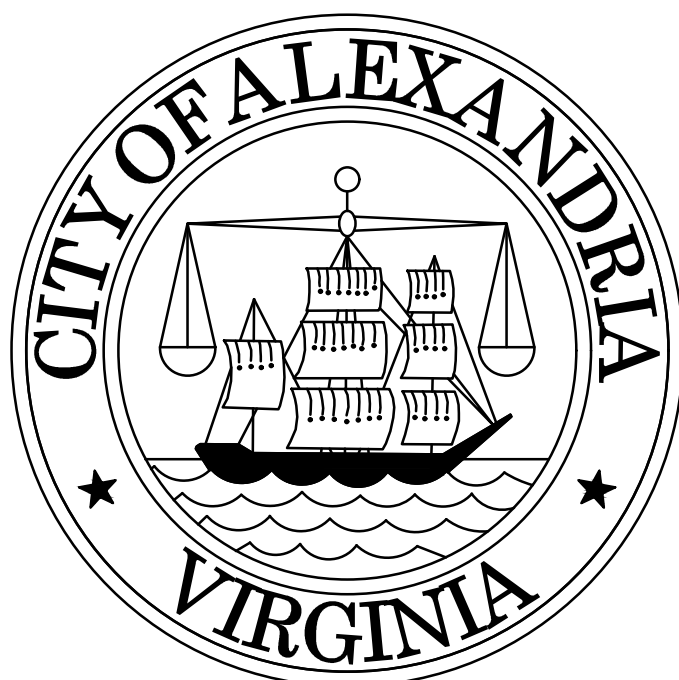
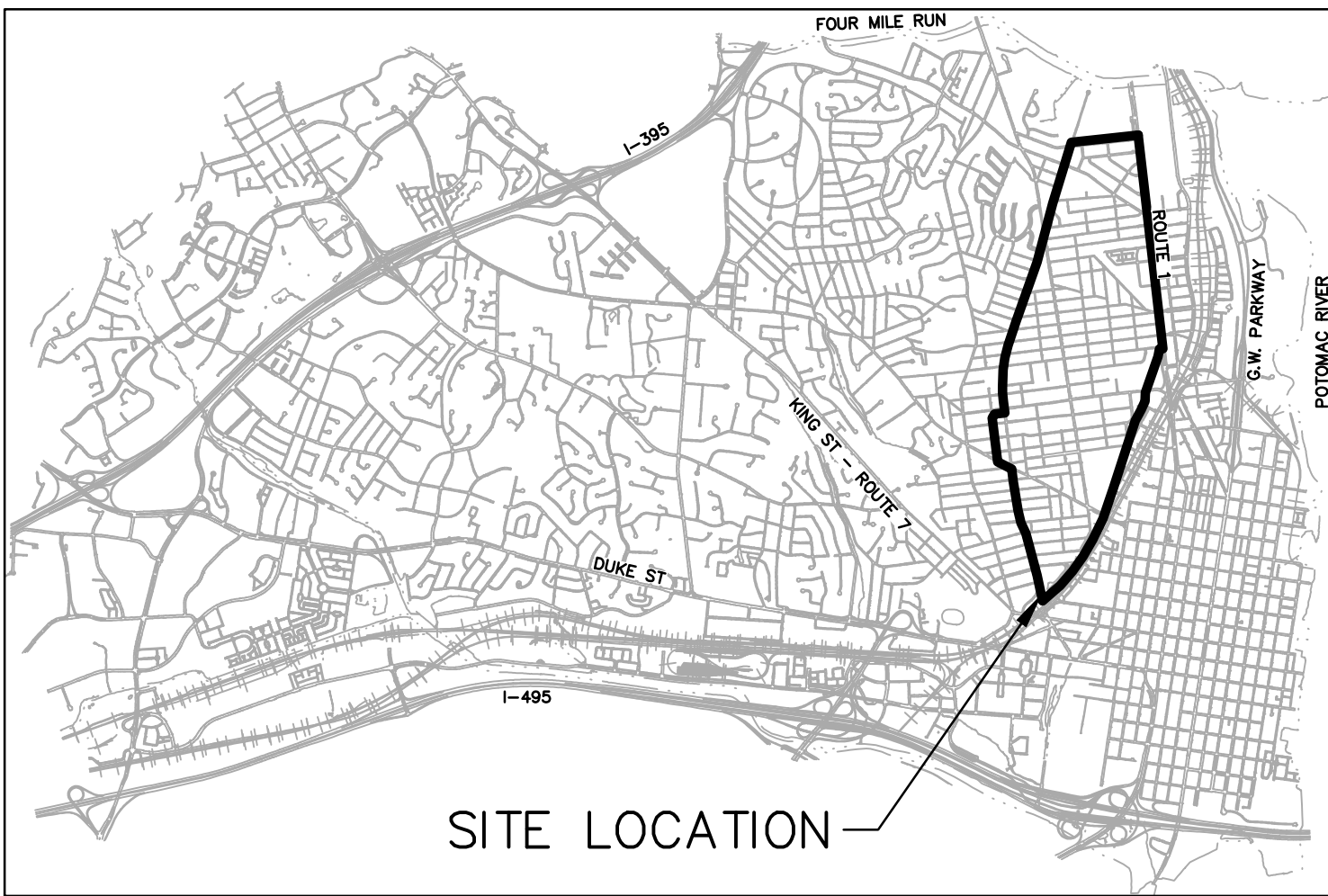


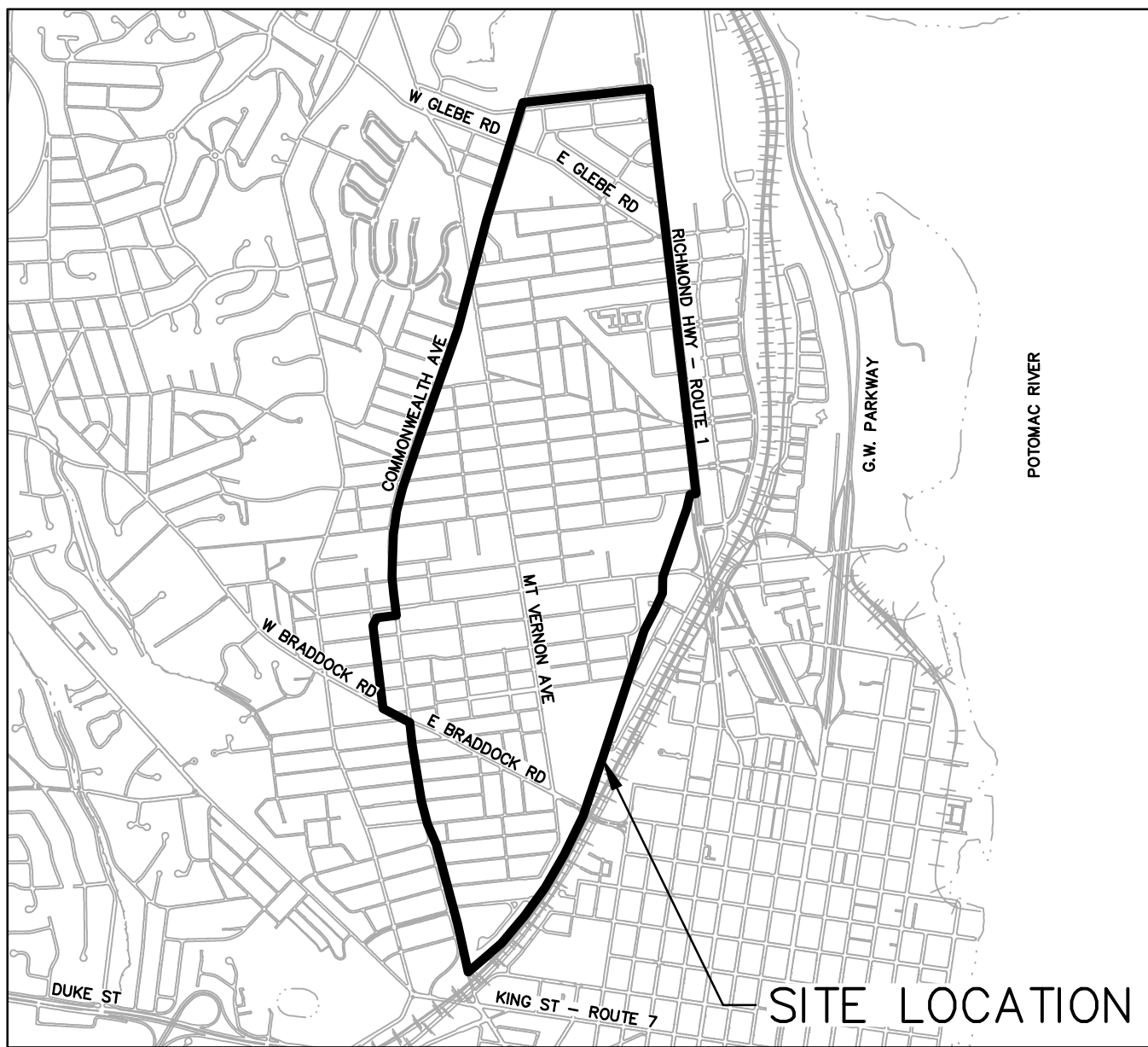


DEL RAY EAST LATERAL REHABILITATION DESIGN

SHEET NUMBER	DRAWING NUMBER	SHEET TITLE
1	C-001	COVER SHEET, SHEET INDEX, VICINITY MAP, AND AREA MAP
2	C-002	GENERAL NOTES, LEGEND, AND ABBREVIATIONS
3	C-200	KEY MAP
4	C-201	SITE PLAN
5	C-202	SITE PLAN
6	C-203	SITE PLAN
7	C-204	SITE PLAN
8	C-205	SITE PLAN
9	C-206	SITE PLAN
10	C-207	SITE PLAN
11	C-208	SITE PLAN
12	C-209	SITE PLAN
13	C-210	SITE PLAN
14	C-211	SITE PLAN
15	C-212	SITE PLAN
16	C-213	SITE PLAN
17	C-214	SITE PLAN
18	C-215	SITE PLAN
19	C-216	SITE PLAN
20	C-217	SITE PLAN
21	C-218	SITE PLAN
22	C-219	SITE PLAN
23	C-220	SITE PLAN
24	C-221	SITE PLAN
25	C-222	SITE PLAN
26	C-223	SITE PLAN
27	C-224	SITE PLAN
28	C-225	SITE PLAN
29	C-226	SITE PLAN
30	C-227	REHABILITATION TABLES
31	C-228	REHABILITATION TABLES
32	C-229	REHABILITATION TABLES
33	C-230	REHABILITATION TABLES
34	C-231	STANDARD DETAILS
35	C-232	EROSION AND SEDIMENT CONTROL NOTES AND DETAILS



VICINITY MAP
SCALE 1" = 4000'



AREA MAP
SCALE 1" = 2000'



PROJECT DESCRIPTION:

THIS PROJECT CONSISTS OF REHABILITATING 373 LATERALS IN THE COMMONWEALTH AND FOUR MILE RUN SEWERSHEDS, FROM EAST OF COMMONWEALTH AVE TO WEST OF ROUTE 1 FOCUSING ON THE DEL RAY NEIGHBORHOOD. REHABILITATION CONSISTS OF CIPP LINING, TOP HATS, AND T-LINERS.

APPROVED

X *Erin Davis Carver* DATE: 8/25/2026

DEPUTY DIRECTOR OF INFRASTRUCTURE & ENVIRONMENTAL QUALITY

X *Waphne Kett* DATE: 08.25.2026

DEPUTY DIRECTOR OF PROJECT IMPLEMENTATION

DEL RAY EAST LATERAL REHABILITATION DESIGN

[illegible]

20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING UNINTERRUPTED TRAFFIC IN LANES AND STREETS THAT REMAIN OPEN. THE TRAFFIC CONTROL SHALL ACCOMMODATE UNINTERRUPTED ACCESS TO SCHOOLS AND RELIGIOUS INSTITUTIONS.
21. ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" ISSUED BY THE U.S. DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION LATEST EDITION.
22. CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING PAVEMENT STRIPING TO THE CONDITION EXISTING PRIOR TO THE START OF THE EXCAVATION. ALL STRIPING MATERIAL SHALL BE THERMOPLASTIC.
23. CONTRACTOR SHALL COORDINATE THE MAINTENANCE OF TRAFFIC PLAN WITH THE ALEXANDRIA FIRE DEPARTMENT.
24. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEVELOPING AND IMPLEMENTING THE TRAFFIC CONTROL PLAN WHICH SHALL COMPLY WITH ALL APPLICABLE STANDARDS AND SPECIFICATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING NECESSARY SIGNAGE, CHANNELIZING DEVICES AND OTHER TRAFFIC CONTROL EQUIPMENT AS WELL AS PERSONNEL THAT MAY BE REQUIRED FOR FLAGGING AND/OR TRAFFIC DIRECTION.
25. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH THE CITY AND OTHER APPLICABLE ORGANIZATIONS HAVING JURISDICTION OVER THE WORK AREA WITH REGARD TO OBTAINING APPROVAL OF THE MAINTENANCE OF TRAFFIC PLAN, RIGHT-OF-WAY PERMIT, AND ANY OTHER REQUIRED PERMITS.

1. HORIZONTAL DATUM: NORTH AMERICAN DATUM (NAD) 1983
VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM (NAVD) 1988
2. SANITARY SEWER AND STORM SEWER UTILITY INFORMATION, AS SHOWN ON THE PLANS, IS TAKEN FROM GEOGRAPHICAL INFORMATION SYSTEM (GIS) AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING THE EXACT LOCATION IN THE FIELD OF ALL ABOVE AND BELOW GROUND UTILITIES. 72 HOURS BEFORE THE START OF ANY EXCAVATION OR CONSTRUCTION CONTRACTOR SHALL CONTACT "MISS UTILITY" AT 800-552-7001 OR 811. THE CONSTRUCTION WORKERS AND CONTRACTOR(S) SHALL VISIT DOMINION VIRGINIA POWER WEB SITE AT WWW.DOM.COM (KEYWORD SAFETY) FOR ADDITIONAL SAFETY INSTRUCTIONS.
3. IF REQUIRED, LOCATION AND DEPTH OF ALL EXISTING UNDERGROUND UTILITIES TO BE VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHOULD DIG TEST PITS BY HAND AT ALL UTILITY CROSSINGS TO VERIFY EXACT LOCATION. IF NEEDED, ALL TEST PITS SHALL BE MADE WITHIN TWO WEEKS OF NOTICE TO PROCEED AND AT CONTRACTOR'S EXPENSE.
4. LATERAL REHABILITATIONS ARE SHOWN ON THE PLAN TO EXTEND BEYOND THE CURB LINE WHERE CITY'S RESPONSIBILITY ENDS. CIPP LINING AND T-LINER REHABILITATION SHALL BEGIN AT THE MAINLINE CONNECTION AND END AT THE CURB LINE.

5. ALL REQUIRED STATE AND FEDERAL PERMITS, WHICH COULD INCLUDE PERMITS FROM THE VIRGINIA DEPARTMENT OF CONSERVATION AND RECREATION (VDCR), VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY (VDEQ), VIRGINIA DEPARTMENT OF HISTORIC RESOURCES (VDH), UNITED STATES ENVIRONMENTAL PROTECTION AGENCY (USEPA), ARMY CORPS OF ENGINEERS AND VIRGINIA MARINE RESOURCES, MUST BE IN PLACE FOR ALL PROJECT CONSTRUCTION AND MITIGATION WORK PRIOR TO BEGINNING OF CONSTRUCTION. THIS INCLUDES THE STATE REQUIREMENT FOR A VIRGINIA STORMWATER MANAGEMENT PROGRAM (VSPM) GENERAL PERMIT FOR DISCHARGES OF STORMWATER FROM CONSTRUCTION ACTIVITIES FOR LAND DISTURBING ACTIVITIES GREATER THAN 2,500 SQ. FT. INFORMATION REGARDING THE VSPM GENERAL PERMIT CAN BE FOUND ONLINE AT: [HTTP://WWW.DCR.VIRGINIA.GOV/soil_and_water/vspmp.shtml](http://www.dcr.virginia.gov/soil_and_water/vspmp.shtml).
6. ANY WORK IN THE PUBLIC RIGHT OF WAY SHALL REQUIRE A SEPARATE PERMIT FROM THE DIRECTOR, TRANSPORTATION AND ENVIRONMENTAL SERVICES. THE CONTRACTOR CAN CONTACT THE DEPARTMENT OF TRANSPORTATION AND ENVIRONMENTAL SERVICES AT 703-746-4025 FOR ANY QUESTIONS OR ADDITIONAL INFORMATION.

- T-LINER WILL BEGIN AT THE MAINLINE CONNECTION AND END AT THE CURB LINE WITHOUT A CLEAN OUT.
8. ALL CONSTRUCTION ACTIVITIES MUST COMPLY WITH THE ALEXANDRIA NOISE CONTROL CODE TITLE 11, CHAPTER 5, WHICH PERMIT CONSTRUCTION ACTIVITIES TO OCCUR BETWEEN THE FOLLOWING HOURS:
 - A. MONDAY THROUGH FRIDAY FROM 7:00AM TO 6:00PM
 - B. SATURDAYS FROM 9:00AM TO 6:00PM.
 - C. NO CONSTRUCTION ACTIVITIES ARE PERMITTED ON SUNDAYS.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING AND ACQUIRING A CONSTRUCTION STAGING AREA. THE CONTRACTOR SHALL SUBMIT THE PROPOSED LOCATION OF THE STAGING AREA FOR APPROVAL TO THE DIRECTOR OF TRANSPORTATION AND ENVIRONMENTAL SERVICES (T&ES) TWO WEEKS PRIOR TO MOBILIZATION.
9. THE CONTRACTOR IN PREPARATION OF THE BID, SHALL MAKE FIELD EXAMINATION AT THE CONSTRUCTION SITE TO OBTAIN INFORMATION ON SITE CONDITIONS INCLUDING BUT NOT LIMITED TO EXISTING PAVEMENT, CURB AND GUTTER, SIDEWALKS, LAWN AREAS, FENCES, EXISTING ABOVE GROUND UTILITIES, ACCESS TO SEWERS, TRAFFIC CONTROL REQUIREMENTS, AND ELEVATIONS. ANY DAMAGE CAUSED TO THE CITY'S PUBLIC INFRASTRUCTURE BY THE CONTRACTOR'S ACTIVITIES RELATED TO CONSTRUCTION SHALL BE REPAIRED TO THE SATISFACTION OF DIRECTOR, TRANSPORTATION AND ENVIRONMENTAL SERVICES (T&ES).
10. CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING ALL DISTURBED AREAS TO THE CONDITION EXISTING PRIOR TO START OF CONSTRUCTION OR TO THE CURRENT CITY OF ALEXANDRIA STANDARDS AND SPECIFICATIONS.
11. ALL STREET CUT AND PATCH WORK LOCATED IN PUBLIC RIGHT-OF-WAYS, REQUIRED FOR ANY UTILITY INSTALLATION SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE CITY OF ALEXANDRIA STANDARDS AND SPECIFICATIONS AND TO THE SATISFACTION OF THE DIRECTOR OF TRANSPORTATION AND ENVIRONMENTAL SERVICES (T&ES). ALL PAVEMENT PATCHES SHALL AT A MINIMUM MATCH EXISTING PAVEMENT MATERIAL THICKNESS AND SHALL BE IN ACCORDANCE WITH CITY OF ALEXANDRIA STANDARD DETAIL CSPS-1 OR CSPS-2 AS APPLICABLE.
12. PRIOR TO THE ISSUANCE OF A LAND DISTURBANCE PROJECT, A RODENT ABATEMENT PLAN SHALL BE SUBMITTED TO THE CITY OF ALEXANDRIA CODE ENFORCEMENT THAT WILL OUTLINE THE STEPS THAT ARE TO BE TAKEN TO PREVENT THE SPREAD OF RODENTS FROM THE CONSTRUCTION SITE TO THE SURROUNDING COMMUNITY AND SEWERS.
13. THE CONTRACTOR SHALL FIELD COORDINATE WITH THE INSPECTOR OR THE CITY OF ALEXANDRIA FOR ACCESS ON PRIVATE PROPERTY OF ANY INFRASTRUCTURE OR BURIED MANHOLES.
14. LINEAR FEET AND QUANTITIES PROVIDED ARE FOR INFORMATIONAL PURPOSES ONLY. CONTRACTOR SHALL FIELD VERIFY TOTAL LINEAR FOOTAGE AND IDENTIFY THE LOCATION OF ALL EXISTING AND CONFIRMED ACTIVE SEWER CONNECTIONS AND ANY OTHER LATERALS TO BE REINSTATED.
15. CONTACT URBAN FORESTRY FOR ANY IMPACT TO CITY TREES. THIS WILL INCLUDE ANY NEEDED PRUNING OF BRANCHES, ROOT PRUNING, OR DAMAGE CAUSED BY EQUIPMENT. IF A CITY TREE IS DAMAGE BY EQUIPMENT AND REMOVAL IS NEEDED BECAUSE OF THE DAMAGE, A TREE REPLACEMENT IS REQUIRED IN COMPLIANCE WITH THE LANDSCAPE GUIDELINES OF THE CITY OF ALEXANDRIA.

16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING UNINTERRUPTED SANITARY SEWER SERVICE TO ALL THE CUSTOMERS THAT MAY BE IMPACTED BY THE CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE 24/7 BYPASS PUMPING AND/OR PUMPING AND HAULING THAT MAY BE NECESSARY TO MAINTAIN SERVICE THROUGH THE CONSTRUCTION PERIOD AT EACH SITE, INCLUDING WEEKENDS AND HOLIDAYS. THE CONTRACTOR SHALL IDENTIFY A BYPASS ROUTE THAT AVOIDS PASSING BYPASS EQUIPMENT OVER VAN DORN STREET.

17. UNLESS PROHIBITED BY CONSTRUCTION ACTIVITY, ALL SIDEWALKS SHALL REMAIN OPEN AND PEDESTRIAN ACCESS SHALL BE MAINTAINED TO THE SATISFACTION OF THE DIRECTOR OF TRANSPORTATION AND ENVIRONMENTAL SERVICES THROUGHOUT THE CONSTRUCTION OF THE PROJECT.
18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TRAFFIC CONTROL DURING CONSTRUCTION FOR TRAFFIC MOVEMENT, LANE CLOSURES, HAUL ROUTES, STORAGE AND STAGING. CONTRACTOR SHALL MINIMIZE THE IMPACT OF CONSTRUCTION OPERATIONS ON SURFACE TRAFFIC (BOTH VEHICULAR AND PEDESTRIAN), AND ADJACENT BUILDING OPERATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FOLLOWING THE STANDARDS AND GUIDELINES FOR TEMPORARY TRAFFIC CONTROL IN THE "VIRGINIA WORK AREA PROTECTION MANUAL".
19. CONTRACTOR SHALL PROVIDE ALL LANE CLOSURE, ROAD CLOSURE AND DETOUR PLANS REQUIRED FOR CONSTRUCTION OF THE NEW WORK AND SHALL BE RESPONSIBLE FOR OBTAINING ALL CITY APPROVALS FOR MAINTENANCE OF TRAFFIC PLANS.

26. UNDERGROUND UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE. CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING THE ACTUAL UTILITY LOCATION. ANY DAMAGE CAUSED TO THE EXISTING UTILITIES DUE TO CONTRACTORS ACTIVITIES SHALL BE REPAIRED AT CONTRACTORS EXPENSE.
27. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXISTING UTILITIES AND MAINTAINING UNINTERRUPTED SERVICE TO ALL THE CUSTOMERS. RELOCATION OF EXISTING UTILITIES DURING CONSTRUCTION SHALL BE AT CONTRACTOR'S EXPENSE AND SHALL BE COORDINATED WITH THE UTILITY OWNER(S). ANY DAMAGE CAUSED DURING CONSTRUCTION SHALL BE REPAIRED AND SERVICE BE RESTORED IMMEDIATELY TO THE SATISFACTION OF THE UTILITY OWNER AT THE CONTRACTOR'S EXPENSE.
28. UNDERGROUND UTILITY LINES SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING MINIMUM STANDARDS DESCRIBED IN SECTION 4VACS0-30-40 OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK (VESCH) AND ADDITIONAL APPLICABLE PRACTICES FOLLOWED BY THE CITY OF ALEXANDRIA.
29. ALL SANITARY SEWERS SHALL BE CONSTRUCTED TO THE CITY OF ALEXANDRIA STANDARDS AND SPECIFICATIONS UNLESS SPECIFICALLY STATED ON THE PLANS. THE ACCEPTABLE PIPE MATERIAL SHALL BE PVC SDR-26. LATERALS SHALL BE CONNECTED TO THE SANITARY SEWER THROUGH A MANUFACTURED "Y" OR "T" OR APPROVED SEWER SADDLE IN ACCORDANCE WITH CITY OF ALEXANDRIA STANDARD DETAIL CSLC-1B.

30. LATERAL SEPARATION OF SEWERS AND WATER MAINS: A HORIZONTAL SEPARATION OF 1'0" (EDGE TO EDGE) SHALL BE PROVIDED BETWEEN A STORM OR SANITARY SEWER AND A WATER LINE; HOWEVER, IF THIS HORIZONTAL SEPARATION CANNOT BE ACHIEVED THEN THE SEWER AND WATER MAIN SHALL BE INSTALLED IN SEPARATE TRENCHES AND THE BOTTOM OF THE WATER MAIN SHALL BE AT LEAST 18" ABOVE OF THE TOP OF THE SANITARY SEWER. IF BOTH THE HORIZONTAL AND VERTICAL SEPARATIONS CANNOT BE ACHIEVED THEN THE SEWER PIPE MATERIAL SHALL BE DUCTILE IRON PIPE (DIP) AWWA C-151 (ANSI A21.51) CLASS 52 AND PRESSURE TESTED IN PLACE WITHOUT LEAKAGE PRIOR TO INSTALLATION.

31. CROSSING WATER MAIN OVER AND UNDER A SANITARY OR STORM SEWER: WHEN A WATER MAIN OVER CROSSES OR UNDER CROSSES A SANITARY OR STORM SEWER THEN THE VERTICAL SEPARATION BETWEEN THE BOTTOM OF ONE (I.E., SANITARY SEWER OR WATER MAIN) TO THE TOP OF THE OTHER (WATER MAIN OR SANITARY SEWER) SHALL BE AT LEAST 18" FOR SANITARY SEWER AND 12" FOR STORM SEWER; HOWEVER, IF THIS CANNOT BE ACHIEVED THEN BOTH THE WATER MAIN AND SANITARY SEWER SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE (DIP) AWWA C-151 (ANSI A21.51) CLASS 52 WITH JOINTS THAT ARE EQUIVALENT TO WATER MAIN STANDARDS FOR A DISTANCE OF 10' ON EACH SIDE OF THE POINT OF CROSSING. A SECTION OF WATER MAIN PIPE SHALL BE CENTERED AT THE POINT OF CROSSING AND THE PIPES SHALL BE PRESSURE TESTED IN PLACE WITHOUT LEAKAGE PRIOR TO INSTALLATION. SANITARY SEWERS UNDER CREEKS AND STORM SEWER PIPE CROSSINGS WITH LESS THAN 6" CLEARANCE SHALL BE ENCASED IN CONCRETE.

32. NO WATER MAIN PIPE SHALL PASS THROUGH OR COME IN CONTACT WITH ANY PART OF SANITARY SEWER MANHOLE. MANHOLES SHALL BE PLACED AT LEAST 5' HORIZONTALLY FROM THE WATER MAIN WHENEVER POSSIBLE. WHEN LOCAL CONDITIONS PROHIBIT THIS HORIZONTAL SEPARATION, THE MANHOLE SHALL BE WATERTIGHT CONSTRUCTION AND TESTED IN PLACE.

33. CROSSING EXISTING DUCT OR PROPOSED UTILITIES: UNDERGROUND TELEPHONE, CABLE, T.V., GAS AND ELECTRICAL DUCT BANKS SHALL BE CROSSED BY MAINTAINING A MINIMUM OF 12" SEPARATION OR CLEARANCE WITH WATER MAIN, SANITARY, OR STORM SEWERS. IF THIS SEPARATION CANNOT BE ACHIEVED THEN THE SEWER PIPE MATERIAL SHALL BE DUCTILE IRON PIPE (DIP) AWWA C-151 (ANSI A21.51) CLASS 52 FOR A DISTANCE OF 10 FEET ON EACH SIDE OF THE POINT OF CROSSING AND PRESSURE TESTED IN PLACE WITHOUT LEAKAGE PRIOR TO INSTALLATION. SANITARY SEWERS AND WATER MAIN CROSSING OVER THE UTILITIES SHALL HAVE ADEQUATE STRUCTURAL SUPPORT (PIER SUPPORT AND/OR CONCRETE ENCASEMENT) TO PREVENT DAMAGE TO THE UTILITIES.

34. THE CONTRACTOR SHALL CONFORM TO THE PROVISION AS SPECIFIED IN THE CURRENT VIRGINIA ADMINISTRATIVE CODE (VAC) SECTION 20VAC5-309-140, EXCAVATOR'S RESPONSIBILITIES TO AVOID DAMAGE, DISLOCATING OR DISTURBANCES OF UTILITY LINES.

35. ANY PERSON EXCAVATING AROUND UNDERGROUND UTILITY LINES SHALL TAKE ALL REASONABLE STEPS TO PROTECT SUCH UTILITY LINES. THESE STEPS SHALL INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:

- A. THE EXCAVATOR SHALL PLAN THE EXCAVATION IN SUCH A MANNER TO AVOID DAMAGE TO, AND MINIMIZE INTERFERENCE WITH, UNDERGROUND UTILITY LINES IN AND NEAR THE CONSTRUCTION AREA;
- B. THE EXCAVATOR SHALL EXPOSE THE UNDERGROUND UTILITY LINE TO ITS EXTREMITIES BY HAND DIGGING WITHIN THE EXCAVATION AREA WHEN EXCAVATION IS EXPECTED TO COME WITHIN TWO FEET OF THE MARKED LOCATION OF THE UNDERGROUND UTILITY LINE;
- C. THE EXCAVATOR SHALL NOT UTILIZE MECHANIZED EQUIPMENT WITHIN TWO FEET OF THE EXTREMITIES OF ALL EXPOSED UTILITY LINES;
- D. THE EXCAVATOR SHALL MAINTAIN A REASONABLE CLEARANCE, TO INCLUDE THE WIDTH OF THE UTILITY LINE, IF KNOWN, PLUS 24 INCHES, BETWEEN THE MARKED OR STAKED LOCATION OF AN UNDERGROUND UTILITY LINE AND THE CUTTING EDGE OR POINT OF ANY MECHANIZED EQUIPMENT, CONSIDERING THE KNOWN LIMIT OF CONTROL OF THE CUTTING EDGE OR POINT TO AVOID DAMAGE TO THE UTILITY LINE; AND
- E. THE EXCAVATOR SHALL PROVIDE PROPER SUPPORT FOR UNDERGROUND UTILITY LINES DURING EXCAVATION ACTIVITIES. DURING BACKFILL OPERATIONS, THE EXCAVATOR SHALL USE THE SAME OR SIMILAR BACKFILL MATERIAL THAT WAS ORIGINALLY AROUND THE UTILITY LINE, ENSURE THERE IS PROPER COMPACTION AROUND THE UTILITY LINE, PROTECT ALL TRACER WIRES, AND PROTECT OR REPLACE WARNING TAPES.

WASHINGTON GAS	(703) 750-1000, GAS LEAK: (703) 750-4831
VIRGINIA AMERICAN WATER COMPANY	(800) 452-6863
COMCAST	(800) 934-6489
COX	(866) 744-0179
VERIZON	(800) 837-4966
RCN	(800) 746-4726
DOMINION	(866) 366-4357

36. MATERIAL USED FOR BACKFILLING TRENCHES SHALL BE PROPERLY COMPACTED IN ACCORDANCE WITH THE CITY OF ALEXANDRIA STANDARDS AND SPECIFICATIONS TO MINIMIZE EROSION AND PROMOTE STABILIZATION.
37. RESTABILIZATION SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE VIRGINIA REGULATIONS §4VAC50-30 EROSION AND SEDIMENT CONTROL REGULATIONS, VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK (VESCH).
38. CONTRACTOR SHALL PROVIDE TEST PITS FOR ALL SHAFT EXCAVATIONS IN ACCORDANCE WITH THE SPECIFICATIONS TO LOCATE ALL UTILITIES PRIOR TO DESIGNING AND INSTALLING EXCAVATION SUPPORT SYSTEM.
39. CONTRACTOR SHALL KEEP ACCURATE RECORDS OF SIZE, TYPE, DEPTH AND LOCATION OF ALL UTILITIES ENCOUNTERED DURING TEST PIT EXCAVATIONS.
40. NO GEOTECHNICAL INVESTIGATIONS NOR BORINGS HAVE BEEN CONDUCTED FOR THIS PROJECT.
41. CONTRACTOR SHALL REMOVE, CONTAIN, TEST AND DISPOSE OF SURPLUS EXCAVATED SOILS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

42. IF THERE ARE NO TIDAL WETLANDS, TIDAL SHORES, TRIBUTARY STREAMS, FLOODPLAINS, CONNECTED TIDAL WETLANDS, ISOLATED WETLANDS, HIGHLY ERODIBLE OR PERMEABLE SOILS OR BUFFER AREAS ASSOCIATED WITH SHORES, STREAMS, OR WETLANDS LOCATED ON THIS SITE, NO ACTION IS NEEDED. FURTHER, NO WETLAND PERMITS ARE REQUIRED FOR THIS DEVELOPMENT PROJECT.

SENSITIVE AREAS AND GET PRIOR APPROVAL FOR WORK DONE WITHIN THE PROJECT SITE.

RESOURCE PROTECTION AREA NOTES:

44. IF THE PROJECT AREA DOES NOT LIE WITHIN THE CITY OF ALEXANDRIA RESOURCE PROTECTION AREA (RPA) AND THERE ARE NO MAPPED RPA'S ON THE PROJECT PROPERTIES, NO FURTHER ACTION IS REQUIRED.

THE CHESAPEAKE BY PRESERVATION ACT, AND THE VIRGINIA DEPARTMENT OF CONSERVATION AND RECREATION REGULATIONS AS STATED IN SECTION 9 VAC 10-20-130.

46. IF THE SITE DOES NOT LIE WITHIN THE 100-YEAR FLOODPLAIN WATER SURFACE ELEVATION (WSE) PER THE DEMARCATION OF THE CURRENT FLOOD INSURANCE RATE MAP (FIRM) PUBLISHED BY FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA), NO FURTHER ACTION IS REQUIRED.

47. IF THE SITE DOES LIE WITHIN THE 100-YEAR FLOODPLAIN INDICATE FLOOD RISK AREA ZONE AND ENSURE ALL STATE AND LOCAL AGENCY REQUIREMENTS ARE FOLLOWED TO PROTECT THE SITE AND UTILITY.

48. ALL REQUIRED ARCHAEOLOGICAL PRESERVATION MEASURES SHALL BE COMPLETED PRIOR TO GROUND-DISTURBING ACTIVITIES (SUCH AS CORING, GRADING, FILLING, VEGETATION REMOVAL, UNDERGROUNDING UTILITIES, PILE DRIVING, LANDSCAPING AND OTHER EXCAVATIONS AS DEFINED IN SECTION 2-151 OF THE ZONING ORDINANCE) OR A RESOURCE MANAGEMENT PLAN MUST BE IN PLACE TO PRESERVE AND/OR RECOVER SIGNIFICANT RESOURCES IN CONCERT WITH CONSTRUCTION ACTIVITIES. TO CONFIRM, CALL ALEXANDRIA ARCHAEOLOGY AT 703-838-4399.

49. CALL ALEXANDRIA ARCHAEOLOGY AT 703-838-4399 TWO WEEKS BEFORE THE STARTING DATE OF ANY GROUND DISTURBANCE SO THAT AN INSPECTION OR MONITORING SCHEDULE FOR CITY ARCHAEOLOGISTS CAN BE ARRANGED.

50. THE APPLICANT SHALL CALL ALEXANDRIA ARCHAEOLOGY AT 703-838-4399 IMMEDIATELY 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.

51. THE APPLICANT SHALL NOT ALLOW ANY METAL DETECTION AND/OR ARTIFACT COLLECTION TO BE CONDUCTED ON THE PROPERTY, UNLESS AUTHORIZED BY ALEXANDRIA ARCHAEOLOGY. FAILURE TO COMPLY SHALL RESULT IN PROJECT DELAYS.

52. AN EROSION AND SEDIMENT CONTROL PLAN IS NOT REQUIRED FOR THIS PROJECT BECAUSE THE PROJECT IS FOR INSTALLATION, MAINTENANCE, OR REPAIR OF UNDERGROUND PUBLIC UTILITY LINES IN AN EXISTING HARD-SURFACED ROAD AND, THEREFORE, IS NOT A VESCP LAND DISTURBING ACTIVITY.

53. MINIMIZE THE DISCHARGE OF POLLUTANTS FROM EQUIPMENT AND VEHICLE WASHING, WHEEL WASH WATER, AND OTHER WASH WATERS;

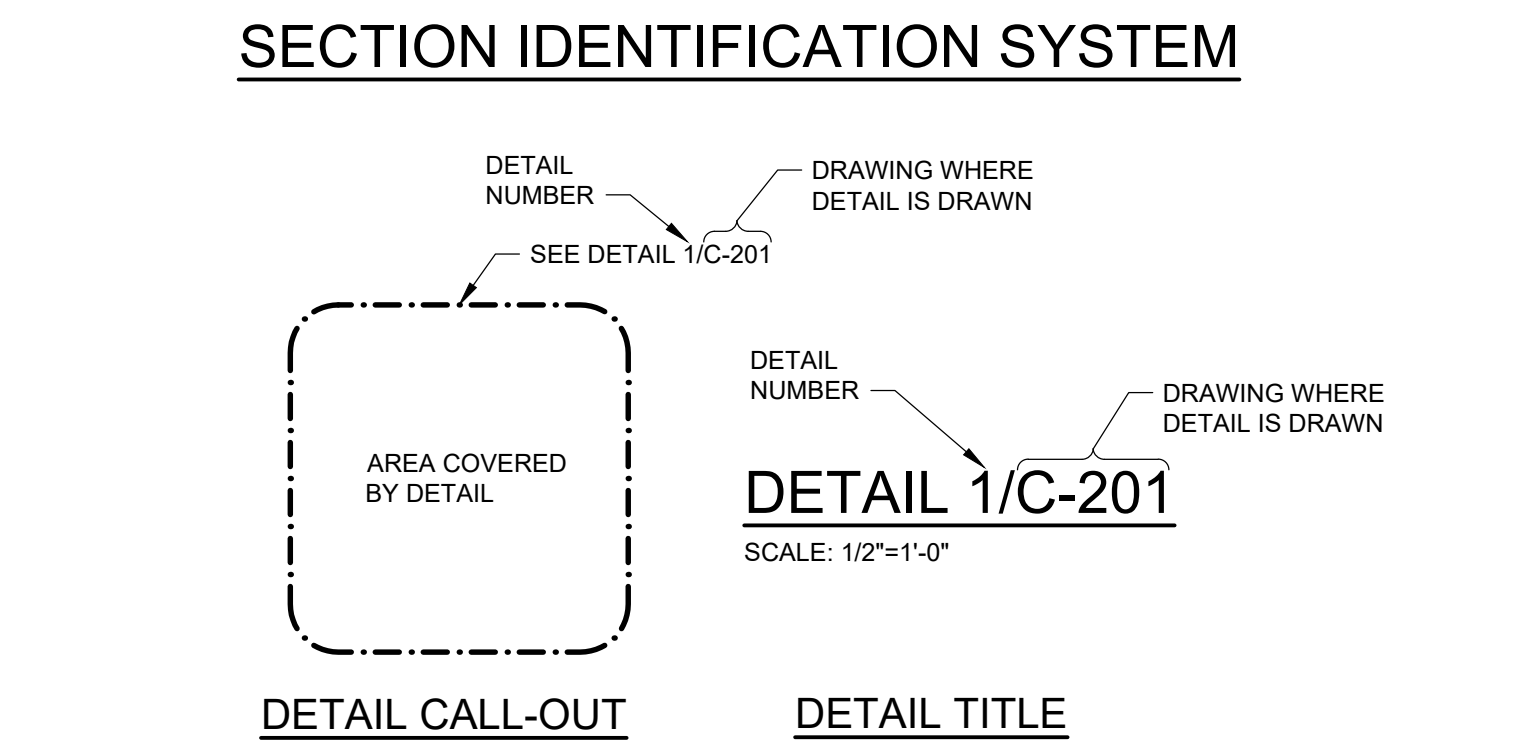
WASTES, TRASH, LANDSCAPE MATERIALS, FERTILIZERS, PESTICIDES, HERBICIDES, DETERGENTS, SANITARY WASTE, AND OTHER MATERIALS PRESENT ON-SITE TO PRECIPITATION AND TO STORMWATER;

55. MINIMIZE THE DISCHARGE OF POLLUTANTS FROM SPILLS AND LEAKS AND IMPLEMENT CHEMICAL SPILL AND LEAK PREVENTION AND RESPONSE PROCEDURES;

56. PROHIBIT THE DISCHARGE OF WASTEWATER FROM THE WASHOUT OF CONCRETE;

57. PROHIBIT THE DISCHARGE OF WASTEWATER FROM THE WASHOUT AND CLEANOUT OF STUCCO, PAINT, FORM RELEASE OILS, CURING COMPOUNDS, AND OTHER CONSTRUCTION MATERIALS; AND

58. PROHIBIT THE DISCHARGE OF FUELS, OILS, OR OTHER POLLUTANTS USED IN VEHICLE AND EQUIPMENT OPERATION AND MAINTENANCE.



DETAIL IDENTIFICATION SYSTEM

	EXISTING SANITARY SEWER AND MANHOLE
	EXISTING SANITARY LATERAL
	EXISTING SANITARY LATERAL REHABILITATION
	SILT FENCE
	LIMITS OF DISTURBANCE
	100-YEAR FLOODPLAIN
	SUPPORT OF EXCAVATION LIMITS
	PROPERTY LINE
	SANITARY SEWER TO BE REHABILITATED
	EXISTING SANITARY SEWER CONNECTING LATERAL REHABILITATION

AVG	AVERAGE	LBS	POUNDS
£	CENTERLINE	LF	LINEAR FOOT/FEET
C/C	CENTER TO CENTER	MAX	MAXIMUM
CB	CATCH BASIN	MH	MANHOLE
CI	CAST IRON	MIN	MINIMUM
CIPP	CURED-IN-PLACE PIPE	MJ	MECHANICAL JOINT
CLR	CLEARANCE	NO.	NUMBER
COMB	COMBINE	OC	ON CENTER
CONC	CONCRETE	OD	OUTSIDE DIAMETER
CONT	CONTINUOUS	PSF	POUNDS PER SQUARE FOOT
CP	CONCRETE PIPE	PSI	POUNDS PER SQUARE INCH
DIA	DIAMETER	PVC	POLYVINYL CHLORIDE
DWP	DUCTILE IRON PIPE	RCP	REINFORCED CONCRETE PIPE
DWG	DRAWING	ROW	RIGHT-OF-WAY
EL	ELEVATION	RPA	RESOURCE PROTECTION AREA
EX	EXISTING	SAN	SANITARY
FC	FACE OF CURB	SQ	SQUARE
F/F	FACE TO FACE	SS	STAINLESS STEEL
FEMA	FEDERAL EMERGENCY MANAGEMENT AGENCY	STM	STORM
FIRM	FLOOD INSURANCE RATE MAP	S/W	SIDEWALK
FL	FLANGE	T&S	TRANSPORTATION AND ENVIRONMENTAL
FT	FOOT (FEET)		SERVICES
FM	FORCE MAIN	TBD	TO BE DETERMINED
GV	GRV VALVE	TOC	TOP OF CONCRETE
ID	INSIDE DIAMETER	TYP	TYPICAL
IN	INCH (INCHES)	U.N.O.	UNLESS NOTED OTHERWISE
INV	INVERT	VCP	VITRIFIED CLAY PIPE
JT	JOINT	VESCH	VIRGINIA EROSION AND SEDIMENT CONTROL
			HANDBOOK

DEL RAY EAST LATERAL REHABILITATION DESIGN



REVISIONS	
DATE	DESCRIPTION
—	ALEXANDRIA PROJECT NO.:
—	DATE OF PLAN ISSUANCE:
—	CONSULTANT PROJECT ID.:
—	DESIGNED BY: PEE DATE:
—	DRAWN BY: TSM DATE:
—	CHECKED BY: AJM DATE:
—	APPROVED BY: — DATE:



GENERAL NOTES, LEGEND AND ABBREVIATIONS

C-002

SHEET

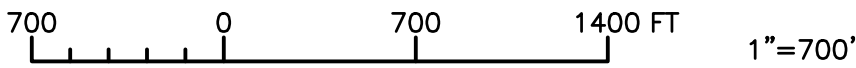
2 OF 35

SCALE AS SHOWN

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PLOTED: 7/20/2026 12:03:46 PM BY SAMIM TASAL



KEY MAP
SCALE: 1"=700'



DEL RAY EAST LATERAL REHABILITATION DESIGN

100% SUBMITTAL

KEY MAP		REVISIONS		
		DATE	DESCRIPTION	
C-200				
SHEET				
3 OF 35				
SCALE	AS SHOWN			

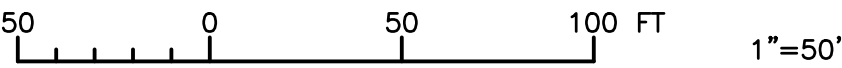
CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22314

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PLOTTED: 7/20/2026 12:09:45 PM BY SAMIM TASAL



MATCHLINE - SEE DWG C-203

SITE PLAN
SCALE: 1"=50'



MATCHLINE - SEE DWG C-202

DEL RAY EAST LATERAL REHABILITATION DESIGN

100% SUBMITTAL



SITE PLAN

C-201

SHEET
4 OF 35

SCALE AS SHOWN

REVISIONS	
DATE	DESCRIPTION

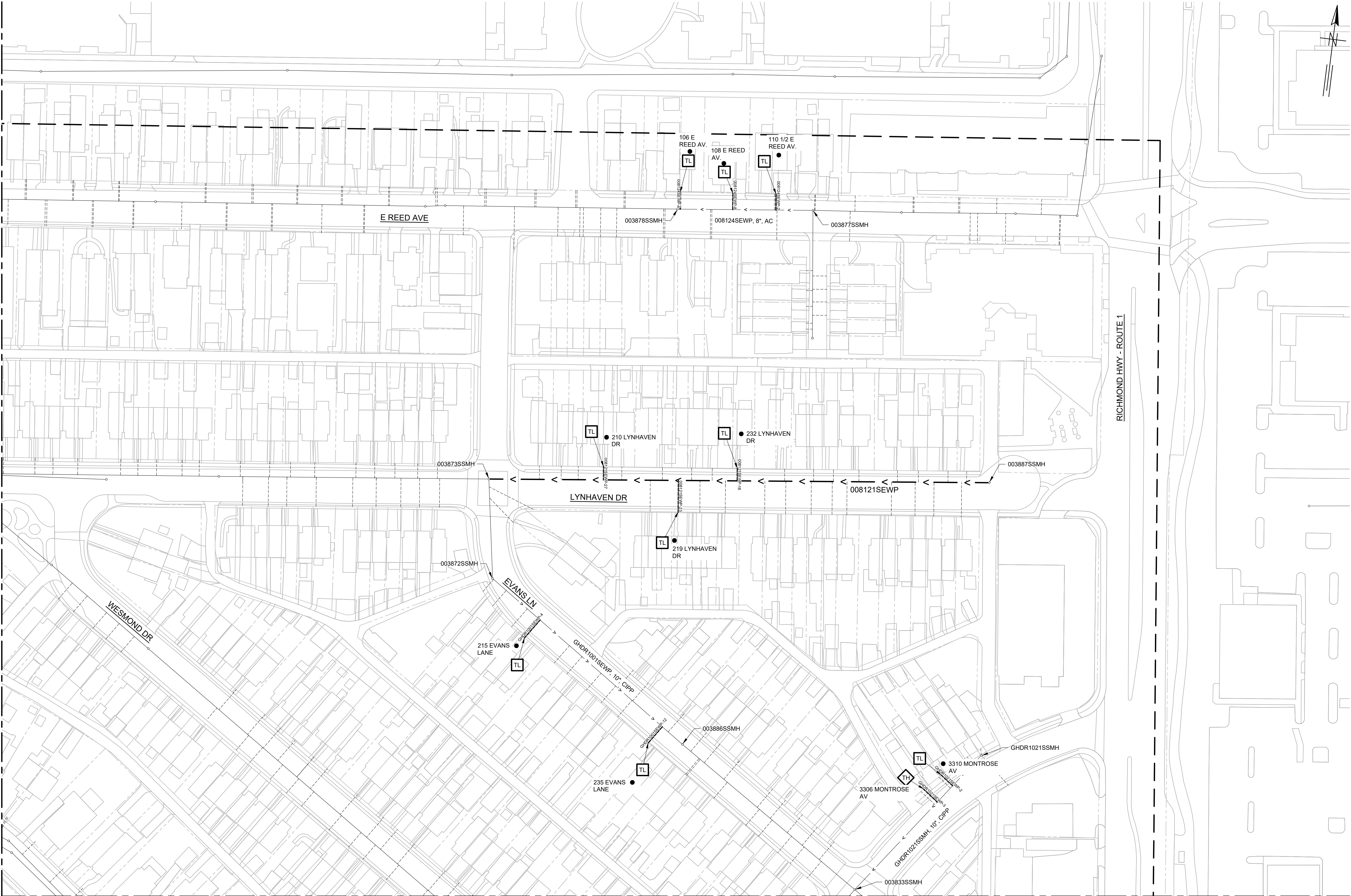
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—	DATE OF PLAN ISSUANCE:
—	CONSULTANT PROJECT ID.:
—	DESIGNED BY: PEE DATE:
—	DRAWN BY: TSM DATE:
—	CHECKED BY: AUM DATE:
—	APPROVED BY: — DATE:

CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22314



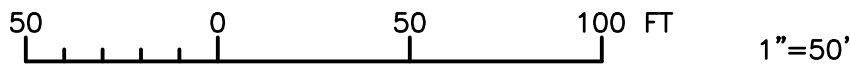
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PLOTED: 7/20/2026 12:10:33 PM BY SAMIM TASAL

MATCHLINE - SEE DWG C-201



MATCHLINE - SEE DWG C-204

SITE PLAN
SCALE: 1"=50'



DEL RAY EAST LATERAL REHABILITATION DESIGN

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DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
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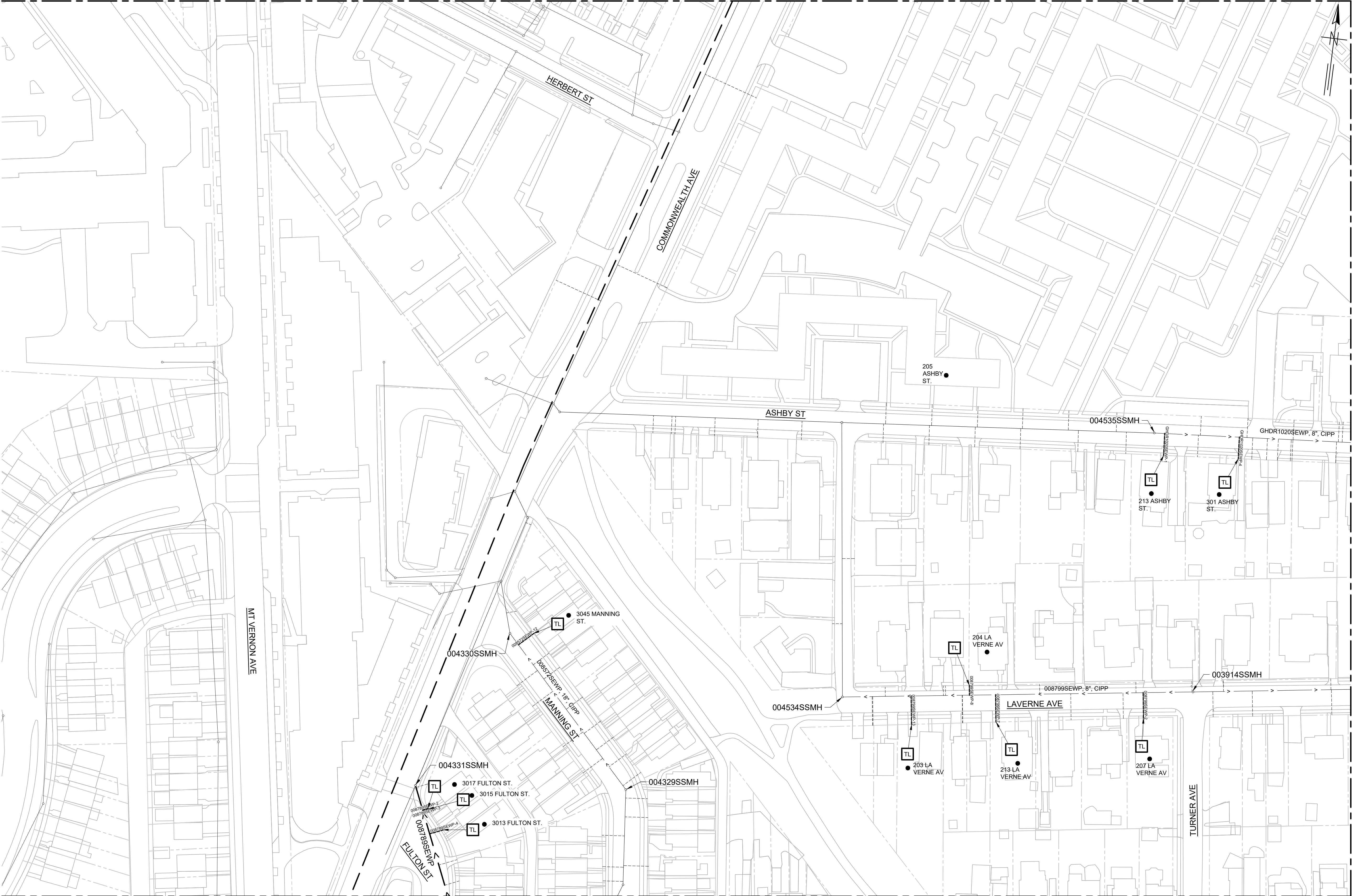
REVISIONS	
DATE	DESCRIPTION

ALEXANDRIA PROJECT NO.:	
DATE OF PLAN ISSUANCE:	
CONSULTANT PROJECT ID.:	
DESIGNED BY: PEE DATE:	
DRAWN BY: TSM DATE:	
CHECKED BY: AJM DATE:	
APPROVED BY: DATE:	



SITE PLAN	
C-202	
SHEET	
5 OF 35	
SCALE	AS SHOWN

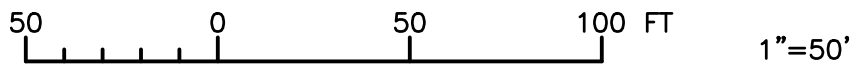
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MATCHLINE - SEE DWG C-201

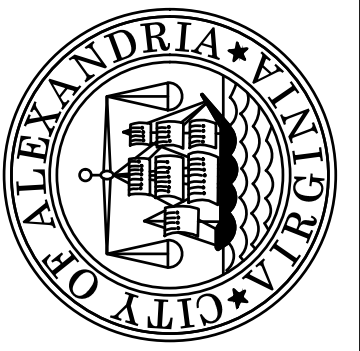
MATCHLINE - SEE DWG C-204

SITE PLAN
SCALE: 1"=50'



DEL RAY EAST LATERAL REHABILITATION DESIGN

100% SUBMITTAL



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DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22314

REVISIONS	DATE	DESCRIPTION

ALEXANDRIA PROJECT NO.:	
DATE OF PLAN ISSUANCE:	
CONSULTANT PROJECT ID.:	
DESIGNED BY:	PEE DATE:
DRAWN BY:	TSM DATE:
CHECKED BY:	AJM DATE:
APPROVED BY:	DATE:



SITE PLAN

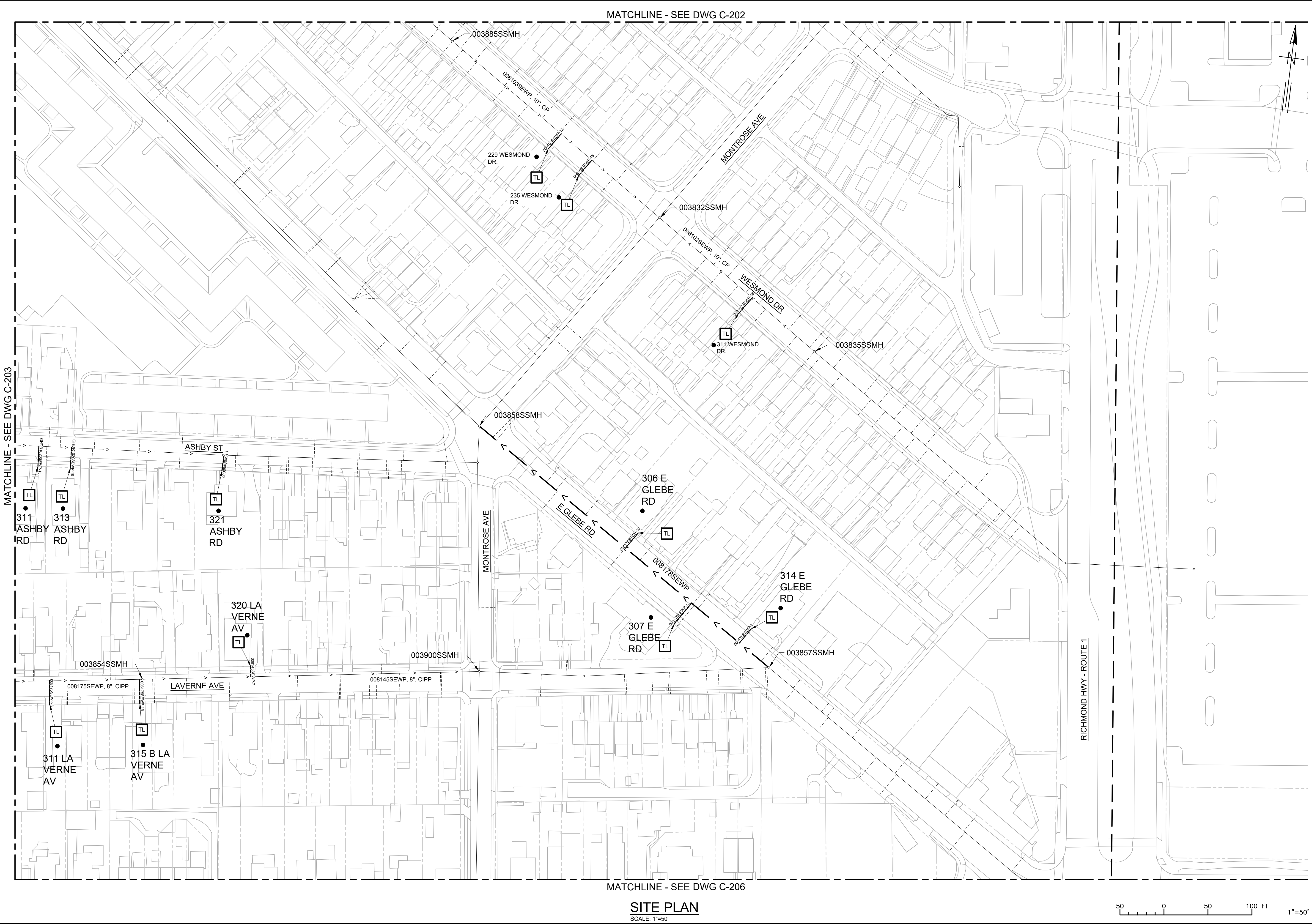
C-203

SHEET

6 OF 35

SCALE AS SHOWN

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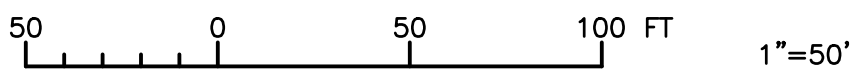


MATCHLINE - SEE DWG C-202

MATCHLINE - SEE DWG C-203

MATCHLINE - SEE DWG C-206

SITE PLAN
SCALE: 1"=50'

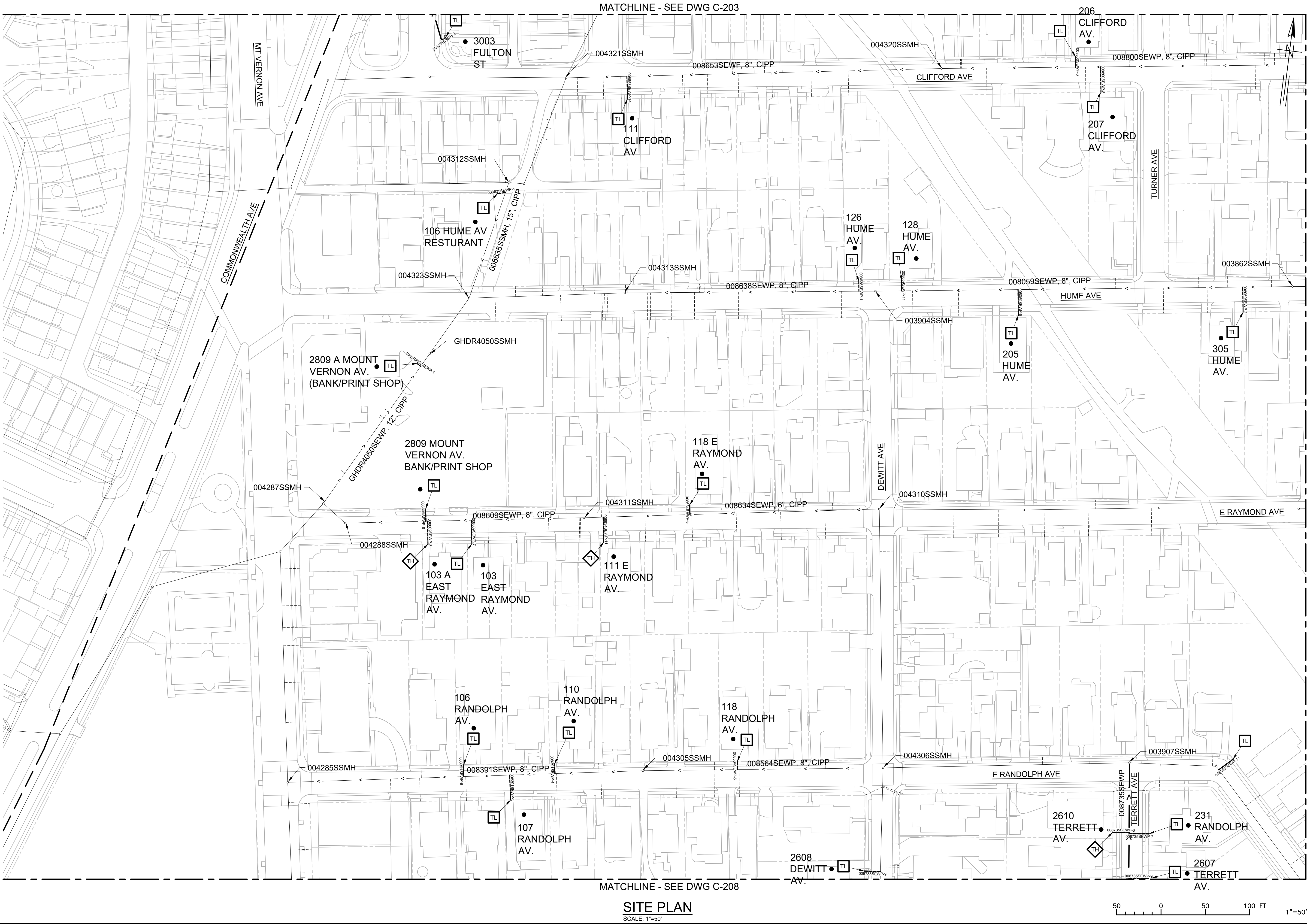


DEL RAY EAST LATERAL REHABILITATION DESIGN

100% SUBMITTAL

C-204	SHEET	7 OF 35	SCALE AS SHOWN	CITY OF ALEXANDRIA, VIRGINIA DEPARTMENT OF PROJECT IMPLEMENTATION 301 KING STREET ALEXANDRIA, VIRGINIA 22314	
SITE PLAN					
REVISIONS				ALEXANDRIA PROJECT NO.: _____	
DATE				DATE OF PLAN ISSUANCE: _____	
BY				CONSULTANT PROJECT ID: _____	
DESCRIPTION				DESIGNED BY: PEE DATE: _____	
				DRAWN BY: TSM DATE: _____	
				CHECKED BY: AJM DATE: _____	
				APPROVED BY: _____ DATE: _____	

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PLOTED: 7/20/2026 12:13:05 PM BY SAMM TASAL



DEL RAY EAST LATERAL REHABILITATION DESIGN

C-205

SHEET
8 OF 35

SCALE AS SHOWN

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CITY OF ALEXANDRIA, VIRGINIA

DEPARTMENT OF PROJECT IMPLEMENTATION

301 KING STREET

ALEXANDRIA, VIRGINIA 22314

REVISIONS

DATE	DESCRIPTION

ALEXANDRIA PROJECT NO.:

DATE OF PLAN ISSUANCE:

CONSULTANT PROJECT ID.:

DESIGNED BY: PEE DATE:

DRAWN BY: TSM DATE:

CHECKED BY: AJM DATE:

APPROVED BY: DATE:

PROFESSIONAL ENGINEER

BAHRAM ARMAKAN

Lic. No. 067101

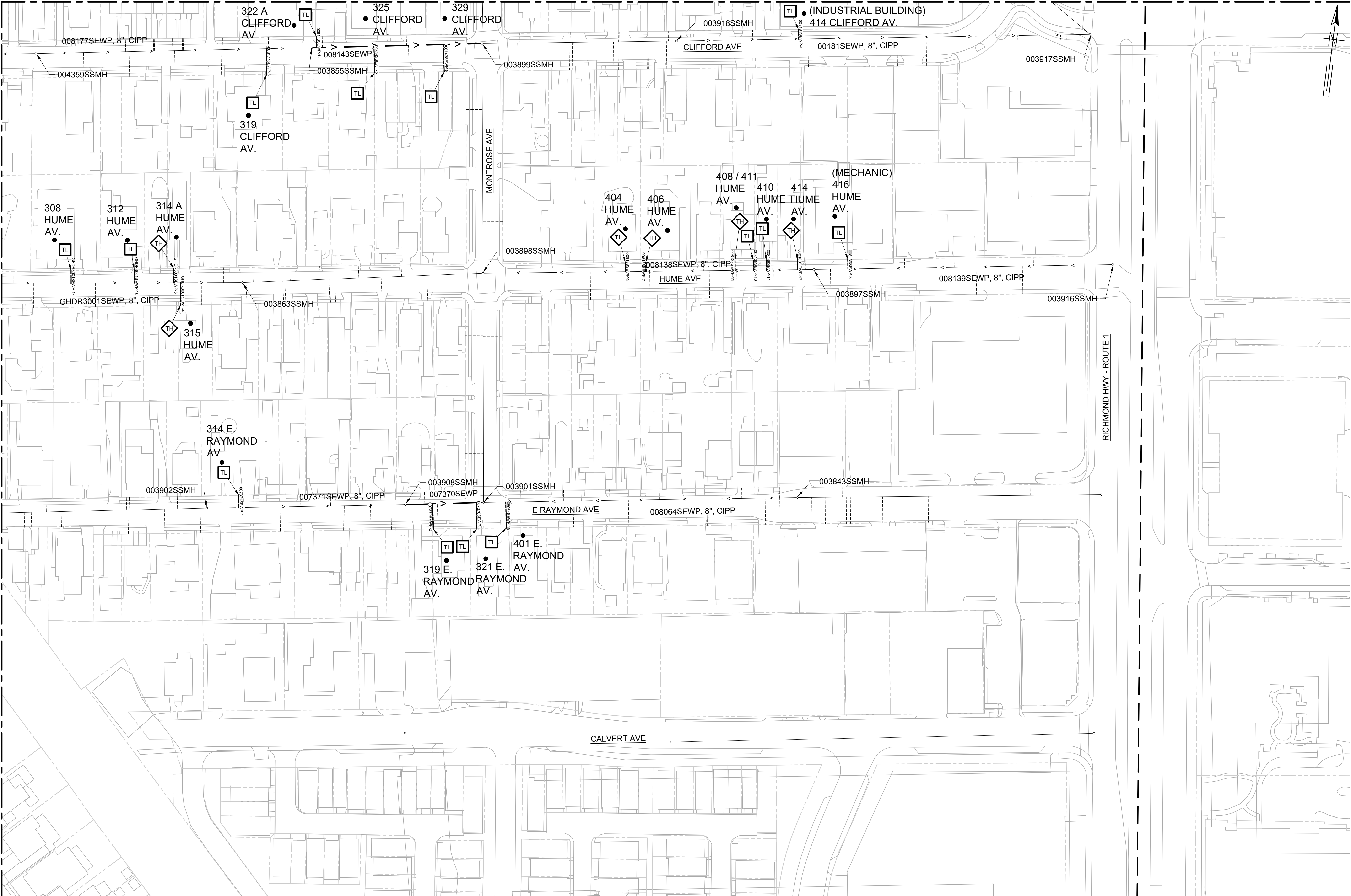
August 24, 2026

SITE PLAN

1"=50'

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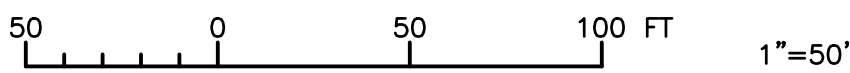
MATCHLINE - SEE DWG C-205



MATCHLINE - SEE DWG C-204

MATCHLINE - SEE DWG C-209

SITE PLAN
SCALE: 1"=50'



DEL RAY EAST LATERAL REHABILITATION DESIGN

100% SUBMITTAL

SITE PLAN

C-206

SHEET
9 OF 35

SCALE AS SHOWN

ALEXANDRIA PROJECT NO.:
DATE OF PLAN ISSUANCE:
CONSULTANT PROJECT ID.:
DESIGNED BY: PEE DATE:
DRAWN BY: TSM DATE:
CHECKED BY: AJM DATE:
APPROVED BY: DATE:



CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22314

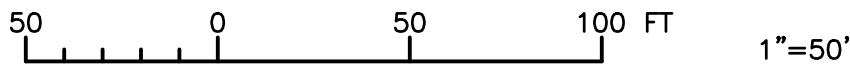


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PLOTTED: 7/20/2026 12:14:46 PM BY SAMM TASAL



MATCHLINE - SEE DWG C-210

SITE PLAN
SCALE: 1"=50'



MATCHLINE - SEE DWG C-208

DEL RAY EAST LATERAL REHABILITATION DESIGN

100% SUBMITTAL

SITE PLAN

C-207
SHEET
10 OF 35

SCALE AS SHOWN



ALEXANDRIA PROJECT NO.:	—
DATE OF PLAN ISSUANCE:	—
CONSULTANT PROJECT ID.:	—
DESIGNED BY:	PEE DATE: —
DRAWN BY:	TSM DATE: —
CHECKED BY:	AM DATE: —
APPROVED BY:	— DATE: —

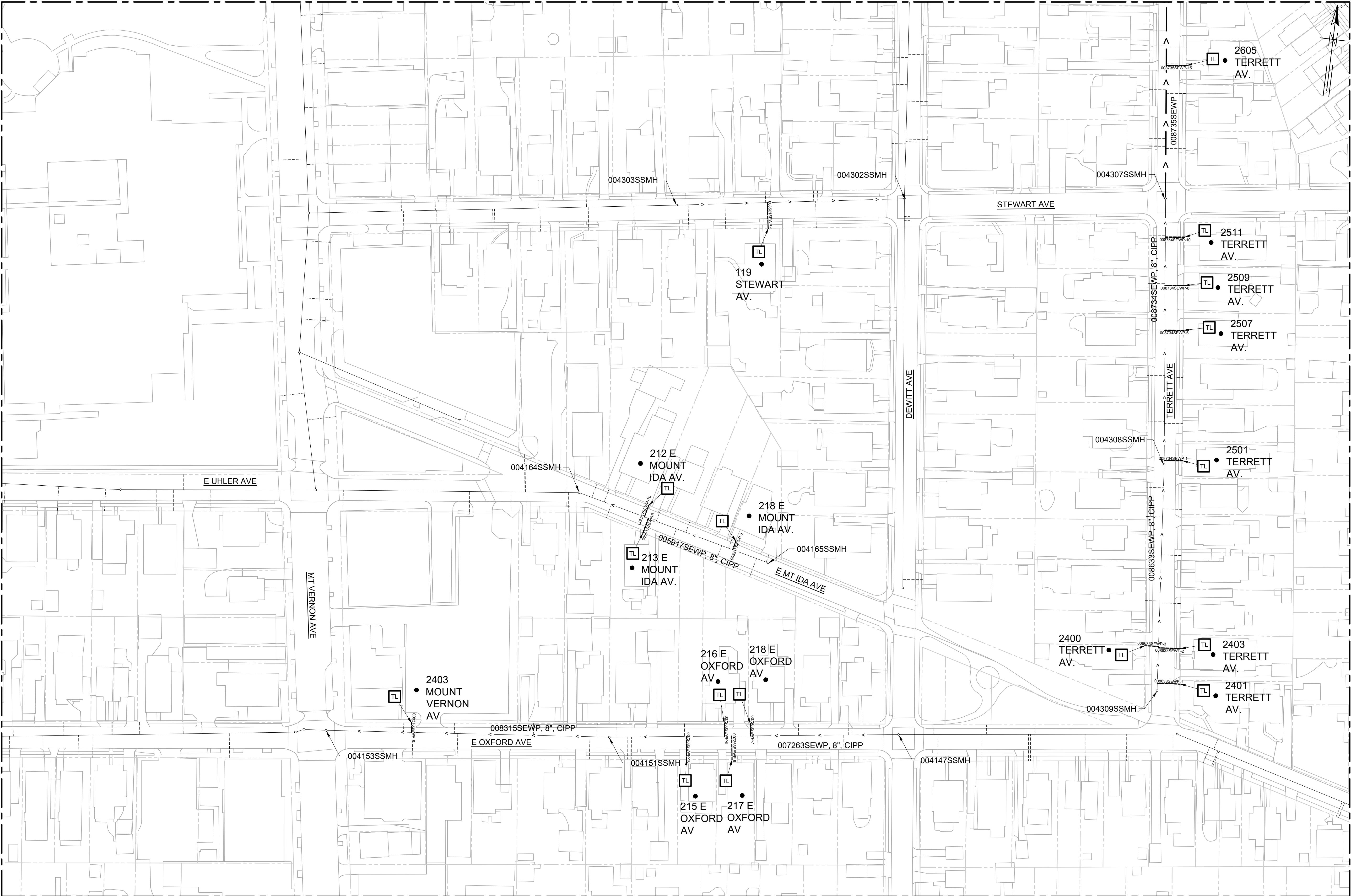
REVISIONS	DATE	DESCRIPTION

CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22314



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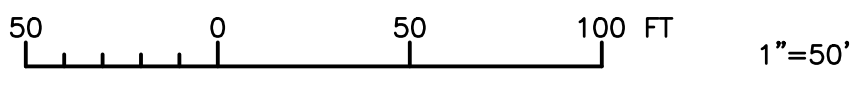
MATCHLINE - SEE DWG C-207



MATCHLINE - SEE DWG C-205

MATCHLINE - SEE DWG C-211

SITE PLAN
SCALE: 1"=50'



DEL RAY EAST LATERAL REHABILITATION DESIGN

100% SUBMITTAL

SCALE AS SHOWN

C-208

SHEET
11 OF 35

SITE PLAN



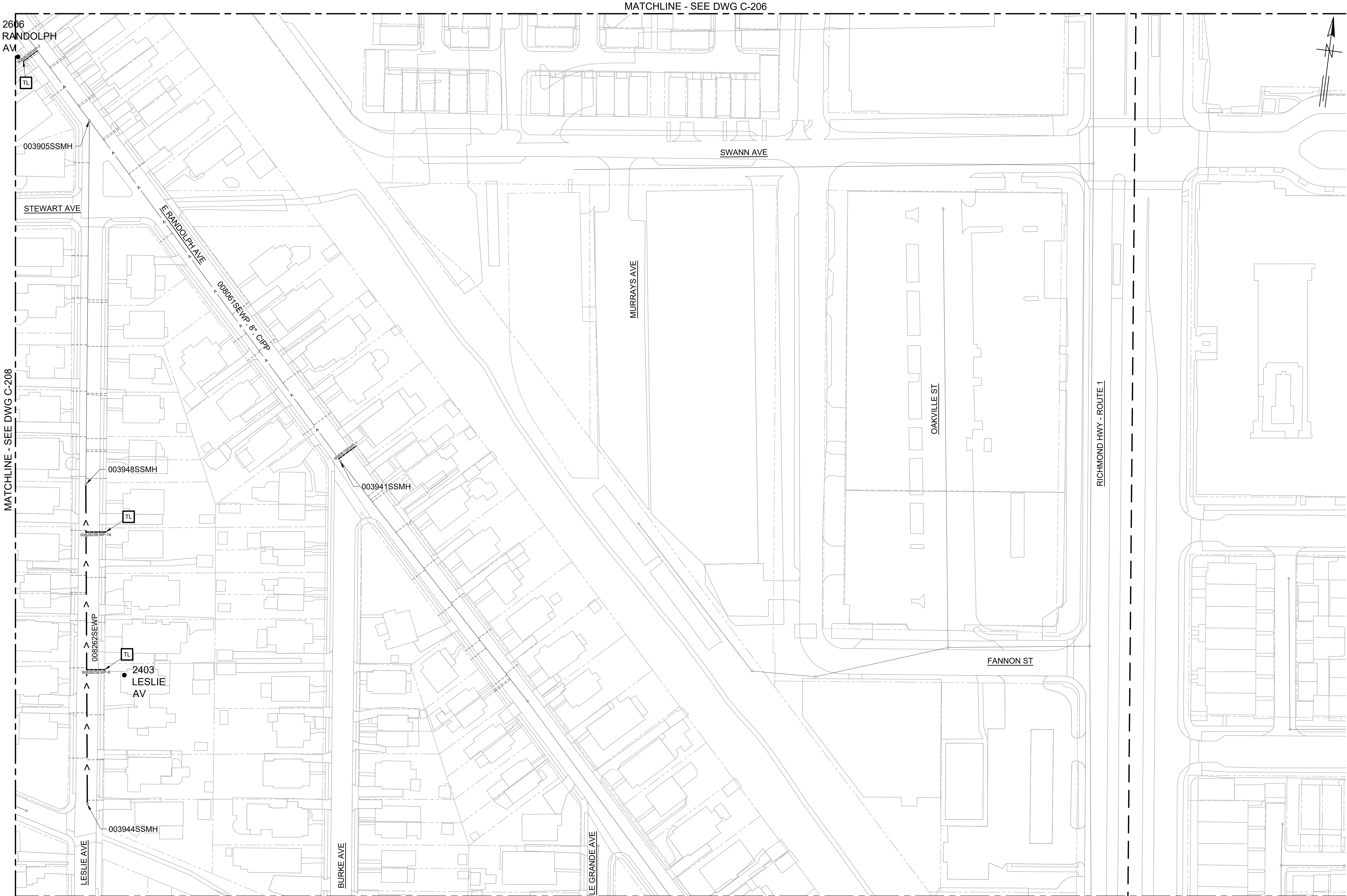
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APPROVED BY: --- DATE:	---
REVISIONS	DESCRIPTION
BY	DATE

CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22314



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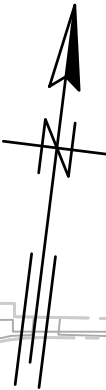
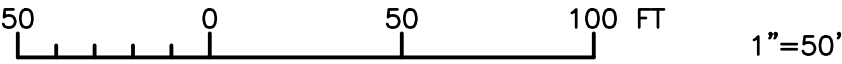
MATCHLINE - SEE DWG C-208



MATCHLINE - SEE DWG C-206

MATCHLINE - SEE DWG C-212

SITE PLAN
SCALE: 1"=50'



DEL RAY EAST LATERAL REHABILITATION DESIGN

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CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22314



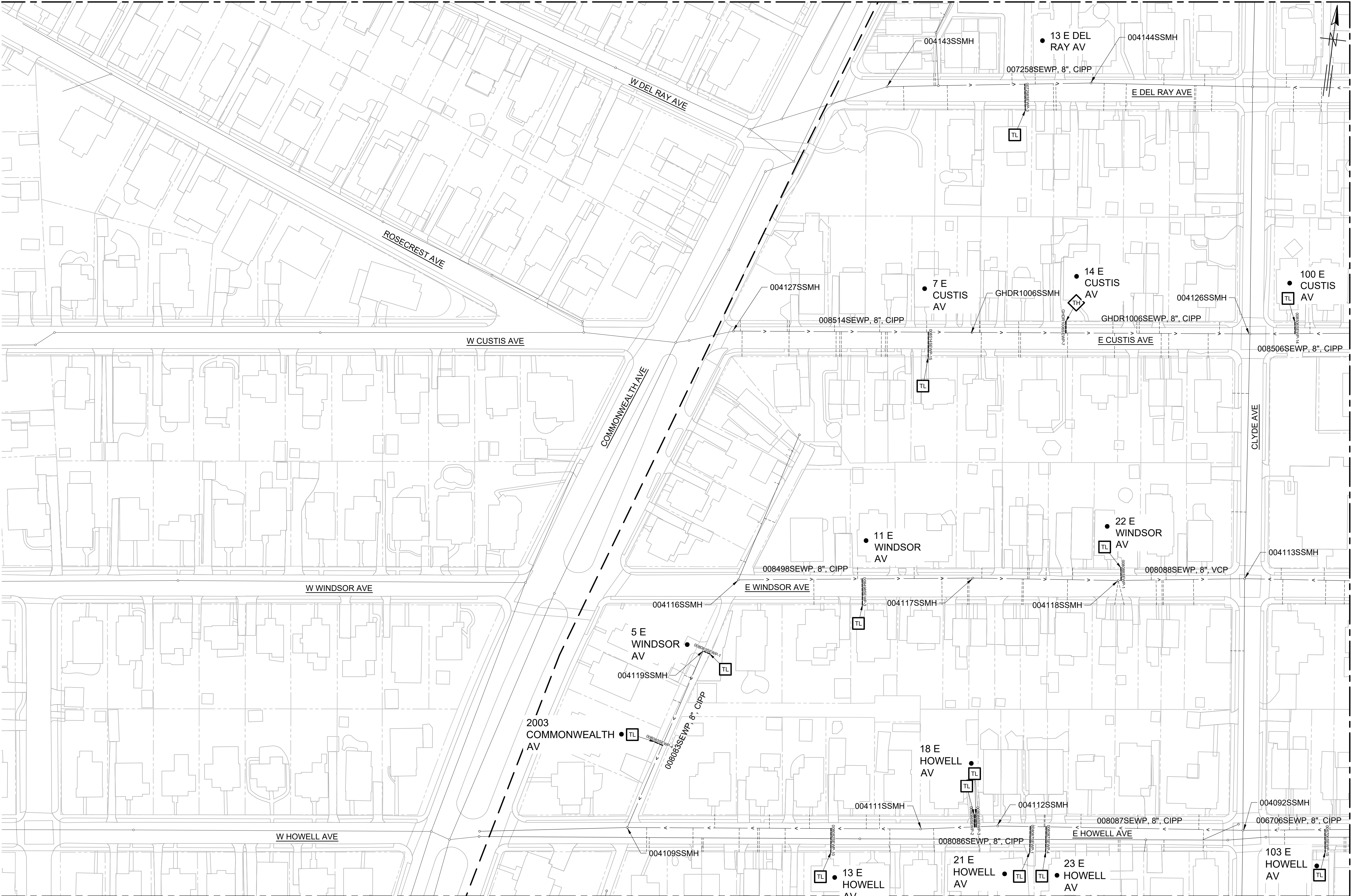
SITE PLAN

C-209

SHEET
12 OF 35

SCALE AS SHOWN

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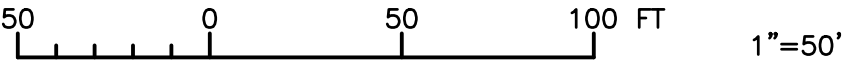


MATCHLINE - SEE DWG C-207

MATCHLINE - SEE DWG C-213

MATCHLINE - SEE DWG C-211

SITE PLAN
SCALE: 1"=50'



DEL RAY EAST LATERAL REHABILITATION DESIGN

100% SUBMITTAL

SCALE AS SHOWN

SHEET
13 OF 35

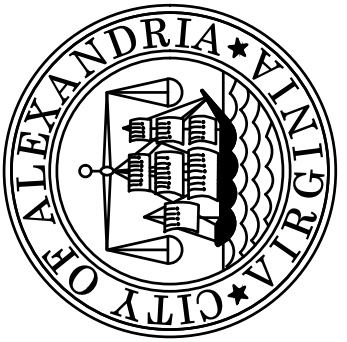
SITE PLAN



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CONSULTANT PROJECT ID.:	---
DESIGNED BY:	PEE DATE: ---
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APPROVED BY:	--- DATE: ---

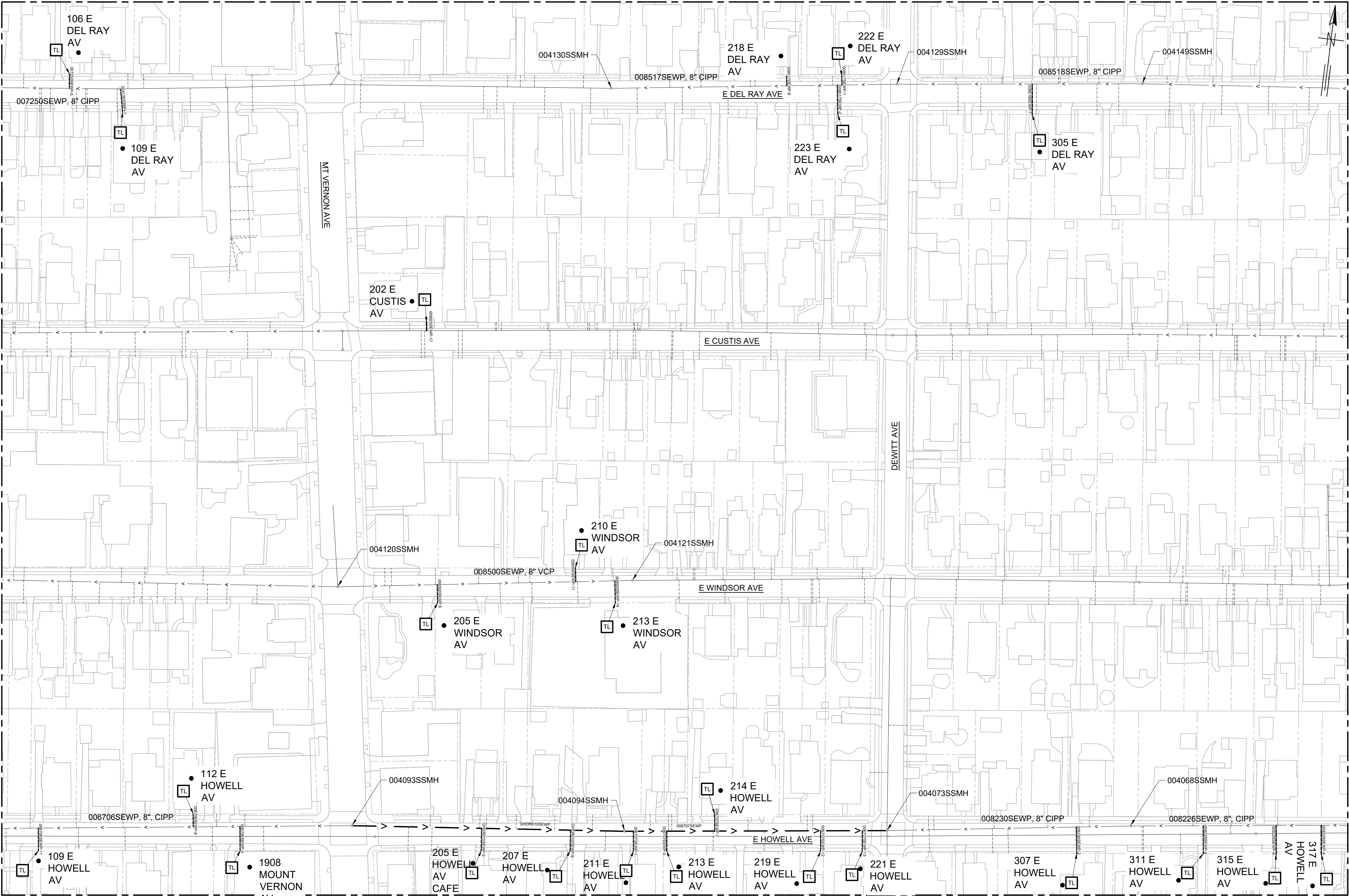
REVISIONS	DATE	DESCRIPTION

CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22314



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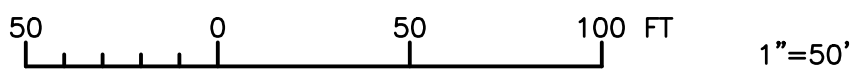
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MATCHLINE - SEE DWG C-208

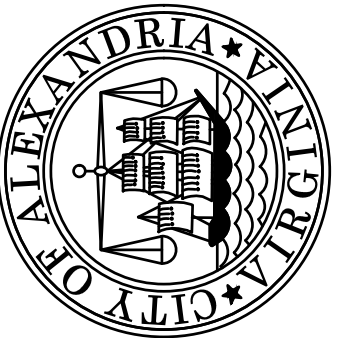
MATCHLINE - SEE DWG C-214

SITE PLAN
SCALE: 1"=50'



DEL RAY EAST LATERAL REHABILITATION DESIGN

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CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22314

SITE PLAN

C-211

SHEET

14 OF 35

SCALE AS SHOWN



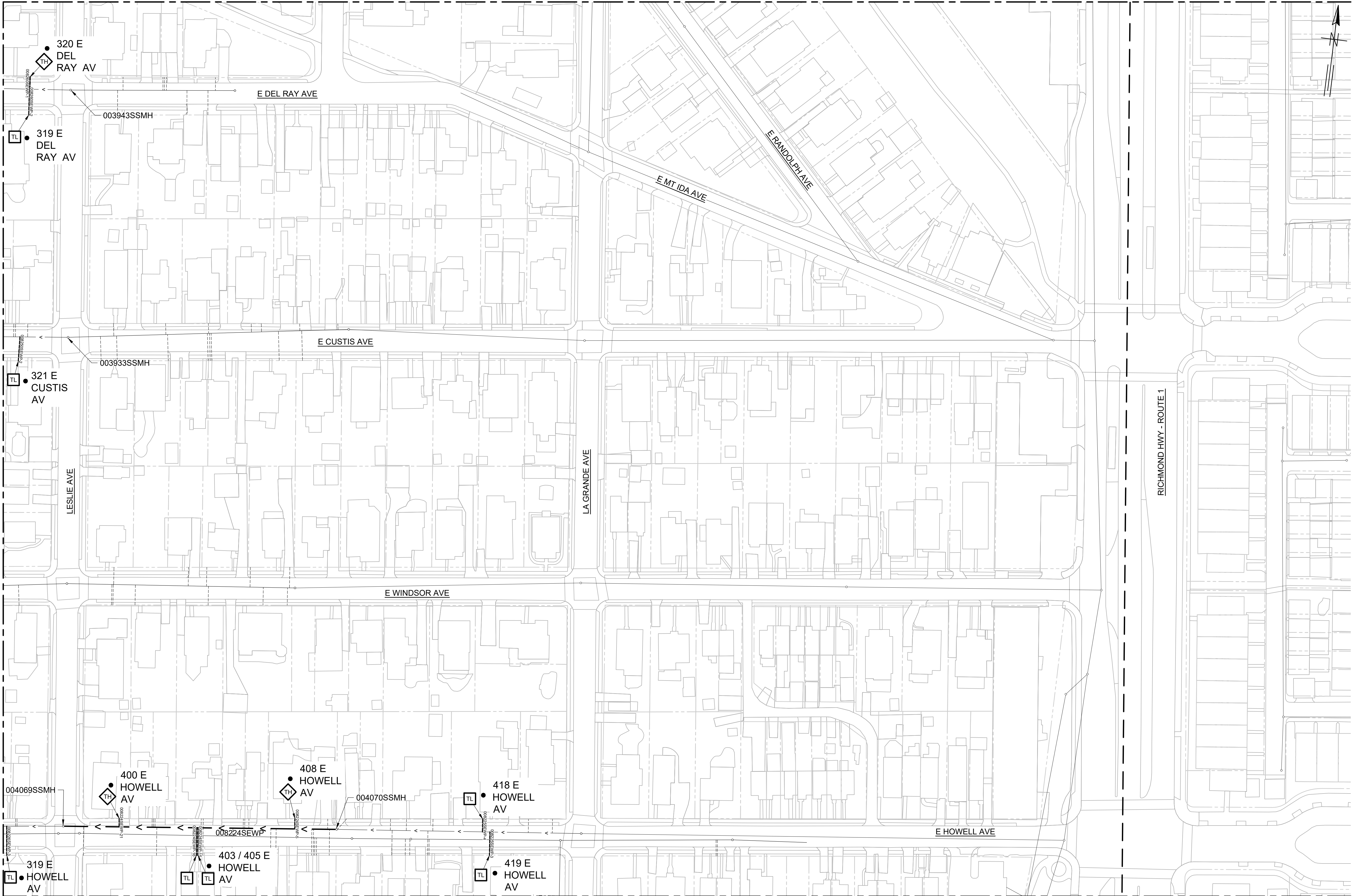
BAHRAM ARMANIAN
Lic. No. 067101
August 24, 2026
PROFESSIONAL ENGINEER

REVISIONS	
DATE	DESCRIPTION

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DESIGNED BY:	PEE DATE:
DRAWN BY:	TSM DATE:
CHECKED BY:	AJM DATE:
APPROVED BY:	DATE:

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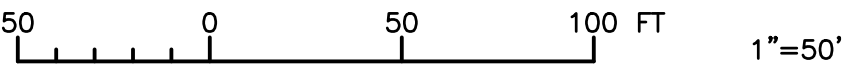
MATCHLINE - SEE DWG C-211



MATCHLINE - SEE DWG C-209

MATCHLINE - SEE DWG C-215

SITE PLAN
SCALE: 1"=50'



DEL RAY EAST LATERAL REHABILITATION DESIGN

100% SUBMITTAL



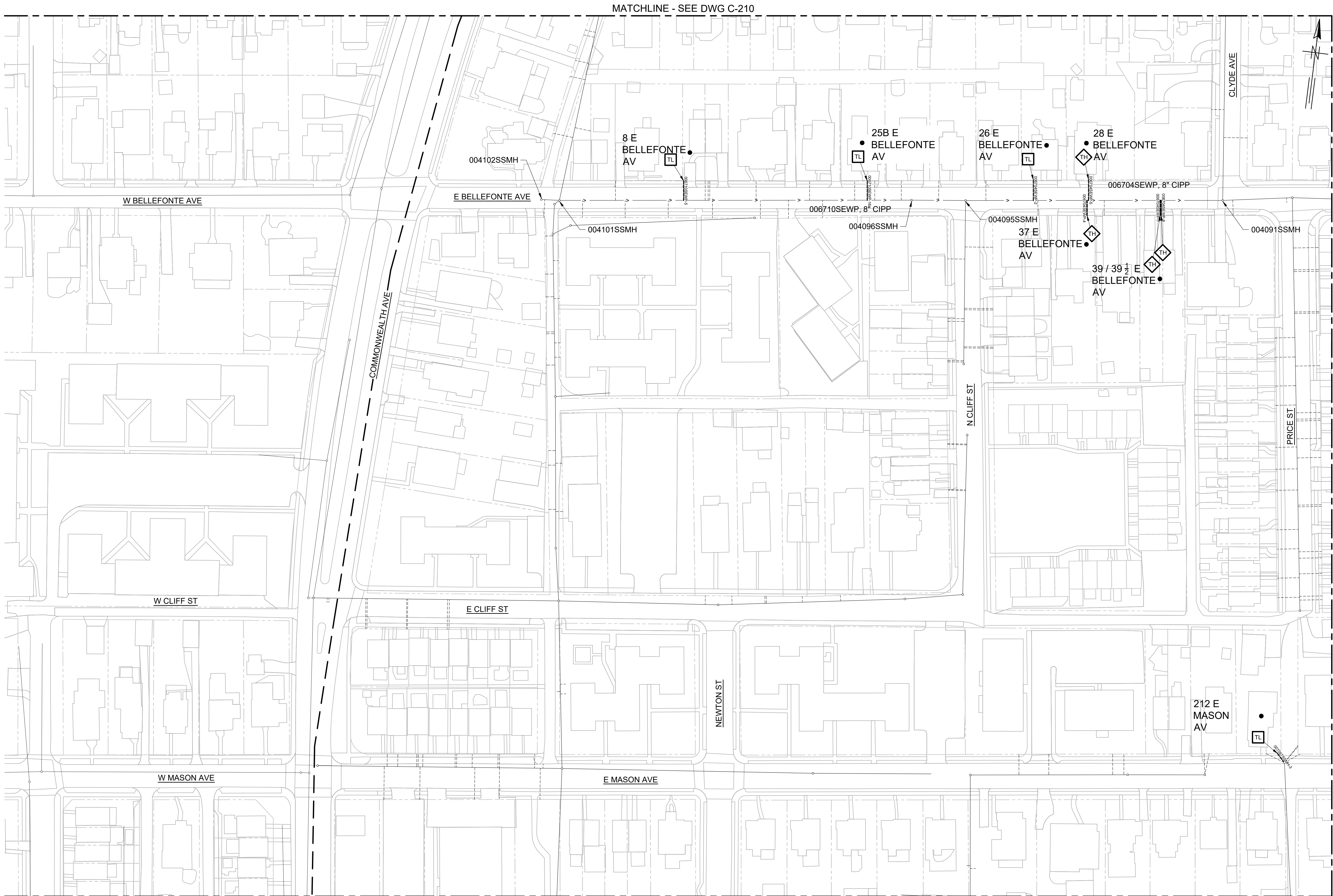
SITE PLAN

CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22314

REVISIONS	
DATE	DESCRIPTION

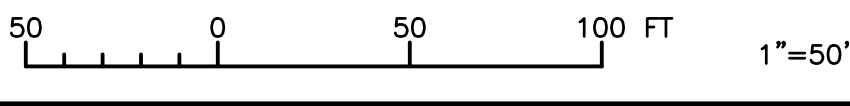
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DRAWN BY: TSM DATE:	
CHECKED BY: AJM DATE:	
APPROVED BY: DATE:	

C-212
SHEET
15 OF 35
SCALE AS SHOWN



SITE PLAN

SCALE: 1"=50'



DEL RAY EAST LATERAL REHABILITATION DESIGN

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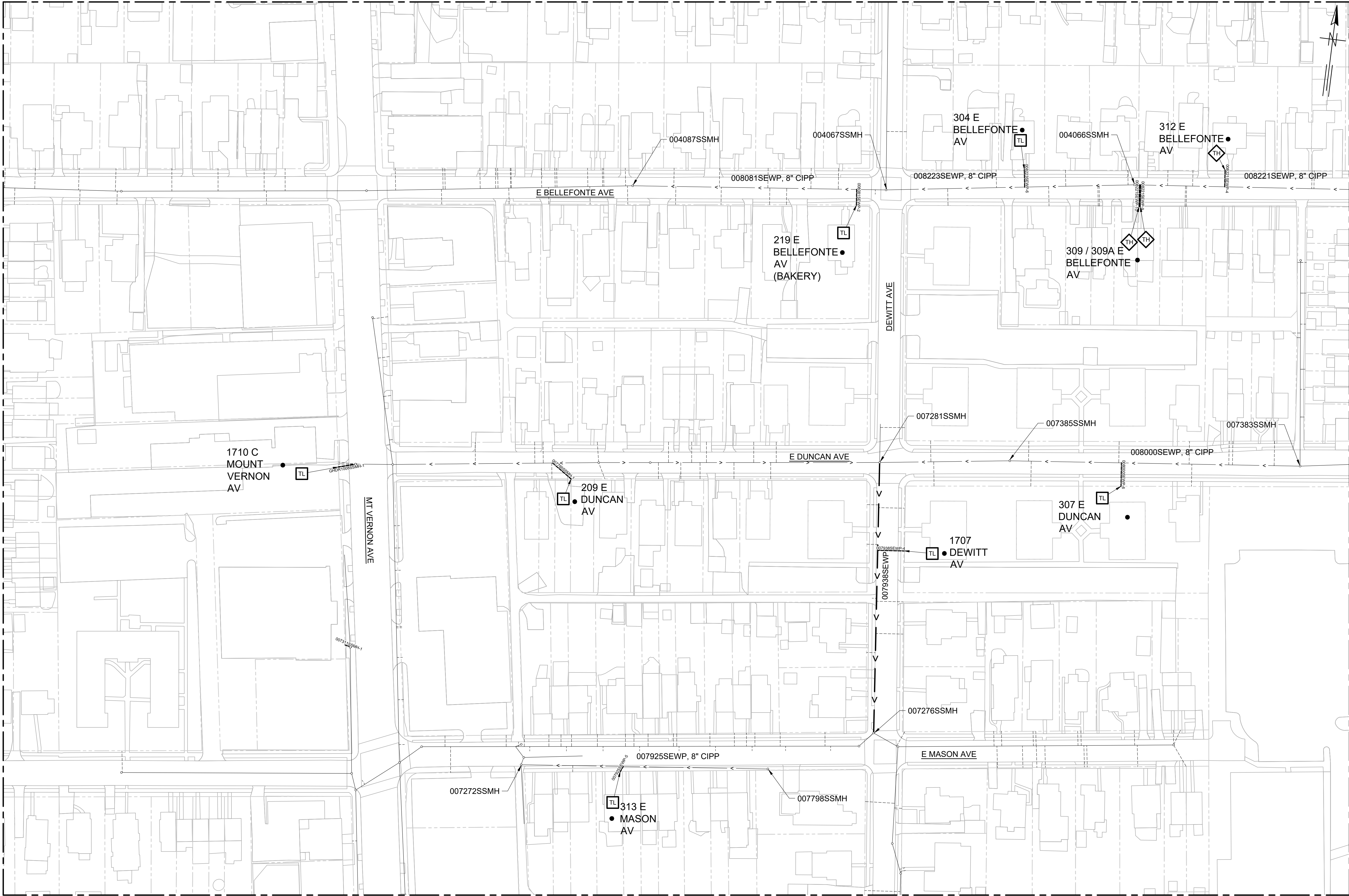
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22314



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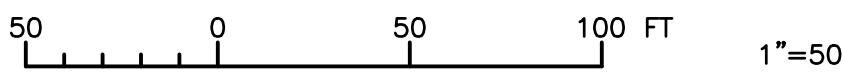
MATCHLINE - SEE DWG C-213



MATCHLINE - SEE DWG C-211

MATCHLINE - SEE DWG C-217

SITE PLAN
SCALE: 1"=50'



MATCHLINE - SEE DWG C-215

DEL RAY EAST LATERAL REHABILITATION DESIGN

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CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22314

REVISIONS	DESCRIPTION
DATE	BY

ALEXANDRIA PROJECT NO.:	
DATE OF PLAN ISSUANCE:	
CONSULTANT PROJECT ID.:	
DESIGNED BY:	PEE DATE:
DRAWN BY:	TSM DATE:
CHECKED BY:	AJM DATE:
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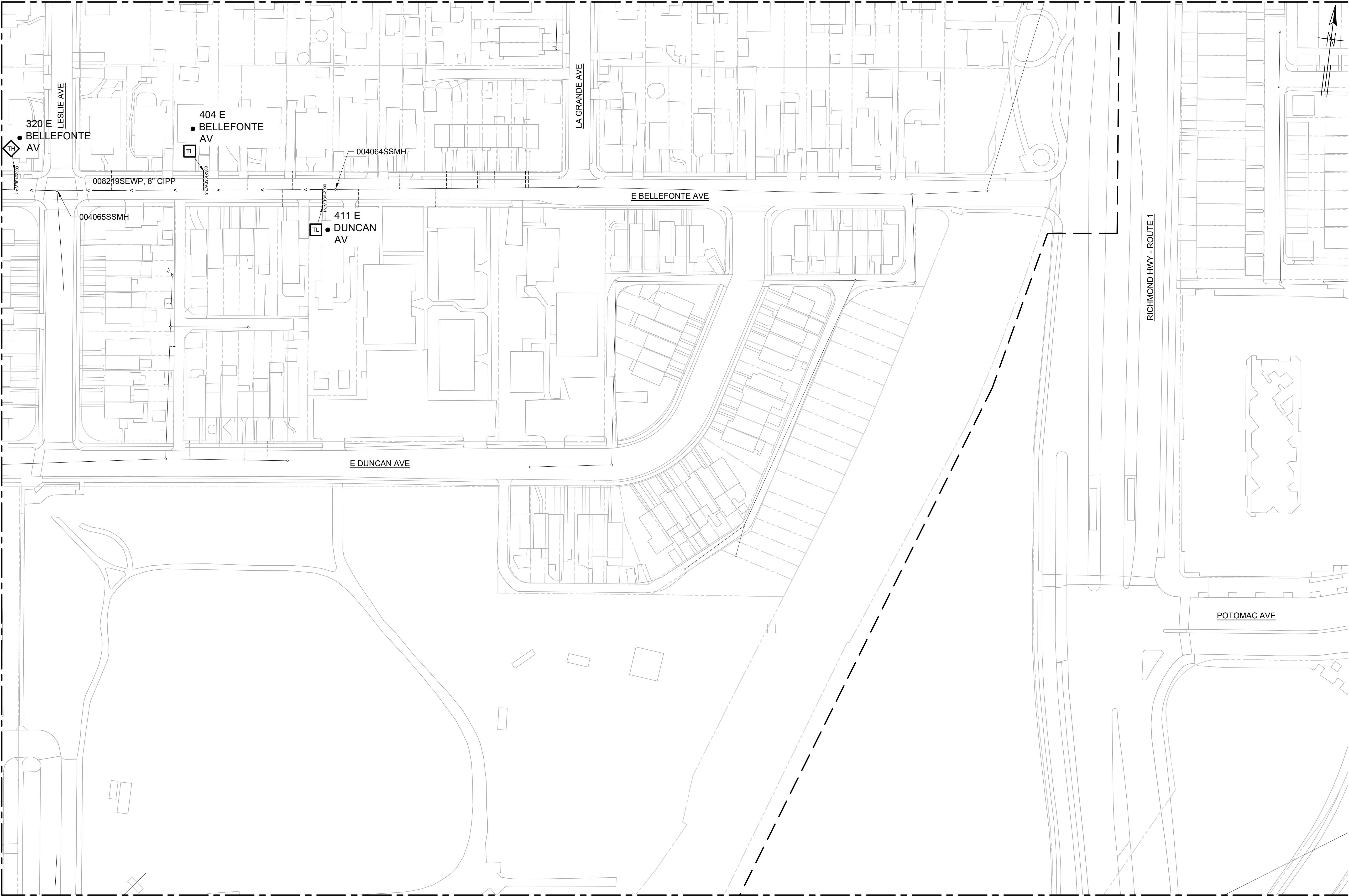


SITE PLAN

C-214
SHEET
17 OF 35
SCALE AS SHOWN

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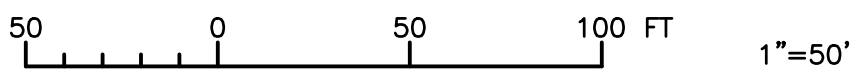
MATCHLINE - SEE DWG C-214



MATCHLINE - SEE DWG C-212

MATCHLINE - SEE DWG C-218

SITE PLAN
SCALE: 1"=50'

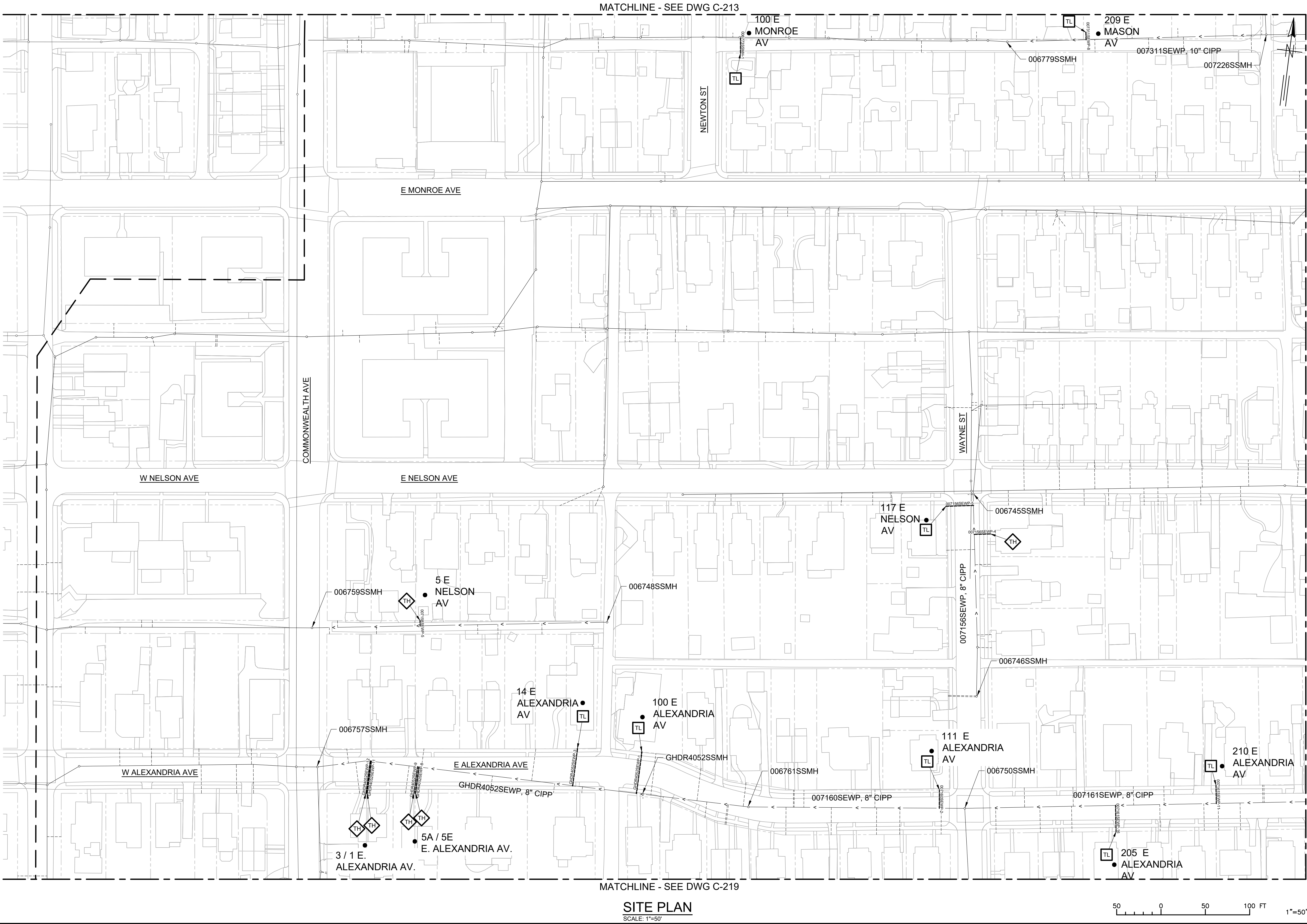


DEL RAY EAST LATERAL REHABILITATION DESIGN

100% SUBMITTAL

C-215 SHEET 18 OF 35 SCALE AS SHOWN	SITE PLAN		CITY OF ALEXANDRIA, VIRGINIA DEPARTMENT OF PROJECT IMPLEMENTATION 301 KING STREET ALEXANDRIA, VIRGINIA 22314																						
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		DATE	BY	DESCRIPTION																					
ALEXANDRIA PROJECT NO.: DATE OF PLAN ISSUANCE: CONSULTANT PROJECT ID.: DESIGNED BY: DRAWN BY: CHECKED BY: APPROVED BY:																									

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MATCHLINE - SEE DWG C-213

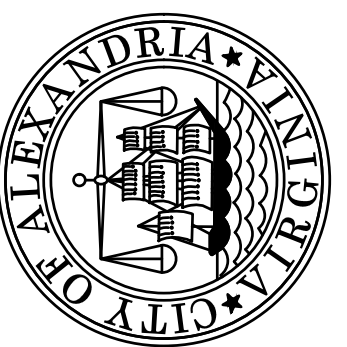
MATCHLINE - SEE DWG C-217

MATCHLINE - SEE DWG C-219

SITE PLAN
SCALE: 1"=50'

DEL RAY EAST LATERAL REHABILITATION DESIGN

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 CITY OF ALEXANDRIA, VIRGINIA DEPARTMENT OF PROJECT IMPLEMENTATION 301 KING STREET ALEXANDRIA, VIRGINIA 22314	REVISIONS	PROJECT NO.:	—
	DATE	DATE OF PLAN ISSUANCE:	—
	DESCRIPTION	CONSULTANT PROJECT ID.:	—
	DESIGNED BY:	PEE DATE:	—
	DRAWN BY:	TSM DATE:	—
	CHECKED BY:	AJM DATE:	—
	APPROVED BY:	—	DATE:
SITE PLAN			
C-216			
SHEET			
19 OF 35			
SCALE AS SHOWN			

MATCHLINE - SEE DWG C-220

SCALE: 1"=50'



--- MATCHLINE - SEE DWG C-218 ---

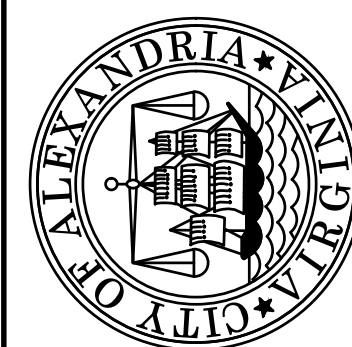
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SCALE AS SHOWN

ALEXANDRIA PROJECT NO.: _____
DATE OF PLAN ISSUANCE: _____
CONSULTANT PROJECT ID: _____
DESIGNED BY: PEE DATE: _____
DRAWN BY: TSM DATE: _____
CHECKED BY: AJM DATE: _____
APPROVED BY: _____ DATE: _____

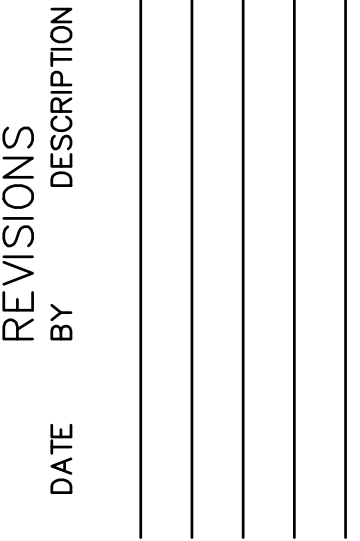
DATE	BY	REVISIONS	DESCRIPTION

CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22314





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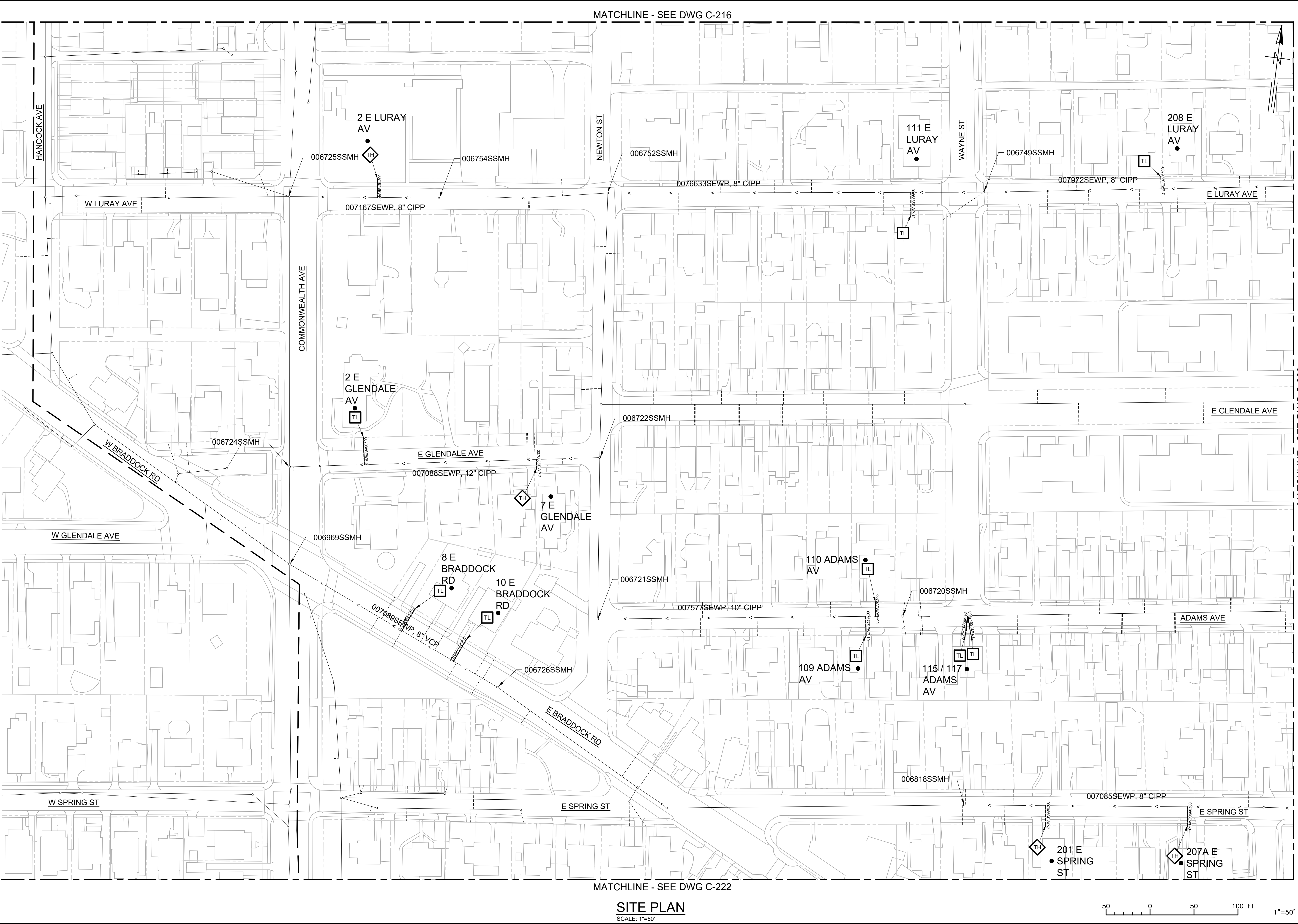
CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22314

SHEET

21 OF 35

SCALE AS SHOWN

T:\X\GH-ALX\Projects\0057_City of Alexandria\0057L_Asset Renewal\123-04 Del Ray East Lateral Design\04-Design\Civil3D\CD\00571.23-04-C201_C226.dwg
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MATCHLINE - SEE DWG C-216

MATCHLINE - SEE DWG C-222

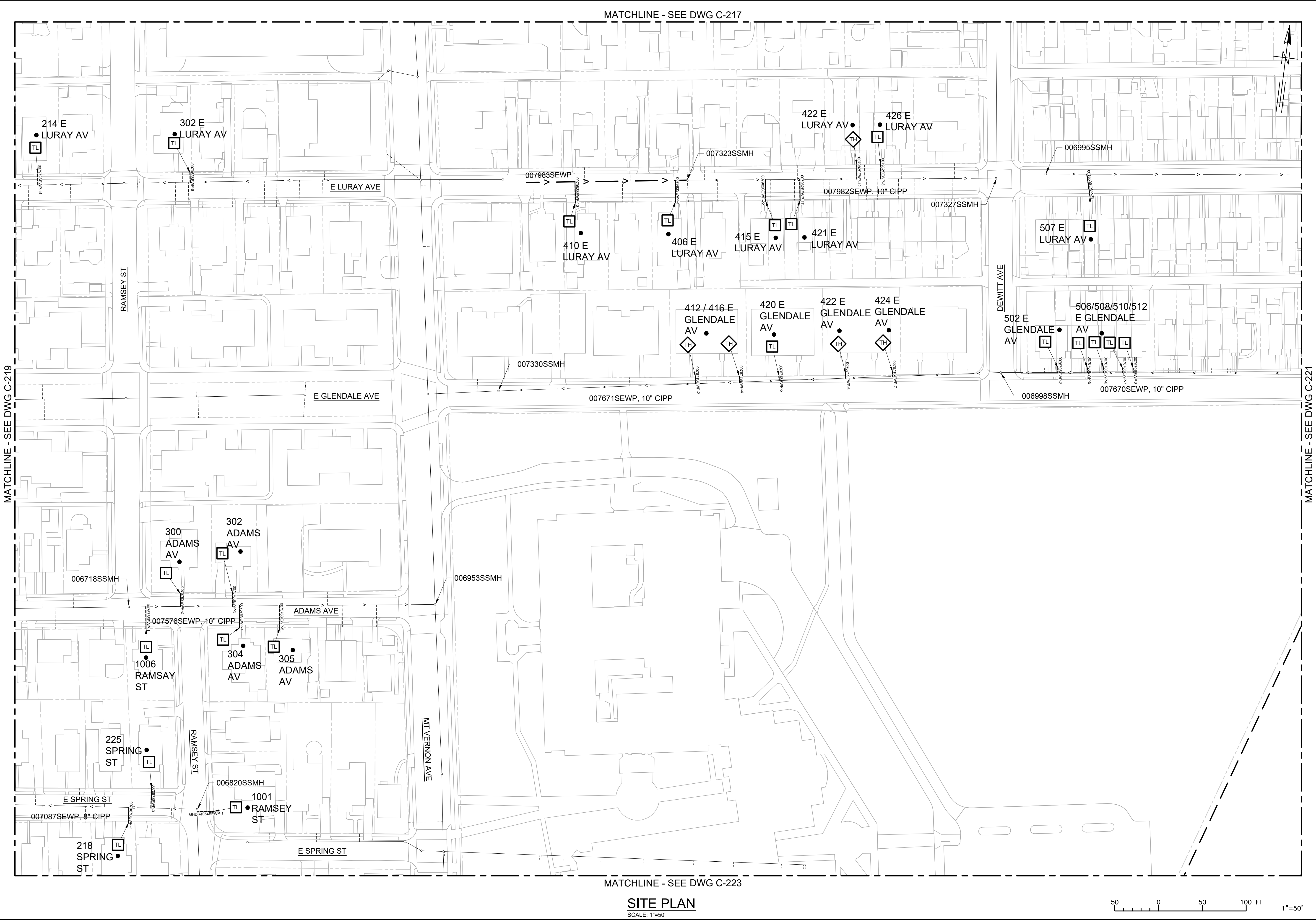
SITE PLAN
SCALE: 1"=50'

DEL RAY EAST LATERAL REHABILITATION DESIGN

100% SUBMITTAL

C-219 SHEET 22 OF 35 SCALE AS SHOWN	SITE PLAN	 ALEXANDRIA PROJECT NO.: _____ DATE OF PLAN ISSUANCE: _____ CONSULTANT PROJECT ID: _____ DESIGNED BY: PEE DATE: _____ DRAWN BY: TSM DATE: _____ CHECKED BY: AJM DATE: _____ APPROVED BY: _____ DATE: _____	REVISIONS <table><thead><tr><th>DATE</th><th>DESCRIPTION</th></tr></thead><tbody><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr></tbody></table>	DATE	DESCRIPTION								
		DATE	DESCRIPTION										
 CITY OF ALEXANDRIA, VIRGINIA DEPARTMENT OF PROJECT IMPLEMENTATION 301 KING STREET ALEXANDRIA, VIRGINIA 22314													

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DEL RAY EAST LATERAL REHABILITATION DESIGN

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DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22314

REVISIONS

DATE	DESCRIPTION

ALEXANDRIA PROJECT NO.:
DATE OF PLAN ISSUANCE:
CONSULTANT PROJECT ID:
DESIGNED BY: PEE DATE:
DRAWN BY: TSM DATE:
CHECKED BY: AJM DATE:
APPROVED BY: DATE:

PROFESSIONAL ENGINEER
BAHRAM ARMAKAN
Lic. No. 067101
August 24, 2026

STATE OF VIRGINIA
DEPARTMENT OF TRANSPORTATION

SITE PLAN

C-220

SHEET
23 OF 35

SCALE AS SHOWN

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MATCHLINE - SEE DWG C-220



SITE PLAN
SCALE: 1"=50'

DEL RAY EAST LATERAL REHABILITATION DESIGN

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C-221
SHEET
24 OF 35
SCALE AS SHOWN

SITE PLAN

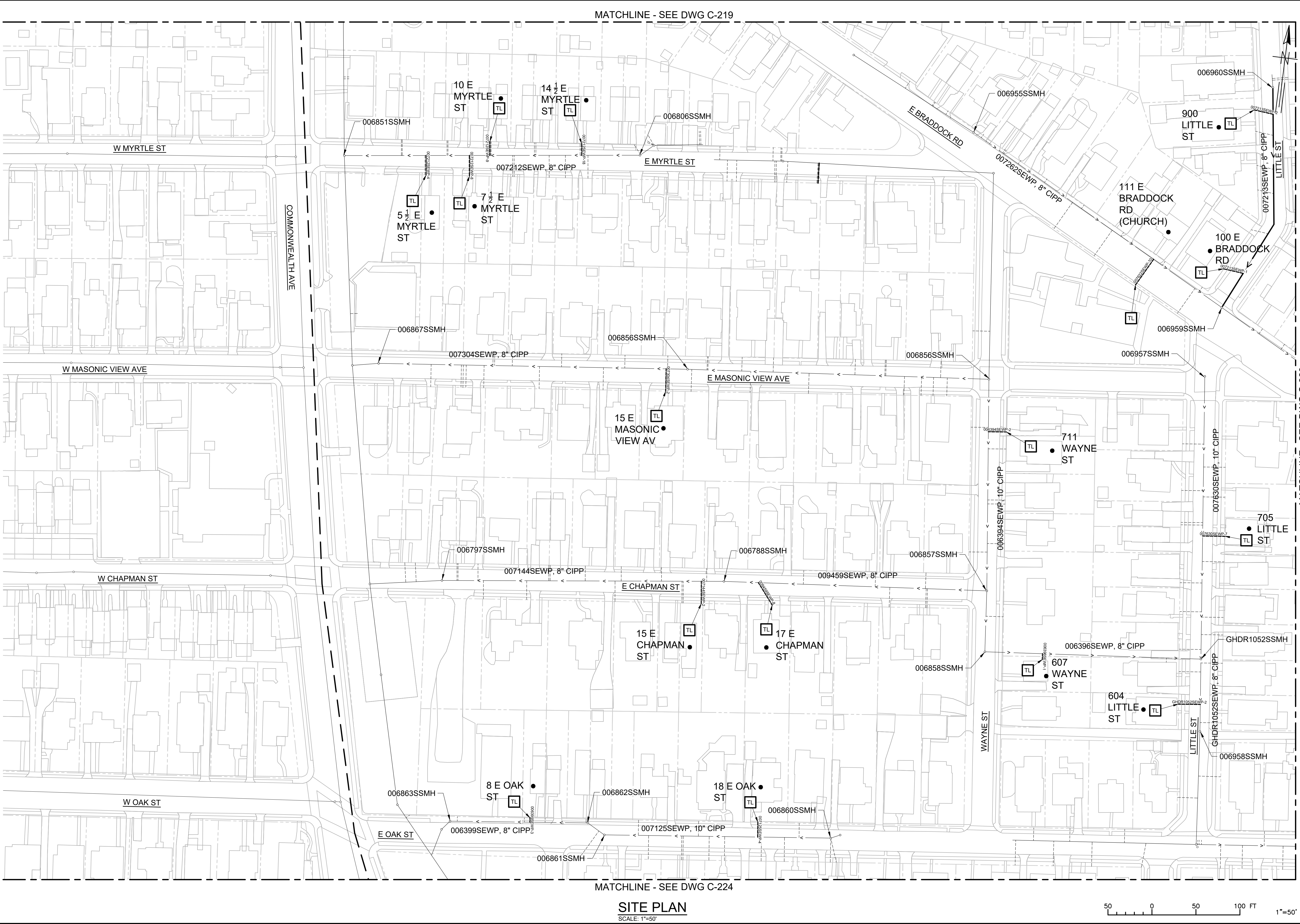


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DATE OF PLAN ISSUANCE:	—	—	—
CONSULTANT PROJECT ID.:	—	—	—
DESIGNED BY:	—	—	—
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CHECKED BY:	—	—	—
APPROVED BY:	—	—	—

CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22314



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DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22314

REVISIONS

DATE	DESCRIPTION

ALEXANDRIA PROJECT NO.:
DATE OF PLAN ISSUANCE:
CONSULTANT PROJECT ID:
DESIGNED BY: PEE DATE:
DRAWN BY: TSM DATE:
CHECKED BY: AJM DATE:
APPROVED BY: DATE:

SITE PLAN

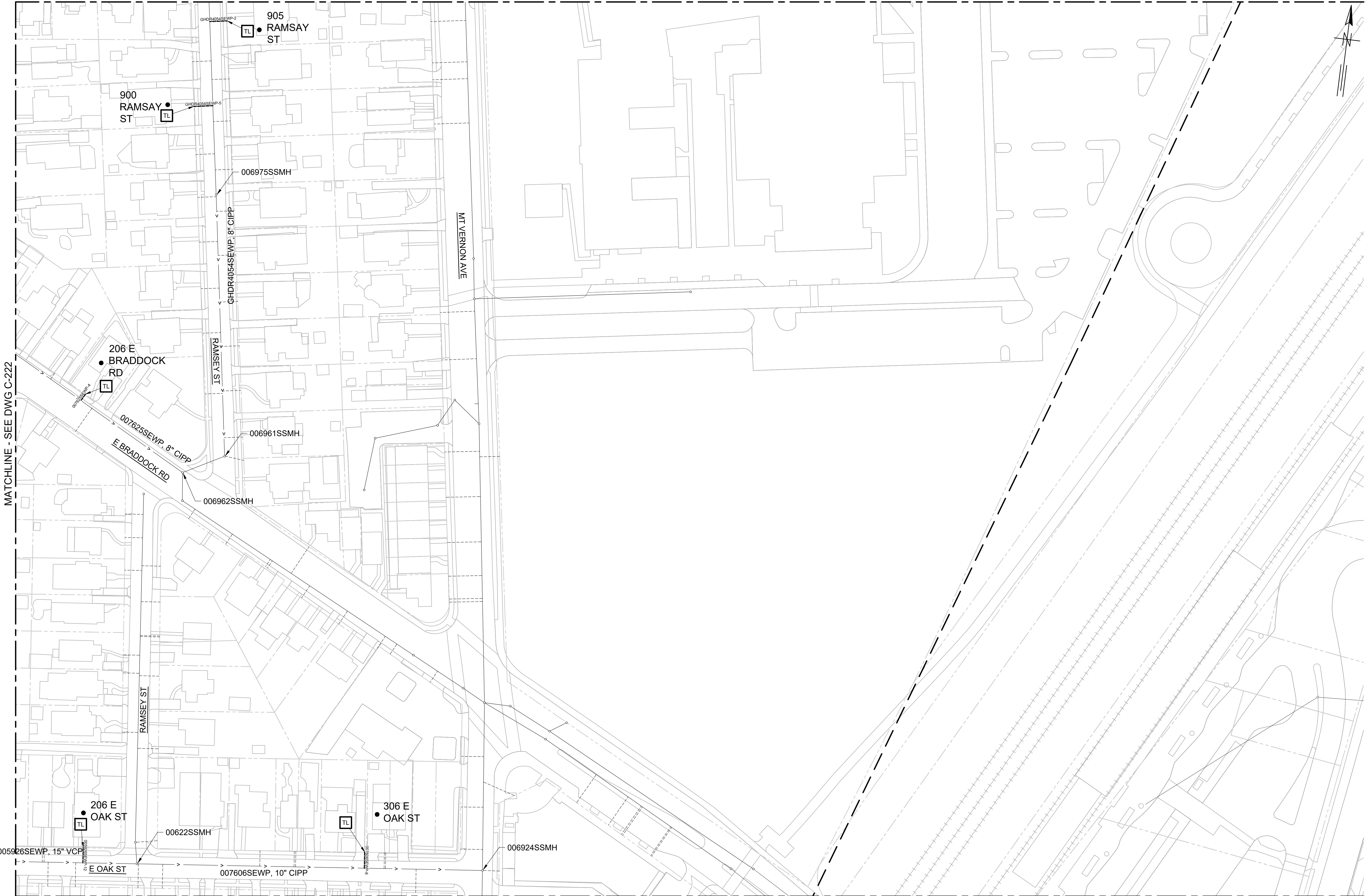
C-222

SHEET
25 OF 35

SCALE AS SHOWN

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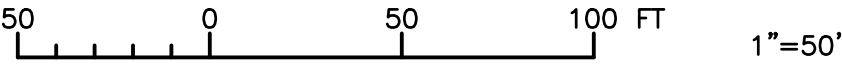
MATCHLINE - SEE DWG C-222



MATCHLINE - SEE DWG C-220

MATCHLINE - SEE DWG C-225

SITE PLAN
SCALE: 1"=50'



DEL RAY EAST LATERAL REHABILITATION DESIGN

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CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22314

REVISIONS	
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—	ALEXANDRIA PROJECT NO.:
—	DATE OF PLAN ISSUANCE:
—	CONSULTANT PROJECT ID.:
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SITE PLAN

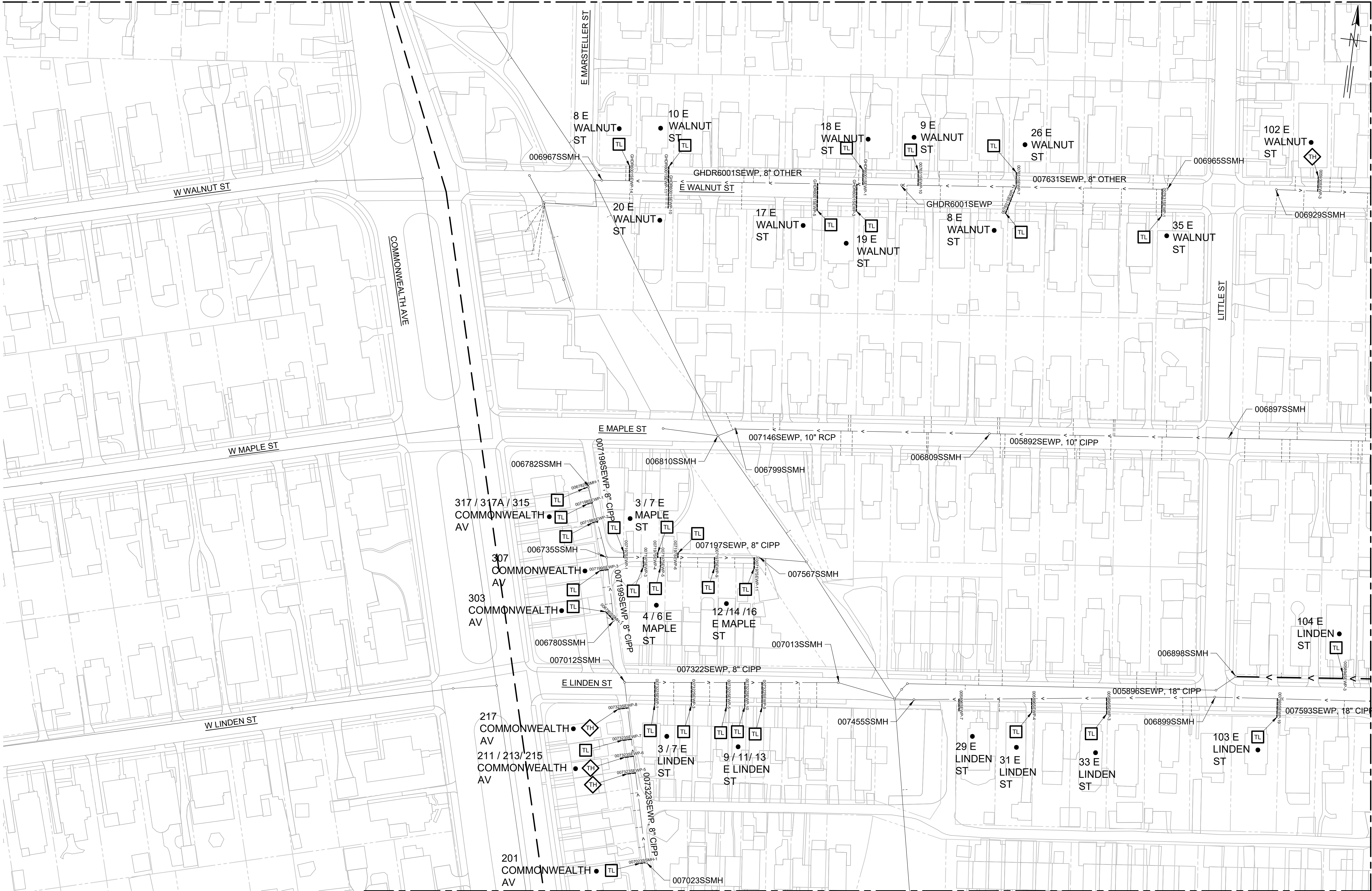
C-223

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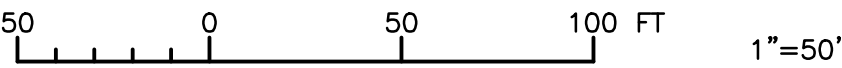
26 OF 35

SCALE AS SHOWN

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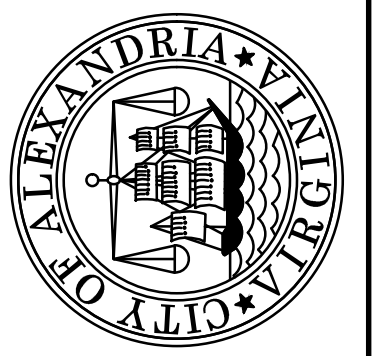


SITE PLAN
SCALE: 1"=50'



DEL RAY EAST LATERAL REHABILITATION DESIGN

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CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22314



SITE PLAN

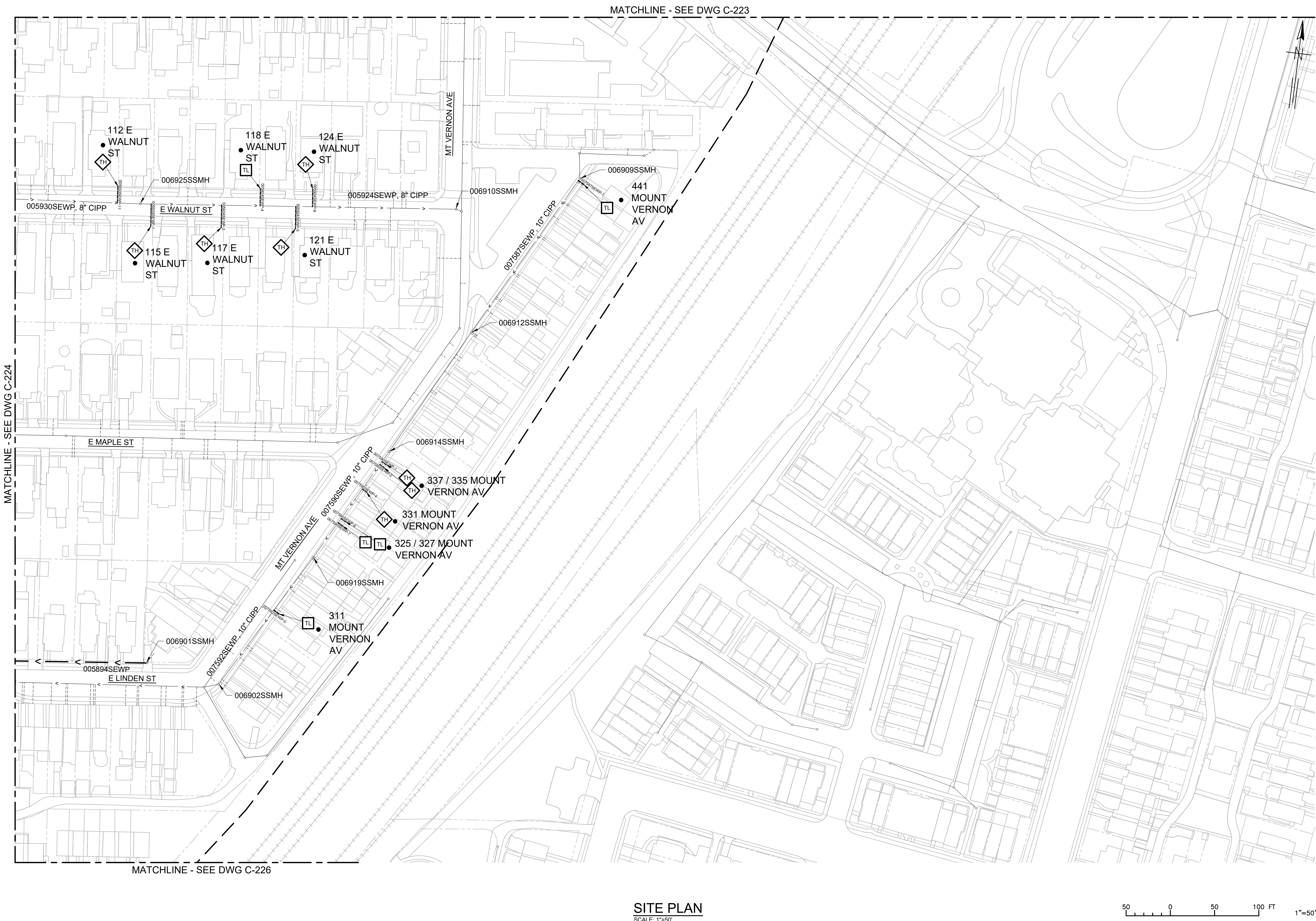
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SHEET
27 OF 35
SCALE AS SHOWN

REVISIONS		DESCRIPTION	
DATE	BY	REMOVED	RECOMMENDATIONS
07/2026	IGM	FOR 10, 24 & 34	E MAPLE ST.



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DEL RAY EAST LATERAL REHABILITATION DESIGN



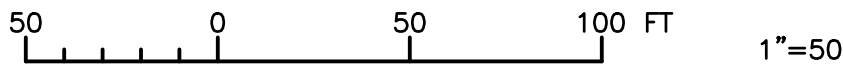
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 APPROVED BY: _____ DATE: _____



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SCALE AS SHOWN

DEL RAY EAST LATERAL REHABILITATION DESIGN



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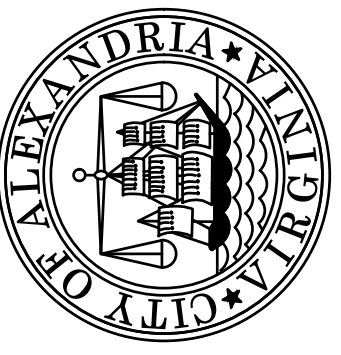
LATERAL ID	STREET ADDRESS	SIZE (IN)	MATERAIL	SURVEYED LENGHT (FT)	REHAB TYPE	DISTANCE FROM UPSTRWAM MH (FT)	DRAWING NUMBER
003884SSMH-1	321 ASHBY ST	6	CP	16.5	T-Liner	#N/A	C-204
004135SSMH-1	109 E DEL RAY AV	6	CP	22.2	T-Liner	#N/A	C-211
004351SSMH-2	3003 FULTON ST	6	CP	4.4	T-Liner	0.4	C-205
005894SEWP-3	104 E LINDEN ST	6	CAS	4.9	T-Liner	180.3	C-224
005896SEWP-3	33 E LINDEN ST	6	VCP	22.1	T-Liner	117.1	C-224
005896SEWP-4	31 E LINDEN ST	6	VCP	17.3	T-Liner	197.6	C-224
005896SEWP-7	29 E LINDEN ST	8	VCP	4	T-Liner	275.7	C-224
005903SEWP-3	226 E MONROE AV	4	VCP	12	T-Liner	70.7	C-217
005903SEWP-6	220 E MONROE AV	6	VCP	12	T-Liner	227.4	C-217
005904SEWP-8	223 E MONROE AV	6	CAS	1.4	T-Liner	212.3	C-217
005917SEWP-10	212 E MOUNT IDA AV	6	VCP	25.5	T-Liner	144.8	C-208
005917SEWP-3	218 E MOUNT IDA AV	6	VCP	15.4	T-Liner	41.9	C-208
005917SEWP-9	213 E MOUNT IDA AV	6	VCP	40.2	T-Liner	140	C-208
005924SEWP-1	115 E WALNUT ST	6	VCP	28.2	Top Hat	11.4	C-225
005924SEWP-3	117 E WALNUT ST	6	VCP	28.6	Top Hat	91	C-225
005924SEWP-4	118 E WALNUT ST	6	VCP	20.6	T-Liner	134.5	C-225
005924SEWP-5	121 E WALNUT ST	6	VCP	26.2	Top Hat	174.9	C-225
005924SEWP-6	124 E WALNUT ST	6	RCP	28.8	Top Hat	193.7	C-225
005926SEWP-12	206 E OAK ST	6	CP	12.9	T-Liner	185.5	C-223
005930SEWP-11	112 E WALNUT ST	6	VCP	14	Top Hat	216.3	C-225
005930SEWP-3	102 E WALNUT ST	6	VCP	22	Top Hat	43.7	C-224
006394SEWP-2	711 WAYNE ST	6	VCP	15.7	T-Liner	59.5	C-222
006396SEWP-1	607 WAYNE ST	6	VCP	6.4	T-Liner	64.7	C-222
006399SEWP-3	8 E OAK ST	6	CP	14.6	T-Liner	66.7	C-222
006633SEWP-12	111 E LURAY AV	6	VCP	18	T-Liner	87.2	C-219
006704SEWP-2	26 E BELLEFONTE AV	6	VCP	26.5	T-Liner	74.2	C-213
006704SEWP-4	37 E BELLEFONTE AV	6	CP	6	Top Hat	133.4	C-213
006704SEWP-5	28 E BELLEFONTE AV	6	VCP	31	Top Hat	135.3	C-213
006704SEWP-7	39 E BELLEFONTE AV	6	CP	5.4	Top Hat	214.5	C-213
006704SEWP-8	39 1/2 E BELLEFONTE AV	6	CP	4.4	Top Hat	215.7	C-213
006706SEWP-11	109 E HOWELL AV	6	CP	10	T-Liner	343.3	C-211
006706SEWP-15	103 E HOWELL AV	6	VCP	11.5	T-Liner	410.2	C-210
006706SEWP-3	1908 MOUNT VERNON AV	6	CP	7.4	T-Liner	123.2	C-211
006706SEWP-6	112 E HOWELL AV	6	VCP	16	T-Liner	174.2	C-211
006707SEWP-1	211 E HOWELL AV	6	VCP	22	T-Liner	9	C-211
006707SEWP-12	219 E HOWELL AV	6	CP	15.5	T-Liner	213.3	C-211
006707SEWP-13	221 E HOWELL AV	6	VCP	9.3	T-Liner	258.8	C-211
006707SEWP-3	213 E HOWELL AV	6	CP	6.1	T-Liner	45.2	C-211
006707SEWP-7	214 E HOWELL AV	6	VCP	2.2	T-Liner	97.8	C-211
006710SEWP-16	25 B E BELLEFONTE AV	6	VCP	9.9	T-Liner	340	C-213
006710SEWP-5	8 E BELLEFONTE AV	6	VCP	5.6	T-Liner	136.7	C-213
006719SSMH-1	117 ADAMS AV	6	CP	15.5	T-Liner	#N/A	C-219
006719SSMH-2	115 ADAMS AV	6	CP	15	T-Liner	#N/A	C-219
006770SSMH-1	17 E MASON AV	6	CAS	3.4	T-Liner	#N/A	C-216
006773SSMH-1	100 E MONROE AV	6	CAS	17.2	T-Liner	#N/A	C-216
006780SSMH-1	303 COMMONWEALTH AV	4	RCP	3.1	T-Liner	0	C-224
006782SSMH-1	317 COMMONWEALTH AV	4	RCP	2.1	T-Liner	0	C-224
006987SSMH-1	570 E NELSON AV	6	CP	22	T-Liner	#N/A	C-218
007023SSMH-1	201 COMMONWEALTH AV	4	RCP	8.5	T-Liner	0	C-224
007024SSMH-1	4 E ROSEMONT AV	4	CP	11.8	T-Liner	0	C-226
007031SSMH-1	32 MOUNT VERNON AV	4	CAS	3	T-Liner	#N/A	C-226
007085SEWP-3	207 A E SPRING ST	6	CP	22.2	Top Hat	87.3	C-219
007085SEWP-7	201 E SPRING ST	6	VCP	29.8	Top Hat	248.6	C-219
007087SEWP-3	225 SPRING ST	6	VCP	10.7	T-Liner	53.5	C-220
007087SEWP-4	218 SPRING ST	6	VCP	3.7	T-Liner	78.8	C-220
007088SEWP-2	7 E GLENDALE AV	6	VCP	6.8	Top Hat	72.7	C-219
007088SEWP-9	2 E GLENDALE AV	6	VCP	9.6	T-Liner	268.7	C-219
007089SEWP-5	10 E BRADDOCK RD	6	CP	28	T-Liner	59	C-219
007089SEWP-9	8 E BRADDOCK RD	6	CP	25	T-Liner	127.1	C-219
007125SEWP-4	18 E OAK ST	6	CAS	26	T-Liner	84	C-222
007144SEWP-2	15 E CHAPMAN ST	6	VCP	15.1	T-Liner	26.5	C-222
007156SEWP-4	1409 WAYNE ST	4	VCP	12	Top Hat	127.5	C-216
007156SEWP-5	117 E NELSON AV	4	PVC	30	T-Liner	160.1	C-216
007158SEWP-5	5 E NELSON AV	6	CP	13.4	Top Hat	211.7	C-216
007160SEWP-2	112 E ALEXANDRIA AV	6	VCP	41	T-Liner	29.6	C-216
007161SEWP-11	210 E ALEXANDRIA AV	6	VCP	15.5	T-Liner	214.5	C-216
007161SEWP-16	205 E ALEXANDRIA AV	6	VCP	21.2	T-Liner	328.2	C-216
007167SEWP-1	2 E LURAY AV	6	CP	10.8	Top Hat	71.1	C-219
007197SEWP-1	3 E MAPLE ST	6	RCP	8.5	T-Liner	17.5	C-224
007197SEWP-11	16 E LINDEN ST	6	RCP	9	T-Liner	157.5	C-224
007197SEWP-3	4 E LINDEN ST	6	RCP	4.9	T-Liner	38.5	C-224
007197SEWP-4	7 E MAPLE ST	6	RCP	9.3	T-Liner	53.8	C-224
007197SEWP-5	6 E LINDEN ST ALLEY	6	RCP	2.6	T-Liner	56.9	C-224

LATERAL ID	STREET ADDRESS	SIZE (IN)	MATERAIL	SURVEYED LENGHT (FT)	REHAB TYPE	DISTANCE FROM UPSTRWAM MH (FT)	DRAWING NUMBER
007197SEWP-6	9 E MAPLE ST	6	RCP	11.1	T-Liner	75.5	C-224
007197SEWP-9	12 E LINDEN ST	6	RCP	8.6	T-Liner	115	C-224
007198SEWP-1	317 A COMMONWEALTH AV	4	RCP	4.2	T-Liner	17	C-224
007198SEWP-2	315 COMMONWEALTH AV	6	RCP	4.7	T-Liner	37.9	C-224
007199SEWP-3	307 COMMONWEALTH AV	6	RCP	4.6	T-Liner	55	C-224
007212SEWP-18	14 1/2 E MYRTLE ST	6	CP	18.6	T-Liner	31.4	C-222
007212SEWP-4	5 1/2 E MYRTLE ST	6	CP	20.4	T-Liner	208.3	C-222
007212SEWP-8	7 1/2 E MYRTLE ST	6	CP	7.6	T-Liner	158.9	C-222
007212SEWP-9	10 E MYRTLE ST	6	CP	14.5	T-Liner	135.9	C-222
007213SEWP-1	100 E BRADDOCK RD	6	VCP	24.9	T-Liner	222	C-222
007213SEWP-2	900 LITTLE ST	6	VCP	35.4	T-Liner	29.8	C-222
007250SEWP-5	106 E DEL RAY AV	6	VCP	18	T-Liner	56	C-211
007258SEWP-3	13 E DEL RAY AV	6	CP	11.6	T-Liner	93.4	C-210
007263SEWP-10	215 E OXFORD AV	6	VCP	14	T-Liner	232.3	C-208
007263SEWP-7	218 E OXFORD AV	6	VCP	13.2	T-Liner	162.4	C-208
007263SEWP-8	217 E OXFORD AV	6	VCP	22	T-Liner	182.6	C-208
007263SEWP-9	216 E OXFORD AV	6	VCP	16	T-Liner	190.7	C-208
007267SSMH-3	212 E MASON AV	4	VCP	10.2	T-Liner	#N/A	C-213
007283SEWP-9	223 E MASON AV	6	CP	8.4	Top Hat	169	C-217
007304SEWP-2	15 E MASONIC VIEW AV	6	VCP	29.8	T-Liner	25.2	C-222
007311SEWP-8	209 E MASON AV	6	VCP	8.2	T-Liner	204	C-216
007322SEWP-1	3 E LINDEN ST	6	CAS	15.3	T-Liner	31.6	C-224
007322SEWP-10	13 E LINDEN ST	6	CAS	13.6	T-Liner	128.8	C-224
007322SEWP-3	7 E LINDEN ST	6	CAS	14.4	T-Liner	70.9	C-224
007322SEWP-5	11 E LINDEN ST	6	CAS	13	T-Liner	108.7	C-224
007322SEWP-9	15 E LINDEN ST	6	CAS	13.6	T-Liner	147.3	C-224
007322SSMH-2	422 E ALEXANDRIA AV	6	VCP	9	T-Liner	#N/A	C-217
007323SEWP-5	211 COMMONWEALTH AV	6	RCP	1	Top Hat	97.1	C-224
007323SEWP-6	213 COMMONWEALTH AV	6	RCP	7.7	Top Hat	115.1	C-224
007323SEWP-7	215 COMMONWEALTH AV	6	RCP	9	T-Liner	133.5	C-224
007323SEWP-8	217 COMMONWEALTH AV	6	RCP	16.7	Top Hat	167.4	C-224
007330SEWP-1	58 E ROSEMONT AV	6	RCP	15.3	T-Liner	15.6	C-226
007330SEWP-6	48 E ROSEMONT AV	6	RCP	11.3	T-Liner	100.3	C-226
007330SEWP-7	46 E ROSEMONT AV	6	RCP	14.9	T-Liner	101.3	C-226
007330SEWP-9	42 E ROSEMONT AV	6	RCP	21.2	T-Liner	153.8	C-226
007333SEWP-1	3 E ROSEMONT AV	6	CP	6.6	T-Liner	8.3	C-226
007333SEWP-15	18 E ROSEMONT AV	6	CP	14.5	T-Liner	145.8	C-226
007333SEWP-16	20 E ROSEMONT AV	6	CP	2.2	T-Liner	167.1	C-226
007333SEWP-2	6 E ROSEMONT AV	6	CP	13.6	T-Liner	11.2	C-226
007333SEWP-4	5 E ROSEMONT AV	6	CP	14.6	T-Liner	29.7	C-226
007333SEWP-5	7 E ROSEMONT AV	6	CP	13.9	T-Liner	48	C-226
007334SEWP-10	108 E ROSEMONT AV	6	RCP	8.4	T-Liner	192.8	C-226
007334SEWP-11	106 E ROSEMONT AV	6	CAS	36	T-Liner	203.3	C-226
007334SEWP-12	106 A E ROSEMONT AV	6	RCP	28.4	T-Liner	211.7	C-226
007334SEWP-14	102 E ROSEMONT AV	6	RCP	24.2	T-Liner	233.6	C-226
007334SEWP-15	100 E ROSEMONT AV	6	RCP	3.2	T-Liner	266	C-226
007334SEWP-9	110 E ROSEMONT AV	6	RCP	15.8	T-Liner	177.1	C-226
007336SEWP-12	105 COMMONWEALTH AV	6	CP	8.6	Top Hat	232.4	C-226
007336SEWP-14	77 COMMONWEALTH AV	6	CP	9	Top Hat	299.9	C-226
007336SEWP-19	69 COMMONWEALTH AV	6	CP	1.6	T-Liner	395.2	C-226
007336SEWP-4	119 COMMONWEALTH AV	6	PVC	7.5	T-Liner	61.4	C-226
007336SEWP-8	111 COMMONWEALTH AV	6	CP	6.5	T-Liner	155.9	C-226
007340SEWP-1	47 MOUNT VERNON AV	6	CP	2	Top Hat	31.5	C-226
007340SEWP-11	27 MOUNT VERNON AV	6	CP	26	T-Liner	219.1	C-226
007340SEWP-12	25 MOUNT VERNON AV	6	CP	18	T-Liner	220.2	C-226
007340SEWP-13	23 MOUNT VERNON AV	6	CP	18	T-Liner	254	C-226
007340SEWP-14	21 MOUNT VERNON AV	6	CP	18	T-Liner	255.1	C-226
007340SEWP-3	43 MOUNT VERNON AV	6	CP	18	T-Liner	65.5	C-226
007340SEWP-8	33 MOUNT VERNON AV	6	CP	26	T-Liner	166.7	C-226
007340SEWP-9	31 MOUNT VERNON AV	6	CP	22	T-Liner	167.8	C-226
007343SEWP-2	28 MOUNT VERNON AV	4	CP	24	Top Hat	27.9	C-226
007343SEWP-3	26 MOUNT VERNON AV	4	CAS	27	Top Hat	29.6	C-226
007343SEWP-4	24 MOUNT VERNON AV	4	CP	29	Top Hat	59.9	C-226
007344SEWP-11	40 MOUNT VERNON AV	6	CP	26	Top Hat	186.7	C-226
007344SEWP-2	108 MOUNT VERNON AV	4	PVC	24	Top Hat	8.8	C-226
007344SEWP-7	48 MOUNT VERNON AV	4	PVC	24.8	Top Hat	93.5	C-226
007347SEWP-1	117 MOUNT VERNON AV	6	CP	21	T-Liner	1.2	C-226
007347SEWP-12	57 MOUNT VERNON AV	6	CP	12.5	T-Liner	216.3	C-226
007347SEWP-13	55 MOUNT VERNON AV	6	CP	11	T-Liner	217.4	C-226
007347SEWP-16	49 MOUNT VERNON AV	6	CP	3.9	T-Liner	268.5	C-226
007347SEWP-8	103 MOUNT VERNON AV	6	CP	24	T-Liner	130.4	C-226
007370SEWP-2	319 E RAYMOND AV	6	VCP	7.7	T-Liner	28.6	C-206
007370SEWP-4	321 E RAYMOND AV	6	VCP	12	T-Liner	76.4	C-206

NOTES:
1. SURVEY LENGTH GOES BEYOND THE CURB LINE BY 8' AT MINIMUM. T-LINER AND CIPP LINING ARE TO BE DONE ON THE PUBLIC SECTION OF SANITARY LATERALS FROM MAINLINE CONNECTION TO THE CURB LINE.

DEL RAY EAST LATERAL REHABILITATION DESIGN

100% SUBMITTAL



CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22314

REVISIONS

DATE	DESCRIPTION

ALEXANDRIA PROJECT NO.:
DATE OF PLAN ISSUANCE:
CONSULTANT PROJECT ID:
DESIGNED BY: PEE DATE:
DRAWN BY: TSM DATE:
CHECKED BY: AJM DATE:
APPROVED BY: DATE:



SANITARY LATERAL
REHABILITATION TABLES

C-227

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30 OF 35

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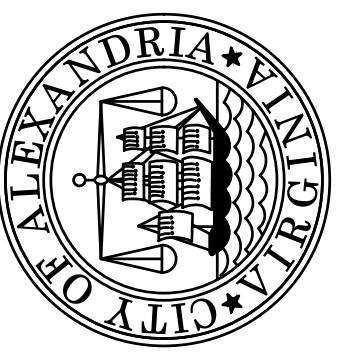
LATERAL ID	STREET ADDRESS	SIZE (IN)	MATERAIL	SURVEYED LENGHT (FT)	REHAB TYPE	DISTANCE FROM UPSTRWAM MH (FT)	DRAWING NUMBER
007371SEWP-1	314 E RAYMOND AV	6	VCP	25	T-Liner	34.2	C-206
007576SEWP-1	1006 RAMSEY ST	6	CP	10	T-Liner	18.6	C-220
007576SEWP-2	300 ADAMS AV	6	CP	9.5	T-Liner	58	C-220
007576SEWP-3	302 ADAMS AV	6	CP	11.7	T-Liner	117.6	C-220
007576SEWP-4	304 ADAMS AV	6	CP	13.5	T-Liner	125.5	C-220
007576SEWP-5	305 ADAMS AV	6	CP	13.5	T-Liner	171.3	C-220
007577SEWP-10	109 ADAMS AV	6	CP	10.4	T-Liner	42.9	C-219
007577SEWP-11	110 ADAMS AV	6	CP	24.6	T-Liner	31.9	C-219
007587SEWP-1	441 MOUNT VERNON AV	6	VCP	1.3	T-Liner	3.7	C-225
007590SEWP-1	337 MOUNT VERNON AV	6	PVC	2	Top Hat	14.1	C-225
007590SEWP-2	335 MOUNT VERNON AV	6	VCP	4.9	Top Hat	18.4	C-225
007590SEWP-4	331 MOUNT VERNON AV	6	PVC	5.8	Top Hat	52.2	C-225
007590SEWP-6	327 MOUNT VERNON AV	6	VCP	1.4	T-Liner	93.3	C-225
007590SEWP-7	325 MOUNT VERNON AV	6	VCP	4.1	T-Liner	99.2	C-225
007592SEWP-5	311 MOUNT VERNON AV	6	VCP	1.4	T-Liner	74.6	C-225
007593SEWP-19	103 E LINDEN ST	6	VCP	13.8	T-Liner	314.7	C-224
007606SEWP-6	306 E OAK ST	6	CP	16	T-Liner	247	C-223
007622SEWP-10	111 E BRADDOCK RD	6	CP	35.2	T-Liner	249.4	C-222
007625SEWP-4	206 E BRADDOCK RD	6	PVC	10.5	T-Liner	189.2	C-223
007630SEWP-7	705 LITTLE ST	6	VCP	25.7	T-Liner	181.4	C-222
007631SEWP-1	35 E WALNUT ST	6	VCP	26.5	T-Liner	6	C-224
007631SEWP-10	20 E WALNUT ST	6	PVC	18	T-Liner	245.8	C-224
007631SEWP-14	25 E WALNUT ST	6	VCP	30	T-Liner	162.9	C-224
007631SEWP-7	26 E WALNUT ST	6	VCP	29.8	T-Liner	162.9	C-224
007653SEWP-3	412 E MONROE AV	6	CP	14.1	T-Liner	59.4	C-217
007654SEWP-11	418 E NELSON AV	6	CP	18	T-Liner	17	C-217
007654SEWP-21	432 E NELSON AV	6	CP	1.2	T-Liner	116.9	C-217
007654SEWP-5	430 E NELSON AV	6	CP	17.7	T-Liner	116.9	C-217
007656SEWP-12	549 E NELSON AV	6	CP	16.3	T-Liner	196.9	C-218
007656SEWP-13	544 E NELSON AV	6	CP	15.2	T-Liner	213.4	C-218
007656SEWP-23	552 E NELSON AV	6	CP	2	T-Liner	163.4	C-218
007656SEWP-7	557 E NELSON AV	6	CP	18	T-Liner	127.8	C-218
007668SEWP-2	528 E ALEXANDRIA AV	6	CP	6.4	T-Liner	94	C-218
007668SEWP-26	522 E ALEXANDRIA AV	6	CP	12	T-Liner	147.2	C-218
007668SEWP-6	529 E ALEXANDRIA AV	6	CP	14.5	T-Liner	162.4	C-217
007668SEWP-8	514 E ALEXANDRIA AV	6	CP	16.8	T-Liner	216.7	C-217
007669SEWP-38	507 E LURAY AV	6	CP	10.7	T-Liner	49.2	C-220
007670SEWP-19	530 E GLENDALE AV	6	CP	32.4	T-Liner	40.4	C-221
007670SEWP-2	502 E GLENDALE AV	6	CP	1.7	T-Liner	326.6	C-220
007670SEWP-5	506 E GLENDALE AV	6	CP	1.1	T-Liner	292.9	C-220
007670SEWP-6	508 E GLENDALE AV	6	CP	1.1	T-Liner	274.4	C-220
007670SEWP-7	510 E GLENDALE AV	6	CP	1	T-Liner	252.8	C-220
007670SEWP-8	512 E GLENDALE AV	6	CP	1	T-Liner	240.7	C-220
007671SEWP-2	412 E GLENDALE AV	6	CAS	50	Top Hat	362.6	C-220
007671SEWP-4	416 E GLENDALE AV	6	CAS	20.9	Top Hat	312.6	C-220
007671SEWP-5	420 E GLENDALE AV	6	CP	20.4	T-Liner	267.2	C-220
007671SEWP-6	422 E GLENDALE AV	6	CAS	14.6	Top Hat	191.1	C-220
007671SEWP-7	424 E GLENDALE AV	6	CAS	13.9	Top Hat	137.4	C-220
007795SSMH-1	209 E DUNCAN AV	6	CP	20.5	T-Liner	#N/A	C-214
007925SEWP-5	313 E MASON AV	6	PVC	10	T-Liner	158.6	C-214
007938SEWP-4	1707 DEWITT AV	6	CP	28	T-Liner	95.8	C-214
007952SEWP-6	302 E LURAY AV	6	VCP	49.1	T-Liner	157.4	C-220
007953SEWP-1	300 E ALEXANDRIA AV	6	PVC	16.3	T-Liner	263.1	C-217
007953SEWP-4	302 E ALEXANDRIA AV	6	VCP	16.8	T-Liner	187.7	C-217
007953SEWP-5	304 E ALEXANDRIA AV	6	VCP	27.9	T-Liner	127.8	C-217
007972SEWP-14	214 E LURAY AV	6	VCP	32.4	T-Liner	99.2	C-220
007979SEWP-1	419 E ALEXANDRIA AV	6	VCP	16	T-Liner	15.1	C-217
007979SEWP-2	420 E ALEXANDRIA AV	6	CP	26	T-Liner	26.7	C-217
007979SEWP-3	417 E ALEXANDRIA AV	6	CP	16	T-Liner	63	C-217
007979SEWP-9	414 E ALEXANDRIA AV	6	CP	26	T-Liner	137.9	C-217
007982SEWP-12	422 E LURAY AV	6	CP	9.8	Top Hat	200.3	C-220
007982SEWP-17	421 E LURAY AV	6	CP	10.4	T-Liner	135.2	C-220
007982SEWP-22	415 E LURAY AV	6	CP	11.9	T-Liner	95.5	C-220
007982SEWP-8	426 E LURAY AV	6	CP	10.1	T-Liner	227.6	C-220
007983SEWP-1	406 E LURAY AV	6	VCP	25.4	T-Liner	167.2	C-220
007983SEWP-10	410 E LURAY AV	4	VCP	6.8	T-Liner	52.7	C-220
008000SEWP-6	307 E DUNCAN AV	6	CP	10	T-Liner	195.8	C-214
008059SEWP-11	128 HUME AV	6	VCP	33.5	T-Liner	441.9	C-205
008059SEWP-2	305 HUME AV	6	VCP	46.7	T-Liner	57	C-205
008059SEWP-8	205 HUME AV	6	VCP	21.2	T-Liner	310.5	C-205
008061SEWP-1	2505 RANDOLPH AV	6	VCP	2.5	T-Liner	3.7	C-209
008063SEWP-11	2619 RANDOLPH AV	6	VCP	3.5	T-Liner	297.2	C-205
008063SEWP-7	2606 RANDOLPH AV	6	CP	9	T-Liner	96.9	C-209

LATERAL ID	STREET ADDRESS	SIZE (IN)	MATERAIL	SURVEYED LENGHT (FT)	REHAB TYPE	DISTANCE FROM UPSTRWAM MH (FT)	DRAWING NUMBER
008064SEWP-18	401 E RAYMOND AV	6	VCP	1.7	T-Liner	318.8	C-206
008081SEWP-2	219 E BELLEFONTE AV	6	VCP	13.1	T-Liner	32.9	C-214
008082SEWP-10	13 E HOWELL AV	6	VCP	8.5	T-Liner	221.2	C-210
008083SEWP-1	5 E WINDSOR AV	6	VCP	30	T-Liner	0.9	C-210
008083SEWP-4	2003 COMMONWEALTH AV	6	VCP	21.7	T-Liner	112.8	C-210
008086SEWP-2	18 E HOWELL AV	6	VCP	8.5	T-Liner	57.9	C-210
008086SEWP-3	18 E HOWELL AV	6	VCP	18	T-Liner	59.8	C-210
008087SEWP-1	21 E HOWELL AV	6	CP	12.6	T-Liner	34.7	C-210
008087SEWP-4	23 E HOWELL AV	6	VCP	11	T-Liner	52	C-210
008088SEWP-1	22 E WINDSOR AV	6	VCP	16	T-Liner	2.2	C-210
008102SEWP-18	311 WESMOND DR	6	CP	0.4	T-Liner	93.9	C-204
008103SEWP-12	229 WESMOND DR	6	CP	19.2	T-Liner	161.3	C-204
008103SEWP-13	235 WESMOND DR	6	CP	18.8	T-Liner	207.3	C-204
008121SEWP-18	232 LYNHAVEN DR	6	CP	12.2	T-Liner	275.7	C-202
008121SEWP-23	219 LYNHAVEN DR	6	CP	35.6	T-Liner	339.8	C-202
008121SEWP-27	210 LYNHAVEN DR	6	CP	9.1	T-Liner	421.5	C-202
008124SEWP-2	110 1/2 E REED AV	6	CP	15.1	T-Liner	41.4	C-202
008124SEWP-4	106 E REED AV	6	CP	7.1	T-Liner	141.2	C-202
008124SEWP-8	108 E REED AV	6	CP	13.4	T-Liner	83.7	C-202
008138SEWP-11	408 HUME AV	6	VCP	29.8	Top Hat	89.4	C-206
008138SEWP-13	411 HUME AV	6	VCP	1.4	T-Liner	69.3	C-206
008138SEWP-14	410 HUME AV	6	VCP	34	T-Liner	55.1	C-206
008138SEWP-17	414 HUME AV	6	VCP	9.2	Top Hat	20.9	C-206
008138SEWP-5	404 HUME AV	6	VCP	30	Top Hat	208.7	C-206
008138SEWP-7	406 HUME AV	6	VCP	30	Top Hat	186.4	C-206
008139SEWP-3	416 HUME AV	6	VCP	20.5	T-Liner	278.8	C-206
008143SEWP-1	322 A CLIFFORD AV	6	VCP	5	T-Liner	4.4	C-206
008143SEWP-5	325 CLIFFORD AV	6	VCP	26.5	T-Liner	67	C-206
008145SEWP-7	320 LA VERNE AV	6	VCP	55.4	T-Liner	122.5	C-204
008165SEWP-3	3520 WILSON AV	6	CP	11.3	T-Liner	90.4	C-201
008175SEWP-15	315 B LA VERNE AV	6	VCP	51	T-Liner	312.4	C-204
008175SEWP-8	311 LA VERNE AV	6	VCP	64	T-Liner	210.1	C-204
008177SEWP-3	319 CLIFFORD AV	6	VCP	18.7	T-Liner	250.6	C-206
008178SEWP-10	306 E GLEBE RD	6	VCP	3.2	T-Liner	213.5	C-204
008178SEWP-13	307 E GLEBE RD	6	VCP	19	T-Liner	115.7	C-204
008178SEWP-6	314 E GLEBE RD	6	VCP	15.4	T-Liner	44.5	C-204
008181SEWP-4	414 CLIFFORD AV	6	VCP	30.9	T-Liner	132.1	C-206
008219SEWP-1	411 E BELLEFONTE AV	6	VCP	5.5	T-Liner	15.2	C-215
008219SEWP-5	404 E BELLEFONTE AV	6	CP	19	T-Liner	144.8	C-215
008221SEWP-1	320 E BELLEFONTE AV	6	VCP	1.6	Top Hat	47.6	C-215
008221SEWP-10	309 E BELLEFONTE AV	6	CP	3	Top Hat	290.3	C-214
008221SEWP-4	312 E BELLEFONTE AV	6	CP	13.5	Top Hat	197.3	C-214
008221SEWP-9	309 A E BELLEFONTE AV	6	CP	6.8	Top Hat	289.1	C-214
008223SEWP-6	304 E BELLEFONTE AV	6	CP	16	T-Liner	120.6	C-214
008224SEWP-15	405 E HOWELL AV	6	CP	13	T-Liner	151.8	C-212
008224SEWP-16	403 E HOWELL AV	6	CP	13	T-Liner	153.5	C-212
008224SEWP-21	400 E HOWELL AV	6	VCP	16	Top Hat	238	C-212
008224SEWP-5	408 E HOWELL AV	6	CP	8	Top Hat	46.5	C-212
008225SEWP-3	419 E HOWELL AV	6	VCP	24	T-Liner	100.4	C-212
008225SEWP-4	418 E HOWELL AV	6	VCP	7	T-Liner	108.5	C-212
008226SEWP-3	319 E HOWELL AV	6	VCP	5.1	T-Liner	62.6	C-212
008226SEWP-4	317 E HOWELL AV	6	CP	6.2	T-Liner	95.5	C-211
008226SEWP-6	315 E HOWELL AV	6	CP	6	T-Liner	144.8	C-211
008226SEWP-9	311 E HOWELL AV	6	VCP	21.3	T-Liner	224.2	C-211
008230SEWP-2	307 E HOWELL AV	6	VCP	7.5	T-Liner	60.3	C-211
008250SEWP-2	321 E CUSTIS AV	6	VCP	22.1	T-Liner	53.3	C-212
008260SEWP-1	320 E DEL RAY AV	6	CP	8.3	Top Hat	45.6	C-212
008260SEWP-2	319 E DEL RAY AV	6	CP	21.1	T-Liner	45.9	C-212
008262SEWP-14	2409 LESLIE AV	6	CP	15.8	T-Liner	299.9	C-209
008262SEWP-6	2403 LESLIE AV	6	PVC	33.3	T-Liner	147.8	C-209
008316SEWP-8	2403 MOUNT VERNON AV	6	PVC	18	T-Liner	216.8	C-208
008369SEWP-12	8 E OXFORD AV	6	VCP	12.1	T-Liner	181.5	C-207
008369SEWP-13	9 E OXFORD AV	6	VCP	20	T-Liner	186.5	C-207
008391SEWP-4	110 RANDOLPH AV	6	PVC	6.1	T-Liner	100.3	C-205
008391SEWP-5	107 RANDOLPH AV	6	VCP	25.4	T-Liner	151.1	C-205
008391SEWP-8	106 RANDOLPH AV	6	VCP	16.6	T-Liner	203.1	C-205
008498SEWP-3	11 E WINDSOR AV	6	VCP	15.5	T-Liner	134.2	C-210
008500SEWP-11	210 E WINDSOR AV	6	VCP	18	T-Liner	258.7	C-211
008500SEWP-14	213 E WINDSOR AV	6	VCP	14.6	T-Liner	301.6	C-211
008500SEWP-5	205 E WINDSOR AV	6	VCP	22.3	T-Liner	107.7	C-211
008505SEWP-17	202 E CUSTIS AV	6	VCP	8.7	T-Liner	233.4	C-211
008506SEWP-14	100 E CUSTIS AV	6	AC	1.7	T-Liner	432.4	C-210
008514SEWP-15	7 E CUSTIS AV	6	CP	15.5	T-Liner	211.6	C-210

NOTES:
1. SURVEY LENGTH GOES BEYOND THE CURB LINE BY 8' AT MINIMUM; T-LINER AND CIPP LINING ARE TO BE DONE ON THE PUBLIC SECTION OF SANITARY LATERALS FROM MAINLINE CONNECTION TO THE CURB LINE.

DEL RAY EAST LATERAL REHABILITATION DESIGN

100% SUBMITTAL



CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22314

REVISIONS

DATE	DESCRIPTION

ALEXANDRIA PROJECT NO.:
DATE OF PLAN ISSUANCE:
CONSULTANT PROJECT ID:
DESIGNED BY:
DRAWN BY:
CHECKED BY:
APPROVED BY:



SANITARY LATERAL
REHABILITATION TABLES

C-228

SHEET
31 OF 35

SCALE AS SHOWN

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LATERAL ID	STREET ADDRESS	SIZE (IN)	MATERAIL	SURVEYED LENGHT (FT)	REHAB TYPE	DISTANCE FROM UPSTRWAM MH (FT)	DRAWING NUMBER
008517SEWP-1	222 E DEL RAY AV	6	VCP	14	T-Liner	61	C-211
008517SEWP-2	223 E DEL RAY AV	6	VCP	1	T-Liner	66	C-211
008517SEWP-6	218 E DEL RAY AV	6	VCP	4.6	T-Liner	121.2	C-211
008518SEWP-7	305 E DEL RAY AV	6	CP	15.5	T-Liner	121.4	C-211
008561SEWP-6	119 STEWART AV	6	VCP	30.8	T-Liner	98	C-208
008564SEWP-5	118 RANDOLPH AV	6	PVC	14.6	T-Liner	105.5	C-205
008572SEWP-12	3045 MANNING ST	6	CP	15	T-Liner	197	C-203
008609SEWP-7	103 E RAYMOND AV	6	VCP	2	T-Liner	128	C-205
008609SEWP-8	103 A E RAYMOND AV	6	VCP	30	Top Hat	177.5	C-205
008609SEWP-9	2809 MOUNT VERNON AV	6	VCP	1.5	T-Liner	179.5	C-205
008633SEWP-1	2401 TERRETT AV	6	VCP	40.1	T-Liner	8	C-208
008633SEWP-2	2403 TERRETT AV	6	VCP	24.1	T-Liner	46.5	C-208
008633SEWP-3	2400 TERRETT AV	6	VCP	21.2	T-Liner	48.5	C-208
008634SEWP-11	111 E RAYMOND AV	6	VCP	1	Top Hat	312.4	C-205
008634SEWP-8	118 E RAYMOND AV	6	VCP	6	T-Liner	214.6	C-205
008635SEWP-1	106 HUME AV	6	VCP	41.1	T-Liner	126.3	C-205
008638SEWP-1	126 HUME AV	6	VCP	50	T-Liner	19.5	C-205
008653SEWP-14	111 CLIFFORD AV	6	CP	10.5	T-Liner	355.9	C-205
008734SEWP-1	2501 TERRETT AV	6	VCP	45.7	T-Liner	3.9	C-208
008734SEWP-10	2511 TERRETT AV	6	VCP	41.9	T-Liner	247.5	C-208
008734SEWP-6	2507 TERRETT AV	6	VCP	8.6	T-Liner	146	C-208
008734SEWP-8	2509 TERRETT AV	6	VCP	40.2	T-Liner	194.7	C-208
008735SEWP-15	2605 TERRETT AV	6	CP	18.3	T-Liner	135.3	C-208
008735SEWP-6	2610 TERRETT AV	6	PVC	27.3	Top Hat	257.5	C-205
008735SEWP-7	213 RANDOLPH AV	6	CP	40.2	T-Liner	255.9	C-205
008735SEWP-9	2607 TERRETT AV	6	PVC	28.4	T-Liner	205.8	C-205
008789SEWP-2	3017 FULTON ST	6	VCP	30	T-Liner	110.5	C-203
008789SEWP-3	3015 FULTON ST	6	VCP	1.5	T-Liner	110.5	C-203
008789SEWP-4	3013 FULTON ST	6	CP	15	T-Liner	83.4	C-203
008799SEWP-13	203 LA VERNE AV	6	VCP	55	T-Liner	307.8	C-203
008799SEWP-2	213 LA VERNE AV	6	CP	50.5	T-Liner	55.1	C-203
008799SEWP-7	207 LA VERNE AV	6	VCP	60	T-Liner	215.8	C-203
008799SEWP-8	204 LA VERNE AV	6	VCP	15.8	T-Liner	244.3	C-203
008800SEWP-6	206 CLIFFORD AV	6	VCP	11.7	T-Liner	301.9	C-205
008800SEWP-8	207 CLIFFORD AV	6	VCP	21.5	T-Liner	273.5	C-205
009459SEWP-8	17 E CHAPMAN ST	6	VCP	26.9	T-Liner	265.7	C-222
GHDR010SEWP-5	205 E HOWELL AV	6	VCP	6	T-Liner	140.6	C-211
GHDR010SEWP-9	207 E HOWELL AV	6	CP	6	T-Liner	237.7	C-211
GHDR022SEWP-1	319 E MONROE AV	6	CP	35.3	T-Liner	283	C-217
GHDR022SEWP-11	313 E MONROE AV	6	CP	44	T-Liner	106.2	C-217
GHDR022SEWP-3	318 E MONROE AV	6	CP	6.3	T-Liner	255.5	C-217
GHDR1001SEWP-12	235 EVANS LA	6	CP	17.1	T-Liner	244.8	C-202
GHDR1001SEWP-4	215 EVANS LA	6	CP	18	T-Liner	67.9	C-202
GHDR1006SEWP-7	14 E CUSTIS AV	6	CP	8.4	Top Hat	101.3	C-210
GHDR1008SSMH-1	1710 MOUNT VERNON AV	6	RCP	7.3	T-liner	#N/A	C-214
GHDR1017SEWP-3	53 E ROSEMONT AV	4	CAS	10	T-Liner	30.7	C-226
GHDR1018SEWP-1	43 E ROSEMONT AV	4	CAS	10	T-Liner	0.4	C-226
GHDR1018SEWP-2	41 E ROSEMONT AV	4	CAS	10	T-Liner	3.5	C-226
GHDR1018SEWP-3	39 E ROSEMONT AV	4	CAS	10	T-Liner	31.6	C-226
GHDR1018SEWP-4	37 E ROSEMONT AV	4	CAS	10	T-Liner	35.1	C-226
GHDR1020SEWP-1	213 ASHBY ST	6	VCP	13	T-Liner	10.5	C-203
GHDR1020SEWP-15	311 ASHBY ST	6	CP	10	T-Liner	240.6	C-204
GHDR1020SEWP-19	313 ASHBY ST	6	CP	8.9	T-Liner	277.6	C-204
GHDR1020SEWP-4	301 ASHBY ST	6	VCP	1	T-Liner	91.9	C-203
GHDR1021SEWP-2	3310 MONTROSE AV	6	CP	17	T-Liner	46.2	C-202
GHDR1021SEWP-3	3306 MONTROSE AV	6	CP	16.5	Top Hat	70.6	C-202
GHDR1023SEWP-6	105 E NELSON AV	4	PVC	12	T-Liner	35	C-216
GHDR1052SEWP-2	604 LITTLE ST	6	VCP	27.1	T-Liner	55	C-222
GHDR3001SEWP-10	312 HUME AV	6	VCP	51.4	T-Liner	157.1	C-206
GHDR3001SEWP-14	308 HUME AV	6	VCP	16.8	T-Liner	88.3	C-206
GHDR3001SEWP-4	315 HUME AV	6	CP	13.1	Top Hat	207.5	C-206
GHDR3001SEWP-5	314 A HUME AV	6	CAS	21.1	Top Hat	199.9	C-206
GHDR4050SEWP-1	2809 A MOUNT VERNON AV	6	VCP	36.3	T-Liner	191.2	C-205
GHDR4052SEWP-1	100 E ALEXANDRIA AV	6	PVC	19.1	T-Liner	8.5	C-216
GHDR4052SEWP-11	3 E ALEXANDRIA AV	6	CP	13.1	Top Hat	309.6	C-216
GHDR4052SEWP-12	1 E ALEXANDRIA AV	6	CP	13	Top Hat	311	C-216
GHDR4052SEWP-3	14 E ALEXANDRIA AV	6	VCP	13.1	T-Liner	81	C-216
GHDR4052SEWP-8	5 A E ALEXANDRIA AV	6	CP	11.5	Top Hat	255.5	C-216
GHDR4052SEWP-9	5 E ALEXANDRIA AV	6	CP	11.5	Top Hat	257.3	C-216
GHDR4054SEWP-1	1001 RAMSEY ST	6	VCP	3.6	T-Liner	3.2	C-220
GHDR4054SEWP-2	905 RAMSEY ST	6	CP	15.9	T-Liner	97.4	C-223
GHDR4054SEWP-5	900 RAMSEY ST	6	CP	14.8	T-Liner	189.2	C-223
GHDR6001SEWP-1	18 E WALNUT ST	6	VCP	5	T-Liner	36.8	C-224

LATERAL ID	STREET ADDRESS	SIZE (IN)	MATERAIL	SURVEYED LENGHT (FT)	REHAB TYPE	DISTANCE FROM UPSTRWAM MH (FT)	DRAWING NUMBER
GHDR6001SEWP-10	9 E WALNUT ST	6	VCP	18.5	T-Liner	245.4	C-224
GHDR6001SEWP-11	10 E WALNUT ST	6	VCP	40	T-Liner	245.7	C-224
GHDR6001SEWP-14	8 E WALNUT ST	6	VCP	16.8	T-Liner	287.6	C-224
GHDR6001SEWP-3	19 E WALNUT ST	6	VCP	17.3	T-Liner	43.4	C-224
GHDR6001SEWP-5	17 E WALNUT ST	6	PVC	19.7	T-Liner	85.5	C-224

NOTES:
1. SURVEY LENGTH GOES BEYOND THE CURB LINE BY 8' AT MINIMUM;
T-LINER AND CIPP LINING ARE TO BE DONE ON THE PUBLIC SECTION OF
SANITARY LATERALS FROM MAINLINE CONNECTION TO THE CURB LINE.

100% SUBMITTAL

DEL RAY EAST LATERAL REHABILITATION DESIGN



CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22314

REVISIONS

DATE	BY	DESCRIPTION

ALEXANDRIA PROJECT NO.:	
DATE OF PLAN ISSUANCE:	
CONSULTANT PROJECT ID.:	
DESIGNED BY:	PEE DATE:
DRAWN BY:	TSM DATE:
CHECKED BY:	AM DATE:
APPROVED BY:	DATE:



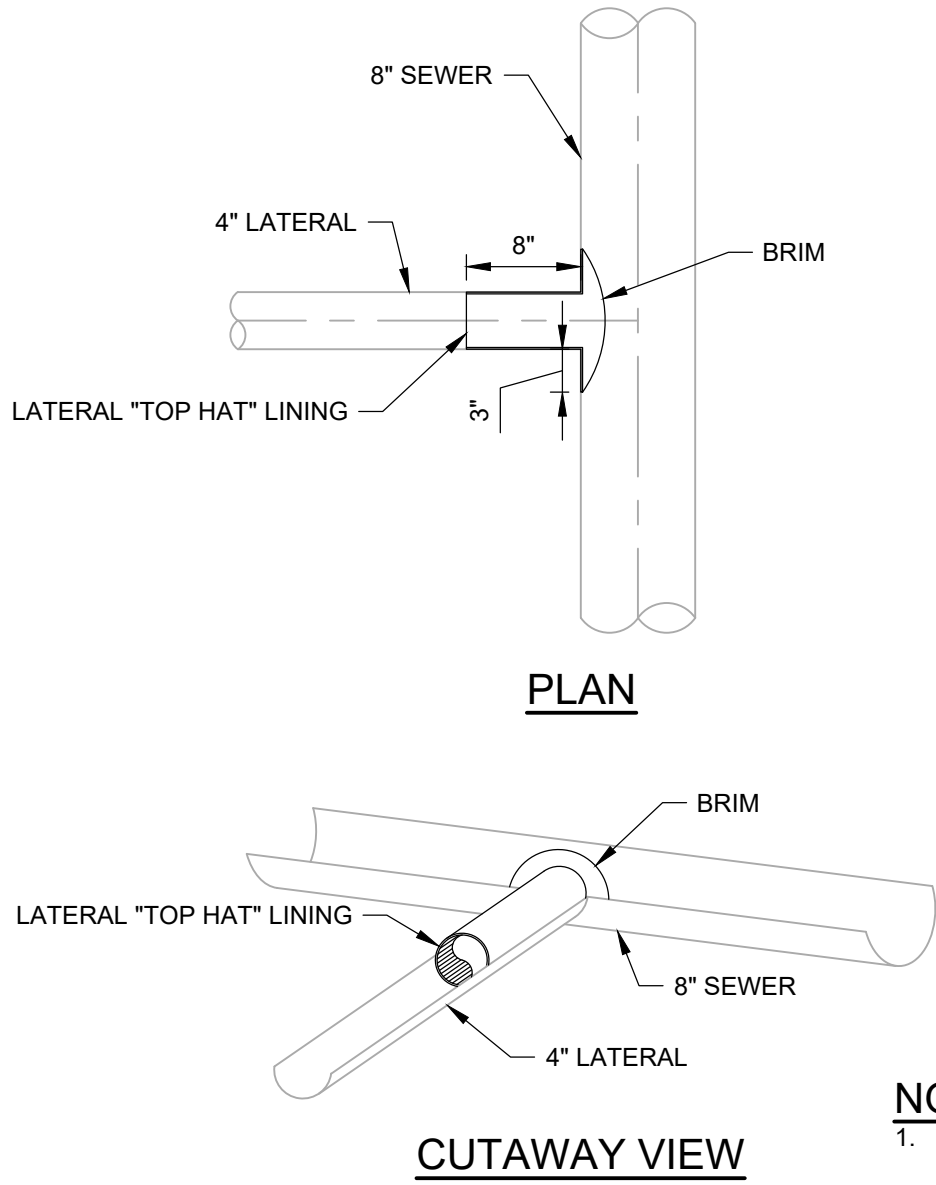
SANITARY LATERAL
REHABILITATION TABLES

C-229

SHEET
32 OF 35

SCALE AS SHOWN

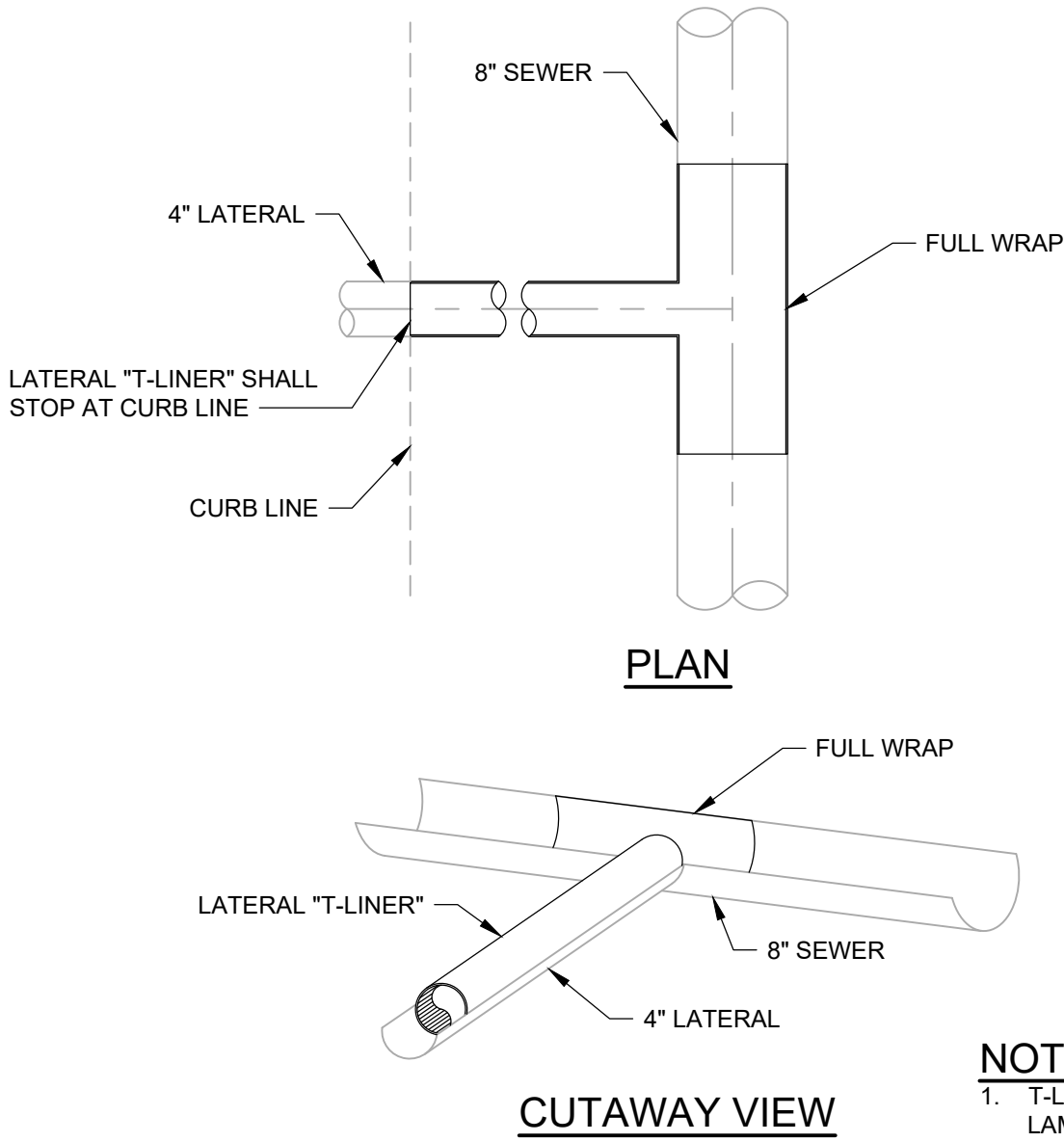
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- NOTES:**
1. TOP HAT LINING SHALL BE GLASS FIBER LAMINATE (GRP).
 2. USE ON 4" OR 6" LATERALS.
 3. TOP HAT LINING LENGTH SHALL BE 8" UNLESS OTHERWISE APPROVED.

LATERAL TOP HAT LINING

NOT TO SCALE



- NOTES:**
1. T-LINER SHALL BE GLASS FIBER LAMINATE (GRP).
 2. USE ON 4" OR 6" LATERALS.
 3. LATERAL "T-LINER" LINING SHALL STOP AT CURB LINE.

LATERAL T-LINER

NOT TO SCALE

DEL RAY EAST LATERAL REHABILITATION DESIGN

100% SUBMITTAL



STANDARD DETAILS

C-231

SHEET

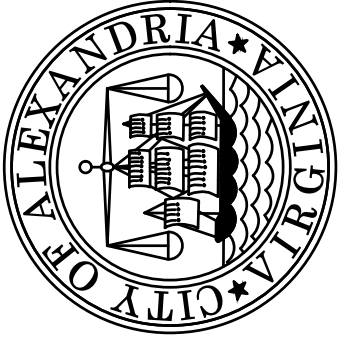
34 OF 35

SCALE AS SHOWN

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DEPARTMENT OF PROJECT IMPLEMENTATION
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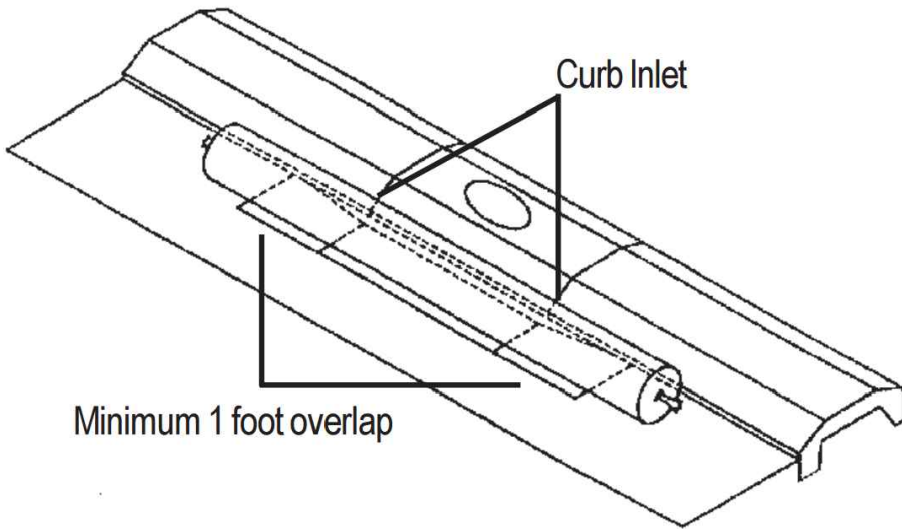
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DIAL 811 IN VIRGINIA OR
1-800-552-7001

GENERAL EROSION AND SEDIMENT CONTROL NOTES

- 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).
- AN EROSION AND SEDIMENT CONTROL PLAN MUST BE APPROVED BY THE DIRECTOR OF PROJECT IMPLEMENTATION PRIOR TO ANY LAND DISTURBING ACTIVITY GREATER THAN 2,500 SQUARE FEET.
- THE CONTRACTORS ARE TO KEEP DENUDED AREAS TO A MINIMUM. ALL EROSION / SEDIMENT CONTROL MEASURES WILL CONFORM TO THE CURRENT STANDARDS OF THE CITY OF ALEXANDRIA AND THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK (VESCH).
- UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CONSTRUCTED AND MAINTAINED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK (VESCH) AND VIRGINIA REGULATIONS §4VAC50-30 EROSION AND SEDIMENT CONTROL REGULATIONS.
- DEPARTMENT OF PROJECT IMPLEMENTATION 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. CERTIFIED RESPONSIBLE LAND DISTURBER (CRLD) IS REQUIRED TO ATTEND PRE-CONSTRUCTION MEETING.
- ALL EROSION AND SEDIMENT CONTROL MEASURE ARE TO BE PLACED PRIOR TO OR AS THE FIRST STEP IN CLEARING, AS NEEDED. AN INSPECTION BY THE CITY OF ALEXANDRIA IS REQUIRED AFTER INITIAL INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND BEFORE ANY 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.
- ALL DISTURBED AREAS OF THE SITE NOT TO BE WORKED FOR SEVEN OR MORE CALENDAR DAYS MUST BE STABILIZED.
- 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.
- 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 THE INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES AS NECESSARY TO PREVENT EROSION AND SEDIMENTATION AND AS DETERMINED BY THE CITY OF ALEXANDRIA.
- ANY DENUDED SLOPES, EITHER DISTURBED OR CREATED BY THIS PLAN THAT EXCEED 2500 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.
- AT THE COMPLETION OF THE PROJECT ALL DISTURBED AREAS SHALL BE STABILIZED AND ALL TEMPORARY EROSION AND SEDIMENT CONTROL SHALL BE REMOVED.
- PER DEQ GUIDANCE MEMO 15-2003, FOR LINEAR DEVELOPMENT PROJECTS SUCH AS THIS THAT WILL NOT RESULT IN SIGNIFICANT CHANGES TO THE PREDEVELOPMENT RUNOFF CHARACTERISTICS OF THE LAND SURFACE AFTER THE COMPLETION OF CONSTRUCTION AND FINAL STABILIZATION, THE REQUIREMENT FOR THE PREPARATION AND IMPLEMENTATION OF A STORMWATER MANAGEMENT PLAN IS WAIVED PROVIDED THE FOLLOWING LANGUAGE IS ADDED TO THE PLAN SET AND ADHERED TO IN THE FIELD:
 - THE DISTURBED LAND WHERE WORK HAS BEEN COMPLETED MUST BE ADEQUATELY STABILIZED ON A DAILY BASIS. THE OWNER AND/OR CONSTRUCTION ACTIVITY OPERATOR MUST DESIGN, INSTALL, IMPLEMENT, AND MAINTAIN POLLUTION PREVENTION MEASURES TO;
 - MINIMIZE THE DISCHARGE OF POLLUTANTS FROM EQUIPMENT AND VEHICLE WASHING, WHEEL WASH WATER, AND OTHER WASH WATERS;
 - MINIMIZE THE EXPOSURE OF BUILDING MATERIALS, BUILDING PRODUCTS, CONSTRUCTION WASTES, TRASH, LANDSCAPE MATERIALS, FERTILIZERS, PESTICIDES, HERBICIDES, DETERGENTS, SANITARY WASTE, AND OTHER MATERIALS PRESENT ON-SITE TO PRECIPITATION AND TO STORMWATER;
 - MINIMIZE THE DISCHARGE OF POLLUTANTS FROM SPILLS AND LEAKS AND IMPLEMENT CHEMICAL SPILL AND LEAK PREVENTION AND RESPONSE PROCEDURES;
 - PROHIBIT THE DISCHARGE OF WASTEWATER FROM THE WASHOUT OF CONCRETE;
 - PROHIBIT THE DISCHARGE OF WASTEWATER FROM THE WASHOUT AND CLEANOUT OF STUCCO, PAINT, FORM RELEASE OILS, CURING COMPOUNDS, AND OTHER CONSTRUCTION MATERIALS; AND
 - PROHIBIT THE DISCHARGE OF FUELS, OILS, OR OTHER POLLUTANTS USED IN VEHICLE AND EQUIPMENT OPERATION AND MAINTENANCE.

SEQUENCE OF CONSTRUCTION

- INSTALL INLET PROTECTION AT EXISTING STORM DRAIN INLETS AS NECESSARY.
- CONDUCT DEMOLITION AND CONSTRUCTION ACTIVITIES ACCORDING TO THE APPLICABLE PLANS.
- AS CONTRIBUTORY DRAINAGE AREAS ARE STABILIZED AND WITH THE PERMISSION OF THE EROSION AND SEDIMENT CONTROL INSPECTOR, REMOVE INDIVIDUAL EROSION AND SEDIMENT CONTROL PRACTICES.
- INSTALL ADDITIONAL EROSION AND SEDIMENT CONTROL PRACTICES AS NECESSARY AND AS DIRECTED BY THE EROSION AND SEDIMENT CONTROL INSPECTOR.
- UPON COMPLETION OF DEMOLITION, CONSTRUCTION AND LAND DISTURBING ACTIVITIES AND WITH THE APPROVAL OF THE EROSION AND SEDIMENT CONTROL INSPECTOR, REMOVE ALL REMAINING EROSION AND SEDIMENT CONTROL PRACTICES AND PROVIDE PERMANENT STABILIZATION ACCORDING TO APPROVED METHODS.
- CONSTRUCTION DEBRIS MUST BE REMOVED TO AN APPROVED LANDFILL WITH ADEQUATE FREQUENCY IN ACCORDANCE WITH THE VIRGINIA STATE LITTER CONTROL ACT.



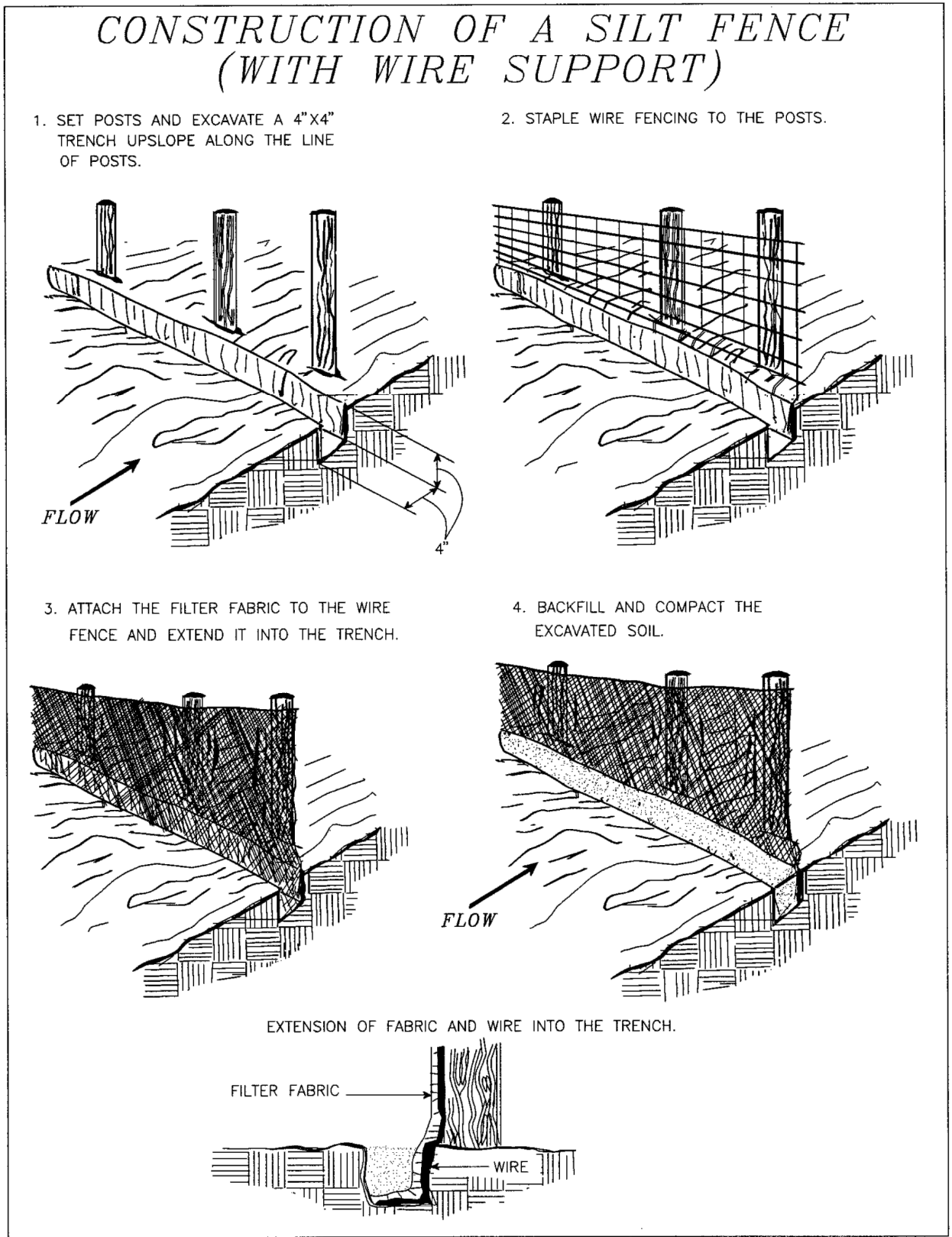
INLET PROTECTION

DETAIL 1/C-232

SCALE: NOT TO SCALE

1992

3.05



Source: Adapted from Installation of Straw and Fabric Filter Barriers for Sediment Control, Sherwood and Wyant

Plate 3.05-1

III - 24

SILT FENCE PROTECTION

DETAIL 2/C-232

SCALE: NOT TO SCALE

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CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22314

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CONSULTANT PROJECT ID.:	
DESIGNED BY: PEE DATE:	
DRAWN BY: TSM DATE:	
CHECKED BY: AJM DATE:	
APPROVED BY: DATE:	



EROSION AND SEDIMENT
CONTROL NOTES
AND DETAILS

C-232

SHEET
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SCALE AS SHOWN

DEL RAY EAST LATERAL REHABILITATION DESIGN