS SECTIONS – S
VAN DORN STREET AT
STEVENSON AVENUE

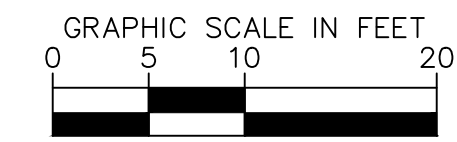
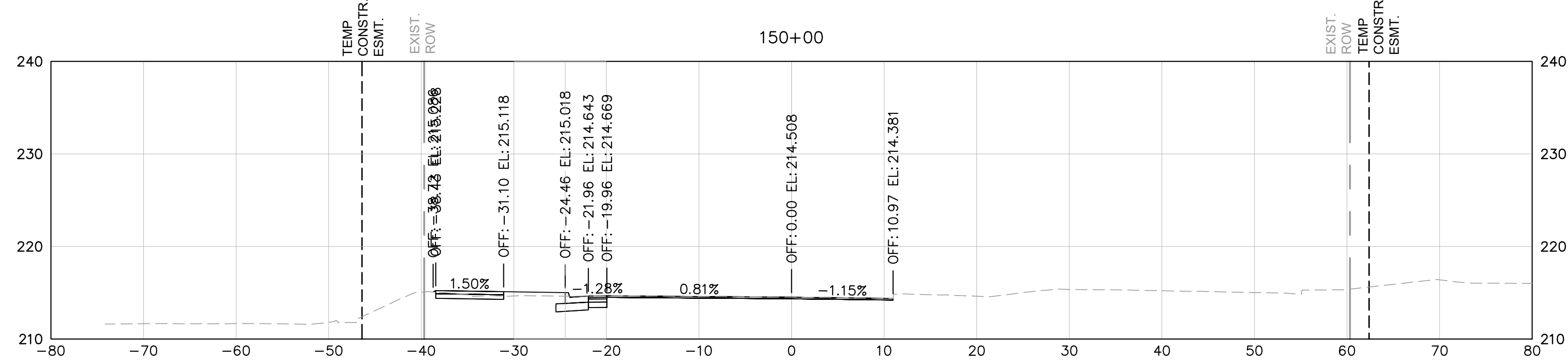
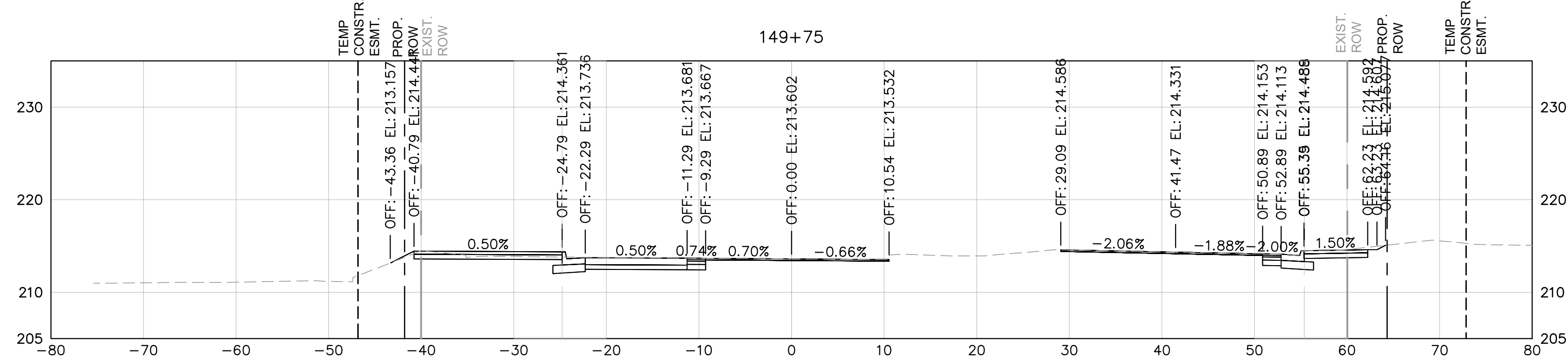
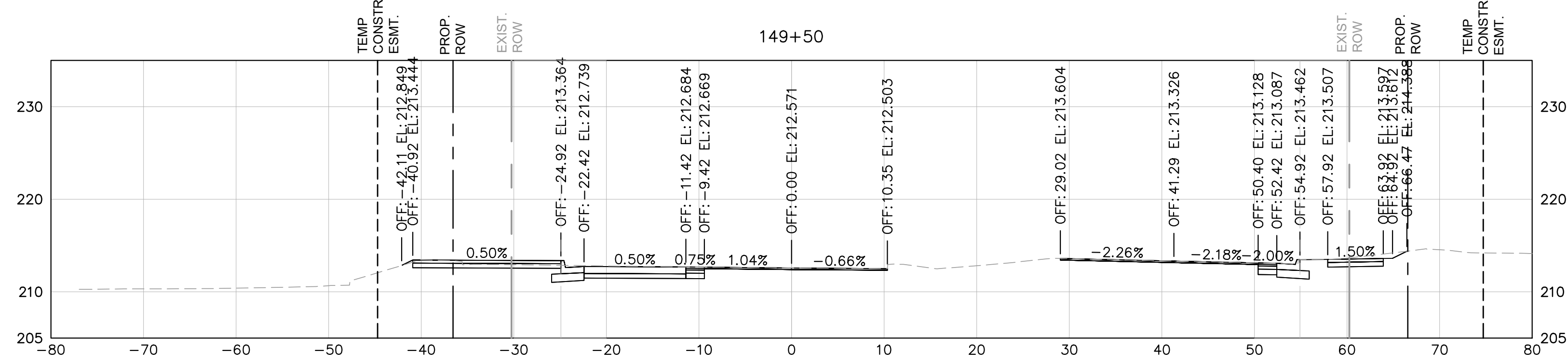
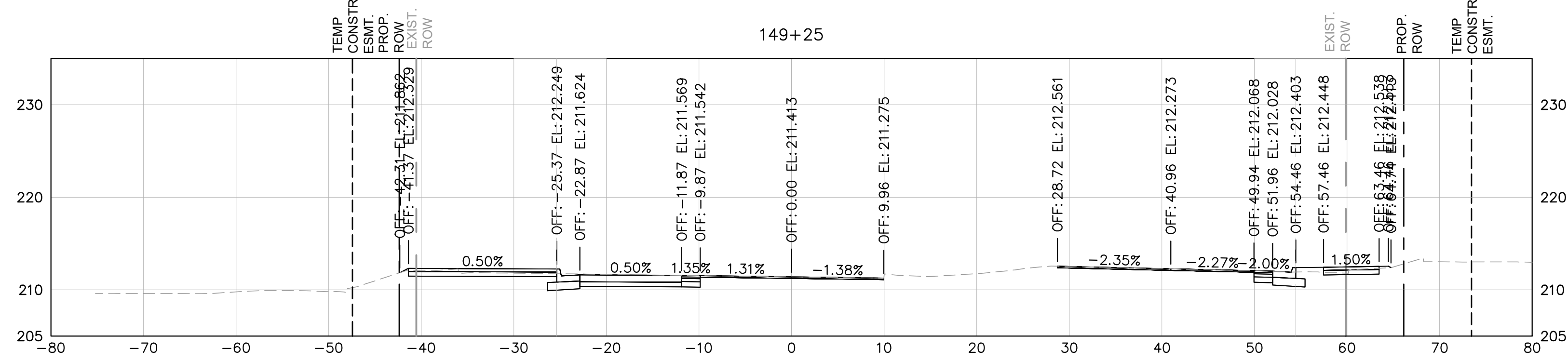
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ALEXANDRIA, VIRGINIA 22313



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SHEET
XS-4
SCALE 1" = 10'



WEST END TRANSITWAY – PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

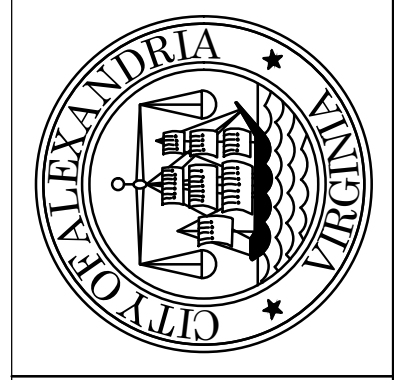
SHEET
XS-5
SCALE 1" = 10'

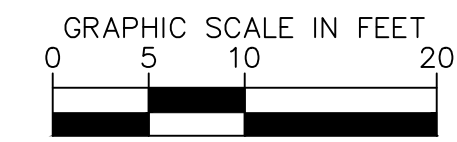
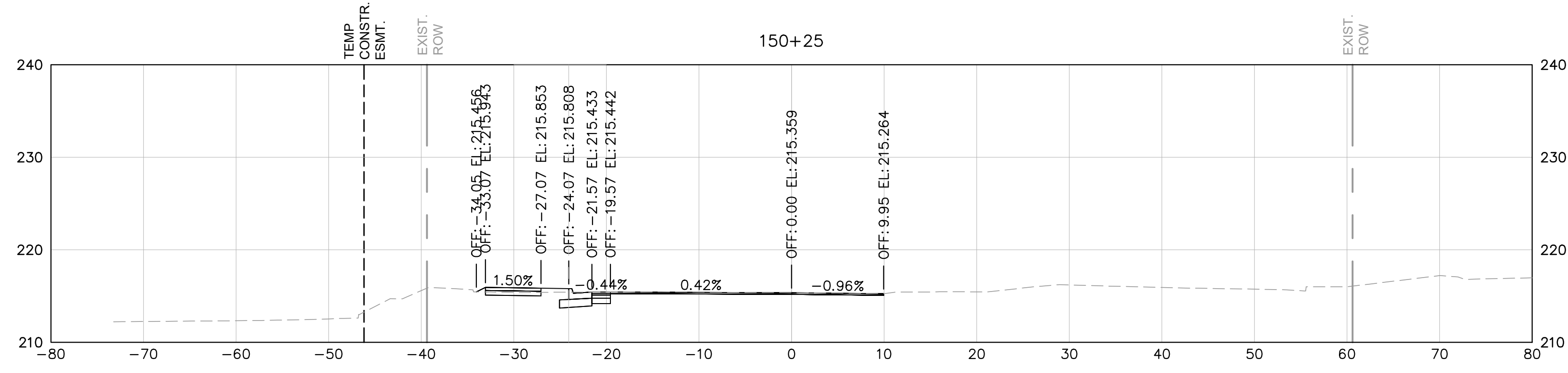
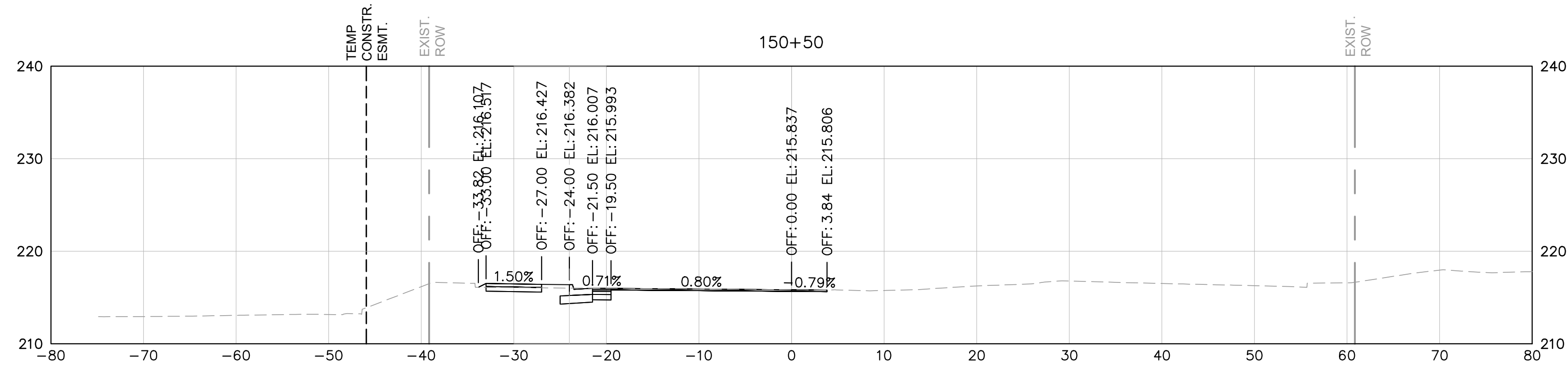
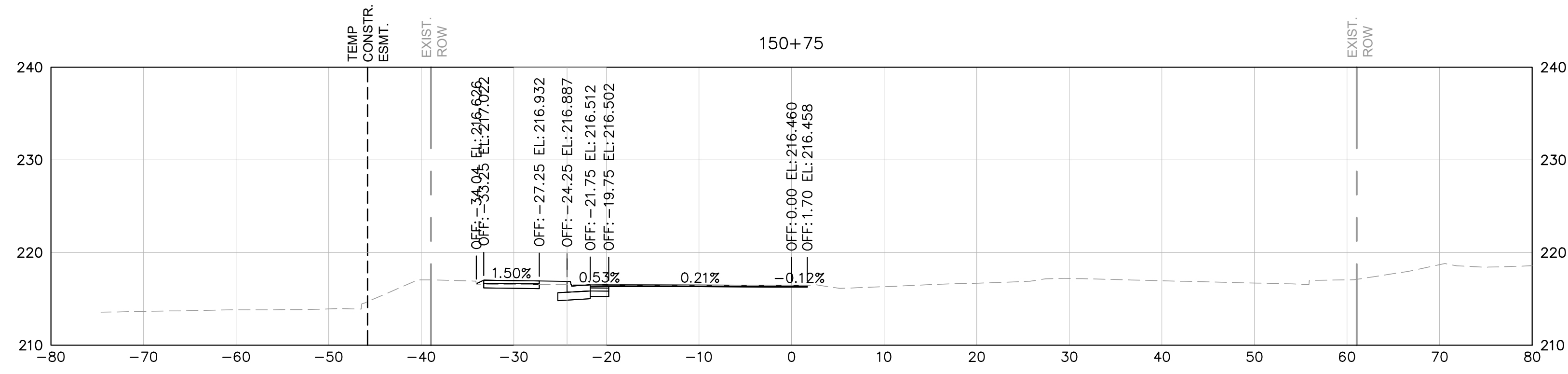
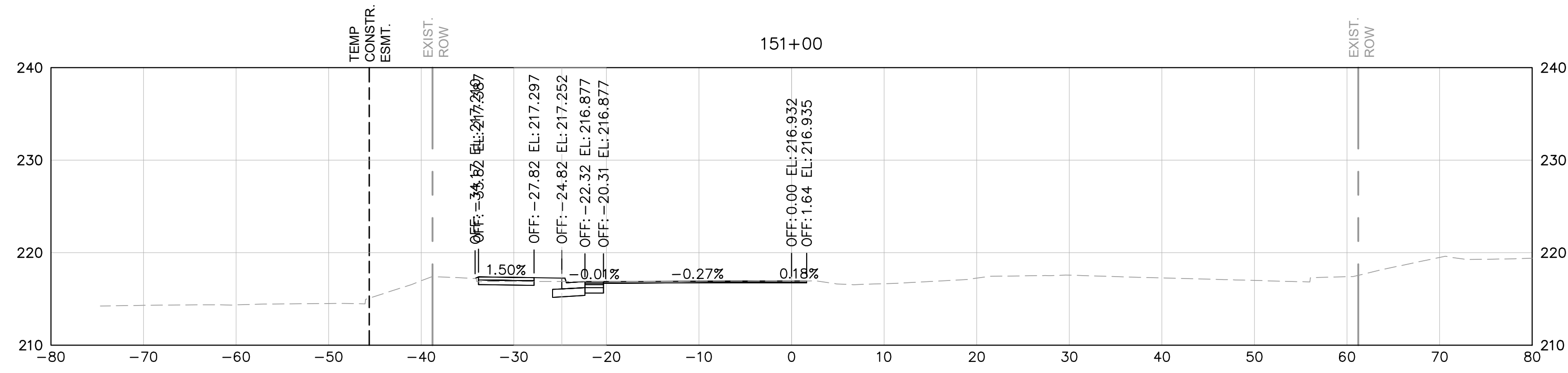
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STEVENSON AVENUE

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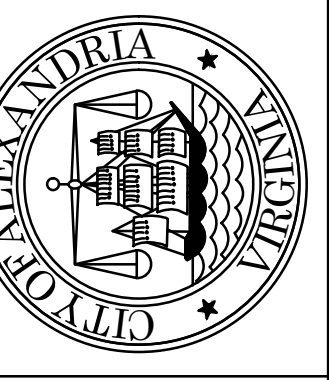
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90% DESIGN PHASE



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ALEXANDRIA, VIRGINIA 22313

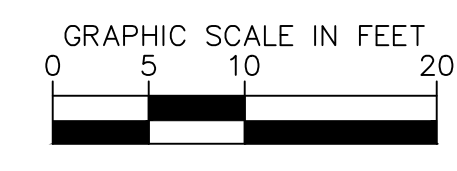
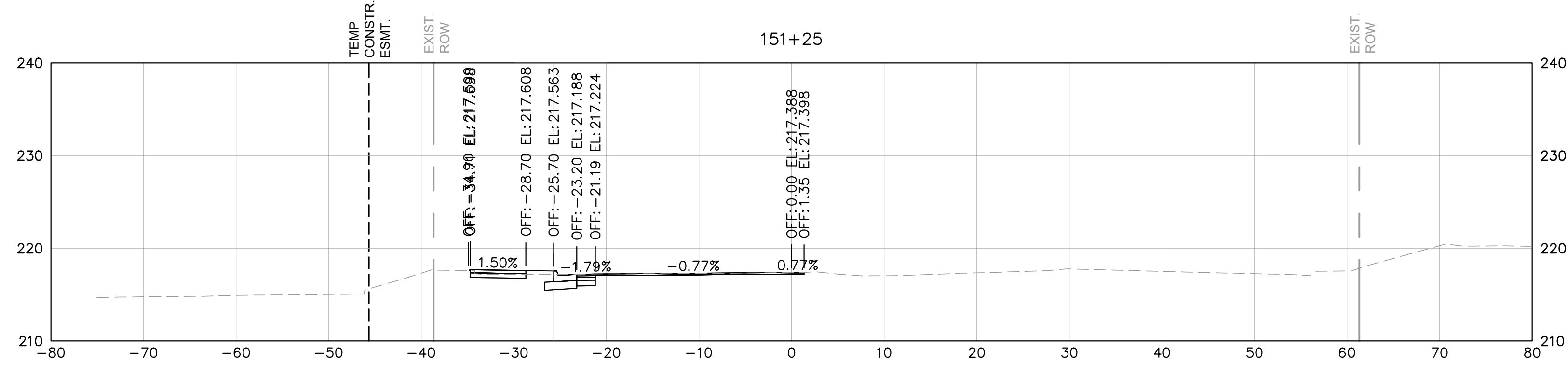
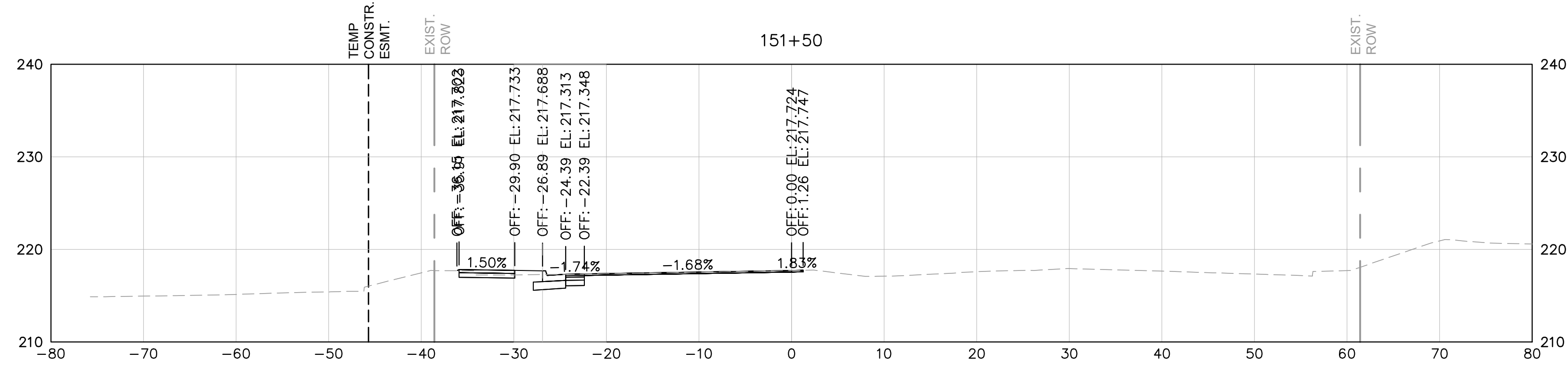
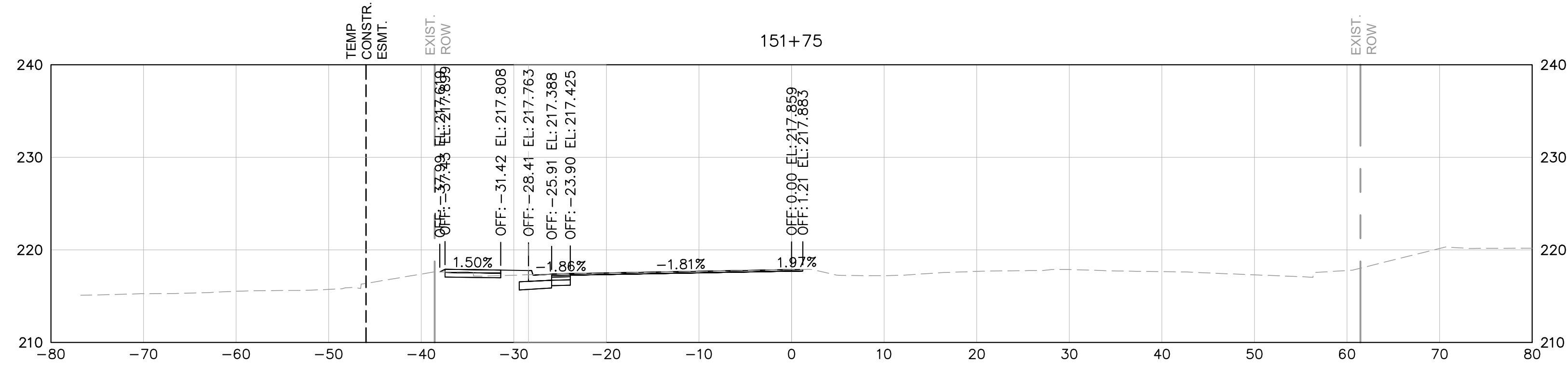
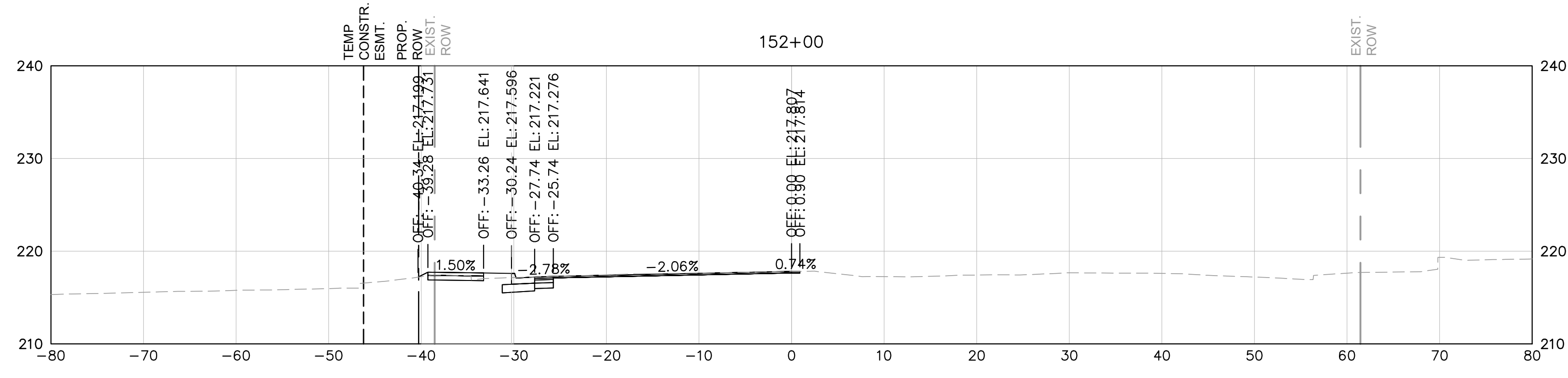
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APPROVED BY:	

WEST END TRANSITWAY – PHASE 1 IMPROVEMENTS

CROSS SECTIONS – S
VAN DORN STREET AT
STEVENSON AVENUE

SHEET
XS-6
SCALE 1" = 10'



WEST END TRANSITWAY – PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

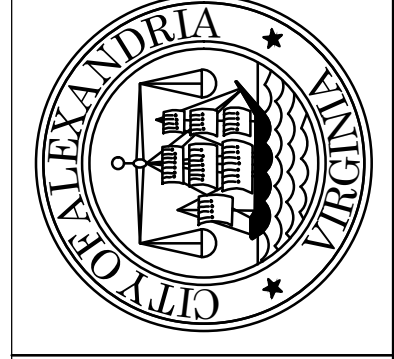
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XS-7
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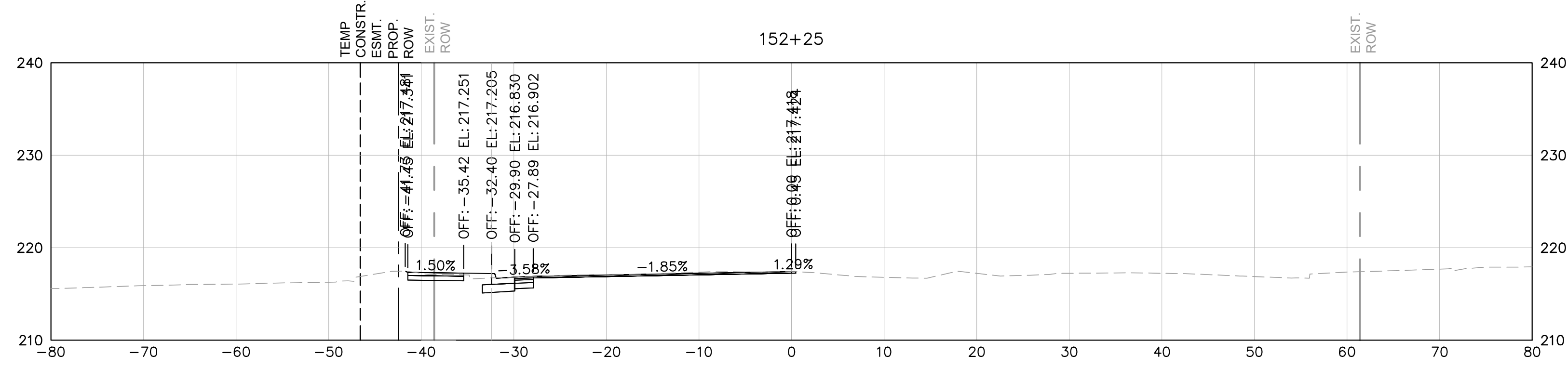
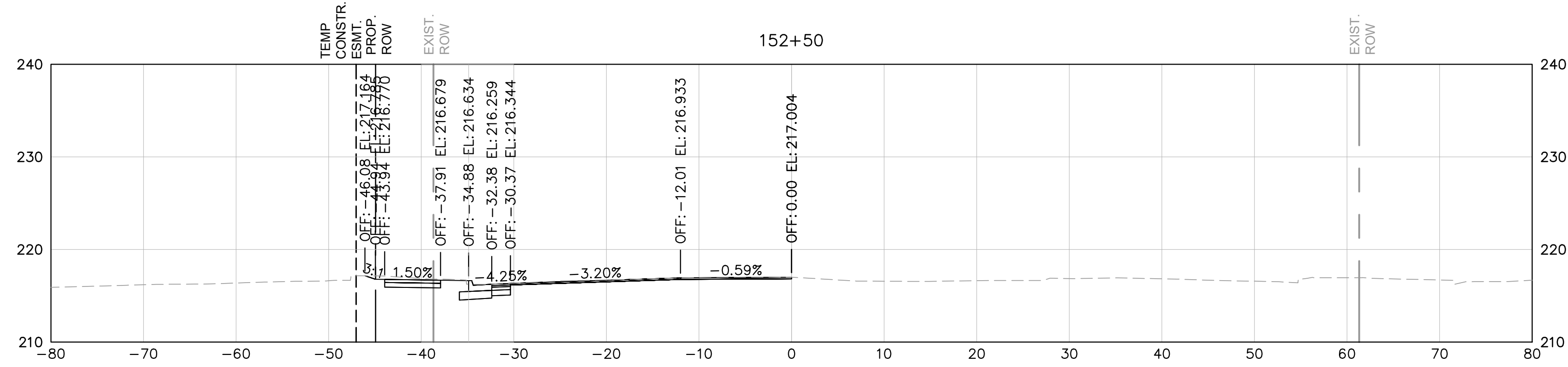
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STEVENSON AVENUE

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REVISIONS	DATE	DESCRIPTION

CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313





WEST END TRANSITWAY – PHASE 1 IMPROVEMENTS

CROSS SECTIONS – S
VAN DORN STREET AT
STEVENSON AVENUE

SHEET
XS-8
SCALE 1" = 10'

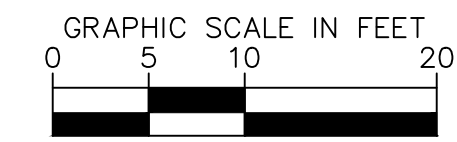
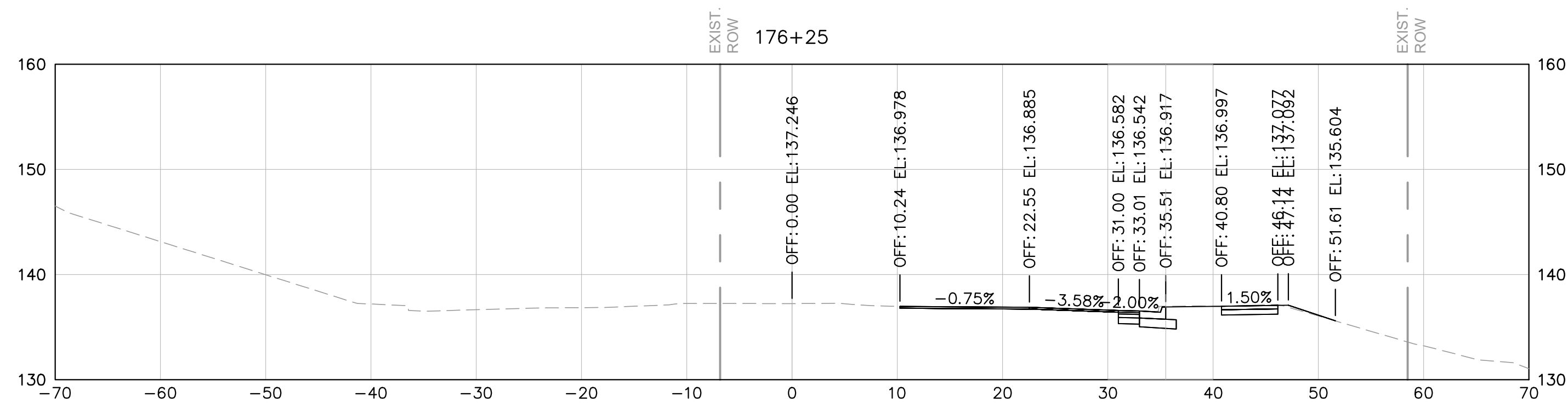
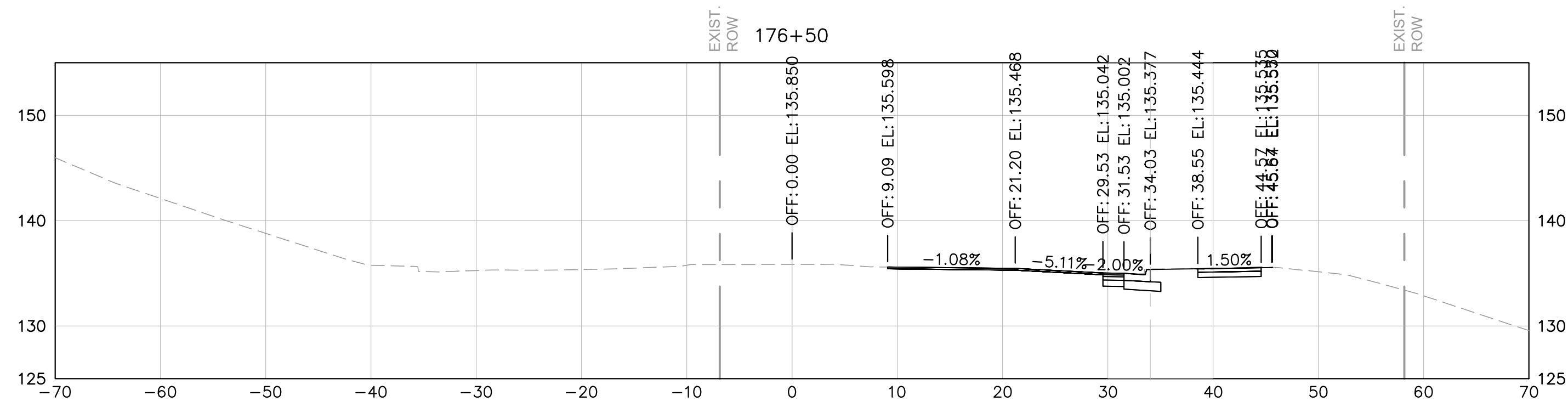
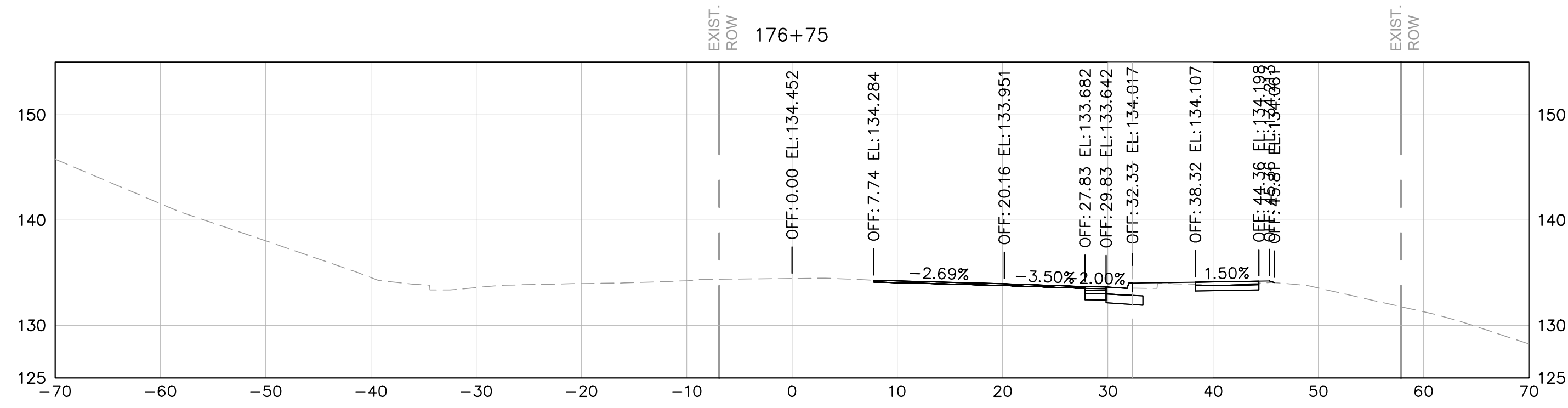
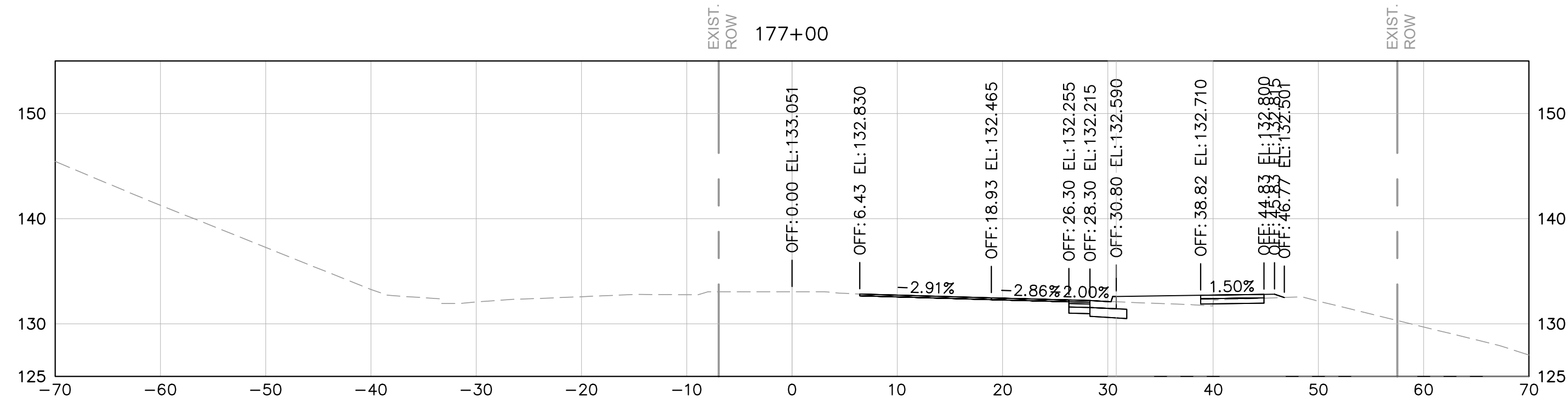
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90% DESIGN PHASE

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301 KING STREET
ALEXANDRIA, VIRGINIA 22313





WEST END TRANSITWAY – PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

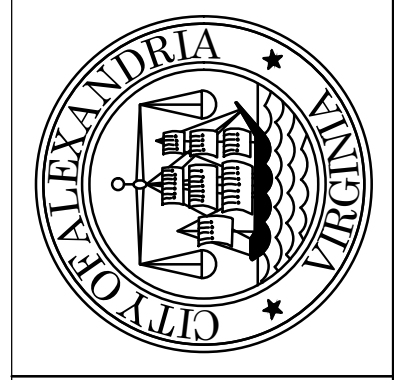
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VAN DORN STREET AT
HOLMES RUN PARKWAY

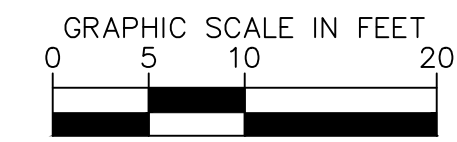
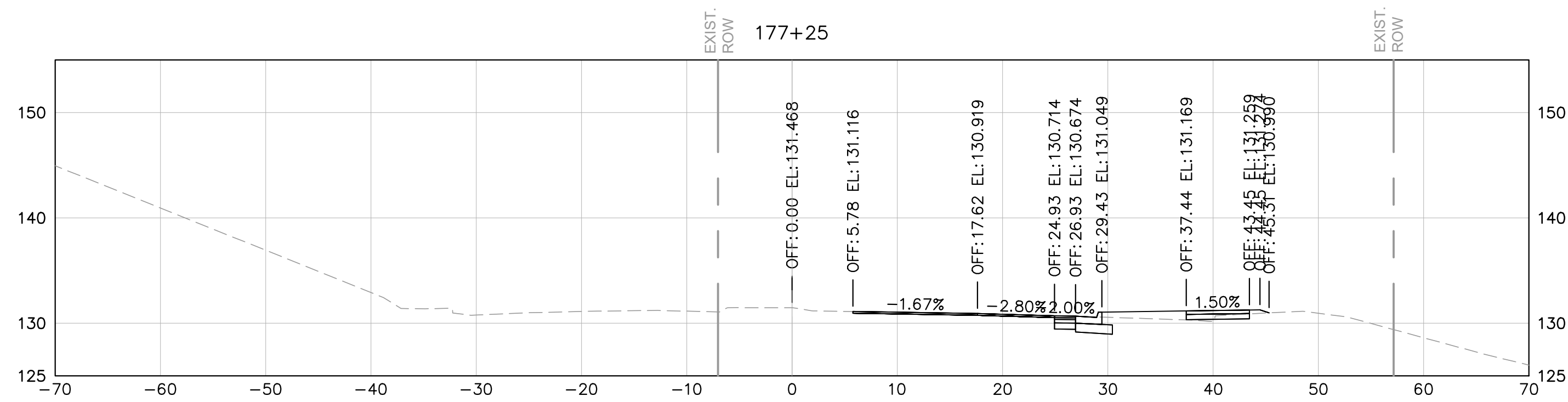
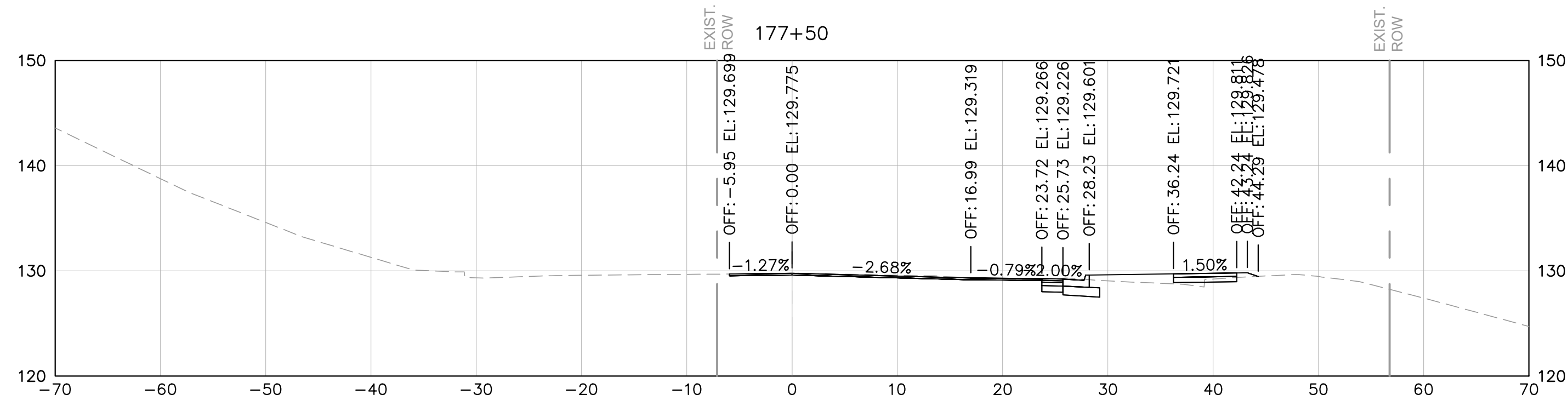
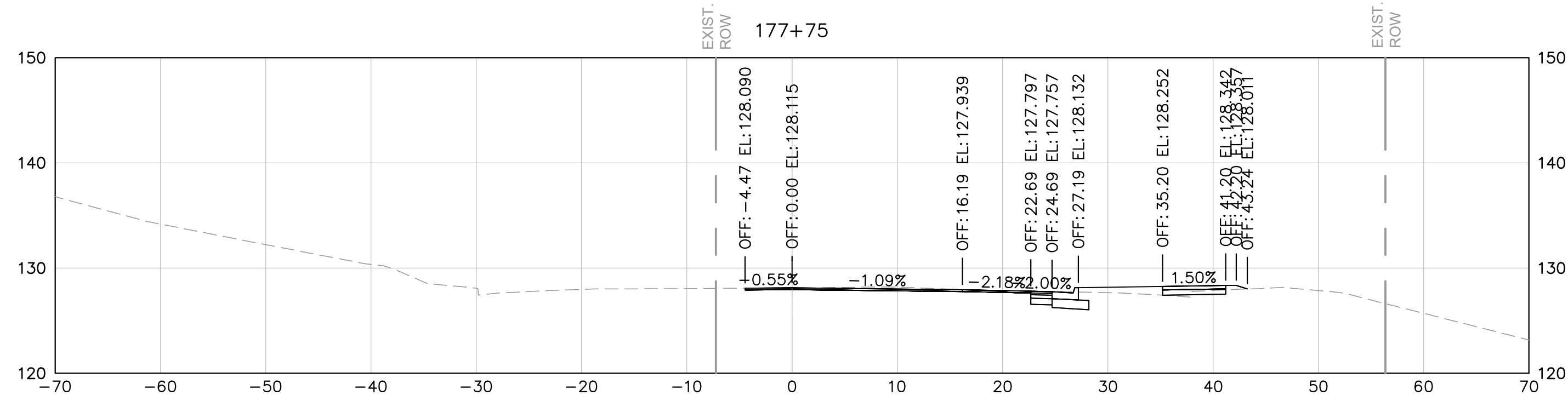
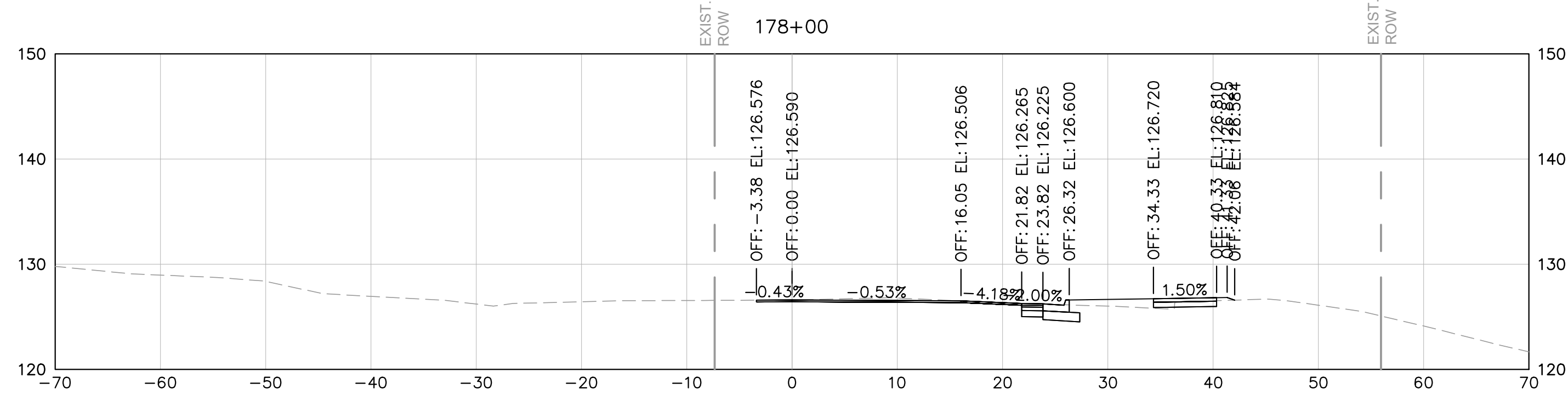
SHEET
XS-9
SCALE 1" = 10'

ALEXANDRIA PROJECT NO.:	110104122
DATE OF PLAN ISSUANCE:	N/A
CONSULTANT PROJECT ID.:	N/A
DESIGNED BY:	MAT. DATE: 4/5/24
DRAWN BY:	MAT. DATE: 4/5/24
CHECKED BY:	EJD. DATE: 4/5/24
APPROVED BY:	DATE:

REVISIONS	DATE	DESCRIPTION

CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313





WEST END TRANSITWAY – PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

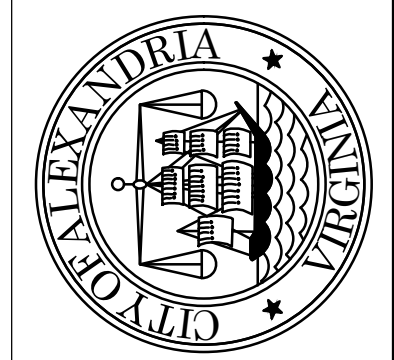
CROSS SECTIONS – N
VAN DORN STREET AT
HOLMES RUN PARKWAY

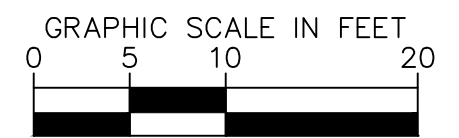
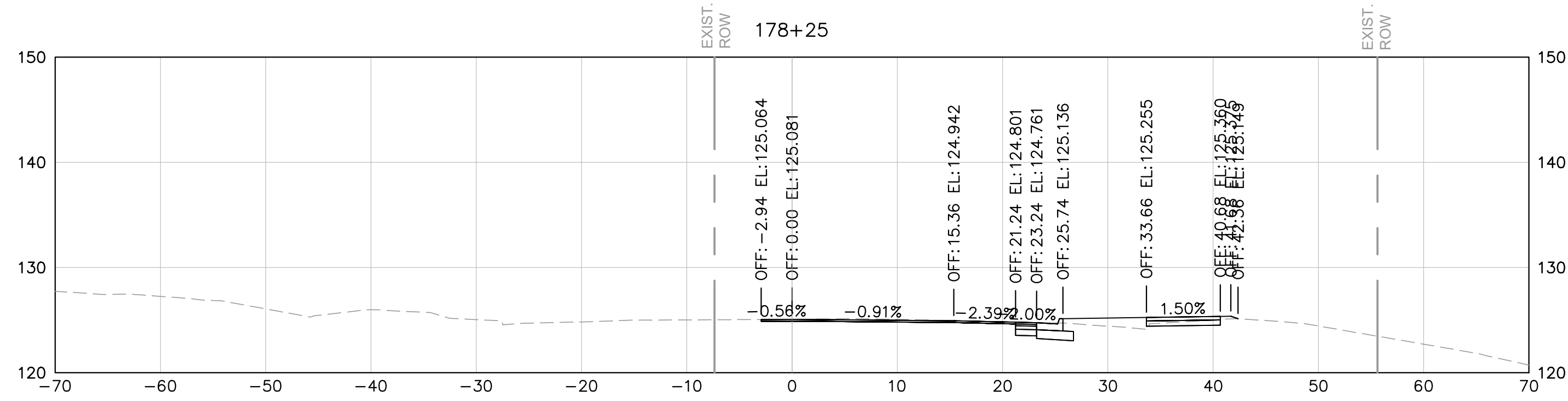
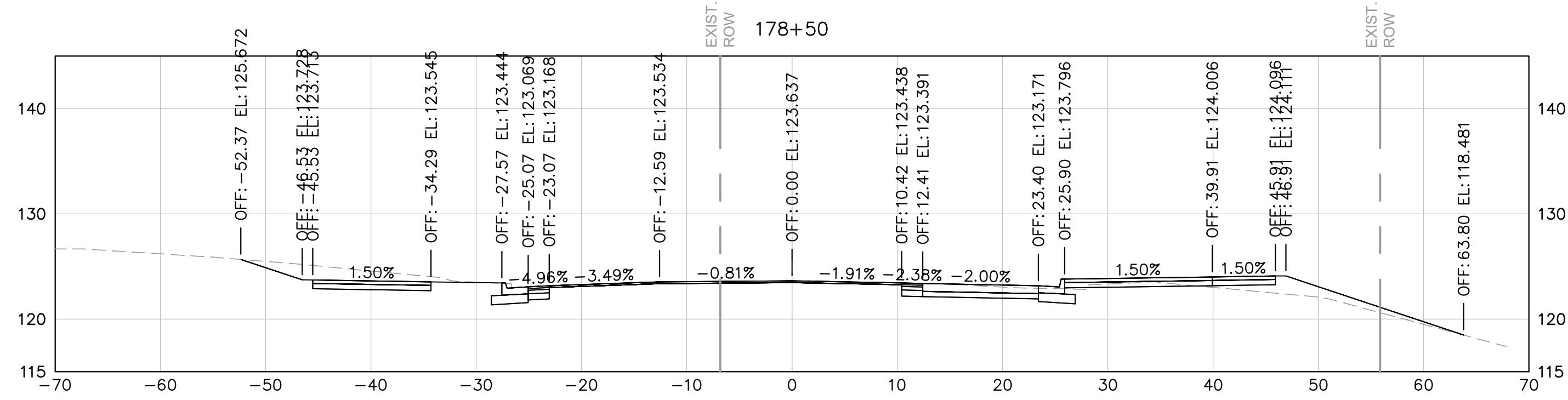
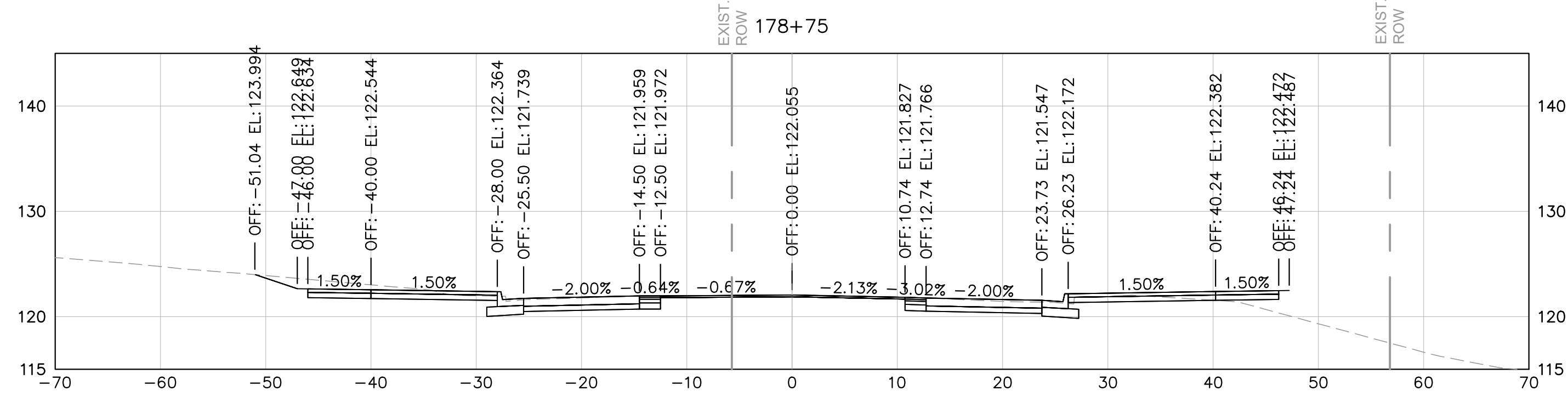
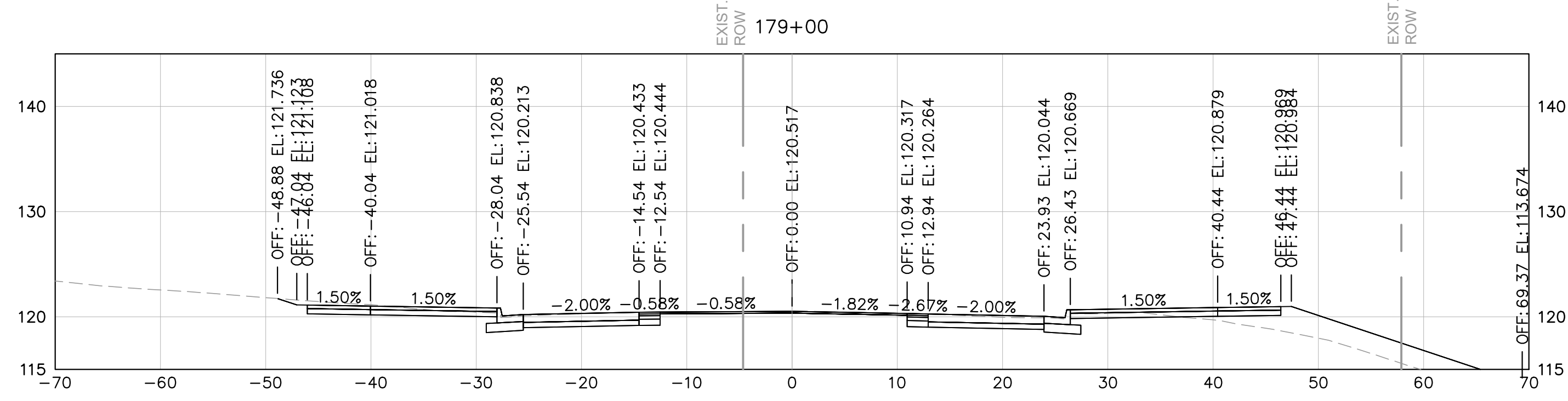
SHEET
XS-10
SCALE 1" = 10'

ALEXANDRIA PROJECT NO.:	110104122
DATE OF PLAN ISSUANCE:	N/A
CONSULTANT PROJECT ID.:	N/A
DESIGNED BY:	MAT. DATE: 4/5/24
DRAWN BY:	MAT. DATE: 4/5/24
CHECKED BY:	EJD. DATE: 4/5/24
APPROVED BY:	DATE:

REVISIONS	DATE	DESCRIPTION

CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313



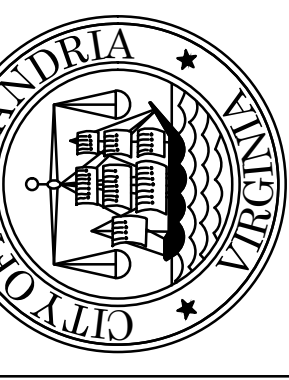


WEST END TRANSITWAY – PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

CROSS SECTIONS – N
 VAN DORN STREET AT
 HOLMES RUN PARKWAY

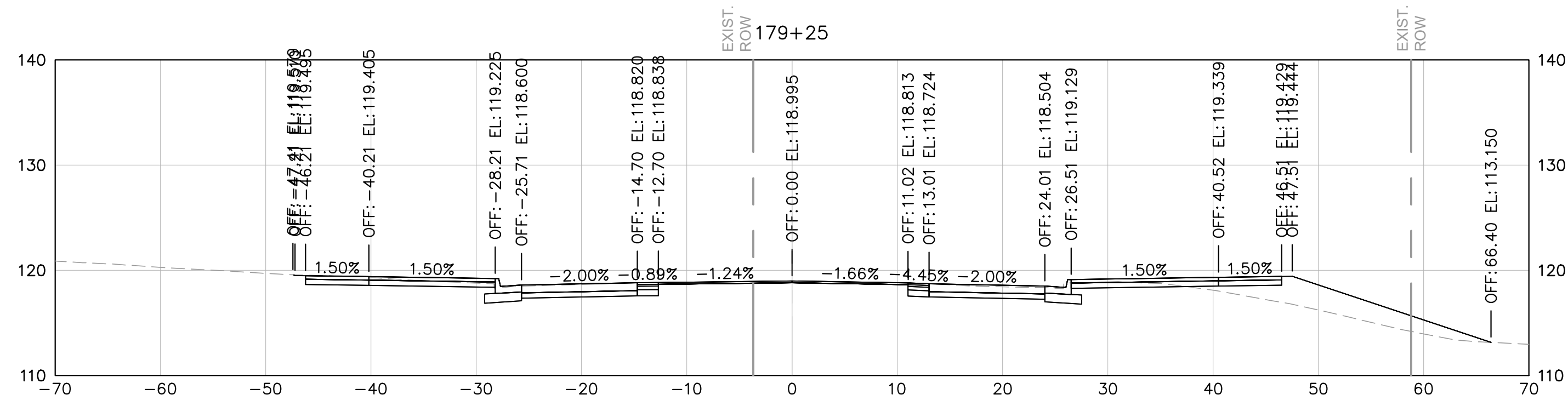
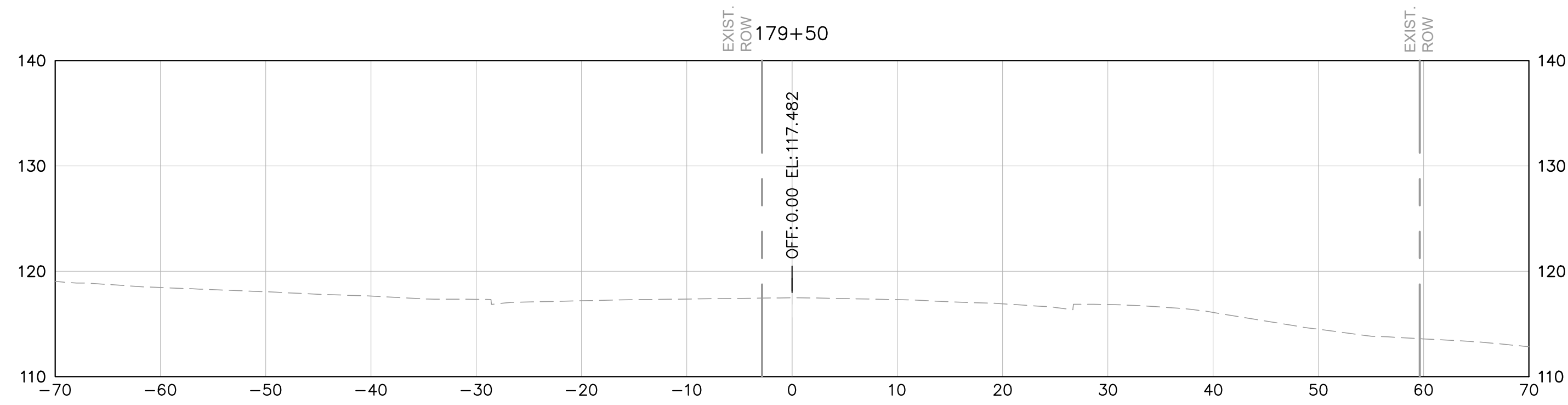
CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313



REVISIONS	DATE	DESCRIPTION

ALEXANDRIA PROJECT NO.: 110104122
 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: MAT DATE: 4/5/24
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 CHECKED BY: EJD DATE: 4/5/24
 APPROVED BY: _____ DATE: _____

SHEET
 XS-11
 SCALE 1" = 10'



WEST END TRANSITWAY – PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

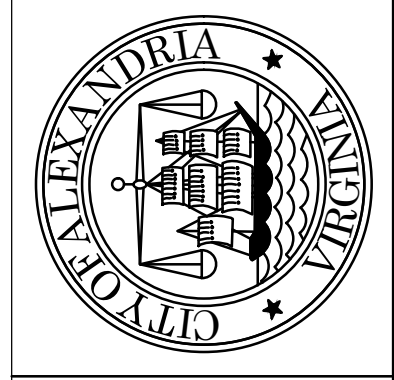
SHEET
XS-12
SCALE 1" = 10'

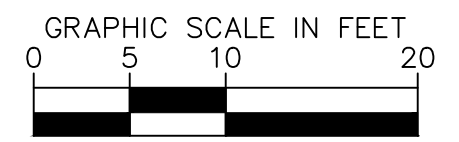
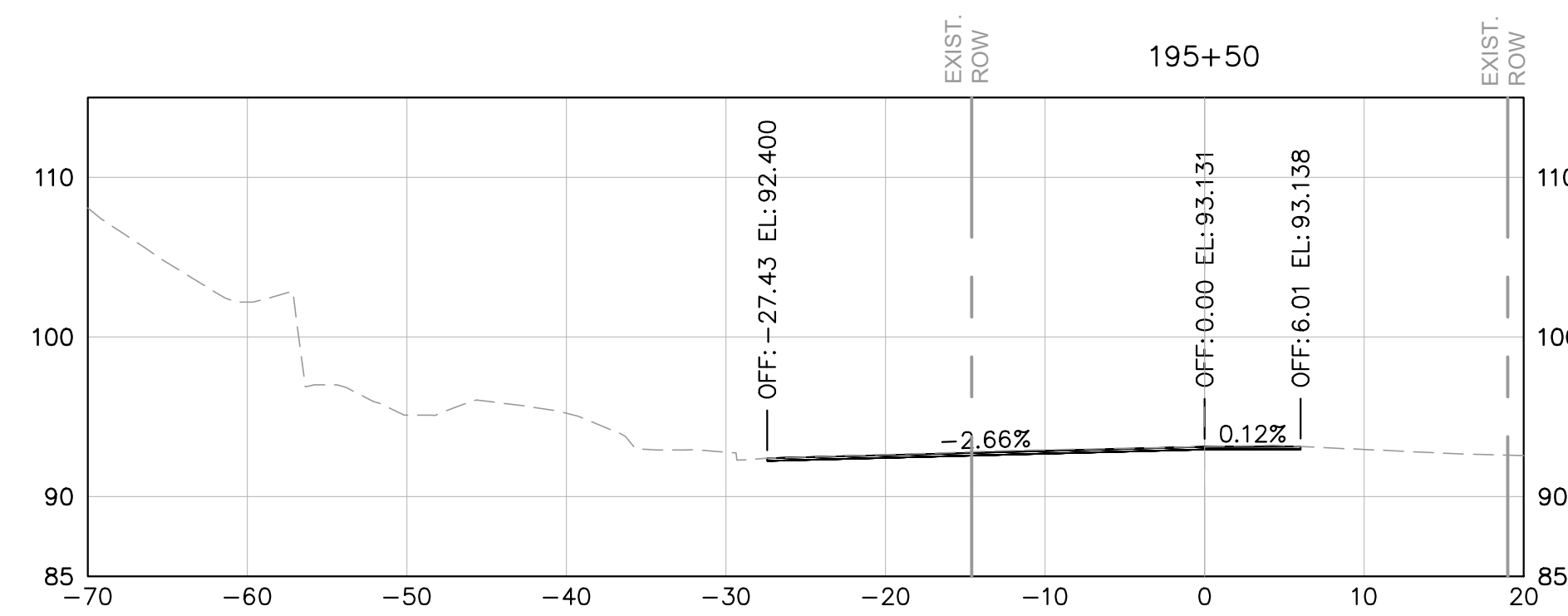
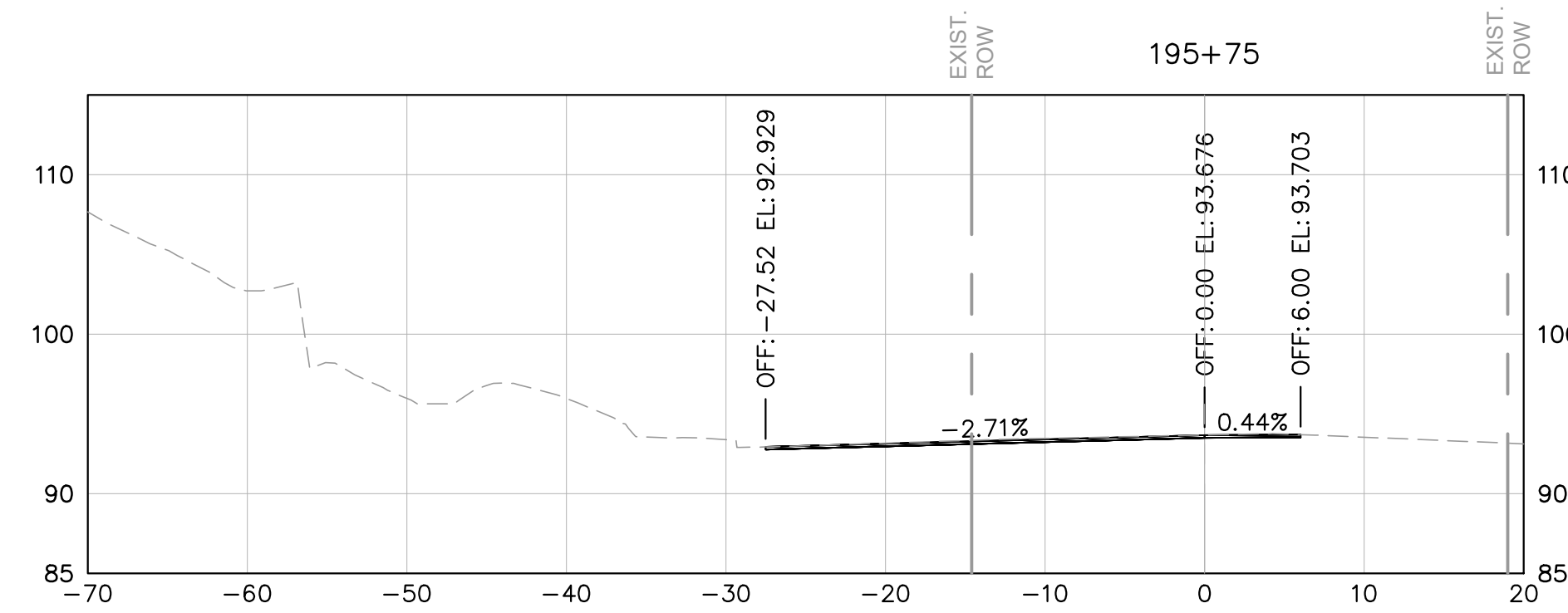
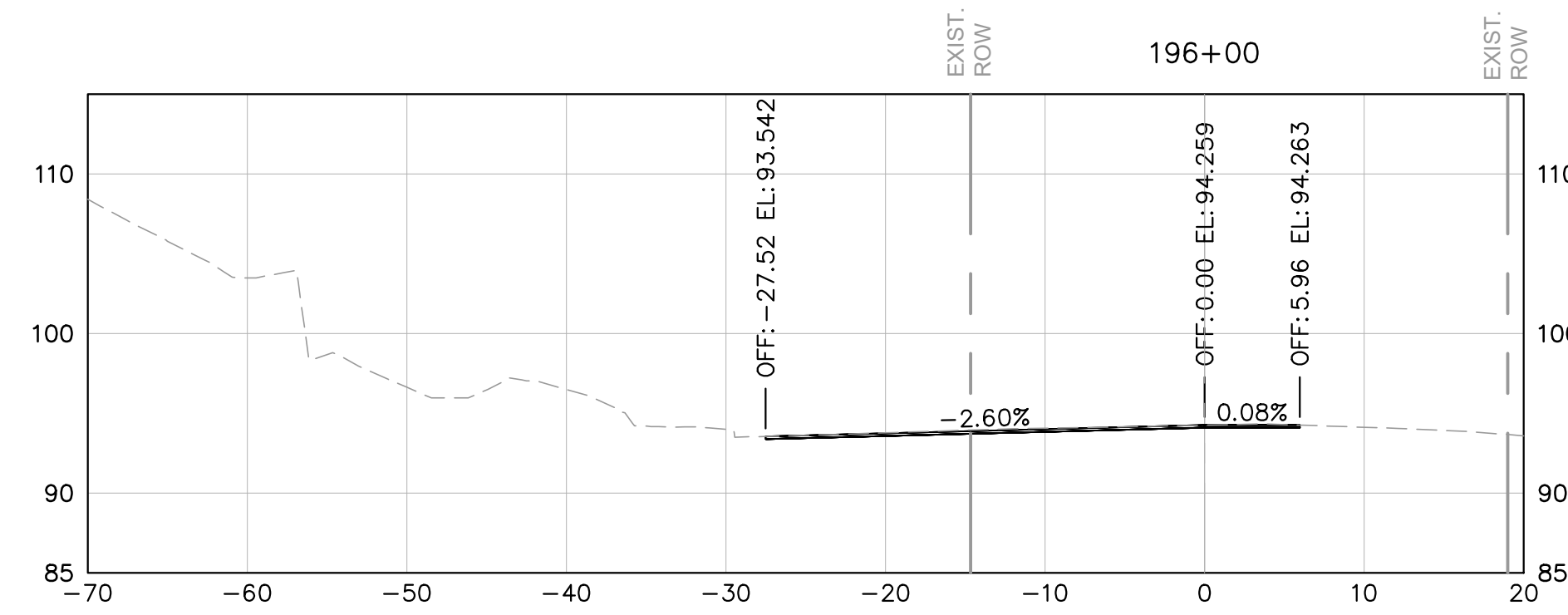
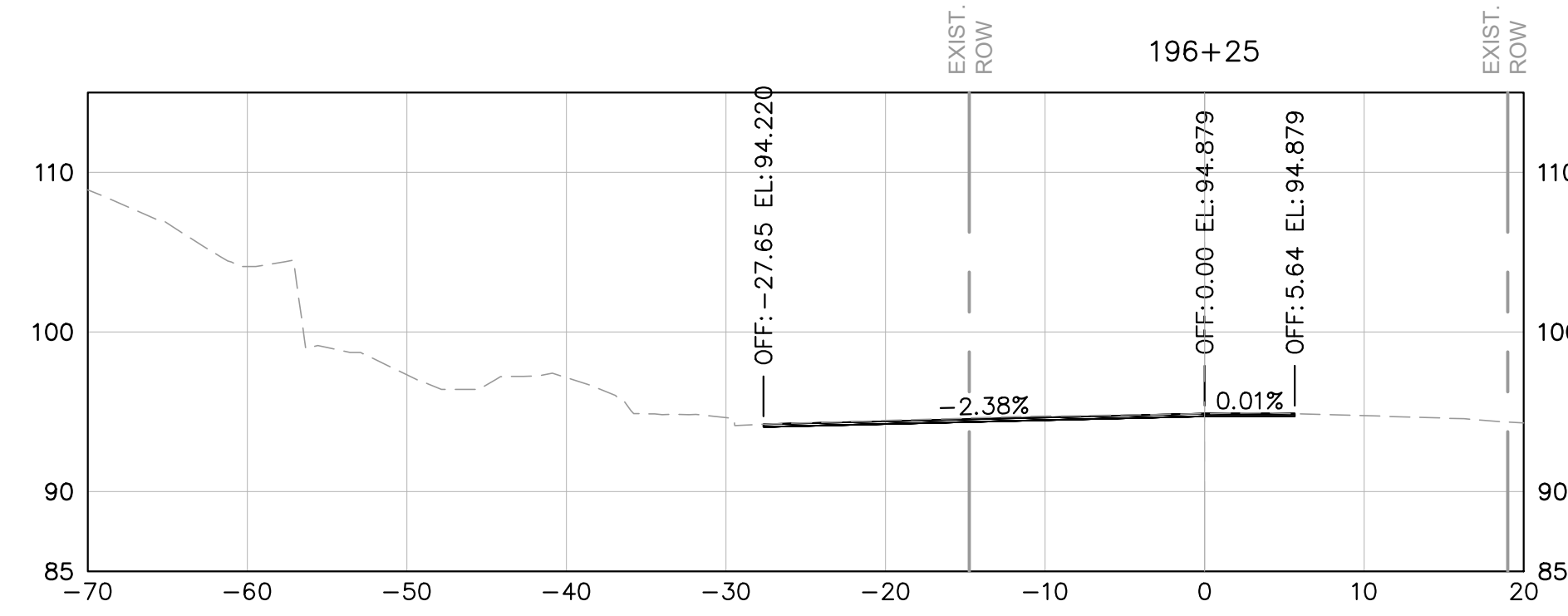
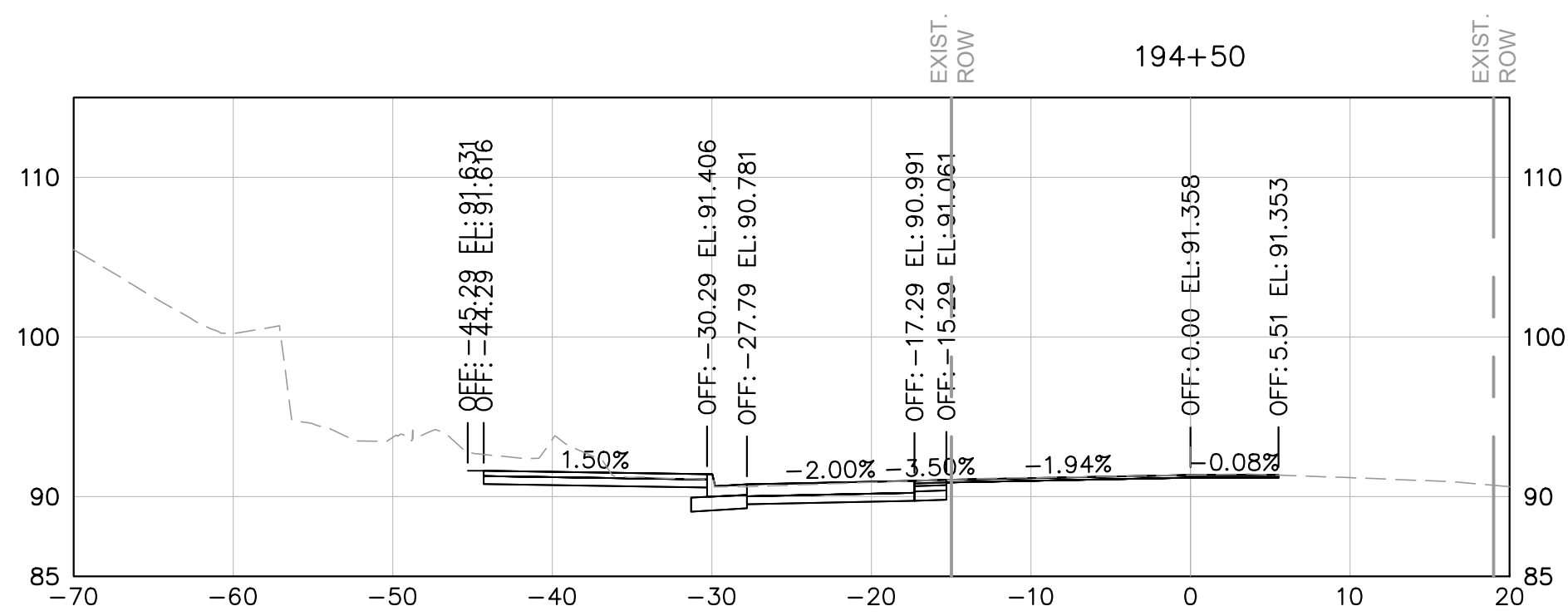
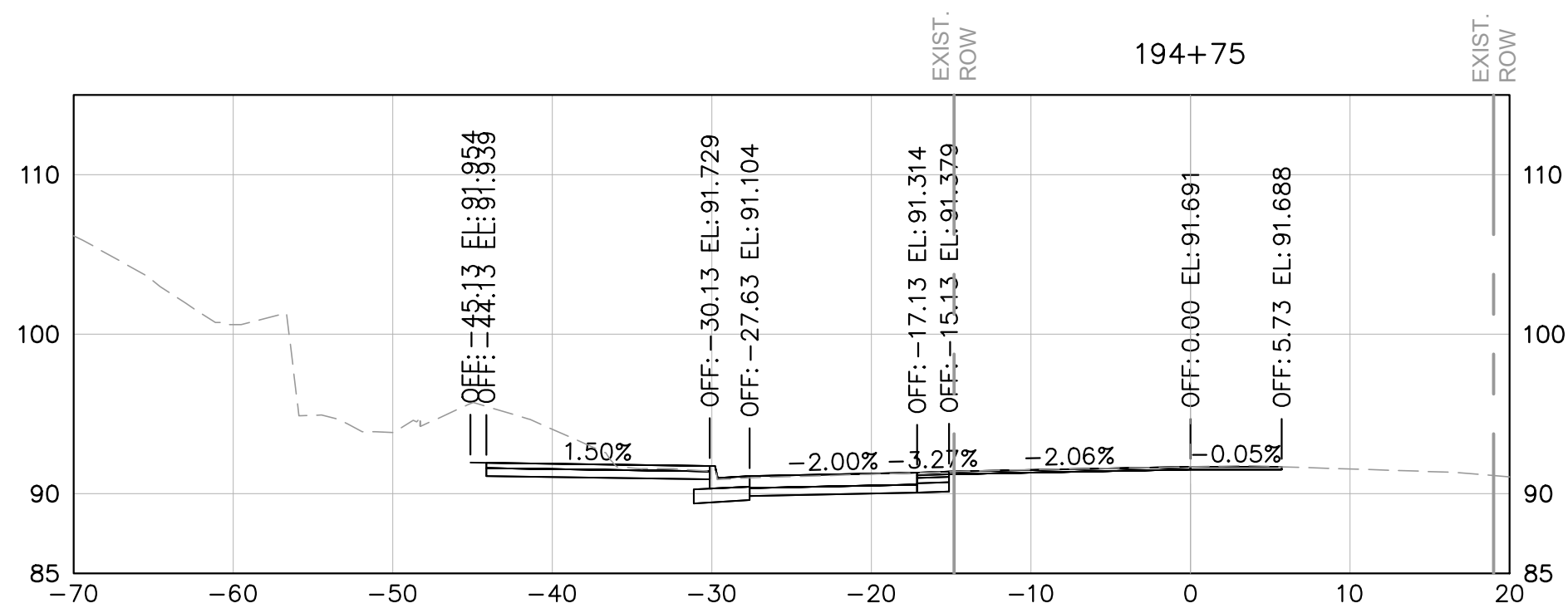
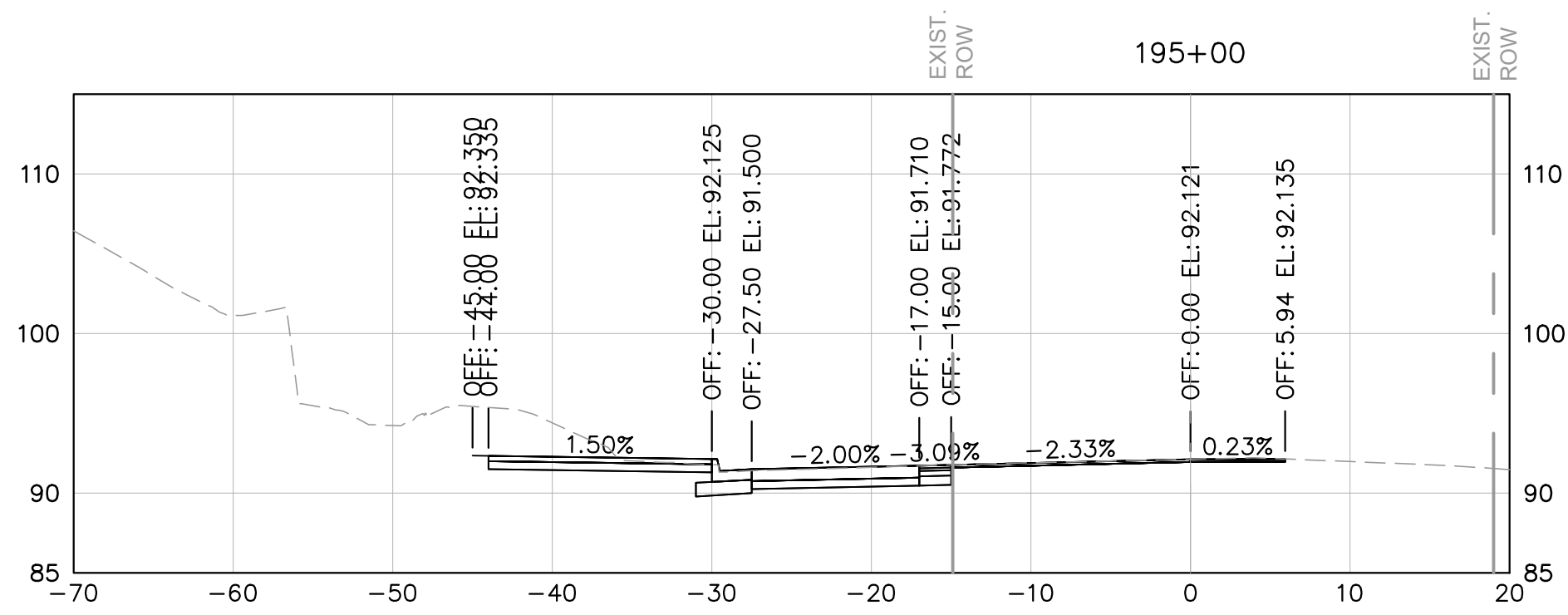
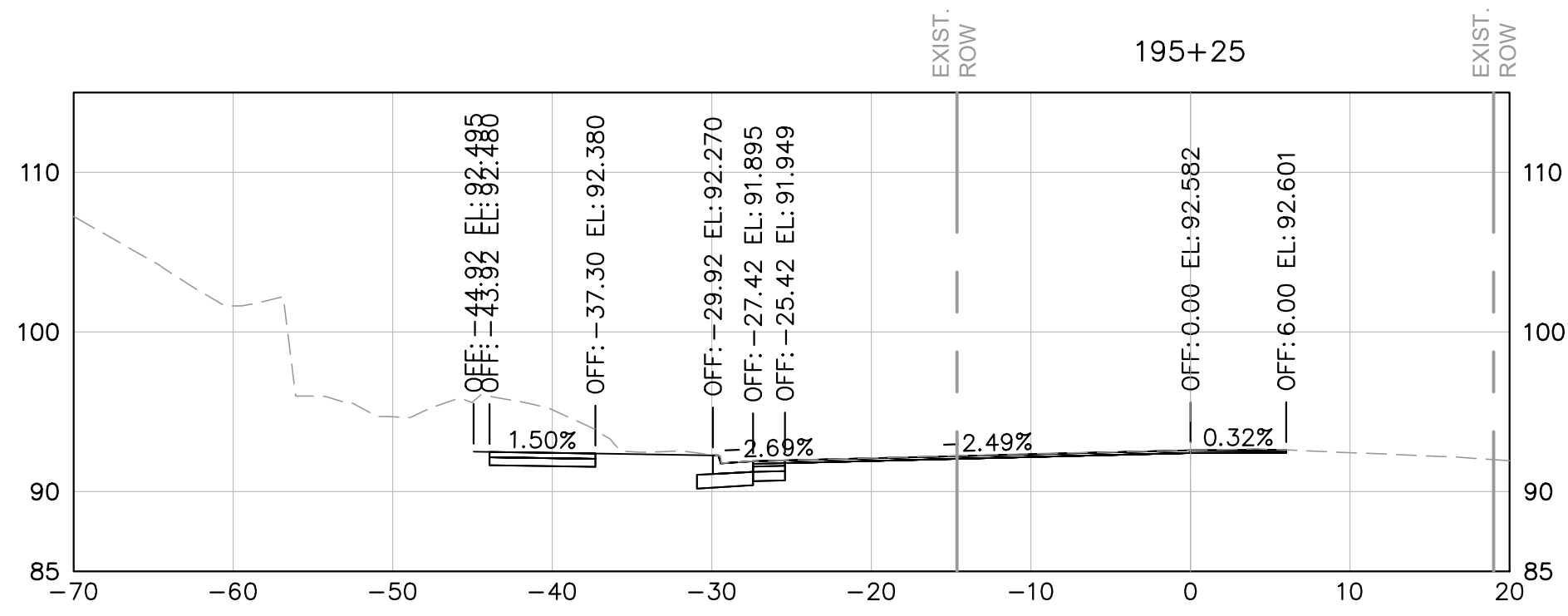
CROSS SECTIONS – N
VAN DORN STREET AT
HOLMES RUN PARKWAY

ALEXANDRIA PROJECT NO.: 110104122
DATE OF PLAN ISSUANCE: N/A
CONSULTANT PROJECT ID: N/A
DESIGNED BY: MAT DATE: 4/5/24
DRAWN BY: MAT DATE: 4/5/24
CHECKED BY: EJD DATE: 4/5/24
APPROVED BY: _____ DATE: _____

REVISIONS	DESCRIPTION
DATE	BY

CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313





90% DESIGN PHASE



CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

REVISIONS
DATE BY DESCRIPTION

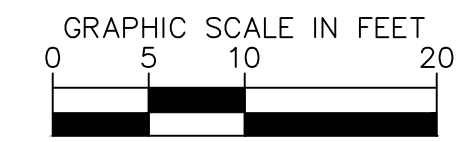
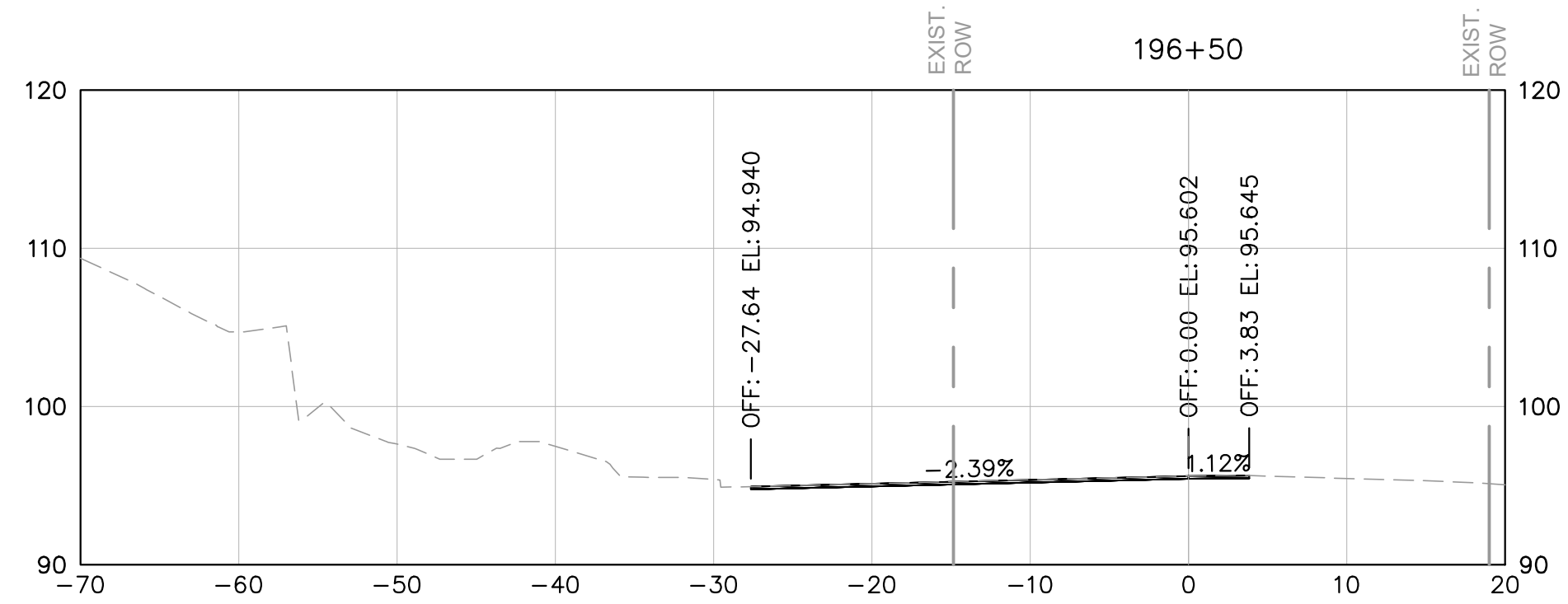
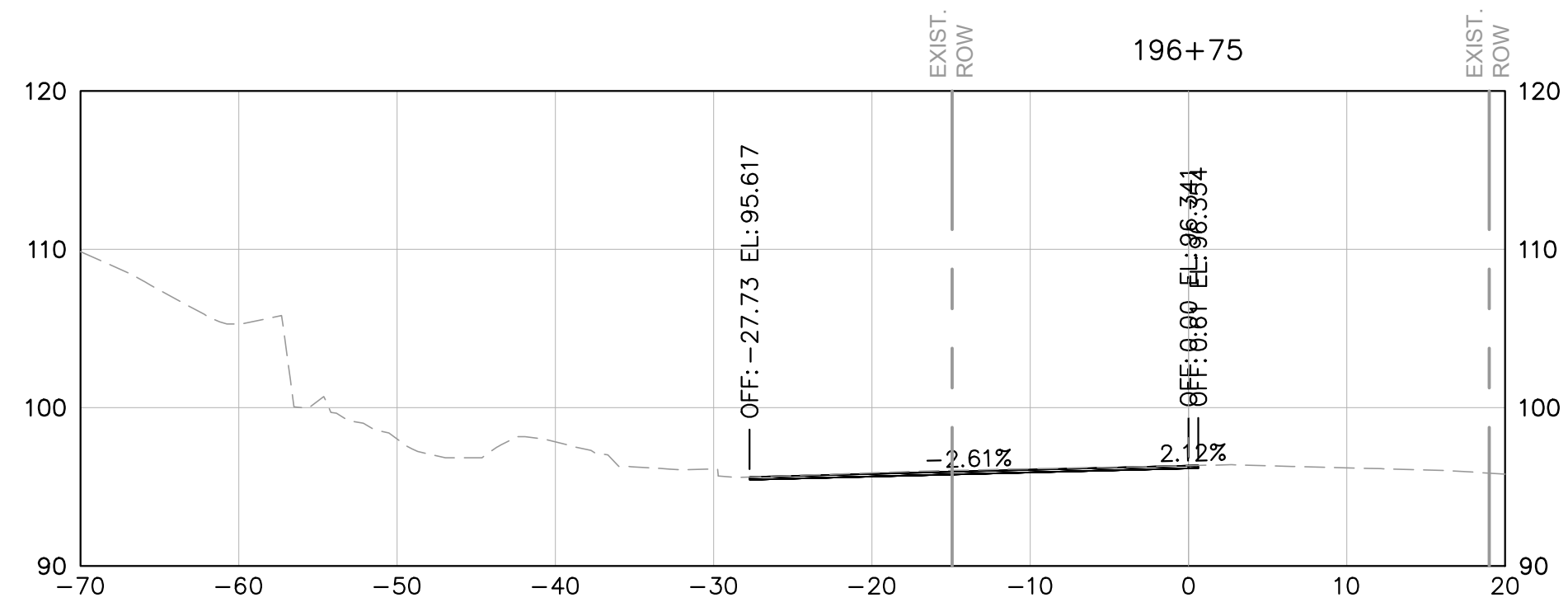
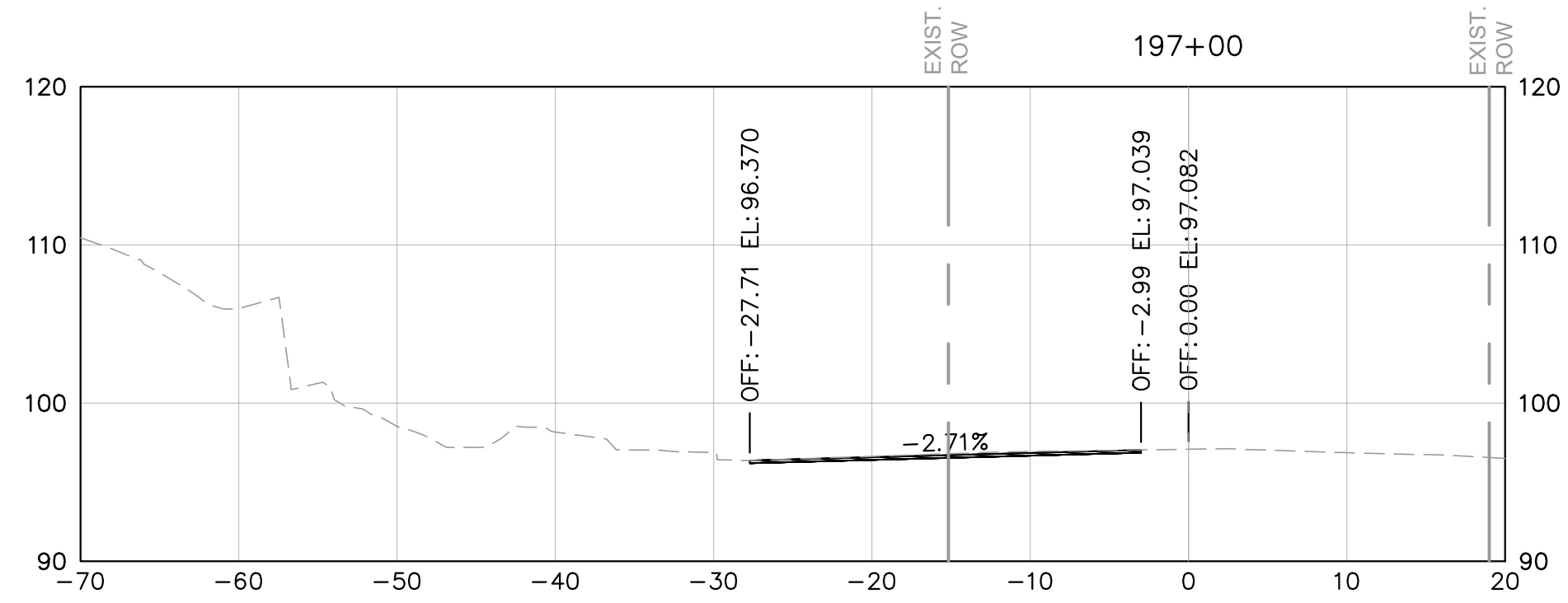
DATE	BY	DESCRIPTION

WEST END TRANSITWAY – PHASE 1 IMPROVEMENTS

CROSS SECTIONS – N
VAN DORN STREET AT
TANEY AVENUE

SHEET
XS-13
SCALE 1" = 10'

ALEXANDRIA PROJECT NO.: 110104122
DATE OF PLAN ISSUANCE: N/A
CONSULTANT PROJECT ID: N/A
DESIGNED BY: MAT DATE: 4/5/24
DRAWN BY: MAT DATE: 4/5/24
CHECKED BY: EUD DATE: 4/5/24
APPROVED BY: DATE:



WEST END TRANSITWAY – PHASE 1 IMPROVEMENTS

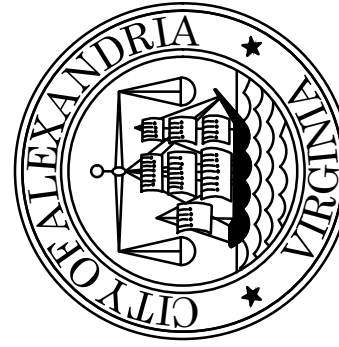
CROSS SECTIONS – N
VAN DORN STREET AT
TANEY AVENUE

SHEET
XS-14
SCALE 1" = 10'

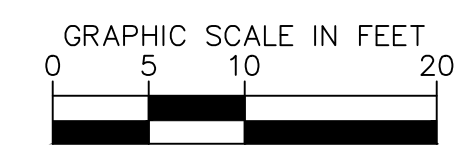
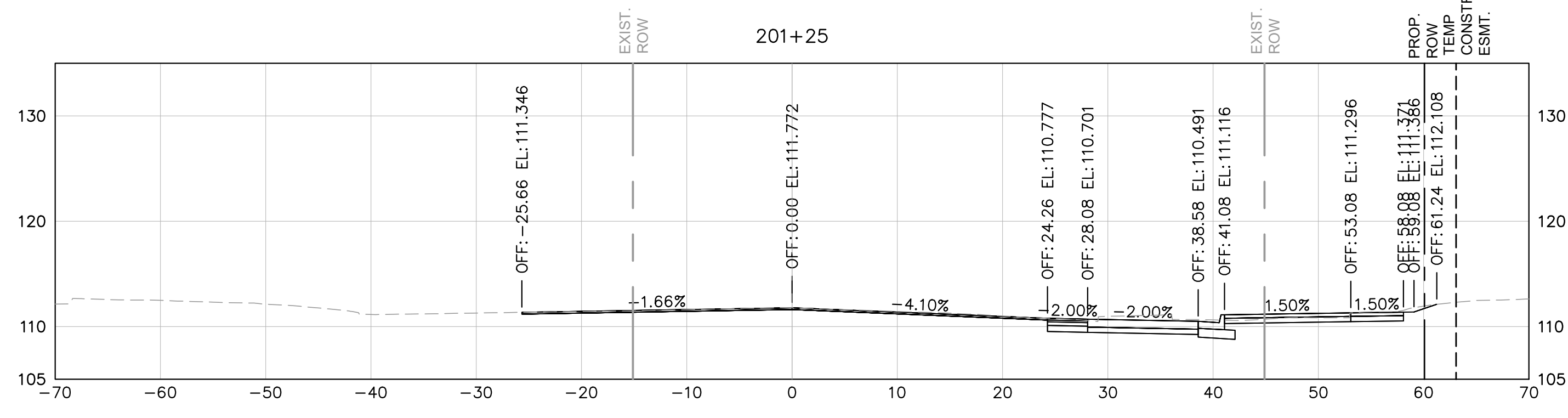
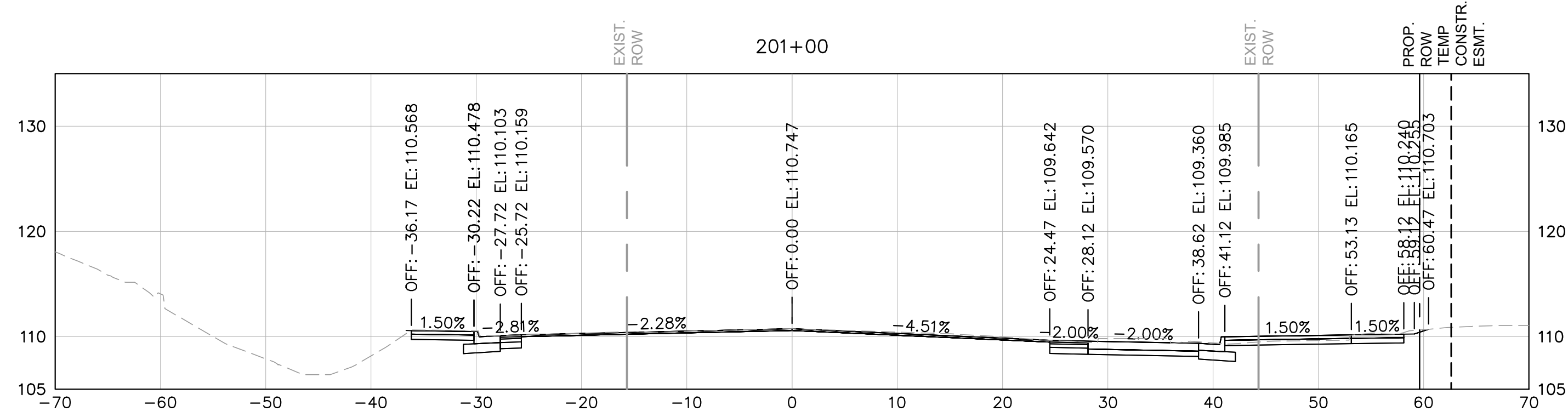
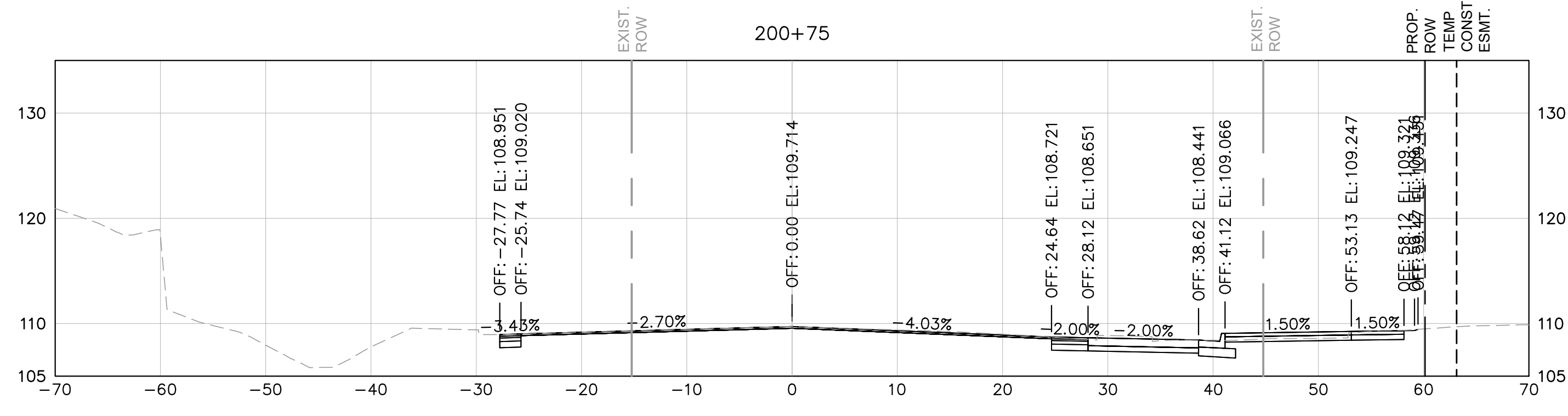
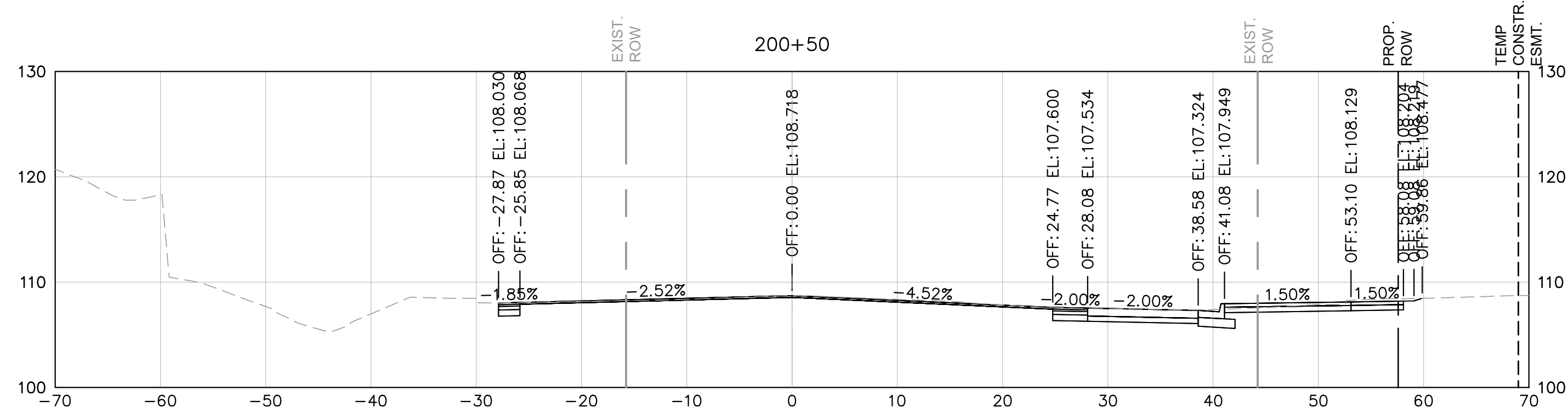
ALEXANDRIA PROJECT NO.: 110104122
DATE OF PLAN ISSUANCE: N/A
CONSULTANT PROJECT ID: N/A
DESIGNED BY: MAT DATE: 4/5/24
DRAWN BY: MAT DATE: 4/5/24
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CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313



90% DESIGN PHASE



WEST END TRANSITWAY – PHASE 1 IMPROVEMENTS

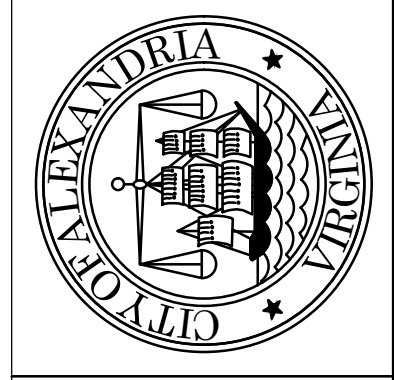
CROSS SECTIONS – N
VAN DORN STREET AT
SANGER AVENUE

SHEET
XS-15
SCALE 1" = 10'

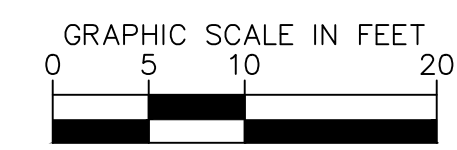
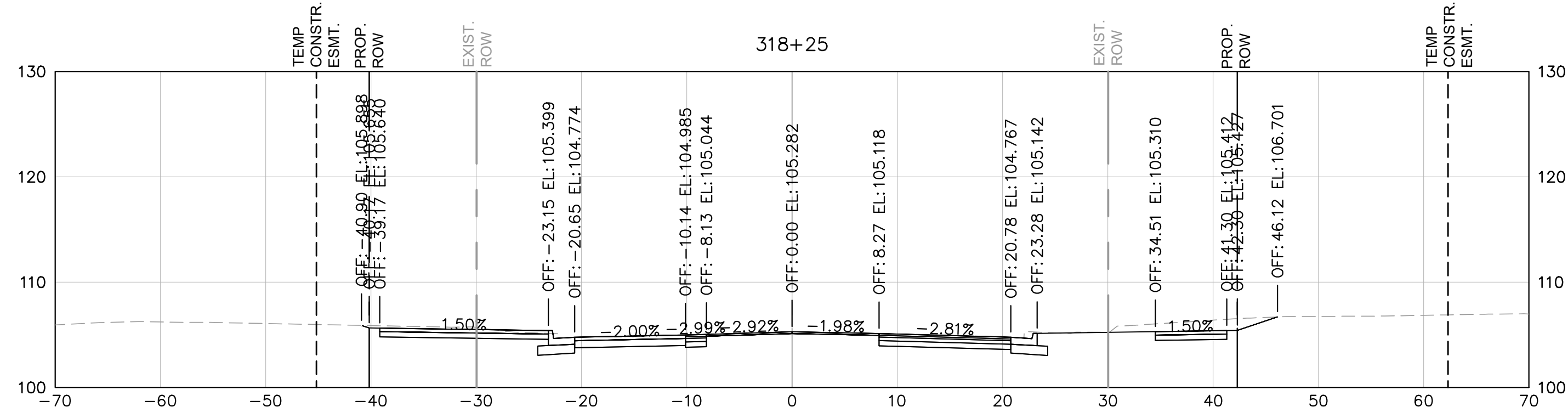
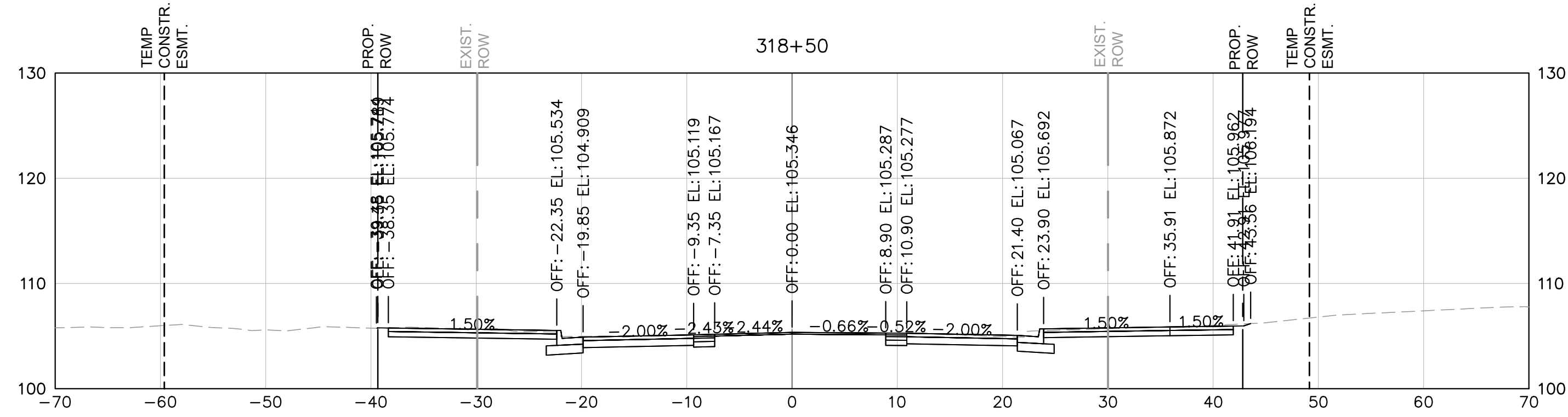
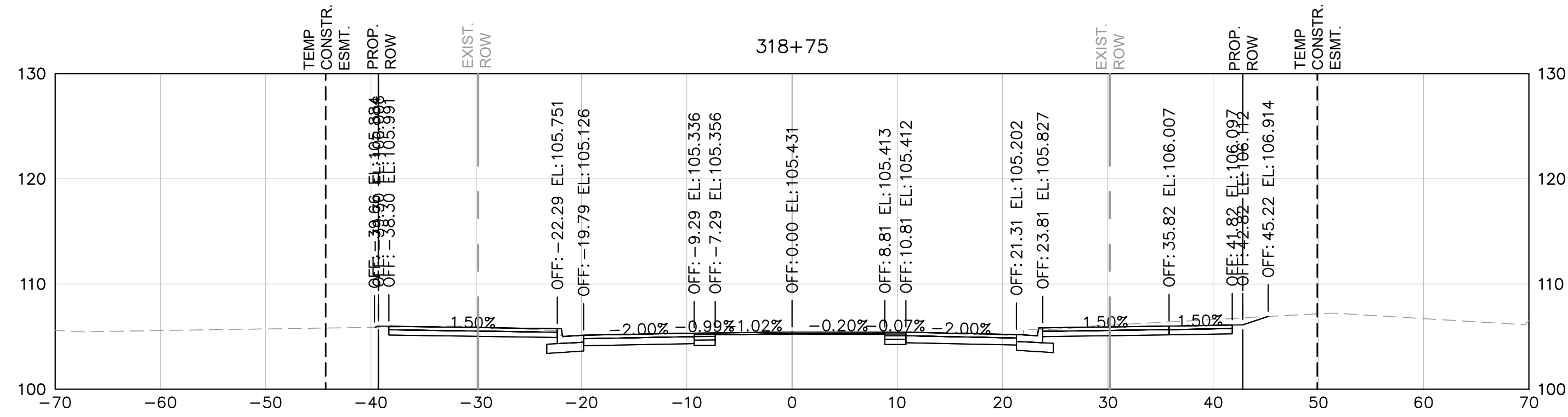
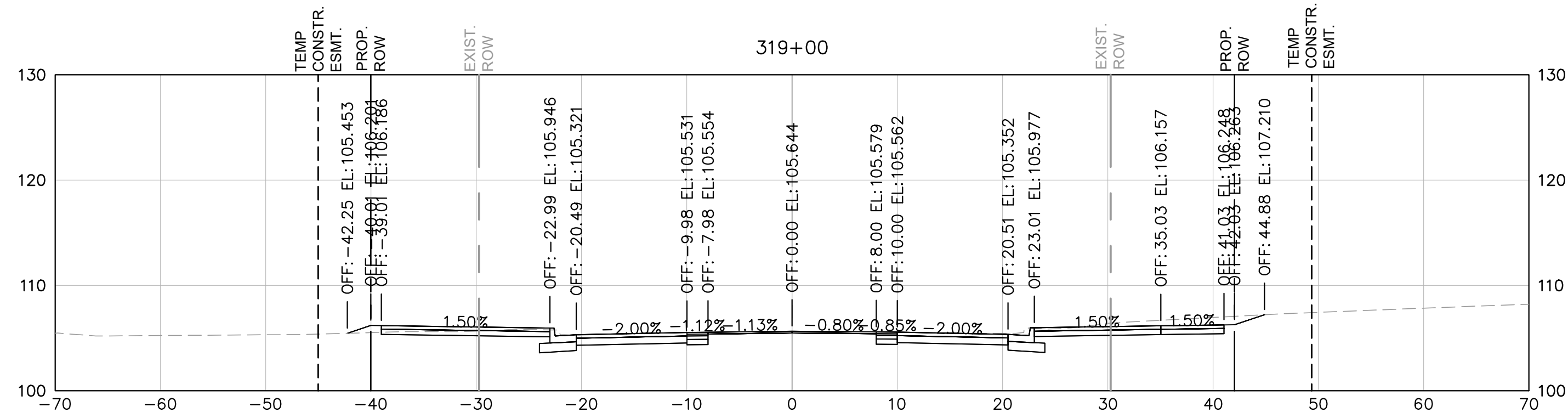
ALEXANDRIA PROJECT NO.: 110104122
DATE OF PLAN ISSUANCE: N/A
CONSULTANT PROJECT ID: N/A
DESIGNED BY: MAT DATE: 4/5/24
DRAWN BY: MAT DATE: 4/5/24
CHECKED BY: EJD DATE: 4/5/24
APPROVED BY: DATE:

REVISIONS	DATE	DESCRIPTION

CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313



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WEST END TRANSITWAY – PHASE 1 IMPROVEMENTS

CROSS SECTIONS – SANGER AVENUE AT N BEAUREGARD STREET

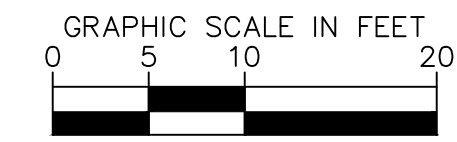
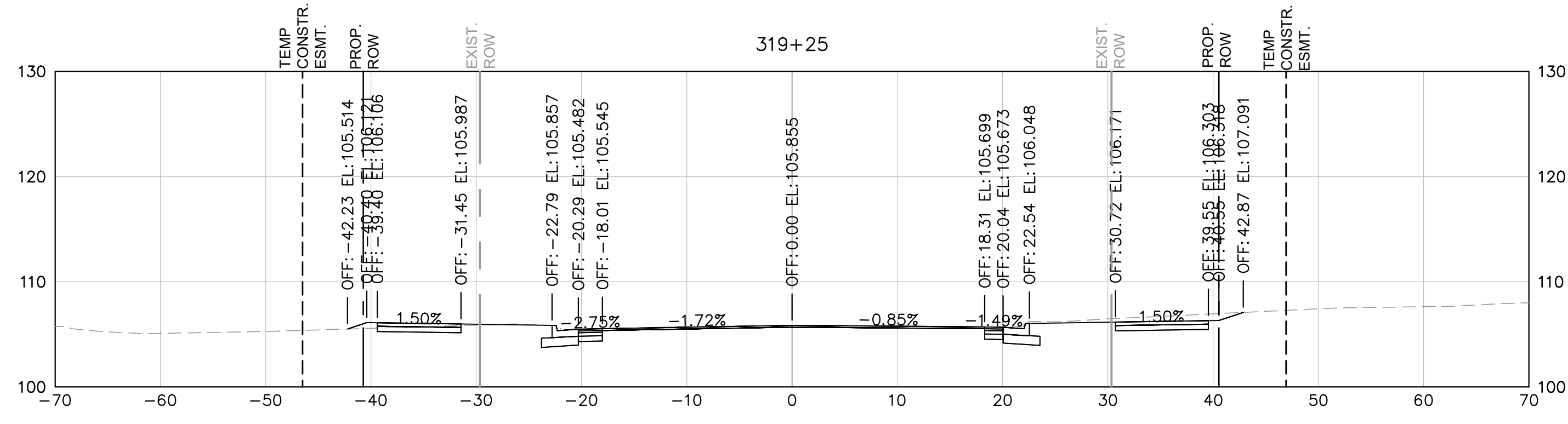
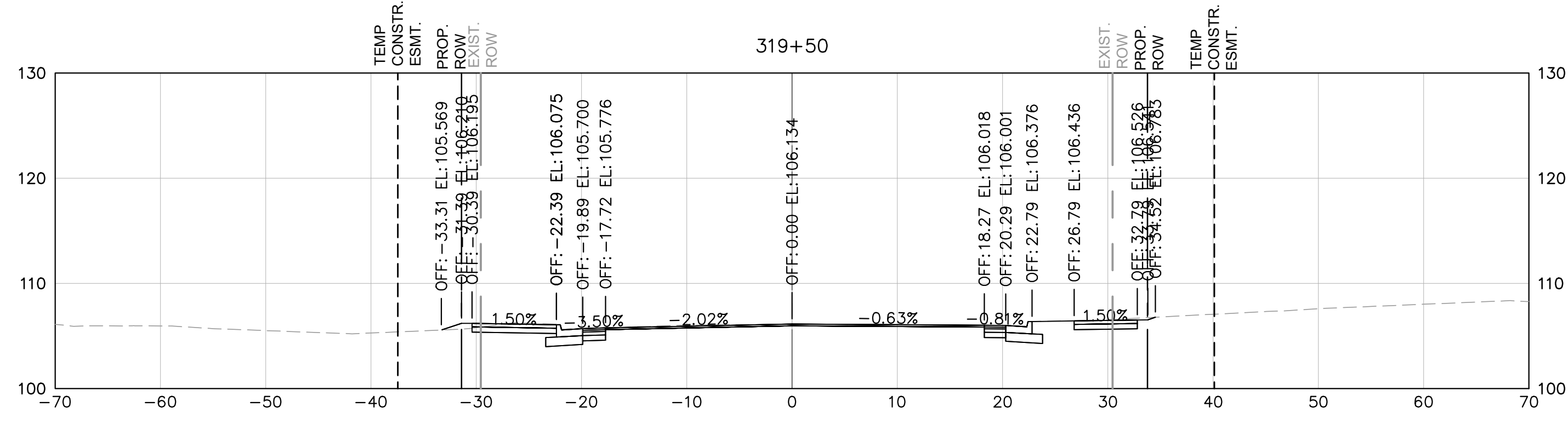
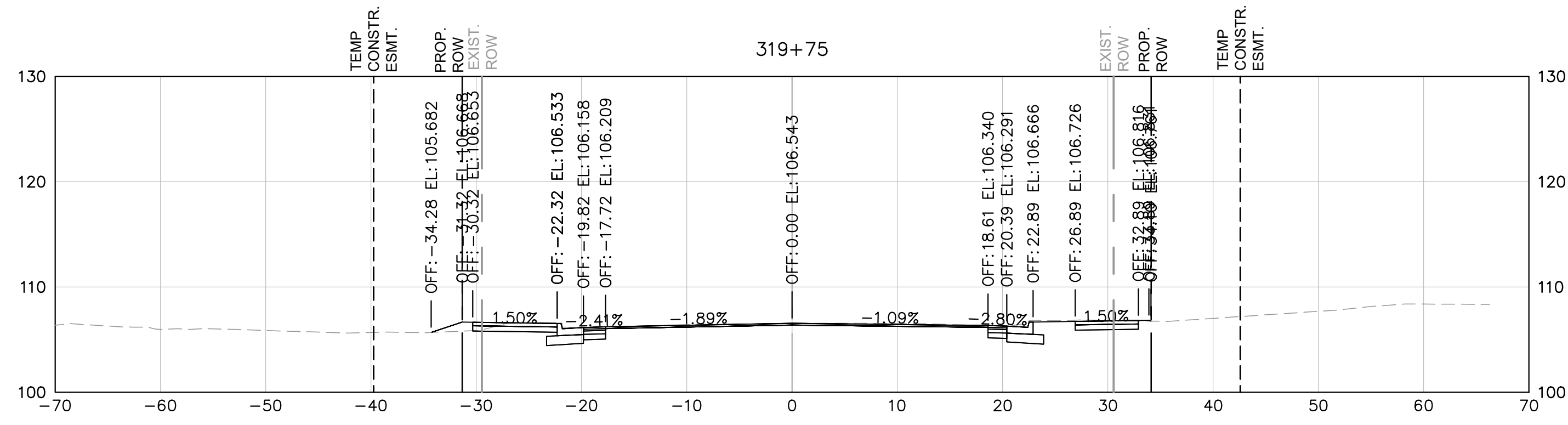
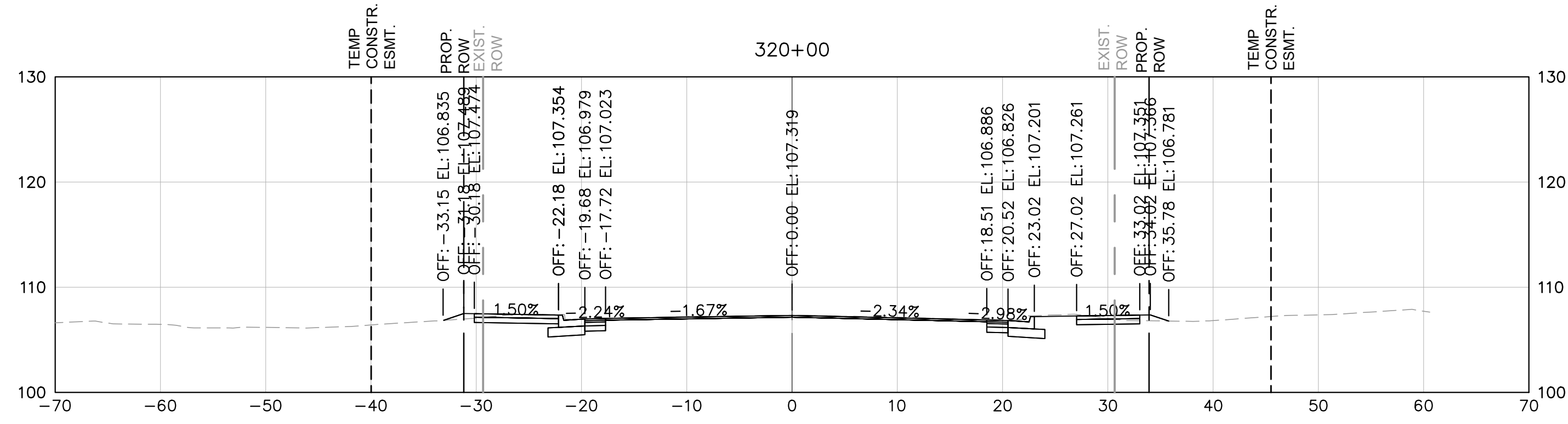
SHEET XS-16
SCALE 1" = 10'

90% DESIGN PHASE

CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

REVISIONS	DATE	DESCRIPTION

ALEXANDRIA PROJECT NO.: 110104122
DATE OF PLAN ISSUANCE: N/A
CONSULTANT PROJECT ID: N/A
DESIGNED BY: MAT DATE: 4/5/24
DRAWN BY: MAT DATE: 4/5/24
CHECKED BY: EJD DATE: 4/5/24
APPROVED BY: _____ DATE: _____



WEST END TRANSITWAY – PHASE 1 IMPROVEMENTS

CROSS SECTIONS –
SANGER AVENUE AT N
BEAUREGARD STREET

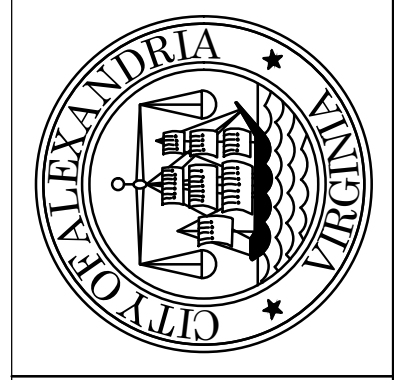
SHEET
XS-17
SCALE 1" = 10'

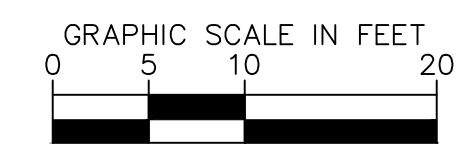
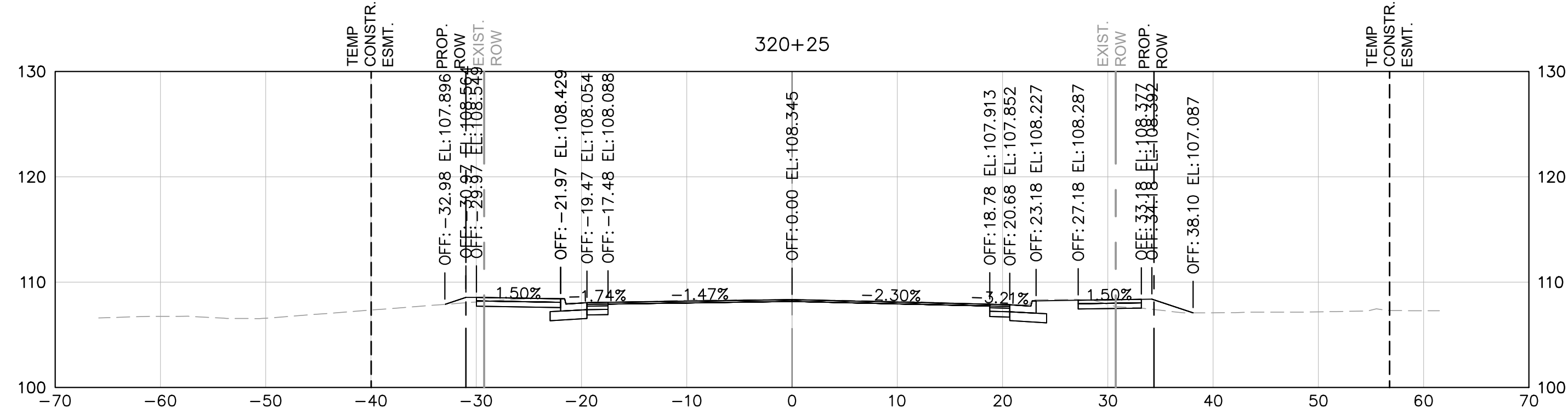
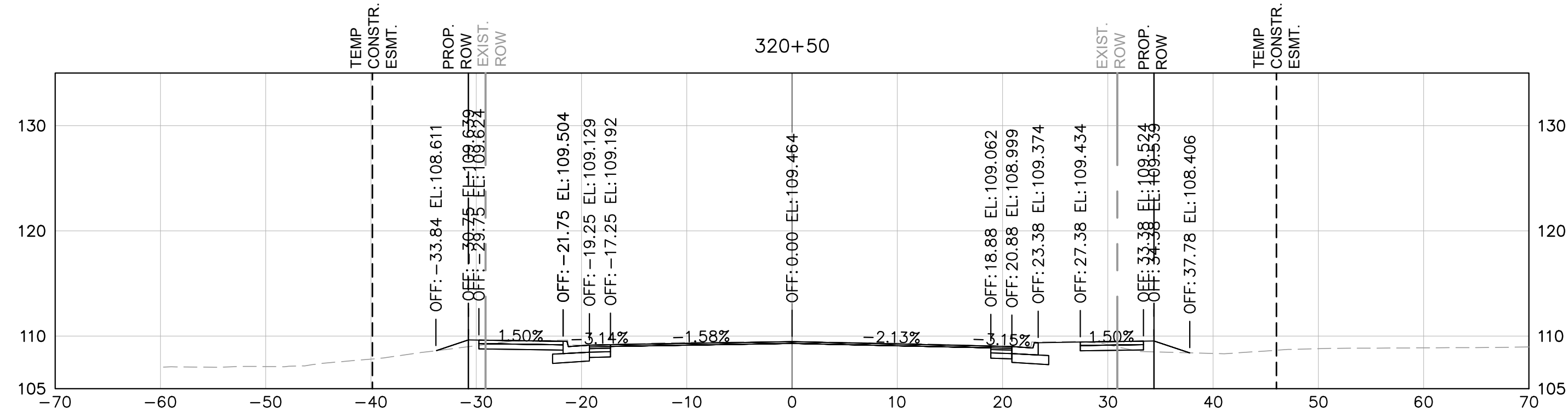
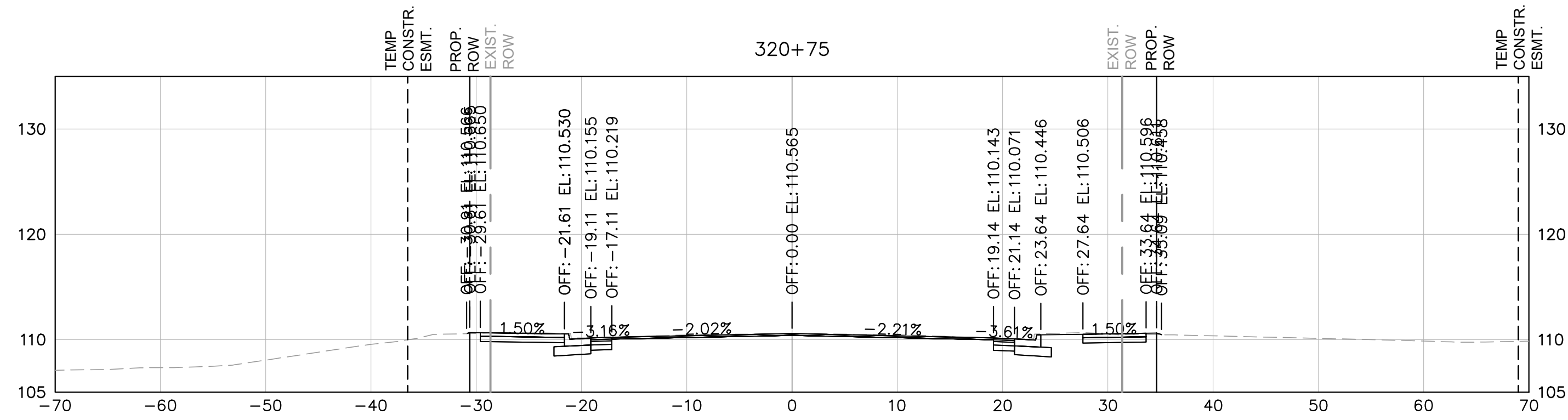
90% DESIGN PHASE

REVISIONS	DATE	DESCRIPTION

ALEXANDRIA PROJECT NO.: 110104122
 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: MAT DATE: 4/5/24
 DRAWN BY: MAT DATE: 4/5/24
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CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313





WEST END TRANSITWAY – PHASE 1 IMPROVEMENTS

CROSS SECTIONS – SANGER AVENUE AT N BEAUREGARD STREET

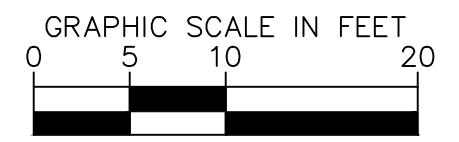
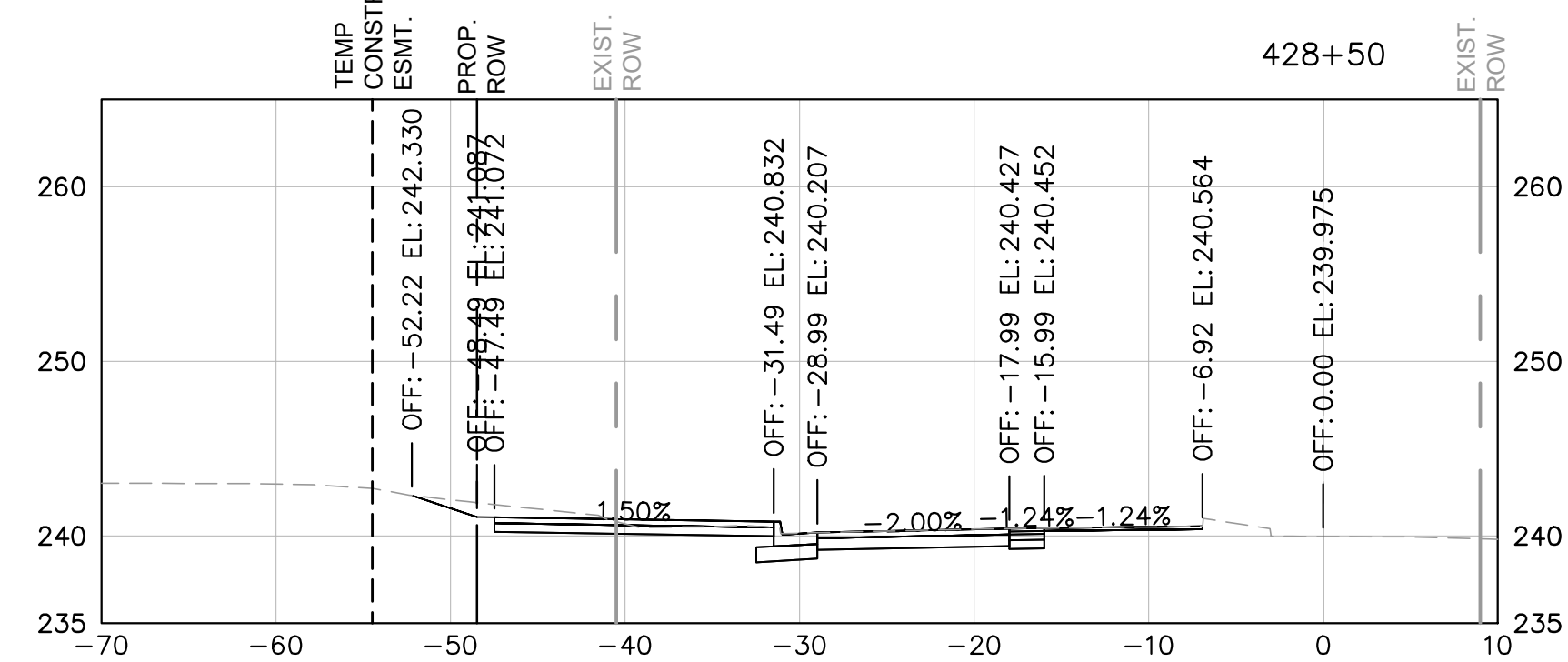
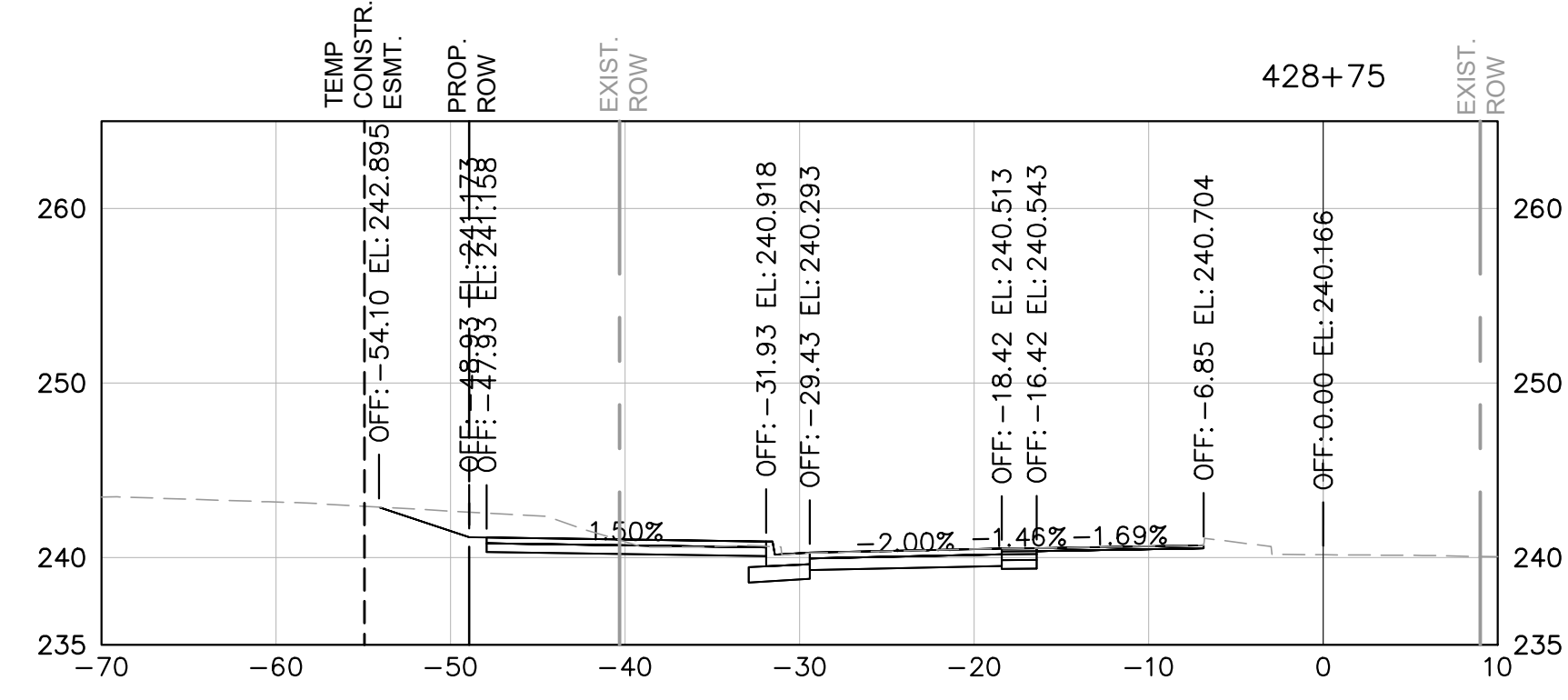
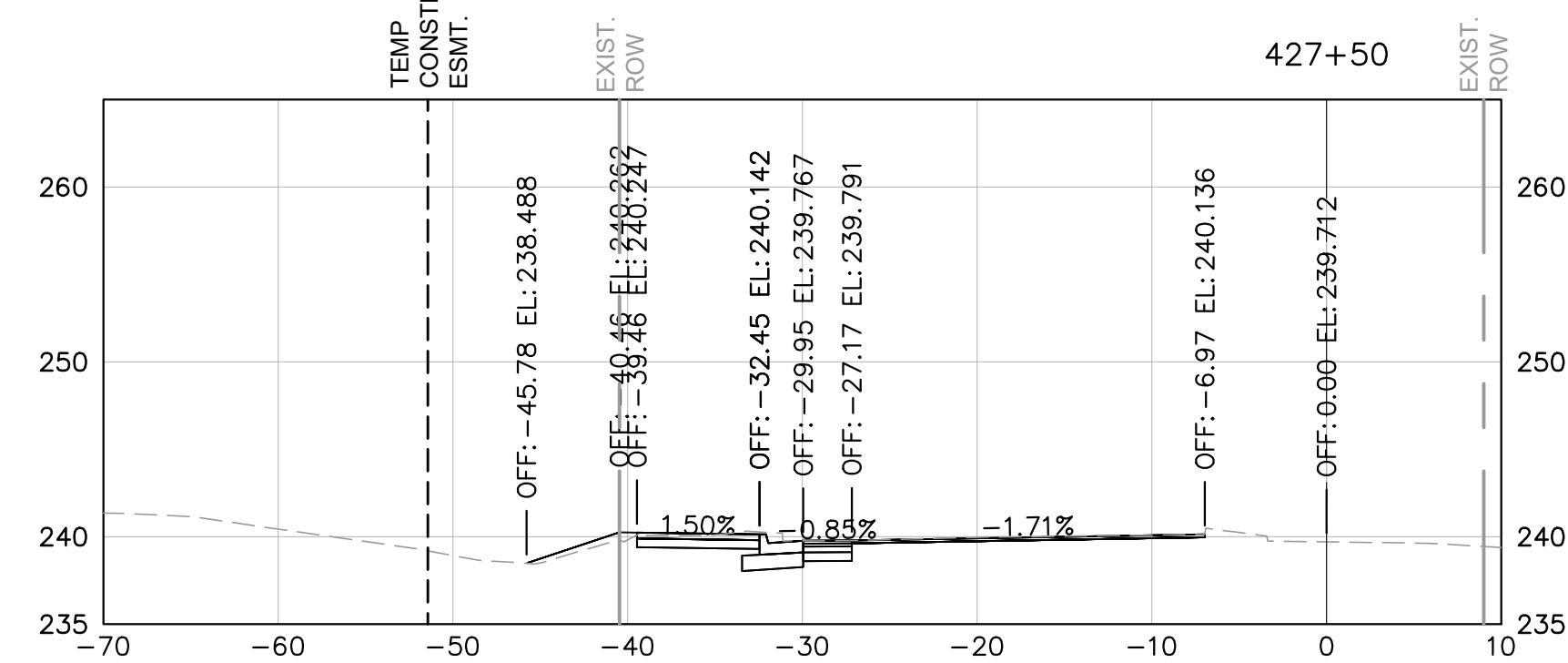
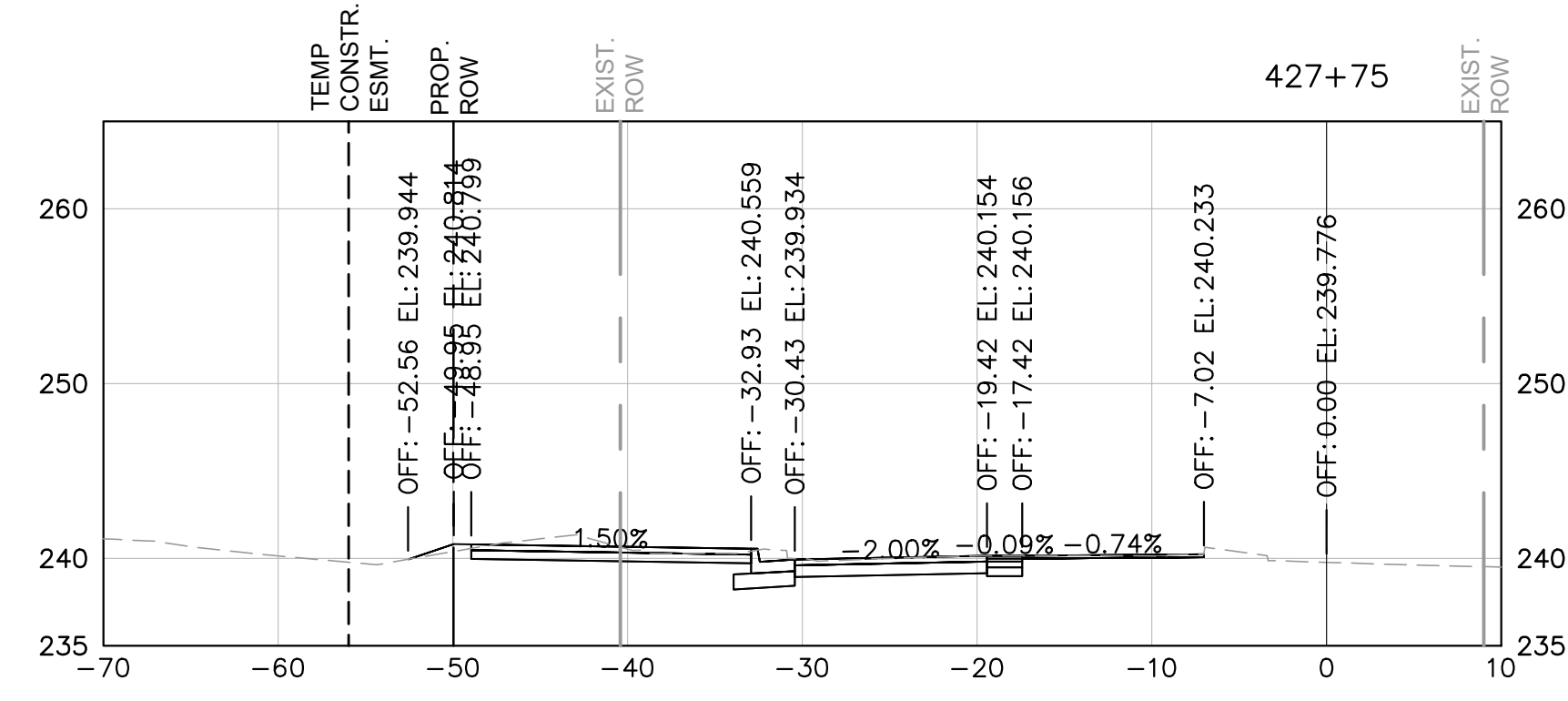
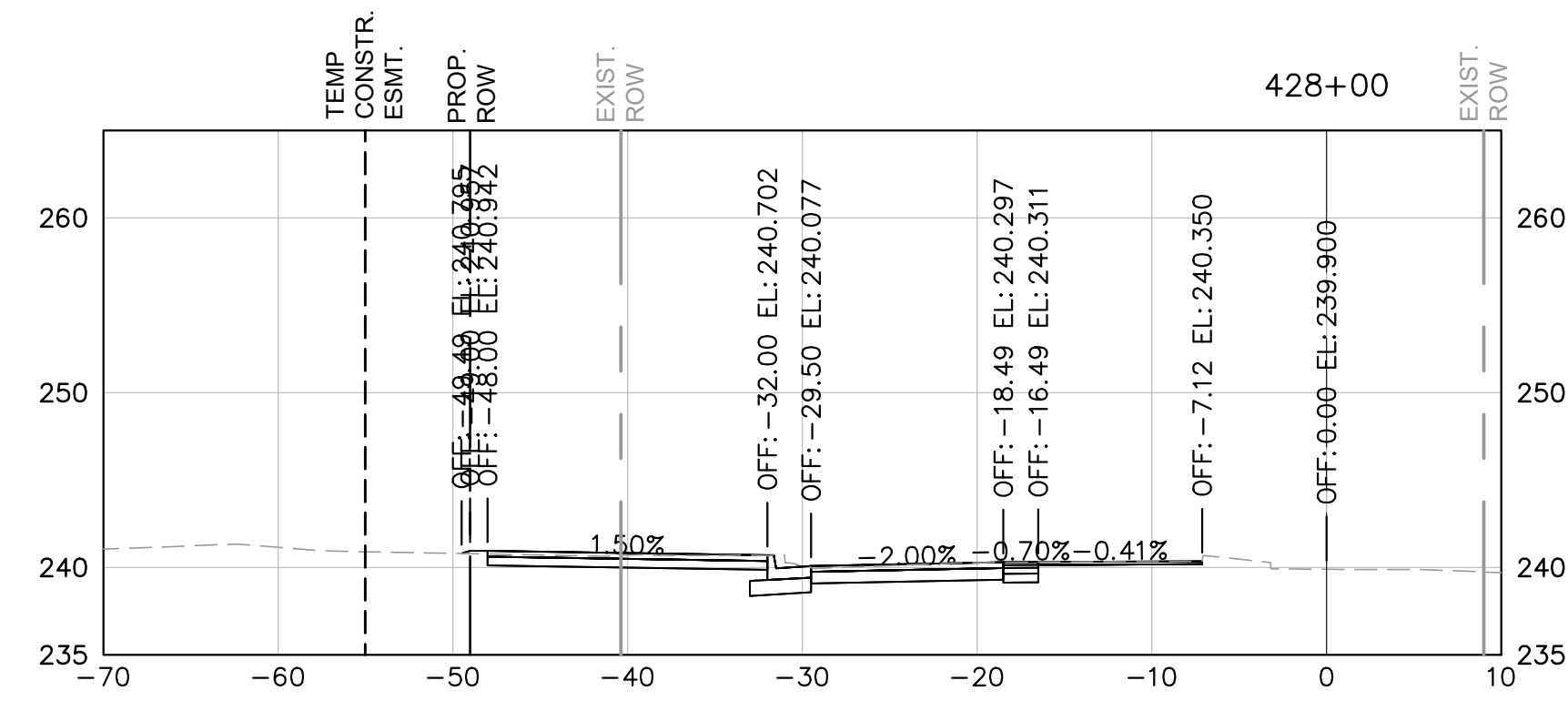
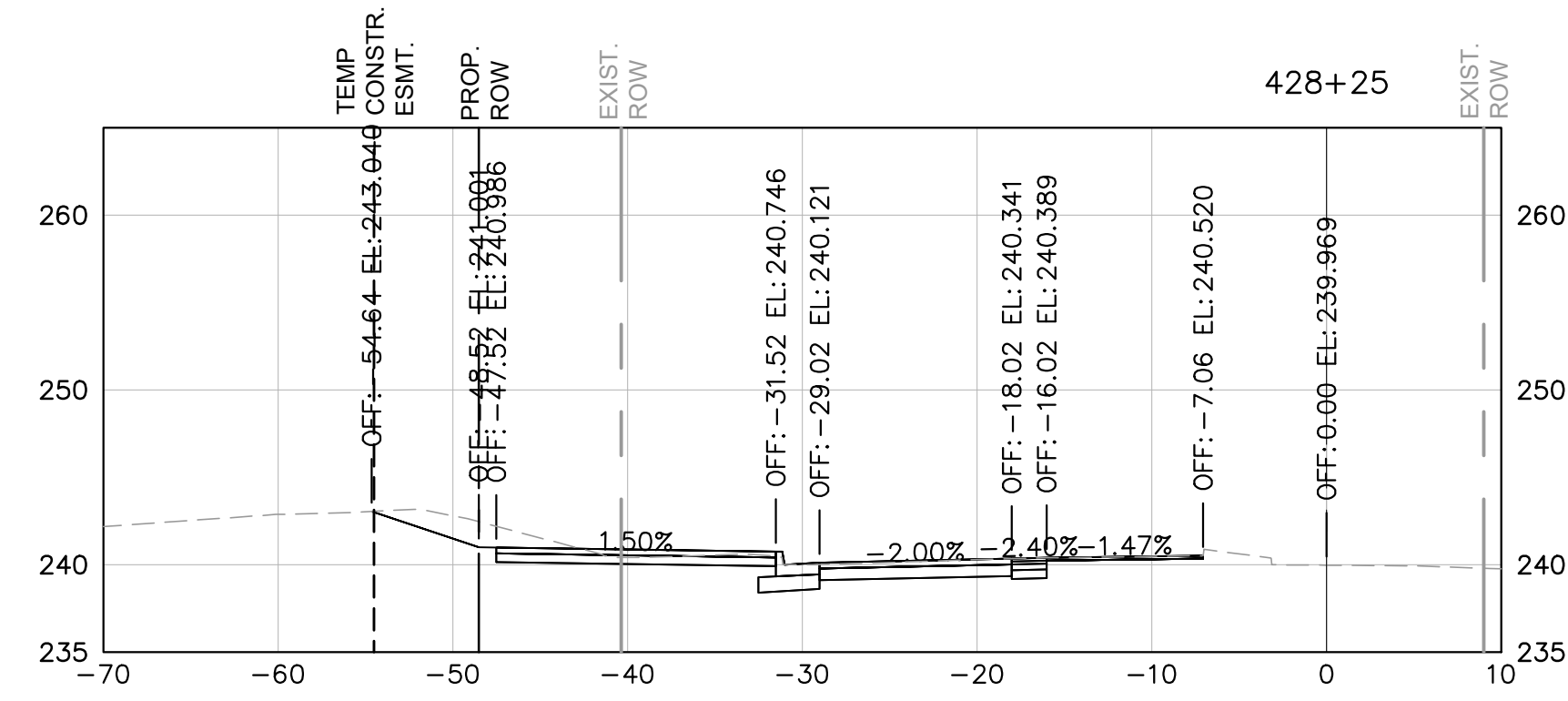
SHEET XS-18
SCALE 1" = 10'

ALEXANDRIA PROJECT NO.: 110104122
DATE OF PLAN ISSUANCE: N/A
CONSULTANT PROJECT ID: N/A
DESIGNED BY: MAT DATE: 4/5/24
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90% DESIGN PHASE

CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

REVISIONS	DATE	DESCRIPTION



WEST END TRANSITWAY – PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

CROSS SECTIONS – N
BEAUREGARD STREET AT
RAYBURN AVENUE

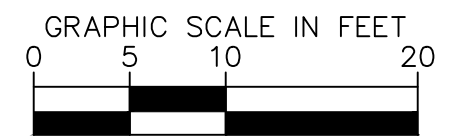
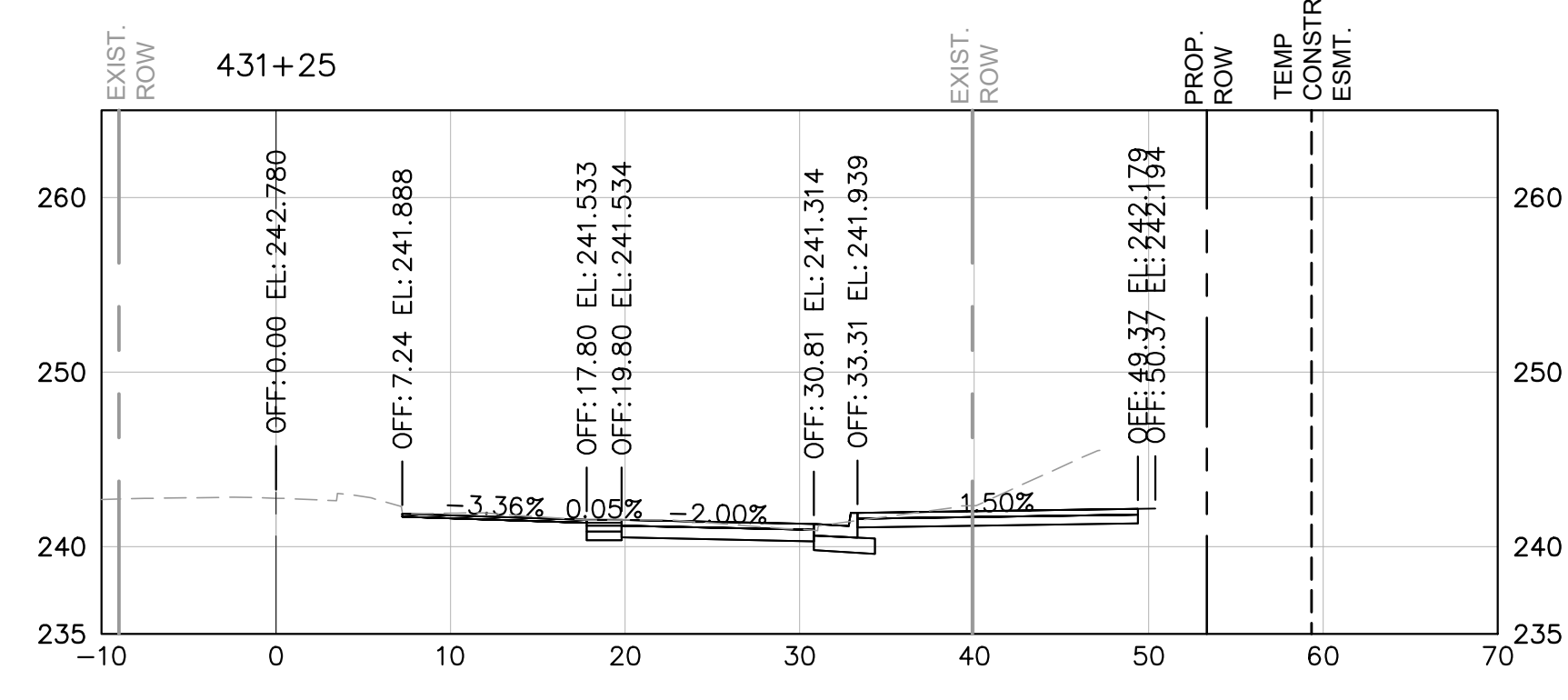
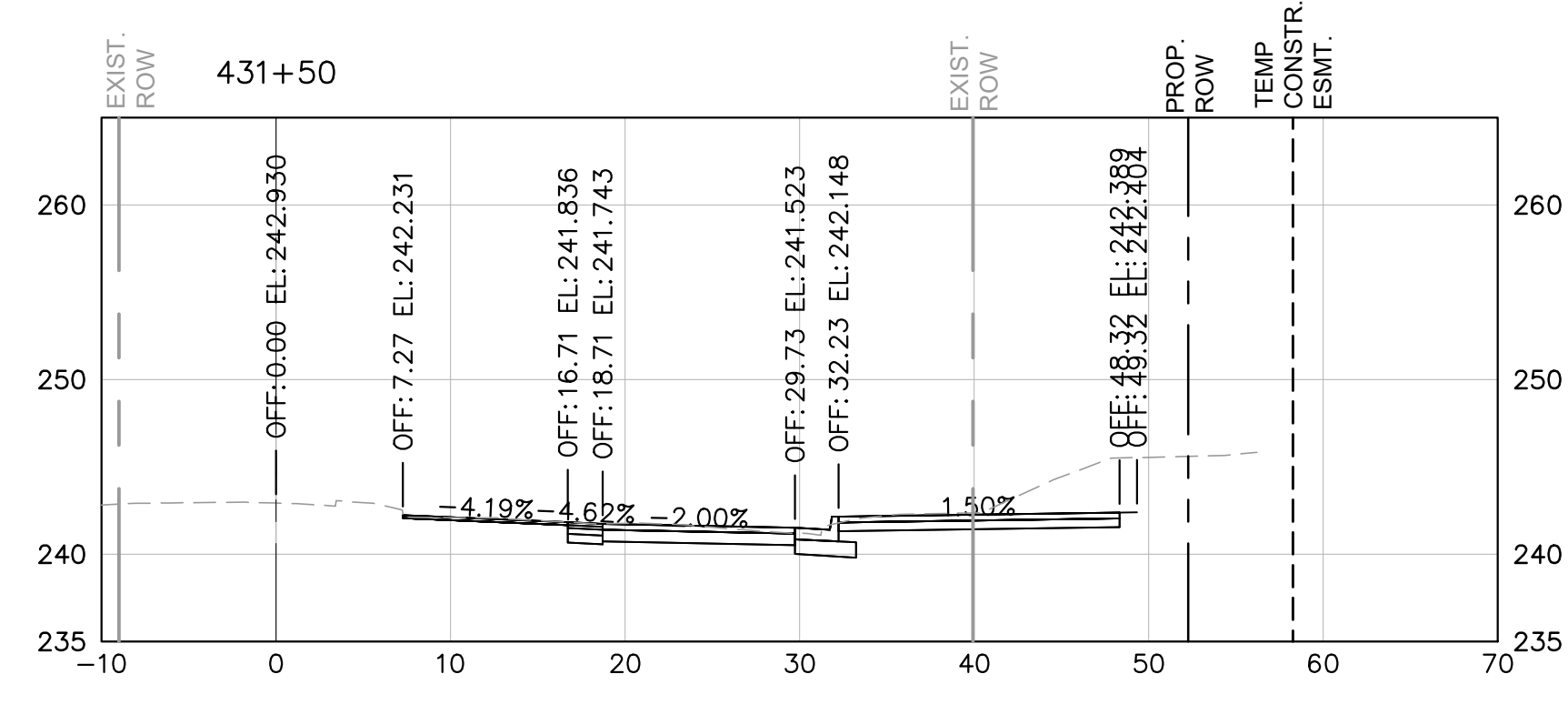
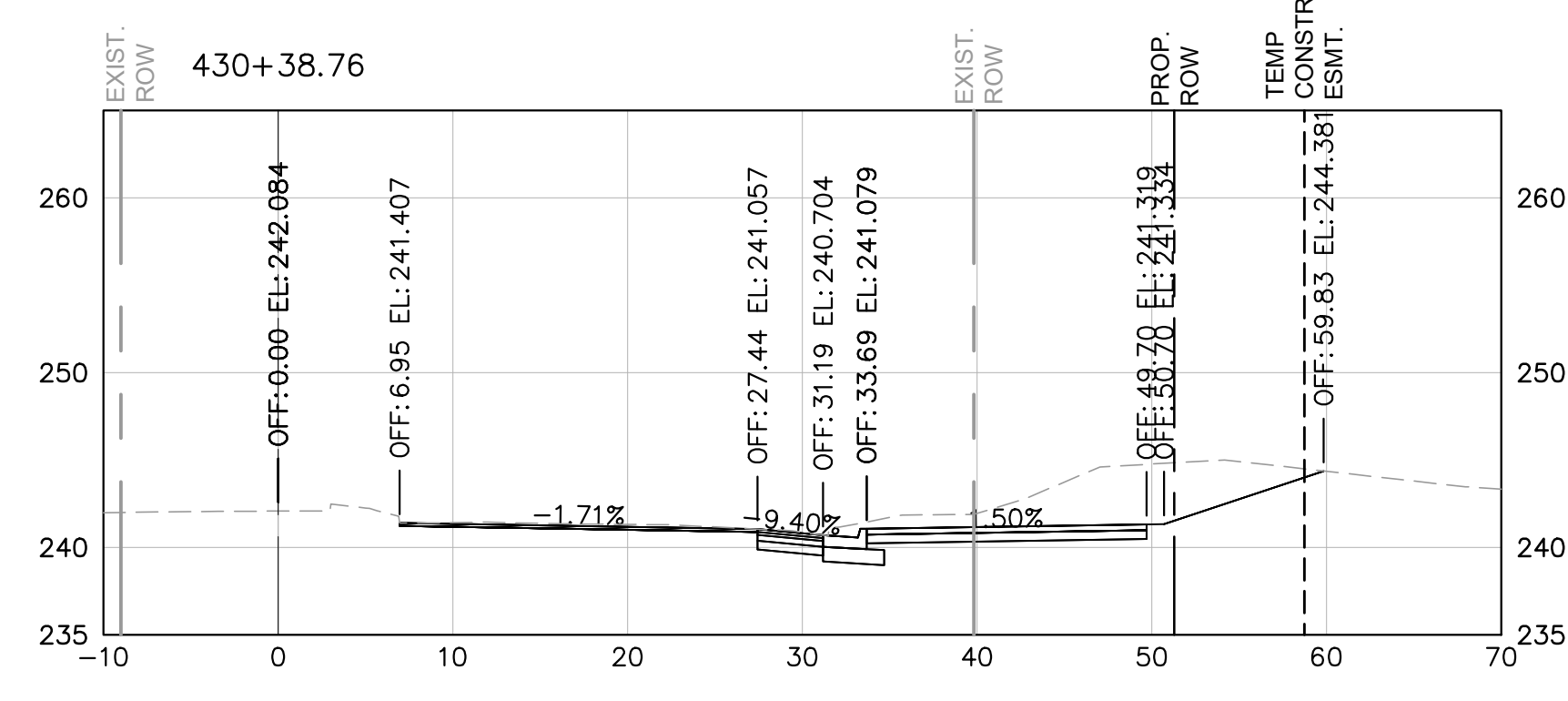
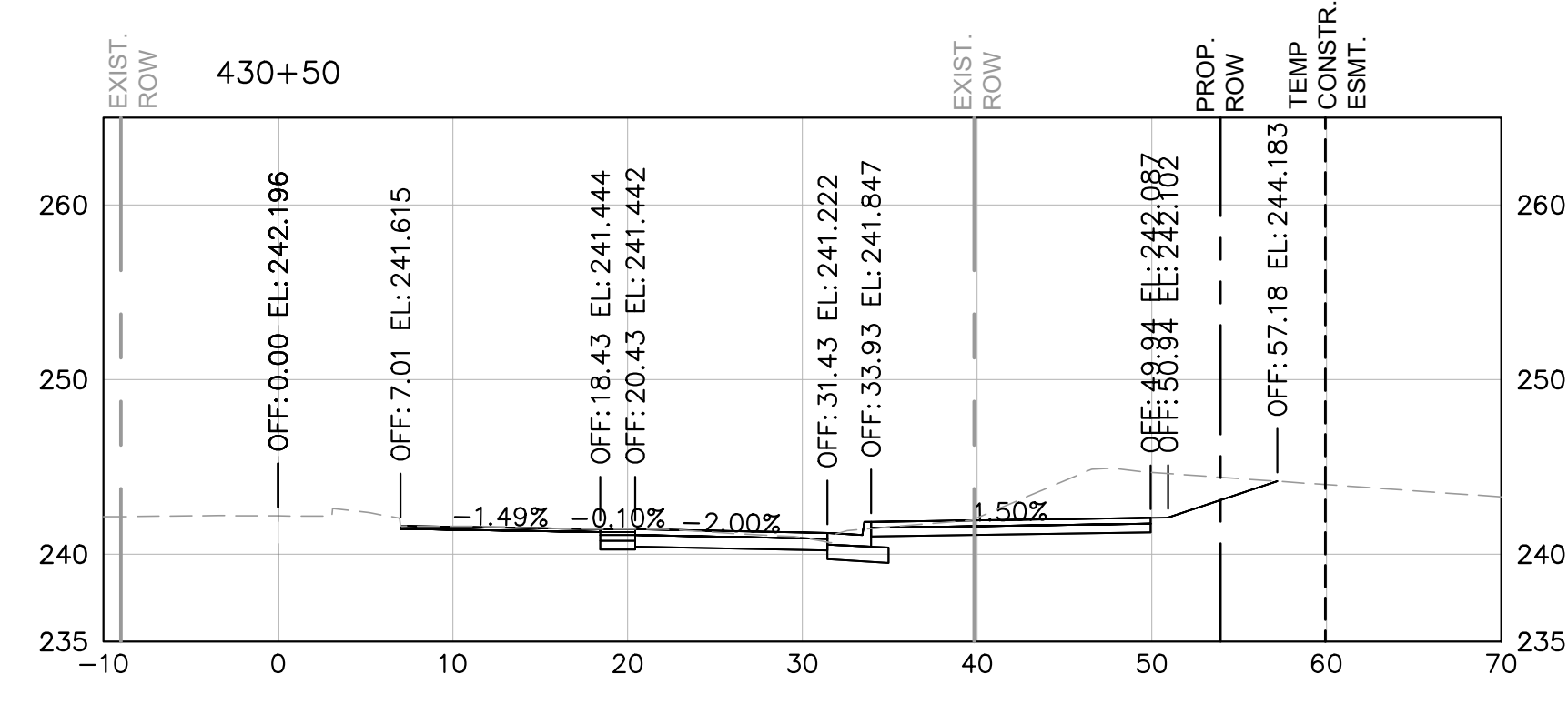
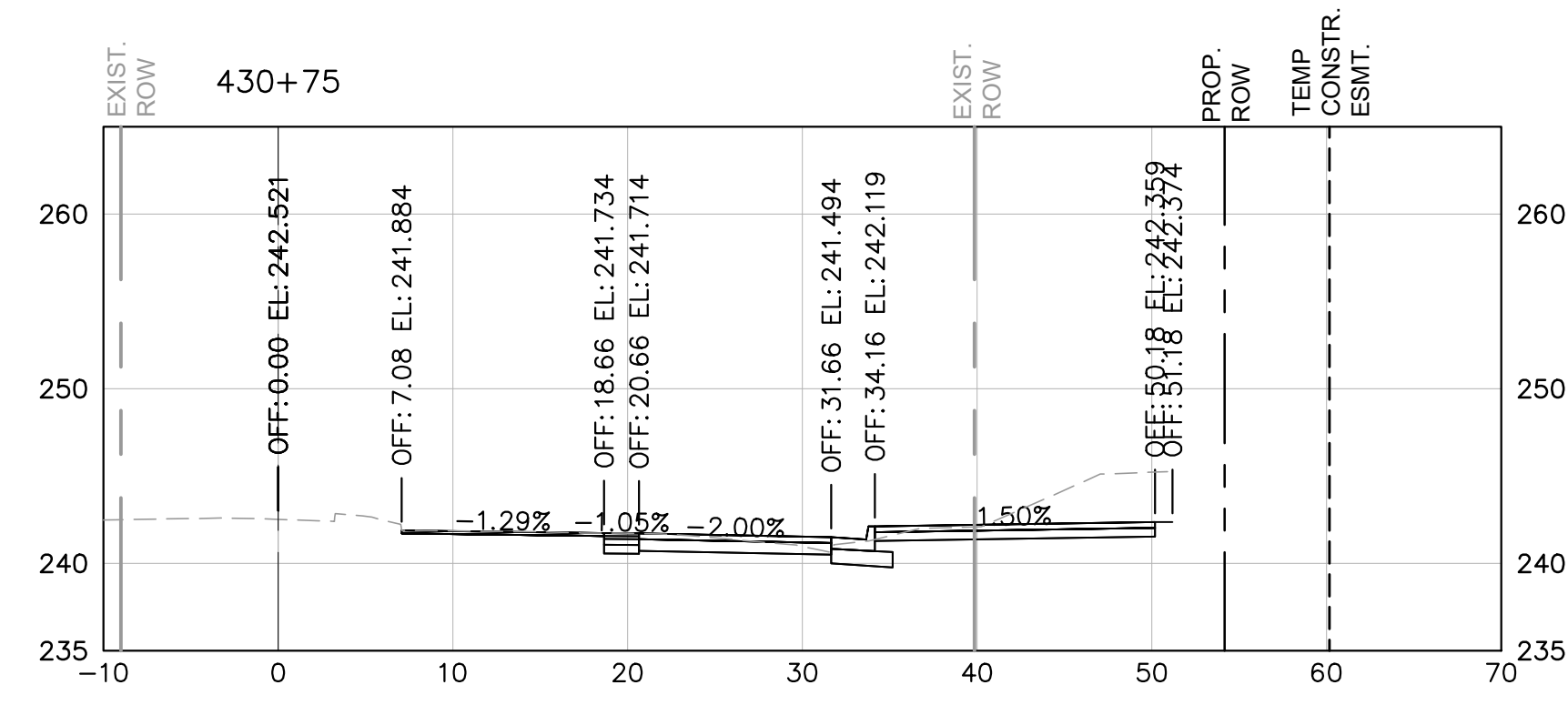
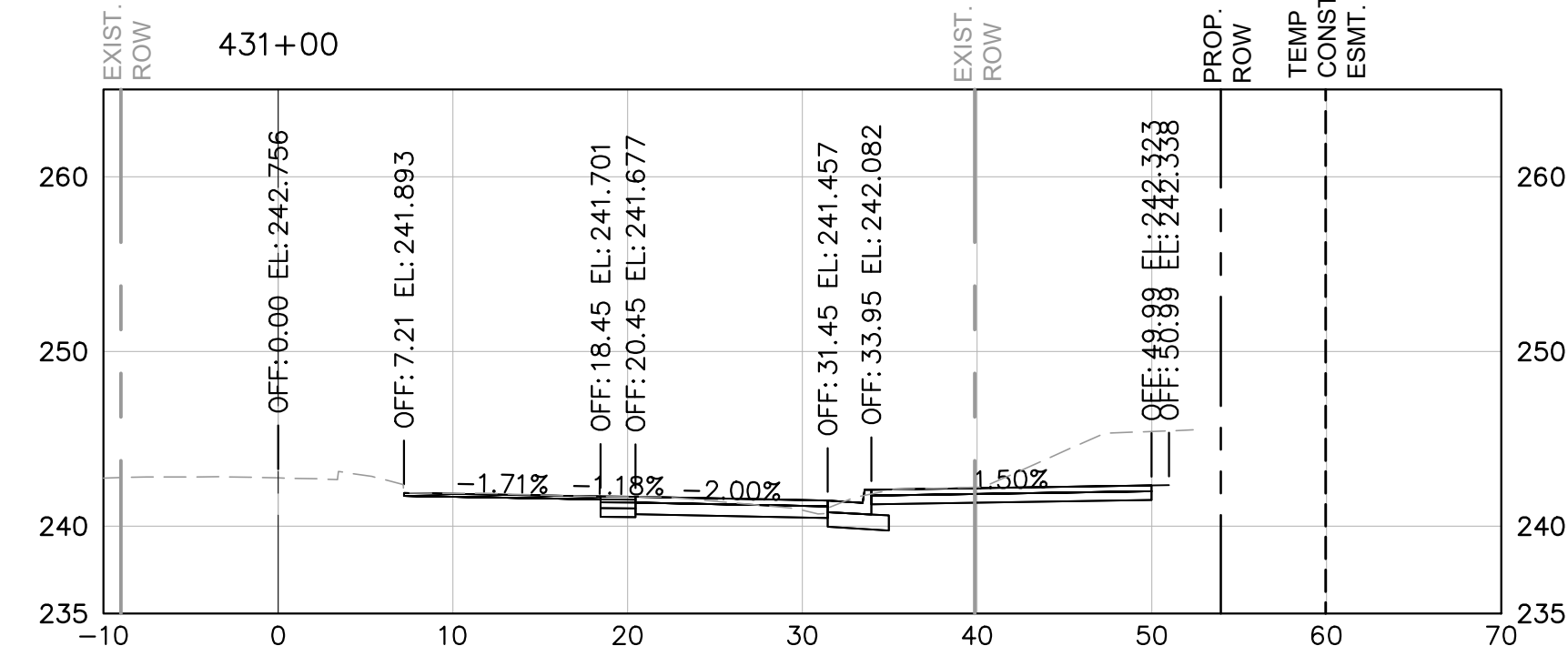
CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313



REVISIONS	DATE	BY	DESCRIPTION

ALEXANDRIA PROJECT NO.: 110104122
DATE OF PLAN ISSUANCE: N/A
CONSULTANT PROJECT ID: N/A
DESIGNED BY: MAT DATE: 4/5/24
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APPROVED BY: _____ DATE: _____

SHEET
XS-19
SCALE 1" = 10'

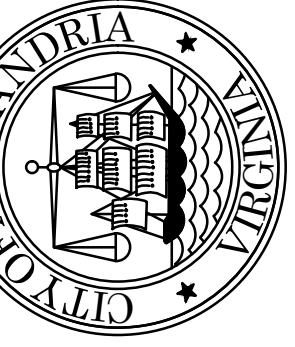


WEST END TRANSITWAY – PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

CROSS SECTIONS – N
BEAUREGARD STREET AT
RAYBURN AVENUE

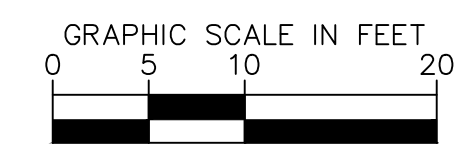
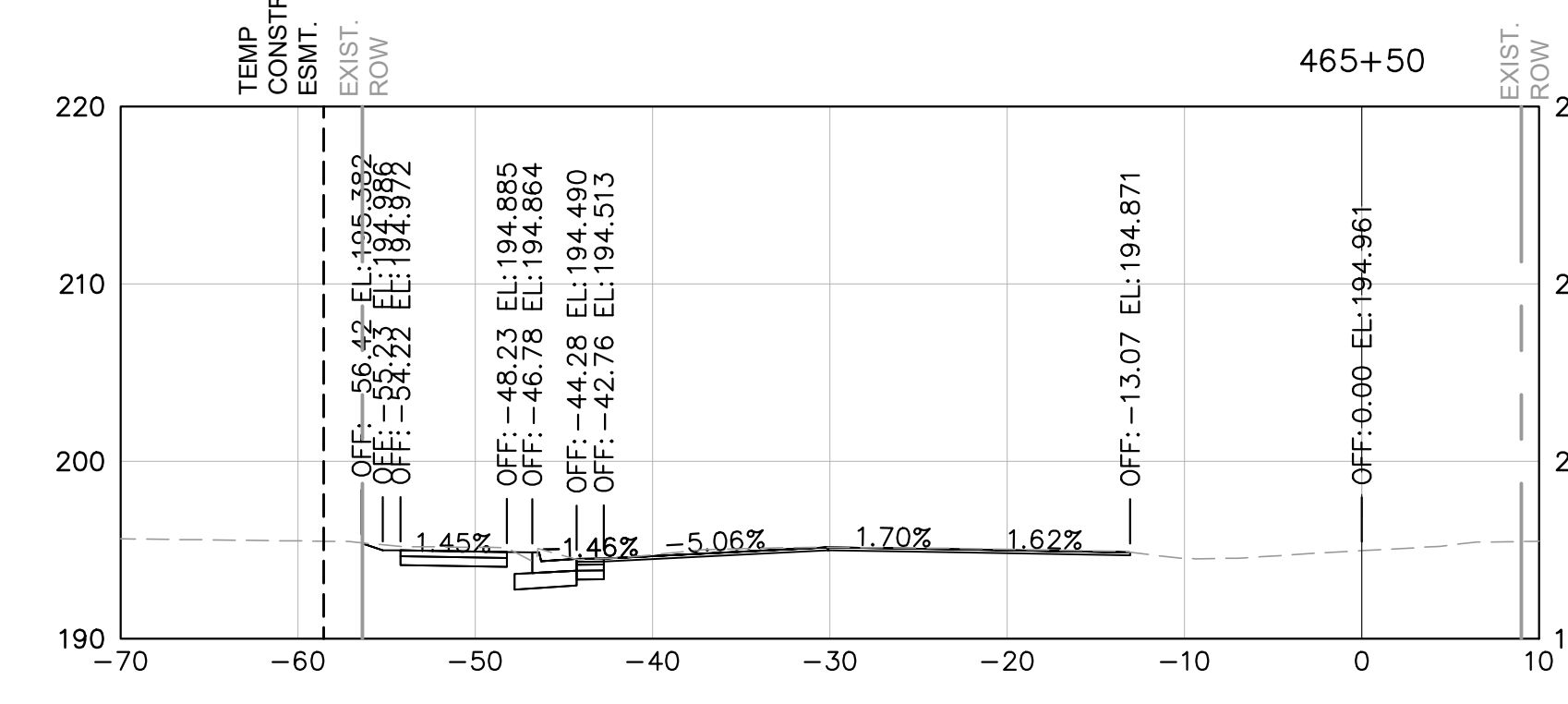
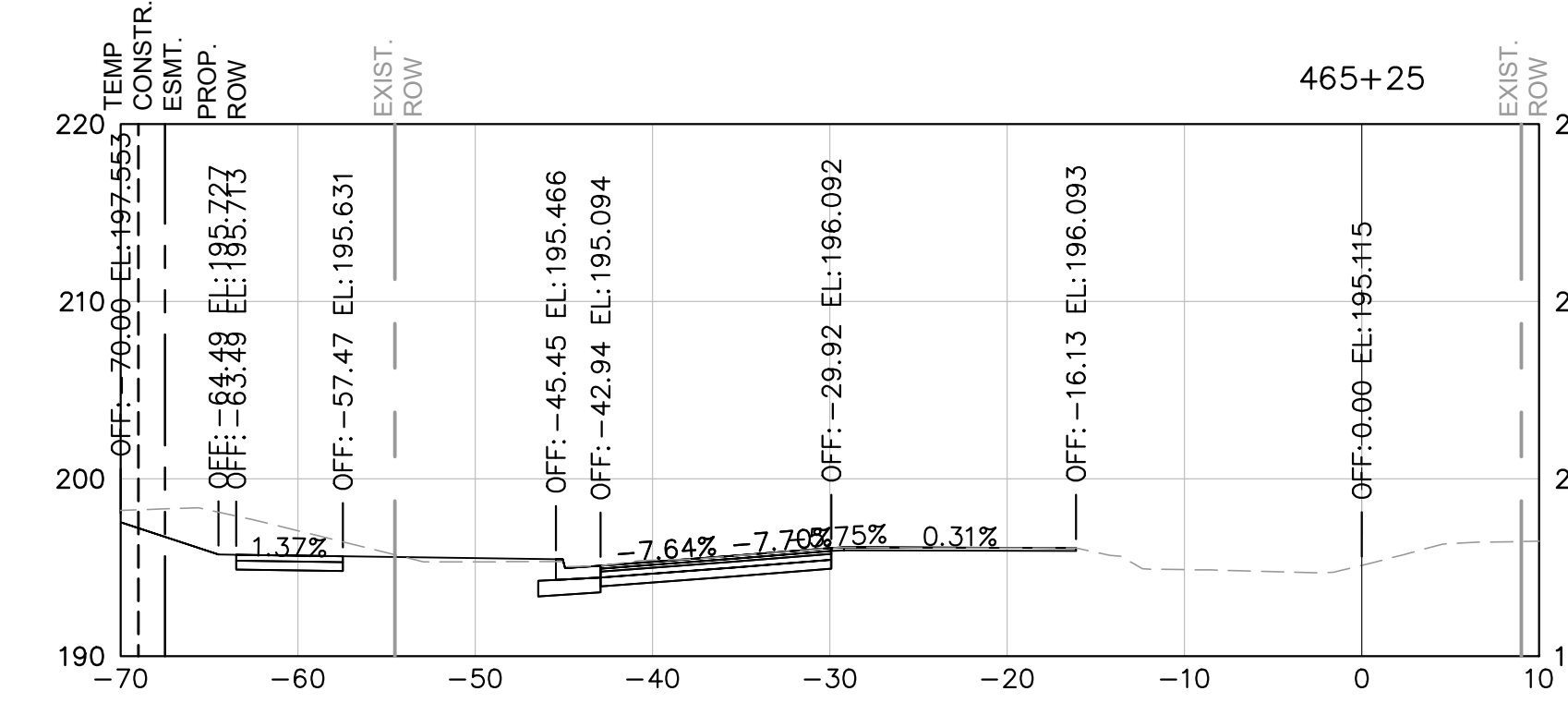
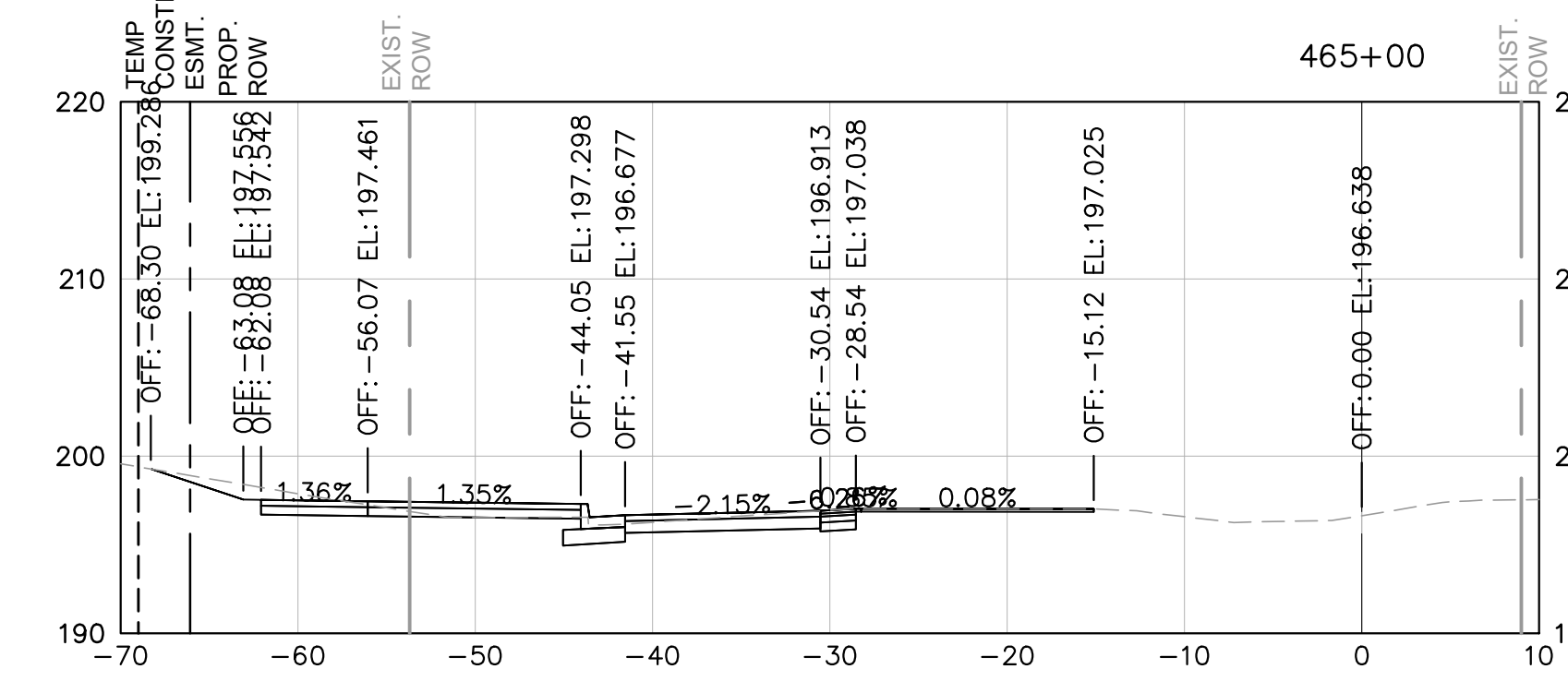
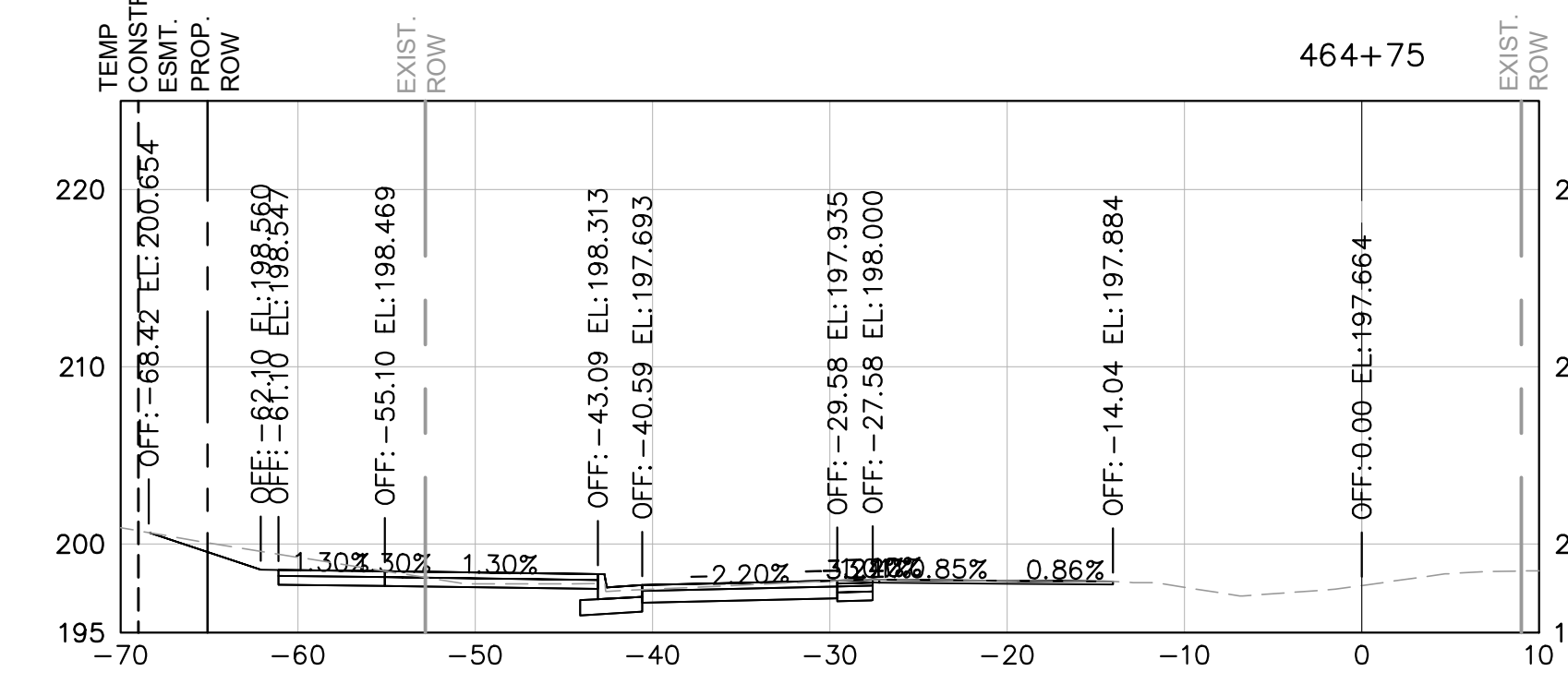
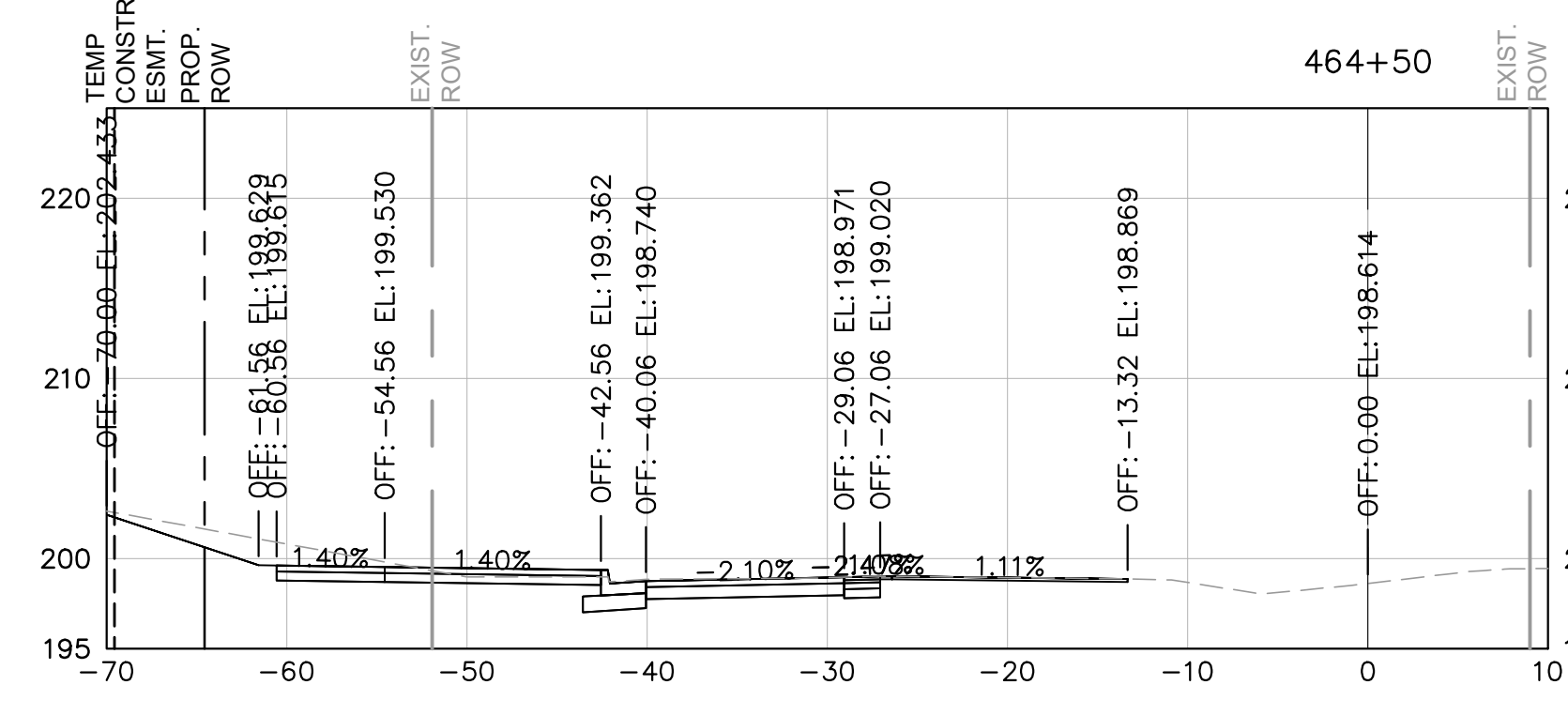
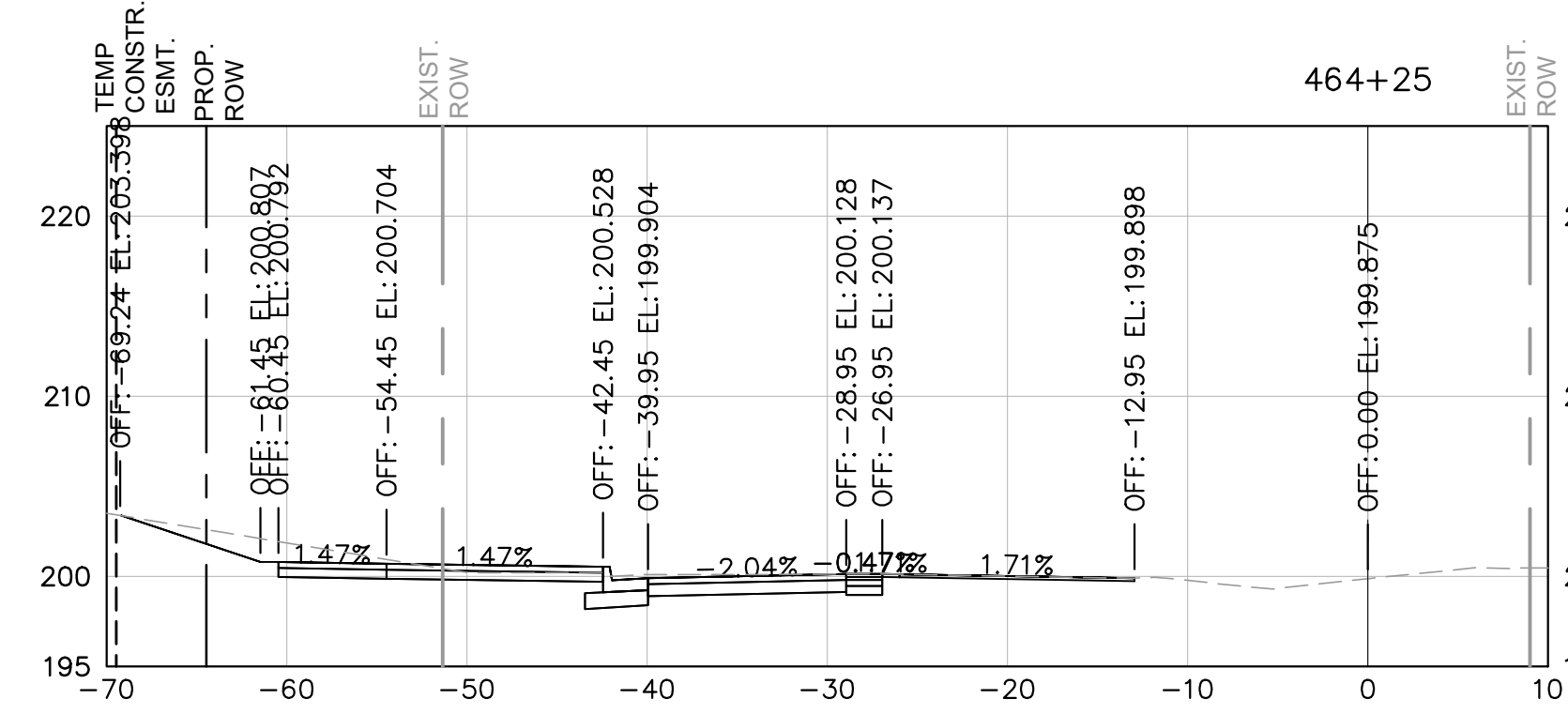
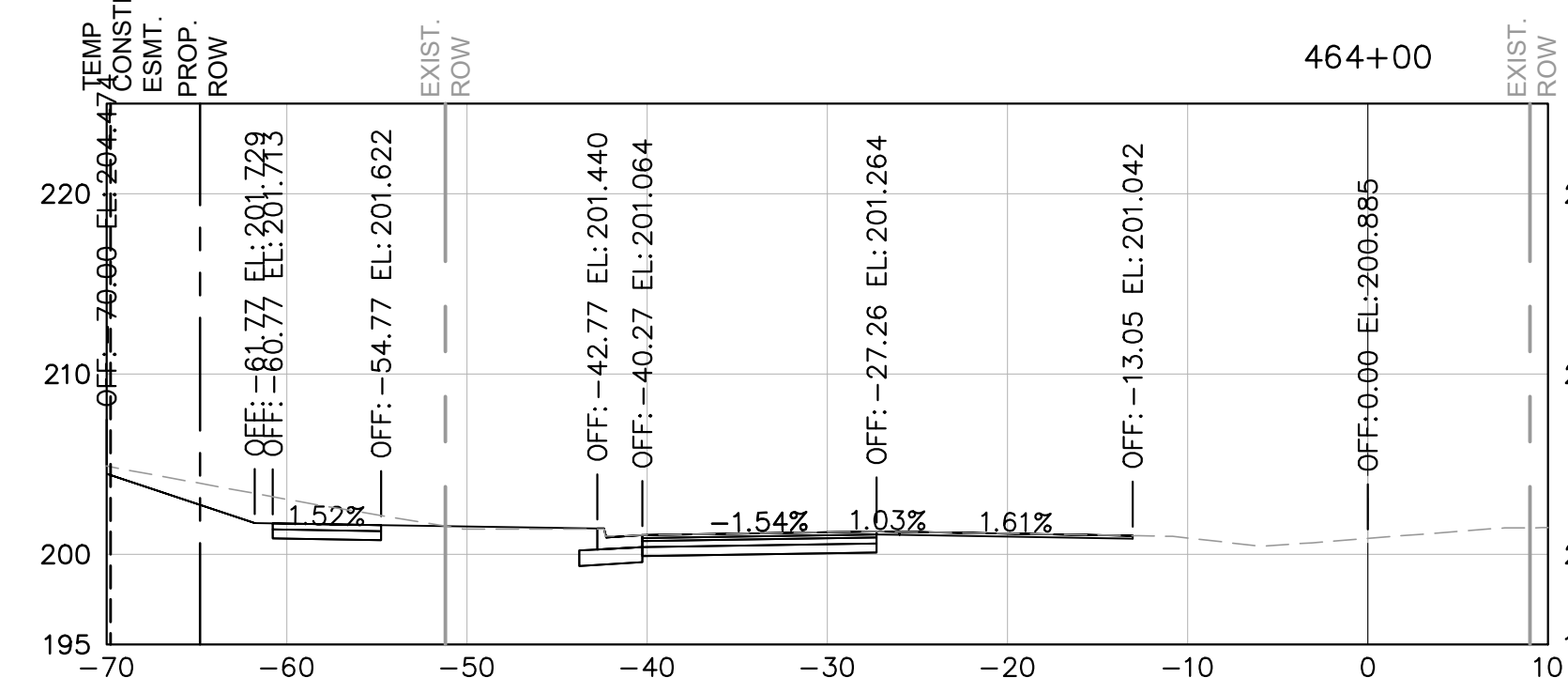
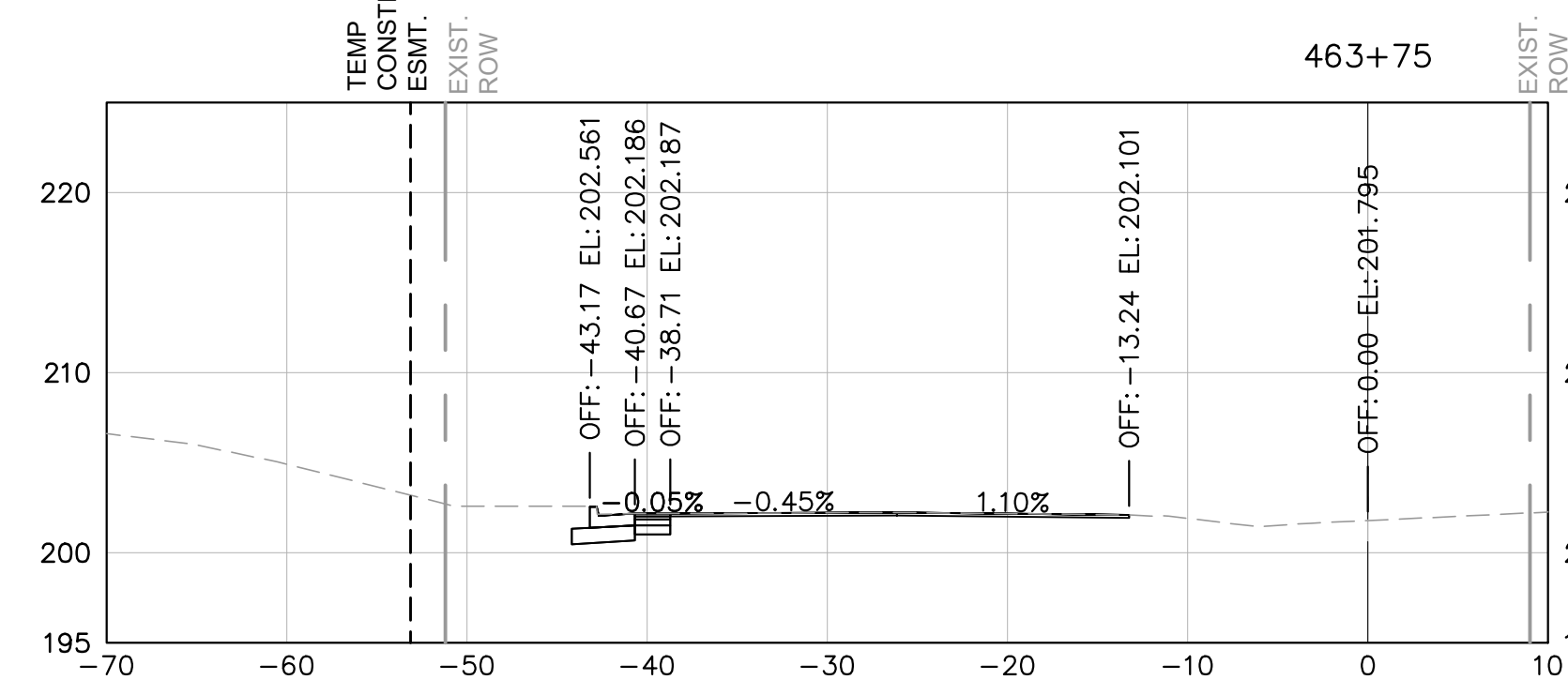
CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313



REVISIONS	DATE	BY	DESCRIPTION

ALEXANDRIA PROJECT NO.: 110104122
DATE OF PLAN ISSUANCE: N/A
CONSULTANT PROJECT ID: N/A
DESIGNED BY: MAT DATE: 4/5/24
DRAWN BY: MAT DATE: 4/5/24
CHECKED BY: EJD DATE: 4/5/24
APPROVED BY: _____ DATE: _____

SHEET
XS-20
SCALE 1" = 10'



WEST END TRANSITWAY – PHASE 1 IMPROVEMENTS

CROSS SECTIONS – N
BEAUREGARD STREET AT
FILLMORE AVENUE

SHEET
XS-21
SCALE 1" = 10'

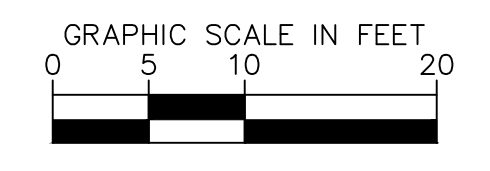
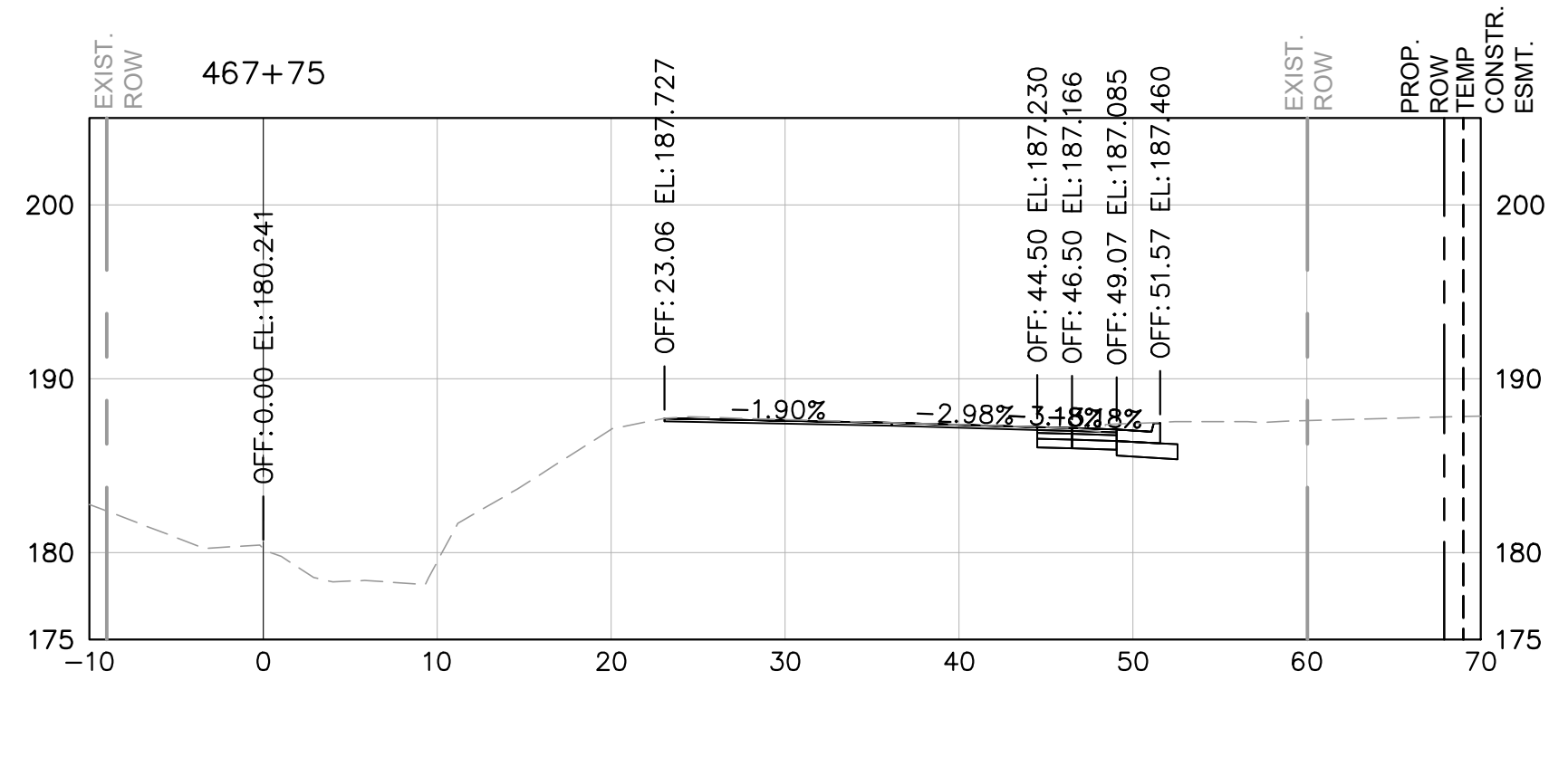
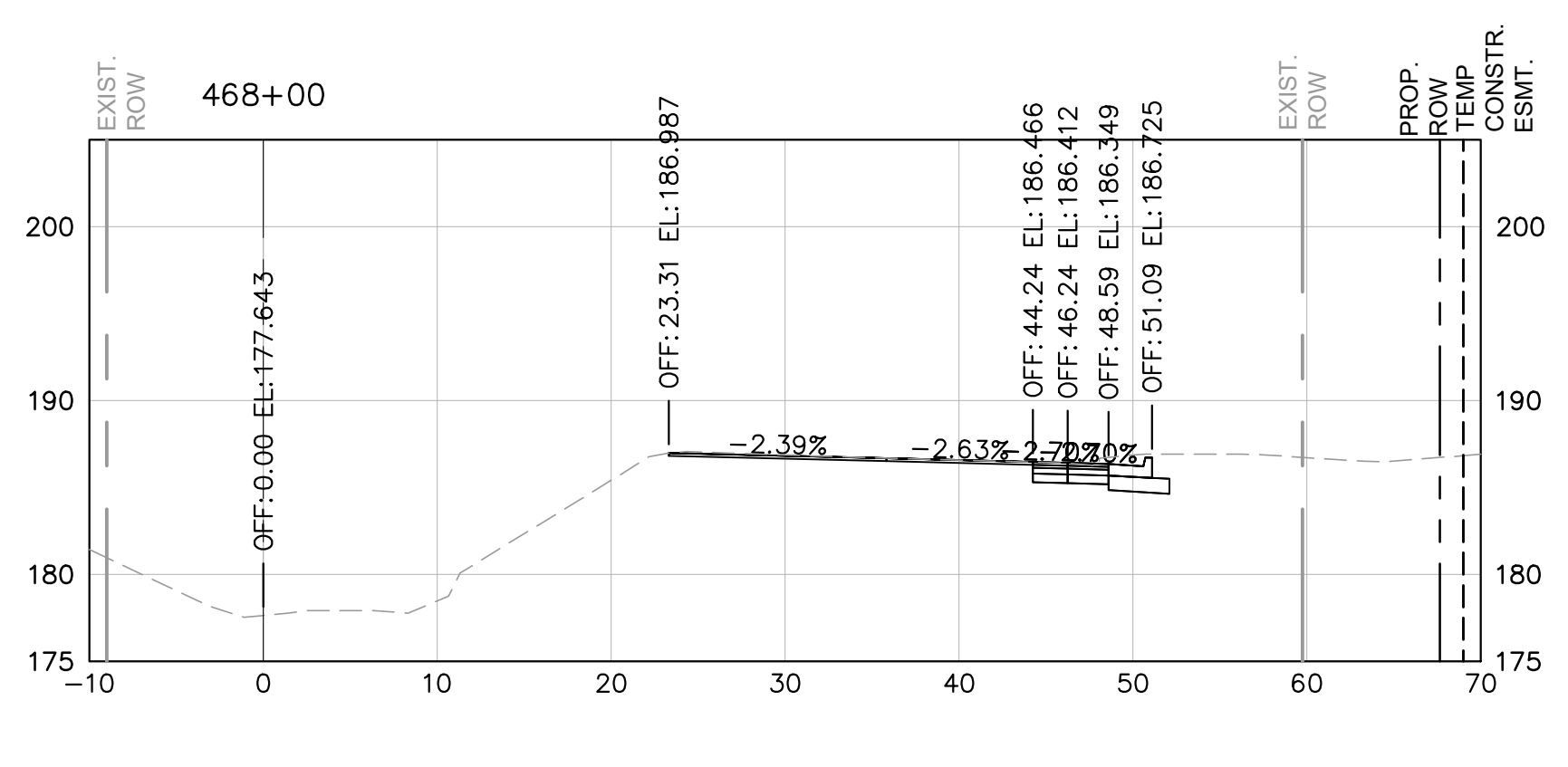
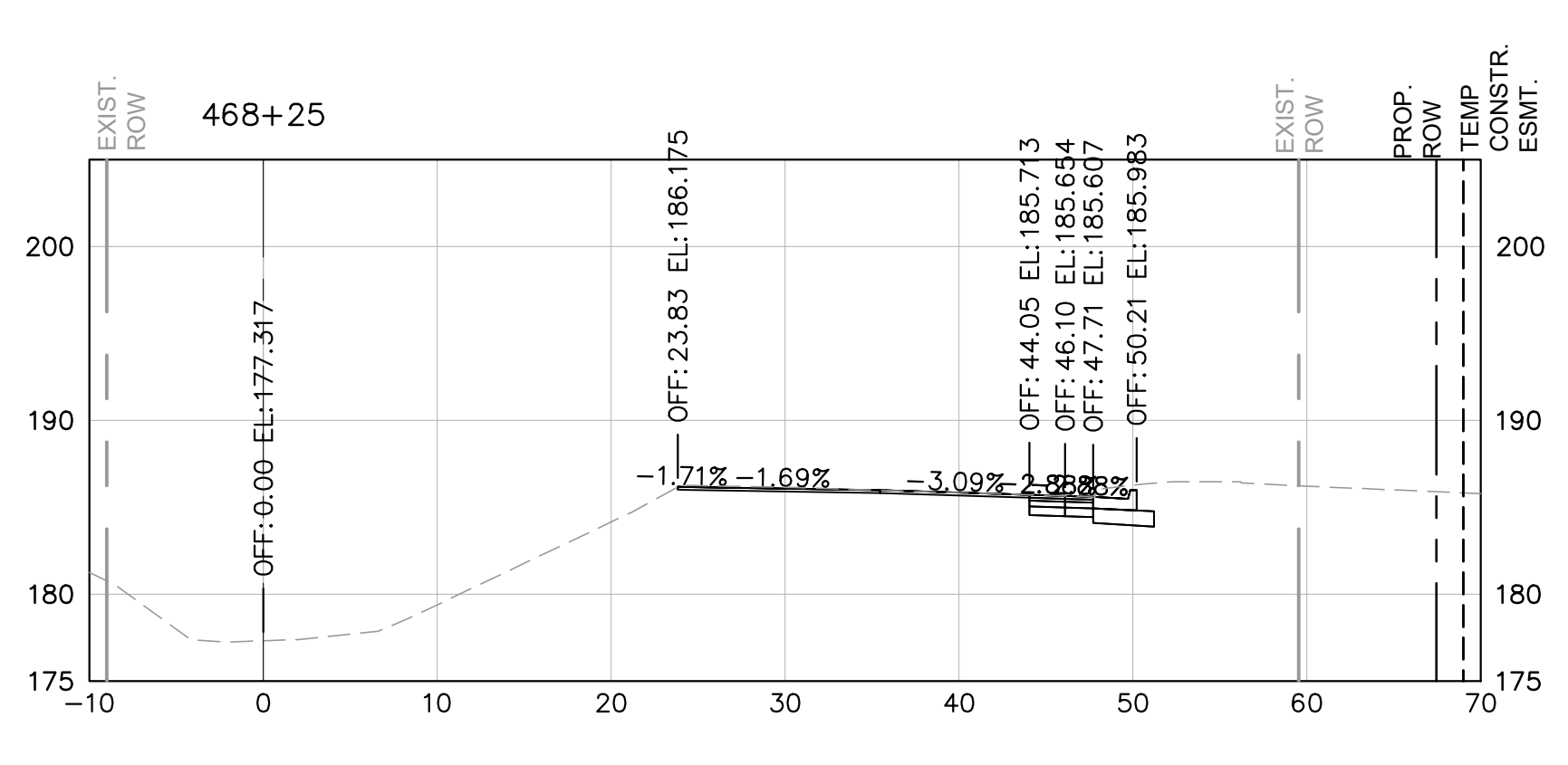
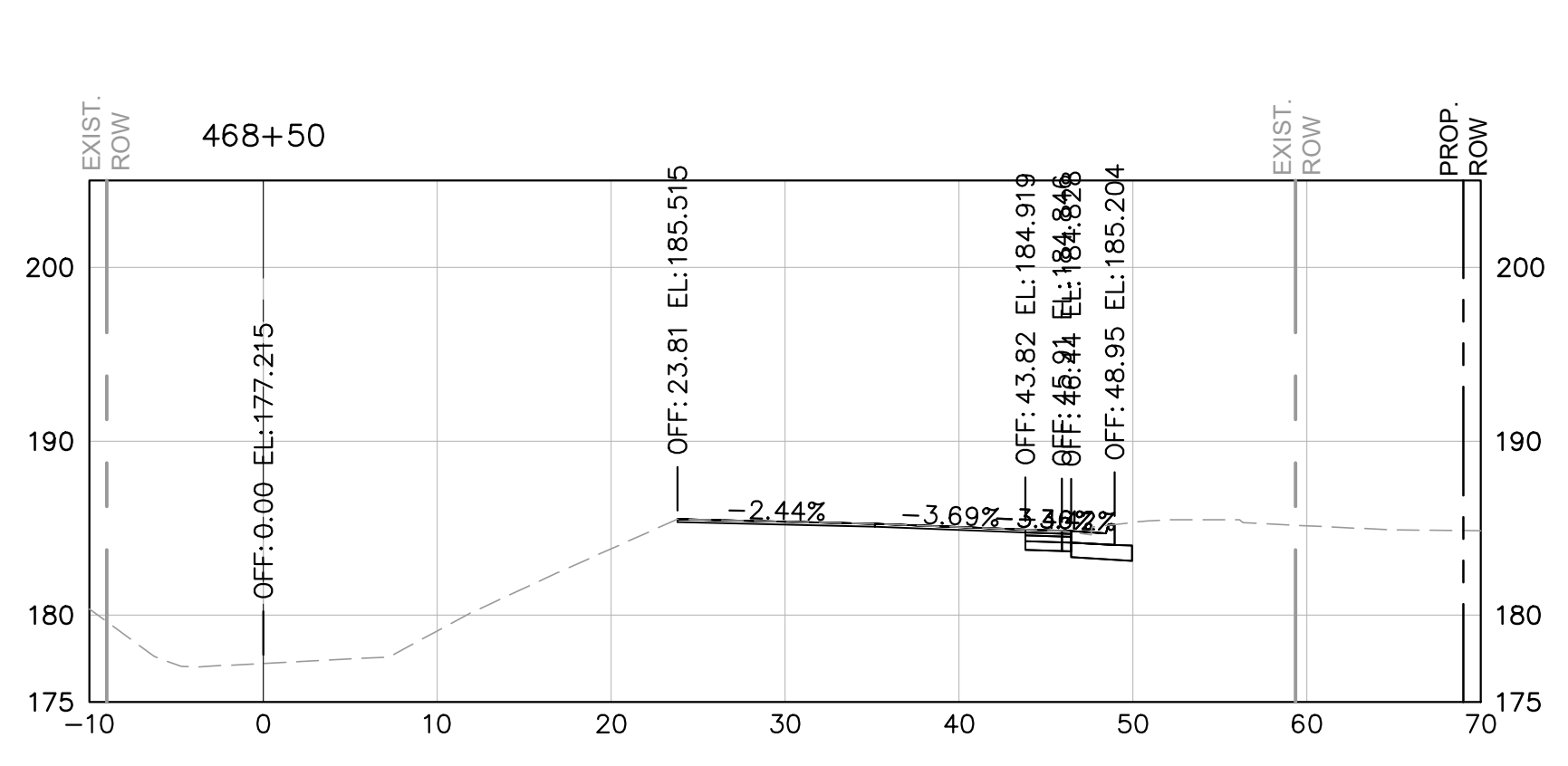
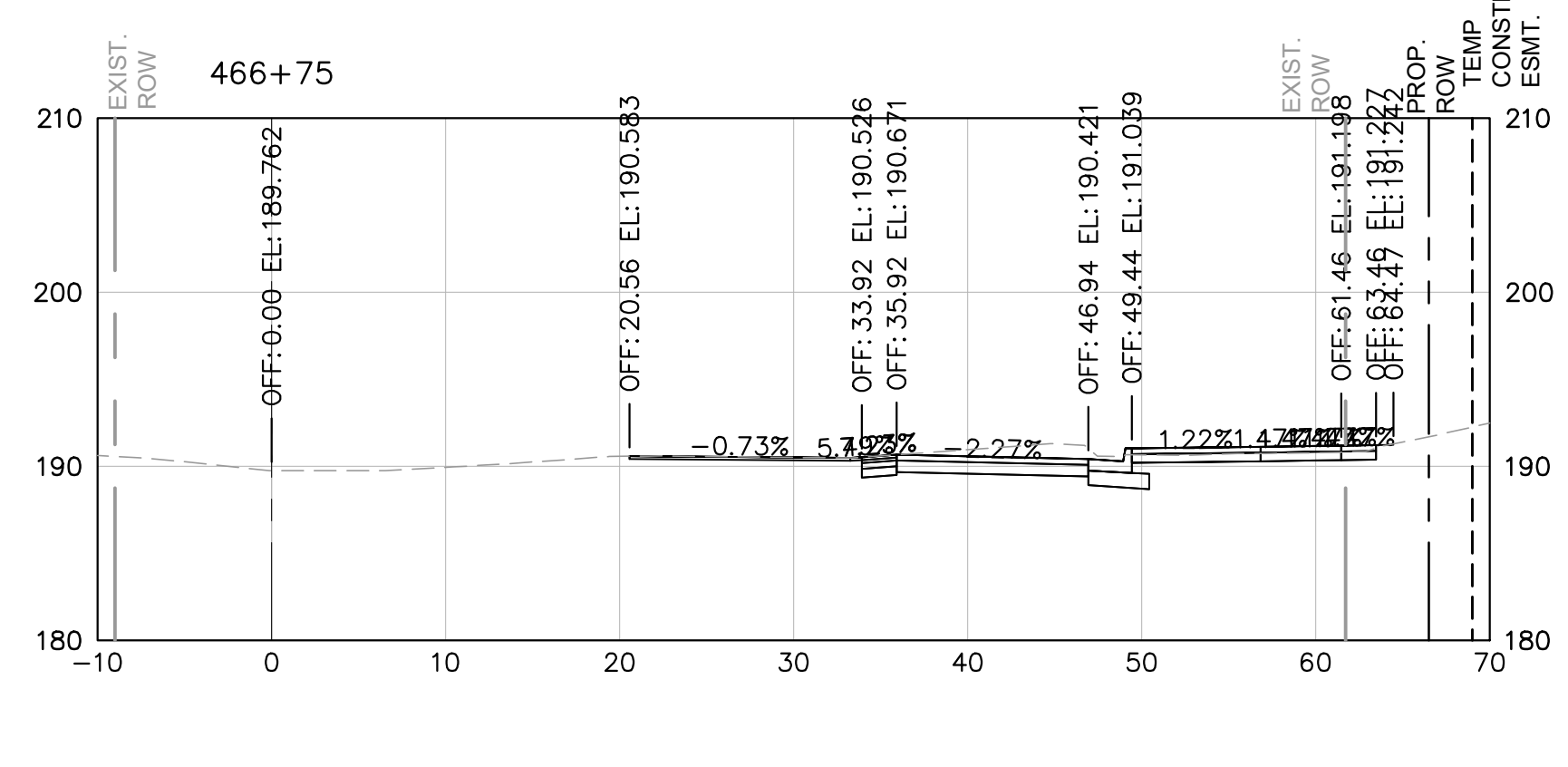
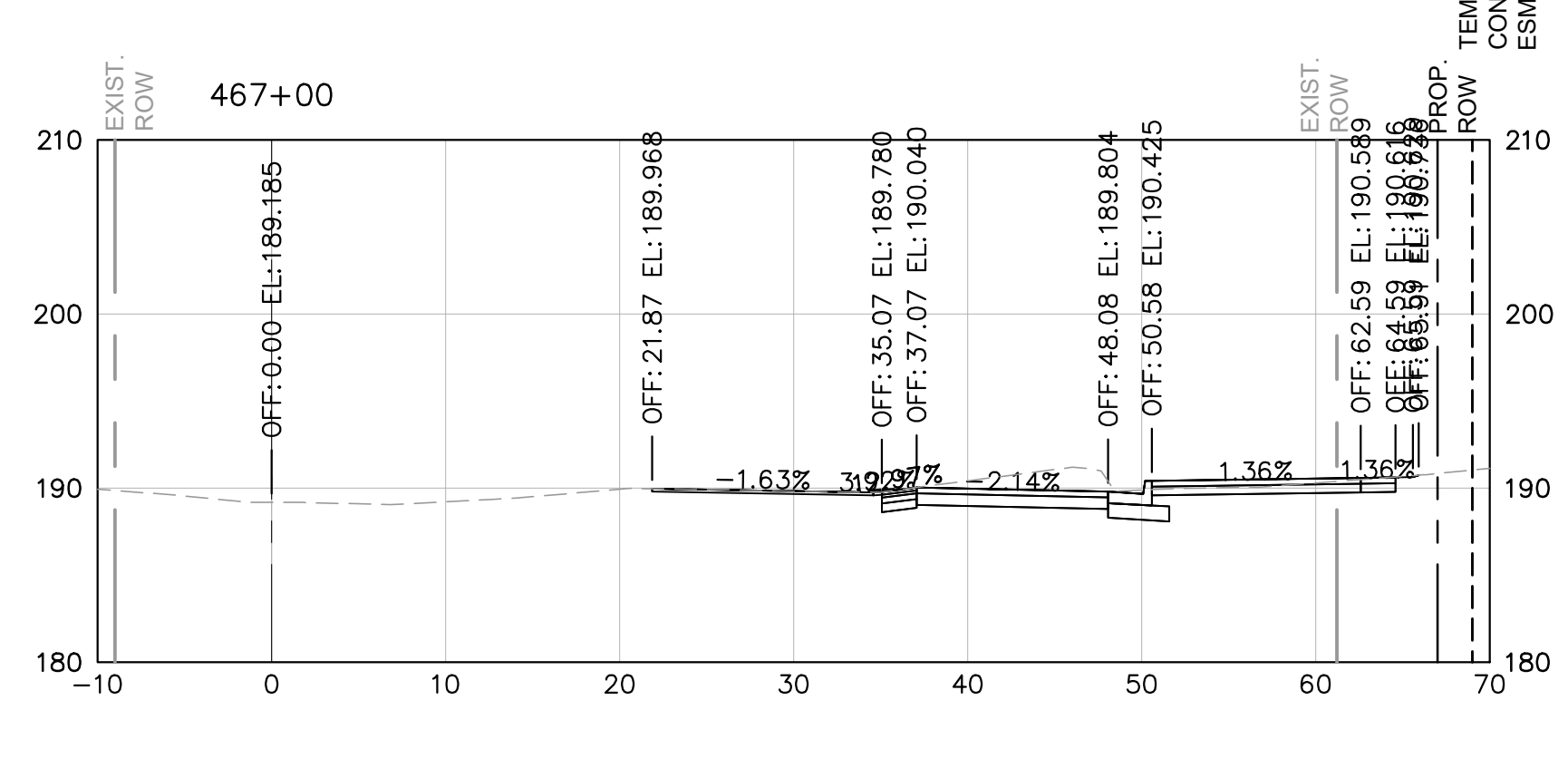
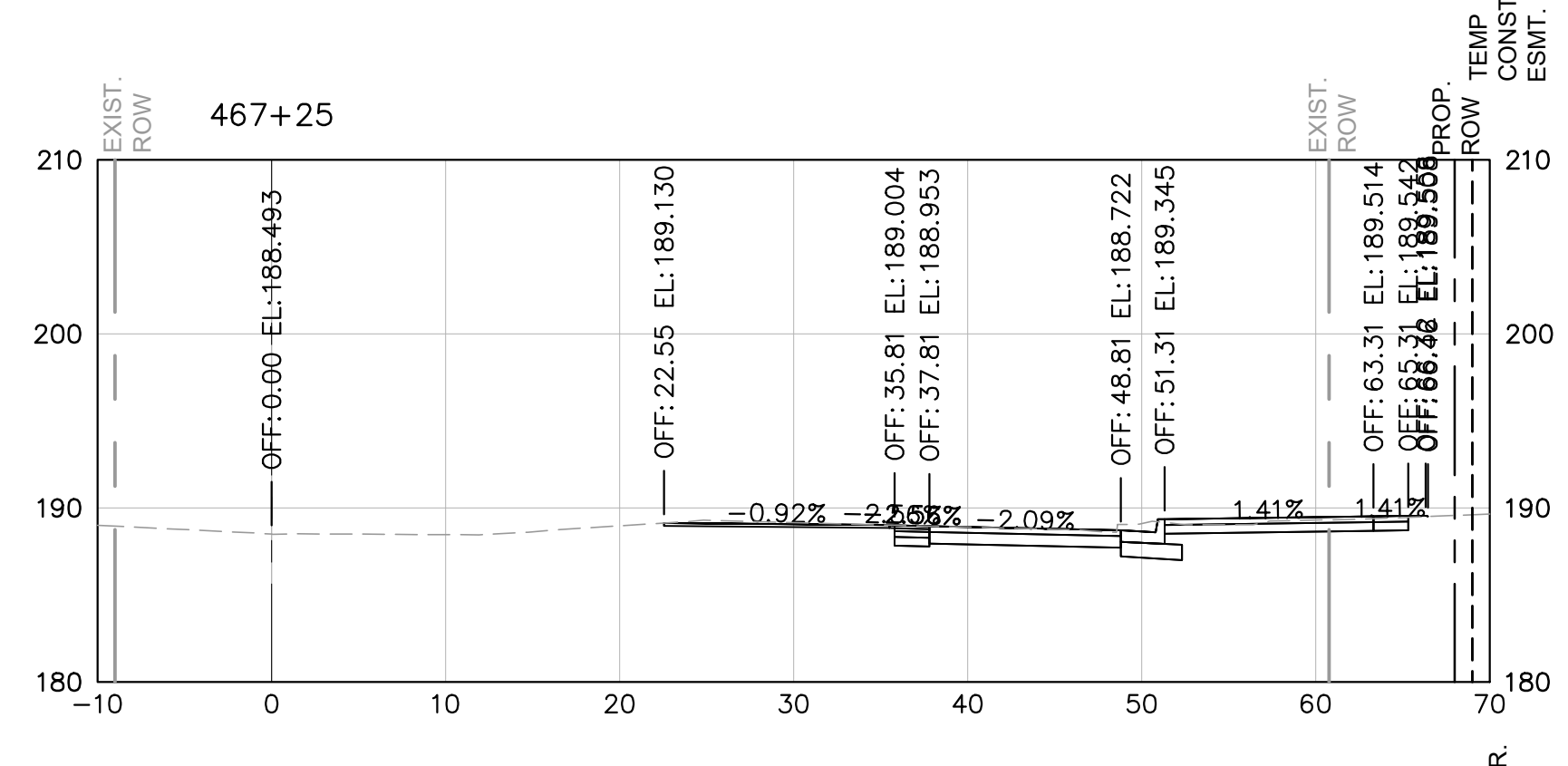
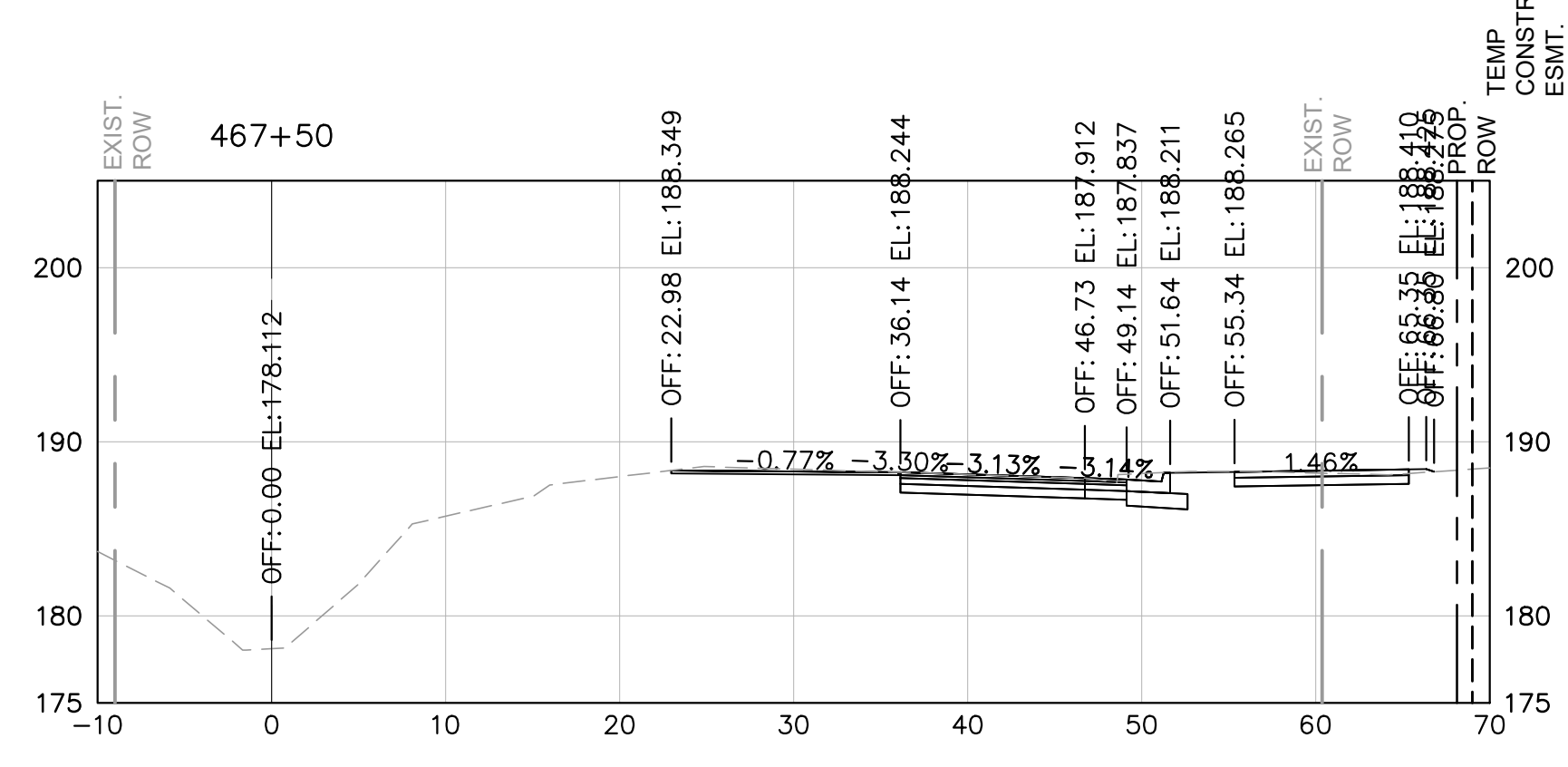
ALEXANDRIA PROJECT NO.: 110104122
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 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: MAT DATE: 4/5/24
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REVISIONS	DATE	DESCRIPTION

90% DESIGN PHASE

CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313





CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

WEST END TRANSITWAY – PHASE 1 IMPROVEMENTS

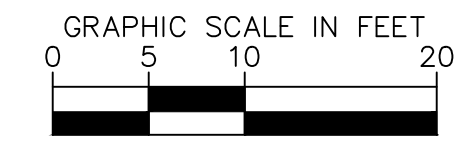
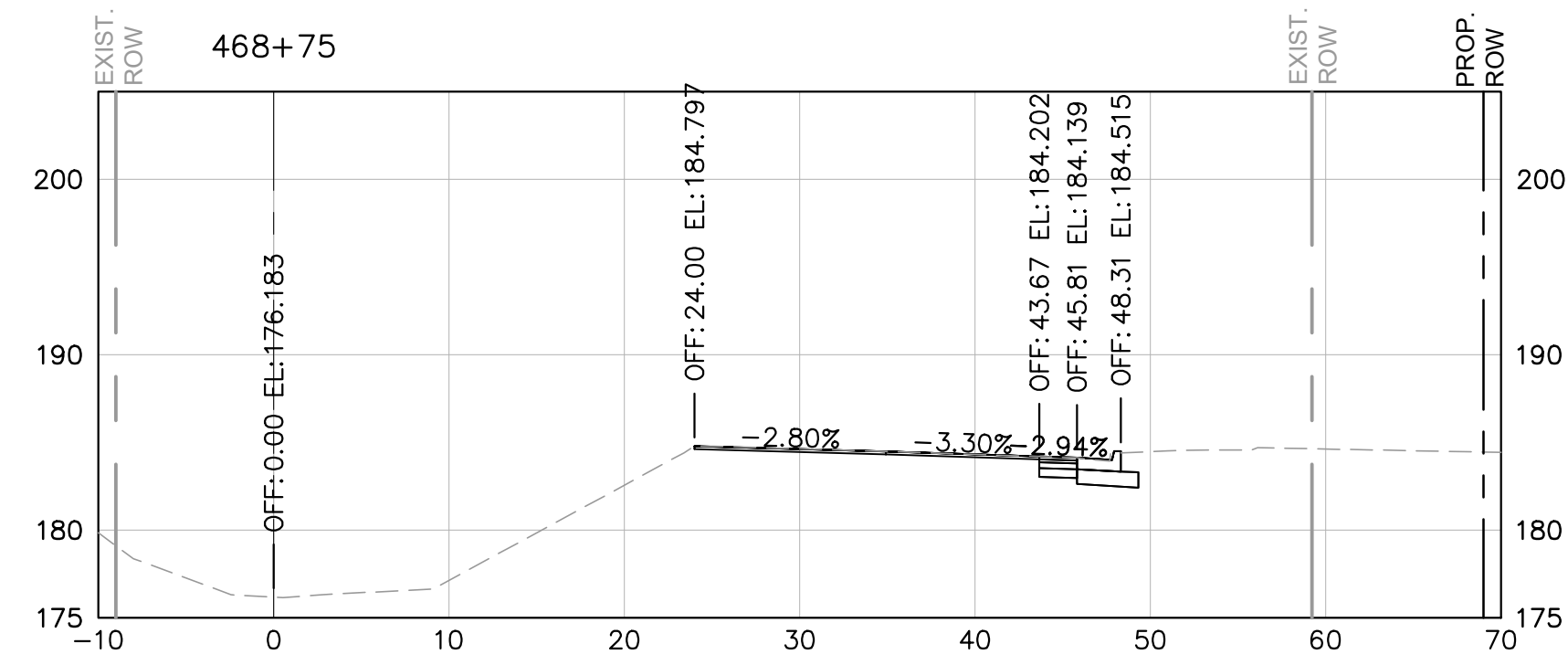
CROSS SECTIONS – N
BEAUREGARD STREET AT
FILLMORE AVENUE

SHEET
XS-22
SCALE 1" = 10'

90% DESIGN PHASE

REVISIONS	DATE	DESCRIPTION

ALEXANDRIA PROJECT NO.: 110104122
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CHECKED BY: EJD DATE: 4/5/24
APPROVED BY: _____ DATE: _____



WEST END TRANSITWAY – PHASE 1 IMPROVEMENTS

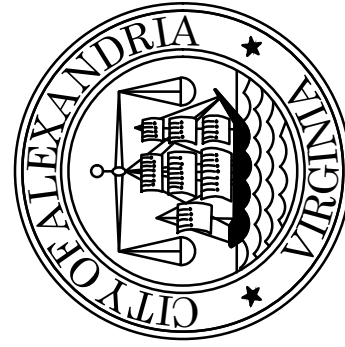
CROSS SECTIONS – N
BEAUREGARD STREET AT
FILLMORE AVENUE

SHEET
XS-23
SCALE 1" = 10'

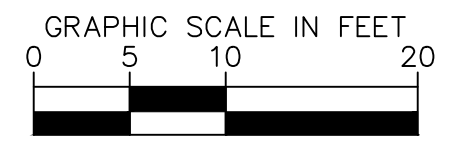
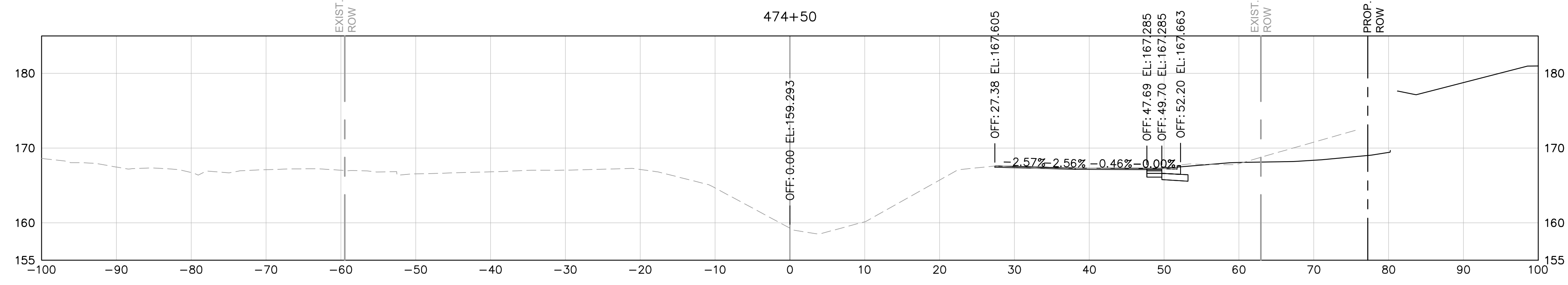
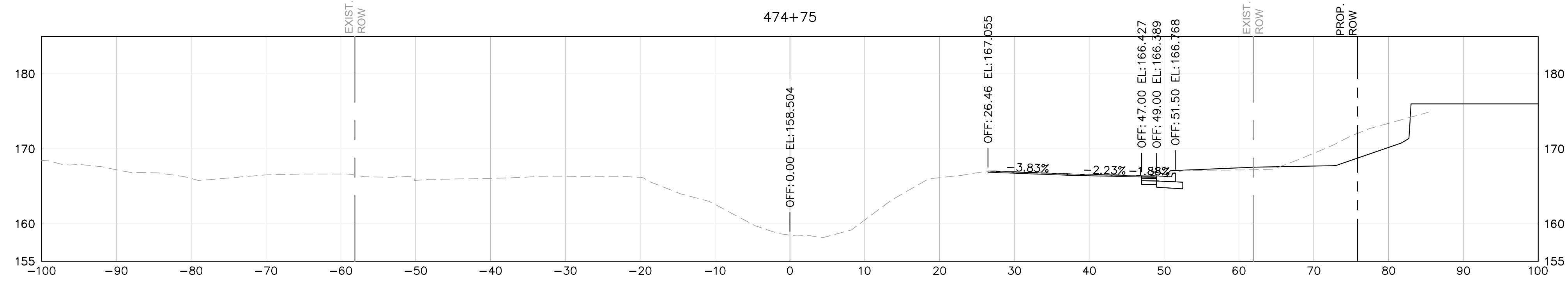
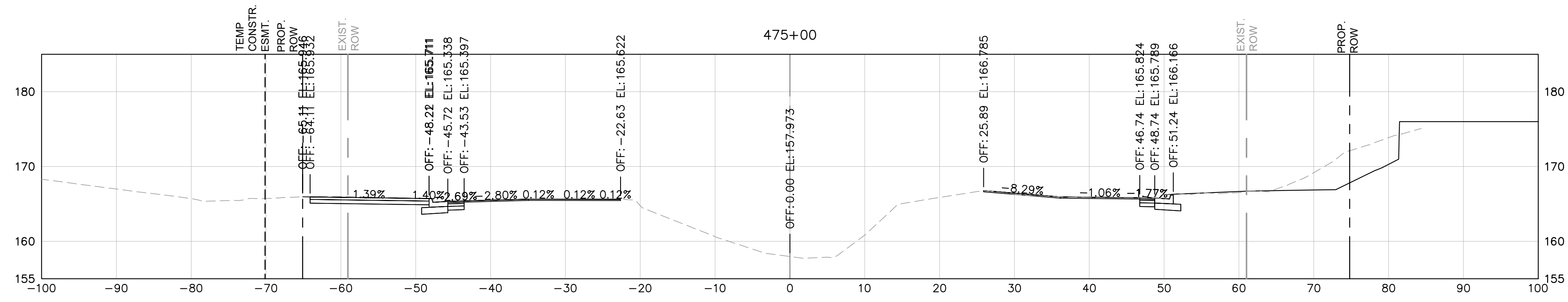
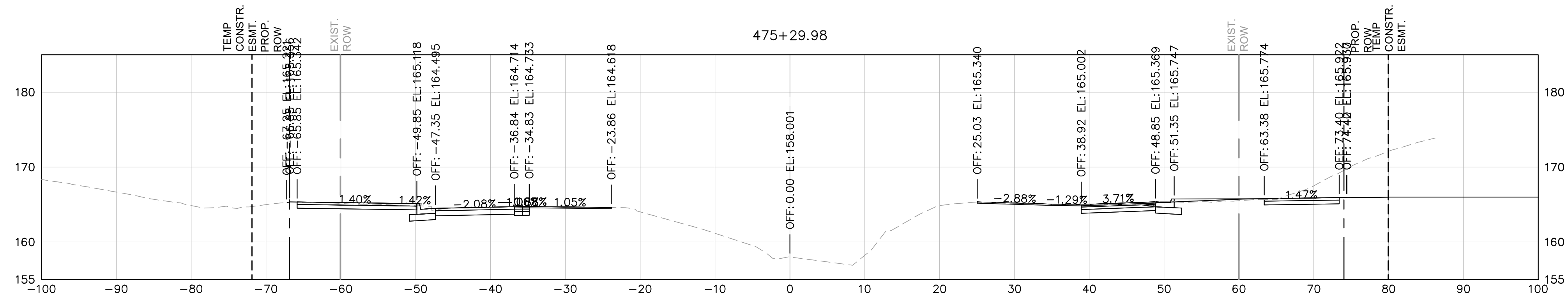
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 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: MAT. DATE: 4/5/24
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 CHECKED BY: EJD. DATE: 4/5/24
 APPROVED BY: DATE:

DATE	REVISIONS BY	DESCRIPTION

CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313



90% DESIGN PHASE



WEST END TRANSITWAY – PHASE 1 IMPROVEMENTS

90% DESIGN PHASE



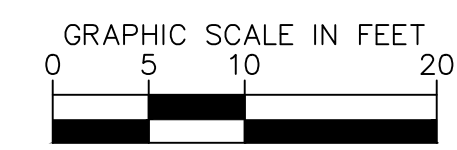
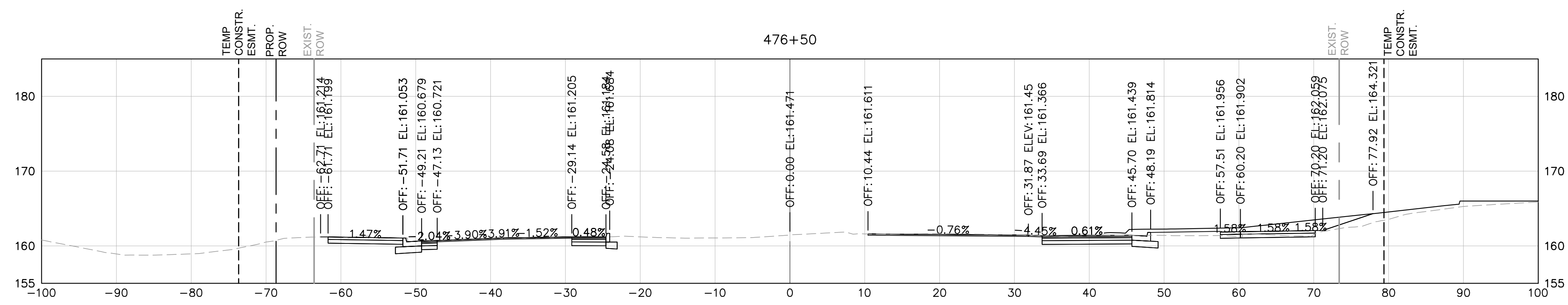
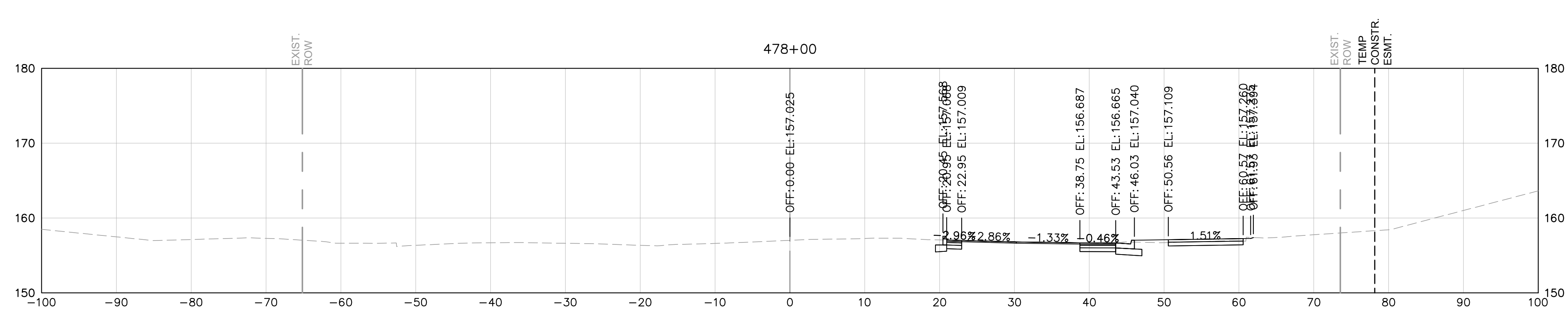
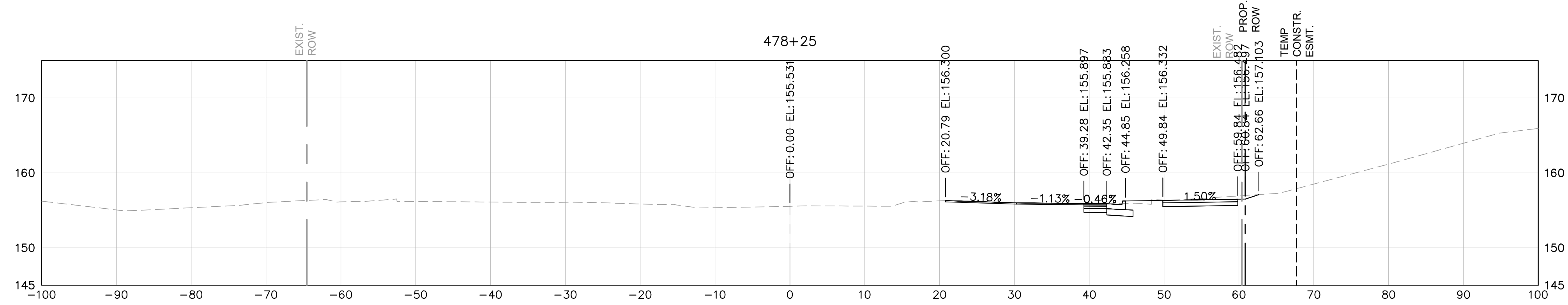
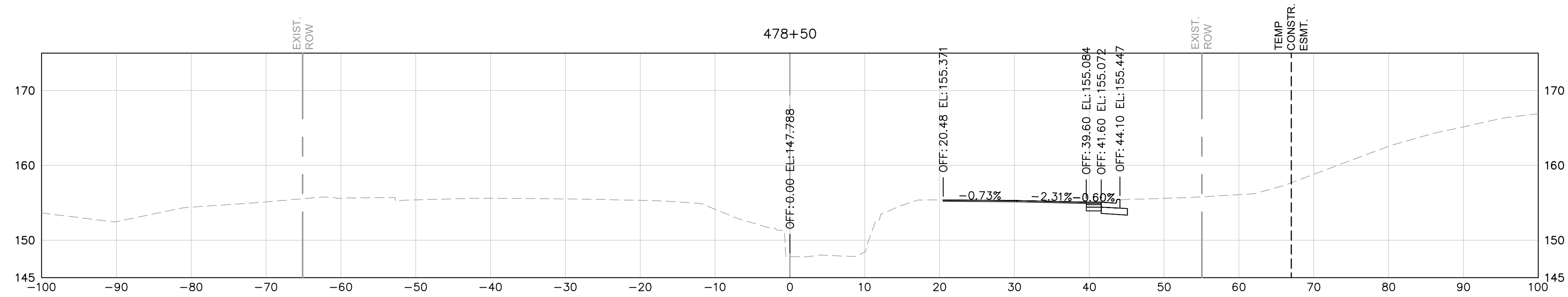
CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

REVISIONS	DESCRIPTION
DATE	BY

ALEXANDRIA PROJECT NO.:	110104122
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CONSULTANT PROJECT ID.:	N/A
DESIGNED BY:	MAT. DATE: 4/5/24
DRAWN BY:	MAT. DATE: 4/5/24
CHECKED BY:	EJD. DATE: 4/5/24
APPROVED BY:	DATE:

CROSS SECTIONS – N
 BEAUREGARD STREET AT
 BRADDOCK ROAD

SHEET
 XS-24
 SCALE 1" = 10'



WEST END TRANSITWAY – PHASE 1 IMPROVEMENTS

**CROSS SECTIONS – N
BEAUREGARD STREET AT
BRADDOCK ROAD**

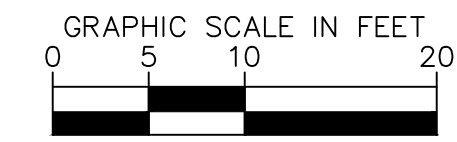
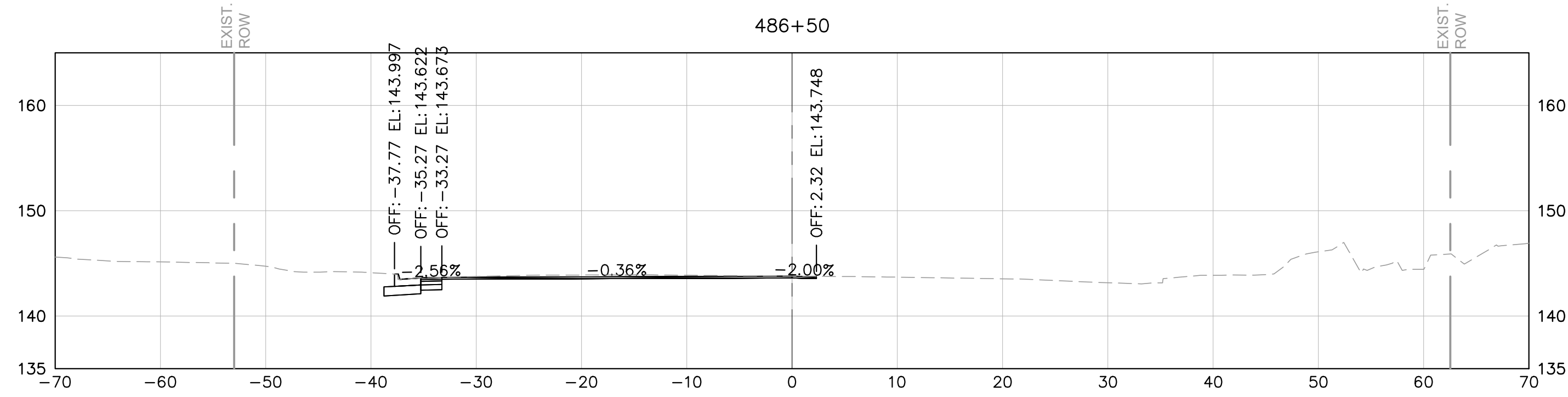
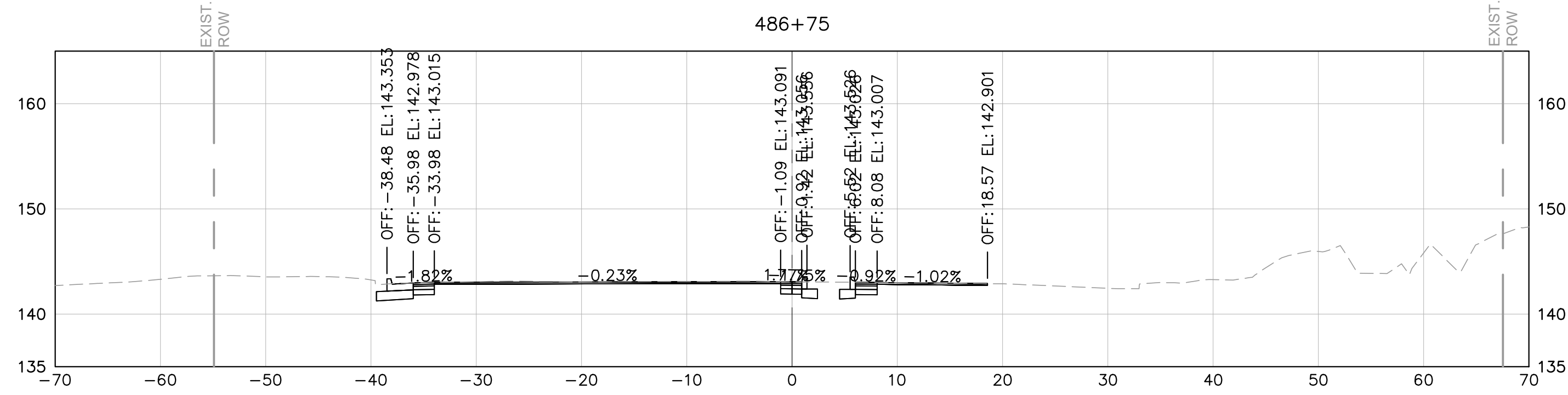
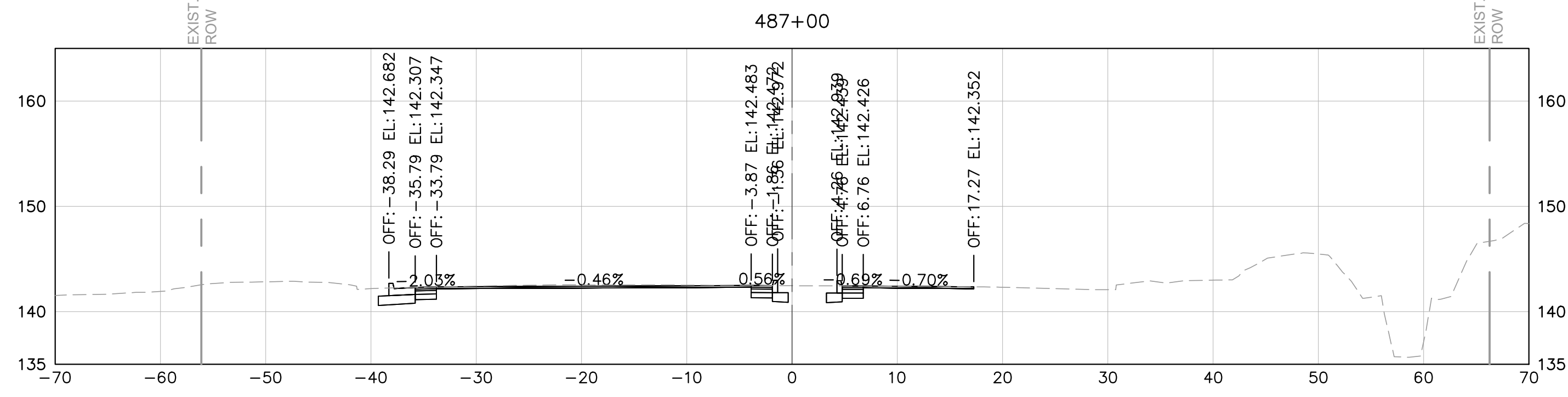
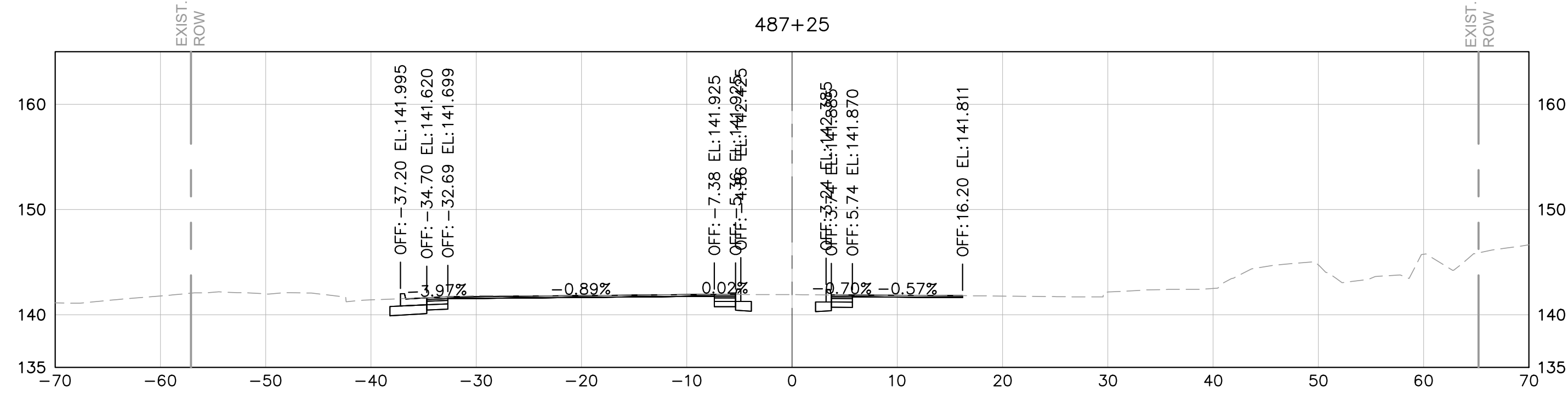
CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

ALEXANDRIA PROJECT NO.: 110104122
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CHECKED BY: EJD DATE: 4/5/24
APPROVED BY: _____ DATE: _____

REVISIONS	DESCRIPTION

SHEET
XS-26
SCALE 1" = 10'

90% DESIGN PHASE



WEST END TRANSITWAY – PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

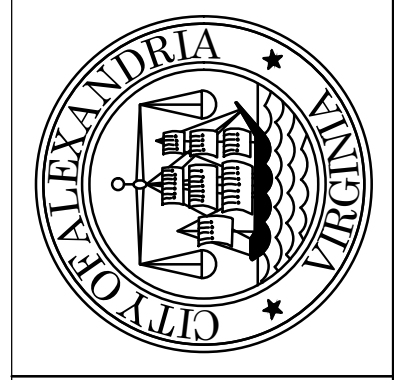
CROSS SECTIONS – N
BEAUREGARD STREET AT
KING STREET

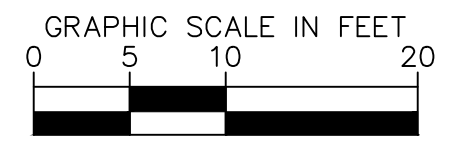
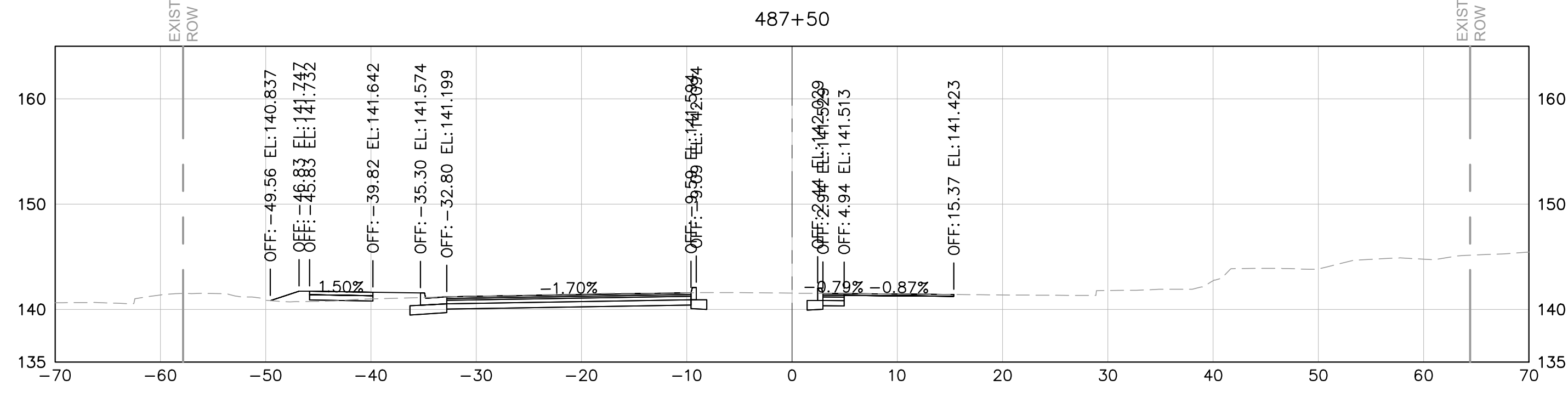
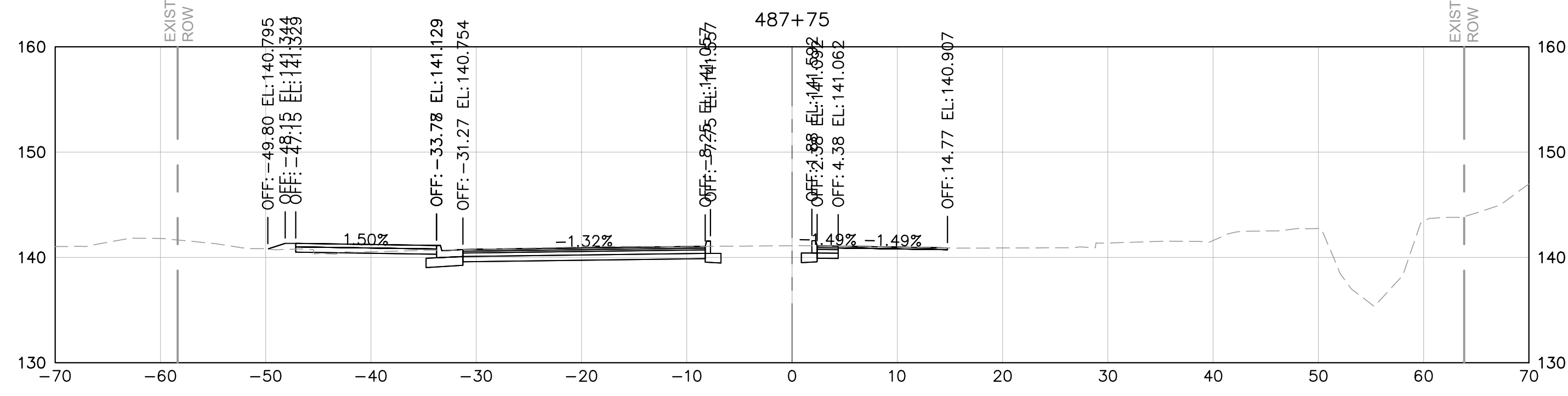
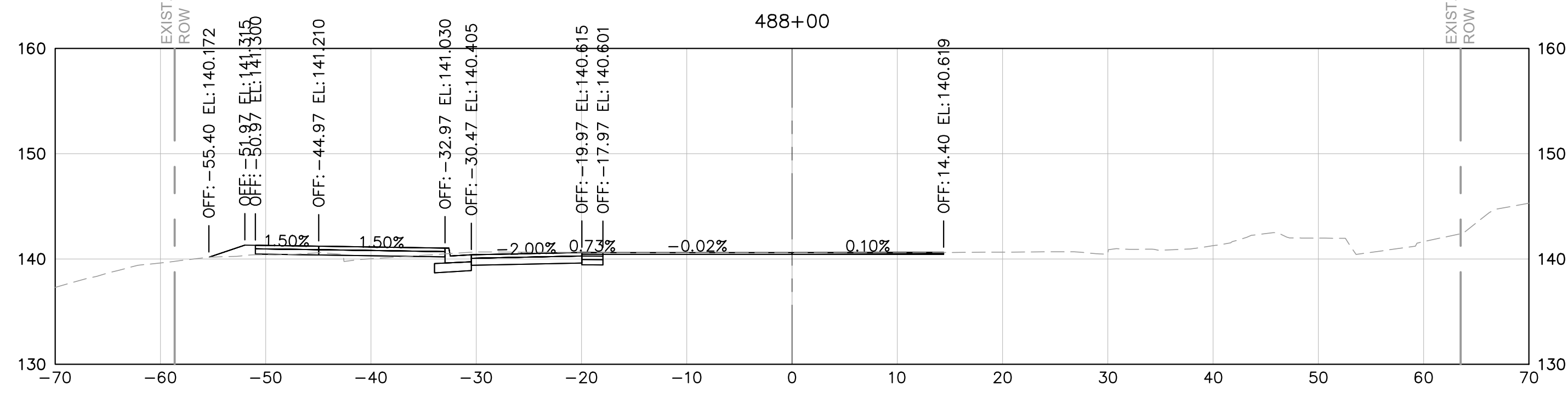
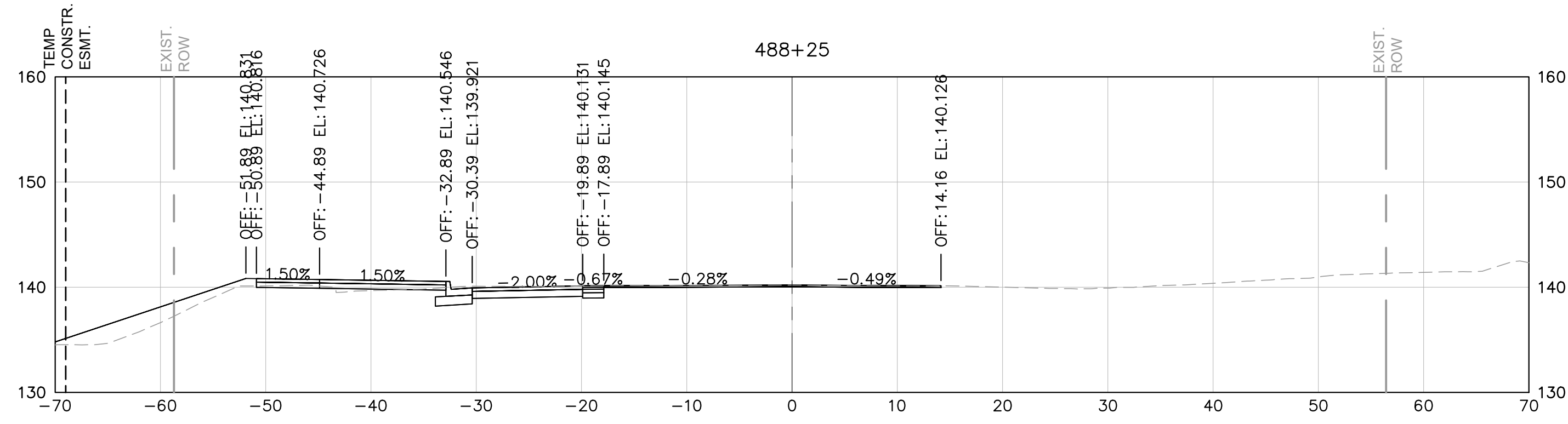
SHEET
XS-27
SCALE 1" = 10'

ALEXANDRIA PROJECT NO.:	110104122
DATE OF PLAN ISSUANCE:	N/A
CONSULTANT PROJECT ID.:	N/A
DESIGNED BY:	MAT DATE: 4/5/24
DRAWN BY:	MAT DATE: 4/5/24
CHECKED BY:	EJD DATE: 4/5/24
APPROVED BY:	DATE:

REVISIONS	DATE	BY	DESCRIPTION

CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313





WEST END TRANSITWAY – PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

CROSS SECTIONS – N
BEAUREGARD STREET AT
KING STREET

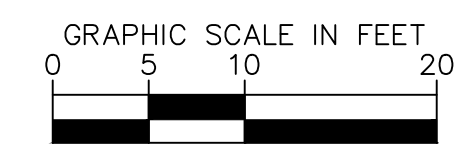
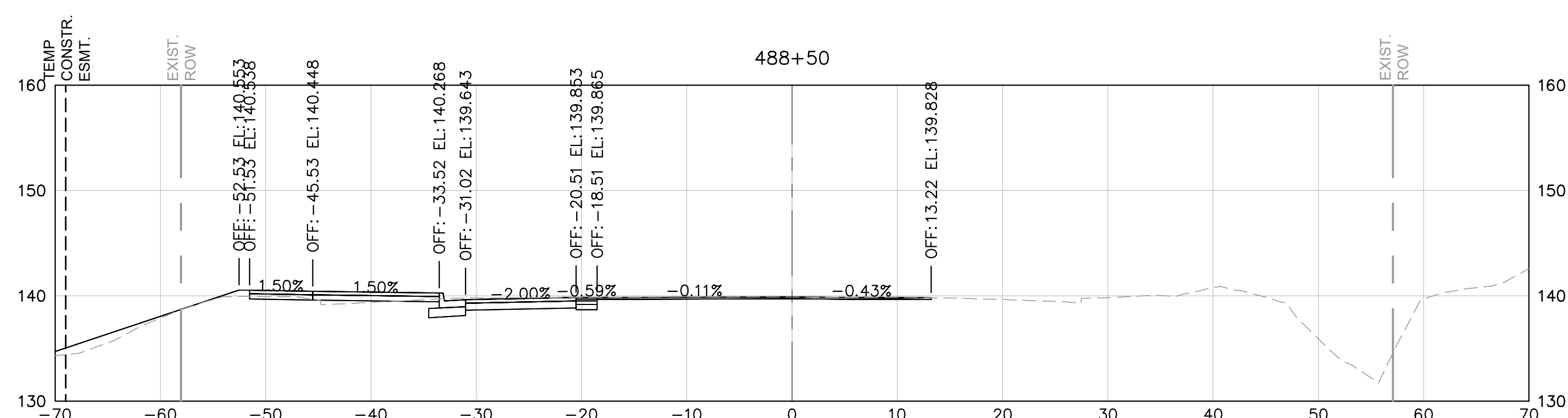
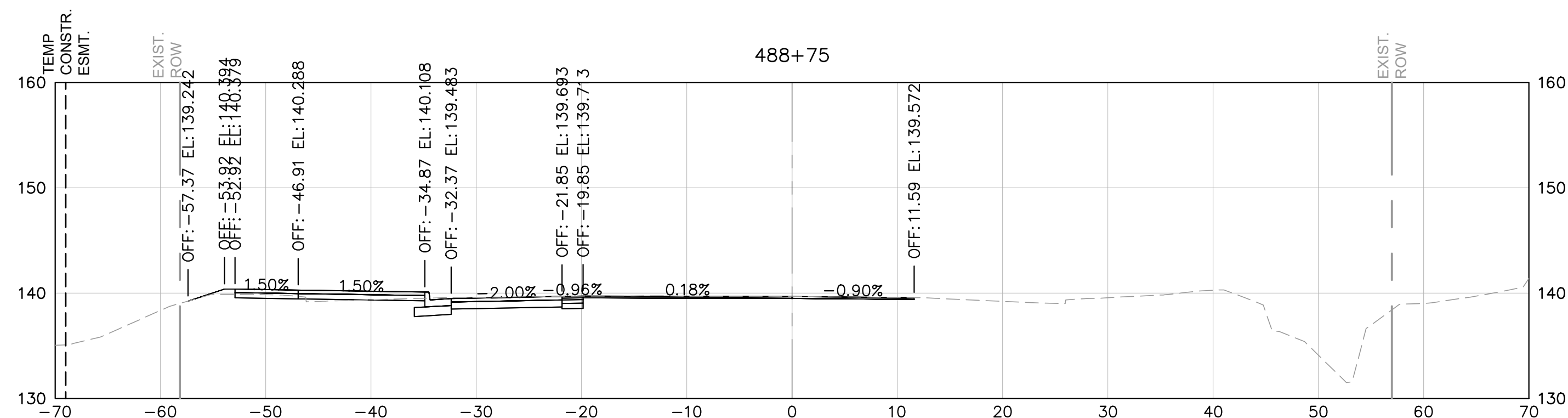
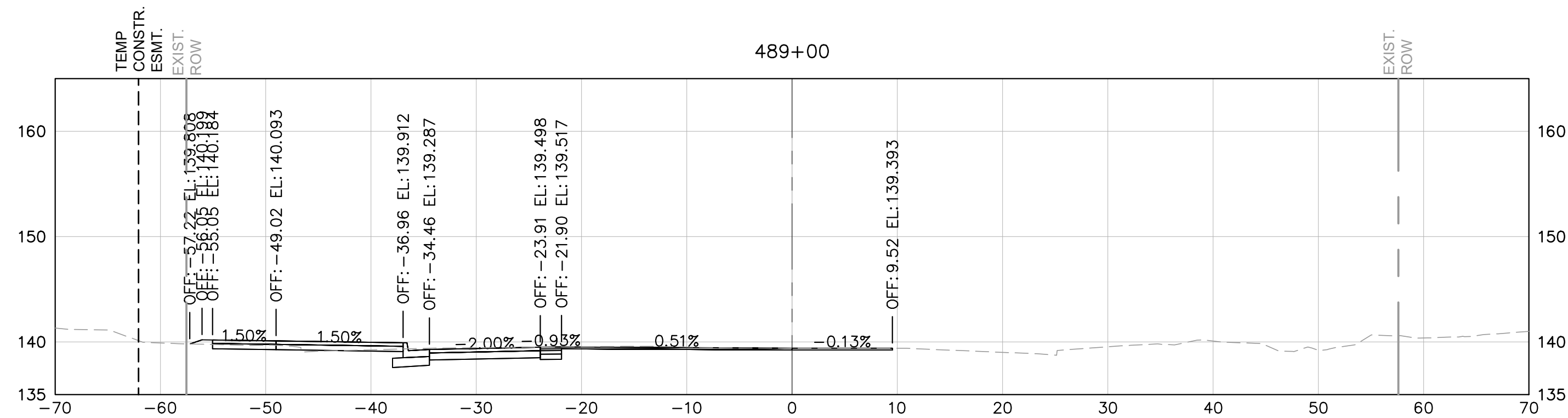
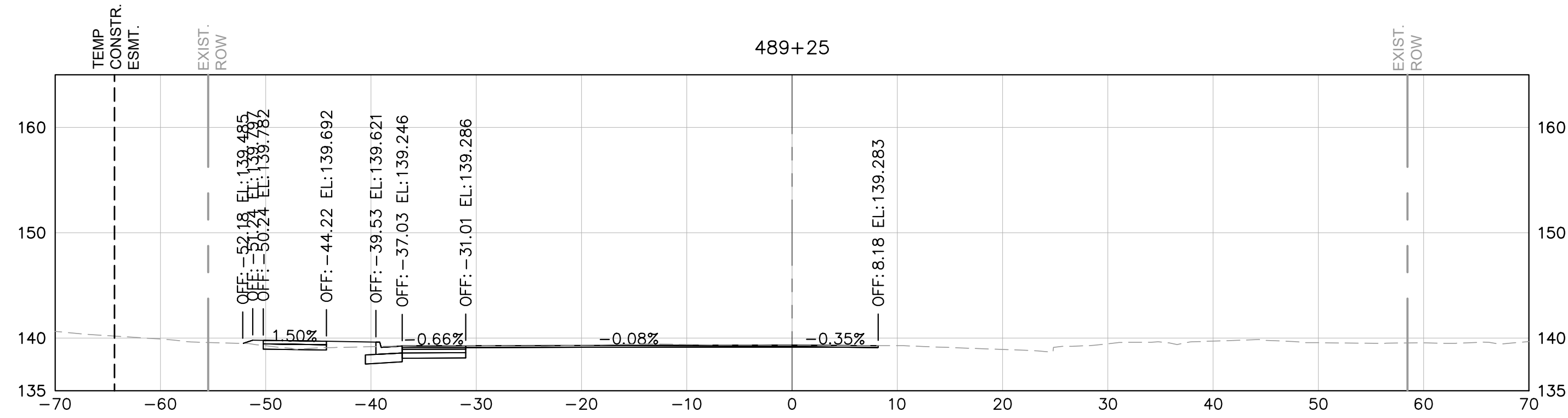
CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313



REVISIONS	DATE	BY	DESCRIPTION

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APPROVED BY: _____ DATE: _____

SHEET
XS-28
SCALE 1" = 10'



WEST END TRANSITWAY – PHASE 1 IMPROVEMENTS 90% DESIGN PHASE



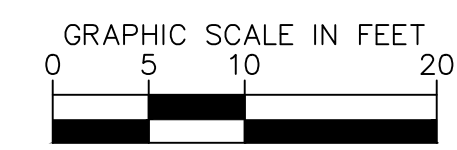
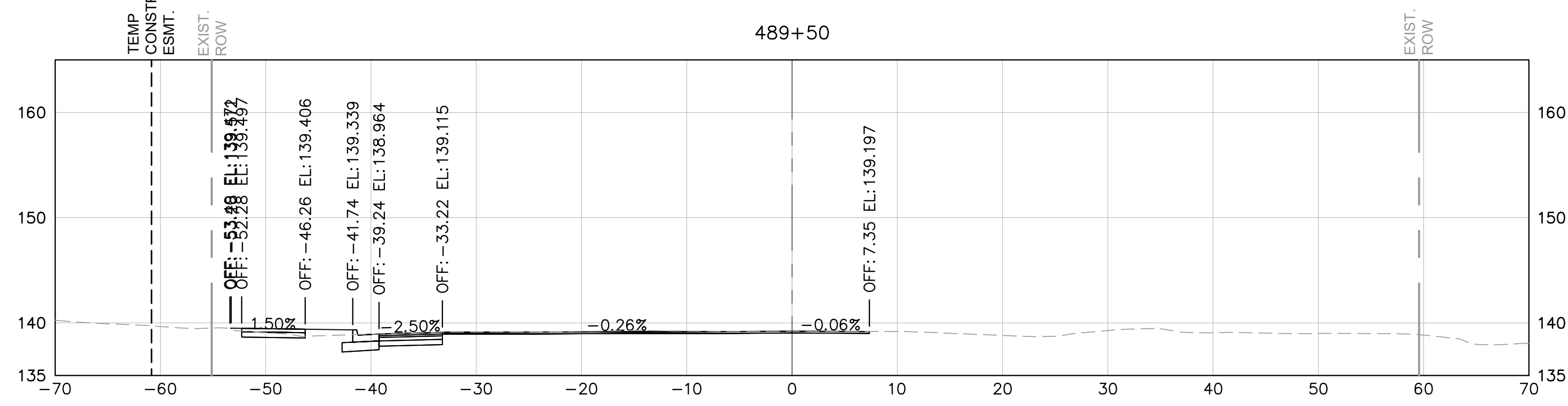
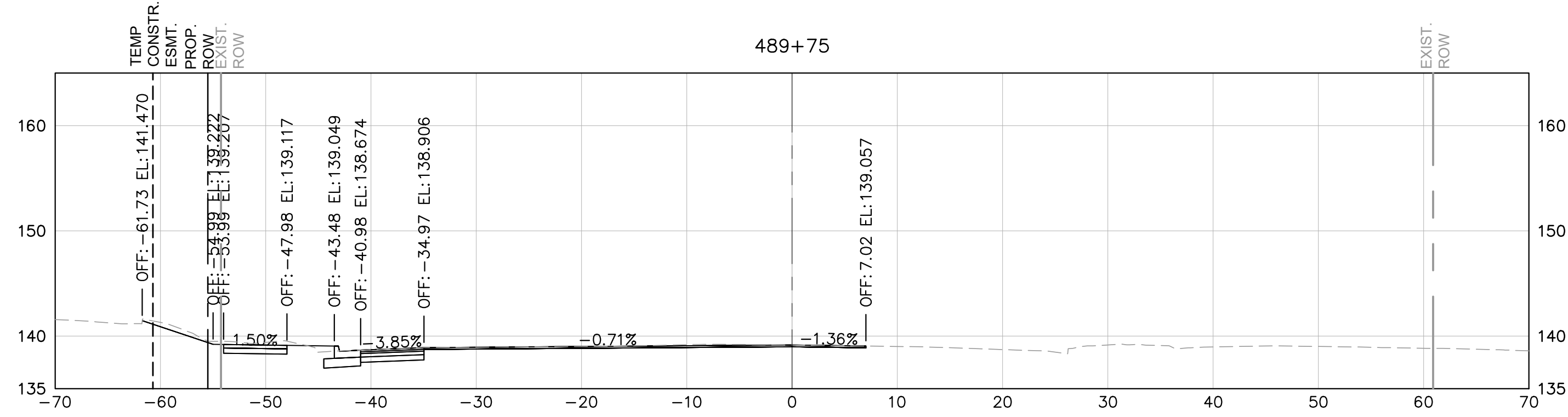
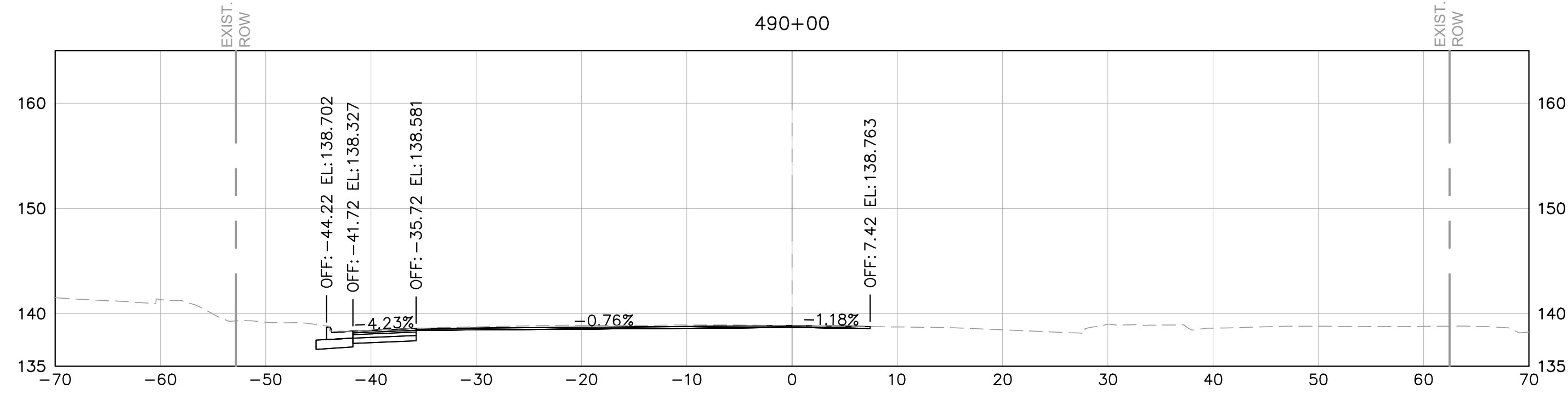
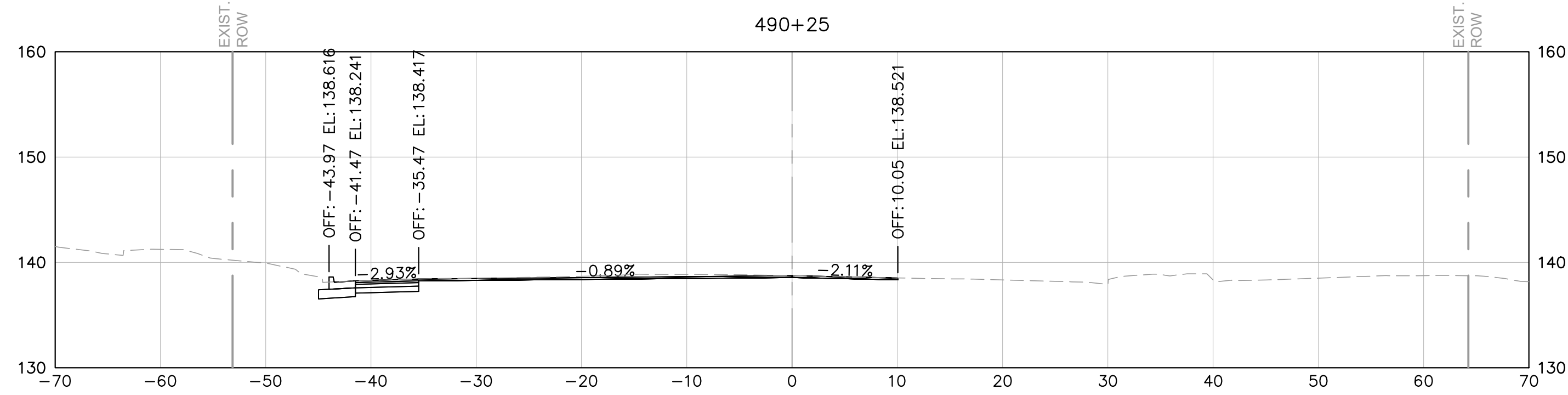
CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

REVISIONS	DATE	DESCRIPTION

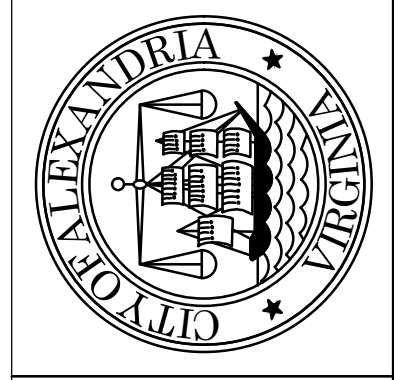
ALEXANDRIA PROJECT NO.:	110104122
DATE OF PLAN ISSUANCE:	N/A
CONSULTANT PROJECT ID.:	N/A
DESIGNED BY:	MAT DATE: 4/5/24
DRAWN BY:	MAT DATE: 4/5/24
CHECKED BY:	EJD DATE: 4/5/24
APPROVED BY:	

CROSS SECTIONS – N
BEAUREGARD STREET AT
KING STREET

SHEET
XS-29
SCALE 1" = 10'



90% DESIGN PHASE



CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

WEST END TRANSITWAY – PHASE 1 IMPROVEMENTS

CROSS SECTIONS – N
BEAUREGARD STREET AT
KING STREET

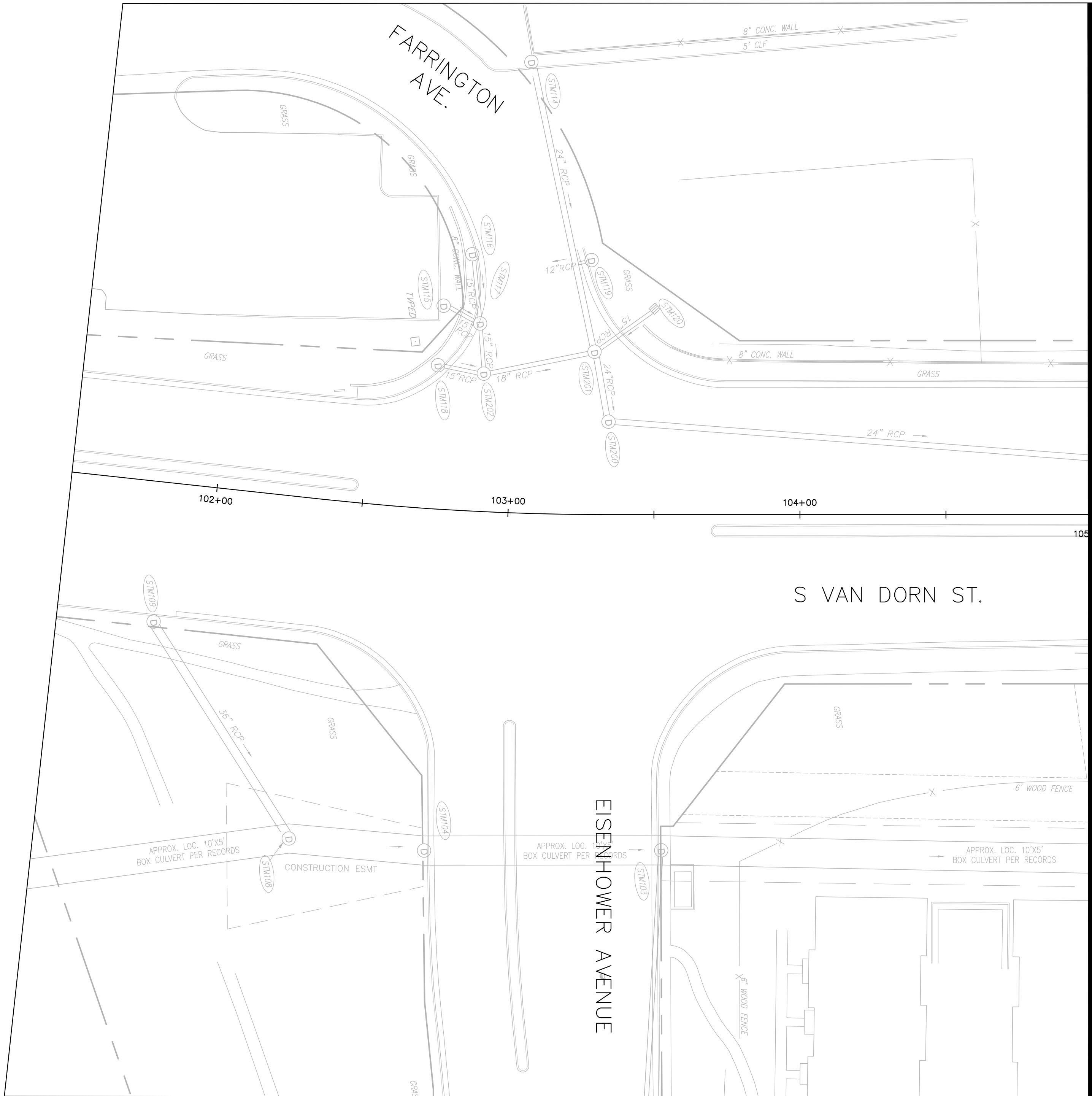
REVISIONS	DATE	BY	DESCRIPTION

ALEXANDRIA PROJECT NO.:	110104122
DATE OF PLAN ISSUANCE:	N/A
CONSULTANT PROJECT ID.:	N/A
DESIGNED BY:	MAT. DATE: 4/5/24
DRAWN BY:	MAT. DATE: 4/5/24
CHECKED BY:	EJD. DATE: 4/5/24
APPROVED BY:	DATE:

SHEET
XS-30
SCALE 1" = 10'

Plotted By: Sadr, Nasimo Sheet Set: West End Transitway - Phase 1 Layout: D-1526 PROPOSED DRAINAGE AREA MAP November 29, 2023 01:56:43pm K:\VVA_Transit\110104122_West_End_Transitway_Design\CADD\PlanSheets\PROPOSED DRAINAGE AREA MAPS.dwg

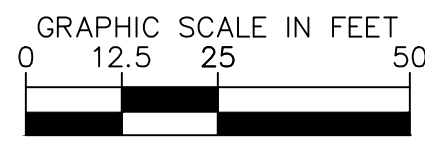
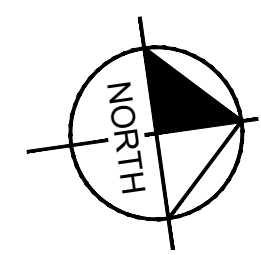
LAND DISTURBANCE MAP



MATCHLINE STA. 105+00 SEE SHEET LD-002

LEGEND

- PROPOSED IMPERVIOUS / EXISTING MANAGED TURF
- PROPOSED MANAGED TURF / EXISTING IMPERVIOUS
- LIMITS OF DISTURBANCE FOR STORMWATER MANAGEMENT



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

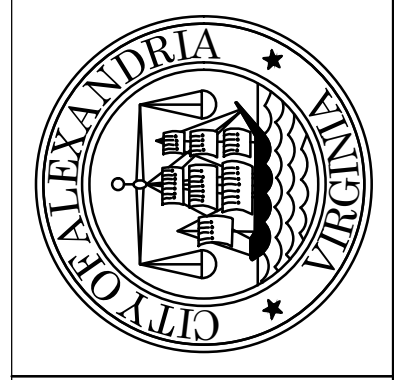
LAND DISTURBANCE MAP

SHEET
 LD-001
 SCALE 1" = 25'

ALEXANDRIA PROJECT NO.:	110104122
DATE OF PLAN ISSUANCE:	N/A
CONSULTANT PROJECT ID.:	N/A
DESIGNED BY: BA	DATE: 1/10/24
DRAWN BY: NS	DATE: 1/10/24
CHECKED BY: DD	DATE: 1/10/24
APPROVED BY:	DATE:

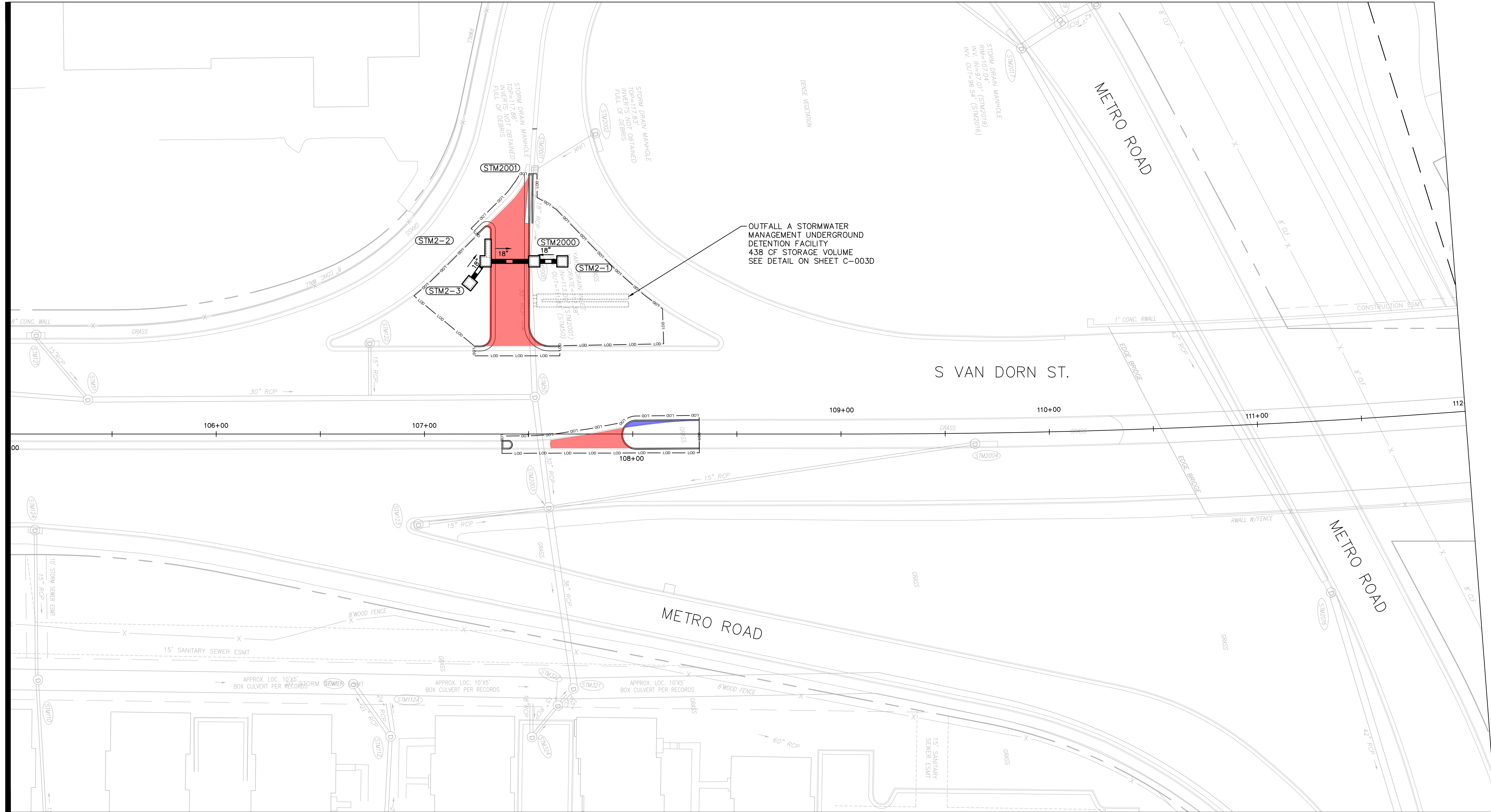
REVISIONS	DATE	BY	DESCRIPTION

CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313



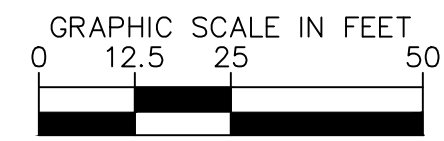
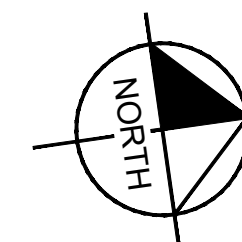
LAND DISTURBANCE MAP

MATCHLINE STA. 105+00 SEE SHEET LD-001



LEGEND

- PROPOSED IMPERVIOUS / EXISTING MANAGED TURF
- PROPOSED MANAGED TURF / EXISTING IMPERVIOUS
- LIMITS OF DISTURBANCE FOR STORMWATER MANAGEMENT



Plotted By: Sadr, Nasimo Sheet Set: West End Transitway - Phase 1 Layout: D-1526 PROPOSED DRAINAGE AREA MAP November 29, 2023 01:56:43pm K:\VVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\PROPOSED DRAINAGE AREA MAPS.dwg

WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

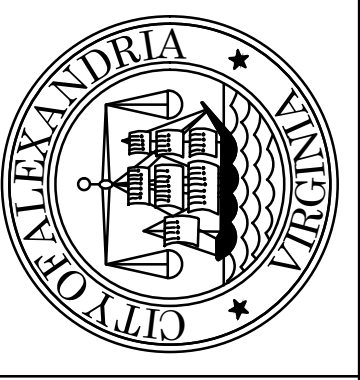
LAND DISTURBANCE MAP

SHEET
LD-002
SCALE 1" = 25'

ALEXANDRIA PROJECT NO.:	110104122
DATE OF PLAN ISSUANCE:	N/A
CONSULTANT PROJECT ID.:	N/A
DESIGNED BY:	BA DATE: 1/10/24
DRAWN BY:	NS DATE: 1/10/24
CHECKED BY:	DD DATE: 1/10/24
APPROVED BY:	DATE:

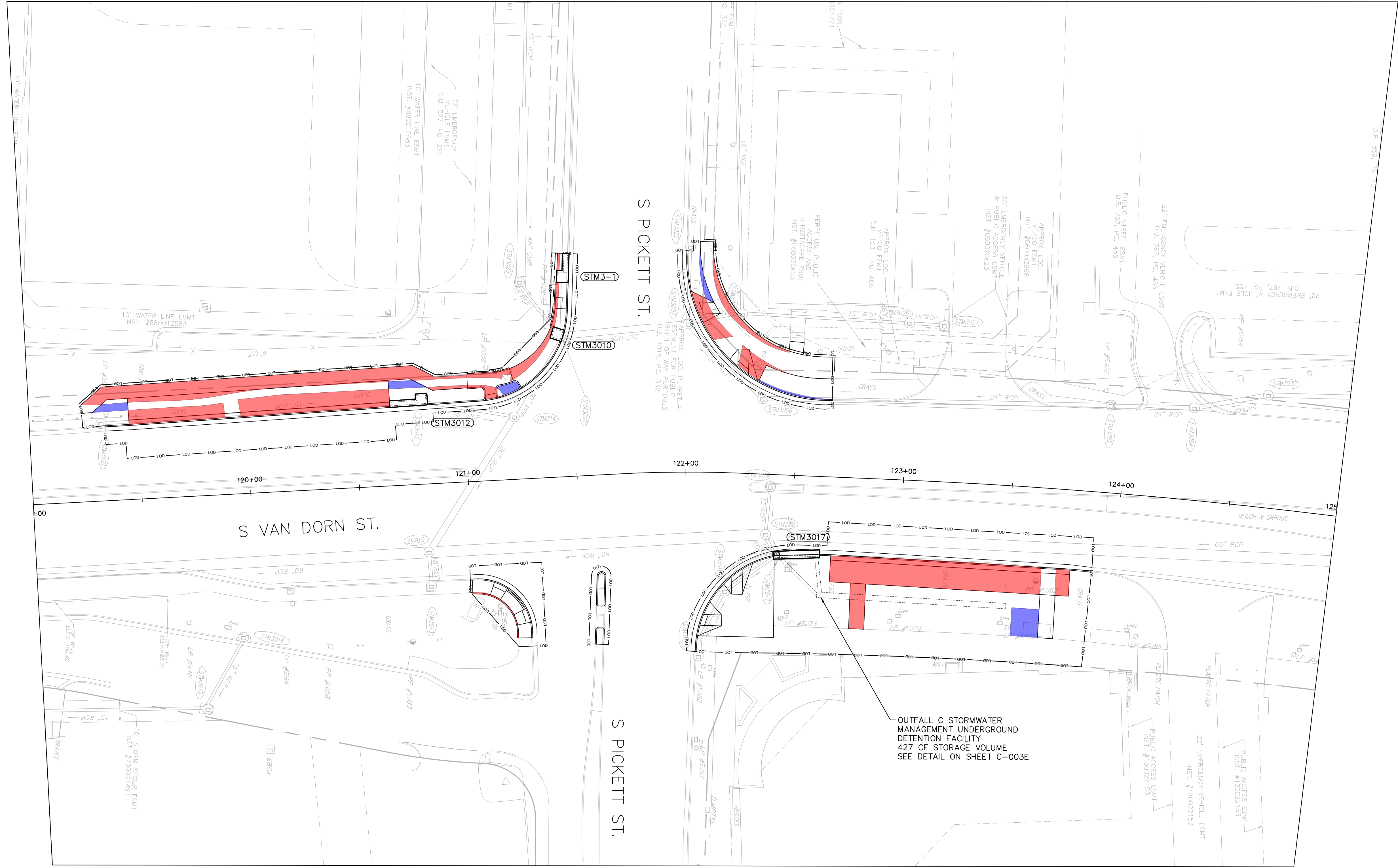
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DATE	BY

CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313



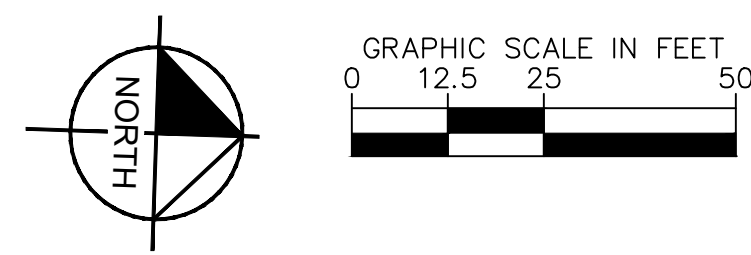
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LAND DISTURBANCE MAP



LEGEND

- PROPOSED IMPERVIOUS / EXISTING MANAGED TURF
- PROPOSED MANAGED TURF / EXISTING IMPERVIOUS
- LIMITS OF DISTURBANCE FOR STORMWATER MANAGEMENT



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

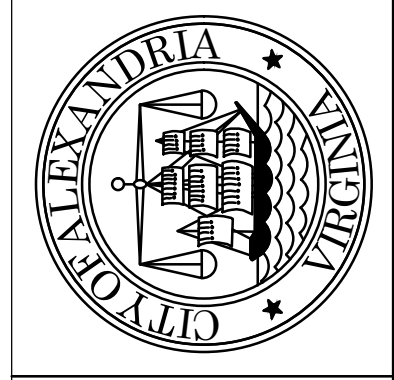
LAND DISTURBANCE MAP

SHEET
LD-003
SCALE 1" = 25'

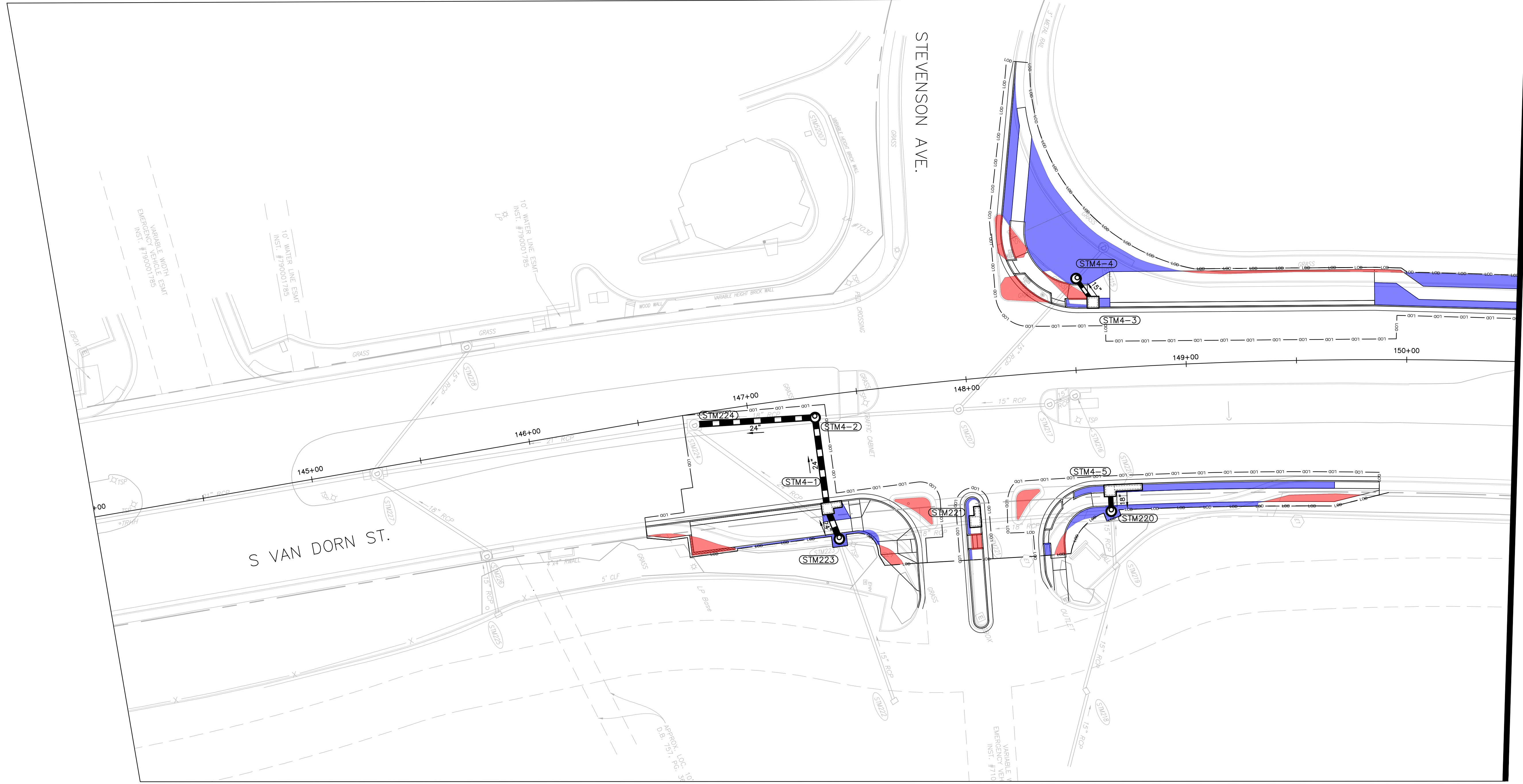
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	DRAWN BY: NS DATE: 1/10/24
	CHECKED BY: DD DATE: 1/10/24
	APPROVED BY: _____ DATE: _____

REVISIONS	DESCRIPTION
DATE	BY

CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313



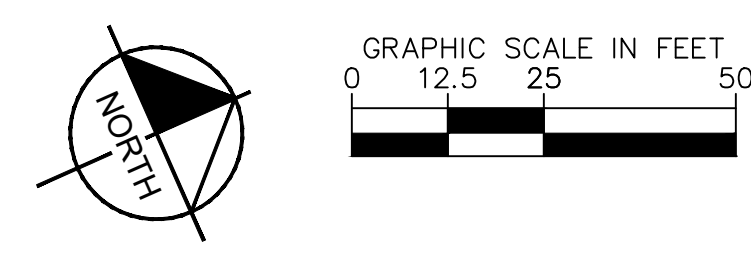
LAND DISTURBANCE MAP



MATCHLINE STA. 150+50 SEE SHEET LD-005

LEGEND

- PROPOSED IMPERVIOUS / EXISTING MANAGED TURF
- PROPOSED MANAGED TURF / EXISTING IMPERVIOUS
- LIMITS OF DISTURBANCE FOR STORMWATER MANAGEMENT



Plotted By: Sadr, Nasimo Sheet Set: West End Transitway - Phase 1 Layout: D-1526 PROPOSED DRAINAGE AREA MAP November 29, 2023 01:56:43pm K:\VVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\PROPOSED DRAINAGE AREA MAPS.dwg

WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

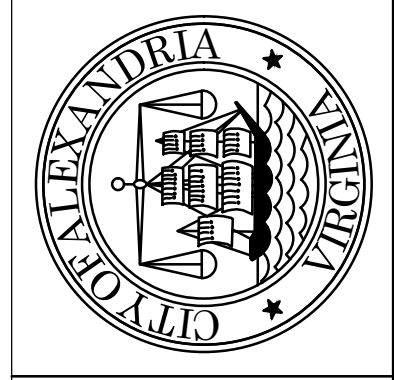
LAND DISTURBANCE MAP

SHEET
LD-004
SCALE 1" = 25'

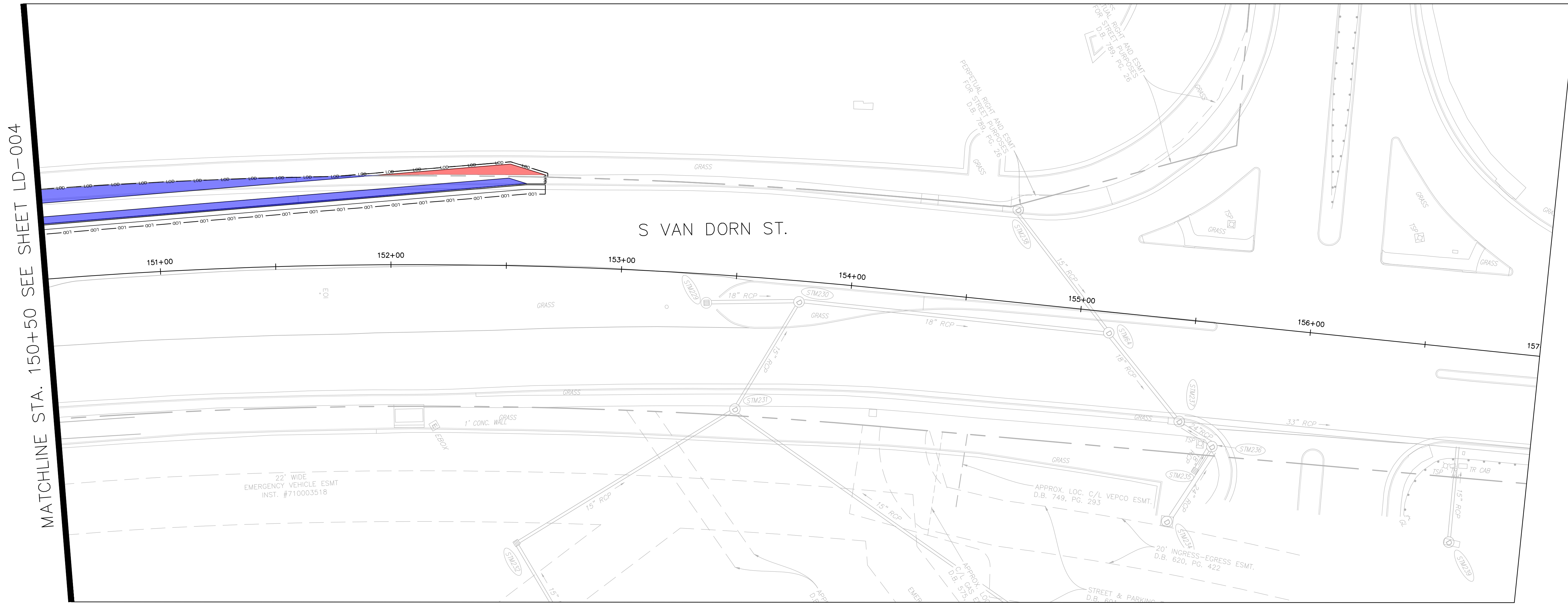
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APPROVED BY:	DATE:

REVISIONS	DATE	DESCRIPTION

CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313



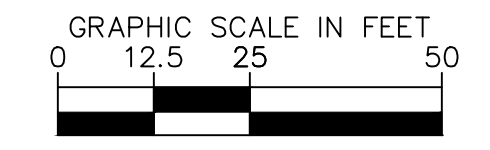
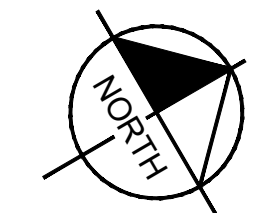
LAND DISTURBANCE MAP



MATCHLINE STA. 150+50 SEE SHEET LD-004

LEGEND

- PROPOSED IMPERVIOUS / EXISTING MANAGED TURF
- PROPOSED MANAGED TURF / EXISTING IMPERVIOUS
- LIMITS OF DISTURBANCE FOR STORMWATER MANAGEMENT



Plotted By: Sadr, Nasimo Sheet Set: West End Transitway - Phase 1 Layout: D-1526 PROPOSED DRAINAGE AREA MAP November 29, 2023 01:56:43pm K:\VVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\PROPOSED DRAINAGE AREA MAPS.dwg

WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

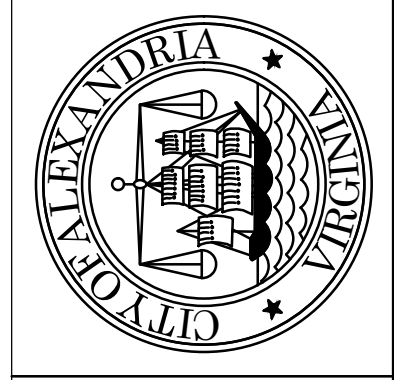
LAND DISTURBANCE MAP

SHEET
LD-005
SCALE 1" = 25'

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CONSULTANT PROJECT ID.:	N/A
DESIGNED BY:	BA DATE: 1/10/24
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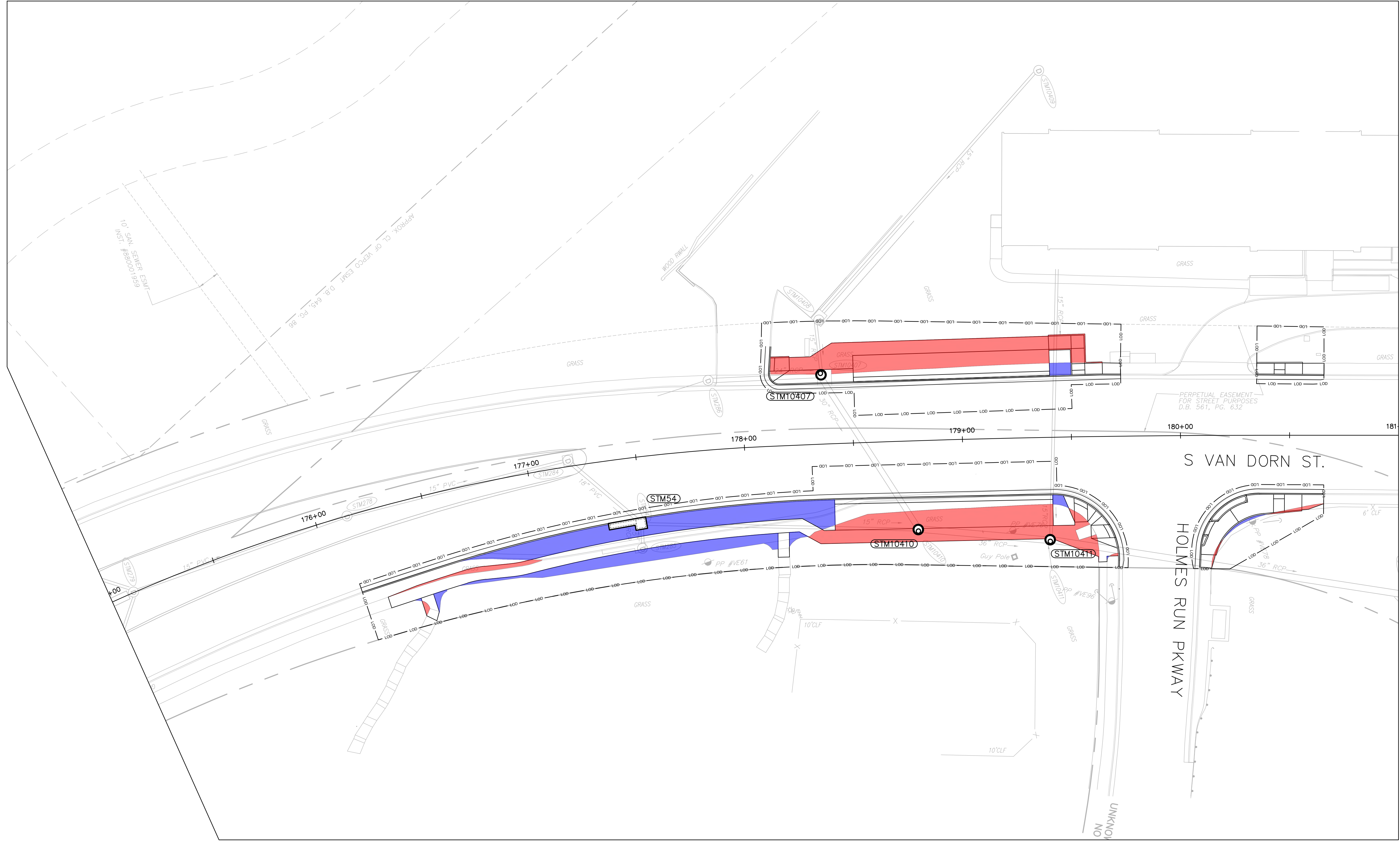
REVISIONS	DESCRIPTION
DATE	BY

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DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313



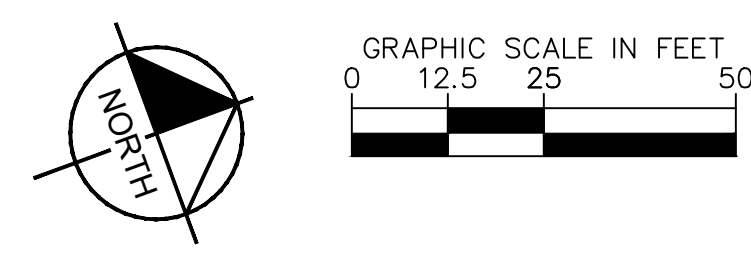
LAND DISTURBANCE MAP

Plotted By: Sadr, Nasimo Sheet Set: West End Transitway - Phase 1 Layout: D-1526 PROPOSED DRAINAGE AREA MAP November 29, 2023 01:56:43pm K:\VVA_Transit\110104122_West_End_Transitway_Design\CADD\PlanSheets\PROPOSED DRAINAGE AREA MAPS.dwg



LEGEND

- PROPOSED IMPERVIOUS / EXISTING MANAGED TURF
- PROPOSED MANAGED TURF / EXISTING IMPERVIOUS
- LIMITS OF DISTURBANCE FOR STORMWATER MANAGEMENT



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

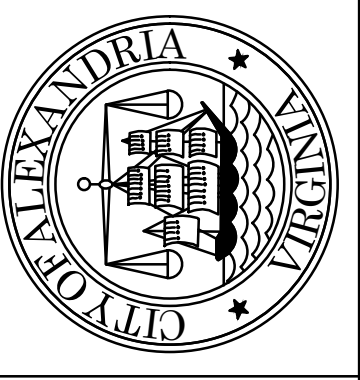
LAND DISTURBANCE MAP

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LD-006
SCALE 1" = 25'

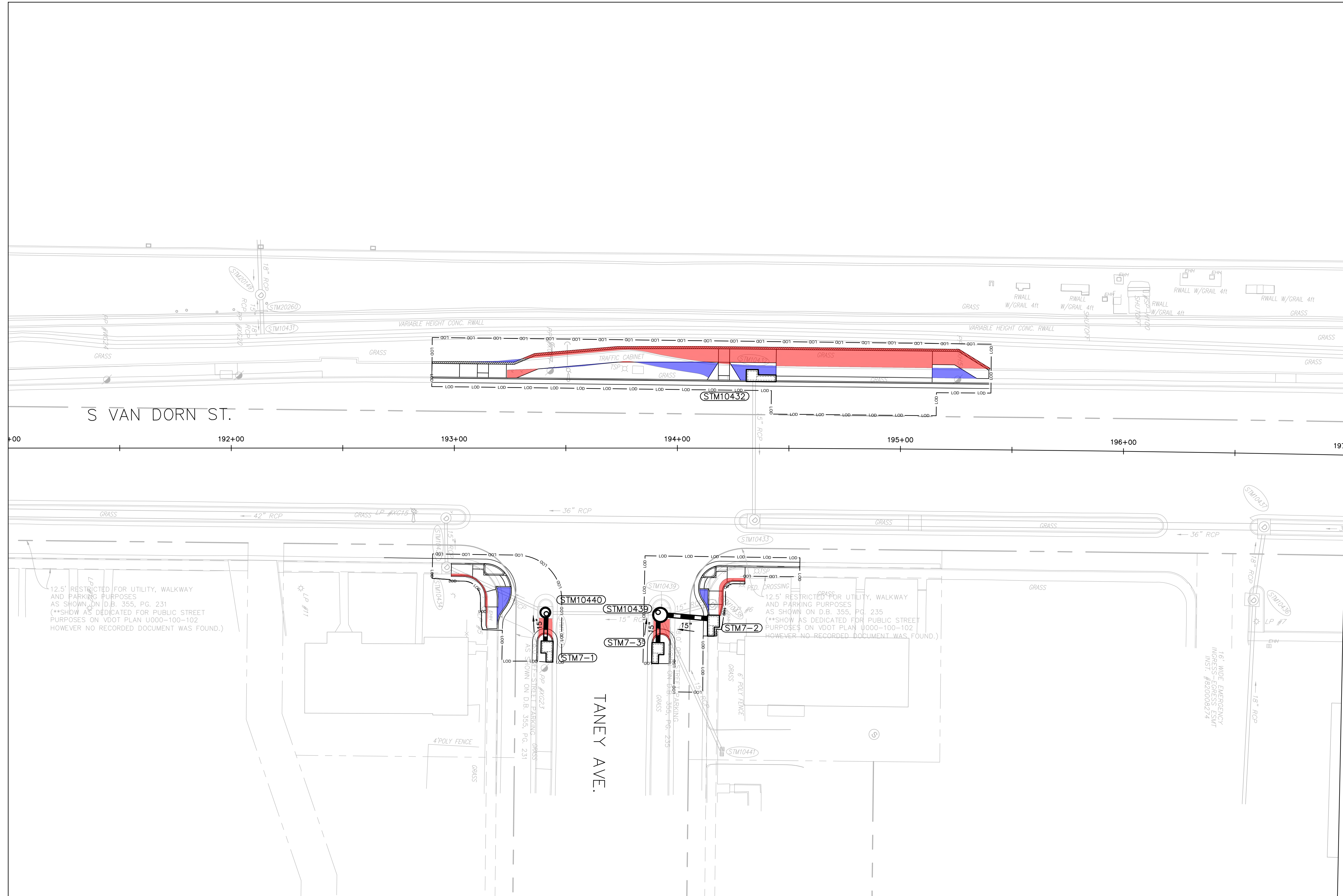
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APPROVED BY:	DATE:

REVISIONS	DESCRIPTION
DATE	BY



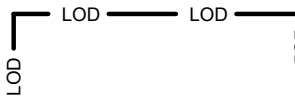
CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

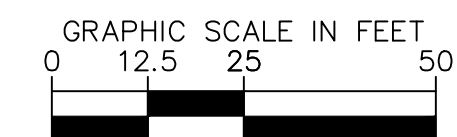
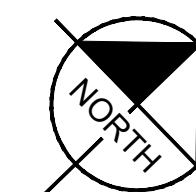


LAND DISTURBANCE MAP



LEGEND

-  PROPOSED IMPERVIOUS / EXISTING MANAGED TURF
-  PROPOSED MANAGED TURF / EXISTING IMPERVIOUS
-  LIMITS OF DISTURBANCE FOR STORMWATER MANAGEMENT



WEST END TRANSITWAY – PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

LAND DISTURBANCE MAP

CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

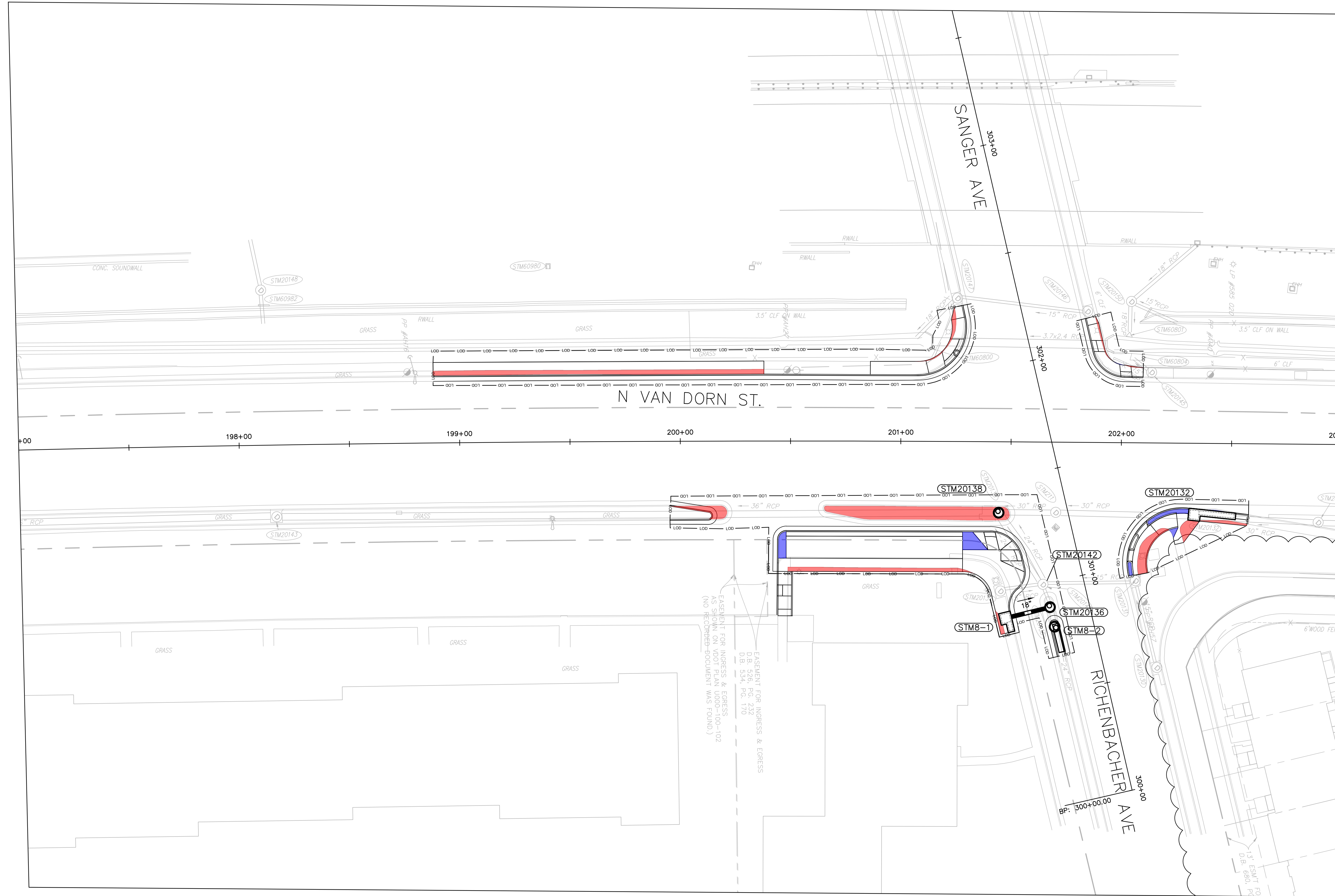
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DATE	
BY	

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DATE OF PLAN ISSUANCE: N/A	
CONSULTANT PROJECT ID: N/A	
DESIGNED BY: BA DATE: 1/10/24	
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APPROVED BY: _____ DATE: _____	

SHEET
LD-007
SCALE 1" = 25'

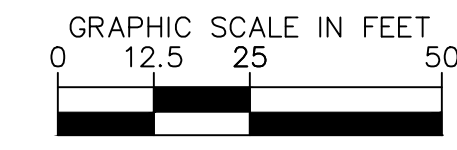
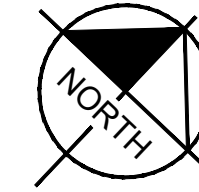


LAND DISTURBANCE MAP



LEGEND

- PROPOSED IMPERVIOUS / EXISTING MANAGED TURF
- PROPOSED MANAGED TURF / EXISTING IMPERVIOUS
- LIMITS OF DISTURBANCE FOR STORMWATER MANAGEMENT



Plotted By: Sodr, Nasimo Sheet Set: West End Transitway - Phase 1 Layout: D-1526 PROPOSED DRAINAGE AREA MAP November 29, 2023 01:56:43pm K:\NVA_Transit\110104122_West_End_Transitway_Design\CADD\PlanSheets\PROPOSED DRAINAGE AREA MAPS.dwg

WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

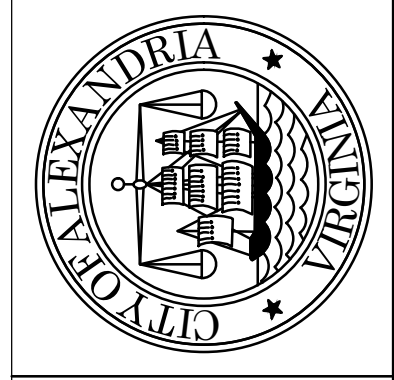
LAND DISTURBANCE MAP

SHEET
LD-008
SCALE 1" = 25'

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 CONSULTANT PROJECT ID: N/A
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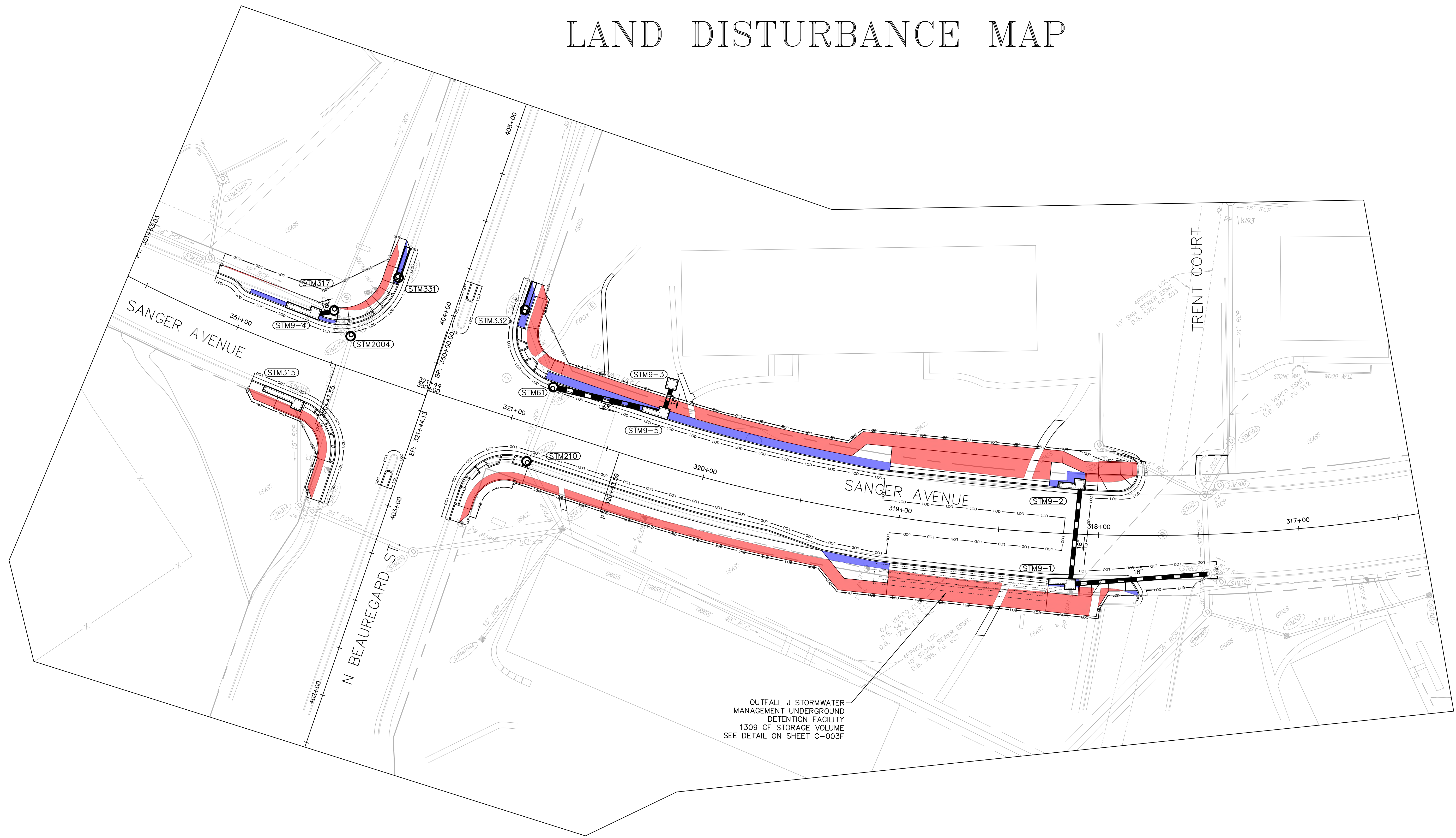
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CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313



LAND DISTURBANCE MAP

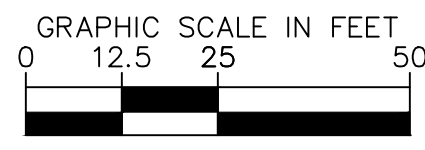
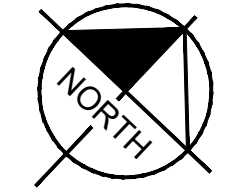
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OUTFALL J STORMWATER
MANAGEMENT UNDERGROUND
DETENTION FACILITY
1309 CF STORAGE VOLUME
SEE DETAIL ON SHEET C-003F

LEGEND

- PROPOSED IMPERVIOUS / EXISTING MANAGED TURF
- PROPOSED MANAGED TURF / EXISTING IMPERVIOUS
- LIMITS OF DISTURBANCE FOR STORMWATER MANAGEMENT



WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

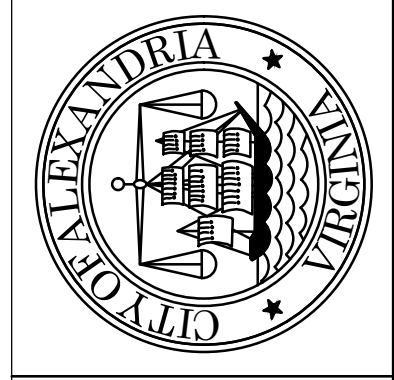
LAND DISTURBANCE MAP

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LD-009
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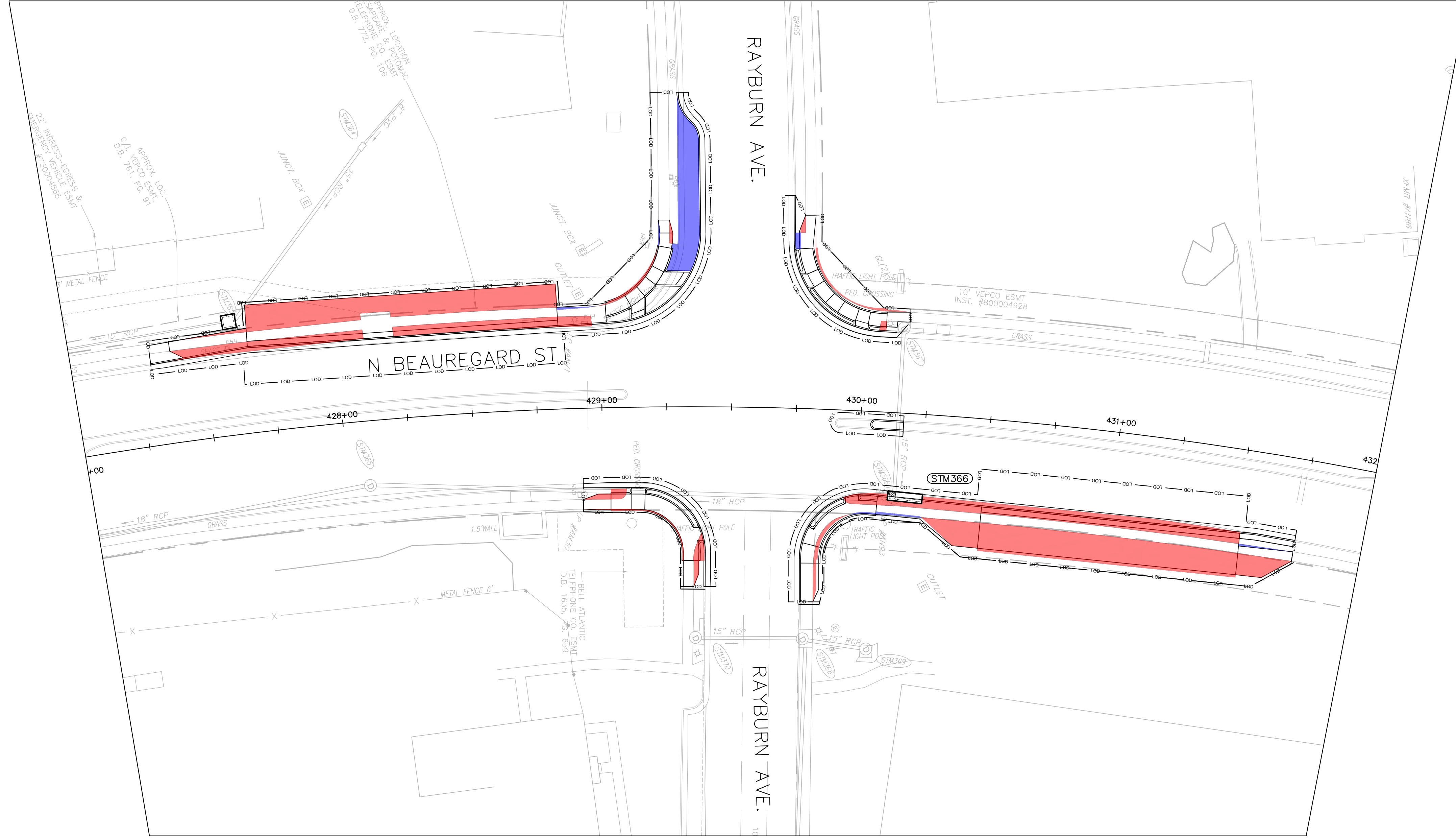
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APPROVED BY:	DATE:

REVISIONS	DESCRIPTION
DATE	BY

CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

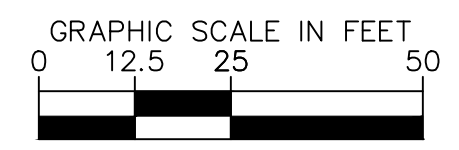
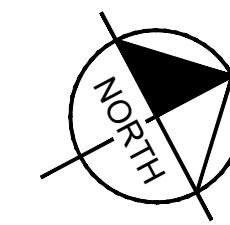


LAND DISTURBANCE MAP



LEGEND

- PROPOSED IMPERVIOUS / EXISTING MANAGED TURF
- PROPOSED MANAGED TURF / EXISTING IMPERVIOUS
- LIMITS OF DISTURBANCE FOR STORMWATER MANAGEMENT



Plotted By: Sadr, Nasimo Sheet Set: West End Transitway - Phase 1 Layout: D-1526 PROPOSED DRAINAGE AREA MAP November 29, 2023 01:58:43pm K:\NVA_Transit\110104122_West End Transitway Design\CADD\PlanSheets\PROPOSED DRAINAGE AREA MAPS.dwg

WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

LAND DISTURBANCE MAP

CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

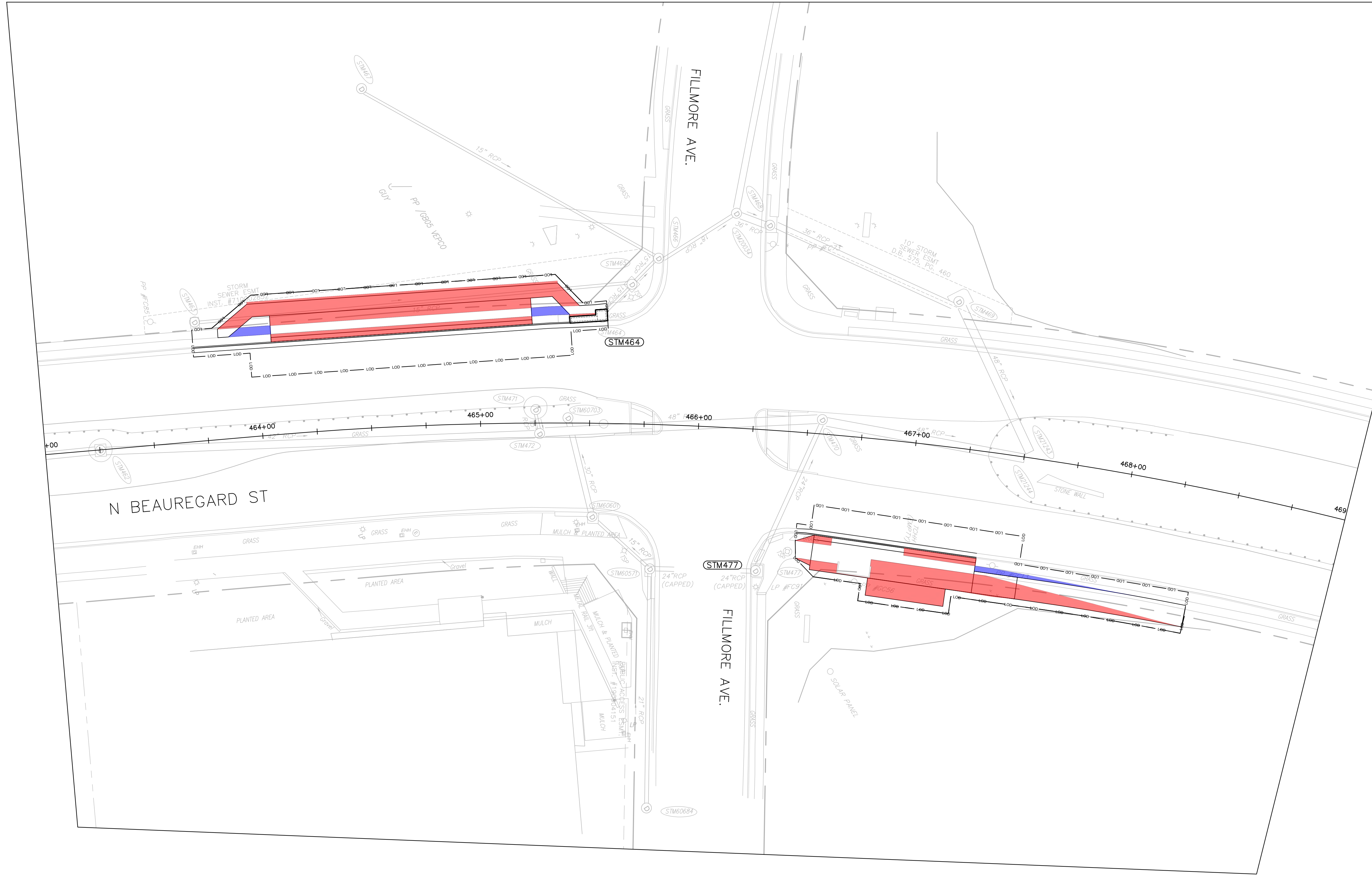
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APPROVED BY:	DATE:

REVISIONS	DATE	DESCRIPTION

SHEET
LD-011
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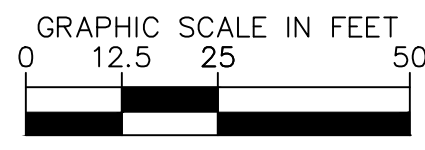
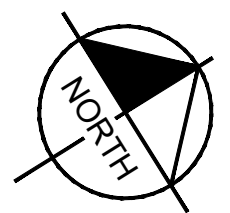


LAND DISTURBANCE MAP



LEGEND

- PROPOSED IMPERVIOUS / EXISTING MANAGED TURF
- PROPOSED MANAGED TURF / EXISTING IMPERVIOUS
- LIMITS OF DISTURBANCE FOR STORMWATER MANAGEMENT



Plotted By: Soar, Nasimo Sheet Set: West End Transitway - Phase 1 Layout: D-1526 PROPOSED DRAINAGE AREA MAP November 29, 2023 01:56:43pm K:\VVA_Transit\110104122_West_End_Transitway_Design\CADD\PlanSheets\PROPOSED DRAINAGE AREA MAPS.dwg

WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

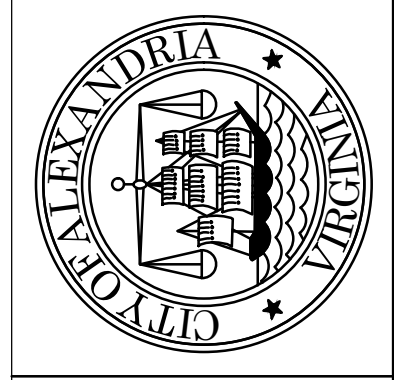
LAND DISTURBANCE MAP

SHEET
LD-012
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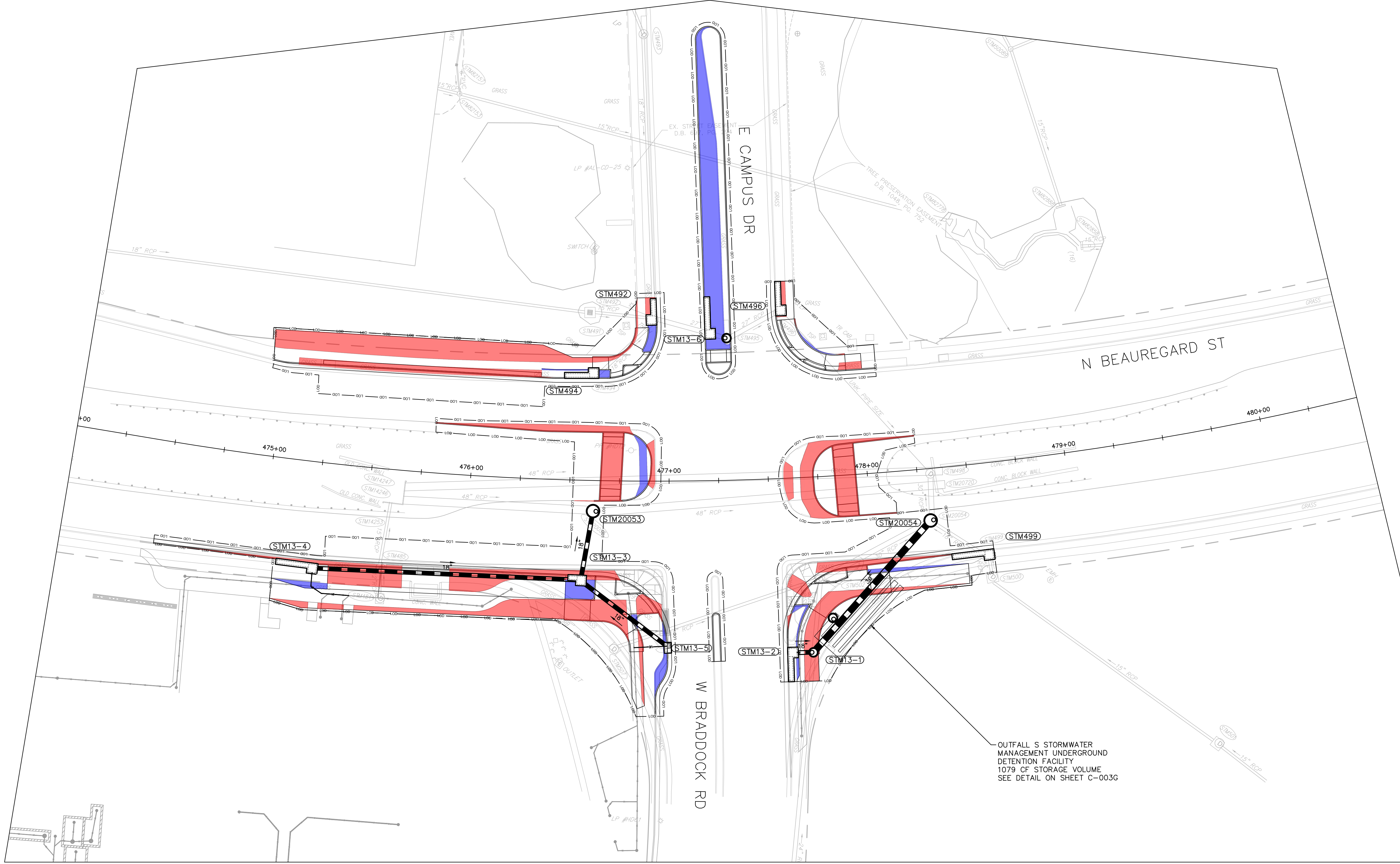
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DRAWN BY: NS DATE: 1/10/24
CHECKED BY: DD DATE: 1/10/24
APPROVED BY: _____ DATE: _____

REVISIONS	DESCRIPTION
DATE	BY

CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313



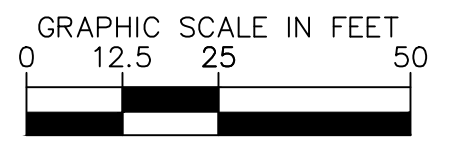
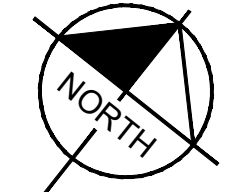
LAND DISTURBANCE MAP



LEGEND

- PROPOSED IMPERVIOUS / EXISTING MANAGED TURF
- PROPOSED MANAGED TURF / EXISTING IMPERVIOUS
- LIMITS OF DISTURBANCE FOR STORMWATER MANAGEMENT

OUTFALL S STORMWATER
MANAGEMENT UNDERGROUND
DETENTION FACILITY
1079 CF STORAGE VOLUME
SEE DETAIL ON SHEET C-003G



Plotted By: Sadr, Nesima Sheet Set: West End Transitway - Phase 1 Layout: D-1526 PROPOSED DRAINAGE AREA MAP November 29, 2023 01:58:43pm K:\VVA_Transit\110104122_West_End_Transitway_Design\CADD\PlanSheets\PROPOSED DRAINAGE AREA MAPS.dwg

WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

LAND DISTURBANCE MAP

CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

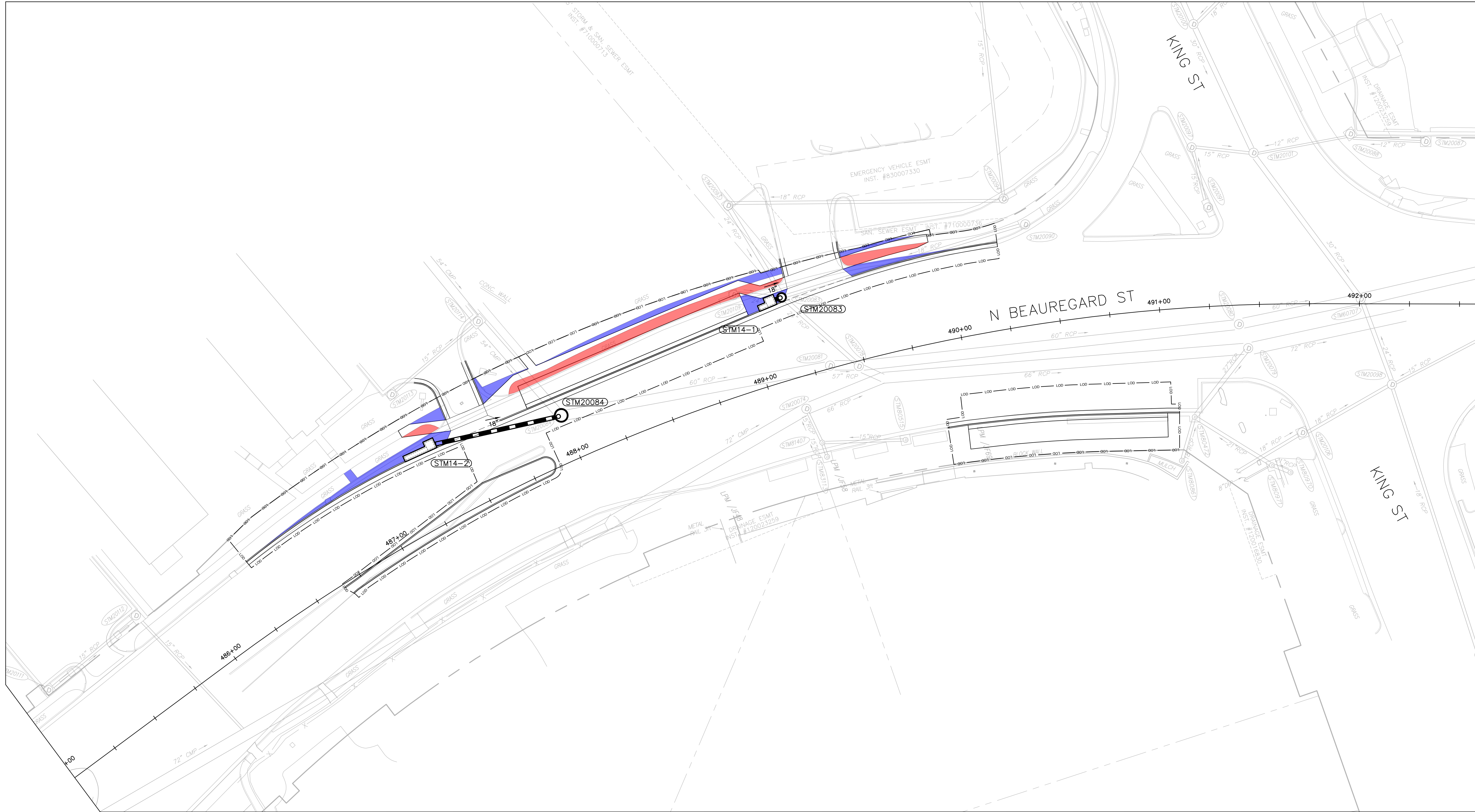
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APPROVED BY:	

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LD-013
SCALE 1" = 25'

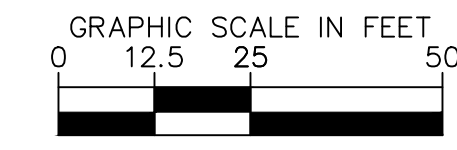
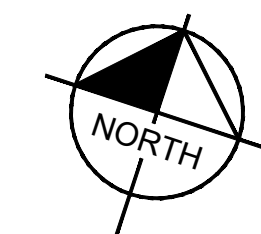


LAND DISTURBANCE MAP



LEGEND

- PROPOSED IMPERVIOUS / EXISTING MANAGED TURF
- PROPOSED MANAGED TURF / EXISTING IMPERVIOUS
- LIMITS OF DISTURBANCE FOR STORMWATER MANAGEMENT



Plotted By: Sadr, Nesima Sheet Set: West End Transitway - Phase 1 Layout: D-1526 PROPOSED DRAINAGE AREA MAP November 29, 2023 01:56:43pm K:\NVA_Transit\110104122_West_End_Transitway_Design\CADD\PlanSheets\PROPOSED DRAINAGE AREA MAPS.dwg

WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

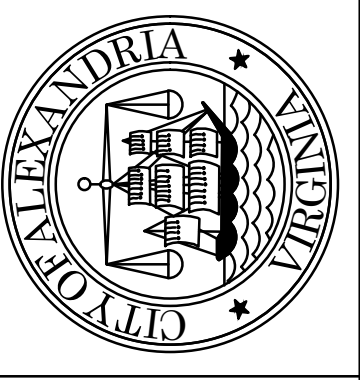
LAND DISTURBANCE MAP

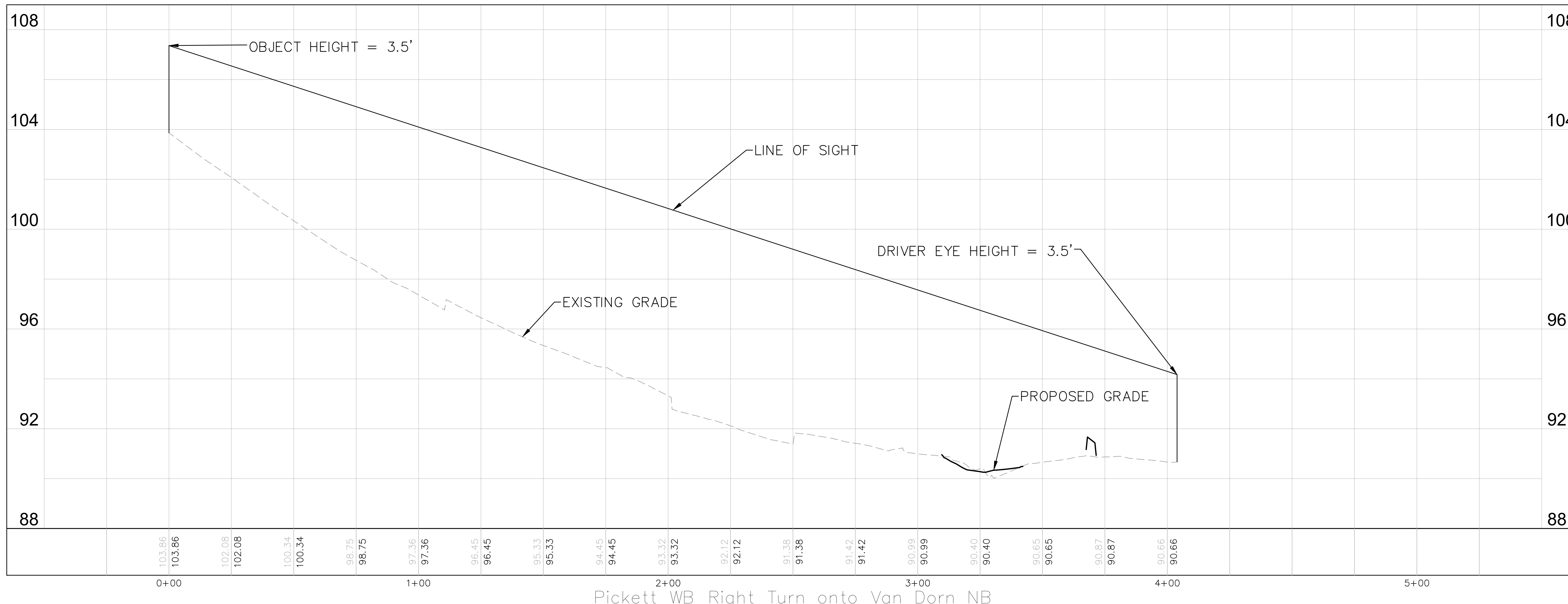
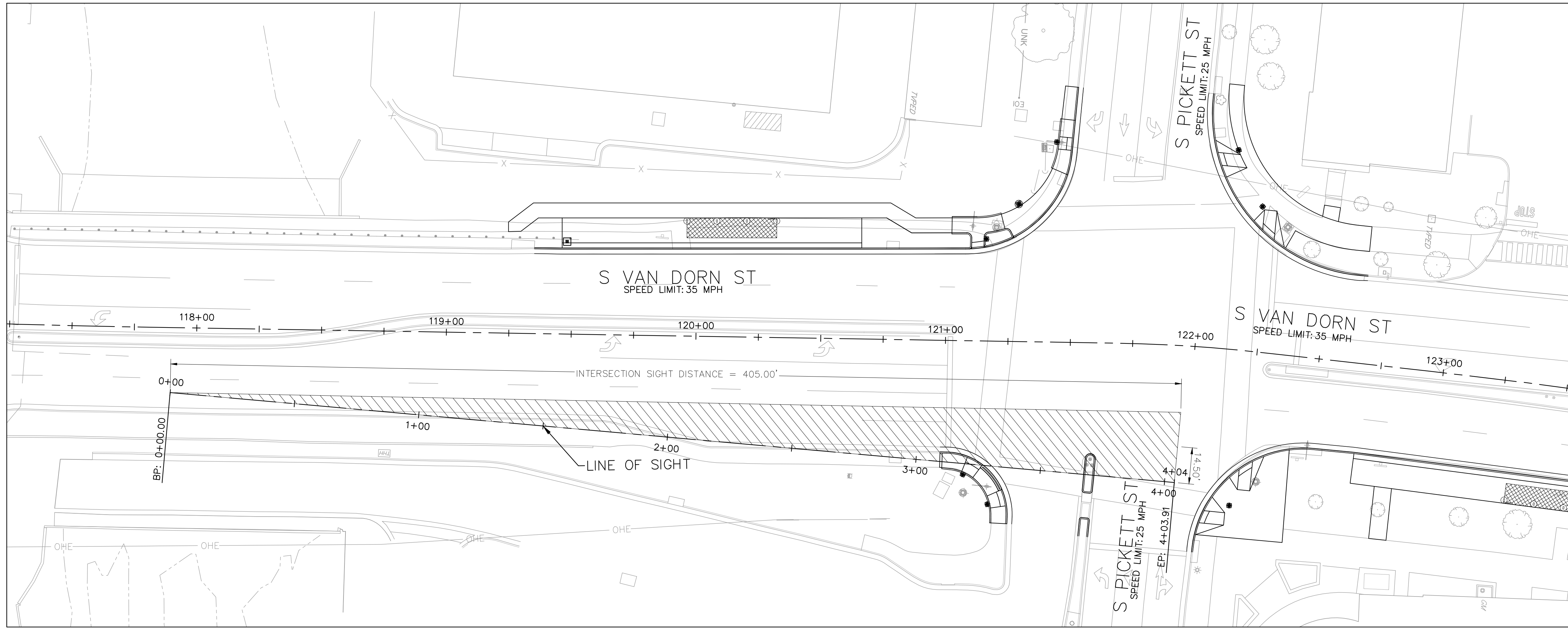
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LD-014
SCALE 1" = 25'

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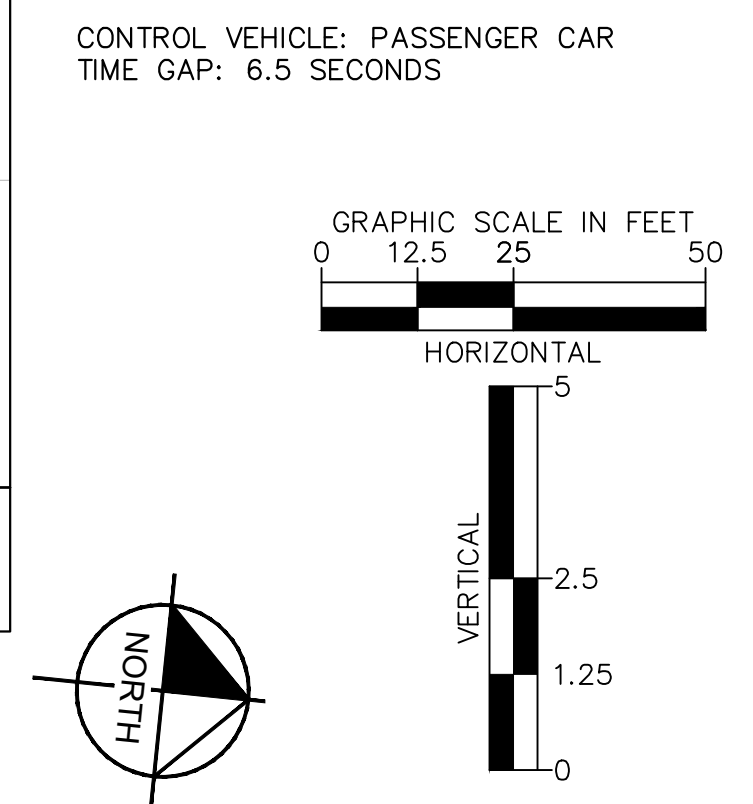
REVISIONS	DESCRIPTION
DATE	
BY	

CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313





Pickett WB Right Turn onto Van Dorn NB



WEST END TRANSITWAY – PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

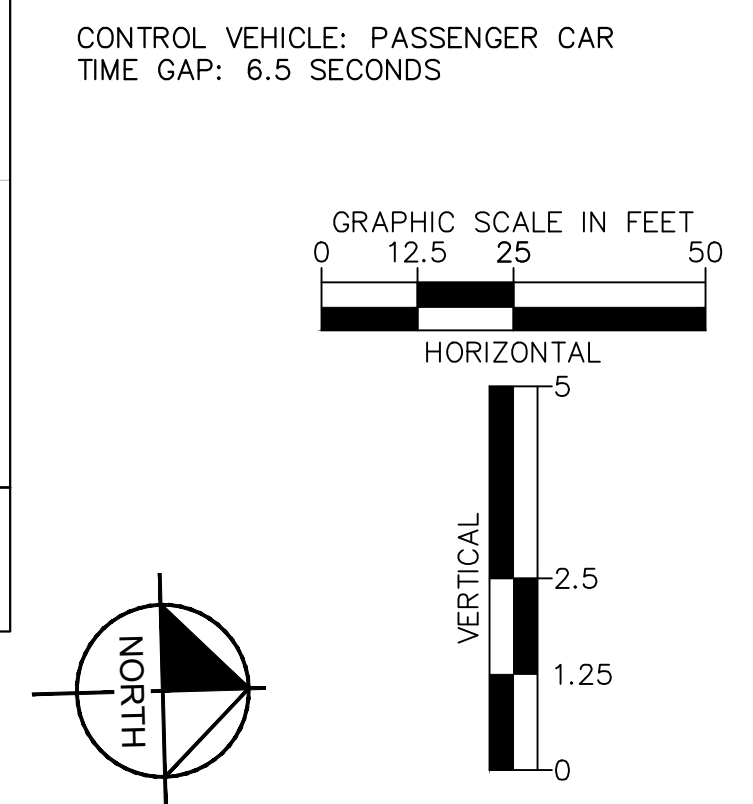
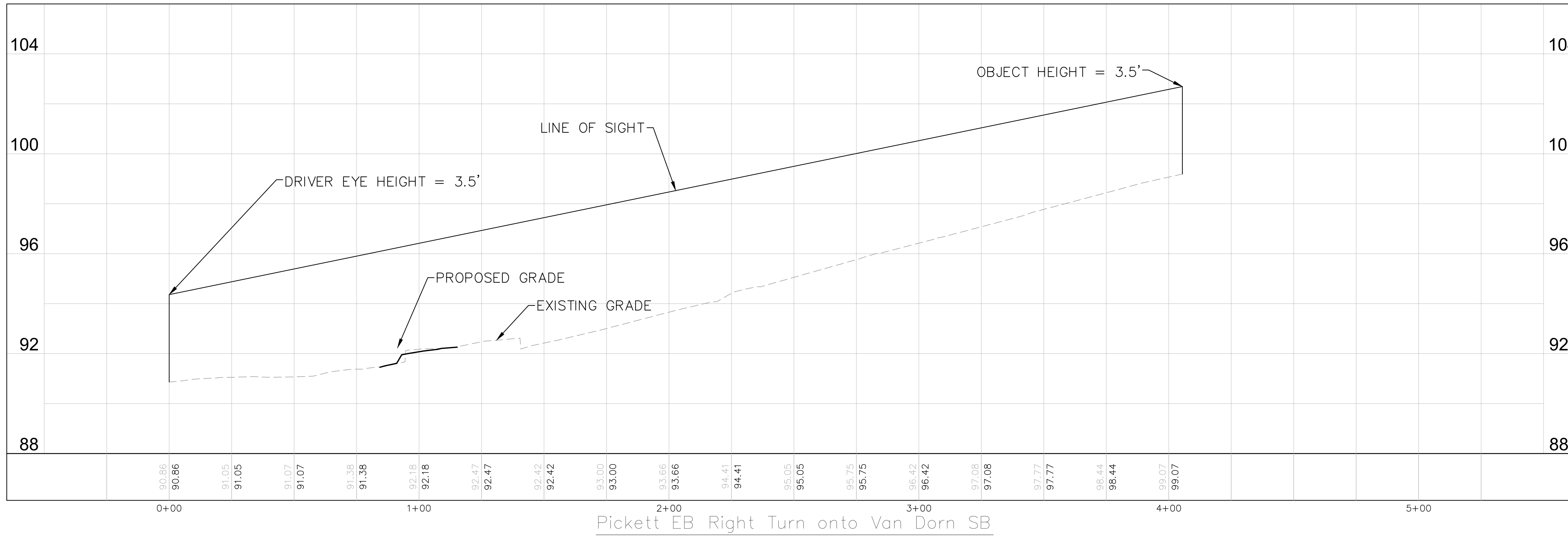
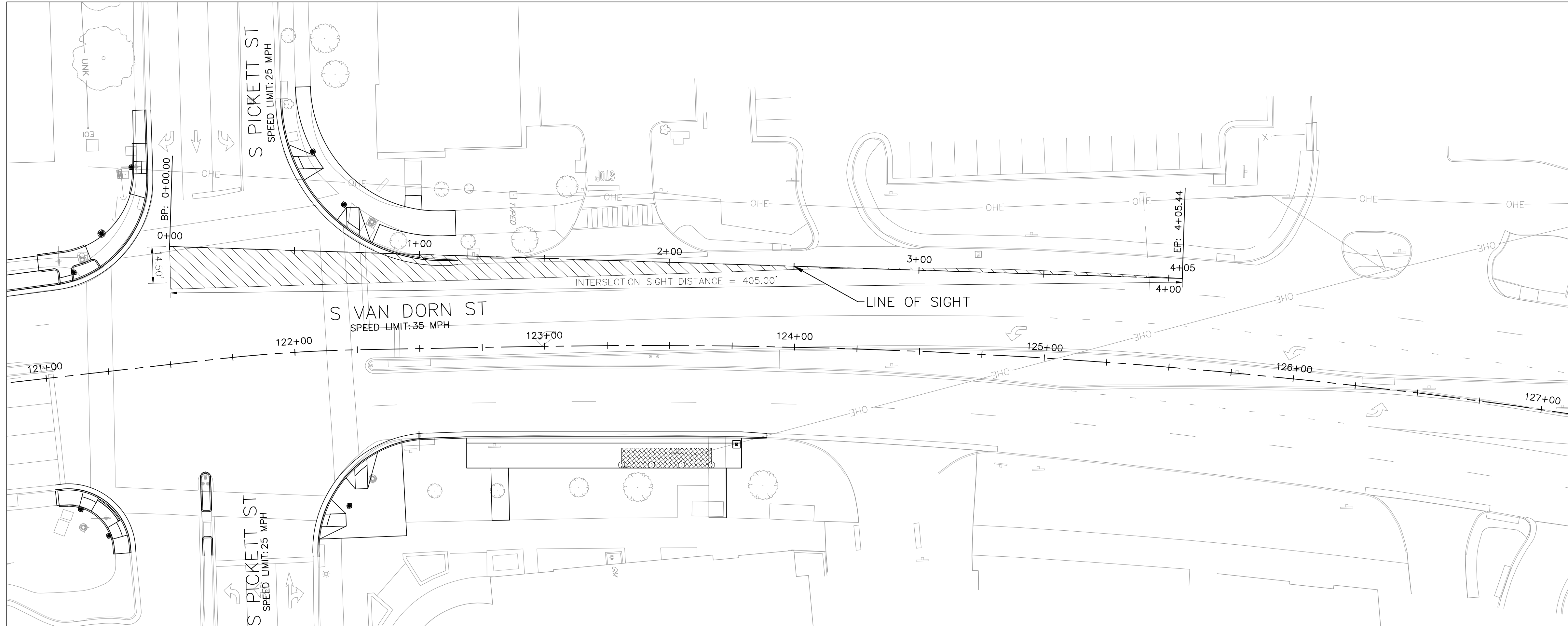
CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

REVISIONS	DESCRIPTION

ALEXANDRIA PROJECT NO.: 110104122
DATE OF PLAN ISSUANCE: N/A
CONSULTANT PROJECT ID: N/A
DESIGNED BY: MAT DATE: 4/5/24
DRAWN BY: AUB DATE: 4/5/24
CHECKED BY: EJD DATE: 4/5/24
APPROVED BY: _____ DATE: _____

SIGHT DISTANCE EXHIBIT
– PICKETT STREET WB
RIGHT

SHEET
SD-001
SCALE 1" = 25'



CONTROL VEHICLE: PASSENGER CAR
TIME GAP: 6.5 SECONDS

Pickett EB Right Turn onto Van Dorn SB

WEST END TRANSITWAY – PHASE 1 IMPROVEMENTS 90% DESIGN PHASE

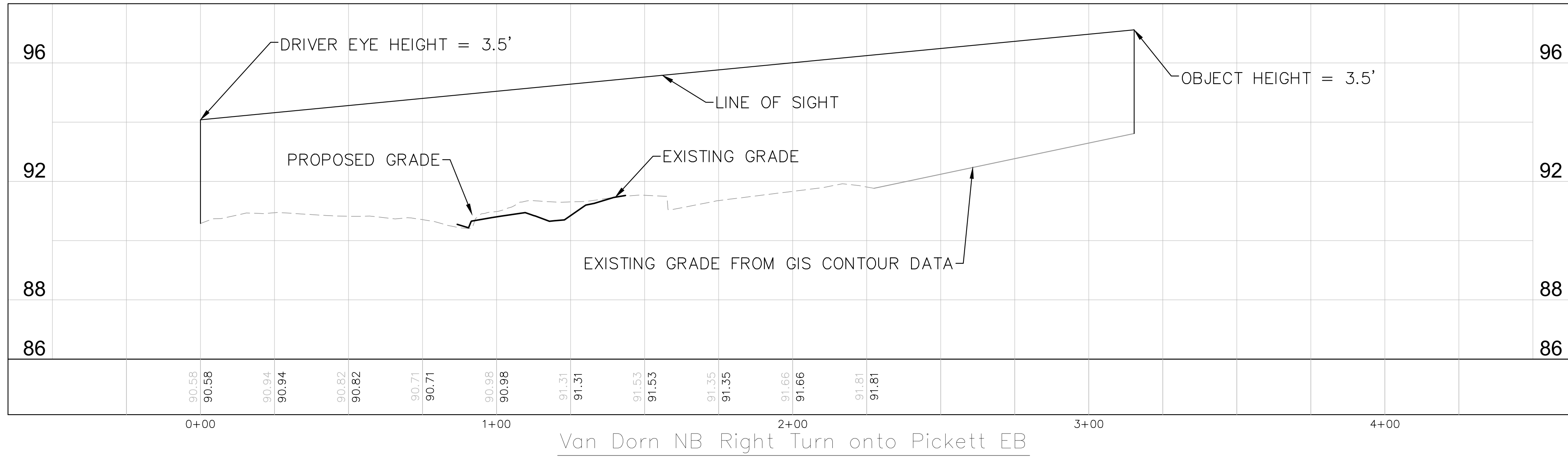


CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

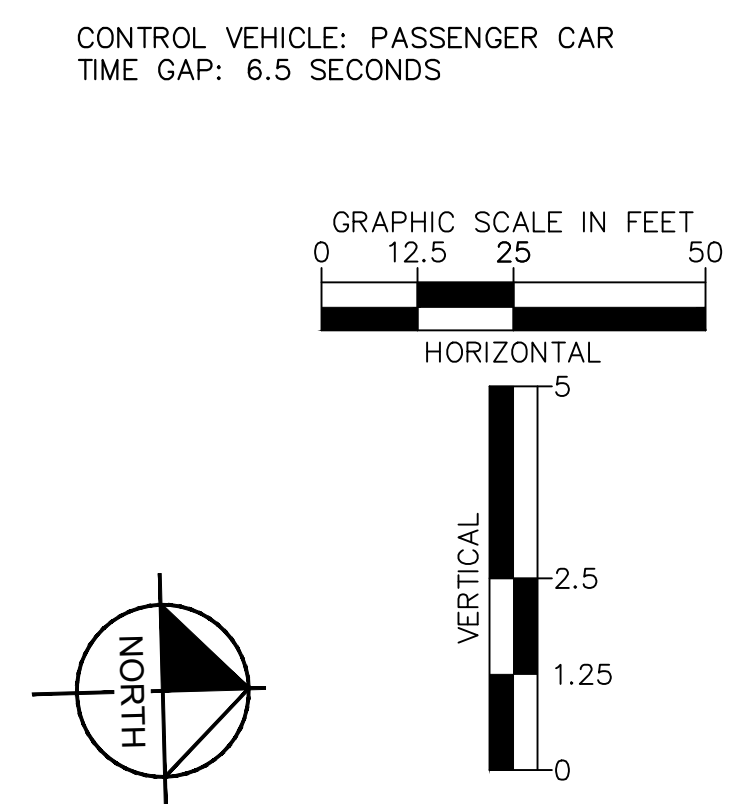
REVISIONS	DESCRIPTION
DATE	BY

ALEXANDRIA PROJECT NO.: 110104122
DATE OF PLAN ISSUANCE: N/A
CONSULTANT PROJECT ID: N/A
DESIGNED BY: MAT DATE: 4/5/24
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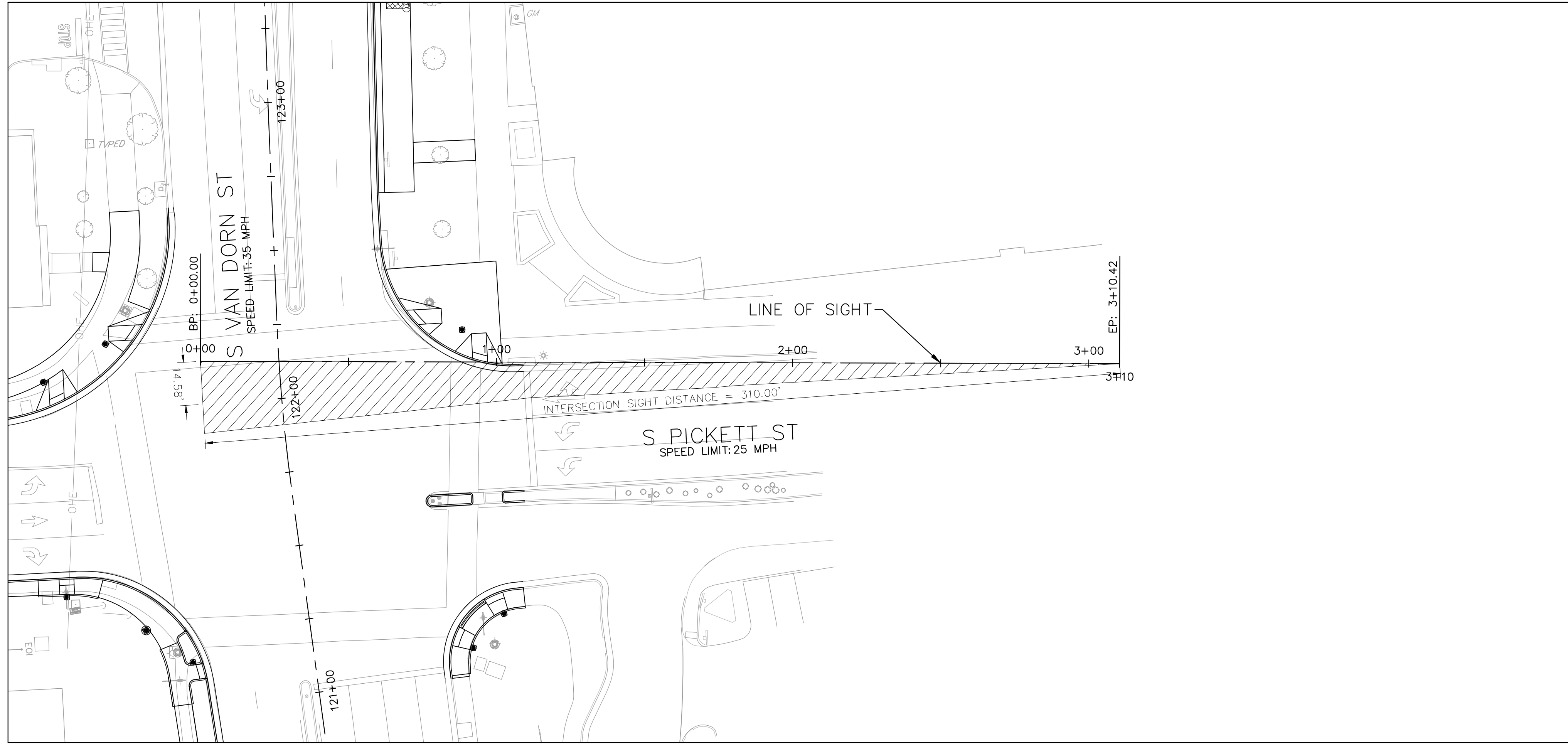
SIGHT DISTANCE EXHIBIT
– PICKETT STREET EB
RIGHT



Van Dorn NB Right Turn onto Pickett EB



CONTROL VEHICLE: PASSENGER CAR
TIME GAP: 6.5 SECONDS



WEST END TRANSITWAY – PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

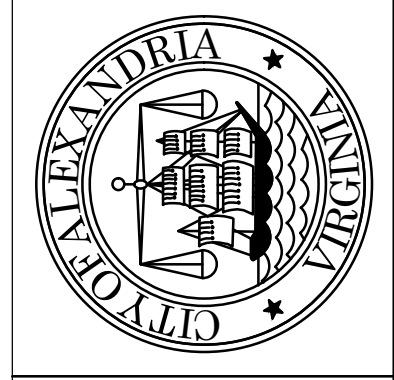
SIGHT DISTANCE EXHIBIT
– VAN DORN STREET
NB RIGHT

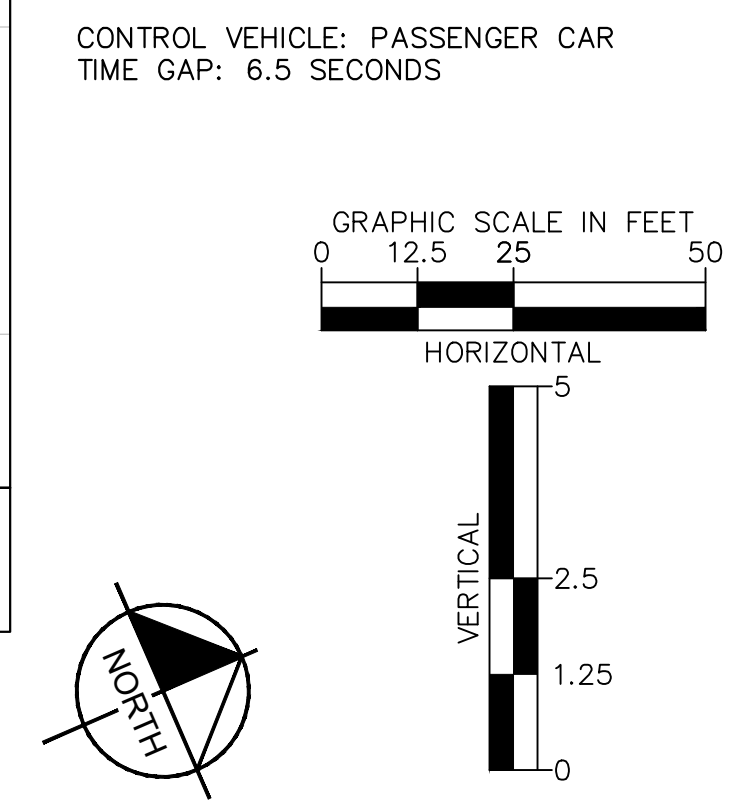
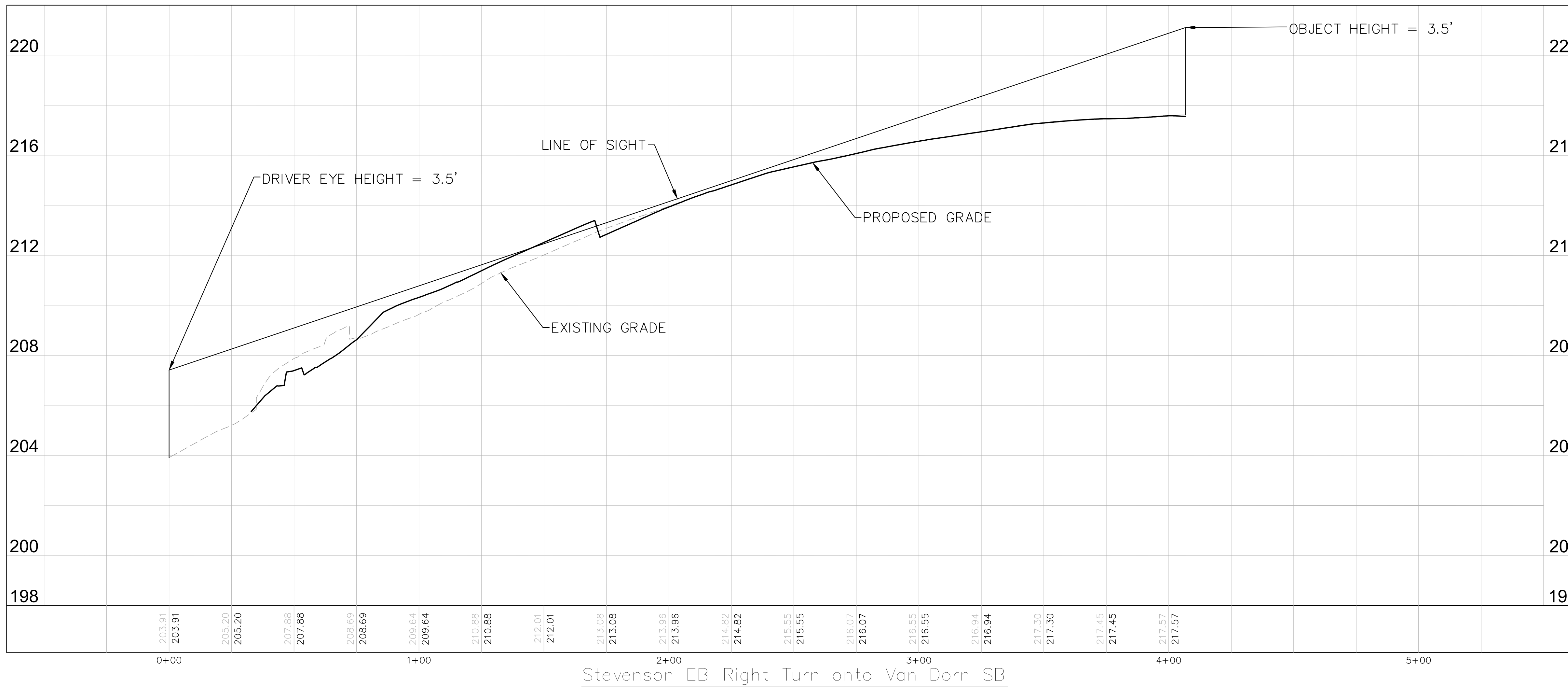
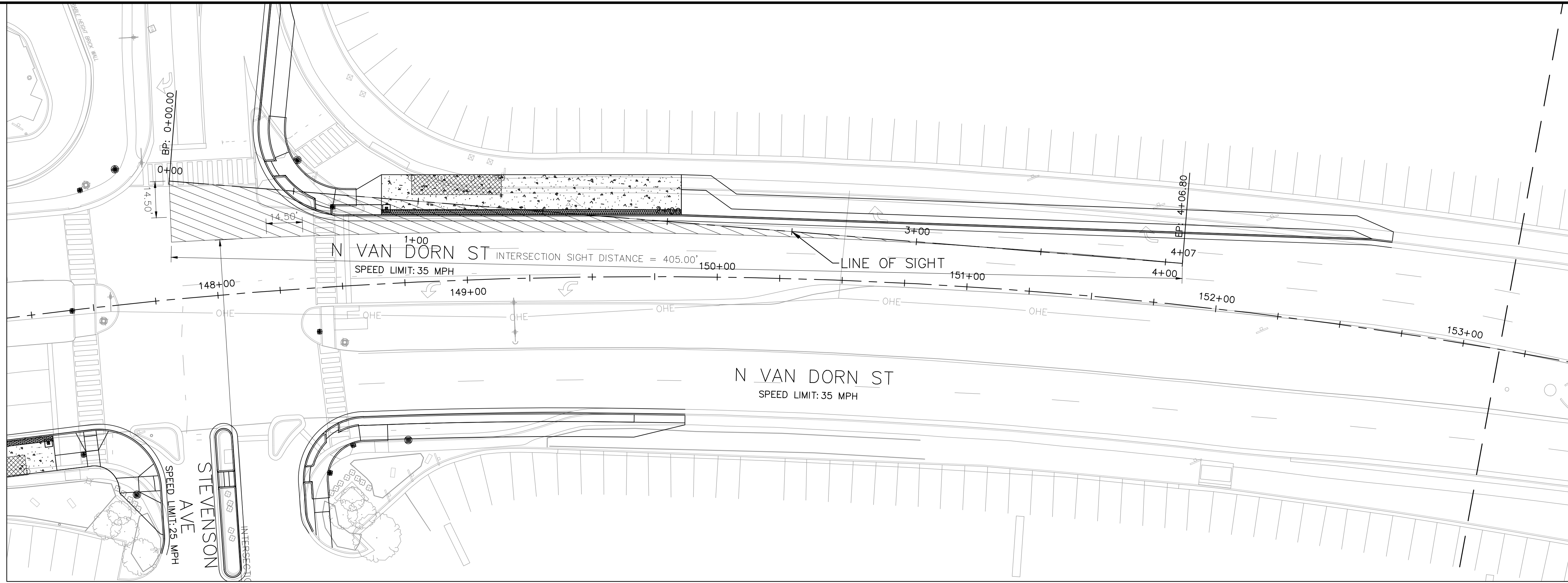
SHEET
SD-003
SCALE 1" = 25'

ALEXANDRIA PROJECT NO.: 110104122
DATE OF PLAN ISSUANCE: N/A
CONSULTANT PROJECT ID: N/A
DESIGNED BY: MAT DATE: 4/5/24
DRAWN BY: AJB DATE: 4/5/24
CHECKED BY: EJD DATE: 4/5/24
APPROVED BY: _____ DATE: _____

REVISIONS	DESCRIPTION
DATE	BY

CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313





CONTROL VEHICLE: PASSENGER CAR
TIME GAP: 6.5 SECONDS

WEST END TRANSITWAY – PHASE 1 IMPROVEMENTS 90% DESIGN PHASE



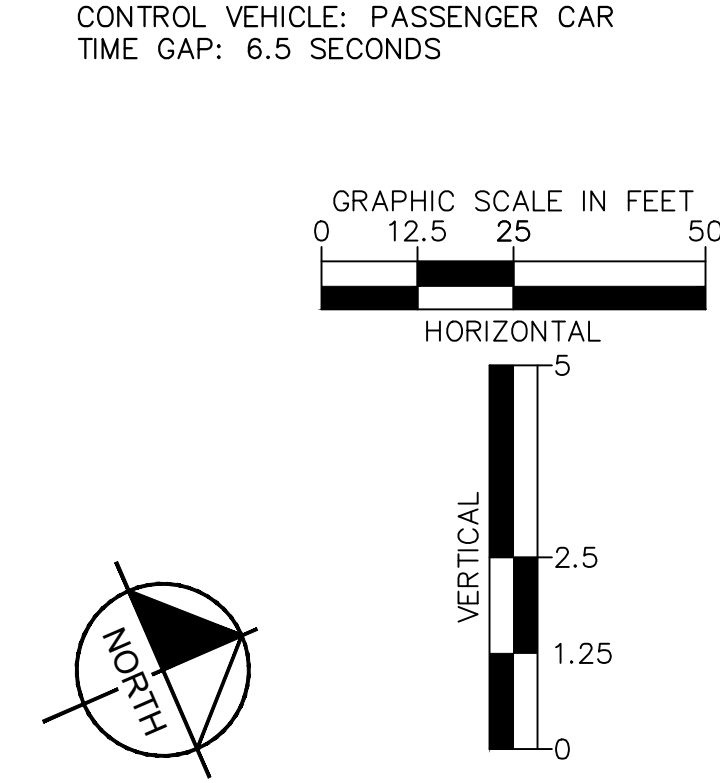
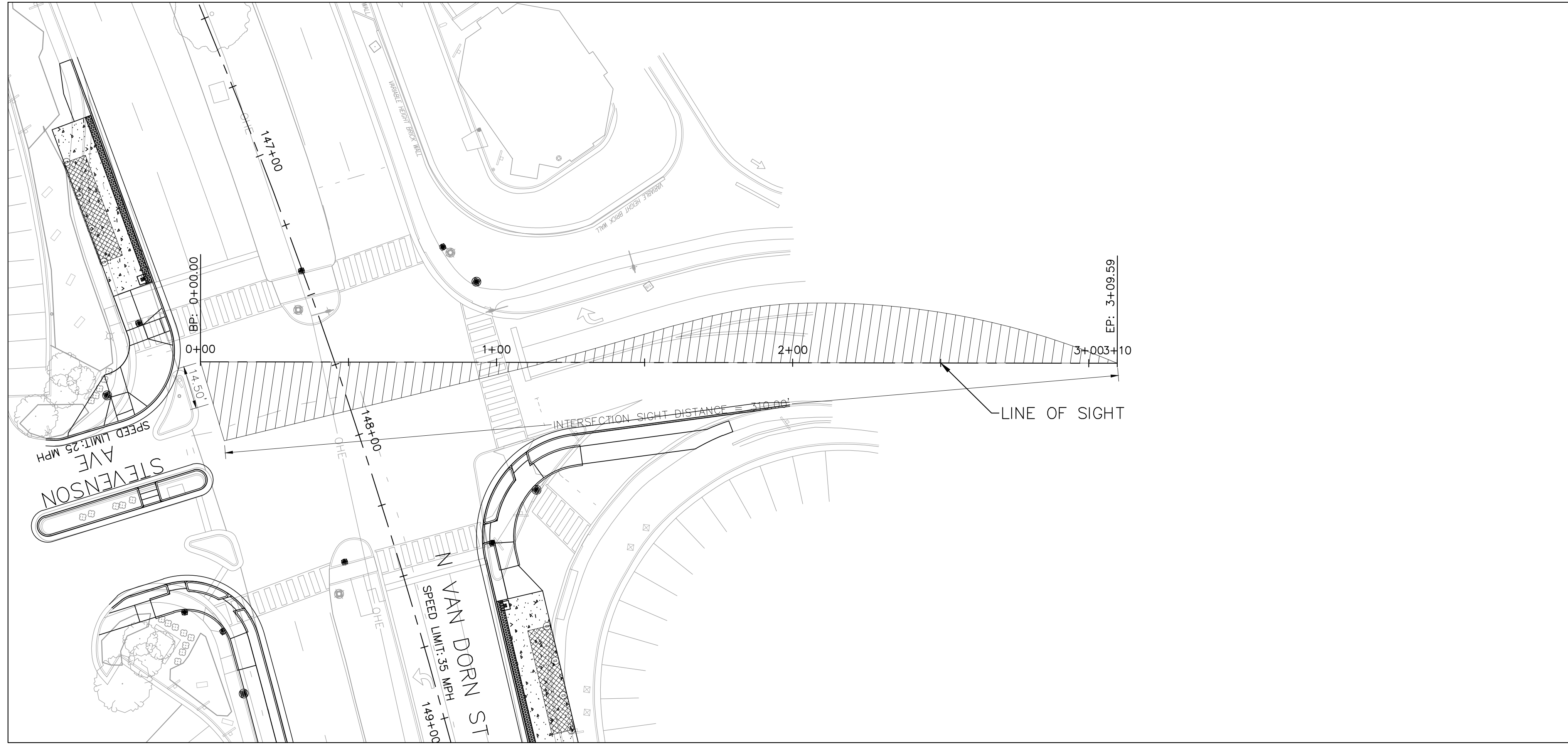
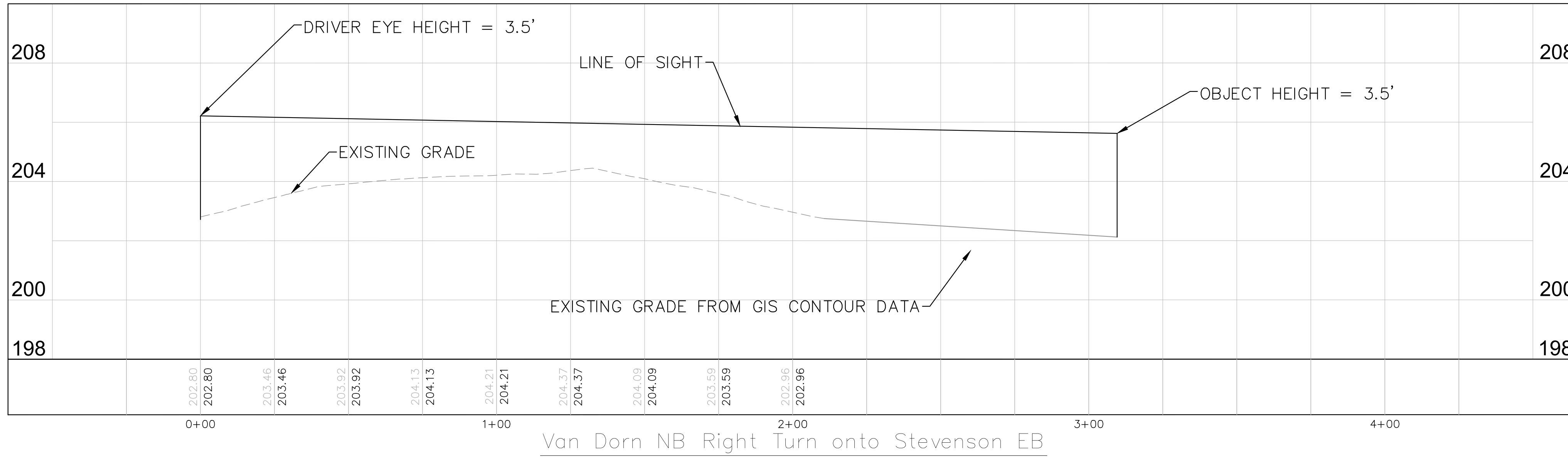
CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

REVISIONS	DESCRIPTION
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BY	

ALEXANDRIA PROJECT NO.:	110104122
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DRAWN BY:	AUB. DATE: 4/5/24
CHECKED BY:	EJD. DATE: 4/5/24
APPROVED BY:	DATE:

SIGHT DISTANCE EXHIBIT
– STEVENSON AVENUE
EB RIGHT

SHEET
SD-005
SCALE 1" = 25'



WEST END TRANSITWAY – PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

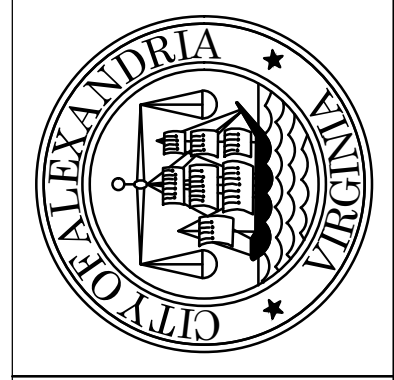
SIGHT DISTANCE EXHIBIT
– VAN DORN STREET
NB RIGHT

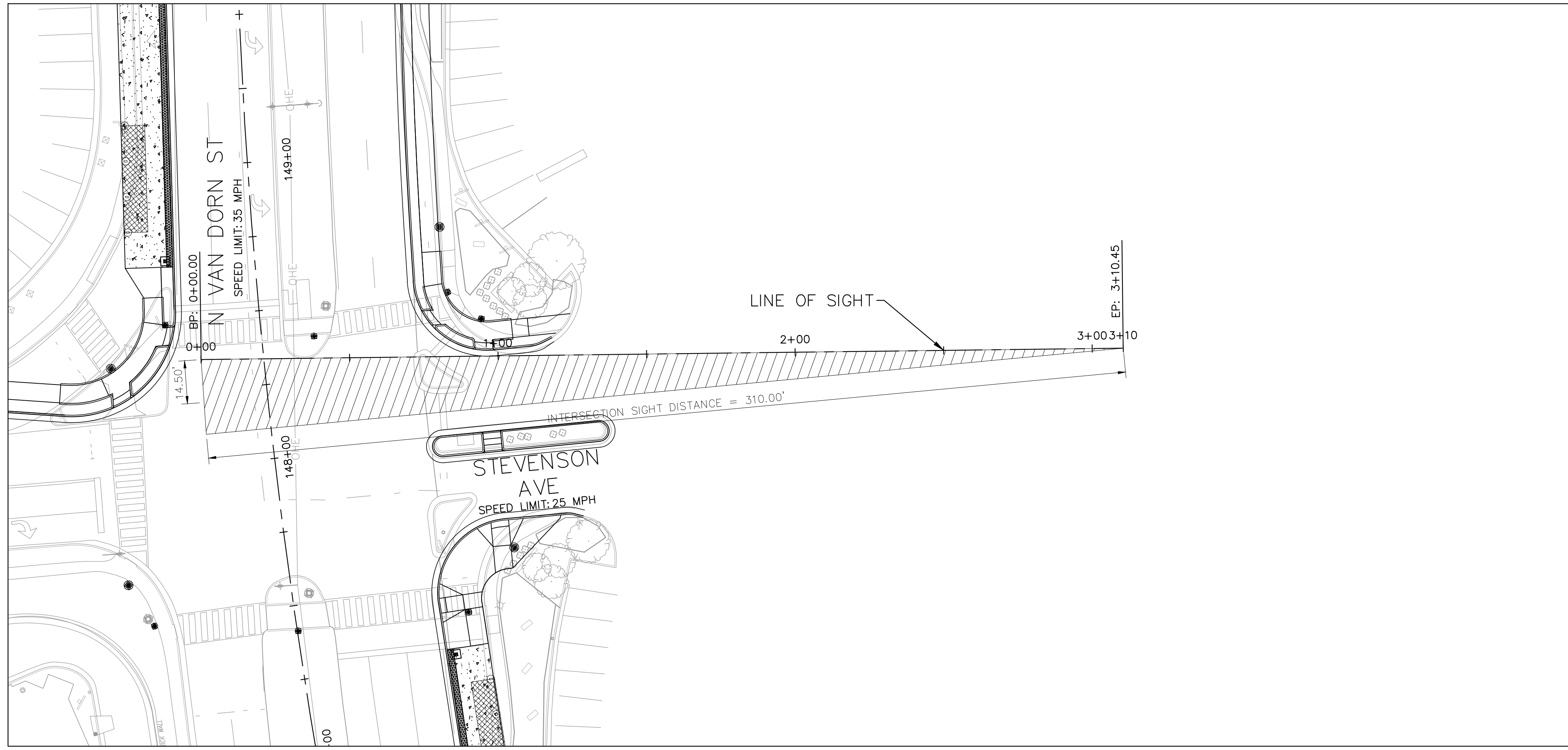
SHEET
SD-006
SCALE 1" = 25'

ALEXANDRIA PROJECT NO.: 110104122
DATE OF PLAN ISSUANCE: N/A
CONSULTANT PROJECT ID: N/A
DESIGNED BY: MAT. DATE: 4/5/24
DRAWN BY: AJB. DATE: 4/5/24
CHECKED BY: EJD. DATE: 4/5/24
APPROVED BY: DATE:

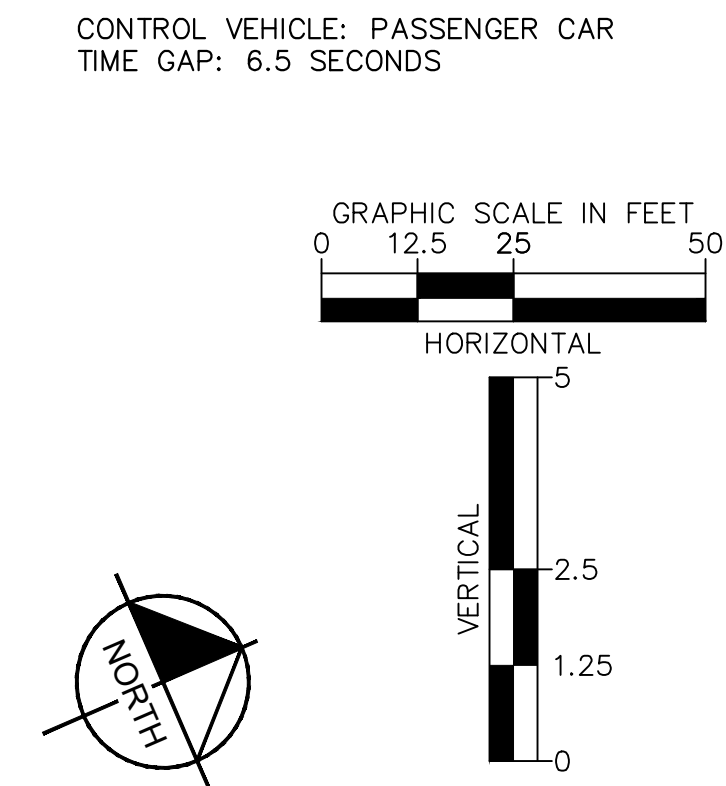
REVISIONS	DATE	DESCRIPTION

CITY OF ALEXANDRIA, VIRGINIA
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301 KING STREET
ALEXANDRIA, VIRGINIA 22313





Van Dorn SB Right Turn onto Stevenson EB



CONTROL VEHICLE: PASSENGER CAR
TIME GAP: 6.5 SECONDS

WEST END TRANSITWAY – PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

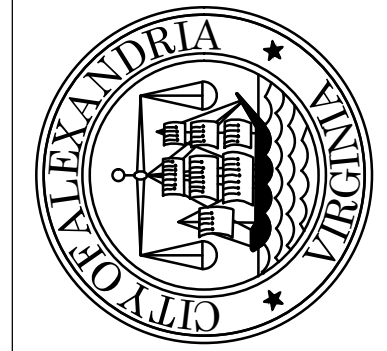
SIGHT DISTANCE EXHIBIT
– VAN DORN STREET
SB RIGHT

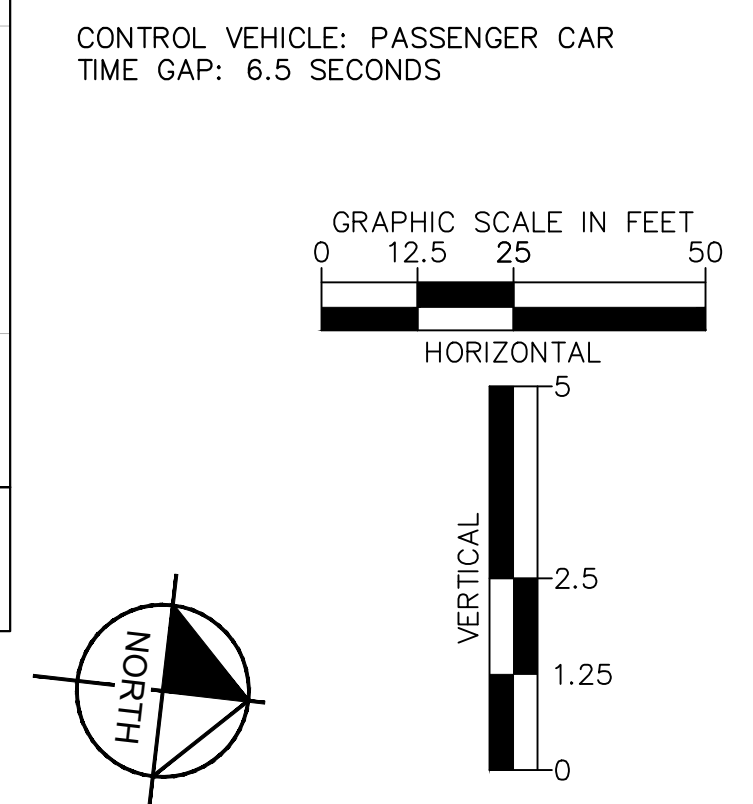
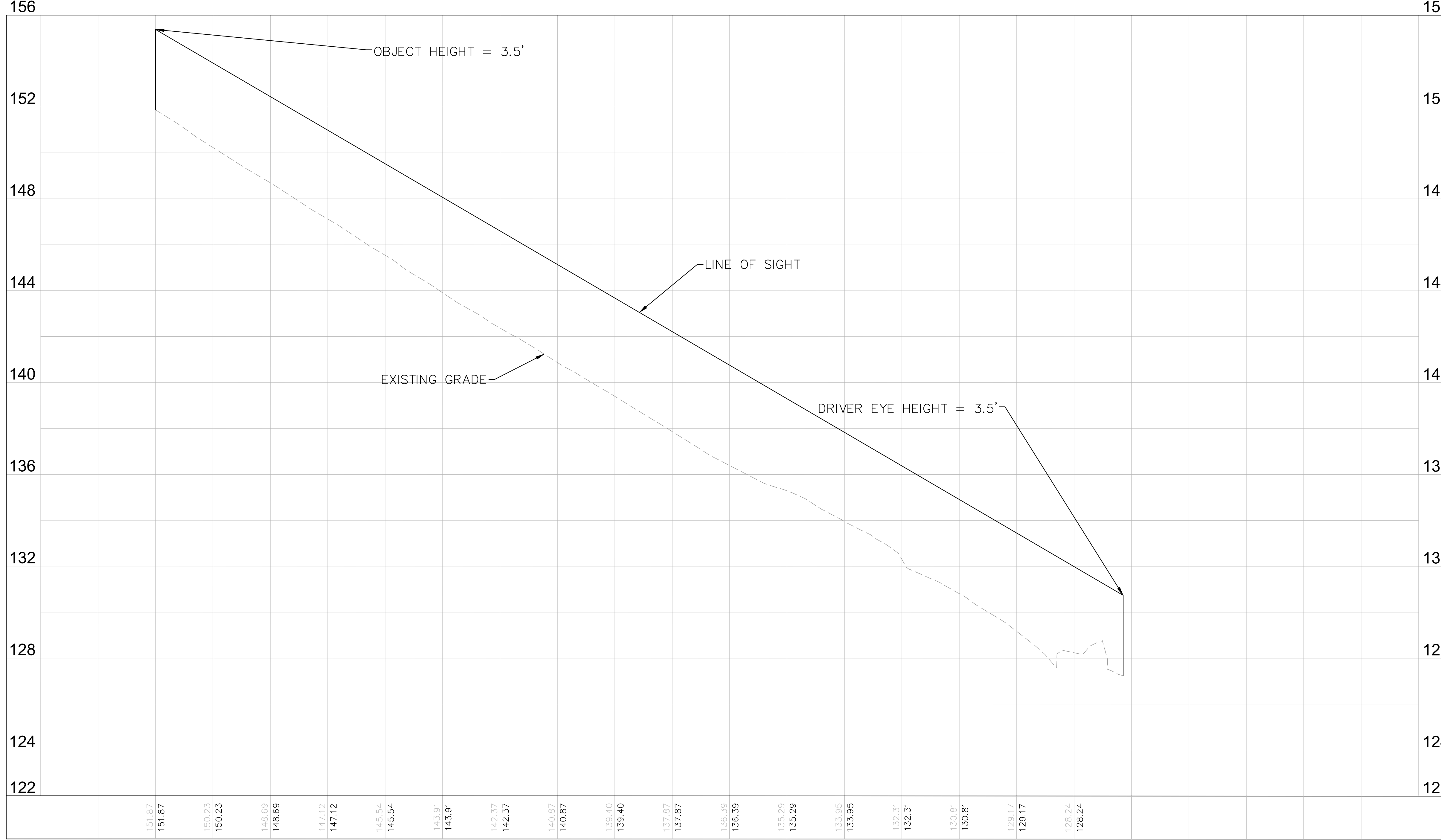
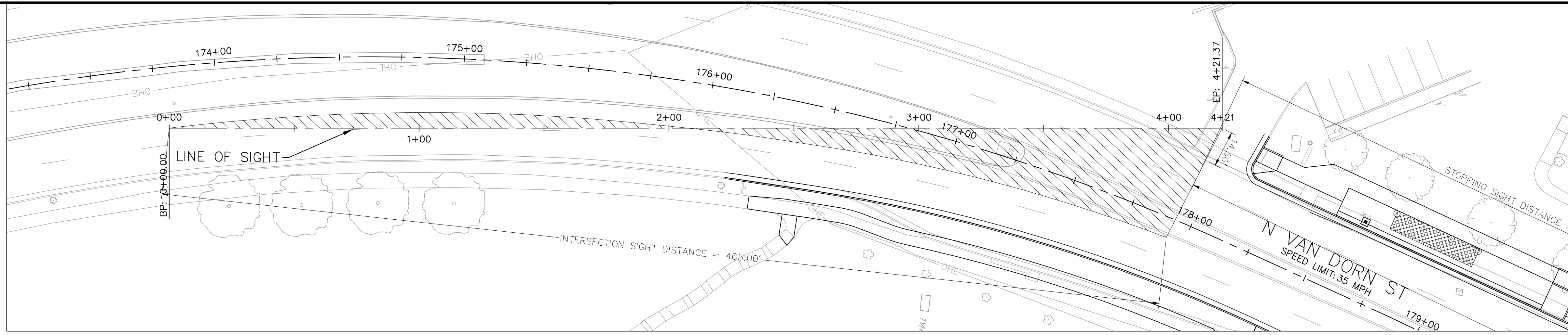
SHEET
SD-007
SCALE 1" = 25'

ALEXANDRIA PROJECT NO.: 110104122
DATE OF PLAN ISSUANCE: N/A
CONSULTANT PROJECT ID: N/A
DESIGNED BY: MAT DATE: 4/5/24
DRAWN BY: AJB DATE: 4/5/24
CHECKED BY: EJD DATE: 4/5/24
APPROVED BY: _____ DATE: _____

REVISIONS	DESCRIPTION
DATE	BY

CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313





CONTROL VEHICLE: PASSENGER CAR
TIME GAP: 6.5 SECONDS

WEST END TRANSITWAY – PHASE 1 IMPROVEMENTS



CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

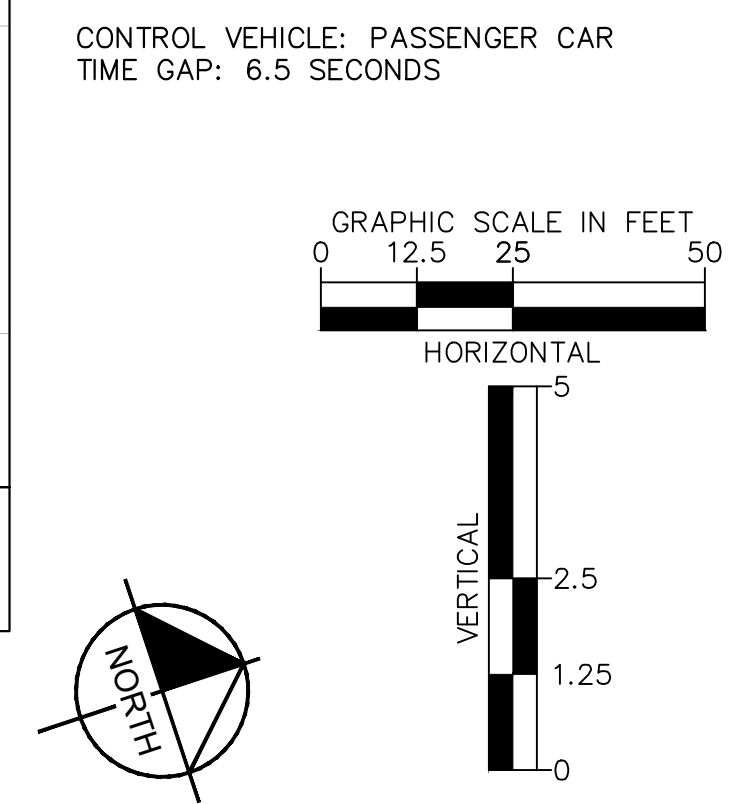
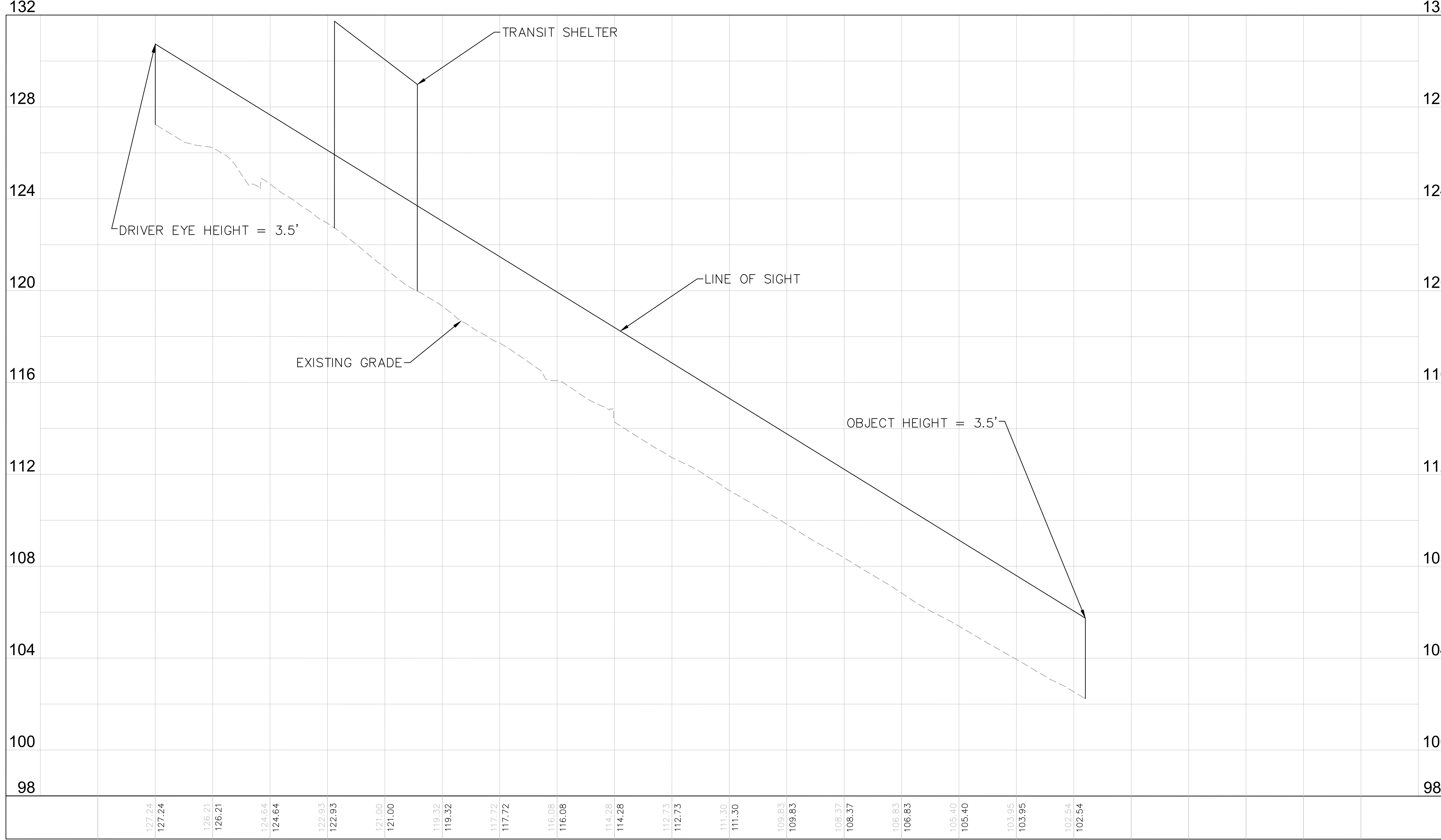
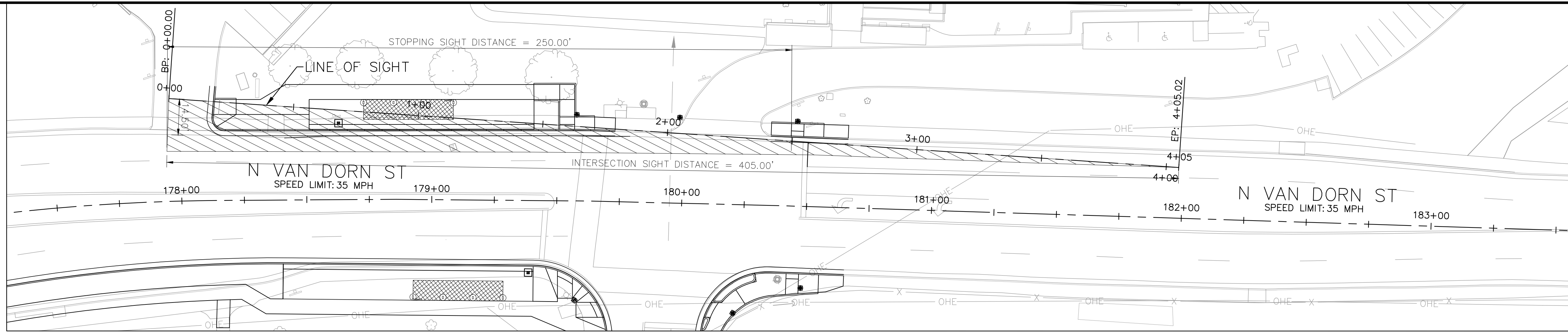
REVISIONS	DATE	BY	DESCRIPTION

ALEXANDRIA PROJECT NO.: 110104122
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CHECKED BY: EJD DATE: 4/5/24
APPROVED BY: _____ DATE: _____

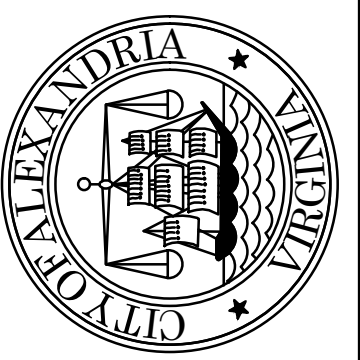
SIGHT DISTANCE EXHIBIT
– BROADSTONE
DRIVEWAY LEFT

SHEET
SD-008
SCALE 1" = 25'

90% DESIGN PHASE



WEST END TRANSITWAY – PHASE 1 IMPROVEMENTS



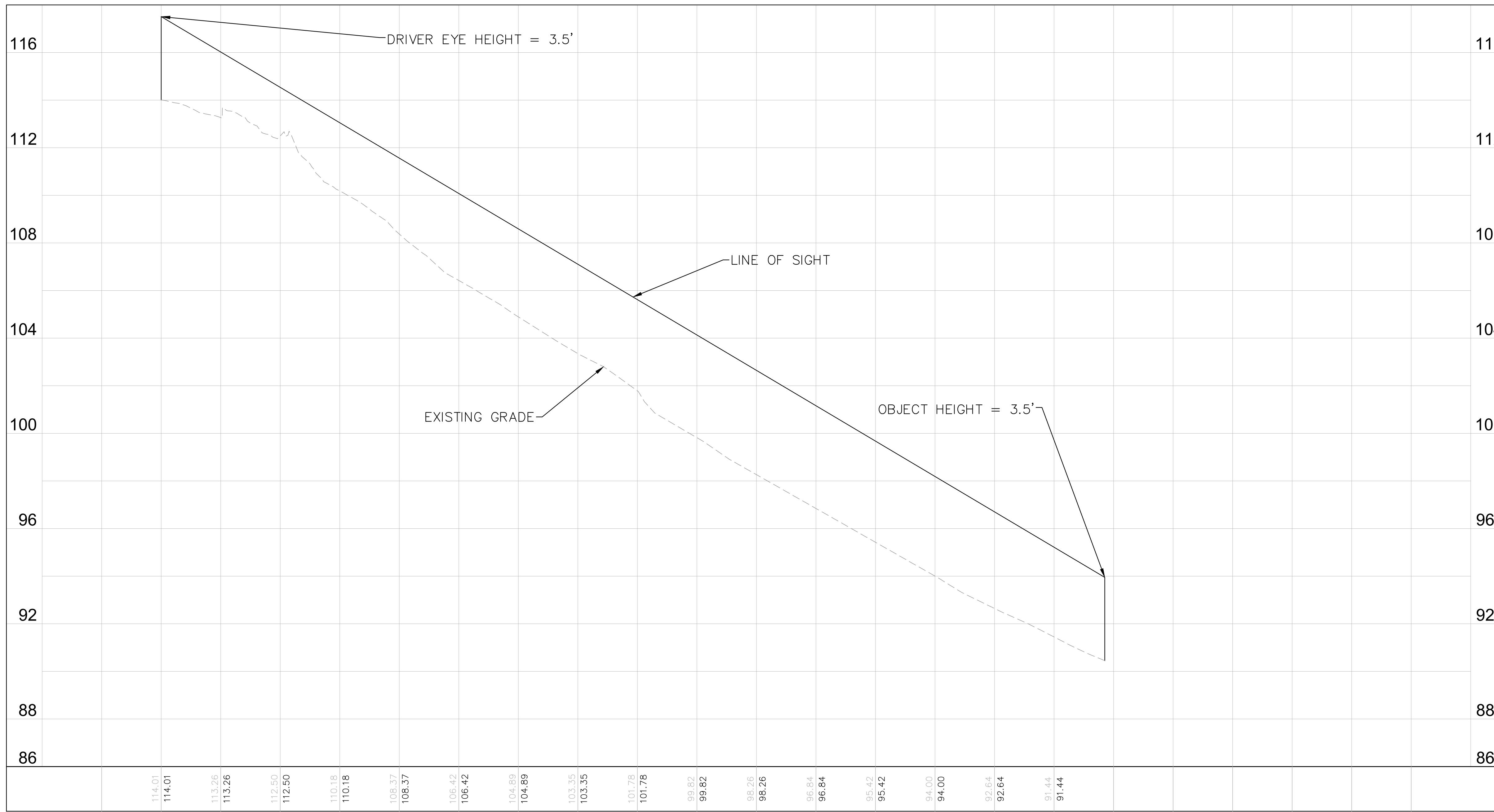
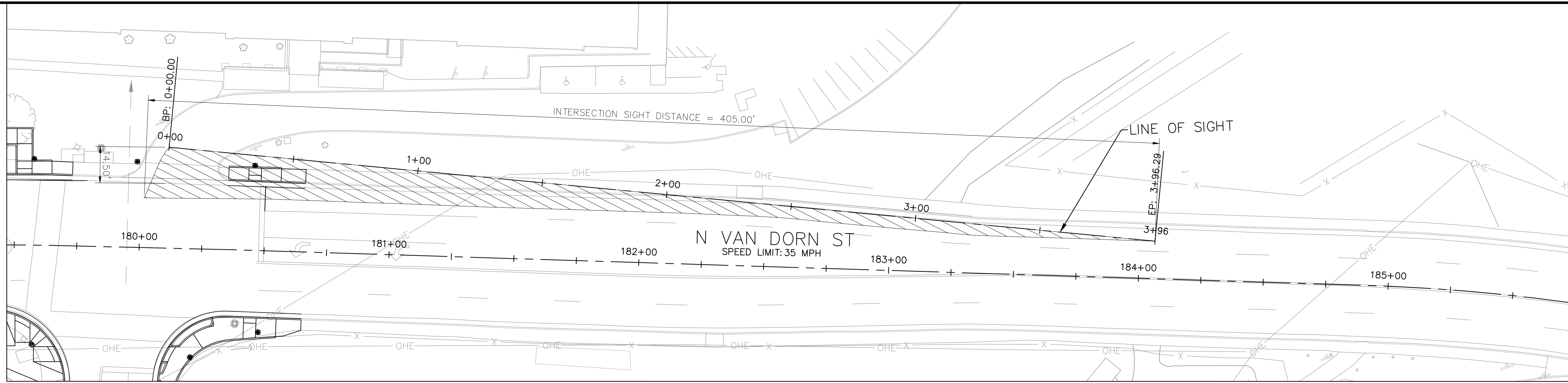
CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

REVISIONS	DESCRIPTION
BY	
DATE	

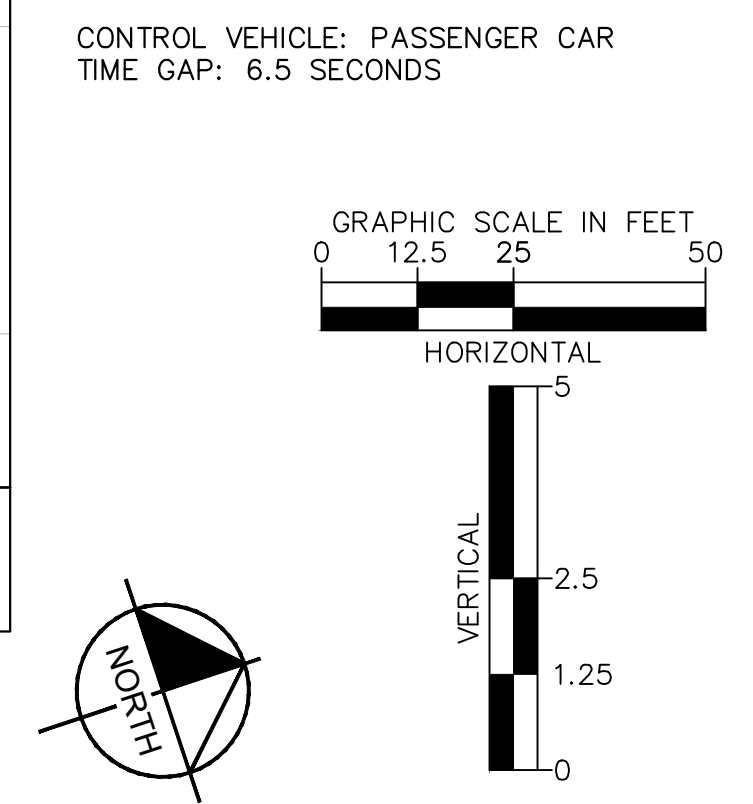
ALEXANDRIA PROJECT NO.: 110104122
 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: MAT DATE: 4/5/24
 DRAWN BY: AJB DATE: 4/5/24
 CHECKED BY: EJD DATE: 4/5/24
 APPROVED BY: _____ DATE: _____

SIGHT DISTANCE EXHIBIT
– BROADSTONE
DRIVEWAY RIGHT

SHEET
 SD-009
 SCALE 1" = 25'



Holmes Run EB Right Turn onto Van Dorn SB



CONTROL VEHICLE: PASSENGER CAR
TIME GAP: 6.5 SECONDS

WEST END TRANSITWAY – PHASE 1 IMPROVEMENTS 90% DESIGN PHASE



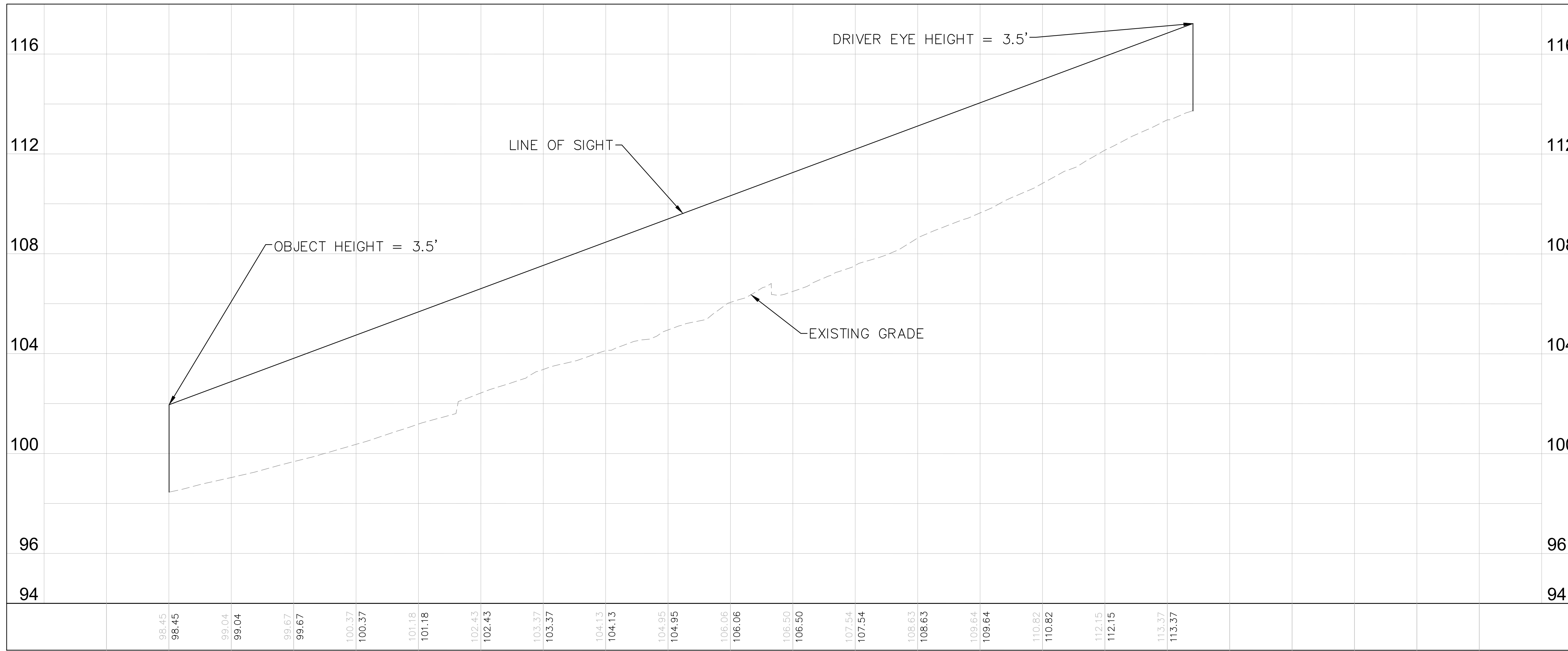
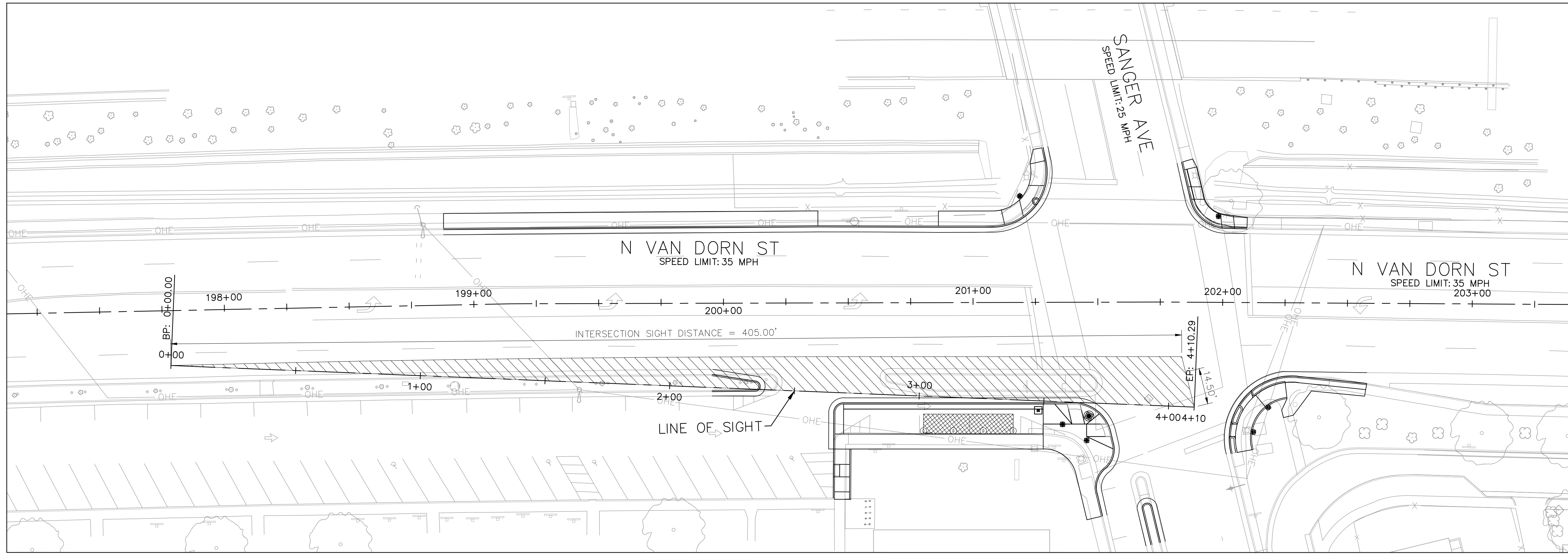
CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

REVISIONS	DESCRIPTION
DATE	BY

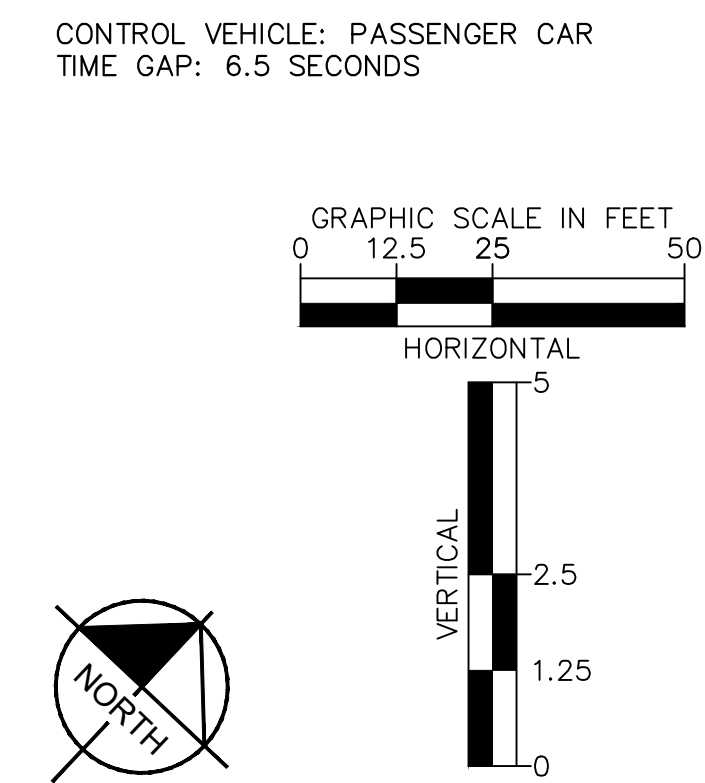
ALEXANDRIA PROJECT NO.: 110104122
DATE OF PLAN ISSUANCE: N/A
CONSULTANT PROJECT ID: N/A
DESIGNED BY: MAT. DATE: 4/5/24
DRAWN BY: AUB. DATE: 4/5/24
CHECKED BY: EJD. DATE: 4/5/24
APPROVED BY: _____ DATE: _____

SIGHT DISTANCE EXHIBIT
– HOLMES RUN PKWY
EB RIGHT

SHEET
SD-010
SCALE 1" = 25'



Rickenbacher Right Turn onto Van Dorn SB



CONTROL VEHICLE: PASSENGER CAR
TIME GAP: 6.5 SECONDS

WEST END TRANSITWAY – PHASE 1 IMPROVEMENTS

SIGHT DISTANCE EXHIBIT
– RICHENBACHER
STREET RIGHT

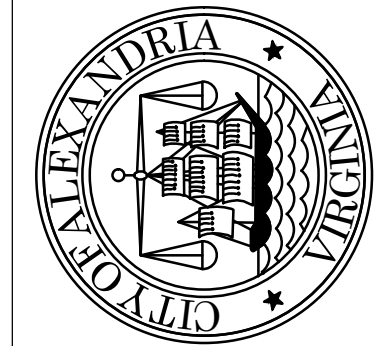
SHEET
SD-011
SCALE 1" = 25'

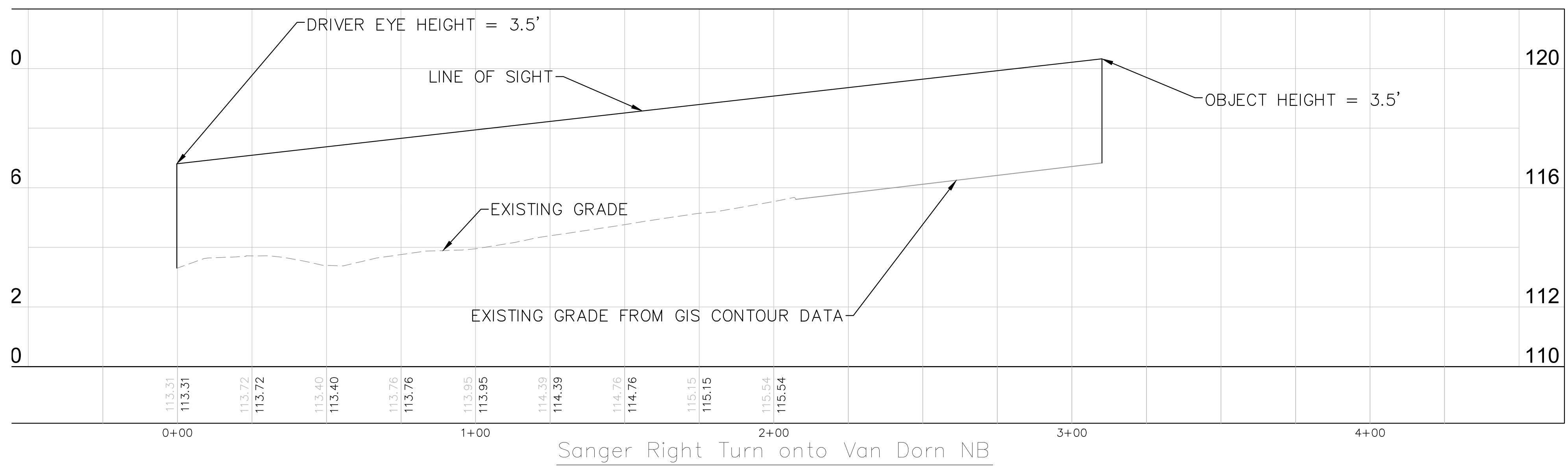
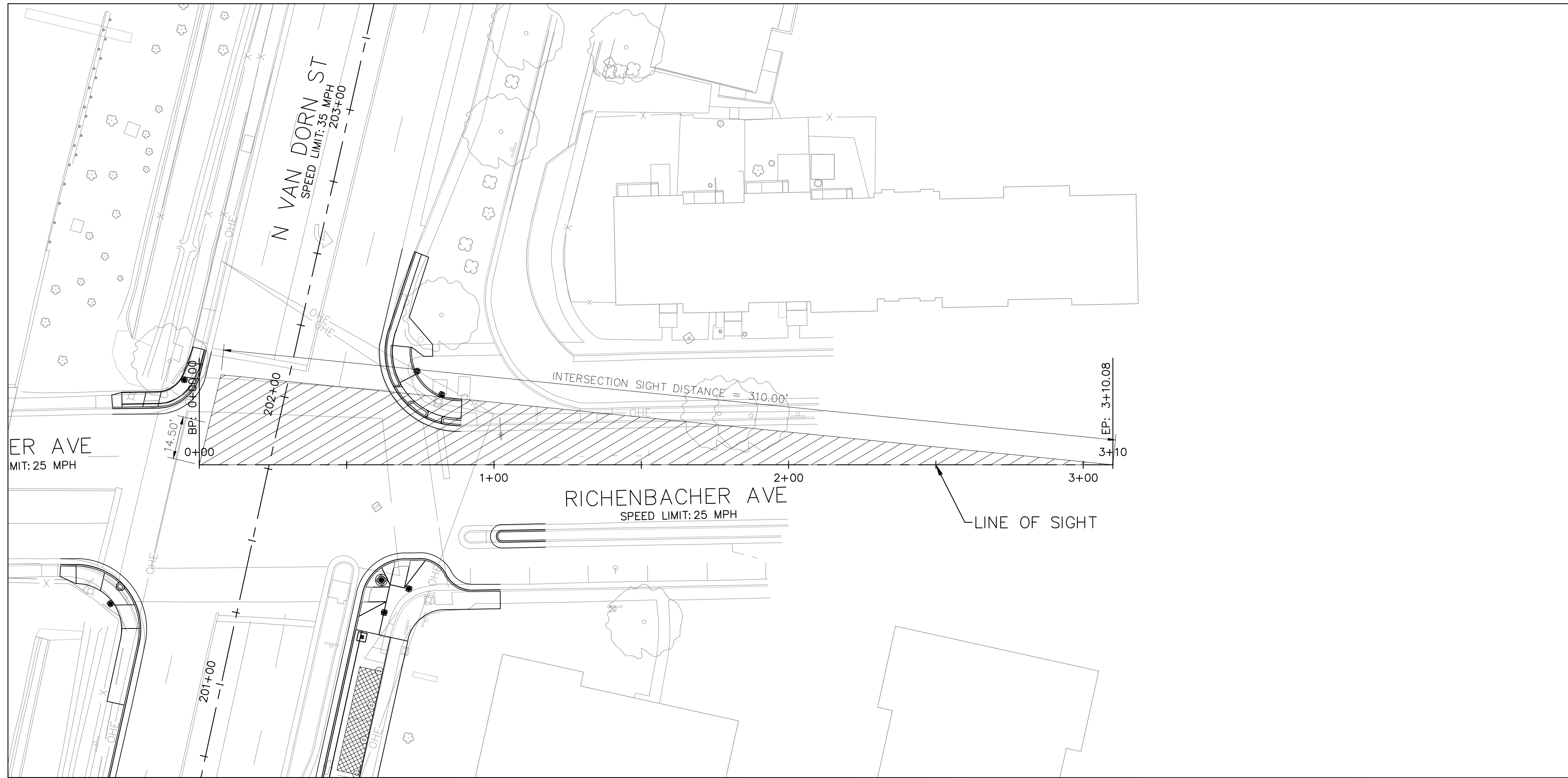
ALEXANDRIA PROJECT NO.:	110104122
DATE OF PLAN ISSUANCE:	N/A
CONSULTANT PROJECT ID.:	N/A
DESIGNED BY:	MAT. DATE: 4/5/24
DRAWN BY:	AJB. DATE: 4/5/24
CHECKED BY:	ED. DATE: 4/5/24
APPROVED BY:	DATE:

REVISIONS	DESCRIPTION
BY	
DATE	

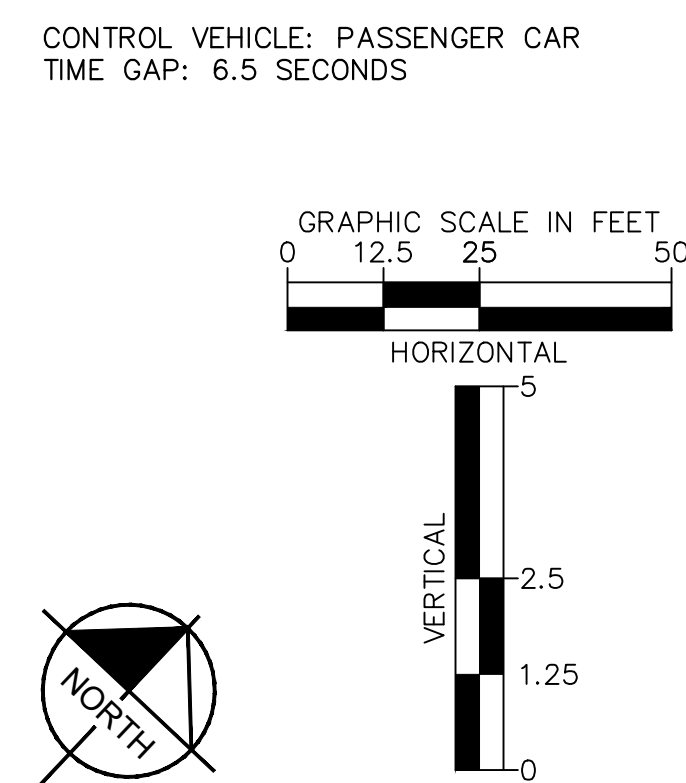
90% DESIGN PHASE

CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313





Sanger Right Turn onto Van Dorn NB



CONTROL VEHICLE: PASSENGER CAR
TIME GAP: 6.5 SECONDS

WEST END TRANSITWAY – PHASE 1 IMPROVEMENTS

SIGHT DISTANCE EXHIBIT
– SANGER AVENUE
RIGHT

SHEET
SD-012
SCALE 1" = 25'

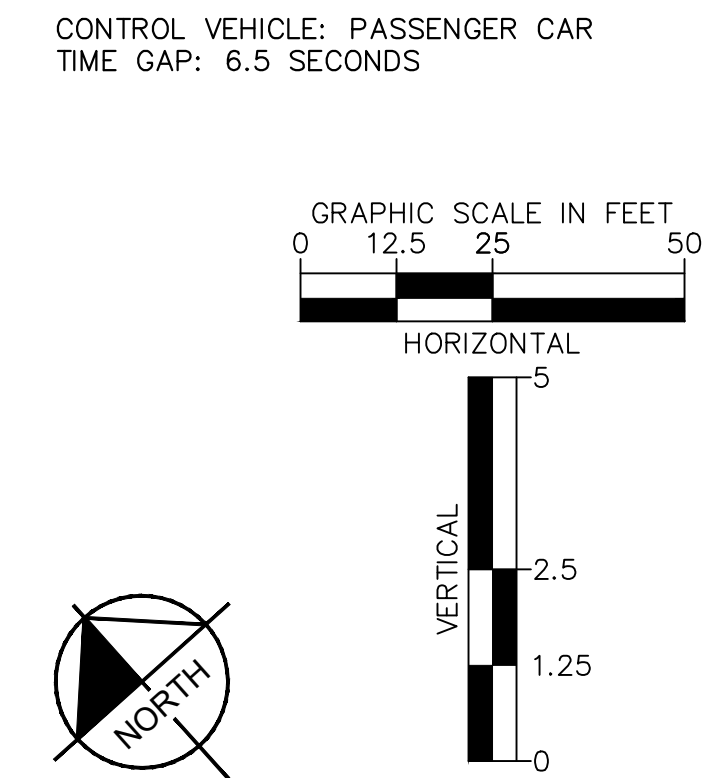
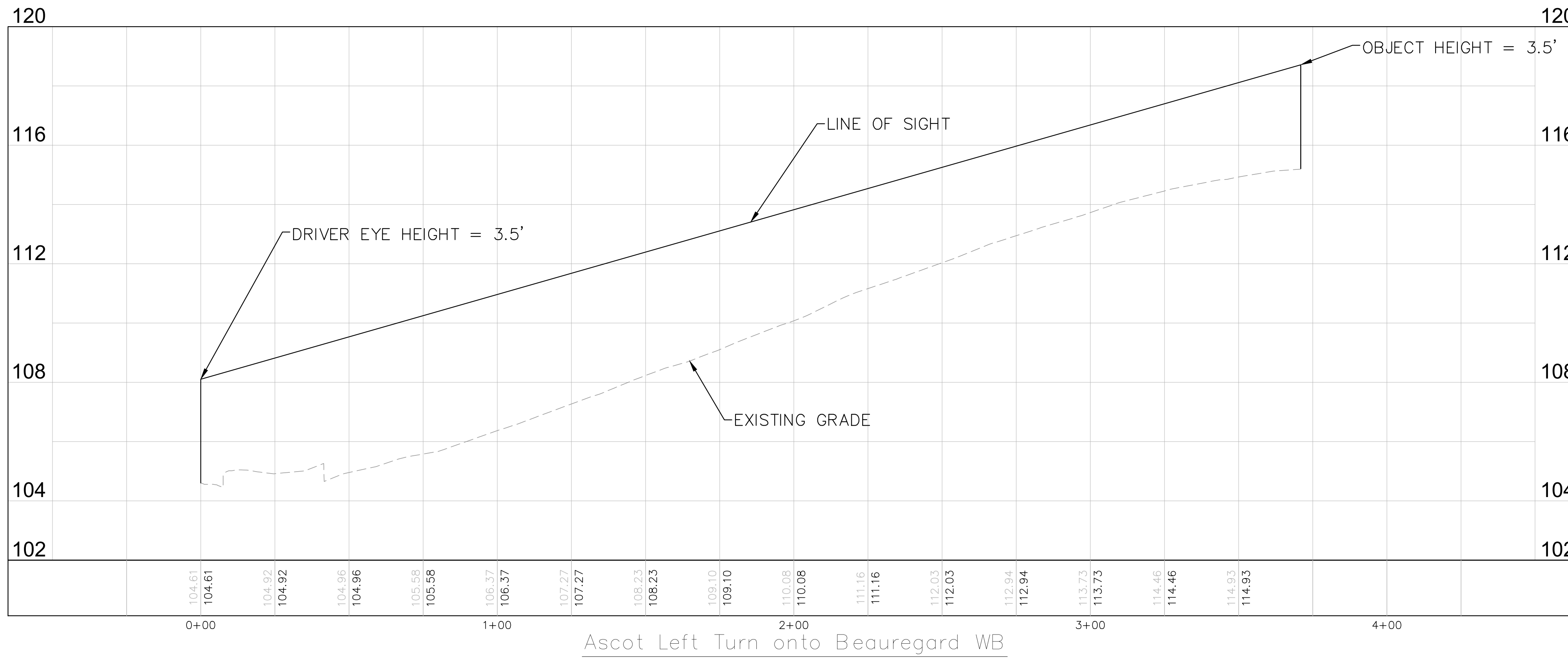
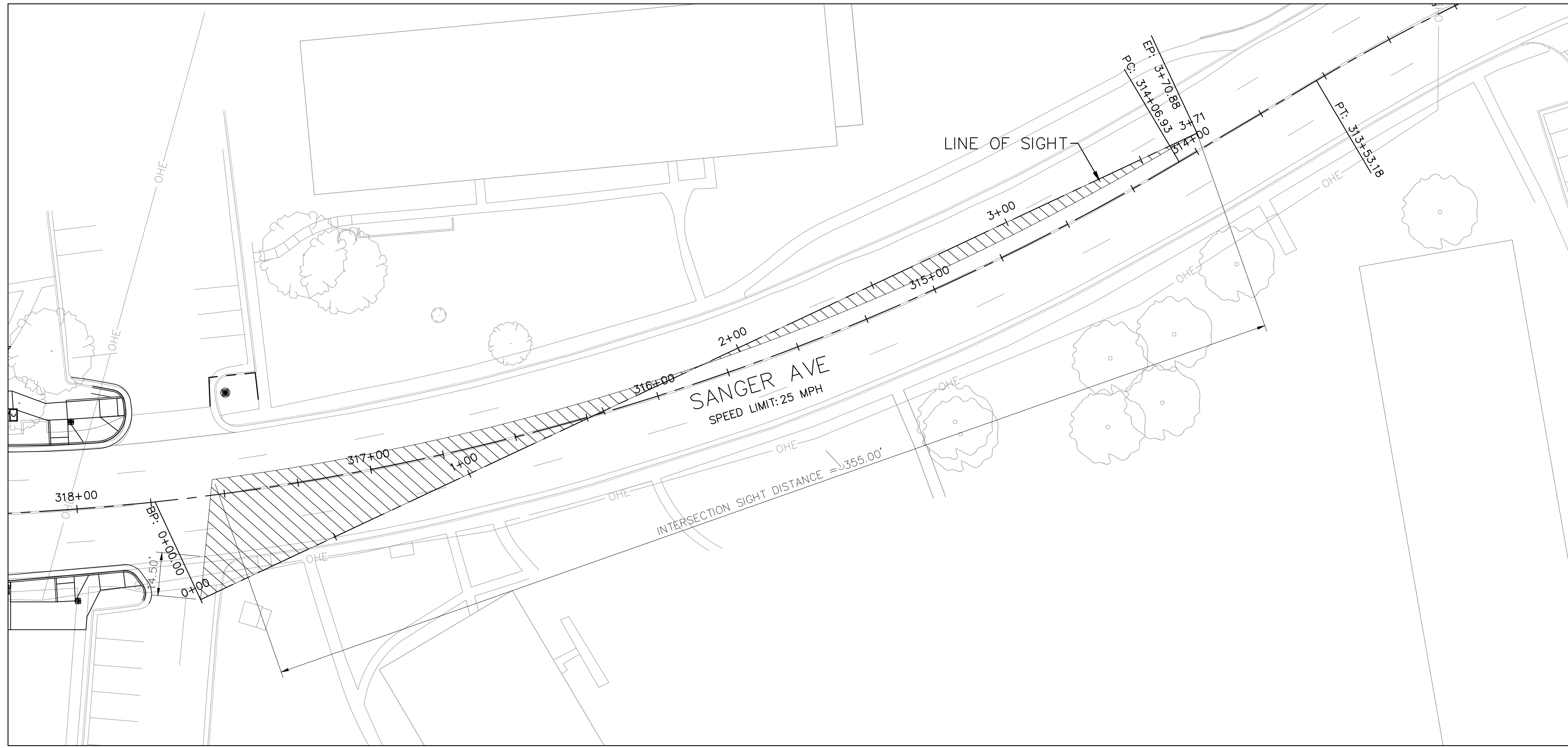
ALEXANDRIA PROJECT NO.:	110104122
DATE OF PLAN ISSUANCE:	N/A
CONSULTANT PROJECT ID.:	N/A
DESIGNED BY:	MAT. DATE: 4/5/24
DRAWN BY:	AJB. DATE: 4/5/24
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REVISIONS	DESCRIPTION
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90% DESIGN PHASE

CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313





WEST END TRANSITWAY – PHASE 1 IMPROVEMENTS

SIGHT DISTANCE EXHIBIT
– ASCOT COURT LEFT

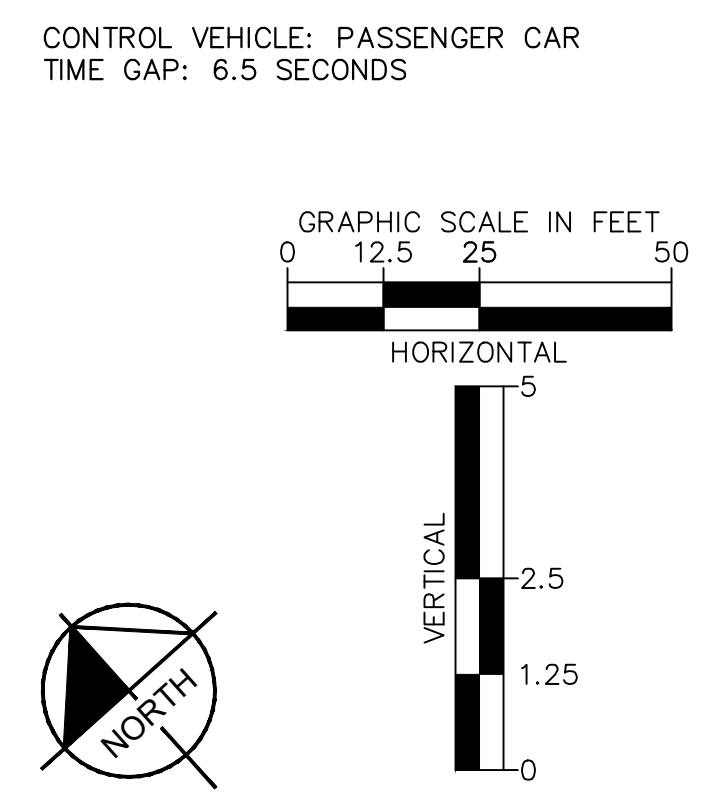
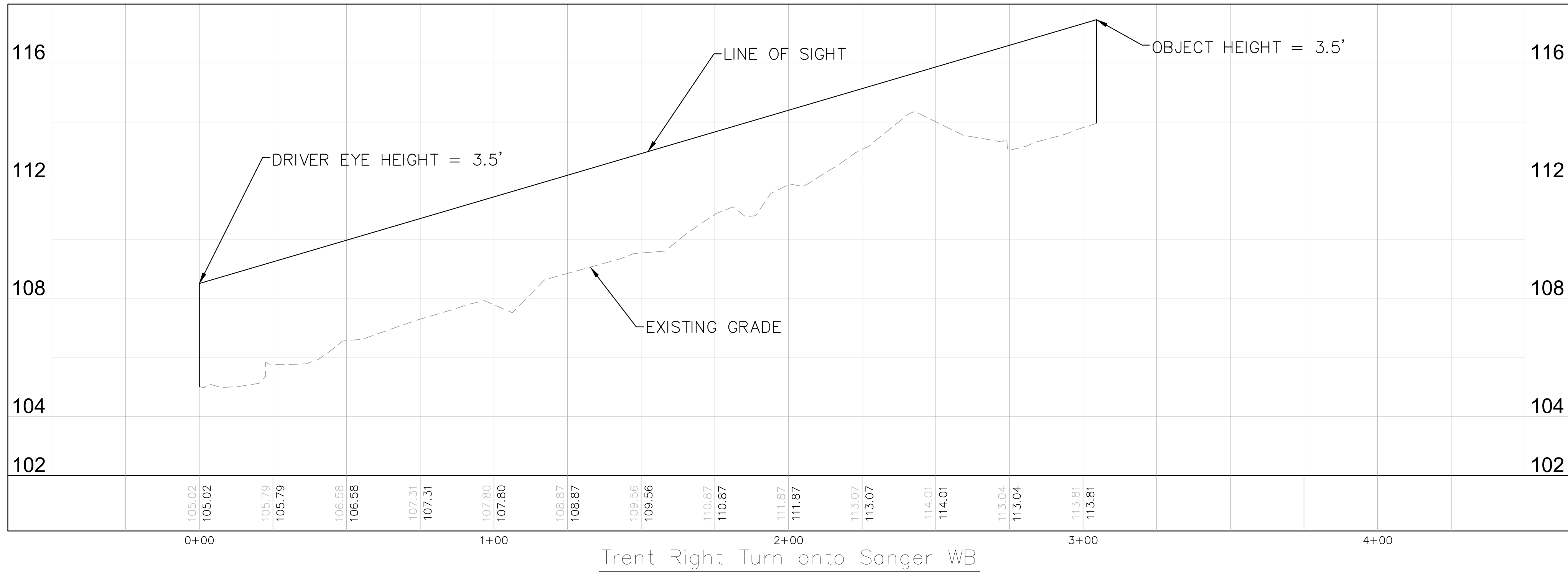
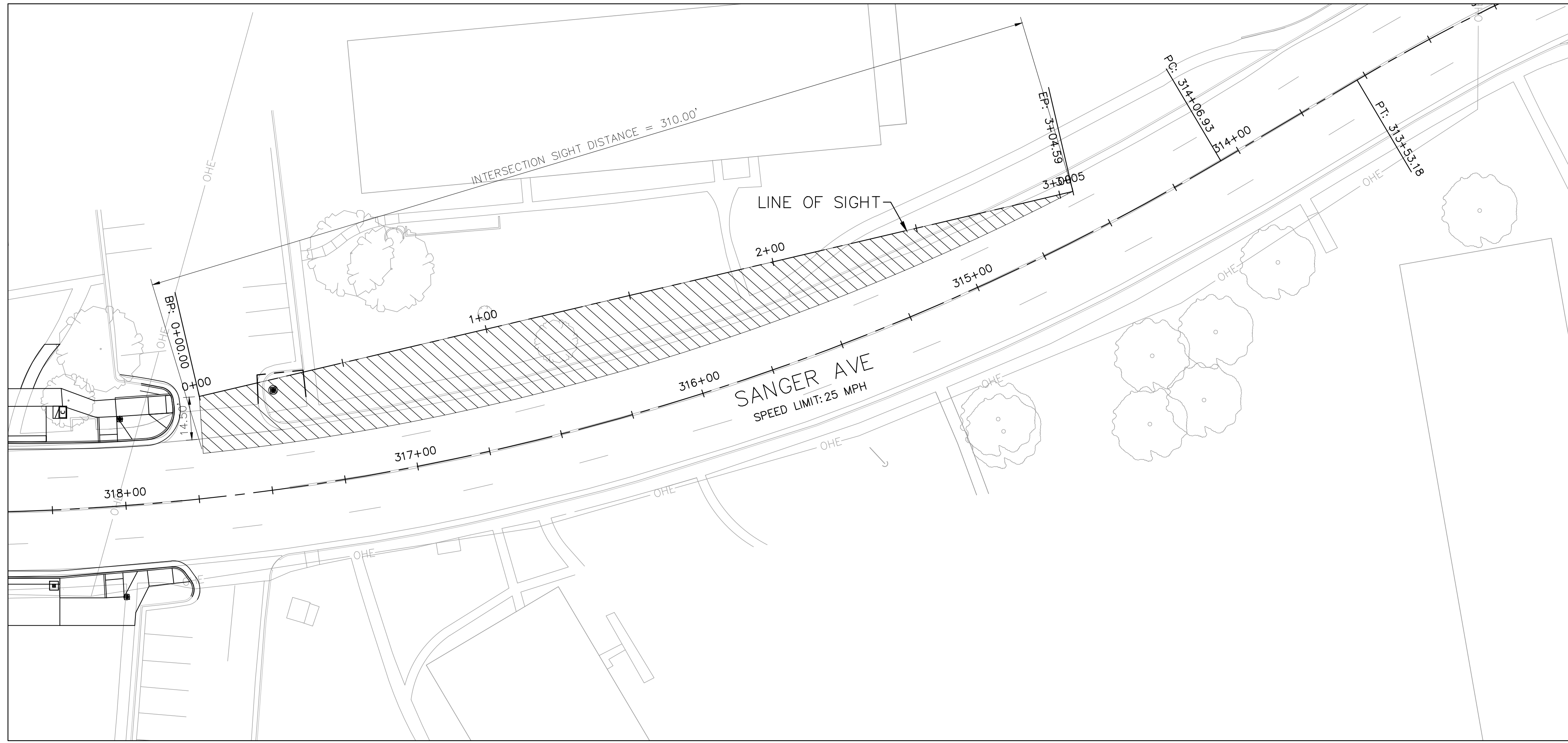
SHEET
SD-014
SCALE 1" = 25'

90% DESIGN PHASE

CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

REVISIONS	DATE	DESCRIPTION

ALEXANDRIA PROJECT NO.: 110104122	DATE OF PLAN ISSUANCE: N/A	CONSULTANT PROJECT ID: N/A
DESIGNED BY: MAT	DATE: 4/5/24	DRAWN BY: AUB
CHECKED BY: AUB	DATE: 4/5/24	APPROVED BY: AUB



WEST END TRANSITWAY – PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

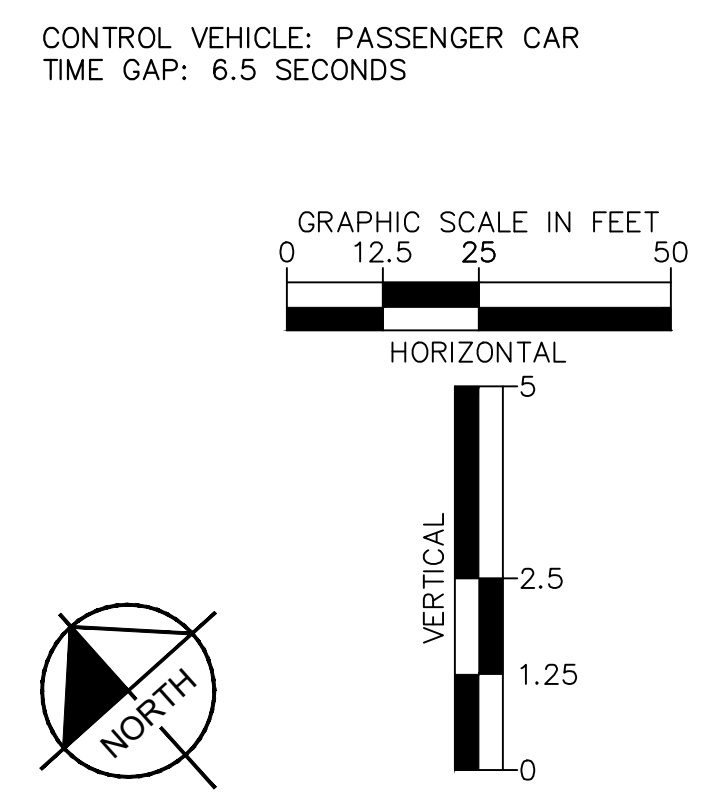
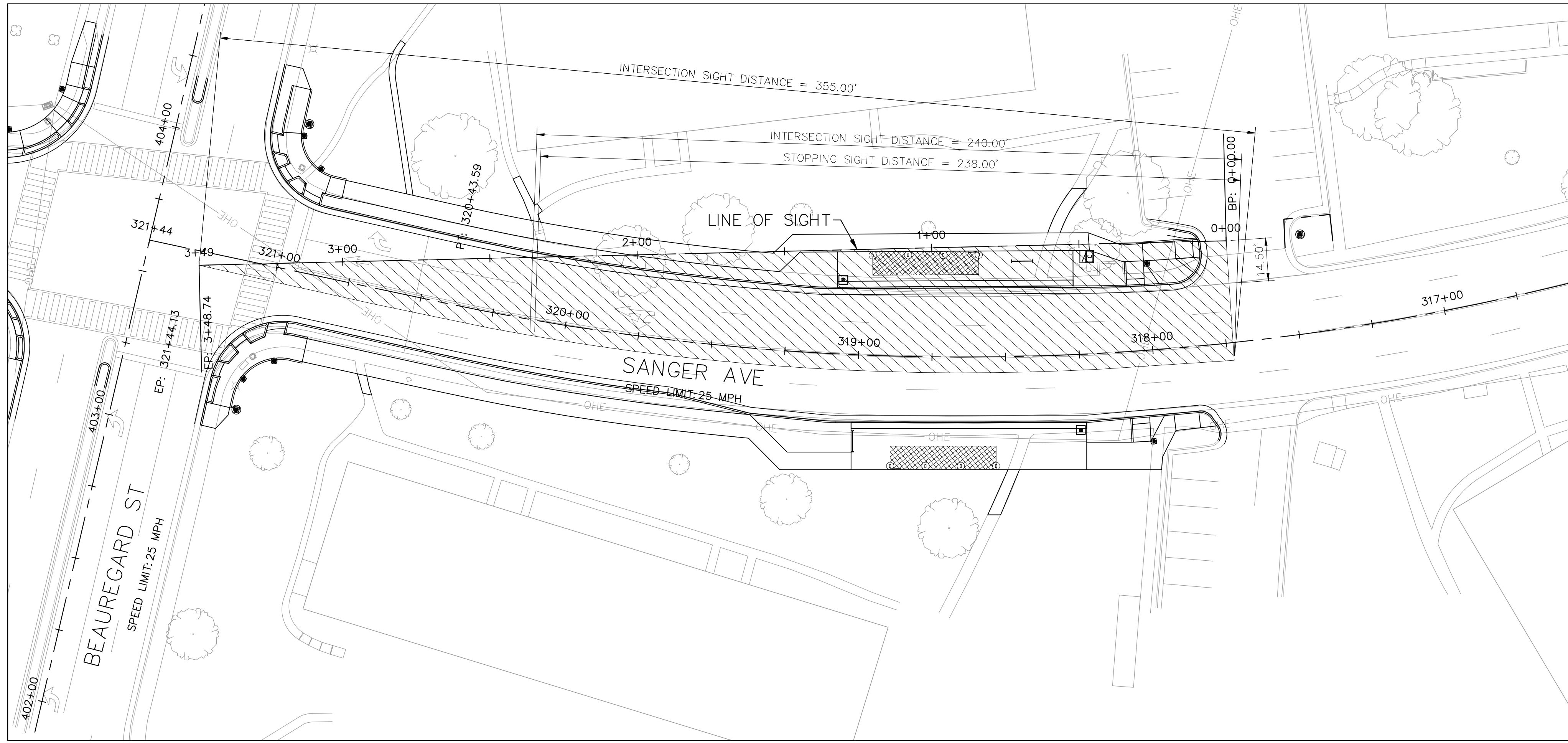
SIGHT DISTANCE EXHIBIT
– TRENT COURT RIGHT

CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

DATE	BY	REVISIONS	DESCRIPTION

ALEXANDRIA PROJECT NO.: 110104122
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DESIGNED BY: MAT DATE: 4/5/24
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CHECKED BY: EJD DATE: 4/5/24
APPROVED BY: _____ DATE: _____

SHEET
SD-015
SCALE 1" = 25'



CONTROL VEHICLE: PASSENGER CAR
TIME GAP: 6.5 SECONDS

WEST END TRANSITWAY – PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

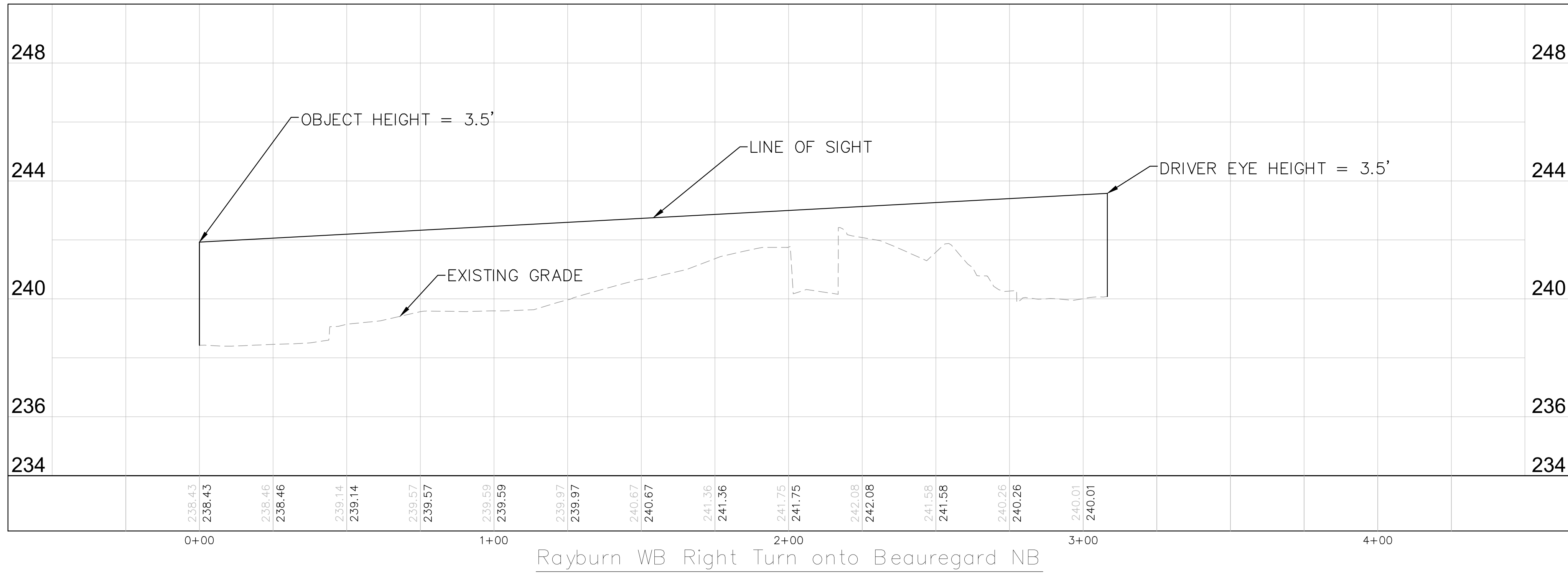
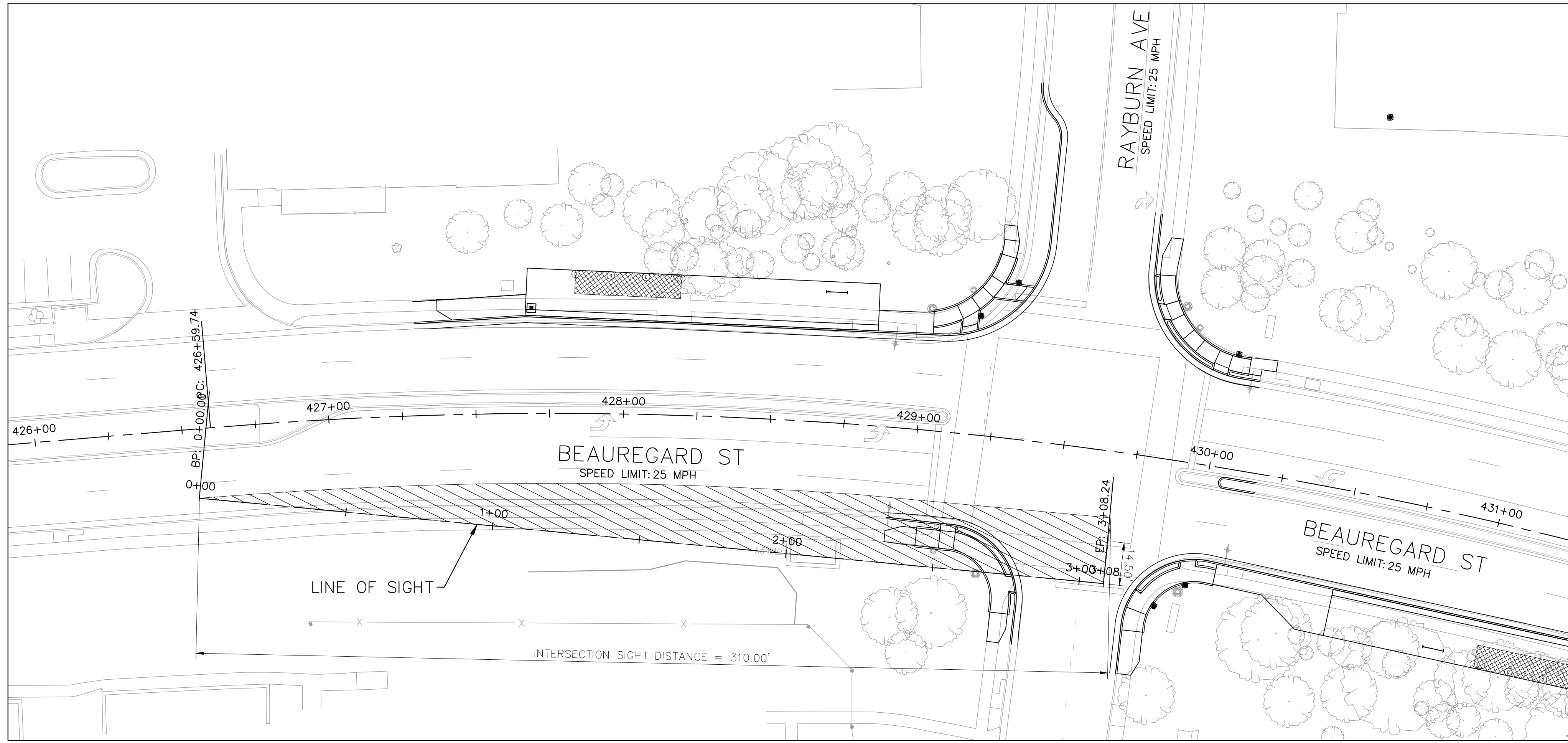
CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

SIGHT DISTANCE EXHIBIT
– TRENT COURT LEFT

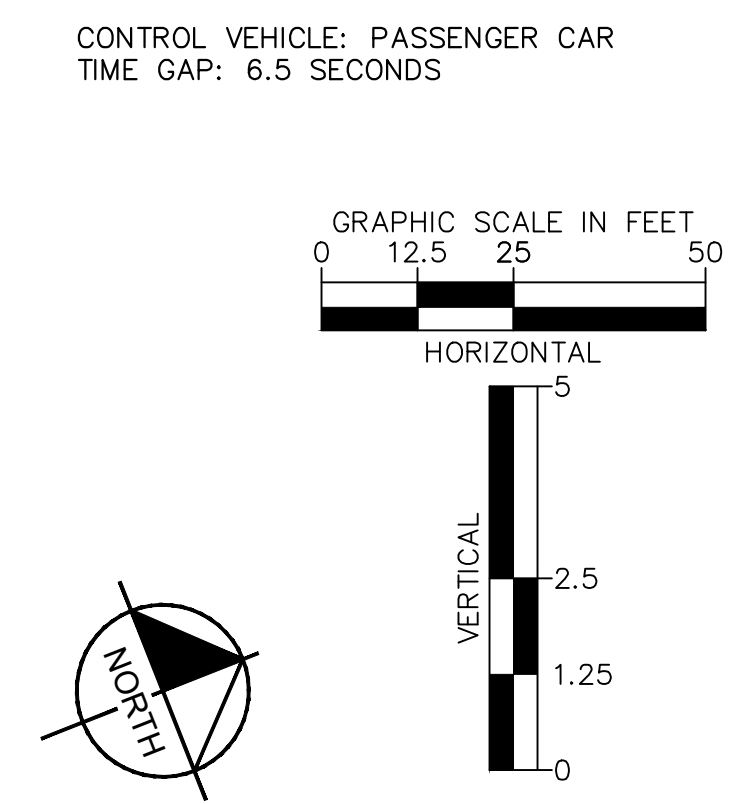
REVISIONS	DATE	BY	DESCRIPTION

ALEXANDRIA PROJECT NO.: 110104122
 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: MAT DATE: 4/5/24
 DRAWN BY: AJB DATE: 4/5/24
 CHECKED BY: EJD DATE: 4/5/24
 APPROVED BY: _____ DATE: _____

SHEET
SD-016
SCALE 1" = 25'



Rayburn WB Right Turn onto Beauregard NB

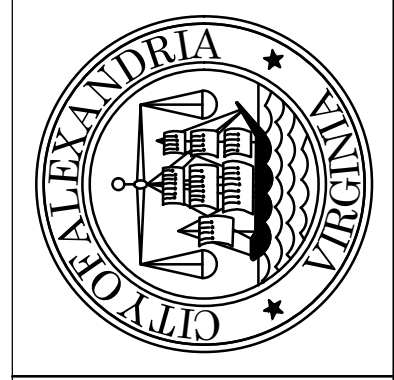


WEST END TRANSITWAY – PHASE 1 IMPROVEMENTS

SIGHT DISTANCE EXHIBIT
 – RAYBURN AVENUE WB
 RIGHT

SHEET
 SD-017
 SCALE 1" = 25'

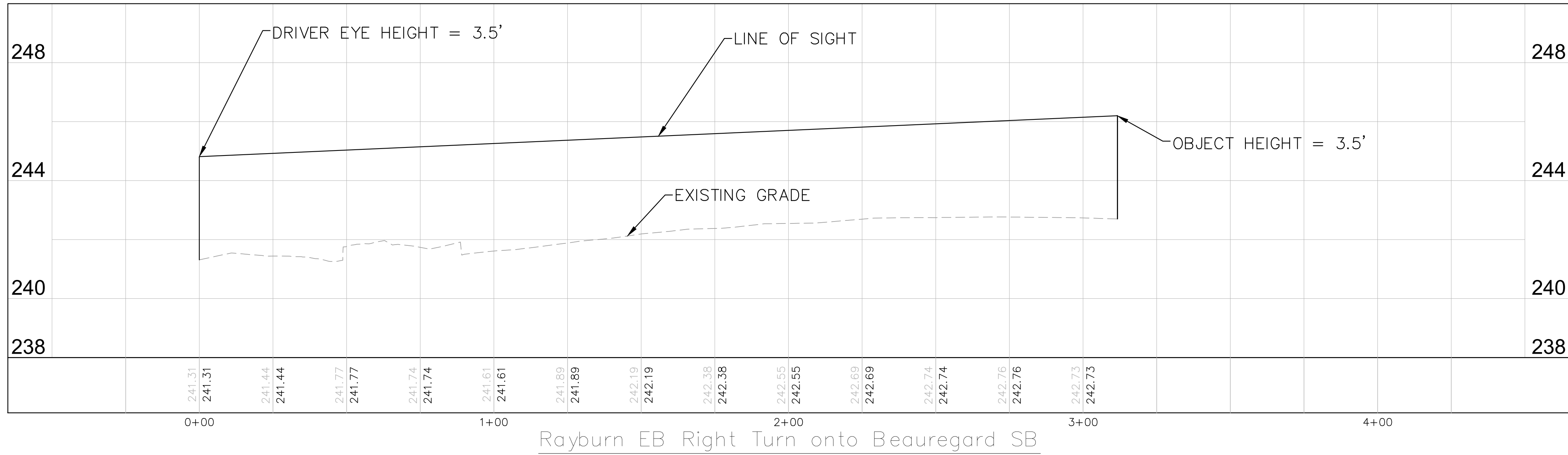
90% DESIGN PHASE



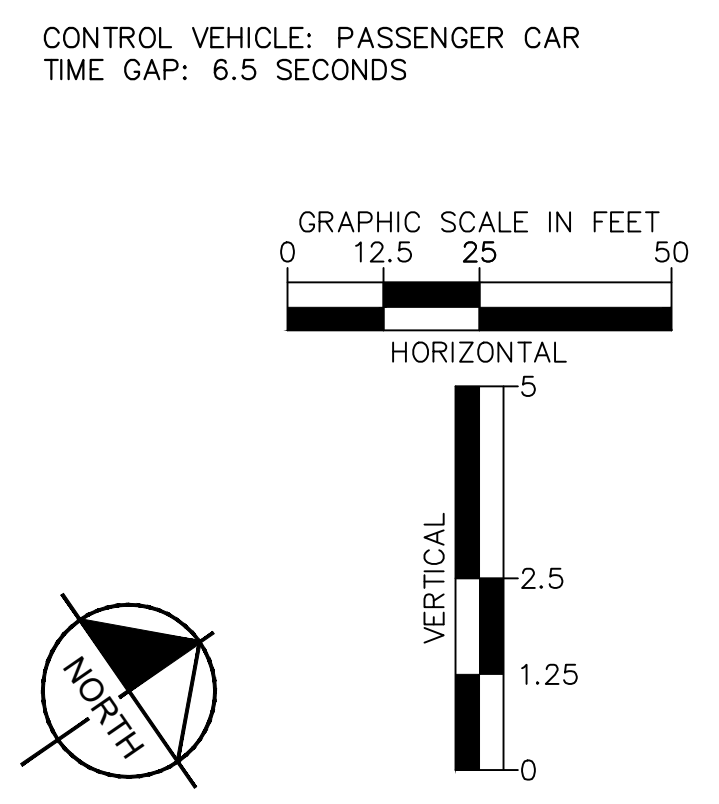
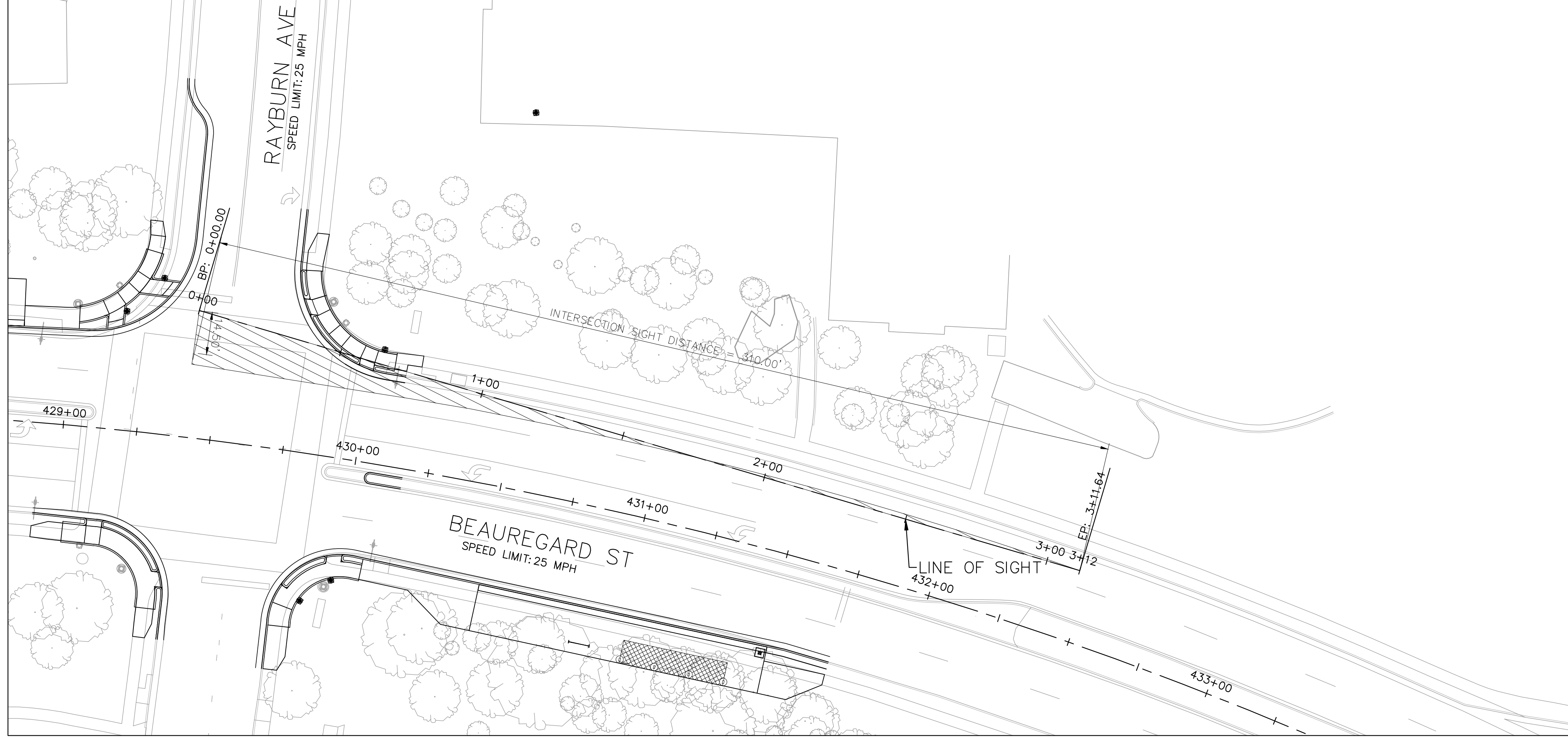
CITY OF ALEXANDRIA, VIRGINIA
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 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

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ALEXANDRIA PROJECT NO.:	110104122
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DESIGNED BY:	MAT. DATE: 4/5/24
DRAWN BY:	AJB. DATE: 4/5/24
CHECKED BY:	EJD. DATE: 4/5/24
APPROVED BY:	



Rayburn EB Right Turn onto Beauregard SB



CONTROL VEHICLE: PASSENGER CAR
TIME GAP: 6.5 SECONDS

WEST END TRANSITWAY – PHASE 1 IMPROVEMENTS

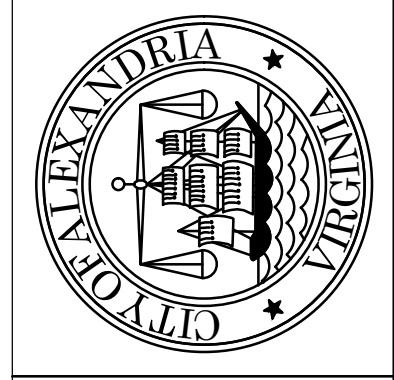
90% DESIGN PHASE

SIGHT DISTANCE EXHIBIT
– RAYBURN AVENUE EB
RIGHT

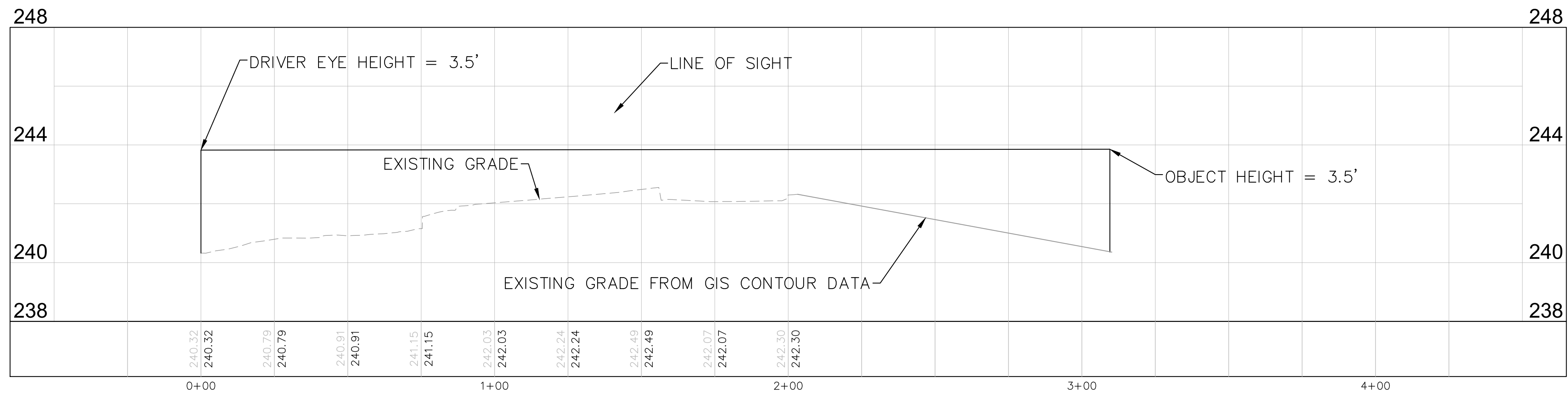
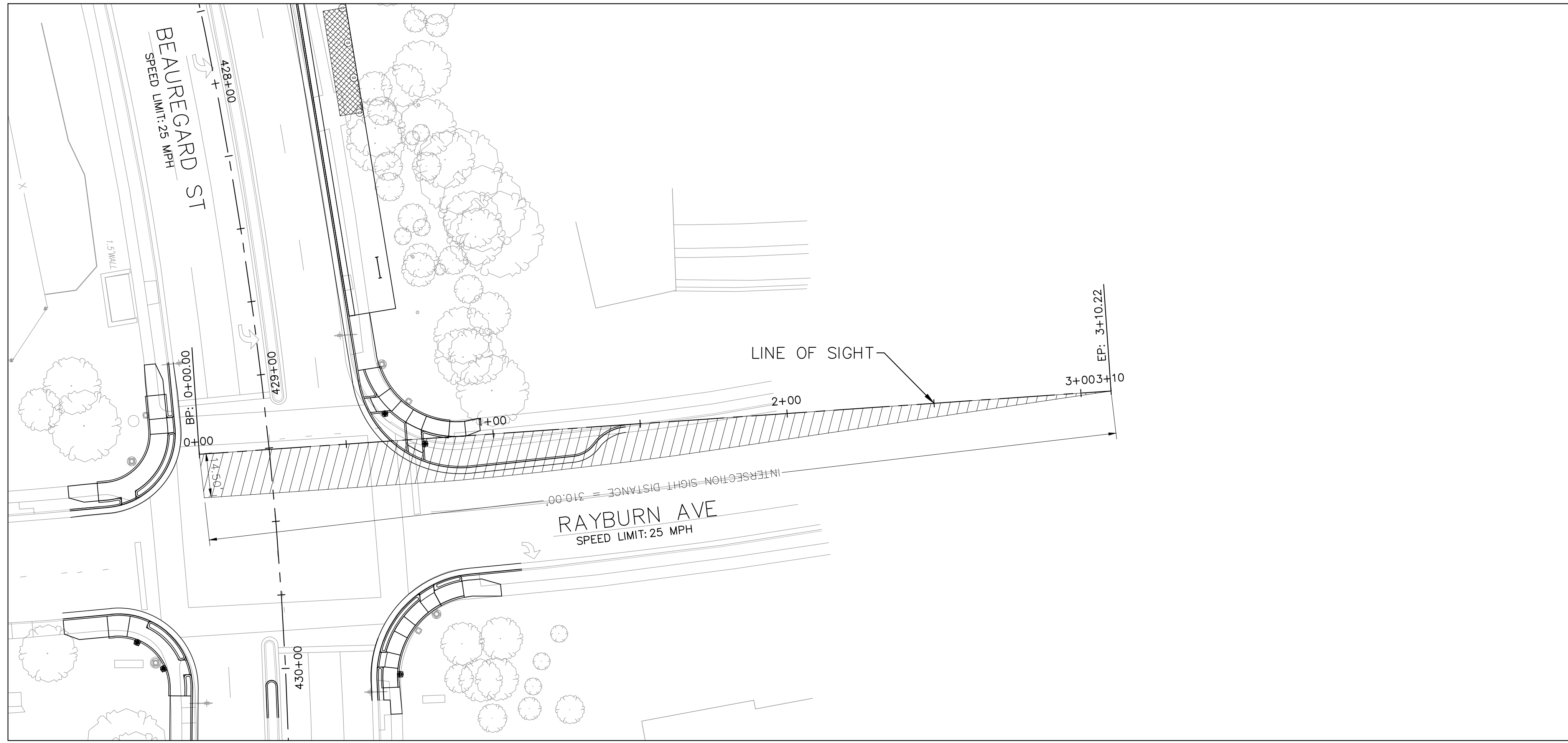
SHEET
SD-018
SCALE 1" = 25'

REVISIONS	DATE	DESCRIPTION

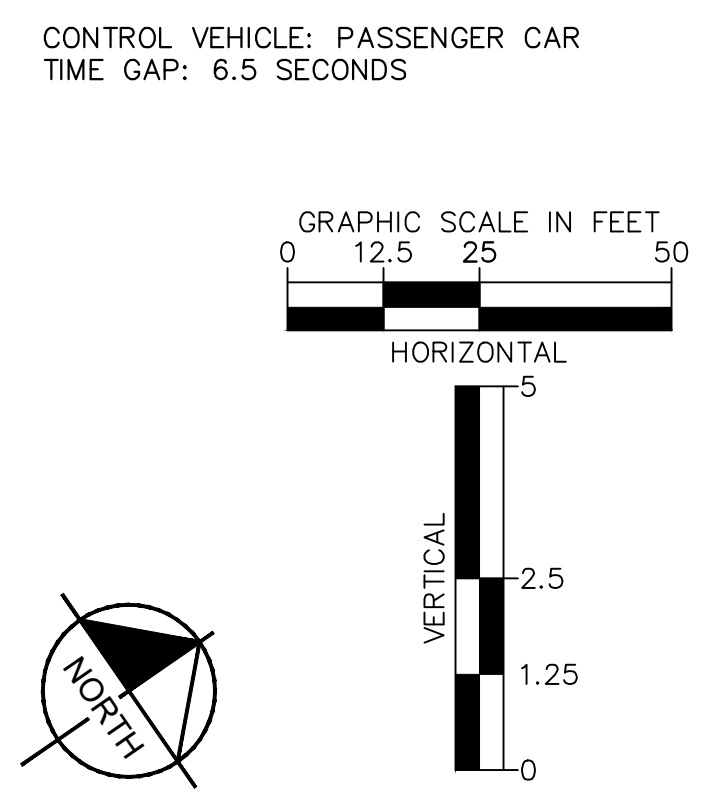
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ALEXANDRIA, VIRGINIA 22313



ALEXANDRIA PROJECT NO.: 110104122
DATE OF PLAN ISSUANCE: N/A
CONSULTANT PROJECT ID: N/A
DESIGNED BY: MAT DATE: 4/5/24
DRAWN BY: AJB DATE: 4/5/24
CHECKED BY: EJD DATE: 4/5/24
APPROVED BY: _____ DATE: _____



Beauregard NB Right Turn onto Rayburn EB



CONTROL VEHICLE: PASSENGER CAR
TIME GAP: 6.5 SECONDS

WEST END TRANSITWAY – PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

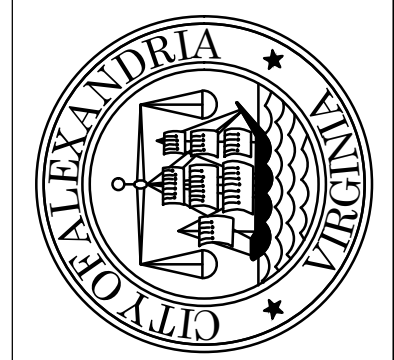
SIGHT DISTANCE EXHIBIT
– BEAUREGARD STREET
NB RIGHT

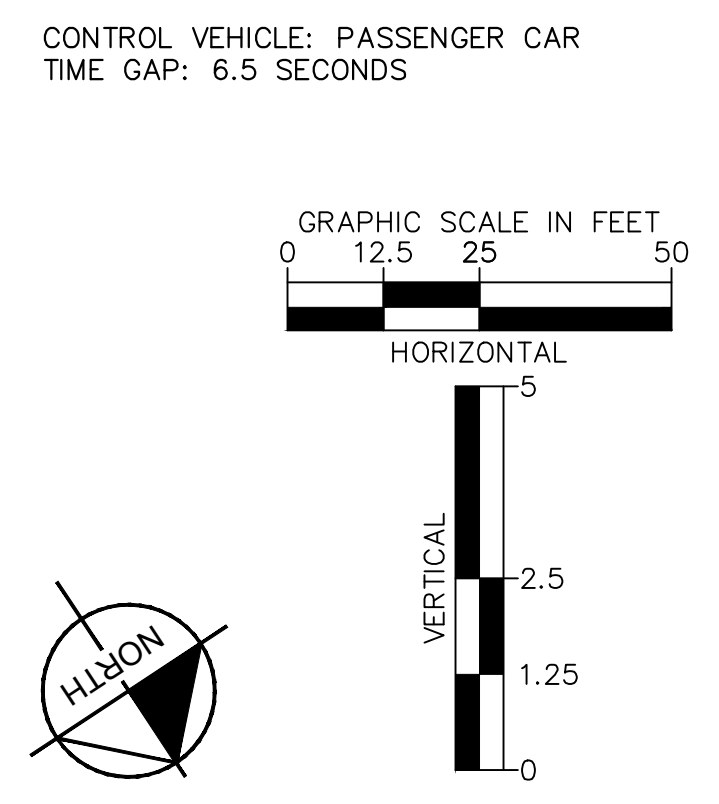
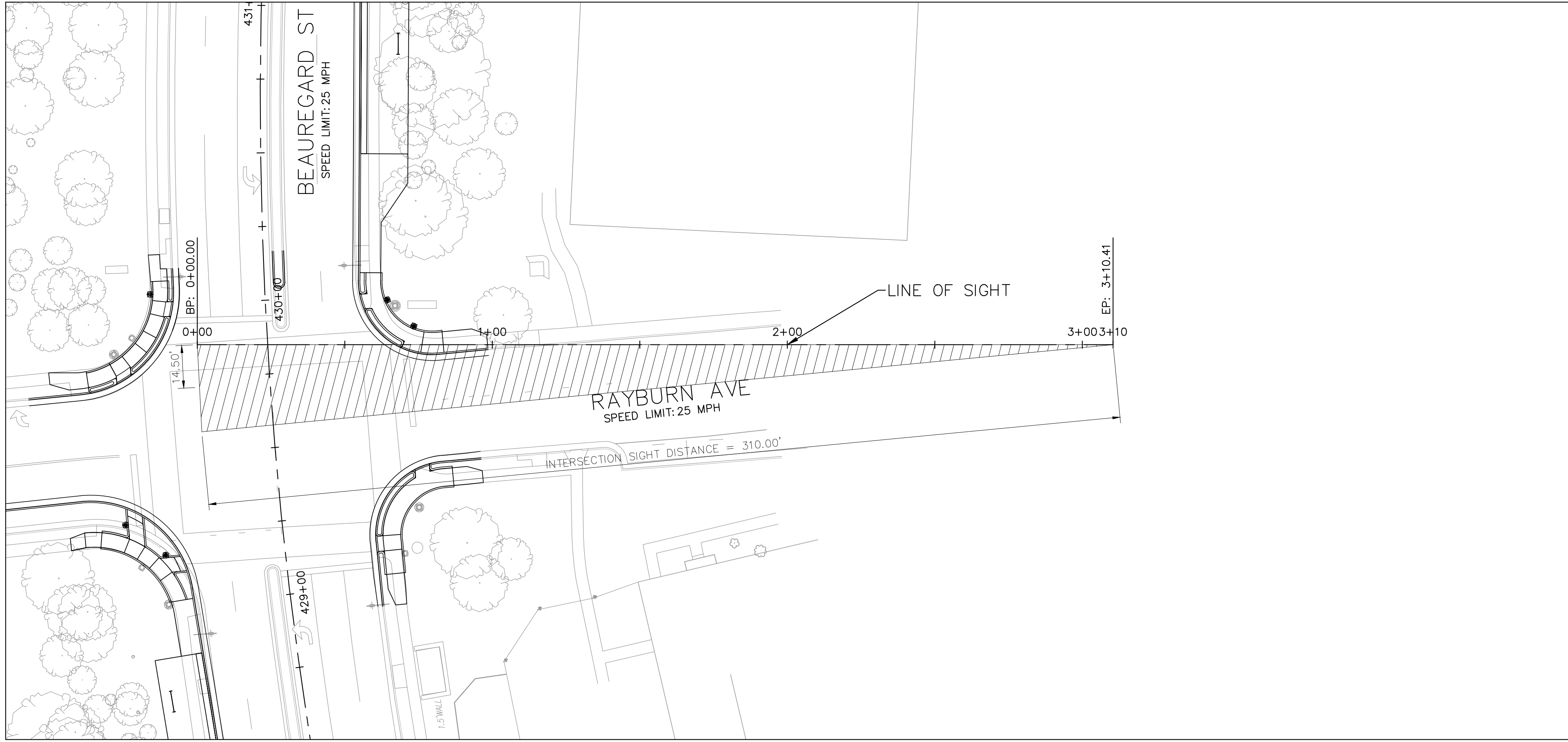
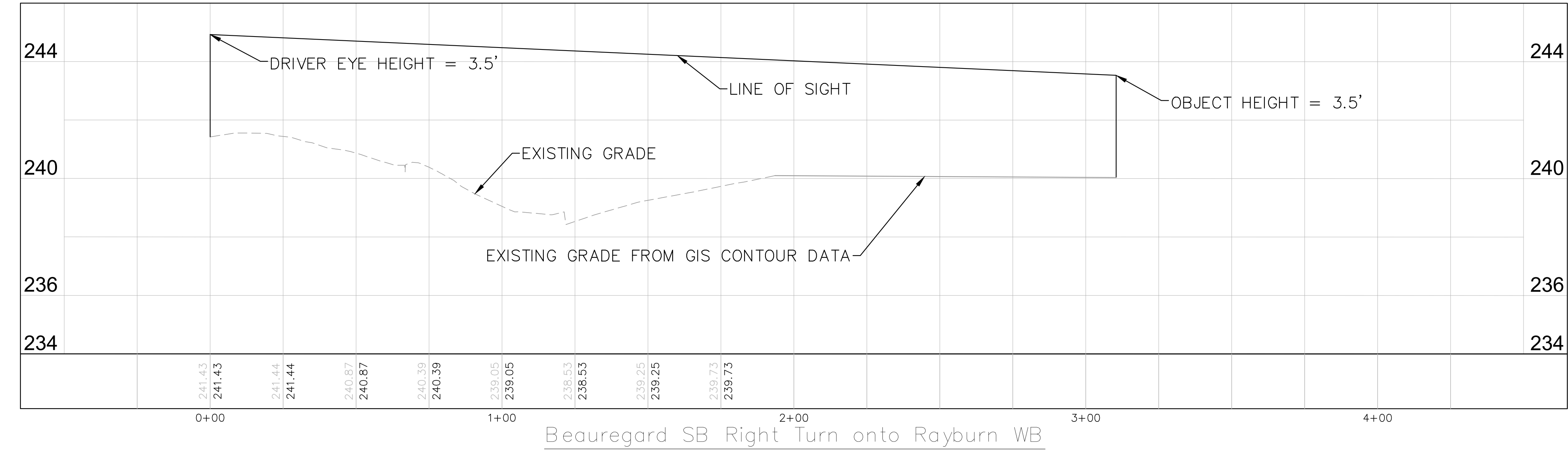
SHEET
SD-019
SCALE 1" = 25'

ALEXANDRIA PROJECT NO.:	110104122
DATE OF PLAN ISSUANCE:	N/A
CONSULTANT PROJECT ID.:	N/A
DESIGNED BY:	MAT. DATE: 4/5/24
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CHECKED BY:	EJD. DATE: 4/5/24
APPROVED BY:	DATE:

REVISIONS	DATE	DESCRIPTION

CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313





WEST END TRANSITWAY – PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

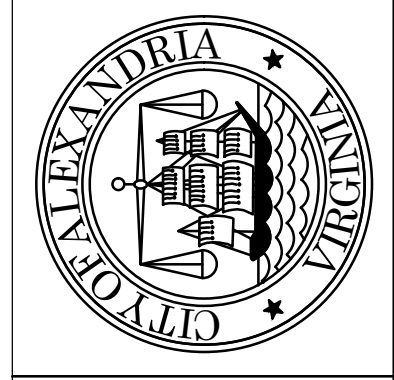
SIGHT DISTANCE EXHIBIT
 – BEAUREGARD STREET
 SB RIGHT

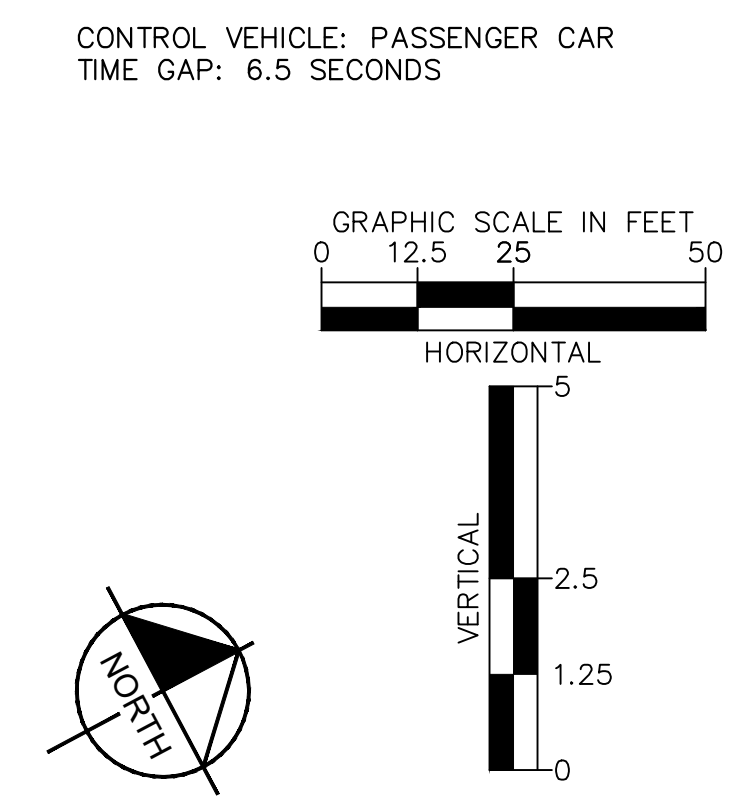
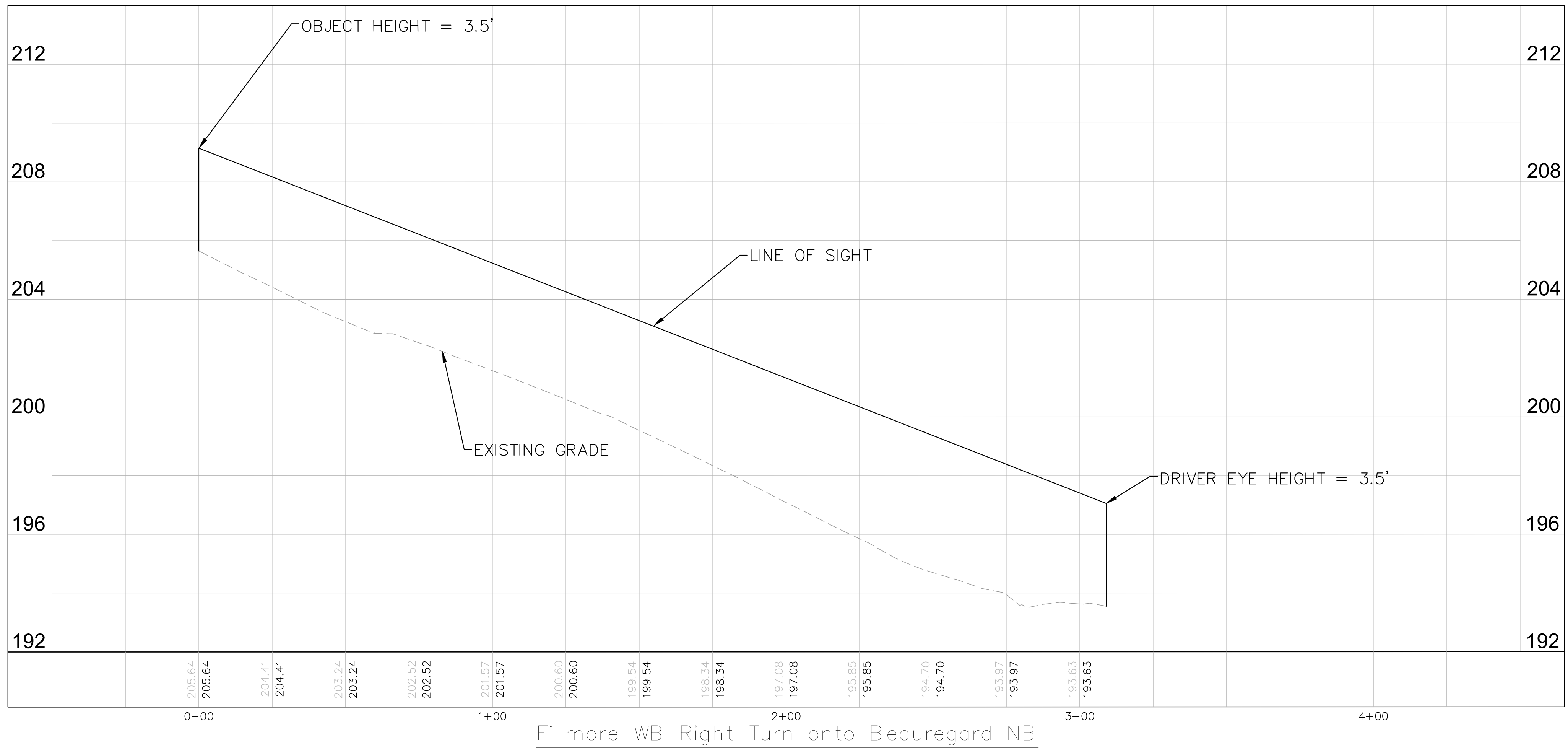
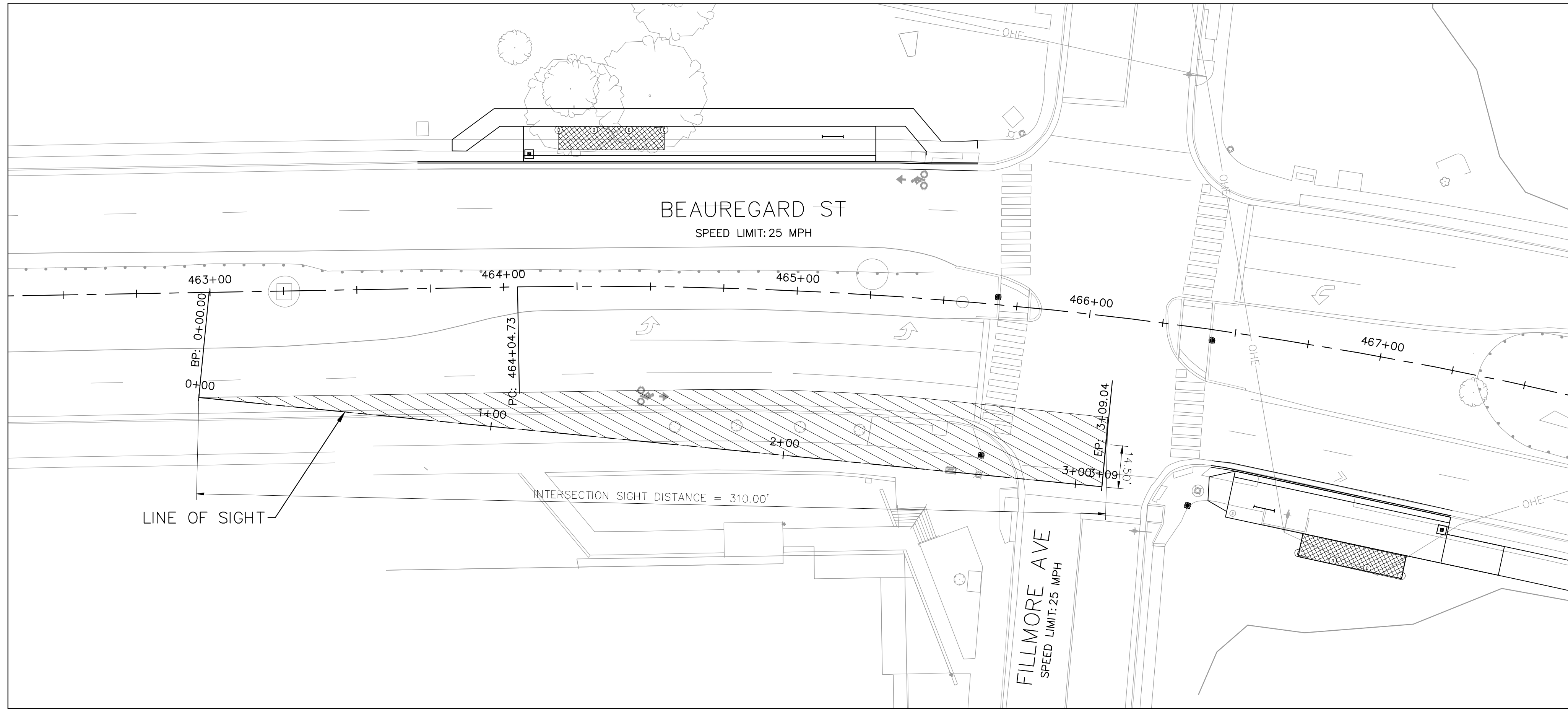
SHEET
 SD-020
 SCALE 1" = 25'

REVISIONS	DATE	BY	DESCRIPTION

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CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313





WEST END TRANSITWAY – PHASE 1 IMPROVEMENTS



CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

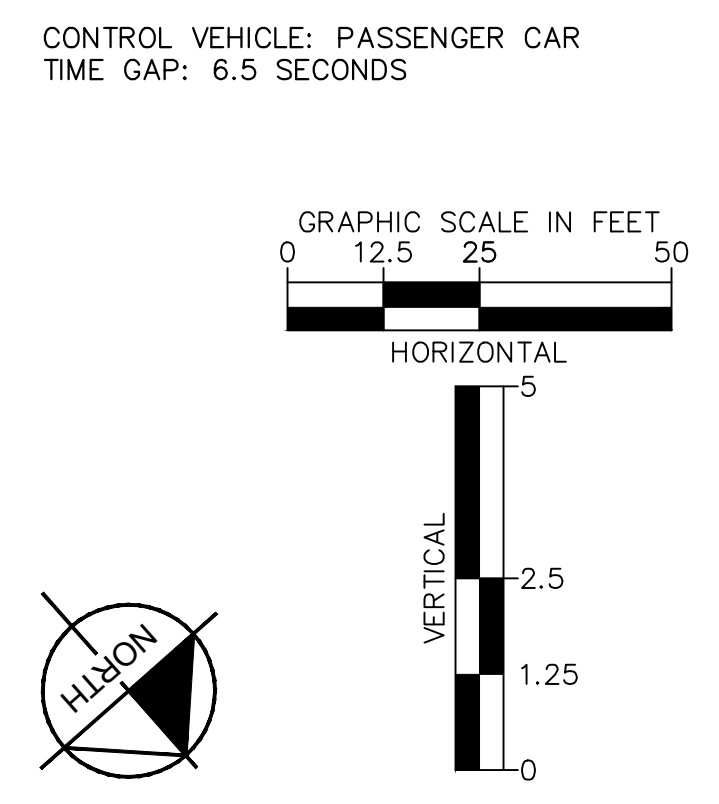
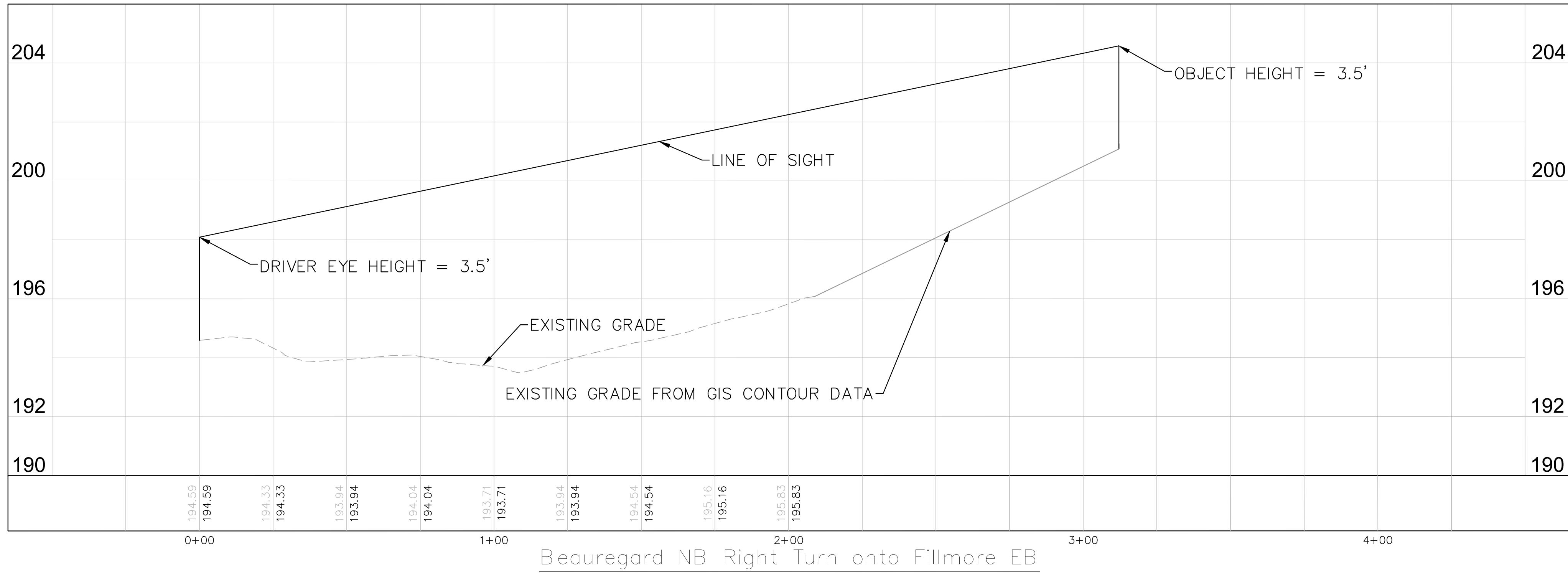
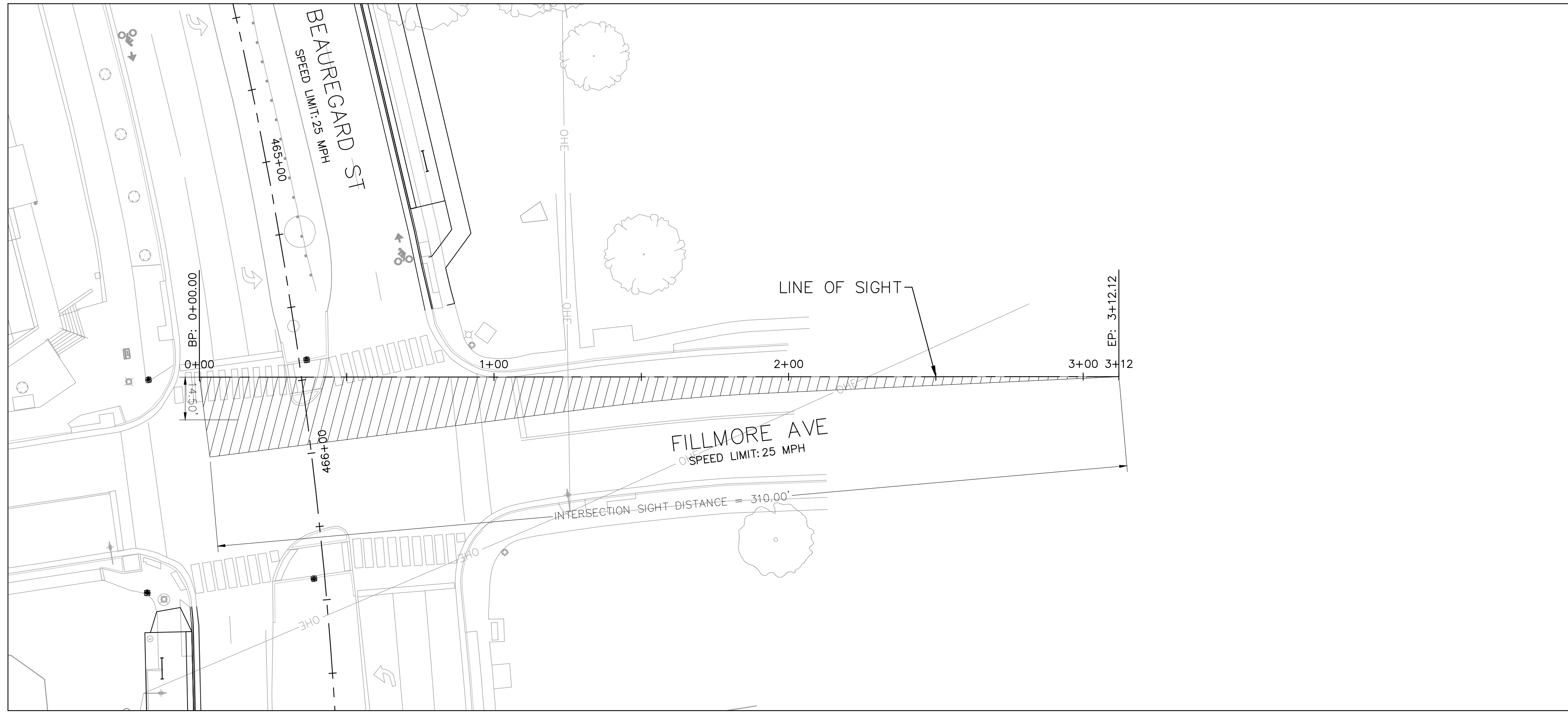
REVISIONS	
DATE	DESCRIPTION

ALEXANDRIA PROJECT NO.: 110104122
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SIGHT DISTANCE EXHIBIT
– FILLMORE AVENUE WB
RIGHT

SHEET
SD-021
SCALE 1" = 25'

90% DESIGN PHASE



WEST END TRANSITWAY – PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

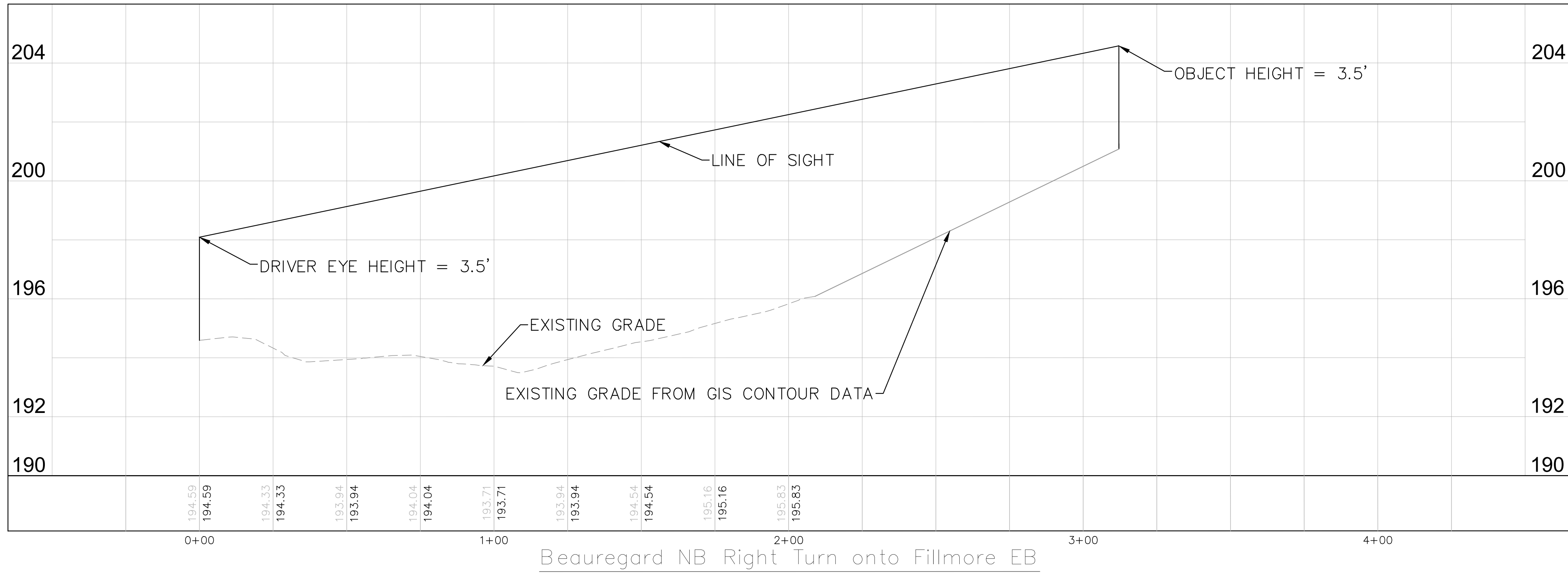
CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

REVISIONS	DATE	DESCRIPTION

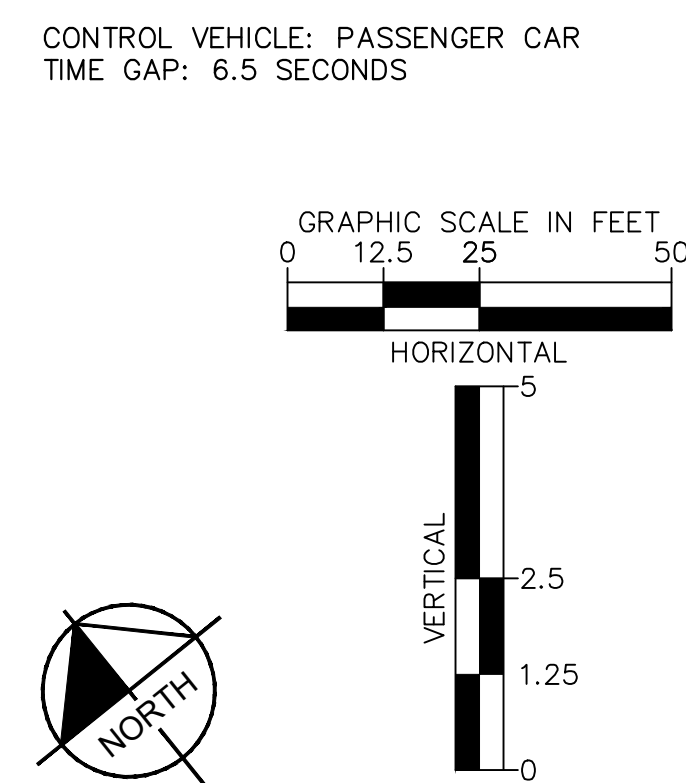
ALEXANDRIA PROJECT NO.: 110104122
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DESIGNED BY: MAT DATE: 4/5/24
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SIGHT DISTANCE EXHIBIT
– BEAUREGARD STREET
NB RIGHT

SHEET
SD-022
SCALE 1" = 25'



Beaugard NB Right Turn onto Fillmore EB



CONTROL VEHICLE: PASSENGER CAR
TIME GAP: 6.5 SECONDS

WEST END TRANSITWAY – PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

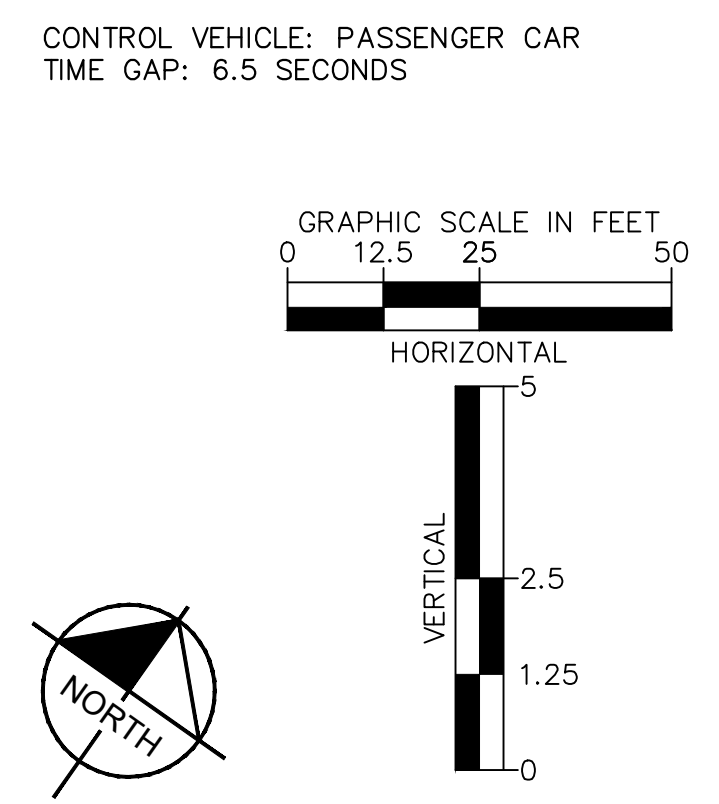
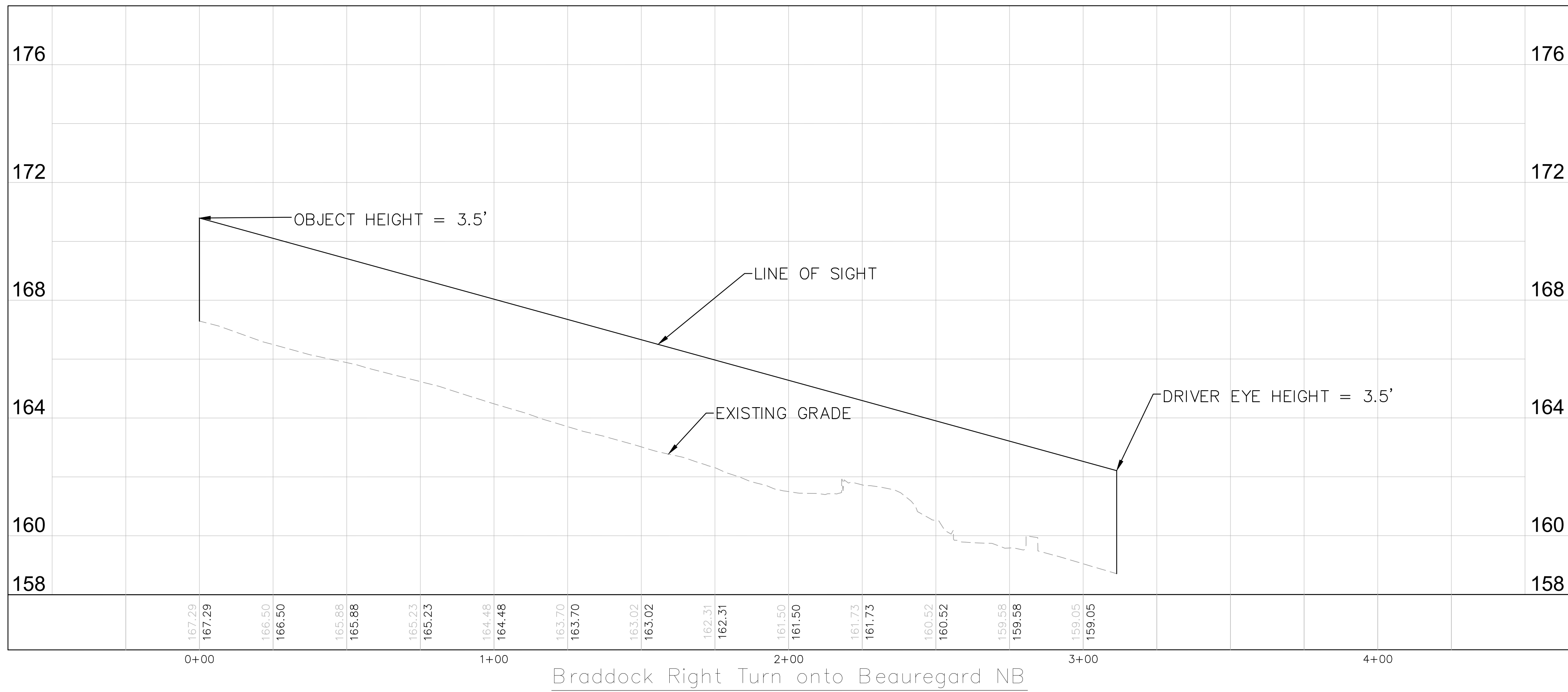
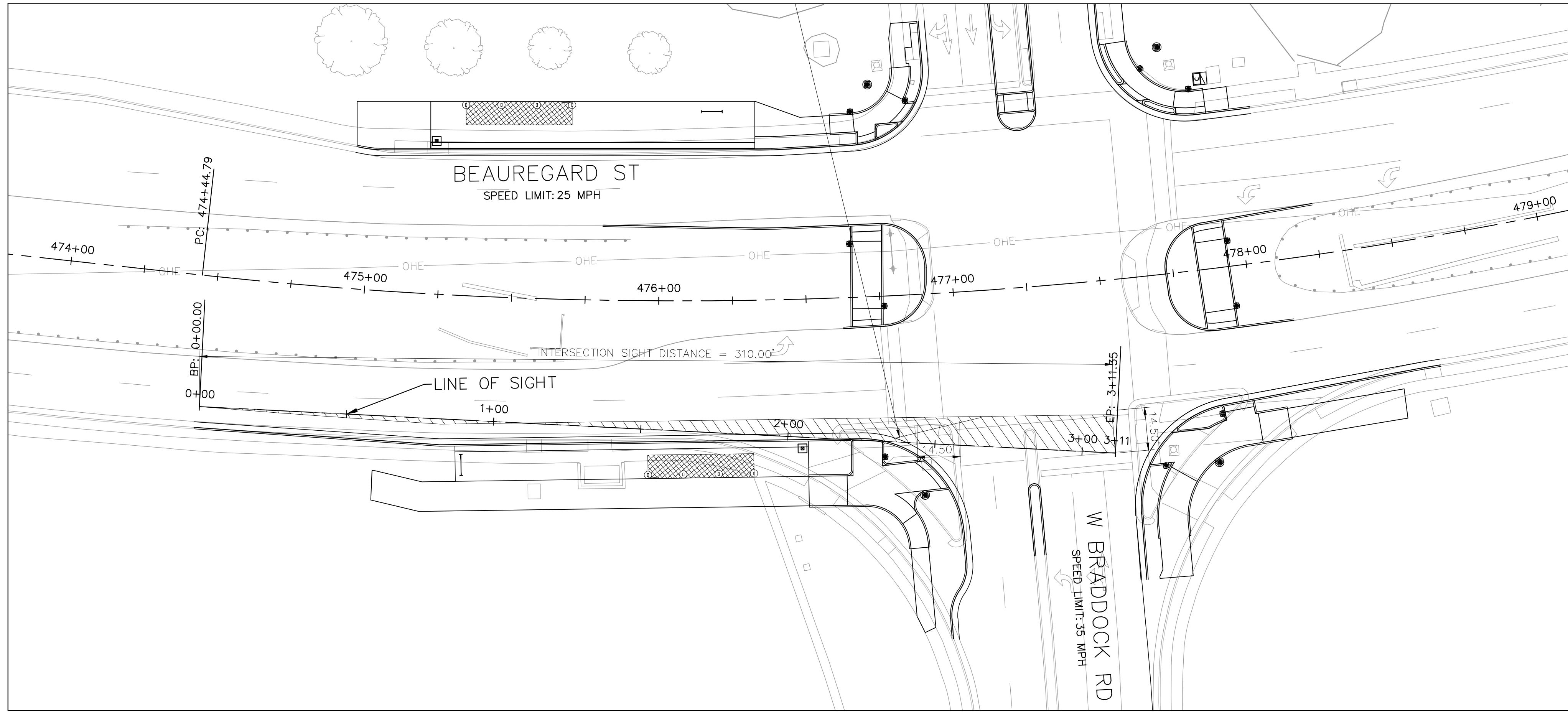
CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

REVISIONS	DATE	DESCRIPTION

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SIGHT DISTANCE EXHIBIT
– BEAUGARD STREET
SB RIGHT

SHEET
SD-023
SCALE 1" = 25'



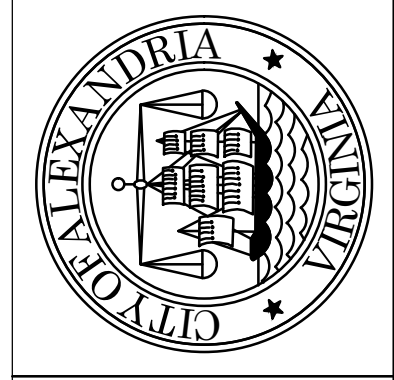
CONTROL VEHICLE: PASSENGER CAR
TIME GAP: 6.5 SECONDS

WEST END TRANSITWAY – PHASE 1 IMPROVEMENTS

SIGHT DISTANCE EXHIBIT
– BRADDOCK ROAD
RIGHT

SHEET
SD-024
SCALE 1" = 25'

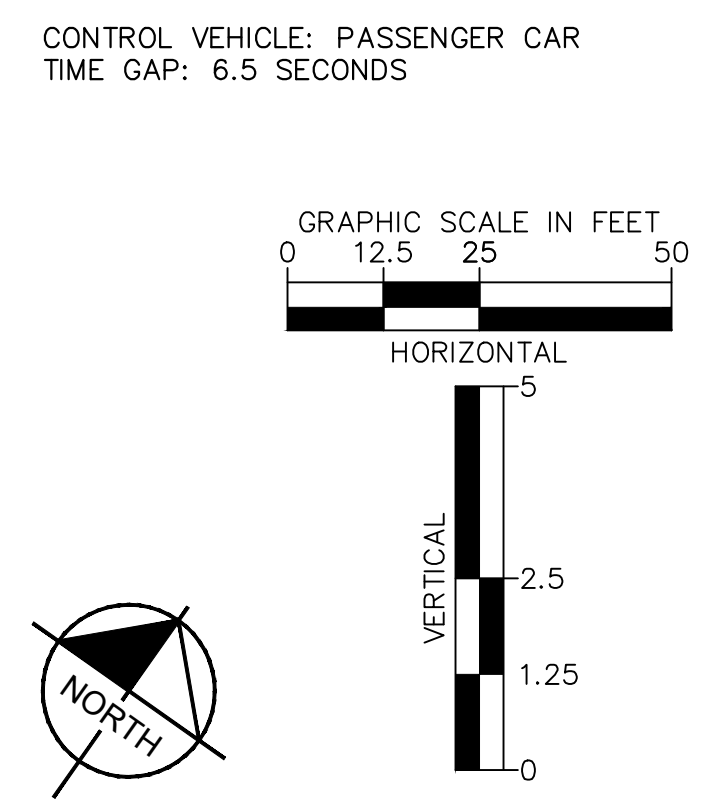
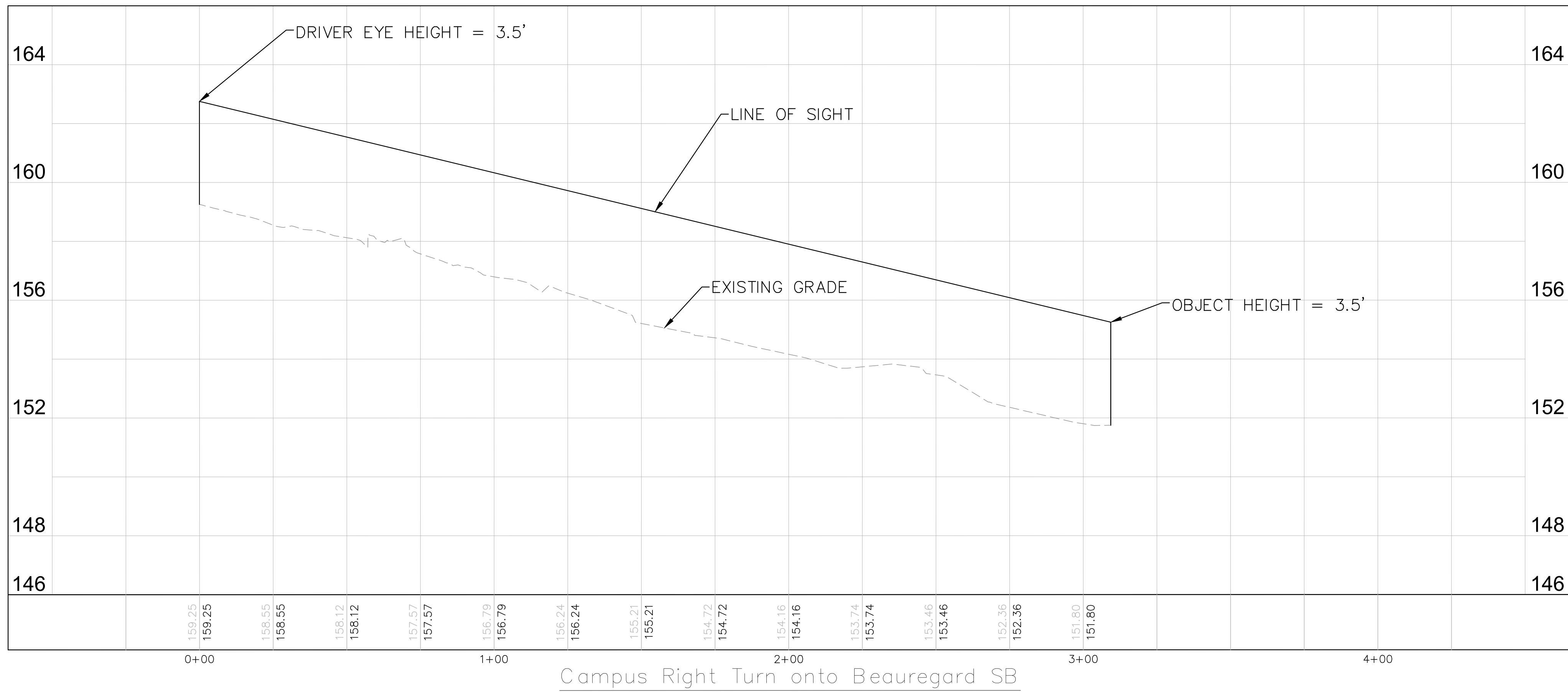
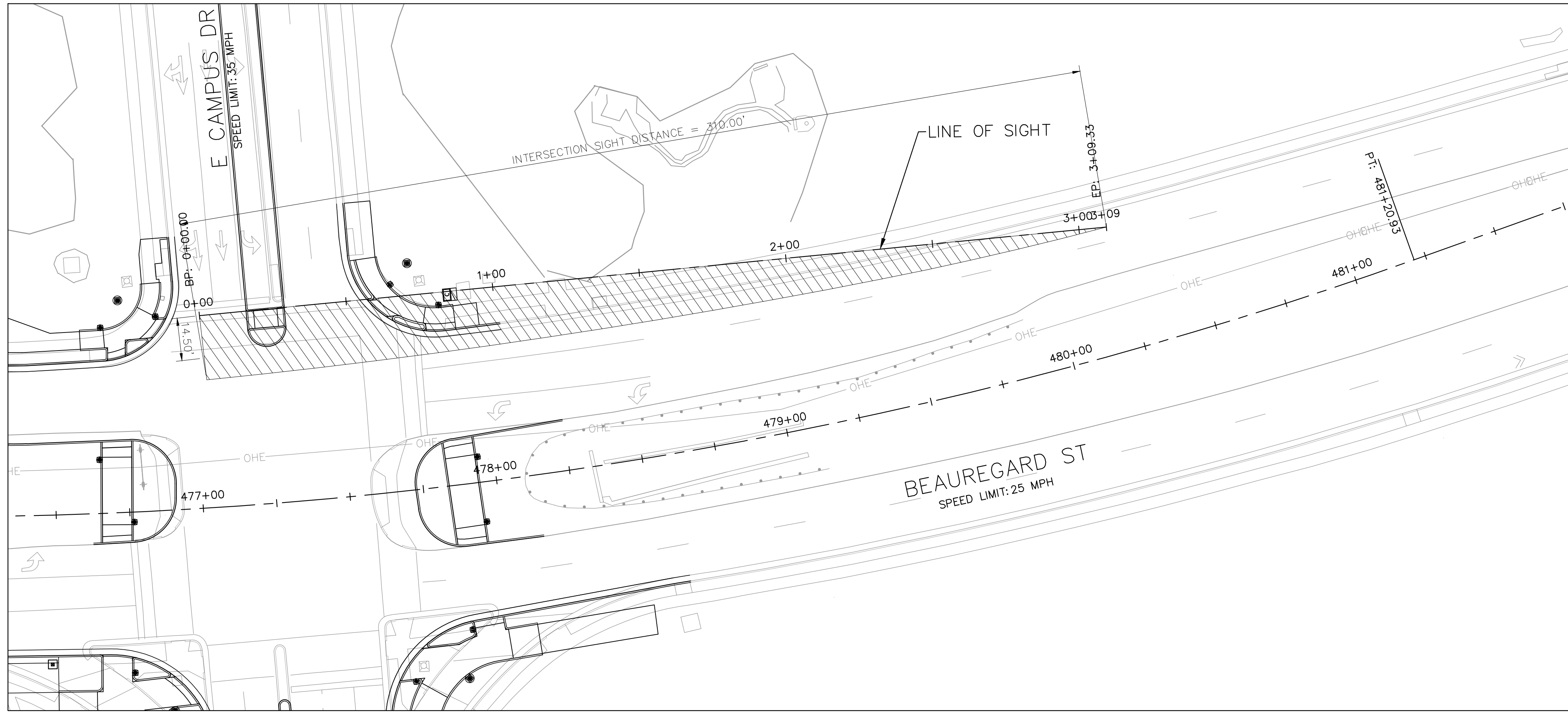
90% DESIGN PHASE



CITY OF ALEXANDRIA, VIRGINIA
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301 KING STREET
ALEXANDRIA, VIRGINIA 22313

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CHECKED BY: EJD DATE: 4/5/24
APPROVED BY: _____ DATE: _____



CONTROL VEHICLE: PASSENGER CAR
TIME GAP: 6.5 SECONDS

WEST END TRANSITWAY – PHASE 1 IMPROVEMENTS 90% DESIGN PHASE



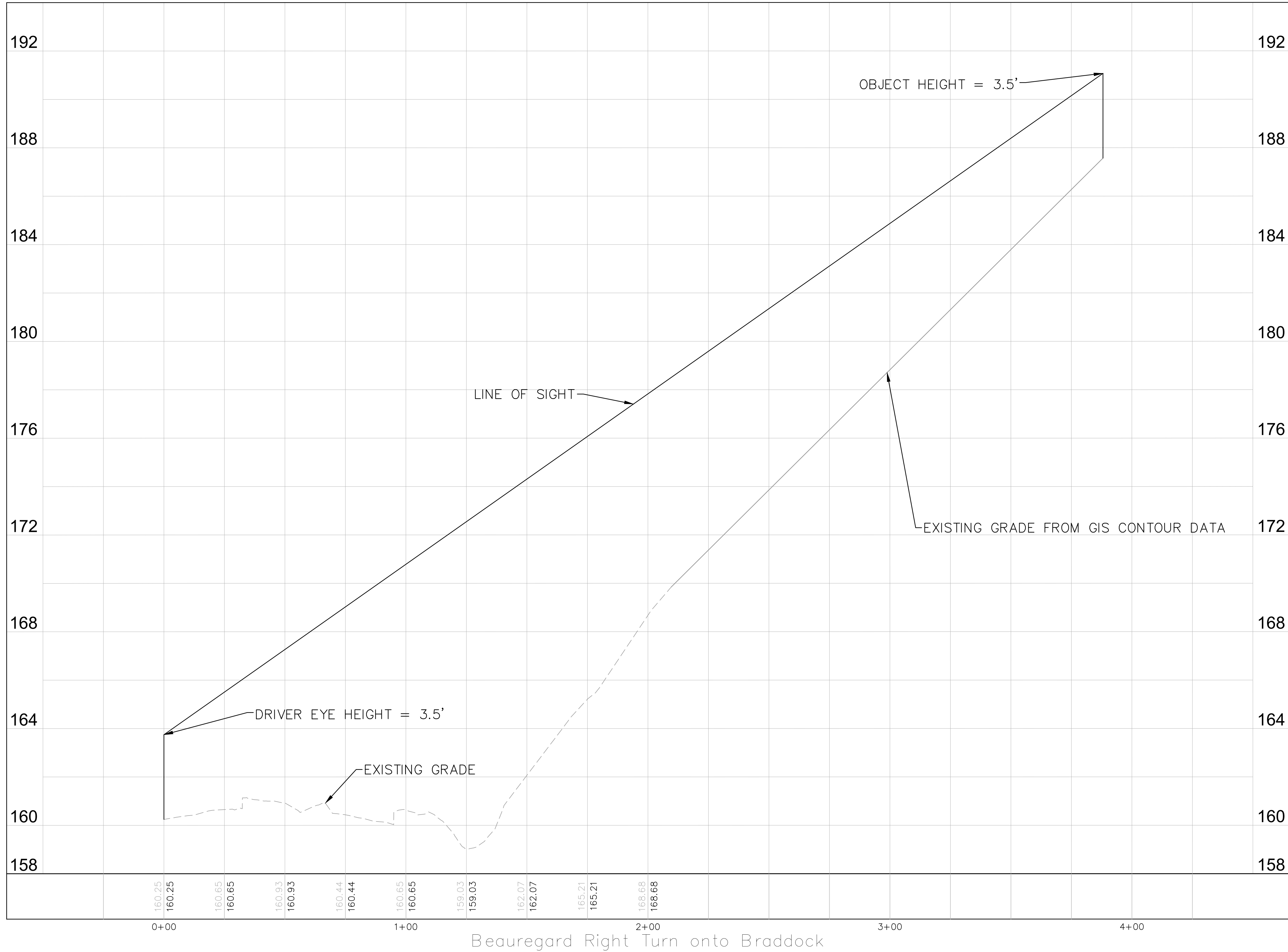
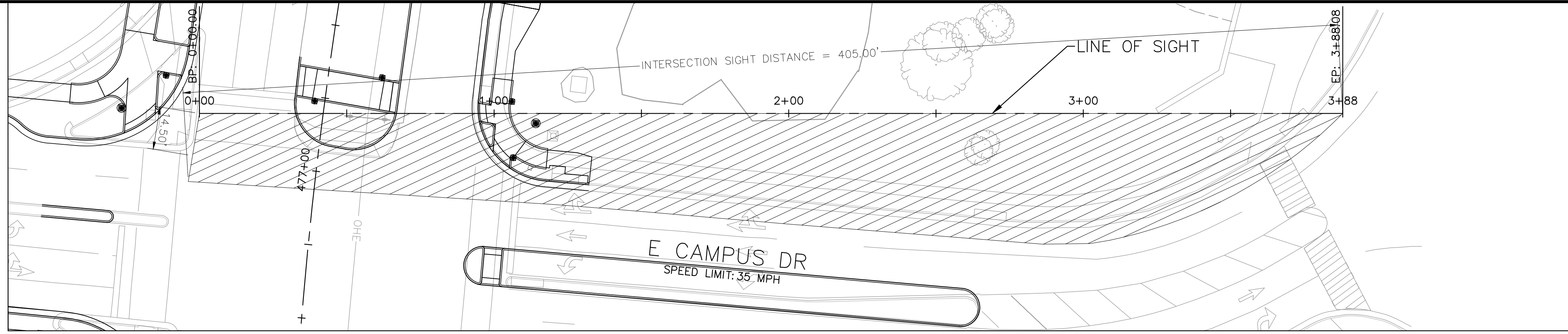
CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

REVISIONS	DESCRIPTION
DATE	BY

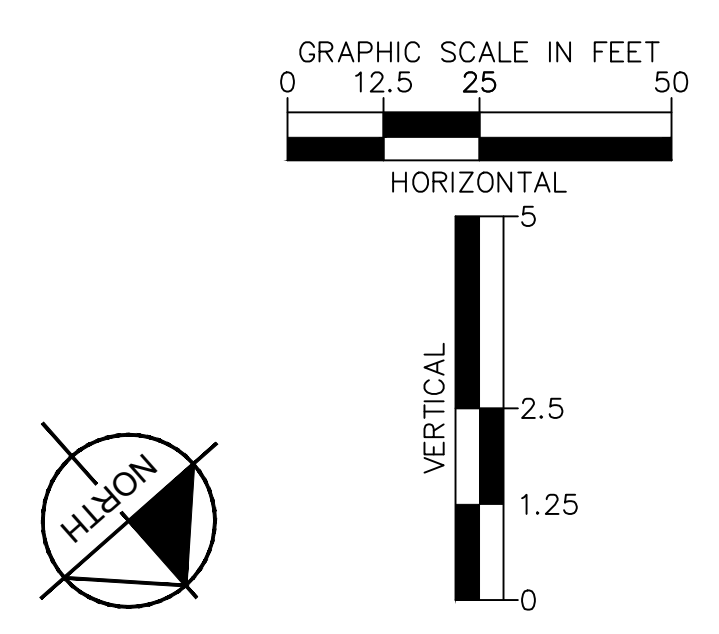
ALEXANDRIA PROJECT NO.: 110104122	DATE OF PLAN ISSUANCE: N/A
CONSULTANT PROJECT ID: N/A	DESIGNED BY: MAT DATE: 4/5/24
DRAWN BY: AUB DATE: 4/5/24	CHECKED BY: EJD DATE: 4/5/24
APPROVED BY: _____	DATE: _____

SIGHT DISTANCE EXHIBIT
– CAMPUS DRIVE RIGHT

SHEET
SD-025
SCALE 1" = 25'



CONTROL VEHICLE: PASSENGER CAR
TIME GAP: 6.5 SECONDS



WEST END TRANSITWAY – PHASE 1 IMPROVEMENTS 90% DESIGN PHASE



CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

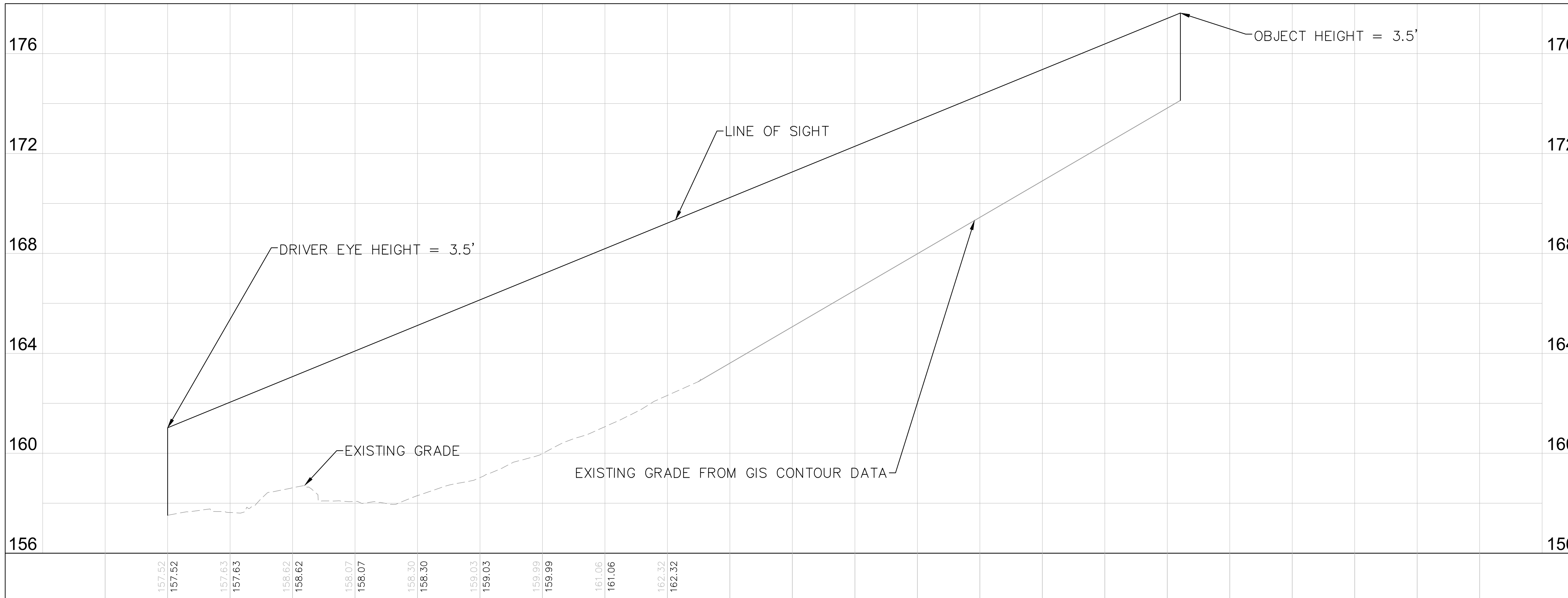
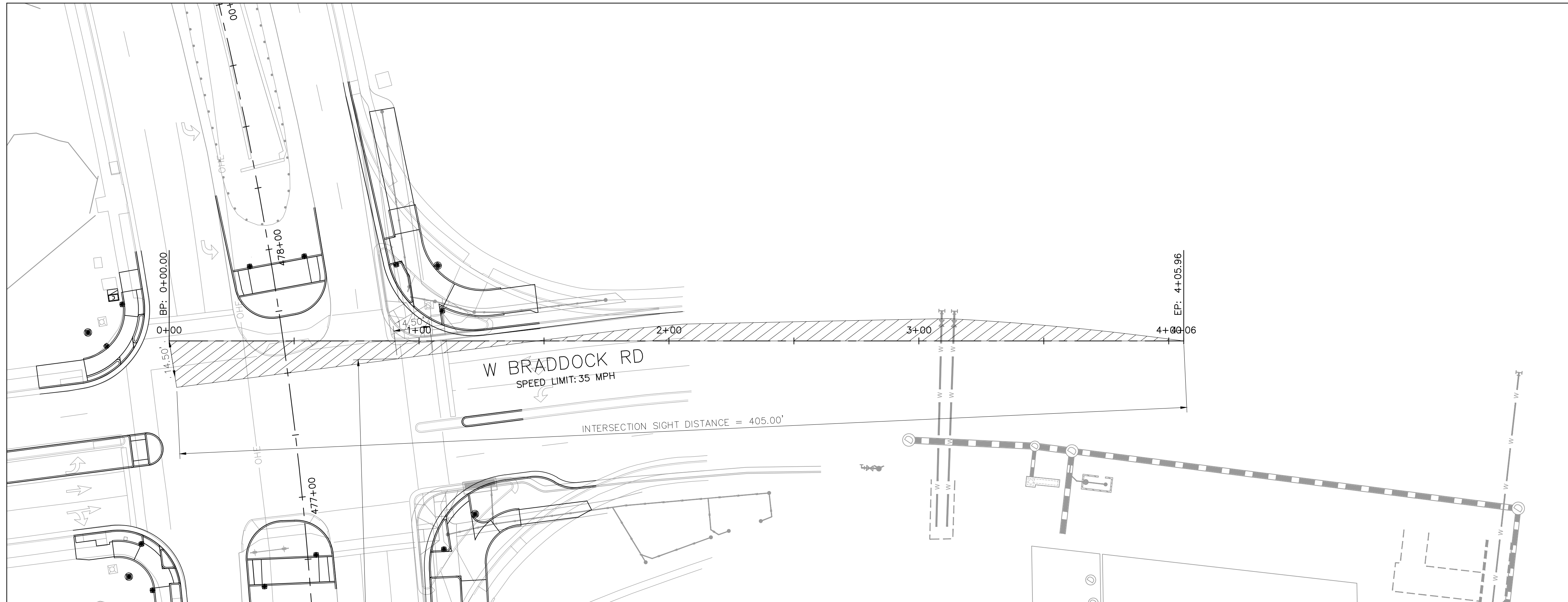
REVISIONS	DESCRIPTION
BY	
DATE	

ALEXANDRIA PROJECT NO.: 110104122	
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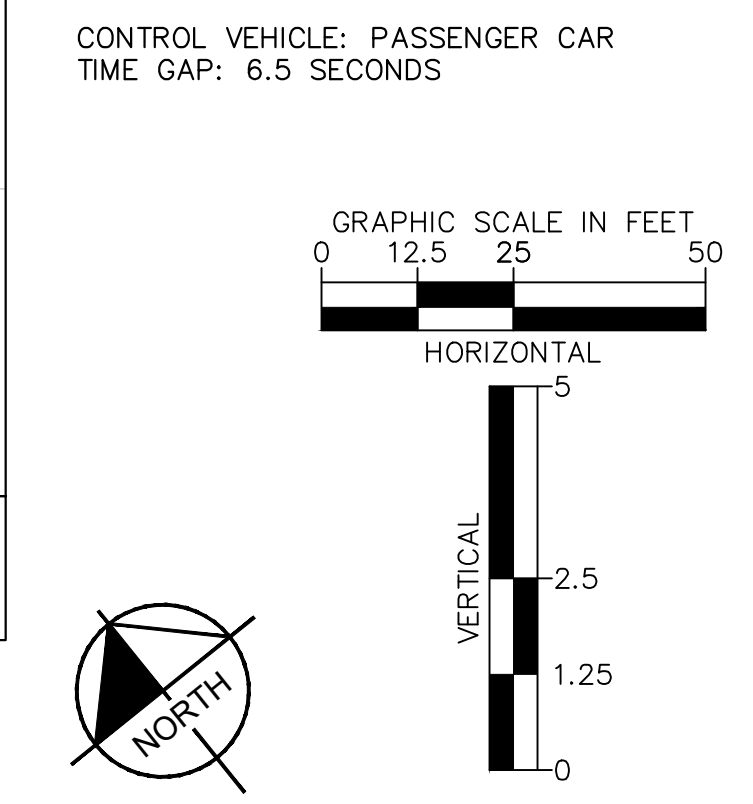
SIGHT DISTANCE EXHIBIT
– BEAUREGARD STREET
NB RIGHT

SHEET
SD-026
SCALE 1" = 25'

Beaugard Right Turn onto Braddock



Beaugard Right Turn onto Campus



CONTROL VEHICLE: PASSENGER CAR
TIME GAP: 6.5 SECONDS

WEST END TRANSITWAY – PHASE 1 IMPROVEMENTS

SIGHT DISTANCE EXHIBIT
– BEAUGARD STREET
SB RIGHT

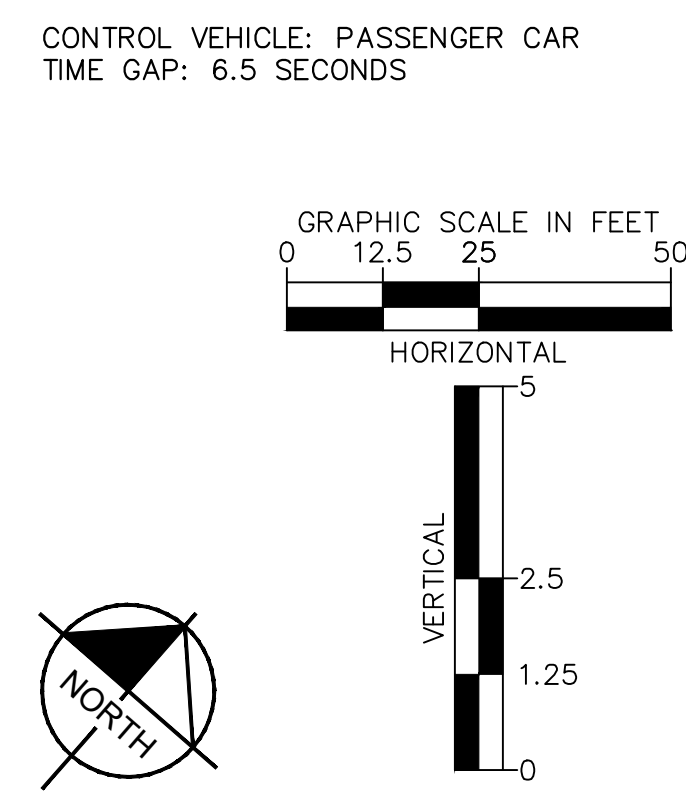
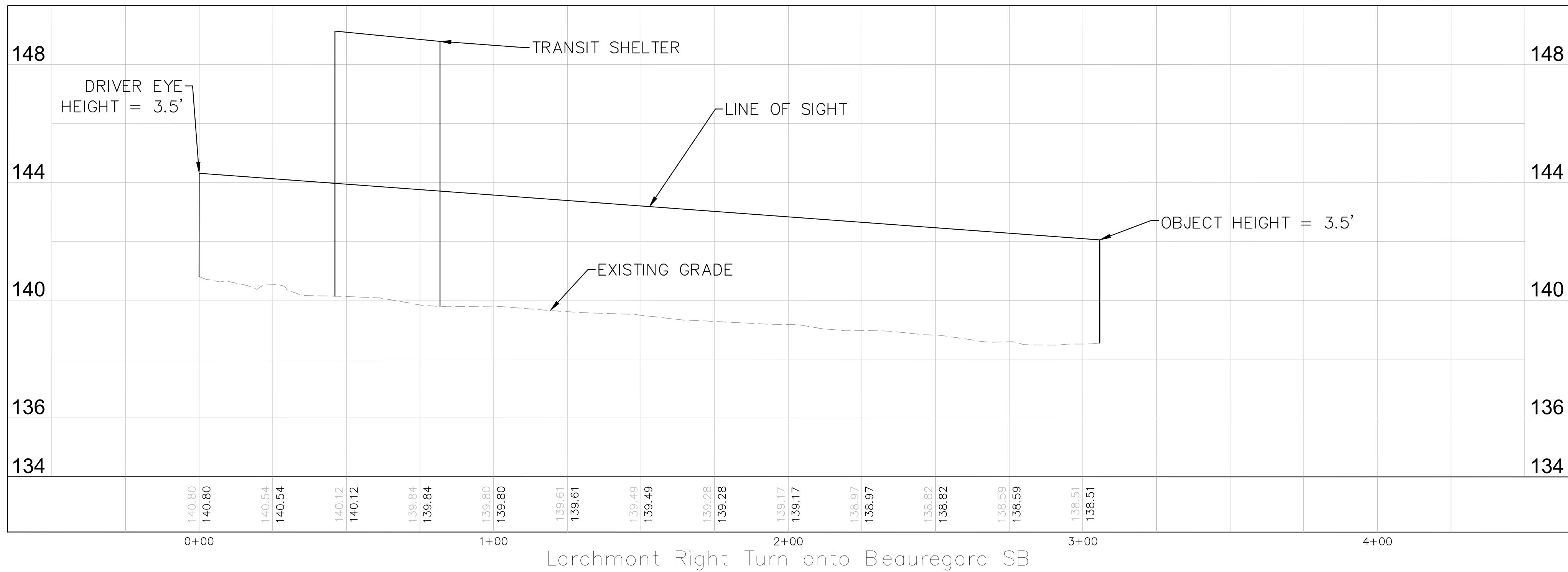
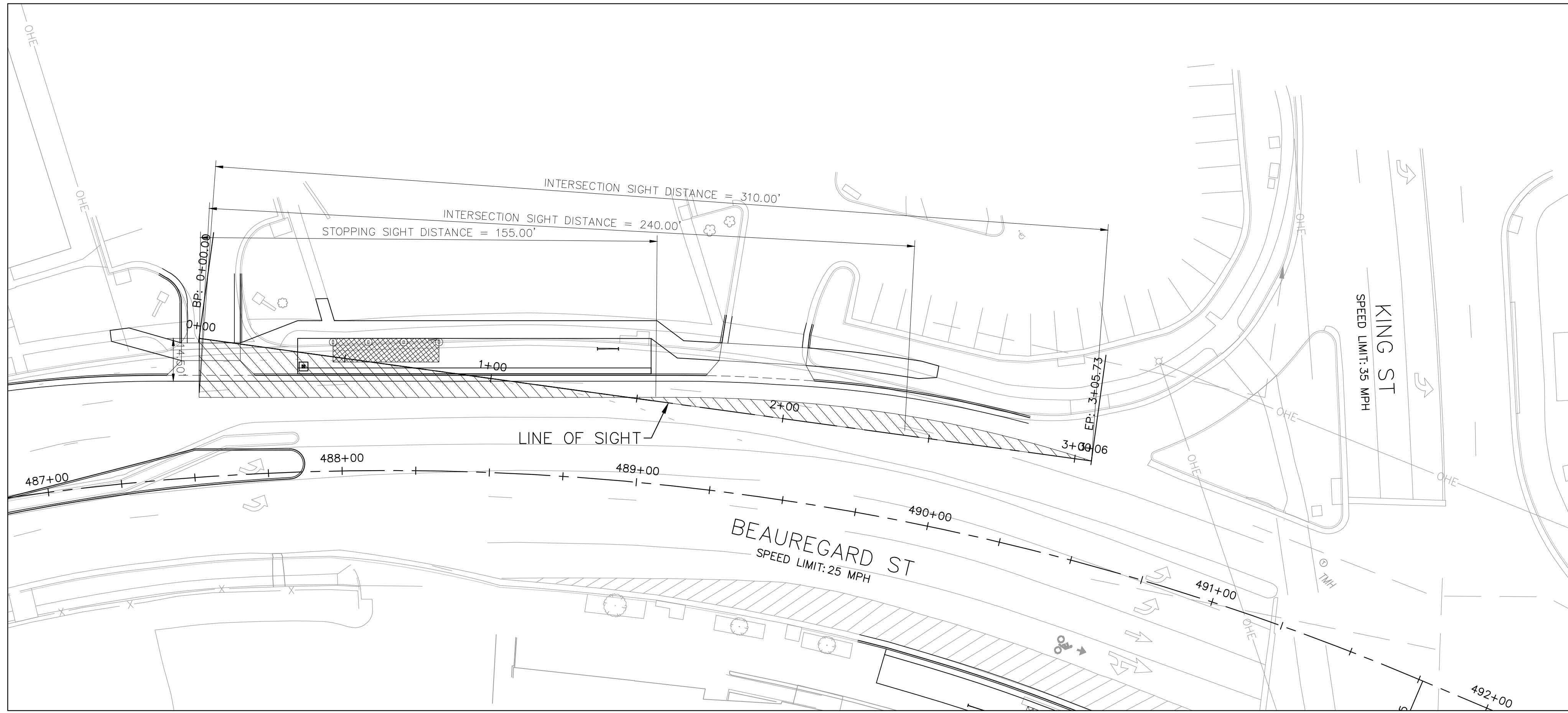
90% DESIGN PHASE

CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

REVISIONS	BY	DATE	DESCRIPTION

ALEXANDRIA PROJECT NO.: 110104122	DATE OF PLAN ISSUANCE: N/A
CONSULTANT PROJECT ID.: N/A	DESIGNED BY: MAT. DATE: 4/5/24
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APPROVED BY: _____	DATE: _____

SHEET
SD-027
SCALE 1" = 25'



WEST END TRANSITWAY – PHASE 1 IMPROVEMENTS

90% DESIGN PHASE

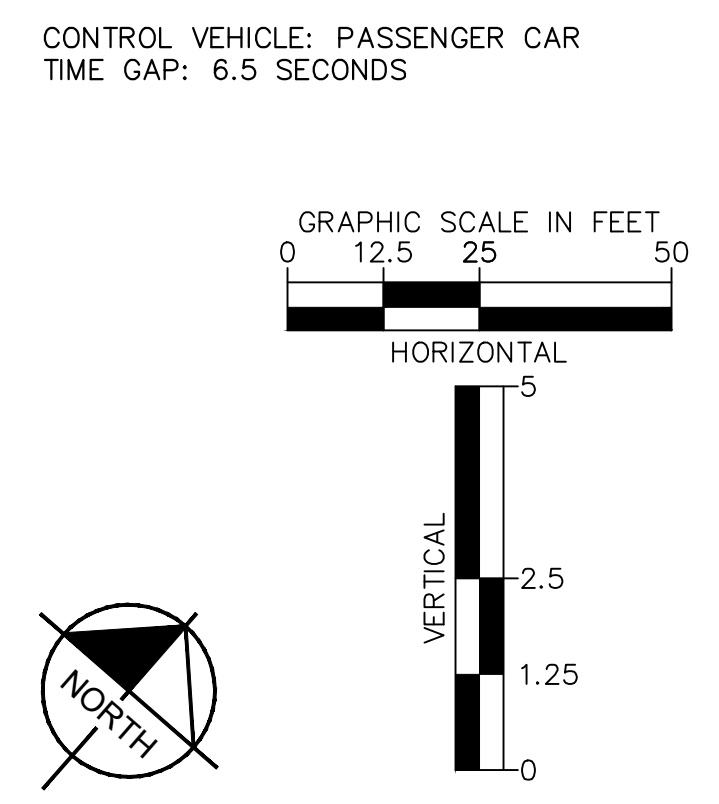
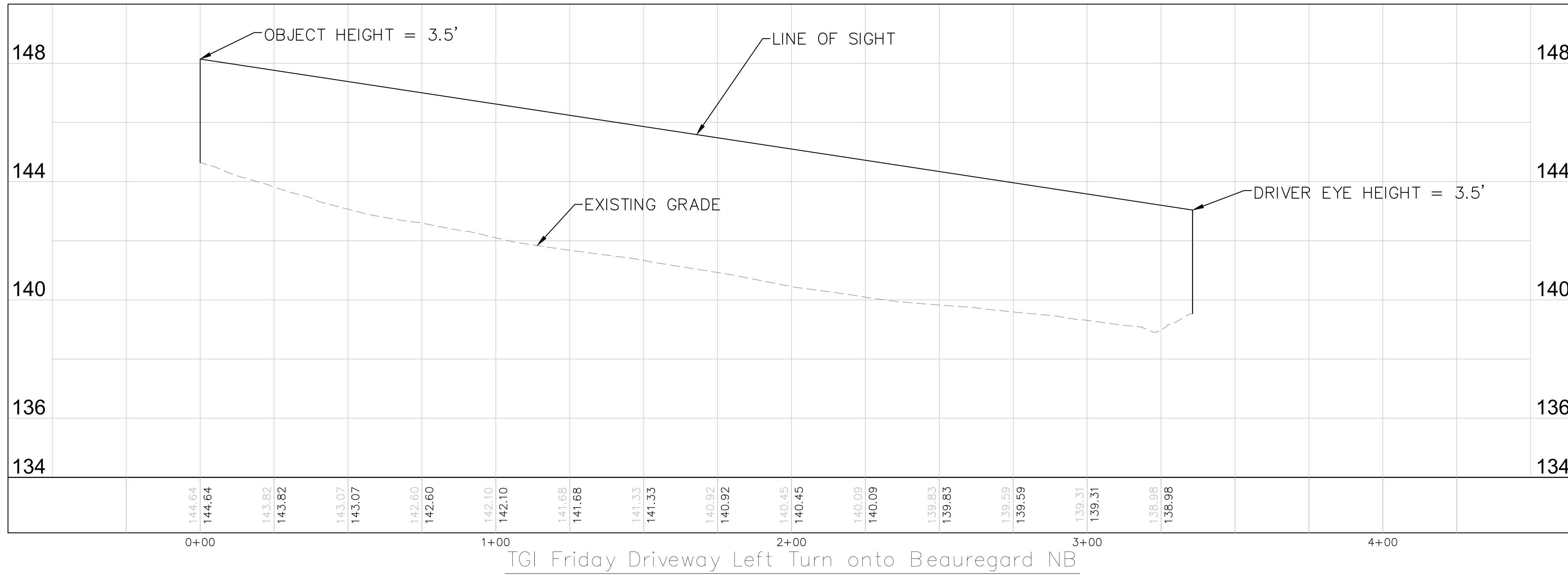
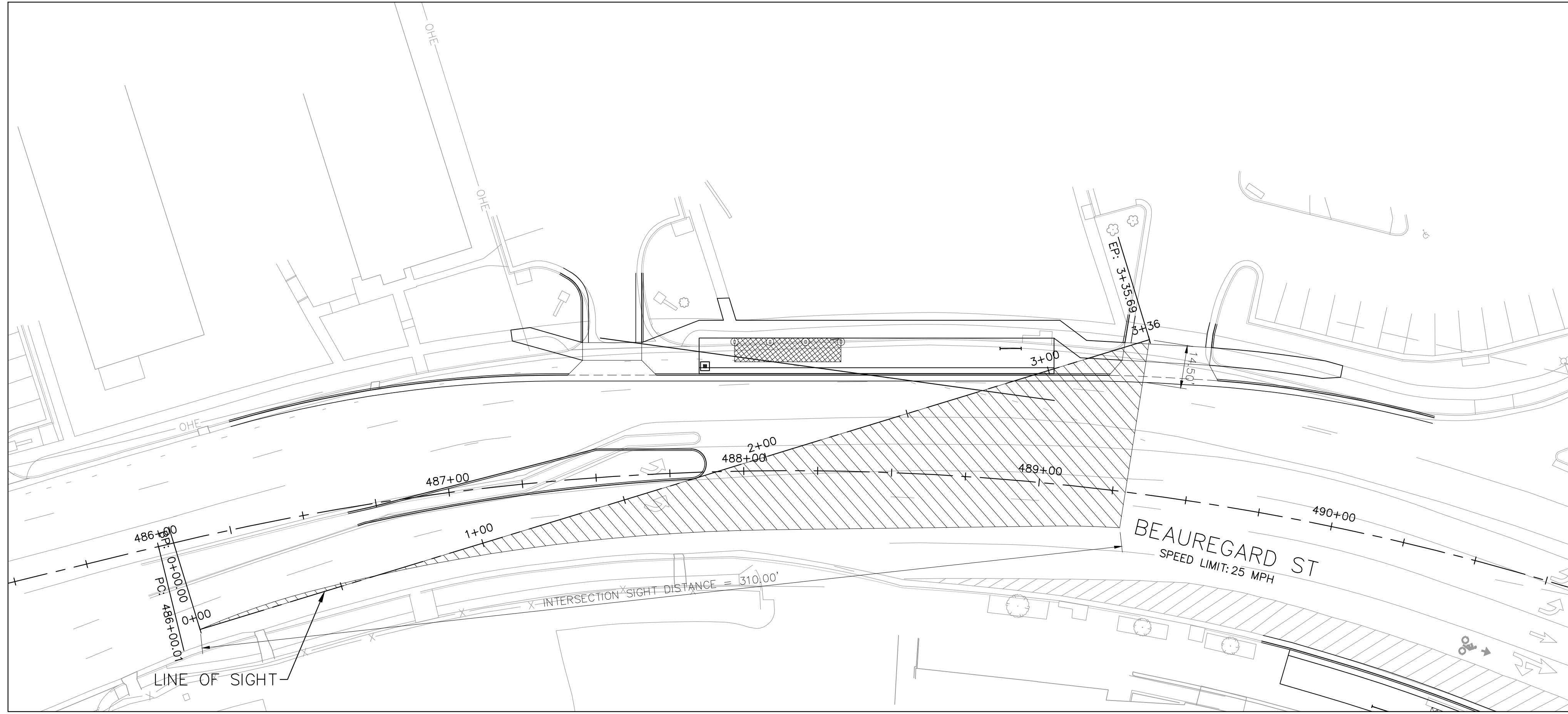
CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

REVISIONS	DESCRIPTION

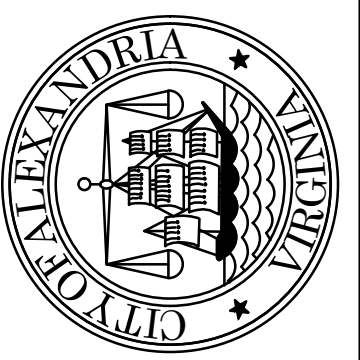
ALEXANDRIA PROJECT NO.: 110104122
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CONSULTANT PROJECT ID: N/A
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APPROVED BY: _____ DATE: _____

SIGHT DISTANCE EXHIBIT
– LARCHMONT AVENUE
RIGHT

SHEET
SD-028
SCALE 1" = 25'



WEST END TRANSITWAY – PHASE 1 IMPROVEMENTS



CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

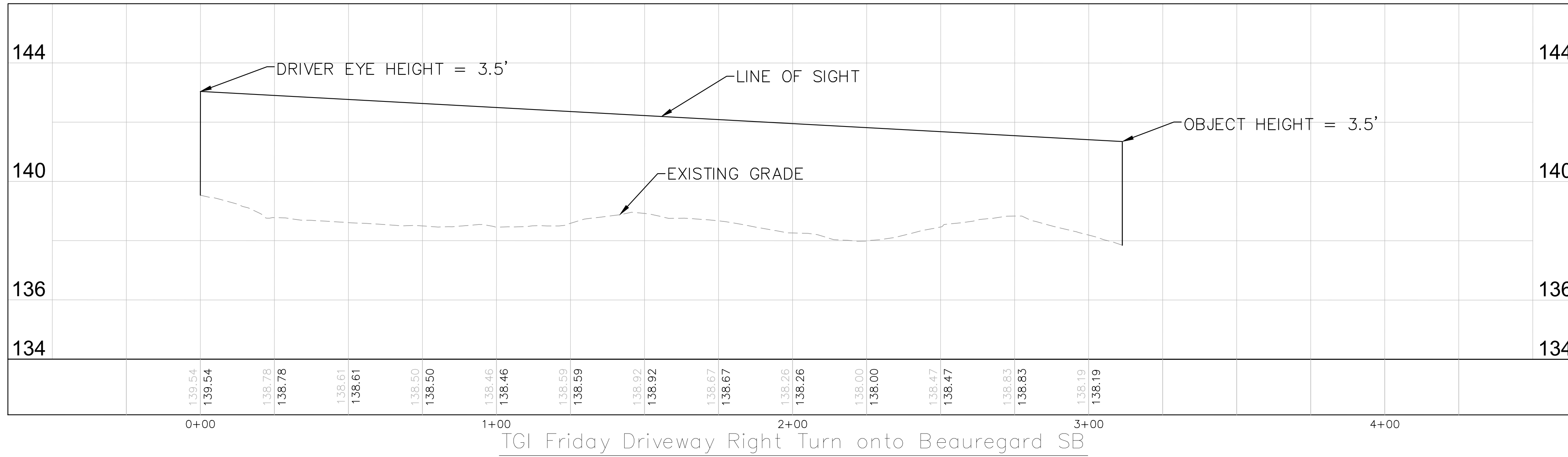
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APPROVED BY:	

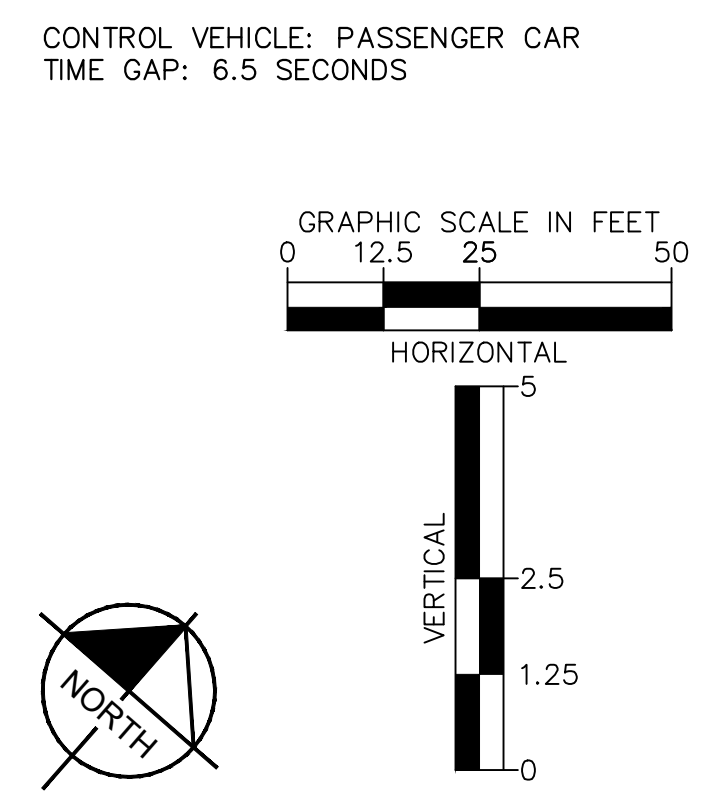
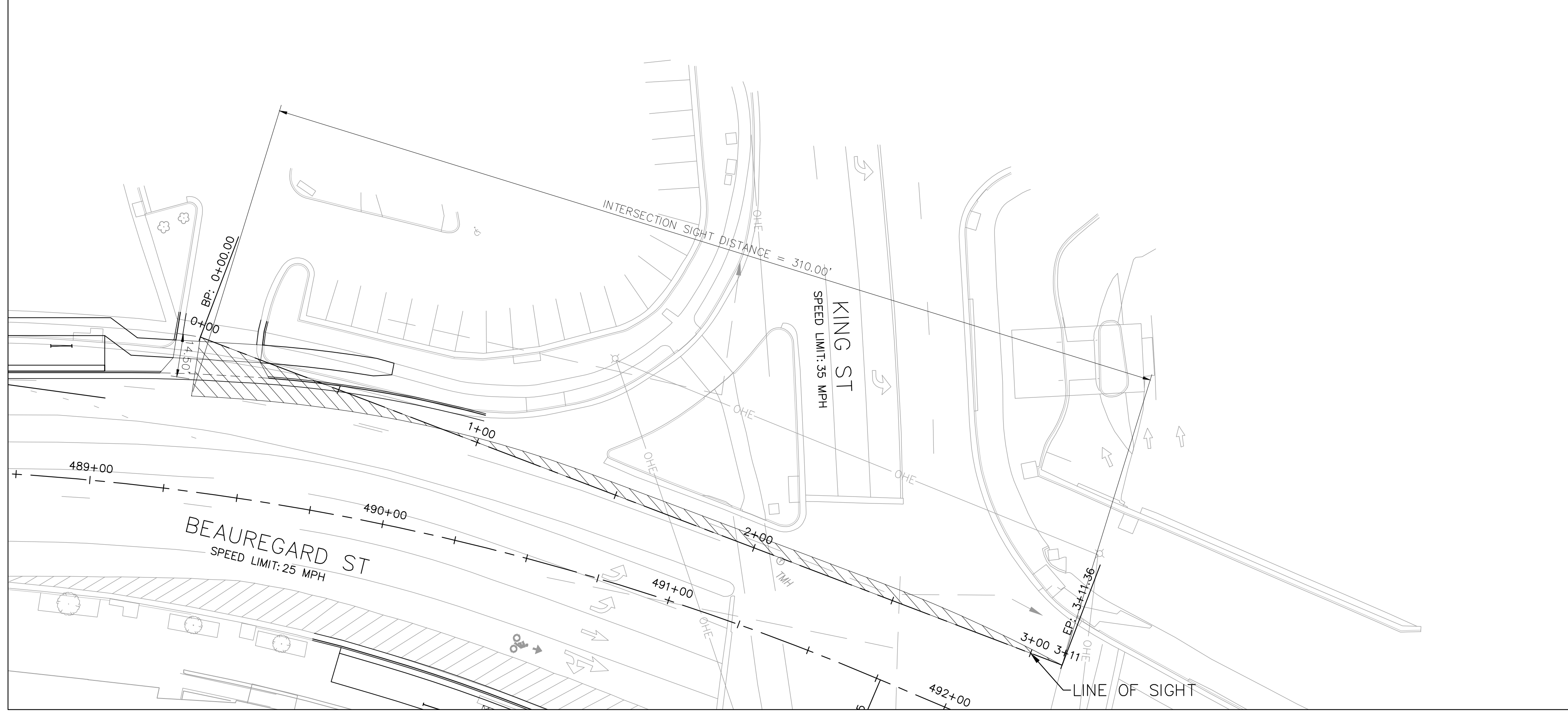
SIGHT DISTANCE EXHIBIT
 – TGI FRIDAY DRIVEWAY
 LEFT

SHEET
 SD-029
 SCALE 1" = 25'

90% DESIGN PHASE



TGI Friday Driveway Right Turn onto Beauregard SB



WEST END TRANSITWAY – PHASE 1 IMPROVEMENTS

SIGHT DISTANCE EXHIBIT
– TGI FRIDAY DRIVEWAY
RIGHT

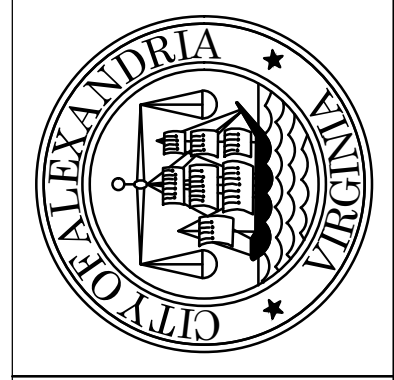
SHEET
SD-030
SCALE 1" = 25'

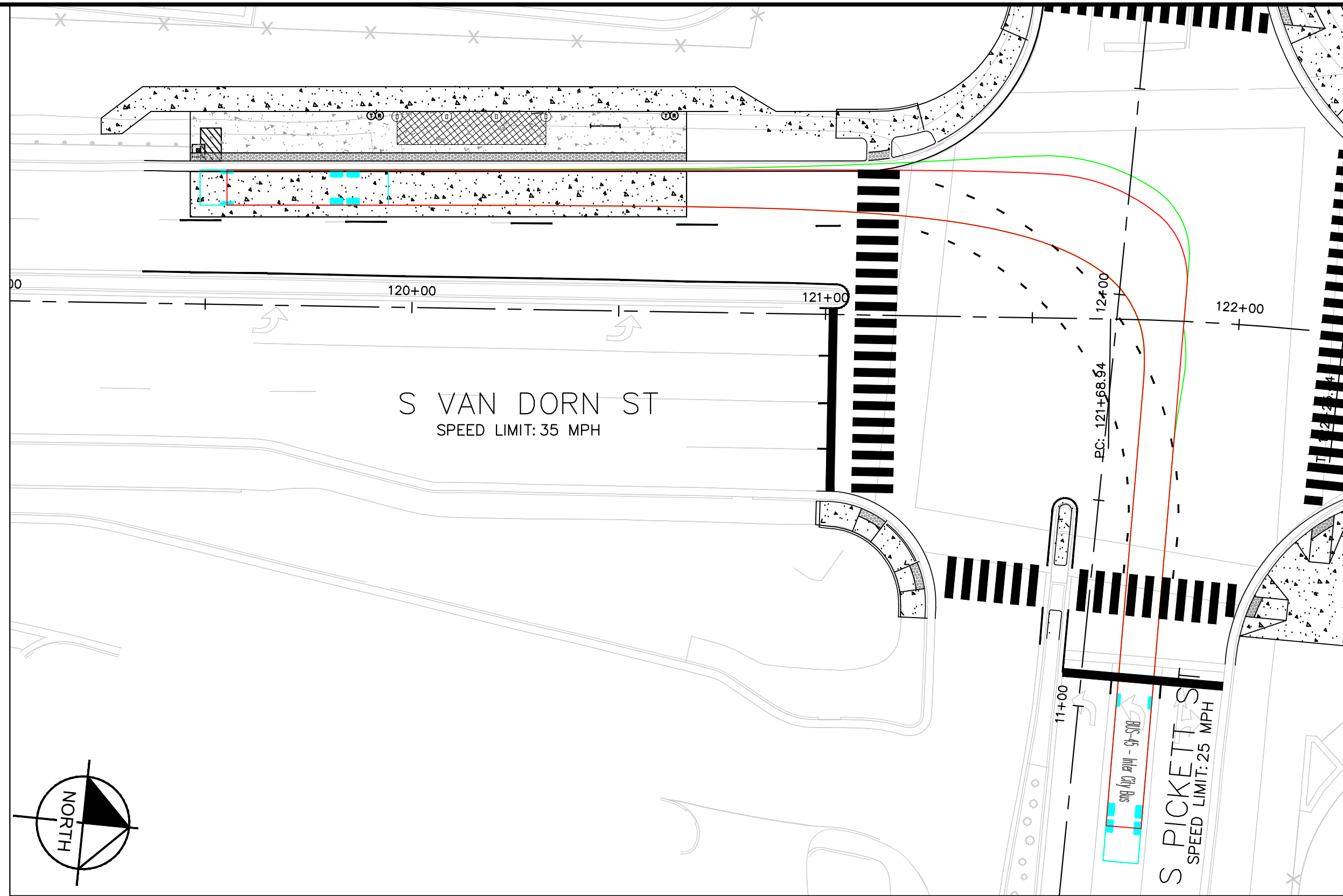
90% DESIGN PHASE

CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

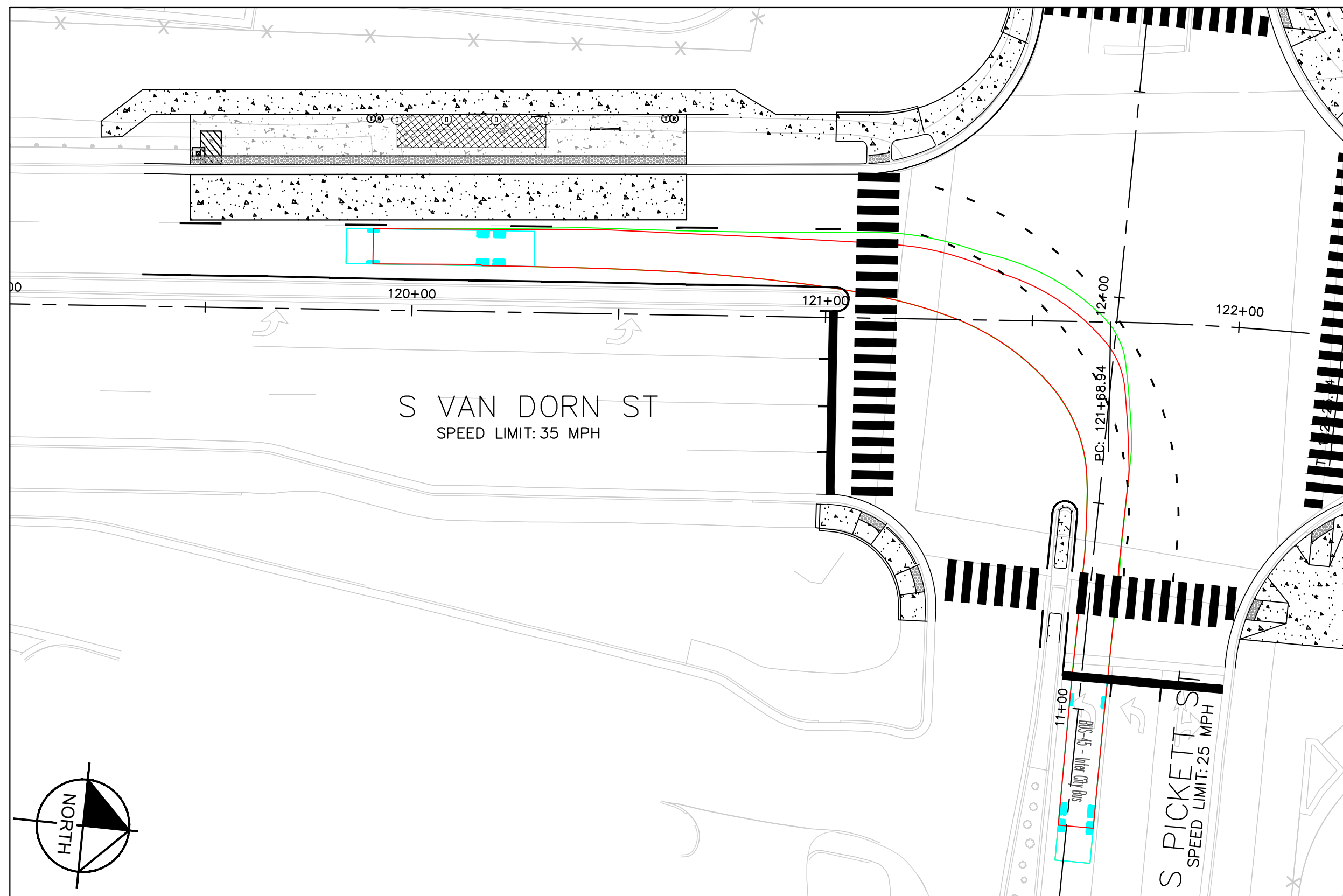
REVISIONS	DATE	DESCRIPTION

ALEXANDRIA PROJECT NO.: 110104122
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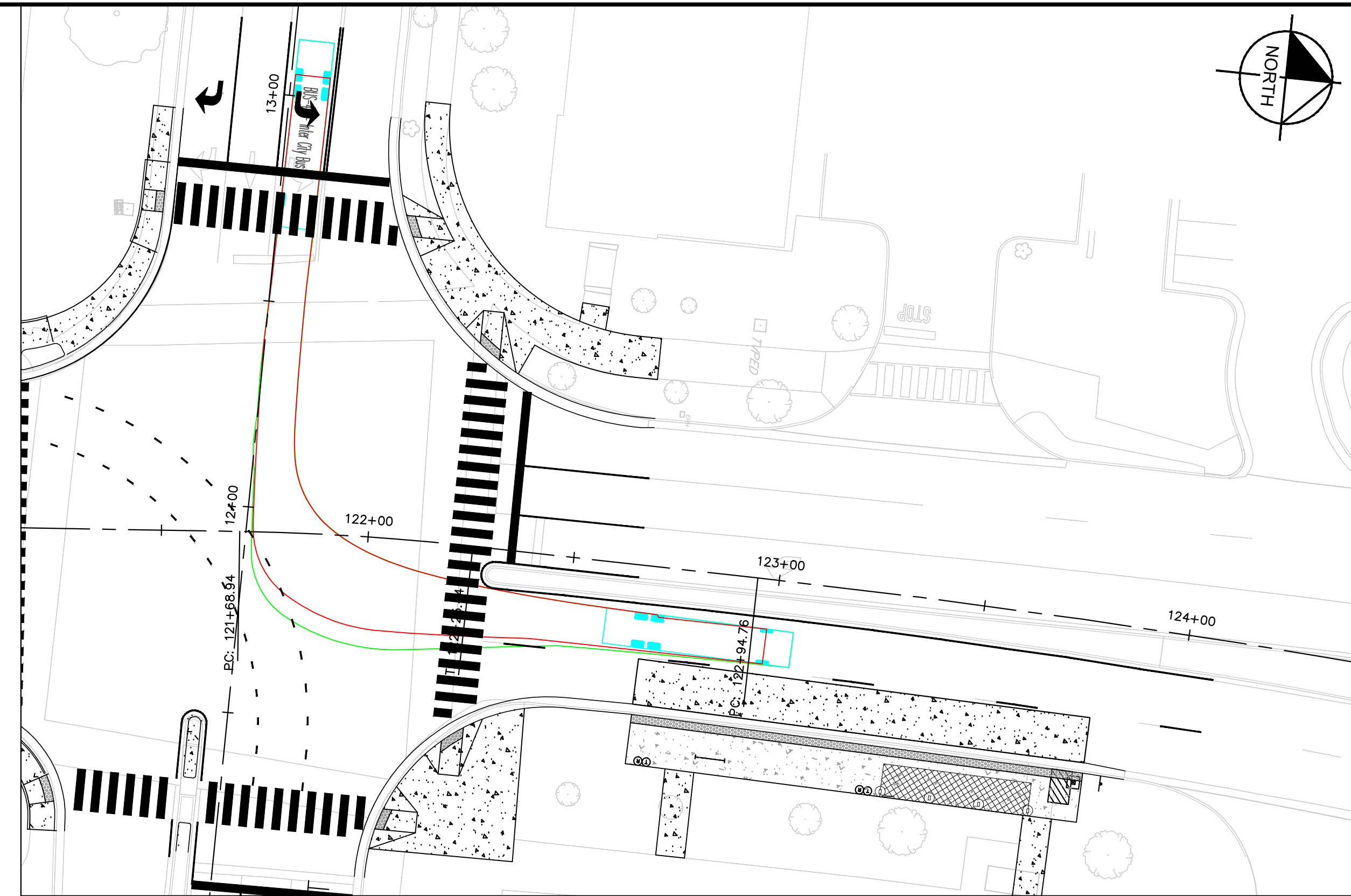




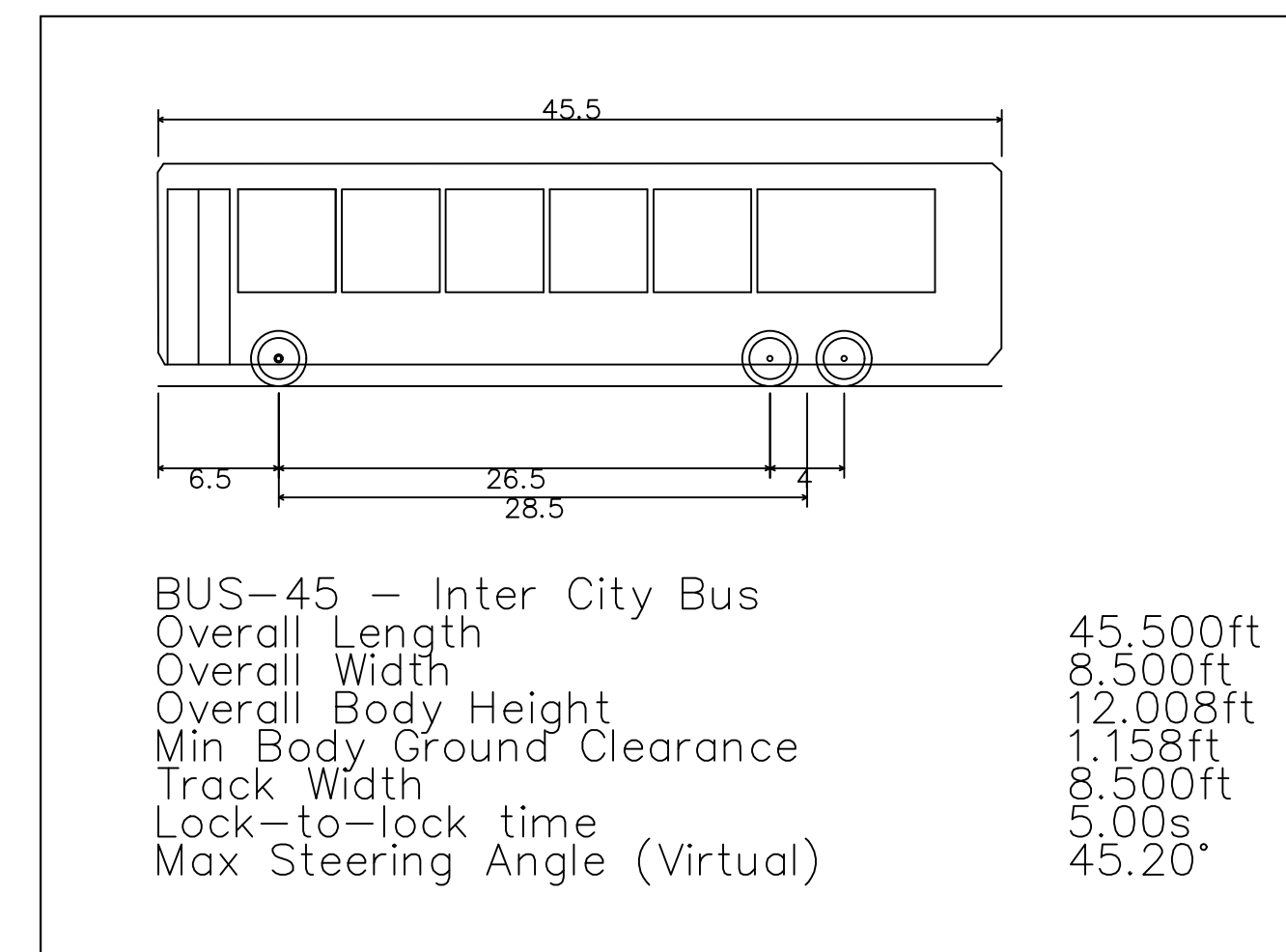
BUS ROUTE LEFT TURN PICKETT ST WB ONTO S VAN DORN ST SB
 DASH: 32
 WMATA: N/A



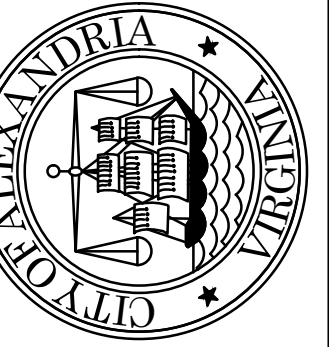
BUS ROUTE LEFT TURN PICKETT ST WB ONTO S VAN DORN ST SB
 DASH: 32
 WMATA: N/A



TRUCK ROUTE LEFT TURN PICKETT ST EB ONTO S VAN DORN ST NB
 DASH: 30
 WMATA: N/A



90% DESIGN PHASE



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 ALEXANDRIA, VIRGINIA 22313

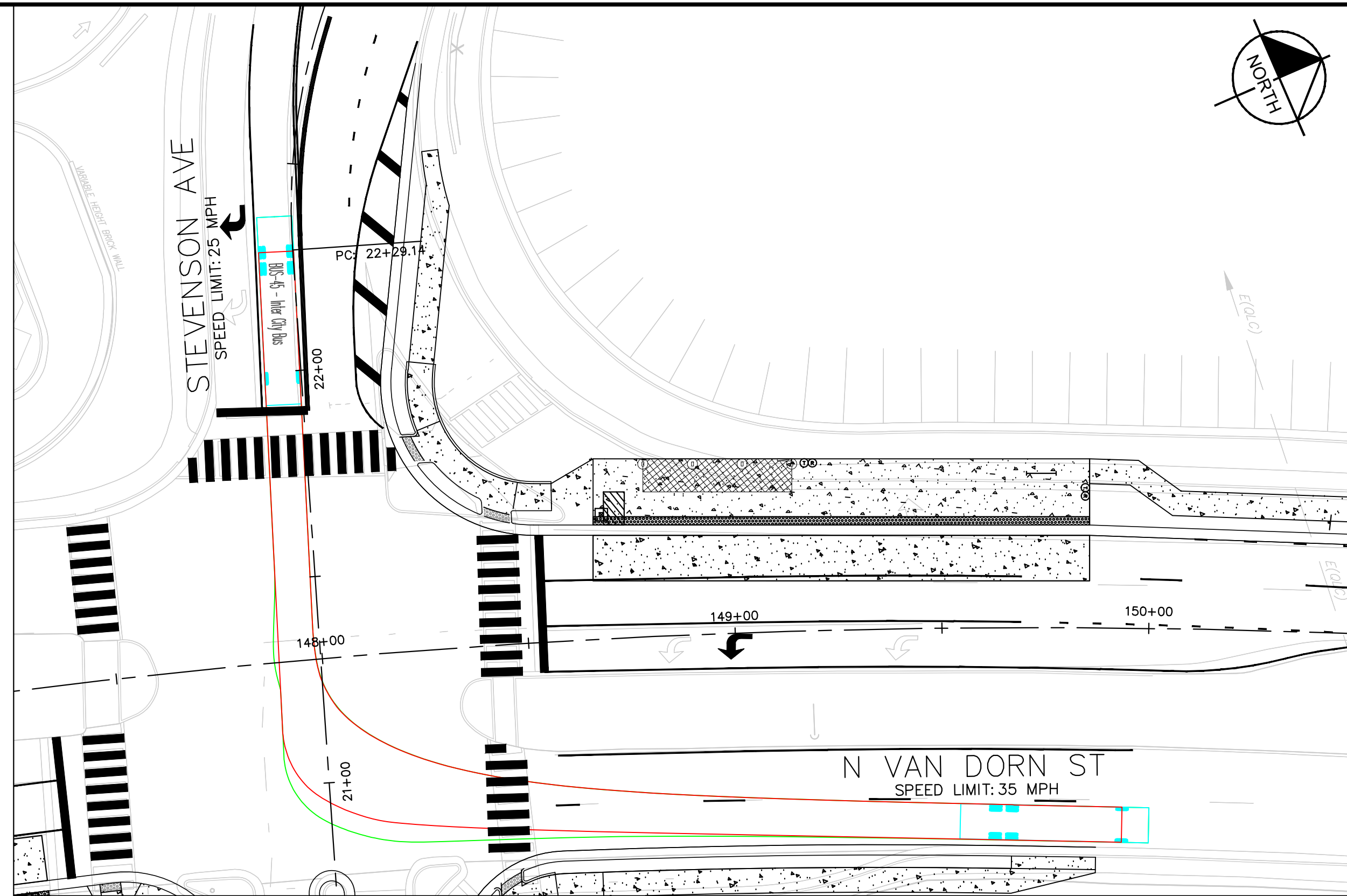
REVISIONS	DESCRIPTION
DATE	BY

ALEXANDRIA PROJECT NO.: 110104122
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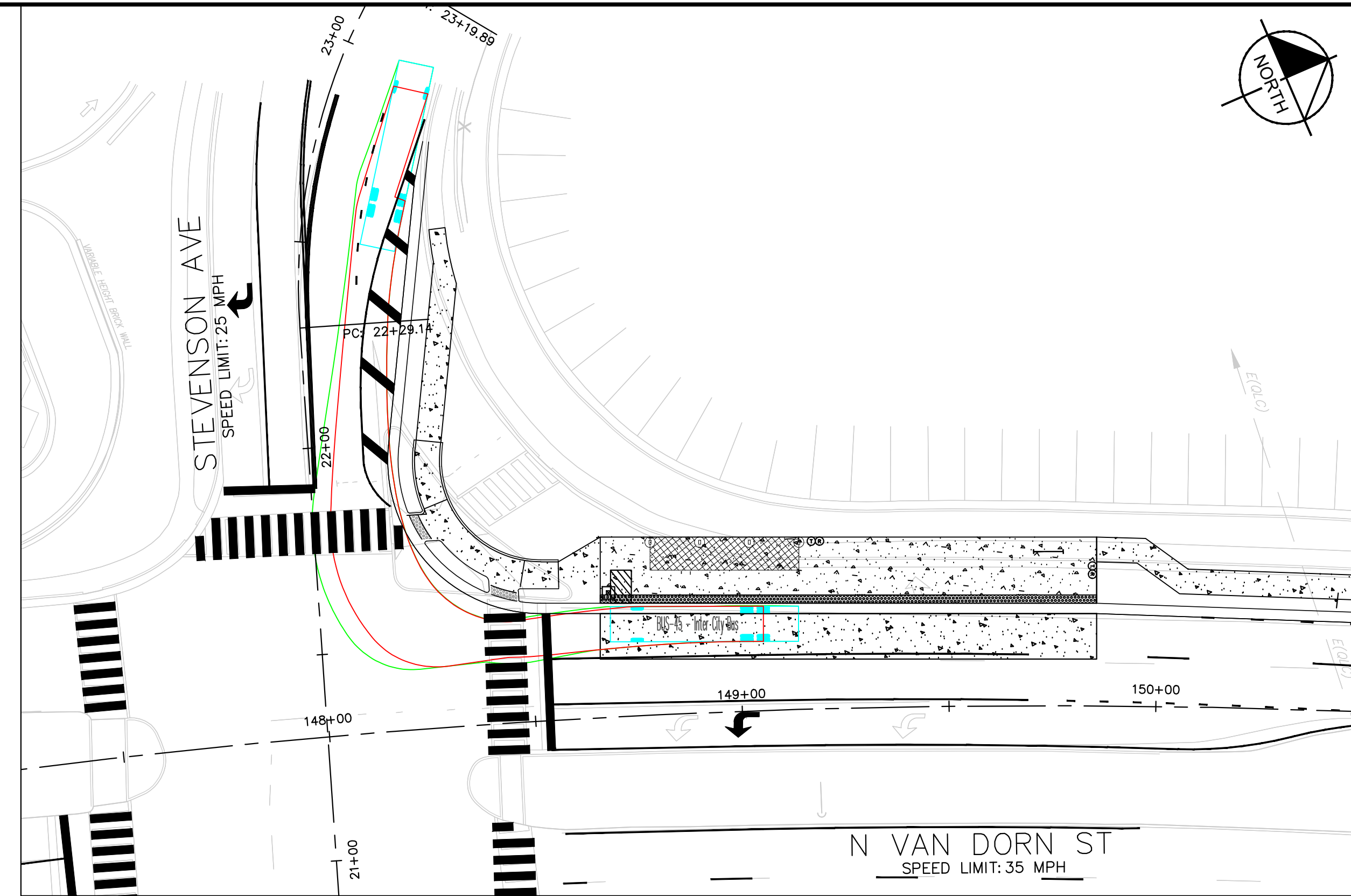
WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

TURNING MOVEMENT
 EXHIBITS

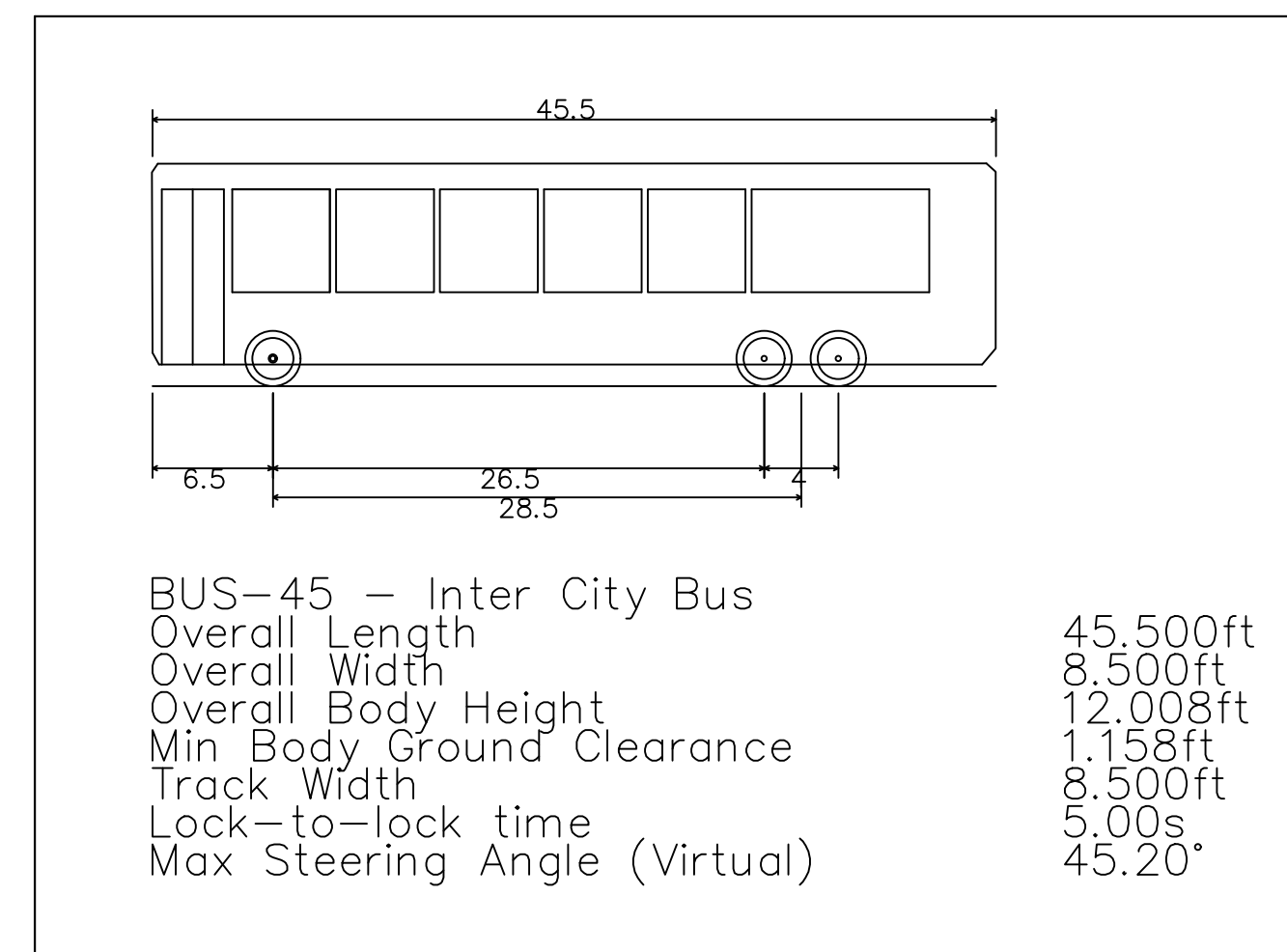
SHEET
 AT-001
 SCALE



BUS ROUTE RIGHT TURN OFF STEVENSON ST EB ONTO N VAN DORN ST NB
 DASH: 30, 35
 WMATA: N/A



BUS ROUTE RIGHT TURN OFF N VAN DORN ST SB ONTO STEVENSON ST WB
 DASH: 30, 35
 WMATA: N/A



90% DESIGN PHASE



CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

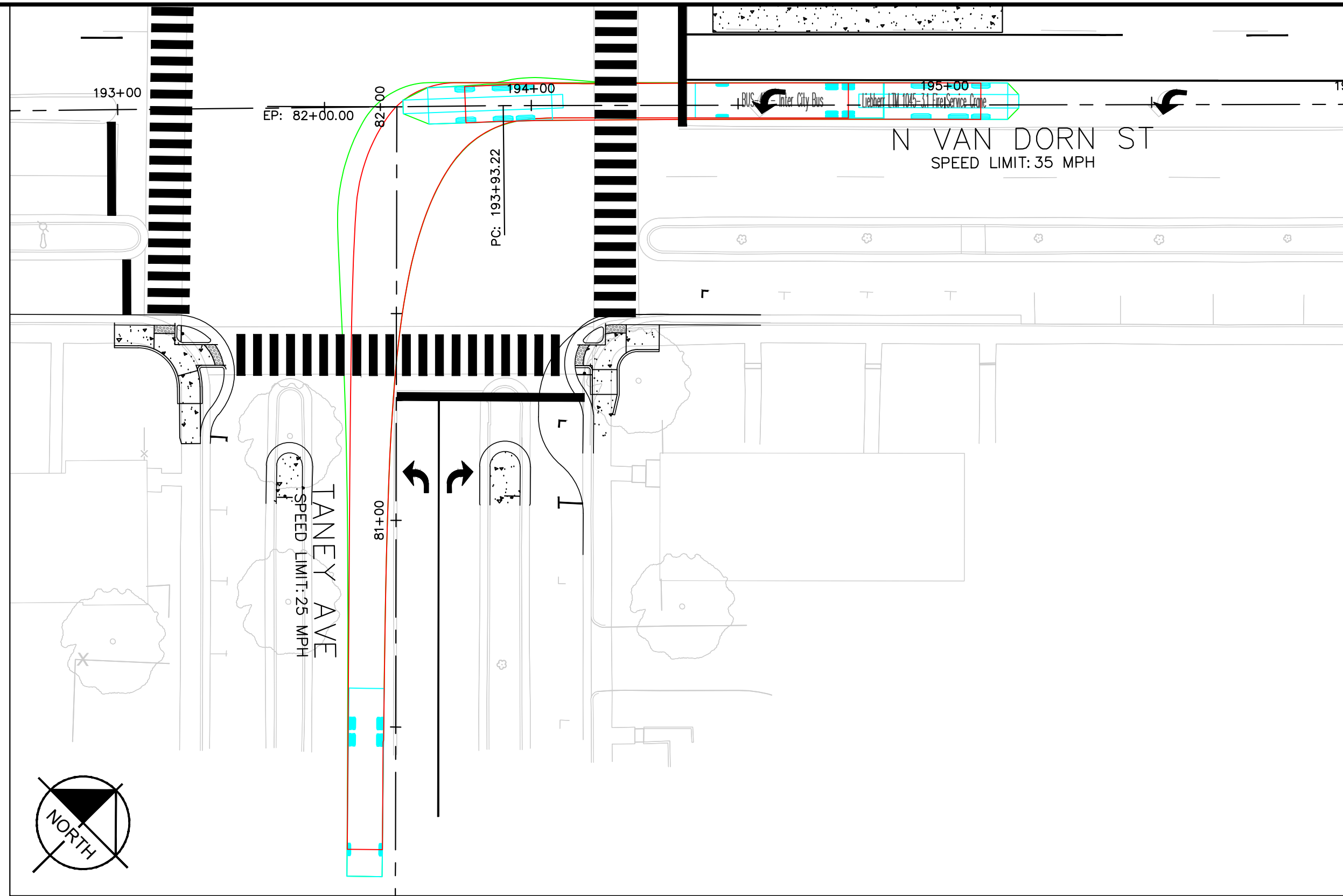
REVISIONS	DESCRIPTION
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CONSULTANT PROJECT ID.:	N/A
DESIGNED BY:	DATE:
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CHECKED BY:	DATE:
APPROVED BY:	DATE:

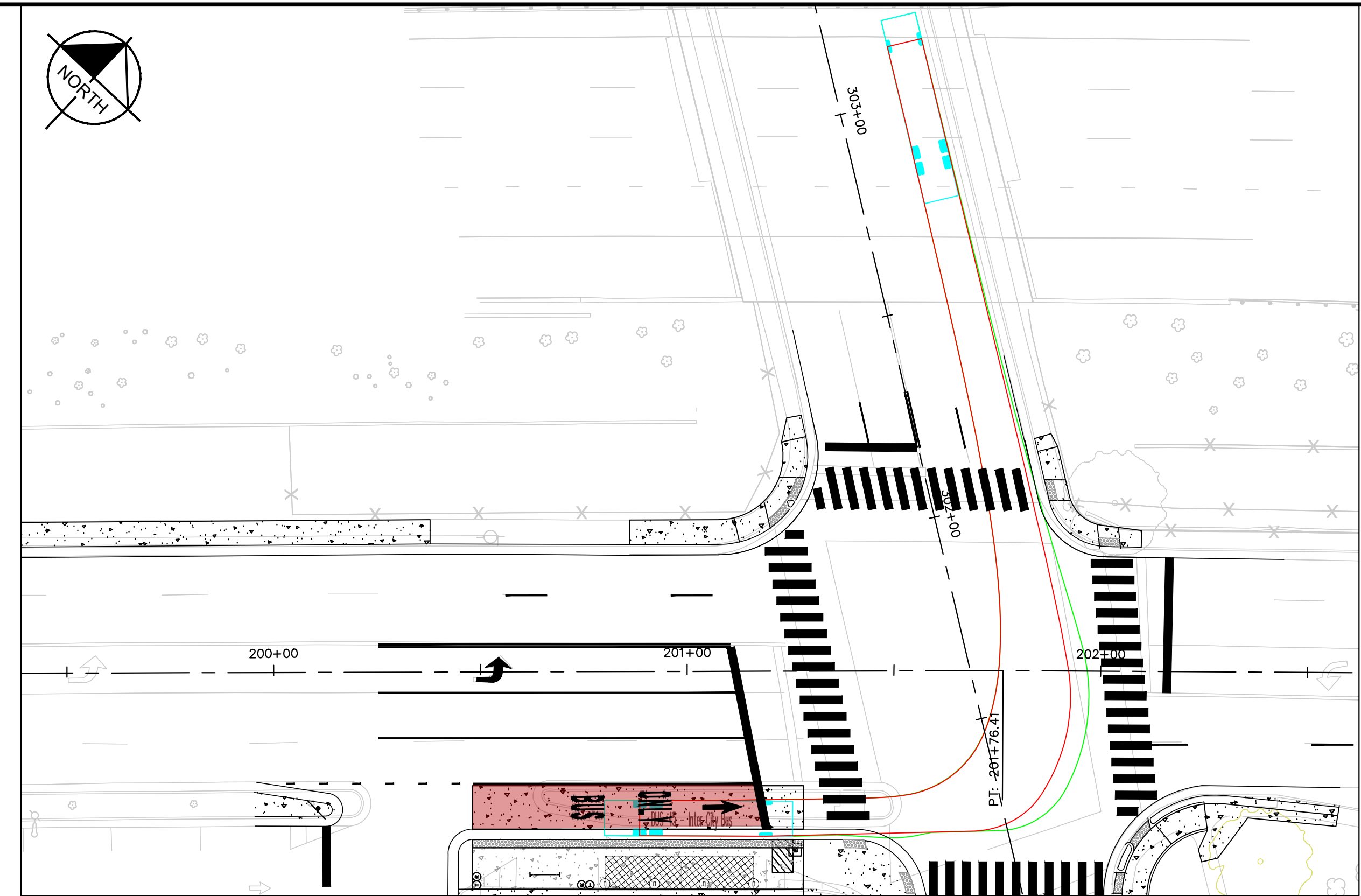
WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

TURNING MOVEMENT
 EXHIBITS

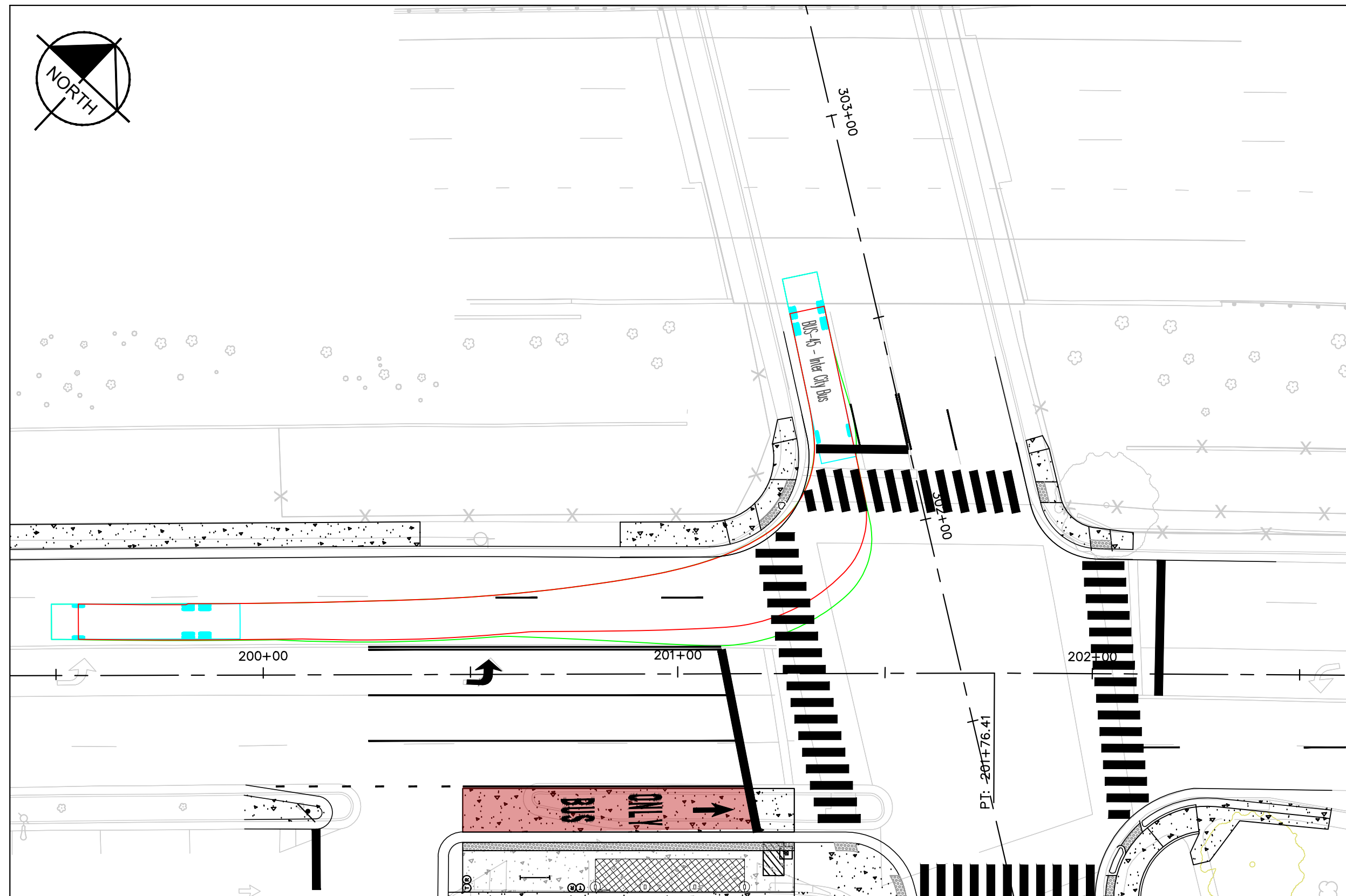
SHEET
 AT-002
 SCALE 1"=15'



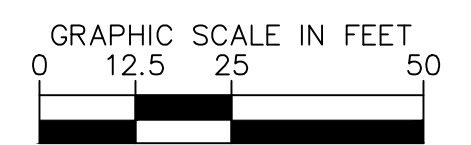
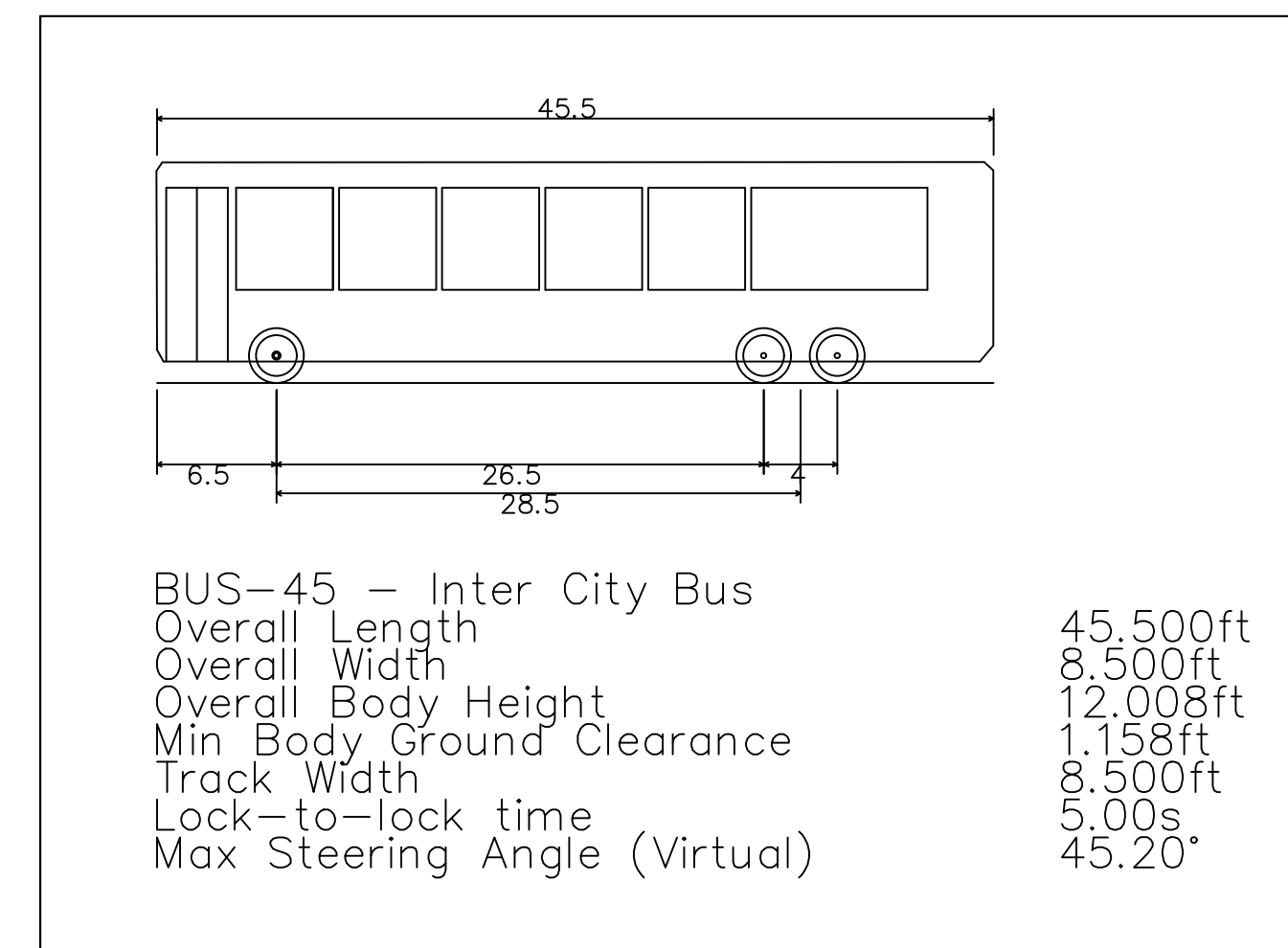
BUS ROUTE LEFT TURN OFF N VAN DORN ST SB ONTO TANEY AVE WB
 DASH: N/A
 WMATA: 8W



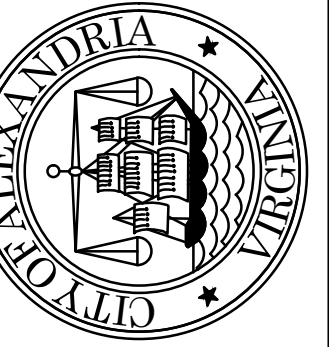
BUS ROUTE LEFT TURN OFF N VAN DORN ST SB ONTO TANEY AVE WB
 DASH: N/A
 WMATA: 8W



BUS ROUTE RIGHT TURN OFF SANGER AVE WB ONTO N VAN DORN ST SB
 DASH: BRT
 WMATA: N/A



90% DESIGN PHASE



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 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

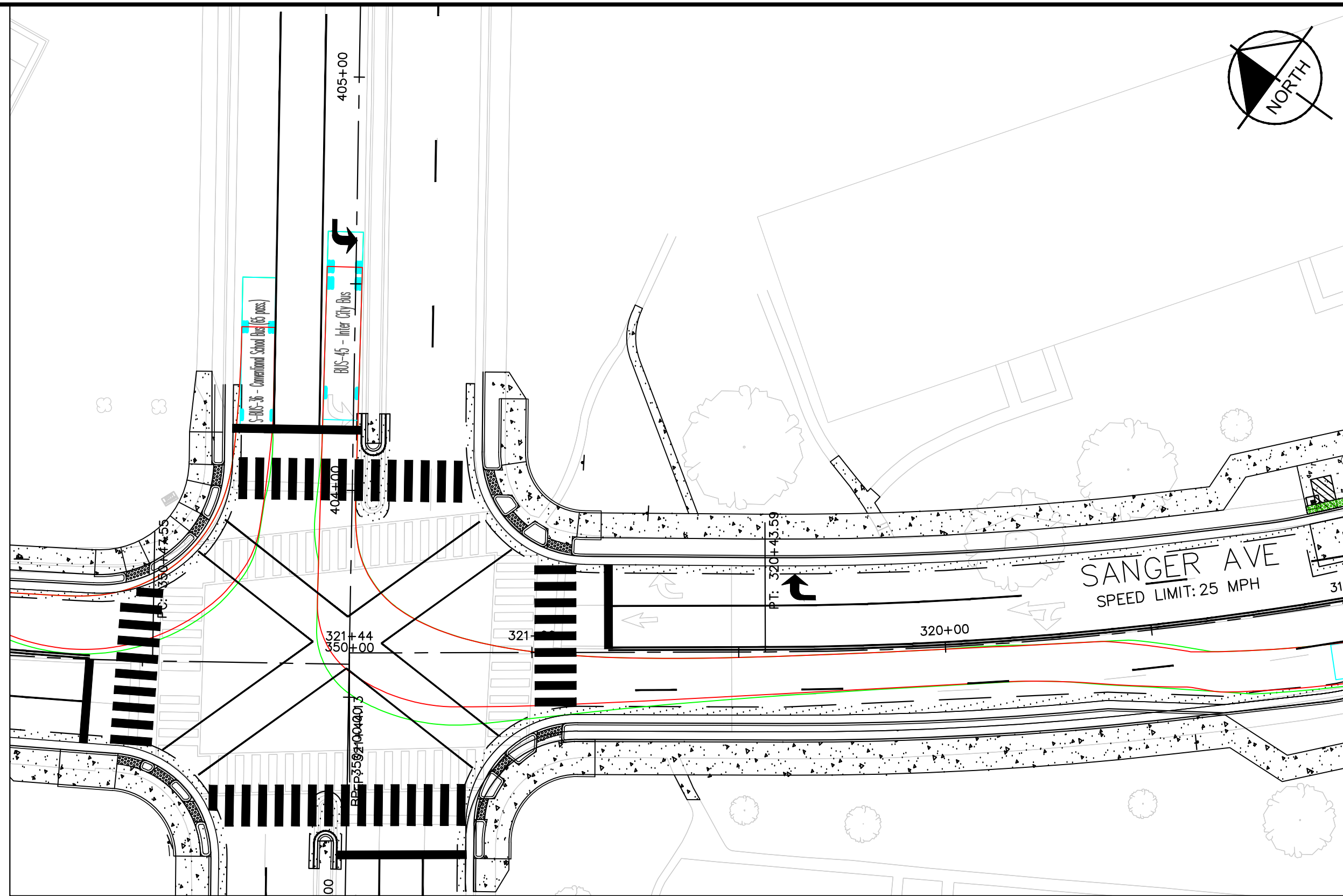
WEST END TRANSITWAY – PHASE 1 IMPROVEMENTS

REVISIONS	DATE	DESCRIPTION

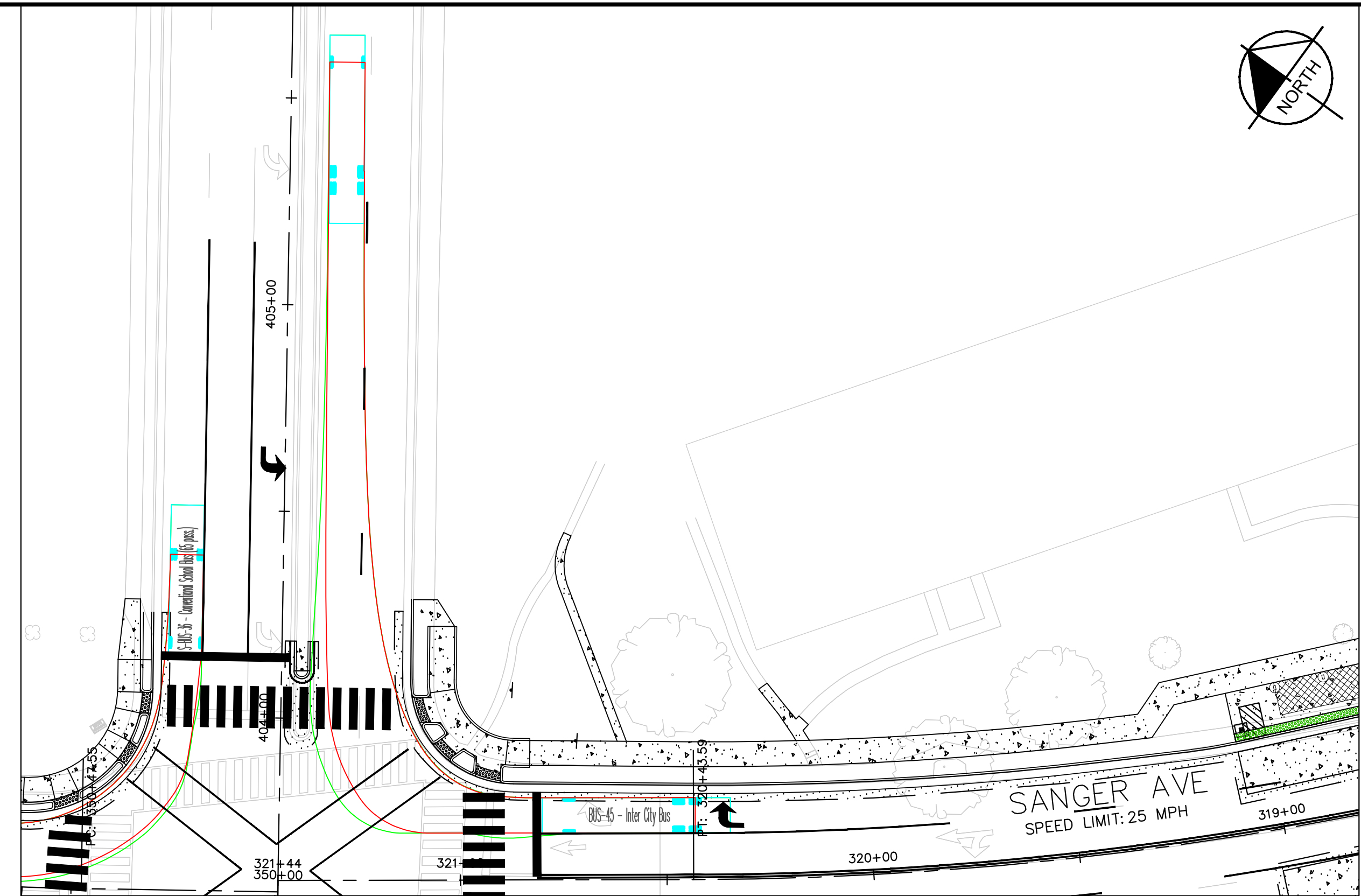
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 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
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 APPROVED BY: DATE: DATE: DATE: DATE: DATE: DATE:

TURNING MOVEMENT
 EXHIBITS

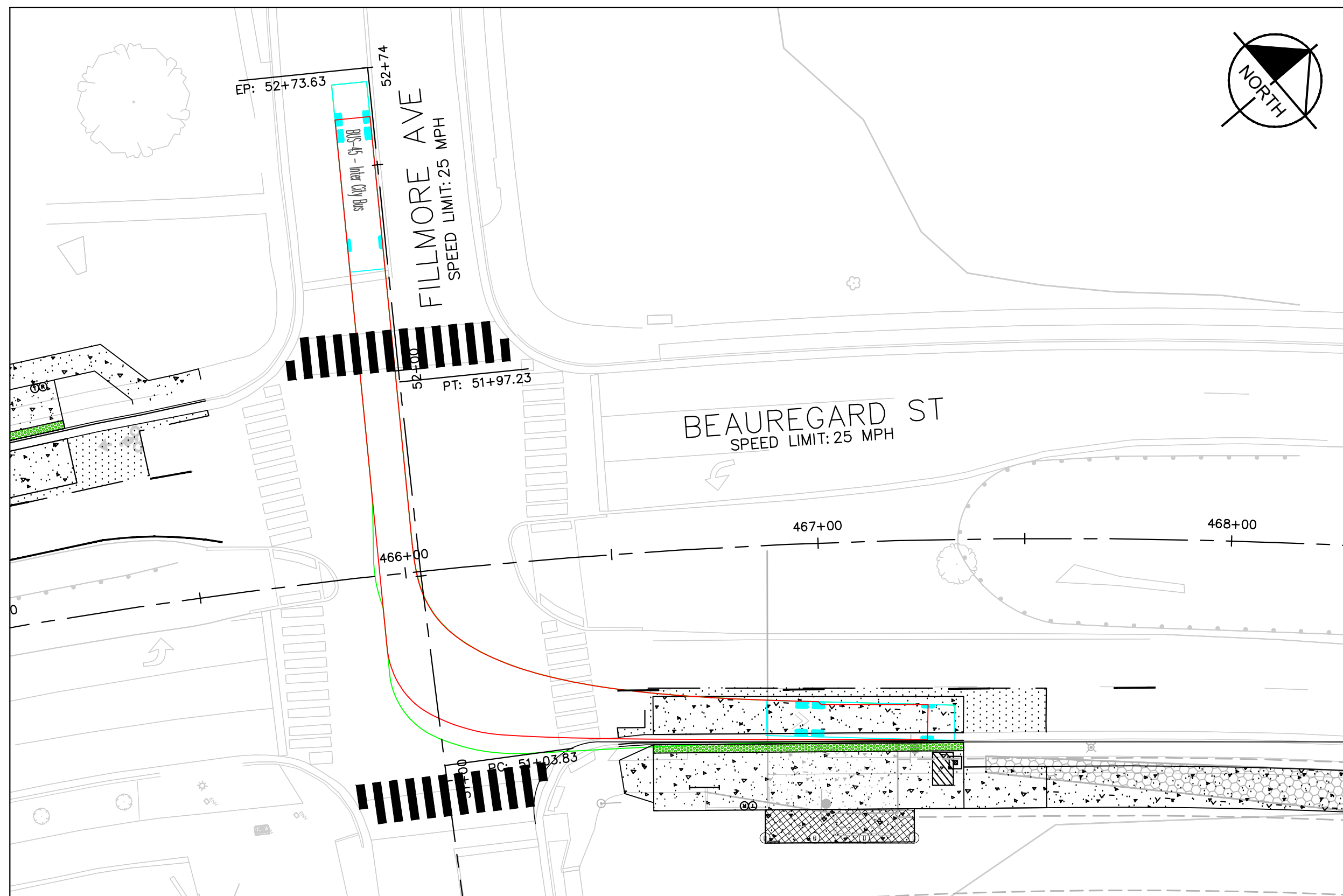
SHEET
 AT-004
 SCALE



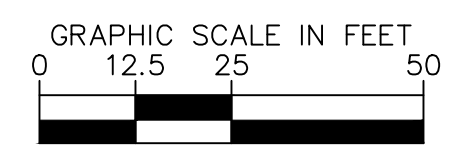
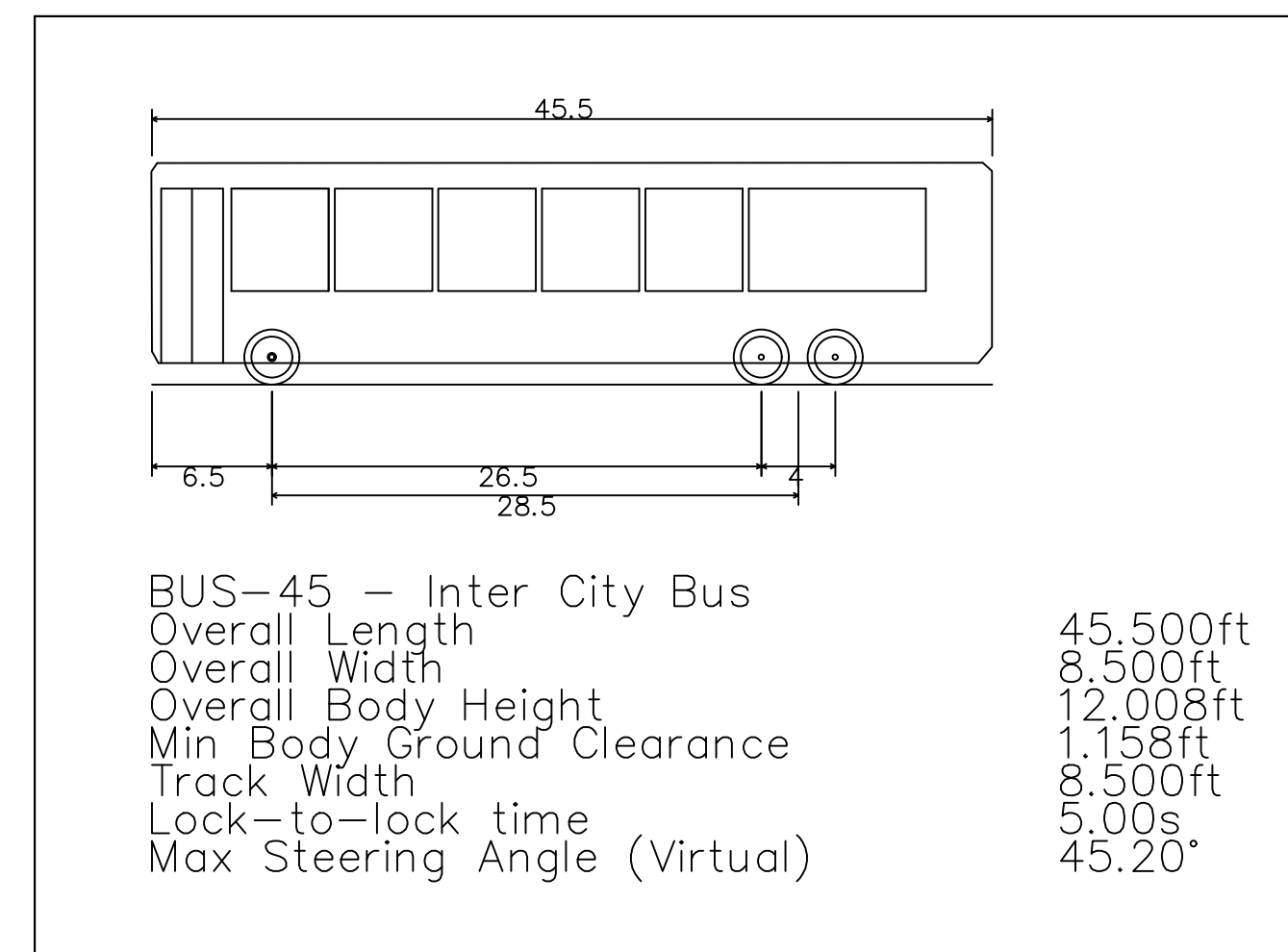
BUS ROUTE LEFT TURN OFF BEAUREGARD ST SB ONTO SANGER AVE WB
 DASH: BRT
 WMATA: N/A



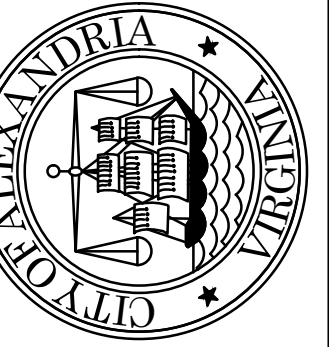
BUS ROUTE RIGHT TURN OFF SANGER AVE WB ONTO N VAN DORN ST SB
 DASH: BRT
 WMATA: N/A



BUS ROUTE LEFT TURN OFF FILMORE AVE WB ONTO BEAUREGARD ST NB
 DASH: N/A
 WMATA: 22F



90% DESIGN PHASE



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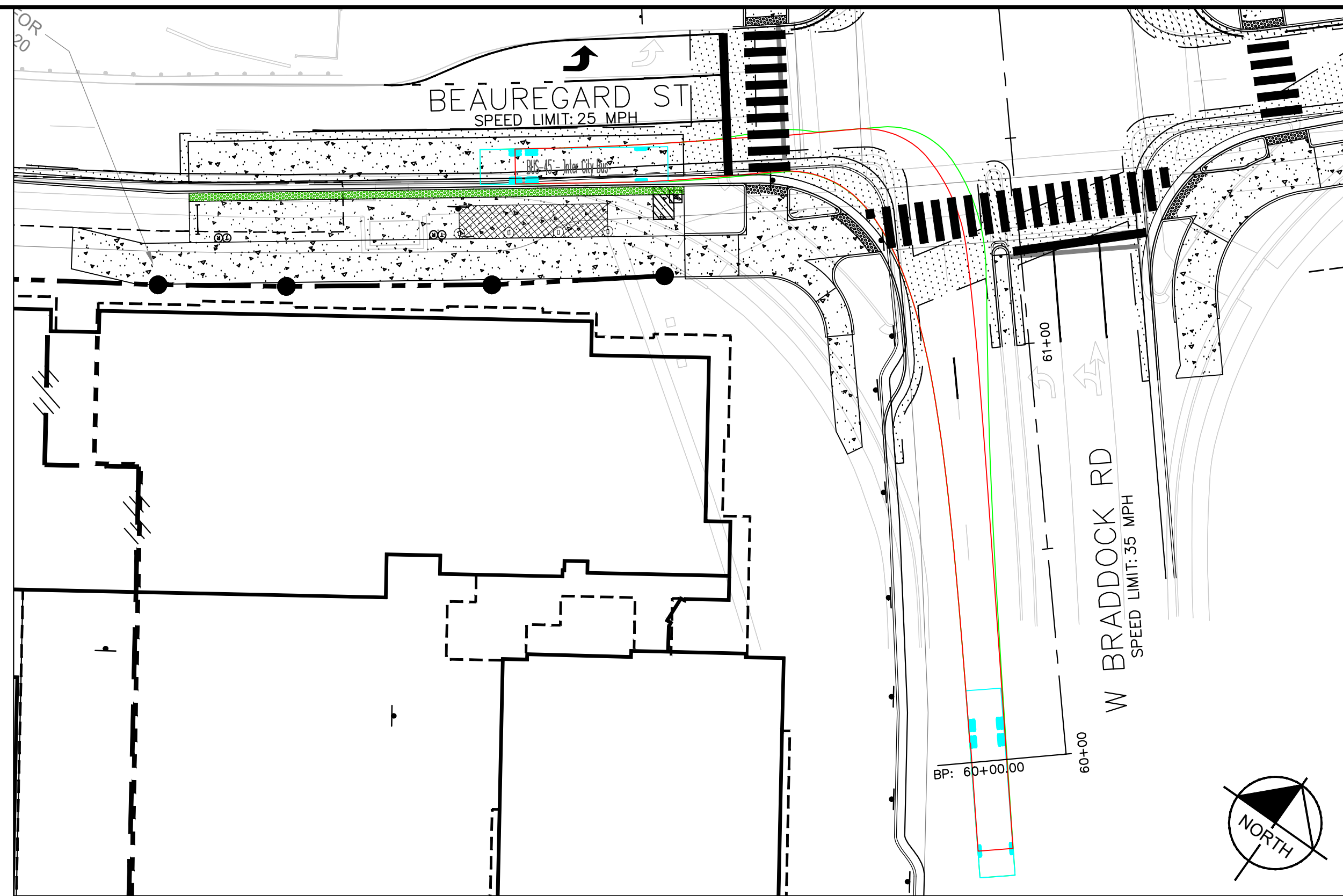
WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

REVISIONS	DESCRIPTION
DATE	BY

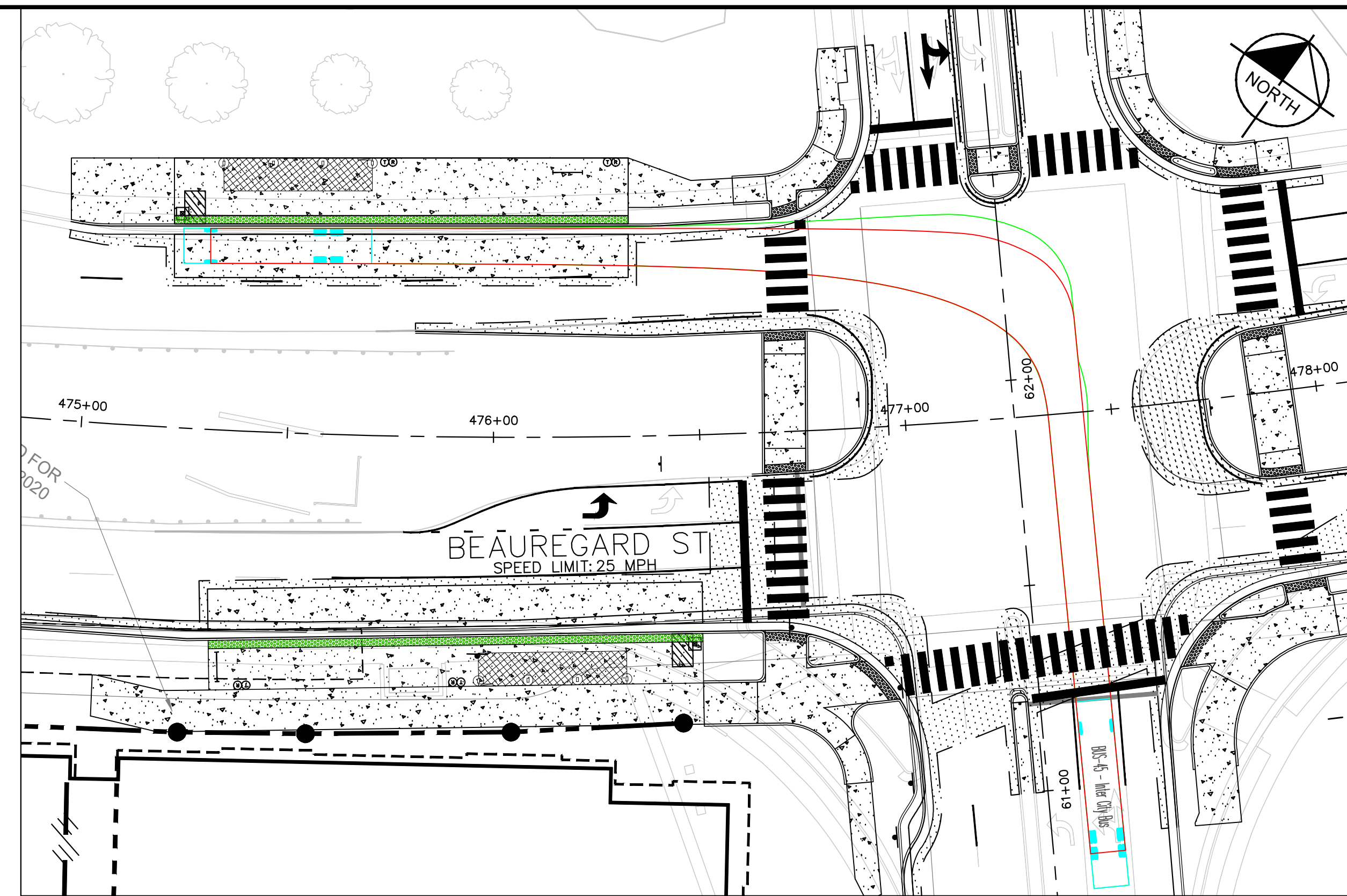
ALEXANDRIA PROJECT NO.: 110104122
 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: DATE: _____
 DRAWN BY: DATE: _____
 CHECKED BY: DATE: _____
 APPROVED BY: DATE: _____

TURNING MOVEMENT
 EXHIBITS

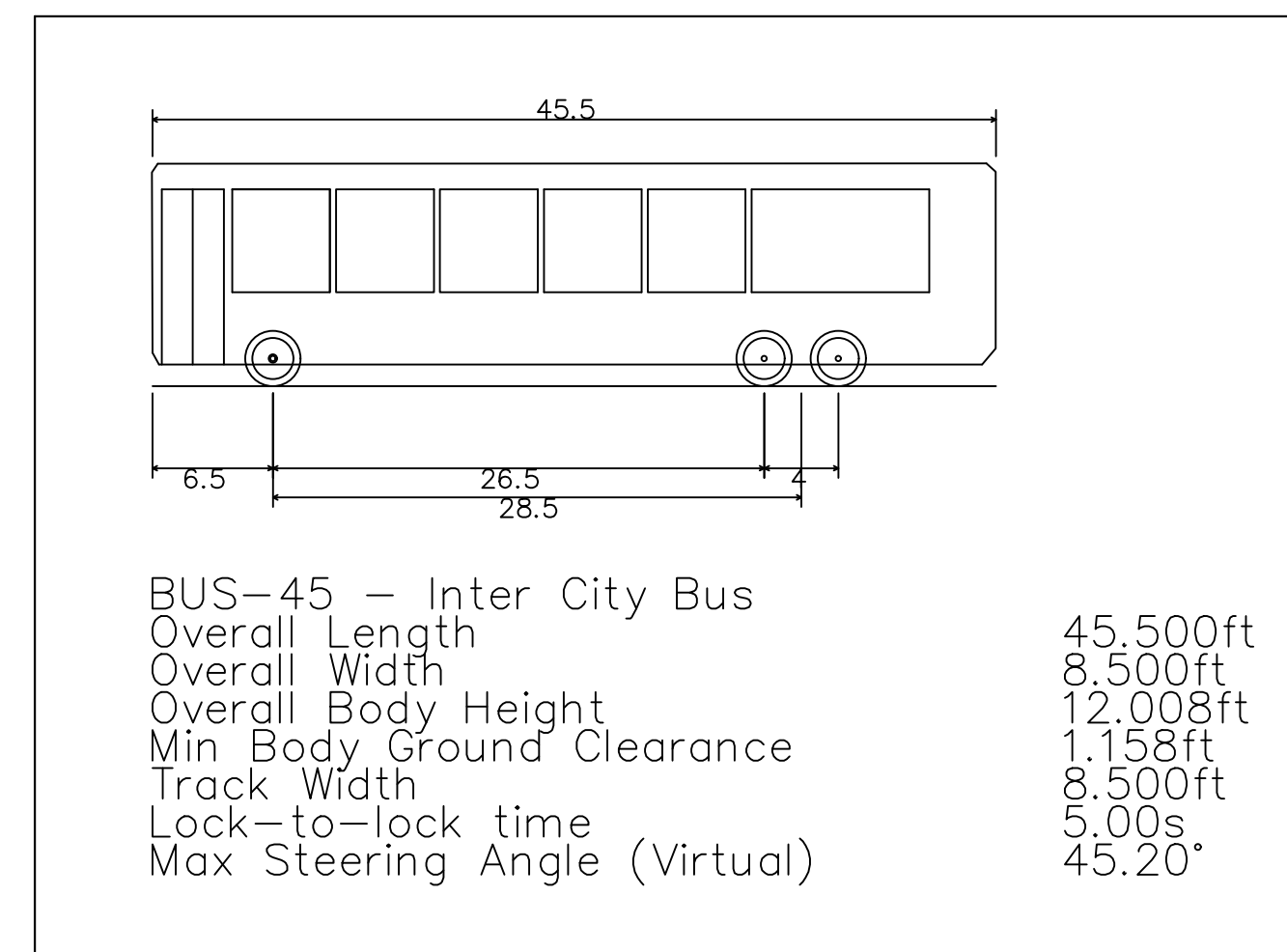
SHEET
 AT-005
 SCALE



BUS ROUTE RIGHT TURN OFF BEAUREGARD ST NB ONTO BRADDOCK RD NB
 DASH: 35
 WMATA: 22F



BUS ROUTE LEFT TURN OFF BRADDOCK RD WB ONTO BEAUREGARD ST SB
 DASH: 35
 WMATA: 22F



90% DESIGN PHASE



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 ALEXANDRIA, VIRGINIA 22313

WEST END TRANSITWAY - PHASE 1 IMPROVEMENTS

REVISIONS	DESCRIPTION
DATE	BY

ALEXANDRIA PROJECT NO.: 110104122
 DATE OF PLAN ISSUANCE: N/A
 CONSULTANT PROJECT ID: N/A
 DESIGNED BY: DATE: _____
 DRAWN BY: DATE: _____
 CHECKED BY: DATE: _____
 APPROVED BY: DATE: _____

TURNING MOVEMENT
 EXHIBITS

SHEET
 AT-006
 SCALE