

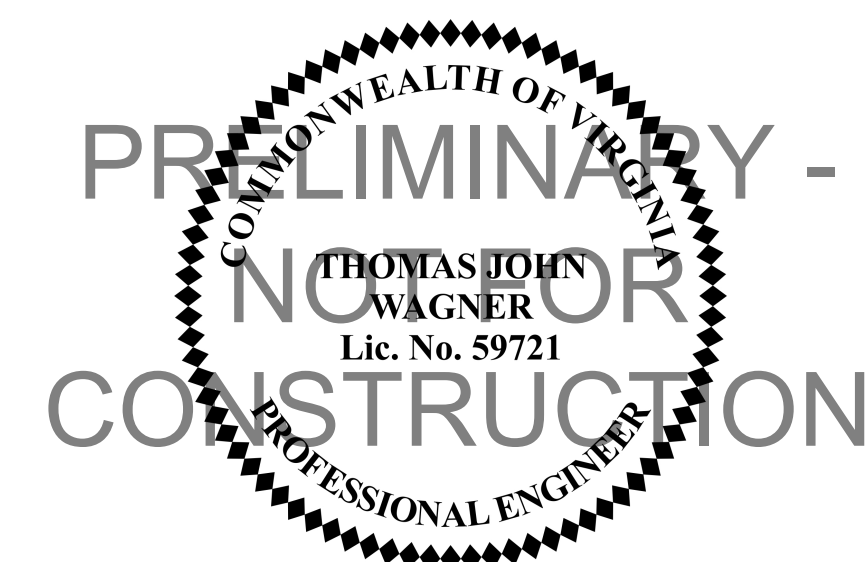
WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY



POTOMAC YARD METRORAIL STATION CITY OF ALEXANDRIA, VA

CONTRACT FQ16146

PRELIMINARY DSUP - #2018-0017



Issue	Date	By	Chkd	Appd
	11/19/2018	JS	JD	TW

Client
WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

Key Plan

Job Title
POTOMAC YARD METRORAIL STATION

Drawing Title
COVER SHEET

ARUP
77 Water Street
New York, NY 10005
T +1 212 896 3000
www.arup.com

Scale NTS

File Name

Drawing Status
PRELIMINARY DSUP

Job No 254922	Drawing No COVER	Issue
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ZONING TABULATIONS

PROPOSED PARCEL	PARCEL A-1A*	PARCEL 612 B1*
PROPOSED ZONING OF SITE	UT, CDD#10, 19	UT, CDD#10, 19
EXISTING USES OF SITE	PARK/WETLANDS/RAIL CORRIDOR/TRACTION POWER SUBSTATION	POTOMAC YARD PARK
PROPOSED USE	STATION PROPER/PED BRIDGE/AC BUILDING/TRACTION POWER SUBSTATION	PEDESTRIAN BRIDGE/ENTRY PAVILION
LOT AREA MINIMUM REQUIRED BY ZONING	N/A	N/A
LOT AREA	6.15631 AC	0.8327 AC
NUMBER OF DWELLING UNITS	N/A	N/A
UNITS/ACRE	N/A	N/A
DENSITY	N/A	N/A
GROSS SF OF BUILDINGS	62182.00	21894.00
STATION	46922.00	N/A
AC BUILDING SF	2752.00	N/A
SOUTH PED BRIDGE/RAMP SF	6606.00	5650.00
SOUTH ENTRY PAVILLION SF	N/A	6194.00
NORTH PED BRIDGE SF	1415.00	N/A
NORTH PAVILION	N/A	10050.00
EXISTING TRACTION POWER SUBSTATION	4487.00	N/A
NET SF OF BUILDINGS	56190.00	18848.00
STATION	40930.00	N/A
AC BUILDING SF	2752.00	N/A
SOUTH PED BRIDGE/RAMP SF	6606.00	5650.00
SOUTH ENTRY PAVILLION SF	N/A	5423.00
NORTH PED BRIDGE SF	1415.00	N/A
NORTH PAVILION	N/A	7775.00
EXISTING TRACTION POWER SUBSTATION	4487.00	N/A
FAR EXISTING	0.02	0.00
FAR PROPOSED	0.39	0.31
OPEN SPACE REQUIRED	0.21	0.52
AVERAGE FINISH GRADE - STATION	18.75	N/A
AVERAGE FINISH GRADE - AC ROOM	29.00	N/A
BUILDING HEIGHT - STATION	50.00'	N/A
BUILDING HEIGHT - AC ROOM	26.20	N/A
BUILDING HEIGHT - ENTRY PAVILION	N/A	35.50
BUILDING SETBACKS REQUIRED	N/A	N/A
FRONTAGE REQUIRED	N/A	N/A
PARKING SPACES REQUIRED	N/A	N/A
PARKING SPACES PROPOSED	N/A	N/A
LOADING SPACES REQUIRED AND PROPOSED	N/A	N/A
TRIP GENERATION METHOD	N/A	N/A

* SEE PRELIMINARY SUBDIVISION PLAT 05/04/16 FOR IDENTIFICATION OF PROPOSED PARCELS

AREA TABULATIONS

AREA TABULATIONS	EXISTING	PROPOSED
EXISTING IMPERVIOUS	2.83 AC	
PROPOSED IMPERVIOUS	3.81 AC	
LIMITS OF DISTURBANCE	13.00 AC	

RPA DESCRIPTION	EXISTING	PROPOSED
WITHIN RPA	1.92 AC	1.92 AC
WITHIN RPA+50'	3.73 AC	3.73 AC
WITHIN RPA+100'	5.45 AC	5.45 AC
IMPERVIOUS WITHIN RPA	0.05 AC	1.35 AC
IMPERVIOUS WITHIN RPA+50'	0.45 AC	2.63 AC
IMPERVIOUS WITHIN RPA+100'	1.28 AC	3.57 AC
PERVIOUS WITHIN RPA	1.87 AC	0.57 AC
PERVIOUS WITHIN RPA+50'	3.28 AC	1.1 AC
PERVIOUS WITHIN RPA+100'	4.17 AC	1.88 AC

OWNER

CITY OF ALEXANDRIA
301 KING STREET
ALEXANDRIA VA 22314

DEVELOPMENT PRELIMINARY SITE PLAN

POTOMAC YARD METRORAIL STATION

CITY OF ALEXANDRIA, VIRGINIA

PRELIMINARY DSUP #2018-0017

SITE PLANS

1. THE PROJECT IS NOT LOCATED IN A COMBINED SEWER AREA.
2. SEE DRAWING NO. C-05 THROUGH C-09 FOR BMP AND STORM WATER MANAGEMENT REQUIREMENTS AND MITIGATION
3. SOIL AND/OR GROUNDWATER CONTAMINATION: SEE THE POTOMAC YARD METRORAIL STATION DRAFT ENVIRONMENTAL IMPACT STATEMENT (DEIS) DATED APRIL, 2015.
4. THE PROJECT WILL NOT EXCEED 10,000 GPD OF SANITARY FLOWS.

SANITARY FLOW ANALYSIS

Part of building any new occupiable structure that connects to the City of Alexandria sanitary sewer is determination of the sewage generated by the building and its occupants so the City can determine if the sanitary sewer system will be over-burdened by the new demands. The City of Alexandria has issued Memorandum to Industry No. 06-14 that describes the necessary calculation methodology for standard building types in order to determine the average daily design flow. Using the guidance the City of Alexandria, the flow analysis is based on the Virginia Administrative Code 9VAC-25-790-460, Table 3 for Interstate Rest Area as a comparable building type, and is as follows:

Discharge facility ⁽¹⁾	Contributing Design Units	Flow gpd	BOD ₅ #day ⁽²⁾	S.S. #day	Flow duration, hours
Interstate rest areas	Per person	5	0.01	0.01	24

To determine the number of persons who are anticipated to use the facilities, the prime contributor to the sewage generation of the Station, the assumption on frequency of usage applied:

The annual station ridership has been approximated as 5,000 riders per day for opening year 2020. The future anticipated ridership in 2040 is anticipated to be 13,200 riders per day. Of these riders, it is assumed that only 5% will use the toilet room facilities because historically, the public refrains from using toilet facilities in such high-volume public spaces. Therefore:

$$13,200 \text{ persons per day} \times 5\% = 660 \text{ persons per day}$$

$$660 \text{ persons per day} \times 5 \text{ gallons per day} = 3,300 \text{ gallons per day (GPD)}$$

WMATA LOW DISTORTION PROJECTION SYSTEM

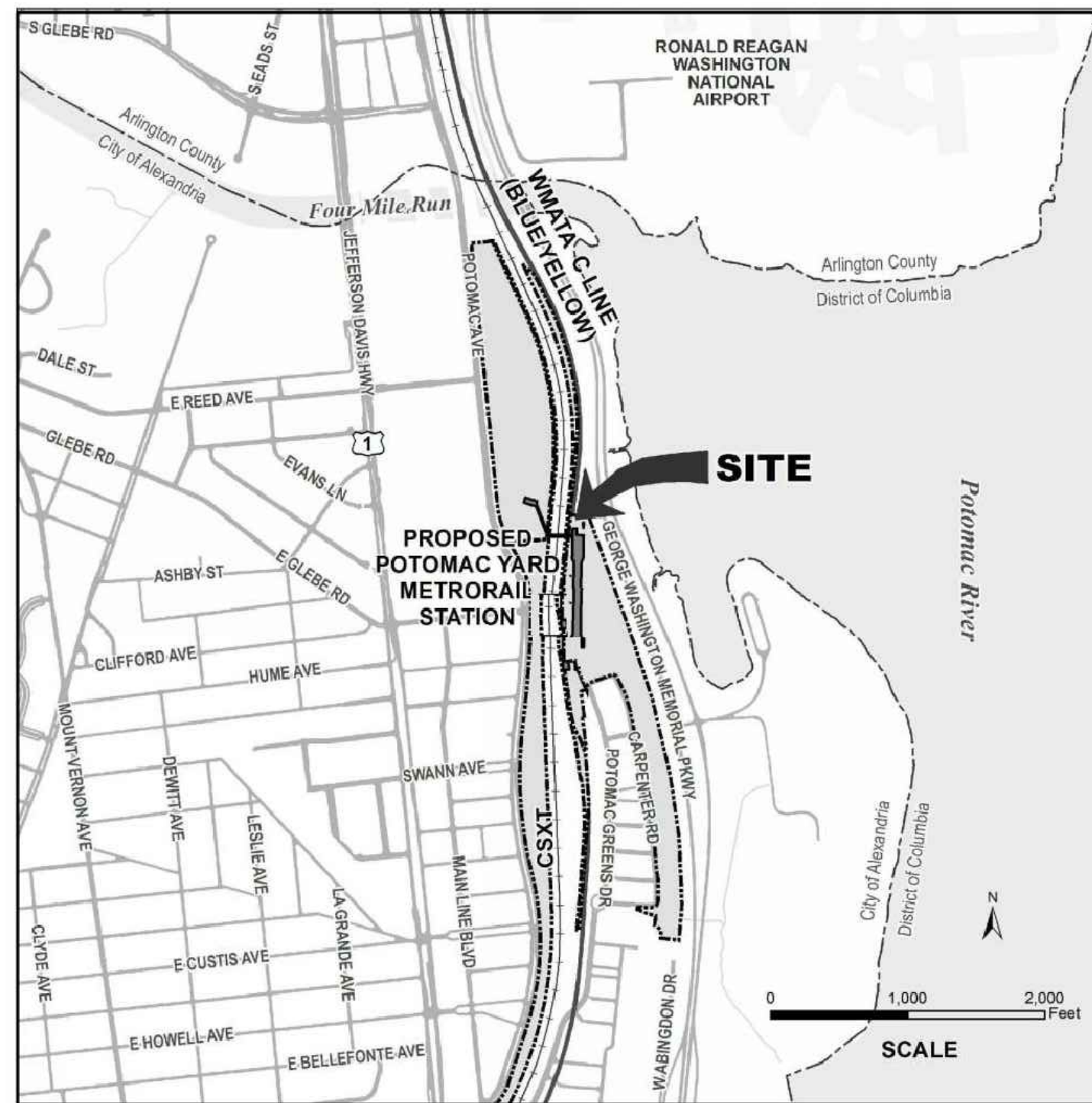
Washington Metropolitan Area Transit Authority (WMATA) Low Distortion Projection (LDP) Coordinate System Definition
The WMATA Coordinate System was designed such that linear distortion is minimized throughout the existing and proposed WMATA service area. The magnitude of linear distortion does not exceed 20 parts per million (0.1 foot per mile) along WMATA rail lines at the topographic surface of the Earth or in tunnels. Therefore actual "ground" distances measured between points will equal grid "maps" distances between the same points to within ±0.1 foot per mile everywhere within the WMATA system. The approximate WMATA system hub was used for the WMATA Coordinate System central meridian. Although this essentially minimizes convergence angles for the existing WMATA system, it does not minimize convergence angles for proposed additions to the system.

Linear unit: U.S. survey foot (sft)
Note: 1 sft = 1200 / 3937 meter ≈ 0.304 800 609 601 219 202 438 meter
1 sft = 1.000 002 international feet
Geometric reference system (geodetic datum): North American Datum of 1983 (NAD 83)
Datum realization (datum tag): NAD 83 (2011) epoch 2010.00 realization of the US National Spatial Reference System (NSRS)
Map projection: Lambert Conformal Conic (single parallel)

Projection parameters (single parallel definition):
Standard parallel (latitude of grid origin): 38° 50' 00.000000" N (= +38.833 333 333 333 333...")
Longitude of central meridian: 77° 02' 00.000000" W (= -77.033 333 333 333 333...")
False northing (at grid origin): 150,000,000 sft (= 45,720,091 440 182 880 ... m)
False easting (at central meridian): 200,000,000 sft (= 60,960,121 920 243 840 ... m)
Standard parallel scale factor: 1.000 000 000 (exact)
Projection parameters (alternate generic double parallel definition):
Latitude of north standard parallel: 38° 50' 00.000000" N (= +38.833 333 333 333 333...")
Latitude of south standard parallel: 38° 50' 00.000000" N (= +38.833 333 333 333 333...")
Latitude of grid origin: 38° 50' 00.000000" N (= +38.833 333 333 333 333...")
Longitude of central meridian: 77° 02' 00.000000" W (= -77.033 333 333 333 333...")
False northing (at grid origin): 150,000,000 sft (= 45,720,091 440 182 880 ... m)
False easting (at central meridian): 200,000,000 sft (= 60,960,121 920 243 840 ... m)
Additional scale applied at grid origin: 1.000 000 000 (exact)

Note: The alternate "double parallel" definition is used in some software packages, such as ESRI products, rather than the single parallel definition. Both definitions yield identical results.

VICINITY MAP



REQUIRED APPLICATIONS

1. DEVELOPMENT SPECIAL USE PERMIT
2. REZONING TO UT - UTILITIES AND TRANSPORTATION ZONE
3. SPECIAL USE PERMIT - BUILDING HEIGHT UP TO 50 FEET
4. SPECIAL USE PERMIT - FAR UP TO 0.50
5. MASTER PLAN AMENDMENT

FLOODPLAIN NOTES

1. THE SITE LIES WITHIN 100-YEAR FLOOD PLAIN WATER SURFACE ELEVATION (WSE) AND THE 100-YEAR FLOOD PLAIN WSE IS SHOWN ON THE SITE PLAN PER THE DEMARCATION OF THE CURRENT FLOOD INSURANCE RATE MAP (FIRM) PUBLISHED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA).
2. THE PLANS WILL COMPLY WITH THE CONDITIONS OF SITE PLAN APPROVAL.

RPA NOTES

1. THE SUBJECT PROPERTY LIES WITHIN A CITY OF ALEXANDRIA RESOURCE PROTECTION AREA (RPA), FIELD DEMARCATED/VERIFIED 50 FEET AND 100 FEET RESOURCE PROTECTION LINES ARE SHOWN ON THE SITE PLAN.
2. SEE AREA CALCULATIONS AND STORMWATER CALCULATIONS FOR FURTHER DETAIL.

DESIGN GUIDELINES

1. THE PROPOSED PROJECT IS LOCATED WITHIN THE OLD AND HISTORIC ALEXANDRIA DISTRICT AND THE ALEXANDRIA HISTORIC DISTRICT DESIGN GUIDELINES APPLY.
2. THE PROPOSED PROJECT IS LOCATED WITHIN THE POTOMAC YARD/POTOMAC GREENS SMALL AREA, THE POTOMAC YARD URBAN DESIGN GUIDELINES APPLY.

SOIL INFORMATION

GEOTECHNICAL INFORMATION PROVIDED IN THE BORING LOGS OF THE ORIGINAL CONSTRUCTION OF THE BLUE/YELLOW LINE, PERFORMED IN 1977, DO NOT DETECT OR MAKE REFERENCE TO MARINE CLAYS. ADDITIONALLY, THE MARINE CLAY AREAS MAP PREPARED BY THE DEPARTMENT OF TRANSPORTATION AND ENVIRONMENTAL SERVICES FOR THE CITY OF ALEXANDRIA, 1976, DO NOT DETECT OR MAKE REFERENCE TO MARINE CLAYS IN THE IMMEDIATE AREA AFFECTED BY CONSTRUCTION OF THE POTOMAC YARD STATION.

EXISTING CONDITIONS PLAN NOTES

1. THE PROJECT IS LOCATED IN AN AREA OF KNOWN CONTAMINATION. AS SUCH, REQUISITE ENVIRONMENTAL INVESTIGATIONS AND REPORTS BE REQUIRED NO LATER THAN DURING THE FINAL SITE PLAN, WHICH INCLUDES BUT NOT LIMITED TO, SUBSURFACE SITE INVESTIGATION (PHASE II), SOIL REMEDIATION PLAN, HEALTH AND SAFETY PLAN, AND THE DESIGN AND INSTALLATION OF A VAPOR BARRIER. INITIAL AIR MONITORING WILL BE REQUIRED, AND CONTINUATION DURING CONSTRUCTION WILL BE CONTINGENT UPON MONITORING DATA.
2. SOILS INFORMATION: GEOTECHNICAL INFORMATION PROVIDED IN THE BORING LOGS OF THE ORIGINAL CONSTRUCTION OF THE BLUE/YELLOW LINE, PERFORMED IN 1977, DO NOT DETECT OR MAKE REFERENCE TO MARINE CLAYS. ADDITIONALLY, THE MARINE CLAY AREAS MAP PREPARED BY THE DEPARTMENT OF TRANSPORTATION AND ENVIRONMENTAL SERVICES FOR THE CITY OF ALEXANDRIA, 1976, DO NOT DETECT OR MAKE REFERENCE TO MARINE CLAYS IN THE IMMEDIATE AREA AFFECTED BY CONSTRUCTION OF THE POTOMAC YARD STATION.
3. THE NORTH MERIDIAN AND HORIZONTAL CONTROL ARE BASED ON THE WMATA 2009 LOW DISTORTION PROJECTION SYSTEM. VERTICAL DATUM IS NAVD 88.

SHEET INDEX

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G-01A	2 of 37	STANDARD NOTES
G-01B	3 of 37	STANDARD NOTES
G-02	4 of 37	OVERALL PARCEL PLAN
EX-01	5 of 37	EXISTING CONDITIONS PLAN 1 OF 4
EX-02	6 of 37	EXISTING CONDITIONS PLAN 2 OF 4
EX-03	7 of 37	EXISTING CONDITIONS PLAN 3 OF 4
EX-03A	8 of 37	EXISTING CONDITIONS AND CONST. ACCESS PLAN 4 OF 4
EX-04	9 of 37	TREE SURVEY
EX-05	10 of 37	TREE SURVEY LEGEND
SD-01	11 of 37	PRELIMINARY SUBDIVISION PLAT 1 OF 4
SD-02	12 of 37	PRELIMINARY SUBDIVISION PLAT 2 OF 4
SD-03	13 of 37	PRELIMINARY SUBDIVISION PLAT 3 OF 4
SD-04	14 of 37	PRELIMINARY SUBDIVISION PLAT 4 OF 4
C-01	15 of 37	SITE PLAN 1 OF 3
C-02	16 of 37	SITE PLAN 2 OF 3
C-03	17 of 37	SITE PLAN 3 OF 3
C-04	18 of 37	STORMWATER MANAGEMENT PLAN
C-04A	19 of 37	STORMWATER MANAGEMENT DETAILS
C-05	20 of 37	EXISTING DRAINAGE PLAN
C-06	21 of 37	PROPOSED DRAINAGE AREA PLAN
C-06A	22 of 37	PROPOSED BMP PLAN
C-07	23 of 37	STORMWATER MANAGEMENT CALCULATIONS 1 OF 2
C-08	24 of 37	STORMWATER MANAGEMENT CALCULATIONS 2 OF 2
C-09	25 of 37	SITE CROSS SECTIONS
C-10	26 of 37	WETLANDS RESTORATION PLAN
A-01	27 of 37	MEZZANINE LEVEL FAR CALCULATION
A-02	28 of 37	PLATFORM LEVEL FAR DIAGRAM
A-03	29 of 37	STATION FLOOR PLANS
A-04	30 of 37	ENTRANCE PAVILION
A-05	31 of 37	BUILDING ELEVATIONS
A-06	32 of 37	BUILDING ELEVATIONS AND SECTIONS
A-06A	33 of 37	ENTRANCE PAVILION ELEVATIONS
A-06B	34 of 37	GLEBE PAVILION
A-07	35 of 37	OVERHEAD PERSPECTIVE
A-08	36 of 37	ILLUSTRATIVE PLAN
A-09	37 of 37	ILLUSTRATIVE VIEWS

COMPLETE STREETS TABULATION

	NEW	UPGRADE
Crosswalks (number)	-	-
Standard	-	-
High Visibility	-	-
Curb Ramps	-	-
Sidewalks (LF)	-	-
Bicycle Parking (number spaces)	-	-
Public/Visitor	-	-
Private/Garage	-	-
Bicycle Paths (LF)	-	-
Pedestrian Signals	-	-

CO-APPLICANT

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY (WMATA)
600 FIFTH STREET N.W.
WASHINGTON DC, 20001

CONSULTANT/ARCHITECT TO WMATA

DB Final Design:
Leuterio Thomas, LLC
6710 Oxon Hill Road, Suite 310
National Harbor, MD 20745

DB Bridging Documents:
KGP DESIGN STUDIO 1777
CHURCH ST NW
WASHINGTON DC 20036

APPLICANT

CITY OF ALEXANDRIA
301 KING STREET
ALEXANDRIA VA 22314

CONSULTANT/ENGINEER TO WMATA

DB Final Design:
ARUP
77 Water Street
New York, NY 10005

DB Bridging Documents:
AECOM
2101 WILSON BLVD
ARLINGTON VA 22201

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DIRECTOR DATE _____

DEPARTMENT OF TRANSPORTATION & ENVIRONMENTAL SERVICES
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DIRECTOR DATE _____

CHAIRMAN, PLANNING COMMISSION DATE _____

DATE RECORDED _____

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Client: WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

Job Title: POTOMAC YARD METRORAIL STATION

Key Plan: _____

Drawing Title: COVER SHEET

SHEET 1 OF 38

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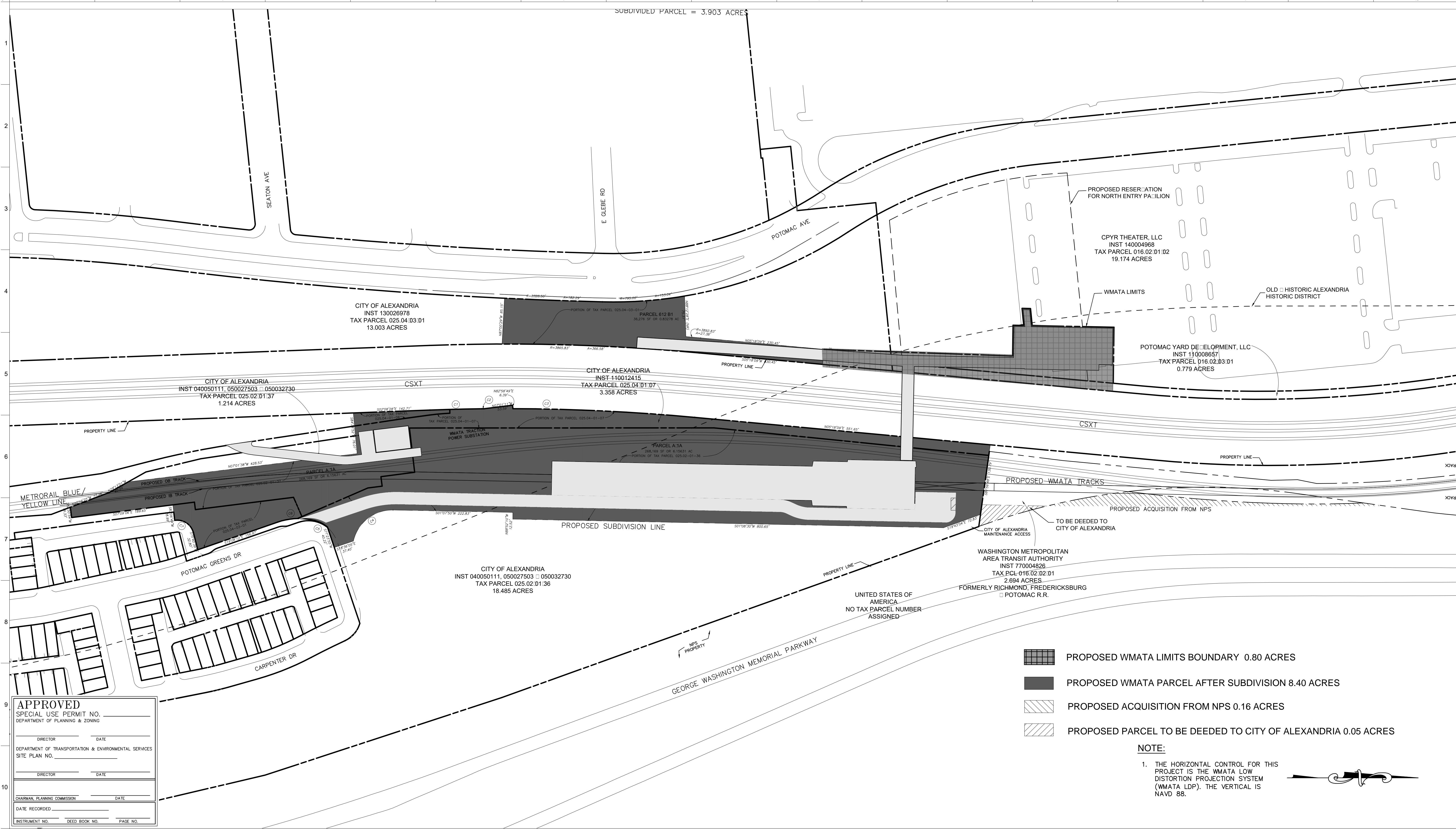
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File Name: _____

Drawing Status: **PRELIMINARY DSUP**

Job No: 254922 Drawing No: G-01 Issue: A

11/19/2018 JS JD TW
Issue Date By Chkd Appd



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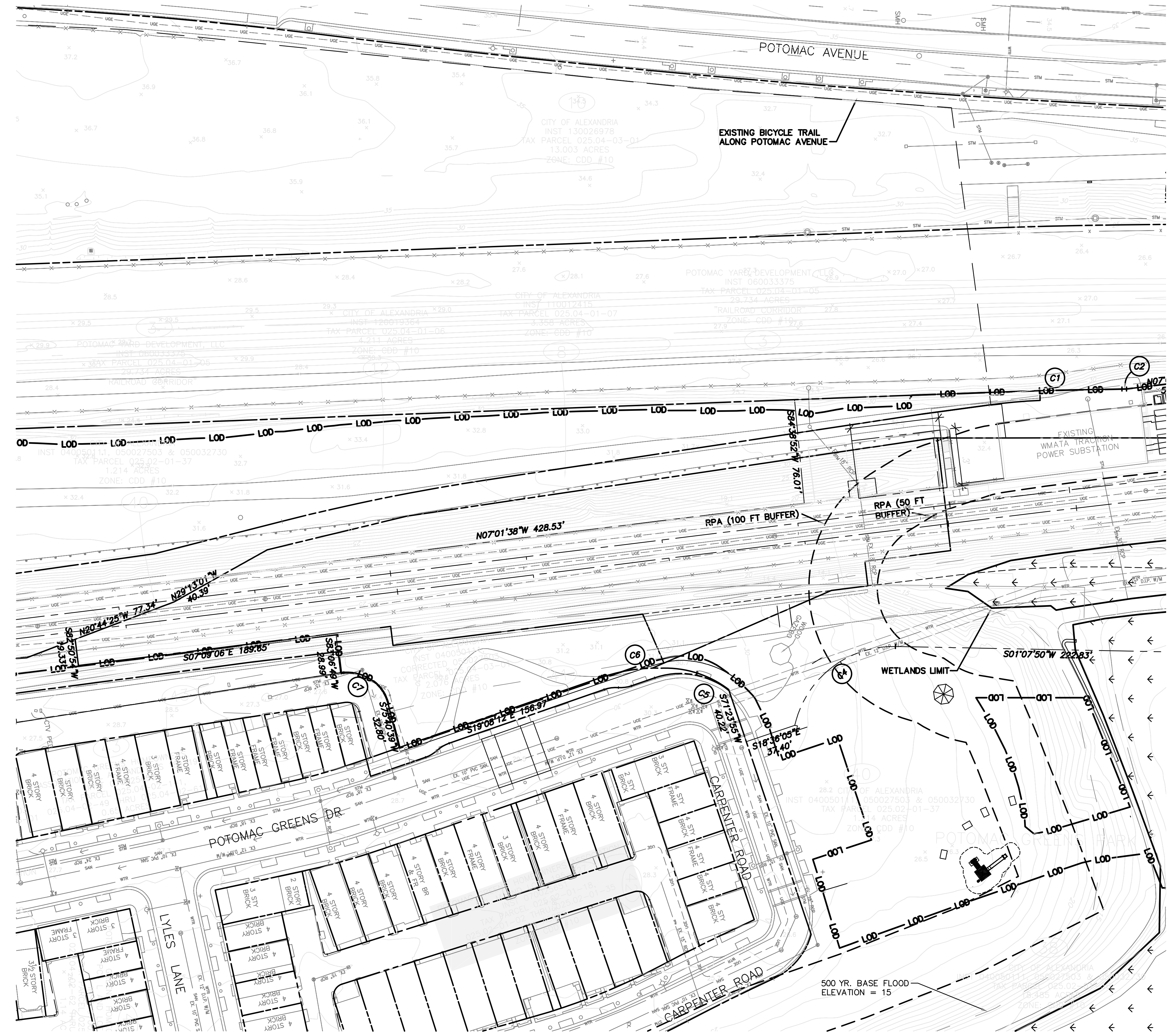
- PROPOSED WMATA LIMITS BOUNDARY 0.80 ACRES
- PROPOSED WMATA PARCEL AFTER SUBDIVISION 8.40 ACRES
- PROPOSED ACQUISITION FROM NPS 0.16 ACRES
- PROPOSED PARCEL TO BE DEEDED TO CITY OF ALEXANDRIA 0.05 ACRES

NOTE:

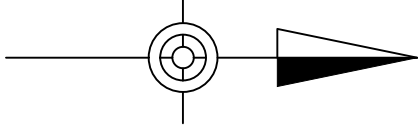
- THE HORIZONTAL CONTROL FOR THIS PROJECT IS THE WMATA LOW DISTORTION PROJECTION SYSTEM (WMATA LDP). THE VERTICAL IS NAVD 88.



Client WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY	Job Title POTOMAC YARD METRORAIL STATION	77 Water Street New York, NY 10005 T +1 212 896 3000 www.arup.com Scale 1"=80'	Drawing Title DEVELOPMENT PRELIMINARY SITE PLAN OVERALL PARCEL PLAN
Key Plan _____	Drawing Status AMENDED DSUP	SHEET 4 OF 37	
Issue Date By Chkd Appd	Job No 254992	Drawing No G-02	Issue



NOTE:
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Client
WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

Job Title
POTOMAC YARD METRORAIL STATION

Key Plan

Drawing Title
EXISTING CONDITIONS
 1 OF 3
SHEET 5 OF 37

11/19/2018	JS	JD	TW
Issue	Date	By	Chkd
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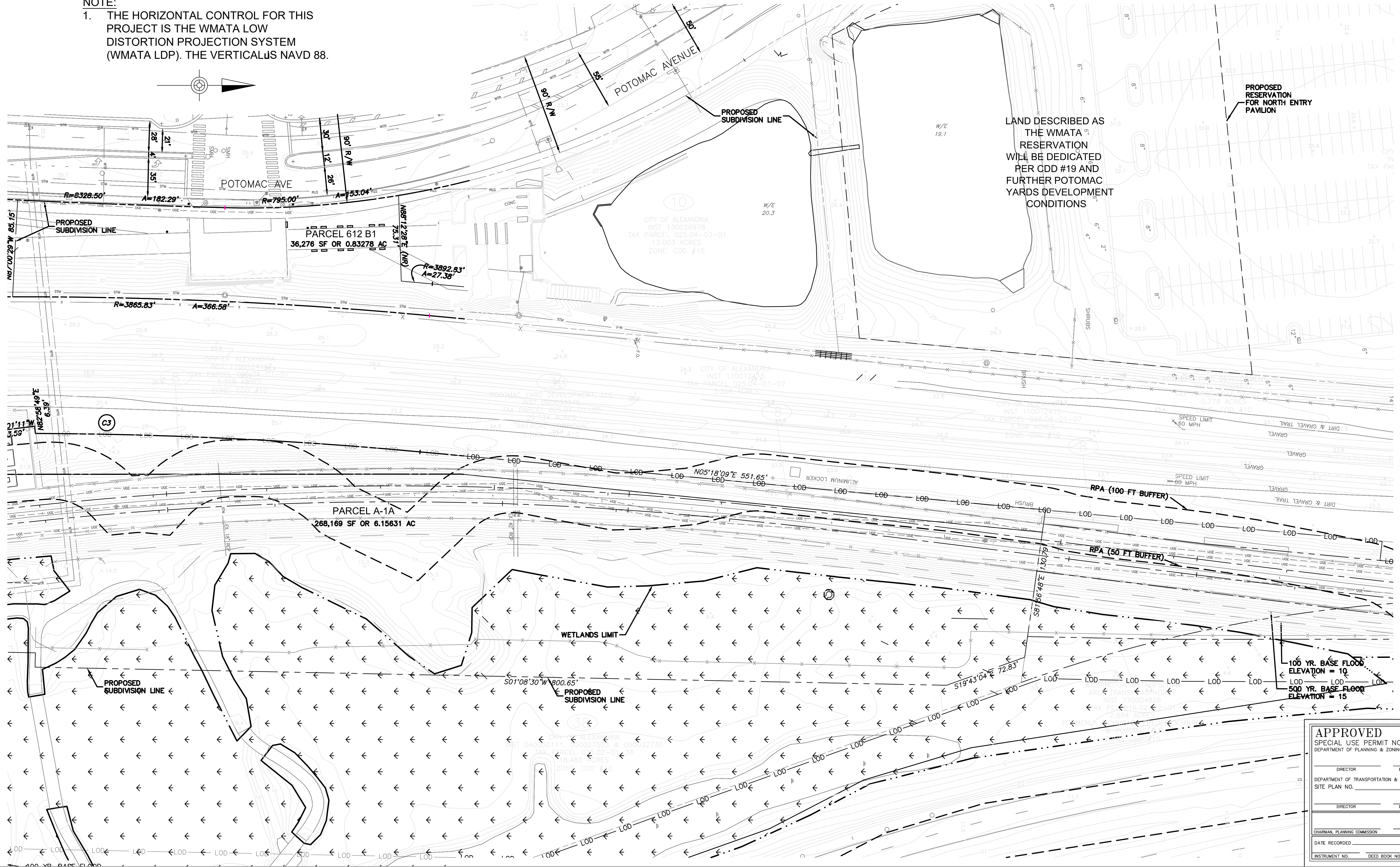
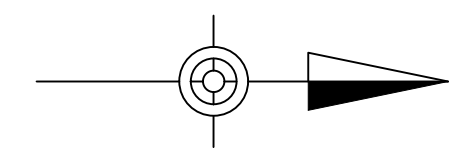
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File Name _____
 Drawing Status
PRELIMINARY DSUP

Job No **254922** Drawing No **EX-01** Issue _____

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LAND DESCRIBED AS THE WMATA RESERVATION WILL BE DEDICATED PER CDD #19 AND FURTHER POTOMAC YARDS DEVELOPMENT CONDITIONS

PROPOSED RESERVATION FOR NORTH ENTRY PAVILION

100 YR. BASE FLOOD ELEVATION = 10
 500 YR. BASE FLOOR ELEVATION = 15

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DEPARTMENT OF TRANSPORTATION & ENVIRONMENTAL SERVICES	
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Client
 WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

Job Title
 POTOMAC YARD METRORAIL STATION

Key Plan

Drawing Title
 EXISTING CONDITIONS
 2 OF 3
 SHEET 6 OF 37

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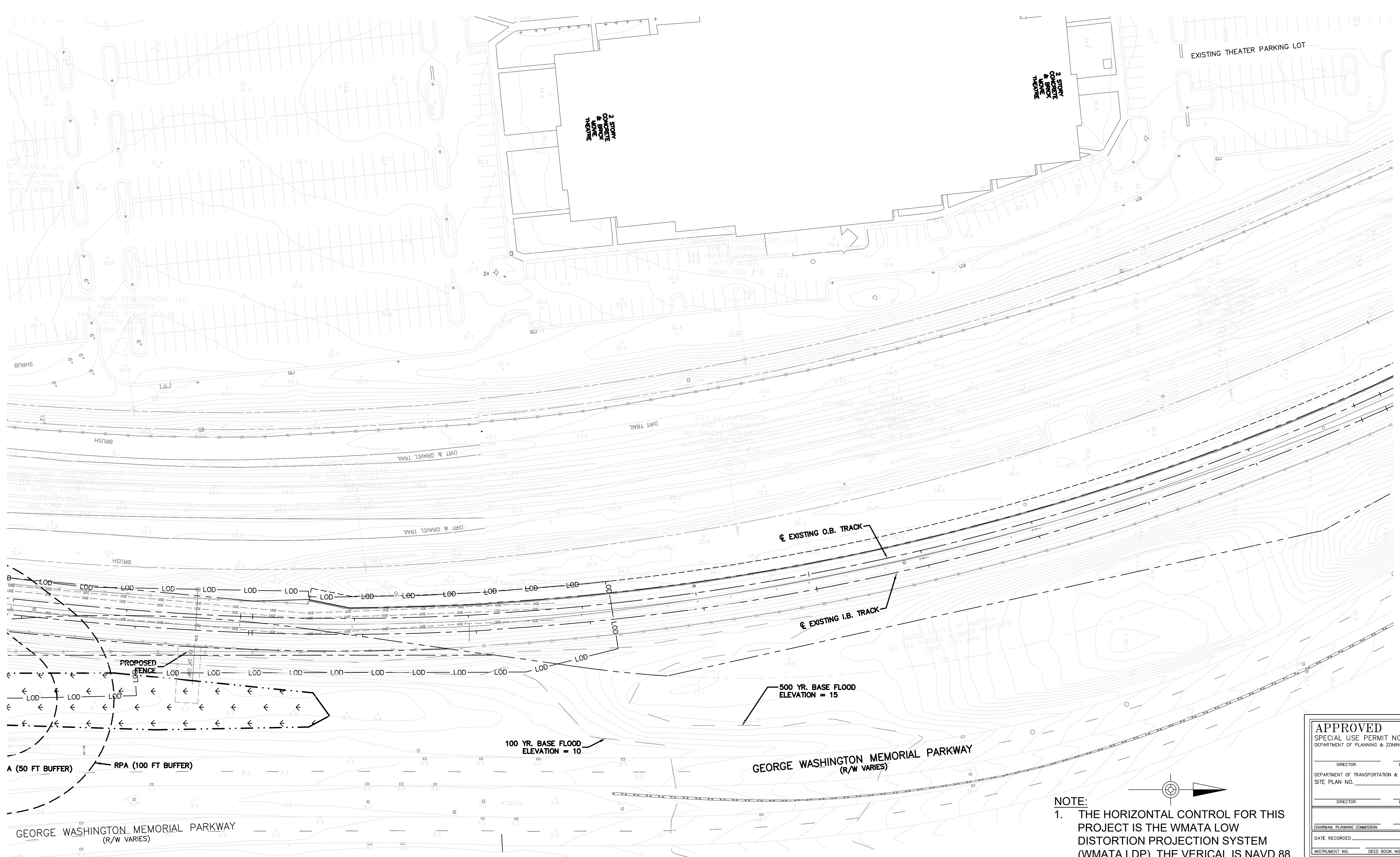
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Job No **254922** Drawing No **EX-02** Issue _____

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Client
WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

Job Title
POTOMAC YARD METRORAIL STATION

Key Plan

Drawing Title
**EXISTING CONDITIONS
3 OF 3
SHEET 7 OF 37**

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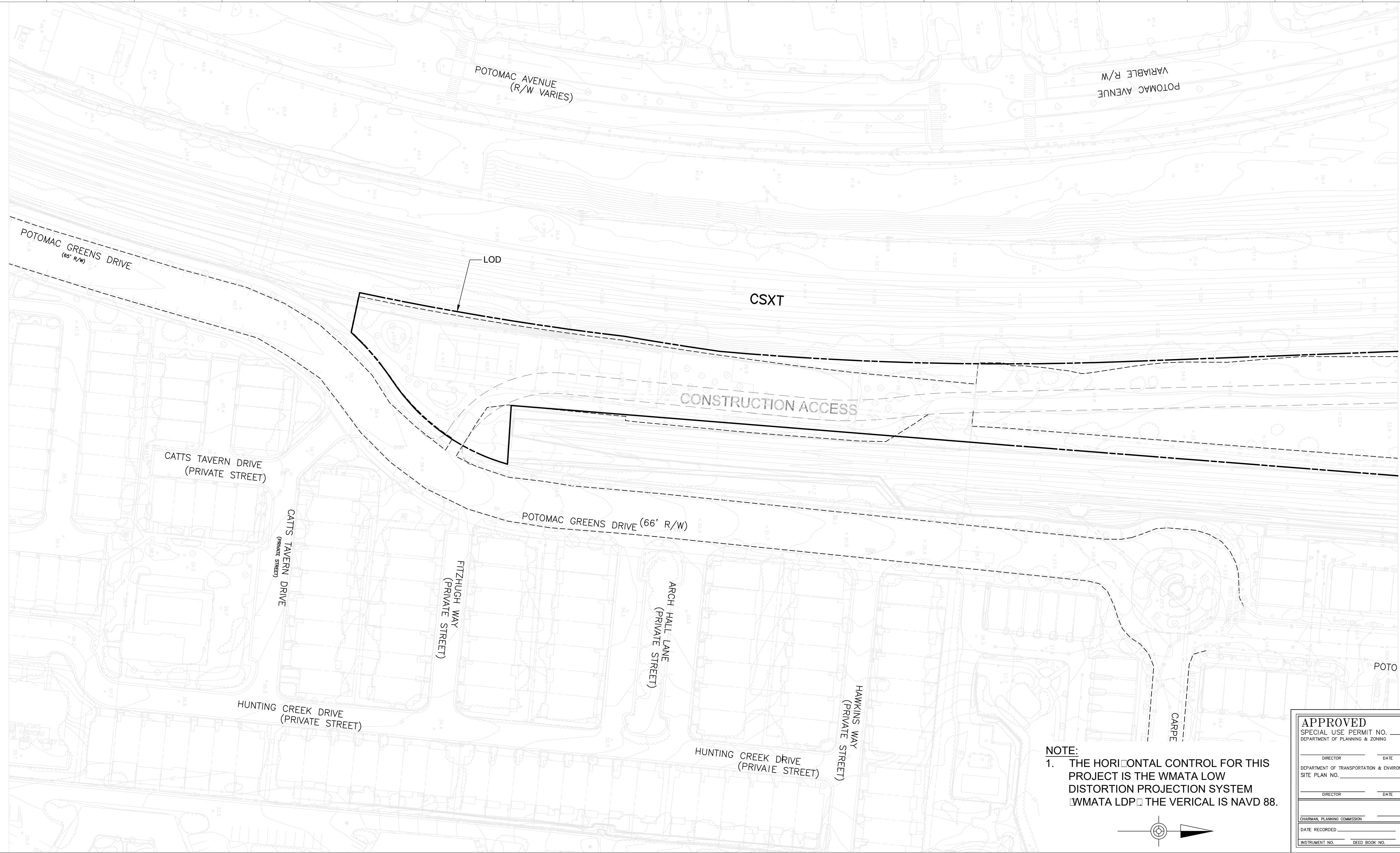
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Drawing Status

PRELIMINARY DSUP

Job No **254922** Drawing No **EX-03** Issue

Issue	Date	By	Chkd	Appd
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CHAIRMAN, PLANNING COMMISSION _____	
DATE RECORDED _____	
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Client
 WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

Job Title
 POTOMAC YARD METRORAIL STATION

Key Plan

Drawing Title
 EXISTING CONDITIONS AND CONST. ACCESS PLAN 4 OF 4
 SHEET 8 OF 37

11/19/2018	JS	JD	TW
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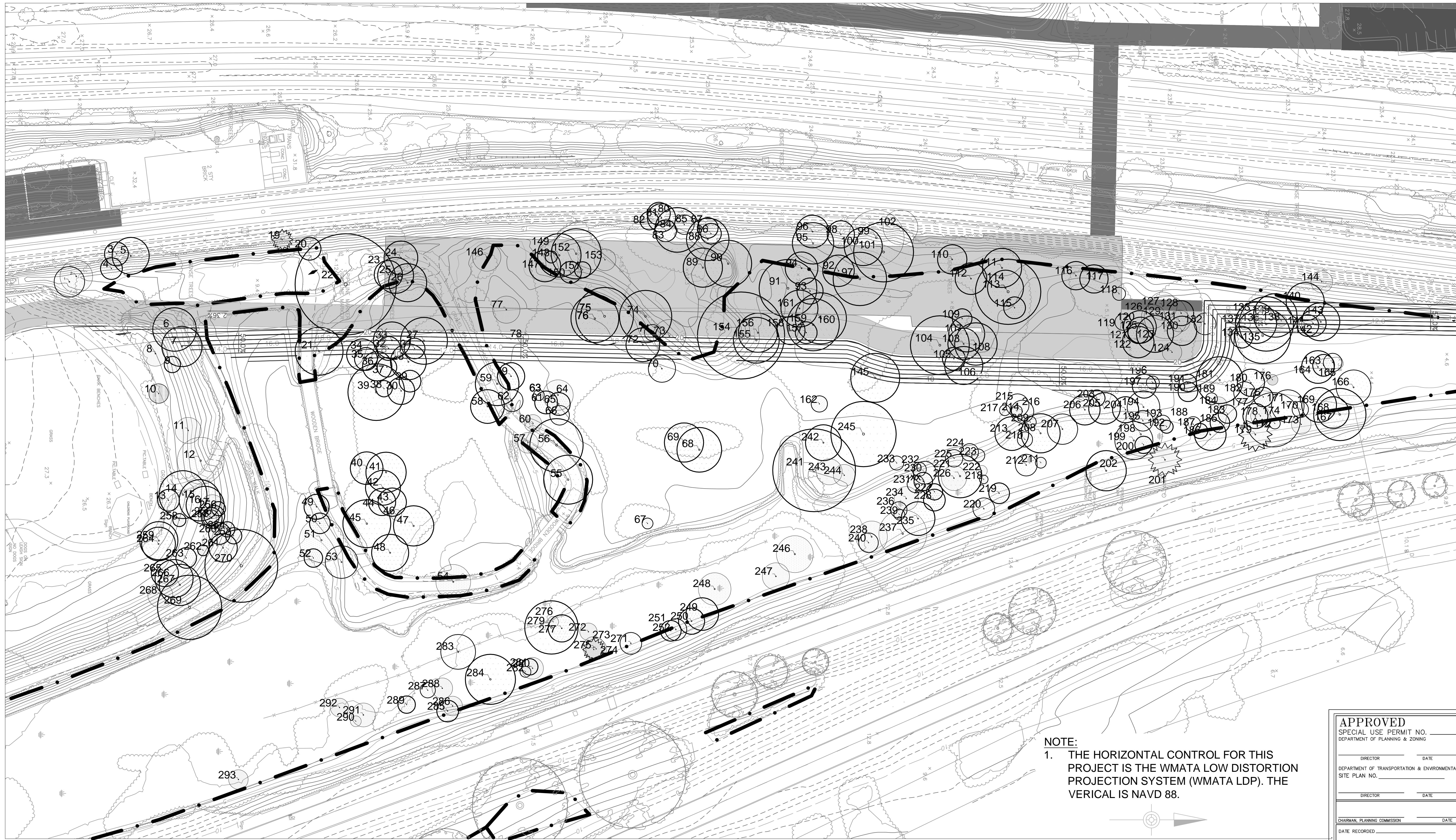
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Drawing Status _____

PRELIMINARY DSUP

Job No
254922

Drawing No
EX-03A



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CHAIRMAN, PLANNING COMMISSION _____	
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INSTRUMENT NO. _____	DEED BOOK NO. _____ PAGE NO. _____



Client
 WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

Job Title
 POTOMAC YARD METRO RAIL STATION

Key Plan

Drawing Title
 TREE SURVEY

Issue	Date	By	Chkd	Appd
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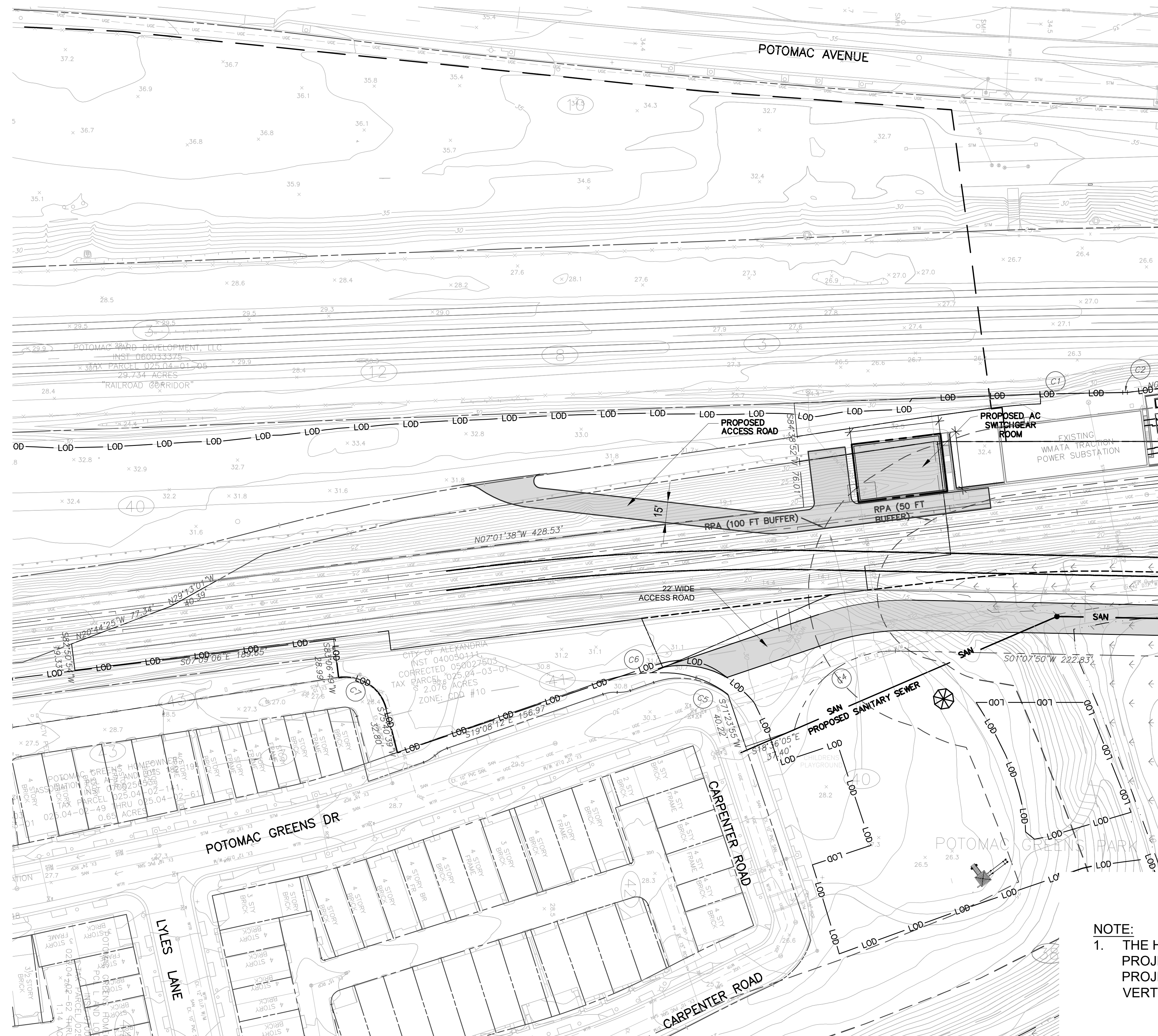
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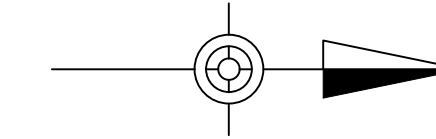
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Drawing Status
PRELIMINARY DSUP

Job No 254922	Drawing No EX-04	Issue
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SITE PLAN NO. _____	
DIRECTOR _____	DATE _____
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DATE RECORDED _____	
INSTRUMENT NO. _____	DEED BOOK NO. _____ PAGE NO. _____



Client
 WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

Job Title
 POTOMAC YARD METRO RAIL STATION

Key Plan

Drawing Title
 DEVELOPMENT PRELIMINARY SITE PLAN 1 OF 3
 SHEET 15 OF 37

Issue	Date	By	Chkd	Appd
	11/19/2018	JS	JD	TW

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Scale 1"=40'

File Name

Drawing Status

PRELIMINARY DSUP

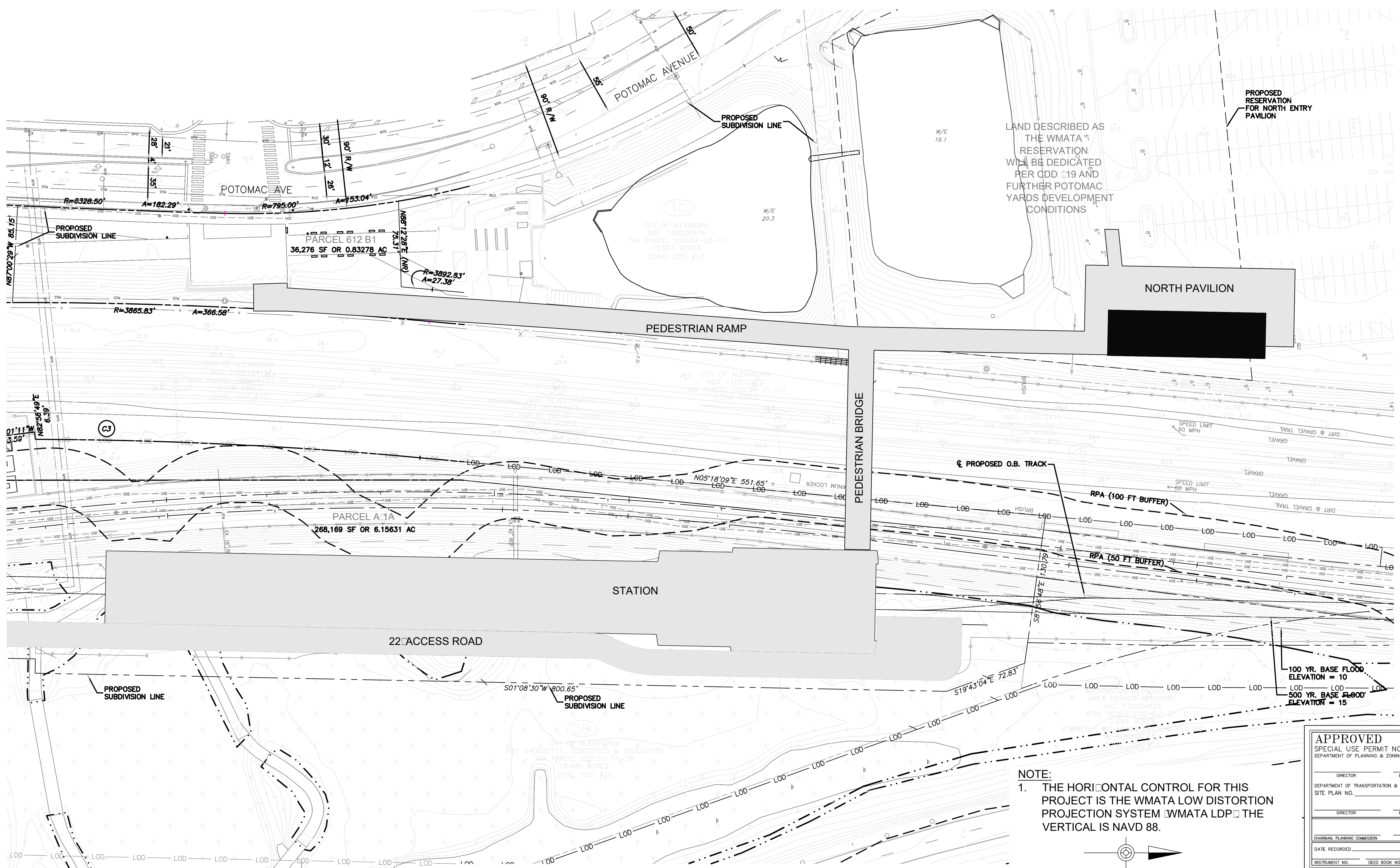
Job No

254922

Drawing No

C-01

Issue



LAND DESCRIBED AS
THE WMATA
RESERVATION
WILL BE DEDICATED
PER CDD #19 AND
FURTHER POTOMAC
YARDS DEVELOPMENT
CONDITIONS

PROPOSED
RESERVATION
FOR NORTH ENTRY
PAVILION

NORTH PAVILION

PEDESTRIAN RAMP

PEDESTRIAN BRIDGE

STATION

22 ACCESS ROAD

100 YR. BASE FLOOD
ELEVATION = 10
500 YR. BASE FLOOD
ELEVATION = 15

NOTE:
1. THE HORIZONTAL CONTROL FOR THIS
PROJECT IS THE WMATA LOW DISTORTION
PROJECTION SYSTEM WMATA LDP THE
VERTICAL IS NAVD 88.

APPROVED
SPECIAL USE PERMIT NO. _____
DEPARTMENT OF PLANNING & ZONING

DIRECTOR _____ DATE _____
DEPARTMENT OF TRANSPORTATION & ENVIRONMENTAL SERVICES
SITE PLAN NO. _____

DIRECTOR _____ DATE _____

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Client
WASHINGTON
METROPOLITAN AREA
TRANSIT AUTHORITY

Job Title
POTOMAC YARD
METRO RAIL STATION

Key Plan

Drawing Title
DEVELOPMENT PRELIMINARY
SITE PLAN 2 OF 3
SHEET 16 OF 37

Issue	Date	By	Chkd	Appd
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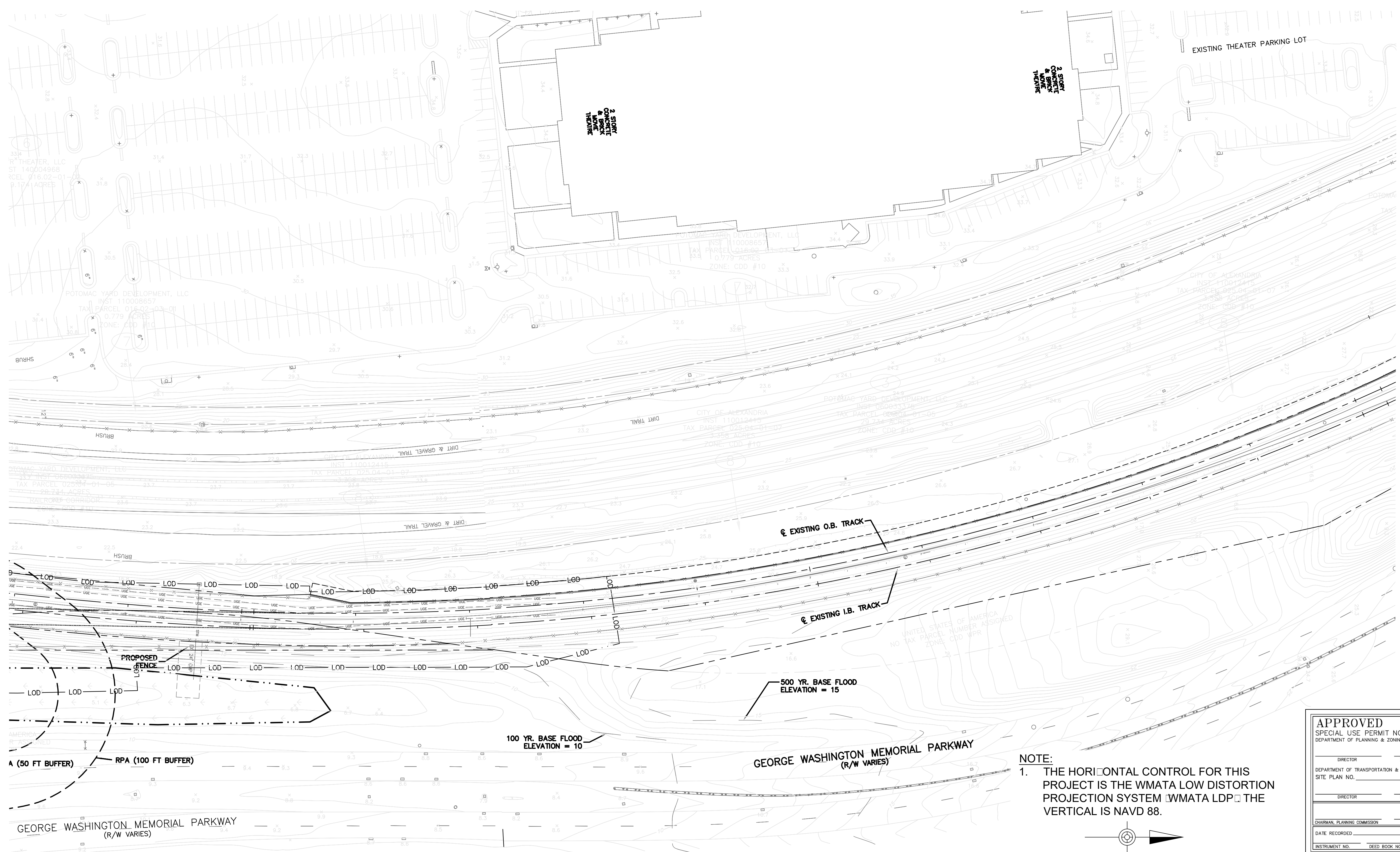
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Drawing Status

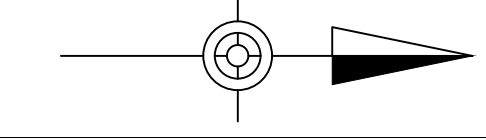
PRELIMINARY DSUP

Job No
254922

Drawing No
C-02



NOTE:
 1. THE HORIZONTAL CONTROL FOR THIS PROJECT IS THE WMATA LOW DISTORTION PROJECTION SYSTEM [WMATA LDP] THE VERTICAL IS NAVD 88.



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SITE PLAN NO. _____		
DIRECTOR _____	DATE _____	
CHAIRMAN, PLANNING COMMISSION _____		
DATE RECORDED _____		
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Client
 WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

Job Title
 POTOMAC YARD METRORAIL STATION

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Key Plan

Drawing Title
 DEVELOPMENT PRELIMINARY SITE PLAN 3 OF 3

Scale
 1"=40'

File Name
 SHEET 18 OF 38

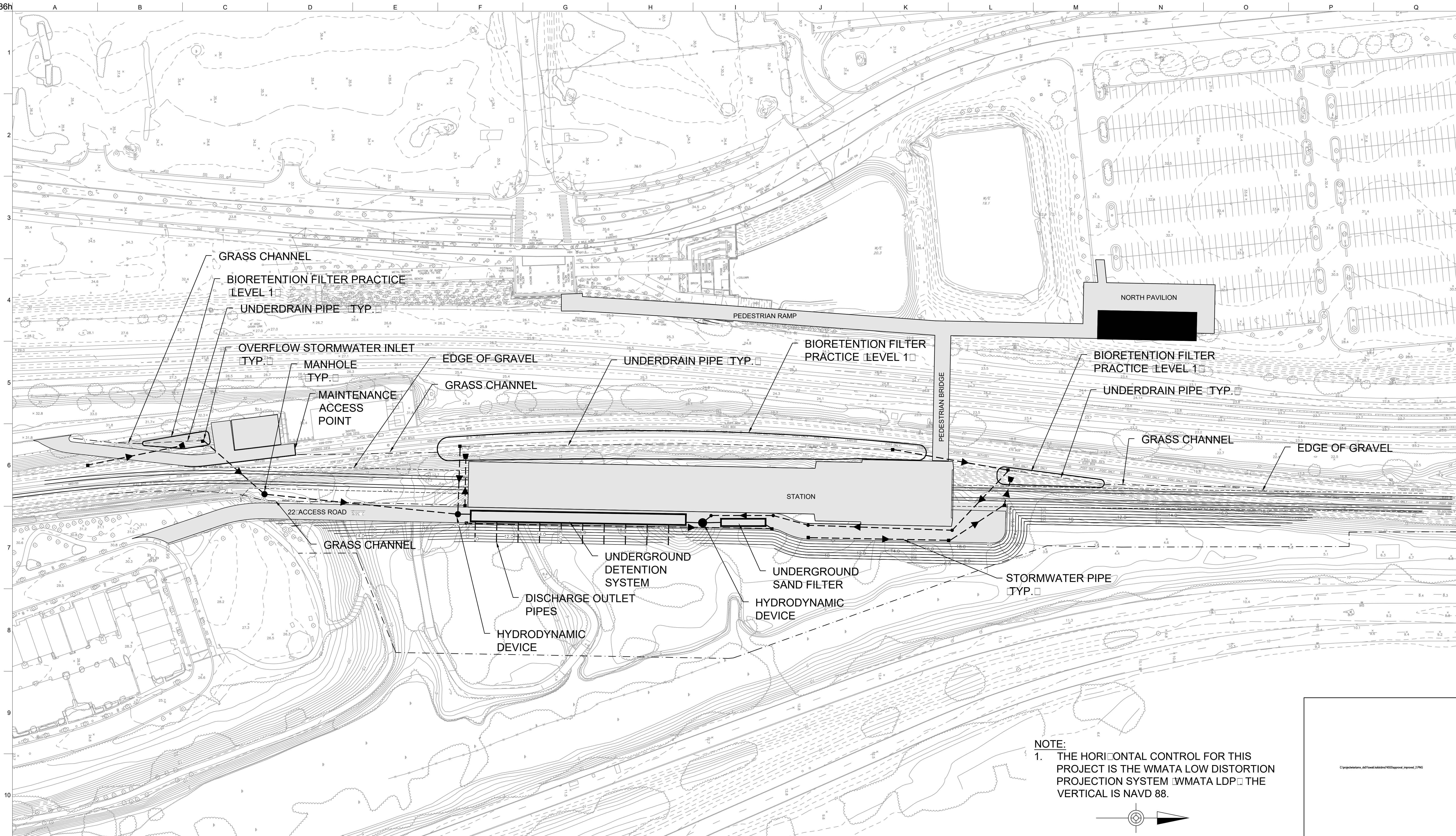
Drawing Status
 PRELIMINARY DSUP

Job No
 254922

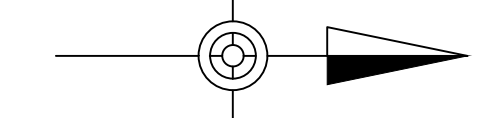
Drawing No
 C-03

Issue

11/19/2018	JS	JD	TW
Issue	Date	By	Chkd
			Appd



NOTE:
 1. THE HORIZONTAL CONTROL FOR THIS PROJECT IS THE WMATA LOW DISTORTION PROJECTION SYSTEM (WMATA LDP) THE VERTICAL IS NAVD 88.



**PRELIMINARY -
 CONSTRUCTION**
 COMMONWEALTH OF VIRGINIA
 THOMAS JOHN WAGNER
 Lic. No. 59721
 PROFESSIONAL ENGINEER

Client
 WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

Job Title
 POTOMAC YARD METRORAIL STATION

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Key Plan

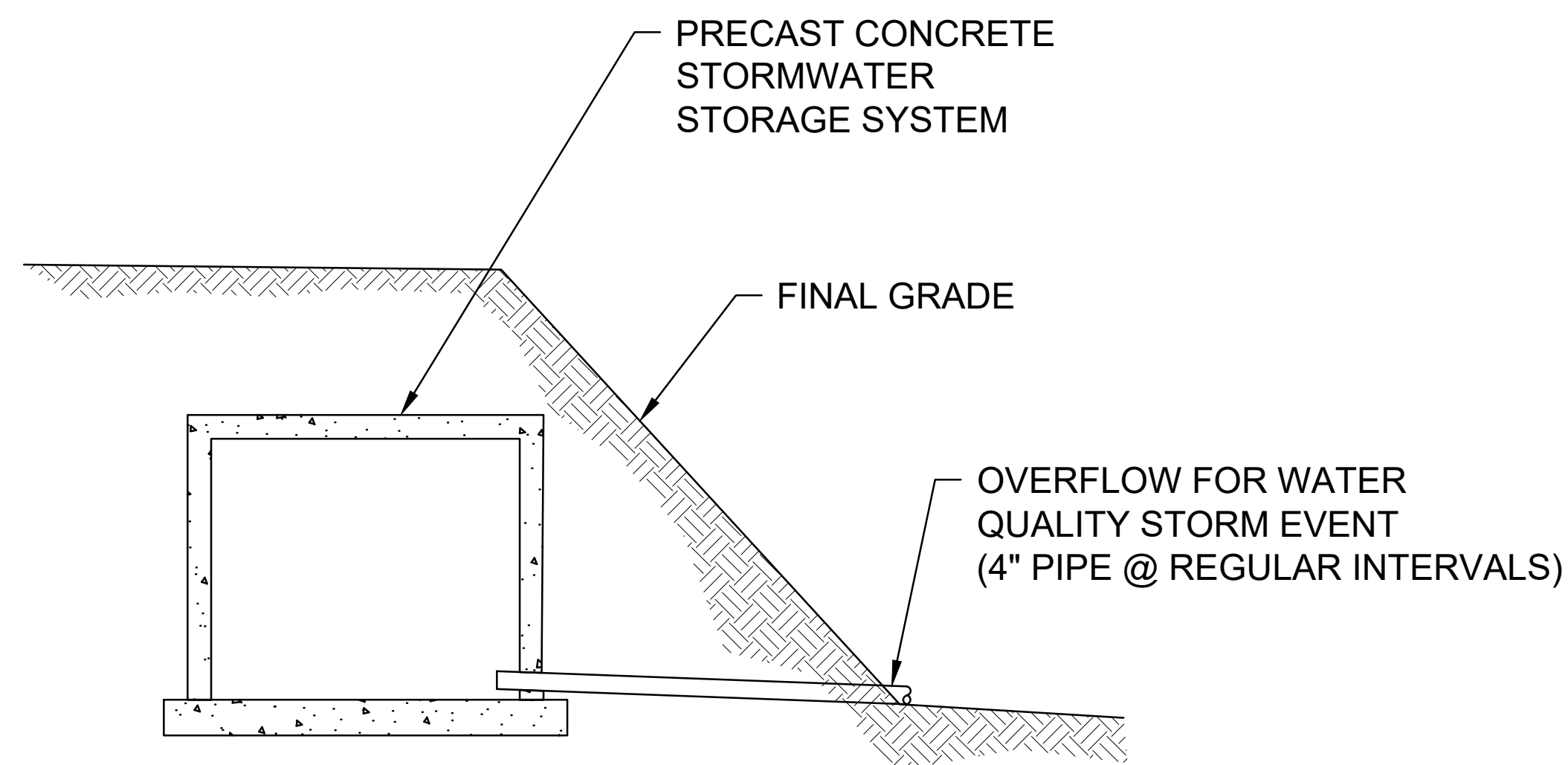
Drawing Title
 STORMWATER MANAGEMENT PLAN
 SHEET 18 OF 37

Scale 1"=60'

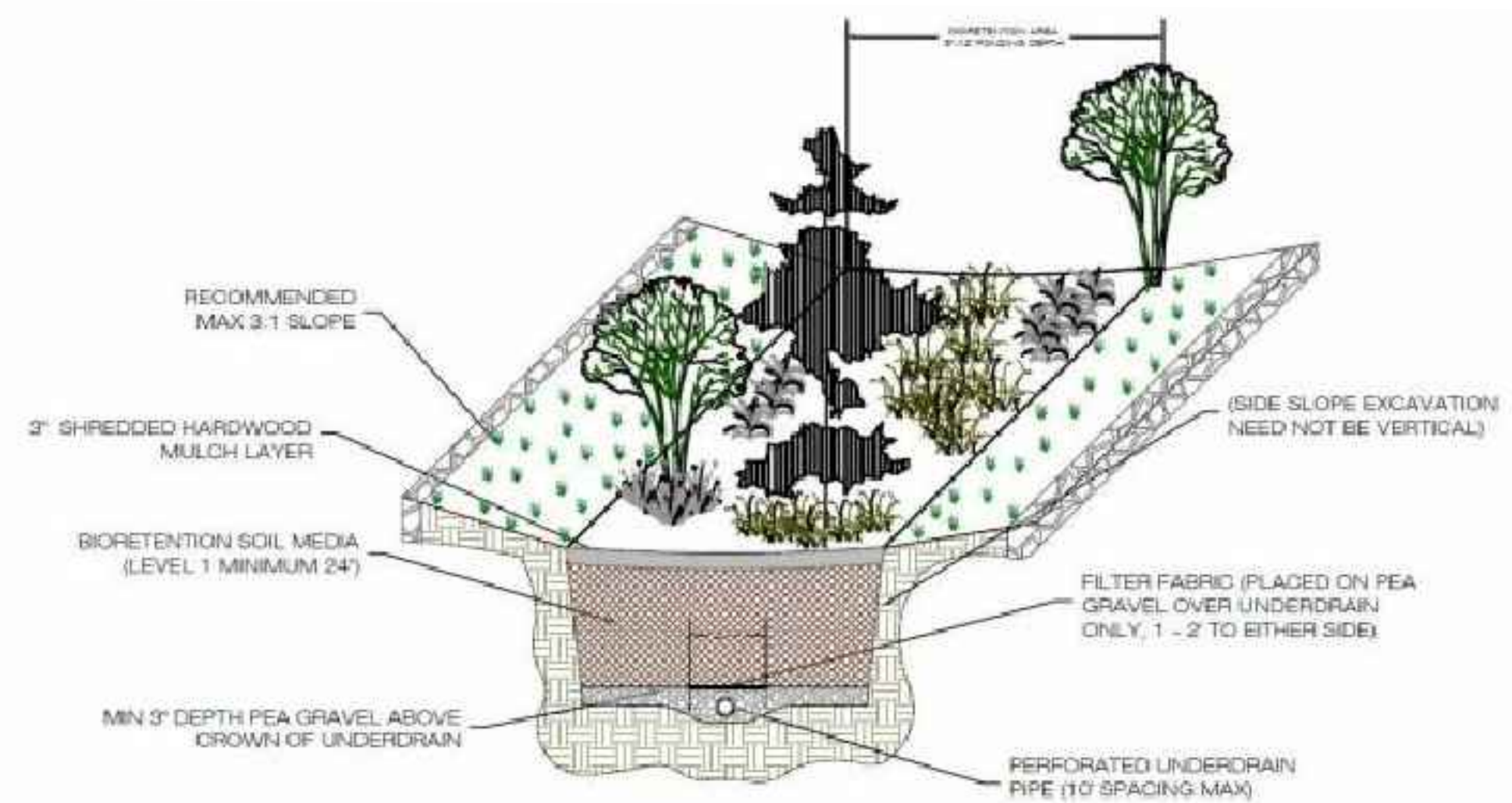
File Name
 Drawing Status
PRELIMINARY DSUP

Job No. **254922** Drawing No. **C-04** Issue

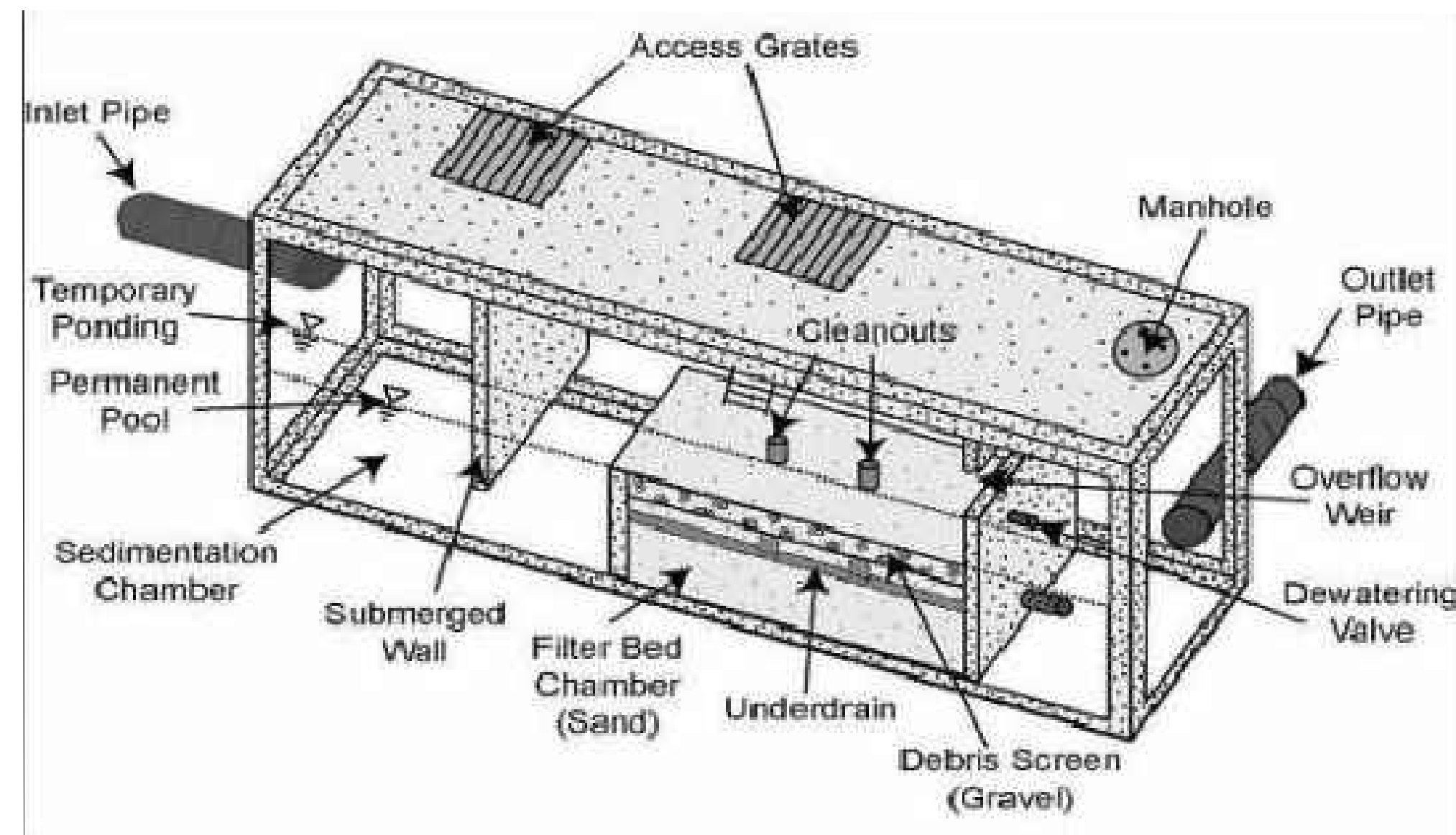
Issue	Date	By	Chkd	Appd
	11/19/2018	JS	JD	TW



UNDERGROUND DETENTION BASIN
N.T.S.



TYPICAL BIORETENTION BASIN (LEVEL 1)
N.T.S.



TYPICAL UNDERGROUND SAND FILTER
N.T.S.

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Issue	Date	By	Chkd	Appd
11/19/2018	JS	JD	TW	

Client
WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

Job Title
POTOMAC YARD METRORAIL STATION

Drawing Title
STORMWATER MANAGEMENT DETAILS

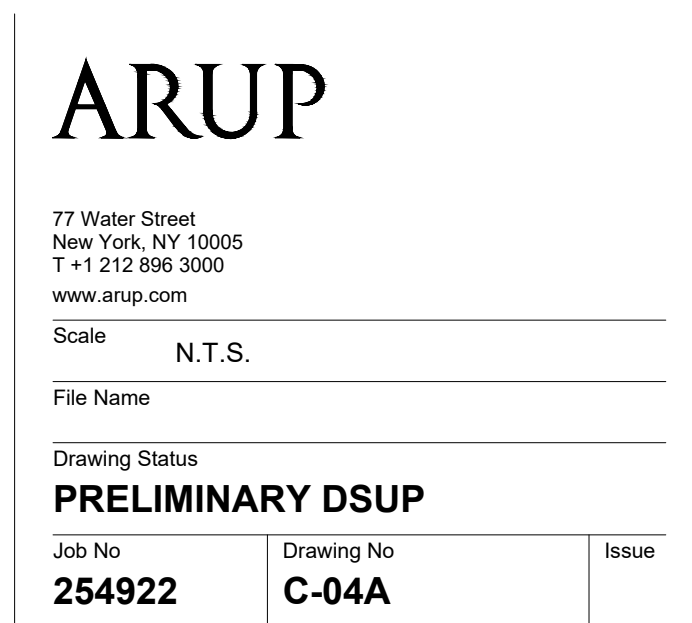
SHEET 20 of 38

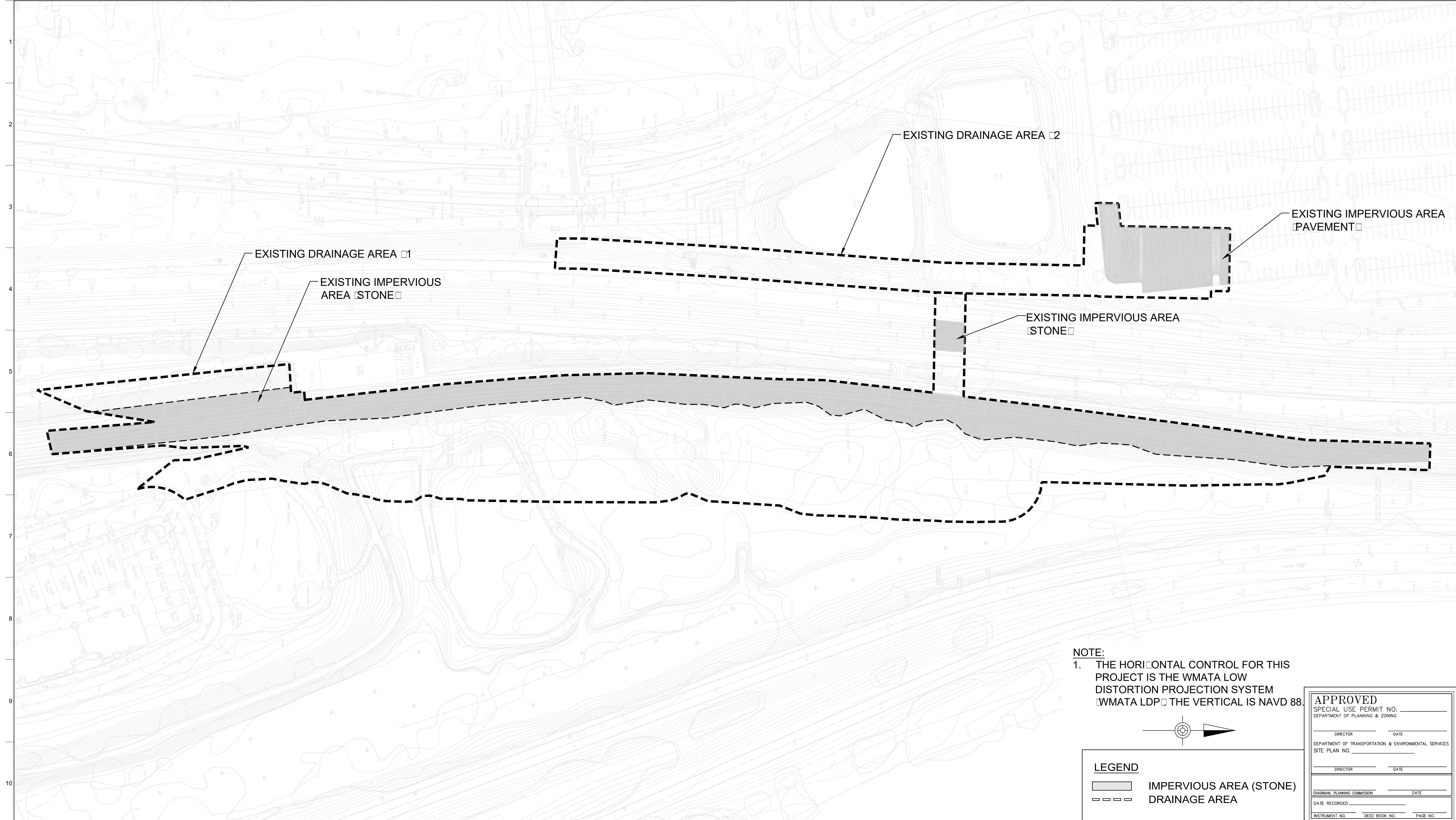
Scale N.T.S.

File Name _____

Drawing Status
PRELIMINARY DSUP

Job No **254922** Drawing No **C-04A** Issue _____





NOTE:
 1. THE HORIZONTAL CONTROL FOR THIS PROJECT IS THE WMATA LOW DISTORTION PROJECTION SYSTEM (WMATA LDP) THE VERTICAL IS NAVD 88.

LEGEND

	IMPERVIOUS AREA (STONE)
	DRAINAGE AREA

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DIRECTOR _____	DATE _____
DEPARTMENT OF TRANSPORTATION & ENVIRONMENTAL SERVICES	
SITE PLAN NO. _____	
DIRECTOR _____	DATE _____
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Client				
WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY				
Key Plan				
11/19/2018	JS	JD	TW	
Issue	Date	By	Chkd	Appd

Job Title
 POTOMAC YARD METRORAIL STATION

Drawing Title
 EXISTING DRAINAGE AREA PLAN

SHEET 20 OF 37

Scale 1"=60'

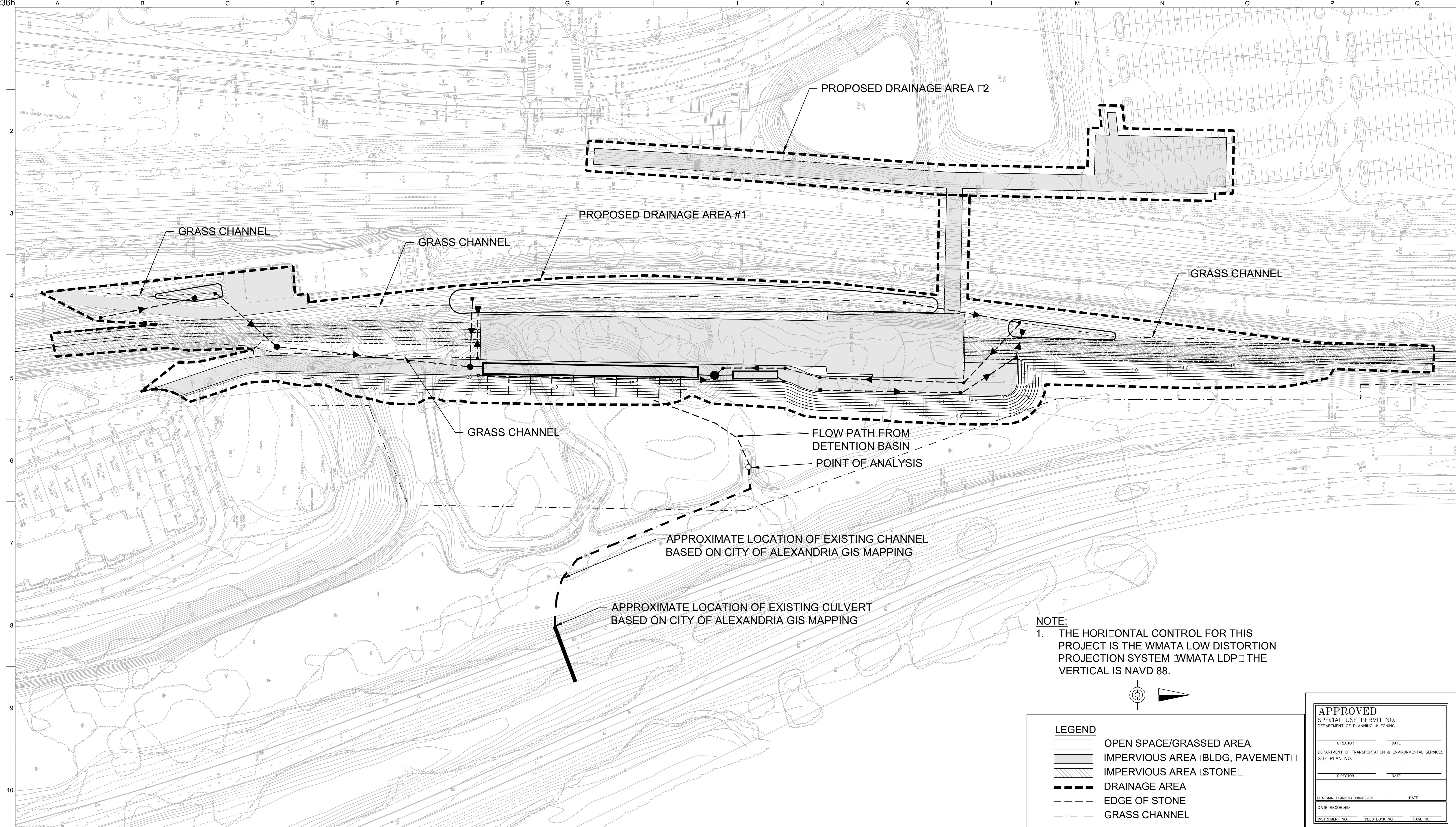
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Drawing Status
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Job No. **254922** Drawing No. **C-05** Issue _____

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NOTE:
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LEGEND	
	OPEN SPACE/GRASSED AREA
	IMPERVIOUS AREA (BLDG, PAVEMENT)
	IMPERVIOUS AREA (STONE)
	DRAINAGE AREA
	EDGE OF STONE
	GRASS CHANNEL

APPROVED	
SPECIAL USE PERMIT NO. _____	
DEPARTMENT OF PLANNING & ZONING	
DIRECTOR _____	DATE _____
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SITE PLAN NO. _____	
DIRECTOR _____	DATE _____
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DATE RECORDED _____	
INSTRUMENT NO. _____	DEED BOOK NO. _____
_____	PAGE NO. _____



Client					
WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY					
Job Title					
POTOMAC YARD METRORAIL STATION					
Drawing Title					
PROPOSED DRAINAGE AREA PLAN					
SHEET 21 of 37					
Date					
11/19/2018	JS	JD	TW		
Issue	Date	By	Chkd	Appd	

Client
 WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

Job Title
 POTOMAC YARD METRORAIL STATION

Drawing Title
 PROPOSED DRAINAGE AREA PLAN

SHEET 21 of 37

Client
 WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

Job Title
 POTOMAC YARD METRORAIL STATION

Drawing Title
 PROPOSED DRAINAGE AREA PLAN

SHEET 21 of 37

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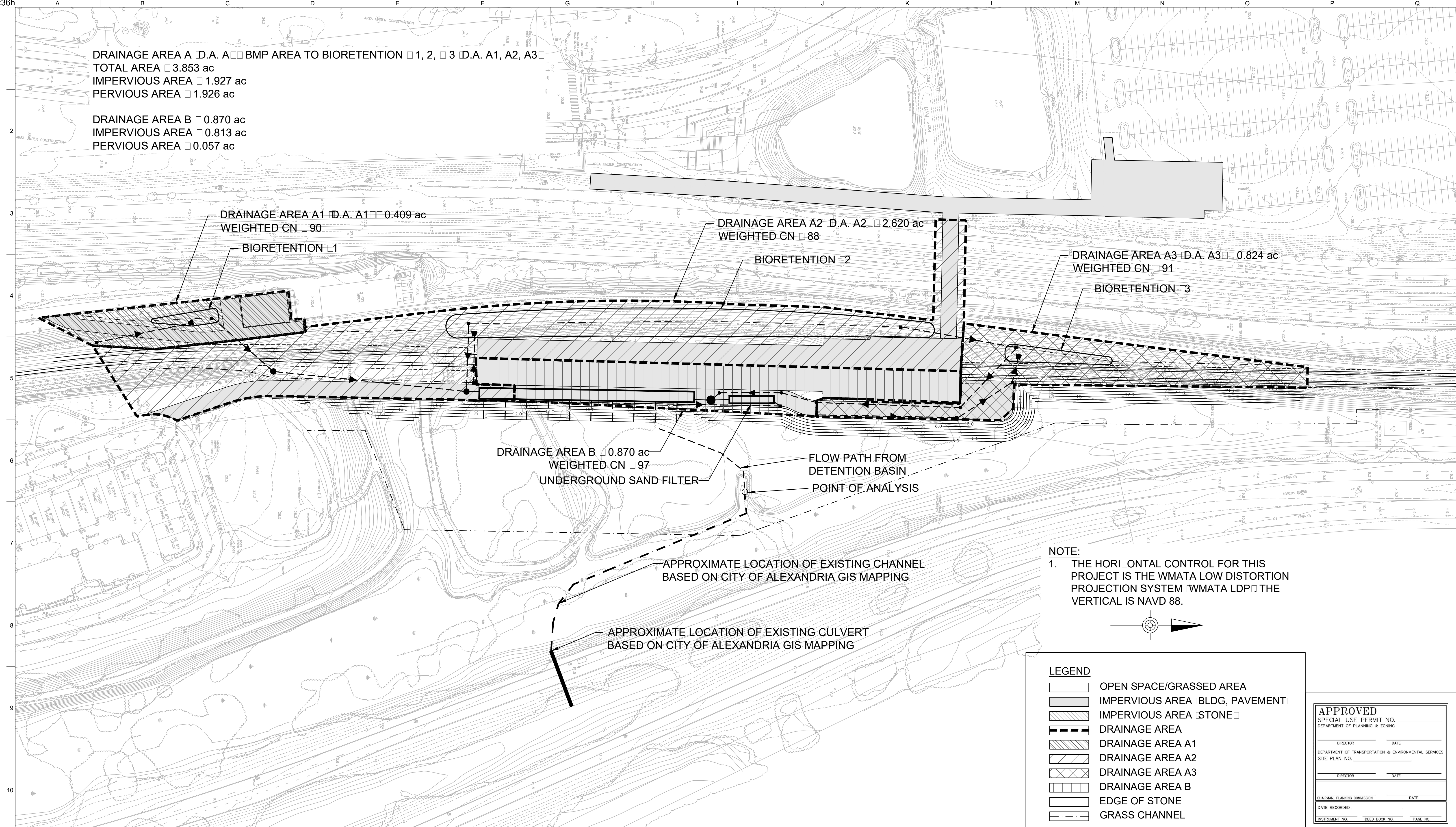
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Drawing Status
PRELIMINARY DSUP

Job No	Drawing No	Issue
254922	C-06	



DRAINAGE AREA A (D.A. A) BMP AREA TO BIORETENTION 1, 2, 3 (D.A. A1, A2, A3)
 TOTAL AREA 3.853 ac
 IMPERVIOUS AREA 1.927 ac
 PERVIOUS AREA 1.926 ac

DRAINAGE AREA B 0.870 ac
 IMPERVIOUS AREA 0.813 ac
 PERVIOUS AREA 0.057 ac

DRAINAGE AREA A1 (D.A. A1) 0.409 ac
 WEIGHTED CN 90

BIORETENTION 1

DRAINAGE AREA A2 (D.A. A2) 2.620 ac
 WEIGHTED CN 88

BIORETENTION 2

DRAINAGE AREA A3 (D.A. A3) 0.824 ac
 WEIGHTED CN 91

BIORETENTION 3

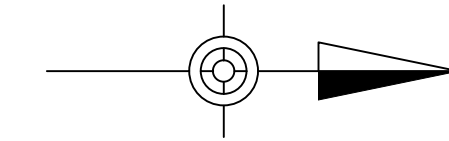
DRAINAGE AREA B 0.870 ac
 WEIGHTED CN 97
 UNDERGROUND SAND FILTER

FLOW PATH FROM
 DETENTION BASIN
 POINT OF ANALYSIS

APPROXIMATE LOCATION OF EXISTING CHANNEL
 BASED ON CITY OF ALEXANDRIA GIS MAPPING

APPROXIMATE LOCATION OF EXISTING CULVERT
 BASED ON CITY OF ALEXANDRIA GIS MAPPING

NOTE:
 1. THE HORIZONTAL CONTROL FOR THIS PROJECT IS THE WMATA LOW DISTORTION PROJECTION SYSTEM (WMATA LDP) THE VERTICAL IS NAVD 88.



LEGEND

[White Box]	OPEN SPACE/GRASSED AREA
[Grey Box]	IMPERVIOUS AREA (BLDG, PAVEMENT)
[Hatched Box]	IMPERVIOUS AREA (STONE)
[Dashed Line]	DRAINAGE AREA
[Diagonal Hatched Box]	DRAINAGE AREA A1
[Cross-hatched Box]	DRAINAGE AREA A2
[Horizontal Hatched Box]	DRAINAGE AREA A3
[Vertical Hatched Box]	DRAINAGE AREA B
[Dotted Line]	EDGE OF STONE
[Wavy Line]	GRASS CHANNEL

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DEPARTMENT OF TRANSPORTATION & ENVIRONMENTAL SERVICES
 SITE PLAN NO. _____

DIRECTOR _____ DATE _____

CHAIRMAN, PLANNING COMMISSION _____ DATE _____

DATE RECORDED _____

INSTRUMENT NO. _____ DEED BOOK NO. _____ PAGE NO. _____



Client
 WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

Job Title
 POTOMAC YARD METRORAIL STATION

Key Plan

Drawing Title
 PROPOSED BMP PLAN

Issue	Date	By	Chkd	Appd
	11/19/2018	JIS	JD	TW

SHEET 22 OF 37

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Drawing Status
PRELIMINARY DSUP

Job No 254922	Drawing No C-06A	Issue
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Project Name: WMATA POTOMAC YARD METRO STATION
Date: 11/12/2018
Linear Development Project? No

CLEAR ALL (Crush/Ship/R)
data input cells
constant values
calculation cells
final results

Site Information

Post-Development Project (Treatment Volume and Loads)
Enter Total Disturbed Area (acres) -> 13.00
Maximum reduction required: 20%
The site's net increase in impervious cover (acres) is: 0.98
Post-Development TP Load Reduction for Site (lb/yr): 4.55

Pre-Development Land Cover (acres) table with columns: A Soils, B Soils, C Soils, D Soils, Totals. Rows: Forest/Open Space, Managed Turf, Impervious Cover.

Post-Development Land Cover (acres) table with columns: A Soils, B Soils, C Soils, D Soils, Totals. Rows: Forest/Open Space, Managed Turf, Impervious Cover.

Constants table: Annual Rainfall (inches), Target Rainfall Event (inches), Total Phosphorus (TP) EMC (mg/L), Total Nitrogen (TN) EMC (mg/L), Target TP Load (lb/acre/yr), Target TN Load (lb/acre/yr).

Runoff Coefficients (Rv) table with columns: A Soils, B Soils, C Soils, D Soils. Rows: Forest/Open Space, Managed Turf, Impervious Cover.

LAND COVER SUMMARY -- PRE-REDEVELOPMENT table with columns: Land Cover Summary-Pre, Listed, Adjusted. Rows: Forest/Open Space, Managed Turf, Impervious Cover, Total Site Area, Site Rv.

LAND COVER SUMMARY -- POST DEVELOPMENT table with columns: Land Cover Summary-Post, Post-ReDevelopment, Post-Development New Impervious. Rows: Forest/Open Space, Managed Turf, Impervious Cover, Total Site Area, Site Rv.

Treatment Volume and Nutrient Load table with columns: Pre-Development, Post-Development. Rows: Treatment Volume, TP Load, TN Load.

Treatment Volume and Nutrient Load table with columns: Post-ReDevelopment, Post-Development. Rows: Treatment Volume, TP Load, TN Load.

Adjusted Land Cover Summary: Pre-Development land cover minus previous land cover (forest/open space or managed turf) acreage proposed for new impervious cover.

Post-Development Requirement for Site Area table: TP Load Reduction Required (lb/yr) 4.55. Nitrogen Loads (Informational Purposes Only) table: Pre-Development TN Load (lb/yr) 68.15, Final Post-Development TN Load (Post-Development & New Impervious) (lb/yr) 89.33.

Drainage Area A and Stormwater Best Management Practices (BMP) table. Columns include: Practice, Runoff Reduction, Management, etc. Rows include: 1. Vegetated Roof, 2. Rainwater Harvesting, 3. Rainwater Storage, etc.

Summary table for Drainage Area A: TOTAL IMPERVIOUS COVER TREATED, TOTAL MANAGED TURF AREA TREATED, TOTAL PHOSPHORUS REMOVED, etc.

Drainage Area B and Stormwater Best Management Practices (BMP) table. Columns include: Practice, Runoff Reduction, Management, etc. Rows include: 1. Vegetated Roof, 2. Rainwater Harvesting, 3. Rainwater Storage, etc.

Summary table for Drainage Area B: TOTAL IMPERVIOUS COVER TREATED, TOTAL MANAGED TURF AREA TREATED, TOTAL PHOSPHORUS REMOVED, etc.

Site Results (Water Quality Compliance) table with columns: Area Checks, D.A. A, D.A. B, D.A. C, D.A. D, D.A. E, AREA CHECK. Rows: Forest/Open Space, Impervious Cover, Managed Turf Area, etc.

Runoff Reduction Volume and TP by Drainage Area table with columns: D.A. A, D.A. B, D.A. C, D.A. D, D.A. E, TOTAL. Rows: Runoff Reduction Volume Achieved, TP Load Available for Removal, etc.

Drainage Area A and Stormwater Best Management Practices (BMP) table. Columns include: Practice, Runoff Reduction, Management, etc. Rows include: 1. Vegetated Roof, 2. Rainwater Harvesting, 3. Rainwater Storage, etc.

Summary table for Drainage Area A: TOTAL IMPERVIOUS COVER TREATED, TOTAL MANAGED TURF AREA TREATED, TOTAL PHOSPHORUS REMOVED, etc.

Drainage Area B and Stormwater Best Management Practices (BMP) table. Columns include: Practice, Runoff Reduction, Management, etc. Rows include: 1. Vegetated Roof, 2. Rainwater Harvesting, 3. Rainwater Storage, etc.

Summary table for Drainage Area B: TOTAL IMPERVIOUS COVER TREATED, TOTAL MANAGED TURF AREA TREATED, TOTAL PHOSPHORUS REMOVED, etc.

Site Results (Water Quality Compliance) table with columns: Area Checks, D.A. A, D.A. B, D.A. C, D.A. D, D.A. E, AREA CHECK. Rows: Forest/Open Space, Impervious Cover, Managed Turf Area, etc.

Runoff Reduction Volume and TP by Drainage Area table with columns: D.A. A, D.A. B, D.A. C, D.A. D, D.A. E, TOTAL. Rows: Runoff Reduction Volume Achieved, TP Load Available for Removal, etc.

Drainage Area A and Stormwater Best Management Practices (BMP) table. Columns include: Practice, Runoff Reduction, Management, etc. Rows include: 1. Vegetated Roof, 2. Rainwater Harvesting, 3. Rainwater Storage, etc.

Summary table for Drainage Area A: TOTAL IMPERVIOUS COVER TREATED, TOTAL MANAGED TURF AREA TREATED, TOTAL PHOSPHORUS REMOVED, etc.

Drainage Area B and Stormwater Best Management Practices (BMP) table. Columns include: Practice, Runoff Reduction, Management, etc. Rows include: 1. Vegetated Roof, 2. Rainwater Harvesting, 3. Rainwater Storage, etc.

Summary table for Drainage Area B: TOTAL IMPERVIOUS COVER TREATED, TOTAL MANAGED TURF AREA TREATED, TOTAL PHOSPHORUS REMOVED, etc.

Site Results (Water Quality Compliance) table with columns: Area Checks, D.A. A, D.A. B, D.A. C, D.A. D, D.A. E, AREA CHECK. Rows: Forest/Open Space, Impervious Cover, Managed Turf Area, etc.

Runoff Reduction Volume and TP by Drainage Area table with columns: D.A. A, D.A. B, D.A. C, D.A. D, D.A. E, TOTAL. Rows: Runoff Reduction Volume Achieved, TP Load Available for Removal, etc.



Client: WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
Job Title: POTOMAC YARD METRO RAIL STATION
Drawing Title: STORMWATER MANAGEMENT CALCULATIONS 1 OF 2 SHEET 23 OF 37

APPROVED SPECIAL USE PERMIT NO. DEPARTMENT OF PLANNING & ZONING. ARUP logo and contact information. Date recorded: 11/19/2018.

CITY OF ALEXANDRIA STORMWATER CALCULATIONS PER ARTICLE 13-109(F)(1)

EXISTING CONDITIONS
THE PROJECT SITE CONSISTS PRIMARILY OF WETLAND AND EXISTING RAIL BED. THE SITE IS LOCATED IN THE POTOMAC RIVER WATERSHED. THE SITE IS PRIMARILY LOCATED EAST OF THE EXISTING WMATA TRACKS AND RUNOFF DRAINS GENERALLY TO A WETLAND/SWAMP TO THE EAST.

PROPOSED CONDITIONS
PROPOSED IMPROVEMENTS CONSIST OF SECTION OF NEW RAIL BED AND NEW METRO PLATFORM. A POWER SWITCHGEAR BUILDING, AND PEDESTRIAN RAMPS AND BRIDGES TO PROVIDE STATION ACCESS FROM NEARBY LOCATIONS. RUNOFF FROM THE PROPOSED SITE WILL GENERALLY DRAIN TO A WETLAND/SWAMP TO THE EAST.

Area Tabulation			RCN
LoD (site area)	236,549 SF	5.43 ac	
Existing Impervious	88,795 SF	2.04 ac	98
Existing Forest	137,713 SF	3.16 ac	77
Existing Pervious	10,041 SF	0.23 ac	80
		Composite	85
Proposed Impervious	131,551 SF	3.02 ac	98
Proposed Forest	4,360 SF	0.10 ac	77
Proposed Pervious	100,624 SF	2.31 ac	80
		Composite	90
Impervious Increase	42,756 SF	0.98 ac	

STORMWATER QUALITY
THE PROPOSED PROJECT INCREASES IMPERVIOUS AREA ON THE SITE BY 0.98AC. A REQUIRED 20% PHOSPHORUS REDUCTION OF 3.63LB/YR IS COMPUTED BY THE VRRM SPREADSHEET CALCULATIONS (SEE CALCULATIONS, PREVIOUS SHEET).

STORMWATER WILL BE TREATED USING A VARIETY OF PROPRIETARY AND NON-PROPRIETARY BMPs (SEE BMP PLAN FOR DETAILS) INCLUDING GRASS CHANNELS, BIORETENTION, HYDRODYNAMIC DEVICES AND FILTRATION TO TREAT THE ALEXANDRIA TARGET WATER QUALITY VOLUME OF 5,481 CF.

STORMWATER QUANTITY
STORMWATER WILL BE TREATED USING AN UNDERGROUND DETENTION FACILITY LOCATED BELOW THE PROPOSED STATION ACCESS ROAD ON THE EAST SIDE OF THE STATION. IT WILL DISCHARGE INTO THE EXISTING WETLAND AREA. SEE STORAGE VOLUME CALCULATION (THIS SHEET) FOR CHANNEL PROTECTION (1-YR), ESTIMATED AT 8,064 CF, AND FLOOD CONTROL (10-YR), ESTIMATED AT 13,500 CF.

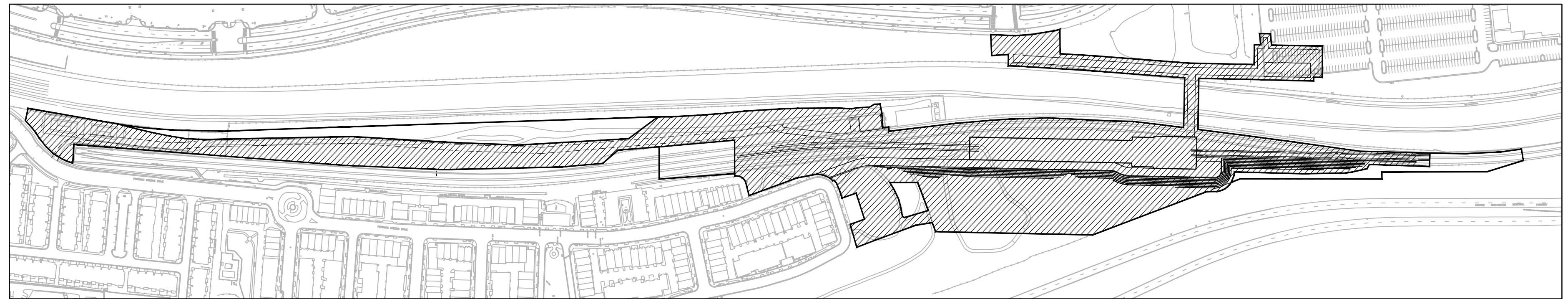
THE OUTFALLS FROM THE SITE DRAIN INTO A 5 ACRE WETLAND/SWAMP AREA, WHICH ULTIMATELY DISCHARGES TO AN EXISTING CULVERT BENEATH THE GEORGE WASHINGTON PARKWAY TO THE EAST. AN EXISTING CHANNEL CONVEYS WATER FROM THE WETLANDS TO THE CULVERT. THE CULVERT AND CHANNEL WERE APPROXIMATELY LOCATED ON THE PLANS BASED ON THE CITY OF ALEXANDRIA GIS MAPPING. THE PROPOSED DRAINAGE AREA PLAN ILLUSTRATES THE FLOW PATH, POINT OF ANALYSIS, AND CONVEYANCE TO THE CULVERTS.

THE CALCULATIONS DEMONSTRATE THAT THE SITE HAS BEEN DEVELOPED TO INCREASE THE POST DEVELOPMENT PEAK RUNOFF RATE FROM THE PRE-DEVELOPMENT PEAK RUNOFF RATE FOR THE ONE-YEAR AND TEN YEAR STORM CONSIDERED INDIVIDUALLY. THEREFORE, STORMWATER DETENTION IS PROVIDED PER THE REQUIREMENTS OF ARTICLE 13-109(F)(1) OF ALEXANDRIA ZONING ORDINANCE NOT TO RELEASE STORMWATER FROM THE SITE AT A HIGHER RATE THAN PRE DEVELOPMENT CONDITION. IN ADDITION TO THE CALCULATION PRESCRIBED IN ARTICLE 13-109(F)(1), A POINT OF ANALYSIS CALCULATION WAS DONE USING A COMPUTER MODEL TO VERIFY THAT THE POST-DEVELOPMENT RUNOFF IS LESS THAN THE PRE-EXISTING RUNOFF TO THE EXISTING CULVERT BENEATH THE GEORGE WASHINGTON PARKWAY.

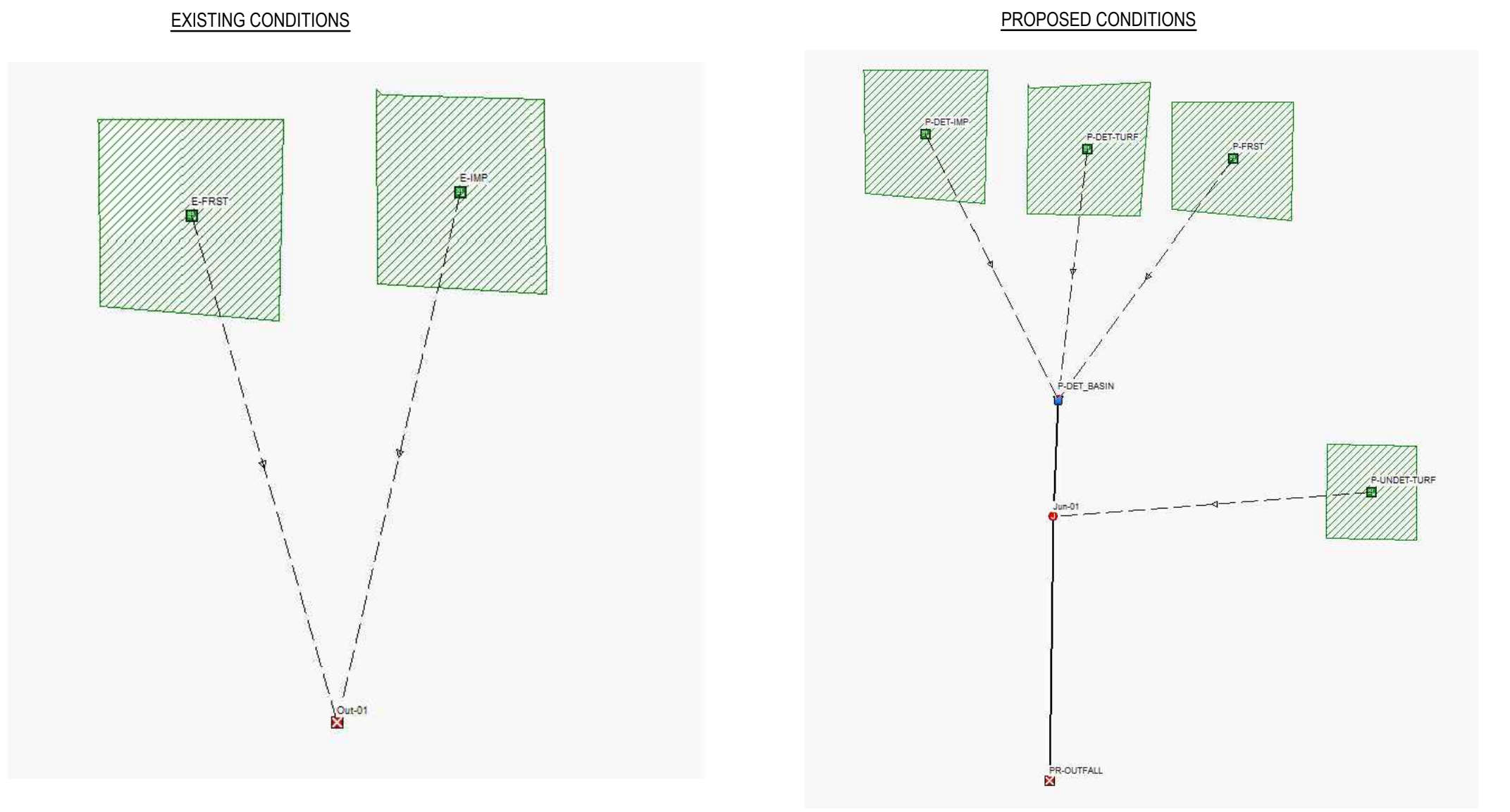
Storage Volume																		
Land Use	HSG	Area	CN	Area	S	I _a	T _c	P ₁	I _a /P	Q ₁₀	RV ₁	Q ₁	P ₁₀	I _a /P	Q ₁₀	RV ₁₀	Q ₁₀	
		(ac)		(mi ²)			(hr)	(in)		(csm/in)	(in)	(cfs)	(in)		(csm/in)	(in)	(cfs)	
Pre-Developed																		
Impervious	D	2.04	98															
Woods, good condition	D	3.16	77															
Open space, good condition	D	0.23	80															
		5.43	85	0.0085	1.763	0.35	0.1	2.7	0.131	990	1.34	11.26	5.2	0.068	1000	3.55	30.16	
Pre-Developed																		
Impervious	D	3.02	98															
Woods, good condition	D	0.10	77															
Open space, good condition	D	2.31	80															
		5.43	90	0.0085	1.117	0.22	0.1	2.7	0.083	990	1.71	14.34	5.2	0.043	1000	4.06	34.48	
Adjusted RCN (with runoff reduction)		5.43	87	0.0085	1.431	0.29	0.1	2.7	0.106	995	1.52	12.79	5.2	0.055	1000	3.81	32.29	
Target, Woods																		
Woods	D	5.43	77															
		5.43	77	0.0085	2.987	0.60	0.1	2.7	0.221	970	0.87	7.15	5.2	0.115	1000	2.79	23.68	
Allowable Post-Development Peak Discharge																		
Q _{1forest}		7.15	cfs			23.68												
RV _{1forest}		0.87	in			2.79												
Q _{10development}		11.26	cfs			30.16												
RV _{10development}		1.34	in			3.55												
Q _{10postdevelopment}		14.34	cfs			34.48												
RV _{10postdevelopment}		1.71	in			4.06												
Q _{1postdevelopment (adjusted)}		12.79	cfs			32.29												
RV _{1postdevelopment (adjusted)}		1.52	in			3.81												
Q _{1allowable}		7.97	cfs			22.54												
Improvement Factor, site > 1ac:		0.8																
Q _{1development} ≤ I _a * (Q _{1postdevelopment} * RV _{1postdevelopment}) / RV _{1development}																		
Minimum Peak Discharge																		
1-yr, forest		4.10	cfs			7.97												
10-yr, forest		17.37	cfs			22.54												
(Q _{1forest} * RV _{1forest}) / RV _{1development}																		
Storage Requirements, est																		
		RV		V _s	Q ₁ /q ₁	V _s /V _s		V _s		V _s								
				(ac-ft)				(ac-ft)		(ft ³)								
1-yr		1.52		0.685653	0.622884	0.27		0.185126		8,064.10								
10-yr		3.81		1.721881	0.697971	0.18		0.309939		13,500.92								

LIMIT OF DISTURBANCE - KEY PLAN

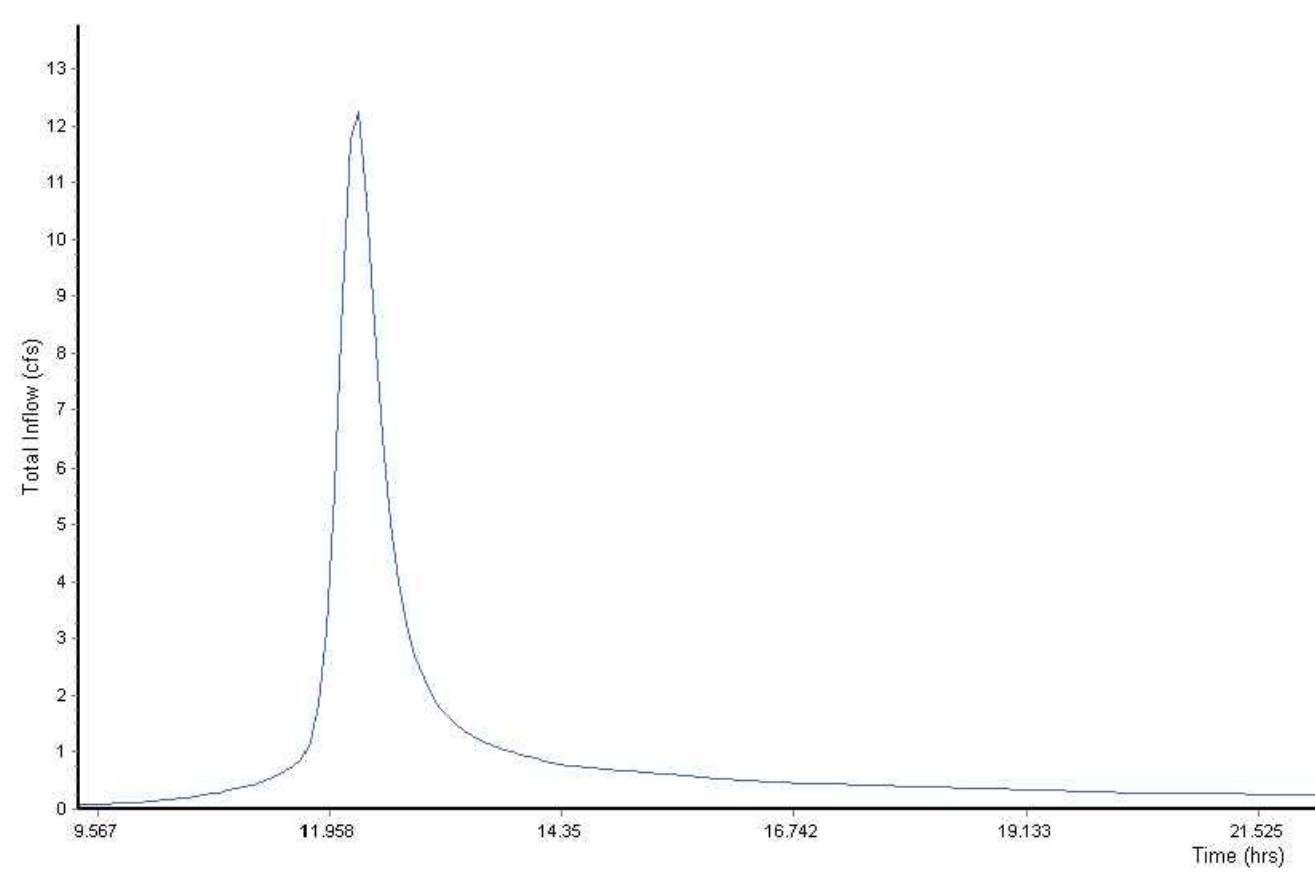
— LIMIT OF DISTURBANCE PER PREVIOUSLY APPROVED DSUP 2016-0004
 ANTICIPATED LIMIT OF DISTURBANCE



POINT OF ANALYSIS CALCULATION: POST DEVELOPMENT RUNOFF CALCULATION TO EXISTING CULVERT
COMPUTER MODEL DIAGRAM, INPUTS, & OUTPUTS



Subbasin P-FRST	Area	Soil	CH
Soil/Surface Description	(acres)	Group	
Woods & grass combination, Good	0.06	D	79.00
Composite Area & Weighted CH	3.06		79.00
Subbasin P-DIP			
Soil/Surface Description	(acres)	Group	CH
Woods & grass combination, Poor	1.98	D	89.00
Composite Area & Weighted CH	1.98		89.00
Subbasin P-TURF			
Soil/Surface Description	(acres)	Group	CH
Woods & grass combination, Good	0.10	D	79.00
Composite Area & Weighted CH	0.10		79.00
Subbasin P-DET-TURF			
Soil/Surface Description	(acres)	Group	CH
> 75% grass cover, Good	0.44	D	80.00
Composite Area & Weighted CH	0.44		80.00



Outfall Node ID	Flow Frequency	Average Flow (ft ³)	Peak Inflow cfs
PR-OUTFALL	93.23	1.07	4.45
System	93.23	1.07	4.45

APPROVED
SPECIAL USE PERMIT NO. _____
DEPARTMENT OF PLANNING & ZONING

DIRECTOR _____ DATE _____
DEPARTMENT OF TRANSPORTATION & ENVIRONMENTAL SERVICES
SITE PLAN NO. _____

DIRECTOR _____ DATE _____

CHAIRMAN, PLANNING COMMISSION _____ DATE _____

DATE RECORDED _____

INSTRUMENT NO. _____ DEED BOOK NO. _____ PAGE NO. _____

Client
WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

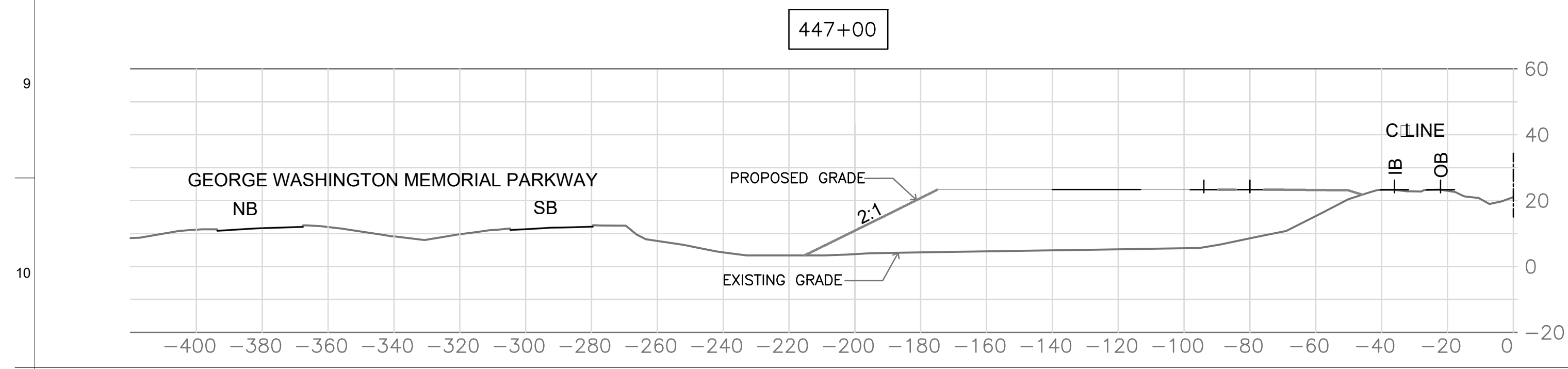
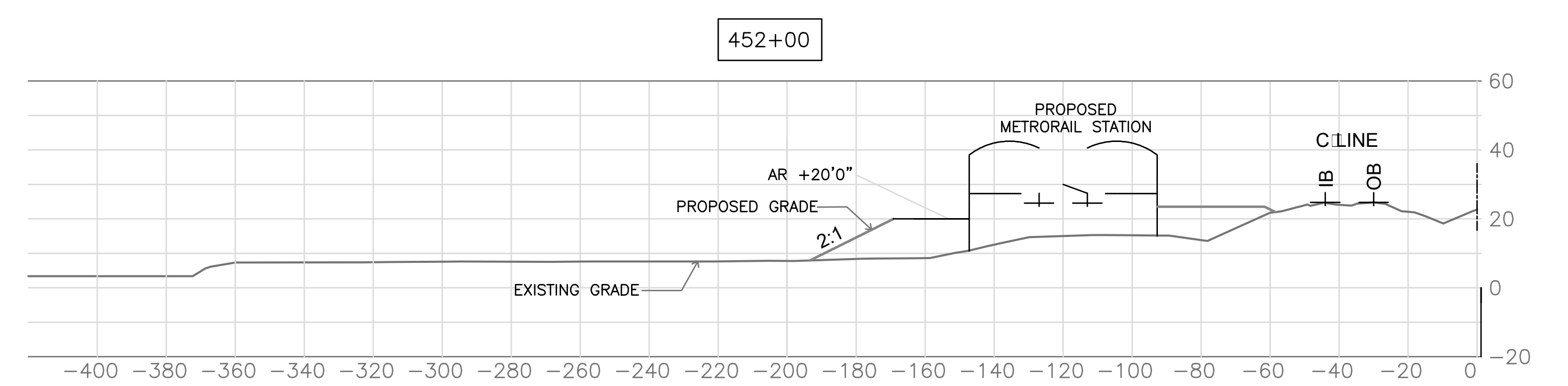
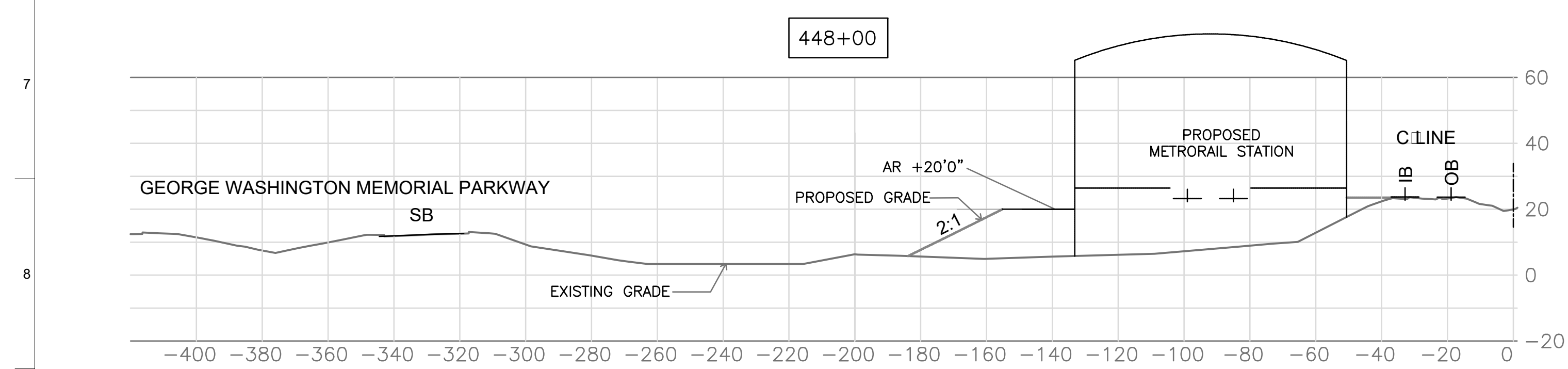
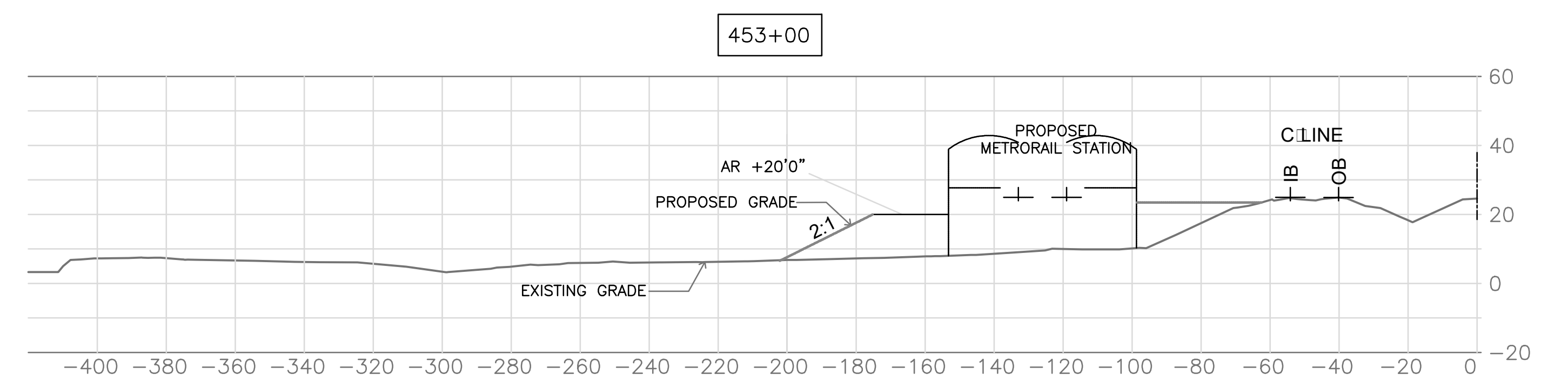
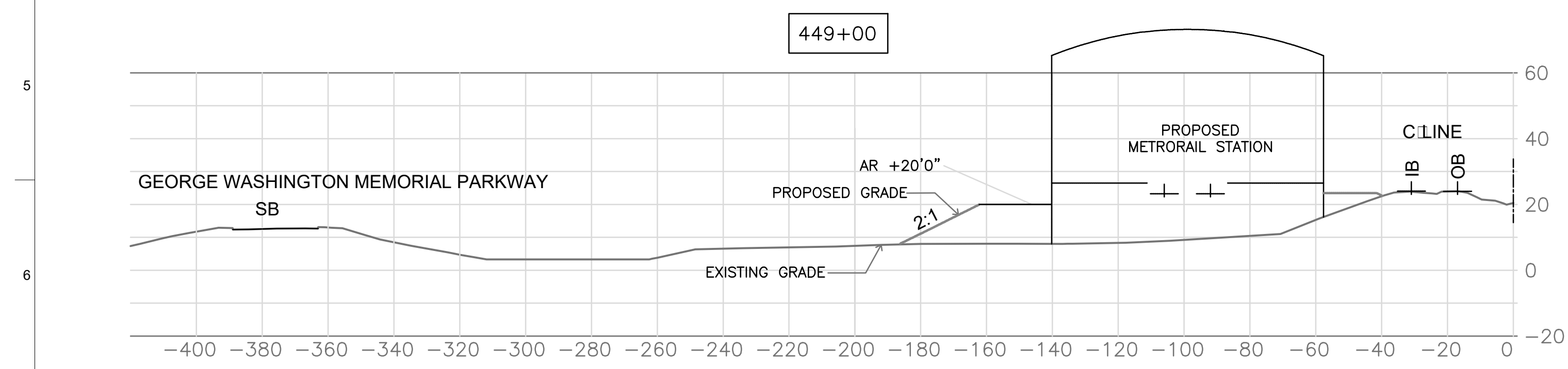
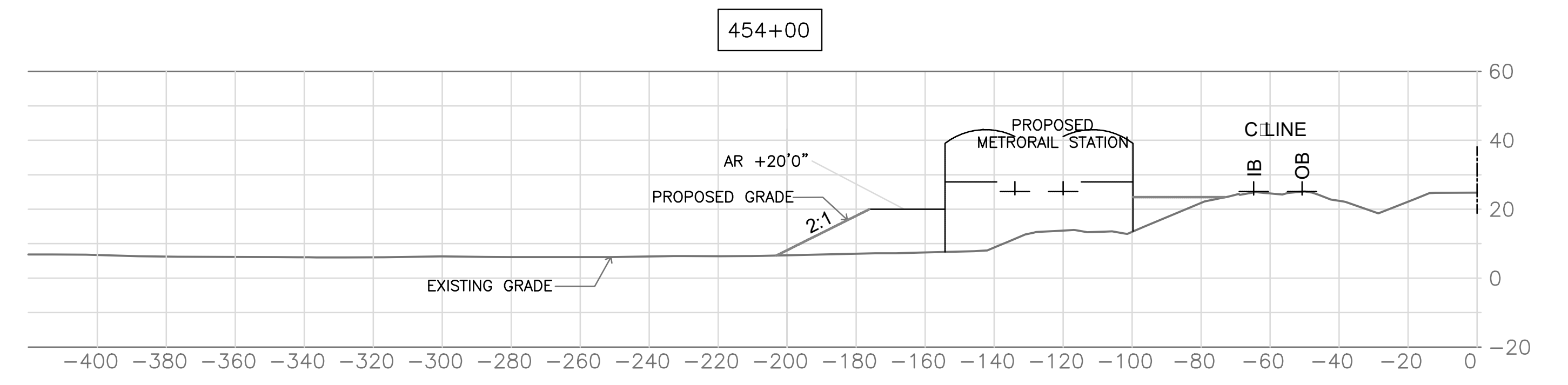
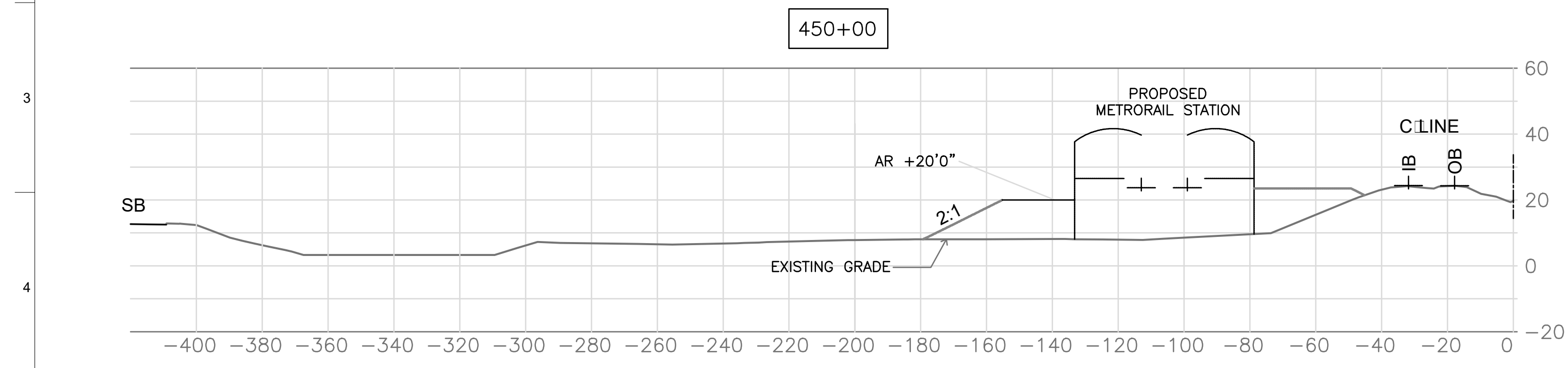
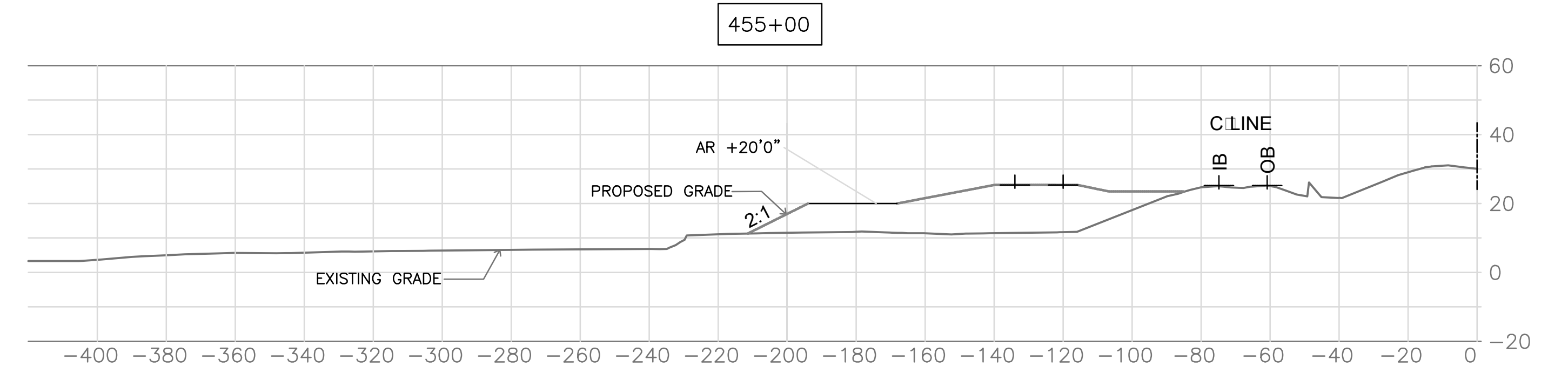
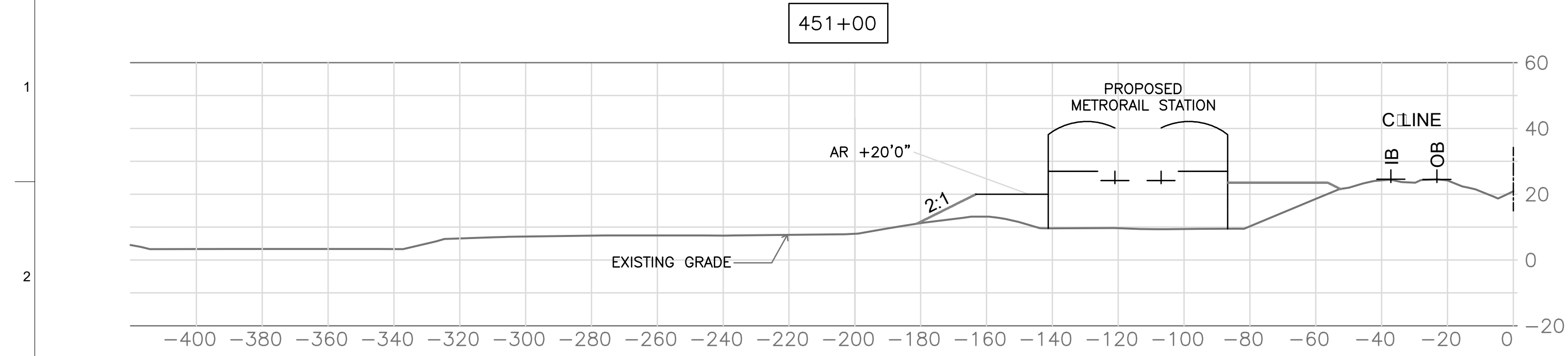
Job Title
POTOMAC YARD METRORAIL STATION

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Scale
NTS
File Name
Drawing Status
PRELIMINARY DSUP
Job No
254922
Drawing No
C-08
Issue

Key Plan

Drawing Title
STORMWATER MANAGEMENT CALCULATIONS 2 OF 2
SHEET 24 OF 37

Issue	Date	By	Chkd	Appd
	11/19/2018	JS	JD	TW



AR = ACCESS ROAD
 IB = INBOUND TRACK
 OB = OUTBOUND TRACK

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DIRECTOR _____	DATE _____	
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SITE PLAN NO. _____		
DIRECTOR _____	DATE _____	
CHAIRMAN, PLANNING COMMISSION _____ DATE _____		
DATE RECORDED _____		
INSTRUMENT NO. _____	DEED BOOK NO. _____	PAGE NO. _____



Client
 WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

Job Title
 POTOMAC YARD METRORAIL STATION

Key Plan

Drawing Title
 SITE CROSS SECTIONS

SHEET 26 OF 38

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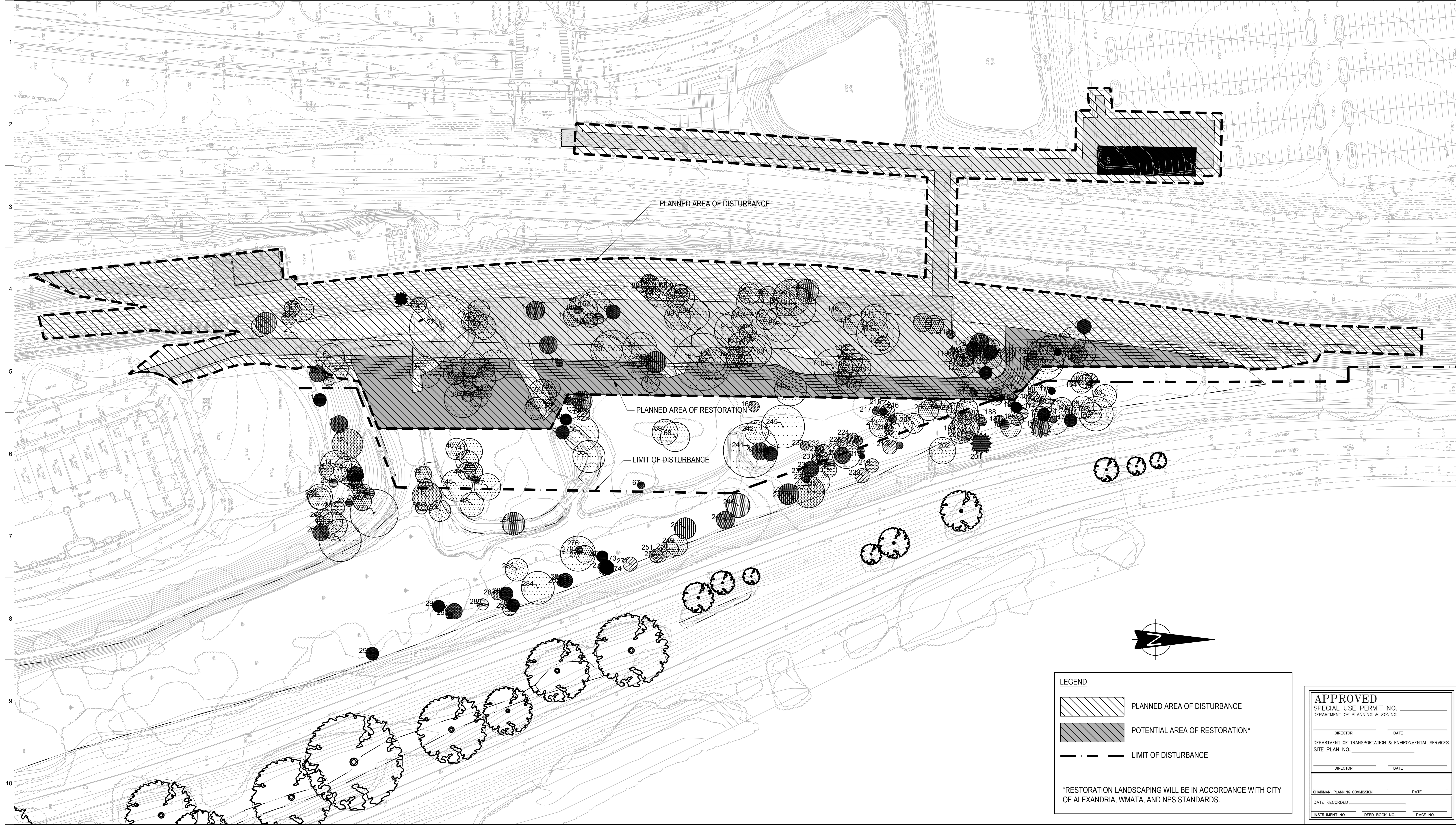
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Drawing Status _____

PRELIMINARY DSUP

Job No. **254922** Drawing No. **C-09** Issue _____

Issue	Date	By	Chkd	Appd
	11/19/2018	JS	JD	TW



LEGEND

- PLANNED AREA OF DISTURBANCE
- POTENTIAL AREA OF RESTORATION*
- LIMIT OF DISTURBANCE

*RESTORATION LANDSCAPING WILL BE IN ACCORDANCE WITH CITY OF ALEXANDRIA, WMATA, AND NPS STANDARDS.

APPROVED
SPECIAL USE PERMIT NO. _____
DEPARTMENT OF PLANNING & ZONING

DIRECTOR _____ DATE _____
DEPARTMENT OF TRANSPORTATION & ENVIRONMENTAL SERVICES
SITE PLAN NO. _____

DIRECTOR _____ DATE _____

CHAIRMAN, PLANNING COMMISSION _____ DATE _____
DATE RECORDED _____

INSTRUMENT NO. _____ DEED BOOK NO. _____ PAGE NO. _____



Issue	Date	By	Chkd	Appd
	11/19/2018	JS	JD	TW

Client
WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

Key Plan _____

Job Title
POTOMAC YARD METRORAIL STATION

Drawing Title
WETLANDS RESTORATION PLAN

SHEET 26 OF 37

ARUP

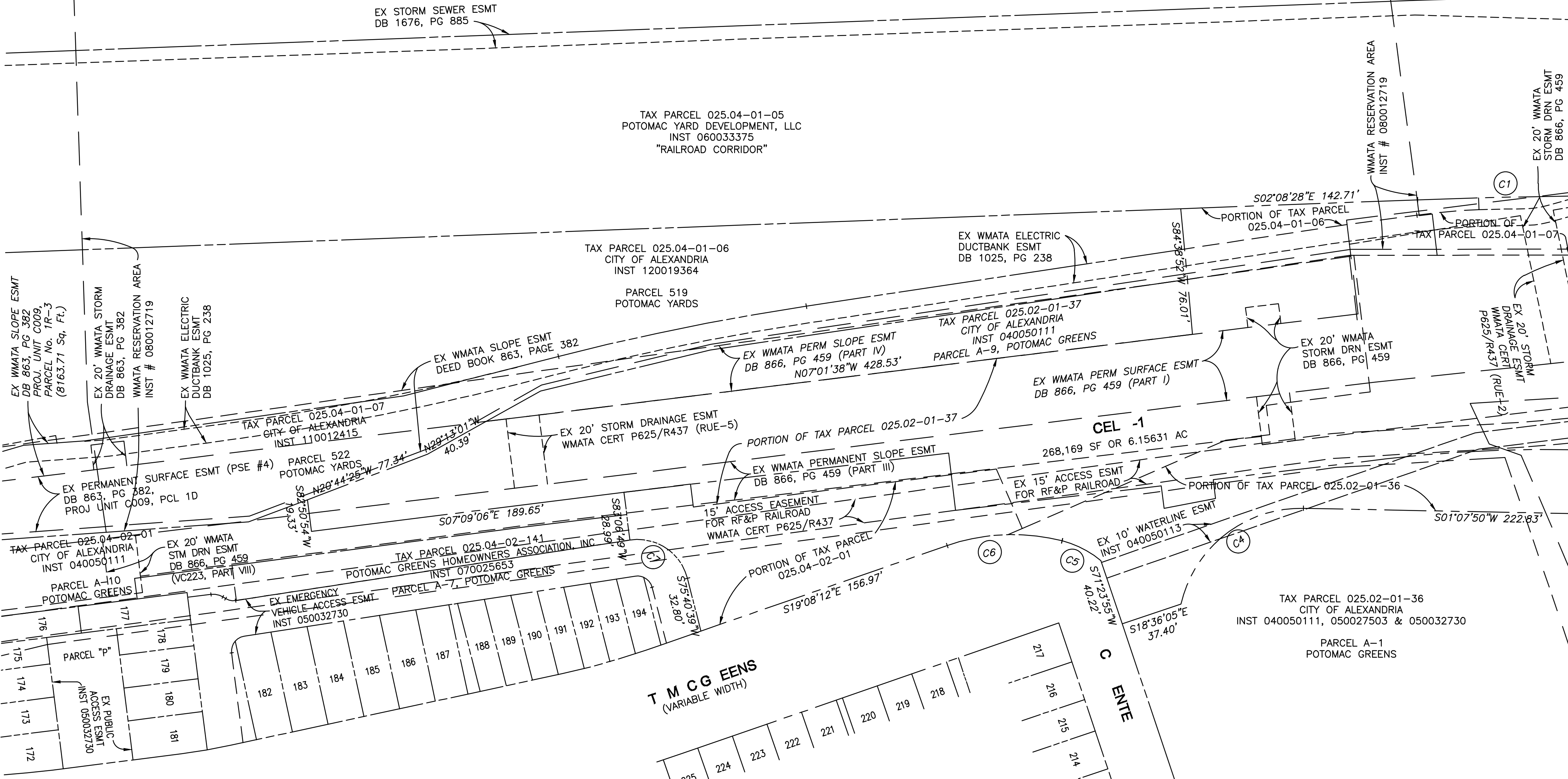
77 Water Street
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Scale 1"=50'

File Name _____
Drawing Status _____
PRELIMINARY DSUP
Job No. **254992** Drawing No. **C-10** Issue _____

TAX PARCEL 025.04-03-01
CITY OF ALEXANDRIA
INST 130026978

PARCEL 612 B
POTOMAC YARD



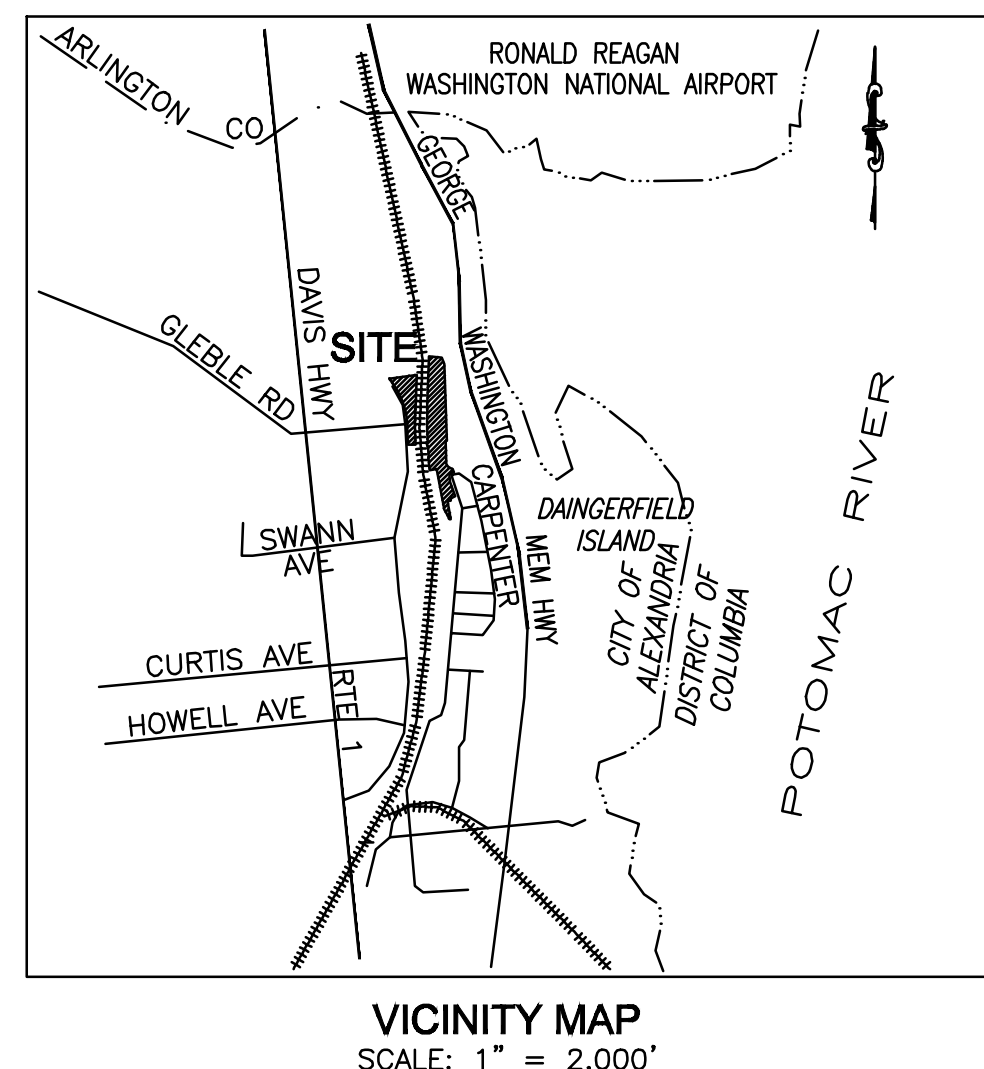
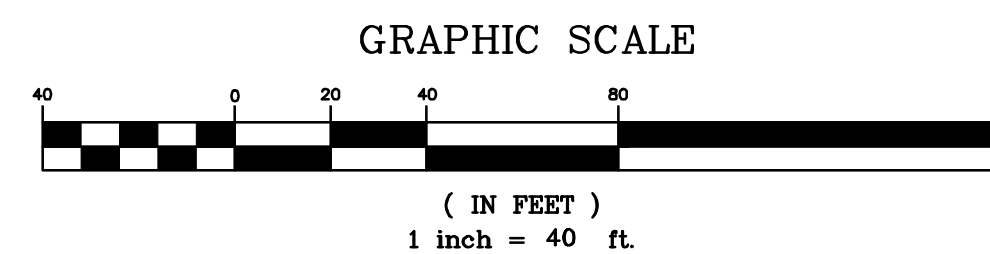
NOTES:

- HORIZONTAL DATUM:
WMATA 2009 LOW DISTORTION PROJECTION SYSTEM
- THE TAX MAP PARCELS, OWNERS AND ZONING OF THE PROPERTIES DELINEATED ON THIS PLAT ARE AS FOLLOWS:
 - 025.04-03-01
(PARCEL 612 B, POTOMAC YARDS)
CITY OF ALEXANDRIA
INST 130026978
DATED DECEMBER 9, 2013
ZONED: CDD#10
 - 025.04-01-06
(PARCEL 519, POTOMAC YARDS)
CITY OF ALEXANDRIA
INST 120019364
DATED JUNE 19, 2012
ZONED: CDD#10
 - 025.04-01-07
(PARCEL 522, POTOMAC YARDS)
CITY OF ALEXANDRIA
INST 110012415
DATED JULY 8, 2011
ZONED: CDD#10
 - 025.02-01-37
(PARCEL A-9, POTOMAC GREENS)
CITY OF ALEXANDRIA
INST 040050111
DATED DECEMBER 10, 2004
ZONED: CDD#10
 - 025.04-02-01
(PARCEL A-10, POTOMAC GREENS)
CITY OF ALEXANDRIA
INST 040050111
DATED DECEMBER 10, 2004
ZONED: CDD#10
 - 025.02-01-36
(PARCEL A-1, POTOMAC GREENS)
CITY OF ALEXANDRIA
INST 040050111
DATED DECEMBER 10, 2004
INST 050027503 (CORRECTION)
RE-RECORD DECEMBER 28, 2004
INST 050032730 (PLAT OF CORRECTION)
DATED AUGUST 25, 2005
ZONED: CDD#10
 - 016.02-02-01
WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
INST 770004826 (DB 863, PG 382)
DATED JULY 20, 1977
ZONED: WPR
- BOUNDARY INFORMATION, AS SHOWN HEREON, IS A COMPILATION OF AVAILABLE DEED AND PLAT RECORDS, "BEST FIT" TO FIELD FOUND EVIDENCE.
- IRON PIPES TO BE SET AT ACCESSIBLE LOT CORNERS AT SUCH TIME THAT OVERLOT GRADING/CONSTRUCTION IS COMPLETE.
- THE PROPERTIES SHOWN HEREON IS LOCATED IN ZONE AE AND ZONE X PER CITY OF ALEXANDRIA VIRGINIA F.I.R.M. PANEL 0033E, MAP NUMBER 5155190033E REVISED DATE OF JUNE 16, 2011.
- OWNER AND APPLICANT:
CITY OF ALEXANDRIA
301 KING STREET
ALEXANDRIA, VA 22314

IN COOPERATION WITH:
WASHINGTON METROPOLITAN TRANSIT AUTHORITY
600 FIFTH ST NW
WASHINGTON DC 20001
- THE SANITARY SEWER POINT OF CONNECTION WILL BE VIA THE EXISTING SANITARY SEWER MANHOLE AT THE CORNER OF POTOMAC GREEN DRIVE AND CARPENTER DRIVE.
- SEE SHEETS SD-03 AND SD-04 FOR PROPERTY DETAILS.

NOTE:

- THE HORIZONTAL CONTROL FOR THIS PROJECT IS THE WMATA LOW DISTORTION PROJECTION SYSTEM WMATA LDP THE VERTICAL IS NAVD 88.



Client
WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

Job Title
POTOMAC YARD METRORAIL STATION

Key Plan

Drawing Title

PRELIMINARY SUBDIVISION PLAT 1 OF 4

SHEET 12 OF 38

Issue	Date	By	Chkd	Appd
11/19/2018	JIS	JD	TW	

APPROVED
SPECIAL USE PERMIT NO. _____
DEPARTMENT OF PLANNING & ZONING

DIRECTOR DATE

DEPARTMENT OF TRANSPORTATION & ENVIRONMENTAL SERVICES
SITE PLAN NO. _____

DIRECTOR DATE

CHAIRMAN, PLANNING COMMISSION DATE _____

DATE RECORDED: _____

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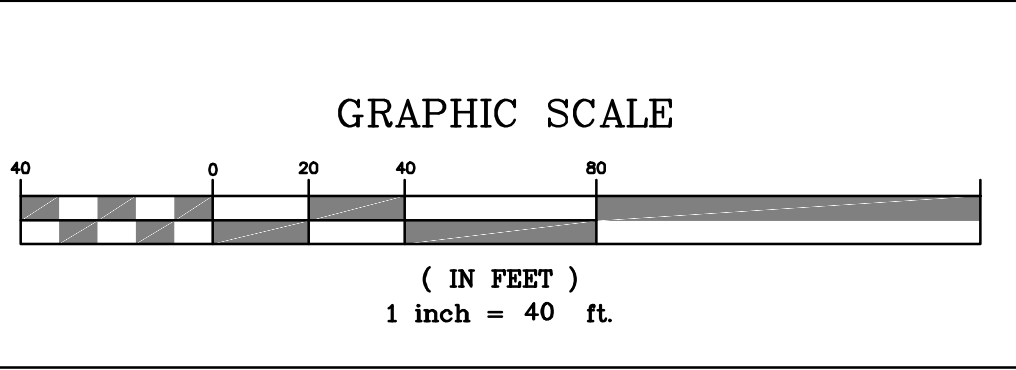
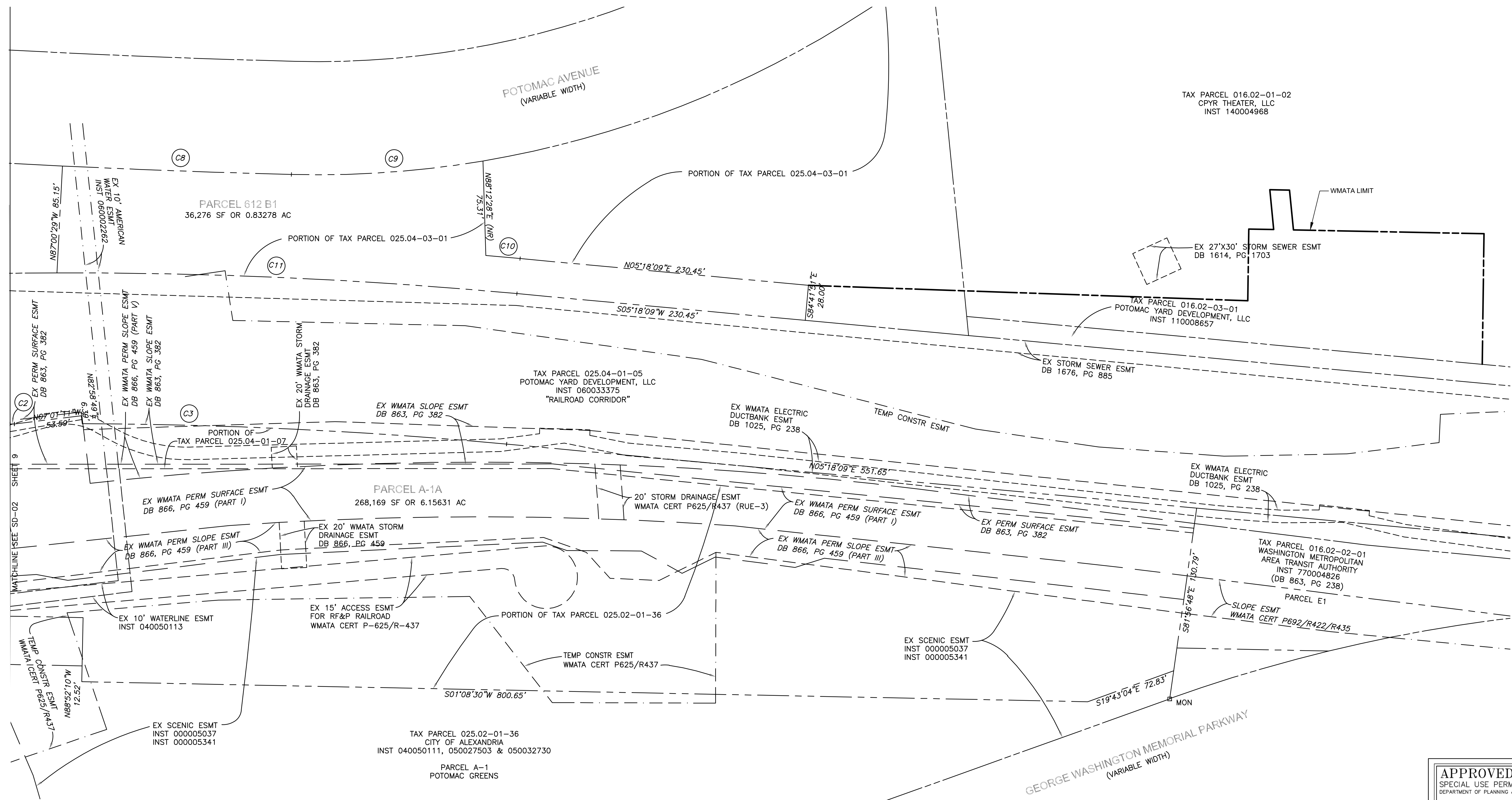
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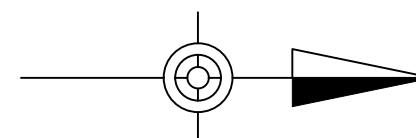
Drawing Status

PRELIMINARY DSUP

Job No **254922** Drawing No **SD-01** Issue



NOTE:
 1. THE HORIZONTAL CONTROL FOR THIS PROJECT IS THE WMATA LOW DISTORTION PROJECTION SYSTEM WMATA LDP. THE VERTICAL IS NAVD 88.



APPROVED		
SPECIAL USE PERMIT NO. _____		
DEPARTMENT OF PLANNING & ZONING		
DIRECTOR _____	DATE _____	
DEPARTMENT OF TRANSPORTATION & ENVIRONMENTAL SERVICES		
SITE PLAN NO. _____		
DIRECTOR _____	DATE _____	
CHAIRMAN, PLANNING COMMISSION _____		
DATE RECORDED _____		
INSTRUMENT NO. _____ DEED BOOK NO. _____ PAGE NO. _____		



Client
 WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

Job Title
 POTOMAC YARD METRORAIL STATION

Drawing Title
 PRELIMINARY SUBDIVISION PLAT 2 OF 4

SHEET 13 OF 37

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File Name _____

Drawing Status
PRELIMINARY DSUP

Job No **254922** Drawing No **SD-02** Issue _____

11/19/2018	JS	JD	TW
Issue	Date	By	Chkd
			Appd

TAX PARCEL 025.04-03-01
CITY OF ALEXANDRIA
INST 130026978

PARCEL 612 B
POTOMAC YARD

TAX PARCEL 025.04-01-05
POTOMAC YARD DEVELOPMENT, LLC
INST 060033375
"RAILROAD CORRIDOR"

TAX PARCEL 025.04-01-06
CITY OF ALEXANDRIA
INST 120019364

PARCEL 519
POTOMAC YARDS

TAX PARCEL 025.02-01-37
CITY OF ALEXANDRIA
INST 040050111
PARCEL A-9, POTOMAC GREENS

CEL -1
268,169 SF OR 6.15631 AC

PORTION OF TAX PARCEL 025.04-01-06
2,634 SF OR 0.06046 AC

$R=3789.83'$ $A=96.68'$
 $A=36.68'$ $S88^{\circ}24'48"W$ $7.06'$

$R=74.00'$ $A=101.22'$

$R=120.00'$ $A=70.18'$

$R=37.48'$ $A=37.48'$

$R=60.00'$ $A=28.43'$

$R=74.00'$ $A=101.22'$

$R=120.00'$ $A=70.18'$

$R=37.48'$ $A=37.48'$

$R=60.00'$ $A=28.43'$

$R=74.00'$ $A=101.22'$

$R=120.00'$ $A=70.18'$

$R=37.48'$ $A=37.48'$

$R=60.00'$ $A=28.43'$

$R=74.00'$ $A=101.22'$

$R=120.00'$ $A=70.18'$

$R=37.48'$ $A=37.48'$

$R=60.00'$ $A=28.43'$

$R=74.00'$ $A=101.22'$

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$R=60.00'$ $A=28.43'$

$R=74.00'$ $A=101.22'$

$R=120.00'$ $A=70.18'$

$R=37.48'$ $A=37.48'$

$R=60.00'$ $A=28.43'$

$R=74.00'$ $A=101.22'$

$R=120.00'$ $A=70.18'$

AREA TABULATION:

PORTION OF TM PARCEL 025.04-01-06	2,634 SF	OR	0.06046 AC
PORTION OF TM PARCEL 025.04-01-07	28,098 SF	OR	0.64504 AC
PORTION OF TM PARCEL 025.02-01-37	42,226 SF	OR	0.96938 AC
PORTION OF TM PARCEL 025.04-02-01	12,067 SF	OR	0.27702 AC
PORTION OF TM PARCEL 025.02-01-36	183,144 SF	OR	4.20441 AC
PARCEL A-1A (TOTAL)	268,169 SF	OR	6.15631 AC

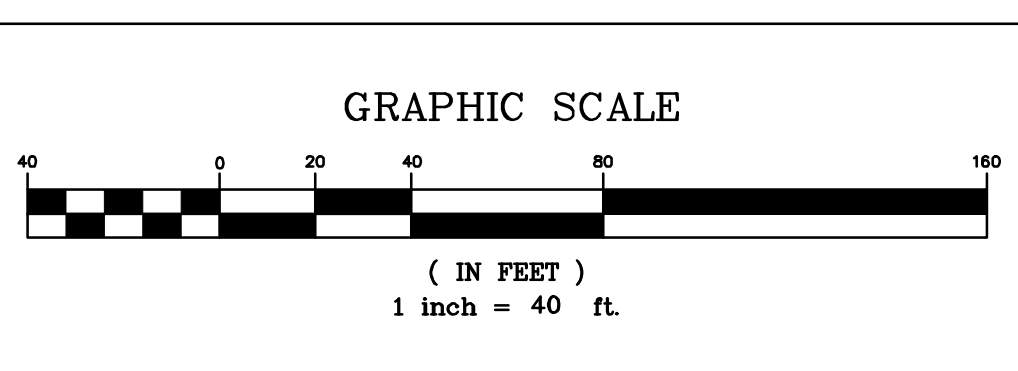
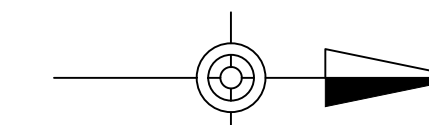
PARCEL A-1A	268,169 SF	OR	6.15631 AC
PARCEL 612 B1	35,276 SF	OR	0.83278 AC
TOTAL	304,445 SF	OR	6.98909 AC

CURVE TABLE

CURVE NO.	RADIUS	DELTA	LENGTH	TANGENT	CHD BEARING	CHORD
C1	3789.83'	01°27'42"	96.68'	48.34'	N01°24'37"W	96.68'
C2	3789.83'	00°03'06"	3.42'	1.71'	N00°39'13"W	3.42'
C3	3789.83'	05°06'51"	338.28'	169.25'	N02°44'43"W	338.17'
C4	74.00'	78°22'06"	101.22'	60.32'	S38°03'13"E	93.51'
C5	60.00'	25°14'17"	26.43'	13.43'	S26°59'28"W	26.22'
C6	120.00'	33°30'32"	70.18'	36.13'	S02°22'56"E	69.18'
C7	31.00'	84°23'56"	45.66'	28.11'	S33°28'41"W	41.65'
C8	8328.50'	01°15'15"	182.29'	91.15'	N02°06'40"E	182.29'
C9	795.00'	11°01'46"	153.04'	76.76'	N04°01'50"W	152.80'
C10	3892.83'	00°24'11"	27.38'	13.69'	S05°06'03"W	27.38'
C11	3864.83'	05°26'04"	366.58'	183.43'	S02°35'07"W	366.45'
C12	403.13'	05°20'09"	37.54'	18.79'	N05°06'36"W	37.53'

NOTE:

1. THE HORIZONTAL CONTROL FOR THIS PROJECT IS THE WMATA LOW DISTORTION PROJECTION SYSTEM WMATA LDP. THE VERTICAL IS NAVD 88.



APPROVED
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DEPARTMENT OF PLANNING & ZONING

DIRECTOR _____ DATE _____
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SITE PLAN NO. _____

DIRECTOR _____ DATE _____

CHAIRMAN, PLANNING COMMISSION _____ DATE _____

DATE RECORDED _____

INSTRUMENT NO. _____ DEED BOOK NO. _____ PAGE NO. _____



Client
WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

Job Title
POTOMAC YARD METRORAIL STATION

Key Plan

Drawing Title
PRELIMINARY SUBDIVISION PLAT 3 OF 4

SHEET 14 OF 38

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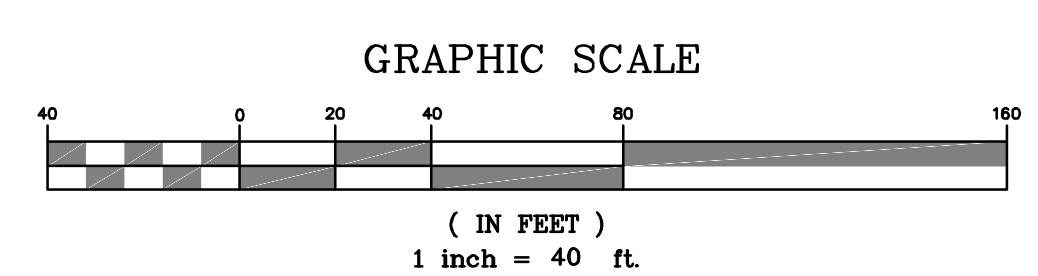
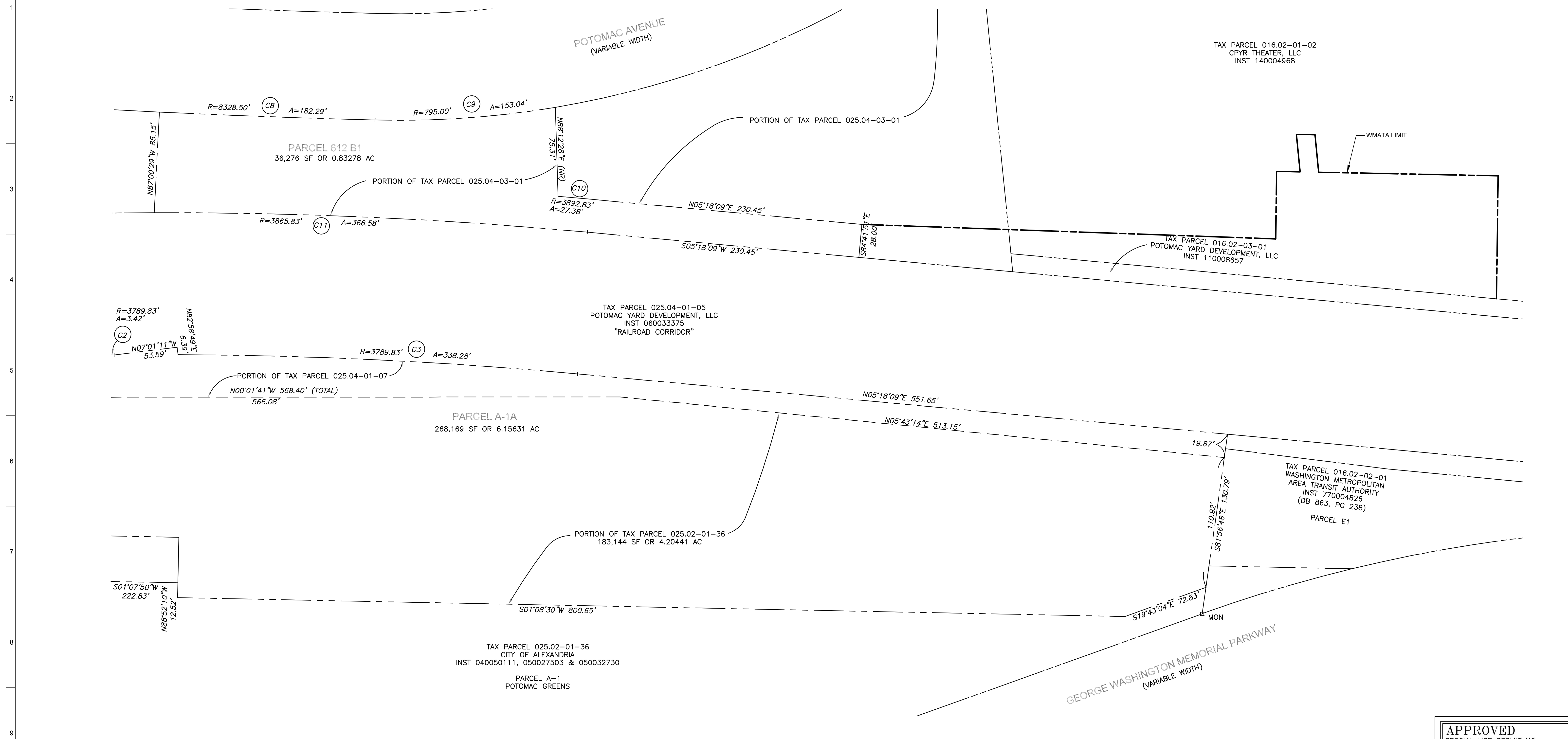
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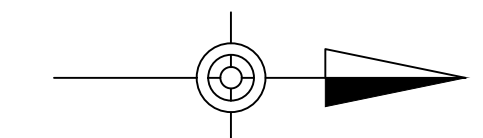
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PRELIMINARY DSUP

Job No 254922
Drawing No SD-03
Issue

11/19/2018	JS	JD	TW
Issue	Date	By	Chkd
			Appd



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DEPARTMENT OF PLANNING & ZONING		
DIRECTOR _____	DATE _____	
DEPARTMENT OF TRANSPORTATION & ENVIRONMENTAL SERVICES		
SITE PLAN NO. _____		
DIRECTOR _____	DATE _____	
CHAIRMAN, PLANNING COMMISSION _____		
DATE RECORDED _____		
INSTRUMENT NO. _____	DEED BOOK NO. _____	PAGE NO. _____



Client
WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

Job Title
POTOMAC YARD METRORAIL STATION

Key Plan

Drawing Title

PRELIMINARY SUBDIVISION PLAT
4 OF 4

SHEET 15 OF 37

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File Name

Drawing Status

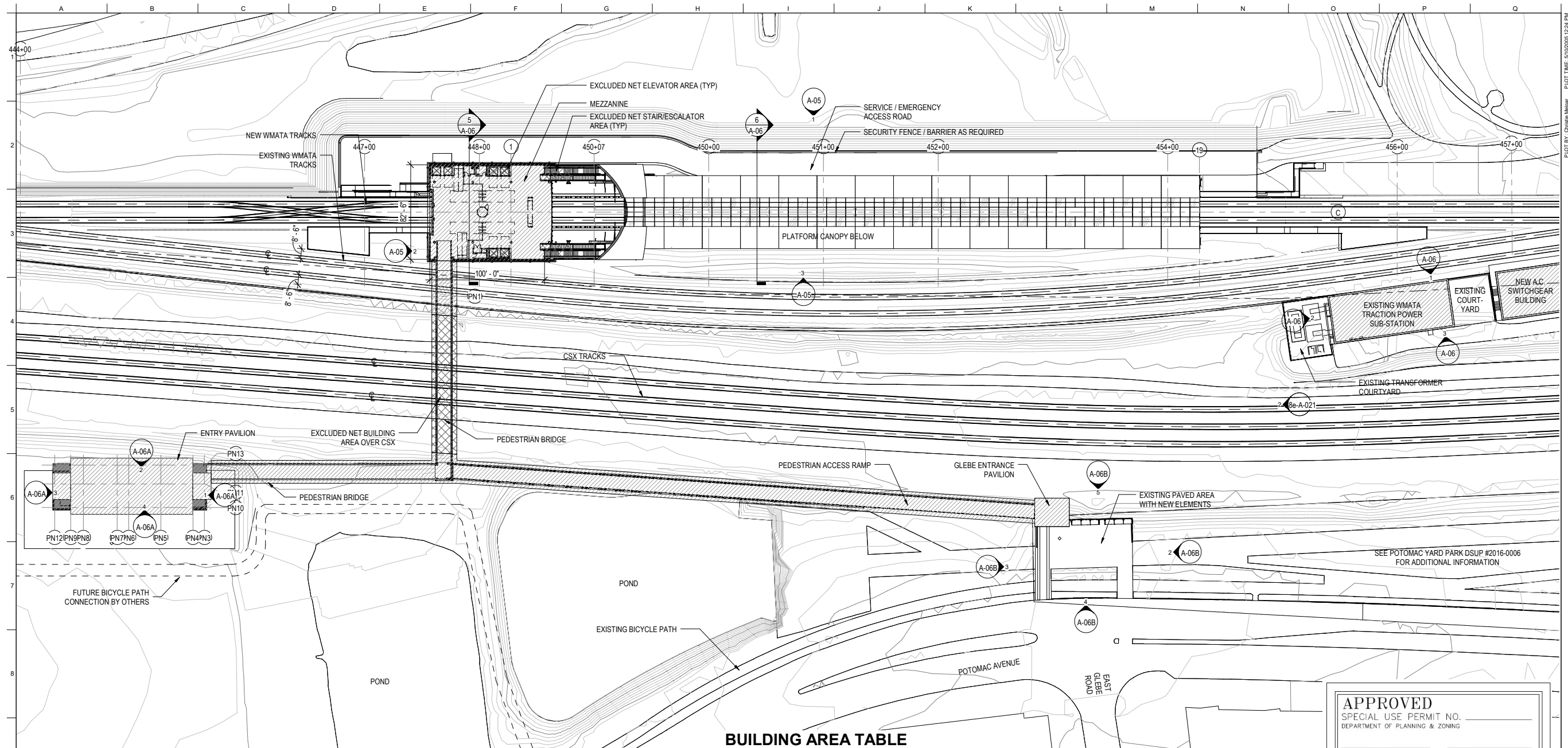
PRELIMINARY DSUP

Job No
254922

Drawing No
SD-04

Issue

11/19/2018	JS	JD	TW
Issue	Date	By	Chkd
			Appd



1 FAR PLAN DIAGRAM - MEZZANINE LEVEL
 1" = 40'-0"
 0' 10' 20' 40'

BUILDING AREA LEGEND

	GROSS BUILDING AREA
	EXCLUDED NET BUILDING AREA

PRELIM. CODE SUMMARY

RAIL STATION:
 USE GROUP: A-3, S-1
 NUMBER OF STORIES: 1
 CONSTRUCTION TYPE: IIA
 FLOOR AREA PER FLOOR: REF. FAR AREA TABLE(S)
 RAIL STATION AREA (SQFT):
 MEZZANINE: 9,096
 PLATFORM: 40,953
 SERVICE LEVEL: 9,994
 TOTAL: 60,043

BUILDING AREA TABLE

GROSS BUILDING AREA	PROPERTY EAST OF CSX (SQFT)		PROPERTY WEST OF CSX (SQFT)	
	STATION SF	AC BUILDING SF	STATION SF	AC BUILDING SF
SOUTH PED. BRIDGE / RAMP	6,606	5,650	6,606	5,650
SOUTH ENTRY PAVILION	N/A	6,194	N/A	5,423
NORTH PED. BRIDGE	1,415	N/A	1,415	N/A
NORTH PAVILION	N/A	10,050	N/A	7,775
EXISTING TRACTION POWER SUBSTATION	4,4847	N/A	4,487	N/A
TOTAL:	62,182	21,894	5,6190	18,848

NET SF OF BUILDING	PROPERTY EAST OF CSX (SQFT)		PROPERTY WEST OF CSX (SQFT)	
	STATION SF	AC BUILDING SF	STATION SF	AC BUILDING SF
SOUTH PED. BRIDGE / RAMP	6,606	5,650	6,606	5,423
SOUTH ENTRY PAVILION	N/A	5,423	N/A	5,423
NORTH PED BRIDGE SF	1,415	N/A	1,415	N/A
ENTRY PAVILION	N/A	7,775	N/A	7,775
EXISTING TRACTION POWER SUBSTATION	4,487	N/A	4,487	N/A
TOTAL:	5,6190	18,848	5,6190	18,848

FAR EXISTING	0.02	0
FAR PROPOSED	0.21	0.52

APPROVED
 SPECIAL USE PERMIT NO. _____
 DEPARTMENT OF PLANNING & ZONING

DIRECTOR _____ DATE _____

DEPARTMENT OF TRANSPORTATION & ENVIRONMENTAL SERVICES
 SITE PLAN NO. _____

DIRECTOR _____ DATE _____

CHAIRMAN, PLANNING COMMISSION _____ DATE _____

DATE RECORDED _____

INSTRUMENT NO. _____ DEED BOOK NO. _____ PAGE NO. _____

Client
WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

Job Title
POTOMAC YARD METRORAIL STATION

ARUP

77 Water Street
 New York, NY 10005
 T +1 212 896 3000
 www.arup.com

Key Plan

Drawing Title

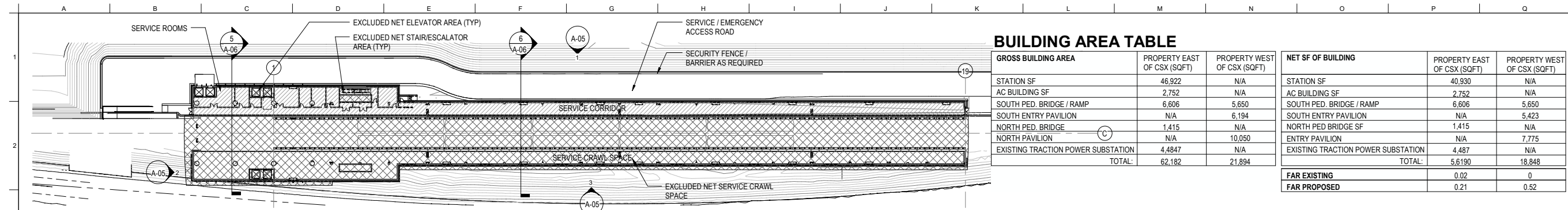
MEZZANINE LEVEL FAR DIAGRAM

SHEET 27 OF 37

Drawing Status
DSUP DRAWINGS

Job No	Drawing No	Issue
254992	A-01	27

Issue	Date	By	Chkd	Appd

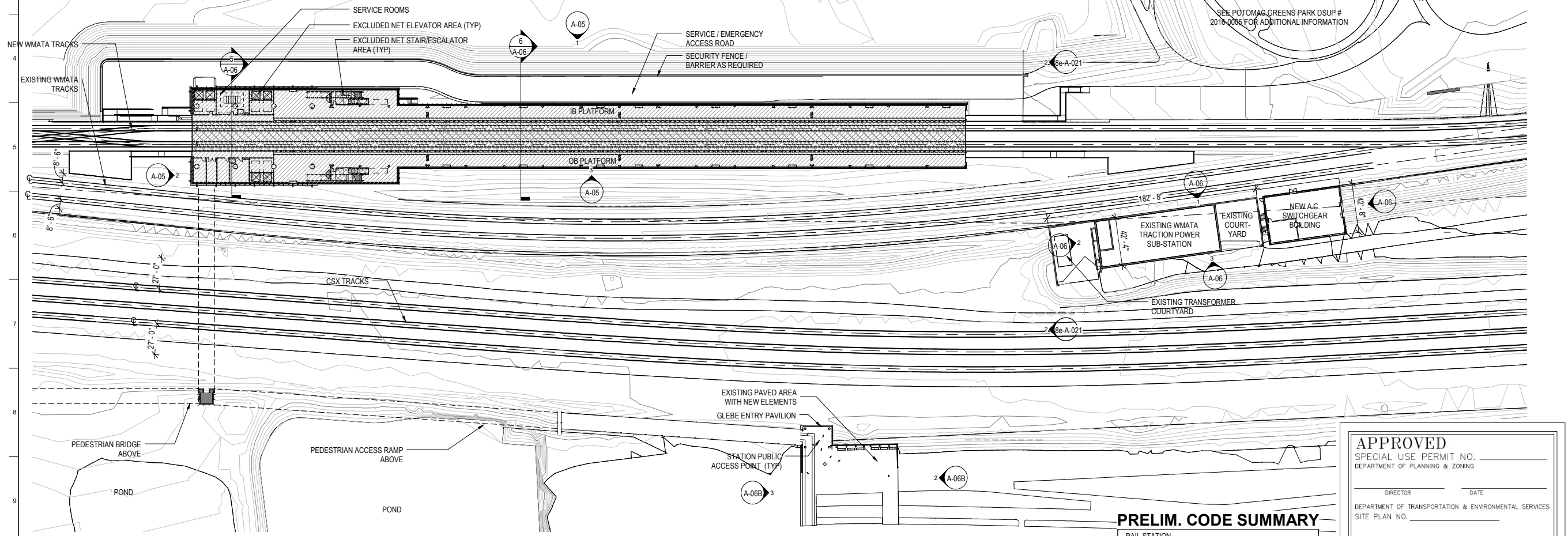


BUILDING AREA TABLE

GROSS BUILDING AREA			NET SF OF BUILDING		
	PROPERTY EAST OF CSX (SQFT)	PROPERTY WEST OF CSX (SQFT)		PROPERTY EAST OF CSX (SQFT)	PROPERTY WEST OF CSX (SQFT)
STATION SF	46,922	N/A	STATION SF	40,930	N/A
AC BUILDING SF	2,752	N/A	AC BUILDING SF	2,752	N/A
SOUTH PED. BRIDGE / RAMP	6,606	5,650	SOUTH PED. BRIDGE / RAMP	6,606	5,650
SOUTH ENTRY PAVILION	N/A	6,194	SOUTH ENTRY PAVILION	N/A	5,423
NORTH PED. BRIDGE	1,415	N/A	NORTH PED BRIDGE SF	1,415	N/A
NORTH PAVILION	N/A	10,050	ENTRY PAVILION	N/A	7,775
EXISTING TRACTION POWER SUBSTATION	4,4847	N/A	EXISTING TRACTION POWER SUBSTATION	4,487	N/A
TOTAL:	62,182	21,894	TOTAL:	5,6190	18,848
FAR EXISTING			FAR EXISTING		
0.02			0		
FAR PROPOSED			FAR PROPOSED		
0.21			0.52		

2 FAR PLAN DIAGRAM - LOWER LEVEL

1" = 40'-0"
0' 10' 20' 40'



1 FAR PLAN DIAGRAM - PLATFORM LEVEL

1" = 40'-0"
0' 10' 20' 40'

BUILDING AREA LEGEND

- GROSS BUILDING AREA
- EXCLUDED NET BUILDING AREA

PRELIM. CODE SUMMARY

RAIL STATION -
 USE GROUP: A-3, S-1
 NUMBER OF STORIES: 1
 CONSTRUCTION TYPE: IIIA
 FLOOR AREA PER FLOOR: REF. FAR AREA TABLE(S)
 RAIL STATION AREA (SQ/FT):
 MEZZANINE: 9,096
 PLATFORM: 40,953
 SERVICE LEVEL: 9,994
 TOTAL: 60,043

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 DEPARTMENT OF PLANNING & ZONING

DIRECTOR _____ DATE _____

DEPARTMENT OF TRANSPORTATION & ENVIRONMENTAL SERVICES
 SITE PLAN NO. _____

DIRECTOR _____ DATE _____

CHAIRMAN, PLANNING COMMISSION _____ DATE _____

DATE RECORDED _____

INSTRUMENT NO. _____ DEED BOOK NO. _____ PAGE NO. _____

Client
WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

Job Title
POTOMAC YARD METRORAIL STATION

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Key Plan

Drawing Title

PLATFORM LEVEL FAR DIAGRAM

SHEET 28 OF 37

Scale
 As Indicated

Drawing Status
DSUP DRAWINGS

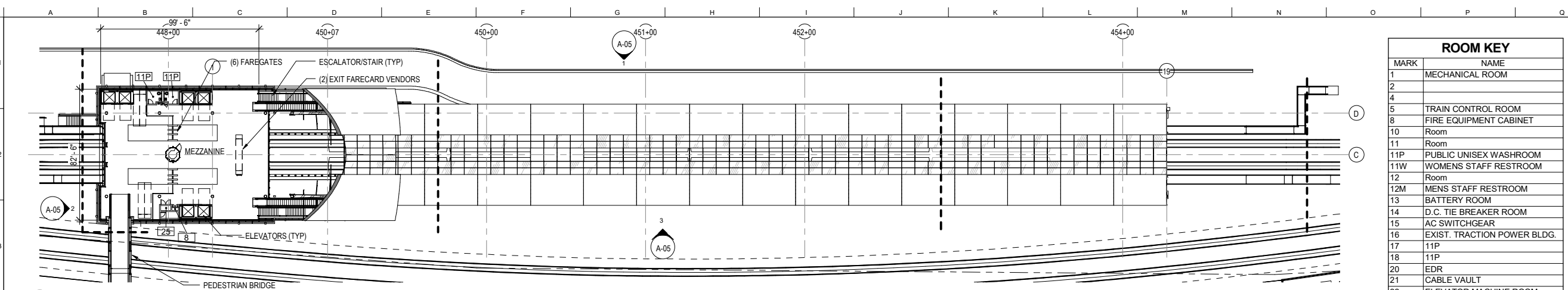
Job No
254992

Drawing No
A-02

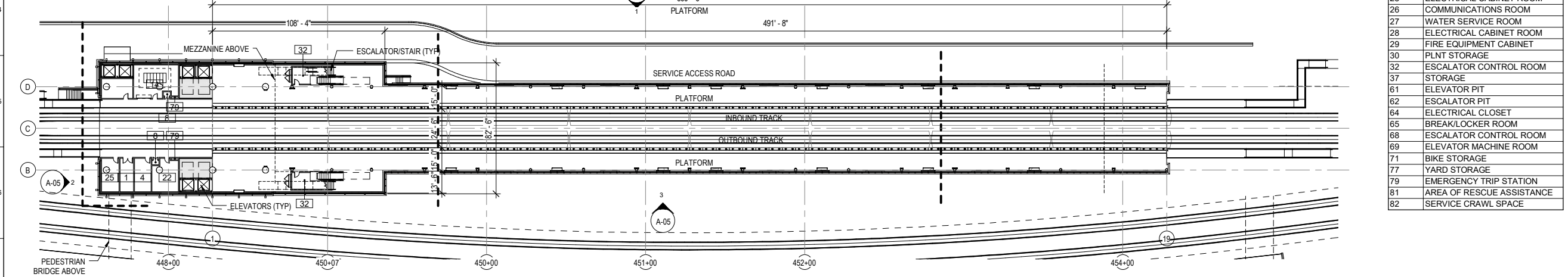
Issue
28

Issue	Date	By	Chkd	Appd

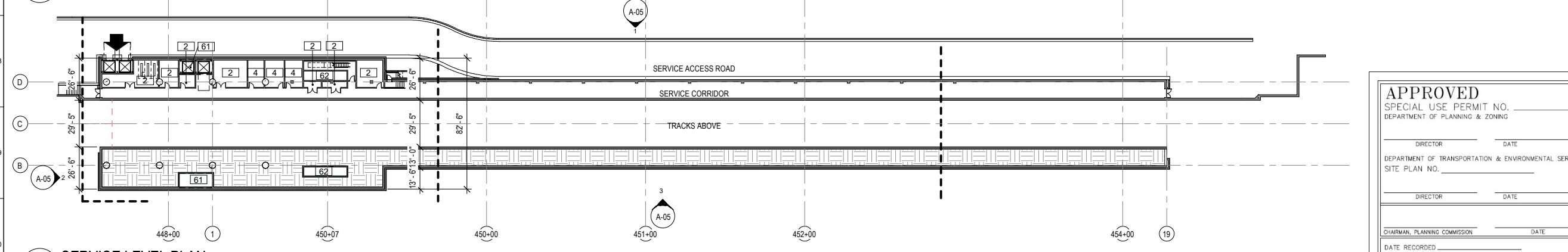
PLOT BY: Chris Megar PLOT TIME: 07/02/2005 12:24 PM



1 MEZZANINE PLAN
1" = 30'-0"



2 PLATFORM PLAN
1" = 30'-0"



3 SERVICE LEVEL PLAN
1" = 30'-0"

ROOM KEY	
MARK	NAME
1	MECHANICAL ROOM
2	
4	
5	TRAIN CONTROL ROOM
8	FIRE EQUIPMENT CABINET
10	Room
11	Room
11P	PUBLIC UNISEX WASHROOM
11W	WOMENS STAFF RESTROOM
12	Room
12M	MENS STAFF RESTROOM
13	BATTERY ROOM
14	D.C. TIE BREAKER ROOM
15	AC SWITCHGEAR
16	EXIST. TRACTION POWER BLDG.
17	11P
18	11P
20	EDR
21	CABLE VAULT
22	ELEVATOR MACHINE ROOM
23	EJECTOR ROOM
24	CART STORAGE
25	ELECTRICAL CABINET ROOM
26	COMMUNICATIONS ROOM
27	WATER SERVICE ROOM
28	ELECTRICAL CABINET ROOM
29	FIRE EQUIPMENT CABINET
30	PLNT STORAGE
32	ESCALATOR CONTROL ROOM
37	STORAGE
61	ELEVATOR PIT
62	ESCALATOR PIT
64	ELECTRICAL CLOSET
65	BREAK/LOCKER ROOM
68	ESCALATOR CONTROL ROOM
69	ELEVATOR MACHINE ROOM
71	BIKE STORAGE
77	YARD STORAGE
79	EMERGENCY TRIP STATION
81	AREA OF RESCUE ASSISTANCE
82	SERVICE CRAWL SPACE

APPROVED
SPECIAL USE PERMIT NO. _____
DEPARTMENT OF PLANNING & ZONING

DIRECTOR _____ DATE _____

DEPARTMENT OF TRANSPORTATION & ENVIRONMENTAL SERVICES
SITE PLAN NO. _____

DIRECTOR _____ DATE _____

CHAIRMAN, PLANNING COMMISSION _____ DATE _____

DATE RECORDED _____

INSTRUMENT NO. _____ DEED BOOK NO. _____ PAGE NO. _____

Client
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Job Title
POTOMAC YARD METRORAIL STATION

ARUP

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Scale
1" = 30'-0"

Drawing Status
DSUP DRAWINGS

Job No. 254992 Drawing No. A-03 Issue 29

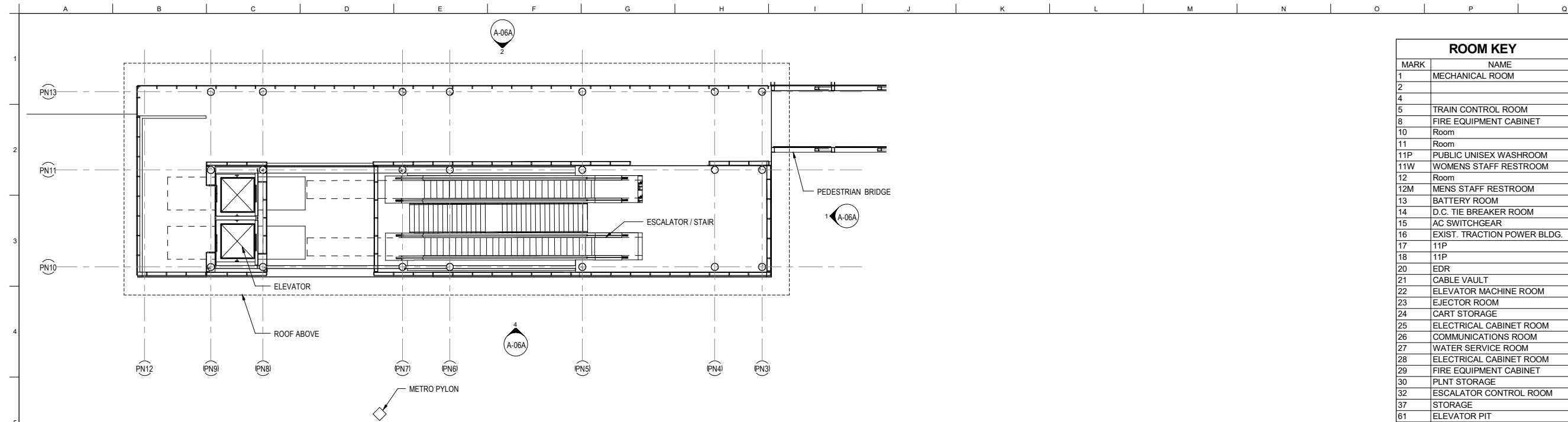
Key Plan

Drawing Title

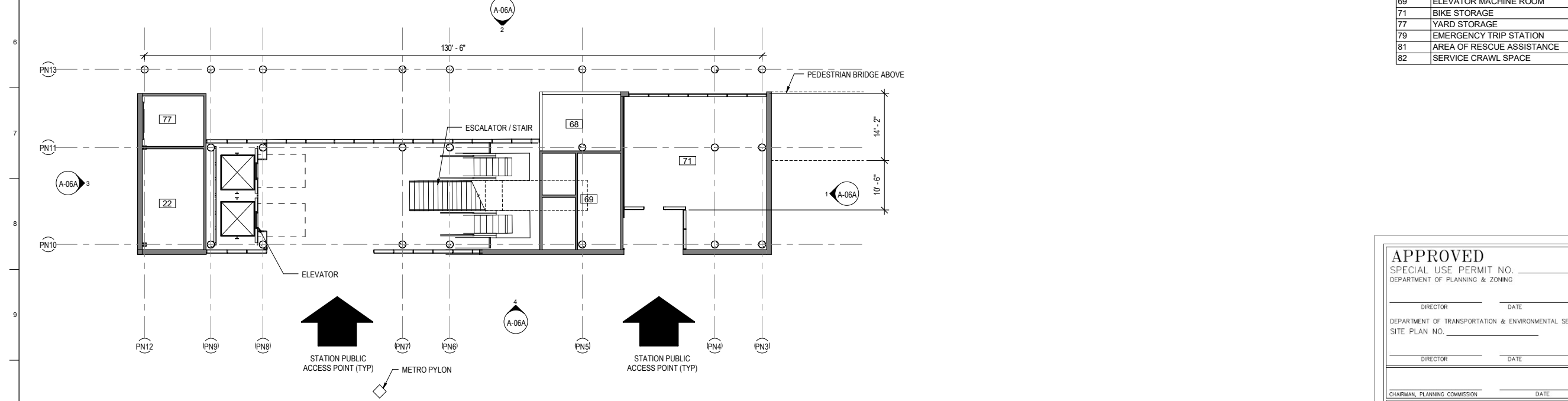
STATION FLOOR PLANS

SHEET 29 OF 37

Issue	Date	By	Chkd	Appd



1 ENTRANCE PAVILION PLAN AT MEZZANINE LEVEL
 1" = 10'-0"



2 ENTRANCE PAVILION PLAN AT GROUND LEVEL
 1" = 10'-0"

ROOM KEY	
MARK	NAME
1	MECHANICAL ROOM
2	
4	
5	TRAIN CONTROL ROOM
8	FIRE EQUIPMENT CABINET
10	Room
11	Room
11P	PUBLIC UNISEX WASHROOM
11W	WOMENS STAFF RESTROOM
12	Room
12M	MENS STAFF RESTROOM
13	BATTERY ROOM
14	D.C. TIE BREAKER ROOM
15	AC SWITCHGEAR
16	EXIST. TRACTION POWER BLDG.
17	11P
18	11P
20	EDR
21	CABLE VAULT
22	ELEVATOR MACHINE ROOM
23	EJECTOR ROOM
24	CART STORAGE
25	ELECTRICAL CABINET ROOM
26	COMMUNICATIONS ROOM
27	WATER SERVICE ROOM
28	ELECTRICAL CABINET ROOM
29	FIRE EQUIPMENT CABINET
30	PLNT STORAGE
32	ESCALATOR CONTROL ROOM
37	STORAGE
61	ELEVATOR PIT
62	ESCALATOR PIT
64	ELECTRICAL CLOSET
65	BREAK/LOCKER ROOM
68	ESCALATOR CONTROL ROOM
69	ELEVATOR MACHINE ROOM
71	BIKE STORAGE
77	YARD STORAGE
79	EMERGENCY TRIP STATION
81	AREA OF RESCUE ASSISTANCE
82	SERVICE CRAWL SPACE

APPROVED
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 DEPARTMENT OF PLANNING & ZONING

DIRECTOR _____ DATE _____

DEPARTMENT OF TRANSPORTATION & ENVIRONMENTAL SERVICES
 SITE PLAN NO. _____

DIRECTOR _____ DATE _____

CHAIRMAN, PLANNING COMMISSION _____ DATE _____

DATE RECORDED _____

INSTRUMENT NO. _____ DEED BOOK NO. _____ PAGE NO. _____

Client
WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

Job Title
POTOMAC YARD METRORAIL STATION

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Key Plan

Drawing Title

ENTRANCE PAVILION

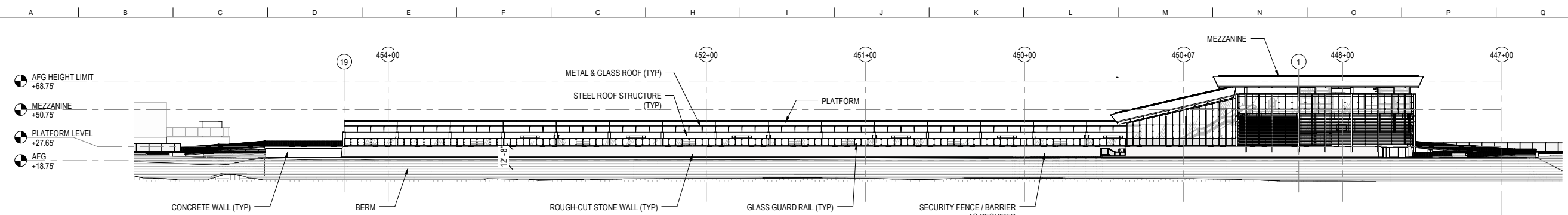
SHEET 30 OF 37

Scale
 1" = 10'-0"

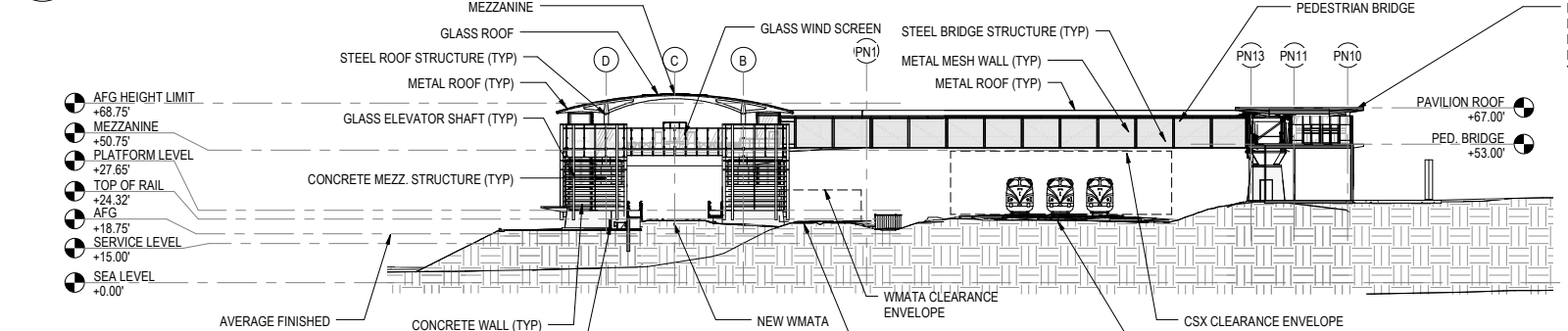
Drawing Status
DSUP DRAWINGS

Job No. 254992 Drawing No. A-04 Issue 30

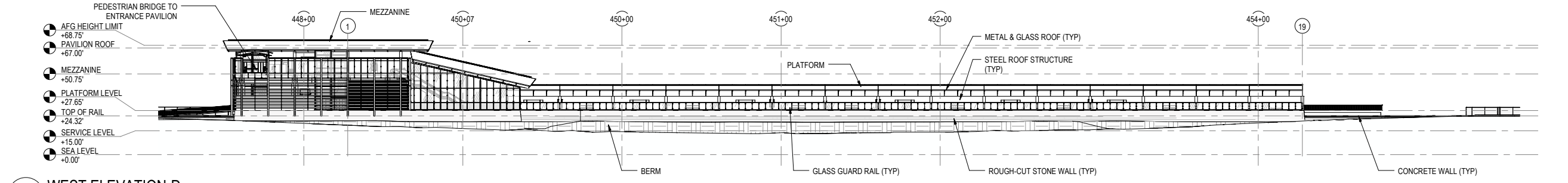
Issue	Date	By	Chkd	Appd



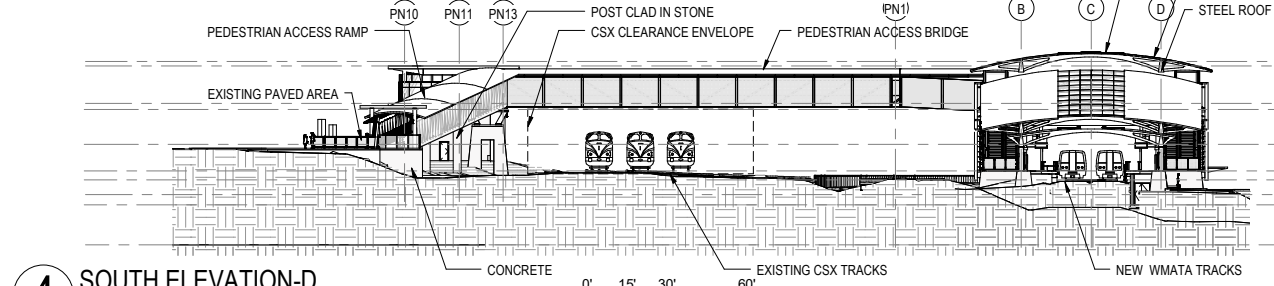
1 EAST ELEVATION-D
1" = 30'-0"



2 NORTH ELEVATION-D
1" = 30'-0"



3 WEST ELEVATION-D
1" = 30'-0"



4 SOUTH ELEVATION-D
1" = 30'-0"

ENVIRONMENTAL BUILDING NARRATIVE

A RESOLUTION PASSED BY THE WASHINGTON METROPOLITAN AREA TRANSITS AUTHORITY (WMATA) BOARD OF DIRECTORS REQUIRES ALL NEW FACILITIES TO BE DESIGNED AND CONSTRUCTED IN A MANNER THAT WILL ACHIEVE A MINIMUM LEED SILVER CERTIFICATION AS DEFINED UNDER THE LATEST EDITION OF THE US GREEN BUILDING COUNCIL (USGBC) FOR NEW CONSTRUCTION.

APPROVED
SPECIAL USE PERMIT NO. _____
DEPARTMENT OF PLANNING & ZONING

DIRECTOR _____ DATE _____

DEPARTMENT OF TRANSPORTATION & ENVIRONMENTAL SERVICES
SITE PLAN NO. _____

DIRECTOR _____ DATE _____

CHAIRMAN, PLANNING COMMISSION _____ DATE _____

DATE RECORDED _____

INSTRUMENT NO. _____ DEED BOOK NO. _____ PAGE NO. _____

Client
WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

Job Title
POTOMAC YARD METRORAIL STATION

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Key Plan

Drawing Title

BUILDING ELEVATIONS

SHEET 31 OF 37

Scale
1" = 30'-0"

File Name

Drawing Status

DSUP DRAWINGS

Job No

254992

Drawing No

A-05

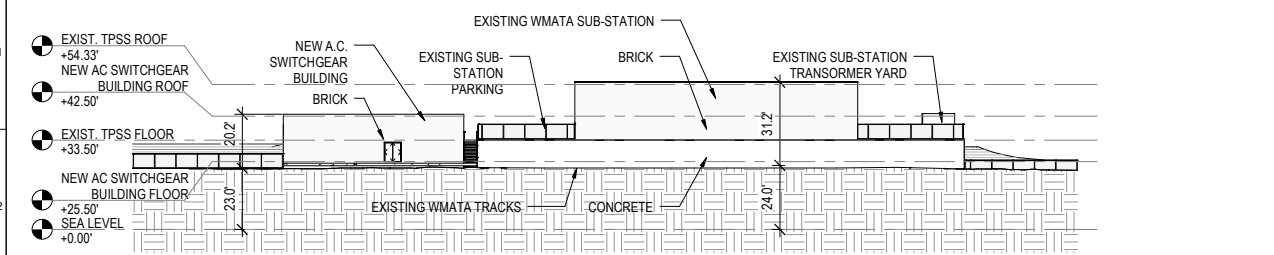
Issue

31

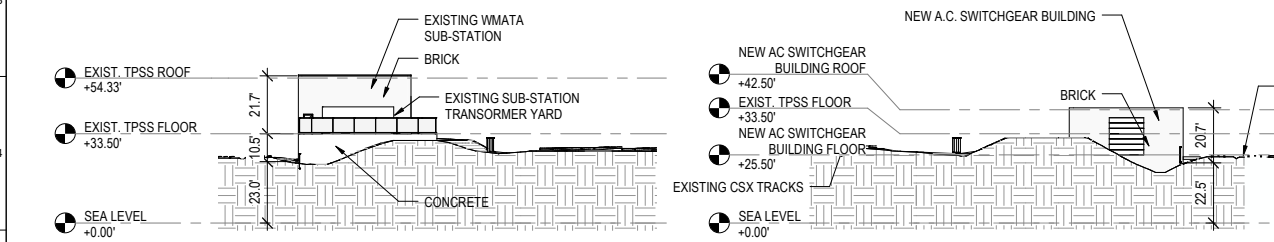
Issue	Date	By	Chkd	Appd

PLOT BY: Chris Megar PLOT TIME: 07/06/2008 12:24 PM

A B C D E F G H I J K L M N O P Q



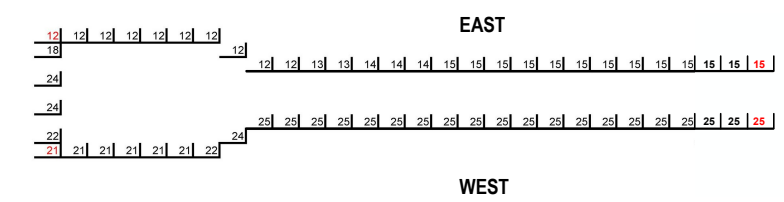
1 SUB-STATION EAST ELEVATION
1" = 30'-0"



2 SUB-STATION NORTH ELEVATION
1" = 30'-0"

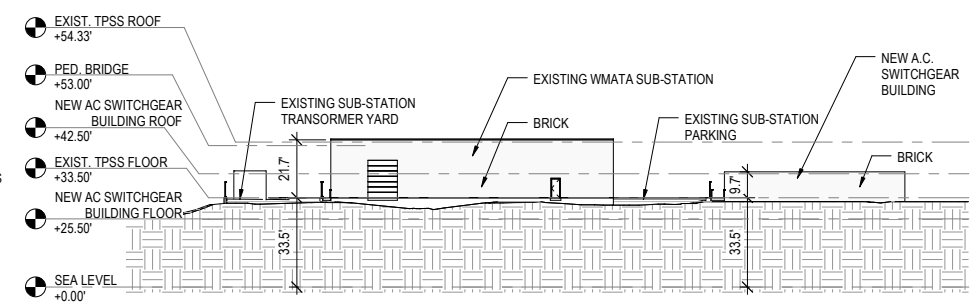
4 SUB-STATION SOUTH ELEVATION
1" = 30'-0"

**AVERAGE FINISHED GRADE:
ELEVATION LOCATION PLAN**

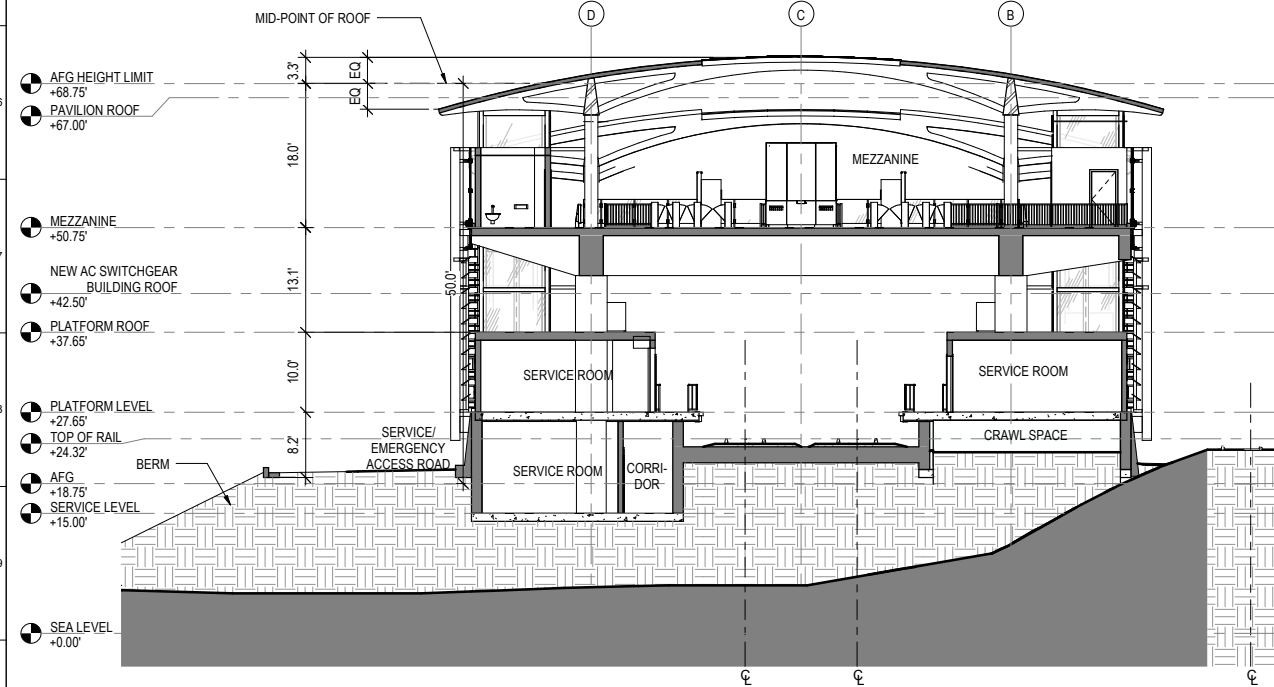


**AVERAGE FINISHED GRADE:
CALCULATION TABLE**

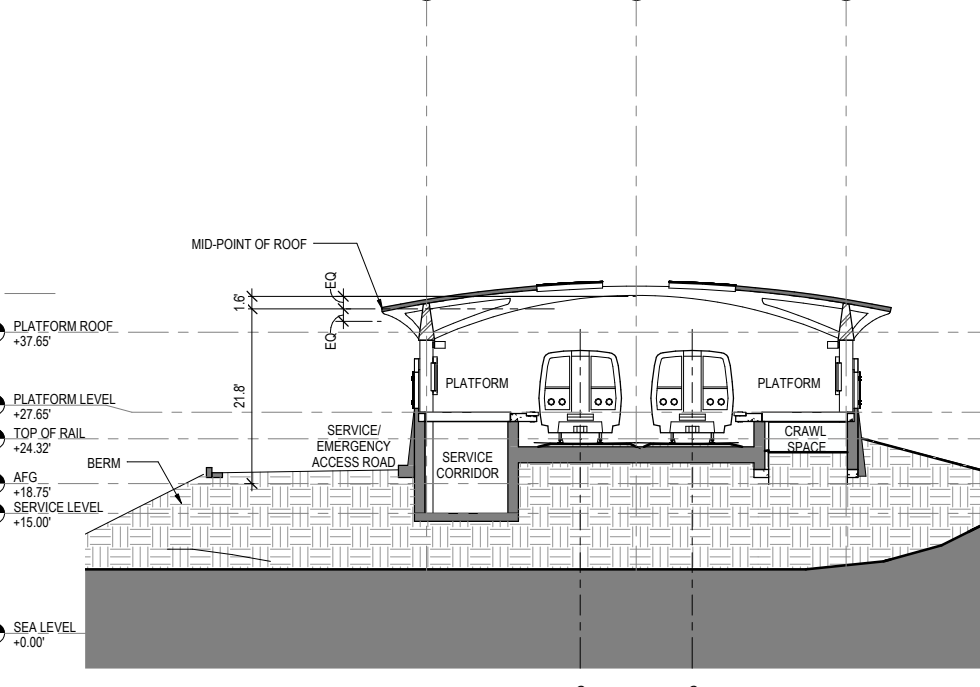
	DISTANCE	GRADE
1	0	15
2	20	15
3	40	15
4	60	15
5	80	15
6	100	15
7	120	15
8	140	15
9	160	15
10	180	15
11	200	15
12	220	14.8
13	240	14.4
14	260	14
15	280	13.6
16	300	13.2
17	320	12.8
18	340	12.4
19	360	12
20	380	12
21	400	12
22	420	12
23	440	12
24	460	12
25	480	12
26	500	12
27	520	12
28	540	17.75
29	560	23.5
30	580	23.5
31	600	22
32	620	20.5
33	640	20.7
34	660	20.9
35	680	21
36	700	21.1
37	720	21.3
38	740	21.5
39	760	24
40	780	24.5
41	800	24.5
42	820	24.5
43	840	24.5
44	860	24.5
45	880	24.5
46	900	24.5
47	920	24.5
48	940	24.5
49	960	24.5
50	980	24.5
51	1000	24.5
52	1020	24.5
53	1040	24.5
54	1060	24.5
55	1080	24.5
56	1100	24.5
57	1120	23
58	1140	21.5
Total	18,740.52	



3 SUB-STATION WEST ELEVATION
1" = 30'-0"



5 MEZZANINE CROSS SECTION
1" = 10'-0"



6 PLATFORM CROSS SECTION
1" = 10'-0"

APPROVED
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DEPARTMENT OF PLANNING & ZONING

DIRECTOR _____ DATE _____

DEPARTMENT OF TRANSPORTATION & ENVIRONMENTAL SERVICES
SITE PLAN NO. _____

DIRECTOR _____ DATE _____

CHAIRMAN, PLANNING COMMISSION _____ DATE _____

DATE RECORDED _____

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Client
WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

Job Title
POTOMAC YARD METRORAIL STATION

ARUP

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Key Plan

Drawing Title

BUILDING ELEVATION & SECTIONS

SHEET 32 OF 37

Drawing Status
DSUP DRAWINGS

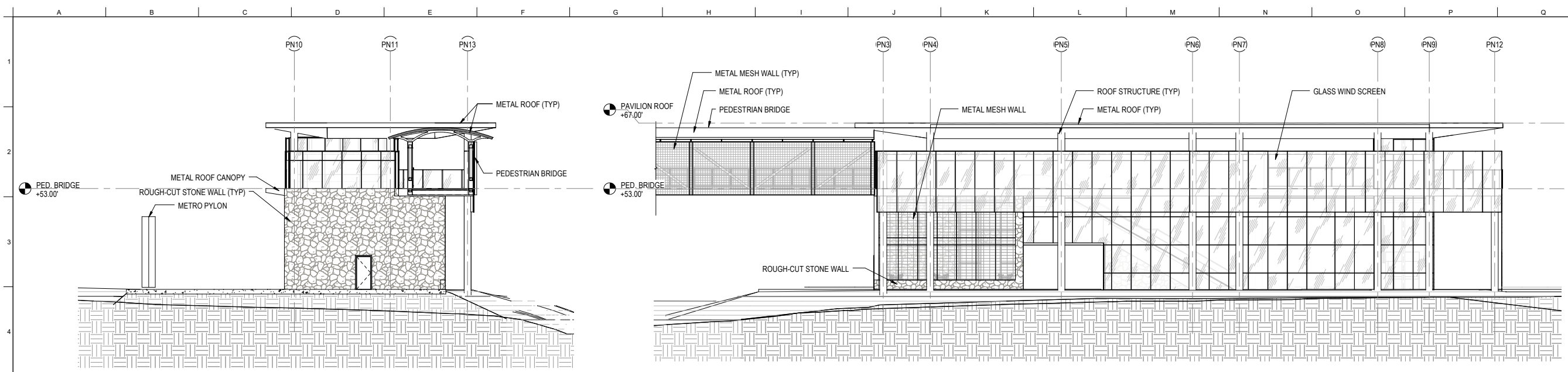
Job No
254992

Drawing No
A-06

Issue
32

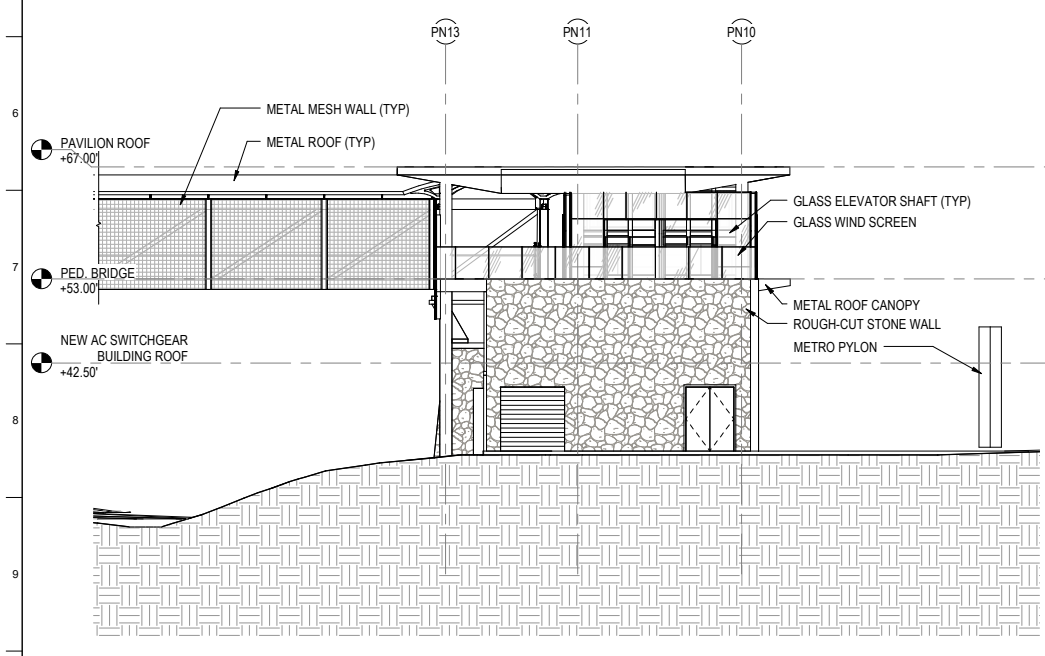
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PLOT BY: Chris Major PLOT TIME: 07/06/2005 12:24 PM

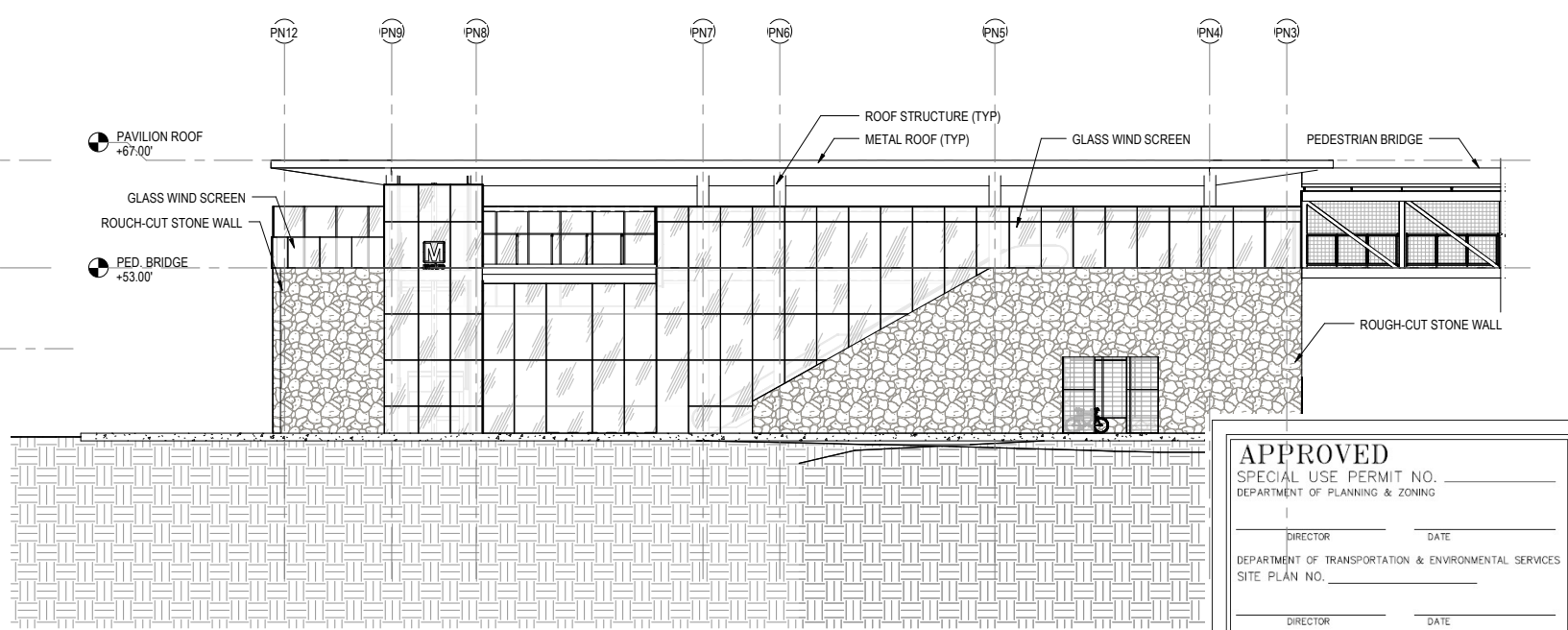


1 ENTRANCE PAVILION NORTH ELEVATION
 1" = 10'-0"
 0' 25' 50' 100'

2 ENTRANCE PAVILION WEST ELEVATION
 1" = 10'-0"
 0' 25' 50' 100'



3 ENTRANCE PAVILION SOUTH ELEVATION
 1" = 10'-0"
 0' 25' 50' 100'



4 ENTRANCE PAVILION EAST ELEVATION
 1" = 10'-0"
 0' 25' 50' 100'

APPROVED
 SPECIAL USE PERMIT NO. _____
 DEPARTMENT OF PLANNING & ZONING

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 SITE PLAN NO. _____

DIRECTOR _____ DATE _____

CHAIRMAN, PLANNING COMMISSION _____ DATE _____

DATE RECORDED _____

INSTRUMENT NO. _____ DEED BOOK NO. _____ PAGE NO. _____

Client
WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

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Key Plan

Drawing Title

ENTRANCE PAVILION ELEVATIONS

SHEET 33 OF 37

Scale
 1" = 10'-0"

File Name

Drawing Status
DSUP DRAWINGS

Job No

254992

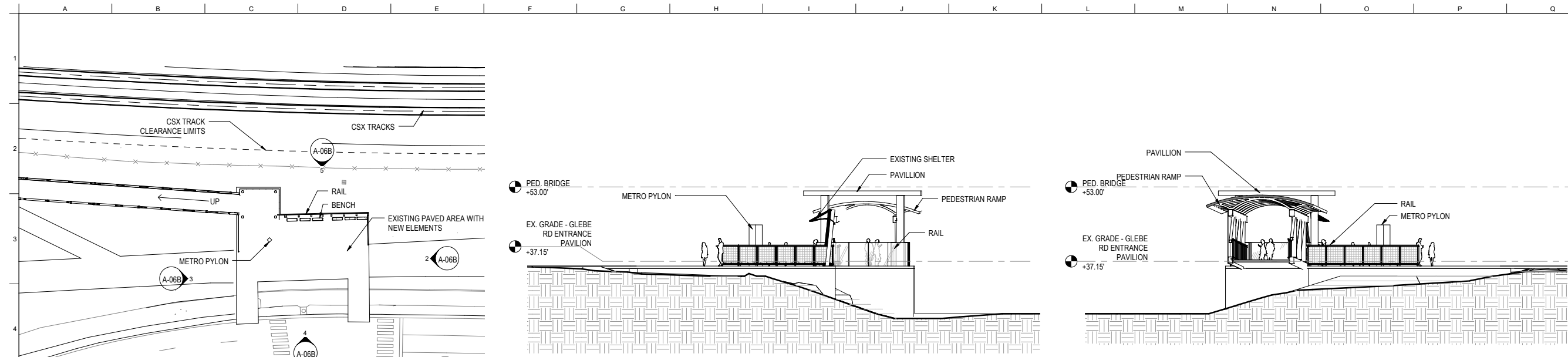
Drawing No

A-06A

Issue

33

Issue	Date	By	Chkd	Appd



1 GLEBE PAVILION PLAN AT GROUND LEVEL
 1" = 30'-0"
 0' 15' 30' 60'

2 GLEBE PAVILION NORTH ELEVATION
 1" = 10'-0"
 0' 25' 50' 100'

3 GLEBE PAVILION SOUTH ELEVATION
 1" = 10'-0"
 0' 25' 50' 100'

4 GLEBE PAVILION EAST ELEVATION
 1" = 30'-0"
 0' 15' 30' 60'

5 GLEBE PAVILION WEST ELEVATION
 1" = 30'-0"
 0' 15' 30' 60'

APPROVED		
SPECIAL USE PERMIT NO. _____		
DEPARTMENT OF PLANNING & ZONING		
DIRECTOR _____	DATE _____	
DEPARTMENT OF TRANSPORTATION & ENVIRONMENTAL SERVICES		
SITE PLAN NO. _____		
DIRECTOR _____	DATE _____	
CHAIRMAN, PLANNING COMMISSION _____ DATE _____		
DATE RECORDED _____		
INSTRUMENT NO. _____	DEED BOOK NO. _____	PAGE NO. _____

Client
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Job Title
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Key Plan _____

Drawing Title _____

GLEBE PAVILION

SHEET 34 OF 37

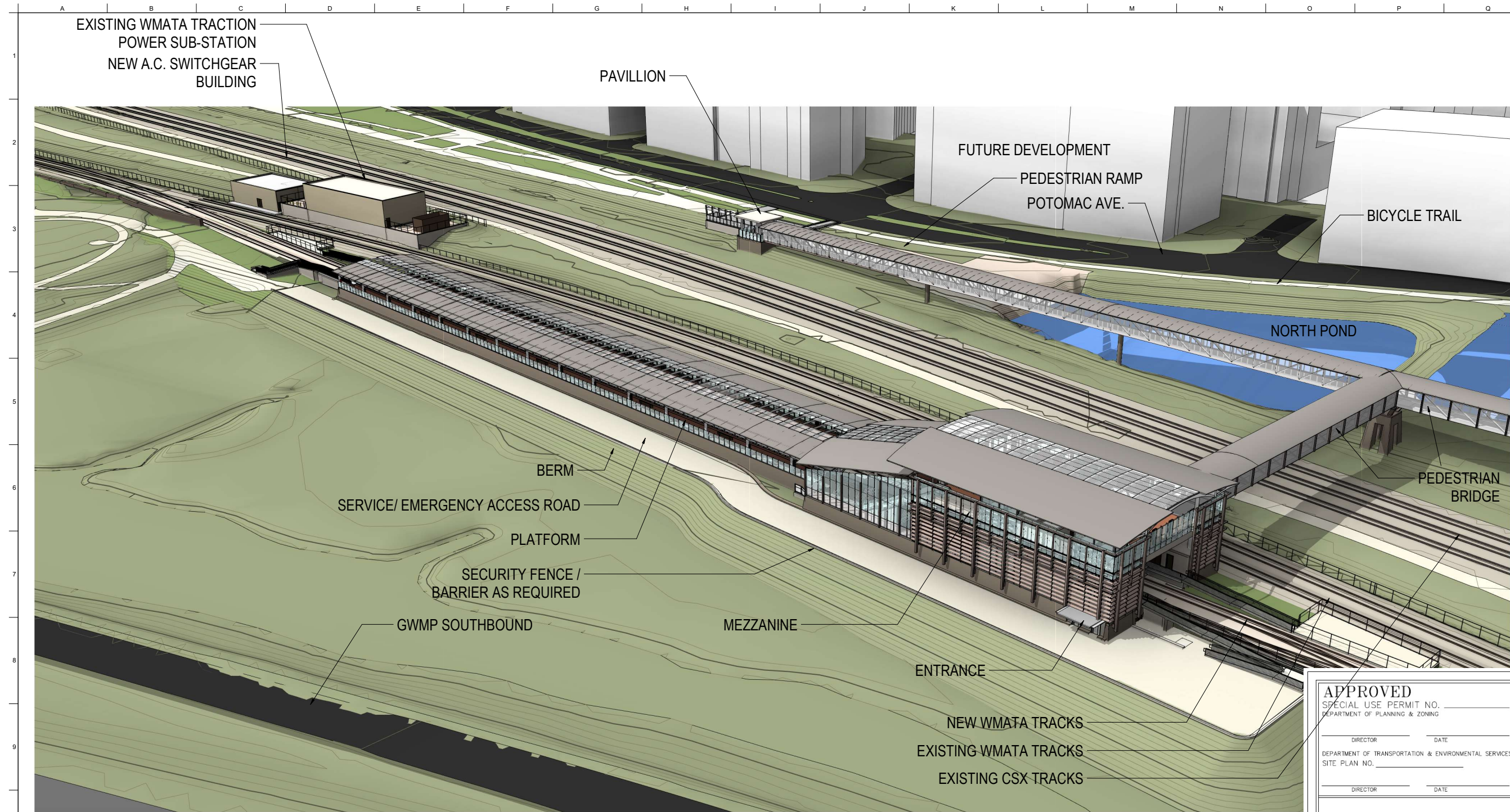
Scale
 As Indicated
 File Name _____
 Drawing Status
DSUP DRAWINGS

Job No
254992

Drawing No
A-06B

Issue
34

Issue	Date	By	Chkd	Appd



1
2
3
4
5
6
7
8
9
10

A B C D E F G H I J K L M N O P Q

PLOT BY: Chris Megar PLOT TIME: 5/10/2005 12:24 PM

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DEPARTMENT OF PLANNING & ZONING

DIRECTOR _____ DATE _____

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DIRECTOR _____ DATE _____

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Drawing Title

OVERHEAD PERSPECTIVE

SHEET 35 OF 37

File Name

Drawing Status
DSUP DRAWINGS

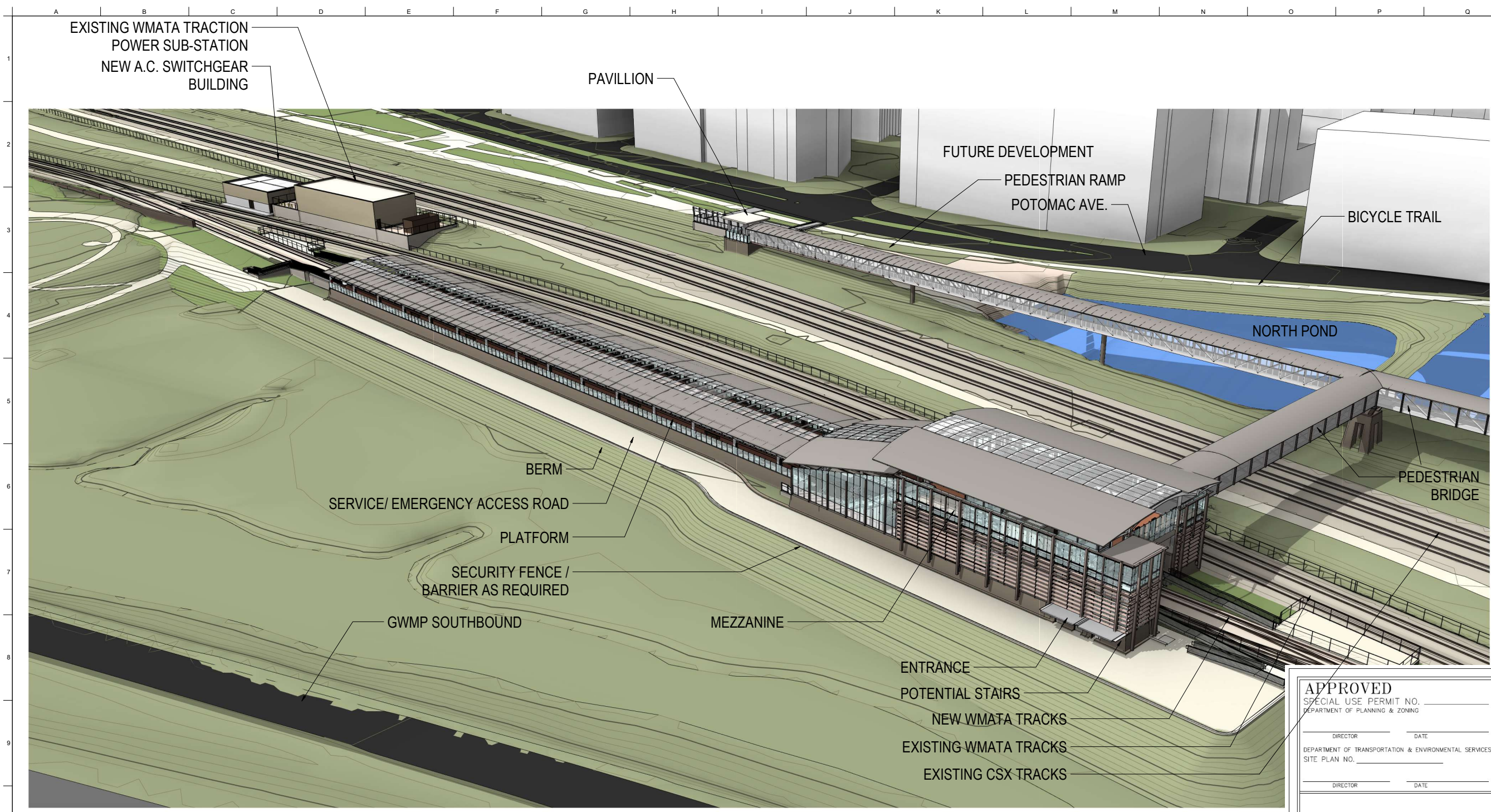
Job No
254992

Drawing No
A-07

Issue
35

Issue	Date	By	Chkd	Appd

PLOT BY: Chris Megar PLOT TIME: 07/02/2005 12:24 PM



1
2
3
4
5
6
7
8
9
10

A B C D E F G H I J K L M N O P Q

APPROVED
SPECIAL USE PERMIT NO. _____
DEPARTMENT OF PLANNING & ZONING

DIRECTOR _____ DATE _____

DEPARTMENT OF TRANSPORTATION & ENVIRONMENTAL SERVICES
SITE PLAN NO. _____

DIRECTOR _____ DATE _____

CHAIRMAN, PLANNING COMMISSION _____ DATE _____

DATE RECORDED _____

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Key Plan

Drawing Title

OVERHEAD PERSPECTIVE

SHEET 35 OF 37

Stair Option

Drawing Status

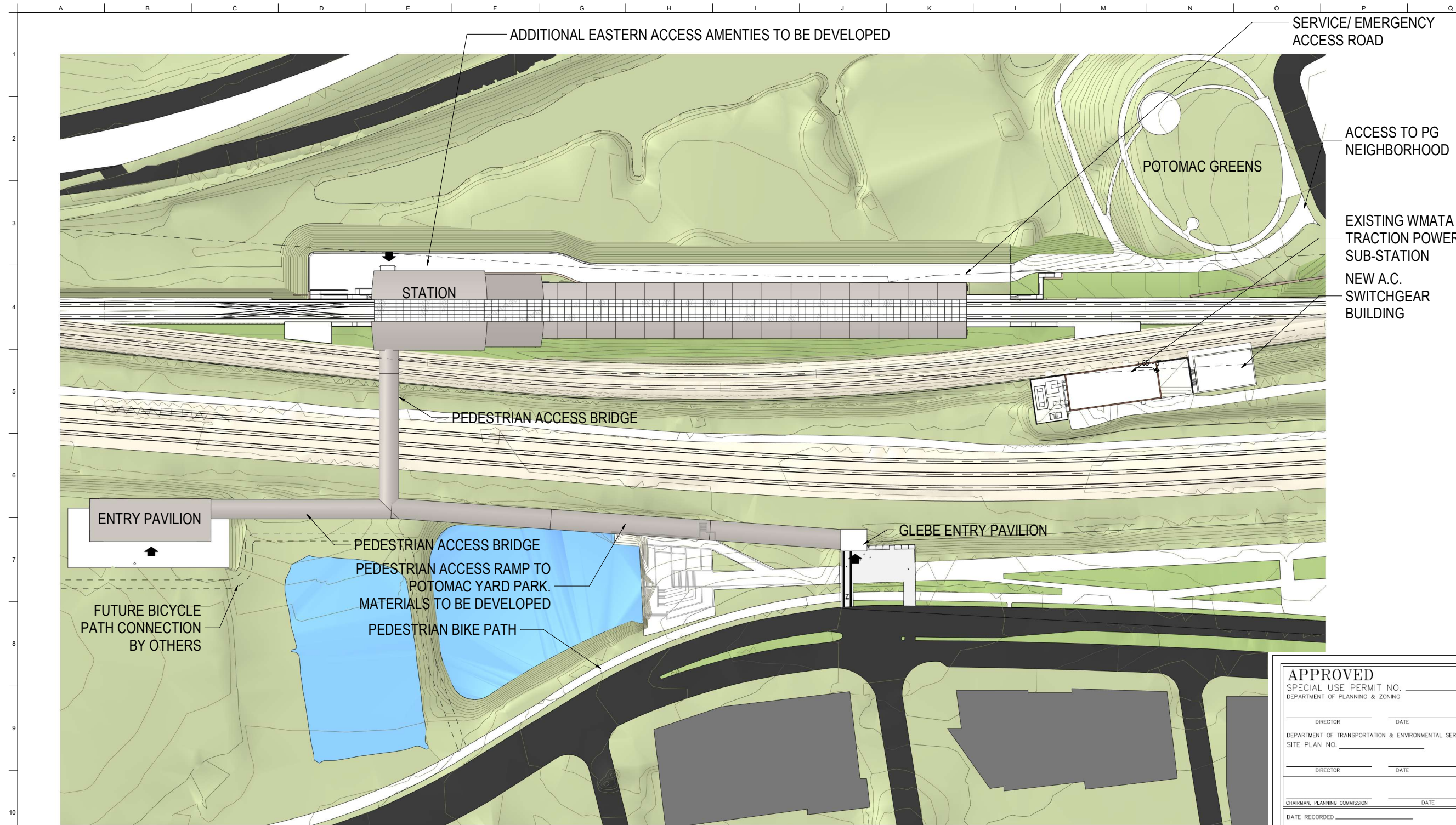
DSUP DRAWINGS

Job No
254992

Drawing No
XX

Issue
35A

Issue	Date	By	Chkd	Appd



1
2
3
4
5
6
7
8
9
10

A B C D E F G H I J K L M N O P Q

PLOT BY: Chris Megar PLOT TIME: 07/02/2005 12:24 PM



APPROVED	
SPECIAL USE PERMIT NO. _____	
DEPARTMENT OF PLANNING & ZONING	
DIRECTOR _____	DATE _____
DEPARTMENT OF TRANSPORTATION & ENVIRONMENTAL SERVICES	
SITE PLAN NO. _____	
DIRECTOR _____	DATE _____
CHAIRMAN, PLANNING COMMISSION _____	
DATE RECORDED _____	
INSTRUMENT NO. _____	DEED BOOK NO. _____ PAGE NO. _____

Client
WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

Job Title
POTOMAC YARD METRO RAIL STATION

ARUP

77 Water Street
New York, NY 10005
T +1 212 896 3000
www.arup.com

Key Plan

Drawing Title

ILLUSTRATIVE PLAN

SHEET 36 OF 37

Scale
1" = 50'-0"

File Name

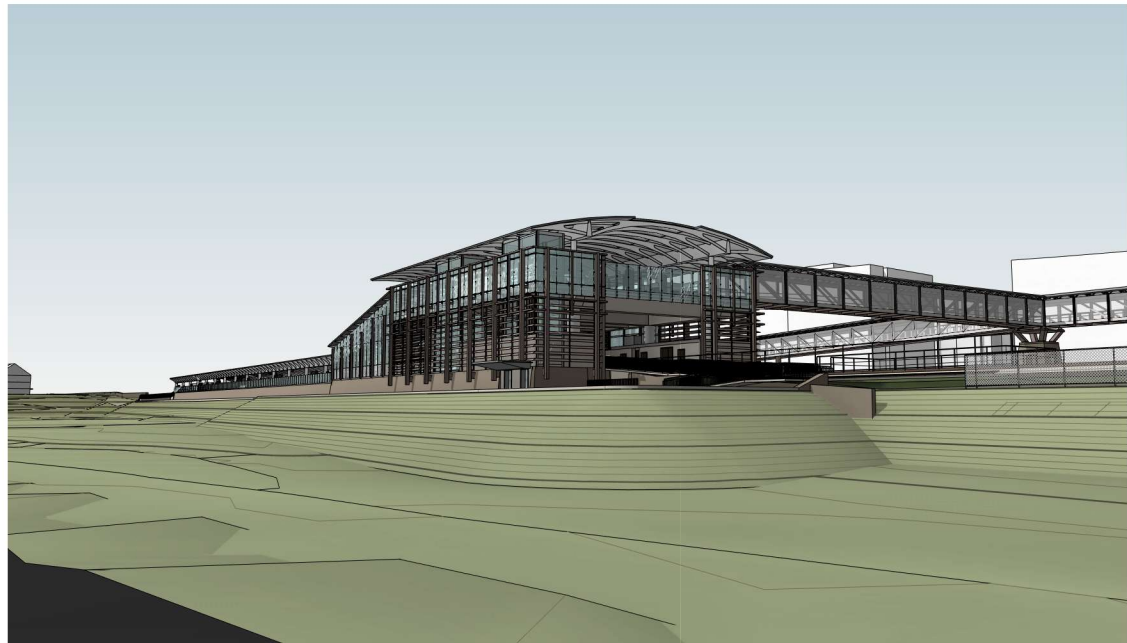
Drawing Status
DSUP DRAWINGS

Job No
254992

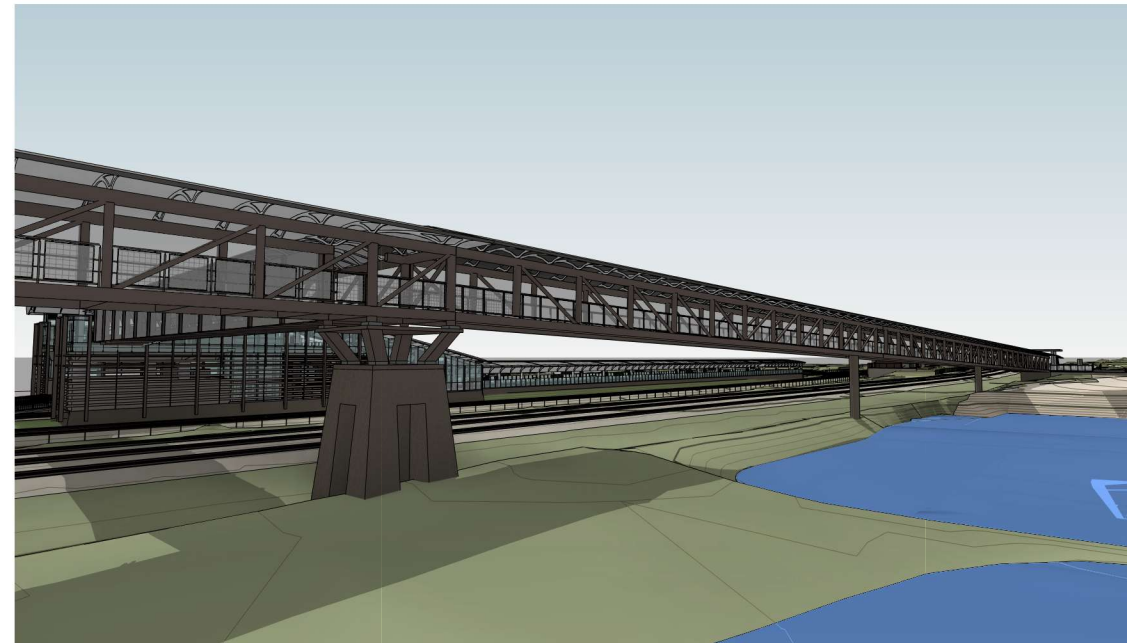
Drawing No
A-08

Issue
36

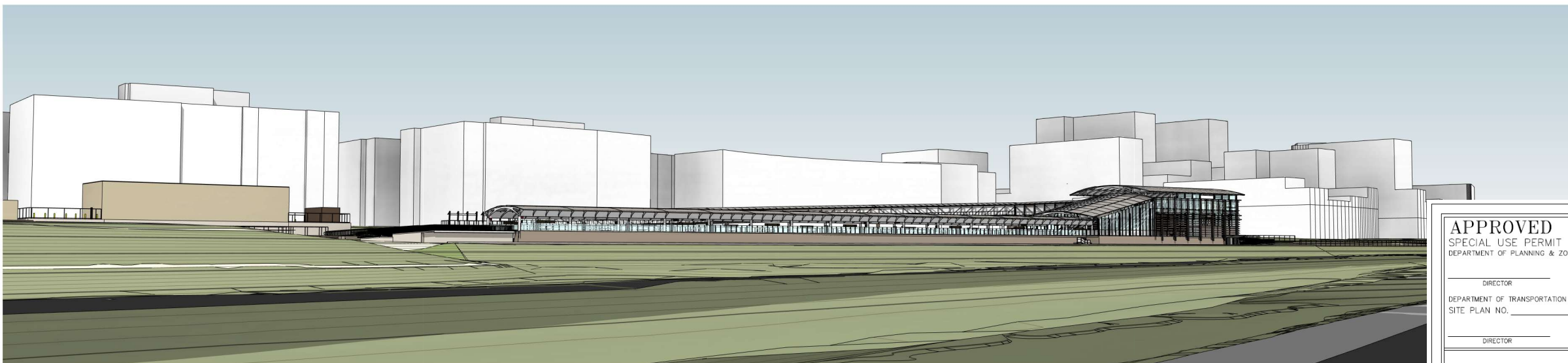
Issue	Date	By	Chkd	Appd



1 GWMP SOUTHBOUND VIEW LOOKING SW



2 NORTH POND VIEW LOOKING SE



3 GWMP NORTHBOUND VIEW LOOKING NW

APPROVED		
SPECIAL USE PERMIT NO. _____		
DEPARTMENT OF PLANNING & ZONING		
DIRECTOR _____	DATE _____	
DEPARTMENT OF TRANSPORTATION & ENVIRONMENTAL SERVICES		
SITE PLAN NO. _____		
DIRECTOR _____	DATE _____	
CHAIRMAN, PLANNING COMMISSION _____		
DATE RECORDED _____		DATE _____
INSTRUMENT NO. _____	DEED BOOK NO. _____	PAGE NO. _____

Client WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY	Job Title POTOMAC YARD METRORAIL STATION	ARUP 77 Water Street New York, NY 10005 T +1 212 896 3000 www.arup.com Scale _____ File Name _____ Drawing Status DSUP DRAWINGS Job No. 254992 Drawing No. A-09 Issue 37
Key Plan _____	Drawing Title ILLUSTRATIVE VIEWS SHEET 37 OF 37	
Issue _____ Date _____ By _____ Chkd _____ Appd _____		