

ZONING TABULATIONS

PROPOSED PARCEL	PARCEL 612 B1*
NUMBER/IDENTIFICATION	
EXISTING ZONING OF SITE	UT
PROPOSED ZONING OF SITE	UT
EXISTING USES OF SITE	POTOMAC YARD PARK
PROPOSED USE	PEDESTRIAN BRIDGE/ENTRY PAVILION
LOT AREA MINIMUM REQUIRED BY ZONING	N/A
LOT AREA	0.8327 AC
NUMBER OF DWELLING UNITS	N/A
UNITS/ACRE	N/A
DENSITY	N/A
GROSS SF OF BUILDINGS	11844.00
STATION	N/A
AC BUILDING SF	N/A
SOUTH PED BRIDGE/RAMP SF	5495.00
SOUTH ENTRY PAVILLION SF	3196.00
NORTH PED BRIDGE SF	N/A
EXISTING TRACTION POWER SUBSTATION	N/A
NET SF OF BUILDINGS	11073.00
STATION	N/A
AC BUILDING SF	N/A
SOUTH PED BRIDGE/RAMP SF	5495.00
SOUTH ENTRY PAVILLION SF	2094.00
NORTH PED BRIDGE SF	N/A
EXISTING TRACTION POWER SUBSTATION	N/A
FAR EXISTING	0.00
FAR PROPOSED	0.24
OPEN SPACE REQUIRED	N/A
OPEN SPACE	0.42 AC
AVERAGE FINISH GRADE - STATION	N/A
AVERAGE FINISH GRADE - AC ROOM	N/A
BUILDING HEIGHT - STATION	N/A
BUILDING HEIGHT - AC ROOM	N/A
BUILDING HEIGHT - ENTRY PAVILION	33.50
BUILDING SETBACKS REQUIRED	N/A
FRONTAGE REQUIRED	N/A
PARKING SPACES REQUIRED	N/A
PARKING SPACES PROPOSED	N/A
LOADING SPACES REQUIRED AND PROPOSED	N/A
TRIP GENERATION METHOD	N/A
AVERAGE FINISHED GRADE	36.3'
BUILDING HEIGHT	29'
BRIDGE KNUCKLE PIER ROOF	40'

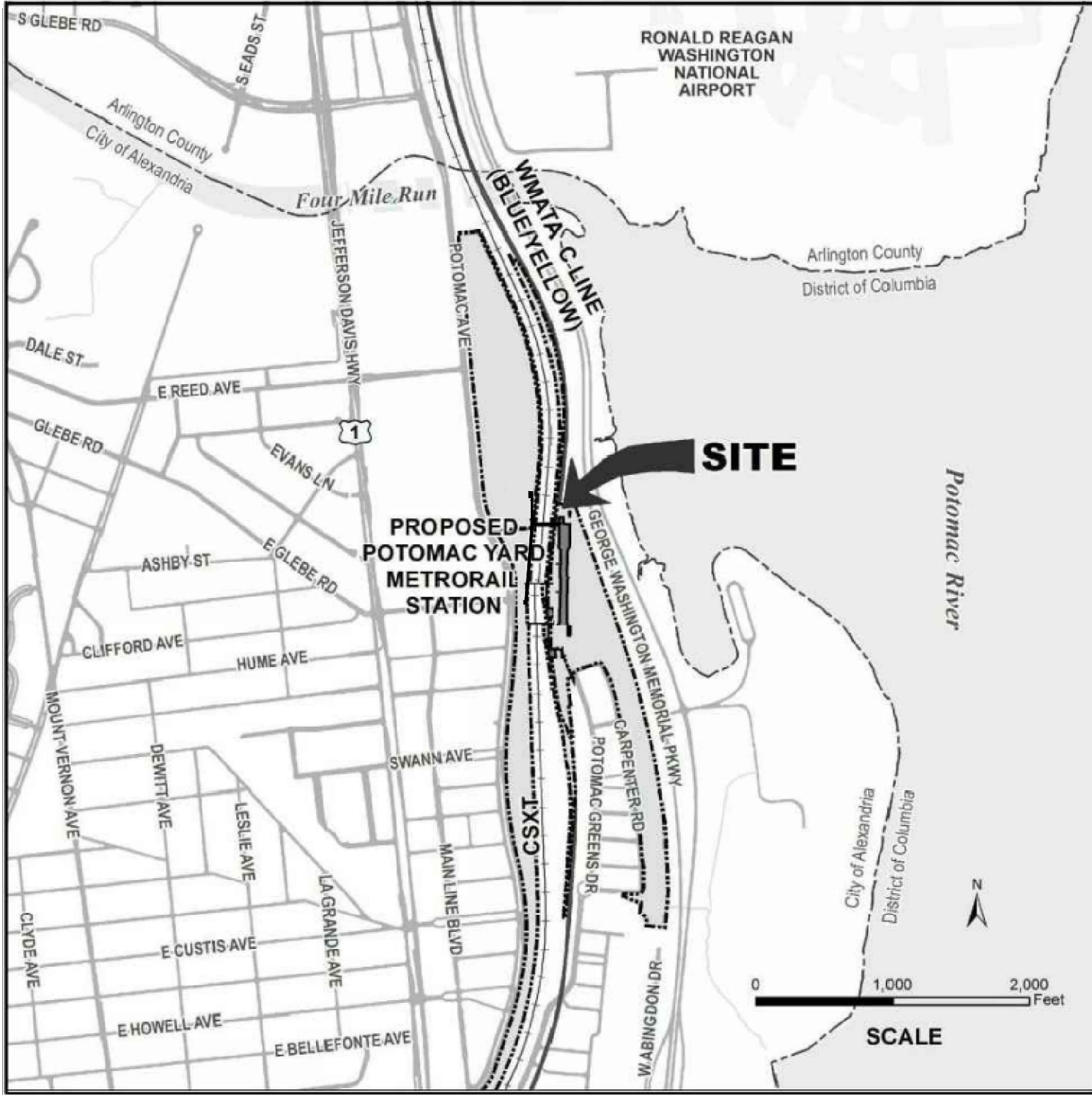
* SEE PRELIMINARY SUBDIVISION
PLAT 05/04/16 FOR IDENTIFICATION
OF PROPOSED PARCELS

AREA TABULATIONS

	AREA (AC)
EXISTING IMPERVIOUS	0.20
PROPOSED IMPERVIOUS	0.21
LIMIT OF DISTURBANCE	2.21

FINAL SITE PLAN
POTOMAC YARD METRORAIL STATION
SOUTH PAVILION AND KNUCKLE EGRESS STAIR
CITY OF ALEXANDRIA, VIRGINIA
FINAL SITE PLAN - DSUP 2020-10020

VICINITY MAP



NARRATIVE

DSUP 2020-10020 IS A NEW APPLICATION FOR THE SOUTH PAVILION ENTRANCE, PEDESTRIAN BRIDGE SPAN WHICH PROVIDE ACCESS TO A NEW METRORAIL STATION. ADDITIONALLY, AN EMERGENCY EGRESS STAIR AT THE PEDESTRIAN BRIDGE KNUCKLE PIER IS PROPOSED. THIS APPLICATION IS RELATED TO THE PREVIOUSLY APPROVED DSUP 2018-0017. THE DSUP 2018-0017 PROPOSED A NEW METRORAIL STATION WITH ADDITIONAL PEDESTRIAN ENTRANCES CONNECTED TO THE STATION BY A PEDESTRIAN BRIDGE.

THE SOUTH ENTRANCE IN THE PREVIOUSLY APPROVED DSUP PROVIDED A RAMP DOWN TO GRADE FROM THE "KNUCKLE" BRIDGE PIER AND EGRESS STAIR TO AN EXISTING PLAZA AT GLEBE RD. AND POTOMAC AVE. THIS APPLICATION PROPOSES TO REPLACE THE RAMP TO GRADE WITH A 2-STORY 'SOUTH ENTRANCE PAVILION' AND PEDESTRIAN BRIDGE TO THE KNUCKLE PIER. THE NORTH PAVILION ENTRANCES AND STATION ARE UNCHANGED FROM THE PREVIOUS DSUP APPLICATION. ALL INFORMATION BEYOND THE SOUTH PAVILION AND BRIDGE SPAN IS APPROVED AS PART OF THE PREVIOUS DSUP AND IS FOR REFERENCE ONLY.

OWNER

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY (WMATA)
ADDRESS: 2500 POTOMAC GREENS DRIVE, ALEXANDRIA, VA 22314

REQUIRED APPLICATIONS

- DEVELOPMENT SPECIAL USE PERMIT

FLOODPLAIN NOTES

- THE SITE DOES NOT LIE WITHIN A 100-YEAR FLOODPLAIN

DESIGN GUIDELINES

- THE PROPOSED PROJECT IS LOCATED WITHIN THE OLD AND HISTORIC ALEXANDRIA DISTRICT AND THE ALEXANDRIA HISTORIC DISTRICT DESIGN GUIDELINES APPLY.
- 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.

RPA NOTES

- THIS PROJECT SITE DOES NOT LIE WITHIN A RESOURCE PROTECTION AREA.

SITE PLANS

- THE PROJECT IS NOT LOCATED IN A COMBINED SEWER AREA.
- SEE DRAWING NO. C-04 THROUGH C-08A FOR BMP AND STORM WATER MANAGEMENT REQUIREMENTS AND MITIGATION
- SOIL AND/OR GROUNDWATER CONTAMINATION: SEE THE POTOMAC YARD METRORAIL STATION DRAFT ENVIRONMENTAL IMPACT STATEMENT (DEIS) DATED APRIL, 2015.
- THE PROJECT WILL NOT EXCEED 10,000 GPD OF SANITARY FLOWS.

SANITARY FLOW ANALYSIS

- THERE IS NO CALCULATED SANITARY FLOW FOR THIS PROJECT. THE SOUTH ENTRANCE PAVILION CONSISTS OF FLOOR DRAINS AND AN ELEVATOR SUMP PUMP FOR INCIDENTAL WATER.

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' 00.00000" N (= +38.833 333 333 333 333...")
Longitude of central meridian: 77° 02' 00.00000" 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' 00.00000" N (= +38.833 333 333 333 333...")
Latitude of south standard parallel: 38° 50' 00.00000" N (= +38.833 333 333 333 333...")
Latitude of grid origin: 38° 50' 00.00000" N (= +38.833 333 333 333 333...")
Longitude of central meridian: 77° 02' 00.00000" 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.

EXISTING CONDITIONS PLAN NOTES

- 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.
- 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.
- THE NORTH MERIDIAN AND HORIZONTAL CONTROL ARE BASED ON THE WMATA 2009 LOW DISTORTION PROJECTION SYSTEM. VERTICAL DATUM IS NAVD 88.



			REFERENCE DRAWINGS		REVISIONS		
			NUMBER	DESCRIPTION	DATE	NUM	DESCRIPTION
DESIGNED	MSP	09/09/2020			10/07/2020	1	FSP #2
DRAWN	AW	09/09/2020					
CHECKED	JD	09/09/2020					
APPROVED	TW	09/09/2020					

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES
OFFICE OF THE CHIEF ENGINEER, INFRASTRUCTURE

SUBMITTED	DATE
APPROVED	DATE
DIRECTOR	DATE



ARUP

POTOMAC YARD METRORAIL STATION
SOUTH PAVILION, BRIDGE SPAN, AND KNUCKLE EGRESS STAIR
FINAL SITE PLAN

COVER SHEET

M NO.	CONTRACT NO.	SCALE:	DRAWING NO.	SHEET NO.
M1316	FQ16146		G-001	1 OF 60

FINAL SITE PLAN DRAWING LIST
GENERAL

SHEET NUMBER	DRAWING NUMBER	DRAWING TITLE
1	G-001	CVER
2	G-002	DRAWING INDEX SHEET – SHEET 1 OF 2
3	G-003	LEGEND AND ABBREVIATIONS
4	G-004	GENERAL NOTES – SHEET 1 OF 2
5	G-005	GENERAL NOTES – SHEET 2 OF 2
6	G-010	CONTEXTUAL PLAN – PHASING
7	G-011	CONTEXTUAL PLAN – BUS STOPS

DIMENSION

SHEET NUMBER	DRAWING NUMBER	DRAWING TITLE
8	G-012	DIMENSION PLAN

OPEN SPACE

SHEET NUMBER	DRAWING NUMBER	DRAWING TITLE
9	G-013	OPEN SPACE PLAN

EXISTING CONDITIONS

SHEET NUMBER	DRAWING NUMBER	DRAWING TITLE
10	C-101	EXISTING CONDITIONS PLAN – SHEET 1 OF 2
11	C-102	EXISTING CONDITIONS PLAN – SHEET 2 OF 2

DEMOLITION

SHEET NUMBER	DRAWING NUMBER	DRAWING TITLE
12	C-111	EXISTING CONDITIONS PLAN – SHEET 1 OF 2
13	C-112	EXISTING CONDITIONS PLAN – SHEET 2 OF 2

SITE

SHEET NUMBER	DRAWING NUMBER	DRAWING TITLE
--------------	----------------	---------------

14	C-121	SITE PLAN – SHEET 1 OF 2
15	C-122	SITE PLAN – SHEET 2 OF 2
16	C-123	SITE DETAILS – SHEET 1 OF 2
17	C-124	SITE DETAILS – SHEET 2 OF 2
17A	C-125	MAINTENANCE VEHICLE TURNING STUDY
17B	C-126	PEDESTRIAN DETOUR PLAN

GRADING

SHEET NUMBER	DRAWING NUMBER	DRAWING TITLE
--------------	----------------	---------------

18	C-131	GRADING PLAN – SHEET 1 OF 2
19	C-132	GRADING PLAN – SHEET 2 OF 2
19A	C-133	PIER CROSS SECTIONS

STORMWATER

SHEET NUMBER	DRAWING NUMBER	DRAWING TITLE
20	C-141	STORMWATER PLAN – SHEET 1 OF 2
21	C-142	STORMWATER PLAN – SHEET 2 OF 2
22	C-143	STORMWATER DETAILS
23	C-144	OVERALL STORMWATER MANAGEMENT BMP PLAN
24	C-145	EXISTING DRAINAGE AREA MAP
25	C-146	PROPOSED DRAINAGE AREA MAP
26	C-147	BMP AREA MAP
27	C-148	STORMWATER CALCULATIONS – SHEET 1 OF 4
28	C-149	STORMWATER CALCULATIONS – SHEET 2 OF 4
29	C-150	STORMWATER CALCULATIONS – SHEET 3 OF 4
30	C-151	STORMWATER CALCULATIONS – SHEET 4 OF 4

UTILITY

SHEET NUMBER	DRAWING NUMBER	DRAWING TITLE
31	C-161	UTILITY PLAN – SHEET 1 OF 2
32	C-162	UTILITY PLAN – SHEET 2 OF 2
33	C-163	UTILITY DETAILS

EROSION AND SEDIMENT CONTROL

SHEET NUMBER	DRAWING NUMBER	DRAWING TITLE
34	C-171	EROSION AND SEDIMENT CONTROL PLAN – SHEET 1 OF 2
35	C-172	EROSION AND SEDIMENT CONTROL PLAN – SHEET 2 OF 2
36	C-173	EROSION AND SEDIMENT CONTROL NOTES AND DETAILS
37	C-174	EROSION AND SEDIMENT CONTROL DETAILS

FIRE SERVICE

SHEET NUMBER	DRAWING NUMBER	DRAWING TITLE
38	F-101	FIRE SERVICE PLAN

LIGHTING

SHEET NUMBER	DRAWING NUMBER	DRAWING TITLE
39	LI-101	LIGHTING PHOTOMETRIC PLAN

LANDSCAPE

SHEET NUMBER	DRAWING NUMBER	DRAWING TITLE
40	L-001	GENERAL LANDSCAPE NOTES
41	L-101	TREE PRESERVATION AND REMOVAL PLAN 1 OF 2
42	L-102	TREE PRESERVATION AND REMOVAL PLAN 2 OF 2
43	L-111	REFERENCE PLANTING PLAN 1 OF 2
44	L-112	REFERENCE PLANTING PLAN 2 OF 2
44A	L-113	EXISTING TREE SURVEY SCHEDULE
45	L-121	PLANTING PLAN 1 OF 4
46	L-122	PLANTING PLAN 2 OF 4
47	L-123	PLANTING PLAN 3 OF 4
48	L-124	PLANTING PLAN 4 OF 4
49	L-131	IRRIGATION PLAN 1 OF 2
50	L-132	IRRIGATION PLAN 2 OF 2
51	L-501	PLANTING DETAILS
51	L-502	PLANTING DETAILS

ARCHITECTURAL

SHEET NUMBER	DRAWING NUMBER	DRAWING TITLE
53	A-001	SOUTH PAVILION BRIDGE SPAN AND KNUCKLE OVERALL PLAN
54	A-002	SOUTH PAVILION FLOOR PLANS
55	A-003	SOUTH PAVILION BRIDGE SPAN AND KNUCKLE FINISH PLANS
56	A-004	SOUTH PAVILION FINISH FLOOR PLANS
57	A-005	KNUCKLE STAIR PLANS
58	A-007	SOUTH PAVILION ELEVATIONS
60	A-008	FINISH AND MATERIALS SCHEDULE

APPROVED

SPECIAL USE PERMIT NO. _____

DEPARTMENT OF PLANNING & ZONING

DIRECTOR _____ DATE _____

DEPARTMENT OF TRANSPORTATION & ENVIRONMENTAL SERVICES

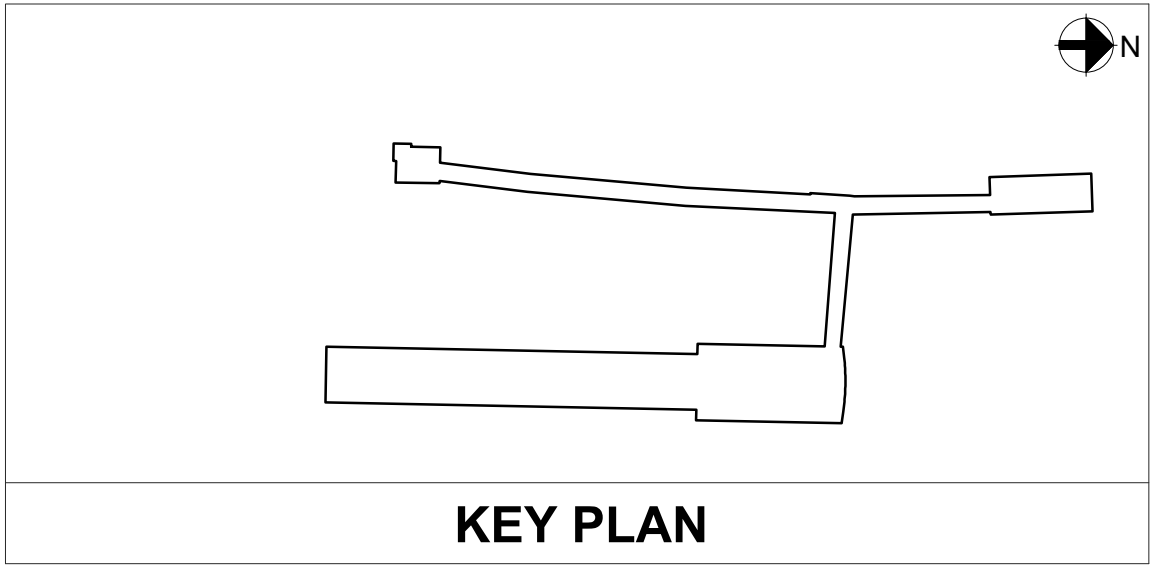
SITE PLAN NO. _____

DIRECTOR _____ DATE _____

CHAIRMAN, PLANNING COMMISSION _____ DATE _____

DATE RECORDED _____

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



PROFESSIONAL CERTIFICATION:
I HEREBY CERTIFY THAT THESE DOCUMENTS
WERE PREPARED OR APPROVED BY ME, AND
THAT I AM A FULLY LICENSED PROFESSIONAL
ENGINEER UNDER THE LAWS OF THE STATE
OF VIRGINIA.

LICENSE NO.
EXPIRATION DATE:

DESIGNED			REFERENCE DRAWINGS		REVISIONS		
	MSP	09/09/2020	NUMBER	DESCRIPTION	DATE	NUM	DESCRIPTION
DRAWN	AW	09/09/2020			10/07/2020	1	FSP #2
CHECKED	JD	09/09/2020					
APPROVED	TW	09/09/2020					

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES

OFFICE OF THE CHIEF ENGINEER, INFRASTRUCTURE

SUBMITTED _____ DATE _____

APPROVED _____ DATE _____

DIRECTOR _____ DATE _____



ARUP

POTOMAC YARD METRORAIL STATION SOUTH PAVILION, BRIDGE SPAN, AND KNUCKLE EGRESS STAIR FINAL SITE PLAN DRAWING INDEX SHEET				
M NO.	CONTRACT NO.	SCALE:	DRAWING NO.	SHEET NO.
M1316	FQ16146	NTS	G-002	2 OF 60

9/2/2020 2:15 PM FILE PATH: C:\PROJECTWISE\AMX_DS01\MEREDITH.SIMON-PEARS\DWG\MS6652

ABBREVIATIONS

BC	BOTTOM OF CURB	UNK	UNKNOWN
BLDG	BUILDING	VIF	VERIFY IN FIELD
BP	ALIGNMENT BEGINNING	W	WEST
BVCE	VERTICAL TANGENT–CURVE INTERSECT ELEVATION	WSE	WATER SURFACE ELEVATION
BVCS	VERTICAL TANGENT–CURVE INTERSECT STATION	W/	WITH
BWG	BOTTOM OF WALL GRADE	W/M	WATERMAIN
C/C	CENTER TO CENTER	WMATA	WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
CB	CATCH BASIN	WWF	WELDED WIRE FABRIC
CMP	CORRUGATED METAL PIPE		
CO	CLEAN OUT		
DIA	DIAMETER		
DIP	DUCTILE IRON PIPE		
E	EAST		
EG	EXISTING GRADE		
EL.	ELEVATION		
ELEV	ELEVATION		
EP	ALIGNMENT END		
EVCE	VERTICAL CURVE–TANGENT INTERSECT ELEVATION		
EVCS	VERTICAL CURVE–TANGENT INTERSECT STATION		
EX.	EXISTING		
EXP	EXPANSION		
FDC	FIRE DEPARTMENT CONNECTION		
FEMA	FEDERAL EMERGENCY MANAGEMENT		
FES	FLARED END SECTION		
FFE	FINISHED FLOOR ELEVATION		
FG	FINISHED GRADE		
FIRM	FLOODPLAIN INSURANCE RATE MAP		
FT	FEET		
GALV	GALVANIZED		
GR	GRATE		
HDPE	HIGH DENSITY POLYETHYLENE		
HP	HIGH POINT		
HW	HEADWALL		
IB	INBOUND		
IN(S)	INCH(ES)		
INV	INVERT		
LF	LINEAR FEET		
LP	LOW POINT		
LV	LOW VOLTAGE		
LVC	LENGTH OF VERTICAL CURVE		
MH	MANHOLE		
MID	MIDDLE/MIDPOINT		
MIN	MINIMUM		
MV	MEDIUM VOLTAGE		
N	NORTH		
NSRS	NATIONAL SPATIAL REFERENCE SYSTEM		
OB	OUTBOUND		
OC	ON CENTER		
PC	TANGENT–CURVE INTERSECT		
PERF	PERFORATED		
POE	POINT OF ENTRY		
PR.	PROPOSED		
PT	CURVE–TANGENT INTERSECT		
PVC	POLYVINYL CHLORIDE		
PVI	POINT OF VERTICAL INTERSECTION		
R	RADIUS		
R.C.P.	REINFORCED CONCRETE PIPE		
RPA	RESOURCE PROTECTION AREA		
S	SOUTH		
SAN	SANITARY		
SFT	SURVEY FOOT		
STA	STATION		
STM	STORM		
STMH	STORM MANHOLE		
SWR	SEWER		
TC	TOP OF CURB		
TG	TOP OF GRADE		
TWG	TOP OF WALL GRADE		
TRK	TRACK		
TW	TOP OF WALL		
TYP.	TYPICAL		

LEGEND

EXISTING		PROPOSED	
PROPERTY LINE	---	---	
ZONING BOUNDARY	■ ■ ■ ■		
ZONING DESIGNATION	UT		
BUILDING ENTRANCE		▶	
EASEMENT			
DEMOLITION			
PAVEMENT/PATH TO BE REMOVED			
GRASS TO BE REMOVED			
RETAINING WALL TO BE REMOVED			
SITE			
FENCE	—○—○—○—	—○—○—○—	
EDGE OF PAVEMENT	=====	=====	
CURB	=====	=====	
DEPRESSED/MOUNTABLE CURB			
CONCRETE PAVEMENT			
PERMEABLE PAVERS			
ASPHALT PAVERS			
ASPHALT PAVEMENT			
ENTRANCE LOCATION		▶	
BUILDING FOOTPRINT			
BUILDING ROOF		---	
STAIRS			
RETAINING WALL AND FOOTING			
LIGHT POLE	☀	Ⓜ	
TREE	☁		
STREET SIGN	⌒	⌒	
STORMWATER			
STORM PIPE			
CLEANOUT		○	
FLARED END SECTION		⌒	
OUTLET PROTECTION			

EXISTING		PROPOSED	
MAJOR CONTOUR	--- 10 ---	--- 10 ---	
MINOR CONTOUR	----- 9 -----	----- 9 -----	
SPOT ELEVATION	× 20.56	× 20.56	
GRADING			
STORM LINE	--- STM ---	--- STM ---	
SANITARY PIPE	--- SAN ---	--- S ---	
WATER MAIN	--- WTR ---	--- WTR ---	
ELECTRICAL DUCTBANK	--- UGE ---	--- UGE ---	
GAS MAIN	--- GAS ---		
FIRE SERVICE		--- FS ---	
TELECOMMUNICATIONS MANHOLE	Ⓣ		
ELECTRICAL MANHOLE	ⓔ		
SANITARY MANHOLE	Ⓢ		
STORM DRAIN	Ⓢ		
CATCH BASIN	Ⓢ		
FIRE HYDRANT	Ⓢ		
UTILITY			
LIMIT OF DISTURBANCE		LOD	
SILT FENCE		—○—○—○—	
CONSTRUCTION FENCE		— x — x —	
SUPER SILT FENCE		—□—	
STABILIZED CONSTRUCTION ENTRANCE			
SURFACE INLET PROTECTION TYPE 1			
STREET INLET PROTECTION TYPE 2			
FLOW ARROW		→	
DRAINAGE CHANNEL		→	
EROSION AND SEDIMENT CONTROL			

APPROVED

SPECIAL USE PERMIT NO. _____

DEPARTMENT OF PLANNING & ZONING

DIRECTOR _____ DATE _____

DEPARTMENT OF TRANSPORTATION & ENVIRONMENTAL SERVICES

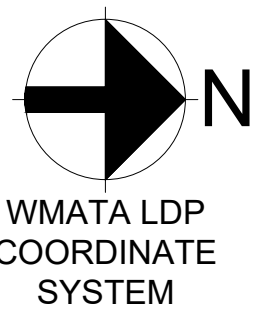
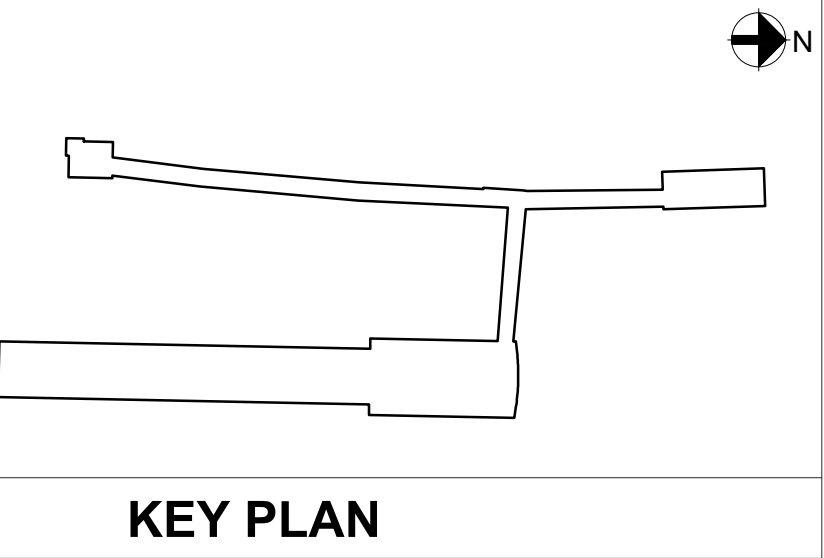
SITE PLAN NO. _____

DIRECTOR _____ DATE _____

CHAIRMAN, PLANNING COMMISSION _____ DATE _____

DATE RECORDED _____

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



WMATA LDP
COORDINATE
SYSTEM



PROFESSIONAL CERTIFICATION:
I HEREBY CERTIFY THAT THESE DOCUMENTS
WERE PREPARED OR APPROVED BY ME, AND
THAT I AM A FULLY LICENSED PROFESSIONAL
ENGINEER UNDER THE LAWS OF THE STATE
OF VIRGINIA.

LICENSE NO.
EXPIRATION DATE:

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES
OFFICE OF THE CHIEF ENGINEER, INFRASTRUCTURE

SUBMITTED _____ DATE _____

APPROVED _____ DATE _____

DIRECTOR _____ DATE _____



ARUP

POTOMAC YARD METRORAIL STATION
SOUTH PAVILION, BRIDGE SPAN, AND KNUCKLE EGRESS STAIR
FINAL SITE PLAN

LEGEND AND ABBREVIATIONS

M NO.	CONTRACT NO.	SCALE:	DRAWING NO.	SHEET NO.
M1316	FQ16146	NTS	G-003	3 OF 60

1. THE PROJECT IS NOT LOCATED IN A COMBINED SEWER AREA.
1. SOIL AND/OR GROUNDWATER CONTAMINATION: SEE THE POTOMAC YARD METRORAIL STATION DRAFT ENVIRONMENTAL IMPACT STATEMENT (DEIS) DATED APRIL, 2015.
2. THE PROJECT WILL NOT EXCEED 10,000 GPD OF SANITARY FLOWS.

1. HORIZONTAL DATUM WMATA LOW DISTORTION PROJECTION SYSTEM
2. VERTICAL DATUM NORTH AMERICAN VERTICAL DATUM OF 1988, NAVD83.
3. EXISTING UTILITY INFORMATION IS FROM THE FOLLOWING:
 - a. POTOMAC YARD METRORAIL STATION CONTRACT DRAWINGS: VOLUME 3 – PROJECT DIRECTIVE DRAWINGS DATED NOVEMBER 28, 2016
 - b. POTOMAC YARD METRORAIL STATION CONTRACT DRAWINGS VOLUME 10 – PROJECT REFERENCE DRAWINGS, DSUP #2016-0004
 - c. FIELD SURVEYS PROVIDED BY POTOMAC YARD CONSTRUCTORS, CONDUCTED BY CHRISTOPHER CONSULTANTS IN THE FOLLOWING DOCUMENTS:
 - i. EXHIBIT TITLED, "TOPOGRAPHIC AND STORM AS-BUILT EXHIBIT IN THE AREA OF NORTH AND SOUTH PAVILION POTOMAC YARD METRORAIL STATION," DATED 4/22/19 (1 OF 1)
 - ii. EXHIBIT TITLED "SURVEYED EXHIBIT POTOMAC YARD METRORAIL STATION," DATED 3/8/19 (1 OF 1)
4. EXISTING TOPOGRAPHIC INFORMATION IS FROM THE FOLLOWING:
 - a. POTOMAC YARD METRORAIL STATION CONTRACT DRAWINGS: VOLUME 3 – PROJECT DIRECTIVE DRAWINGS DATED NOVEMBER 28, 2016
 - b. POTOMAC YARD METRORAIL STATION CONTRACT DRAWINGS VOLUME 10 – PROJECT REFERENCE DRAWINGS, DSUP #2016-0004
5. EXISTING FRESHWATER WETLANDS, RESOURCE PROTECTION AREA, AND FLOODPLAIN LIMIT INFORMATION IS FROM THE FOLLOWING:
 - a. POTOMAC YARD METRORAIL STATION CONTRACT DRAWINGS: VOLUME 3 – PROJECT DIRECTIVE DRAWINGS DATED NOVEMBER 28, 2016
 - b. POTOMAC YARD METRORAIL STATION CONTRACT DRAWINGS VOLUME 10 – PROJECT REFERENCE DRAWINGS, DSUP #2016-0004
6. EXISTING TIDAL WETLANDS BOUNDARY INFORMATION IS FROM THE FOLLOWING:
 - a. MAP PROVIDED BY STANTEC CONSULTING SERVICES, INC. TITLED, "TIDAL WETLANDS," DRAWING NO. F-01 (1 OF 1), DATED 12/17/2018

1. HORIZONTAL DATUM* WMATA LOW DISTORTION PROJECTION SYSTEM VERTICAL DATUM* NORTH AMERICAN VERTICAL DATUM OF 1988, NAVD88.
2. UTILITY INFORMATION, AS SHOWN ON THIS PLAN IS TAKEN FROM THE RECORDS AND/OR FIELD SURVEY COMPLETED BY MERCADO CONSULTANTS, INC., DATED 01/2016/AND CANNOT BE GUARANTEED. FOR EXACT LOCATIONS OF EXISTING UNDERGROUND UTILITIES, NOTIFY "MISS UTILITY" AT 1-800-257-7777 AND 811, 72 HOURS BEFORE THE START OF ANY EXCAVATION OR CONSTRUCTION. THE CONSTRUCTION WORKERS AND CONTRACTOR(S) ARE ENCOURAGED TO VISIT DOMINION VIRGINIA POWER WEB SITE AT: WWW.DOM.COM (KEYWORD SAFETY) FOR ADDITIONAL SAFETY INSTRUCTIONS.
3. CONTRACTOR SHALL HAND DIG WHEN NECESSARY IN THE VICINITY OF A KNOWN EXISTING UTILITY TO VERIFY LOCATION AND DEPTH OF THE BOUNDARY INFORMATION FOR THE SUBJECT SITE IS BASED ON A CURRENT FIELD SURVEY PREPARED BY A. MORTON THOMAS & ASSOCIATES, INC., DATED 03/2016 IN ACCORDANCE WITH THE REQUIREMENTS OF VIRGINIA ASSOCIATION OF LAND SURVEYORS.

*PER MEMORANDUM TO INDUSTRY, JULY 20, 2005; THE PLAN SHALL BE PREPARED USING VIRGINIA STATE PLANE (NORTH ZONE) COORDINATES BASED ON NAD83 AND NAVD88; HOWEVER, IF THE CURRENT DRAWINGS ARE PREPARED USING NORTH AMERICAN DATUM OF 1927 (NAD27) AND NORTH GEODETIC VERTICAL DATUM OF 1929 (NGVD29), THEN THE AS-BUILT DRAWINGS SHALL PROVIDE A CONVERSION TABLE OF SANITARY AND STORM SEWER DATA IN THE NAD83 AND NAVD88 DATUMS.

1. THE SUBJECT SITE IS LOCATED ON CITY OF ALEXANDRIA ASSESSMENT TAX PARCEL 025.04--03--01.
2. OWNER: CITY OF ALEXANDRIA.
3. FINAL DEED BOOK IS TO BE DETERMINED UPON APPROVAL OF COMBINED PROPERTIES THAT WILL COMPRISE PROPOSED LOT 612 B1
4. SITE ADDRESS: 2401 POTOMAC AVE, ALEXANDRIA, VA 22301
5. AREA TABULATION (SEE SHEET G-001 FOR AREA TABULATIONS).
6. THE NATURAL SOILS AT THE SITE CONSIST OF KEYPORT SILT LOAM AS DESCRIBED IN THE NVPCD FROM U.S. DEPARTMENT OF AGRICULTURE. SOIL SURVEY OF FAIRFAX AND ALEXANDRIA COUNTIES, VIRGINIA. ADDITIONAL GEOTECHNICAL STUDIES WILL BE PERFORMED PRIOR TO FINAL SITE PLAN APPROVAL FROM THE CITY OF ALEXANDRIA.
7. THE SITE IS LOCATED IN THE FOUR MILE RUN/POTOMAC RIVER A12 WATERSHED.
8. CONSTRUCTION PERMITS ARE REQUIRED FOR THIS PROJECT. THE APPROVED SITE PLAN MUST BE ATTACHED TO THE PERMIT APPLICATION THAT FULLY DETAILS THE CONSTRUCTION AS WELL AS LAYOUTS AND SCHEMATICS OF THE MECHANICAL, ELECTRICAL, AND PLUMBING SYSTEMS.
9. ALL PUBLIC EASEMENTS OR ALL KNOWN PUBLIC AND PRIVATE EASEMENTS, INCLUDING ALL UTILITY, EGRESS, AND CONSERVATION RESTRICTIONS ARE SHOWN. THE APPLICANT SHALL NOT CONSTRUCT ANY PERMANENT STRUCTURES OVER ANY EXISTING OR PROPOSED PUBLIC AND/OR PRIVATE EASEMENTS UNLESS OTHERWISE APPROVED BY THE PLANNING COMMISSION AND CITY OF ALEXANDRIA COUNCIL.
10. PLAT SUBJECT TO RESTRICTIONS OF RECORD.
11. BUILDING HEIGHT SHALL NOT EXCEED THE ALLOWABLE LIMIT BY CITY OF ALEXANDRIA ZONING ORDINANCE OR AS APPROVED BY THE PLANNING COMMISSION AND CITY OF ALEXANDRIA COUNCIL.
12. ALL NEW CONSTRUCTION SHALL CONFORM TO THE CURRENT STANDARDS AND SPECIFICATIONS OF THE CITY OF ALEXANDRIA AND TO THE VIRGINIA UNIFORM STATEWIDE BUILDING CODE (USBC)
13. FLOOR AREA CALCULATIONS WITH ALLOWABLE LIMITS, AS APPROVED BY PLANNING COMMISSION AND CITY COUNCIL, ARE DEMONSTRATED HEREIN.
14. PRIOR TO COMMENCING NEW WORK, THE CONTRACTOR SHALL PROTECT FROM DAMAGE ALL EXISTING ADJACENT AREAS. IF CITY'S EXISTING PUBLIC INFRASTRUCTURE, INCLUDING BUT NOT LIMITED, TO STREETS, ALLEYSWAYS, DRIVEWAY APRONS, SANITARY AND STORM SEWERS, STREET LIGHTING, TRAFFIC AND PEDESTRIAN SIGNALS, SIDEWALKS, CURB AND GUTTER, AND STORM WATER DROP INLET STRUCTURES ARE DAMAGED BY THE CONTRACTOR OR BY ACTIVITIES RELATING TO THE SITE CONSTRUCTION THEN THE APPLICANT SHALL REPAIR THE SAME TO THE SATISFACTION OF DIRECTOR, TRANSPORTATION AND ENVIRONMENTAL SERVICES (T&ES). A PRE-CONSTRUCTION WALK/SURVEY OF THE SITE SHALL OCCUR WITH CONSTRUCTION AND INSPECTION STAFF TO DOCUMENT EXISTING CONDITIONS PRIOR TO ANY LAND DISTURBING ACTIVITY.
15. ALL IMPROVEMENTS TO THE CITY'S RIGHT-OF-WAY SUCH AS CURB, GUTTER, SIDEWALK, AND DRIVEWAY APRONS, ETC., ARE DESIGNED PER THE CITY OF ALEXANDRIA STANDARDS AND SPECIFICATIONS.

- 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).
17. CONTRACTOR MUST ENSURE THAT THERE IS NO DISTURBANCE ON ADJACENT PROPERTIES WITHOUT RECORDED EASEMENT OR NOTARIZED LETTER OF PERMISSION FROM THE ADJACENT PROPERTY OWNERS.
18. ALL REQUIRED STATE AND FEDERAL PERMITS, WHICH COULD INCLUDE PERMITS FROM THE VIRGINIA DEPARTMENT OF CONSERVATION AND RECREATION (VDNR), VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY (VDEQ), VIRGINIA DEPARTMENT OF HISTORIC RESOURCES (VDHR), 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 RELEASE OF THE FINAL SITE PLAN. THIS INCLUDES THE STATE REQUIREMENT FOR A VIRGINIA STORM WATER MANAGEMENT PROGRAM (VSWMP) GENERAL PERMIT FOR DISCHARGES OF STORM WATER FROM CONSTRUCTION ACTIVITIES FOR LAND DISTURBING ACTIVITIES GREATER THAN 2,500. INFORMATION PERMIT CAN ONLINE AT: FOUND THE VSWMP GENERAL IS REGARDING [HTTP://WWW.DCR.VIRGINIA.GOV/SOIL_AND_ WATER/VSWMP.SHTML](http://www.dcr.virginia.gov/soil_and_water/vswmp.shtml).
19. PERMITS FROM THE CITY OF ALEXANDRIA OFFICE OF ENVIRONMENTAL QUALITY (OEQ), TRANSPORTATION AND ENVIRONMENTAL SERVICES (T&ES), AND BUILDING AND FIRE CODE ADMINISTRATION SHALL BE OBTAINED BY THE APPLICANT, AS REQUIRED AND DOCUMENTED HEREIN. THE CONTRACTOR CAN CONTACT ALEXANDRIA FIRE AND CODE ADMINISTRATION DEPARTMENT AT (703) 838-4644 OR (703) 746-4200 FOR ANY QUESTIONS OR ADDITIONAL INFORMATION.
20. 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) 746-4035 FOR ANY QUESTIONS OR ADDITIONAL INFORMATION.
21. THE PROPERTY ADDRESS MUST BE CLEARLY MARKED IN THE FRONT AND BACK OF THE PROPOSED DEVELOPMENT SITE DURING CONSTRUCTION FOR EMERGENCY RESPONSE PURPOSE IN CONTRASTING COLORS FOR EASY IDENTIFICATION.
22. THE APPLICANT SHALL CONTACT THE CRIME PREVENTION UNIT OF THE ALEXANDRIA POLICE DEPARTMENT AT 703-838-4520 REGARDING SECURITY HARDWARE FOR NEW CONSTRUCTION. THIS SHALL BE COMPLETED PRIOR TO ISSUANCE OF BUILDING PERMIT.
23. ROOF DRAINAGE SYSTEM, SUMP PUMP DISCHARGE, AND FOUNDATION DRAIN SYSTEM MUST BE INSTALLED SUCH AS NEITHER ADVERSELY IMPACT UPON, NOR CAUSE EROSION DAMAGE TO ADJACENT PROPERTIES OR THE PUBLIC RIGHT OF WAY.
24. THE CONTRACTOR MUST ENSURE THAT POSITIVE DRAINAGE OCCURS ON SITE TO PREVENT PONDING OR DRAINAGE PROBLEMS ON ADJACENT PROPERTIES.
25. IN THE EVENT, THE PROPOSED ROOF DRAINAGE AND/OR SUMP PUMP DISCHARGE, AND FOUNDATION DRAIN SYSTEMS AND/OR GRADING ADVERSELY IMPACTS AND/OR CREATES NUISANCE ON PUBLIC RIGHT OF WAY OR PRIVATE PROPERTIES THEN THE APPLICANT SHALL BE RESPONSIBLE TO PROVIDE ADDITIONAL IMPROVEMENTS TO THE ROOF DRAINAGE AND/OR SUMP PUMP DISCHARGE AND FOUNDATION DRAIN SYSTEMS AND/OR GRADING TO THE SATISFACTION OF DIRECTOR, TRANSPORTATION AND ENVIRONMENTAL SERVICES.
26. PER THE REQUIREMENTS OF SECTION 8-1-12 OF THE CITY CHARTER AND CODE: WHEN THE BUILDING FOOTING HAS BEEN PLACED AND THE WALLS HAVE BEEN RAISED TO THE FIRST JOIST BEARING OR STORY HEIGHT ABOVE GRADE, A PLOT PLAN SHOWING THE EXACT LOCATION OF THE WALLS SHALL BE PREPARED BY A LICENSED, CERTIFIED PUBLIC LAND SURVEYOR OR PROFESSIONAL ENGINEER AND FILED WITH THE BUILDING OFFICIAL FOR APPROVAL BEFORE PROCEEDING FURTHER WITH THE CONSTRUCTION.
27. A SEPARATE DESIGN IS REQUIRED FOR ALL WALLS 24" AND OVER IN HEIGHT FROM THE GRADE AND SUBJECT TO SEPARATE PERMITS TO BE OBTAINED BY THE OWNERS. GEOTECHNICAL AND STRUCTURAL DESIGN IS TO BE COMPLETED BY OTHERS. THIS FINAL SITE PLAN SHOWS LOCATION, PROPOSED GRADING, AND DESIGN OF ALL THE WALLS.
28. SUBMIT A SURVEY, CONSISTENT WITH THE REQUIREMENTS FOR CERTIFICATE OF OCCUPANCY CHECKLIST, TO THE DEPARTMENT OF TRANSPORTATION AND ENVIRONMENTAL SERVICES PRIOR TO REQUESTING AN INSPECTION FOR A CERTIFICATE OF OCCUPANCY.
29. ALL SANITARY LATERALS AND/OR SEWERS NOT SHOWN IN THE EASEMENTS SHALL BE OWNED AND MAINTAINED PRIVATELY.
30. ALL STORM DRAINS NOT SHOWN WITHIN AN EASEMENT OR IN A PUBLIC RIGHT OF WAY SHALL BE OWNED AND MAINTAINED PRIVATELY.
31. ALL WATER FACILITY CONSTRUCTION SHALL CONFORM TO VIRGINIA AMERICAN WATER COMPANY STANDARDS AND SPECIFICATIONS. CONTRACTOR SHALL CONTACT VIRGINIA AMERICAN WATER COMPANY AT (703) 549-7080 TO COORDINATE CONSTRUCTION AND INSPECTION OF WATER FACILITIES.
32. THE SIDEWALKS SHALL REMAIN OPENED DURING CONSTRUCTION OR PEDESTRIAN ACCESS SHALL BE MAINTAINED TO THE SATISFACTION OF THE DIRECTOR OF TRANSPORTATION AND ENVIRONMENTAL SERVICES THROUGHOUT THE CONSTRUCTION OF THE PROJECT.
33. PRIOR TO THE RELEASE OF THE FINAL SITE PLAN, A TRAFFIC CONTROL PLAN FOR CONSTRUCTION DETAILING PROPOSED CONTROLS TO TRAFFIC MOVEMENT, LANE CLOSURES, CONSTRUCTION ENTRANCES, HAUL ROUTES, AND STORAGE AND STAGING SHALL BE PROVIDED FOR INFORMATION PURPOSE; HOWEVER, AN AMENDED TRAFFIC CONTROL PLAN, IF REQUIRED BY THE DIRECTOR OF TRANSPORTATION AND ENVIRONMENTAL SERVICES SHALL BE SUBMITTED TO THE DIRECTOR OF TRANSPORTATION AND ENVIRONMENTAL SERVICES ALONG WITH THE BUILDING PERMIT APPLICATION. THE FINAL SITE PLAN SHALL INCLUDE A STATEMENT "FOR INFORMATION ONLY" ON THE TRAFFIC CONTROL PLAN SHEETS.
34. A CERTIFICATE OF OCCUPANCY SHALL BE OBTAINED PRIOR TO ANY OCCUPANCY OF THE BUILDING OR PORTION THEREOF, IN ACCORDANCE WITH VIRGINIA USBC 115.0.

EMERGENCY VEHICLE ACCESS IS PROVIDED VIA POTOMAC AVENUE

1. INSTALL PERIMETER EROSION AND SEDIMENT CONTROLS; AND STABILIZE CONSTRUCTION ENTRANCE AS SHOWN ON THIS PLAN.
2. ALL VEGETATION PRESERVATION AND PROTECTION METHODS SHALL BE APPROVED / VERIFIED IN FIELD BY THE CITY ARBORIST PRIOR TO COMMENCEMENT OF ANY GROUND DISTURBING ACTIVITY.
3. INSTALL INLET PROTECTION AT EXISTING STORM DRAIN INLETS AS NECESSARY AND AS SHOWN ON THIS PLAN.
4. INSTALL ADDITIONAL EROSION AND SEDIMENT CONTROL PRACTICES AS NECESSARY AND AS DIRECTED BY THE EROSION AND SEDIMENT CONTROL INSPECTOR.
5. CONDUCT DEMOLITION AND CONSTRUCTION ACTIVITIES ACCORDING TO THE APPLICABLE PLANS.
6. AS CONTRIBUTORY DRAINAGE AREAS ARE STABILIZED AND WITH THE PERMISSION OF THE EROSION AND SEDIMENT CONTROL INSPECTOR, REMOVE INDIVIDUAL EROSION AND SEDIMENT CONTROL PRACTICES.
7. UPON COMPLETION OF DEMOLITION, CONSTRUCTION AND LAND DISTURBING ACTIVITIES;

THE PRE AND POST DEVELOPMENT PEAK RATES OF RUNOFF ARE COMPUTED BY SCS TR-55 METHODOLOGY USING THE ALEXANDRIA RAINFALL DEPTHS, DESIGN AND CONSTRUCTION STANDARDS, DEPARTMENT OF TRANSPORTATION AND ENVIRONMENTAL SERVICES, JULY 1989. A INLET TIME OF CONCENTRATION OF 10 MINUTES HAS BEEN USED FOR BUSINESS, COMMERCIAL APARTMENT AND TOWNHOUSE COMPLEXES AS IN AN ULTRA URBAN ENVIRONMENT. ALL HYDROLOGIC ANALYSES RELATED TO PRE AND POST DEVELOPMENT IS BASED ON THE EXISTING WATERSHED CHARACTERISTICS AND THE ULTIMATE DEVELOPMENT OF THE SUBJECT PROJECT, RESPECTIVELY.

THE PLAN DEMONSTRATES THAT THE SITE HAS BEEN DEVELOPED TO INCREASE THE POST-DEVELOPMENT PEAK RUNOFF RATE FROM THE PRE-DEVELOPMENT PEAK RUNOFF RATE FOR TWO-YEAR AND TEN YEAR STORMS 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. AN ADEQUATE OUTFALL ANALYSIS IS PROVIDED TO DEMONSTRATE THAT THE STORMWATER IS DISCHARGED INTO AN ADEQUATE OUTFALL PER THE REQUIREMENTS OF ARTICLE XI, SECTION 11-410 (N). ADEQUATE OUTFALL ANALYSIS THE PLAN DEMONSTRATES THE AVAILABILITY OF A STORM SEWER ADEQUATE OUTFALL IN COMPLIANCE WITH THE REQUIREMENTS OF VIRGINIA DEPARTMENT OF CONSERVATION AND RECREATION (DCR), EROSION AND SEDIMENT CONTROL (ESC) REGULATIONS (4VAC50-30-40.19) MINIMUM STANDARD (MS-19), ARTICLE XI SECTION 11-410 (N) OF THE ALEXANDRIA ZONING ORDINANCE (AZO) AND THE APPROVED CONDITION OF DEVELOPMENT.

THE STORMWATER BEST MANAGEMENT PRACTICES (BMP) REQUIRED FOR THIS PROJECT SHALL BE CONSTRUCTED AND INSTALLED UNDER THE DIRECT SUPERVISION OF THE DESIGN ENGINEER OR HIS DESIGNATED REPRESENTATIVE. THE DESIGN ENGINEER SHALL MAKE A WRITTEN CERTIFICATION TO THE CITY THAT THE BMPs ARE CONSTRUCTED AND INSTALLED AS DESIGNED AND IN ACCORDANCE WITH THE APPROVED SITE PLAN. IN ADDITION, AGGREGATE LAYERS A COLLECTOR PIPES MAY NOT BE INSTALLED UNLESS THE DESIGN ENGINEER OR REPRESENTATIVE IS PRESENT.

THE CONTRACTOR SHALL FURNISH THE CITY WITH AN OPERATION AND MAINTENANCE MANUAL FOR ALL BMPs ON THE PROJECT. THE MANUAL SHALL INCLUDE AN EXPLANATION OF THE FUNCTIONS AND OPERATIONS OF EACH BMP AND ANY SUPPORTING UTILITIES, CATALOG CUTS OF ANY MECHANICAL OR ELECTRICAL EQUIPMENT AND A SCHEDULE OF ROUTINE MAINTENANCE FOR THE BMPs AND SUPPORTING EQUIPMENT.

UNDERGROUND UTILITY LINES SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING MINIMUM STANDARDS DESCRIBED IN SECTION 4VAC50-30-40 OF THE VIRGINIA EROSION / SEDIMENT CONTROL HANDBOOK (VESCH) AND ADDITIONAL APPLICABLE PRACTICES FOLLOWED IN THE CITY OF ALEXANDRIA:

- c. ALL PRIVATE UTILITIES SHALL BE LOCATED OUTSIDE OF THE PUBLIC RIGHT-OF-WAY AND PUBLIC UTILITY EASEMENTS UNLESS THE UTILITY OWNERS HAVE FRANCHISE AGREEMENT WITH THE CITY OF ALEXANDRIA; HOWEVER, NO ELECTRIC TRANSFORMERS AND SWITCH GEARS / CONTROL BOXES SHALL BE PLACED IN THE PUBLIC RIGHT OF WAY.
- b. ALL THE EXISTING AND PROPOSED PUBLIC AND PRIVATE UTILITIES AND EASEMENTS SHALL BE SHOWN AND A DESCRIPTIVE NARRATION OF VARIOUS UTILITIES SHALL BE PROVIDED ON THE PLAN.
- c. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN UTILITY SERVICES AT ALL TIMES DURING CONNECTION AND/OR CONSTRUCTION.
- d. NO MORE THAN 500 LINEAR FEET OF TRENCH MAY BE OPENED AT ONE TIME.
- e. EXCAVATED MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF TRENCHES.
- f. EFFLUENT FROM DEWATERING OPERATIONS SHALL BE FILTERED OR PASSED THROUGH AN APPROVED SEDIMENT TRAPPING DEVICE, OR BOTH, AND DISCHARGED IN A MANNER THAT DOES NOT ADVERSELY AFFECT FLOWING STREAMS OR OFF-SITE PROPERTY.
- g. 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.
- h. SHOULD UTILITY CONSTRUCTION BE PERFORMED AFTER COMPLETING EARTHWORK, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACHIEVING 98 PERCENT OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY (ASTM D-1551) COMPACTION IN A TRENCH BACKFILL.
- i. RESTABILIZATION SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE VIRGINIA REGULATIONS §4VAC50-30 EROSION AND SEDIMENT CONTROL REGULATIONS, VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK (VESCH).

APPLICABLE SAFETY REGULATIONS SHALL BE COMPLIED WITH.

k. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL CONTROL MEASURES AS NECESSARY TO PREVENT EROSION AND SEDIMENTATION, AS DETERMINED BY THE DIRECTOR OF TRANSPORTATION AND ENVIRONMENTAL SERVICES, CITY OF ALEXANDRIA .

l. A REMEDIATION PLAN SHALL BE SUBMITTED DETAILING HOW CONTAMINATED SOIL AND/OR GROUNDWATER WILL BE DEALT WITH, INCLUDING PLANS TO REMEDIATE UTILITY CORRIDORS.

m. UTILITY CORRIDORS IN CONTAMINATED SOIL SHALL BE OVER EXCAVATED BY 2 FEET AND BACKFILLED WITH "CLEAN" SOIL.

n. GRADING CAN BE PERFORMED ON INSTALLATION OF UTILITIES.

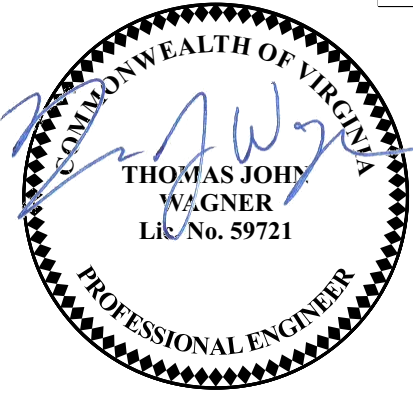
o. ALL UTILITIES SUCH AS ELECTRICAL LINES, GAS PIPES, COMMUNICATION CABLES, INCLUDING WATER AND SEWER LATERALS ON PRIVATE PROPERTY IN THE CITY OF ALEXANDRIA SHALL BE PROVIDED WITH MINIMUM 3" WIDE 5 MIL OVERALL THICKNESS DETECTABLE UNDERGROUND WARNING TAPE (DUWT). THE DUWT SHALL BE INSTALLED AT DEPTHS OF 12" TO 18" FOR DUWT WIDTHS OF 3" AND 24" FOR WIDTHS OF 6" SO AS TO MAKE UNDERGROUND INSTALLATIONS EASY TO FIND USING A NON-FERROUS LOCATOR. THE DUWT SHALL BE WITH ALUMINUM BACKING OR SOLID ALUMINUM CORE LAMINATED WITH A PROTECTIVE CLEAR FILM ON BOTH SIDES, SEALING AND PROTECTING THE GRAPHICS FROM UNDERGROUND MOISTURE, ACIDS, ALKALIS, AND OTHER SOIL SUBSTANCES. ALL DUWT TAPES SHALL BE PRINTED IN BLACK INK ON AMERICAN PUBLIC WORKS ASSOCIATION (APWA) APPROVED COLORS TO MEET OR EXCEED INDUSTRY STANDARDS.

COLOR	CODES
RED	CAUTION BURIED ELECTRIC POWER LINES, CABLES, CONDUITS, AND LIGHTING CABLES
YELLOW	CAUTION GAS, OIL, STEAM, PETROLEUM, OR GASEOUS MATERIALS
ORANGE	CAUTION COMMUNICATIONS, ALARM OR SIGNAL LINES, CABLES, OR CONDUITS
BLUE	CAUTION POTABLE WATER
PURPLE	CAUTION RECLAIMED WATER, IRRIGATION AND SLURRY LINES
GREEN	CAUTION SEWER, DRAIN LINES, AND FORCE MAIN

<h1 style="margin: 0;">APPROVED</h1>		
<h2 style="margin: 0;">SPECIAL USE PERMIT NO. _____</h2>		
<h3 style="margin: 0;">DEPARTMENT OF PLANNING & ZONING</h3>		
_____ DIRECTOR	_____ DATE	
<h3 style="margin: 0;">DEPARTMENT OF TRANSPORTATION & ENVIRONMENTAL SERVICES</h3>		
<h3 style="margin: 0;">SITE PLAN NO. _____</h3>		
_____ DIRECTOR	_____ DATE	
_____ CHAIRMAN, PLANNING COMMISSION	_____ DATE	
DATE RECORDED _____		
_____ INSTRUMENT NO.	_____ DEED BOOK NO.	_____ PAGE NO.

PROFESSIONAL CERTIFICATION:
I HEREBY CERTIFY THAT THESE DOCUMENTS
WERE PREPARED OR APPROVED BY ME, AND
THAT I AM A FULLY LICENSED PROFESSIONAL
ENGINEER UNDER THE LAWS OF THE STATE
OF VIRGINIA.

LICENSE NO.
EXPIRATION DATE:



POTOMAC YARD METRORAIL STATION
SOUTH PAVILION, BRIDGE SPAN, AND KNUCKLE EGRESS STAIR
FINAL SITE PLAN

GENERAL NOTES - SHEET 1 OF 2

M NO. M1316	CONTRACT NO. FQ16146	SCALE: NTS	DRAWING NO. G-004	SHEET NO. 4 OF 60
-----------------------	--------------------------------	--------------------------	---------------------------------	---------------------------------

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES
OFFICE OF THE CHIEF ENGINEER, INFRASTRUCTURE

SUBMITTED	DATE
APPROVED	DATE
DIRECTOR	DATE



ARUP

1. SINCE THE APPLICANT IS NOT REQUIRED BY SECTION 5-1-31 OF THE CITY CHARTER AND CODE TITLE 5: TRANSPORTATION AND ENVIRONMENTAL SERVICES TO USE THE CITY OF ALEXANDRIA'S COLLECTION AND DISPOSAL SERVICES, SOLID WASTE COLLECTION AND DISPOSAL SERVICES SHALL BE PROVIDED BY THE APPLICANT/PRIVATE COLLECTORS.

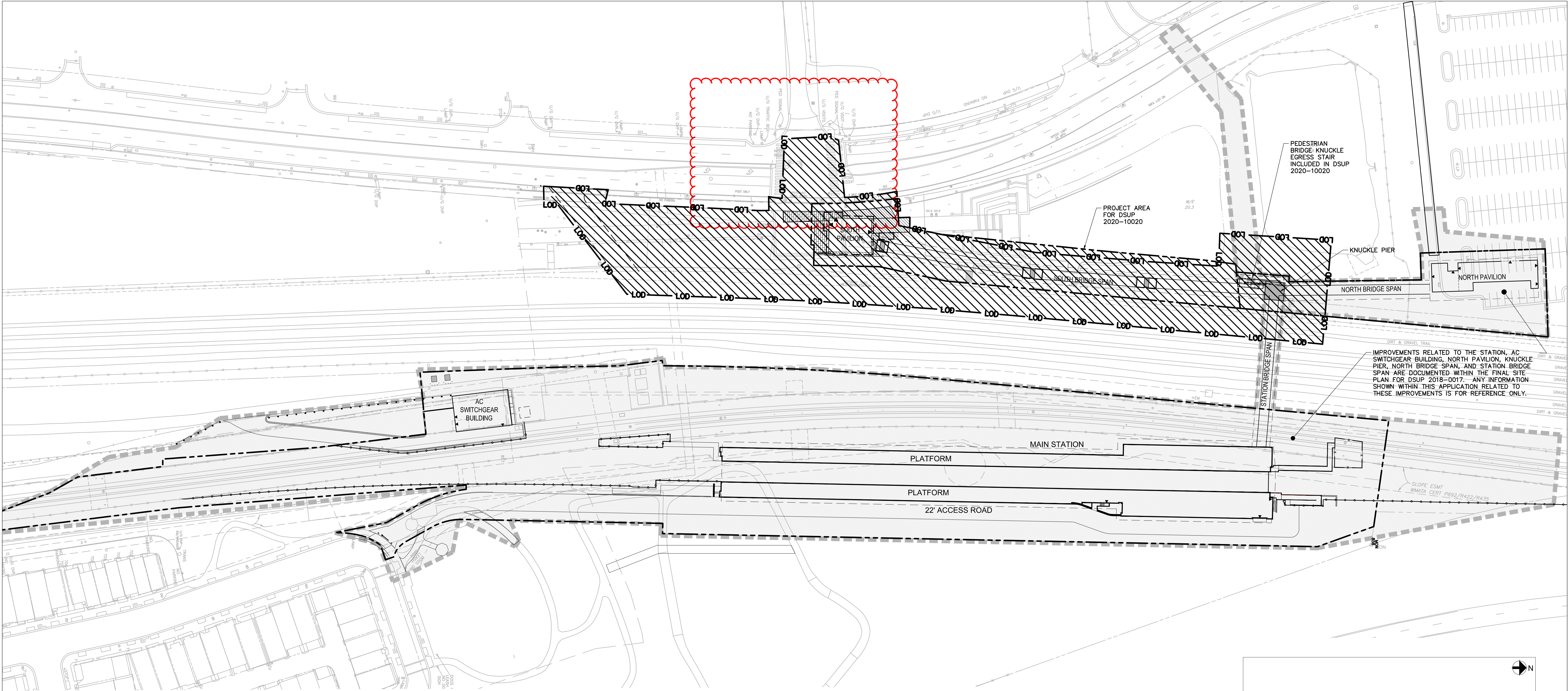
1. ALL PROTECTION AND PRESERVATION MEASURES FOR EXISTING VEGETATION, INCLUDING MAINTENANCE AND PENALTIES SHALL BE PREPARED IN COMPLIANCE WITH LANDSCAPE GUIDELINES OF THE CITY OF ALEXANDRIA AND APPROVED BY THE CITY ARBORIST IN-FIELD PRIOR TO COMMENCEMENT OF ANY SITE DISTURBING AND CONSTRUCTION ACTIVITIES.
2. ALL VEGETATION PRESERVATION AND PROTECTION METHODS SHALL BE APPROVED / VERIFIED IN FIELD BY THE CITY ARBORIST PRIOR TO COMMENCEMENT OF ANY GROUND / DISTURBING ACTIVITY.
3. LOCATION AND METHOD FOR PROTECTION AND PRESERVATION OF EXISTING TREES WILL BE SHOWN ON DEMOLITION, SEDIMENT AND EROSION CONTROL, AND LANDSCAPE PLAN SHEETS.
4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAKE SURE THAT ANY EXISTING LANDSCAPING WHICH IS TO BE RELOCATED ON THE SITE WILL BE CAREFULLY STORED IN A DESIGNATED AREA BEFORE BEING REPLANTED. COORDINATION WITH THE OWNER FOR MUTUALLY AGREEABLE STORAGE LOCATIONS FOR LANDSCAPE MATERIAL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPLACEMENT OF PLANT MATERIAL THAT DOES NOT SURVIVE STORAGE AND REPLANTING.
5. APPLICANT MUST INCLUDE ON THE PLAN DOCUMENTATION OF COMMUNICATION WITH THE ADJACENT PROPERTY OWNER(S) VERIFYING NOTIFICATION OF AND AGREEMENT WITH CONSTRUCTION IMPACT, POTENTIAL FOR LOSS, AND AGREED UPON REMEDIAL MEASURES PERTAINING TO THE EXISTING TREE(S) ON ADJACENT PROPERTIES THAT WILL BE AFFECTED BY PROJECT WORK.
6. INCLUDE SPECIFIC CONSTRUCTION STAGING INFORMATION ON THE PLAN THAT INDICATES THE METHODS, AND PROCEDURES TO BE IMPLEMENTED FOR PROTECTION OF EXISTING ONE-SITE AND TWO-SITE VEGETATION.
7. PROPOSED PLANTING SHALL BE PROVIDED IN COMPLIANCE WITH LANDSCAPE GUIDELINES OF THE CITY OF ALEXANDRIA.
8. SPECIFICATION FOR ALL PLANTINGS SHALL BE IN ACCORDANCE WITH THE CURRENT AND MOST UP-TO DATE EDITION OF ANSI-Z60.1, THE AMERICAN STANDARD FOR NURSERY STOCK AS PRODUCED BY THE AMERICAN ASSOCIATION OF NURSERYMEN; WASHINGTON, D.C.
9. THE APPLICANT SHALL MAKE SUITABLE ARRANGEMENTS FOR PRE-SELECTION TAGGING, PRE-CONTRACT GROWING, OR IS UNDERTAKING SPECIALIZED PLANTING STOCK DEVELOPMENT WITH A NURSERY OR GROWER THAT IS CONVENIENTLY LOCATED TO THE PROJECT SITE, OR UTILIZING OTHER PROCEDURES THAT WILL ENSURE AVAILABILITY OF SPECIFIED MATERIALS. IN THE EVENT THAT SHORTAGES AND/OR INABILITY TO OBTAIN SPECIFIED PLANTINGS OCCURS, REMEDIAL EFFORTS INCLUDING SPECIES CHANGES, ADDITIONAL PLANTINGS AND MODIFICATION TO THE LANDSCAPE PLAN SHALL BE UNDERTAKEN BY THE APPLICANT. ALL REMEDIAL EFFORTS SHALL, WITH PRIOR APPROVAL BY THE CITY, BE PERFORMED TO THE SATISFACTION OF THE DIRECTORS OF PLANNING & ZONING, RECREATION, PARKS & CULTURAL ACTIVITIES AND TRANSPORTATION & ENVIRONMENTAL SERVICES.
10. IN LIEU OF MORE STRENUOUS SPECIFICATIONS, ALL LANDSCAPE RELATED WORK SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE CURRENT AND MOST UP-TO-DATE EDITION (AT TIME OF BID) OF LANDSCAPE SPECIFICATION GUIDELINES AS PRODUCED BY THE LANDSCAPE CONTRACTORS ASSOCIATION OF MARYLAND, DISTRICT OF COLUMBIA AND VIRGINIA; GAITHERSBURG, MARYLAND.
11. PRIOR TO THE COMMENCEMENT OF THE LANDSCAPE INSTALLATION/PLANTING OPERATIONS, A PRE-INSTALLATION/CONSTRUCTION MEETING WILL BE SCHEDULED WITH THE CITY'S ARBORIST AND LANDSCAPE ARCHITECTS TO REVIEW THE SCOPE OF INSTALLATION PROCEDURES AND PROCESSES.
12. MAINTENANCE FOR THIS PROJECT SHALL BE PERFORMED IN PERPETUITY BY THE APPLICANT/OWNER/SUCCESSOR, IN COMPLIANCE WITH CITY OF ALEXANDRIA LANDSCAPE GUIDELINES AND/OR AS CONDITIONED BY PROJECT APPROVAL.

1. A SEPARATE PERMIT IS REQUIRED FOR DEMOLITION; HOWEVER, NO DEMOLITION SHALL BEGIN UNTIL ALL EROSION AND SEDIMENT AND TREE PROTECTION CONTROLS ARE IN PLACE AND ARE APPROVED BY AN EROSION AND SEDIMENT CONTROL INSPECTOR OF THE DEPARTMENT OF TRANSPORTATION AND ENVIRONMENTAL SERVICES.
2. ALL WORK SHALL BE PERFORMED IN STRICT COMPLIANCE WITH THE MOST CURRENT APPLICABLE FEDERAL, STATE , AND LOCAL LAWS AND REGULATIONS, INCLUDING BUT NOT LIMITED, TO ENVIRONMENTAL PROTECTION AGENCY (EPA), OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA), VIRGINIA OCCUPATIONAL AND SAFETY HEALTH COMPLIANCE PROGRAM (VOSH ENFORCEMENT), VIRGINIA OVERHEAD HIGH VOLTAGE LINE SAFETY ACT, NATIONAL EMISSIONS STANDARDS FOR HAZARDOUS AIR POLLUTANTS (NESHAPS), AND NATIONAL INSTITUTE OF OCCUPATIONAL SAFETY AND HEALTH (NIOSH).
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF WORK WITH REPRESENTATIVE UTILITY COMPANIES AND FOR THE IMPLEMENTATION OF REQUIRED UTILITY-RELATED WORK.
4. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER'S REPRESENTATIVE UPON ENCOUNTERING ANY HAZARDOUS MATERIALS DURING DEMOLITION AND/OR CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL DOCUMENT SAME TO THE OWNER'S REPRESENTATIVE AND OBTAIN DIRECTION AS TO THE APPROPRIATE ACTION(S) TO BE TAKEN.
5. DISCONNECTION OF SERVICES AND SYSTEMS SUPPLYING UTILITIES TO BE ABANDONED OR DEMOLISHED SHALL BE COMPLETED PRIOR TO OTHER SITE DEMOLITION IN FULL COMPLIANCE WITH APPLICABLE CODES, REGULATIONS, AND THE REQUIREMENTS OF UTILITY PURVEYORS HAVING JURISDICTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH THE UTILITY PURVEYORS, PAYMENT OF ASSOCIATED FEES AND PROCUREMENT OF ALL NECESSARY PERMITS.
6. PRIOR TO REMOVAL OF MATERIALS OVER EXISTING UTILITY SYSTEMS, THE CONTRACTOR SHALL DOCUMENT EXISTING CONDITIONS AND, IF AT VARIANCE WITH CONDITIONS AS REPRESENTED ON THE PLANS, NOTIFY THE OWNER'S REPRESENTATIVE AND OBTAIN DIRECTIONS AS TO THE APPROPRIATE ACTION(S) TO BE TAKEN.
7. THE CONTRACTOR SHALL BACKFILL EXCAVATED AREAS WITH APPROVED MATERIALS / CLEAN FILL AS PER THE REQUIREMENTS OF VIRGINIA DEPARTMENT OF TRANSPORTATION (VDOT).
8. THE CONTRACTOR SHALL PROTECT AND PREVENT DAMAGE TO EXISTING ON-SITE UTILITY DISTRIBUTION FACILITIES THAT ARE TO REMAIN. ACTIVE UTILITY DISTRIBUTION FACILITIES ENCOUNTERED DURING DEMOLITION AND/OR CONSTRUCTION ACTIVITIES SHALL BE SHUT OFF AT THE SERVICE MAIN WITH THE APPROVAL OF THE OWNER'S REPRESENTATIVE.

1. THE EXISTING UNDERGROUND UTILITIES SHOWN HEREON ARE BASED UPON AVAILABLE INFORMATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION OF ALL UTILITIES BEFORE COMMENCING WORK AND FOR ANY DAMAGES WHICH MAY OCCUR BY HIS FAILURE TO LOCATE OR PRESERVE THESE UNDERGROUND UTILITIES. IF DURING CONSTRUCTION OPERATIONS, THE CONTRACTOR SHOULD ENCOUNTER UTILITIES OTHER THAN THOSE SHOWN ON THE PLANS, HE SHALL IMMEDIATELY NOTIFY THE ENGINEER AND TAKE NECESSARY ACTION AND PROPER STEPS TO PROTECT THE FACILITY AND ASSURE THE CONTINUATION OF SERVICE.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE OWNER AND THE ENGINEER OF ANY CHANGES OR CONDITIONS ATTACHED TO PERMITS OBTAINED FROM ANY AUTHORITY ISSUING PERMITS.
3. THE CONTRACTOR SHALL VISIT THE SITE AND SHALL VERIFY EXISTING CONDITIONS PRIOR TO STARTING CONSTRUCTION.
4. THE CONTRACTOR SHALL CLEAR THE SITE OF ALL TREES, BUILDINGS, FOUNDATIONS, ETC., WITHIN THE LIMITS OF CONSTRUCTION UNLESS OTHERWISE SPECIFIED, AND SHALL BE RESPONSIBLE FOR ENSURING THAT EXISTING UTILITIES ARE DISCONNECTED, AS REQUIRED TO COMPLETE THE WORK.
5. THE DEVELOPER SHALL PROVIDE OVER-LOT GRADING TO PROVIDE POSITIVE DRAINAGE AND PRECLUDE PONDING OF WATER.
6. ALL AREAS, ON OR OFF-SITE, WHICH ARE DISTURBED BY THIS CONSTRUCTION AND WHICH ARE NOT PAVED OR BUILT UPON, SHALL BE ADEQUATELY STABILIZED TO CONTROL EROSION AND SEDIMENTATION. THE MINIMUM ACCEPTABLE STABILIZATION SHALL CONSIST OF PERMANENT GRASS, SEED MIXTURE TO BE AS RECOMMENDED BY THE CITY ENGINEER. ALL SLOPES 3:1 AND GREATER SHALL BE SODDED AND PEGGED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE CITY OF ALEXANDRIA.
7. ALL ABOVE GROUND UTILITIES SERVING THE SITE SHALL BE RELOCATED AS REQUIRED BY THE OWNING UTILITY COMPANIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING ALL ARRANGEMENTS AND COORDINATING ALL WORK REQUIRED FOR THE NECESSARY RELOCATIONS.
8. PRIOR TO BEGINNING OF CONSTRUCTION, CONTRACTOR SHALL VERIFY FROM THE ARCHITECTURAL DRAWINGS ALL DIMENSIONS, DETAILS, AND TREATMENTS FOR THE PROPOSED BUILDINGS, WALKWAYS, AND OTHER PROPOSED CONSTRUCTION WHERE INDICATED ON THE PLANS.
9. THE CONTRACTOR IS TO VERIFY INVERT, SIZE, AND LOCATION OF BUILDING UTILITY CONNECTIONS WITH THE MECHANICAL PLANS PRIOR TO PLACEMENT OF UNDERGROUND UTILITIES.
10. EXISTING BUILDINGS, FENCES AND OTHER EXISTING PHYSICAL FEATURES ARE TO BE REMOVED AS REQUIRED BY THE CONSTRUCTION.
11. EXISTING CONSTRUCTION SHALL BE REMOVED TO NEAREST JOINT. NEW CONSTRUCTION SHALL BE PROVIDED AS SHOWN AND ANY DAMAGED AREA SHALL BE REPAIRED TO MATCH CONDITIONS EXISTING PRIOR TO CONSTRUCTION OR TO THE SATISFACTION OF DIRECTOR OF TRANSPORTATION AND ENVIRONMENTAL SERVICES.
12. ALL PRIVATE BUILDING CONNECTIONS ARE TO BE INSTALLED IN ACCORDANCE WITH THE CURRENT PLUMBING CODE.
13. TOPS OF EXISTING STRUCTURES WHICH REMAIN IN USE ARE TO BE ADJUSTED IN ACCORDANCE WITH THE GRADING PLAN. ALL PROPOSED STRUCTURE TOP ELEVATIONS ARE TO BE VERIFIED BY THE CONTRACTOR WITH THE SITE GRADING PLANS. IN CASE OF CONFLICT, THE GRADING PLAN SHALL SUPERSEDE PROFILE ELEVATIONS. MINOR ADJUSTMENTS TO MEET FINISHED GRADE ELEVATIONS, IF REQUIRED, SHALL BE MADE IN THE FIELD WITH THE APPROVAL OF SITE INSPECTOR OF THE DEPARTMENT OF TRANSPORTATION AND ENVIRONMENTAL SERVICES.
14. THE DESIGN, CONSTRUCTION, FIELD PRACTICES, AND METHODS SHALL CONFORM TO THE REQUIREMENTS SET FORTH BY THE CITY OF ALEXANDRIA ZONING ORDINANCE AND DESIGN AND CONSTRUCTION STANDARDS MANUAL. FAILURE TO COMPLY WITH THE CODE, APPLICABLE MANUALS, AND PROVISIONS OF THE CONSTRUCTION AND ESCROW AGREEMENTS OR THE PERMITS SHALL BE DEEMED A VIOLATION.
15. THE APPROVAL OF THESE PLANS SHALL IN NO WAY RELIEVE THE OWNER/DEVELOPER OR HIS AGENT OF ANY LEGAL RESPONSIBILITIES WHICH MAY BE REQUIRED BY THE CODE OF VIRGINIA OR ANY ORDINANCE ENACTED BY THE CITY OF ALEXANDRIA.
16. CONSTRUCTION TAKEOUT SHALL BE UNDER THE DIRECT SUPERVISION OF A LICENSED LAND SURVEYOR IN THE COMMONWEALTH OF VIRGINIA.
17. THE CONTRACTOR IS REFERRED TO STRUCTURAL, GEOTECHNICAL, MECHANICAL, AND ARCHITECTURAL PLANS FOR FOUNDATION TREATMENT INCLUDING, BUT NOT LIMITED TO, SHEETING AND SHORING FOR BUILDING EXCAVATION, WATERPROOFING FOR FILL AGAINST BUILDINGS, LOCATION OF MECHANICAL EQUIPMENT, AND CONNECTIONS AT THE FACES OF BUILDINGS.
18. SMOOTH GRADE SHALL BE MAINTAINED FROM THE CENTERLINE OF THE EXISTING ROAD TO THE PROPOSED ENTRANCE AND/OR CURB & GUTTER TO PRECLUDE THE FORMING OF FALSE GUTTER AND/OR PONDING OF WATER ON THE ROADWAY.
19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING A SMOOTH TRANSITION TO EXISTING CURB AND SIDEWALKS, IF APPLICABLE.
20. THE THICKNESS OF SUB-BASE, BASE, AND WEARING COURSE SHALL BE DESIGNED USING "CALIFORNIA METHOD" AS SET FORTH ON PAGE 3-76 OF THE SECOND EDITION OF A BOOK ENTITLED, "DATA BOOK FOR CIVIL ENGINEERS, VOLUME ONE, DESIGN" WRITTEN BY ELYWYN E. SEELYE, AN ALTERNATE PAVEMENT SECTION DESIGNED TO THE SATISFACTION OF DIRECTOR, TRANSPORTATION AND ENVIRONMENTAL SERVICES FOR ALL PAVEMENTS INCLUDING EMERGENCY VEHICLE EASEMENT (EVE) TO SUPPORT H-20 LOADING BASED ON CBR AND VIRGINIA DEPARTMENT OF TRANSPORTATION (VDOT) METHOD (VASWANI METHOD) AND STANDARD MATERIAL SPECIFICATIONS SHALL BE ACCEPTABLE.
21. ALL STRIPING SHALL MEET THE REQUIREMENTS OF MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) STANDARDS (LATEST EDITION) AND SHALL BE THERMOPLASTIC UNLESS OTHERWISE SPECIFIED.
22. ALL EARTHWORK OPERATIONS ARE TO BE PERFORMED UNDER THE FULL TIME, ON-SITE SUPERVISION OF A REGISTERED GEOTECHNICAL ENGINEER WITH GEOTECHNICAL TESTING IN ACCORDANCE WITH CONSTRUCTION SPECIFICATIONS AND GEOTECHNICAL REPORT REQUIREMENTS.
23. THE CONTRACTORS SHALL NOT CAUSE OR PERMIT VEHICLES TO IDLE FOR MORE THAN 10 MINUTES WHEN PARKED.
24. UNLESS OTHERWISE APPROVED THE CONTRACTOR SHALL PROVIDE THERMOPLASTIC LADDER STYLE / STANDARD PEDESTRIAN CROSS WALKS AT ALL CROSSINGS AT THE PROPOSED DEVELOPMENT, WHICH MUST BE DESIGNED TO THE SATISFACTION OF THE DIRECTOR OF TRANSPORTATION AND ENVIRONMENTAL SERVICES. THE DESIGN OF LADDER STYLE OR STANDARD PEDESTRIAN CROSS WALK SHALL BE EVALUATED ON A CASE BY CASE BASIS AND SHALL COMPLY WITH THE REQUIREMENTS OF POLICY MANUAL SECTION 30.18.1 PEDESTRIAN CROSSWALKS, JULY 13, 2006. A COPY OF THE POLICY MANUAL CAN BE

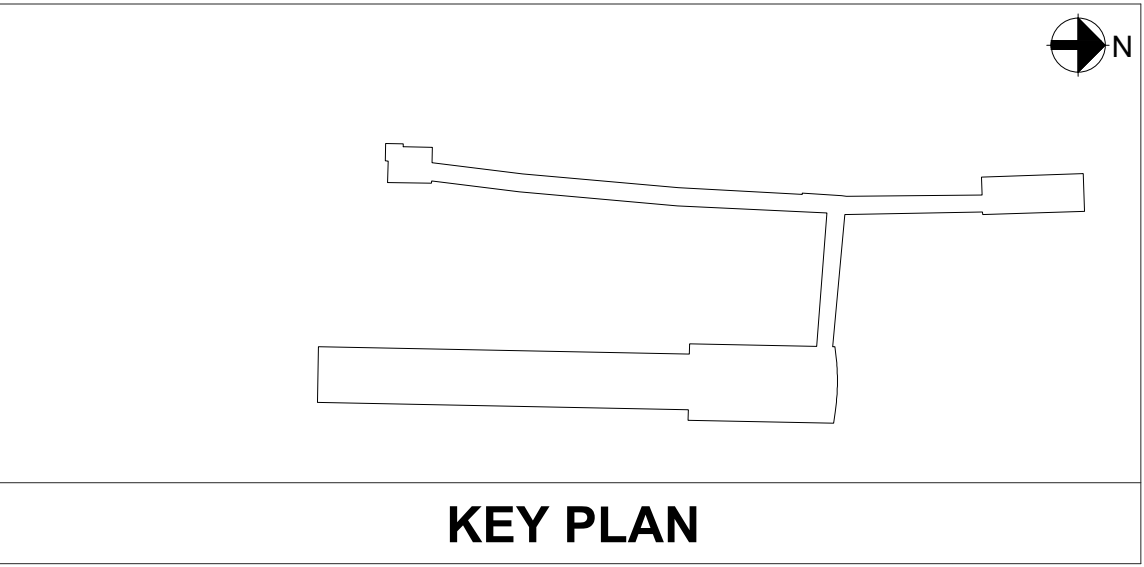
ARUP

M NO.	CONTRACT NO.	SCALE:	DRAWING NO.	SHEET NO.
M1316	FQ16146	NTS	G-005	5 OF 60



NOTE:
THIS APPLICATION IS FOR APPROVAL OF THE SOUTH PAVILION ENTRANCE AND BRIDGE SPAN SOUTH OF THE KNUCKLE PIER INCLUDING THE KNUCKLE PIER AND EGRESS STAIR PER DSUP 2020-10020. ALL OTHER SITE INFORMATION IS RELATED TO THE PREVIOUSLY APPROVED DSUP 2018-0017 AND SHOWN FOR REFERENCE ONLY.

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. _____



WMATA LDP
COORDINATE
SYSTEM



PROFESSIONAL CERTIFICATION:
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF VIRGINIA.

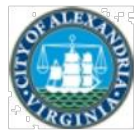
LICENSE NO.
EXPIRATION DATE:

			REFERENCE DRAWINGS		REVISIONS	
			NUMBER	DESCRIPTION	DATE	NUM DESCRIPTION
DESIGNED	MSP	09/09/2020			10/07/2020	1 FSP #2
DRAWN	AW	09/09/2020				
CHECKED	JD	09/09/2020				
APPROVED	TW	09/09/2020				

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY	
DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES	
OFFICE OF THE CHIEF ENGINEER, INFRASTRUCTURE	
SUBMITTED _____	DATE _____
APPROVED _____	DATE _____
DIRECTOR _____	

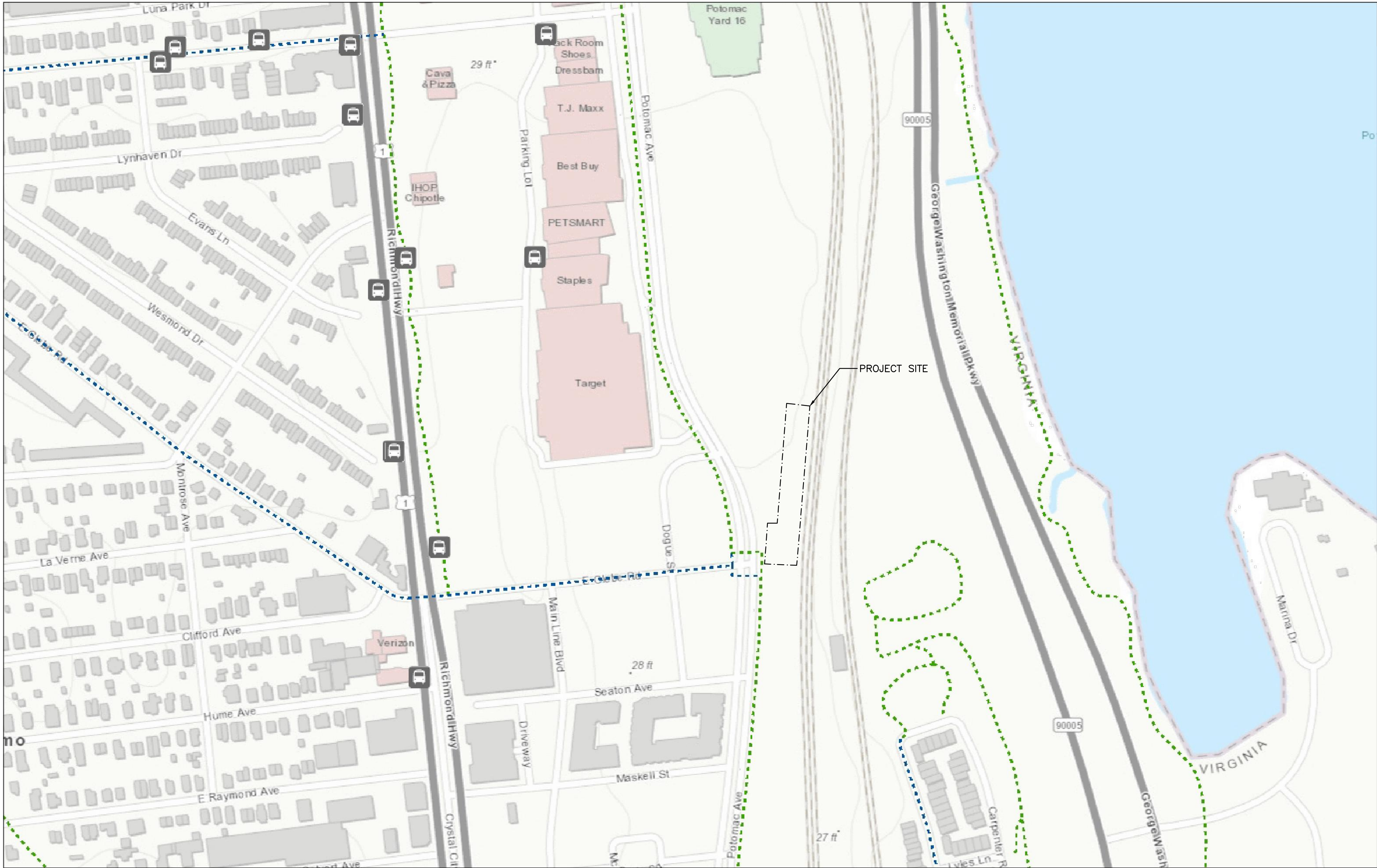


POTOMAC YARD METRORAIL STATION				
SOUTH PAVILION, BRIDGE SPAN, AND KNUCKLE EGRESS STAIR				
FINAL SITE PLAN				
CONTEXTUAL PLAN - PHASING				
M NO. M1316	CONTRACT NO. FQ16146	SCALE: 1" = 20'	DRAWING NO. G-010	SHEET NO. 6 OF 60



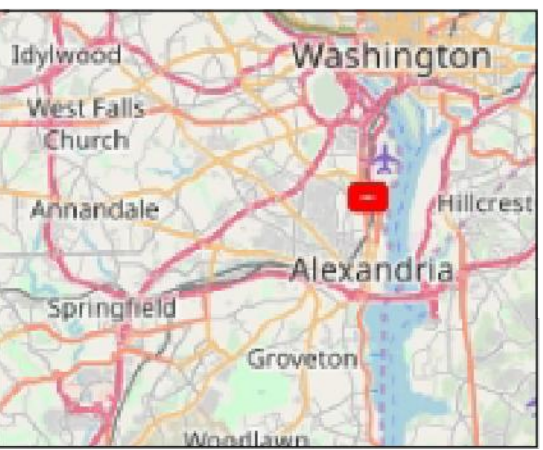
City of Alexandria, Virginia

Map Title



752.3 0 376.17 752.3 Feet
WGS_1984_Web_Mercator_Auxiliary_Sphere
City of Alexandria, VA

This map is a user generated static output from an Internet mapping site and is for reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable.
THIS MAP IS NOT TO BE USED FOR NAVIGATION



- Legend
- M Metro Train Service
 - CB Bike Share Locations
 - B Bus Stops
 - SC Scooter Corrals
 - Z Zip Car Locations
 - Trails
 - Bike Trails
 - Nature Trails
 - Multi-Purpose



Notes
This map was automatically generated using Geocortex Essentials.

APPROVED

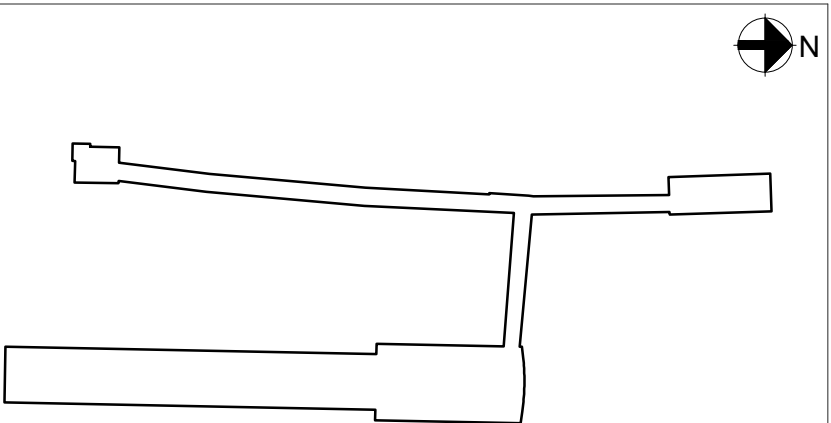
SPECIAL USE PERMIT NO. _____
DEPARTMENT OF PLANNING & ZONING

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

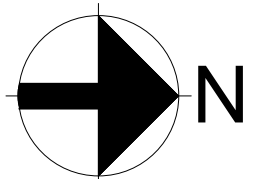
CHAIRMAN, PLANNING COMMISSION _____ DATE _____

DATE RECORDED _____

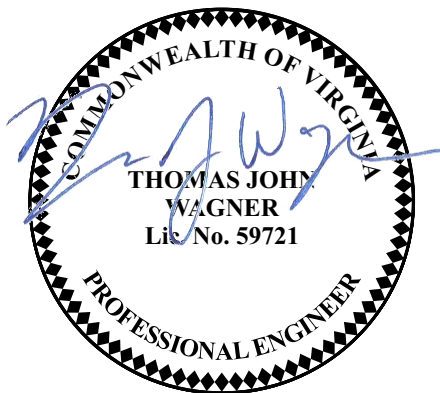
INSTRUMENT NO. _____ DEED BOOK NO. _____ PAGE NO. _____



KEY PLAN



WMATA LDP
COORDINATE
SYSTEM



PROFESSIONAL CERTIFICATION:
I HEREBY CERTIFY THAT THESE DOCUMENTS
WERE PREPARED OR APPROVED BY ME, AND
THAT I AM A FULLY LICENSED PROFESSIONAL
ENGINEER UNDER THE LAWS OF THE STATE
OF VIRGINIA.

LICENSE NO. _____
EXPIRATION DATE: _____

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES
OFFICE OF THE CHIEF ENGINEER, INFRASTRUCTURE

SUBMITTED _____ DATE _____
APPROVED _____ DATE _____
DIRECTOR _____



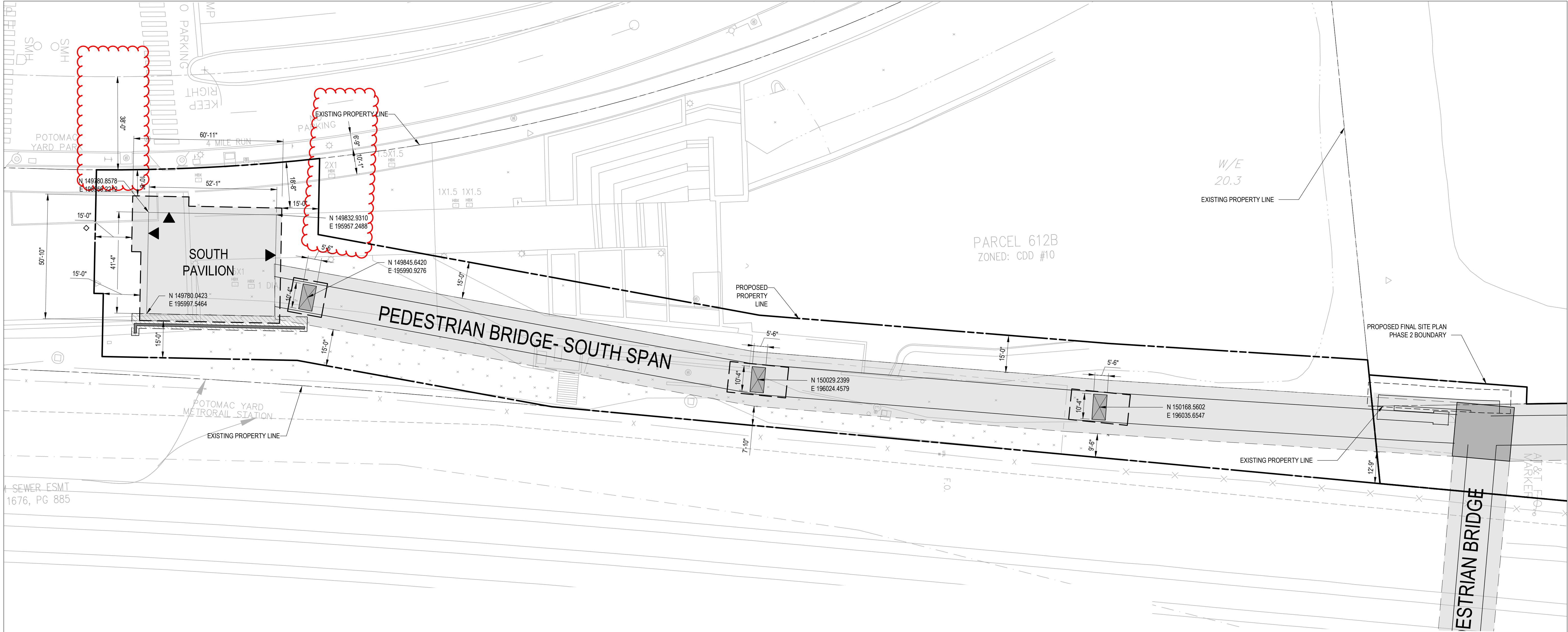
ARUP

POTOMAC YARD METRORAIL STATION
SOUTH PAVILION, BRIDGE SPAN, AND KNUCKLE EGRESS STAIR
FINAL SITE PLAN

CONTEXTUAL PLAN - BUS STOPS

M NO. M1316 CONTRACT NO. FQ16146 SCALE: NTS DRAWING NO. G-011 SHEET NO. 7 OF 60

		DATE	REFERENCE DRAWINGS		REVISIONS	
			NUMBER	DESCRIPTION	DATE	DESCRIPTION
DESIGNED	MSP	09/09/2020				
DRAWN	AW	09/09/2020				
CHECKED	JD	09/09/2020				
APPROVED	TW	09/09/2020				



- ARCHAEOLOGY NOTES:
- 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.
 - THE APPLICANT SHALL CALL ALEXANDRIA ARCHAEOLOGY IMMEDIATELY (703-838-4399) IF ANY BURIED STRUCTURAL REMAINS (WALL FOUNDATIONS, WELLS, PRIVIES, CISTERNS, ETC.) OR CONCENTRATIONS OF ARTIFACTS ARE DISCOVERED DURING DEVELOPMENT. WORK MUST CEASE IN THE AREA OF THE DISCOVERY UNTIL A CITY ARCHAEOLOGIST COMES TO THE SITE AND RECORDS THE FINDS.
 - THE 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.

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

DIRECTOR _____ DATE _____

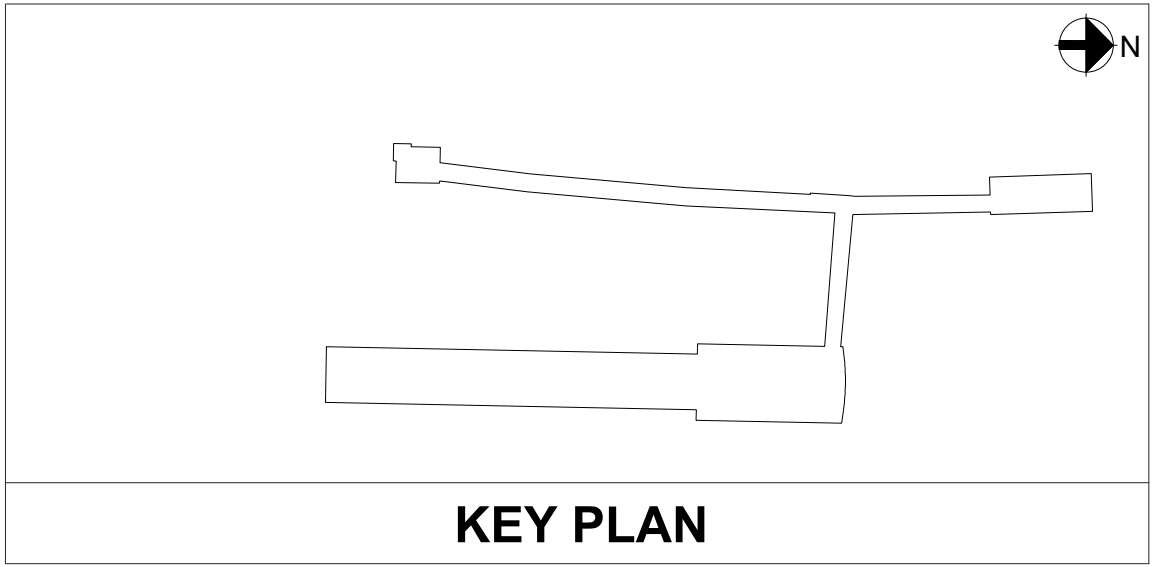
DEPARTMENT OF TRANSPORTATION & ENVIRONMENTAL SERVICES
SITE PLAN NO. _____

DIRECTOR _____ DATE _____

CHAIRMAN, PLANNING COMMISSION _____ DATE _____

DATE RECORDED _____

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



PROFESSIONAL CERTIFICATION:
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF VIRGINIA.

LICENSE NO. _____
EXPIRATION DATE: _____

8/31/2020 8:42 PM
FILE PATH: FSP #3

			REFERENCE DRAWINGS		REVISIONS		
			NUMBER	DESCRIPTION	DATE	NUM	DESCRIPTION
DESIGNED	MSP	09/09/2020			10/07/2020	1	FSP #2
DRAWN	AW	09/09/2020					
CHECKED	JD	09/09/2020					
APPROVED	TW	09/09/2020					

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES
OFFICE OF THE CHIEF ENGINEER, INFRASTRUCTURE

SUBMITTED _____ DATE _____
APPROVED _____ DATE _____
DIRECTOR _____

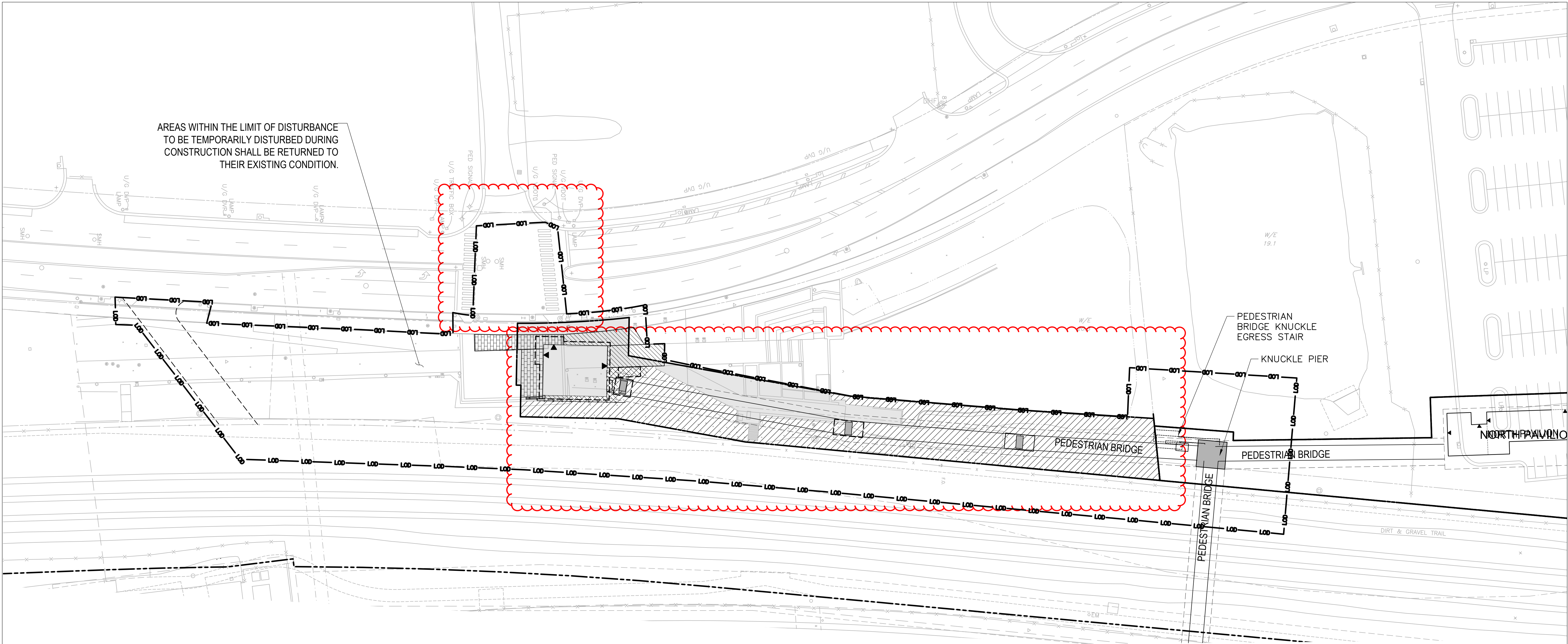


ARUP

POTOMAC YARD METRORAIL STATION
SOUTH PAVILION, BRIDGE SPAN, AND KNUCKLE EGRESS STAIR
FINAL SITE PLAN

DIMENSION PLAN					SHEET NO.
M NO.	CONTRACT NO.	SCALE:	DRAWING NO.		
M1316	FQ16146	1" = 10'	G-012		8 OF 60

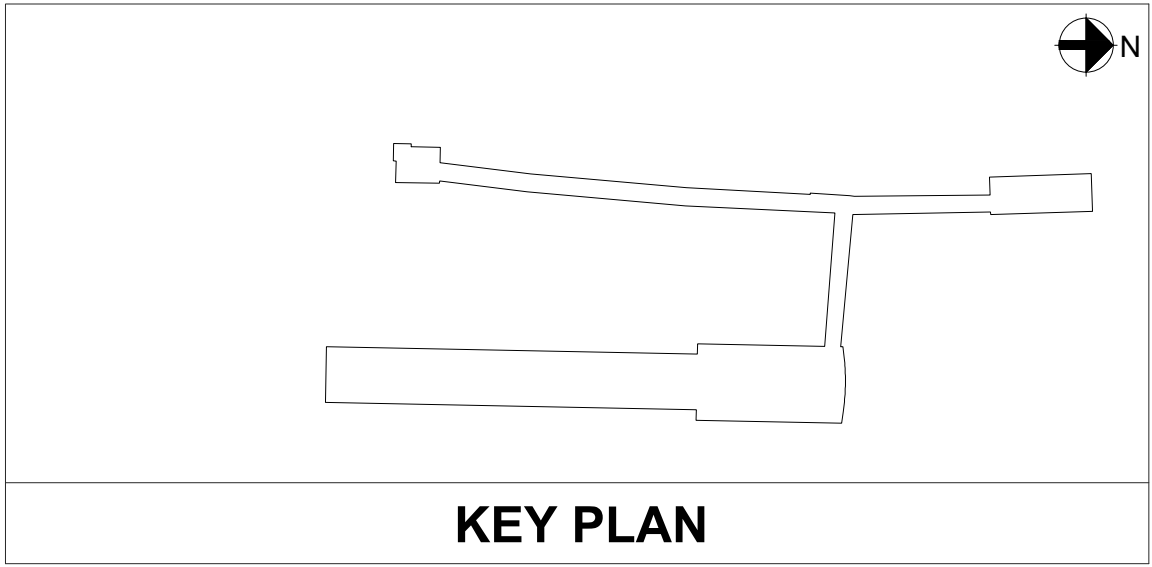
9/2/2020 3:22 PM
FILE PATH: C:\TEMP\UAS_TASK_62



AREAS WITHIN THE LIMIT OF DISTURBANCE
TO BE TEMPORARILY DISTURBED DURING
CONSTRUCTION SHALL BE RETURNED TO
THEIR EXISTING CONDITION.

NOTE:
THIS APPLICATION IS FOR APPROVAL OF THE SOUTH PAVILION ENTRANCE AND
BRIDGE SPAN SOUTH OF THE KNUCKLE PIER INCLUDING THE KNUCKLE PIER
AND EGRESS STAIR PER DSUP 2020-10020. ALL OTHER SITE INFORMATION
IS RELATED TO THE PREVIOUSLY APPROVED DSUP 2018-0017 AND SHOWN
FOR REFERENCE ONLY.

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.



PROFESSIONAL CERTIFICATION:
I HEREBY CERTIFY THAT THESE DOCUMENTS
WERE PREPARED OR APPROVED BY ME, AND
THAT I AM A FULLY LICENSED PROFESSIONAL
ENGINEER UNDER THE LAWS OF THE STATE
OF VIRGINIA.

LICENSE NO.
EXPIRATION DATE:

			REFERENCE DRAWINGS		REVISIONS	
			NUMBER	DESCRIPTION	DATE	NUM DESCRIPTION
DESIGNED	MSP	09/09/2020			10/07/2020	1 FSP #2
DRAWN	AW	09/09/2020				
CHECKED	JD	09/09/2020				
APPROVED	TW	09/09/2020				

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES
OFFICE OF THE CHIEF ENGINEER, INFRASTRUCTURE

SUBMITTED	DATE
APPROVED	DATE
DIRECTOR	DATE

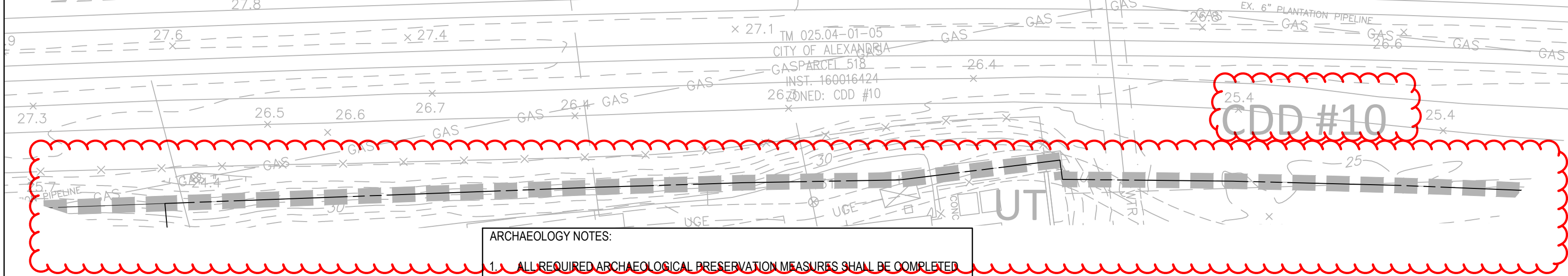
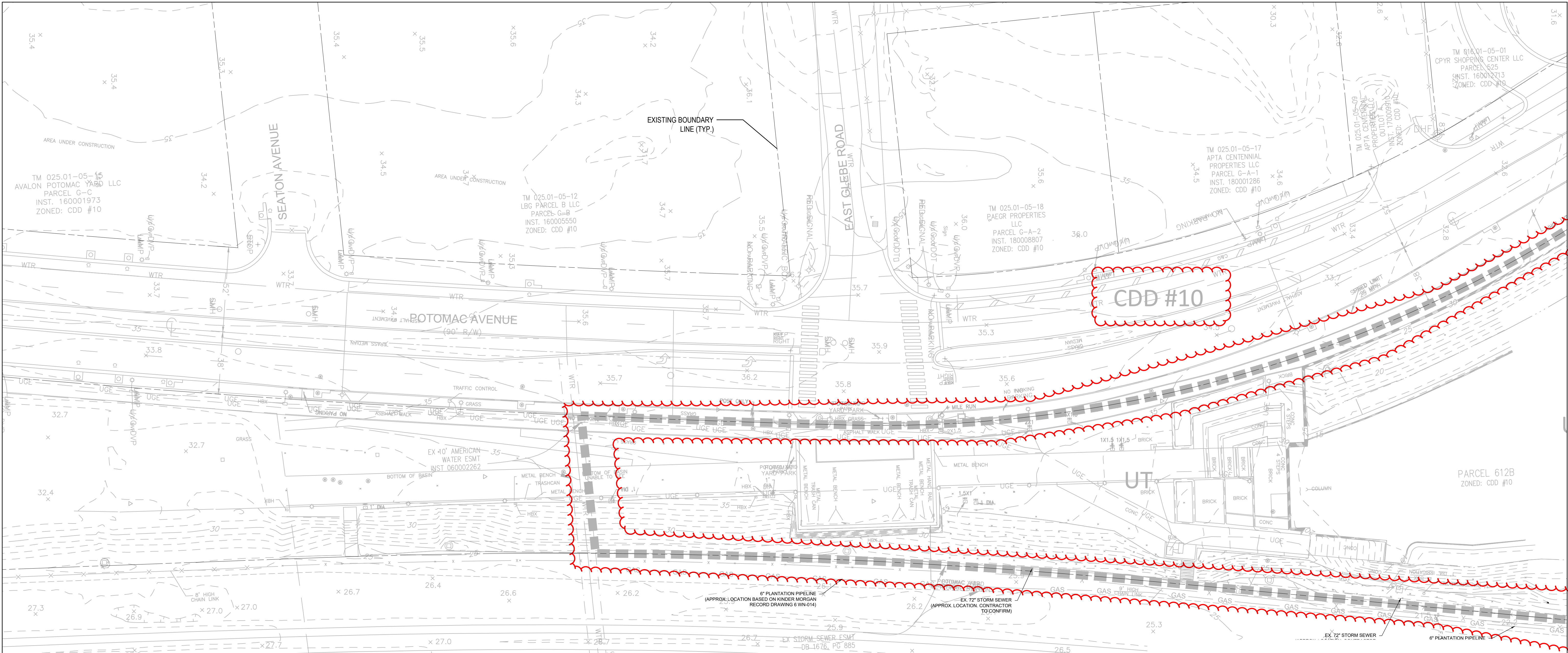


ARUP

POTOMAC YARD METRORAIL STATION
SOUTH PAVILION, BRIDGE SPAN, AND KNUCKLE EGRESS STAIR
FINAL SITE PLAN
OPEN SPACE PLAN

M NO.	CONTRACT NO.	SCALE:	DRAWING NO.	SHEET NO.
M1316	FQ16146	1" = 60'	G-013	9 OF 60

9/13/2020 2:49 PM
FILE PATH: C:\TEMP\JAS_TASK_62



NOTE:
1) REFER TO DRAWING G-003 FOR LEGEND AND ABBREVIATIONS.

ARCHAEOLOGY NOTES:
1. 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.
2. THE APPLICANT SHALL CALL ALEXANDRIA ARCHAEOLOGY IMMEDIATELY (703-838-4399) IF ANY BURIED STRUCTURAL REMAINS (WALL FOUNDATIONS, WELLS, PRIVIES, CISTERNS, ETC.) OR CONCENTRATIONS OF ARTIFACTS ARE DISCOVERED DURING DEVELOPMENT. WORK MUST CEASE IN THE AREA OF THE DISCOVERY UNTIL A CITY ARCHAEOLOGIST COMES TO THE SITE AND RECORDS THE FINDS.
3. 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.

REFERENCE DRAWINGS			REVISIONS		
DESIGNED	DATE		NUMBER	DATE	DESCRIPTION
MSP	09/09/2020			10/07/2020	FSP #2
DRAWN	09/09/2020				
AW					
CHECKED	09/09/2020				
JD					
APPROVED	09/09/2020				
TW					

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES
OFFICE OF THE CHIEF ENGINEER, INFRASTRUCTURE

SUBMITTED _____ DATE _____
APPROVED _____ DATE _____
DIRECTOR _____



EXISTING CONDITIONS PLAN - SHEET 1 OF 2				
M NO.	CONTRACT NO.	SCALE:	DRAWING NO.	SHEET NO.
M1316	FQ16146	1" = 30'	C-101	10 OF 60

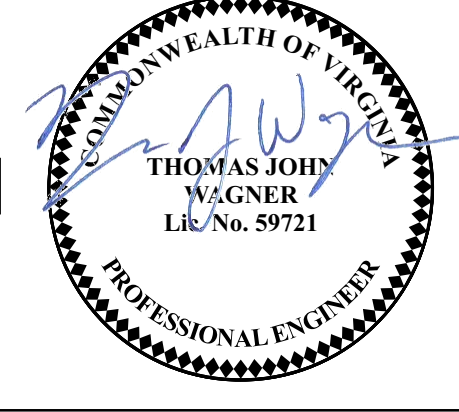
APPROVED
SPECIAL USE PERMIT NO. _____
DEPARTMENT OF PLANNING & ZONING

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

DIRECTOR _____ DATE _____

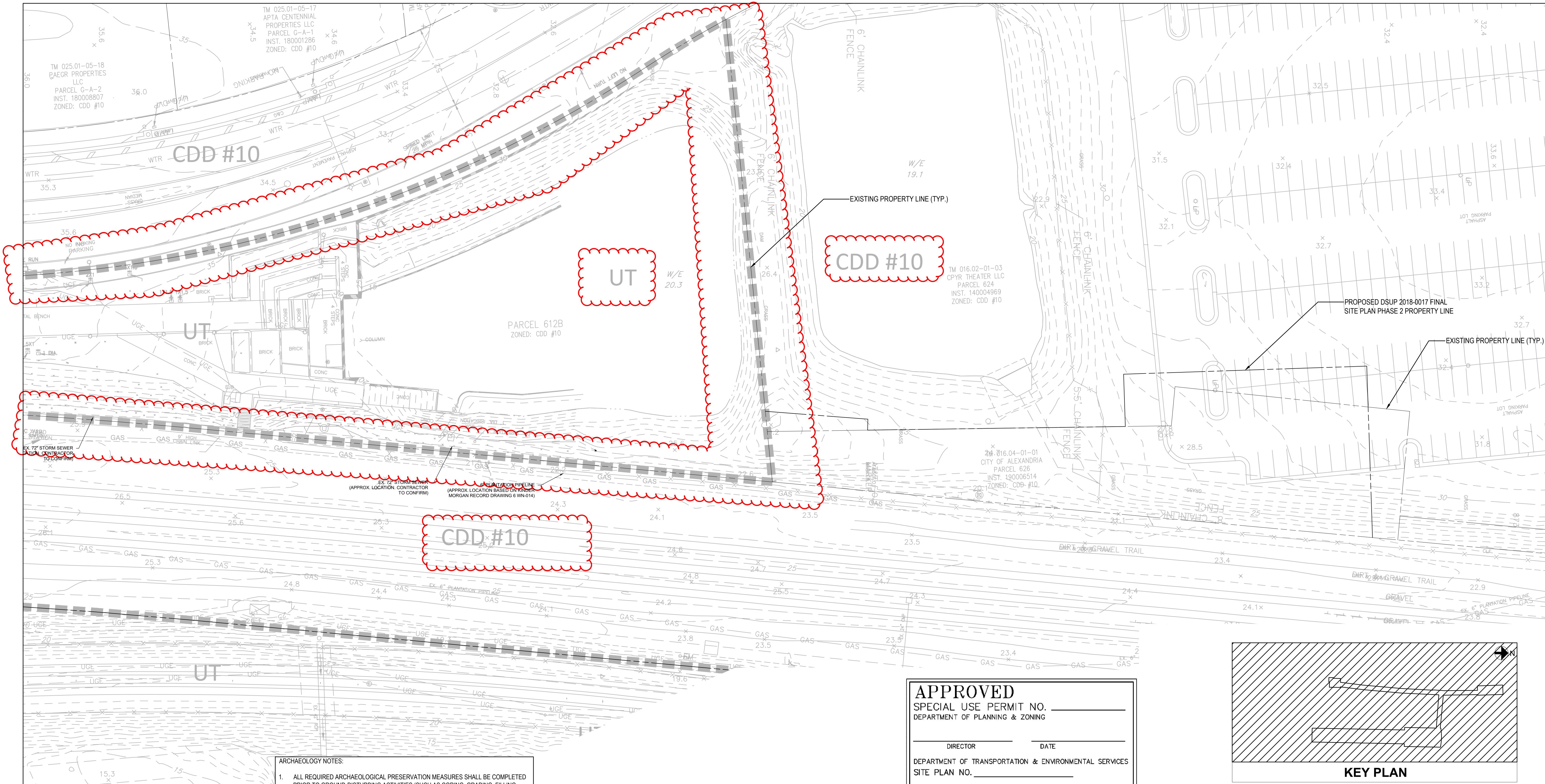
CHAIRMAN, PLANNING COMMISSION _____ DATE _____
DATE RECORDED _____
INSTRUMENT NO. _____ DEED BOOK NO. _____ PAGE NO. _____

0 60 120 180



PROFESSIONAL CERTIFICATION:
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF VIRGINIA.

LICENSE NO. _____
EXPIRATION DATE: _____



NOTE:
1) REFER TO DRAWING G-003 FOR LEGEND AND ABBREVIATIONS.

- ARCHAEOLOGY NOTES:
- 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.
 - THE APPLICANT SHALL CALL ALEXANDRIA ARCHAEOLOGY IMMEDIATELY (703-838-4399) IF ANY BURIED STRUCTURAL REMAINS (WALL FOUNDATIONS, WELLS, PRIVIES, CISTERNS, ETC.) OR CONCENTRATIONS OF ARTIFACTS ARE DISCOVERED DURING DEVELOPMENT. WORK MUST CEASE IN THE AREA OF THE DISCOVERY UNTIL A CITY ARCHAEOLOGIST COMES TO THE SITE AND RECORDS THE FINDS.
 - THE 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.

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 _____

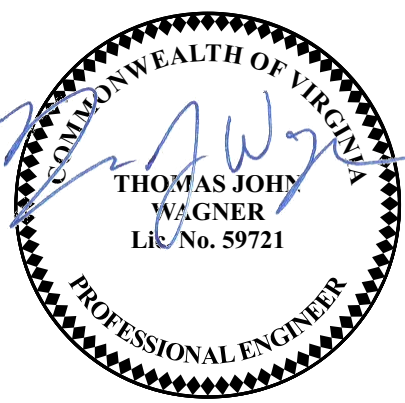
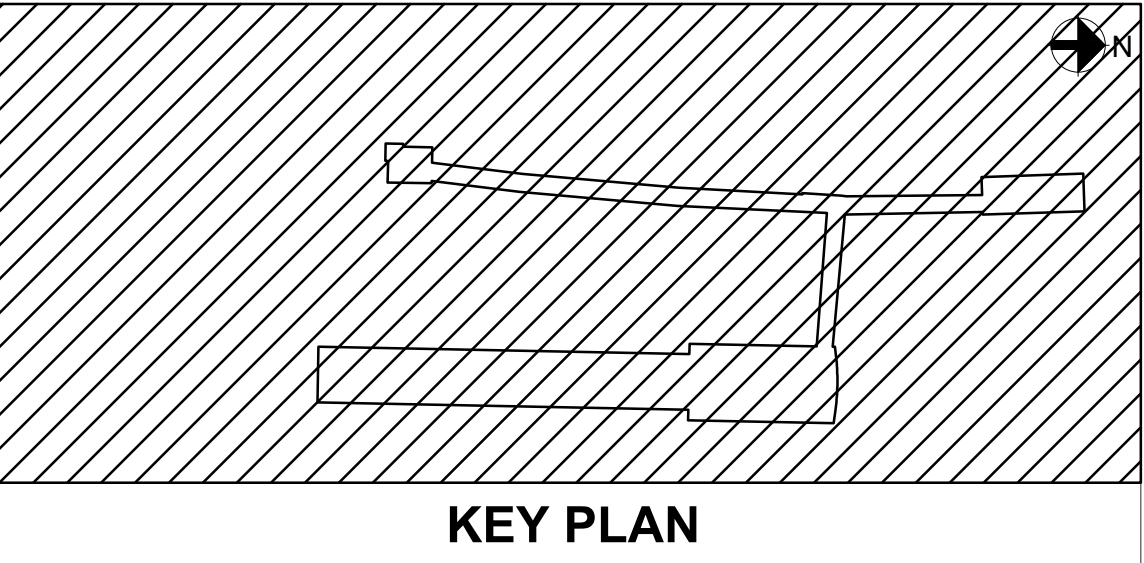
INSTRUMENT NO. _____ DEED BOOK NO. _____ PAGE NO. _____

060120

60

120

180



PROFESSIONAL CERTIFICATION:
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF VIRGINIA.

LICENSE NO.
EXPIRATION DATE:

DESIGNED			REFERENCE DRAWINGS			REVISIONS		
DESIGNED	MSP	09/09/2020	NUMBER	DESCRIPTION	DATE	NUM	DESCRIPTION	
DRAWN	AW	09/09/2020			10/07/2020	1	FSP #2	
CHECKED	JD	09/09/2020						
APPROVED	TW	09/09/2020						

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES
OFFICE OF THE CHIEF ENGINEER, INFRASTRUCTURE

SUBMITTED _____ DATE _____

APPROVED _____ DATE _____

DIRECTOR _____

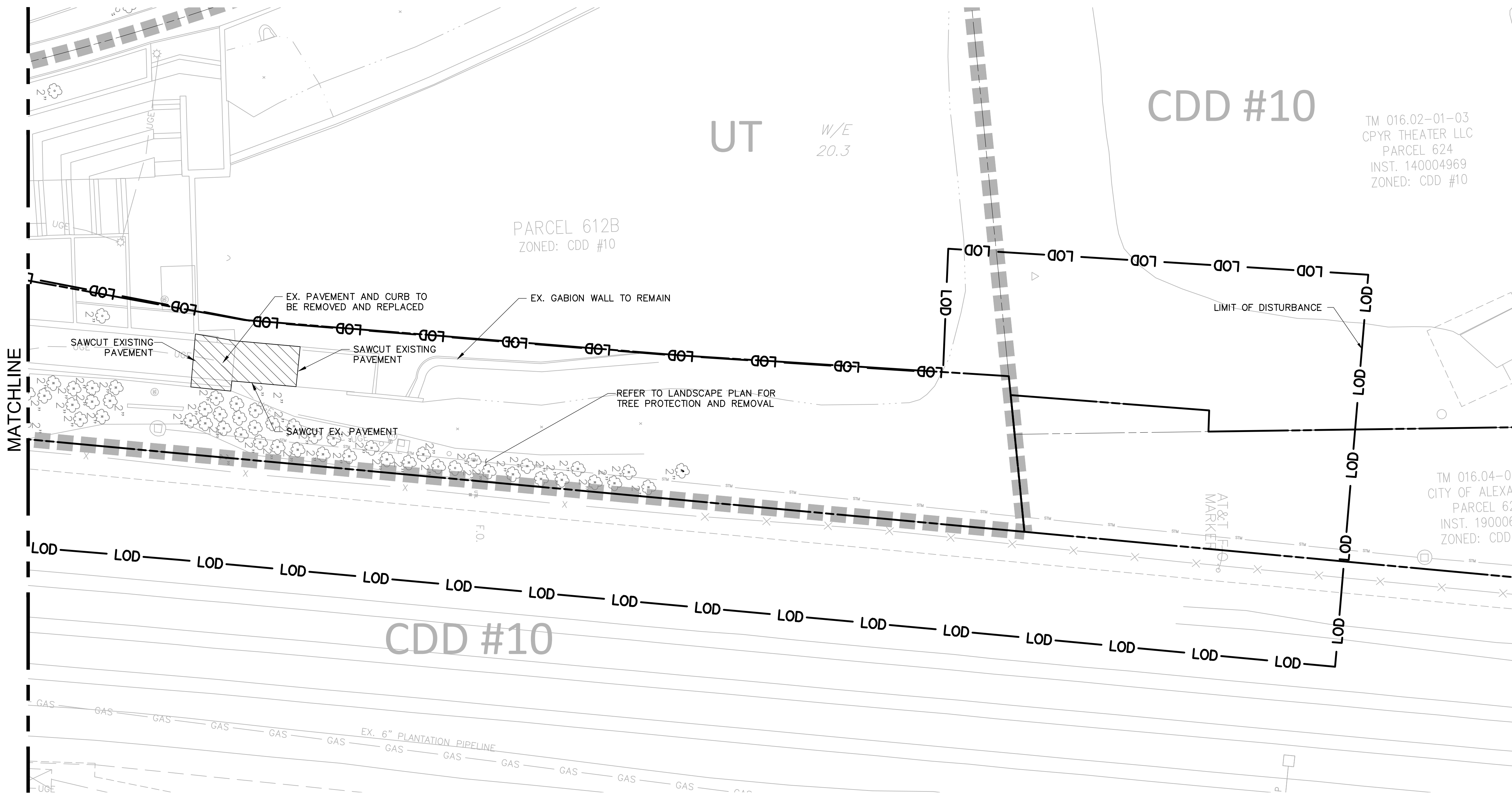


POTOMAC YARD METRORAIL STATION
SOUTH PAVILION, BRIDGE SPAN, AND KNUCKLE EGRESS STAIR
FINAL SITE PLAN

EXISTING CONDITIONS PLAN - SHEET 2 OF 2

M NO.	CONTRACT NO.	SCALE:	DRAWING NO.	SHEET NO.
M1316	FQ16146	1" = 30'	C-102	11 OF 60

9/17/2019 3:13 PM
FILE PATH: C:\TEMP\JAS_TASK_62



NOTES:
1) REFER TO DRAWING G-003 FOR LEGEND AND ABBREVIATIONS.

- ARCHAEOLOGY NOTES:
- 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.
 - THE APPLICANT SHALL CALL ALEXANDRIA ARCHAEOLOGY IMMEDIATELY (703-838-4399) IF ANY BURIED STRUCTURAL REMAINS (WALL FOUNDATIONS, WELLS, PRIVIES, CISTERNS, ETC.) OR CONCENTRATIONS OF ARTIFACTS ARE DISCOVERED DURING DEVELOPMENT. WORK MUST CEASE IN THE AREA OF THE DISCOVERY UNTIL A CITY ARCHAEOLOGIST COMES TO THE SITE AND RECORDS THE FINDS.
 - THE 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.

DESIGNED			REFERENCE DRAWINGS				REVISIONS		
	MSP	09/09/2020	NUMBER	DESCRIPTION	DATE	NUM	DESCRIPTION		
DRAWN	AW	09/09/2020			10/07/2020	1	FSP #2		
CHECKED	JD	09/09/2020							
APPROVED	TW	09/09/2020							

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES

OFFICE OF THE CHIEF ENGINEER, INFRASTRUCTURE

SUBMITTED

APPROVED

DIRECTOR

DATE

DATE



POTOMAC YARD METRORAIL STATION

SOUTH PAVILION, BRIDGE SPAN, AND KNUCKLE EGRESS STAIR

FINAL SITE PLAN

DEMOLITION PLAN - SHEET 2 OF 2

M NO. M1316

CONTRACT NO. FQ16146

SCALE: 1" = 20'

DRAWING NO. C-112

SHEET NO. 13 OF 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.

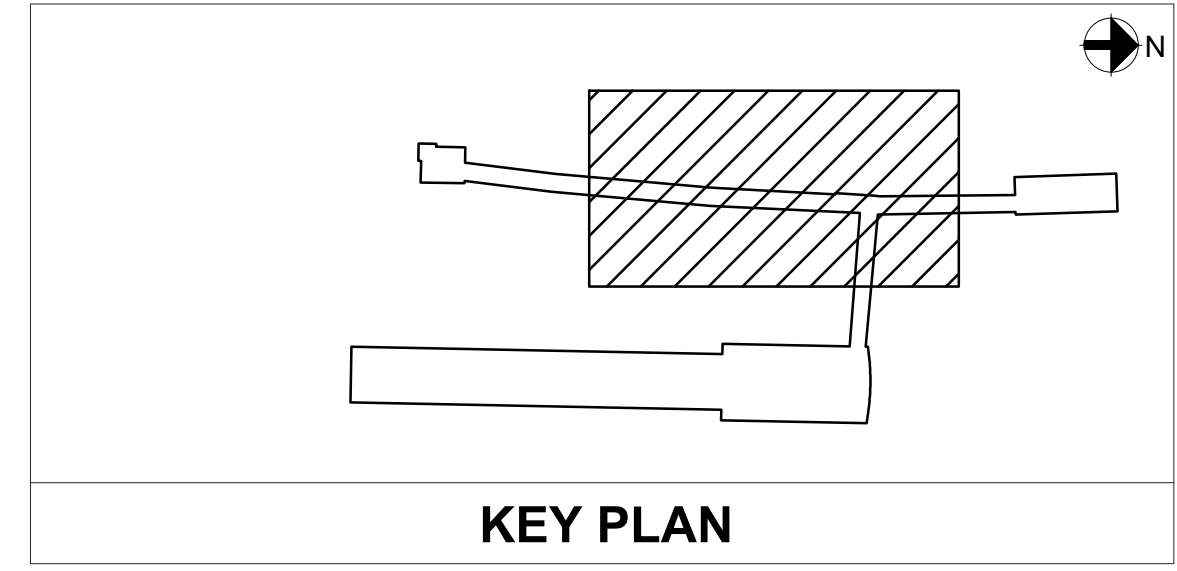
0 20 40 60



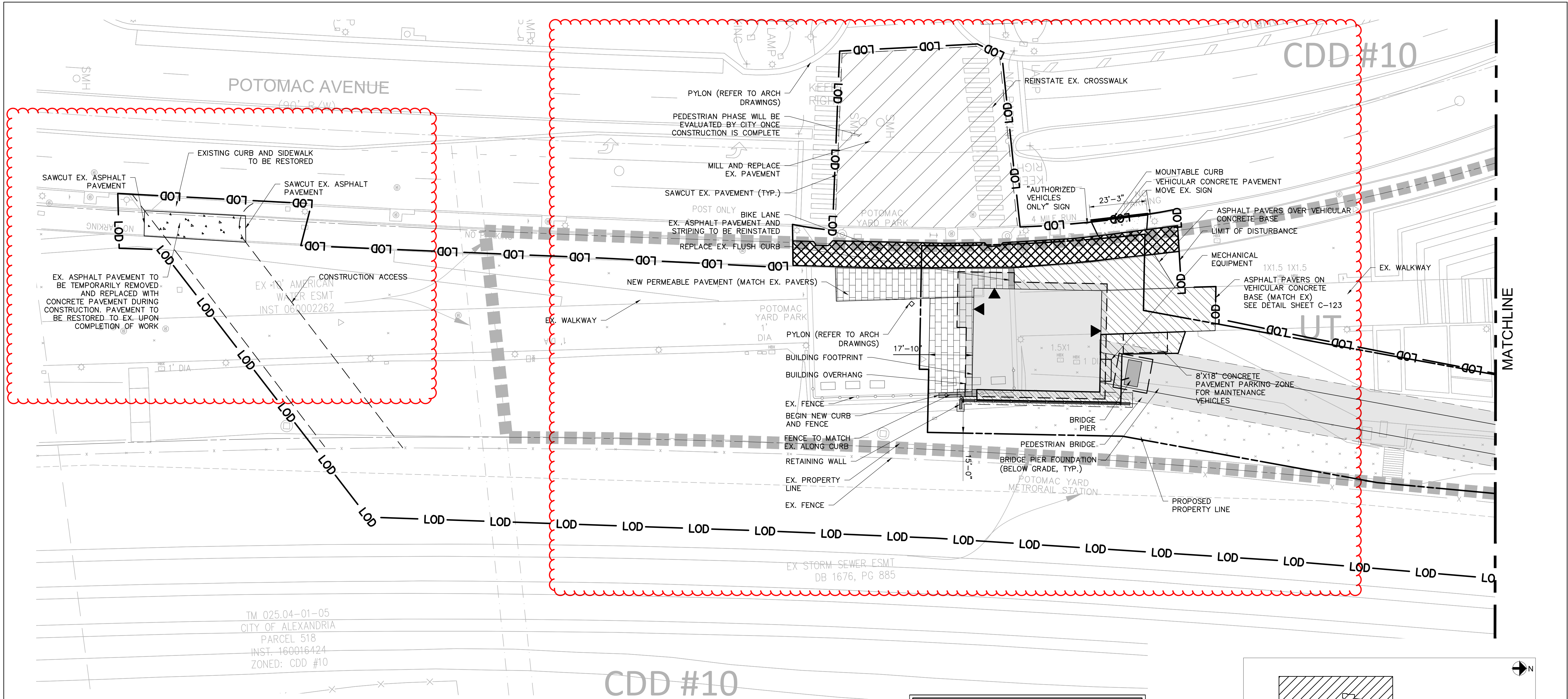
PROFESSIONAL CERTIFICATION:
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF VIRGINIA.

LICENSE NO.

EXPIRATION DATE:



9/17/2019 3:13 PM
FILE PATH: C:\TEMP\JAS_TASK_62



- NOTE:
- 1) REFER TO DRAWING G-003 FOR LEGEND AND ABBREVIATIONS.
 - 2) ALL EXISTING PATHS IN POTOMAC GREENS PARK DAMAGED OR REMOVED DURING CONSTRUCTION SHALL BE REPLACED IN KIND.

- ARCHAEOLOGY NOTES:
1. 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.
 2. THE APPLICANT SHALL CALL ALEXANDRIA ARCHAEOLOGY IMMEDIATELY (703-838-4399) IF ANY BURIED STRUCTURAL REMAINS (WALL FOUNDATIONS, WELLS, PRIVIES, CISTERNS, ETC.) OR CONCENTRATIONS OF ARTIFACTS ARE DISCOVERED DURING DEVELOPMENT. WORK MUST CEASE IN THE AREA OF THE DISCOVERY UNTIL A CITY ARCHAEOLOGIST COMES TO THE SITE AND RECORDS THE FINDS.
 3. 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.

REFERENCE DRAWINGS				REVISIONS			
DESIGNED	MSP	09/09/2020	DATE	NUMBER	DESCRIPTION	DATE	NUM
DRAWN	AW	09/09/2020	DATE				1
CHECKED	JD	09/09/2020	DATE				
APPROVED	TW	09/09/2020	DATE				

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES
OFFICE OF THE CHIEF ENGINEER, INFRASTRUCTURE

SUBMITTED _____ DATE _____

APPROVED _____ DATE _____

DIRECTOR _____



POTOMAC YARD METRORAIL STATION
SOUTH PAVILION, BRIDGE SPAN, AND KNUCKLE EGRESS STAIR
FINAL SITE PLAN
SITE PLAN - SHEET 1 OF 2

M NO.	CONTRACT NO.	SCALE:	DRAWING NO.	SHEET NO.
M1316	FQ16146	1" = 20'	C-121	14 OF 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 _____

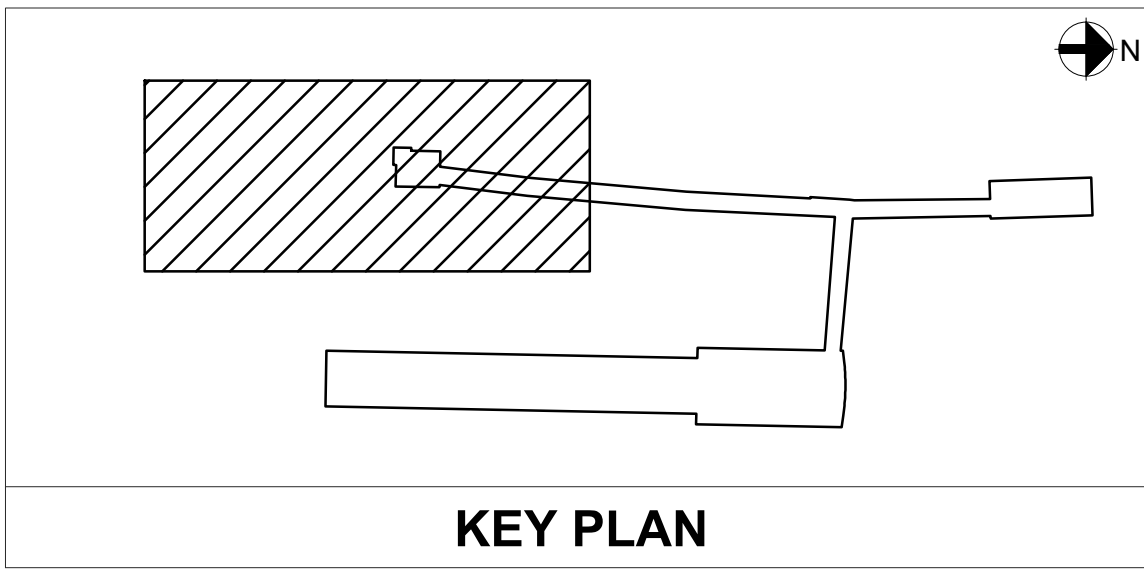
INSTRUMENT NO. _____ DEED BOOK NO. _____ PAGE NO. _____

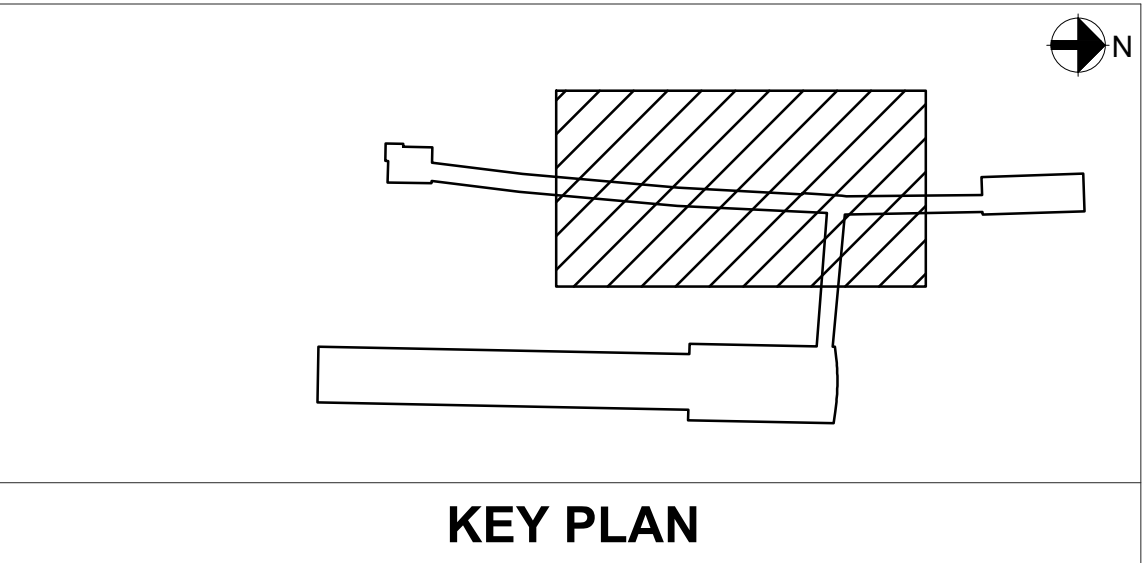
0 20 40 60



PROFESSIONAL CERTIFICATION:
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF VIRGINIA.

LICENSE NO. _____
EXPIRATION DATE: _____





WMATA LDP
COORDINATE
SYSTEM



PROFESSIONAL CERTIFICATION:
I HEREBY CERTIFY THAT THESE DOCUMENTS
WERE PREPARED OR APPROVED BY ME, AND
THAT I AM A FULLY LICENSED PROFESSIONAL
ENGINEER UNDER THE LAWS OF THE STATE
OF VIRGINIA.

LICENSE NO.
EXPIRATION DATE:

NOTE:

- 1) REFER TO DRAWING G-003 FOR LEGEND AND ABBREVIATIONS.
- 2) ALL EXISTING PATHS IN POTOMAC GREENS PARK DAMAGED OR REMOVED DURING CONSTRUCTION SHALL BE REPLACED IN KIND.

ARCHAEOLOGY NOTES:

1. 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.
2. THE APPLICANT SHALL CALL ALEXANDRIA ARCHAEOLOGY IMMEDIATELY (703-838-4399) IF ANY BURIED STRUCTURAL REMAINS (WALL FOUNDATIONS, WELLS, PRIVIES, CISTERNS, ETC.) OR CONCENTRATIONS OF ARTIFACTS ARE DISCOVERED DURING DEVELOPMENT. WORK MUST CEASE IN THE AREA OF THE DISCOVERY UNTIL A CITY ARCHAEOLOGIST COMES TO THE SITE AND RECORDS THE FINDS.
3. 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.

DESIGNED MSP 09/09/2020			REFERENCE DRAWINGS		REVISIONS		
DATE			NUMBER	DESCRIPTION	DATE	NUM	DESCRIPTION
DRAWN AW 09/09/2020					10/07/2020	1	FSP #2
DATE							
CHECKED JD 09/09/2020							
DATE							
APPROVED TW 09/09/2020							
DATE							

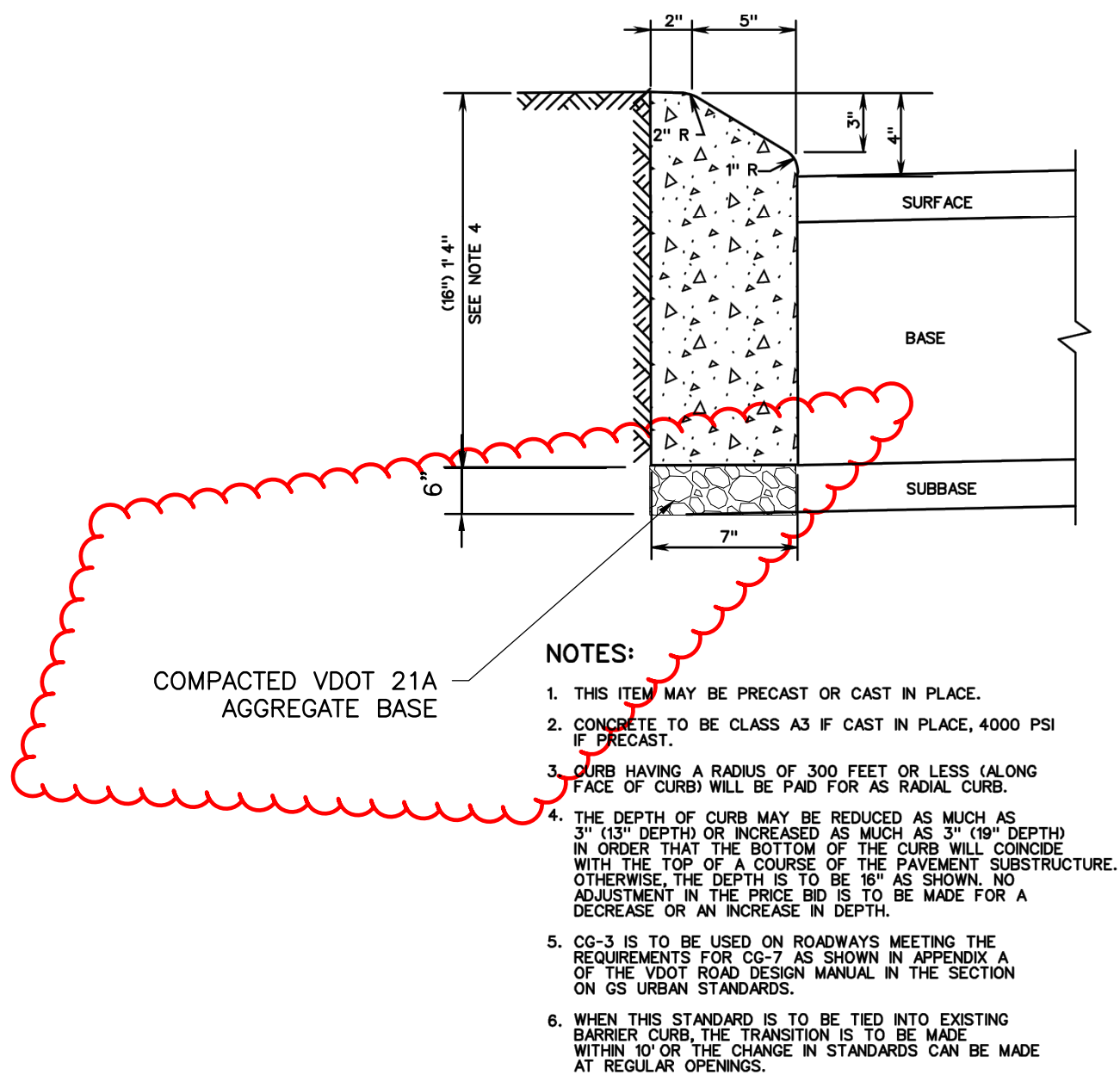
WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES
OFFICE OF THE CHIEF ENGINEER, INFRASTRUCTURE

SUBMITTED	DATE
APPROVED	DATE
DIRECTOR	DATE

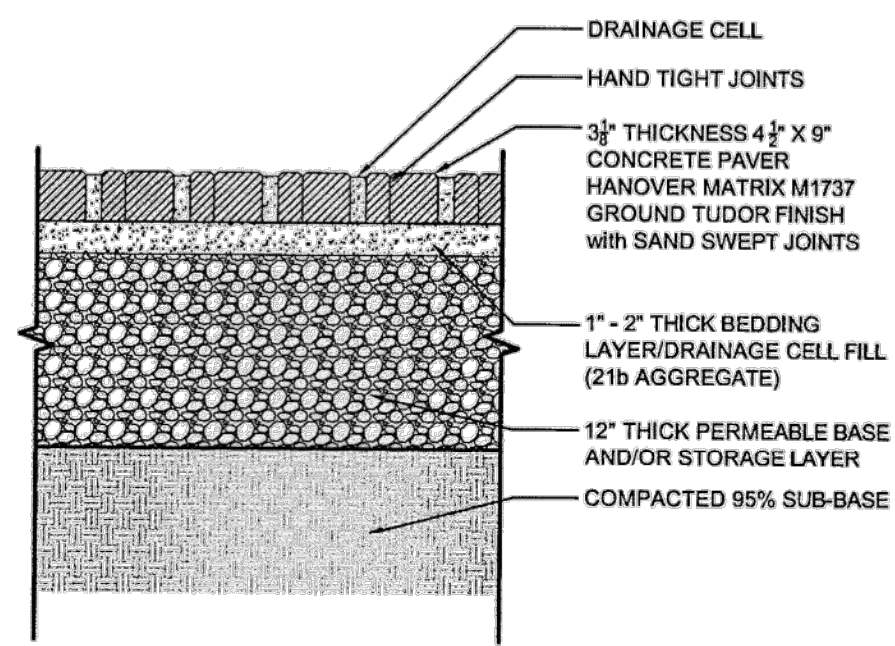


ARUP

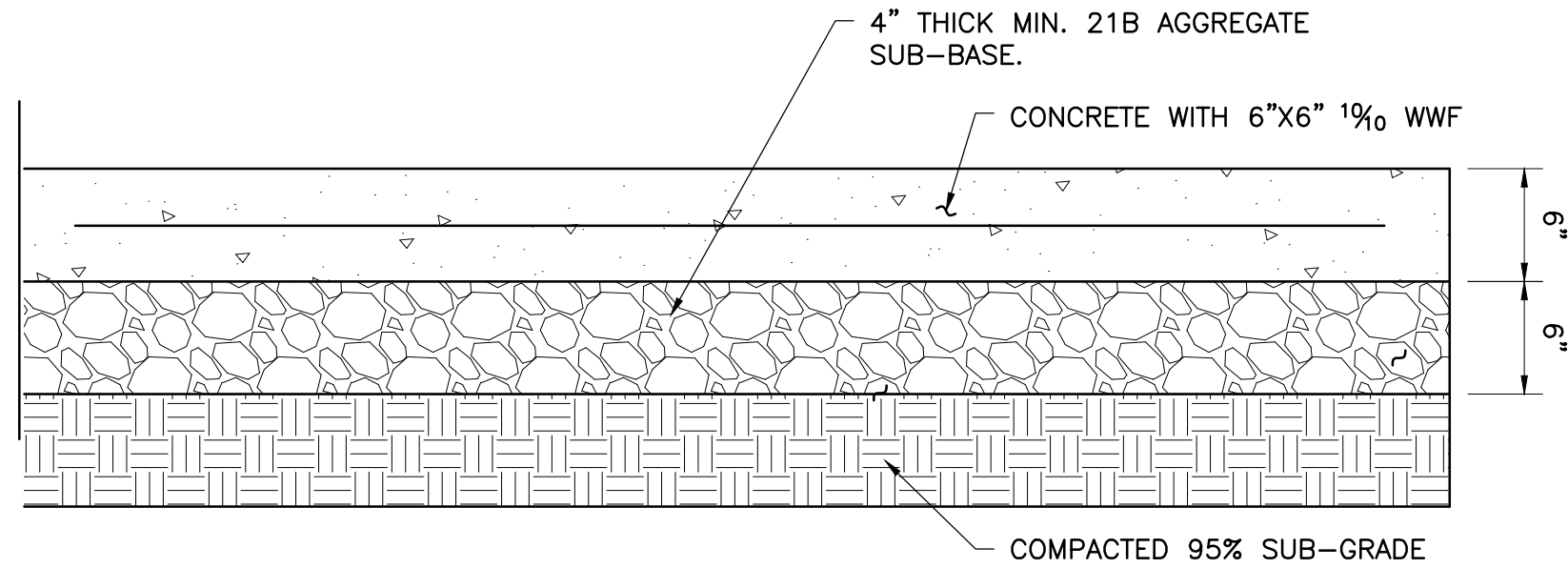
M NO.	CONTRACT NO.	SCALE:	DRAWING NO.	SHEET NO.
M1316	FQ16146	1" = 20'	C-122	15 OF 60



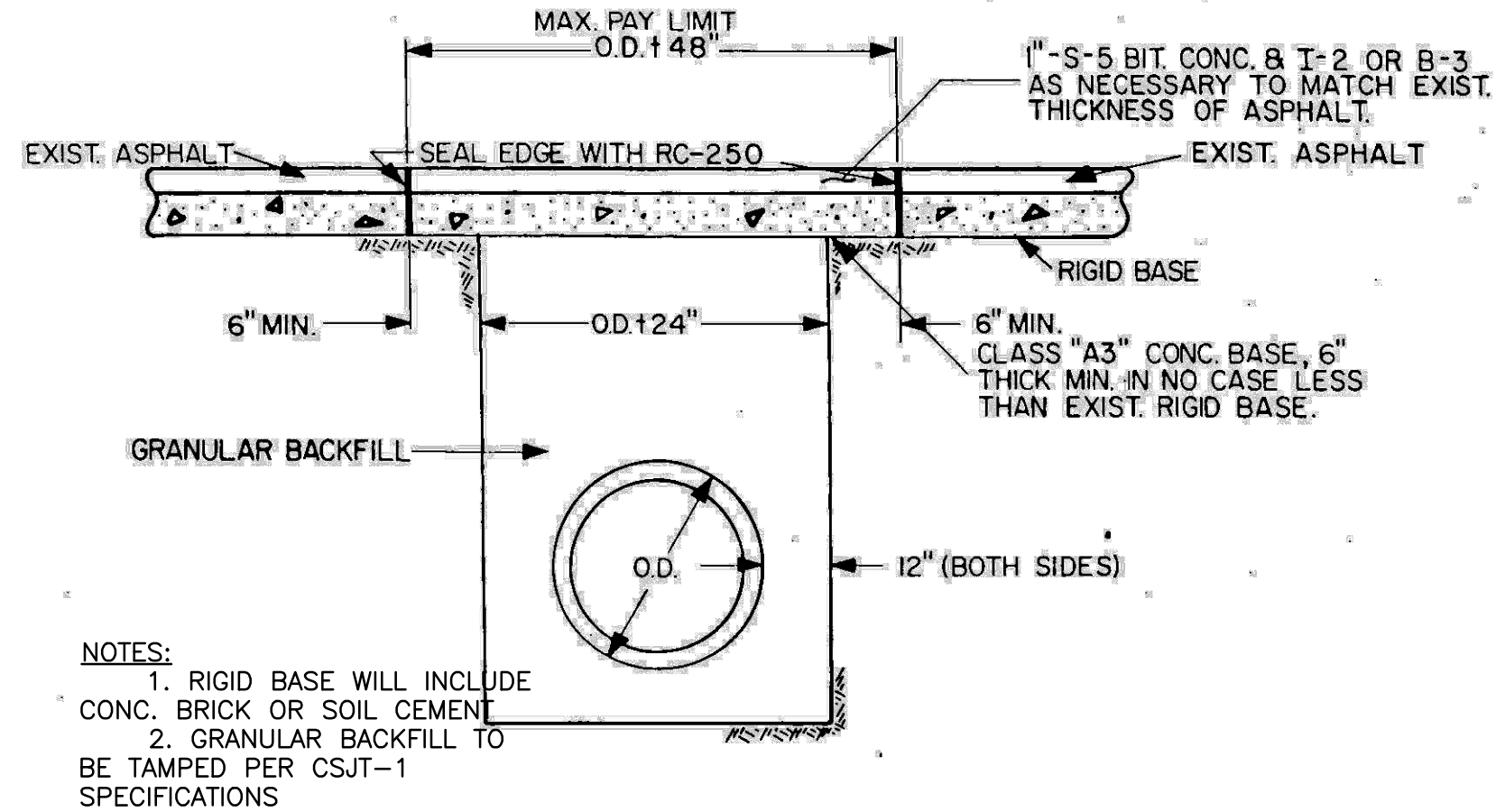
01 MOUNTABLE CURB
- VDOT STANDARD CG-3 SCALE: NTS



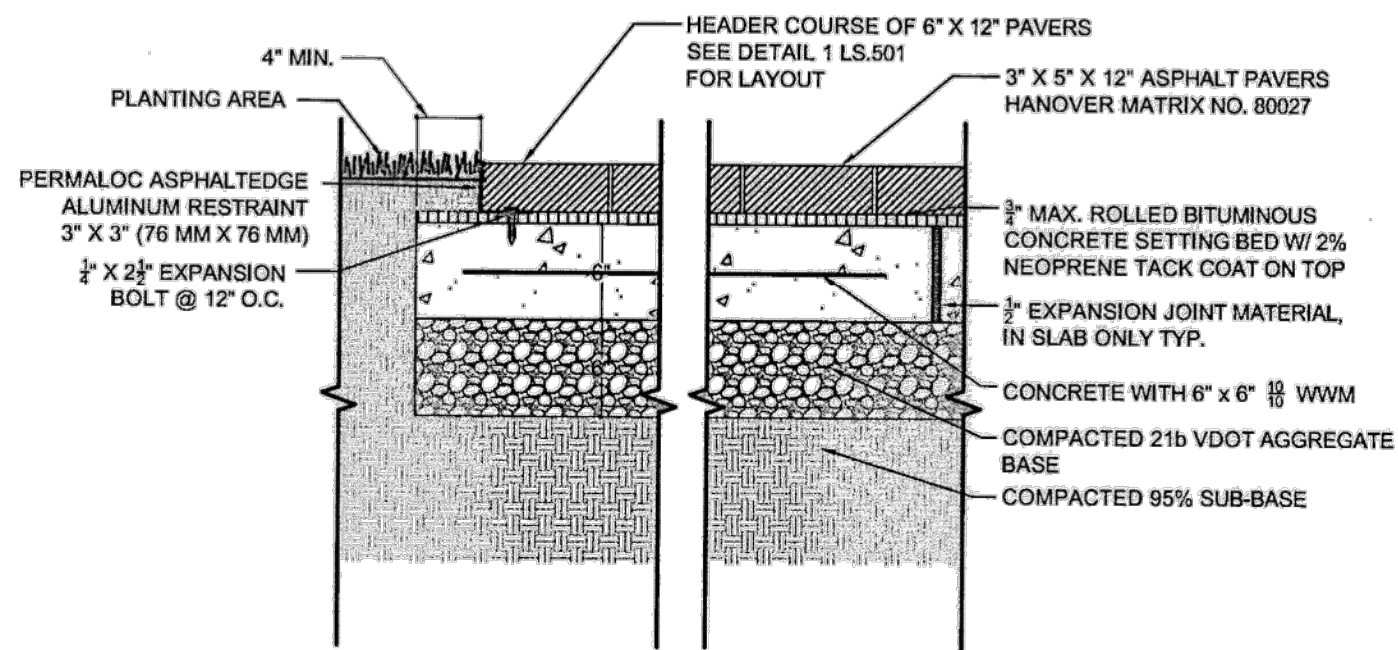
04 PERMEABLE PAVERS
- SCALE: NTS



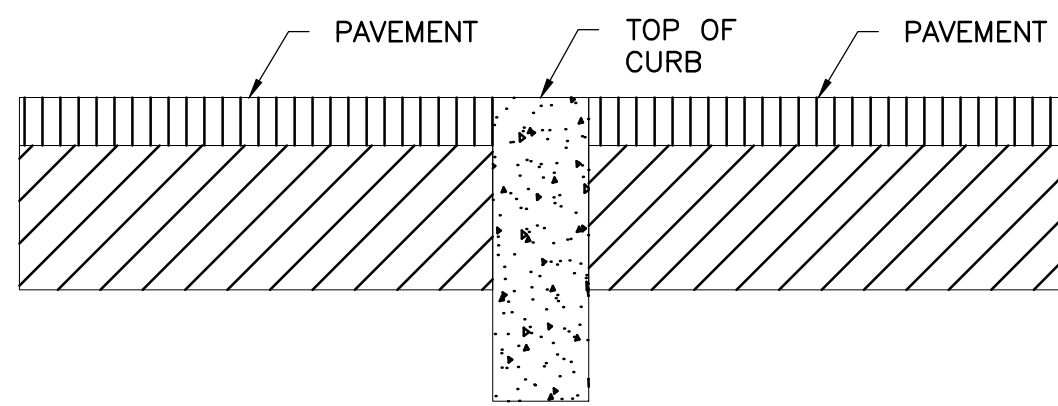
07 VEHICULAR CONCRETE PAVEMENT SECTION
- COA STANDARD SCALE: NTS



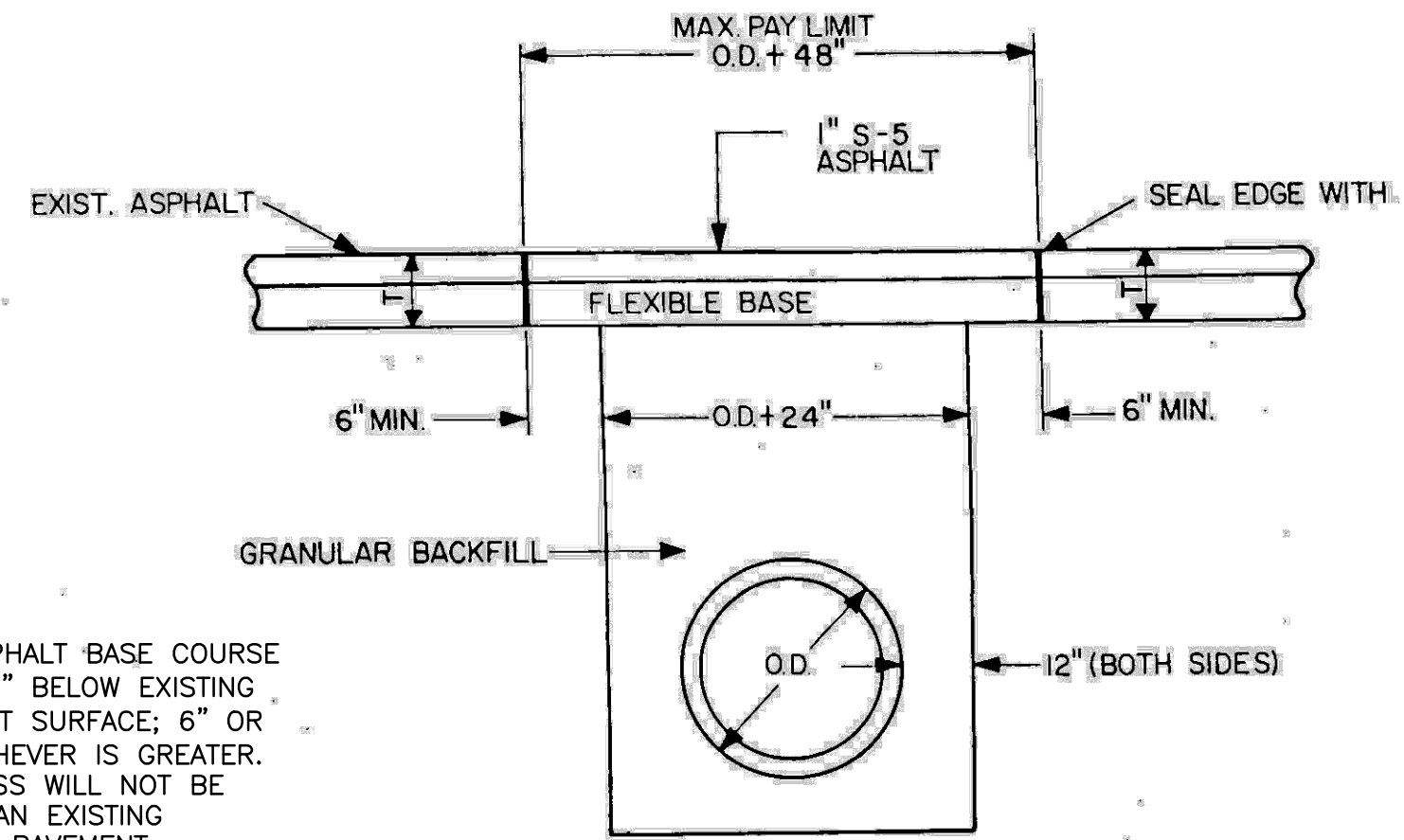
02 REPLACEMENT SURFACE (RIGID BASE)
- COA STANDARD SCALE: NTS



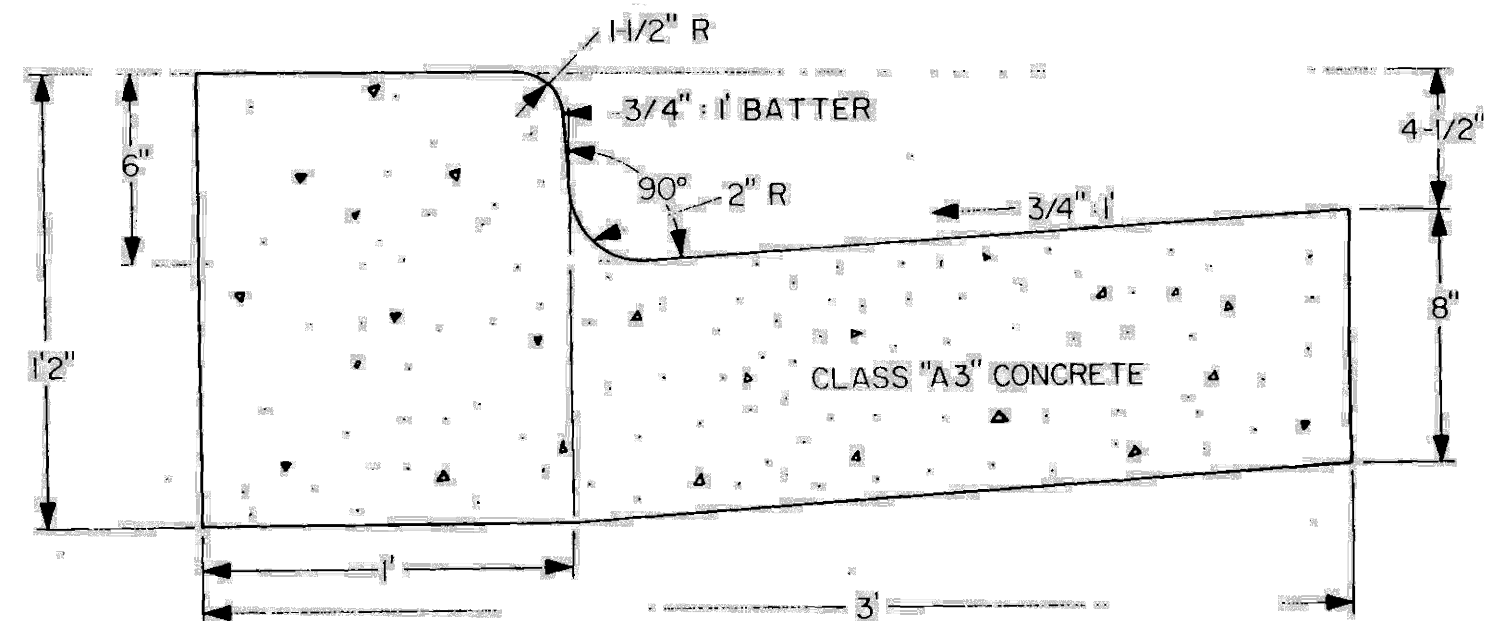
05 ASPHALT PAVERS
- SCALE: NTS



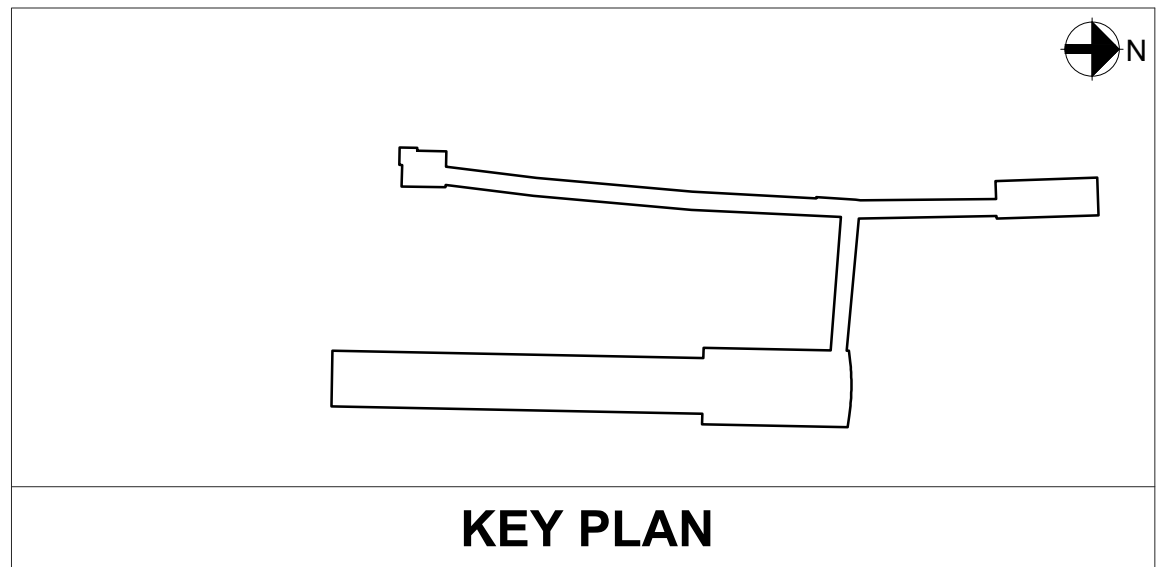
08 FLUSH CURB
- SCALE: NTS



03 REPLACEMENT SURFACE (FLEXIBLE BASE)
- COA STANDARD SCALE: NTS



06 CURB AND GUTTER
- SCALE: NTS



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

DIRECTOR _____ DATE _____

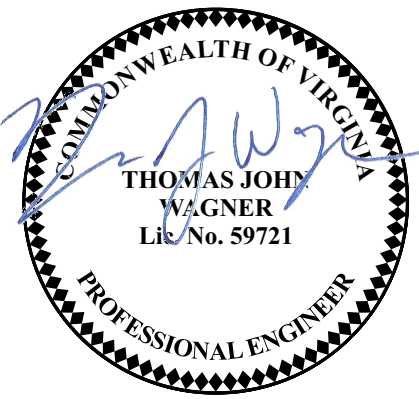
DEPARTMENT OF TRANSPORTATION & ENVIRONMENTAL SERVICES
SITE PLAN NO. _____

DIRECTOR _____ DATE _____

CHAIRMAN, PLANNING COMMISSION _____ DATE _____

DATE RECORDED _____

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



PROFESSIONAL CERTIFICATION:
I HEREBY CERTIFY THAT THESE DOCUMENTS
WERE PREPARED OR APPROVED BY ME, AND
THAT I AM A FULLY LICENSED PROFESSIONAL
ENGINEER UNDER THE LAWS OF THE STATE
OF VIRGINIA.

LICENSE NO.
EXPIRATION DATE:

9/17/2019 4:50 PM FILE PATH: C:\TEMP\JAS_TASK_62

			REFERENCE DRAWINGS		REVISIONS	
			NUMBER	DESCRIPTION	DATE	NUM DESCRIPTION
DESIGNED	MSP	09/09/2020			10/07/2020	1 FSP #2
DRAWN	AW	09/09/2020				
CHECKED	JD	09/09/2020				
APPROVED	TW	09/09/2020				

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES
OFFICE OF THE CHIEF ENGINEER, INFRASTRUCTURE

SUBMITTED _____ DATE _____
APPROVED _____ DATE _____
DIRECTOR _____



ARUP

POTOMAC YARD METRORAIL STATION
SOUTH PAVILION, BRIDGE SPAN, AND KNUCKLE EGRESS STAIR
FINAL SITE PLAN

SITE DETAILS - PAVEMENT AND SIDEWALK

M NO.	CONTRACT NO.	SCALE:	DRAWING NO.	SHEET NO.
M1316	FQ16146	AS SHOWN	C-123	16 OF 60

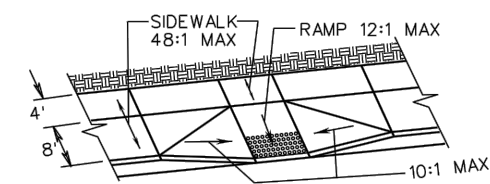


SCALE: NTS

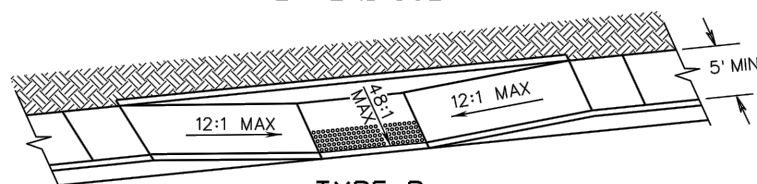
GENERAL NOTES:

1. THE DETECTABLE WARNING SHALL BE PROVIDED BY TRUNCATED DOTS.
2. ALL DETECTABLE WARNING SURFACE PRODUCTS SHALL MEET THE REQUIREMENTS OF SECTION 904 OF THE 2009 STANDARD SPECIFICATIONS FOR CONSTRUCTION OF THE DETECTABLE WARNING SURFACE. DETECTABLE WARNING SURFACE PRODUCTS USED SHALL BE FROM THE MATERIALS LISTED IN THE PRODUCT LIST.
3. SLOPING SIDES OF CURB RAMP MAY BE POURED MONOLITHICALLY WITH RAMP FLOOR or BY USING PERMISSIBLE CONSTRUCTION JUMP WITH REQUIRED BARS. REQUIRED BARS ARE TO BE PLACED AT 18" ON CENTER, 4" BELOW BOTH SIDES OF THE RAMP FLOOR, MIN. DEPTH OF RAMP FLOOR, MINIMUM COVER 3/4".
4. ROADWAY CURBS / CURBS AND GUTTER SLOPE TRANSITIONS ADJACENT TO CURBS ARE REQUIRED IN PAYMENT FOR CURB / CURBS AND GUTTER.
5. CURB RAMPs ARE REQUIRED FOR SIDEWALKS AND SHARED USE PATHS THE WIDTH OF WHICH IS LESS THAN 6'0". CURB RAMPs ARE NOT REQUIRED FOR SIDEWALKS IN CONNECTION WITH A SHARED USE PATH. THE MINIMUM WIDTH SHALL BE THE WIDTH OF THE SHARED USE PATH.
6. DETECTABLE WARNING SHALL EXTEND THE FULL WIDTH OF THE CURB RAMP LANDING.
7. CURB RAMPs WILL BE INSTALLED AND LOCATED WITHIN PEDESTRIAN CROSSWALKS AS SHOWN ON PLANS or AS DIRECTED BY THE ENGINEER. CURBS SHOULD BE INSTALLED AT LOCATED BEHIND THE CROSSWALK. CURBS SHOULD BE PLACED ON NETS, ETC.
8. DETECTABLE WARNING SHALL BE PLACED ON RADIAL OR TANGENTIAL SECTIONS PROVIDED THAT THE CURB OPENING IS PLACED WITHIN THE LIMITS OF THE CROSSWALK AND THAT THE SLOPE AT THE LOCATION OF THE CURB OPENING IS PERPENDICULAR TO THE CURB.
9. DETECTABLE WARNING SURFACE PANELS SHALL BE INSTALLED FLUSH WITH THE BACK OF CURB.
10. WHERE CURB RAMPs INTERSECT A RADIAL SECTION OF CURB AT ENTRANCES OR STREET CONNECTIONS, THE DETECTABLE WARNING SURFACE SHALL HAVE A 4" DEPTH RADIAL OR TANGENTIAL SECTION TO THE TOP OF THE CURB. THE MANUFACTURER TO MATCH THE BACK OF CURB. SEE CG-10-NS PAGE 204 OR 206 FOR RADIAL OR TANGENTIAL SECTION.

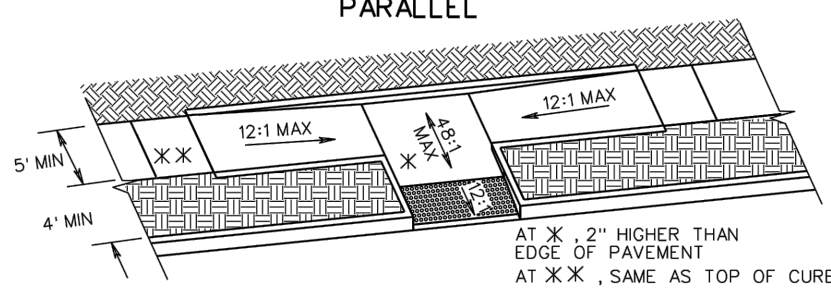
NOTE: COMPONENTS OF CURB RAMPS CONSIST OF THE FOLLOWING:
HYDRAULIC CEMENT SIDEWALK (DEPTH IN INCHES, AREA IN SQUARE YARDS)
CURB WHEN REQUIRED (CG-2 OR CG-3 IN LINEAR FEET)
DETECTABLE WARNING SURFACE (AREA IN SQUARE YARDS)
EACH OF THE ABOVE ITEMS IS A SEPARATE PAY ITEM AND SHOULD
BE SUMMARIZED FOR EACH CURB CUT RAMP.



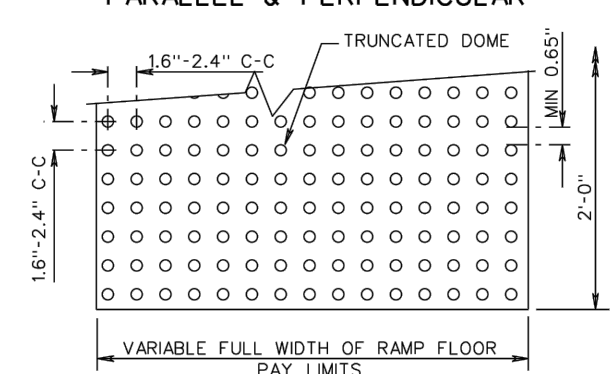
TYPE A
PERPENDICULAR



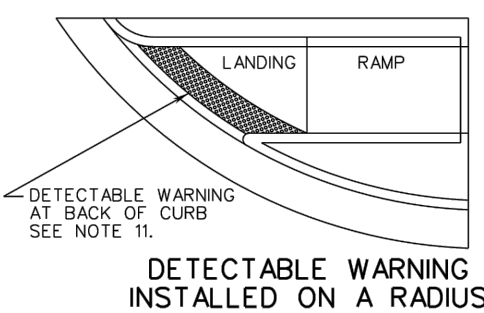
TYPE B
PARALLEL



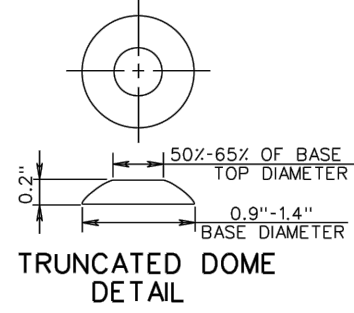
TYPE C
PARALLEL & PERPENDICULAR



DETECTABLE WARNING
DETAIL



DETECTABLE WARNING
INSTALLED ON A RADIUS



TRUNCATED
DETAIL

VDOT STANDARD CG-12

SCALE: NTS

REVISIONS

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES
OFFICE OF THE CHIEF ENGINEER, INFRASTRUCTURE

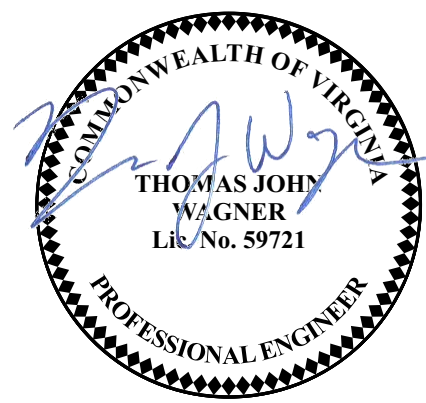


POTOMAC YARD
CONSTRUCTORS
A JOINT VENTURE

ARUP

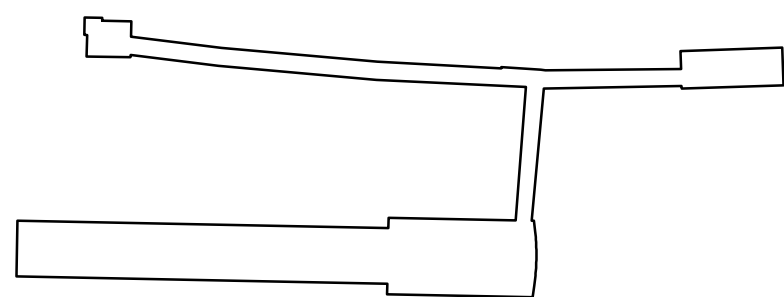
WMATA LDP
COORDINATE
SYSTEM

WMATA LDP
COORDINATE
SYSTEM



PROFESSIONAL CERTIFICATION:
I HEREBY CERTIFY THAT THESE DOCUMENTS
WERE PREPARED OR APPROVED BY ME, AND
THAT I AM A FULLY LICENSED PROFESSIONAL
ENGINEER UNDER THE LAWS OF THE STATE
OF VIRGINIA.

LICENSE NO. _____
EXPIRATION DATE: _____

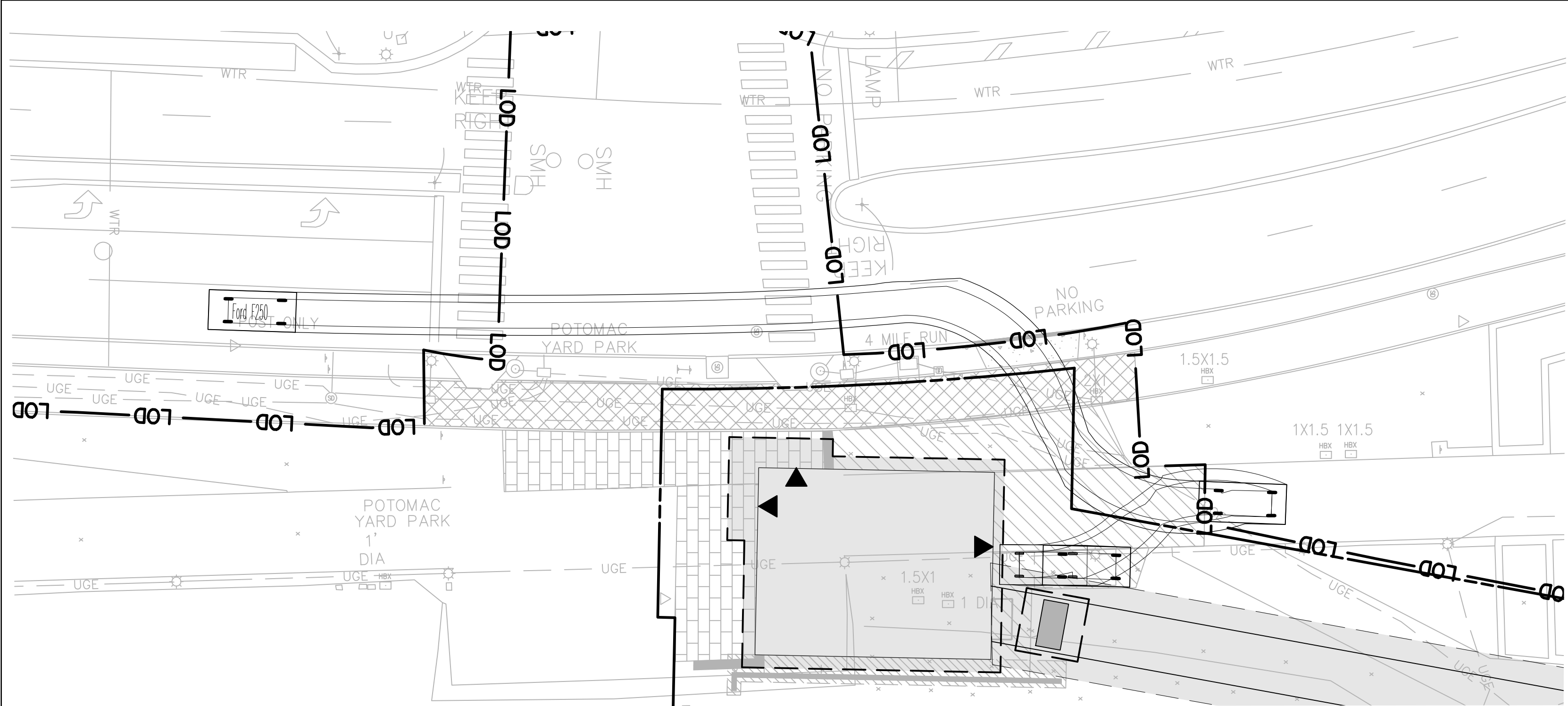


KEY PLAN

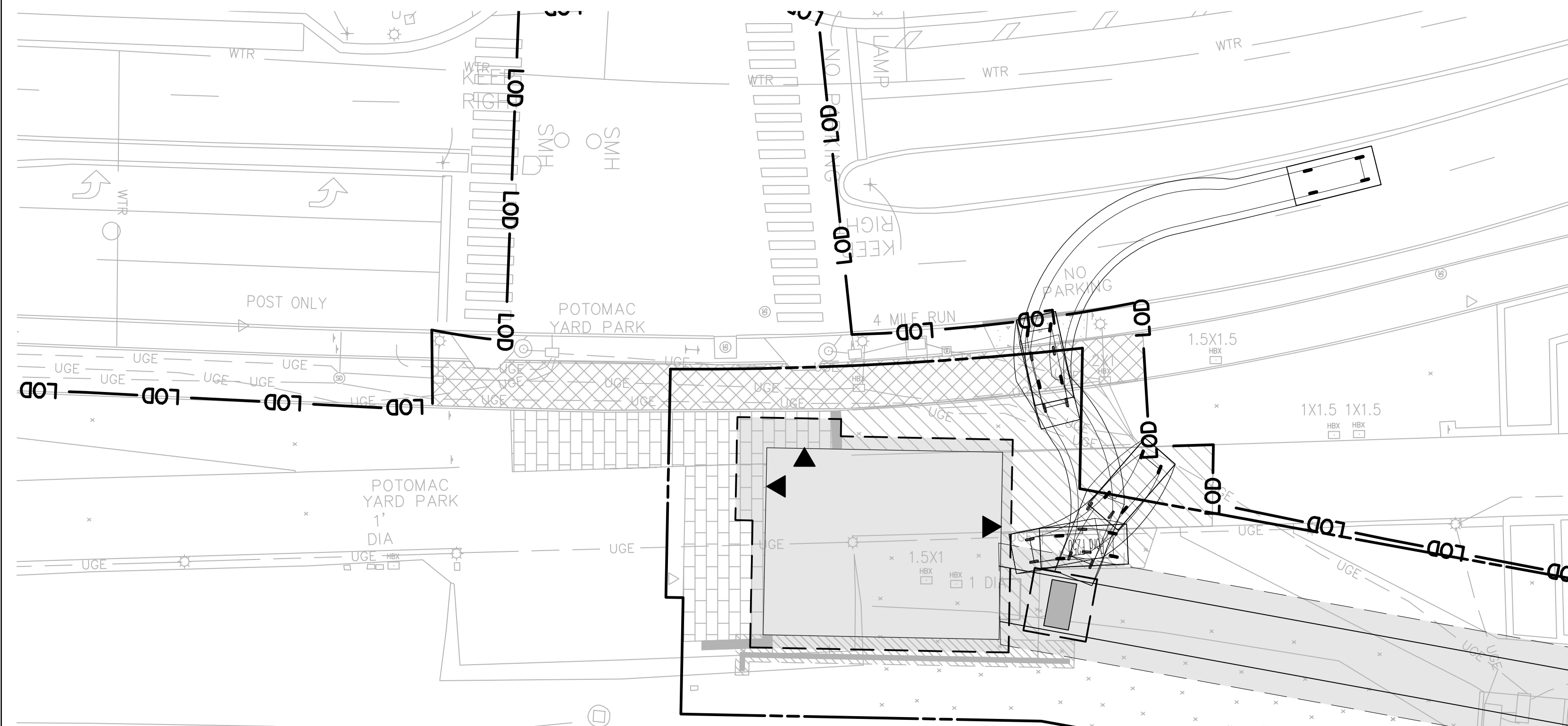
POTOMAC YARD METRORAIL STATION
SOUTH PAVILION, BRIDGE SPAN, AND KNUCKLE EGRESS STAIR

SITE DETAILS - SITE FURNISHINGS

9/17/2019 4:49 PM FILE PATH: C:\TEMP\JAS_TASK_62



VEHICLE MOVEMENT – FROM POTOMAC AVE. INTO PARKING ZONE AT SOUTH PAVILION



VEHICLE MOVEMENT – FROM PARKING ZONE ONTO POTOMAC AVE.

NOTES:
1) REFER TO DRAWING G-003 FOR LEGEND AND ABBREVIATIONS.

- ARCHAEOLOGY NOTES:
- 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.
 - THE APPLICANT SHALL CALL ALEXANDRIA ARCHAEOLOGY IMMEDIATELY (703-838-4399) IF ANY BURIED STRUCTURAL REMAINS (WALL FOUNDATIONS, WELLS, PRIVIES, CISTERNS, ETC.) OR CONCENTRATIONS OF ARTIFACTS ARE DISCOVERED DURING DEVELOPMENT. WORK MUST CEASE IN THE AREA OF THE DISCOVERY UNTIL A CITY ARCHAEOLOGIST COMES TO THE SITE AND RECORDS THE FINDS.
 - THE 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.

APPROVED

SPECIAL USE PERMIT NO. _____

DEPARTMENT OF PLANNING & ZONING

DIRECTOR _____ DATE _____

DEPARTMENT OF TRANSPORTATION & ENVIRONMENTAL SERVICES

SITE PLAN NO. _____

DIRECTOR _____ DATE _____

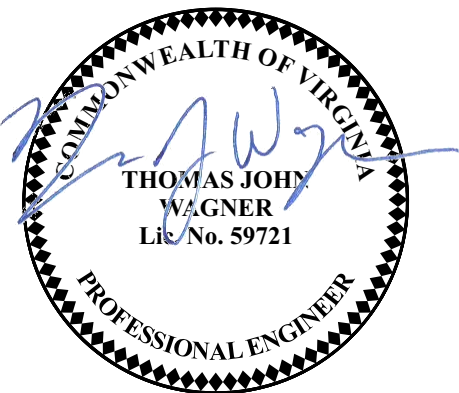
CHAIRMAN, PLANNING COMMISSION _____ DATE _____

DATE RECORDED _____

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

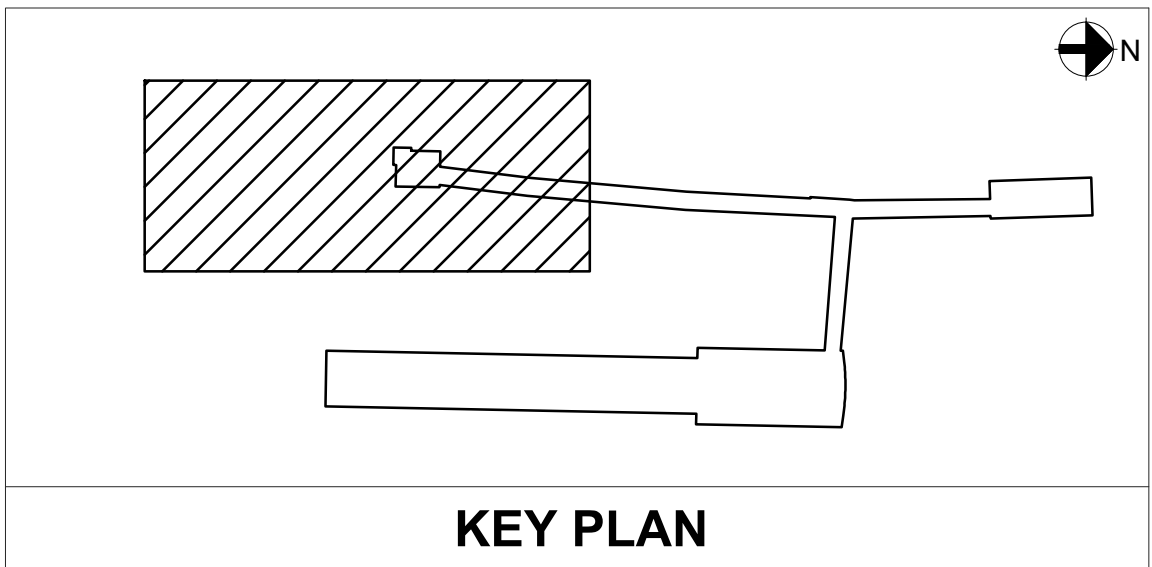


WMATA LDP
COORDINATE
SYSTEM



PROFESSIONAL CERTIFICATION:
I HEREBY CERTIFY THAT THESE DOCUMENTS
WERE PREPARED OR APPROVED BY ME, AND
THAT I AM A FULLY LICENSED PROFESSIONAL
ENGINEER UNDER THE LAWS OF THE STATE
OF VIRGINIA.

LICENSE NO.
EXPIRATION DATE:



KEY PLAN

9/17/2019 3:43 PM
FILE PATH: C:\TEMP\JAS_TASK_62

REFERENCE DRAWINGS				REVISIONS		
DESIGNED	MSP	09/09/2020	DATE	NUMBER	DESCRIPTION	DATE
DRAWN	AW	09/09/2020	DATE	10/07/2020	1	FSP #2
CHECKED	JD	09/09/2020	DATE			
APPROVED	TW	09/09/2020	DATE			

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES
OFFICE OF THE CHIEF ENGINEER, INFRASTRUCTURE

SUBMITTED _____ DATE _____
APPROVED _____ DATE _____
DIRECTOR _____



ARUP

POTOMAC YARD METRO RAIL STATION
SOUTH PAVILION, BRIDGE SPAN, AND KNUCKLE EGRESS STAIR
FINAL SITE PLAN
STORMWATER PLAN - SHEET 1 OF 2

M NO.	CONTRACT NO.	SCALE:	DRAWING NO.	SHEET NO.
M1316	FQ16146	1" = 20'	C-125	17A OF 60

9/17/2019 3:43 PM
FILE PATH: C:\TEMP\UAS_TASK_62

NOTES:
1) REFER TO DRAWING G-003 FOR LEGEND AND ABBREVIATIONS.

REFERENCE DRAWINGS				REVISIONS			
DESIGNED	MSP	09/09/2020	DATE	NUMBER	DESCRIPTION	DATE	NUM
DRAWN	AW	09/09/2020	DATE			10/07/2020	1
CHECKED	JD	09/09/2020	DATE				
APPROVED	TW	09/09/2020	DATE				

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES

OFFICE OF THE CHIEF ENGINEER, INFRASTRUCTURE

SUBMITTED

DATE

APPROVED

DIRECTOR

DATE



POTOMAC YARD METRO RAIL STATION

SOUTH PAVILION, BRIDGE SPAN, AND KNUCKLE EGRESS STAIR

FINAL SITE PLAN

PEDESTRIAN DETOUR PLAN

M NO.

M1316

CONTRACT NO.

FQ16146

SCALE:

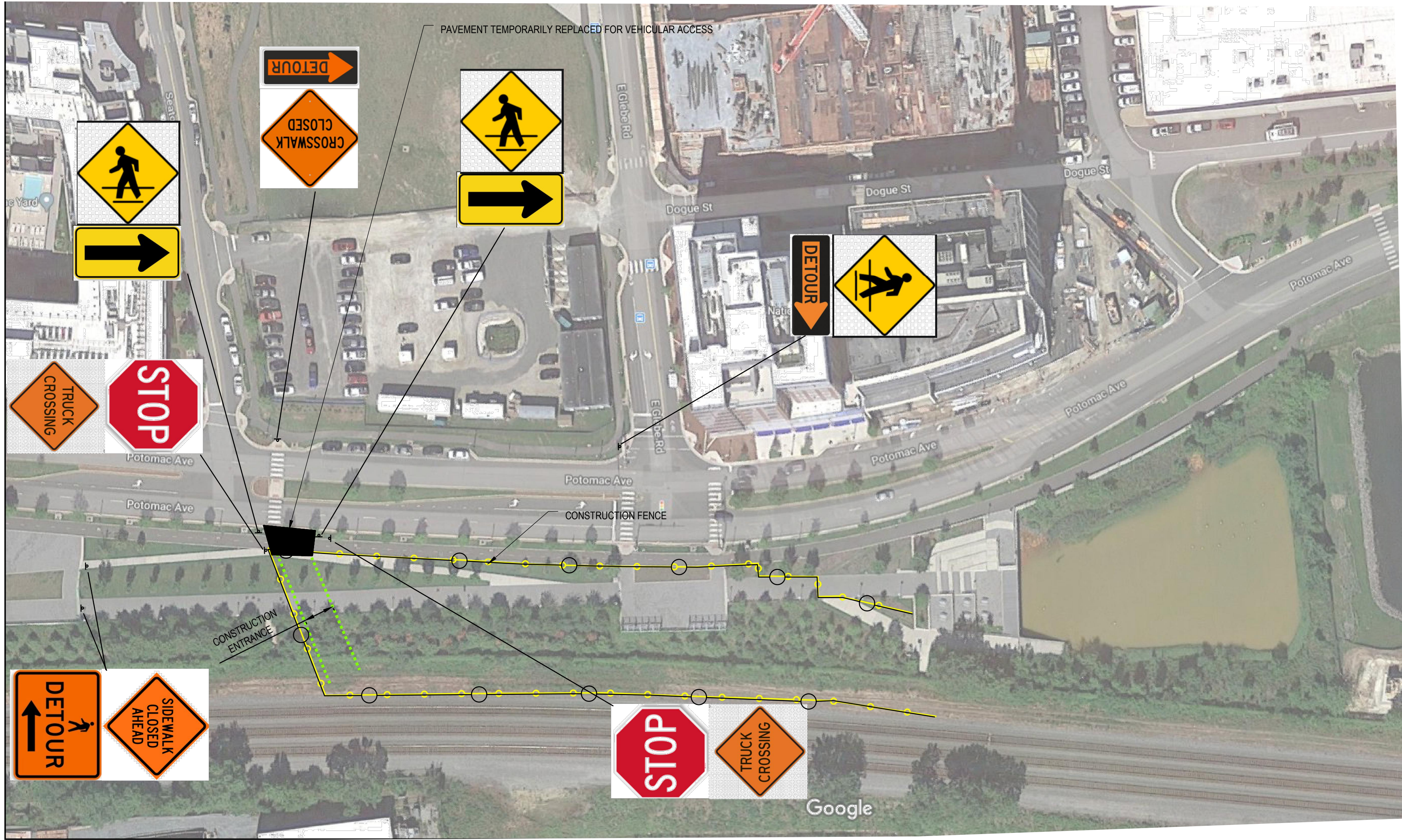
1" = 20'

DRAWING NO.

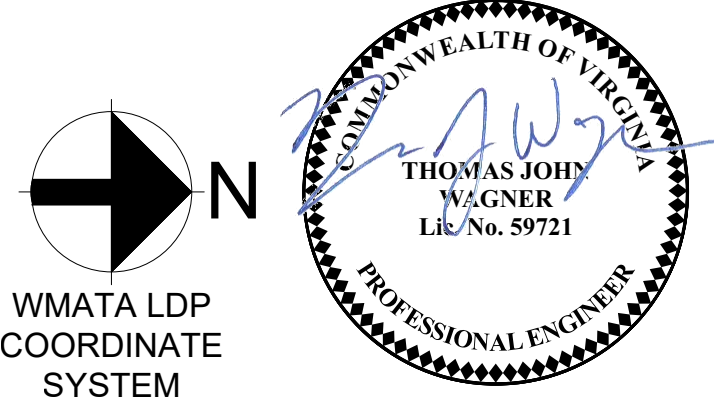
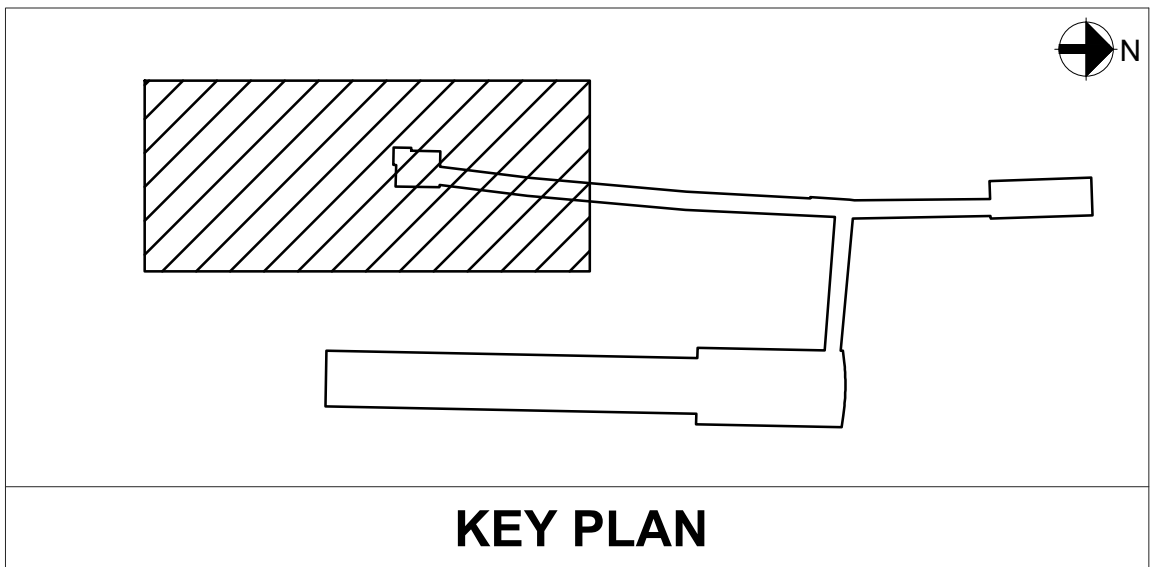
C-192

SHEET NO.

20 OF 60



- ARCHAEOLOGY NOTES:
- 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.
 - THE APPLICANT SHALL CALL ALEXANDRIA ARCHAEOLOGY IMMEDIATELY (703-838-4399) IF ANY BURIED STRUCTURAL REMAINS (WALL FOUNDATIONS, WELLS, PRIVIES, CISTERNS, ETC.) OR CONCENTRATIONS OF ARTIFACTS ARE DISCOVERED DURING DEVELOPMENT. WORK MUST CEASE IN THE AREA OF THE DISCOVERY UNTIL A CITY ARCHAEOLOGIST COMES TO THE SITE AND RECORDS THE FINDS.
 - THE 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.



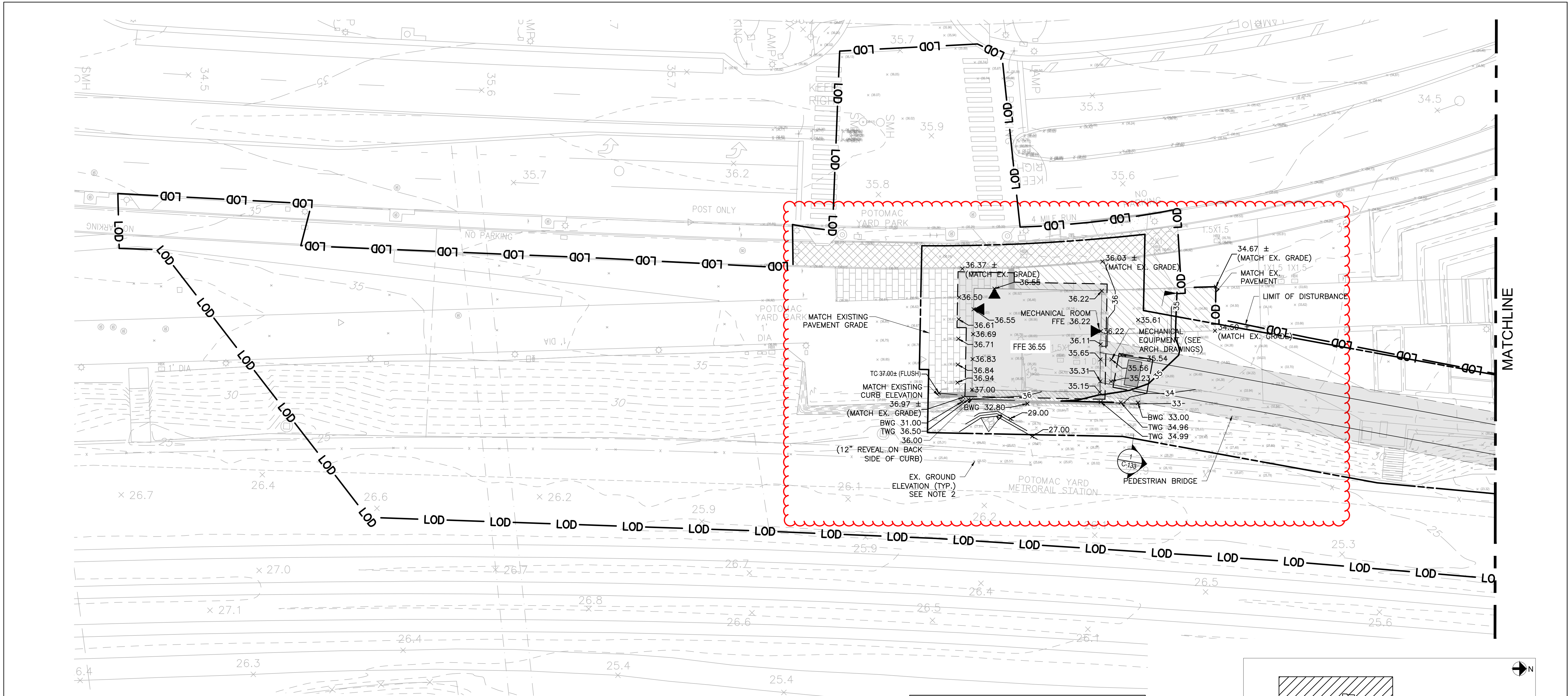
PROFESSIONAL CERTIFICATION:
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF VIRGINIA.

LICENSE NO.

EXPIRATION DATE:



9/17/2019 3:33 PM
FILE PATH: C:\TEMP\UAS_TASK_62



NOTE:

- 1) REFER TO DRAWING G-003 FOR LEGEND AND ABBREVIATIONS.
- 2) ADDITIONAL TOPOGRAPHIC ELEVATIONS PROVIDED BY PYC ON 8/20/2020 ARE INDICATION AS FOLLOWS:
X (25.60)

ARCHAEOLOGY NOTES:

1. 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.
2. THE APPLICANT SHALL CALL ALEXANDRIA ARCHAEOLOGY IMMEDIATELY (703-838-4399) IF ANY BURIED STRUCTURAL REMAINS (WALL FOUNDATIONS, WELLS, PRIVIES, CISTERNS, ETC.) OR CONCENTRATIONS OF ARTIFACTS ARE DISCOVERED DURING DEVELOPMENT. WORK MUST CEASE IN THE AREA OF THE DISCOVERY UNTIL A CITY ARCHAEOLOGIST COMES TO THE SITE AND RECORDS THE FINDS.
3. 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.

REFERENCE DRAWINGS				REVISIONS			
DESIGNED	MSP	09/09/2020	DATE	NUMBER	DESCRIPTION	DATE	NUM
DRAWN	AW	09/09/2020	DATE			10/07/2020	1
CHECKED	JD	09/09/2020	DATE				
APPROVED	TW	09/09/2020	DATE				

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES
OFFICE OF THE CHIEF ENGINEER, INFRASTRUCTURE

SUBMITTED	DATE
APPROVED	DATE
DIRECTOR	DATE



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. _____

0 20 40 60

KEY PLAN

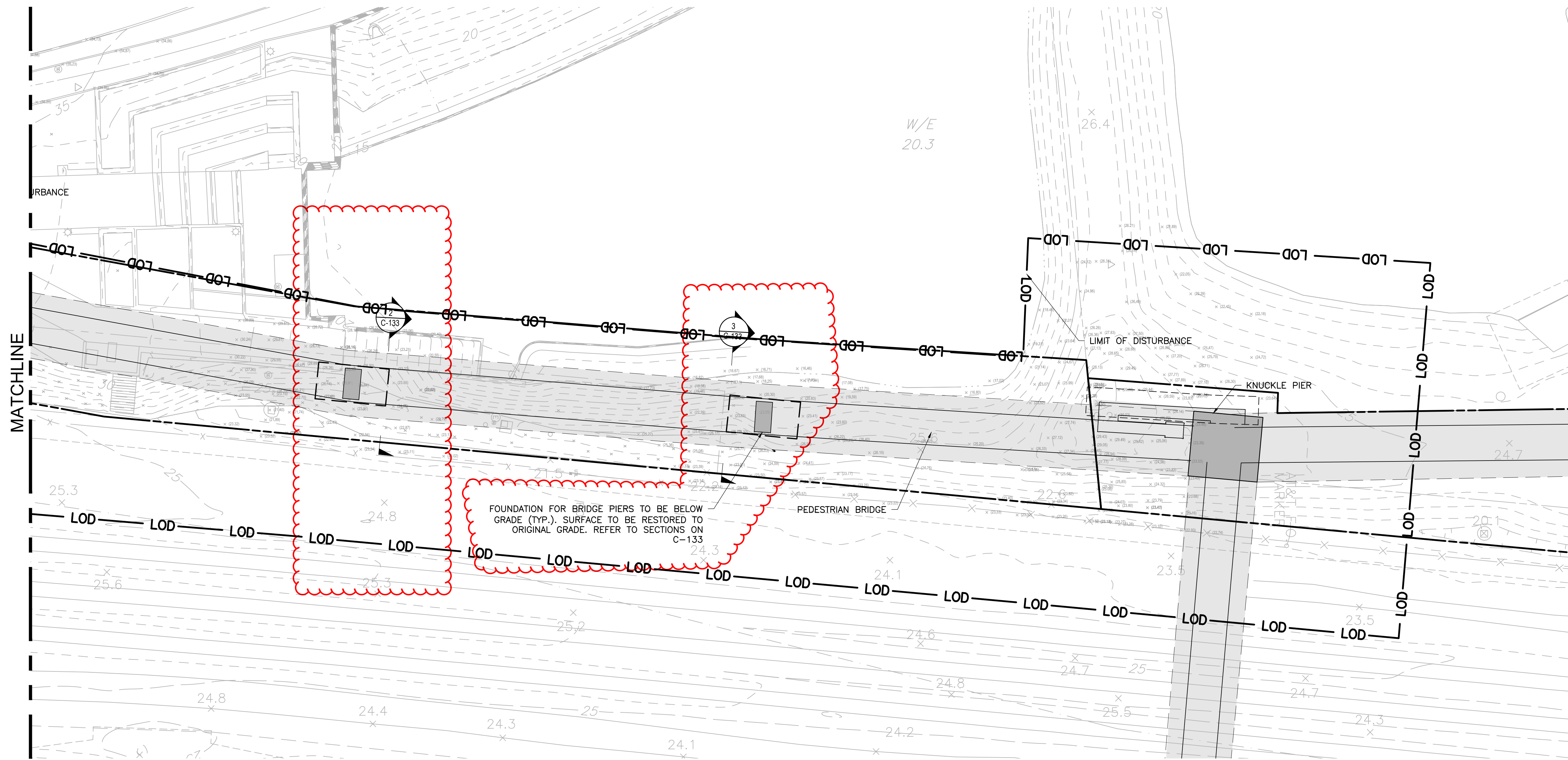
PROFESSIONAL CERTIFICATION:
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF VIRGINIA.

POTOMAC YARD METRORAIL STATION
SOUTH PAVILION, BRIDGE SPAN, AND KNUCKLE EGRESS STAIR
FINAL SITE PLAN
GRADING PLAN - SHEET 1 OF 2

WMATA LDP COORDINATE SYSTEM

LICENSE NO. _____
EXPIRATION DATE: _____

M NO.	CONTRACT NO.	SCALE:	DRAWING NO.	SHEET NO.
M1316	FQ16146	1" = 20'	C-131	18 OF 60



NOTE:

- 1) REFER TO DRAWING G-003 FOR LEGEND AND ABBREVIATIONS.
- 2) ADDITIONAL TOPOGRAPHIC ELEVATIONS PROVIDED BY PYC ON 8/20/2020 ARE INDICATION AS FOLLOWS:
X (25.60)

ARCHAEOLOGY NOTES:

1. 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.
2. THE APPLICANT SHALL CALL ALEXANDRIA ARCHAEOLOGY IMMEDIATELY (703-838-4399) IF ANY BURIED STRUCTURAL REMAINS (WALL FOUNDATIONS, WELLS, PRIVIES, CISTERNS, ETC.) OR CONCENTRATIONS OF ARTIFACTS ARE DISCOVERED DURING DEVELOPMENT. WORK MUST CEASE IN THE AREA OF THE DISCOVERY UNTIL A CITY ARCHAEOLOGIST COMES TO THE SITE AND RECORDS THE FINDS.
3. 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.

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

DIRECTOR _____ DATE _____

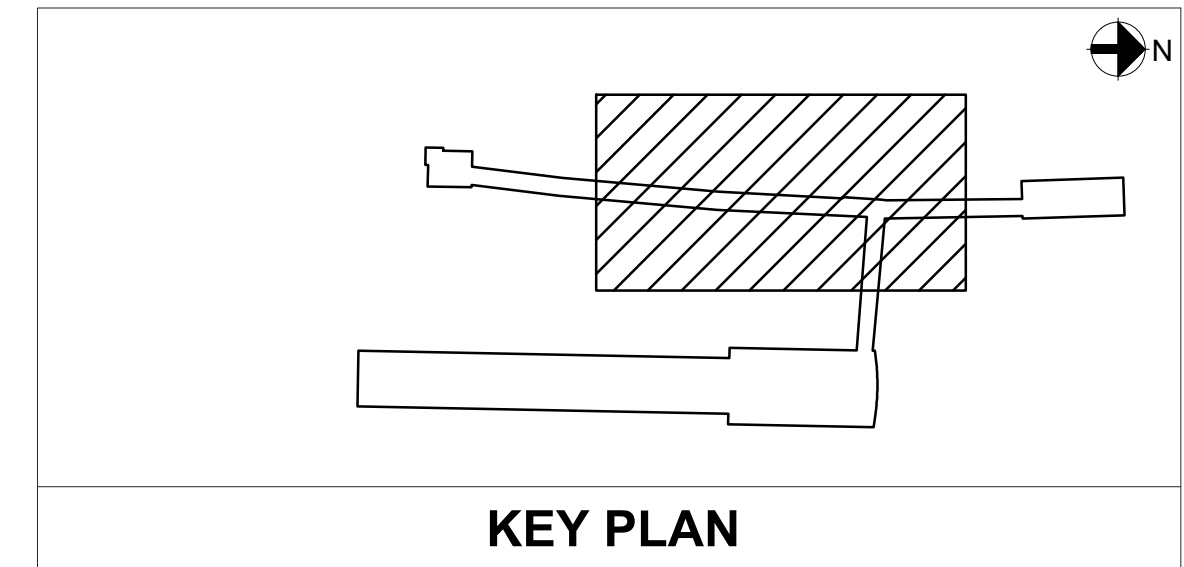
DEPARTMENT OF TRANSPORTATION & ENVIRONMENTAL SERVICES
SITE PLAN NO. _____

DIRECTOR _____ DATE _____

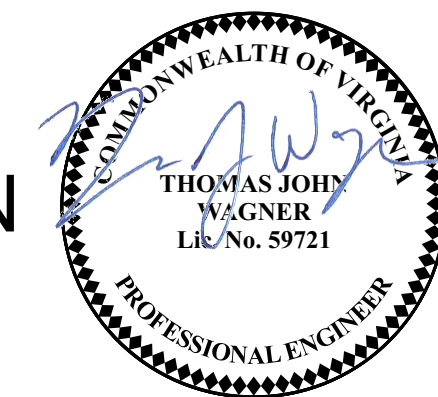
CHAIRMAN, PLANNING COMMISSION _____ DATE _____

DATE RECORDED _____

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



WMATA LDP
COORDINATE
SYSTEM



PROFESSIONAL CERTIFICATION:
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF VIRGINIA.

LICENSE NO. _____
EXPIRATION DATE: _____

9/17/2019 3:13 PM FILE PATH: C:\TEMP\UAS_TASK_62

REFERENCE DRAWINGS				REVISIONS			
DESIGNED	MSP	09/09/2020	DATE	NUMBER	DESCRIPTION	DATE	NUM
DRAWN	AW	09/09/2020	DATE			10/07/2020	1
CHECKED	JD	09/09/2020	DATE				
APPROVED	TW	09/09/2020	DATE				

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES
OFFICE OF THE CHIEF ENGINEER, INFRASTRUCTURE

SUBMITTED _____ DATE _____

APPROVED _____ DATE _____
DIRECTOR



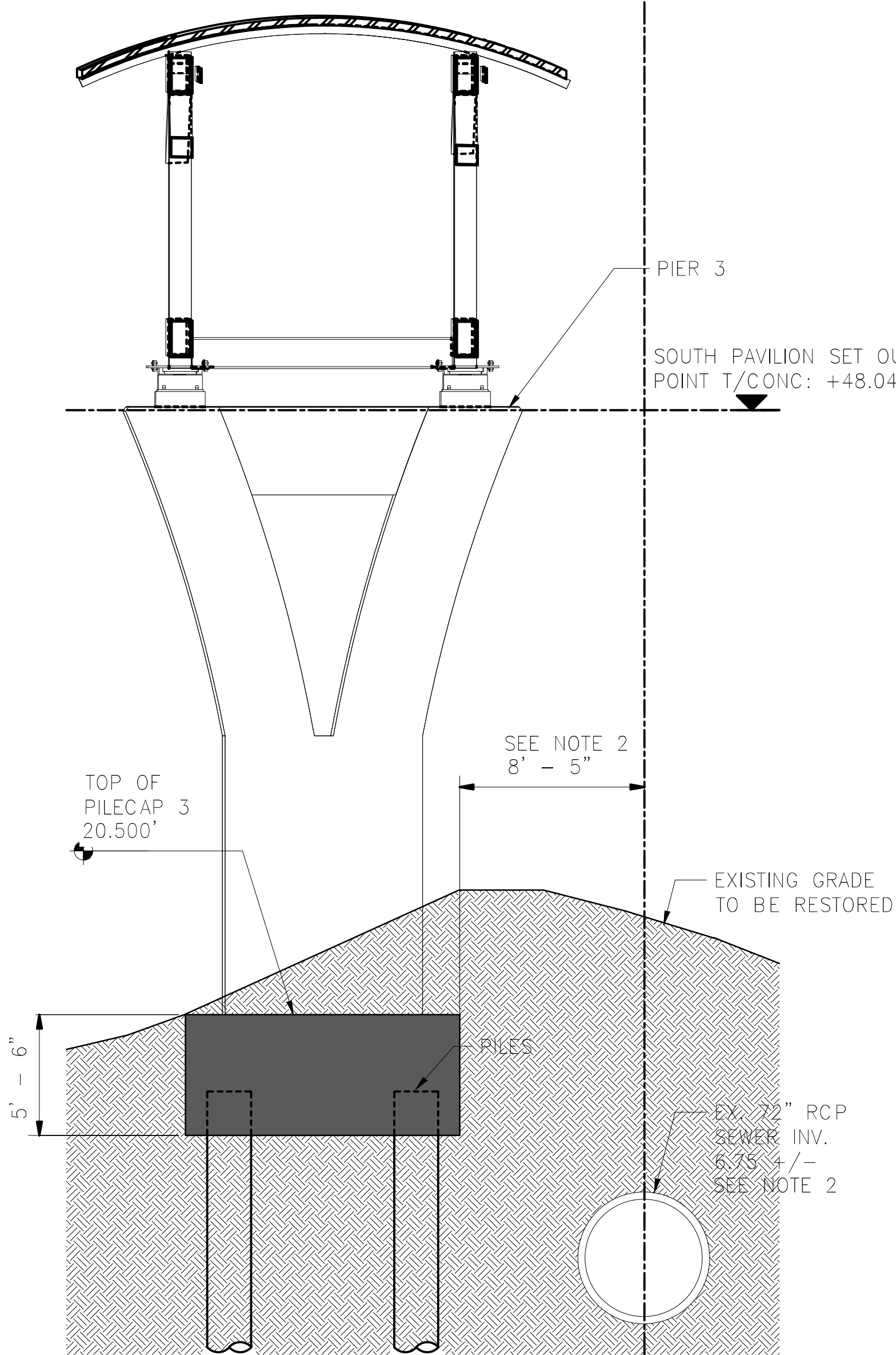
ARUP

M NO.	CONTRACT NO.	SCALE:	DRAWING NO.	SHEET NO.
M1316	FQ16146	1" = 20'	C-132	19 OF 60

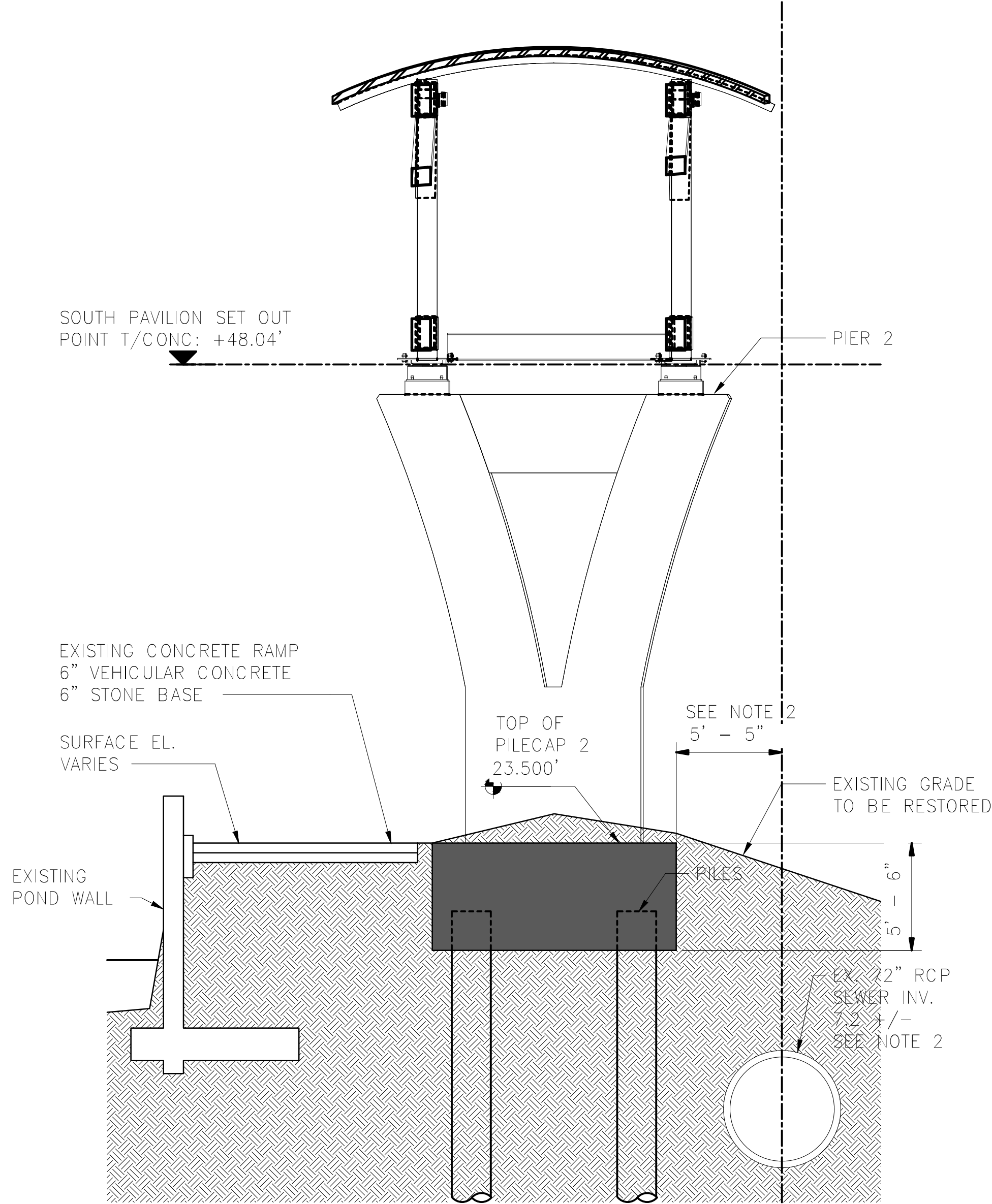
POTOMAC YARD METRORAIL STATION
SOUTH PAVILION, BRIDGE SPAN, AND KNUCKLE EGRESS STAIR
FINAL SITE PLAN
GRADING PLAN - SHEET 2 OF 2

FILE PATH: C:\TEMP\JAS_TASK_62

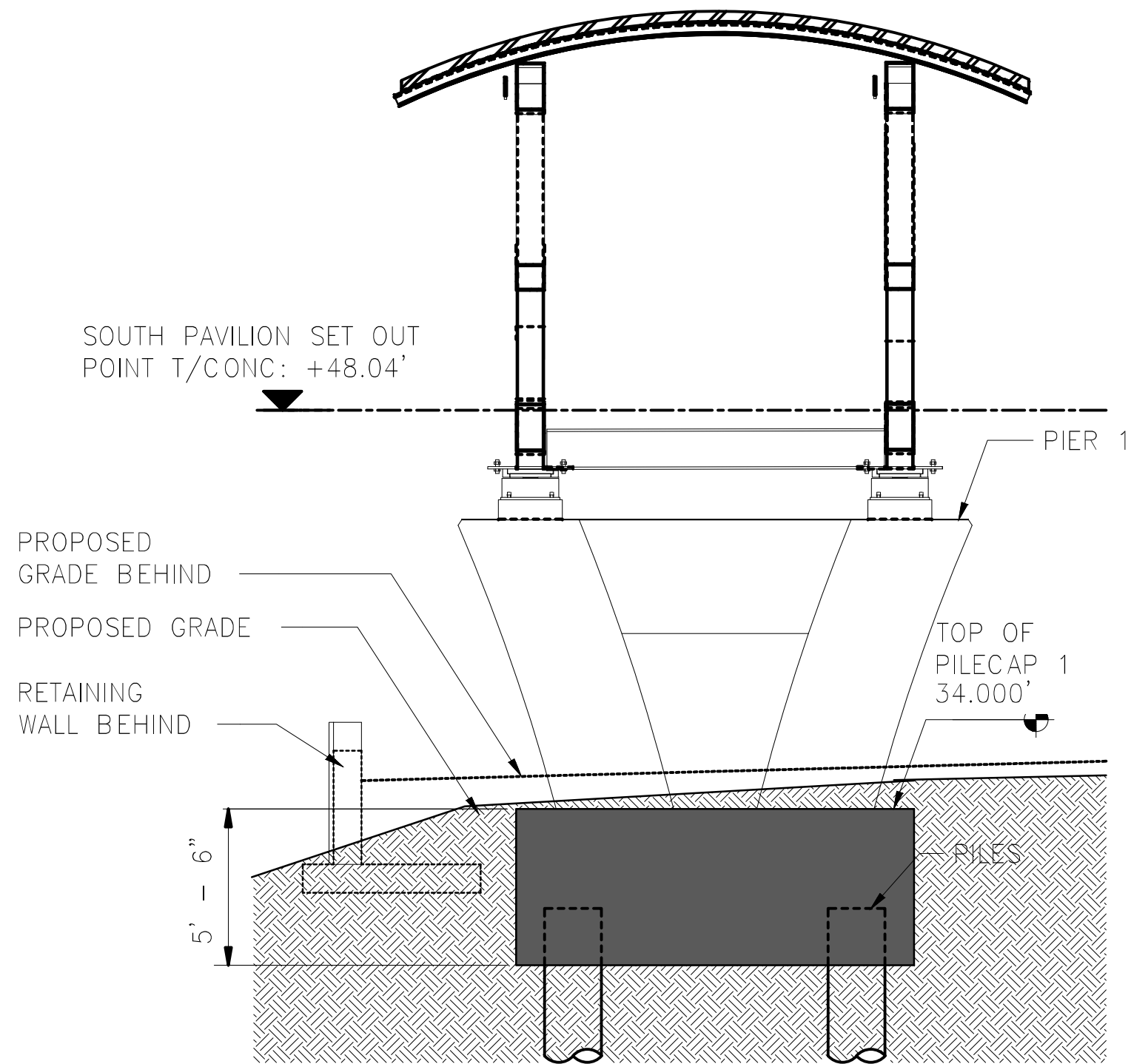
9/17/2019 3:43 PM



SECTION C - PIER 3



SECTION B - PIER 2

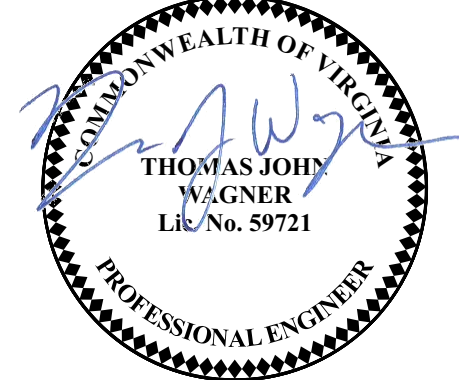
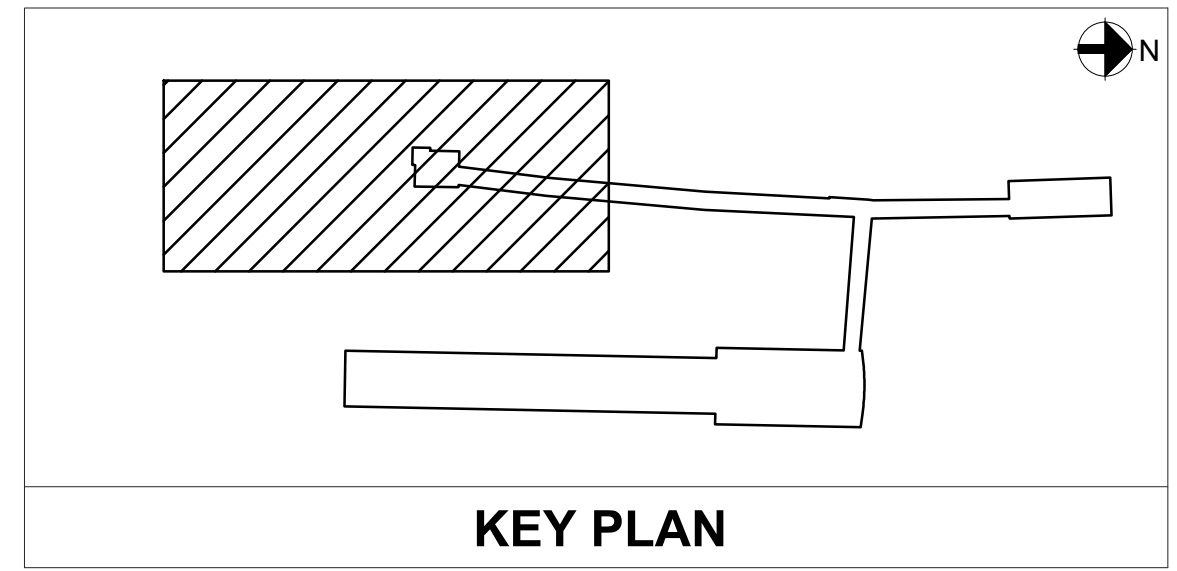


SECTION A - PIER 1

ARCHAEOLOGY NOTES:

- 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 2-161 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.
- THE APPLICANT SHALL CALL ALEXANDRIA ARCHAEOLOGY IMMEDIATELY (703-838-4399) IF ANY BURIED STRUCTURAL REMAINS (WALL FOUNDATIONS, WELLS, PRIVIES, CISTERNS, ETC.) OR CONCENTRATIONS OF ARTIFACTS ARE DISCOVERED DURING DEVELOPMENT. WORK MUST CEASE IN THE AREA OF THE DISCOVERY UNTIL A CITY ARCHAEOLOGIST COMES TO THE SITE AND RECORDS THE FINDS.
- THE 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.

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. _____



PROFESSIONAL CERTIFICATION:
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF VIRGINIA.

LICENSE NO. _____
EXPIRATION DATE: _____

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES
OFFICE OF THE CHIEF ENGINEER, INFRASTRUCTURE

SUBMITTED _____	DATE _____
APPROVED _____	DATE _____
DIRECTOR _____	DATE _____



ARUP

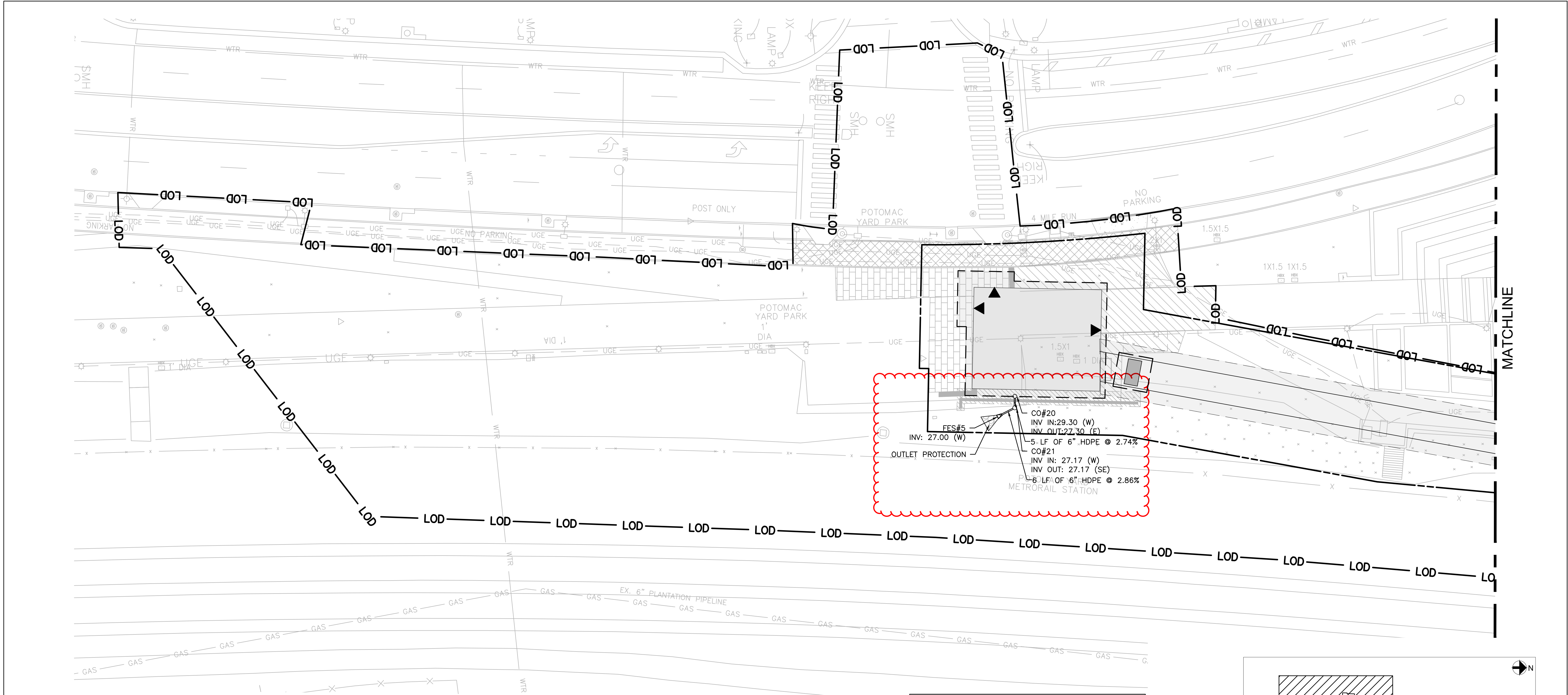
POTOMAC YARD METRORAIL STATION
SOUTH PAVILION, BRIDGE SPAN, AND KNUCKLE EGRESS STAIR

FINAL SITE PLAN

BRIDGE PIER CROSS SECTIONS

M NO. M1316	CONTRACT NO. FQ16146	SCALE: 1" = 5'	DRAWING NO. C-133	SHEET NO. 19A OF 60
-------------	----------------------	----------------	-------------------	---------------------

9/17/2019 3:43 PM
FILE PATH: C:\TEMP\JAS_TASK_62



NOTES:
1) REFER TO DRAWING G-003 FOR LEGEND AND ABBREVIATIONS.

- ARCHAEOLOGY NOTES:
- 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.
 - THE APPLICANT SHALL CALL ALEXANDRIA ARCHAEOLOGY IMMEDIATELY (703-838-4399) IF ANY BURIED STRUCTURAL REMAINS (WALL FOUNDATIONS, WELLS, PRIVIES, CISTERNS, ETC.) OR CONCENTRATIONS OF ARTIFACTS ARE DISCOVERED DURING DEVELOPMENT. WORK MUST CEASE IN THE AREA OF THE DISCOVERY UNTIL A CITY ARCHAEOLOGIST COMES TO THE SITE AND RECORDS THE FINDS.
 - THE 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.

DESIGNED			REFERENCE DRAWINGS		REVISIONS	
DESIGNED	MSP	09/09/2020	NUMBER	DESCRIPTION	DATE	NUM
DRAWN	AW	09/09/2020			10/07/2020	1
CHECKED	JD	09/09/2020				
APPROVED	TW	09/09/2020				

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES
OFFICE OF THE CHIEF ENGINEER, INFRASTRUCTURE

SUBMITTED _____ DATE _____
APPROVED _____ DATE _____
DIRECTOR _____



POTOMAC YARD METRORAIL STATION
SOUTH PAVILION, BRIDGE SPAN, AND KNUCKLE EGRESS STAIR
FINAL SITE PLAN
STORMWATER PLAN - SHEET 1 OF 2

M NO.	CONTRACT NO.	SCALE:	DRAWING NO.	SHEET NO.
M1316	FQ16146	1" = 20'	C-141	20 OF 60

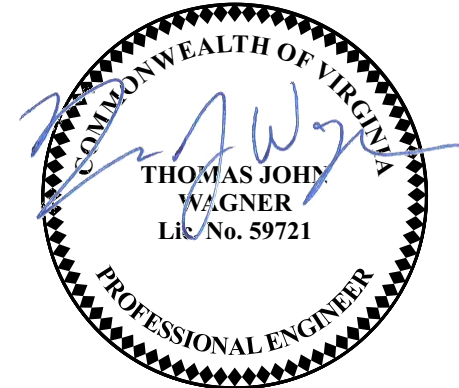
APPROVED
SPECIAL USE PERMIT NO. _____
DEPARTMENT OF PLANNING & ZONING

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

DIRECTOR _____ DATE _____

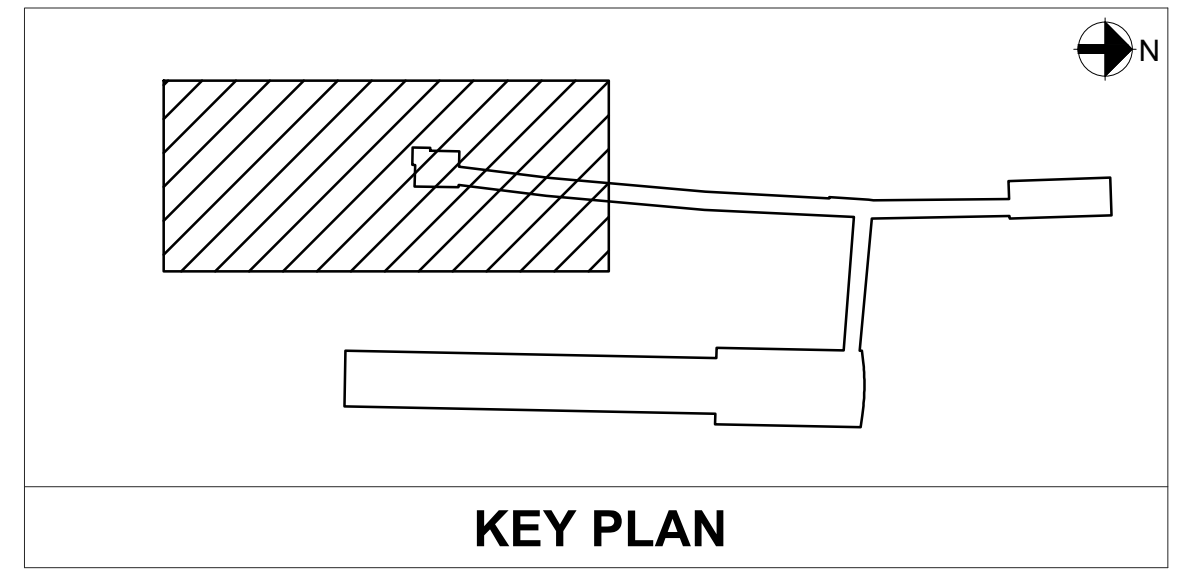
CHAIRMAN, PLANNING COMMISSION _____ DATE _____
DATE RECORDED _____
INSTRUMENT NO. _____ DEED BOOK NO. _____ PAGE NO. _____

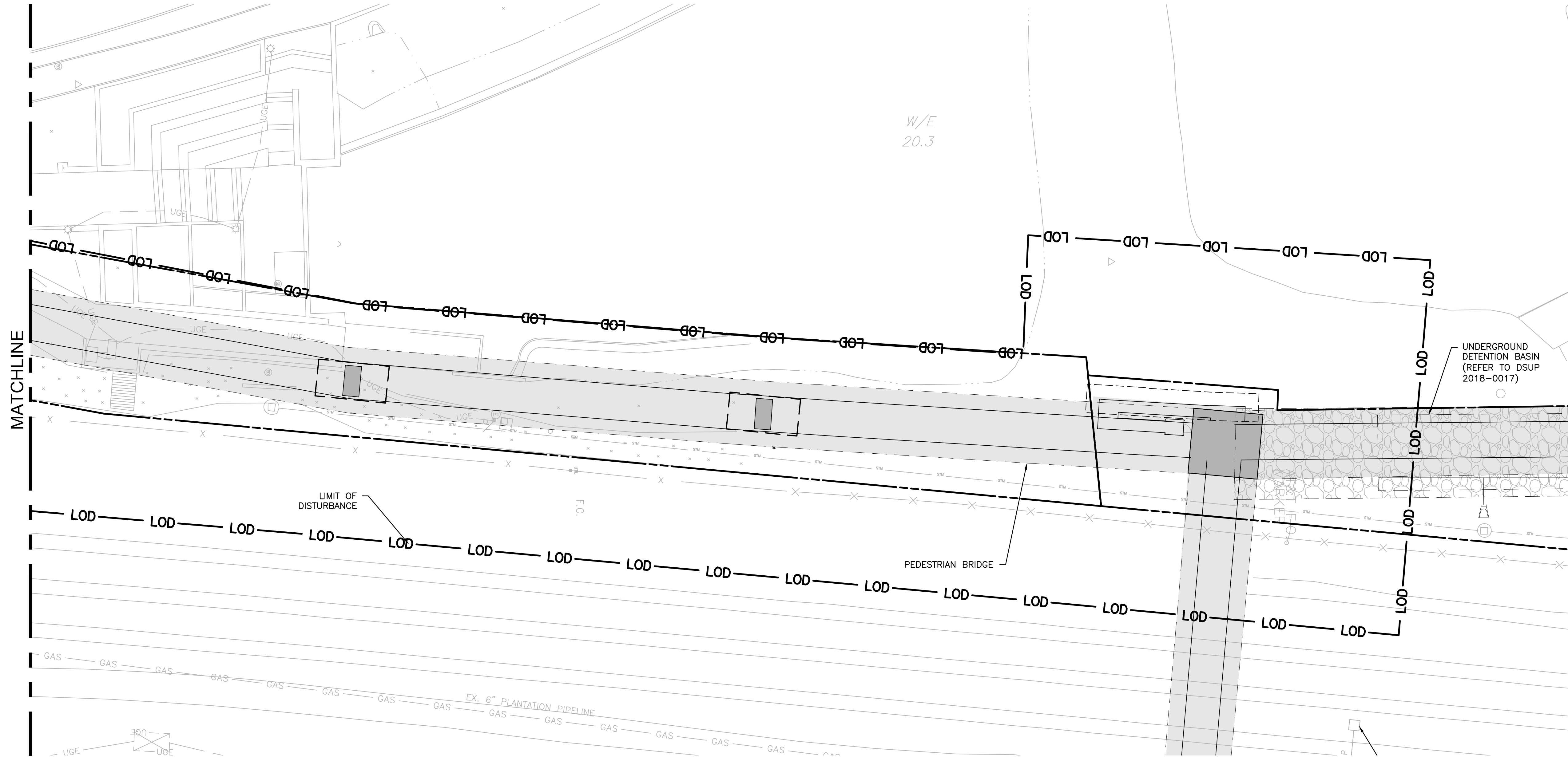
0 20 40 60



PROFESSIONAL CERTIFICATION:
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF VIRGINIA.

LICENSE NO. _____
EXPIRATION DATE: _____





NOTES:
1) REFER TO DRAWING G-003 FOR LEGEND AND ABBREVIATIONS.

- ARCHAEOLOGY NOTES:
- 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.
 - THE APPLICANT SHALL CALL ALEXANDRIA ARCHAEOLOGY IMMEDIATELY (703-838-4399) IF ANY BURIED STRUCTURAL REMAINS (WALL FOUNDATIONS, WELLS, PRIVIES, CISTERNS, ETC.) OR CONCENTRATIONS OF ARTIFACTS ARE DISCOVERED DURING DEVELOPMENT. WORK MUST CEASE IN THE AREA OF THE DISCOVERY UNTIL A CITY ARCHAEOLOGIST COMES TO THE SITE AND RECORDS THE FINDS.
 - THE 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.

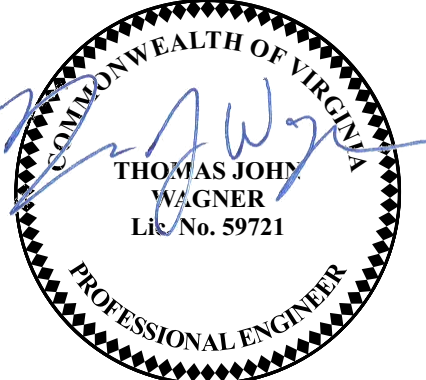
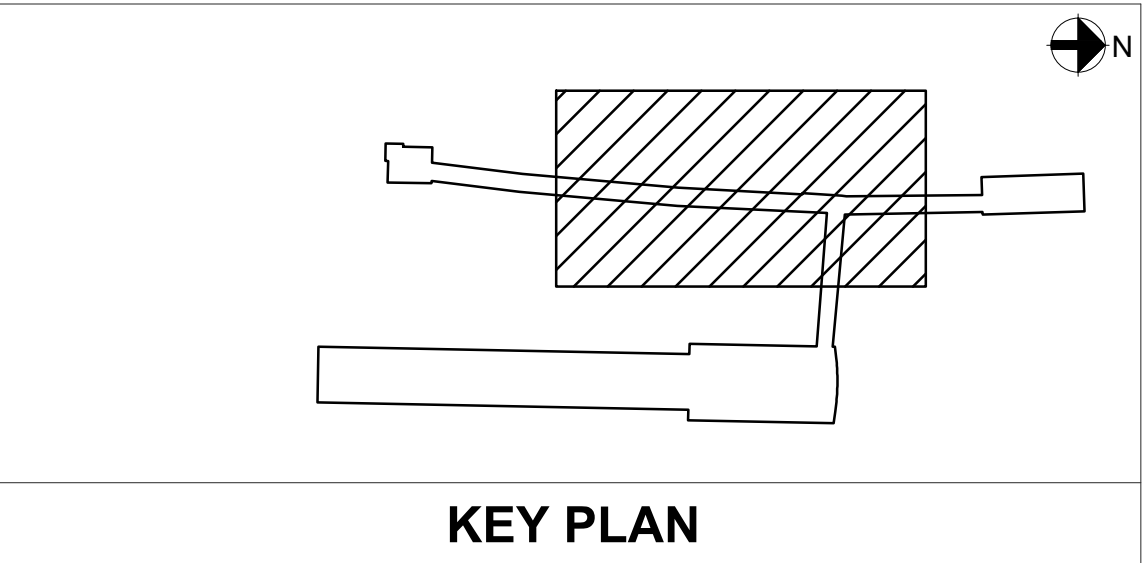
APPROVED
SPECIAL USE PERMIT NO. _____
DEPARTMENT OF PLANNING & ZONING

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. _____

0 20 40 60



PROFESSIONAL CERTIFICATION:
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF VIRGINIA.

LICENSE NO. _____
EXPIRATION DATE: _____

DESIGNED			REFERENCE DRAWINGS				REVISIONS		
	MSP	09/09/2020	NUMBER	DESCRIPTION	DATE	NUM	DESCRIPTION		
DRAWN	AW	09/09/2020			10/07/2020	1	FSP #2		
CHECKED	JD	09/09/2020							
APPROVED	TW	09/09/2020							

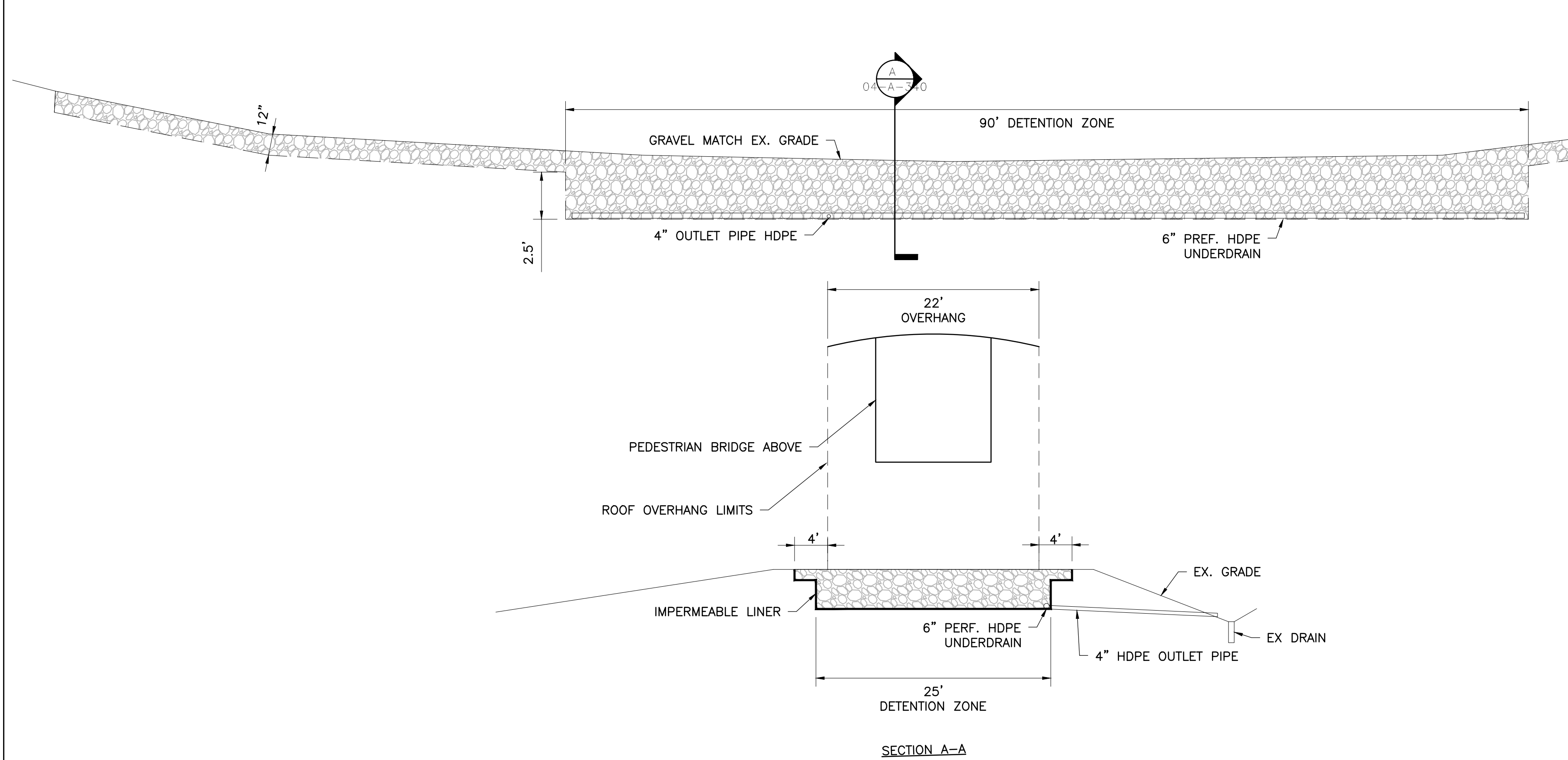
WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES
OFFICE OF THE CHIEF ENGINEER, INFRASTRUCTURE

SUBMITTED _____ DATE _____
APPROVED _____ DATE _____
DIRECTOR _____

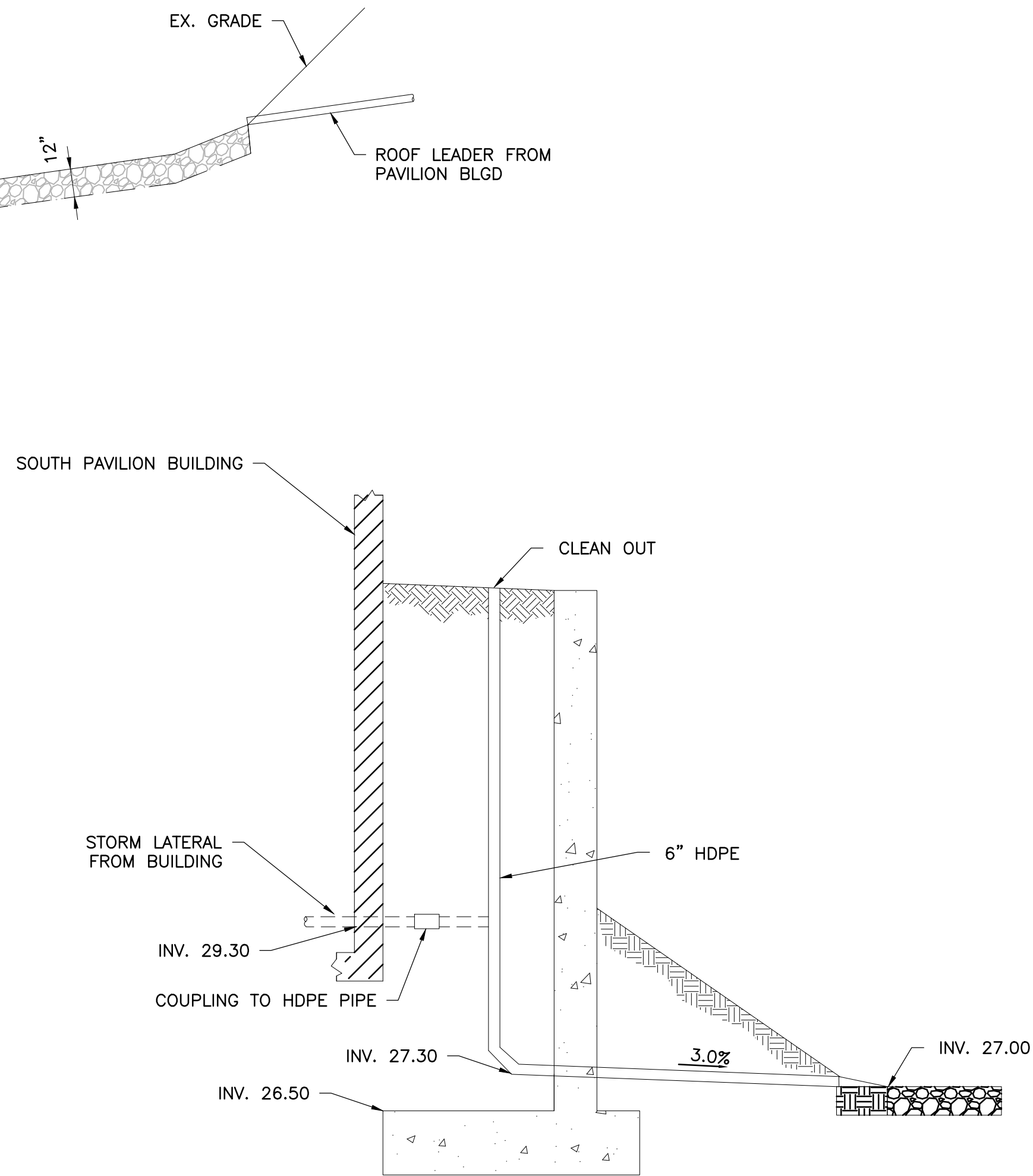


POTOMAC YARD METRORAIL STATION SOUTH PAVILION, BRIDGE SPAN, AND KNUCKLE EGRESS STAIR FINAL SITE PLAN STORMWATER PLAN - SHEET 2 OF 2					SHEET NO.	
M NO.	CONTRACT NO.	SCALE:	DRAWING NO.		21	OF 60
M1316	FQ16146	1" = 20'	C-142			

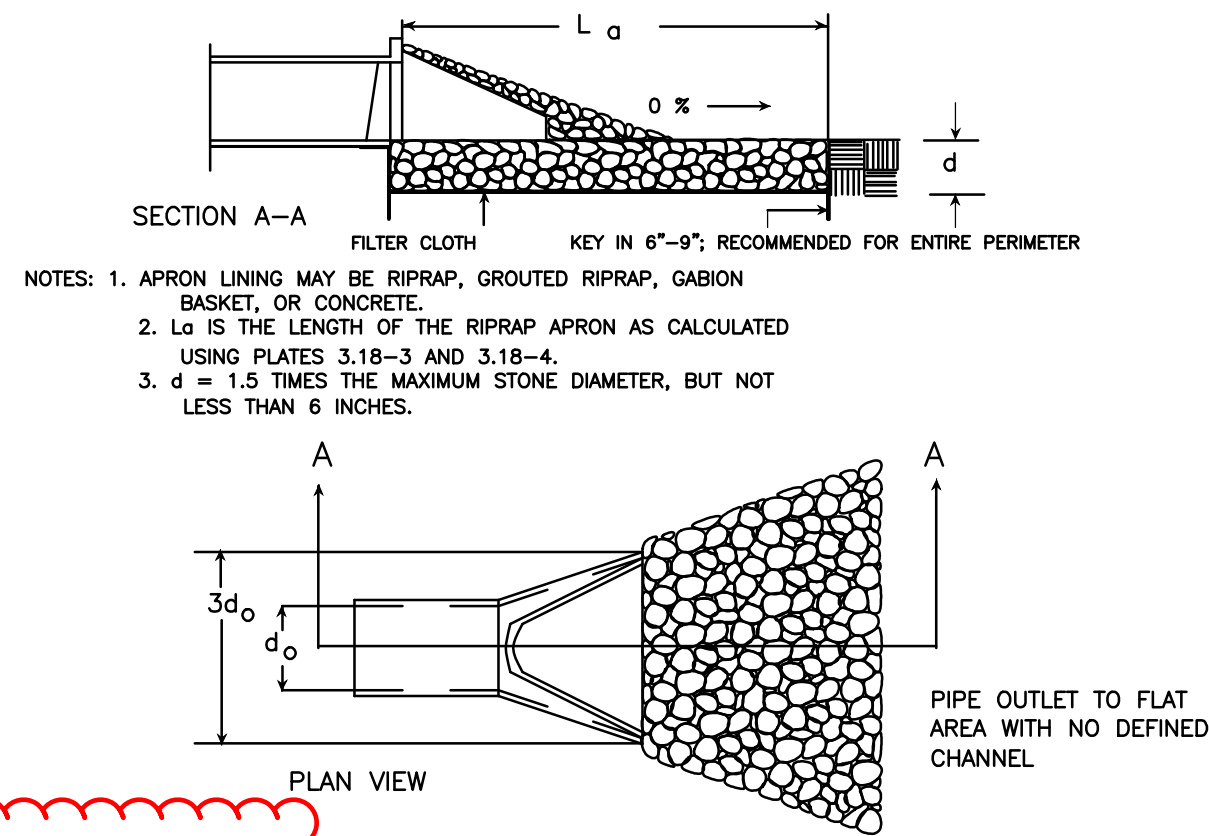
9/17/2019 5:07 PM
FILE PATH: C:\TEMP\UAS_TASK_62



01 UNDERGROUND DETENTION BASIN AT NORTH PAVILION (DSUP 2018-0017)
SCALE: NTS



03 STORMWATER LATERAL DETAIL
SCALE: NTS

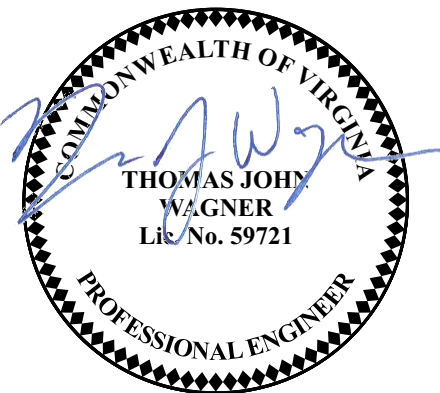
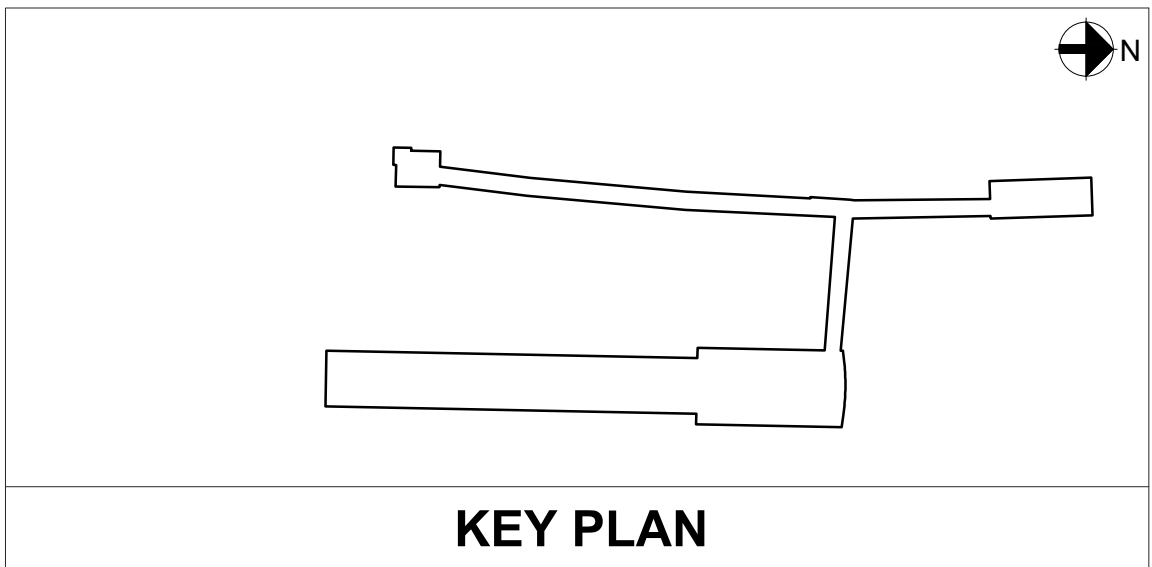


OUTLET ID	d ₀ (in)	Q (cfs)	3D ₀ (FT)	L _a (FT)	W (FT)	D ₉₀ (in)	d (in)
FES #5	6	0.32	1.5	6	6.5	6	12

- NOTES:
- PER PLATE 3.18-3 OF THE VIRGINIA SOIL EROSION AND SEDIMENT CONTROL HANDBOOK, THE DIMENSIONS OF OUTLET PROTECTION ARE DETERMINE BASED ON THE PIPE DIAMETER AND DISCHARGE.
 - Tw<0.5D₀

02 OUTLET PROTECTION
SCALE: NTS

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. _____



PROFESSIONAL CERTIFICATION:
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF VIRGINIA.

LICENSE NO.
EXPIRATION DATE:

		DATE	REFERENCE DRAWINGS		REVISIONS	
			NUMBER	DESCRIPTION	DATE	NUM DESCRIPTION
DESIGNED	MSP	09/09/2020			10/07/2020	1 FSP #2
DRAWN	AW	09/09/2020				
CHECKED	JD	09/09/2020				
APPROVED	TW	09/09/2020				

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES
OFFICE OF THE CHIEF ENGINEER, INFRASTRUCTURE

SUBMITTED _____ DATE _____
APPROVED _____ DATE _____
DIRECTOR _____

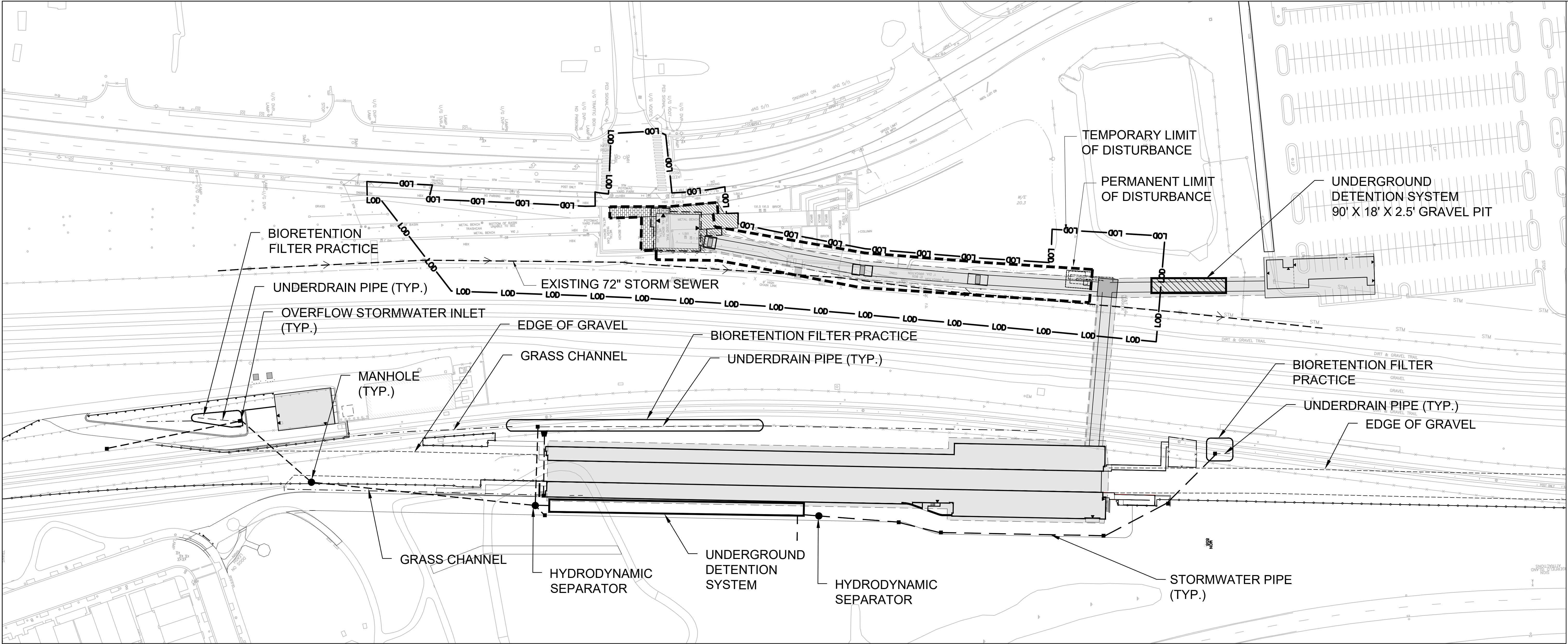


ARUP

POTOMAC YARD METRORAIL STATION
SOUTH PAVILION, BRIDGE SPAN, AND KNUCKLE EGRESS STAIR
FINAL SITE PLAN

STORMWATER MANAGEMENT DETAILS

M NO.	CONTRACT NO.	SCALE:	DRAWING NO.	SHEET NO.
M1316	FQ16146		C-143	22 OF 60



STORMWATER NOTES:
THIS PLAN REPRESENTS THE STORMWATER MANAGEMENT SCHEME FOR THE ENTIRE POTOMAC YARDS METRORAIL STATION PROJECT. THE PROJECT AREA FOR THIS APPLICATION IS THE LIMIT OF DISTURBANCE SHOWN SURROUNDING THE SOUTH PAVILION AND BRIDGE SPAN UP TO AND AROUND THE KNUCKLE PIER. ALL OTHER IMPROVEMENTS AND STORMWATER MANAGEMENT FACILITIES ARE SHOWN FOR REFERENCE. THE OVERALL STORMWATER MANAGEMENT PLAN AND CALCULATIONS FOR THE ENTIRE POTOMAC YARDS DEVELOPMENT ARE APPROVED UNDER DSUP 2018-0017, WHICH INCLUDES AN UNDERGROUND DETENTION BASIN AT THE SOUTH PAVILION. THIS APPLICATION PROPOSES TO REMOVE THE UNDERGROUND BASIN AT THE SOUTH PAVILION.

STORMWATER QUALITY AND QUANTITY TREATMENT CALCULATIONS ARE BASED ON THE PERMANENT LIMITS OF DISTURBANCE WHICH REPRESENT THE LIMITS OF NEW IMPROVEMENTS FOR THE PROJECT AND EXCLUDES AREAS OF TEMPORARY CONSTRUCTION DISTURBANCE FOR STAGING, ACCESS, ETC.

STORMWATER QUALITY TREATMENT CALCULATIONS ARE PROVIDED ON SHEET C-148 AND C-149 FOR THE ENTIRE POTOMAC YARDS DEVELOPMENT, INCLUDING THE SOUTH PAVILION AND BRIDGE. BECAUSE THE TREATMENT BMP'S ARE ALL OUTSIDE OF THIS APPLICATION'S PROJECT AREA, THE OVERALL DESIGN IS SHOWN HERE FOR REFERENCE. FOR DETAILED INFORMATION ON THE STORMWATER FACILITIES OUTSIDE OF THIS PROJECT AREA, REFER TO DSUP 2018-0017.

STORMWATER QUANTITY TREATMENT FOR THE WEST SIDE (DRAINAGE AREAS E2, P2 & P3) IS PROVIDED BY THE UNDERGROUND BASIN AT THE NORTH PAVILION. THIS AREA DRAINS TO THE EXISTING 72" STORM SEWER RUNNING PARALLEL TO THE NORTH AND SOUTH BRIDGE SPANS AND DISCHARGES TO FOUR MILE RUN TO THE NORTH. THEREFORE, THESE DRAINAGE AREAS ARE SEPARATE FROM THE EAST SIDE OF THE DEVELOPMENT AND QUANTITY TREATMENT CALCULATIONS IN THIS APPLICATION ARE FOR THE WEST SIDE ONLY. REFER TO EXISTING AND PROPOSED DRAINAGE AREA PLANS ON SHEETS C-145 AND C-146.

REFER TO STORMWATER NARRATIVE ON C-150 FOR ADDITIONAL STORMWATER MANAGEMENT INFORMATION.

APPROVED

SPECIAL USE PERMIT NO. _____

DEPARTMENT OF PLANNING & ZONING

DIRECTOR _____ DATE _____

DEPARTMENT OF TRANSPORTATION & ENVIRONMENTAL SERVICES

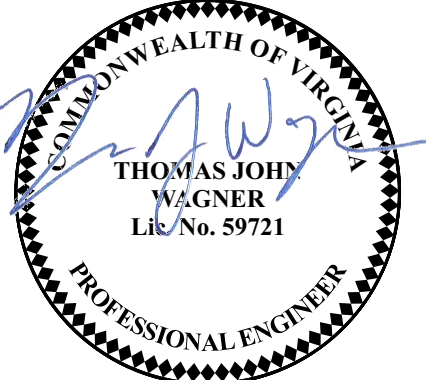
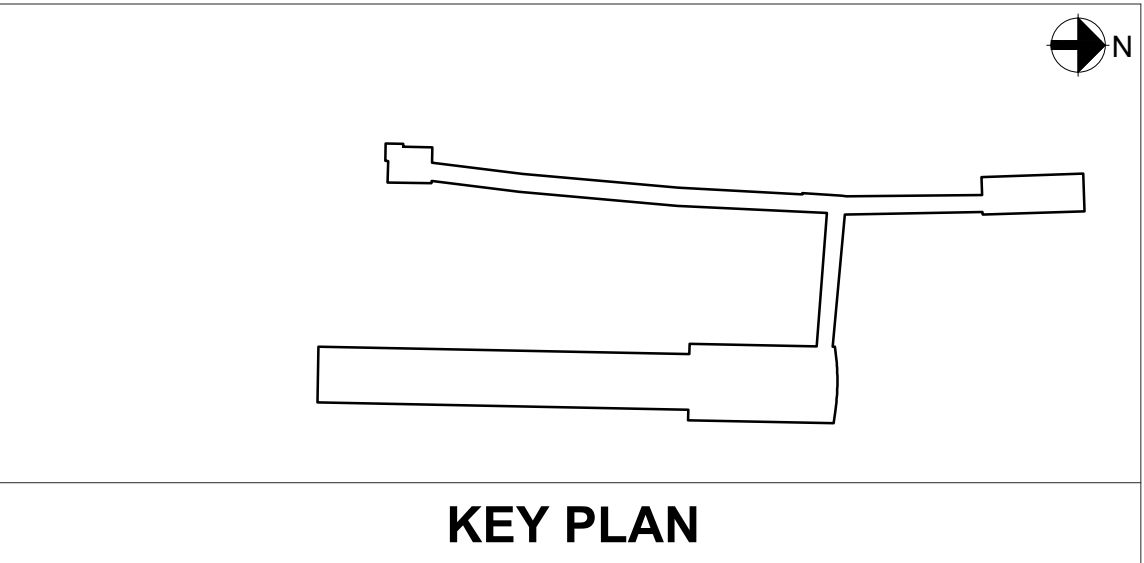
SITE PLAN NO. _____

DIRECTOR _____ DATE _____

CHAIRMAN, PLANNING COMMISSION _____ DATE _____

DATE RECORDED _____

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



PROFESSIONAL CERTIFICATION:
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF VIRGINIA.

LICENSE NO. _____
EXPIRATION DATE: _____

			REFERENCE DRAWINGS		REVISIONS	
			NUMBER	DESCRIPTION	DATE	NUM DESCRIPTION
DESIGNED	MSP	09/09/2020			10/07/2020	1 FSP #2
DRAWN	AW	09/09/2020				
CHECKED	JD	09/09/2020				
APPROVED	TW	09/09/2020				

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES

OFFICE OF THE CHIEF ENGINEER, INFRASTRUCTURE

SUBMITTED _____ DATE _____

APPROVED _____ DATE _____

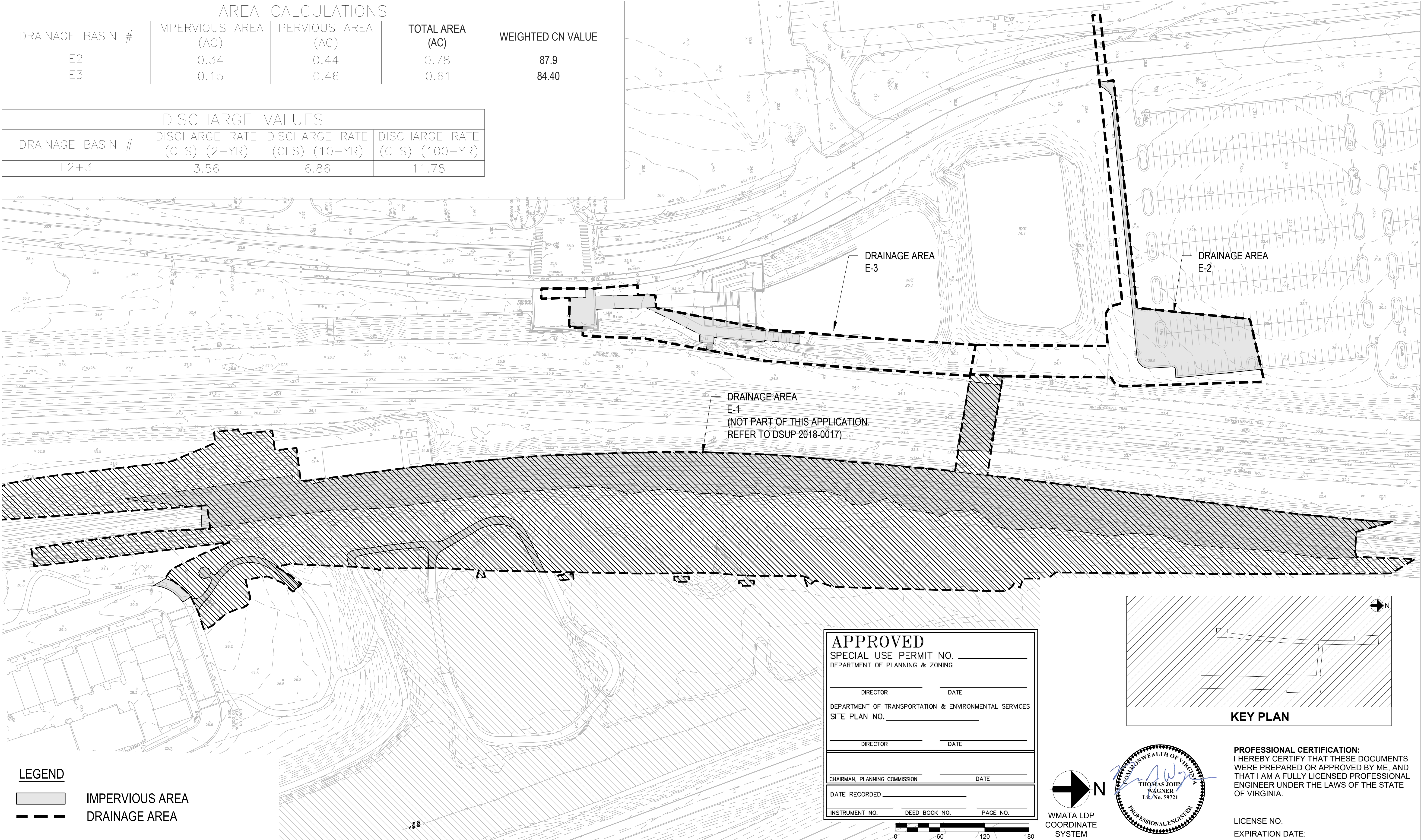
DIRECTOR _____ DATE _____



POTOMAC YARD METRORAIL STATION SOUTH PAVILION, BRIDGE SPAN, AND KNUCKLE EGRESS STAIR FINAL SITE PLAN					OVERALL STORMWATER MANAGEMENT PLAN	
M NO.	CONTRACT NO.	SCALE:	DRAWING NO.	SHEET NO.		
M1316	FQ16146	1" = 60'	C-144	23 OF 60		

AREA CALCULATIONS				
DRAINAGE BASIN #	IMPERVIOUS AREA (AC)	PERVIOUS AREA (AC)	TOTAL AREA (AC)	WEIGHTED CN VALUE
E2	0.34	0.44	0.78	87.9
E3	0.15	0.46	0.61	84.40

DISCHARGE VALUES			
DRAINAGE BASIN #	DISCHARGE RATE (CFS) (2-YR)	DISCHARGE RATE (CFS) (10-YR)	DISCHARGE RATE (CFS) (100-YR)
E2+3	3.56	6.86	11.78



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. _____

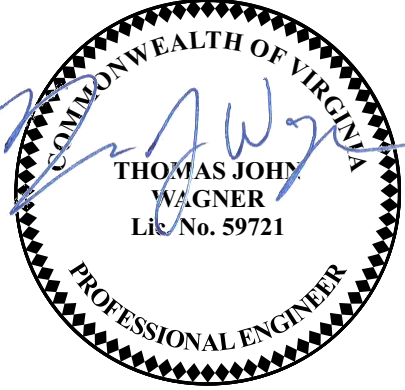
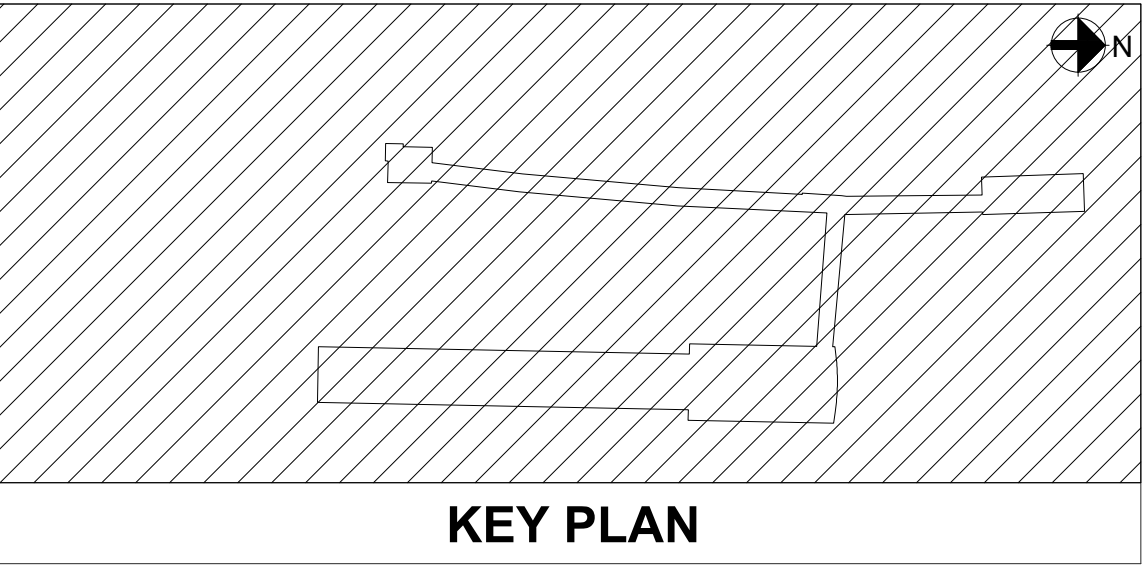
060120180

0

60

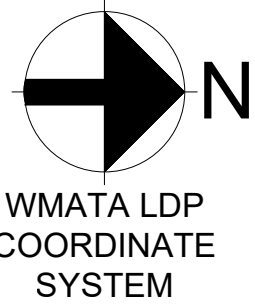
120

180



PROFESSIONAL CERTIFICATION:
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF VIRGINIA.

LICENSE NO.
EXPIRATION DATE:



WMATA LDP
COORDINATE
SYSTEM

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES
OFFICE OF THE CHIEF ENGINEER, INFRASTRUCTURE

POTOMAC YARD METRORAIL STATION
SOUTH PAVILION, BRIDGE SPAN, AND KNUCKLE EGRESS STAIR
FINAL SITE PLAN

EXISTING DRAINAGE AREA PLAN

SUBMITTED _____ DATE _____
APPROVED _____ DATE _____
DIRECTOR _____



ARUP

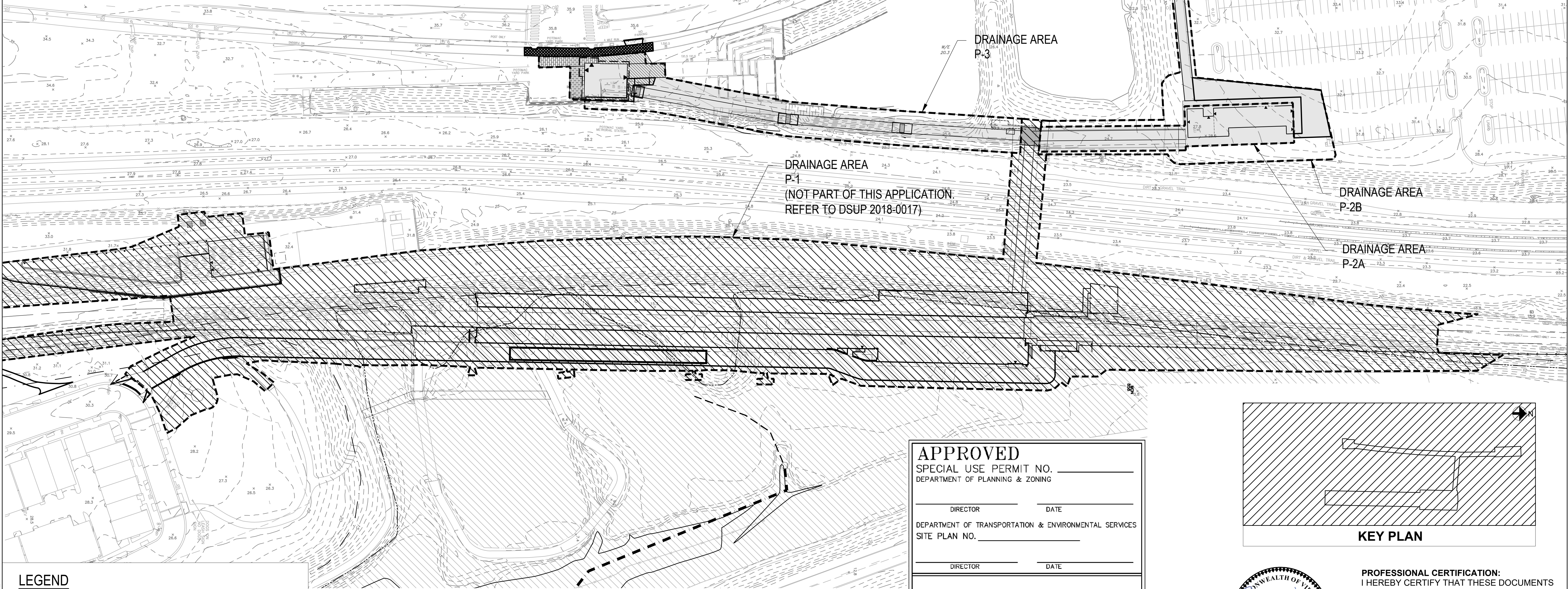
M NO.	CONTRACT NO.	SCALE:	DRAWING NO.	SHEET NO.
M1316	FQ16146	1" = 60'	C-145	24 OF 60

9/17/2019 5:11 PM
FILE PATH: C:\TEMP\UAS_TASK_62

			REFERENCE DRAWINGS		REVISIONS	
			NUMBER	DESCRIPTION	DATE	NUM DESCRIPTION
DESIGNED	MSP	09/09/2020			10/07/2020	1 FSP #2
DRAWN	AW	09/09/2020				
CHECKED	JD	09/09/2020				
APPROVED	TW	09/09/2020				

AREA CALCULATIONS				
DRAINAGE BASIN #	IMPERVIOUS AREA (AC)	PERVIOUS AREA (AC)	TOTAL AREA (AC)	WEIGHTED CN VALUE
P2-A	0.27	0.00	0.27	98.0
P2-B	0.22	0.25	0.47	88.4
P3	0.59	0.39	0.20	91.9

DISCHARGE RATE VALUES			
DRAINAGE BASIN #	DISCHARGE RATE (CFS) (2-YR)	DISCHARGE RATE (CFS) (10-YR)	DISCHARGE RATE (CFS) (100-YR)
P2+P3	3.50	6.14	10.00



LEGEND

--- DRAINAGE AREA

IMPERVIOUS AREA

APPROVED

SPECIAL USE PERMIT NO. _____

DEPARTMENT OF PLANNING & ZONING

DIRECTOR _____ DATE _____

DEPARTMENT OF TRANSPORTATION & ENVIRONMENTAL SERVICES

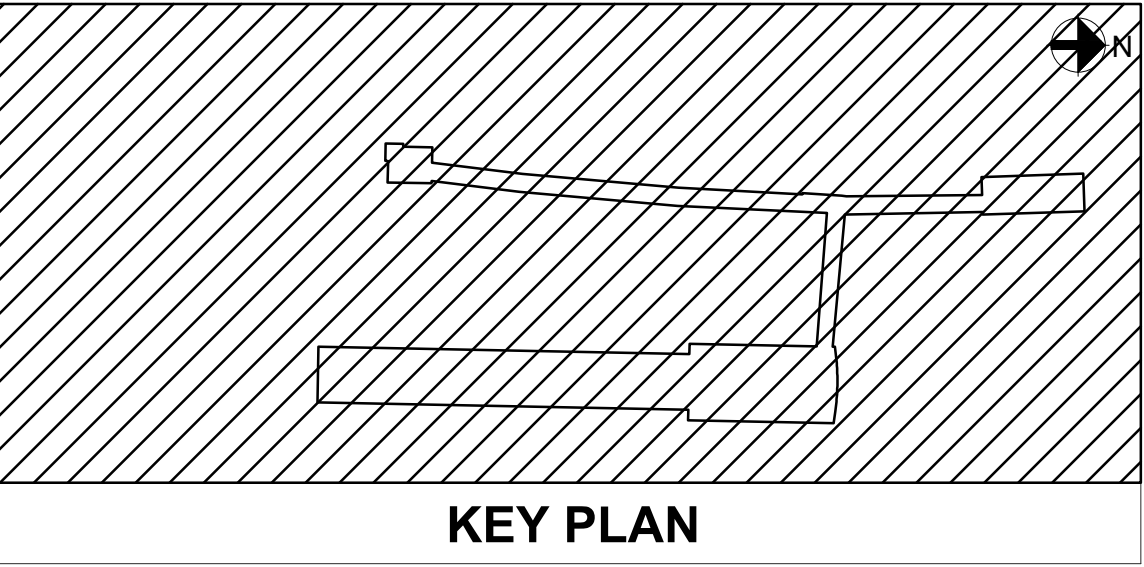
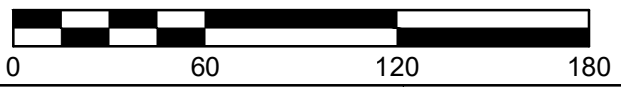
SITE PLAN NO. _____

DIRECTOR _____ DATE _____

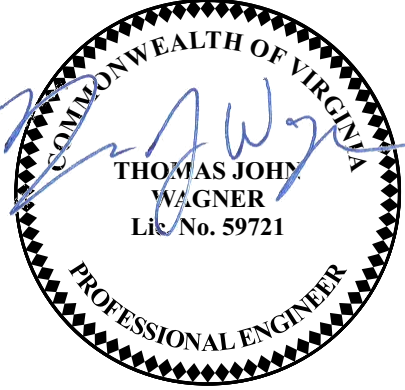
CHAIRMAN, PLANNING COMMISSION _____ DATE _____

DATE RECORDED _____

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



WMATA LDP
COORDINATE
SYSTEM



PROFESSIONAL CERTIFICATION:
I HEREBY CERTIFY THAT THESE DOCUMENTS
WERE PREPARED OR APPROVED BY ME, AND
THAT I AM A FULLY LICENSED PROFESSIONAL
ENGINEER UNDER THE LAWS OF THE STATE
OF VIRGINIA.

LICENSE NO.
EXPIRATION DATE:

DESIGNED	MSP	09/09/2020	REFERENCE DRAWINGS		REVISIONS	
			NUMBER	DESCRIPTION	DATE	NUM DESCRIPTION
DRAWN	AW	09/09/2020			10/07/2020	1 FSP #2
CHECKED	JD	09/09/2020				
APPROVED	TW	09/09/2020				

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES
OFFICE OF THE CHIEF ENGINEER, INFRASTRUCTURE

SUBMITTED _____ DATE _____

APPROVED _____ DATE _____

DIRECTOR _____



ARUP

POTOMAC YARD METRORAIL STATION
SOUTH PAVILION, BRIDGE SPAN, AND KNUCKLE EGRESS STAIR
FINAL SITE PLAN
PROPOSED DRAINAGE AREA PLAN

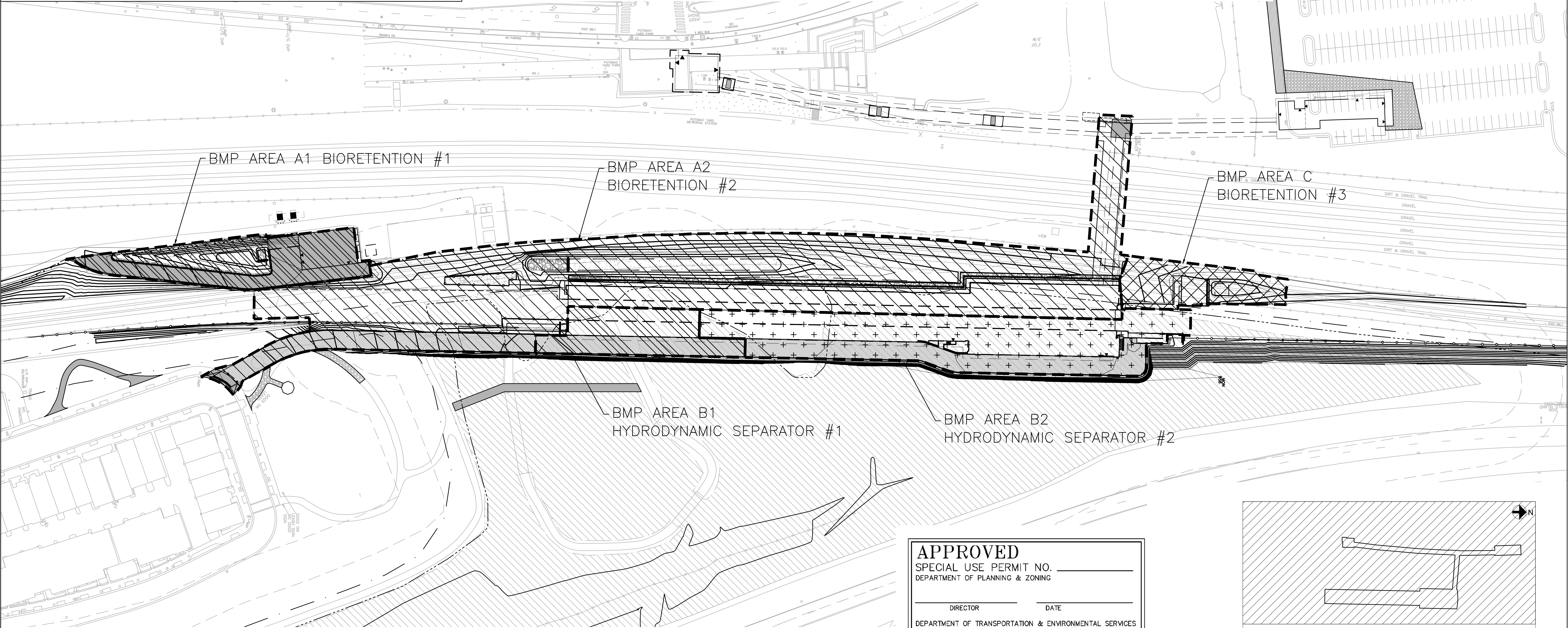
M NO.	CONTRACT NO.	SCALE:	DRAWING NO.	SHEET NO.
M1316	FQ16146	1" = 60'	C-146	25 OF 60

DRAINAGE AREA A (D.A. A)
D.A. A1= 0.39 ac
D.A. A2= 2.49 ac
TOTAL AREA= 2.88 ac

DRAINAGE AREA B (D.A. B)
D.A. B1= 0.26 ac
D.A. B2= 0.81 ac
TOTAL AREA= 1.07 ac

DRAINAGE AREA C (D.A. C)
D.A. C= 0.22 ac
TOTAL AREA= 0.22 ac

WEIGHTED CN AND DISCHARGE RATE VALUES					
DRAINAGE BASIN #	WEIGHTED CN VALUE	DISCHARGE RATE (CFS) (1-YR)	DISCHARGE RATE (CFS) (2-YR)	DISCHARGE RATE (CFS) (10-YR)	DISCHARGE RATE (CFS) (100-YR)
A1	92.00	1.00	1.23	2.18	3.34
A2	89.00	5.70	7.20	13.27	20.77
B1	98.00	0.80	0.96	1.57	2.33
B2	98.00	2.49	2.97	4.86	7.22
C	83.00	0.43	0.58	1.20	2.00



NOTE:
THIS STORMWATER BMP PLAN IS FOR REFERENCE ONLY. IT PROVIDES INFORMATION RELATED TO THE WATER QUALITY DESIGN FOR THE WHOLE POTOMAC YARDS METRORAIL STATION PROJECT, INCLUDING THE PROJECT AREA WITHIN THIS APPLICATION. WATER QUALITY MANAGEMENT IS PROVIDED AROUND THE STATION AS INDICATED ON THE OVERALLS TORMWATER MANAGEMENT PLAN AND ON THIS BMP AREA PLAN. FOR WATER QUALITY CALCULATIONS OF THE POTOMAC YARDS METRORAIL STATION PROJECT, REFER TO THE APPROVED DSUP 2018-0017.

APPROVED

SPECIAL USE PERMIT NO. _____

DEPARTMENT OF PLANNING & ZONING

DIRECTOR _____ DATE _____

DEPARTMENT OF TRANSPORTATION & ENVIRONMENTAL SERVICES

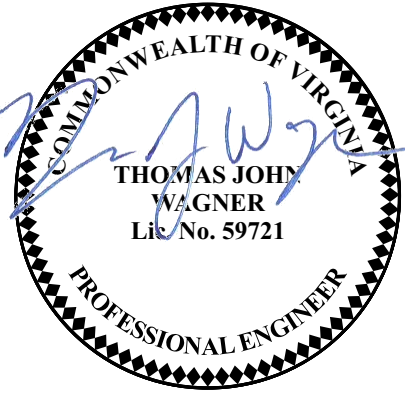
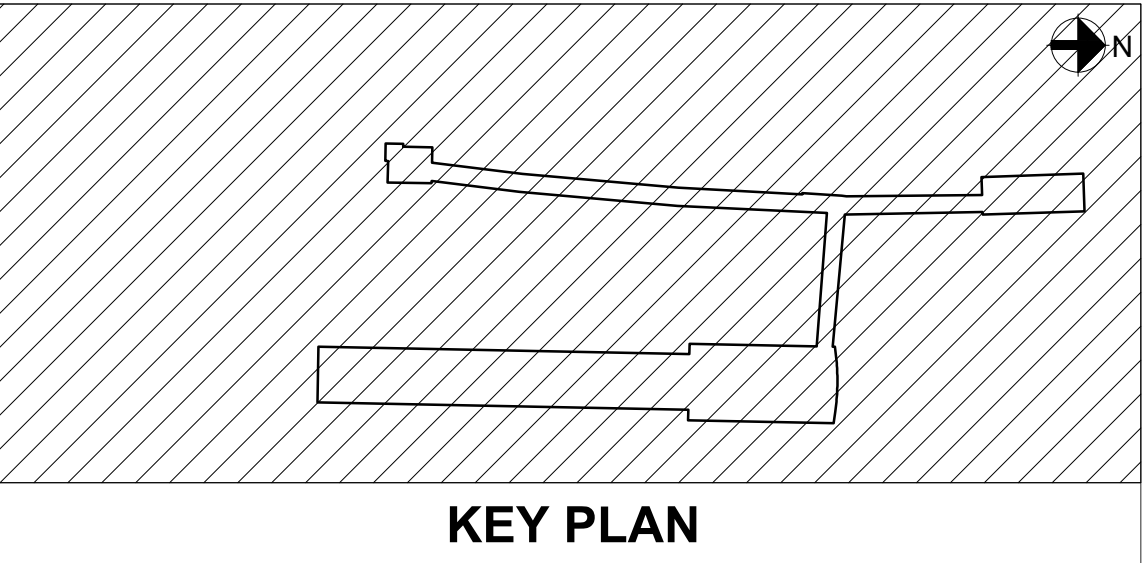
SITE PLAN NO. _____

DIRECTOR _____ DATE _____

CHAIRMAN, PLANNING COMMISSION _____ DATE _____

DATE RECORDED _____

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



PROFESSIONAL CERTIFICATION:
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF VIRGINIA.

LICENSE NO.
EXPIRATION DATE:

REFERENCE DRAWINGS			REVISIONS		
DESIGNED	DATE	NUMBER	DATE	NUM	DESCRIPTION
MSP	09/09/2020		10/07/2020	1	FSP #2
DRAWN	09/09/2020				
CHECKED	09/09/2020				
APPROVED	09/09/2020				
TW					

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES
OFFICE OF THE CHIEF ENGINEER, INFRASTRUCTURE

SUBMITTED _____ DATE _____

APPROVED _____ DATE _____

DIRECTOR _____



POTOMAC YARD METRORAIL STATION
SOUTH PAVILION, BRIDGE SPAN, AND KNUCKLE EGRESS STAIR
FINAL SITE PLAN
BMP DRAINAGE AREA PLAN

M NO.	CONTRACT NO.	SCALE:	DRAWING NO.	SHEET NO.
M1316	FQ16146	1" = 60'	C-147	26 OF 60

BMP Standards and Specifications		Q2 2013 Draft BMP Standards and Specifications		CLEAR ALL		data input tools	
Project Name:	WMATA POTOMAC YARD METRO STATION					constant values	
Date:	11/2/2018					calculation tools	
	Linear Development?	No				final results	
Site Information							
Post-Development Project (Treatment Volume and Loads)							
Enter Total Disturbed Area (acres) →				7.06	Check:		
				20%	BMP Design Specifications List: 2013 Draft Sids & Specs		
The site's net increase in impervious cover (acres) is:				1.07	Linear project? No		
Post-Development TP Load Reduction for Site (lb/yr):				3.94	Land cover areas entered correctly? <input checked="" type="checkbox"/>		
					Total disturbed area entered? <input checked="" type="checkbox"/>		
Pre-ReDevelopment Land Cover (acres)							
	A Soils	B Soils	C Soils	D Soils	Totals		
Forest/Open Space (acres) – undisturbed	0.00	0.00	0.00	3.31	3.31		
Forest/Open Space (acres) – disturbed, graded for use or other turf to be mowed/managed	0.00	0.00	0.00	1.57	1.57		
Impervious Cover (acres)	0.00	0.00	0.00	2.18	2.18		
					7.06		
Post-Development Land Cover (acres)							
	A Soils	B Soils	C Soils	D Soils	Totals		
Forest/Open Space (acres) – undisturbed	0.00	0.00	0.00	0.30	0.30		
Forest/Open Space (acres) – disturbed, graded for use or other turf to be mowed/managed	0.00	0.00	0.00	3.51	3.51		
Impervious Cover (acres)	0.00	0.00	0.00	3.25	3.25		
					7.06		
* Forest/Open Space areas must be protected in accordance with the Virginia Buffer Reduction Method							
Constants							
Annual Rainfall (inches)	43	Runoff Coefficients (lv)		A Soils	B Soils	C Soils	D Soils
Tanger Rainfall Event (inches)	1.00	Forest/Open Space (acres)	0.02	0.03	0.04	0.05	
Peak Precipitation (TP) (inches)	0.26	Managed Turf (acres)	0.15	0.20	0.22	0.25	
Total Nitrogen (TN) (lb/acre)	1.86	Impervious Cover	0.95	0.95	0.95	0.95	
TP Load (lb/acre)	0.61						
TP (inches) correction factor	0.50						
LAND COVER SUMMARY – PRE-REDEVELOPMENT							
Land Cover Summary Pre				Land Cover Summary Post			
Pre-Development	Used	Adjusted ¹		Post ReDev. & New Impervious	Post-ReDevelopment	Land Cover Summary Post	Land Cover Summary Post
Forest/Open Space (acres)	3.31	2.24		Forest/Open Space (acres)	0.30	Forest/Open Space (acres)	0.30
Weighted Runoff (acres)	0.05	0.05		Weighted Runoff (acres)	0.05	Weighted Runoff (acres)	0.05
% Forest	47%	37%		% Forest	4%	% Forest	5%
Managed Turf Cover (acres)	1.57	1.57		Managed Turf Cover (acres)	3.51	Managed Turf Cover (acres)	3.51
Weighted Runoff (acres)	0.25	0.25		Weighted Runoff (acres)	0.25	Weighted Runoff (acres)	0.25
% Managed Turf	22%	26%		% Managed Turf	59%	% Managed Turf	59%
Impervious Cover (acres)	2.18	2.18		Impervious Cover (acres)	3.25	Impervious Cover (acres)	3.25
% Impervious	31%	36%		% Impervious	46%	% Impervious	46%
Total Site Area (acres)	7.06	5.59		Total Site Area (acres)	7.06	Total Site Area (acres)	7.06
Site Rv	0.37	0.43		Site Rv	0.49	Site Rv	0.49
Treatment Volume and Nutrient Load							
Pre-ReDevelopment Treatment Volume (acre-ft)	0.2191	0.2146		Final Post-Development Treatment Volume (acre-ft)	0.3317	Post-ReDevelopment Treatment Volume (acre-ft)	0.2470
Pre-ReDevelopment Treatment Volume (cubic feet)	9,343	9,349		Final Post-Development Treatment Volume (cubic feet)	14,447	Post-ReDevelopment Treatment Volume (cubic feet)	10,750
Pre-ReDevelopment TP Load (lb/yr)	6.00	5.87		Final Post-Development TP Load (lb/yr)	9.08	Post-ReDevelopment TP Load (lb/yr)	6.76
Pre-ReDevelopment TP Load per acre (lb/acre/yr)	0.85	0.98		Final Post-Development TP Load per acre (lb/acre/yr)	1.29	Post-ReDevelopment TP Load per acre (lb/acre/yr)	1.33
Baseline TP Load (lb/yr)				Baseline TP Load (lb/yr)		Baseline TP Load (lb/yr)	
0.61 lb/acre/yr applied to pre-redevelopment area excluding service land (projected for new impervious cover)		2.46		0.61 lb/acre/yr applied to pre-redevelopment area excluding service land (projected for new impervious cover)		2.46	
Treatment Volume and Nutrient Load							
Pre-ReDevelopment Treatment Volume (acre-ft)	0.2191	0.2146		Final Post-Development Treatment Volume (acre-ft)	0.3317	Post-ReDevelopment Treatment Volume (acre-ft)	0.2470
Pre-ReDevelopment Treatment Volume (cubic feet)	9,343	9,349		Final Post-Development Treatment Volume (cubic feet)	14,447	Post-ReDevelopment Treatment Volume (cubic feet)	10,750
Pre-ReDevelopment TP Load (lb/yr)	6.00	5.87		Final Post-Development TP Load (lb/yr)	9.08	Post-ReDevelopment TP Load (lb/yr)	6.76
Pre-ReDevelopment TP Load per acre (lb/acre/yr)	0.85	0.98		Final Post-Development TP Load per acre (lb/acre/yr)	1.29	Post-ReDevelopment TP Load per acre (lb/acre/yr)	1.33
Baseline TP Load (lb/yr)				Baseline TP Load (lb/yr)		Baseline TP Load (lb/yr)	
0.61 lb/acre/yr applied to pre-redevelopment area excluding service land (projected for new impervious cover)		2.46		0.61 lb/acre/yr applied to pre-redevelopment area excluding service land (projected for new impervious cover)		2.46	</

Design Area A (and Cover Issues)

A Sails

B Sails

C Sails

D Sails

Totals

Land Cover %

Non-Developed (Forest)

0

0

0

0

0.00

Developed (Forest)

0

0

0

0

0.00

Wetland (Forest)

0

0

0

0

0.00

Wetland (Forest)

0

0

0

0

0.00

Wetland (Forest)

0

0

0

0

0.00

Wetland (Forest)

0

0

0

0

0.00

Wetland (Forest)

0

0

0

0

0.00

Wetland (Forest)

0

0

0

0

0.00

Wetland (Forest)

0

0

0

0

0.00

Wetland (Forest)

0

0

0

0

0.00

Wetland (Forest)

0

0

0

0

0.00

Wetland (Forest)

0

0

0

0

0.00

Wetland (Forest)

0

0

0

0

0.00

Wetland (Forest)

0

0

0

0

0.00

Wetland (Forest)

0

0

0

0

0.00

Wetland (Forest)

0

0

0

0

0.00

Wetland (Forest)

0

0

0

0

0.00

Wetland (Forest)

0

0

0

0

0.00

Wetland (Forest)

0

0

0

0

0.00

Wetland (Forest)

0

0

0

0

0.00

Wetland (Forest)

0

0

0

0

0.00

Wetland (Forest)

0

0

0

0

0.00

Wetland (Forest)

0

0

0

0

0.00

Wetland (Forest)

0

0

0

0

0.00

Wetland (Forest)

0

0

0

0

0.00

Wetland (Forest)

0

0

0

0

0.00

Wetland (Forest)

0

0

0

0

0.00

Wetland (Forest)

0

0

0

0

0.00

Wetland (Forest)

0

0

0

0

0.00

Wetland (Forest)

0

0

0

0

0.00

Wetland (Forest)

0

0

0

0

0.00

Wetland (Forest)

0

0

0

0

0.00

Wetland (Forest)

0

0

0

0

0.00

Wetland (Forest)

0

0

0

0

0.00

Wetland (Forest)

0

0

0

0

0.00

Wetland (Forest)

0

0

0

0

0.00

Wetland (Forest)

0

0

0

0

0.00

Wetland (Forest)

0

0

0

0

0.00

Wetland (Forest)

0

0

0

0

0.00

Wetland (Forest)

0

0

0

0

0.00

Wetland (Forest)

0

0

0

0

0.00

Wetland (Forest)

0

0

0

0

0.00

Wetland (Forest)

0

0

0

0

0.00

Wetland (Forest)

0

0

0

0

0.00

Wetland (Forest)

0

0

0

0

0.00

Wetland (Forest)

0

0

0

0

0.00

Wetland (Forest)

0

0

0

0

0.00

Wetland (Forest)

0

0

0

0

0.00

Wetland (Forest)

0

0

0

0

0.00

Wetland (Forest)

0

0

0

0

0.00

Wetland (Forest)

0

0

0

0

0.00

Wetland (Forest)

0

0

0

0

0.00

Wetland (Forest)

0

0

0

0

0.00

Wetland (Forest)

0

0

0

0

0.00

Wetland (Forest)

0

0

0

0

0.00

Wetland (Forest)

0

0

0

0

0.00

Wetland (Forest)

0

0

0

0

0.00

Wetland (Forest)

0

0

0

0

0.00

Wetland (Forest)

0

0

0

0

0.00

Wetland (Forest)

0

0

0

0

0.00

Wetland (Forest)

0

0

0

0

0.00

Wetland (Forest)

0

0

0

0

0.00

Wetland (Forest)

0

0

0

0

0.00

Wetland (Forest)

0

0

0

0

0.00

Wetland (Forest)

0

0

0

0

0.00

Wetland (Forest)

0

0

0

0

0.00

Wetland (Forest)

0

0

0

0

0.00

Wetland (Forest)

0

0

0

0

0.00

Wetland (Forest)

0

0

0

0

0.00

Wetland (Forest)

0

0

0

0

0.00

Wetland (Forest)

0

0

0

0

0.00

Wetland (Forest)

0

0

0

0

0.00

Wetland (Forest)

0

0

0

0

0.00

Wetland (Forest)

0

0

0

0

0.00

Wetland (Forest)

0

0

0

0

0.00

Wetland (Forest)

0

0

0

0

0.00

Wetland (Forest)

0

0

0

0

0.00

Wetland (Forest)

0

0

0

0

0.00

Wetland (Forest)

0

0

0

0

0.00

Wetland (Forest)

0

0

0

0

0.00

Wetland (Forest)

0

0

0

0

0.00

Wetland (Forest)

0

0

0

0

0.00

Wetland (Forest)

0

0

0

0

0.00

Wetland (Forest)

0

0

0

0

0.00

Wetland (Forest)

0

0

0

0

0.00

Wetland (Forest)

0

0

0

0

0.00

Wetland (Forest)

0

0

0

0

0.00

Wetland (Forest)

0

0

0

0

0.00

Wetland (Forest)

0

0

0

0

0.00

Wetland (Forest)

0

0

0

0

0.00

Wetland (Forest)

0

0

0

0

0.00

Wetland (Forest)

0

0

0

0

0.00

Wetland (Forest)

0

0

0

0

0.00

Wetland (Forest)

0

0

0

0

0.00

Wetland (Forest)

0

0

0

0

0.00

Wetland (Forest)

0

0

0

0

0.00

Wetland (Forest)

0

0

0

0

0.00

Wetland (Forest)

0

0

0

0

0.00

Wetland (Forest)

0

0

0

0

0.00

Wetland (Forest)

0

0

0

0

0.00

Wetland (Forest)

0

0

0

0

0.00

Wetland (Forest)

0

0

0

0

0.00

Wetland (Forest)

0

0

0

0

0.00

Wetland (Forest)

0

0

0

0

0.00

Wetland (Forest)

0

0

0

0

0.00

Wetland (Forest)

0

0

0

0

0.00

Wetland (Forest)

0

0

0

0

0.00

Wetland (Forest)

0

0

0

0

0.00

Wetland (Forest)

0

0

0

0

0.00

Wetland (Forest)

0

0

0

0

0.00

Wetland (Forest)

0

0

0

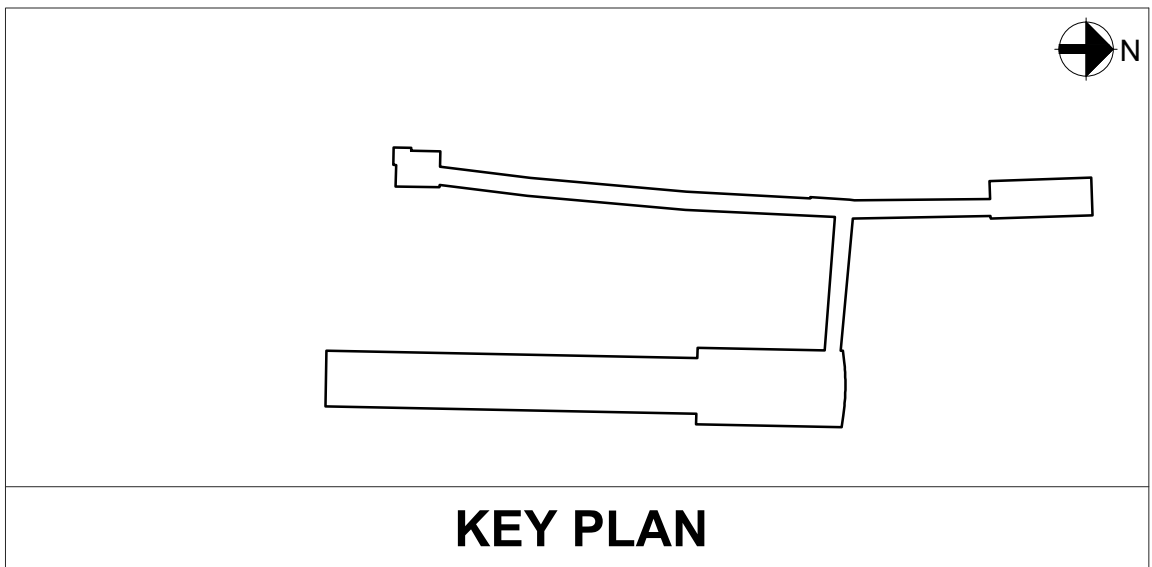
0</

Channel Area & Loss Coeff. (BPI)					A Coef.	B Coef.	C Coef.	D Coef.	Total	Loss Coef. (BPI)
HardOpen Sump (Secs)									0.00	0.00
Impervious Turf (Secs)									0.00	0.00
Impervious Court (Secs)								0.85	0.85	0.85
								Total	0.85	

Stormwater Best Management Practices (RR + Runoff Reduction)

Practice	Runoff Reduction Credit (%)	Managed Turf Credit Area (Acres)	Impervious Court Credit Area (Acres)	Volume from Vegetative Practice (Kcfs)	Runoff Reduction (%)	Remaining Volume (Kcfs)			
1. Vegetated Roof (RR)									
1.A. Vegetated Roof #1 (Open #1)	45				0	0			
1.B. Vegetated Roof #2 (Open #2)	60				0	0			
2. Rooftop Disconnection (RR)									
2.A. Simple Disconnection from All Sinks (Open #1)	50				0	0			
2.B. Simple Disconnection from C/S Sinks (Open #1)	25				0	0			
2.C. 1% to 3% Area of Total Roof Area per specification (using C/S Sinks) (Open #1)	50				0	0			
2.D. 1% to 3% Area of Total Roof Area per specification (using C/S Sinks) (Open #1)	50				0	0			
2.E. 1% to 3% Area of Total Roof Area per specification (using C/S Sinks) (Open #1)	50				0	0			
2.F. 1% to 3% Area of Total Roof Area per specification (using C/S Sinks) (Open #1)	50				0	0			
2.G. 1% to 3% Area of Total Roof Area per specification (using C/S Sinks) (Open #1)	50				0	0			
2.H. 1% to 3% Area of Total Roof Area per specification (using C/S Sinks) (Open #1)	50				0	0			
2.I. 1% to 3% Area of Total Roof Area per specification (using C/S Sinks) (Open #1)	50				0	0			
2.J. 1% to 3% Area of Total Roof Area per specification (using C/S Sinks) (Open #1)	50				0	0			
2.K. 1% to 3% Area of Total Roof Area per specification (using C/S Sinks) (Open #1)	50				0	0			
2.L. 1% to 3% Area of Total Roof Area per specification (using C/S Sinks) (Open #1)	50				0	0			
2.M. 1% to 3% Area of Total Roof Area per specification (using C/S Sinks) (Open #1)	50				0	0			
2.N. 1% to 3% Area of Total Roof Area per specification (using C/S Sinks) (Open #1)	50				0	0			
2.O. 1% to 3% Area of Total Roof Area per specification (using C/S Sinks) (Open #1)	50				0	0			
2.P. 1% to 3% Area of Total Roof Area per specification (using C/S Sinks) (Open #1)	50				0	0			
2.Q. 1% to 3% Area of Total Roof Area per specification (using C/S Sinks) (Open #1)	50				0	0			
2.R. 1% to 3% Area of Total Roof Area per specification (using C/S Sinks) (Open #1)	50				0	0			
2.S. 1% to 3% Area of Total Roof Area per specification (using C/S Sinks) (Open #1)	50				0	0			
2.T. 1% to 3% Area of Total Roof Area per specification (using C/S Sinks) (Open #1)	50				0	0			
2.U. 1% to 3% Area of Total Roof Area per specification (using C/S Sinks) (Open #1)	50				0	0			
2.V. 1% to 3% Area of Total Roof Area per specification (using C/S Sinks) (Open #1)	50				0	0			
2.W. 1% to 3% Area of Total Roof Area per specification (using C/S Sinks) (Open #1)	50				0	0			
2.X. 1% to 3% Area of Total Roof Area per specification (using C/S Sinks) (Open #1)	50				0	0			
2.Y. 1% to 3% Area of Total Roof Area per specification (using C/S Sinks) (Open #1)	50				0	0			
2.Z. 1% to 3% Area of Total Roof Area per specification (using C/S Sinks) (Open #1)	50				0	0			
3. Permeable Paved Area (RR)									
3.A. Permeable Paved Area #1 (Open #1)	45				0	0			
3.B. Permeable Paved Area #2 (Open #1)	75				0	0			
4. Storm Drain (RR)									
4.A. Storm Drain #1 (Open #1)	25				0	0			
4.B. Storm Drain #2 (Open #1)	10				0	0			
4.C. Storm Drain with Curved Annotated Sinks (Open #1)	25				0	0			
4.D. Storm Drain with Curved Annotated Sinks (Open #1)	25				0	0			
4.E. Storm Drain with Curved Annotated Sinks (Open #1)	25				0	0			
4.F. Storm Drain with Curved Annotated Sinks (Open #1)	25				0	0			
4.G. Storm Drain with Curved Annotated Sinks (Open #1)	25				0	0			
4.H. Storm Drain with Curved Annotated Sinks (Open #1)	25				0	0			
4.I. Storm Drain with Curved Annotated Sinks (Open #1)	25				0	0			
4.J. Storm Drain with Curved Annotated Sinks (Open #1)	25				0	0			
4.K. Storm Drain with Curved Annotated Sinks (Open #1)	25				0	0			
4.L. Storm Drain with Curved Annotated Sinks (Open #1)	25				0	0			
4.M. Storm Drain with Curved Annotated Sinks (Open #1)	25				0	0			
4.N. Storm Drain with Curved Annotated Sinks (Open #1)	25				0	0			
4.O. Storm Drain with Curved Annotated Sinks (Open #1)	25				0	0			
4.P. Storm Drain with Curved Annotated Sinks (Open #1)	25				0	0			
4.Q. Storm Drain with Curved Annotated Sinks (Open #1)	25				0	0			
4.R. Storm Drain with Curved Annotated Sinks (Open #1)	25				0	0			
4.S. Storm Drain with Curved Annotated Sinks (Open #1)	25				0	0			
4.T. Storm Drain with Curved Annotated Sinks (Open #1)	25				0	0			
4.U. Storm Drain with Curved Annotated Sinks (Open #1)	25				0	0			
4.V. Storm Drain with Curved Annotated Sinks (Open #1)	25				0	0			
4.W. Storm Drain with Curved Annotated Sinks (Open #1)	25				0	0			
4.X. Storm Drain with Curved Annotated Sinks (Open #1)	25				0	0			
4.Y. Storm Drain with Curved Annotated Sinks (Open #1)	25				0	0			
4.Z. Storm Drain with Curved Annotated Sinks (Open #1)	25				0	0			
5. Stormwater Storage (RR)									
5.A. Stormwater Storage #1 (Open #1)	25				0	0			
5.B. Stormwater Storage #2 (Open #1)	10				0	0			
5.C. Stormwater Storage #3 (Open #1)	25				0	0			
5.D. Stormwater Storage #4 (Open #1)	10				0	0			
5.E. Stormwater Storage #5 (Open #1)	25				0	0			
5.F. Stormwater Storage #6 (Open #1)	10				0	0			
5.G. Stormwater Storage #7 (Open #1)	25				0	0			
5.H. Stormwater Storage #8 (Open #1)	10				0	0			
5.I. Stormwater Storage #9 (Open #1)	25				0	0			
5.J. Stormwater Storage #10 (Open #1)	10				0	0			
5.K. Stormwater Storage #11 (Open #1)	25				0	0			
5.L. Stormwater Storage #12 (Open #1)	10				0	0			
5.M. Stormwater Storage #13 (Open #1)	25				0	0			
5.N. Stormwater Storage #14 (Open #1)	10				0	0			
5.O. Stormwater Storage #15 (Open #1)	25				0	0			
5.P. Stormwater Storage #16 (Open #1)	10				0	0			
5.Q. Stormwater Storage #17 (Open #1)	25				0	0			
5.R. Stormwater Storage #18 (Open #1)	10				0	0			
5.S. Stormwater Storage #19 (Open #1)	25				0	0			
5.T. Stormwater Storage #20 (Open #1)	10				0	0			
5.U. Stormwater Storage #21 (Open #1)	25				0	0			
5.V. Stormwater Storage #22 (Open #1)	10				0	0			
5.W. Stormwater Storage #23 (Open #1)	25				0	0			
5.X. Stormwater Storage #24 (Open #1)	10				0	0			
5.Y. Stormwater Storage #25 (Open #1)	25				0	0			
5.Z. Stormwater Storage #26 (Open #1)	10				0	0			
6. Stormwater Detention (RR)									
6.A. Stormwater Detention #1 (Open #1)	25				0	0			
6.B. Stormwater Detention #2 (Open #1)	10				0	0			
6.C. Stormwater Detention #3 (Open #1)	25				0	0			
6.D. Stormwater Detention #4 (Open #1)	10				0	0			
6.E. Stormwater Detention #5 (Open #1)	25				0	0			
6.F. Stormwater Detention #6 (Open #1)	10				0	0			
6.G. Stormwater Detention #7 (Open #1)	25				0	0			
6.H. Stormwater Detention #8 (Open #1)	10				0	0			
6.I. Stormwater Detention #9 (Open #1)	25				0	0			
6.J. Stormwater Detention #10 (Open #1)	10				0	0			
6.K. Stormwater Detention #11 (Open #1)	25				0	0			
6.L. Stormwater Detention #12 (Open #1)	10				0	0			
6.M. Stormwater Detention #13 (Open #1)	25				0	0			
6.N. Stormwater Detention #14 (Open #1)	10				0	0			
6.O. Stormwater Detention #15 (Open #1)	25				0	0			
6.P. Stormwater Detention #16 (Open #1)	10				0	0			
6.Q. Stormwater Detention #17 (Open #1)	25				0	0			
6.R. Stormwater Detention #18 (Open #1)	10				0	0			
6.S. Stormwater Detention #19 (Open #1)	25				0	0			
6.T. Stormwater Detention #20 (Open #1)	10				0	0			
6.U. Stormwater Detention #21 (Open #1)	25				0	0			
6.V. Stormwater Detention #22 (Open #1)	10				0	0			
6.W. Stormwater Detention #23 (Open #1)	25				0	0			
6.X. Stormwater Detention #24 (Open #1)	10				0	0			
6.Y. Stormwater Detention #25 (Open #1)	25				0	0			
6.Z. Stormwater Detention #26 (Open #1)	10				0	0			
7. Stormwater Infiltration (RR)									
7.A. Stormwater Infiltration #1 (Open #1)	25				0	0			
7.B. Stormwater Infiltration #2 (Open #1)	10				0	0			
7.C. Stormwater Infiltration #3 (Open #1)	25				0	0			
7.D. Stormwater Infiltration #4 (Open #1)	10				0	0			
7.E. Stormwater Infiltration #5 (Open #1)	25				0	0			
7.F. Stormwater Infiltration #6 (Open #1)	10				0	0			
7.G. Stormwater Infiltration #7 (Open #1)	25				0	0			
7.H. Stormwater Infiltration #8 (Open #1)	10				0	0			
7.I. Stormwater Infiltration #9 (Open #1)	25				0	0			
7.J. Stormwater Infiltration #10 (Open #1)	10				0	0			
7.K. Stormwater Infiltration #11 (Open #1)	25				0	0			
7.L. Stormwater Infiltration #12 (Open #1)	10				0	0			
7.M. Stormwater Infiltration #13 (Open #1)	25				0	0			
7.N. Stormwater Infiltration #14 (Open #1)	10				0	0			
7.O. Stormwater Infiltration #15 (Open #1)	25				0	0			
7.P. Stormwater Infiltration #16 (Open #1)	10				0	0			
7.Q. Stormwater Infiltration #17 (Open #1)	25				0	0			
7.R. Stormwater Infiltration #18 (Open #1)	10				0	0			
7.S. Stormwater Infiltration #19 (Open #1)	25				0	0			
7.T. Stormwater Infiltration #20 (Open #1)	10				0	0			
7.U. Stormwater Infiltration #21 (Open #1)	25				0	0			
7.V. Stormwater Infiltration #22 (Open #1)	10				0	0			
7.W. Stormwater Infiltration #23 (Open #1)	25				0	0			
7.X. Stormwater Infiltration #24 (Open #1)	10				0	0			
7.Y. Stormwater Infiltration #25 (Open #1)	25				0	0			
7.Z. Stormwater Infiltration #26 (Open #1)	10				0	0			
8. Stormwater Detention (RR)									
8.A. Stormwater Detention #1 (Open #1)	25				0	0			
8.B. Stormwater Detention #2 (Open #1)	10				0	0			
8.C. Stormwater Detention #3 (Open #1)	25				0	0			
8.D. Stormwater Detention #4 (Open #1)	10				0	0			
8.E. Stormwater Detention #5 (Open #1)	25				0	0			
8.F. Stormwater Detention #6 (Open #1)	10				0	0			
8.G. Stormwater Detention #7 (Open #1)	25				0	0			
8.H. Stormwater Detention #8 (Open #1)	10				0	0			
8.I. Stormwater Detention #9 (Open #1)	25				0	0			
8.J. Stormwater Detention #10 (Open #1)	10				0	0			
8.K. Stormwater Detention #11 (Open #1)	25				0	0			
8.L. Stormwater Detention #12 (Open #1)	10				0	0			
8.M. Stormwater Detention #13 (Open #1)	25				0	0			
8.N. Stormwater Detention #14 (Open #1)	10				0	0			
8.O. Stormwater Detention #15 (Open #1)	25				0	0			
8.P. Stormwater Detention #16 (Open #1)	10				0	0			
8.Q. Stormwater Detention #17 (Open #1)	25				0	0			
8.R. Stormwater Detention #18 (Open #1)	10				0	0			
8.S. Stormwater Detention #19 (Open #1)	25				0	0			
8.T. Stormwater Detention #20 (Open #1)	10				0	0			
8.U. Stormwater Detention #21 (Open #1)	25				0	0			
8.V. Stormwater Detention #22 (Open #1)	10				0	0			
8.W. Stormwater Detention #23 (Open #1)	25				0	0			
8.X. Stormwater Detention #24 (Open #1)	10				0	0			
8.Y. Stormwater Detention #25 (Open #1)	25				0	0			
8.Z. Stormwater Detention #26 (Open #1)	10				0	0			
9. Stormwater Detention (RR)									
9.A. Stormwater Detention #1 (Open #1)	25				0	0			
9.B. Stormwater Detention #2 (Open #1)	10				0	0			
9.C. Stormwater Detention #3 (Open #1)	25				0	0			
9.D. Stormwater Detention #4 (Open #1)	10				0	0			
9.E. Stormwater Detention #5 (Open #1)	25				0	0			
9.F. Stormwater Detention #6 (Open #1)	10				0	0			
9.G. Stormwater Detention #7 (Open #1)	25				0	0			
9.H. Stormwater Detention #8 (Open #1)	10				0	0			
9.I. Stormwater Detention #9 (Open #1)	25				0	0			
9.J. Stormwater Detention #10 (Open #1)	10				0	0			
9.K. Stormwater Detention #11 (Open #1)	25				0	0			
9.L. Stormwater Detention #12 (Open #1)	10				0	0			
9.M. Stormwater Detention #13 (Open #1)	25				0	0			
9.N. Stormwater Detention #14 (Open #1)	10				0	0		</	

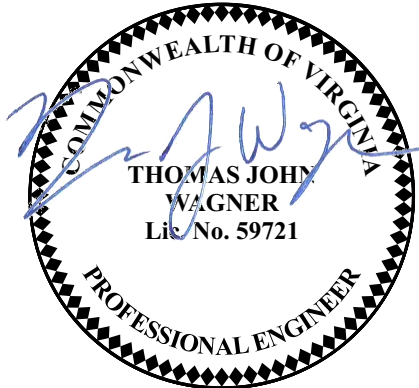
Total Phosphorus Available for Removal in D.A. # [N/A]					
Post Development Treatment Volume in D.A. # [N/A]					
-Select from dropdown lists-					
P P [N/A]	Phosphorus Removal Efficiency (%)	Phosphorus Load from Upstream Practices (%)	Untreated Phosphorus Load to Practice (%)	Phosphorus Removed by Practice (%)	Remaining Phosphorus Load (%)
1	0	0.00	0.00	0.00	0.00
2	0	0.00	0.00	0.00	0.00
3	0	0.00	0.00	0.00	0.00
4	0	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	None
6	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00
32	0.00	0.00	0.00	0.00	0.00
33	0.00	0.00	0.00	0.00	0.00
34	0.00	0.00	0.00	0.00	0.00
35	0.00	0.00	0.00	0.00	0.00
36	0.00	0.00	0.00	0.00	0.00
37	0.00	0.00	0.00	0.00	0.00
38	0.00	0.00	0.00	0.00	0.00
39	0.00	0.00	0.00	0.00	0.00
40	0.00	0.00	0.00	0.00	0.00
41	0.00	0.00	0.00	0.00	0.00
42	0.00	0.00	0.00	0.00	0.00
43	0.00	0.00	0.00	0.00	0.00
44	0.00	0.00	0.00	0.00	0.00
45	0.00	0.00	0.00	0.00	0.00
46	0.00	0.00	0.00	0.00	0.00
47	0.00	0.00	0.00	0.00	0.00
48	0.00	0.00	0.00	0.00	0.00
49	0.00	0.00	0.00	0.00	0.00
50	0.00	0.00	0.00	0.00	0.00
51	0.00	0.00	0.00	0.00	0.00
52	0.00	0.00	0.00	0.00	0.00
53	0.00	0.00	0.00	0.00	0.00
54	0.00	0.00	0.00	0.00	0.00
55	0.00	0.00	0.00	0.00	0.00
56	0.00	0.00	0.00	0.00	0.00
57	0.00	0.00	0.00	0.00	0.00
58	0.00	0.00	0.00	0.00	0.00
59	0.00	0.00	0.00	0.00	0.00
60	0.00	0.00	0.00	0.00	0.00
61	0.00	0.00	0.00	0.00	0.00
62	0.00	0.00	0.00	0.00	0.00
63	0.00	0.00	0.00	0.00	0.00
64	0.00	0.00	0.00	0.00	0.00
65	0.00	0.00	0.00	0.00	0.00
66	0.00	0.00	0.00	0.00	0.00
67	0.00	0.00	0.00	0.00	0.00
68	0.00	0.00	0.00	0.00	0.00
69	0.00	0.00	0.00	0.00	0.00
70	0.00	0.00	0.00	0.00	



PROFESSIONAL CERTIFICATION:
I HEREBY CERTIFY THAT THESE DOCUMENTS
WERE PREPARED OR APPROVED BY ME, AND
THAT I AM A FULLY LICENSED PROFESSIONAL
ENGINEER UNDER THE LAWS OF THE STATE
OF VIRGINIA.

LICENSE NO.
EXPIRATION DATE:

<h1 style="margin: 0;">APPROVED</h1>		
<h2 style="margin: 0;">SPECIAL USE PERMIT NO. _____</h2>		
<h3 style="margin: 0;">DEPARTMENT OF PLANNING & ZONING</h3>		
_____ DIRECTOR	_____ DATE	
<h3 style="margin: 0;">DEPARTMENT OF PLANNING & ENVIRONMENTAL SERVICES</h3>		
<h3 style="margin: 0;">SITE PLAN NO. _____</h3>		
_____ DIRECTOR	_____ DATE	
<div style="display: flex; justify-content: space-between;"><div style="width: 50%;">CHAIRMAN, PLANNING COMMISSION</div><div style="width: 50%;">DATE</div></div>		
DATE RECORDED _____		
_____ INSTRUMENT NO.	_____ DEED BOOK NO.	_____ PAGE NO.



POTOMAC YARD METRORAIL STATION
SOUTH PAVILION, BRIDGE SPAN, AND KNUCKLE EGRESS STAIR
FINAL SITE PLAN

WATER QUALITY CALCULATIONS - SHEET 1 OF 2

C-148

27 OF 60

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES
OFFICE OF THE CHIEF ENGINEER, INFRASTRUCTURE

SUBMITTED	DATE
APPROVED	DATE
DIRECTOR	DATE



ARUP

M NO.

M1316

CONTRACT NO.
FQ1614

SCALE:

DRAWING NO.

C-148

SHEET NO.

27 OF 60

Drainage Area C

Drainage Area A Land Cover (acres)	A Soils	B Soils	C Soils	D Soils	Totals	Land Cover Pct
Forest/Open Space (acres)				0.18	0.18	0.00
Managed Turf (acres)				0.18	0.18	0.25
Impervious Cover (acres)				0.06	0.06	0.95
Total				0.42	0.42	

CLEAR BMP AREAS

Total Phosphorus Available for Removal in D.A. C (lb/yr) 0.23
Post Development Treatment Volume in D.A. C (ft³) 370

Stormwater Best Management Practices (RR = Runoff Reduction)

Practice	Runoff Reduction Credit (%)	Managed Turf Credit Area (acres)	Impervious Cover Credit Area (acres)	Volume from Upstream Practice (ft³)	Runoff Reduction (ft³)	Remaining Runoff Volume (ft³)	Total BMP Treatment Volume (ft³)	Phosphorus Removal Efficiency (%)	Phosphorus Load from Upstream Practices (lb)	Untreated Phosphorus Load to Practice (lb)	Phosphorus Removed by Practice (lb)	Remaining Phosphorus Load (lb)	Downstream Practice to be Employed
1. Vegetated Roof (RR)													
1.a. Vegetated Roof #1 (Spec #1)	45			0	0	0	0	0	0.00	0.00	0.00	0.00	
1.b. Vegetated Roof #2 (Spec #1)	60			0	0	0	0	0	0.00	0.00	0.00	0.00	
2. Rooftop Disconnection (RR)													
2.a. Single Disconnection to A/B Soils (Spec #1)	50			0	0	0	0	0	0.00	0.00	0.00	0.00	
2.b. Single Disconnection to C/D Soils (Spec #1)	25			0	0	0	0	0	0.00	0.00	0.00	0.00	
2.c. To Soil Amended Filter Path as per specifications (pending C/D soils) (Spec #1)	50			0	0	0	0	0	0.00	0.00	0.00	0.00	
2.d. To Dry Well or French Drain #1, Micro-infiltration #1 (Spec #1)	50			0	0	0	25	0.00	0.00	0.00	0.00	0.00	
2.e. To Dry Well or French Drain #2, Micro-infiltration #2 (Spec #1)	50			0	0	0	25	0.00	0.00	0.00	0.00	0.00	
2.f. To Rain Garden #1, Micro-infiltration #1 (Spec #1)	40			0	0	0	25	0.00	0.00	0.00	0.00	0.00	
2.g. To Rain Garden #2, Micro-infiltration #2 (Spec #1)	80			0	0	0	50	0.00	0.00	0.00	0.00	0.00	
2.h. To Rainwater Harvesting (Spec #1)	0			0	0	0	0	0.00	0.00	0.00	0.00	0.00	
2.i. To Stormwater Planter, Urban Bioswallow (Spec #1, Appendix A)	40			0	0	0	25	0.00	0.00	0.00	0.00	0.00	
3. Permeable Pavement (RR)													
3.a. Permeable Pavement #1 (Spec #1)	45			0	0	0	25	0.00	0.00	0.00	0.00	0.00	
3.b. Permeable Pavement #2 (Spec #1)	75			0	0	0	25	0.00	0.00	0.00	0.00	0.00	
4. Grass Channel (RR)													
4.a. Grass Channel A/B Soils (Spec #1)	20			0	0	0	15	0.00	0.00	0.00	0.00	0.00	
4.b. Grass Channel C/D Soils (Spec #1)	10			0	0	0	15	0.00	0.00	0.00	0.00	0.00	
4.c. Grass Channel with Compacted Amended Soils as per spec (see Spec #1)	20			0	0	0	15	0.00	0.00	0.00	0.00	0.00	
5. Dry Swale (RR)													
5.a. Dry Swale #1 (Spec #1)	40			0	0	0	20	0.00	0.00	0.00	0.00	0.00	
5.b. Dry Swale #2 (Spec #1)	60			0	0	0	40	0.00	0.00	0.00	0.00	0.00	
6. Bioswallow (RR)													
6.a. Bioswallow #1 or Micro-Bioswallow #1 or Urban Bioswallow (Spec #1)	40			0	0	0	25	0.00	0.00	0.00	0.00	0.00	

6.b. Bioswallow #2 or Micro-Bioswallow #2 (Spec #1)	80	0.18	0.06	0	256	74	370	50	0.00	0.23	0.21	0.02	
7. Infiltration (RR)													
7.a. Infiltration #1 (Spec #1)	50			0	0	0	25	0.00	0.00	0.00	0.00	0.00	
7.b. Infiltration #2 (Spec #1)	90			0	0	0	25	0.00	0.00	0.00	0.00	0.00	
8. Extended Detention Pond (RR)													
8.a. 20'x40' (Spec #1)	0			0	0	0	0	15	0.00	0.00	0.00	0.00	
8.b. 10'x20' (Spec #1)	15			0	0	0	0	15	0.00	0.00	0.00	0.00	
9. Sheetflow to Filter/Open Space (RR)													
9.a. Sheetflow to Construction Area, 10'x5' (Spec #1)	75			0	0	0	0	5	0.00	0.00	0.00	0.00	
9.b. Sheetflow to Construction Area, 10'x5' (Spec #1)	50			0	0	0	0	5	0.00	0.00	0.00	0.00	
9.c. Sheetflow to Vegetated Filter Strip, A Soils or Compacted Amended B/C/D Soils (Spec #1 & 2)	50			0	0	0	0	0	0.00	0.00	0.00	0.00	

TOTAL IMPERVIOUS COVER TREATED (ac)	0.06	AREA CHECK: OK
TOTAL MANAGED TURF AREA TREATED (ac)	0.18	AREA CHECK: OK
TOTAL RUNOFF REDUCTION IN D.A. C (ft³)	296	
TOTAL PHOSPHORUS AVAILABLE FOR REMOVAL IN D.A. C (lb/yr)	0.23	
TOTAL PHOSPHORUS REMOVED WITH RUNOFF REDUCTION PRACTICES IN D.A. C (lb/yr)	0.21	
TOTAL PHOSPHORUS REMAINING AFTER APPLYING RUNOFF REDUCTION PRACTICES IN D.A. C (lb/yr)	0.02	
SEE WATER QUALITY COMPLIANCE TAB FOR SITE COMPLIANCE CALCULATIONS		

10. Wet Swale (see RR)													
10.a. Wet Swale #1 (Spec #1)	0			0	0	0	0	20	0.00	0.00	0.00	0.00	
10.b. Wet Swale #2 (Spec #1)	0			0	0	0	0	40	0.00	0.00	0.00	0.00	
11. Filtering Practices (see RR)													
11.a. Filtering Practice #1 (Spec #1)	0			0	0	0	0	60	0.00	0.00	0.00	0.00	
11.b. Filtering Practice #2 (Spec #1)	0			0	0	0	0	65	0.00	0.00	0.00	0.00	
12. Constructed Wetland (see RR)													
12.a. Constructed Wetland #1 (Spec #1)	0			0	0	0	0	50	0.00	0.00	0.00	0.00	
12.b. Constructed Wetland #2 (Spec #1)	0			0	0	0	0	75	0.00	0.00	0.00	0.00	
13. Wet Ponds (see RR)													
13.a. Wet Pond #1 (Spec #1)	0			0	0	0	0	50	0.00	0.00	0.00	0.00	
13.b. Wet Pond #2 (Crestal Pond) (Spec #1)	0			0	0	0	0	45	0.00	0.00	0.00	0.00	
13.c. Wet Pond #3 (Spec #1)	0			0	0	0	0	75	0.00	0.00	0.00	0.00	
13.d. Wet Pond #4 (Crestal Pond) (Spec #1)	0			0	0	0	0	65	0.00	0.00	0.00	0.00	

14. Manufactured Treatment Devices (see RR)													
14.a. Manufactured Treatment Device-Hydrocyclic	0			0	0	0	0	20	0.00	0.00	0.00	0.00	
14.b. Manufactured Treatment Device-Filtering	0			0	0	0	0	20	0.00	0.00	0.00	0.00	
14.c. Manufactured Treatment Device-Gravel	0			0	0	0	0	20	0.00	0.00	0.00	0.00	

TOTAL IMPERVIOUS COVER TREATED (ac)	0.06	AREA CHECK: OK
TOTAL MANAGED TURF AREA TREATED (ac)	0.18	AREA CHECK: OK
TOTAL PHOSPHORUS REMOVAL REQUIRED ON SITE (lb/yr)	3.94	
TOTAL PHOSPHORUS AVAILABLE FOR REMOVAL IN D.A. C (lb/yr)	0.23	
TOTAL PHOSPHORUS REMOVED WITHOUT RUNOFF REDUCTION PRACTICES IN D.A. C (lb/yr)	0.00	
TOTAL PHOSPHORUS REMOVED WITH RUNOFF REDUCTION PRACTICES IN D.A. C (lb/yr)	0.21	
TOTAL PHOSPHORUS LOAD REDUCTION ACHIEVED IN D.A. C (lb/yr)	0.21	
TOTAL PHOSPHORUS REMAINING AFTER APPLYING BMP LOAD REDUCTIONS IN D.A. C (lb/yr)	0.02	
SEE WATER QUALITY COMPLIANCE TAB FOR SITE COMPLIANCE CALCULATIONS		
NITROGEN REMOVED WITH RUNOFF REDUCTION PRACTICES IN D.A. C (lb/yr)	1.53	
NITROGEN REMOVED WITHOUT RUNOFF REDUCTION PRACTICES IN D.A. C (lb/yr)	1.53	
TOTAL NITROGEN REMOVED IN D.A. C (lb/yr)	1.53	

1. Vegetated Roof (RR)	0	0.00	0.00	0.00	0.00
2. Rooftop Disconnection (RR)	0	0.00	0.00	0.00	0.00
3. Permeable Pavement (RR)	25	0.00	0.00	0.00	0.00
4. Grass Channel (RR)	20	0.00	0.00	0.00	0.00
5. Dry Swale (RR)	25	0.00	0.00	0.00	0.00
6. Bioswallow (RR)	40	0.00	0.00	0.00	0.00

7. Infiltration (RR)	15	0.00	0.00	0.00	0.00
8. Extended Detention Pond (RR)	30	0.00	0.00	0.00	0.00
9. Sheetflow to Filter/Open Space (RR)	0	0.00	0.00	0.00	0.00
10. Wet Swale (see RR)	25	0.00	0.00	0.00	0.00
11. Filtering Practices (see RR)	30	0.00	0.00	0.00	0.00
12. Constructed Wetland (see RR)	25	0.00	0.00	0.00	0.00
13. Wet Ponds (see RR)	30	0.00	0.00	0.00	0.00
14. Manufactured BMP (see RR)	0	0.00	0.00	0.00	0.00

4. Grass Channel (ft)				
20	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00

STORMWATER NARRATIVE:

SUBJECT AREA:

THE SUBJECT AREA OF THIS APPLICATION IS THE SOUTH PAVILION ENTRANCE BUILDING AND BRIDGE SPAN FROM THE SOUTH PAVILION TO THE KNUCKLE PIER (INCLUDING THE KNUCKLE STAIRS) AS SHOWN ON SHEET G-05. THIS AREA IS A PORTION OF THE SITE THAT IS APPROVED UNDER THE DSUP 2018-0017 FINAL SITE PLAN. THE "WEST SIDE" OF THE SITE APPROVED UNDER DSUP 2018-0017 INCLUDES THE SOUTH PAVILION, NORTH PAVILION AND ASSOCIATED BRIDGE SPANS. THIS APPLICATION UPDATES THE DESIGN OF THE SOUTH PAVILION AND SOUTH BRIDGE SPAN.

THE COMPONENTS OF THE "WEST SIDE" OF THE EXISTING CSX RAIL TRACKS ARE WITHIN THE FOUR MILE RUN WATERSHED, AS THE AREA DRAINS TO AN EXISTING 72" STORM SEWER CONVEYING STORMWATER NORTH TO FOUR MILE RUN.

SHEETS C-11 AND C-12 INDICATE THE AREAS ASSOCIATED WITH THE "EAST SIDE" AND "WEST SIDE" AS IT PERTAINS TO THIS APPLICATION. THE DESCRIPTIONS OF EXISTING AND PROPOSED CONDITIONS BELOW ARE REPRESENTATIVE OF THE WEST SIDE ONLY.

EXISTING CONDITIONS

THE SUBJECT PROJECT AREA CONSISTS OF AN EXISTING PLAZA AT THE SOUTH END WHICH IS ADJACENT TO A MAINLY HARDCAPED PUBLIC PARK IMMEDIATELY NORTH. IMMEDIATELY NORTH OF THE PARK IS AN EXISTING STORMWATER POND.

THE AREA NORTH OF THE SUBJECT AREA IS A SECOND EXISTING STORMWATER POND AND PARKING LOT. THIS AREA IS DOCUMENTED IN THE DSUP 2018-0017 FINAL SITE PLAN, BUT IS PART OF THE STORMWATER MANAGEMENT SYSTEM FOR THE "WEST SIDE" AS DESCRIBED ABOVE AND THEREFORE INCLUDED WITHIN THE STORMWATER QUANTITY CALCULATIONS.

THESE AREAS ALL DRAIN TO AN EXISTING 72" STORM SEWER WHICH RUNS PARALLEL AND NORTH TO FOUR MILE RUN. THEREFORE, THE ANALYSIS POINT FOR THE ENTIRE WEST SIDE AREA, INCLUDING THE PORTION OF THE PROJECT NORTH OF THE KNUCKLE PIER, IS THE 72" STORM SEWER. UNDER EXISTING CONDITIONS, THE AREA IS ENCOMPASSED WITH DRAINAGE AREA E-2.

PROPOSED CONDITIONS

PROPOSED IMPROVEMENTS CONSIST OF A 2-STORY PAVILION AT THE EXISTING PLAZA AT GLEBE RD. WITH A PEDESTRIAN BRIDGE CONNECTION RUNNING NORTH TO THE KNUCKLE PIER. A PROPOSED STAIRWAY TO GRADE IS LOCATED AT THE KNUCKLE PIER.

NORTH OF THE KNUCKLE PIER IS A BRIDGE SPAN TO THE NORTH PAVILION LOCATED WITHIN THE EXISTING PARKING LOT AT THE NORTHERN EXTENT OF THE PROJECT ALONG THE WEST SIDE. THE NORTHERN BRIDGE SPAN AND NORTH PAVILION ARE DOCUMENTED WITHIN THE DSUP 2018-0017 FINAL SITE PLAN BUT ARE INCLUDED FOR REFERENCE WITHIN THIS APPLICATION AS IT IS PART OF THE SAME WATERSHED AND INCLUDES THE STORMWATER BASIN SERVING THE ENTIRE WEST SIDE.

STORMWATER QUALITY

STORMWATER QUALITY MANAGMENT FOR THE ENTIRE PROJECT, BOTH EAST AND WEST SIDES, IS PROVIDED ON THE EAST SIDE WITHIN THE INTEGRATED STORMWATER MANAGEMENT SYSTEM FOR THE POTOMAC YARDS PROJECT. IT INCLUDES THREE (3) BIORETENTION BASINS AND TWO (2) HYDRODYNAMIC SEPARATORS. STORMWATER QUALITY COMPLIANCE IS DOCUMENT AND APPROVED UNDER THE DSUP 2018-0017 FINAL SITE PLAN AND IS UNCHANGED WITH THIS APPLICATION. THE STORMWATER QUALITY CALCULATIONS ARE PROVIDED HEREIN FOR REFERENCE.

THE PROPOSED STORMWATER SYSTEM SERVING THE ENTIRE PROJECT, INCLUDING THE SUBJECT AREA OF THIS APPLICAITON, REDUCES PHOSPHORUS BY 0.27 LBS/YEAR.

STORMWATER QUANTITY:

EAST OF THE CSX TRACKS: STATION, AC SWITCHGEAR, AND ASSOCIATED SITE AREA

THE AREA EAST OF THE EXISTING CSX TRACKS DRAINS TO A SEPARATE WATERSHED, AND THEREFORE, STORMWATER QUANTITY CALCULATIONS FOR THE "EAST SIDE" OF THE TRACKS ARE NOT INCLUDED HEREIN AS THEY ARE APPROVED AS PART OF DSUP 2018-0017 FINAL SITE PLAN AND ARE NOT CHANGED WITH THIS APPLICATION. THE "EAST SIDE" AREA IS INDICATED ON SHEETS C-145 AND C-146.

WEST OF THE CSX TRACKS: NORTH PAVILION, SOUTH PAVILION, AND PEDESTRIAN BRIDGE

UNDER EXISTING CONDITIONS, DRAINAGE AREAS E-2 AND E-3 COMPRISE THE AREA CONTAINING THE NORTH PAVILION, SOUTH PAVILION, AND PEDESTRIAN BRIDGE. STORMWATER RUNOFF FROM THIS DRAINAGE AREA DISCHARGES TO THE EXISTING PONDS TO THE WEST OR THE EXISTING STORM SEWER ADJACENT TO THE EAST. SINCE THE PONDS DO NOT PROVIDE ATTENUATION AND DISCHARGE TO THE EXISTING STORM SEWER, THIS AREA IS ANALYZED AS ONE CONTINUOUS DRAINAGE AREA WITH A SINGLE POINT OF ANALYSIS, THE EXISTING SEWER.

UNDER PROPOSED CONDITIONS, STORMWATER FROM THE NORTH PAVILION AND NORTH BRIDGE SPAN WILL BE ATTENUATED USING AN UNDERGROUND DETENTION SYSTEM. PORTIONS OF THE AREA SURROUNDING THE PAVILION BRIDGE SPAN AND NORTH PAVILION BUILDING ARE NOT CAPTURED AND DETAINED. THESE AREAS ARE REPRESENTED AS P-2A AND P-2B, WHICH ARE DETAINED AND UNDETAINED, RESPECTIVELY. STORMMWATER FROM THE SOUTH PEDESTRIAN BRIDGE PAN AND SOUTH PAVILION WILL NOT BE CAPTURED AND DETAINED. THIS AREA IS REPRESENTED AS P-3.

DRAINAGE AREAS P-2A, P-2B AND P-3 ALL COMPRISE THE EQUIVALENT DRAINAGE AREA AS E-2 AND E-3 AND BOTH EXISTING AND PROPOSED CONDITIONS ARE ANALYZED TO THE EXITING STORM SEWER AS A POINT OF ANALYSIS.

BECAUSE THE POINT OF ANALYSIS IS A MAN-MADE CONVEYANCE, THE EXISTING ALLOWABLE PEAK RUNOFF RATES ARE CALCULATED BY A WATERSHED ANALYSIS, SINCE THE IMPROVEMENT FACTOR EQUATION DOES NOT APPLY (THIS EQUATION IS USED ON THE EAST SIDE ANALYSIS SINCE THE SITE DISCHARGES TO A NATURAL CONVEYANCE). THE REQUIREMENT FOR THE PROPOSED CONDITION IS TO REDUCE PEAK RUNOFF RATES FOR THE 2-YEAR AND 10-YEAR STORMS BELOW THAT OF EXISTING. ADDITIONALLY, SINCE THE EXISTING STORM SEWER DISCHARGES TO FOUR MILE RUN, THE PROPOSED 100 YEAR PEAK RUNOFF RATE SHALL BE REDUCED TO THAT BELOW EXISTING TO COMPLY WITH ARMY CORPS OF ENGINEERS JURISDICTIONAL REQUIREMENTS.

THE PROPOSED DETENTION SYSTEM PROVIDES ATTENUATION SUCH THAT THE PEAK RUNOFF RATES FROM THE COMBINATION OF P-2A, P-2B, AND P-3 ARE REDUCED BELOW EXISTING FOR THE 2-YEAR, 10-YEAR, AND 100-YEAR STORM EVENTS, THEREBY SATISFYING THE CITY OF ALEXANDRIA AND ARMY CORPS REQUIREMENTS.

EXISTING CONDITIONS - WEST SIDE STORMWATER QUANTITY CALCULATIONS

DRAINAGE AREA INPUT VALUES

Subbasin E2			
Soil/Surface Description	Area (acres)	Soil Group	CN
-	0.34	-	98.00
Composite Area & Weighted CN	0.78	-	87.85
Subbasin E3			
Soil/Surface Description	Area (acres)	Soil Group	CN
-	0.15	-	98.00
Composite Area & Weighted CN	0.61	-	84.43

PEAK RUNOFF RATES

2-YEAR STORM

Subbasin Runoff Summary

Subbasin ID	Total Precip in	Total Runoff in	Peak Runoff cfs	Weighted Curve Number
E2	3.20	1.98	2.13	87.850
E3	3.20	1.71	1.44	84.430

2-YEAR RAINFALL

Node ID	Element Type	Maximum Lateral Inflow cfs	Peak Inflow cfs
E2+3_OUT	OUTFALL	3.56	3.56

2-YEAR PEAK RUNOFF RATE

10-YEAR STORM

Subbasin ID	Total Precip in	Total Runoff in	Peak Runoff cfs	Weighted Curve Number
E2	5.20	3.84	4.03	87.850
E3	5.20	3.50	2.90	84.430

10-YEAR RAINFALL

Outfall Node ID	Flow Frequency (%)	Average Flow cfs	Peak Inflow cfs
E2+3_OUT	80.25	0.27	6.86

10-YEAR PEAK RUNOFF RATE

100-YEAR STORM

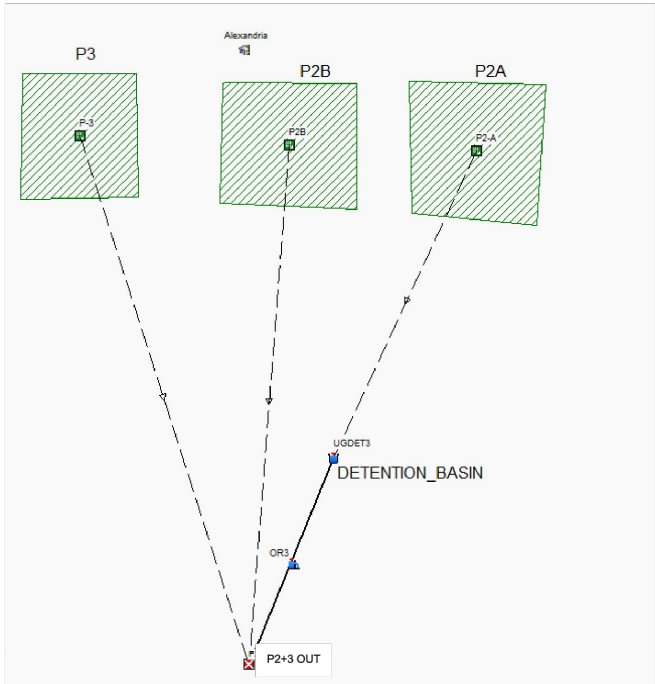
Subbasin ID	Total Precip in	Total Runoff in	Peak Runoff cfs	Weighted Curve Number
E2	8.20	6.75	6.87	87.850
E3	8.20	6.34	5.13	84.430

100-YEAR RAINFALL

Outfall Node ID	Flow Frequency (%)	Average Flow cfs	Peak Inflow cfs
E2+3_OUT	86.50	0.44	11.78

100-YEAR PEAK RUNOFF RATE

PROPOSED CONDITIONS - WEST SIDE STORMWATER QUANTITY CALCULATION

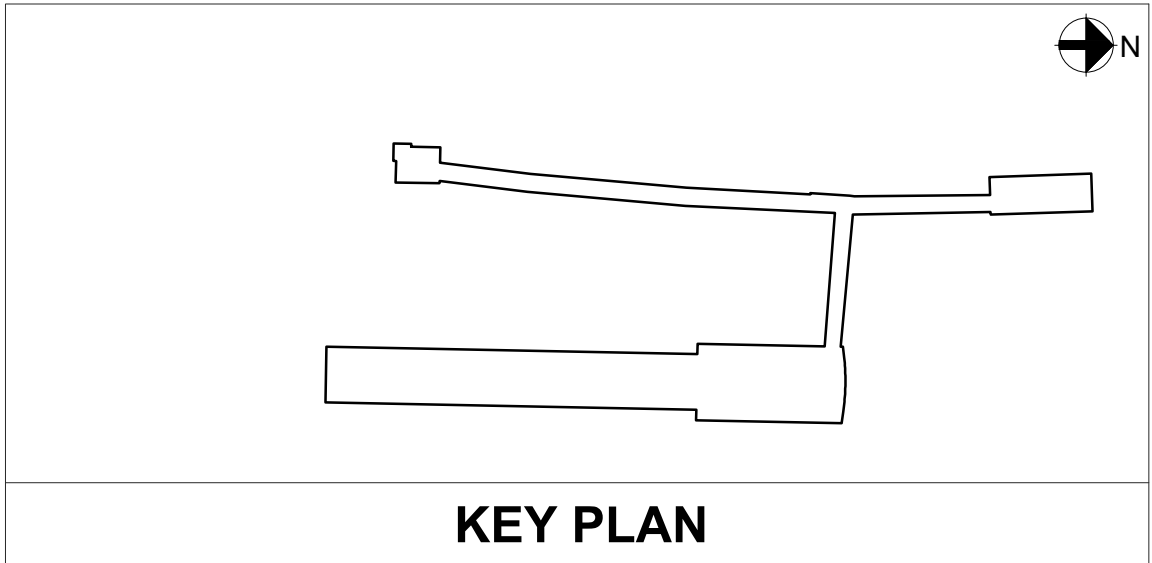


DRAINAGE AREA INPUT VALUES

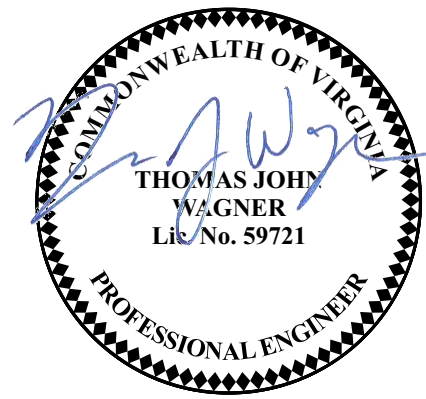
Subbasin P-2A_DET				
Soil/Surface Description	Area (acres)	Soil Group	CN	
-	0.27	-	98.00	
Composite Area & Weighted CN	0.27	-	98.00	
Subbasin P2B_UND				
Soil/Surface Description	Area (acres)	Soil Group	CN	
-	0.22	-	98.00	
Composite Area & Weighted CN	0.25	-	80.00	
Subbasin P-3				
Soil/Surface Description	Area (acres)	Soil Group	CN	
-	0.39	-	98.00	
Composite Area & Weighted CN	0.20	-	80.00	
Subbasin P-2A_DET+P2B_UND+P-3				
Soil/Surface Description	Area (acres)	Soil Group	CN	
-	0.59	-	91.90	

DETENTION BASIN INPUT VALUES:
UNDERGROUND GRAVEL PIT - 90' X 18' X 2.5' @ 40% VOIDS

	Depth (ft)	Area (ft²)	Volume (ft³)
1	0	650	0.000
2	1	650	650.000
3	2	650	1300.000
4	2.5	650	1625.000



WMATA LDP
COORDINATE
SYSTEM



PROFESSIONAL CERTIFICATION:
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF VIRGINIA.

LICENSE NO.
EXPIRATION DATE:

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. _____	

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES
OFFICE OF THE CHIEF ENGINEER, INFRASTRUCTURE

SUBMITTED _____	DATE _____
APPROVED _____	DATE _____
DIRECTOR _____	DATE _____



ARUP

POTOMAC YARD METRORAIL STATION
SOUTH PAVILION, BRIDGE SPAN, AND KNUCKLE EGRESS STAIR
FINAL SITE PLAN

QUANTITY CALCULATIONS - SHEET 1 OF 2

M NO. M1316	CONTRACT NO. FQ16146	SCALE: C-150	DRAWING NO. 29 OF 60	SHEET NO. 29 OF 60
----------------	-------------------------	-----------------	-------------------------	-----------------------

PROPOSED CONDITIONS STORMWATER QUANTITY CALCULATIONS, CONTINUED:

RUNOFF, STORAGE, AND PEAK RATES

2-YEAR STORM

Subbasin ID	Total Precip in	Total Runoff in	Peak Runoff cfs	Weighted Curve Number
P-2A_DET	3.20	2.97	0.98	98.000
P2B_UND	3.20	2.03	1.30	88.430
P-3	3.20	2.14	1.86	91.900

2-YEAR RAINFALL

Node ID	Element Type	Maximum Lateral Inflow	Peak Inflow
DET-PIT	STORAGE	0.96	0.96

Storage Node ID	Maximum Ponded Volume 1000 ft³	Maximum Ponded Volume (%)	Time of Max Ponded Volume days hh:mm	Average Ponded Volume 1000 ft³	Average Ponded Volume (%)	Maximum Storage Node Outflow cfs
DET-PIT	0.748	19	0 12:14	0.065	2	0.43

Outfall Node ID	Flow Frequency (%)	Average Flow cfs	Peak Inflow cfs
P2+3-OUT	88.89	0.15	3.50

2-YEAR PEAK RUNOFF

10-YEAR STORM

Subbasin ID	Total Precip in	Total Runoff in	Peak Runoff cfs	Weighted Curve Number
P-2A_DET	5.20	4.96	1.61	98.000
P2B_UND	5.20	3.80	2.44	88.430
P-3	5.20	4.27	3.28	91.900

10-YEAR RAINFALL

Node ID	Element Type	Maximum Lateral Inflow	Peak Inflow
DET-PIT		0.17	2.02

Storage Node ID	Maximum Ponded Volume 1000 ft³	Maximum Ponded Volume (%)	Time of Max Ponded Volume days hh:mm	Average Ponded Volume 1000 ft³	Average Ponded Volume (%)	Maximum Storage Node Outflow cfs
DET-PIT	1.315	34	0 12:14	0.107	3	0.59

Outfall Node ID	Flow Frequency (%)	Average Flow cfs	Peak Inflow cfs
P2+3-OUT	92.71	0.26	6.14

10-YEAR PEAK RUNOFF

RUNOFF, STORAGE, AND PEAK RATES

100-YEAR STORM

Subbasin ID	Total Precip in	Total Runoff in	Peak Runoff cfs	Weighted Curve Number
P-2A_DET	8.20	7.96	2.54	98.000
P2B_UND	8.20	6.82	4.14	88.430
P-3	8.20	7.83	5.39	91.900

100-YEAR RAINFALL

Node ID	Element Type	Maximum Lateral Inflow	Peak Inflow
P2+3-OUT	OUTFALL	9.35	10.00

Storage Node ID	Maximum Ponded Volume 1000 ft³	Maximum Ponded Volume (%)	Time of Max Ponded Volume days hh:mm	Average Ponded Volume 1000 ft³	Average Ponded Volume (%)	Maximum Storage Node Outflow cfs
DET-PIT	2.238	57	0 12:16	0.182	5	0.78

Outfall Node ID	Flow Frequency (%)	Average Flow cfs	Peak Inflow cfs
P2+3-OUT	95.00	0.42	10.00

100-YEAR PEAK RUNOFF

SUMMARY - EXISTING AND PROPOSED PEAK RUNOFF RATES

STORM	2-YR	10YR	100 YR
EXISTING	3.56	6.86	11.78
PROPOSED	3.50	6.14	10.00

9/2/2020 1:24 PM FILE PATH: C:\TEMP\JAS_TASK_62

			REFERENCE DRAWINGS		REVISIONS		
			NUMBER	DESCRIPTION	DATE	NUM	DESCRIPTION
DESIGNED	MSP	09/09/2020			10/07/2020	1	FSP #2
DRAWN	AW	09/09/2020					
CHECKED	JD	09/09/2020					
APPROVED	TW	09/09/2020					

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES
OFFICE OF THE CHIEF ENGINEER, INFRASTRUCTURE

SUBMITTED	DATE
APPROVED	DATE
DIRECTOR	DATE



ARUP

M NO.	CONTRACT NO.	SCALE:	DRAWING NO.	SHEET NO.
M1316	FQ16146		C-151	30 OF 60

POTOMAC YARD METRORAIL STATION
SOUTH PAVILION, BRIDGE SPAN, AND KNUCKLE EGRESS STAIR
FINAL SITE PLAN

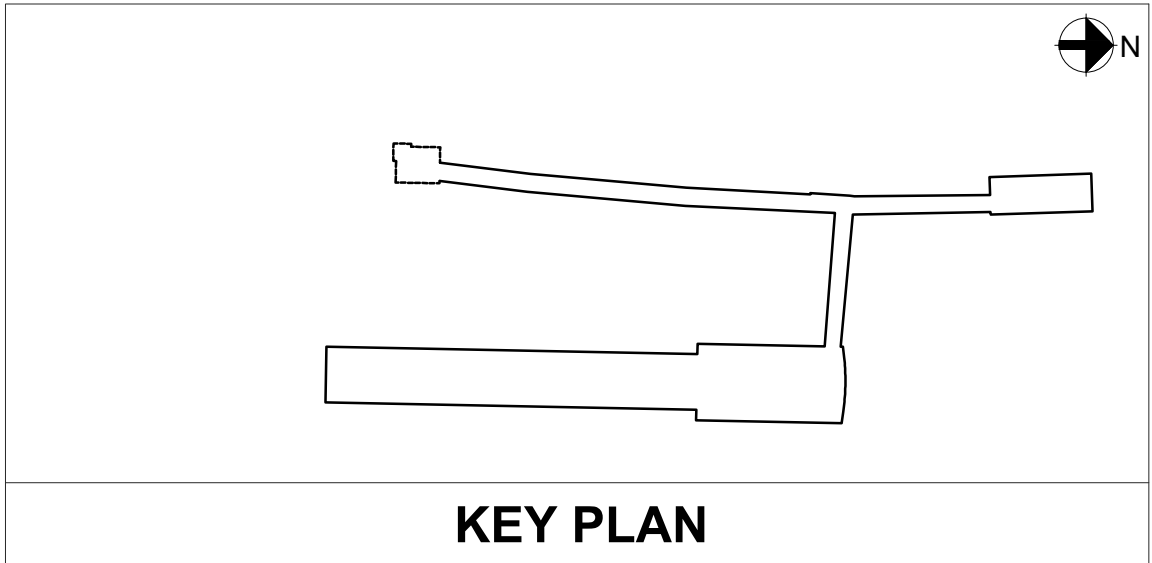
QUANTITY CALCULATIONS - SHEET 2 OF 2

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. _____	



PROFESSIONAL CERTIFICATION:
I HEREBY CERTIFY THAT THESE DOCUMENTS
WERE PREPARED OR APPROVED BY ME, AND
THAT I AM A FULLY LICENSED PROFESSIONAL
ENGINEER UNDER THE LAWS OF THE STATE
OF VIRGINIA.

LICENSE NO.
EXPIRATION DATE:



9/17/2019 3:59 PM
FILE PATH: C:\TEMP\UAS_TASK_62

- NOTES:
- REFER TO DRAWING G-003 FOR LEGEND AND ABBREVIATIONS.
 - PLANTATION PIPELINE LOCATION IN SURVEY DOES NOT ALIGN WITH THE LOCATION OF THE PIPELINE PER RECORD DRAWING PROVIDED BY KINDER MORGAN. THE CONTRACTOR SHALL VERIFY LOCATION OF PLANTATION PIPELINE PRIOR TO CONSTRUCTION.
 - GROUND ELECTRICAL OUTLETS AT THE GLEBE PLAZA SHALL BE RECONNECTED TO A POWER SOURCE.

ARCHAEOLOGY NOTES:

- 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.
- THE APPLICANT SHALL CALL ALEXANDRIA ARCHAEOLOGY IMMEDIATELY (703-838-4399) IF ANY BURIED STRUCTURAL REMAINS (WALL FOUNDATIONS, WELLS, PRIVIES, CISTERNS, ETC.) OR CONCENTRATIONS OF ARTIFACTS ARE DISCOVERED DURING DEVELOPMENT. WORK MUST CEASE IN THE AREA OF THE DISCOVERY UNTIL A CITY ARCHAEOLOGIST COMES TO THE SITE AND RECORDS THE FINDS.
- THE 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.

REFERENCE DRAWINGS			REVISIONS		
DESIGNED	MSP	09/09/2020	NUMBER	DESCRIPTION	DATE
DRAWN	AW	09/09/2020			
CHECKED	JD	09/09/2020			
APPROVED	TW	09/09/2020			

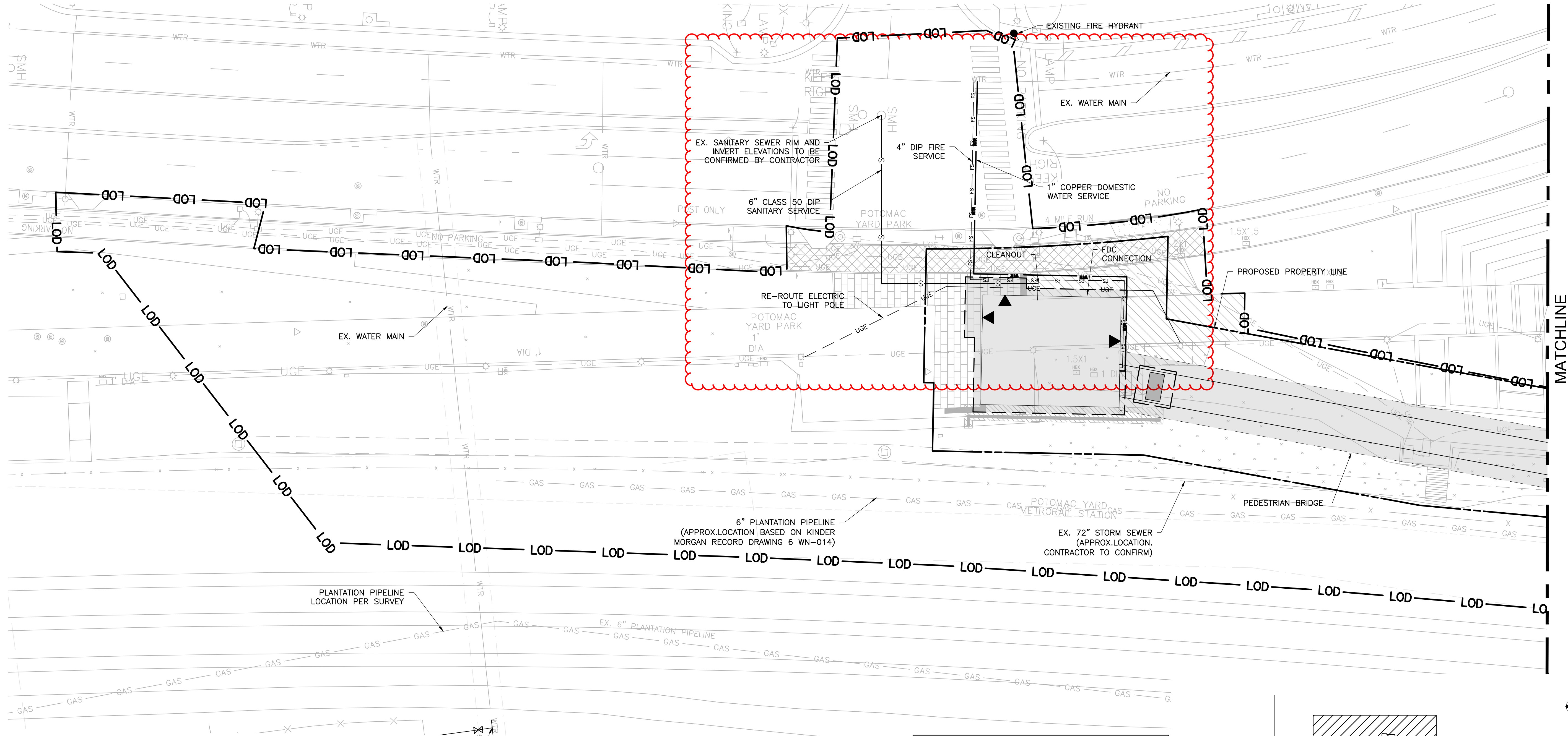
WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES
OFFICE OF THE CHIEF ENGINEER, INFRASTRUCTURE

SUBMITTED _____ DATE _____
APPROVED _____ DATE _____
DIRECTOR _____



POTOMAC YARD METRORAIL STATION
SOUTH PAVILION, BRIDGE SPAN, AND KNUCKLE EGRESS STAIR
FINAL SITE PLAN
UTILITY PLAN - SHEET 1 OF 2

M NO.	CONTRACT NO.	SCALE:	DRAWING NO.	SHEET NO.
M1316	FQ16146	1" = 20'	C-161	31 OF 60



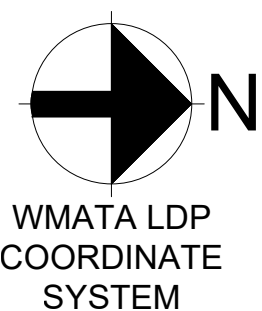
APPROVED
SPECIAL USE PERMIT NO. _____
DEPARTMENT OF PLANNING & ZONING

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. _____

0 20 40 60

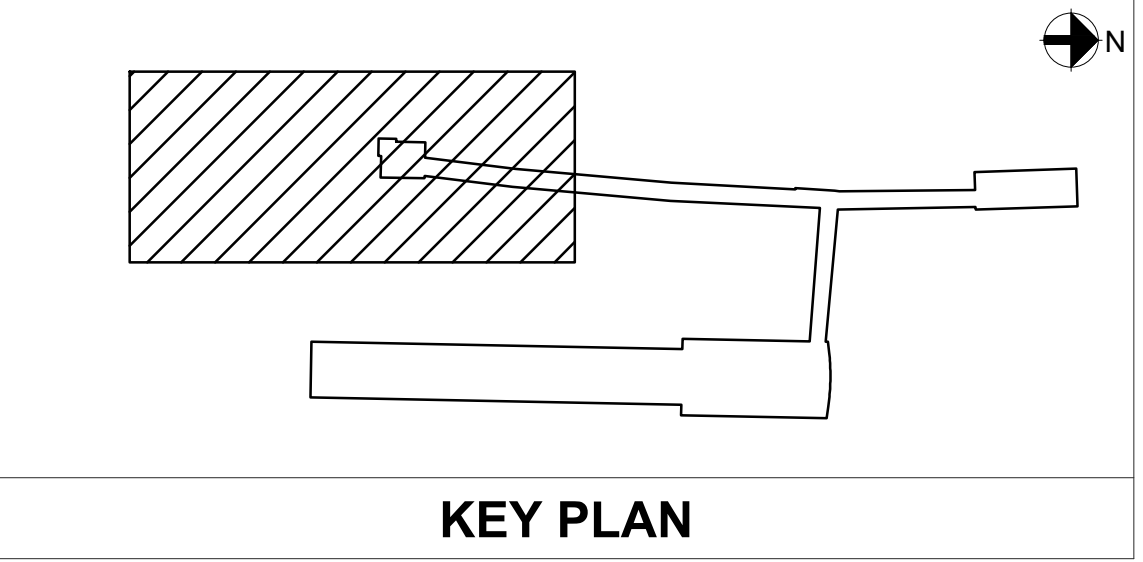


WMATA LDP
COORDINATE
SYSTEM



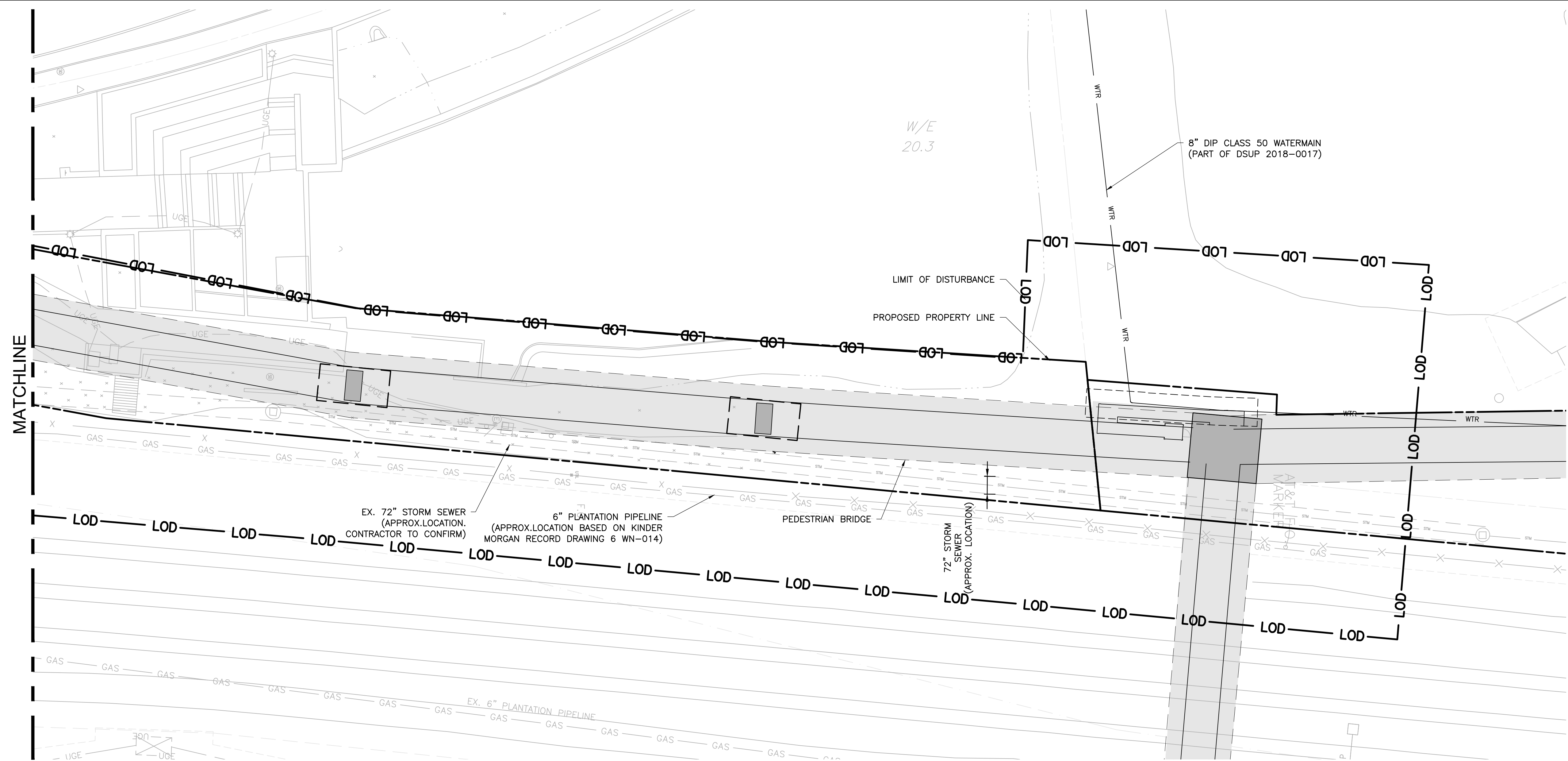
PROFESSIONAL CERTIFICATION:
I HEREBY CERTIFY THAT THESE DOCUMENTS
WERE PREPARED OR APPROVED BY ME, AND
THAT I AM A FULLY LICENSED PROFESSIONAL
ENGINEER UNDER THE LAWS OF THE STATE
OF VIRGINIA.

LICENSE NO. _____
EXPIRATION DATE: _____



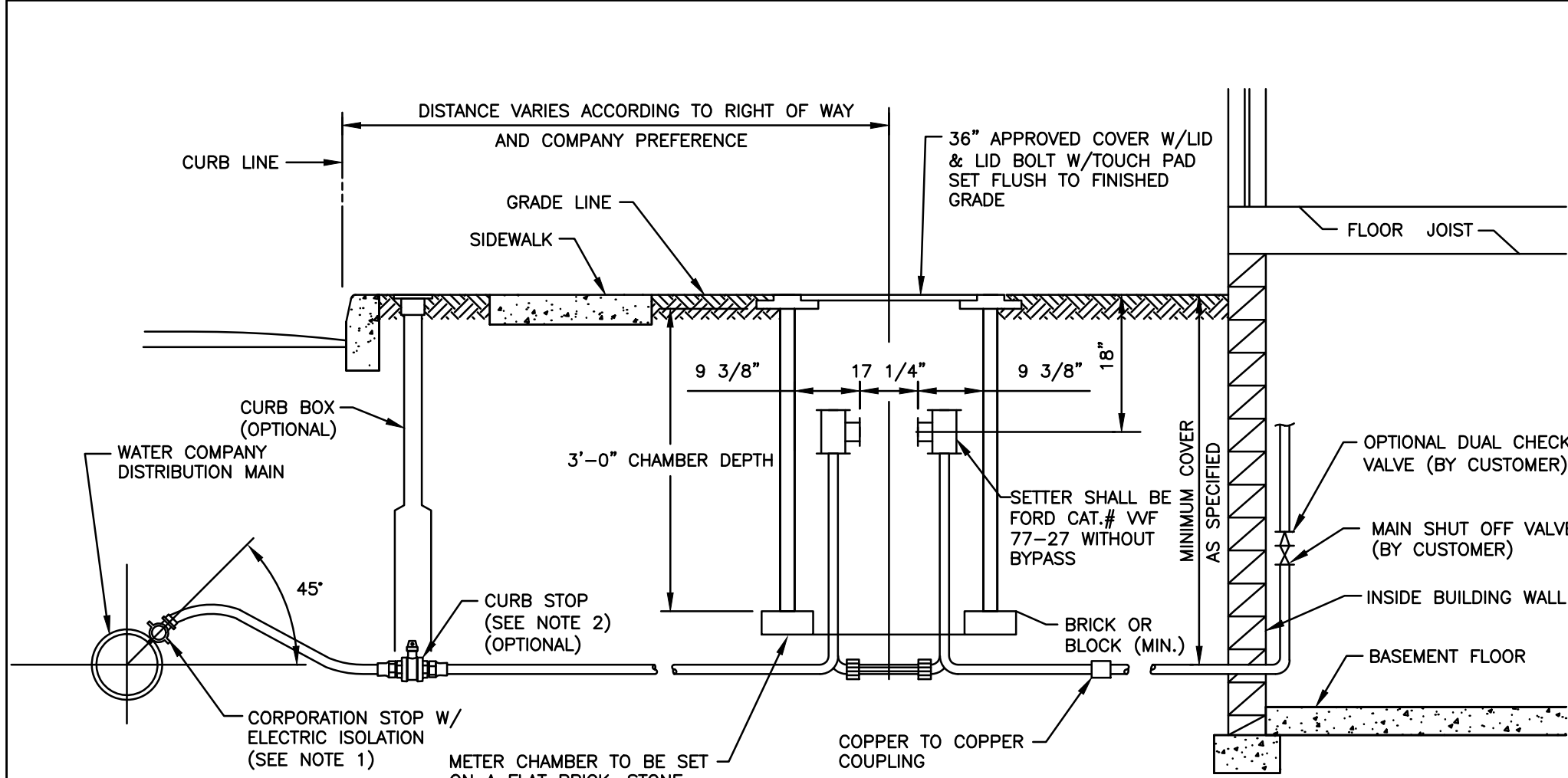
KEY PLAN

MATCHLINE



<p align="center">POTOMAC YARD METRORAIL STATION SOUTH PAVILION, BRIDGE SPAN, AND KNUCKLE EGRESS STAIR FINAL SITE PLAN UTILITY PLAN - SHEET 2 OF 2</p>				
M NO.	CONTRACT NO.	SCALE:	DRAWING NO.	SHEET NO.
M1316	FQ16146	1" = 20'	C-162	32 OF 60

9/17/2019 4:58 PM
FILE PATH: C:\TEMP\JAS_TASK_62



NOTES:

- CORPORATION STOP WITH STRAIGHT COUPLING NUT AND SERVICE SADDLE.
- MATERIAL UTILIZED SHOULD BE TYPE "K" (OR "L" COPPER IF PERMITTED) OR WITH A COPPER TO COPPER CURB STOP, BOTH ENDS COMPRESSION FITTING.
- SERVICE LINE AND METER CHAMBER, OWNERSHIP VARIES BY LOCAL TARIFF.
- CURB STOP IS OPTIONAL, BASED ON PROXIMITY OF METER CHAMBER TO STREET OR REGULATORY REQUIREMENT.
- POLYWRAP COPPER SERVICE FROM MAIN TO CURB STOP IF SOIL IS CORROSSIVE.

01 WATER SERVICE AND METER PIT
CoA STANDARD

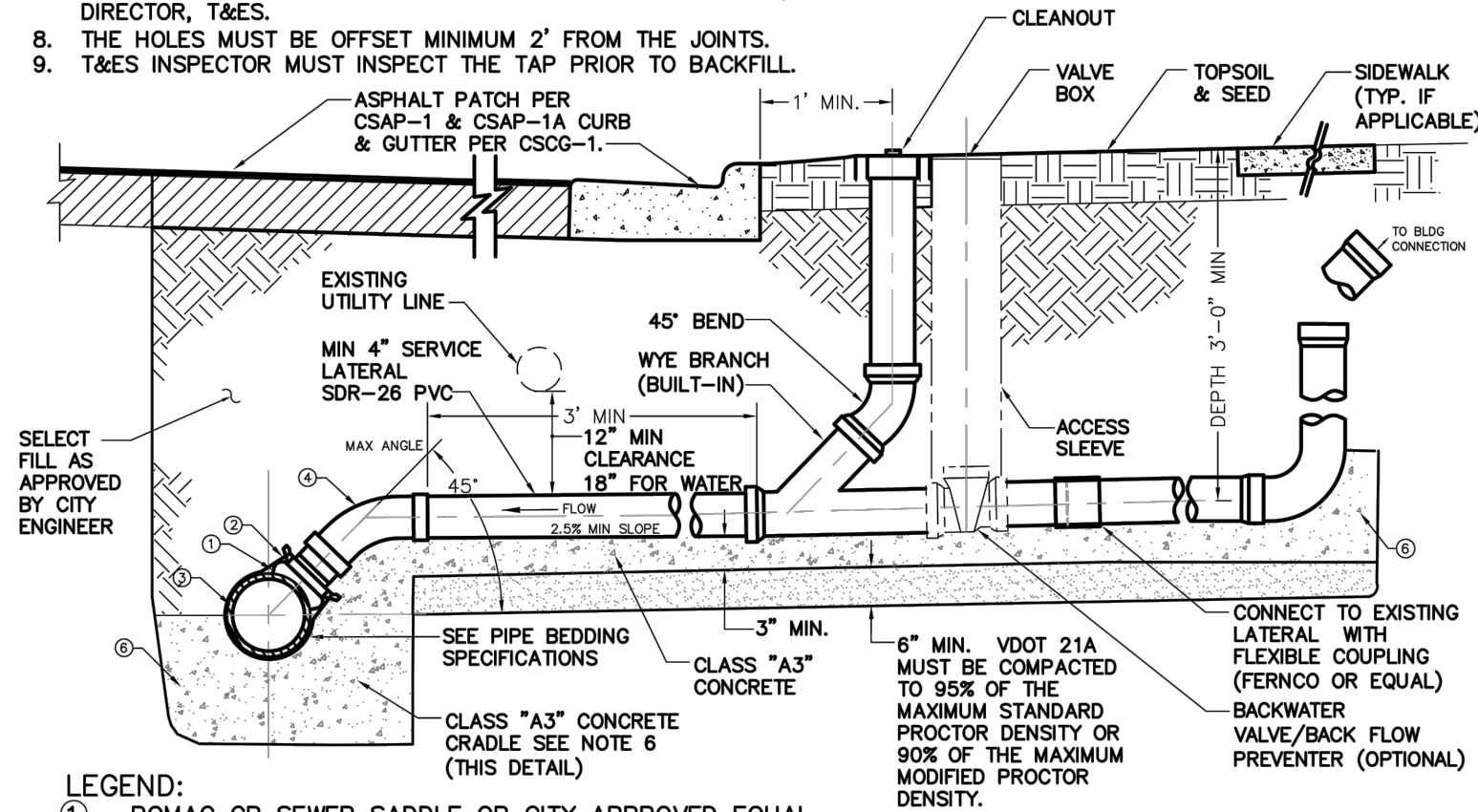
SCALE: NTS

NOTES:

- CONNECTION TO A PUBLIC SANITARY SEWER SHALL REQUIRE A SEWER LATERAL CONNECTION PERMIT FROM THE DEPARTMENT OF TRANSPORTATION AND ENVIRONMENTAL SERVICES (T&ES). IF THE SANITARY SEWER IS LOCATED WITHIN THE PUBLIC RIGHT OF WAY AN EXCAVATION PERMIT SHALL ALSO BE REQUIRED.
- THE CONNECTION SHALL BE MADE PER THE RECOMMENDATIONS OF THE MANUFACTURER, AND IN THE PRESENCE OR WITH THE APPROVAL OF T&ES, CONSTRUCTION MANAGEMENT AND INSPECTION (CM&I) INSPECTOR.
- THE SADDLE SHALL PROPERLY MATCH THE SANITARY SEWER MAIN PIPE.
- THE CUT ON THE EXISTING PIPE MUST BE NO LARGER THAN NECESSARY TO INSTALL SADDLE.
- ROUGH EDGES LEFT BY SAW CUT OR CORING SHALL BE SMOOTHED WITH A FILE OR SAND PAPER DEPENDING UPON THE MATERIAL OF THE SANITARY SEWER PIPE.
- OVER CUTTING THE HOLE, DAMAGING THE SEWER MAIN, OR NEW SANITARY SEWER WILL WARRANT REPLACEMENT OF THE DAMAGED MAIN LINE SEGMENT AND INSTALLATION OF A FACTORY MANUFACTURED WYE OR TEE CONNECTION PER DETAIL CSLC-1B.
- THE SADDLE CONNECTION MAY BE REPLACED WITH COMPRESSION SLEEVE CONNECTION WITH APPROVAL OF CITY ENGINEER AND/OR DIRECTOR, T&ES.
- THE HOLES MUST BE OFFSET MINIMUM 2' FROM THE JOINTS.
- T&ES INSPECTOR MUST INSPECT THE TAP PRIOR TO BACKFILL.

Pipe Type	Pipe Cutting Method	Connection Type	Applicable Detail
Transite	Transite Pipe Cutter	Romac CB Sewer Saddle or approved equal	CSLC-1A
Concrete	Coring	Romac CB Sewer Saddle or approved equal	CSLC-1A
Cast Iron/Ductile Iron	Tapping Machine	Romac CB Sewer Saddle or approved equal	CSLC-1A
Vitrified Clay Pipe (VCP)	Saw Cut	Manufactured Y or T connection	CSLC-1B
Brick		Special design	
Non-circular pipe			
Other Material			

CUT IN CONNECTION FOR EXISTING
SANITARY SEWER PIPE



LEGEND:

- ROMAC CB SEWER SADDLE OR CITY APPROVED EQUAL
- ROMAC CB STRAPS 304 STAINLESS STEEL
- EXISTING SEWER MAIN
- 45° ELBOW/ BEND
- PVC LATERAL SDR 26 OR SCHEDULE 40
- CLASS "A3" CONCRETE CRADLE TO JOINT

CONCRETE CRADLE TO BE USED IF COVER IS LESS THAN 5 FEET OR MORE THAN 12 FEET. CRADLE TO BE POURED TO SPRING LINE OF PIPE AND TO SUPPORT THE SANITARY LATERAL. IF COVER IS 2 FEET OR LESS, PIPE IS TO BE ENCASED IN CONFORMANCE WITH CSSE-1.

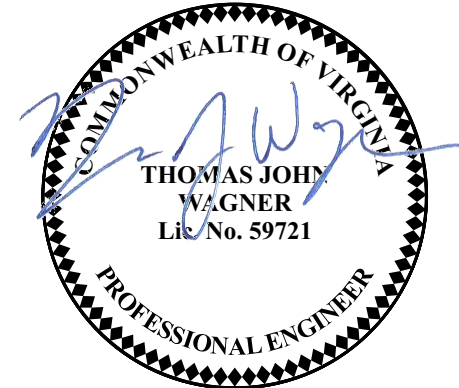
02 LATERAL CONNECTION DETAIL
CoA STANDARD

SCALE: NTS

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. _____

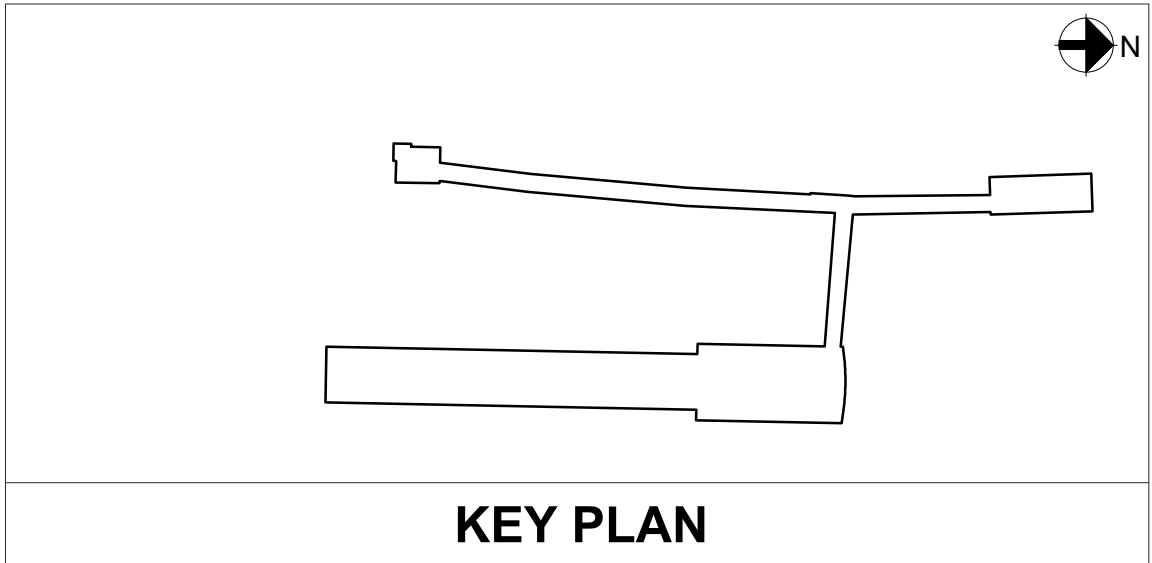


WMATA LDP
COORDINATE
SYSTEM



PROFESSIONAL CERTIFICATION:
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF VIRGINIA.

LICENSE NO.
EXPIRATION DATE:



KEY PLAN

			REFERENCE DRAWINGS		REVISIONS		
			NUMBER	DESCRIPTION	DATE	NUM	DESCRIPTION
DESIGNED	MSP	09/09/2020			10/07/2020	1	FSP #2
DRAWN	AW	09/09/2020					
CHECKED	JD	09/09/2020					
APPROVED	TW	09/09/2020					

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES
OFFICE OF THE CHIEF ENGINEER, INFRASTRUCTURE

SUBMITTED	DATE
APPROVED	DATE
DIRECTOR	DATE

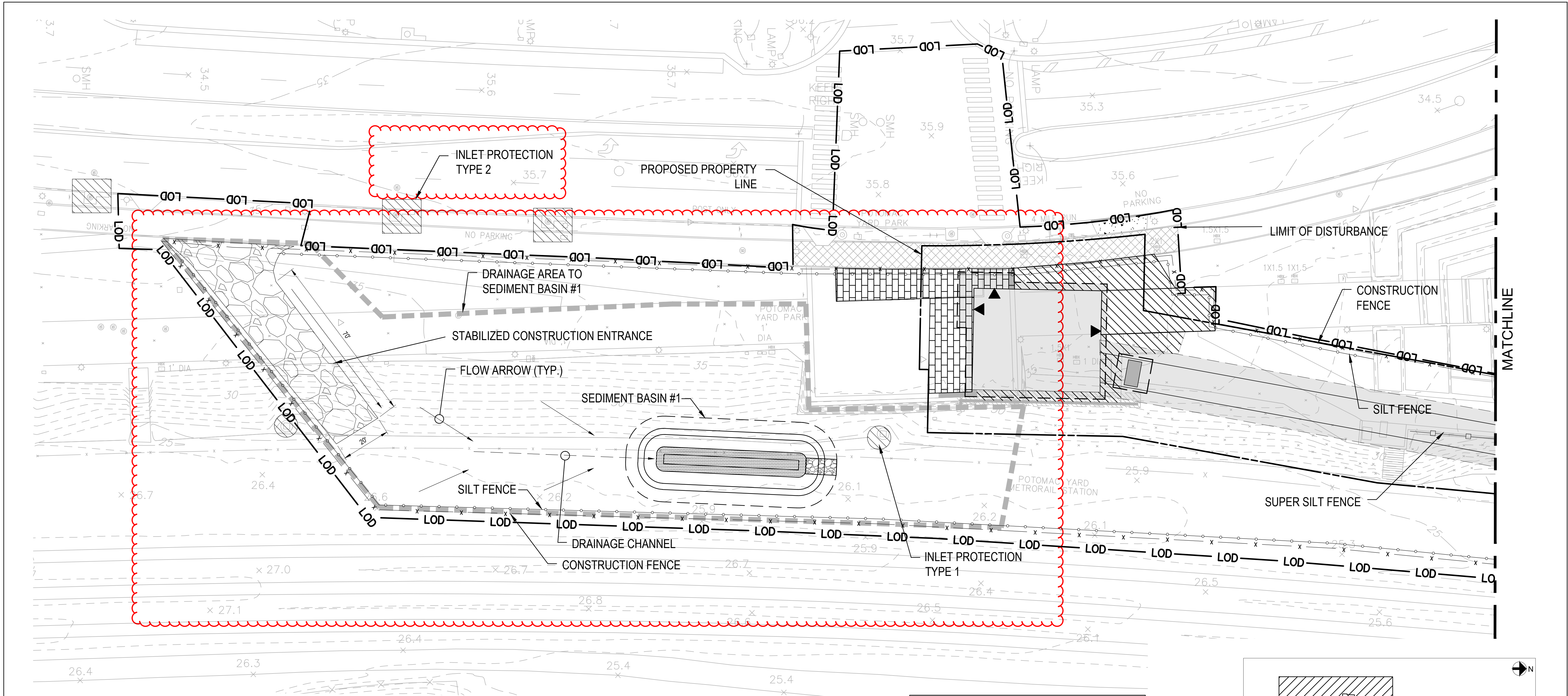


ARUP

M NO.	CONTRACT NO.	SCALE:	DRAWING NO.	SHEET NO.
M1316	FQ16146		C-163	33 OF 60

POTOMAC YARD METRORAIL STATION
SOUTH PAVILION, BRIDGE SPAN, AND KNUCKLE EGRESS STAIR
FINAL SITE PLAN
UTILITY DETAILS

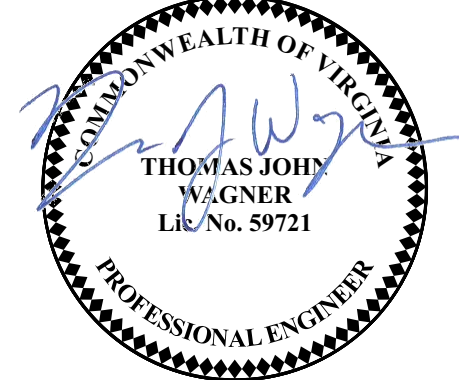
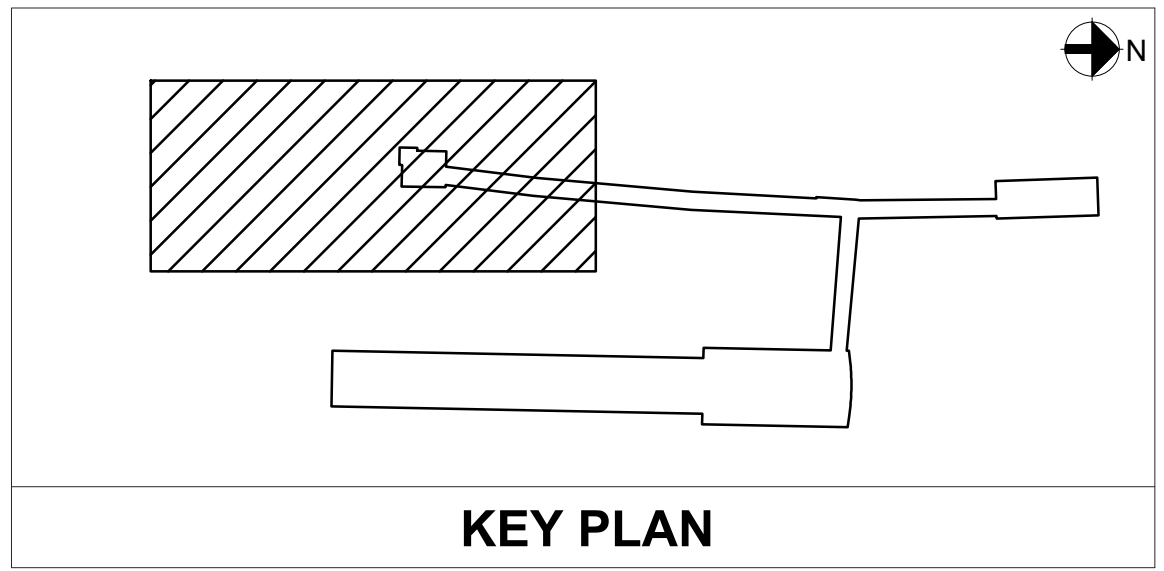
9/17/2019 4:11 PM
FILE PATH: C:\TEMP\UAS_TASK_62



SEDIMENT BASIN ID	DRAINAGE AREA	SEDIMENT VOLUME REQ'D	SURFACE AREA	DEPTH	H0	H
SEDIMENT BASIN #1	0.53 AC	134 CY X 0.53AC = 71 CY	600 SF	1.5FT	1.5 FT	2.5FT

NOTES:			ARCHAEOLOGY NOTES:		
1)	REFER TO DRAWING G-003 FOR LEGEND AND ABBREVIATIONS.		1.	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.	
2)	OFFSET DISTANCE SHOWN ON THE PLAN BETWEEN LOD, FENCE AND SILT FENCE IS INDICATIVE ONLY. THE LIMIT OF DISTURBANCE SHALL BE DELINEATED BY THE FENCE LINE AND SILT FENCE SHALL BE IMMEDIATELY ADJACENT TO THE FENCE.		2.	THE APPLICANT SHALL CALL ALEXANDRIA ARCHAEOLOGY IMMEDIATELY (703-838-4399) IF ANY BURIED STRUCTURAL REMAINS (WALL FOUNDATIONS, WELLS, PRIVIES, CISTERNS, ETC.) OR CONCENTRATIONS OF ARTIFACTS ARE DISCOVERED DURING DEVELOPMENT. WORK MUST CEASE IN THE AREA OF THE DISCOVERY UNTIL A CITY ARCHAEOLOGIST COMES TO THE SITE AND RECORDS THE FINDS.	
4)	WASH WATER WILL BE PROVIDED BY WATER TRUCK.		3.	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.	
5)	THE SILT FENCE LIMITS SHOWN HEREIN ARE TO ENSURE PROTECTION OF THE OUTERMOST LIMITS OF DISTURBANCE AND BMPs. CONTRACTOR SHALL PROVIDE ADDITIONAL SILT FENCE IN ACCORDANCE WITH THE CONSTRUCTION PHASING TO ENSURE THE DRAINAGE AREA TO THE SILT FENCE MEETS THE FOLLOWING REQUIREMENT: DRAINAGE AREA SHALL BE NO MORE THAN 1/4 ACRE PER 100 LF OF SILT FENCE.				

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. _____



PROFESSIONAL CERTIFICATION:
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF VIRGINIA.

LICENSE NO. _____
EXPIRATION DATE: _____

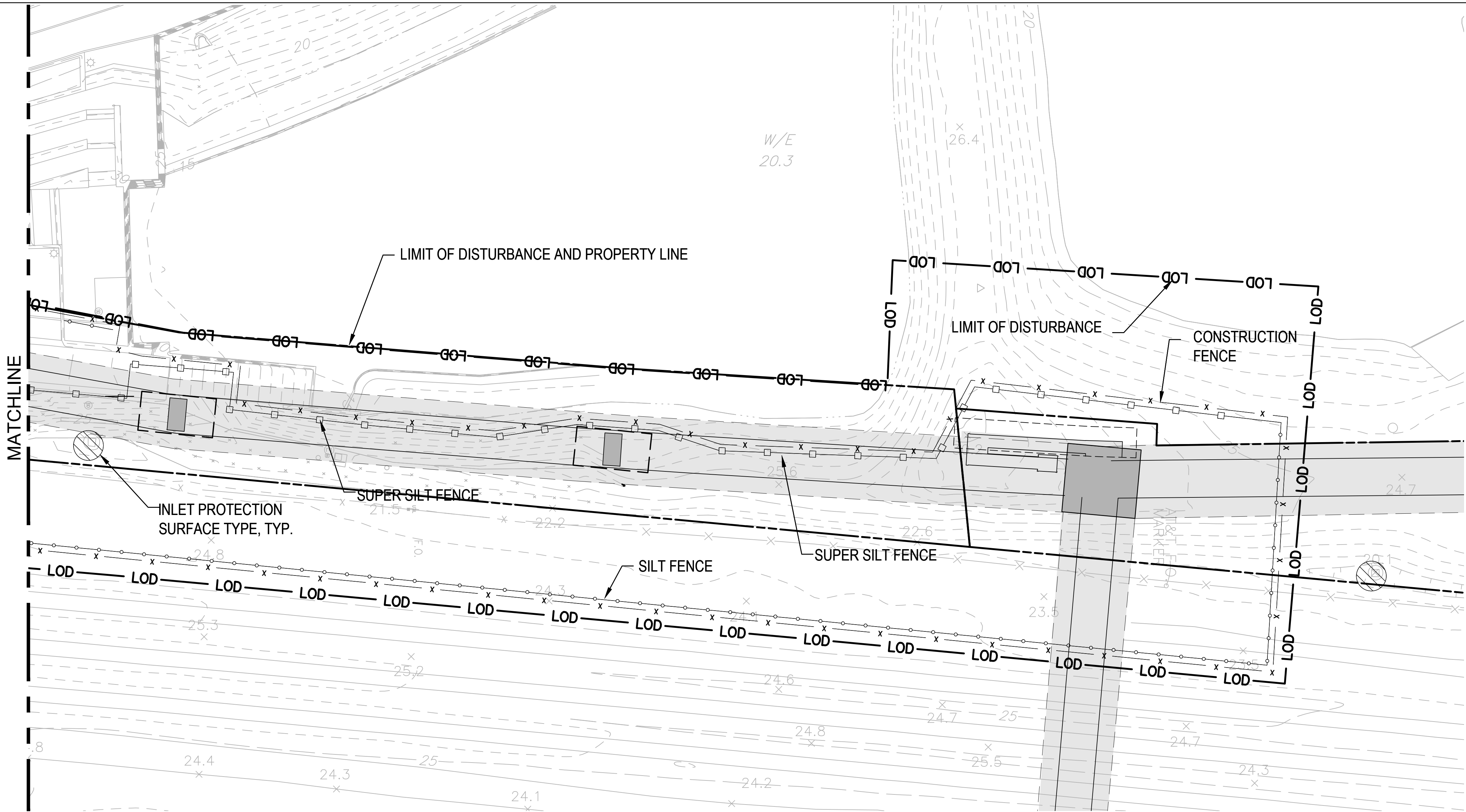
REFERENCE DRAWINGS			REVISIONS		
DESIGNED	DATE		DATE	NUM	DESCRIPTION
MSP	09/09/2020		10/07/2020	1	FSP #2
DRAWN	AW	09/09/2020			
CHECKED	JD	09/09/2020			
APPROVED	TW	09/09/2020			

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY	
DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES	
OFFICE OF THE CHIEF ENGINEER, INFRASTRUCTURE	
SUBMITTED _____	DATE _____
APPROVED _____	DATE _____
DIRECTOR _____	



POTOMAC YARD METRORAIL STATION SOUTH PAVILION, BRIDGE SPAN, AND KNUCKLE EGRESS STAIR FINAL SITE PLAN				
EROSION AND SEDIMENT CONTROL PLAN - SHEET 1 OF 2				
M NO. M1316	CONTRACT NO. FQ16146	SCALE: 1" = 20'	DRAWING NO. C-171	SHEET NO. 34 OF 60

9/17/2019 4:11 PM
FILE PATH: C:\TEMP\UAS_TASK_62

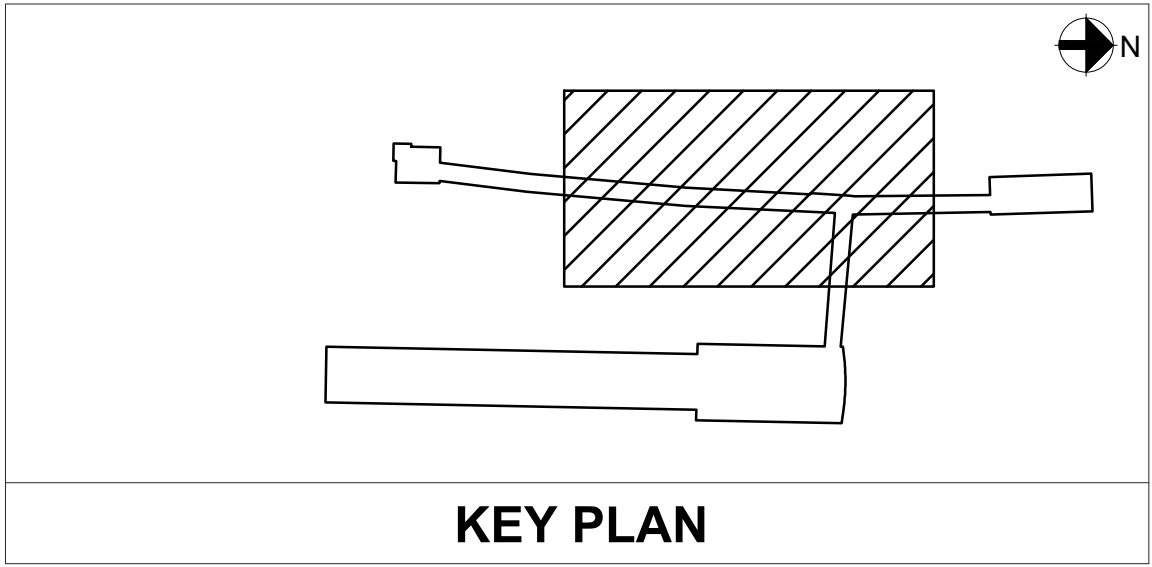


- NOTES:
- 1) REFER TO DRAWING G-003 FOR LEGEND AND ABBREVIATIONS.
 - 2) A "CERTIFIED LAND DISTURBER" (CLD) SHALL BE NAMED IN A LETTER TO THE DIVISION CHIEF OF CONSTRUCTION AND INSPECTION (C&I), DEPARTMENT OF TRANSPORTATION AND ENVIRONMENTAL SERVICES PRIOR TO ANY LAND DISTURBING ACTIVITIES. IF THE CLD CHANGES DURING THE PROJECT, THAT CHANGE MUST BE NOTED IN A LETTER TO THE DIVISION CHIEF.
 - 2) OFFSET DISTANCE SHOWN ON THE PLAN BETWEEN LOD, FENCE AND SILT FENCE IS INDICATIVE ONLY. THE LIMIT OF DISTURBANCE SHALL BE DELINEATED BY THE FENCE LINE AND SILT FENCE SHALL BE IMMEDIATELY ADJACENT TO THE FENCE.
 - 4) WASH WATER WILL BE PROVIDED BY WATER TRUCK.
 - 5) THE SILT FENCE LIMITS SHOWN HEREIN ARE TO ENSURE PROTECTION OF THE OUTERMOST LIMITS OF DISTURBANCE AND BMPs. CONTRACTOR SHALL PROVIDE ADDITIONAL SILT FENCE IN ACCORDANCE WITH THE CONSTRUCTION PHASING TO ENSURE THE DRAINAGE AREA TO THE SILT FENCE MEETS THE FOLLOWING REQUIREMENT: DRAINAGE AREA SHALL BE NO MORE THAN 1/4 ACRE PER 100 LF OF SILT FENCE.

- ARCHAEOLOGY NOTES:
1. 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.
 2. THE APPLICANT SHALL CALL ALEXANDRIA ARCHAEOLOGY IMMEDIATELY (703-838-4399) IF ANY BURIED STRUCTURAL REMAINS (WALL FOUNDATIONS, WELLS, PRIVIES, CISTERNS, ETC.) OR CONCENTRATIONS OF ARTIFACTS ARE DISCOVERED DURING DEVELOPMENT. WORK MUST CEASE IN THE AREA OF THE DISCOVERY UNTIL A CITY ARCHAEOLOGIST COMES TO THE SITE AND RECORDS THE FINDS.
 3. 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.

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. _____

0 20 40 60



WMATA LDP
COORDINATE
SYSTEM



PROFESSIONAL CERTIFICATION:
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF VIRGINIA.

LICENSE NO.
EXPIRATION DATE:

DESIGNED			REFERENCE DRAWINGS				REVISIONS		
	MSP	09/09/2020	NUMBER	DESCRIPTION	DATE	NUM	DESCRIPTION		
DRAWN	AW	09/09/2020			10/07/2020	1	FSP #2		
CHECKED	JD	09/09/2020							
APPROVED	TW	09/09/2020							

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES
OFFICE OF THE CHIEF ENGINEER, INFRASTRUCTURE

SUBMITTED _____ DATE _____
APPROVED _____ DATE _____
DIRECTOR _____



ARUP

POTOMAC YARD METRORAIL STATION
SOUTH PAVILION, BRIDGE SPAN, AND KNUCKLE EGRESS STAIR
FINAL SITE PLAN

EROSION AND SEDIMENT CONTROL PLAN - SHEET 2 OF 2

M NO. M1316	CONTRACT NO. FQ16146	SCALE: 1" = 20'	DRAWING NO. C-172	SHEET NO. 35 OF 60
----------------	-------------------------	--------------------	----------------------	-----------------------

GENERAL EROSION AND SEDIMENT CONTROL NOTES

1. AN EROSION AND SEDIMENT CONTROL PLAN MUST BE APPROVED BY THE DIRECTOR OF TRANSPORTATION AND ENVIRONMENTAL SERVICES PRIOR TO ANY LAND DISTURBING ACTIVITY GREATER THAN 2,500 SQUARE FEET.
2. ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE CONSTRUCTED AND MAINTAINED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS OF THE CITY OF ALEXANDRIA AND VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK (VESCH), VIRGINIA REGULATIONS §4VAC50-30 EROSION AND SEDIMENT CONTROL REGULATIONS.
3. AN EROSION AND SEDIMENT CONTROL PLAN IS INCLUDED WITH THESE FINAL PLANS FOR APPROVAL BY THE DIRECTOR, TRANSPORTATION AND ENVIRONMENTAL SERVICES FOR REFERENCE BY THE EROSION AND SEDIMENT CONTROL PERMIT.
4. A "CERTIFIED LAND DISTURBER" (CLD) SHALL BE NAMED IN A LETTER TO THE DIVISION CHIEF OF CONSTRUCTION AND INSPECTION (C&I), DEPARTMENT OF TRANSPORTATION AND ENVIRONMENTAL SERVICES PRIOR TO ANY LAND DISTURBING ACTIVITIES. IF THE CLD CHANGES DURING THE PROJECT, THAT CHANGE MUST BE NOTED IN A LETTER TO THE DIVISION CHIEF. A NOTE TO THIS EFFECT SHALL BE PLACED ON THE PHASE I EROSION AND SEDIMENT CONTROL SHEETS ON THE SITE PLAN.
5. THE DEPARTMENT OF TRANSPORTATION AND ENVIRONMENTAL SERVICES, CONSTRUCTION AND INSPECTION (C&I) DIVISION MUST BE NOTIFIED ONE WEEK PRIOR TO THE PRE-CONSTRUCTION CONFERENCE, ONE WEEK PRIOR TO THE COMMENCEMENTS OF LAND DISTURBING ACTIVITY, AND ONE WEEK PRIOR TO THE FINAL INSPECTION. THE RESPONSIBLE CERTIFIED LAND DISTURBER (CLD) SHALL ATTEND THE PRE-CONSTRUCTION MEETING.
6. SEDIMENT BASINS AND TRAPS, PERIMETER DIKES, SEDIMENT BARRIERS AND ALL OTHER EROSION AND SEDIMENT CONTROL MEASURES INTENDED TO CONTROL EROSION AND TRAP SEDIMENT SHALL BE CONSTRUCTED AS A FIRST STEP IN ANY LAND-DISTURBING ACTIVITY AND SHALL BE MADE FUNCTIONAL BEFORE UPSLOPE LAND DISTURBANCE TAKES PLACE.
7. CONSTRUCTION SHALL BE SEQUENCED SUCH THAT GRADING OPERATION CAN BEGIN AND END AS QUICKLY AS POSSIBLE. AREAS NOT TO BE DISTURBED MUST BE CLEARLY MARKED OR FLAGGED.
8. 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.
9. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
10. 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.
11. THE DEVELOPER AND CONTRACTORS ARE TO KEEP DENUDED AREAS TO A MINIMUM. PERMANENT OR TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO DENUDED AREAS WITHIN SEVEN DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE. TEMPORARY SOIL STABILIZATION SHALL BE APPLIED WITHIN SEVEN DAYS TO DENUDED AREAS THAT MAY NOT BE AT FINAL GRADE BUT WILL REMAIN DORMANT FOR LONGER THAN 30 DAYS. PERMANENT STABILIZATION SHALL BE APPLIED TO AREAS THAT ARE TO BE LEFT DORMANT FOR MORE THAN ONE YEAR. ANY STOCKPILED MATERIAL WHICH WILL REMAIN IN PLACE LONGER THAN 10 DAYS MUST BE SEEDED FOR TEMPORARY VEGETATION AND MULCHED WITH STRAW MULCH OR OTHERWISE STABILIZED.
12. ALL TEMPORARY EARTH BERMS, DIVERSIONS AND SEDIMENT CONTROL DAMS SHALL BE SEEDED AND MULCHED OR OTHERWISE STABILIZED AS SOON AS POSSIBLE BUT NO LATER THAN 48 HOURS AFTER GRADING.
13. 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.
14. DURING DEWATERING OPERATIONS, WATER SHALL BE PUMPED THROUGH AN APPROVED FILTERING DEVICE OR PASSED THROUGH AN APPROVED SEDIMENT TRAPPING DEVICE, OR BOTH, AND DISCHARGED IN A MANNER THAT DOES NOT ADVERSELY IMPACT FLOWING STREAMS OR OFF-SITE PROPERTY.
15. 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.
16. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES AS NECESSARY TO PREVENT EROSION AND SEDIMENTATION AND AS DETERMINED BY THE DIRECTOR OF TRANSPORTATION AND ENVIRONMENTAL (T&ES) SERVICES OF THE CITY OF ALEXANDRIA.
17. 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.
18. ALL VEHICLES SHALL BE CLEANED BEFORE ENTERING ONTO THE PUBLIC RIGHT-OF-WAY.
19. THE WASH WATER FROM THE CONSTRUCTION ENTRANCE SHALL BE FILTERED THROUGH THE PROVIDED SILT FENCE TO ENSURE THAT NO SEDIMENT LADEN RUNOFF IS ALLOWED TO RUNOFF ON TO THE ADJACENT PROPERTY OR THE PUBLIC RIGHT OF WAY.
20. INSTALL SILT FENCE AND TREE PROTECTION, WHERE APPLICABLE.
21. DUST CONTROL SHALL BE ACCOMPLISHED BY TEMPORARY VEGETATIVE COVER AND BY IRRIGATION AS NEEDED.

EROSION AND SEDIMENT CONTROL NARRATIVE

PROJECT DESCRIPTION:

THIS PLAN PROPOSES THE CONSTRUCTION OF AN ENTRANCE PAVILION TO AN ELEVATED WALKWAY CONNECTION TO A PREVIOUSLY APPROVED RAIL STATION. THE WORK WILL INCLUDE SITE GRADING, STORMWATER MANAGEMENT, SOIL STABILIZATION, UTILITY INSTALLATION, AND RESTORATION OF SITE PAVING.

EXISTING CONDITIONS:

THE SITE IS AN EXISTING PARK WITH HARDSCAPE PAVERS AND BICYCLE PATH.

ADJACENT PROPERTIES:

THE PROJECT SITE IS BORDERED TO THE EAST BY CSX RIGHT OF WAY, WEST BY CITY OF ALEXANDRIA PARK AND POTOMAC AVE., SOUTH BY THE CITY-OWNED PARK, AND NORTH BY WMATA PROPERTY (PROPOSED PER DSUP 2018-0017.

SOIL DATA:

A GEOTECHNICAL REPORT FOR THE SUBJECT PROPERTY WAS PREPARED BY ARUP, DATED DECEMBER 19, 2018. IT IS A PRELIMINARY INTERPRETIVE REPORT BASED ON PREVIOUS GEOTECHNICAL INVESTIGATIONS THAT WERE PERFORMED BY GEOCONCEPTS ENGINEERS INC. A SUPPLEMENTAL GEOTECHNICAL INVESTIGATION WILL BE PERFORMED, AT WHICH TIME A NEW REPORT WILL BE GENERATED.

LIMIT OF DISTURBANCE:

THE LIMITS OF DISTURBANCE AS SHOWN ON THE E&S PLAN ARE THE LIMITS OF DISTURBANCE FOR THIS APPLICATION. THE CITY WILL NOT ALLOW INCLUSION OF ANY PORTION OF THE PUBLIC RIGHT OF WAY, INCLUDING SIDEWALKS, INTO THE PROJECT AREA FOR THE PROJECT AREA FOR THE PROJECT DURATION. WORK AND ASSOCIATED CLOSURES IN THE PUBLIC RIGHT OF WAY WILL BE PERMITTED SEPARATELY ON AN AS NEEDED BASIS BY T&ES

CRITICAL EROSION AREAS:

THE EXISTING STORMWATER POND TO THE WEST OF THE PROPOSED PEDESTRIAN BRIDGE IS PROTECTED BY SUPER SILT FENCE.

DESCRIPTIONS OF E&S MEASURES (TAKEN FROM VESCH 3RD ED., 1992)

SAFETY FENCE: (3.01) A PROTECTIVE BARRIER INSTALLED TO PROHIBIT UNDESIRABLE USE OF AN EROSION CONTROL MEASURE.

TEMPORARY STONE CONSTRUCTION ENTRANCE: (3.02) A STONE PAD, LOCATED AT POINTS OF VEHICULAR INGRESS AND EGRESS ON A CONSTRUCTION SITE, TO REDUCE THE SOIL TRANSPORTED ONTO PUBLIC ROADS AND OTHER PAVED AREAS.

CONSTRUCTION ROAD STABILIZATION: (3.03) TEMPORARY STABILIZATION WITH STONE OF ACCESS ROADS, SUBDIVISION STREETS, PARKING AREAS AND OTHER TRAFFIC AREAS IMMEDIATELY AFTER GRADING TO REDUCE EROSION CAUSED BY VEHICLES DURING WET WEATHER, AND TO PREVENT HAVING TO REGRADE PERMANENT ROADBEDS BETWEEN INITIAL GRADING AND FINAL STABILIZATION.

SILT FENCE: (3.05) A TEMPORARY SEDIMENT BARRIER CONSTRUCTED OF POSTS, FILTER FABRIC AND, IN SOME CASES, A WIRE SUPPORT FENCE, PLACED ACROSS OR AT THE TOE OF A SLOPE OR IN A MINOR DRAINAGE WAY TO INTERCEPT AND DETAIN SEDIMENT AND DECREASE FLOW VELOCITIES FROM DRAINAGE AREAS OF LIMITED SIZE; APPLICABLE WHERE SHEET AND RILL EROSION OR SMALL CONCENTRATED FLOWS MAY BE A PROBLEM. MAXIMUM EFFECTIVE LIFE OF 6 MONTHS.

STORM DRAIN INLET PROTECTION: (3.07) THE INSTALLATION OF VARIOUS KINDS OF SEDIMENT TRAPPING MEASURES AROUND DROP INLETS OR CURB INLET STRUCTURES PRIOR TO PERMANENT STABILIZATION OF THE DISTURBED AREA; LIMITED TO DRAINAGE AREAS NOT EXCEEDING ONE ACRE, AND NOT INTENDED TO CONTROL LARGE, CONCENTRATED STORMWATER FLOWS.

OUTLET PROTECTION: (3.18) THE INSTALLATION OF RIPRAP CHANNEL SECTIONS AND/OR STILLING BASINS BELOW STORM DRAIN OUTLETS TO REDUCE EROSION AND UNDER-CUTTING FROM SCOURING AT OUTLETS AND TO REDUCE FLOW VELOCITIES BEFORE STORMWATER ENTERS RECEIVING CHANNELS BELOW THESE OUTLETS.

RIP RAP: (3.19) A PERMANENT, EROSION-RESISTANT GROUND COVER OF LARGE, LOOSE, ANGULAR STONE INSTALLED WHEREVER SOIL CONDITIONS, WATER TURBULENCE AND VELOCITY, EXPECTED VEGETATIVE COVER, ETC., ARE SUCH THAT SOIL MAY ERODE UNDER DESIGN FLOW CONDITIONS.

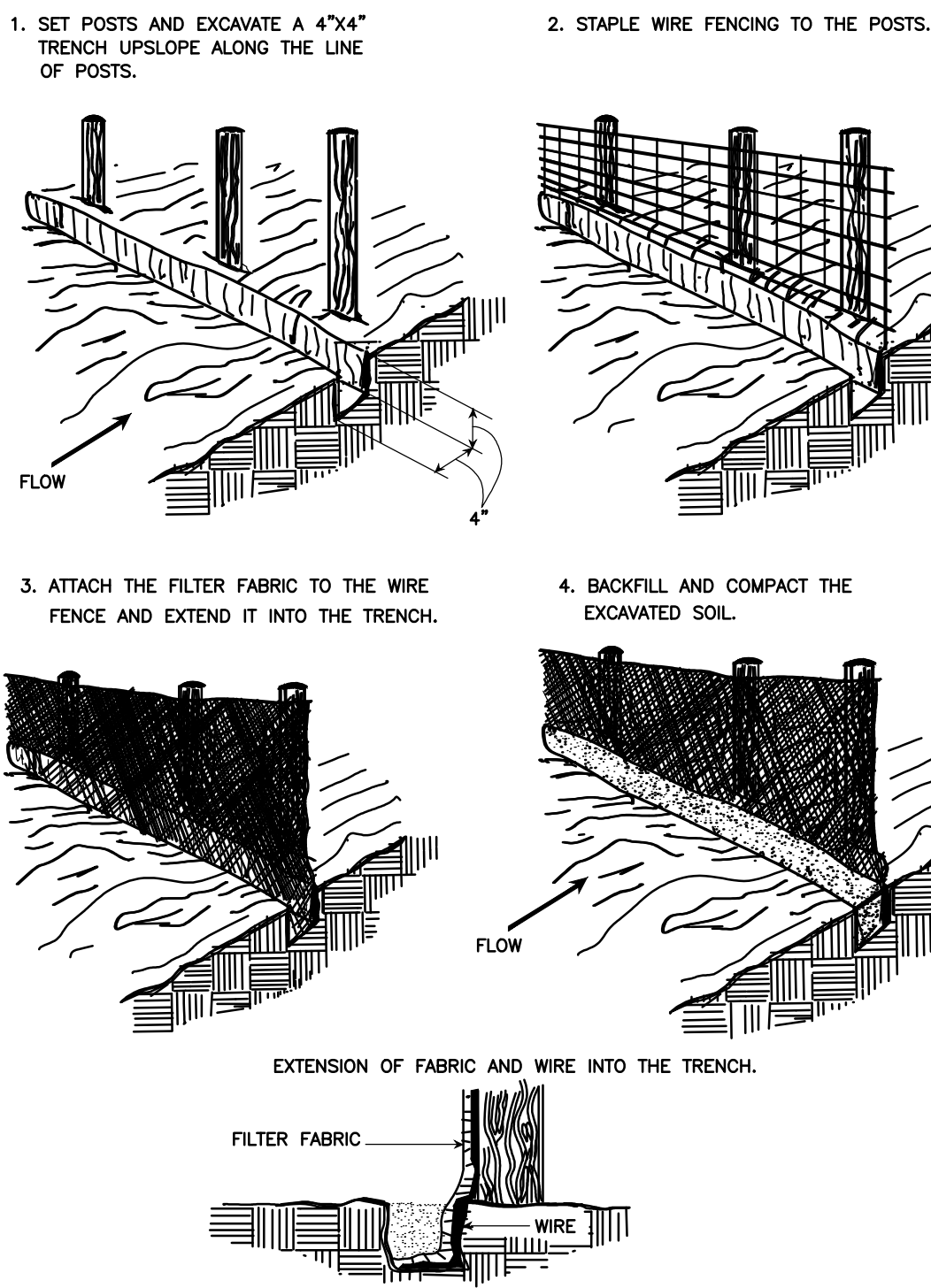
TEMPORARY SEEDING: (3.31) ESTABLISHMENT OF TEMPORARY VEGETATIVE COVER ON DISTURBED AREAS THAT WILL NOT BE BROUGHT TO FINAL GRADE FOR PERIODS OF 30 DAYS TO ONE YEAR BY SEEDING WITH APPROPRIATE RAPIDLY-GROWING PLANTS.

PERMANENT SEEDING: (3.32) ESTABLISHMENT OF PERENNIAL VEGETATIVE COVER BY PLANTING SEED ON ROUGH-GRADED AREAS THAT WILL NOT BE BROUGHT TO FINAL GRADE FOR A YEAR OR MORE OR WHERE PERMANENT, LONG-LIVED VEGETATIVE COVER IS NEEDED ON FINE-GRADED AREAS.

SOIL STABILIZATION MATTING: (3.36) THE INSTALLATION OF A PROTECTIVE COVERING (BLANKET) OR A SOIL STABILIZATION MAT ON A PREPARED PLANTING AREA OF A STEEP SLOPE OR CHANNEL.

TREE PRESERVATION AND PROTECTION: (3.38) PROTECTING EXISTING TREES FROM MECHANICAL AND OTHER INJURY DURING LAND-DISTURBING AND CONSTRUCTION ACTIVITY TO ENSURE THE SURVIVAL OF DESIRABLE TREES WHERE THEY WILL BE EFFECTIVE FOR EROSION AND SEDIMENT CONTROL AND PROVIDE OTHER ENVIRONMENTAL AND AESTHETIC BENEFITS.

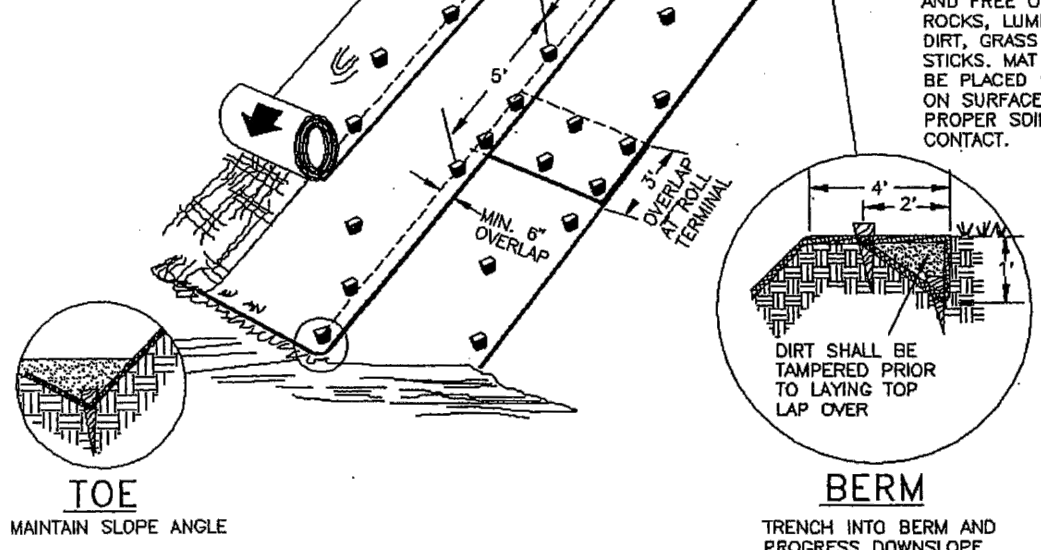
DUST CONTROL: (3.39) REDUCING SURFACE AND AIR MOVEMENT OF DUST DURING LAND DISTURBANCE, DEMOLITION OR CONSTRUCTION ACTIVITIES IN AREAS SUBJECT TO DUST PROBLEMS IN ORDER TO PREVENT SOIL LOSS AND REDUCE THE PRESENCE OF POTENTIALLY HARMFUL AIRBORNE SUBSTANCE.



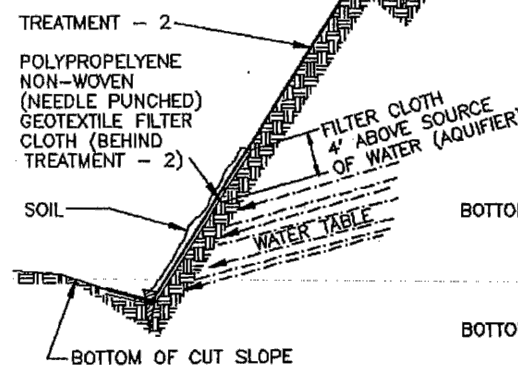
TYPICAL TREATMENT - 2
SOIL STABILIZATION MATTING
SLOPE INSTALLATION

FILL SLOPE SECTION

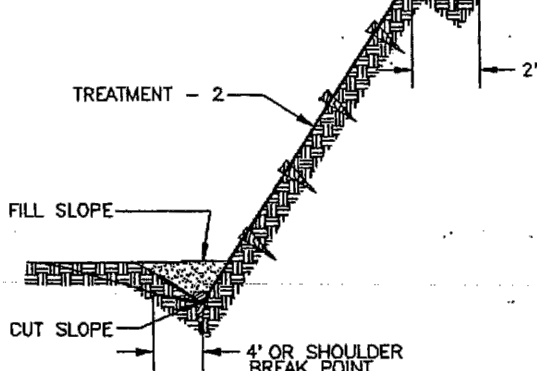
SOIL STABILIZATION MATS SHOULD BE INSTALLED VERTICALLY DOWNSLOPE FOR BEST RESULTS.



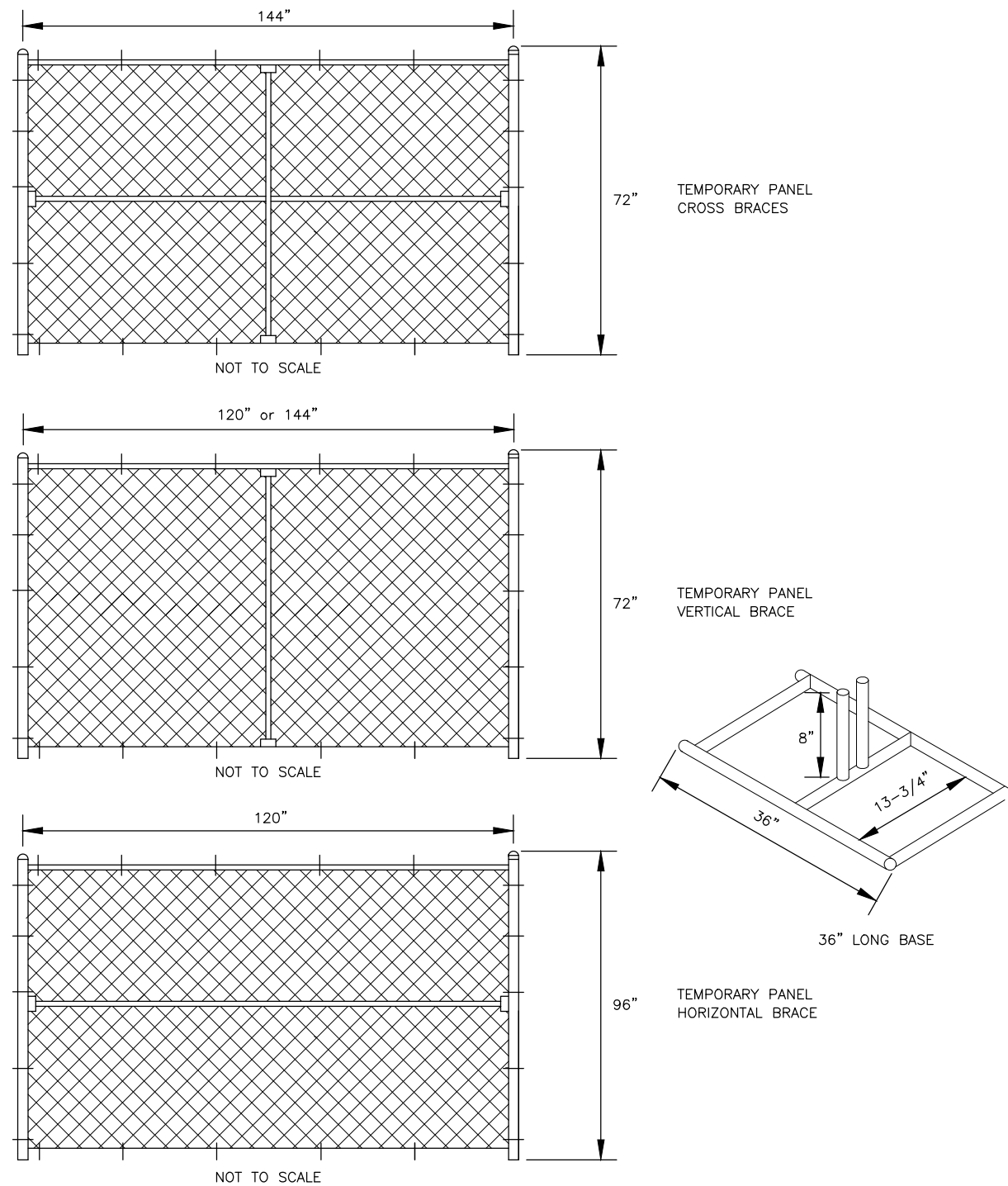
SLOPE LINING
(WET SLOPE)



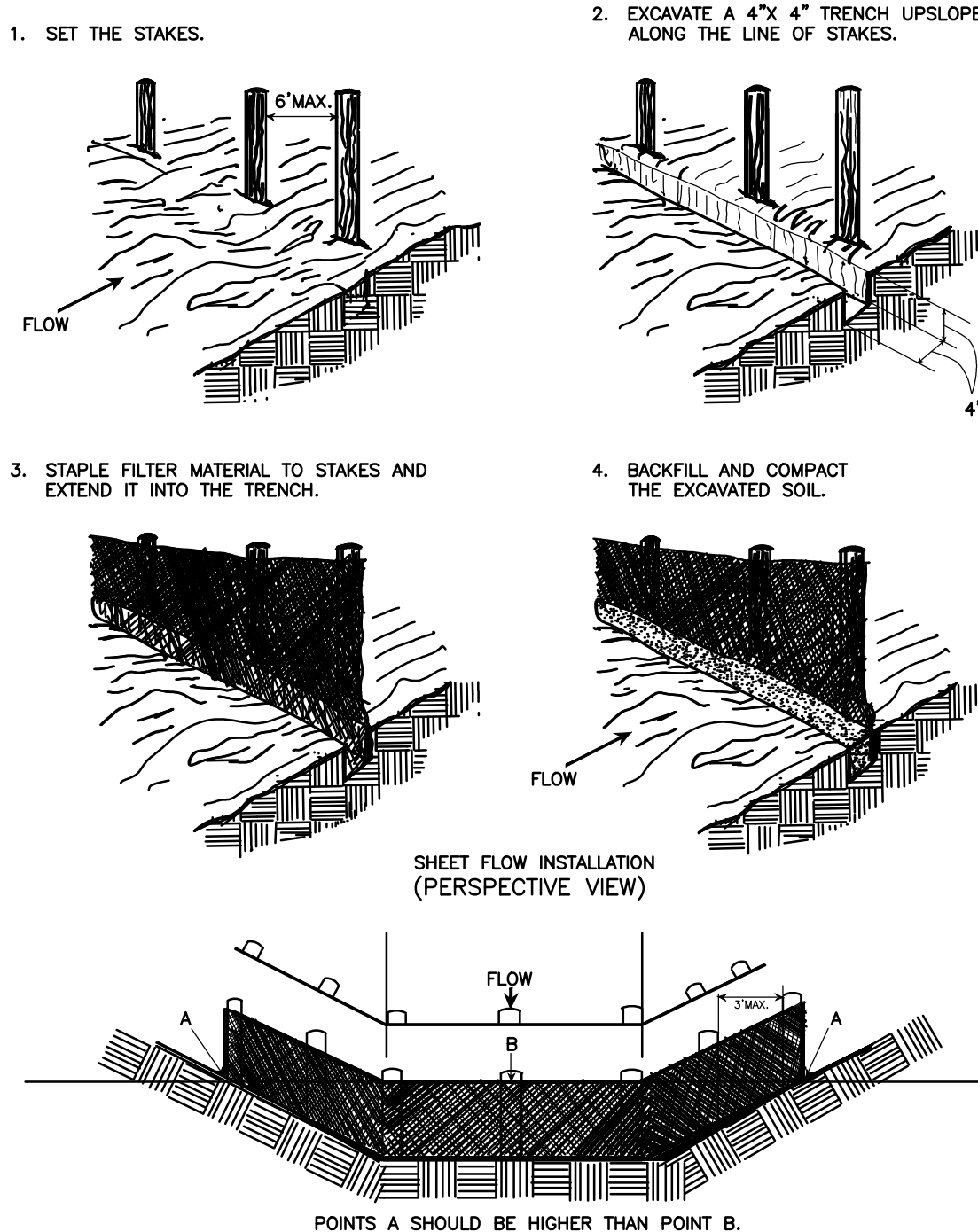
SLOPE LINING
(DRY SLOPE)



02 SUPER SILT FENCE (WITH WIRE SUPPORT)
SCALE: NTS



TUBING MATERIAL: 1-3/8" X 16 GAUGE WITH 12.5 GAUGE X 2-3/8" CHAIN LINK WIRE



DRAINAGEWAY INSTALLATION (FRONT ELEVATION)

01 SILT FENCE (WITHOUT WIRE SUPPORT)
SCALE: NTS

04 TEMPORARY CONSTRUCTION FENCE DETAIL
SCALE: NTS

03 STABILIZATION MATTING - TREATMENT TYPE 2
SCALE: NTS

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. _____	

PROFESSIONAL CERTIFICATION:
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF VIRGINIA.

LICENSE NO. _____
EXPIRATION DATE: _____



WMATA LDP
COORDINATE
SYSTEM



WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES
OFFICE OF THE CHIEF ENGINEER, INFRASTRUCTURE

SUBMITTED _____ DATE _____
APPROVED _____ DATE _____
DIRECTOR _____



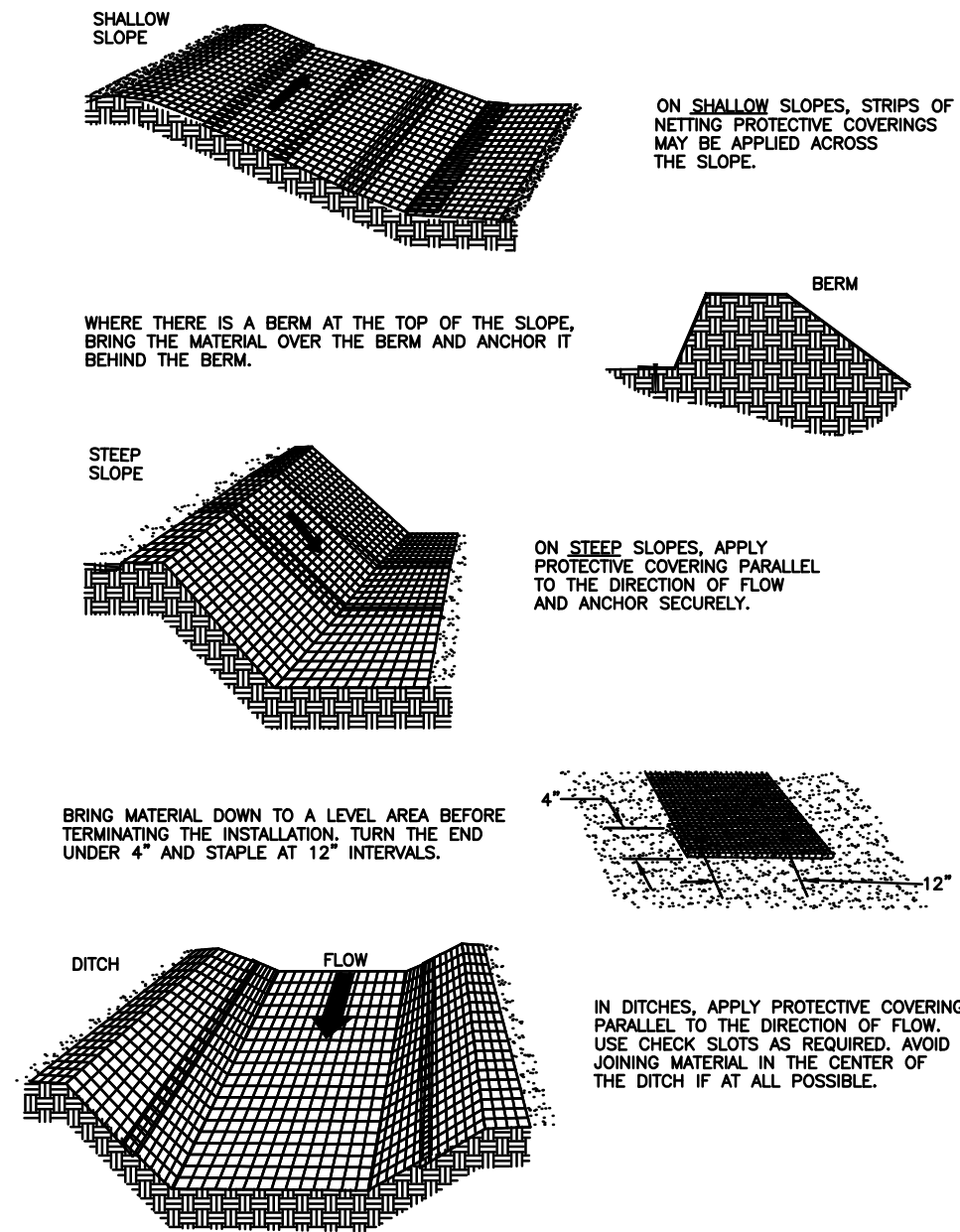
ARUP

POTOMAC YARD METRORAIL STATION
SOUTH PAVILION, BRIDGE SPAN, AND KNUCKLE EGRESS STAIR
FINAL SITE PLAN

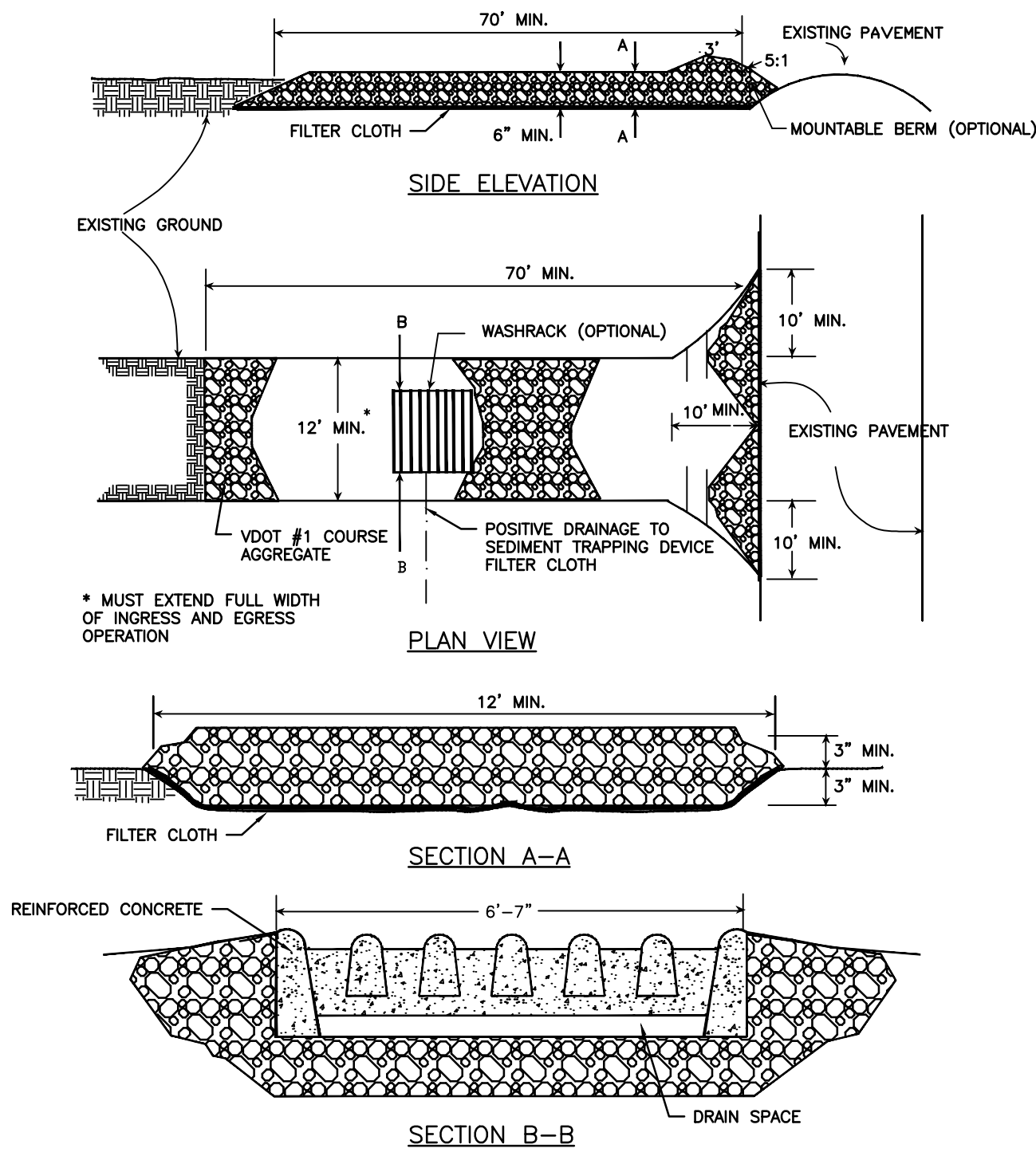
EROSION AND SEDIMENT CONTROL DETAILS - SHEET 1 OF 2

M NO. M1316	CONTRACT NO. FQ16146	SCALE: AS SHOWN	DRAWING NO. C-173	SHEET NO. 36 OF 60
-------------	----------------------	-----------------	-------------------	--------------------

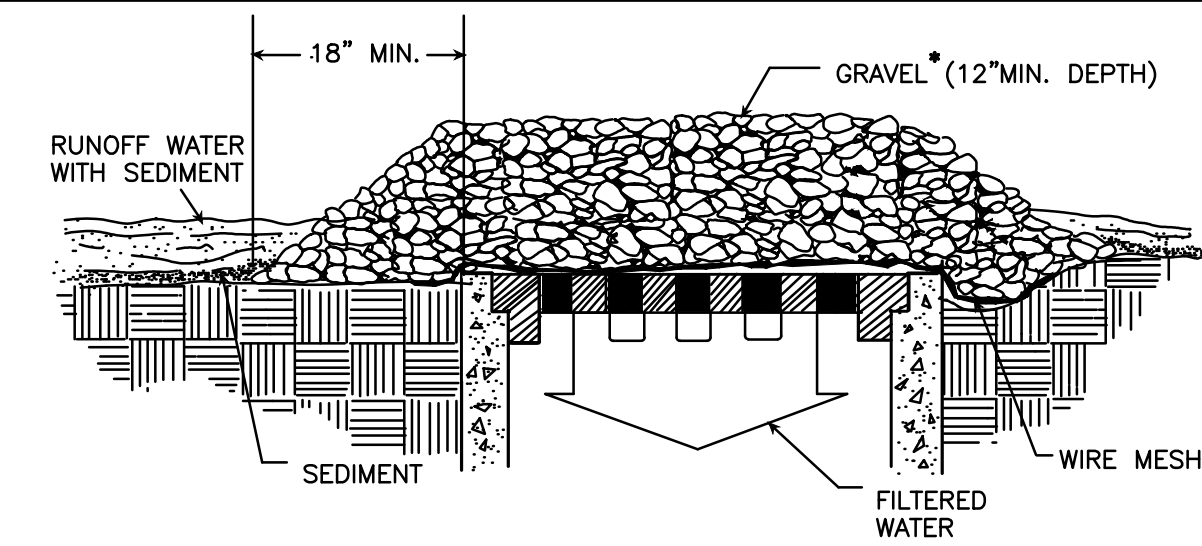
9/17/2019 5:15 PM
FILE PATH: C:\TEMP\JAS_TASK_62



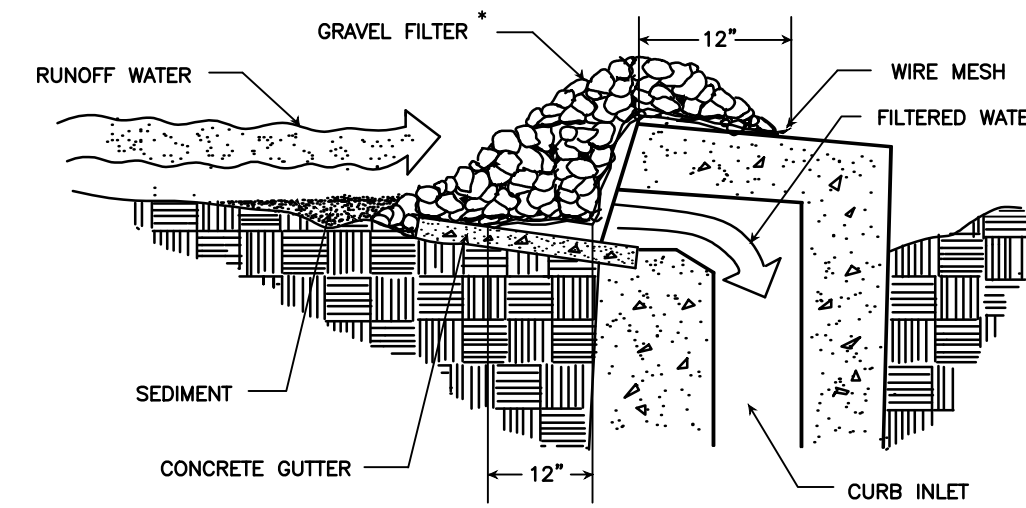
01 TYPICAL ORIENTATION OF TREATMENT - 1 (SOIL STABILIZATION BLANKET)
SCALE: NTS



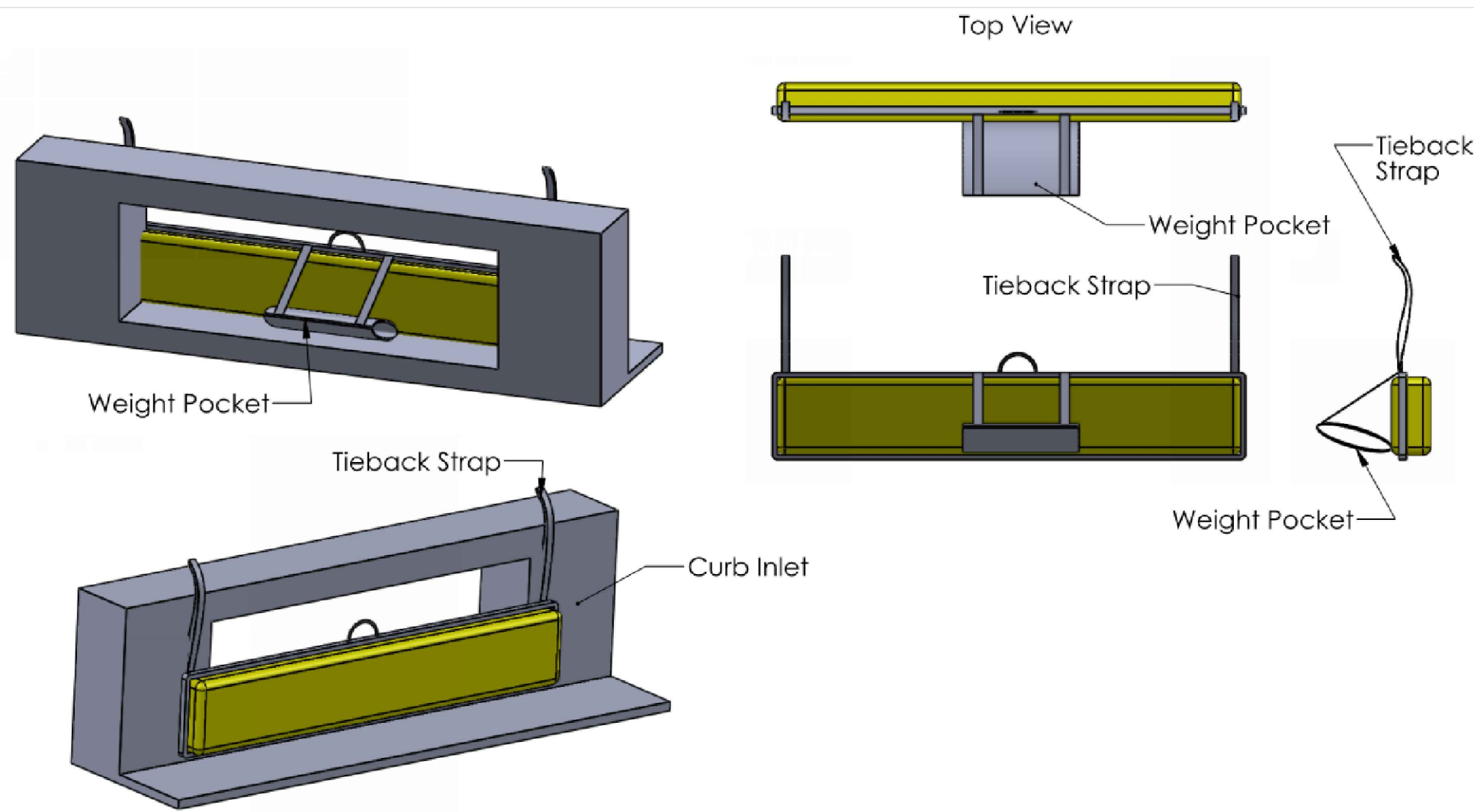
02 STONE CONSTRUCTION ENTRANCE
SCALE: NTS



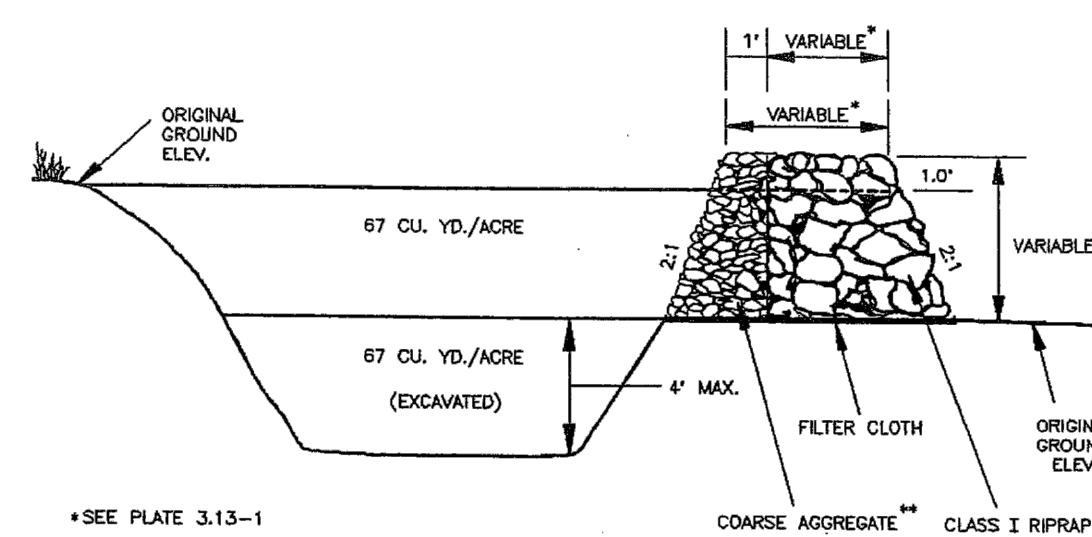
03 GRAVEL AND WIRE MESH DROP INLET SEDIMENT FILTER
SCALE: NTS



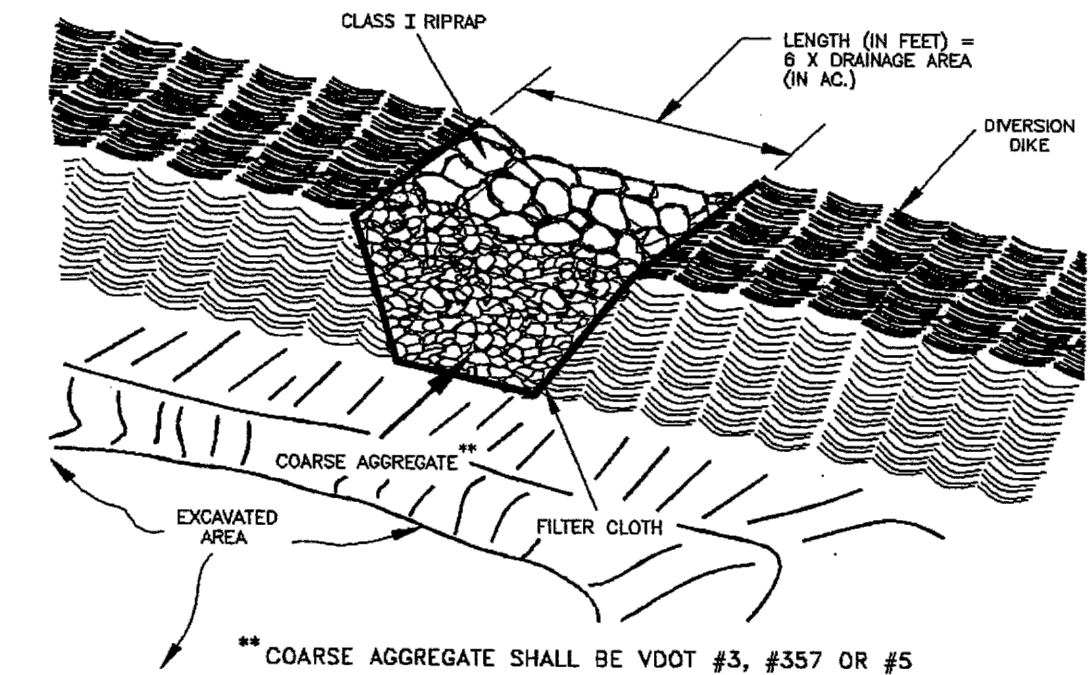
04 GRAVEL CURB INLET SEDIMENT FILTER
SCALE: NTS



05 GUTTER GATOR - CURB TYPE INLET PROTECTION WITHIN EXISTING STREETS
SCALE: NTS

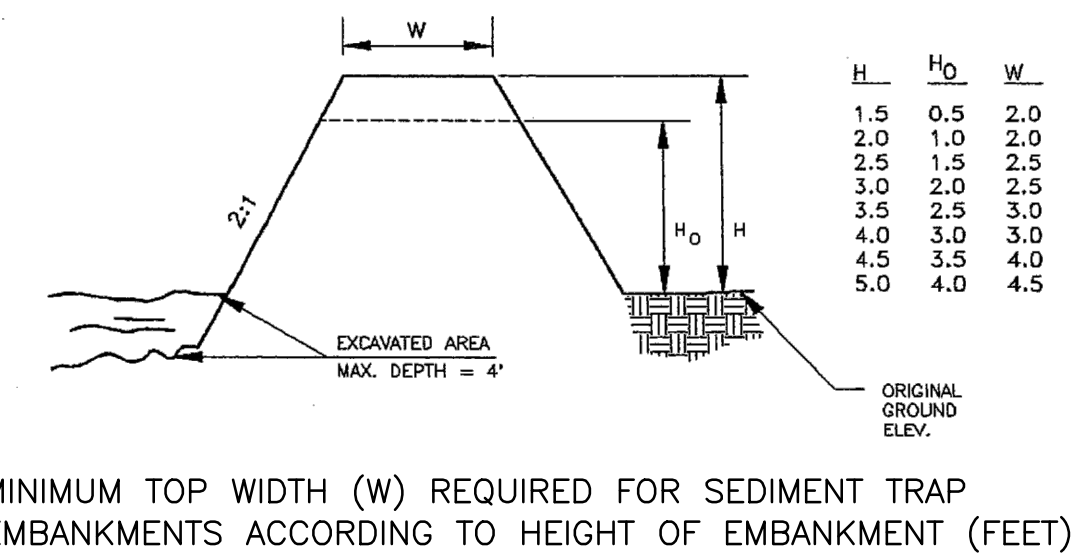


CROSS SECTION OF OUTLET



OUTLET (PERSPECTIVE VIEW)

06 TEMPORARY SEDIMENT TRAP
SCALE: NTS



MINIMUM TOP WIDTH (W) REQUIRED FOR SEDIMENT TRAP EMBANKMENTS ACCORDING TO HEIGHT OF EMBANKMENT (FEET)

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

DIRECTOR _____ DATE _____

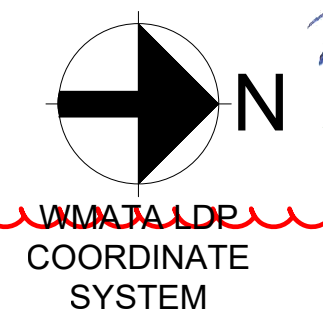
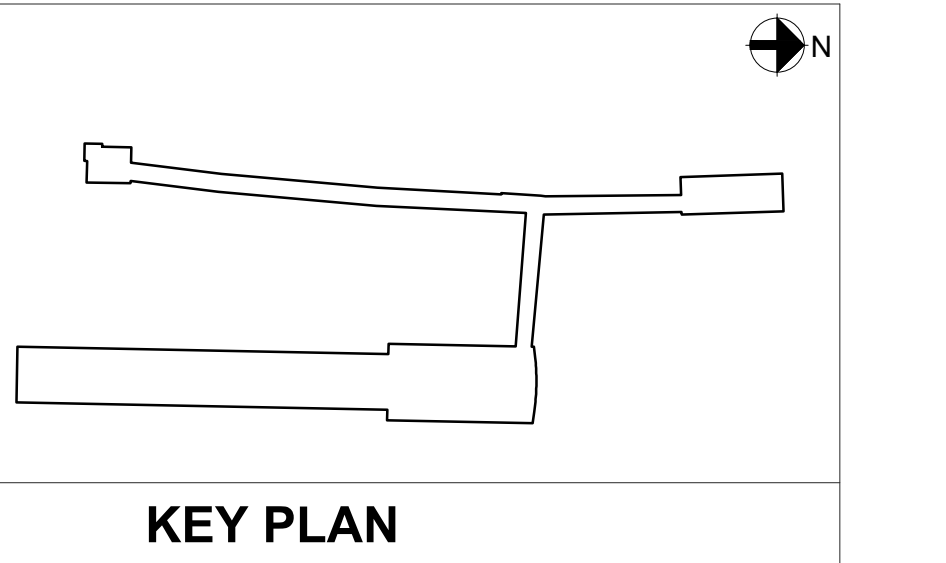
DEPARTMENT OF TRANSPORTATION & ENVIRONMENTAL SERVICES
SITE PLAN NO. _____

DIRECTOR _____ DATE _____

CHAIRMAN, PLANNING COMMISSION _____ DATE _____

DATE RECORDED _____

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



PROFESSIONAL CERTIFICATION:
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF VIRGINIA.

LICENSE NO. _____
EXPIRATION DATE: _____

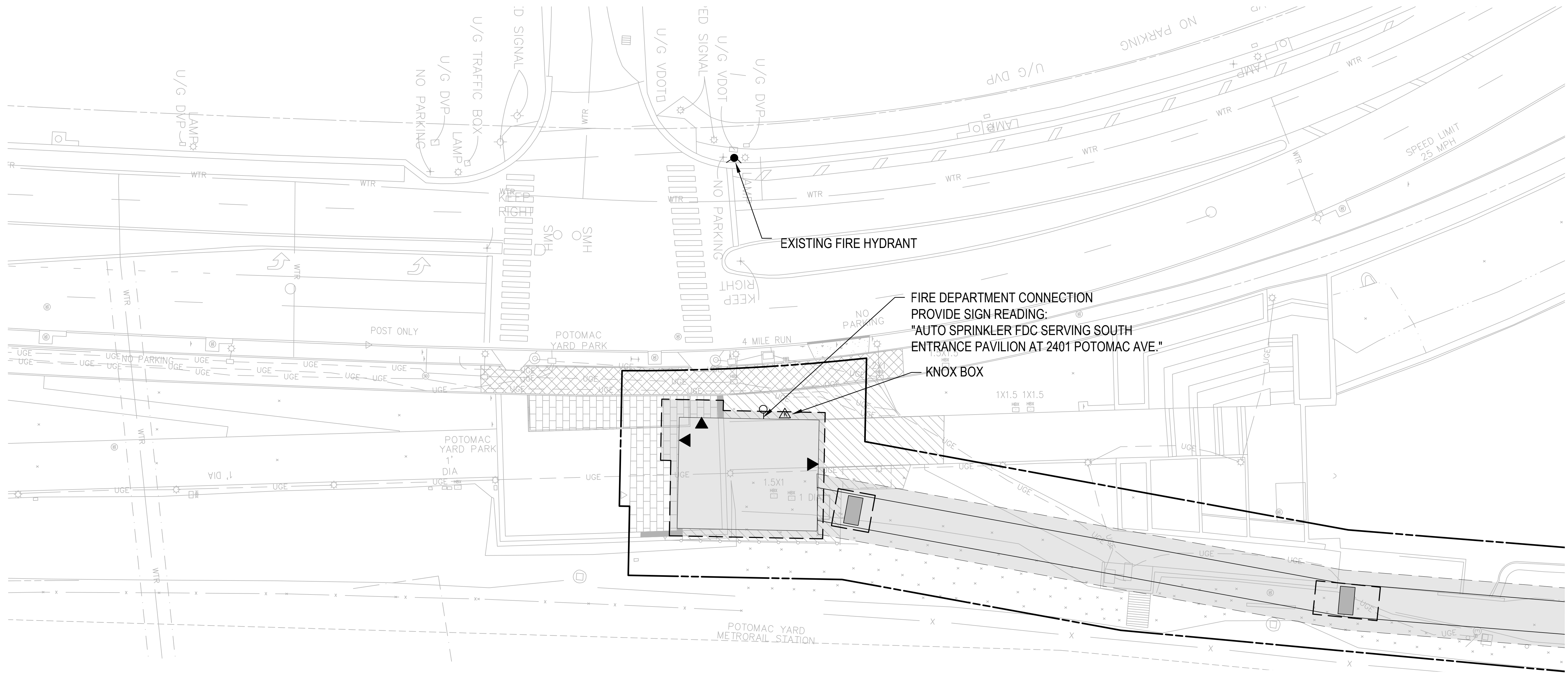
			REFERENCE DRAWINGS		REVISIONS	
			NUMBER	DESCRIPTION	DATE	DESCRIPTION
DESIGNED	MSP	09/09/2020			DATE	
DRAWN	AW	09/09/2020			10/07/2020	FSP #2
CHECKED	JD	09/09/2020				
APPROVED	TW	09/09/2020				

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY	
DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES	
OFFICE OF THE CHIEF ENGINEER, INFRASTRUCTURE	
SUBMITTED	DATE
APPROVED	DATE
DIRECTOR	DATE



POTOMAC YARD METRORAIL STATION SOUTH PAVILION, BRIDGE SPAN, AND KNUCKLE EGRESS STAIR FINAL SITE PLAN EROSION AND SEDIMENT CONTROL DETAILS - SHEET 2 OF 2				
M NO.	CONTRACT NO.	SCALE:	DRAWING NO.	SHEET NO.
M1316	FQ16146	AS SHOWN	C-174	37 OF 60

9/17/2019 3:00 PM
FILE PATH: C:\TEMP\UAS_TASK_62



ARCHAEOLOGY NOTES:

- 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.
- THE APPLICANT SHALL CALL ALEXANDRIA ARCHAEOLOGY IMMEDIATELY (703-838-4399) IF ANY BURIED STRUCTURAL REMAINS (WALL FOUNDATIONS, WELLS, PRIVIES, CISTERNS, ETC.) OR CONCENTRATIONS OF ARTIFACTS ARE DISCOVERED DURING DEVELOPMENT. WORK MUST CEASE IN THE AREA OF THE DISCOVERY UNTIL A CITY ARCHAEOLOGIST COMES TO THE SITE AND RECORDS THE FINDS.
- THE 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.

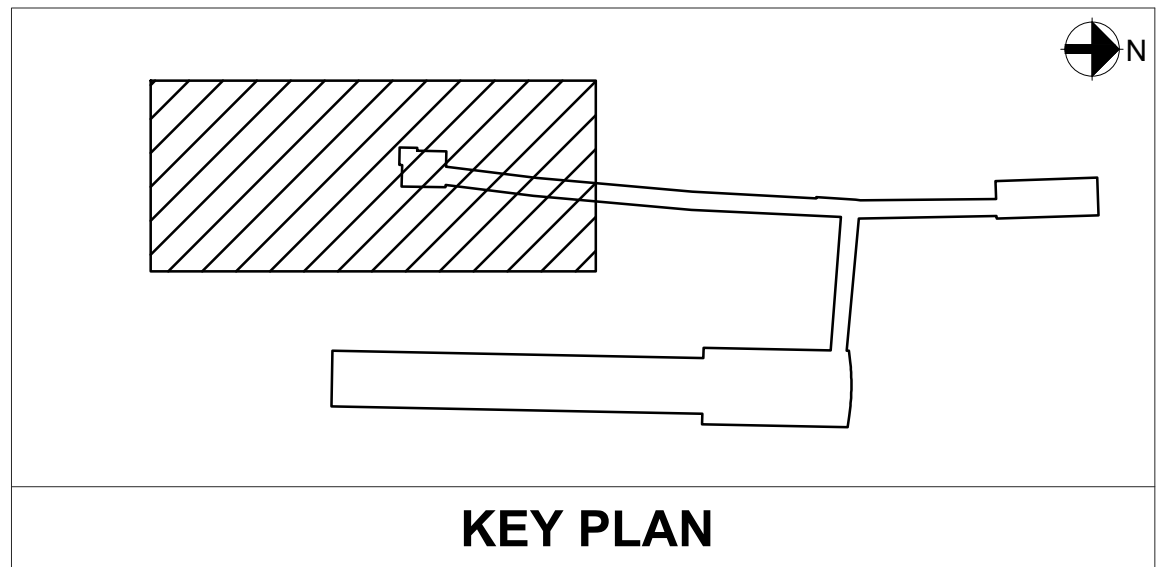
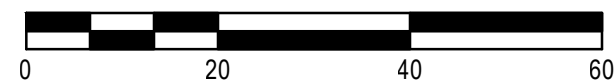
FIRE SAFETY NOTE:

- KNOX BOX SIZES, NUMBER OF KNOX BOXES, NUMBER OF KEY SETS, AND REQUIRED KEYS OR ACCESS DEVICES SHALL BE DETERMINED BY ALEXANDRIA FIRE DEPARTMENT PERSONNEL.

FIRE SAFETY LEGEND:

- KNOX "KEY" BOX
- 4 INCH STORZ FIRE DEPARTMENT CONNECTION (FDC)

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. _____



WMATA LDP
COORDINATE
SYSTEM



PROFESSIONAL CERTIFICATION:
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF VIRGINIA.

LICENSE NO. _____
EXPIRATION DATE: _____

DESIGNED			REFERENCE DRAWINGS				REVISIONS		
DESIGNED	MSP	09/09/2020	NUMBER	DESCRIPTION	DATE	NUM	DESCRIPTION		
DRAWN	AW	09/09/2020			10/07/2020	1	FSP #2		
CHECKED	JD	09/09/2020							
APPROVED	TW	09/09/2020							

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES
OFFICE OF THE CHIEF ENGINEER, INFRASTRUCTURE

SUBMITTED _____ DATE _____
APPROVED _____ DATE _____
DIRECTOR _____



ARUP

POTOMAC YARD METRO RAIL STATION
SOUTH PAVILION, BRIDGE SPAN, AND KNUCKLE EGRESS STAIR
FINAL SITE PLAN
FIRE SERVICE PLAN

M NO.	CONTRACT NO.	SCALE:	DRAWING NO.	SHEET NO.
M1316	FQ16146	1" = 20'	F-101	38 OF 60

9/18/2019 8:36 AM
FILE PATH: C:\TEMP\JAS_TASK_62

		ARCHAEOLOGY NOTES:
NOTE:		
1) REFER TO DRAWING G-003 FOR LEGEND AND ABBREVIATIONS.		1. 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.
		2. THE APPLICANT SHALL CALL ALEXANDRIA ARCHAEOLOGY IMMEDIATELY (703-838-4399) IF ANY BURIED STRUCTURAL REMAINS (WALL FOUNDATIONS, WELLS, PRIVIES, CISTERNS, ETC.) OR CONCENTRATIONS OF ARTIFACTS ARE DISCOVERED DURING DEVELOPMENT. WORK MUST CEASE IN THE AREA OF THE DISCOVERY UNTIL A CITY ARCHAEOLOGIST COMES TO THE SITE AND RECORDS THE FINDS.
		3. 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.

	DESIGNED	MSP	09/09/2020	REFERENCE DRAWINGS		REVISIONS	
				NUMBER	DESCRIPTION	DATE	NUM DESCRIPTION
	DRAWN	AW	09/09/2020			10/07/2020	1 FSP #2
	CHECKED	JD	09/09/2020				
	APPROVED	TW	09/09/2020				

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES
OFFICE OF THE CHIEF ENGINEER, INFRASTRUCTURE

SUBMITTED	DATE
APPROVED	DATE
DIRECTOR	DATE



ARUP

POTOMAC YARD METRORAIL STATION
SOUTH PAVILION, BRIDGE SPAN, AND KNUCKLE EGRESS STAIR
FINAL SITE PLAN

OVERALL LIGHTING SITE PLAN

M NO.	CONTRACT NO.	SCALE:	DRAWING NO.	SHEET NO.
M1316	FQ16146	1" = 60'	LI -101	39 OF 60

LED recessed ceiling downlights - very wide beam

Application
LED recessed ceiling luminaire with very wide beam light distribution designed for downlighting atriums, canopies, passages and other interior and exterior locations.

Materials
Luminaire housing and fascicle constructed of die-cast marine grade 6061-T6 aluminum alloy.
Clear safety glass.
Stainless steel extruding fins.
Reflector surface made of pure anodized aluminum.
High temperature silicone gasket.
Stainless steel screw clamps.
Gasketed extrude rough-in ceiling pan with through wiring box.
Protection class IP65.
Weight: 2.2 lbs.

Electrical
Operating voltage: 120-277V AC
Minimum start temperature: -20°C
LED module wattage: 8.3W
System wattage: 9.7W
Control: 0-10V dimming down to 0.1%
Color rendering index: Ra > 80
Luminaire lifetime: 1,150,000 hours (L70)
Lifetime at Ta=15°C: >200,000 h (L70)
Lifetime at Ta=40°C: 270,000 h (L70)

LED color temperature
□ 4000K - Product number = **K4**
□ 3000K - Product number = **K3S**
□ 3000K - Product number = **K3**
□ 2700K - Product number = **K27**
BEGA can supply you with suitable LED replacement modules for up to 20 years after the purchase of LED luminaires - see website for details.

Finish
All BEGA standard finishes are matte, textured polyester powder coat with minimum 3 mil thickness.
Available colors: □ Black (BLK) □ White (WHT) □RAL: □ Bronze (BRZ) □ Silver (SLV) □ CUS.

BEGA 1000 BEGA Way, Carpinteria, CA 93013 (805) 684-5533 info@bega-us.com
© 2019 BEGA USA, Inc. All rights reserved. BEGA is a registered trademark of BEGA USA, Inc. BEGA is a registered trademark of BEGA USA, Inc. BEGA is a registered trademark of BEGA USA, Inc.

LIGHT FIXTURE AD-3

LED wall luminaire - light output on one side

Application
This LED wall mounted luminaire has light output in one direction. Arranged individually or in groups, it is a great design element for a host of lighting applications. Downward orientation only.

Materials
Luminaire housing and constructed of die-cast marine grade, copper free 6061-T6 aluminum alloy.
Clear safety glass.
High temperature silicone gasket.
Mechanically captive stainless steel fasteners.
Protection class IP65.
Weight: 4.2 lbs.

Electrical
Operating voltage: 120-277V AC
Minimum start temperature: -20°C
LED module wattage: 15.4W
System wattage: 20.5W
Control: 0-10V, TRIAC, and ELV dimmable
Color rendering index: Ra > 80
Luminaire lifetime: 1,150,000 hours (L70)
LED service life (L70): 80,000 hours

LED color temperature
□ 4000K - Product number = **K4**
□ 3000K - Product number = **K3S**
□ 3000K - Product number = **K3 EXPRESS**
□ 2700K - Product number = **K27**
□ Amber - Product number = **AMB**

Wildlife friendly amber LED - Optional
Luminaire is optionally available with a narrow bandwidth, amber LED source (580-650nm) approved by the FWC. This light output is suggested for use within close proximity for sea turtle nesting and feeding habitats. Electrical and control information may vary from standard luminaires.

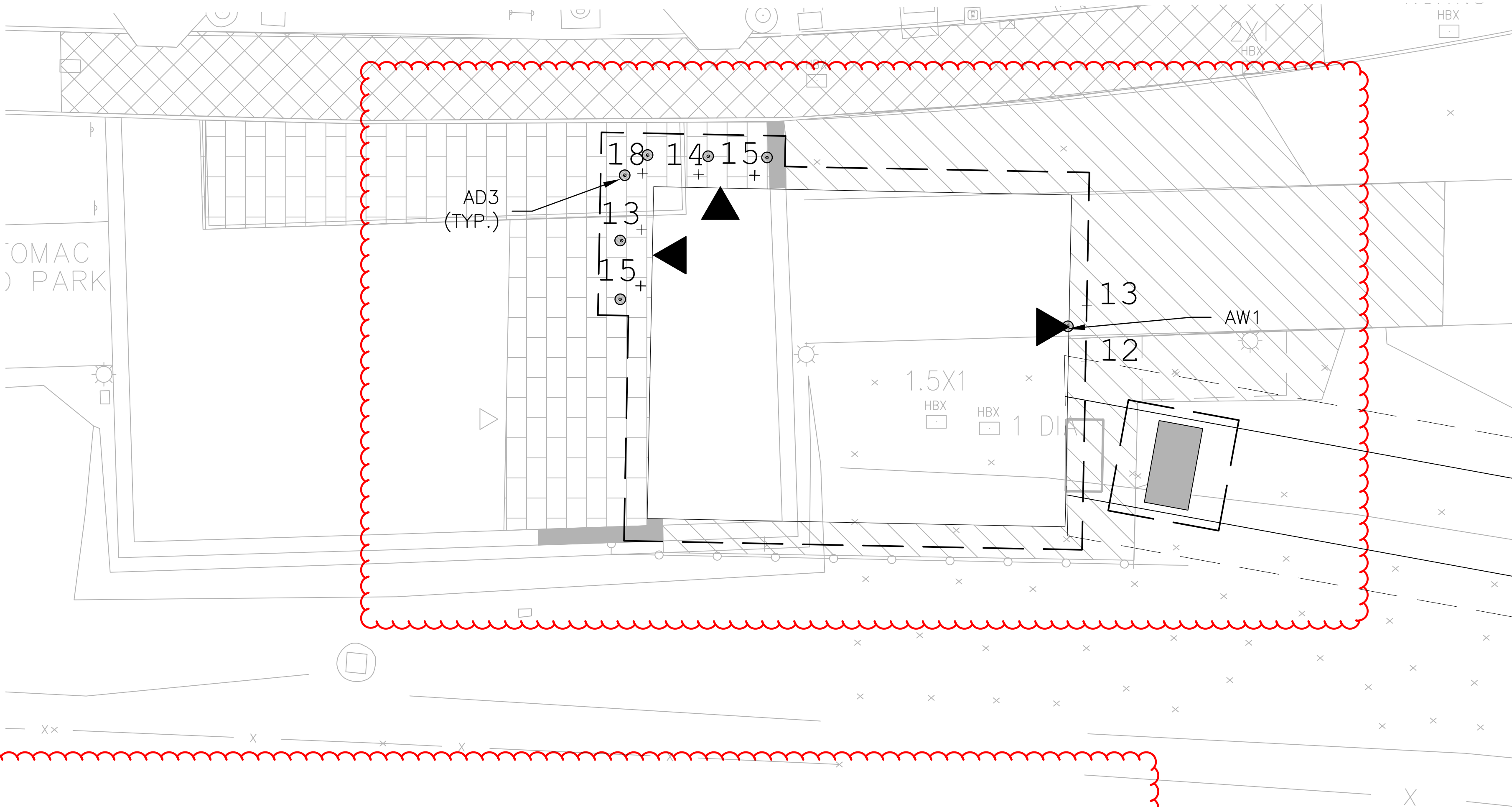
LED module wattage: 15.4W (amber)
Luminaire lifetime: 80,000 hours (amber)

BEGA can supply you with suitable LED replacement modules for up to 20 years after the purchase of LED luminaires - see website for details.

Finish
All BEGA standard finishes are matte, textured polyester powder coat with minimum 3 mil thickness.
Available colors: □ Black (BLK) □ White (WHT) □RAL: □ Bronze (BRZ) □ Silver (SLV) □ CUS.

BEGA 1000 BEGA Way, Carpinteria, CA 93013 (805) 684-5533 info@bega-us.com
© 2019 BEGA USA, Inc. All rights reserved. BEGA is a registered trademark of BEGA USA, Inc. BEGA is a registered trademark of BEGA USA, Inc. BEGA is a registered trademark of BEGA USA, Inc.

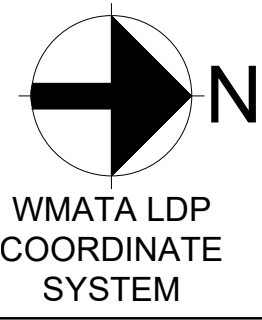
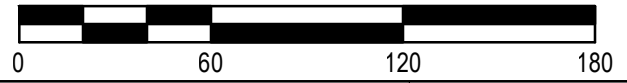
LIGHT FIXTURE AW-1



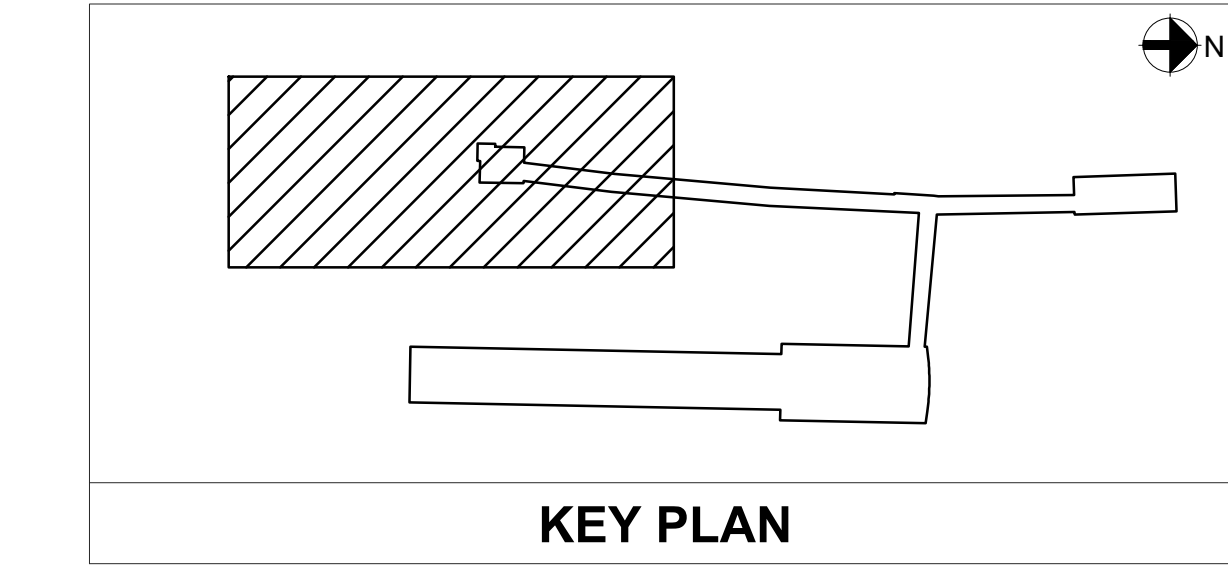
LIGHT FIXTURE INFORMATION:

FIXTURE NAME	DESCRIPTION	MOUNTING HEIGHT	FIXTURE STRENGTH
AD3	RECESSED DOWNLIGHT	11.5 FT	8W, 1181 lm
AW1	WALL-MOUNTED DOWNLIGHT	10.5 FT	21W, 1024 lm

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. _____



WMATA LDP
COORDINATE
SYSTEM



KEY PLAN



PROFESSIONAL CERTIFICATION:
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF VIRGINIA.

LICENSE NO.
EXPIRATION DATE:

3/26/2019 10:09 AM FILE PATH: P:\POTOMAC YARD METRO STATION DB PRE-DESIGN PHASE 469017F CAD FSP SPAV

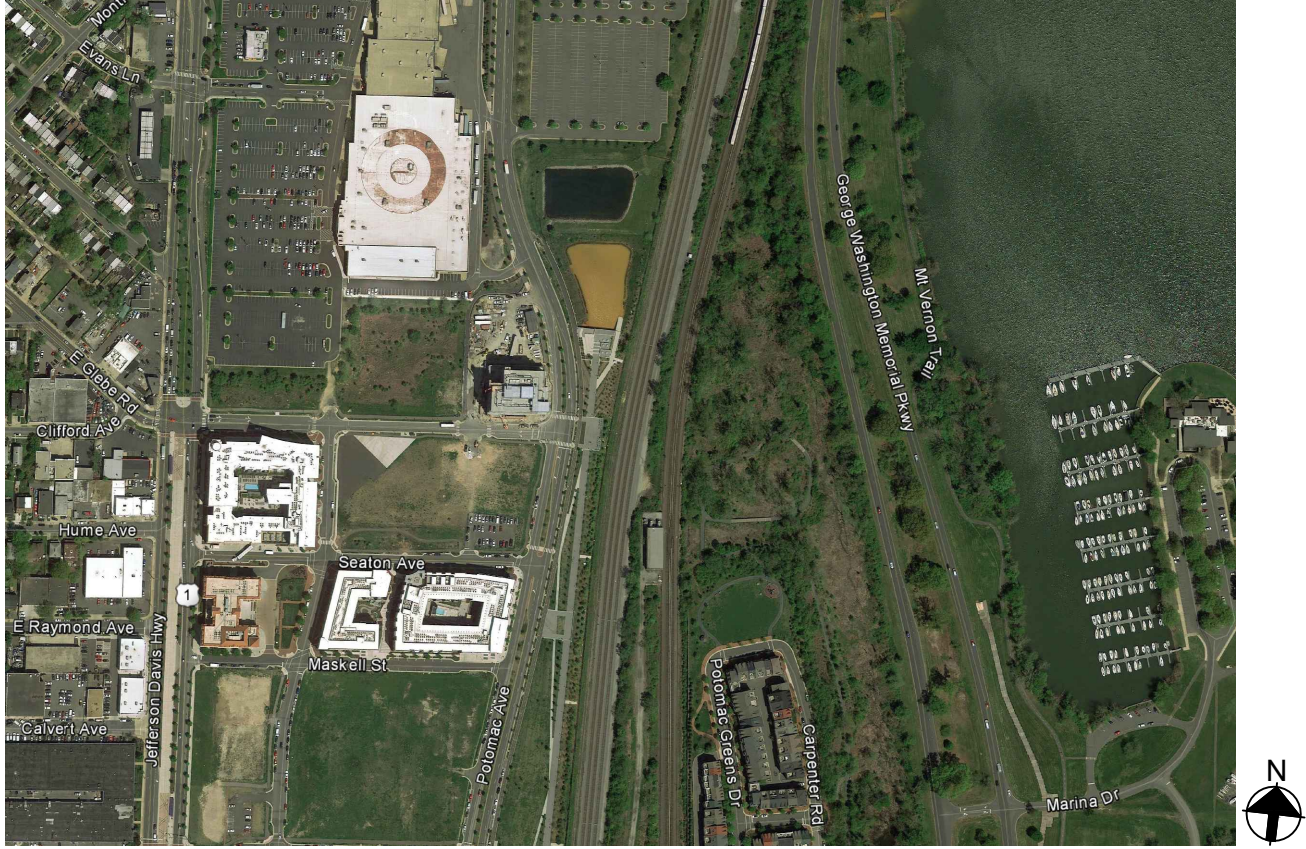
GENERAL NOTES (CITY OF ALEXANDRIA):

- ALL PROTECTION AND PRESERVATION MEASURES FOR EXISTING VEGETATION, INCLUDING MAINTENANCE SHALL BE APPROVED BY THE CITY ARBORIST IN-FIELD PRIOR TO COMMENCEMENT OF ANY SITE DISTURBING ACTIVITY. SPECIFICATION FOR ALL PLANTINGS SHALL BE IN ACCORDANCE WITH THE CURRENT AND MOST UP TO DATE EDITION OF ANSI-Z60.1, THE AMERICAN STANDARD FOR NURSERY STOCK AS PRODUCED BY THE AMERICAN ASSOCIATION OF NURSERYMEN; WASHINGTON, DC.
- THE APPLICANT HAS MADE SUITABLE ARRANGEMENTS FOR PRE-SELECTION TAGGING, PRE-CONTRACT GROWING, OR IS UNDERTAKING SPECIALIZED PLANTING STOCK DEVELOPMENT WITH A NURSERY OR GROWER THAT IS CONVENIENTLY LOCATED TO THE PROJECT SITE, OTHER PROCEDURES THAT WILL ENSURE AVAILABILITY OF SPECIFIED MATERIALS. IN THE EVENT THAT SHORTAGES AND/OR INABILITY TO OBTAIN SPECIFIED PLANTINGS OCCURS, REMEDIAL EFFORTS INCLUDING SPECIES CHANGES, ADDITIONAL PLANTINGS AND MODIFICATION TO THE LANDSCAPE PLAN SHALL BE UNDERTAKEN BY THE APPLICANT. ALL REMEDIAL EFFORTS SHALL, WITH PRIOR APPROVAL BY THE CITY, BE PERFORMED TO THE SATISFACTION OF THE DIRECTORS OF PLANNING & ZONING, RECREATION, PARKS & CULTURAL ACTIVITIES AND TRANSPORTATION & ENVIRONMENTAL SERVICES.
- IN LIEU OF MORE STRENUOUS SPECIFICATIONS, ALL LANDSCAPE RELATED WORK SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE CURRENT AND MOST UP-TO-DATE EDITION (AT TIME OF CONSTRUCTION) OF LANDSCAPE SPECIFICATION GUIDELINES AS PRODUCED BY THE LANDSCAPE CONTRACTORS ASSOCIATION OF MARYLAND, DISTRICT OF COLUMBIA AND VIRGINIA; GAITHERSBURG, MARYLAND.
- PRIOR TO COMMENCEMENT OF LANDSCAPE INSTALLATION/PLANTING OPERATIONS, A PRE-INSTALLATION/CONSTRUCTION MEETING WILL BE SCHEDULED WITH THE CITY'S ARBORIST AND LANDSCAPE ARCHITECTS TO REVIEW THE SCOPE OF INSTALLATION PROCEDURES AND PROCESSES.
- MAINTENANCE FOR THIS PROJECT SHALL BE PERFORMED IN PERPETUITY, IN COMPLIANCE WITH CITY OF ALEXANDRIA LANDSCAPE GUIDELINES AND/OR AS CONDITIONED BY PROJECT APPROVAL.
- A CERTIFICATION LETTER FOR TREE WELLS, TREE TRENCHES AND PLANTINGS ABOVE STRUCTURE SHALL BE PROVIDED BY THE PROJECT'S LANDSCAPE ARCHITECT. THE LETTER SHALL CERTIFY THAT ALL BELOW GRADE CONSTRUCTION IS IN COMPLIANCE WITH APPROVED DRAWINGS AND SPECIFICATIONS. THE LETTER SHALL BE SUBMITTED TO THE CITY ARBORIST AND APPROVED PRIOR TO APPROVAL OF THE LAST AND FINAL CERTIFICATE OF OCCUPANCY FOR THE PROJECT. THE LETTER SHALL BE SUBMITTED BY THE OWNER/APPLICANT/SUCCESSOR AND SEALED AND DATED AS APPROVED BY THE PROJECT'S LANDSCAPE ARCHITECT.
- AS-BUILT DRAWINGS FOR THIS LANDSCAPE AND/OR IRRIGATION/WATER MANAGEMENT SYSTEM WILL BE PROVIDED IN COMPLIANCE WITH CITY OF ALEXANDRIA LANDSCAPE GUIDELINES. AS-BUILT DRAWINGS SHALL INCLUDE CLEAR IDENTIFICATION OF ALL VARIATION(S) AND CHANGES FROM APPROVED DRAWINGS INCLUDING LOCATION, QUANTITY AND SPECIFICATION OF ALL PROJECT ELEMENTS.
- THE APPLICANT/DEVELOPER SHALL CALL ALEXANDRIA ARCHAEOLOGY IMMEDIATELY (703-746-4399) IF ANY BURIED STRUCTURAL REMAINS (WALL FOUNDATIONS, WELLS, PRIVIES, CISTERNS, ETC.) OR CONCENTRATIONS OF ARTIFACTS ARE DISCOVERED DURING DEVELOPMENT. WORK MUST CEASE IN THE AREA OF THE DISCOVERY UNTIL A CITY ARCHAEOLOGIST COMES TO THE SITE AND RECORDS THE FINDS.
- THE APPLICANT/DEVELOPER SHALL NOT ALLOW ANY METAL DETECTION TO BE CONDUCTED ON THE PROPERTY, UNLESS AUTHORIZED BY ALEXANDRIA ARCHAEOLOGY.

GENERAL NOTES:

- THE DRAWINGS AND SPECIFICATIONS, TAKEN TOGETHER, DESCRIBE THE DESIGN FOR THIS PROJECT. THE DRAWINGS AND SPECIFICATIONS ARE MEANT TO BE COMPLIMENTARY TO EACH OTHER.
- THAT WHICH IS SHOWN ON THE DRAWINGS BUT NOT IN THE SPECIFICATIONS, OR SHOWN IN THE SPECIFICATIONS BUT NOT ON THE DRAWINGS, SHALL BE PROVIDED AS IF SHOWN IN BOTH PLACES AND TO THE SAME STANDARD OF QUALITY FOR SIMILAR ITEMS.
- DRAWINGS SHOW EXTENT, LOCATION, DIMENSIONS, RELATIONSHIPS AMONG VARIOUS PART, AND QUANTITY OF ITEMS. IN CASE OF CONFLICT WITH THE SPECIFICATIONS IN THESE MATTERS, THE DRAWINGS SHALL GOVERN.
- SPECIFICATIONS SHOW QUALITY, TRADE NAME, GENERIC NAMES, AND WORKMANSHIP. IN CASE OF CONFLICT WITH THE DRAWINGS IN THESE MATTERS, THE SPECIFICATIONS SHALL GOVERN.
- THE LARGER THE SCALE OF THE DRAWINGS, THE MORE PRECEDENCE: i.e. A 1 INCH PER FOOT SCALE DRAWING GOVERNS OVER A 10 FEET PER INCH DRAWING.
- CONTRACTOR SHALL PROTECT FROM ALL DAMAGE EXISTING TREES TO REMAIN AND THEIR ROOT STRUCTURES.
- CONTRACT INCLUDES ALL DEMOLITION REQUIRED TO COMPLETE JOB AND TO REMOVE AND TO DISPOSE OF ITEMS FROM SITE COMPLETELY IN ACCORDANCE WITH LOCAL LAWS. DO NOT BURN OR BURY ANY DEMOLITION ITEMS ON SITE.
- UTILITIES SHOWN ON DRAWINGS ARE BASED ON PUBLISHED DATA AND ARE FOR CONTRACTOR'S CONVENIENCE ONLY. THE CONTRACTOR MUST LOCATE AND VERIFY ALL SUCH INFORMATION, INCLUDING INFORMATION NOT SHOWN ON PLANS, BY CONTACTING THE INDIVIDUAL UTILITY COMPANY AND INVESTIGATING THE SITE TO DETERMINE THE EXACT LOCATION OF RESPECTIVE UTILITY LINES AND STRUCTURES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING, AT HIS OWN EXPENSE, AND TO THE SATISFACTION OF THE PROJECT OWNER & THE UTILITY OWNER, DAMAGE TO ANY UTILITY CAUSED BY HIS WORK. HE SHALL IMMEDIATELY NOTIFY THE OWNER AND THE UTILITY OWNER OF ANY DAMAGE TO ANY UTILITY BY REASON OF HIS OPERATION.
- BEFORE BEGINNING ANY EXCAVATION, THE CONTRACTOR SHALL CONTACT MISS UTILITY AT LEAST 3 WORKING DAYS PRIOR TO STARTING WORK SO THAT THEY CAN ARRANGE TO MARK THE HORIZONTAL LOCATION OF UNDERGROUND FACILITIES.
- DO NOT SCALE DRAWINGS. CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AT THE JOB SITE PRIOR TO VERTICAL AND HORIZONTAL START OF CONSTRUCTION. IF DISCREPANCIES ARE FOUND, NOTIFY THE LANDSCAPE ARCHITECT IMMEDIATELY FOR CLARIFICATION.
- IN AREAS OF FORMER PAVED SURFACES (ROADBEDS, WALKWAYS, ETC.), REMOVE ALL EXISTING PAVING MATERIAL, INCLUDING BASE MATERIALS. EXCAVATE EXISTING SUBGRADE TO A TOTAL DEPTH OF 18" BELOW FINISHED GRADE. SCARIFY BOTTOM OF EXCAVATION TO A DEPTH OF 4". IF FINISHED GRADE IS GREATER THAN 14" ABOVE EXISTING SUBGRADE, SCARIFY EXISTING SUBGRADE TO MINIMUM DEPTH OF 4". FILL AREA WITH APPROVED EARTH FILL TO A TOTAL DEPTH OF 4" BELOW FINISHED GRADE. PLACE SOIL IN MAXIMUM 8" LIFTS, AND COMPACT EACH LIFT TO MINIMUM 50%, MAXIMUM 75% DENSITY. SPREAD TOPSOIL OVER ENTIRE DISTURBED AREA TO DEPTH OF 4". LIGHTLY COMPACT TOPSOIL. BLEND EDGES OF TOPSOIL TO MATCH GRADES OF ADJACENT EXISTING OR PROPOSED CONDITIONS.
- POSITIVE DRAINAGE SHALL BE MAINTAINED DURING ALL PHASES OF CONSTRUCTION. PONDING OR STANDING WATER WILL NOT BE PERMITTED.
- CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT OF ANY DEVIATION FROM THIS PLAN PRIOR TO ANY CHANGE BEING MADE. ANY DEVIATION FROM THIS PLAN WITHOUT WRITTEN AUTHORIZATION FROM THE PROJECT REPRESENTATIVE WILL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

SITE AREA/VICINITY:



LEGEND

- PROPERTY LINE
- PERMANENT LIMIT OF DEVELOPMENT
- LOD — LIMIT OF DEVELOPMENT

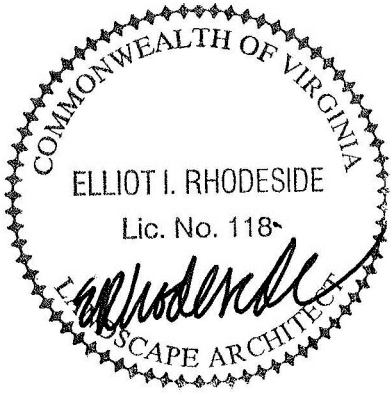
PLANT LEGEND

- + PROPOSED TREE
- SHRUB AND GROUND COVER AREAS

TREE PRESERVATION LEGEND

- EXISTING TREE
- EXISTING TREE TO BE REMOVED
- EXISTING TREE TO BE REPLACED
- TREE PROTECTION FENCE

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. _____



PROFESSIONAL CERTIFICATION:
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A FULLY LICENSED PROFESSIONAL LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF VIRGINIA.

LICENSE NO.: 118
EXPIRATION DATE: 1/31/2021

			REFERENCE DRAWINGS		REVISIONS		
			NUMBER	DESCRIPTION	DATE	NUM	DESCRIPTION
DESIGNED	ER/DT/JF	09/09/2020			10/07/2020	1	FSP #2
DRAWN	JF	09/09/2020					
CHECKED	DT	09/09/2020					
APPROVED	DT	09/09/2020					

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES
OFFICE OF THE CHIEF ENGINEER, INFRASTRUCTURE

SUBMITTED	DATE
APPROVED	DATE
DIRECTOR	DATE

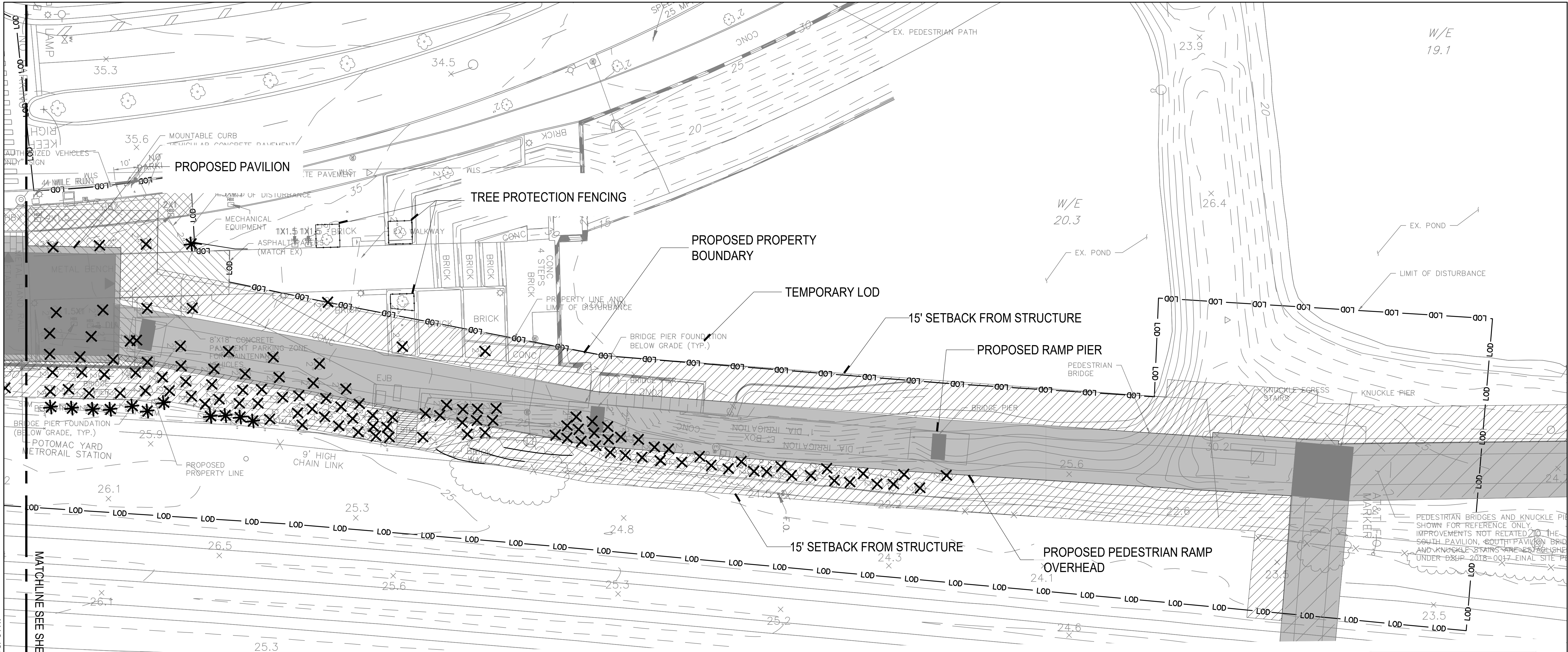


ARUP

POTOMAC YARD METRORAIL STATION
LANDSCAPE
SITE LANDSCAPE
GENERAL LANDSCAPE NOTES

M NO.	CONTRACT NO.	SCALE:	DRAWING NO.	SHEET NO.
M1316	FQ16146		L-001	40 OF 60

8/28/2020 4:43 PM
FILE PATH: P:\POTOMAC YARD METRO STATION DB PRE-DESIGN PHASE 469017E CAD FSP S PAV



ALEXANDRIA, VA ARCHAEOLOGY NOTES:

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

EXISTING TREE COUNTS	
CATEGORY	COUNT
TOTAL EXISTING TREES WITHIN TEMP LOD	221
TREES UNDER STRUCTURES	42
TREES WITHIN 15' SETBACK	79
TREES TO BE REPLACED OUTSIDE 15' SETBACK	100
	221

TREE PRESERVATION AND REMOVAL PLAN GENERAL NOTES:

1. EXISTING SURVEY INDICATES ALL TREES LESS THAN 6" CAL.
2. EXISTING PLANT SPECIES, SIZE, AND CONDITION SHALL BE FIELD VERIFIED DURING FINAL SITE PLAN PREPARATION.
3. THIS PLAN IS BASED ON THE EXISTING TREE SURVEY INCLUDED IN DSUP #2016-0006, DATED APRIL 29, 2016 AND AS-BUILT DRAWINGS OF DSUP #2010-0012, AMENDED APRIL 21, 2001 AND MARCH 14, 2014.
4. REFER TO AS-BUILT DRAWINGS PROVIDED ON SHEETS L-111 AND L-112 FOR SPECIES IDENTIFICATION.

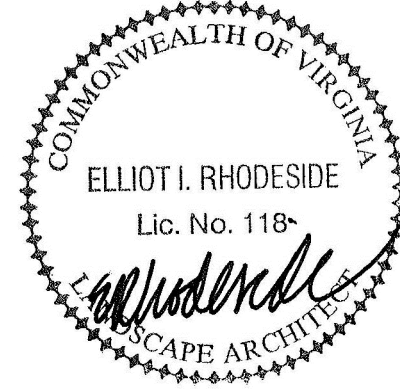
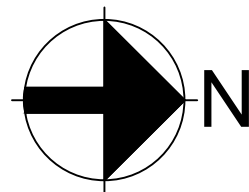
TREE COUNT NOTES:

1. EXISTING TREES WITHIN LIMITS OF NEW STRUCTURES (PAVILION, RAMP) ARE NOT REQUIRED TO BE REPLACED.
2. 15 FOOT SETBACK FROM STRUCTURES TO REMAIN CLEAR OF TREES FOR MAINTENANCE.

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. _____	

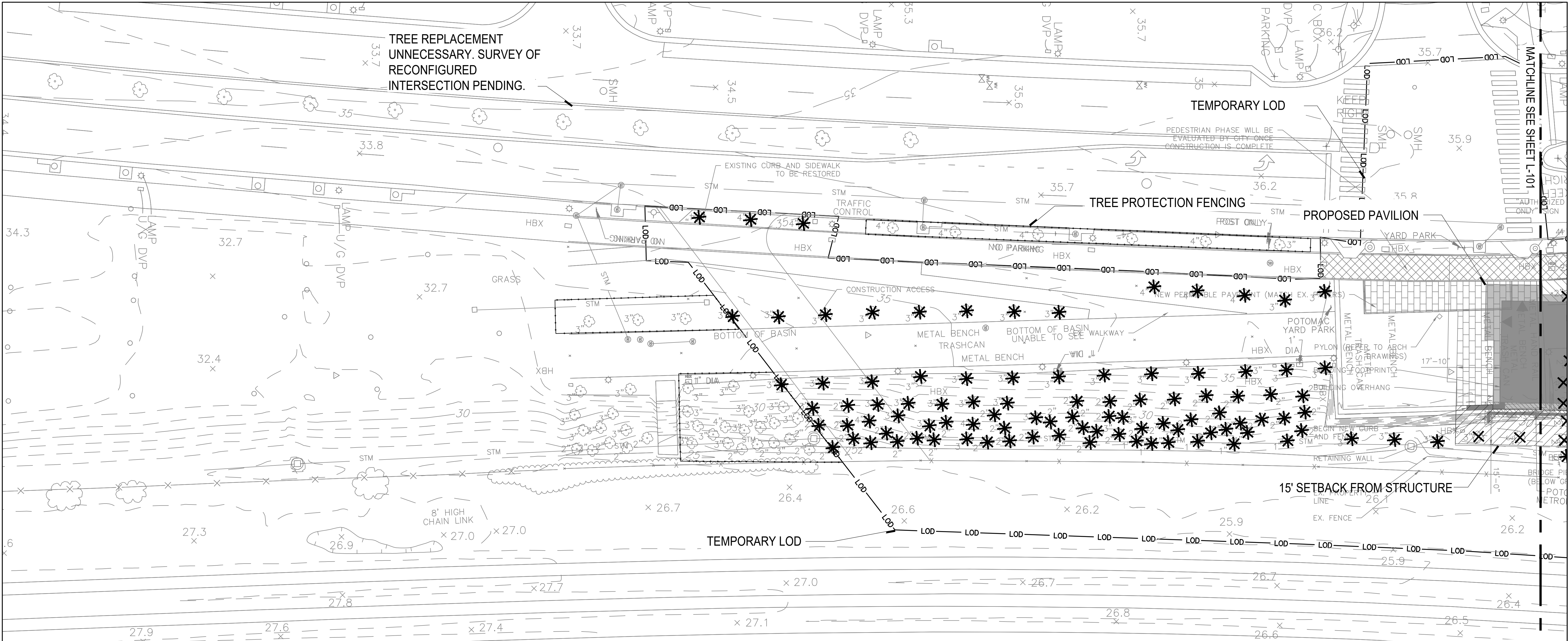
PROFESSIONAL CERTIFICATION:
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A FULLY LICENSED PROFESSIONAL LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF VIRGINIA.

LICENSE NO.: 118
EXPIRATION DATE: 1/31/2021



DESIGNED ER/DT/JF 09/09/2020			REFERENCE DRAWINGS			REVISIONS			WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY			POTOMAC YARD METRORAIL STATION		
DRAWN JF 09/09/2020			NUMBER DESCRIPTION			DATE NUM DESCRIPTION			DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES			LANDSCAPE		
CHECKED DT 09/09/2020									OFFICE OF THE CHIEF ENGINEER, INFRASTRUCTURE			SOUTH PAVILION		
APPROVED DT 09/09/2020									SUBMITTED _____ DATE _____			TREE PRESERVATION AND REMOVAL PLAN 1 OF 2		
									APPROVED _____ DATE _____			M NO. M1316		
									POTOMAC YARD CONSTRUCTORS A JOINT VENTURE			CONTRACT NO. FQ16146		
									ARUP			SCALE: 1" = 20'		
												DRAWING NO. L-101		
												SHEET NO. 41 OF 60		

8/28/2020 4:57 PM
FILE PATH: P:\POTOMAC YARD METRO STATION DB PRE-DESIGN PHASE 469017F CAD FSP S PAV



ALEXANDRIA, VA ARCHAEOLOGY NOTES:

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

EXISTING TREE COUNTS	
CATEGORY	COUNT
TOTAL EXISTING TREES WITHIN TEMP LOD	221
TREES UNDER STRUCTURES	42
TREES WITHIN 15' SETBACK	79
TREES TO BE REPLACED OUTSIDE 15' SETBACK	100
	221

TREE PRESERVATION AND REMOVAL PLAN GENERAL NOTES:

1. EXISTING SURVEY INDICATES ALL TREES LESS THAN 6" CAL.
2. EXISTING PLANT SPECIES, SIZE, AND CONDITION SHALL BE FIELD VERIFIED DURING FINAL SITE PLAN PREPARATION.
3. THIS PLAN IS BASED ON THE EXISTING TREE SURVEY INCLUDED IN DSUP #2016-0006, DATED APRIL 29, 2016 AND AS-BUILT DRAWINGS OF DSUP #2010-0012, AMENDED APRIL 21, 2001 AND MARCH 14, 2014.
4. REFER TO AS-BUILT DRAWINGS PROVIDED ON SHEETS L-111 AND L-112 FOR SPECIES IDENTIFICATION.

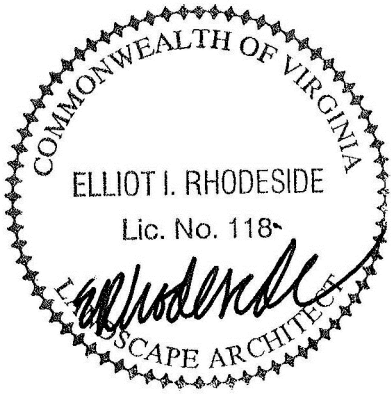
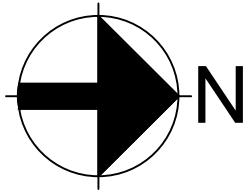
TREE COUNT NOTES:

1. EXISTING TREES WITHIN LIMITS OF NEW STRUCTURES (PAVILION, RAMP) ARE NOT REQUIRED TO BE REPLACED.
2. 15 FOOT SETBACK FROM STRUCTURES TO REMAIN CLEAR OF TREES FOR MAINTENANCE.

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. _____	

PROFESSIONAL CERTIFICATION:
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A FULLY LICENSED PROFESSIONAL LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF VIRGINIA.

LICENSE NO.: 118
EXPIRATION DATE: 1/31/2021

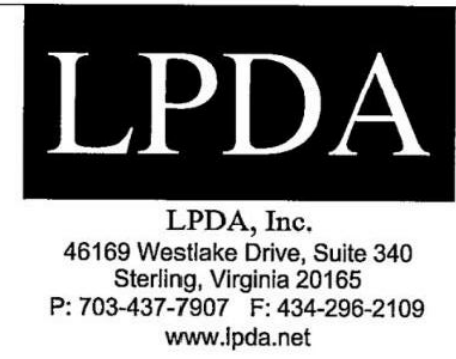


REFERENCE DRAWINGS			REVISIONS		
DESIGNED	ER/DT/JF	09/09/2020	NUMBER	DESCRIPTION	DATE
DRAWN	JF	09/09/2020			
CHECKED	DT	09/09/2020			
APPROVED	DT	09/09/2020			

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY	
DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES	
OFFICE OF THE CHIEF ENGINEER, INFRASTRUCTURE	
SUBMITTED	DATE
APPROVED	DATE
DIRECTOR	



POTOMAC YARD METRORAIL STATION LANDSCAPE SOUTH PAVILION TREE PRESERVATION AND REMOVAL PLAN 2 OF 2				
M NO.	CONTRACT NO.	SCALE:	DRAWING NO.	SHEET NO.
M1316	FQ16146	1" = 20'	L-102	42 OF 60



TREES IN LOD				
As-Built	Symbol	Latin	Common	Count
ACSl		Amelanchier canadensis	Serviceberry	12
ANBsl		Acer negundo	Boxelder	7
ARO		Acer rubrum "October Glory"	October Glory Red Maple	2
ARRSl		Acer rubrum "Red Sunset"	Red Sunset Red Maple	23
CCSl		Cercis canadensis	Eastern Redbud	19
CDD		Cedrus deodora	Deodar Cedar	5
GBO		Ginkgo biloba "Princeton Sentry"	Princeton Sentry Ginko	2
IOAs		Ilex opaca	American Holly	1
IVWsl		Ilex verticillata	Winterberry	19
JVSl		Juniperus virginiana	Eastern Red Cedar	23
NSB		Nyssa sylvatica	Black Gum	21
NSB2		Nyssa sylvatica	Black Gum	2
PAB		Platanus x acerifolia "Columbia"	Columbia Bloodgood Planetree	4
QAWsl		Quercus alba	White Oak	31
QMSsl		Quercus michauxii	Swamp Chestnut Oak	31
QMWst		Quercus phellos	Willow Oak	2
TOESl		Thuja occidentalis	Eastern Arborvitae	8
UAP		Ulmus americana "Princeton"	Princeton Elm	4
				216

ALEXANDRIA, VA ARCHEAOLGY NOTES:

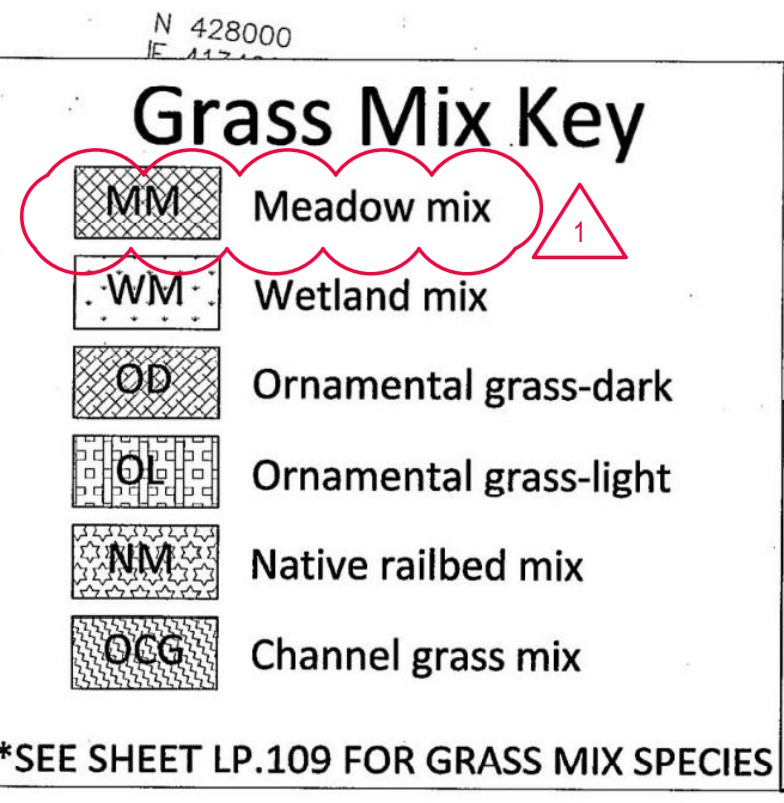
1. THE APPLICANT/DEVELOPER SHALL CALL ALEXANDRIA ARCHEAOLGY IMMEDIATELY (703-746-4399) IF ANY BURIED STRUCTURAL REMAINS (WALL FOUNDATIONS, WELLS, PRIVIES, CISTERNS ETC.) OR CONCENTRATIONS OF ARTIFACTS ARE DISCOVERED DURING DEVELOPMENT. WORK MUST CEASE IN THE AREA OF THE DISCOVERY UNTIL A CITY ARCHEAOLOGIST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

Meadow Mix							
Code	% of Mix	Botanical Name	Common Name	Size Caliper or Height	Crown Coverage Allowance (CCA) sf	Cultivar/Ecotype	Comments
MM	1	Agrostis perennans	Autumn Bentgrass	Seed	NA	PA	Seed; Native
MM	5	Andropogon virginicus	Broomsedge	Seed	NA	MO	Seed; Native
MM	3	Asclepias syriaca	Common Milkweed	Seed	NA	PA	Seed; Native
MM	2	Asclepias tuberosa	Butterfly Milkweed	Seed	NA	Commercial	Seed; Native
MM	3	Aster novae-angliae	New England Aster	Seed	NA	PA	Seed; Native
MM	5	Chamaecrista (Cassia) fasciculata	Partridge Pea	Seed	NA	PA	Seed; Native
MM	10	Elymus virginicus	Virginia Wild Rye	Seed	NA	PA	Seed; Native
MM	2	Eragrostis spectabilis	Purple Lovegrass	Seed	NA	VA	Seed; Native
MM	2	Eupatorium coelestinum	Mistflower	Seed	NA	VA	Seed; Native
MM	5	Utricularia graminifolia	Grass Leaved Blazing Star	Seed	NA	Commercial	Seed; Native
MM	2	Monarda fistulosa	Wild Bergamot	Seed	NA	NC	Seed; Native
MM	6	Parthenoclinis encypha	Boxed Knapweed	Seed	NA	NC	Seed; Native
MM	7	Penstemon digitalis	Tall White Beardtongue	Seed	NA	PA	Seed; Native
MM	5	Rudbeckia hirta	Black-eyed Susan	Seed	NA	PA	Seed; Native
MM	20	Schizachyrium scoparium	Little Bluestem	Seed	NA	PA	Seed; Native
MM	2	Solidago juncea	Early Goldenrod	Seed	NA	PA	Seed; Native
MM	1	Solidago nemoralis	Gray Goldenrod	Seed	NA	PA	Seed; Native
MM	10	Sorghastrum nutans	Indiangrass	Seed	NA	VA	Seed; Native
MM	5	Tidens flavus	Purple Top	Seed	NA	VA	Seed; Native
MM	1	Tripsacum dactyloides	Eastern Gama Grass	Seed	NA	Meadowcrest	Seed; Native
	100	Subtotal					

* Seed at 15 bulk pounds/acre on area with less than 3:1 slope, or 20 pounds/acre on areas of 3:1 slope or greater. Add one of the following cover crops to the mix grain oats (January 1 to May 1, 30 pounds/acre), brown top millet (May 1 to September 1).

**If a particular ecotype or cultivar is not available, substitute with a comparable ecotype or cultivar. If a particular species is not available, substitute from within the list or with species native to the Alexandria, VA area.

All substitutions must be approved by project Landscape Architect and Department of RPCA.



APPROVED _____
SPECIAL USE PERMIT NO. _____

DSUP 2008 - 0013
& DSUP 2010 - 0012

DEPARTMENT OF PLANNING & ZONING

DIRECTOR _____ DATE _____

DEPARTMENT OF TRANSPORTATION & ENVIRONMENTAL SERVICES

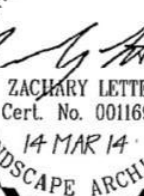
SITE PLAN No. _____

ME *Daly* _____
DIRECTOR DATE 6/10/14

CHAIRMAN, PLANNING COMMISSION _____ DATE _____

DATE RECEIVED _____

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



ZACHARY LETTE
Cert. No. 001689
14 MAR 14
EMANCIPATION ARCHIVES

No. _____	Revision	Date
1.	60% Set Revision	7/20/04
2.	Interim 100% Set Revision	10/28/04
3.	100% Set Revision	12/16/04
4.	Minor Amendment	04/21/01
5.	Minor Amendment	03/22/02
6.	Minor Amendment	02/21/03
7.	Minor Amendment	05/29/03
8.	Minor Amendment	08/08/03
9.	Minor Amendment	03/14/04

Drawn by: AE/AS/OM Checked by: ZL
Scale: 1:30 Date: March 14, 2014

Issued for _____

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



PROFESSIONAL CERTIFICATION:
I HEREBY CERTIFY THAT THESE DOCUMENTS
WERE PREPARED OR APPROVED BY ME, AND
THAT I AM A FULLY LICENSED PROFESSIONAL
LANDSCAPE ARCHITECT UNDER THE LAWS OF
THE STATE OF VIRGINIA.

LICENSE NO.: 118
EXPIRATION DATE: 1/31/2021

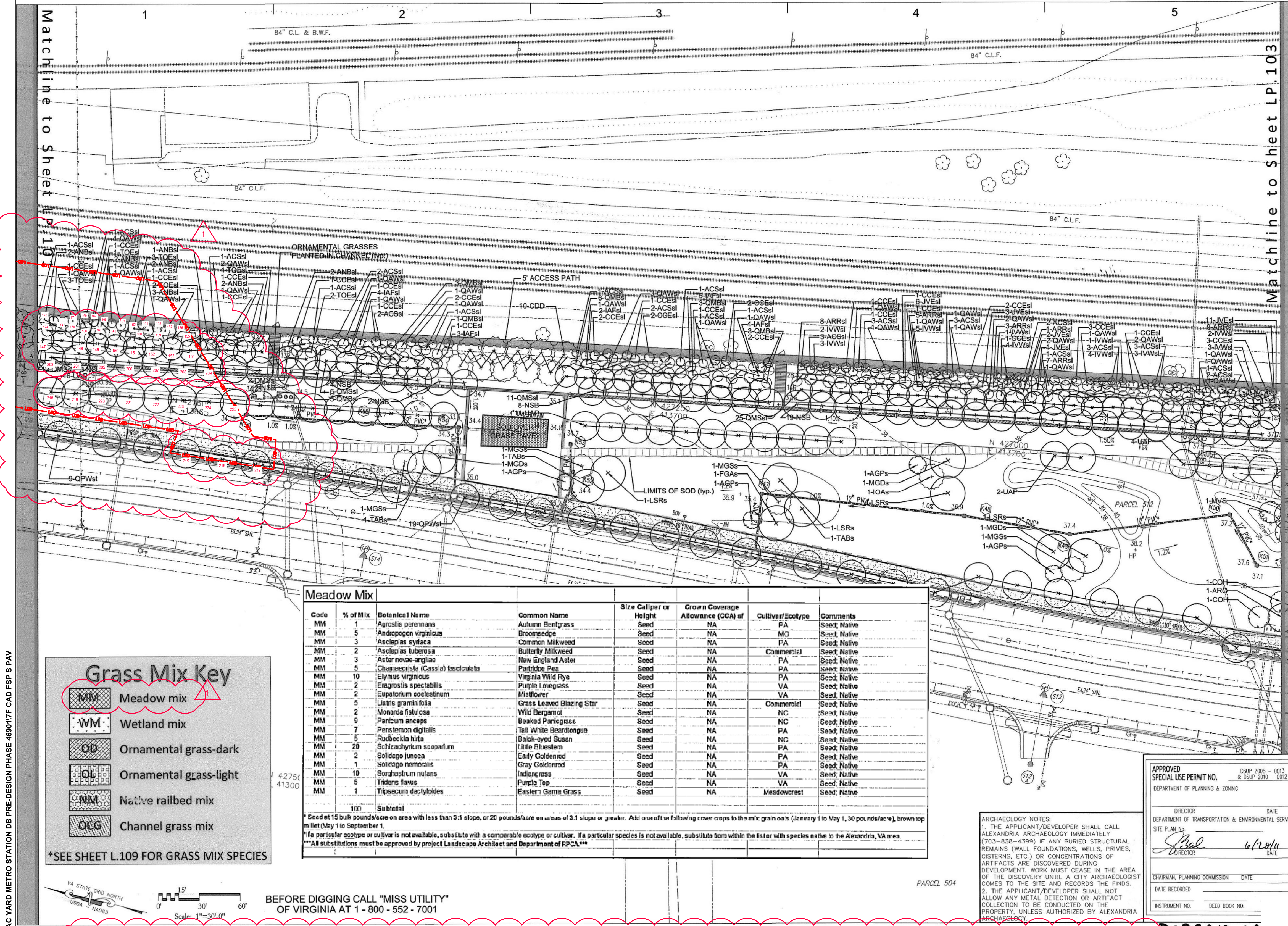
GENERAL NOTES:

1. THIS PLANTING PLAN PROVIDED BY WMATA AND CITY OF ALEXANDRIA.
2. RED OVERLAY ADDED TO DEPICT LIMIT OF DISTURBANCE AND TREE REMOVAL ASSOCIATED WITH SOUTH PAVILION.
3. EXISTING TREES FIELD VERIFIED BY RHI OCTOBER 2 - 4, 2020

4. TREES WITHIN THE LOD WITHOUT A NUMBER NO LONGER EXIST
5. SEE SHEET L-113 FOR LIST OF EXISTING TREES

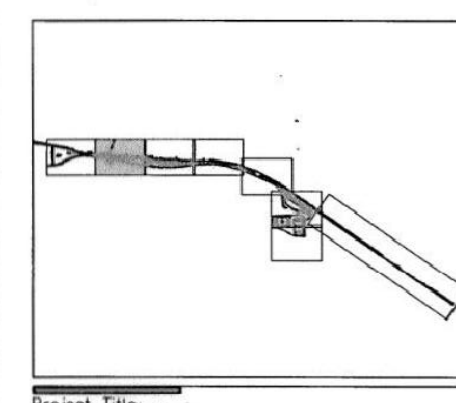
FILED 8/31/2020 5:31 AM	DESIGNED	ER/DT/JF	09/09/2020	REFERENCE DRAWINGS		REVISIONS		WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY				POTOMAC YARD METRO RAIL STATION LANDSCAPE					
	DRAWN	JF	09/09/2020	NUMBER	DESCRIPTION	DATE	NUM	DESCRIPTION	DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES OFFICE OF THE CHIEF ENGINEER, INFRASTRUCTURE				SOUTH PAVILION REFERENCE PLANTING PLAN 1 OF 2				
	CHECKED	DT	09/09/2020														
	APPROVED	DT	09/09/2020														
									SUBMITTED	DATE	 		M NO.	CONTRACT NO.	SCALE:	DRAWING NO.	SHEET NO.
								APPROVED	DATE	M1316			FQ16146	1" = 40'	L-111	43 OF 60	
								DIRECTOR	DATE								

8/31/2020 9:50 AM
FILE PATH: P:\POTOMAC YARD METRO STATION DB PRE-DESIGN PHASE 4690177 CAD FSP S.PAV

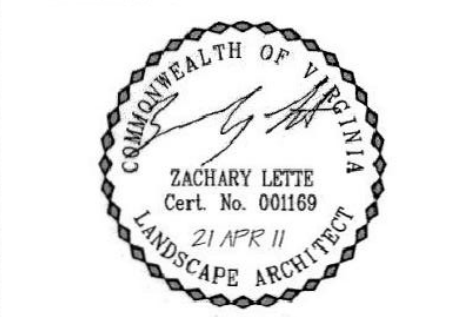


LPDA
LPDA, Inc.
46169 Westlake Drive, Suite 340
Sterling, Virginia 20155
P: 703-437-7907 F: 434-296-2109
www.lpda.net

TREES IN LOD			
As-Built Symbol	Latin	Common	Count
ACSl	Amelanchier canadensis	Serviceberry	4
ANBSl	Acer negundo	Boxelder	9
CCSl	Cercis canadensis	Eastern Redbud	3
NSB	Nyssa sylvatica	Black Gum	7
QAWSl	Quercus alba	White Oak	5
QMSl	Quercus michauxii	Swamp Chestnut Oak	10
QPWst	Quercus phellos	Willow Oak	6
TOESl	Thuja occidentalis	Eastern Arborvitae	9
UAP	Ulmus americana "Princeton"	Princeton Elm	8
			61



POTOMAC YARD PARK



No.	Revision	Date
1.	60% Set Revision	7/20/10
2.	Interim 100% Set Revision	10/28/10
3.	100% Set Revision	12/16/10
4.	Minor Amendment	04/21/11

Drawn by: AS Checked by: ZL
Scale: 1:30 Date: April 21, 2011
Issued for:

POTOMAC YARD DEVELOPMENT, LLC.

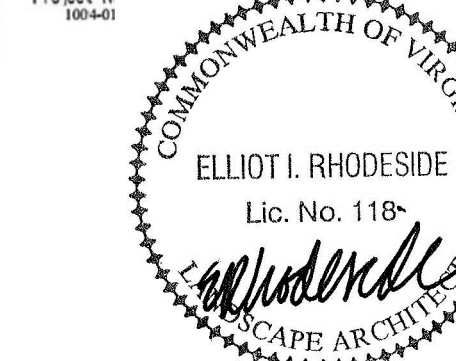
Drawing Title

PLANTING PLAN

Drawing Number

LP.102

Project No. (if used)



ALEXANDRIA, VA ARCHEAEOLOGY NOTES:

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

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. _____	

PROFESSIONAL CERTIFICATION:
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A FULLY LICENSED PROFESSIONAL LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF VIRGINIA.

LICENSE NO.: 118
EXPIRATION DATE: 1/31/2021

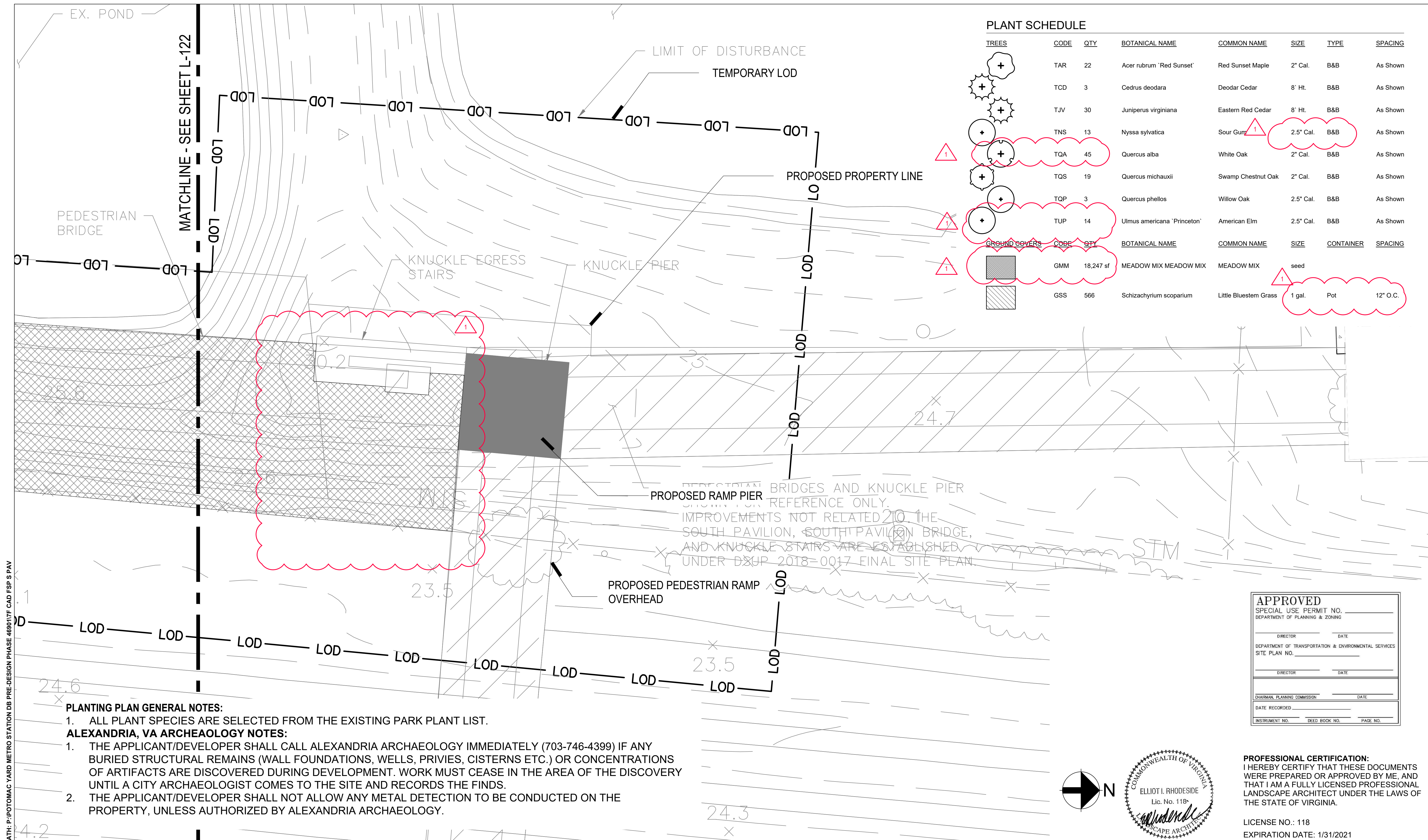
DESIGNED				ER/DT/JF				09/09/2020				DATE											
DRAWN				JF				09/09/2020				DATE											
CHECKED				DT				09/09/2020				DATE											
APPROVED				DT				09/09/2020				DATE											
REFERENCE DRAWINGS												REVISIONS											
NUMBER												DESCRIPTION											
DATE												NUM											
10/07/2020												1											
FSP#2																							
WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY																							
DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES																							
OFFICE OF THE CHIEF ENGINEER, INFRASTRUCTURE																							
SUBMITTED												DATE											
APPROVED												DATE											
DIRECTOR																							
POTOMAC YARD CONSTRUCTORS												ARUP											
M NO.												CONTRACT NO.											
M1316												FQ16146											
SCALE:												DRAWING NO.											
1" = 40'												L-112											
SHEET NO.												44 OF 60											

8/31/2020 9:50 AM FILE PATH: P:\POTOMAC YARD METRO STATION DB PRE-DESIGN PHASE 469017F CAD FSP S PAV

TREES WITHIN LOD AREA							
Number	Botanical Name	Common Name	Condition	Circ"	DBH"	Notes	Section
1	Platinus x acerifolia	London Planetree	Dead		0.0		NORTH
2	Platinus x acerifolia	London Planetree	Good	11	3.5		NORTH
3	Platinus x acerifolia	London Planetree	Dead		0.0		NORTH
4	Platinus x acerifolia	London Planetree	Good	11	3.5		NORTH
5	Nyssa sylvatica	Black Gum	Dead		0.0		NORTH
6	Nyssa sylvatica	Black Gum	Dead		0.0		NORTH
7	Quercus michauxii	Swamp Chestnut Oak	Missing		0.0	Recently disturbed	NORTH
8	Quercus michauxii	Swamp Chestnut Oak	Good	14	4.5		NORTH
9	Quercus michauxii	Swamp Chestnut Oak	Good	15.5	4.9		NORTH
10	Quercus michauxii	Swamp Chestnut Oak	Good	16	5.1		NORTH
11	Quercus michauxii	Swamp Chestnut Oak	Good	13	4.1		NORTH
12	Quercus michauxii	Swamp Chestnut Oak	Good	14	4.5		NORTH
13	Quercus michauxii	Swamp Chestnut Oak	Good	13	4.1	Recently disturbed	NORTH
14	Quercus michauxii	Swamp Chestnut Oak	Good	12	3.8		NORTH
15	Quercus michauxii	Swamp Chestnut Oak	Missing		0.0		NORTH
16	Quercus michauxii	Swamp Chestnut Oak	Poor	11	3.5	Leader dead	NORTH
17	Quercus michauxii	Swamp Chestnut Oak	Poor	9	2.9	Recently disturbed	NORTH
18	Quercus michauxii	Swamp Chestnut Oak	Good	10.5	3.3		NORTH
19	Quercus michauxii	Swamp Chestnut Oak	Good	12	3.8		NORTH
20	Quercus michauxii	Swamp Chestnut Oak	Good	10	3.2		NORTH
21	Quercus michauxii	Swamp Chestnut Oak	Good	17	5.4		NORTH
22	Quercus michauxii	Swamp Chestnut Oak	Good	19	6.1		NORTH
23	Quercus michauxii	Swamp Chestnut Oak	Good	14	4.5		NORTH
24	Quercus michauxii	Swamp Chestnut Oak	Poor	12	3.8		NORTH
25	Quercus michauxii	Swamp Chestnut Oak	Good	11	3.5		NORTH
26	Quercus michauxii	Swamp Chestnut Oak	Good	12	3.8		NORTH
27	Quercus michauxii	Swamp Chestnut Oak	Good	11.5	3.7		NORTH
28	Quercus michauxii	Swamp Chestnut Oak	Good	11.5	3.7		NORTH
29	Quercus michauxii	Swamp Chestnut Oak	Good	13.5	4.3		NORTH
30	Quercus michauxii	Swamp Chestnut Oak	Good	12	3.8		NORTH
31	Quercus michauxii	Swamp Chestnut Oak	Good	18	5.7		NORTH
32	Quercus alba	White Oak	Good	8	2.5		NORTH
33	Quercus alba	White Oak	Good	6	1.9		NORTH
34	Quercus alba	White Oak	Good	6	1.9		NORTH
35	Juniperus virginiana	Eastern Red Cedar	Good	7	2.2		NORTH
36	Acer rubrum	Red Maple	Poor	7	2.2		NORTH
37	Cercis canadensis	Eastern Redbud	Good	12	3.8		NORTH
38	Quercus alba	White Oak	Good	6	1.9		NORTH
39	Quercus alba	White Oak	Good	6	1.9		NORTH
40	Quercus alba	White Oak	Good	6	1.9		NORTH
41	Quercus alba	White Oak	Good	7	2.2		NORTH
42	Quercus alba	White Oak	Good	5	1.6		NORTH
43	Juniperus virginiana	Eastern Red Cedar	Good	9.5	3.0		NORTH
44	Juniperus virginiana	Eastern Red Cedar	Good	9	2.9		NORTH
45	Juniperus virginiana	Eastern Red Cedar	Good	10	3.2		NORTH
46	Acer rubrum	Red Maple	Good	9	2.9		NORTH
47	Acer rubrum	Red Maple	Good	7	2.2		NORTH
48	Cercis canadensis	Eastern Redbud	Good	8	2.5		NORTH
49	Cercis canadensis	Eastern Redbud	Good	7	2.2		NORTH
50	Juniperus virginiana	Eastern Red Cedar	Good	7	2.2		NORTH
51	Acer rubrum	Red Maple	Good	7.5	2.4		NORTH
52	Juniperus virginiana	Eastern Red Cedar	Good	9	2.9		NORTH
53	Juniperus virginiana	Eastern Red Cedar	Good	7	2.2		NORTH
54	Juniperus virginiana	Eastern Red Cedar	Good	8	2.5		NORTH
55	Juniperus virginiana	Eastern Red Cedar	Good	10	3.2		NORTH
56	Acer rubrum	Red Maple	Good	10	3.2		NORTH
57	Quercus alba	White Oak	Good	6	1.9		NORTH
58	Quercus alba	White Oak	Good	5.5	1.8		NORTH
59	Quercus alba	White Oak	Good	4.5	1.4		NORTH
60	Quercus alba	White Oak	Good	5	1.6		NORTH
61	Cercis canadensis	Eastern Redbud	Good	11	3.5		NORTH
62	Cercis canadensis	Eastern Redbud	Good	9	2.9		NORTH
63	Cercis canadensis	Eastern Redbud	Good	7	2.2		NORTH
64	Cercis canadensis	Eastern Redbud	Poor	5	1.6		NORTH
65	Acer rubrum	Red Maple	Good	9	2.9		NORTH
66	Acer rubrum	Red Maple	Dead		0.0		NORTH
67	Cercis canadensis	Eastern Redbud	Good	7	2.2		NORTH
68	Cercis canadensis	Eastern Redbud	Good	10	3.2		NORTH
69	Acer rubrum	Red Maple	Good	10	3.2		NORTH
70	Cercis canadensis	Eastern Redbud	Good	8	2.5		NORTH
71	Quercus alba	White Oak	Good	6	1.9		NORTH
72	Quercus alba	White Oak	Good	7	2.2		NORTH
73	Juniperus virginiana	Eastern Red Cedar	Good	9	2.9		NORTH
74	Juniperus virginiana	Eastern Red Cedar	Good	6	1.9		NORTH
75	Juniperus virginiana	Eastern Red Cedar	Good	11	3.5		NORTH


Number	Botanical Name	Common Name	Condition	Circ"	DBH"	Notes	Section
76	Acer rubrum	Red Maple	Good	10	3.2		NORTH
77	Quercus alba	White Oak	Good	5.5	1.8		NORTH
78	Cercis canadensis	Eastern Redbud	Good	7	2.2		NORTH
79	Cercis canadensis	Eastern Redbud	Good	7	2.2		NORTH
80	Acer rubrum	Red Maple	Good	7	2.2		NORTH
81	Acer rubrum	Red Maple	Good	10.5	3.3		NORTH
82	Quercus alba	White Oak	Good	5.5	1.8		NORTH
83	Amelanchier canadensis	Serviceberry	Dead		0.0		NORTH
84	Juniperus virginiana	Eastern Red Cedar	Good	8	2.5		NORTH
85	Quercus alba	White Oak	Good	5	1.6		NORTH
86	Acer rubrum	Red Maple	Good	10	3.2		NORTH
87	Acer rubrum	Red Maple	Good	8.5	2.7		NORTH
88	Cercis canadensis	Eastern Redbud	Poor	5	1.6	Recently disturbed	NORTH
89	Juniperus virginiana	Eastern Red Cedar	Poor	8.5	2.7	Recently disturbed	NORTH
90	Juniperus virginiana	Eastern Red Cedar	Good	10	3.2		NORTH
91	Juniperus virginiana	Eastern Red Cedar	Good	9	2.9		NORTH
92	Cercis canadensis	Eastern Redbud	Good	7	2.2		NORTH
93	Cercis canadensis	Eastern Redbud	Poor	5	1.6		NORTH
94	Cercis canadensis	Eastern Redbud	Good	7	2.2		NORTH
95	Cercis canadensis	Eastern Redbud	Poor	7	2.2		NORTH
96	Acer rubrum	Red Maple	Good	7	2.2		NORTH
97	Acer rubrum	Red Maple	Good	7	2.2		NORTH
98	Acer rubrum	Red Maple	Poor	7	2.2		NORTH
99	Cercis canadensis	Eastern Redbud	Poor	6.5	2.1		NORTH
100	Juniperus virginiana	Eastern Red Cedar	Good	9	2.9		NORTH
101	Quercus alba	White Oak	Poor	7	2.2		NORTH
102	Acer rubrum	Red Maple	Good	9.5	3.0		NORTH
103	Juniperus virginiana	Eastern Red Cedar	Good	9.5	3.0		NORTH
104	Quercus alba	White Oak	Poor	8	2.5		NORTH
105	Acer rubrum	Red Maple	Poor	7	2.2		NORTH
106	Juniperus virginiana	Eastern Red Cedar	Good	10	3.2		NORTH
107	Juniperus virginiana	Eastern Red Cedar	Good	10	3.2		NORTH
108	Acer rubrum	Red Maple	Good	6	1.9		NORTH
109	Juniperus virginiana	Eastern Red Cedar	Good	8.5	2.7		NORTH
110	Acer rubrum	Red Maple	Good	10.5	3.3		NORTH
111	Quercus alba	White Oak	Poor	5	1.6	Recently disturbed	NORTH
112	Quercus alba	White Oak	Poor	8	2.5	Recently disturbed	NORTH
113	Quercus alba	White Oak	Good	20.5	6.5	Plan tree Swamp Chestnut Oak	SOUTH
114	Quercus alba	White Oak	Good	14.5	4.6	Plan tree Swamp Chestnut Oak	SOUTH
115	Quercus alba	White Oak	Good	18	5.7	Plan tree Swamp Chestnut Oak	SOUTH
116	Quercus alba	White Oak	Good	19.5	6.2	Plan tree Swamp Chestnut Oak	SOUTH
117	Quercus alba	White Oak	Good	18.5	5.9	Plan tree Swamp Chestnut Oak	SOUTH
118	Quercus alba	White Oak	Good	19	6.1	Plan tree Swamp Chestnut Oak	SOUTH
119	Quercus alba	White Oak	Good	16	5.1	Plan tree Swamp Chestnut Oak	SOUTH
120	Acer negundo	Boxelder	Good	14.5	4.6		SOUTH
121	Thuja occidentalis	Eastern Arborvitae	Dead		0.0		SOUTH
122	Quercus alba	White Oak	Good	13	4.1		SOUTH
123	Thuja occidentalis	Eastern Arborvitae	Dead		0.0		SOUTH
124	Acer negundo	Boxelder	Good		0.0	Multistem	SOUTH
125	Cercis canadensis	Eastern Redbud	Good	4.5	1.4		SOUTH
126	Amelanchier canadensis	Serviceberry	Dead		0.0		SOUTH
127	Amelanchier canadensis	Serviceberry	Good		0.0	Multistem	SOUTH
128	Thuja occidentalis	Eastern Arborvitae	Poor		0.0	Multistem	SOUTH
129	Thuja occidentalis	Eastern Arborvitae	Poor		0.0	Multistem	SOUTH
130	Acer negundo	Boxelder	Dead		0.0		SOUTH
131	Acer negundo	Boxelder	Good	18.5	5.9		SOUTH
132	Amelanchier canadensis	Serviceberry	Good		0.0	Multistem	SOUTH
133	Thuja occidentalis	Eastern Arborvitae	Dead		0.0		SOUTH
134	Acer negundo	Boxelder	Poor		0.0	Multistem	SOUTH
135	Quercus alba	White Oak	Good	12	3.8		SOUTH
136	Quercus alba	White Oak	Poor	7	2.2		SOUTH
137	Thuja occidentalis	Eastern Arborvitae	Dead		0.0		SOUTH
138	Acer negundo	Boxelder	Dead		0.0		SOUTH
139	Thuja occidentalis	Eastern Arborvitae	Dead		0.0		SOUTH
140	Quercus alba	White Oak	Good	9.5	3.0		SOUTH
141	Acer negundo	Boxelder	Good		0.0	Multistem	SOUTH
142	Thuja occidentalis	Eastern Arborvitae	Dead		0.0		SOUTH
143	Amelanchier canadensis	Serviceberry	Poor		0.0	Multistem	SOUTH
144	Cedrus deodora	Deodar Cedar	Good	20	6.4		SOUTH
145	Cedrus deodora	Deodar Cedar	Good	22	7.0		SOUTH
146	Cedrus deodora	Deodar Cedar	Good	22	7.0		SOUTH
147	Quercus alba	White Oak	Good	19	6.1		SOUTH
148	Quercus alba	White Oak	Good	18	5.7		SOUTH
149	Quercus alba	White Oak	Good	22	7.0		SOUTH
150	Quercus alba	White Oak	Good	15	4.8		SOUTH

Number	Botanical Name	Common Name	Condition	Circ"	DBH"	Notes	Section
151	Quercus alba	White Oak	Good	19.5	6.2		SOUTH
152	Quercus alba	White Oak	Good	17.5	5.6		SOUTH
153	Quercus alba	White Oak	Good	14	4.5		SOUTH
154	Quercus alba	White Oak	Good	20	6.4		SOUTH
155	Quercus alba	White Oak	Good	11	3.5		SOUTH
156	Amelenchier canadensis	Serviceberry	Good		0.0	Multistem	SOUTH
157	Quercus alba	White Oak	Good	13.5	4.3		SOUTH
158	Cercis canadensis	Eastern Redbud	Dead		0.0		SOUTH
159	Thuja occidentalis	Eastern Arborvitae	Good		0.0	Multistem	SOUTH
160	Thuja occidentalis	Eastern Arborvitae	Good		0.0	Multistem	SOUTH
161	Acer negundo	Boxelder	Poor		0.0	Multistem	SOUTH
162	Acer negundo	Boxelder	Good	13.5	4.3		SOUTH
163	Quercus alba	White Oak	Good	12	3.8		SOUTH
164	Thuja occidentalis	Eastern Arborvitae	Dead		0.0		SOUTH
165	Acer negundo	Boxelder	Good	14.5	4.6		SOUTH
166	Thuja occidentalis	Eastern Arborvitae	Dead		0.0		SOUTH
167	Amelenchier canadensis	Serviceberry	Poor	5	1.6		SOUTH
168	Thuja occidentalis	Eastern Arborvitae	Dead		0.0		SOUTH
169	Acer negundo	Boxelder	Good	13.5	4.3		SOUTH
170	Thuja occidentalis	Eastern Arborvitae	Dead		0.0		SOUTH
171	Quercus alba	White Oak	Good	8	2.5		SOUTH
172	Acer negundo	Boxelder	Dead		0.0		SOUTH
173	Acer negundo	Boxelder	Poor	17	5.4		SOUTH
174	Thuja occidentalis	Eastern Arborvitae	Dead		0.0		SOUTH
175	Ginko biloba	Ginko	Good	8.5	2.7		NORTH
176	Ginko biloba	Ginko	Poor	5	1.6		NORTH
177	Ginko biloba	Ginko	Poor	5	1.6		NORTH
178	Nyssa sylvatica	Black Gum	Good	14	4.5		NORTH
179	Nyssa sylvatica	Black Gum	Good	10	3.2		NORTH
180	Nyssa sylvatica	Black Gum	Good	8.5	2.7		NORTH
181	Nyssa sylvatica	Black Gum	Good	13	4.1		NORTH
182	Nyssa sylvatica	Black Gum	Good	10	3.2		NORTH
183	Nyssa sylvatica	Black Gum	Good	12	3.8		NORTH
184	Nyssa sylvatica	Black Gum	Good	11	3.5		NORTH
185	Nyssa sylvatica	Black Gum	Poor	11.5	3.7		NORTH
186	Nyssa sylvatica	Black Gum	Good	10	3.2		NORTH
187	Nyssa sylvatica	Black Gum	Good	13	4.1		NORTH
188	Nyssa sylvatica	Black Gum	Good	13.5	4.3		NORTH
189	Nyssa sylvatica	Black Gum	Good	11	3.5		NORTH
190	Nyssa sylvatica	Black Gum	Good	13	4.1		NORTH
191	Ulmus americana 'Princeton'	Princeton Elm	Good	15	4.8		NORTH
192	Ulmus americana 'Princeton'	Princeton Elm	Good	15	4.8		NORTH
193	Ulmus americana 'Princeton'	Princeton Elm	Good	15	4.8		NORTH
194	Ulmus americana 'Princeton'	Princeton Elm	Good	18.5	5.9		NORTH
195	Quercus phellos	Willow Oak	Good	10.5	3.3		NORTH
196	Quercus phellos	Willow Oak	Good	11	3.5		NORTH
197	Nyssa sylvatica	Black Gum	Good	16	5.1		SOUTH
198	Nyssa sylvatica	Black Gum	Good	15.5	4.9		SOUTH
199	Nyssa sylvatica	Black Gum	Good	15	4.8		SOUTH
200	Nyssa sylvatica	Black Gum	Poor	18	5.7		SOUTH
201	Nyssa sylvatica	Black Gum	Good	14	4.5		SOUTH
202	Nyssa sylvatica	Black Gum	Good	18	5.7		SOUTH
203	Nyssa sylvatica	Black Gum	Good	15	4.8		SOUTH
204	Nyssa sylvatica	Black Gum	Good	16	5.1		SOUTH
205	Nyssa sylvatica	Black Gum	Good	12	3.8		SOUTH
206	Nyssa sylvatica	Black Gum	Good	14.5	4.6		SOUTH
207	Nyssa sylvatica	Black Gum	Good	17	5.4		SOUTH
208	Nyssa sylvatica	Black Gum	Good	15	4.8		SOUTH
209	Nyssa sylvatica	Black Gum	Good	15	4.8		SOUTH
210	Acer rubrum	Red Maple	Good	14.5	4.6		SOUTH
211	Acer rubrum	Red Maple	Good	10	3.2		SOUTH
212	Nyssa sylvatica	Black Gum	Good	16	5.1		SOUTH
213	Nyssa sylvatica	Black Gum	Poor	11.5	3.7		SOUTH
214	Ilex opaca	American Holly	Good	9.5	3.0		SOUTH
215	Quercus phellos	Willow Oak	Good	13.5	4.3		SOUTH
216	Quercus phellos	Willow Oak	Good	16.5	5.3		SOUTH
217	Quercus phellos	Willow Oak	Good	15.5	4.9		SOUTH
218	Ulmus americana 'Princeton'	Princeton Elm	Good	13	4.1		SOUTH
219	Ulmus americana 'Princeton'	Princeton Elm	Good	15.5	4.9		SOUTH
220	Ulmus americana 'Princeton'	Princeton Elm	Good	15	4.8		SOUTH
221	Ulmus americana 'Princeton'	Princeton Elm	Good	18	5.7		SOUTH
222	Ulmus americana 'Princeton'	Princeton Elm	Good	12	3.8		SOUTH
223	Ulmus americana 'Princeton'	Princeton Elm	Good	14.5	4.6		SOUTH
224	Ulmus americana 'Princeton'	Princeton Elm	Poor	11	3.5		SOUTH
225	Ulmus americana 'Princeton'	Princeton Elm	Good	11.5	3.7		SOUTH

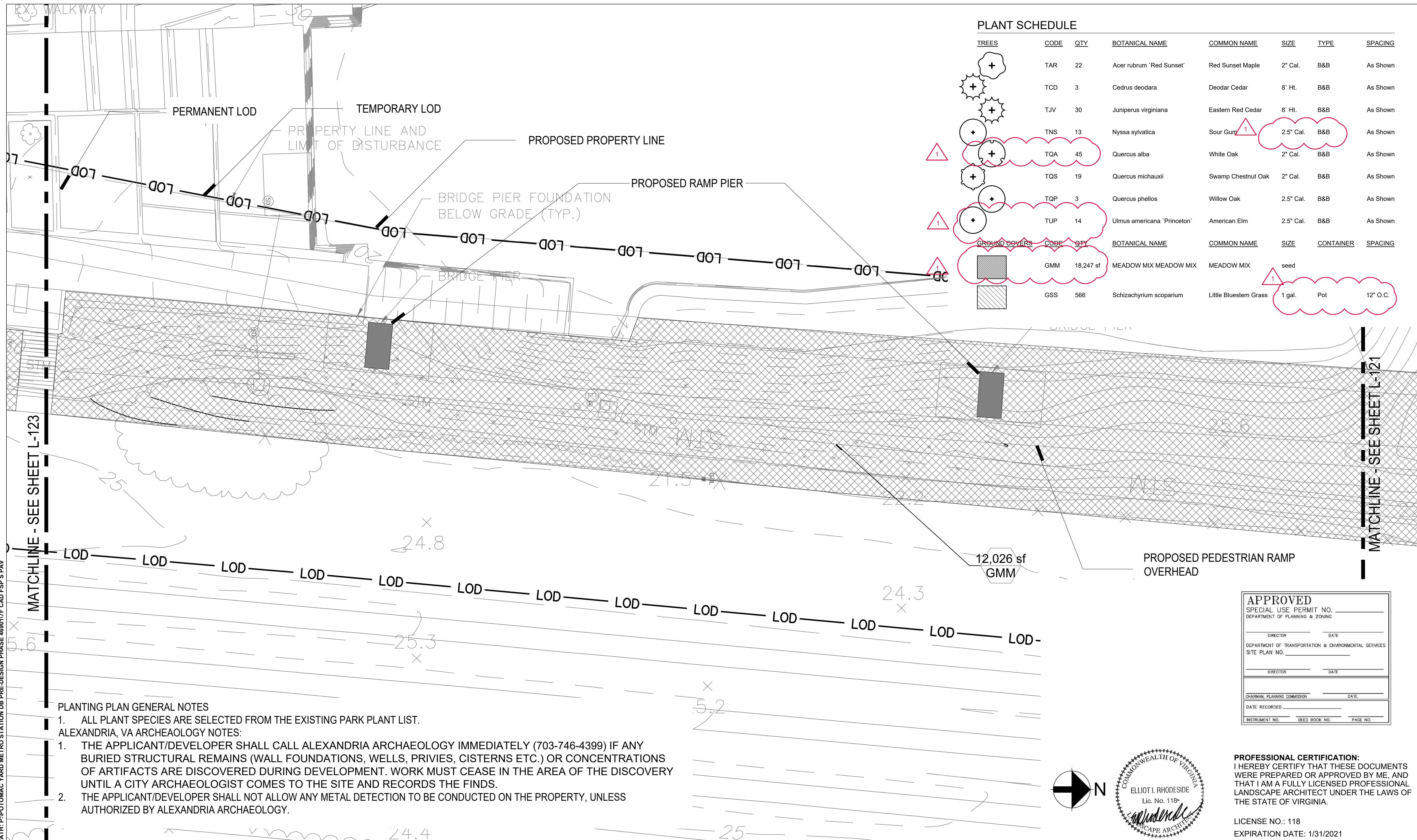


500 TADAS 10000 PAM 1 TEL	DESIGNED	ER/DT/JF	09/09/2020	REFERENCE DRAWINGS		REVISIONS		
			DATE	NUMBER	DESCRIPTION	DATE	NUM	DESCRIPTION
	DRAWN	JF	09/09/2020			10/07/2020	1	FSP #2
			DATE					
	CHECKED	DT	09/09/2020					
			DATE					
	APPROVED	DT	09/09/2020					
			DATE					

<h1 style="margin: 0;">WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY</h1> <h2 style="margin: 0;">DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES</h2> <h3 style="margin: 0;">OFFICE OF THE CHIEF ENGINEER, INFRASTRUCTURE</h3>	
SUBMITTED	DATE
APPROVED	DATE
DIRECTOR	DATE

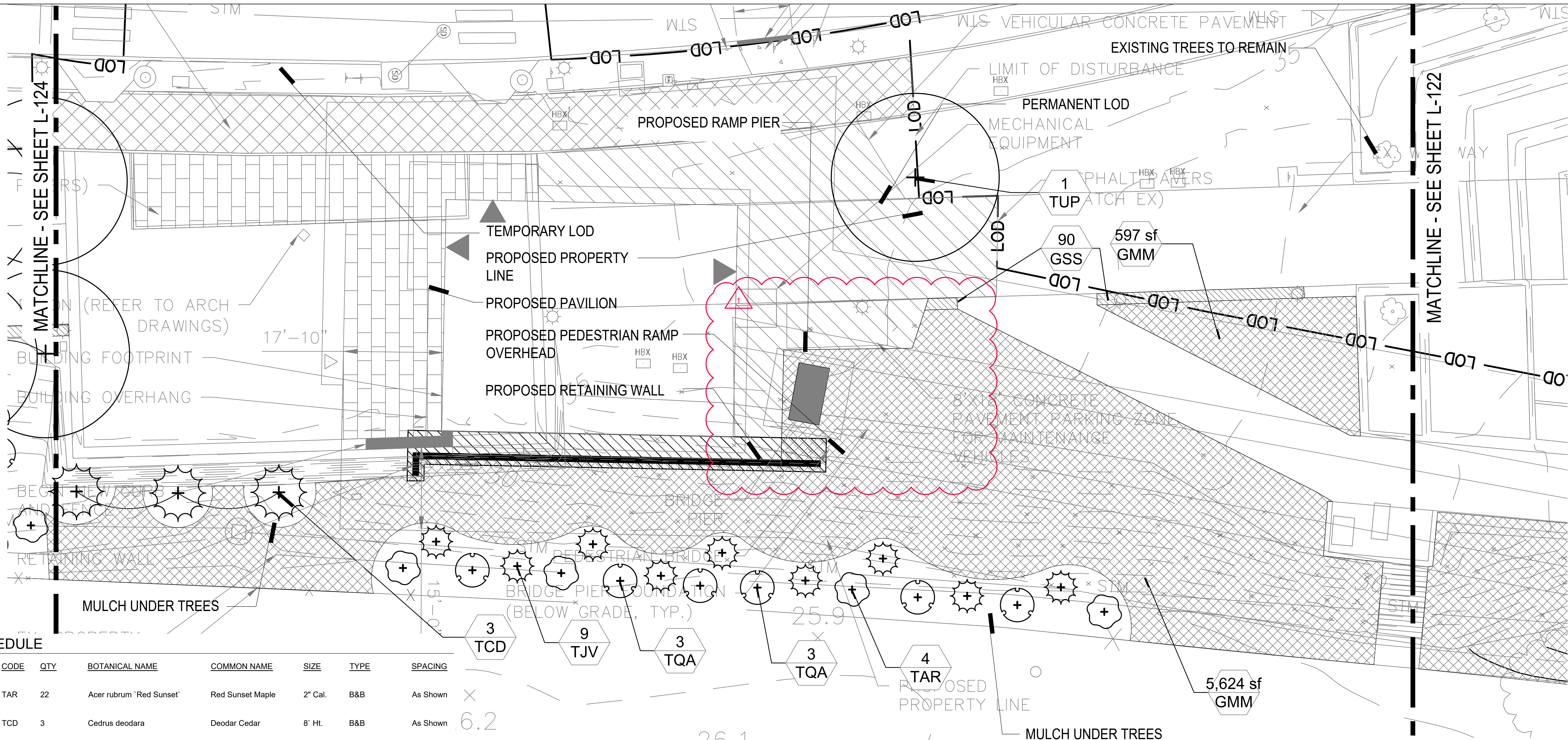



<p align="center">POTOMAC YARD METRORAIL STATION LANDSCAPE SOUTH PAVILION PLANTING PLAN 1 OF 4</p>				
M NO. M1316	CONTRACT NO. FQ16146	SCALE: 1" = 10'	DRAWING NO. L-121	SHEET NO. 45 OF 60



FILE 8/31/2020 10:06 AM	DESIGNED	ER/DT/JF	09/09/2020	REFERENCE DRAWINGS		REVISIONS		WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY			POTOMAC YARD METRORAIL STATION LANDSCAPE					
	DRAWN	JF	09/09/2020	NUMBER	DESCRIPTION	DATE	NUM	DESCRIPTION	DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES OFFICE OF THE CHIEF ENGINEER, INFRASTRUCTURE			SOUTH PAVILION				
	CHECKED	DT	09/09/2020									PLANTING PLAN 2 OF 4				
	APPROVED	DT	09/09/2020									SUBMITTED _____ DATE _____				
												APPROVED _____ DATE _____				
												DIRECTOR _____ DATE _____				
									<div><div><div>POTOMAC YARD</div><div>CONSTRUCTORS</div><div>A JOINT VENTURE</div></div><div>ARUP</div></div>			M NO. M1316	CONTRACT NO. FQ16146	SCALE: 1" = 10'	DRAWING NO. L-122	SHEET NO. 46 OF 60

8/31/2020 10:45 AM FILE PATH: P:\POTOMAC YARD METRO STATION DE PRE-DESIGN PHASE\6390177 CAD FSP S PAV



PLANT SCHEDULE

TREES	CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	TYPE	SPACING
	TAR	22	Acer rubrum 'Red Sunset'	Red Sunset Maple	2" Cal.	B&B	As Shown
	TCD	3	Cedrus deodara	Deodar Cedar	8' Ht.	B&B	As Shown
	TJV	30	Juniperus virginiana	Eastern Red Cedar	8' Ht.	B&B	As Shown
	TNS	13	Nyssa sylvatica	Sour Gum	2.5" Cal.	B&B	As Shown
	TQA	45	Quercus alba	White Oak	2" Cal.	B&B	As Shown
	TQS	19	Quercus michauxii	Swamp Chestnut Oak	2" Cal.	B&B	As Shown
	TQP	3	Quercus phellos	Willow Oak	2.5" Cal.	B&B	As Shown
	TUP	14	Ulmus americana 'Princeton'	American Elm	2.5" Cal.	B&B	As Shown
GROUND COVERS	CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	SPACING
	GMM	18,247 sf	MEADOW MIX MEADOW MIX	MEADOW MIX	seed		
	GSS	566	Schizachyrium scoparium	Little Bluestem Grass	1 gal.	Pot	12" O.C.

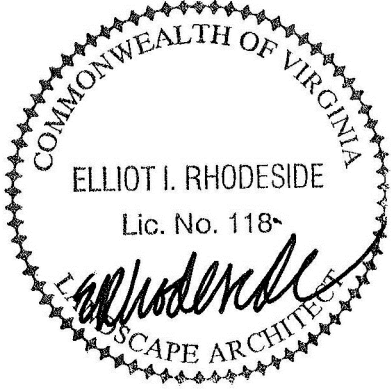
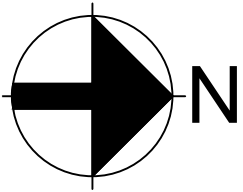
PLANTING PLAN GENERAL NOTES

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

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. _____	PAGE NO. _____

PROFESSIONAL CERTIFICATION:
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A FULLY LICENSED PROFESSIONAL LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF VIRGINIA.

LICENSE NO.: 118
EXPIRATION DATE: 1/31/2021



WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES
OFFICE OF THE CHIEF ENGINEER, INFRASTRUCTURE

SUBMITTED _____	DATE _____
APPROVED _____	DATE _____
DIRECTOR _____	DATE _____



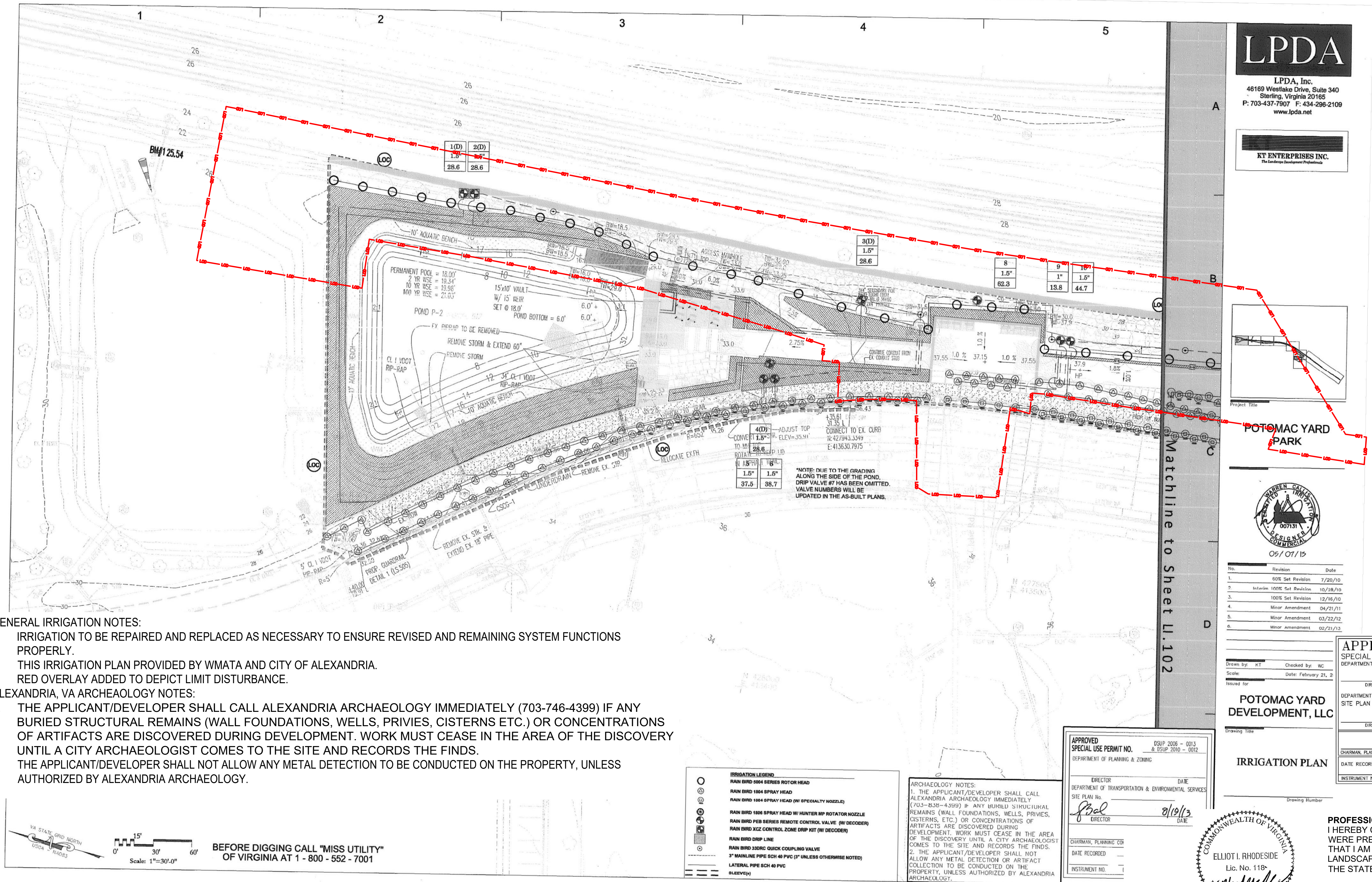
ARUP

M NO.	CONTRACT NO.	SCALE:	DRAWING NO.	SHEET NO.
M1316	FQ16146	1" = 10'	L-123	47 OF 60

POTOMAC YARD METRORAIL STATION
LANDSCAPE
SOUTH PAVILION
PLANTING PLAN 3 OF 4

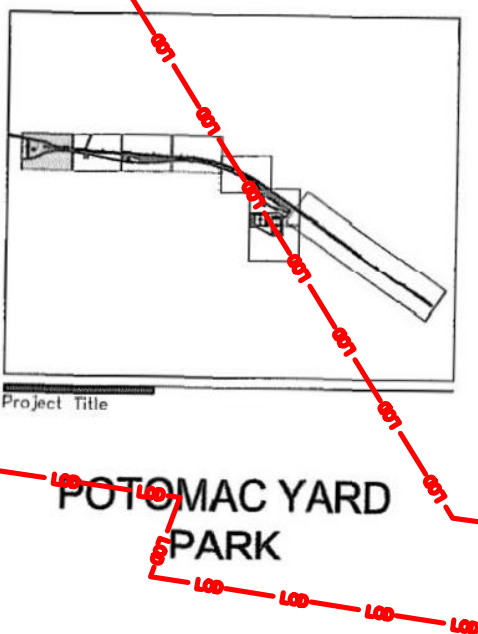
DESIGNED ER/DT/JF 09/04/2020 DATE DRAWN JF 09/04/2020 DATE CHECKED DT 09/04/2020 DATE APPROVED DT 09/04/2020 DATE	REFERENCE DRAWINGS		REVISIONS		WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY		POTOMAC YARD METRORAIL STATION LANDSCAPE					
	NUMBER	DESCRIPTION	DATE	NUM	DESCRIPTION	DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES OFFICE OF THE CHIEF ENGINEER, INFRASTRUCTURE		SOUTH PAVILION				
			10/07/2020	1	FSP #2			PLANTING PLAN 4 OF 4				
						SUBMITTED		M. NO.	CONTRACT NO.	SCALE:	DRAWING NO.	SHEET NO.
						DATE		M1316	FQ16146	1" = 10'	L-124	48 OF 60
						APPROVED						
						DIRECTOR						
						DATE						

8/31/2020 11:28 AM FILE PATH: P:\POTOMAC YARD METRO STATION DB PRE-DESIGN PHASE 469017F CAD FSP S PAV



LPDA
LPDA, Inc.
46169 Westlake Drive, Suite 340
Sterling, Virginia 20165
P: 703-437-7907 F: 434-296-2109
www.lpda.net

KT ENTERPRISES INC.
The Landscape Development Professionals



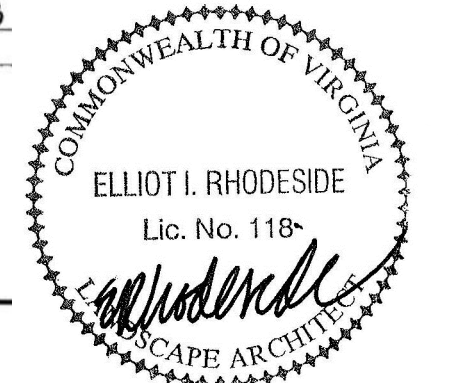
No.	Revision	Date
1.	80% Set Revision	7/20/10
2.	Interim 100% Set Revision	10/28/10
3.	100% Set Revision	12/16/10
4.	Minor Amendment	04/21/11
5.	Minor Amendment	03/22/12
6.	Minor Amendment	02/21/13

Drawn by: KT Checked by: WC
Scale: Date: February 21, 2
Issued for:

POTOMAC YARD DEVELOPMENT, LLC

Drawing title:
IRRIGATION PLAN
Drawing Number:

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.



PROFESSIONAL CERTIFICATION:
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A FULLY LICENSED PROFESSIONAL LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF VIRGINIA.

LICENSE NO.: 118
EXPIRATION DATE: 1/31/2021

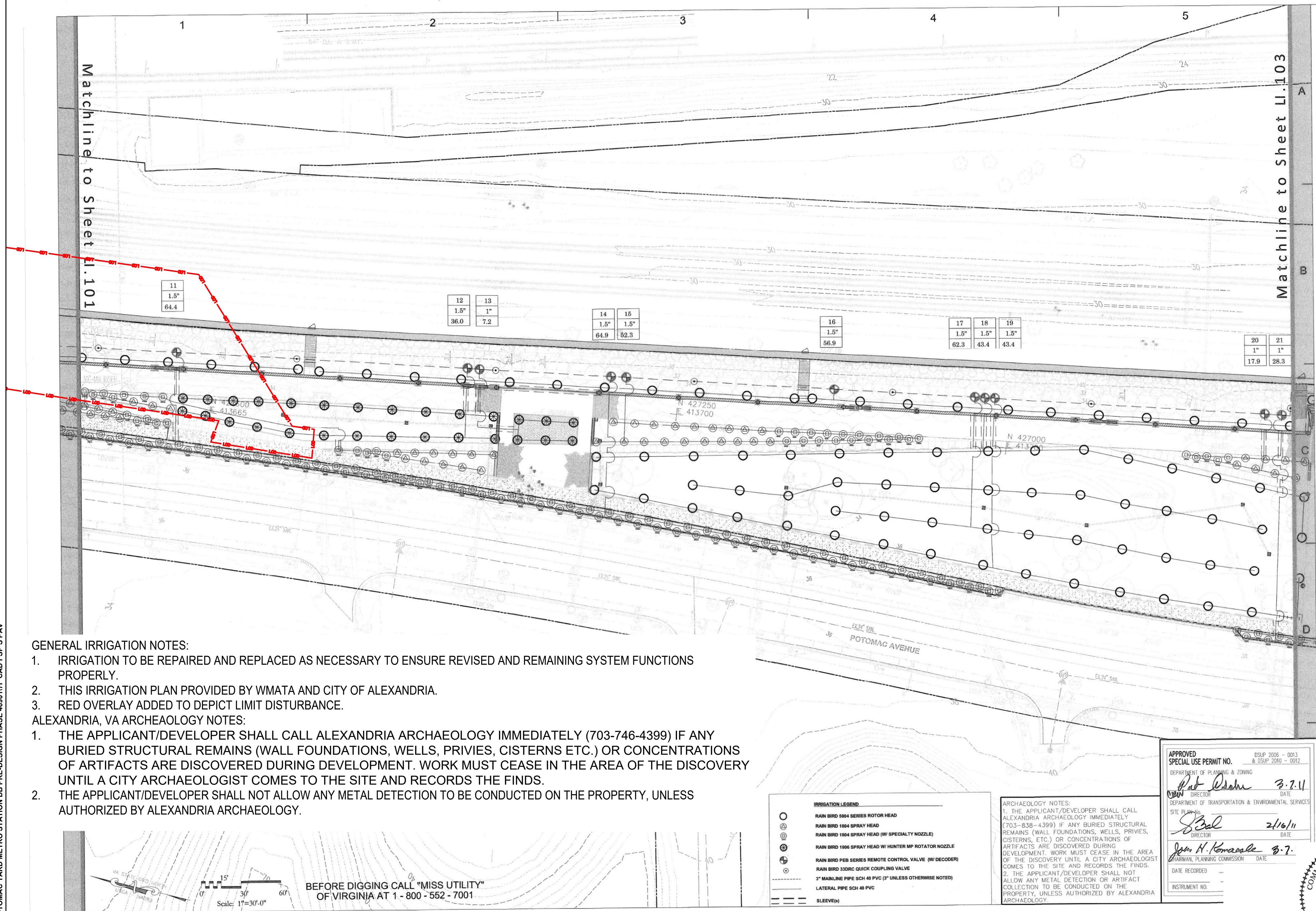
		DATE	REFERENCE DRAWINGS		REVISIONS	
			NUMBER	DESCRIPTION	DATE	NUM DESCRIPTION
DESIGNED	ER/DT/JF	09/09/2020			10/07/2020	1 FSP #2
DRAWN	JF	09/09/2020				
CHECKED	DT	09/09/2020				
APPROVED	DT	09/09/2020				

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES
OFFICE OF THE CHIEF ENGINEER, INFRASTRUCTURE

SUBMITTED _____ DATE _____
APPROVED _____ DATE _____
DIRECTOR



POTOMAC YARD METRORAIL STATION LANDSCAPE SOUTH PAVILION IRRIGATION PLAN 1 OF 2				
M NO.	CONTRACT NO.	SCALE:	DRAWING NO.	SHEET NO.
M1316	FQ16146	1" = 40'	L-131	49 OF 60



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

ARCHAEOLOGY NOTES:

1. THE APPLICANT/DEVELOPER SHALL CALL ALEXANDRIA ARCHAEOLOGY IMMEDIATELY (703-838-4399) IF ANY BURIED STRUCTURAL REMAINS (WALL FOUNDATIONS, WELLS, PRIVIES, CISTERNS, ETC.) OR CONCENTRATIONS OF ARTIFACTS ARE DISCOVERED DURING DEVELOPMENT. WORK MUST CEASE IN THE AREA OF THE DISCOVERY UNTIL A CITY ARCHAEOLOGIST COMES TO THE SITE AND RECORDS THE FINDS.

2. THE APPLICANT/DEVELOPER SHALL NOT ALLOW ANY METAL DETECTION OR ARTIFACT COLLECTION TO BE CONDUCTED ON THE PROPERTY, UNLESS AUTHORIZED BY ALEXANDRIA ARCHAEOLOGY.

APPROVED
SPECIAL USE PERMIT NO. _____

OSUP 2006 - 0013
& SUP 2010 - 0012

DEPARTMENT OF PLANNING & ZONING

Pat Keshner *3-7-11*
DIRECTOR DATE

DEPARTMENT OF TRANSPORTATION & ENVIRONMENTAL SERVICES

SITE PLAN NO. _____

S. Bal *2/16/11*
DIRECTOR DATE

Jean N. Konecny *3-7-*
CHAIRMAN, PLANNING COMMISSION DATE

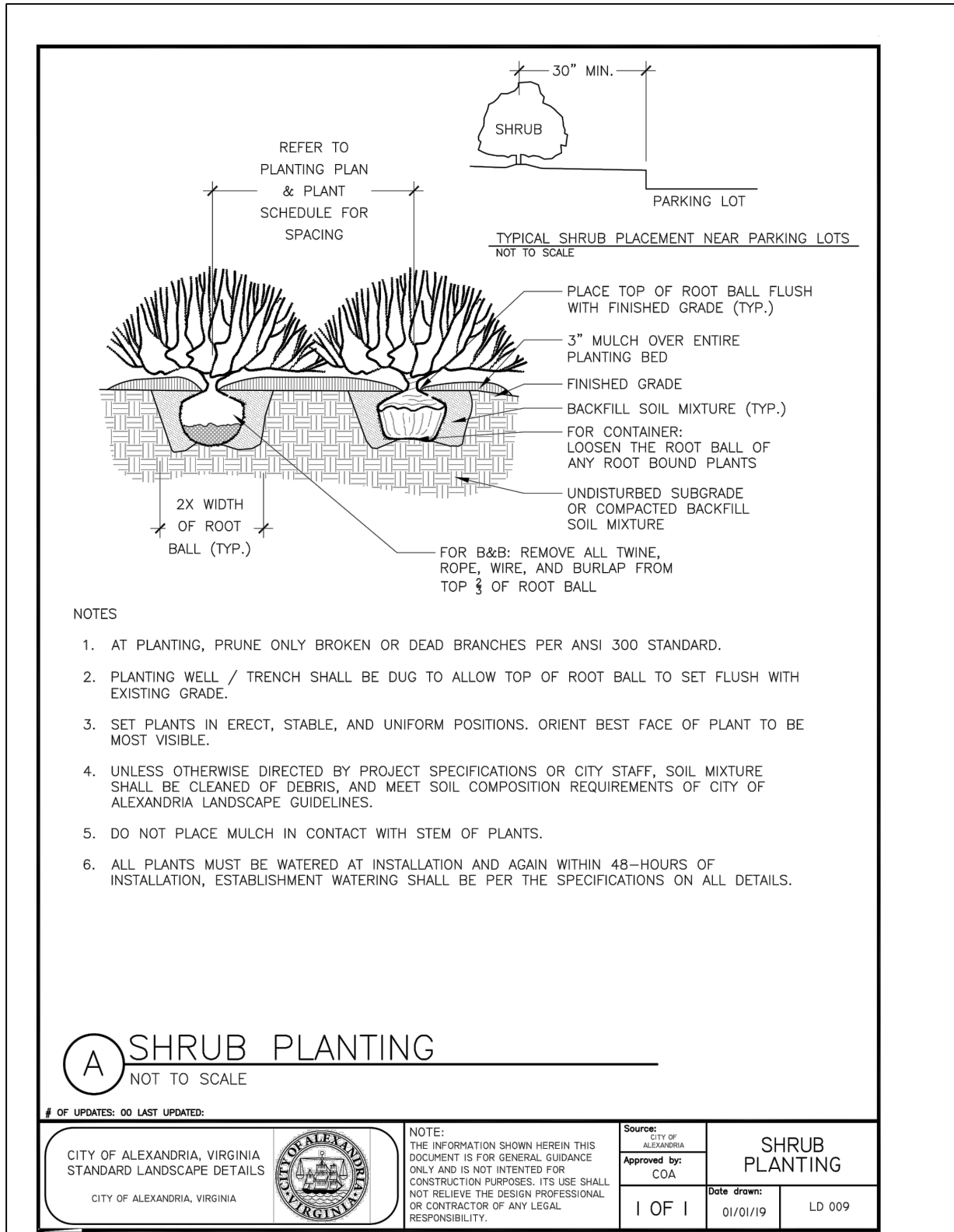
DATE RECORDED _____

INSTRUMENT NO. _____

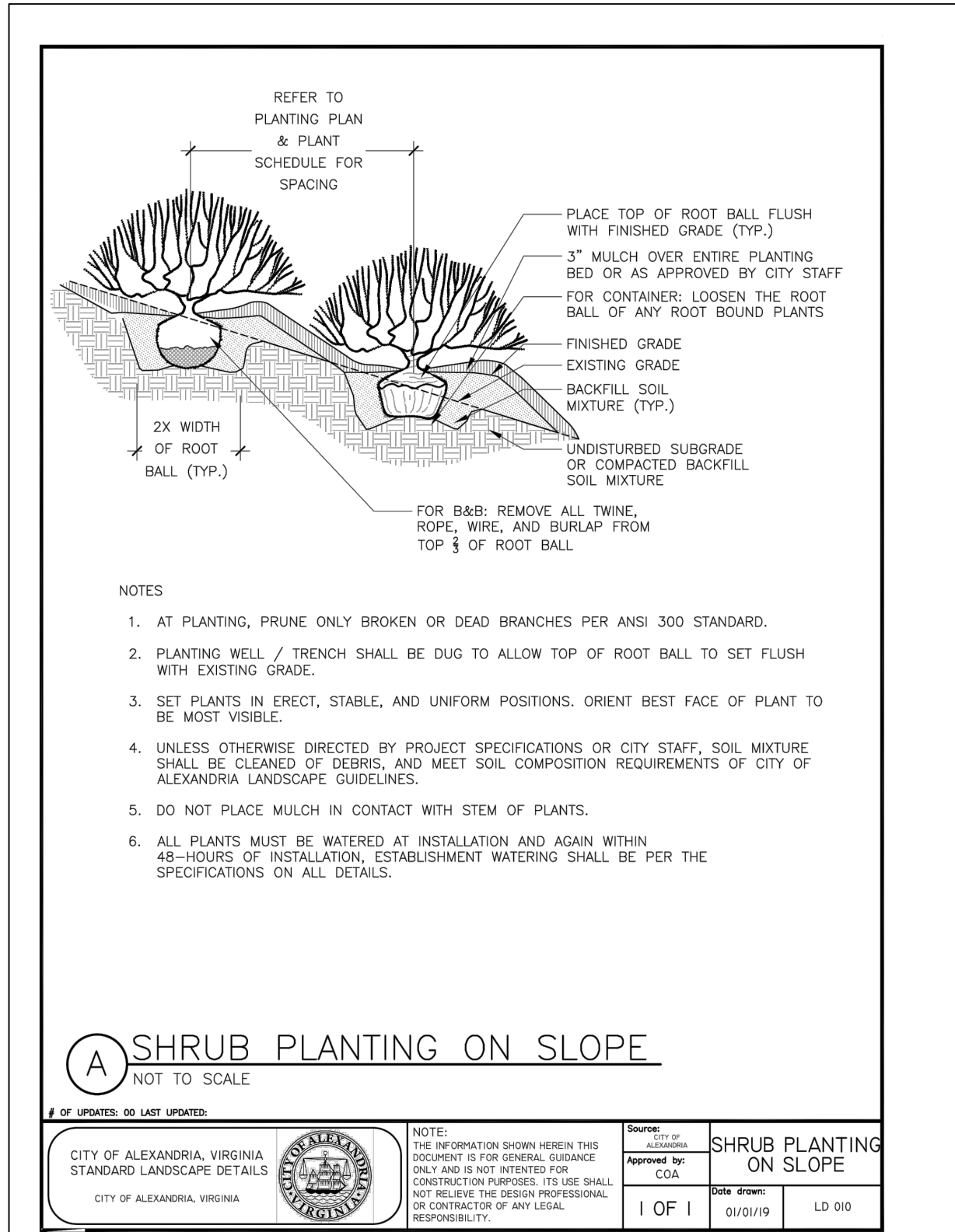
DESIGNED ER/DT/JF 09/09/2020 DATE DRAWN JF 09/09/2020 DATE CHECKED DT 09/09/2020 DATE APPROVED DT 09/09/2020 DATE	REFERENCE DRAWINGS		REVISIONS			WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY		POTOMAC YARD METRORAIL STATION LANDSCAPE					
	NUMBER	DESCRIPTION	DATE	NUM	DESCRIPTION	DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES OFFICE OF THE CHIEF ENGINEER, INFRASTRUCTURE		SOUTH PAVILION					
			10/07/2020	1	FSP #2			IRRIGATION PLAN 2 OF 2					
						SUBMITTED		M NO.		CONTRACT NO.	SCALE:	DRAWING NO.	SHEET NO.
						DATE		M1316		FQ16146	1" = 40'	L-132	50 OF 60
						APPROVED		<div><div>POTOMAC YARD CONSTRUCTORS A JOINT VENTURE</div><div>ARUP</div></div>					
						DATE							

GENERAL NOTES (CITY OF ALEXANDRIA):

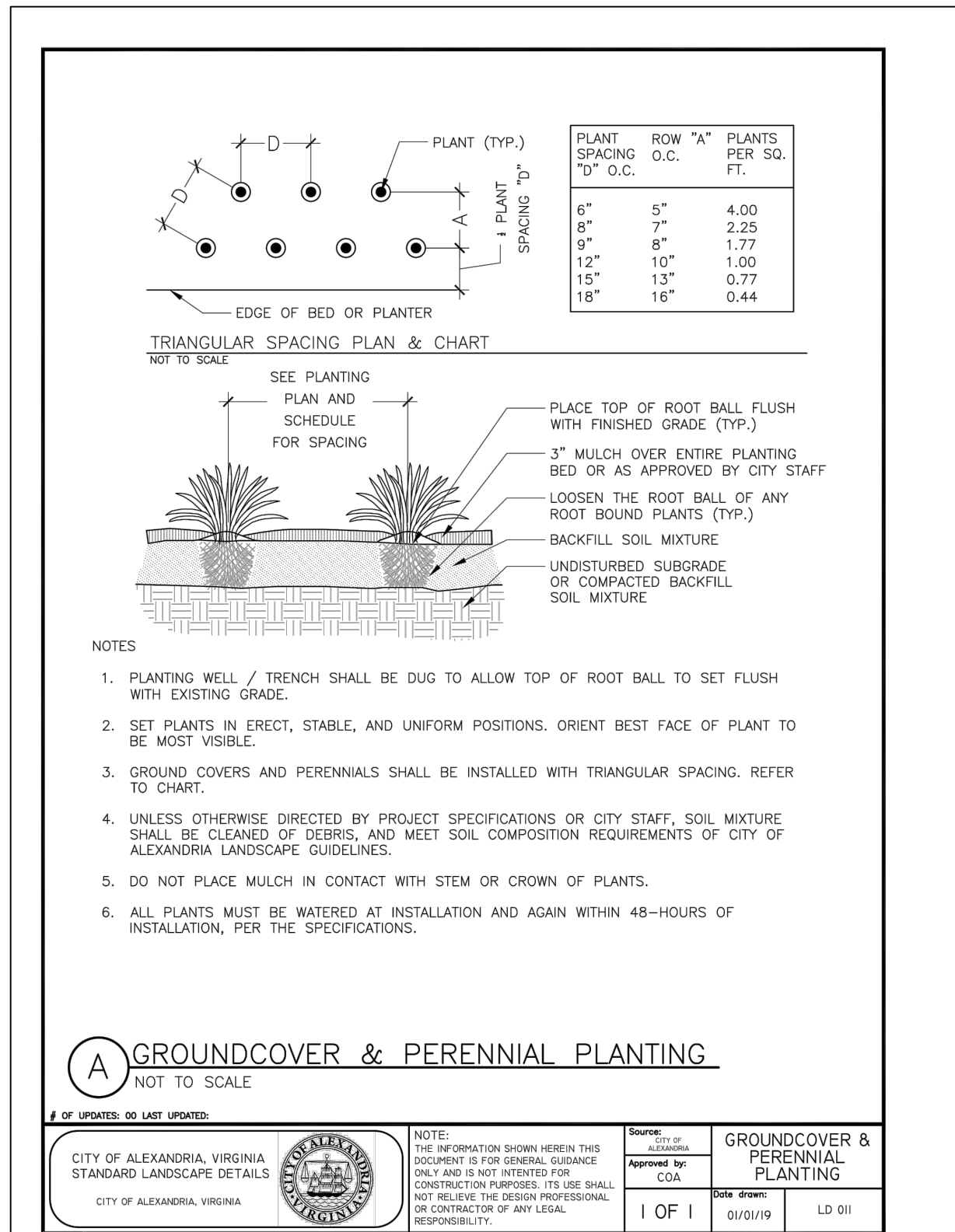
- ALL PROTECTION AND PRESERVATION MEASURES FOR EXISTING VEGETATION, INCLUDING MAINTENANCE SHALL BE APPROVED BY THE CITY ARBORIST IN-FIELD PRIOR TO COMMENCEMENT OF ANY SITE DISTURBING ACTIVITY. SPECIFICATION FOR ALL PLANTINGS SHALL BE IN ACCORDANCE WITH THE CURRENT AND MOST UP TO DATE EDITION OF ANSI-Z60.1, THE AMERICAN STANDARD FOR NURSERY STOCK AS PRODUCED BY THE AMERICAN ASSOCIATION OF NURSEYMEN; WASHINGTON, DC.
- THE APPLICANT HAS MADE SUITABLE ARRANGEMENTS FOR PRE-SELECTION TAGGING, PRE-CONTRACT GROWING, OR IS UNDERTAKING SPECIALIZED PLANTING STOCK DEVELOPMENT WITH A NURSERY OR GROWER THAT IS CONVENIENTLY LOCATED TO THE PROJECT SITE, OTHER PROCEDURES THAT WILL ENSURE AVAILABILITY OF SPECIFIED MATERIALS. IN THE EVENT THAT SHORTAGES AND/OR INABILITY TO OBTAIN SPECIFIED PLANTINGS OCCURS, REMEDIAL EFFORTS INCLUDING SPECIES CHANGES, ADDITIONAL PLANTINGS AND MODIFICATION TO THE LANDSCAPE PLAN SHALL BE UNDERTAKEN BY THE APPLICANT. ALL REMEDIAL EFFORTS SHALL, WITH PRIOR APPROVAL BY THE CITY, BE PERFORMED TO THE SATISFACTION OF THE DIRECTORS OF PLANNING & ZONING, RECREATION, PARKS & CULTURAL ACTIVITIES AND TRANSPORTATION & ENVIRONMENTAL SERVICES.
- IN LIEU OF MORE STRENUOUS SPECIFICATIONS, ALL LANDSCAPE RELATED WORK SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE CURRENT AND MOST UP-TO-DATE EDITION (AT TIME OF CONSTRUCTION) OF LANDSCAPE SPECIFICATION GUIDELINES AS PRODUCED BY THE LANDSCAPE CONTRACTORS ASSOCIATION OF MARYLAND, DISTRICT OF COLUMBIA AND VIRGINIA; GAITHERSBURG, MARYLAND.
- PRIOR TO COMMENCEMENT OF LANDSCAPE INSTALLATION/PLANTING OPERATIONS, A PRE-INSTALLATION/CONSTRUCTION MEETING WILL BE SCHEDULED WITH THE CITY'S ARBORIST AND LANDSCAPE ARCHITECTS TO REVIEW THE SCOPE OF INSTALLATION PROCEDURES AND PROCESSES.
- MAINTENANCE FOR THIS PROJECT SHALL BE PERFORMED IN PERPETUITY, IN COMPLIANCE WITH CITY OF ALEXANDRIA LANDSCAPE GUIDELINES AND/OR AS CONDITIONED BY PROJECT APPROVAL.
- A CERTIFICATION LETTER FOR TREE WELLS, TREE TRENCHES AND PLANTINGS ABOVE STRUCTURE SHALL BE PROVIDED BY THE PROJECT'S LANDSCAPE ARCHITECT. THE LETTER SHALL CERTIFY THAT ALL BELOW GRADE CONSTRUCTION IS IN COMPLIANCE WITH APPROVED DRAWINGS AND SPECIFICATIONS. THE LETTER SHALL BE SUBMITTED TO THE CITY ARBORIST AND APPROVED PRIOR TO APPROVAL OF THE LAST AND FINAL CERTIFICATE OF OCCUPANCY FOR THE PROJECT. THE LETTER SHALL BE SUBMITTED BY THE OWNER/APPLICANT/SUCCESSOR AND SEALED AND DATED AS APPROVED BY THE PROJECT'S LANDSCAPE ARCHITECT.
- AS-BUILT DRAWINGS FOR THIS LANDSCAPE AND/OR IRRIGATION/WATER MANAGEMENT SYSTEM WILL BE PROVIDED IN COMPLIANCE WITH CITY OF ALEXANDRIA LANDSCAPE GUIDELINES. AS-BUILT DRAWINGS SHALL INCLUDE CLEAR IDENTIFICATION OF ALL VARIATION(S) AND CHANGES FROM APPROVED DRAWINGS INCLUDING LOCATION, QUANTITY AND SPECIFICATION OF ALL PROJECT ELEMENTS.
- THE APPLICANT/DEVELOPER SHALL CALL ALEXANDRIA ARCHAEOLOGY IMMEDIATELY (703-746-4399) IF ANY BURIED STRUCTURAL REMAINS (WALL FOUNDATIONS, WELLS, PRIVIES, CISTERNS, ETC.) OR CONCENTRATIONS OF ARTIFACTS ARE DISCOVERED DURING DEVELOPMENT. WORK MUST CEASE IN THE AREA OF THE DISCOVERY UNTIL A CITY ARCHAEOLOGIST COMES TO THE SITE AND RECORDS THE FINDS.
- THE APPLICANT/DEVELOPER SHALL NOT ALLOW ANY METAL DETECTION TO BE CONDUCTED ON THE PROPERTY, UNLESS AUTHORIZED BY ALEXANDRIA ARCHAEOLOGY.



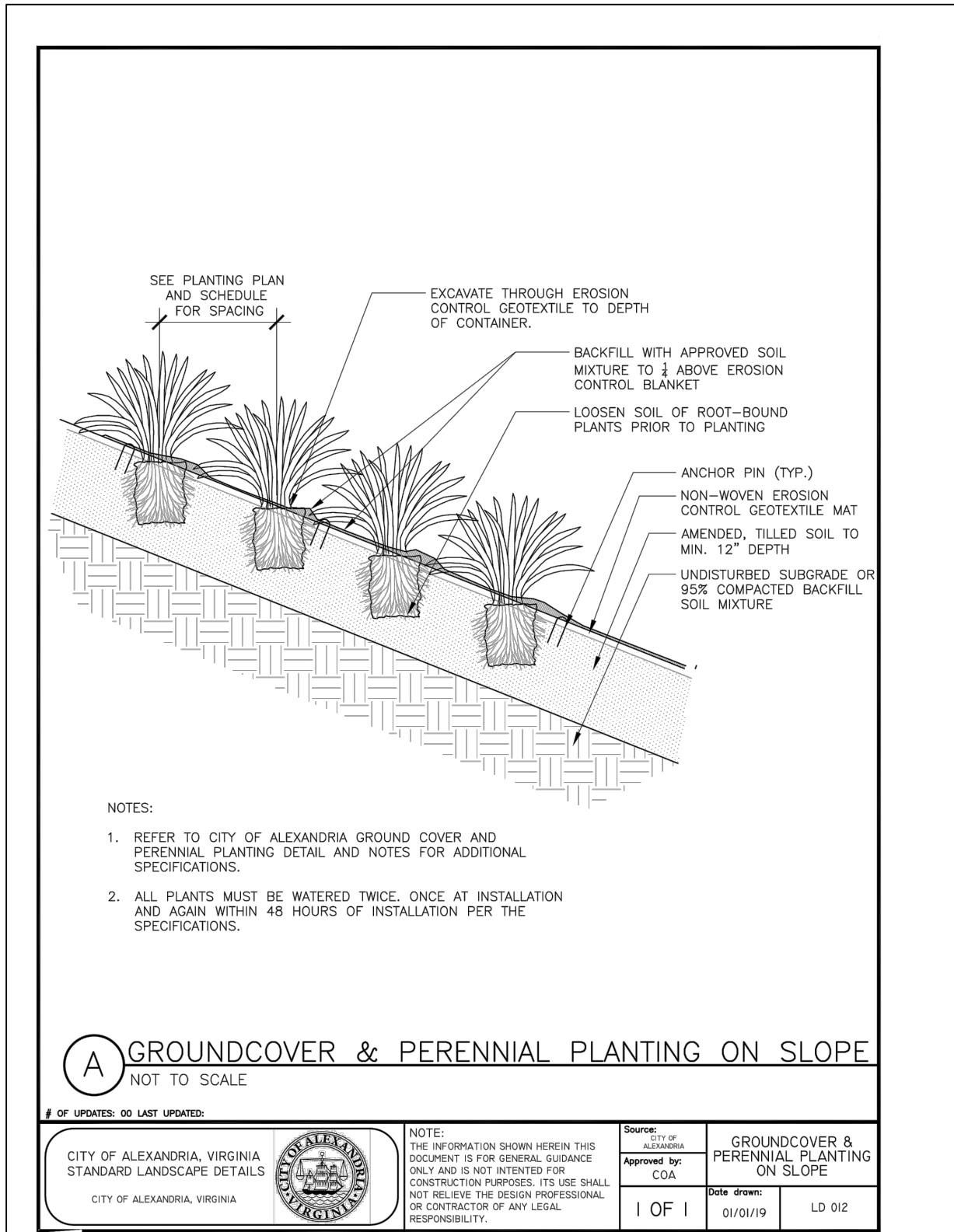
1 SHRUB PLANTING NTS



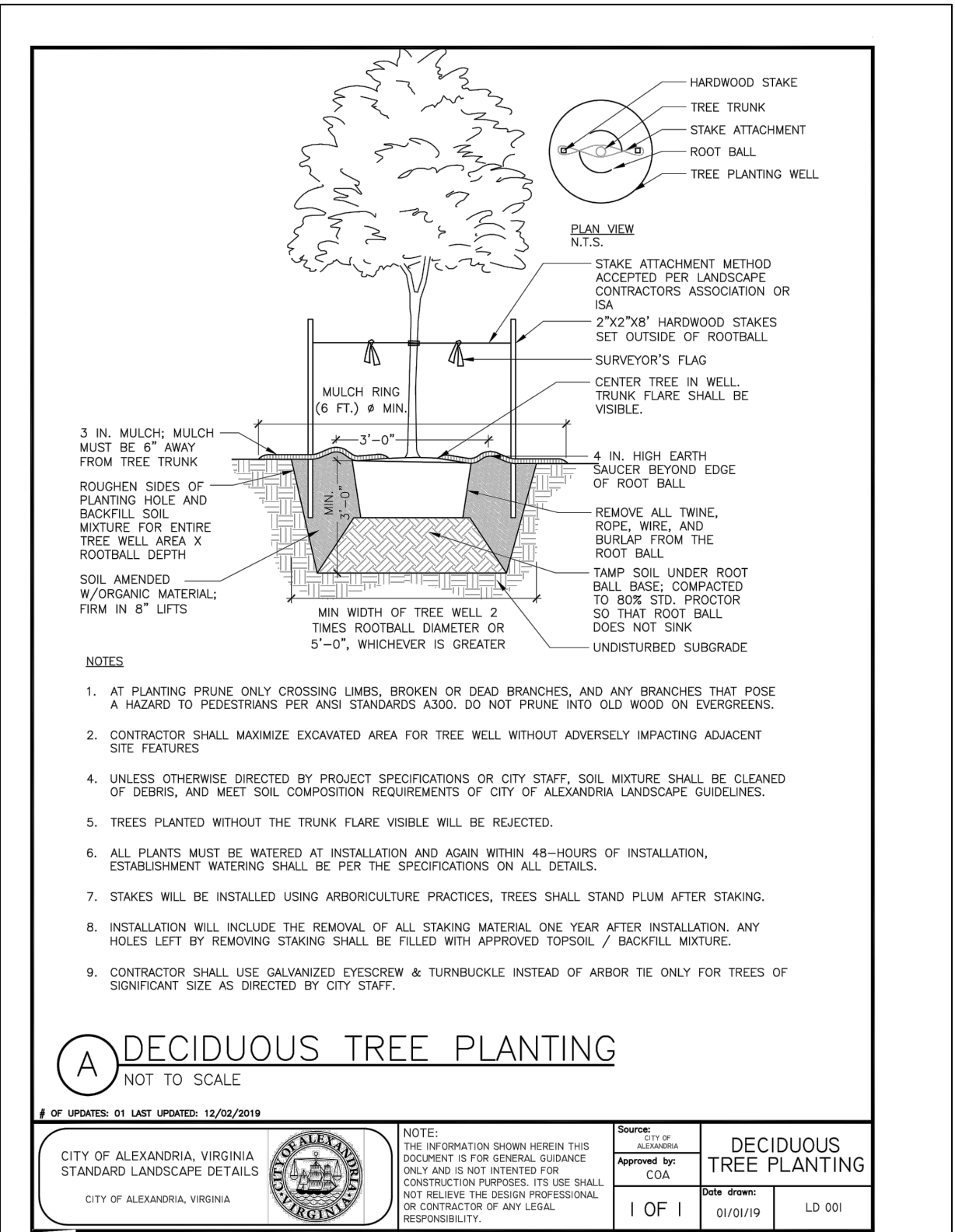
2 SHRUB PLANTING ON SLOPE NTS



3 GROUNDCOVER & PERENNIAL PLANTING NTS



4 GROUNDCOVER & PERENNIAL PLANTING ON SLOPE NTS



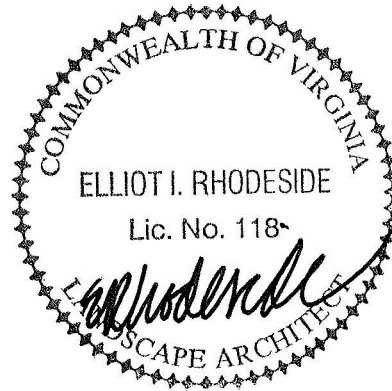
5 DECIDUOUS TREE PLANTING NTS

NOTE: SEE CIVIL PLANS AND DETAILS FOR HARDSCAPE

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. _____	

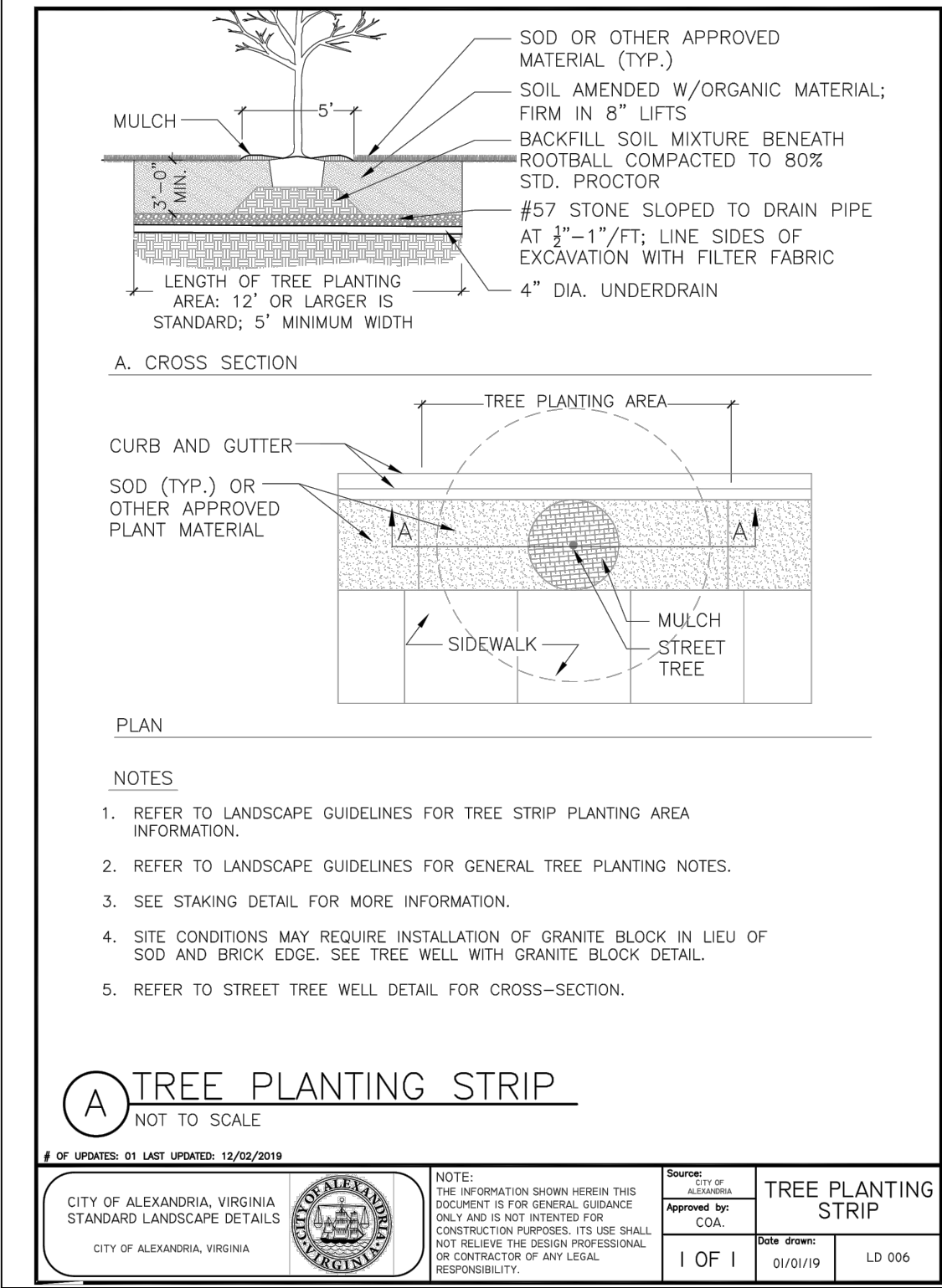
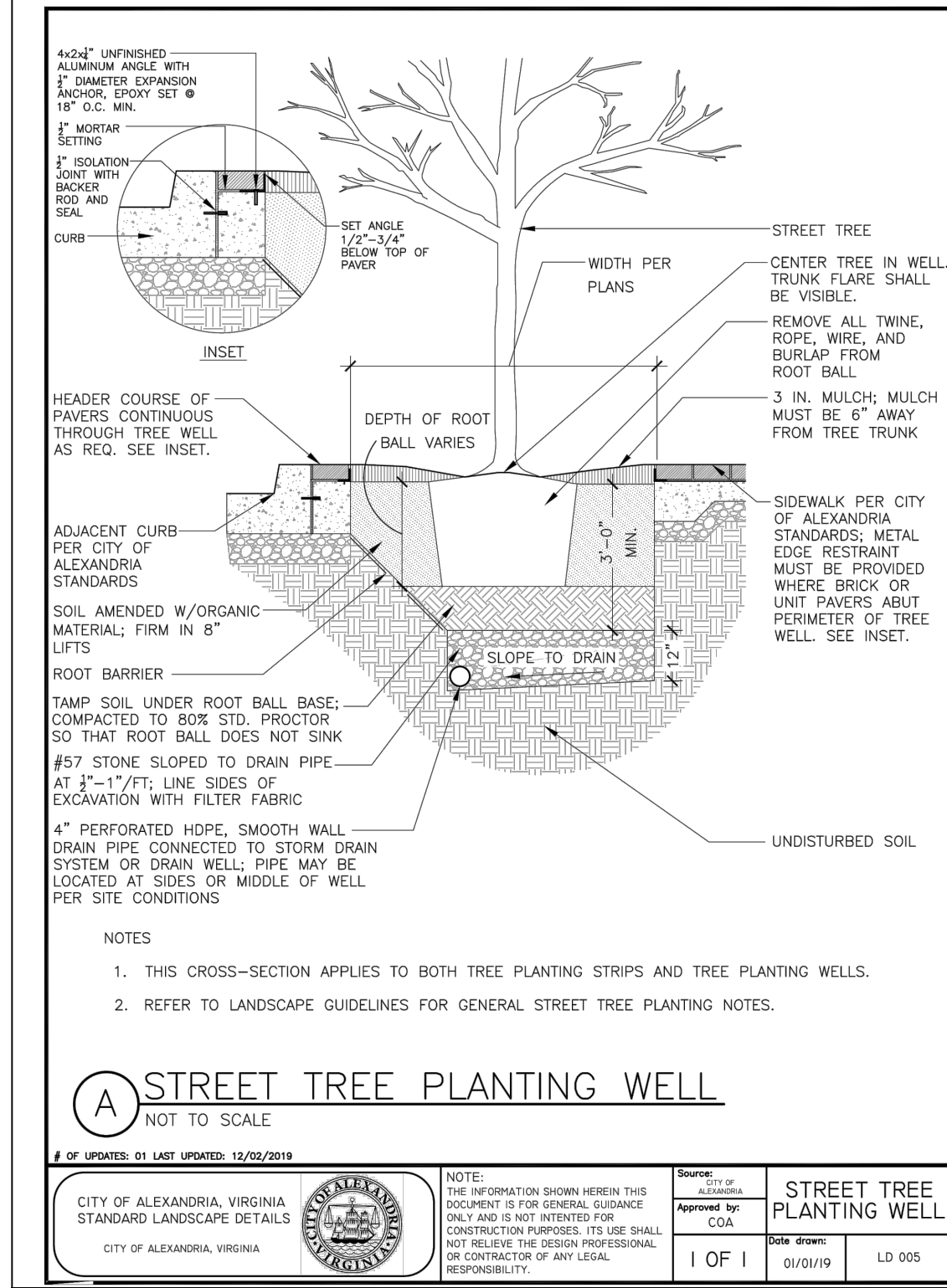
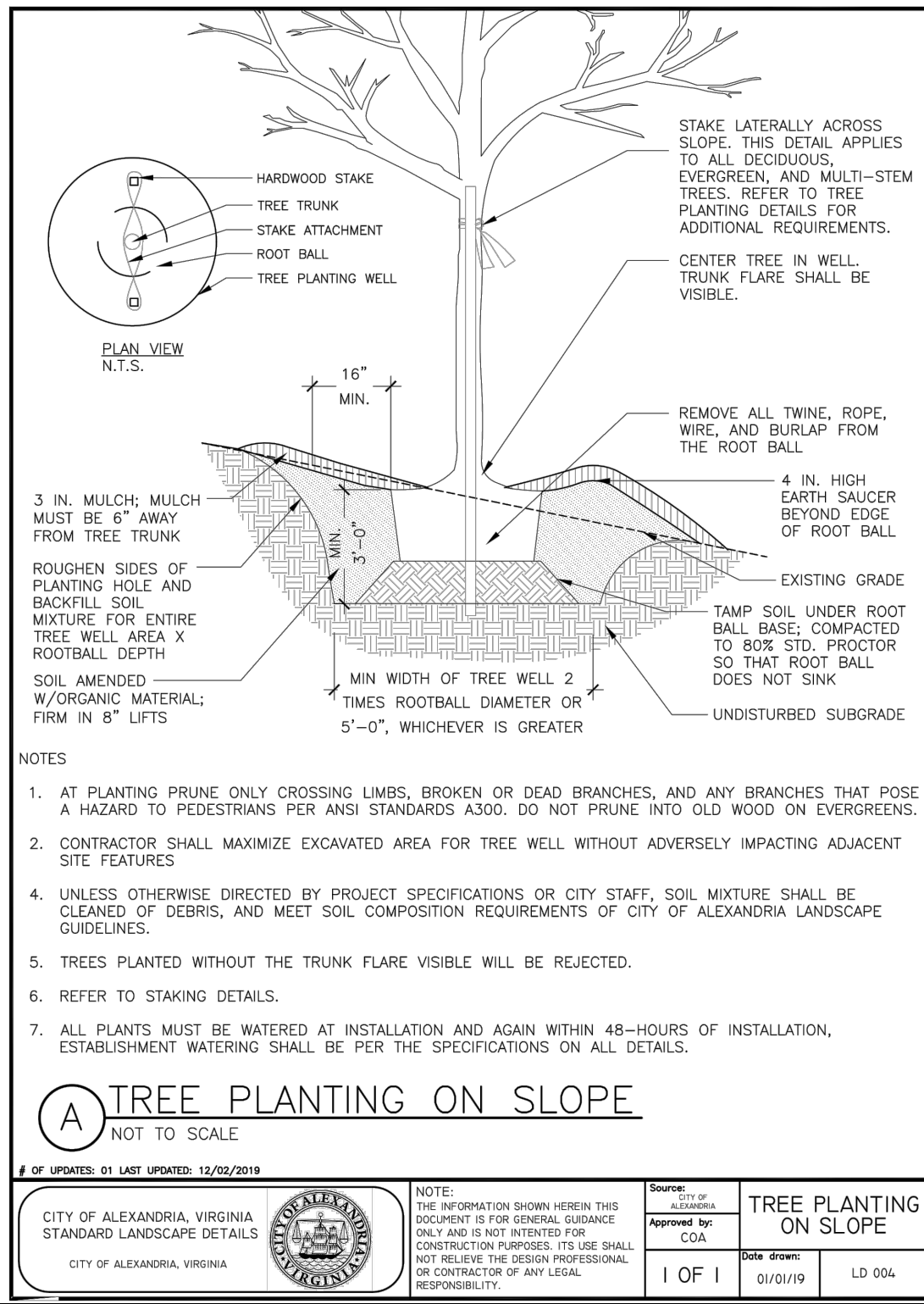
PROFESSIONAL CERTIFICATION:
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A FULLY LICENSED PROFESSIONAL LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF VIRGINIA.

LICENSE NO.: 118
EXPIRATION DATE: 1/31/2021

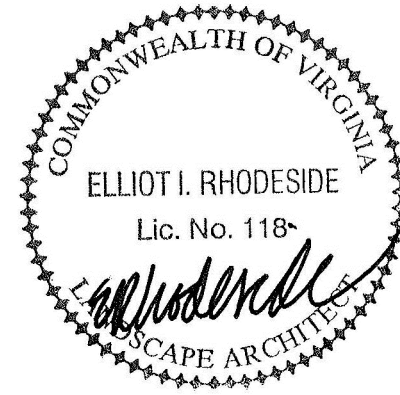
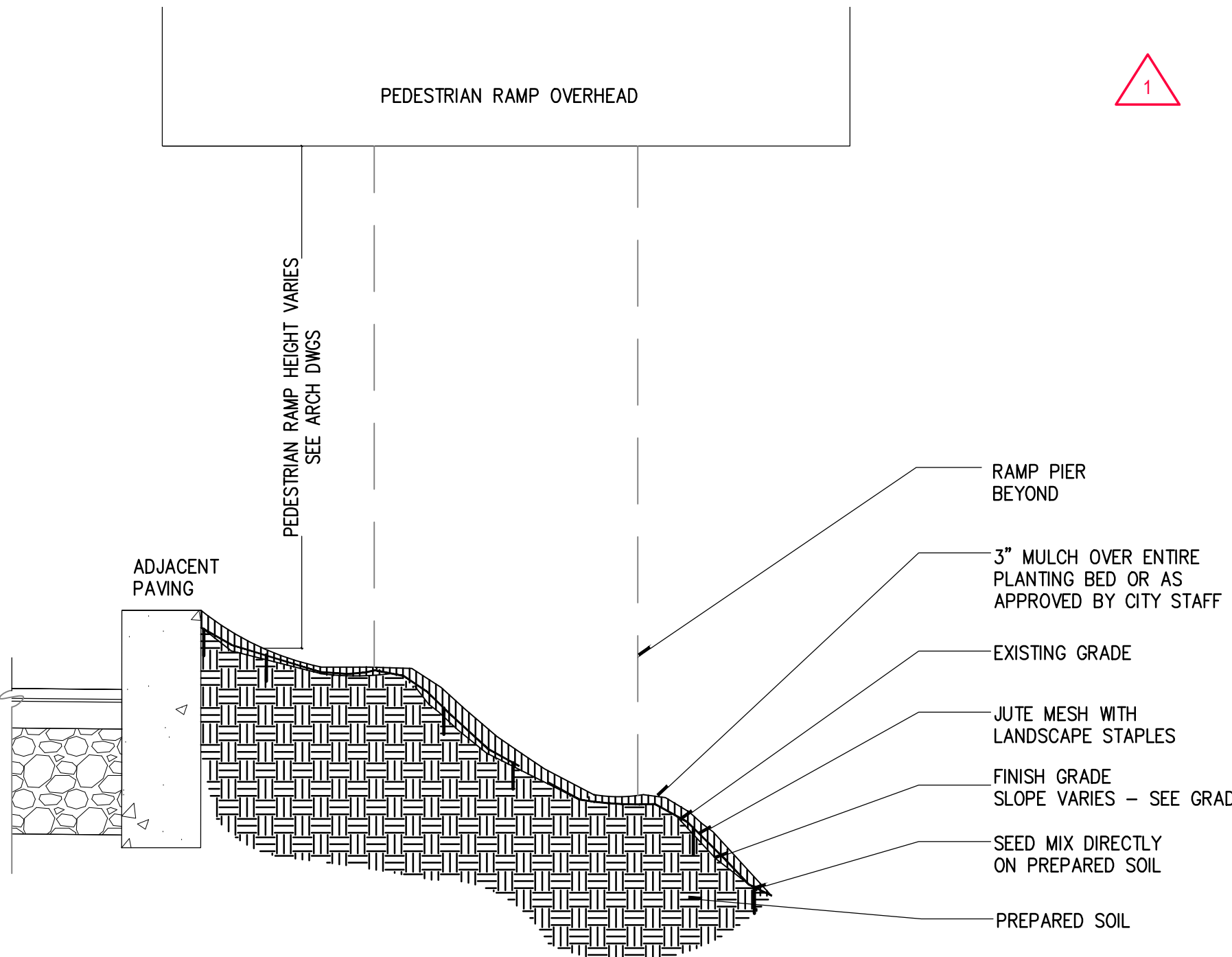


FILE <

8/31/2020 11:45 AM FILE PATH: P:\POTOMAC YARD METRO STATION DB PRE-DESIGN PHASE 4690177 CAD FSP S PAV



9 MEADOW SEEDING ON SLOPE - TYPICAL
NTS



PROFESSIONAL CERTIFICATION:
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A FULLY LICENSED PROFESSIONAL LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF VIRGINIA.

LICENSE NO.: 118
EXPIRATION DATE: 1/31/2021

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES
OFFICE OF THE CHIEF ENGINEER, INFRASTRUCTURE

POTOMAC YARD METRORAIL STATION
LANDSCAPE
SOUTH PAVILION
PLANTING DETAILS

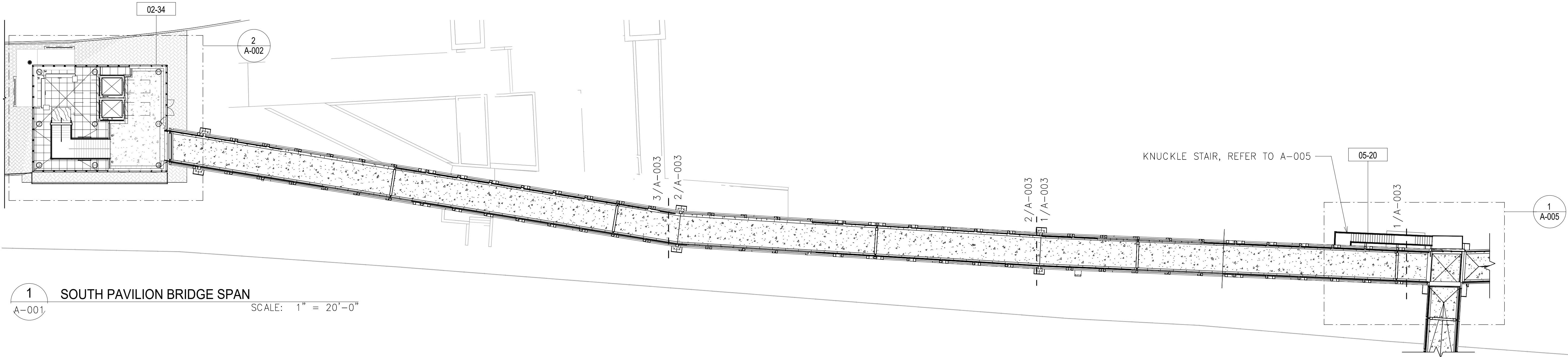
SUBMITTED _____ DATE _____
APPROVED _____ DATE _____
DIRECTOR _____



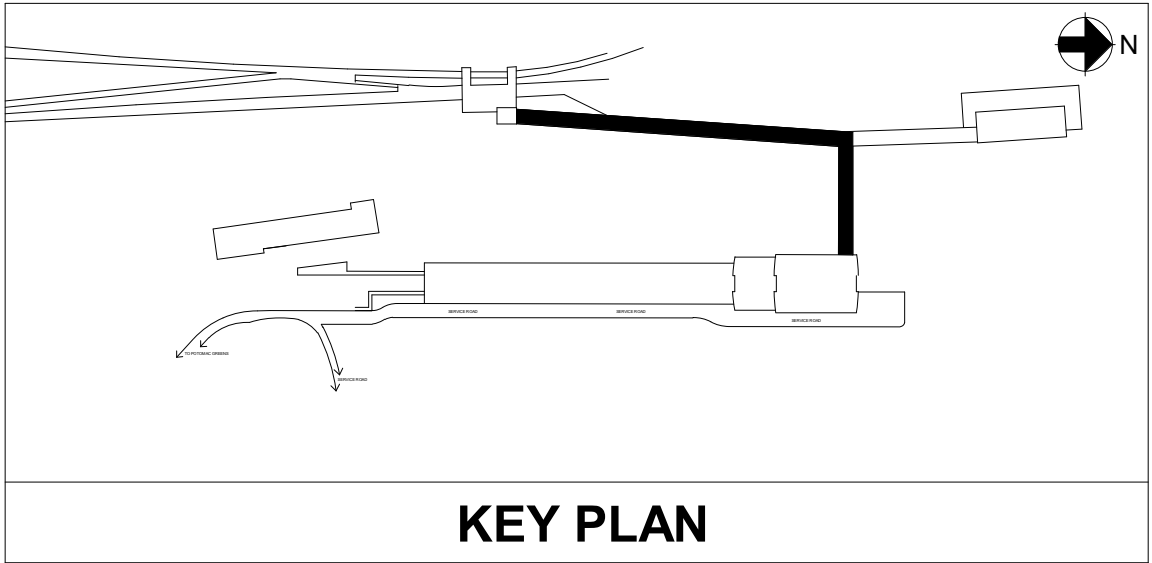
M NO.	CONTRACT NO.	SCALE:	DRAWING NO.	SHEET NO.
M1316	FQ16146	NTS	L-502	52 OF 60

10/7/2020 11:55:28 AM C:\Users\cme\gan\Documents\18-1260 - POTOMAC YARD METRO_MCP_2019 - P13 - Bridge & Ramp_christie.melgar.rvt

SHEET KEYNOTES	
MARK	NOTE
02-34	SOUTH PAVILION, REFER TO STATION PACKAGE 14
05-20	PAINTED STL STAIR, SS GUARDRAIL AND ENCLOSURE W/ SS MESH INFILL, AND SS HANDRAILS



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. _____	



PROFESSIONAL CERTIFICATION:
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A FULLY LICENSED PROFESSIONAL ARCHITECT UNDER THE LAWS OF THE COMMONWEALTH OF VIRGINIA.

LICENSE NO.
EXPIRATION DATE:

DESIGNED	A. PARAON	10/06/20	REFERENCE DRAWINGS		REVISIONS		
			NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION
DRAWN	G. ENGUILLADO	10/06/20			10/07/2020	1	FSP #2 REV 01
CHECKED	B. FLYNN	10/06/20					
APPROVED	G. THOMAS	10/06/20					

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES
OFFICE OF THE CHIEF ENGINEER, INFRASTRUCTURE

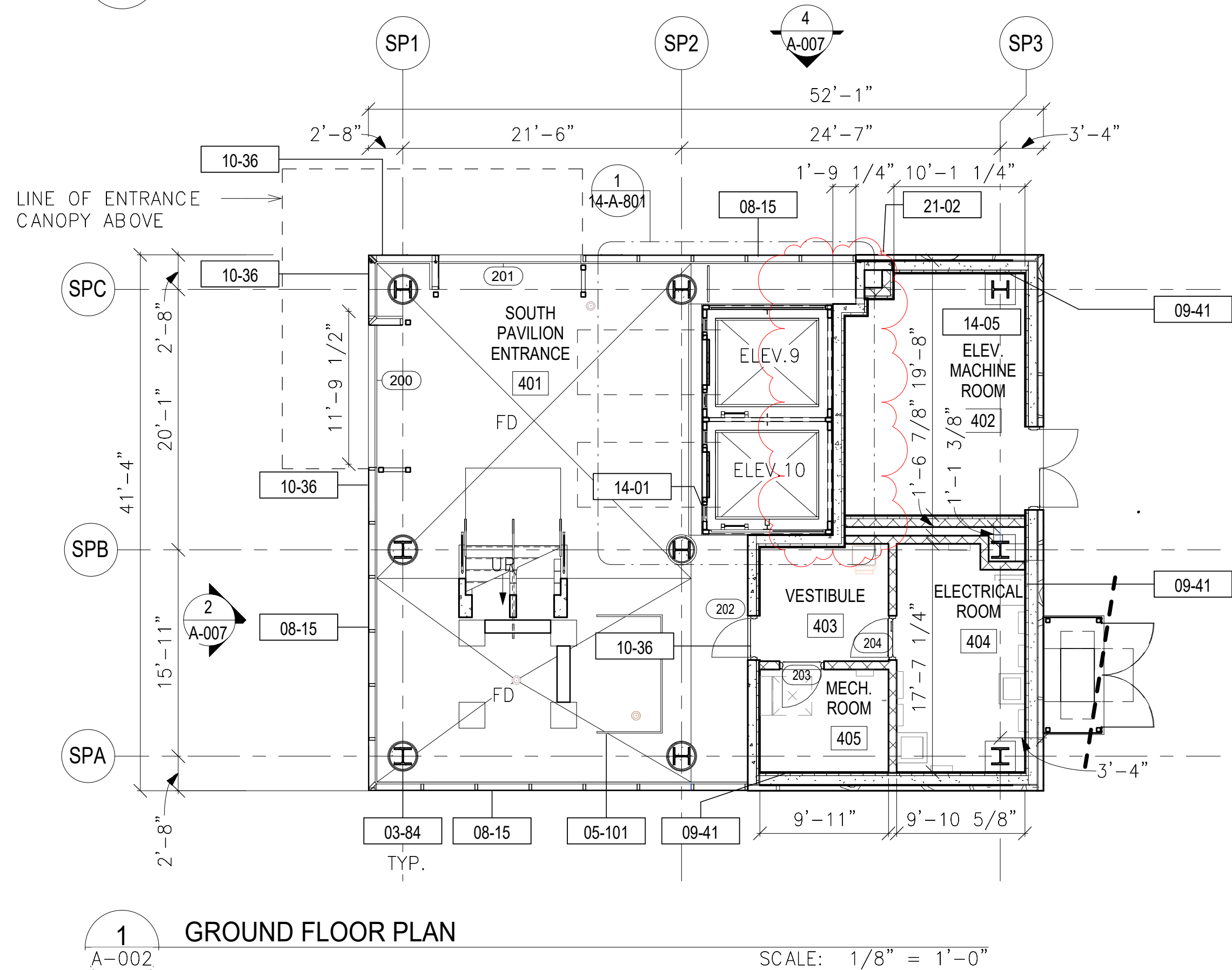
SUBMITTED _____ DATE _____
APPROVED _____ DATE _____
DIRECTOR



ARUP

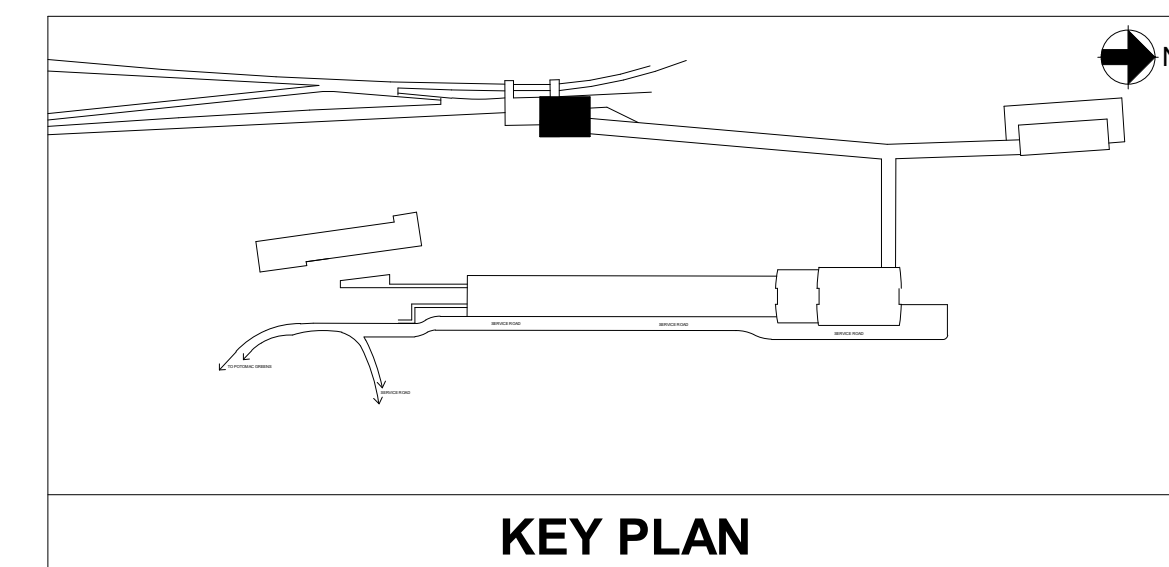
WMATA POTOMAC YARD METRORAIL STATION
ARCHITECTURAL
PEDESTRIAN BRIDGE AND RAMP
SOUTH PAVILION BRIDGE SPAN AND KNUCKLE OVERALL PLAN

M NO.	CONTRACT NO.	SCALE:	DRAWING NO.	SHEET NO.
M1316	FQ16146		A-001	53 OF 60



SHEET KEYNOTES	
MARK	NOTE
02-27	REFER TO BRIDGE PACKAGE 13
03-84	ROUND CONCRETE BASE AT COLUMNS WITH FINISH TYPE CF2 (SMOOTH FORM FINISH). EXTERIOR COLUMN BASES SHOULD ALSO RECEIVE A SEALER FINISH.
04-16	STONE FINISH TYPE ST1, LOCAL ROUGH-CUT 4-5" STONE VENEER OVER MORTAR OVER ADJUSTABLE ANCHORS AT APPROX. 16' O.C. VERTICALLY AND HORIZONTALLY OVER 1/2" DRAINAGE BOARD OVER VAPOR BARRIER OVER CONC BACK UP WALL, REFER TO STRUCTURAL
05-71	STAINLESS STEEL (TYPE MT1) GUARDRAIL WITH FRAMED WOVEN METAL MESH PANEL BALUSTRADE (TYPE WM2)(GKD METAL FABRIC), REFER TO DETAIL 5/14-A-702
05-90	METAL PANEL CANOPY
05-101	STAINLESS STEEL (TYPE MT1) GUARDRAIL
08-15	NOMINAL 5 3/4" x 2 1/2" CURTAIN WALL SYSTEM WITH GLAZING TYPE GL1; CLEAR LAMINATED FULLY TEMPERED FLOAT GLASS
09-41	2" Z-GIRT FURRING W/ 1/2" THK CONTINUOUS INSULATION (MIN R-9.5) ENCLOSED BY 2 LAYERS OF 5/8" MOISTURE RESISTANT GYP. BD. AT INTERIOR
10-36	TYP. SURFACE MOUNTED ROOM ID SIGNAGE, REF TO SIGNAGE PACKAGE
10-40	SURFACE MOUNTED SIGNAGE, REF TO SIGNAGE PACKAGE
10-49	DIRECTIONAL SIGNAGE, REF TO SIGNAGE PACKAGE AND SHEET 14-A-530
10-50	DIGITAL MEDIA DISPLAY, REFER TO SIGNAGE PACKAGE.
10-52	DIRECTIONAL SIGNAGE, REF TO SIGNAGE PACKAGE
14-01	GLASS AND STEEL ELEVATOR SHAFT WITH TWO HYDRAULIC ELEVATORS WITH GLASS WALLED CABS.
14-05	ELEVATOR MACHINE ROOM SHALL HAVE 7.5' MINIMUM CLEARANCE TO LOWEST OBSTRUCTION
21-02	FDC LOCATION, REF TO FIRE SUPPRESSION DRAWINGS

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. _____	PAGE NO. _____



PROFESSIONAL CERTIFICATION:
I HEREBY CERTIFY THAT THESE DOCUMENTS
WERE PREPARED OR APPROVED BY ME, AND
THAT I AM A FULLY LICENSED PROFESSIONAL
ARCHITECT UNDER THE LAWS OF THE
COMMONWEALTH OF VIRGINIA.

LICENSE NO. 0401015717
EXPIRATION DATE: 06/30/2021

			REFERENCE DRAWINGS		REVISIONS		
DESIGNED	A. PARAON	10/06/20	NUMBER	DESCRIPTION	DATE	NUM	DESCRIPTION
DRAWN	G. ENGUILLADO	10/06/20			10/07/2020	1	FSP #2 REV 01
CHECKED	B. FLYNN	10/06/20					
APPROVED	G. THOMAS	10/06/20					
		DATE					

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES

OFFICE OF THE CHIEF ENGINEER, INFRASTRUCTURE

SUBMITTED	DATE
APPROVED	DATE
DIRECTOR	DATE

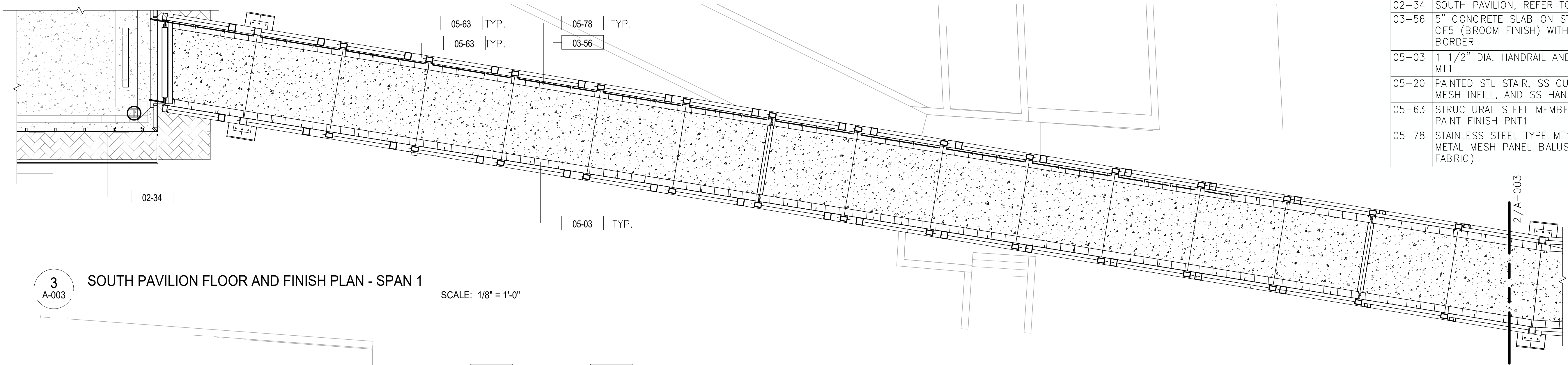


ARUF

WMATA POTOMAC YARD METRORAIL STATION
ARCHITECTURAL
SOUTH PAVILION
FLOOR PLANS

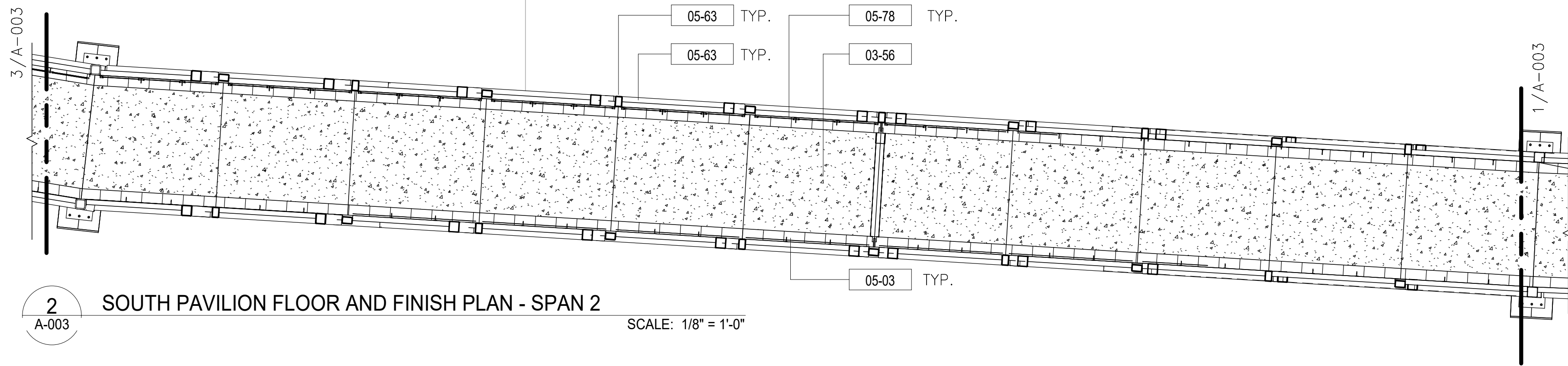
M NO.	CONTRACT NO.	SCALE:	DRAWING NO.	SHEET NO.
M1316	FQ16146		A-002	54 OF 60

10/7/2020 11:52:37 AM C:\Users\cme\gan\Documents\18-1260 - POTOMAC YARD METRO MCP_2019 - P13 - Bridge & Ramp_chrisle.nelgar.rvt



SHEET KEYNOTES	
MARK	NOTE
02-34	SOUTH PAVILION, REFER TO STATION PACKAGE 14
03-56	5" CONCRETE SLAB ON STEEL DECKING WITH FINISH TYPE CF5 (BROOM FINISH) WITH PT2 (PORCELAIN TILE) EDGE BORDER
05-03	1 1/2" DIA. HANDRAIL AND BRACKET, STAINLESS STEEL TYPE MT1
05-20	PAINTED STL STAIR, SS GUARDRAIL AND ENCLOSURE W/ SS MESH INFILL, AND SS HANDRAILS
05-63	STRUCTURAL STEEL MEMBER, REFER TO STRUCTURAL DWGS. PAINT FINISH PNT1
05-78	STAINLESS STEEL TYPE MT1 GUARDRAIL WITH HANDRAIL; WOVEN METAL MESH PANEL BALUSTRADE, TYPE WM2 (GKD METAL FABRIC)

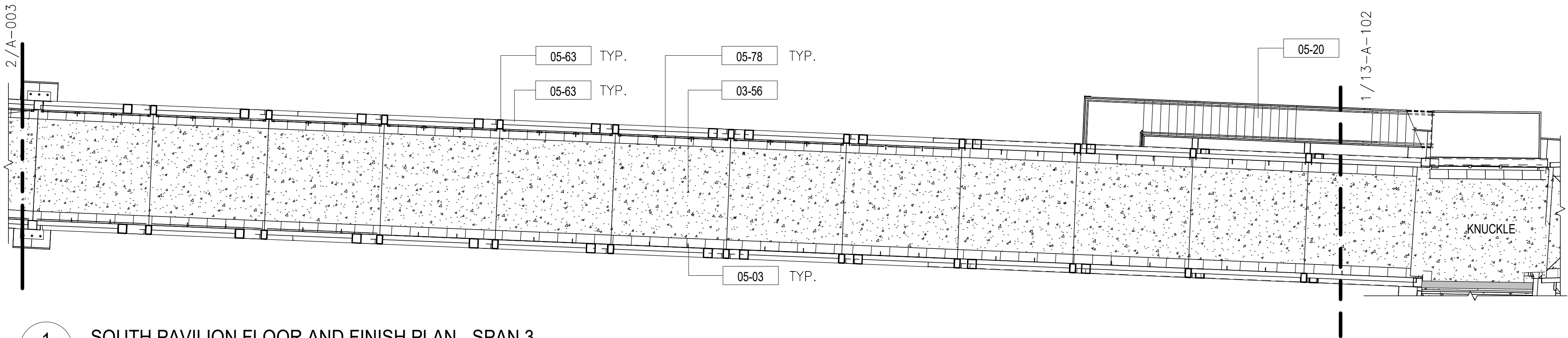
3 SOUTH PAVILION FLOOR AND FINISH PLAN - SPAN 1
A-003 SCALE: 1/8" = 1'-0"



FINISHES LEGEND

	CF5 CONCRETE FINISH BROOM FINISH
	PT2 PORCELAIN TILE - TRANAUT RED 12"x24", STONEPEAK CERAMICS
	PNT1 PAINT - SHERWIN WILLIAMS (SW7643) PUSSY WILLOW

2 SOUTH PAVILION FLOOR AND FINISH PLAN - SPAN 2
A-003 SCALE: 1/8" = 1'-0"



1 SOUTH PAVILION FLOOR AND FINISH PLAN - SPAN 3
A-003 SCALE: 1/8" = 1'-0"

APPROVED

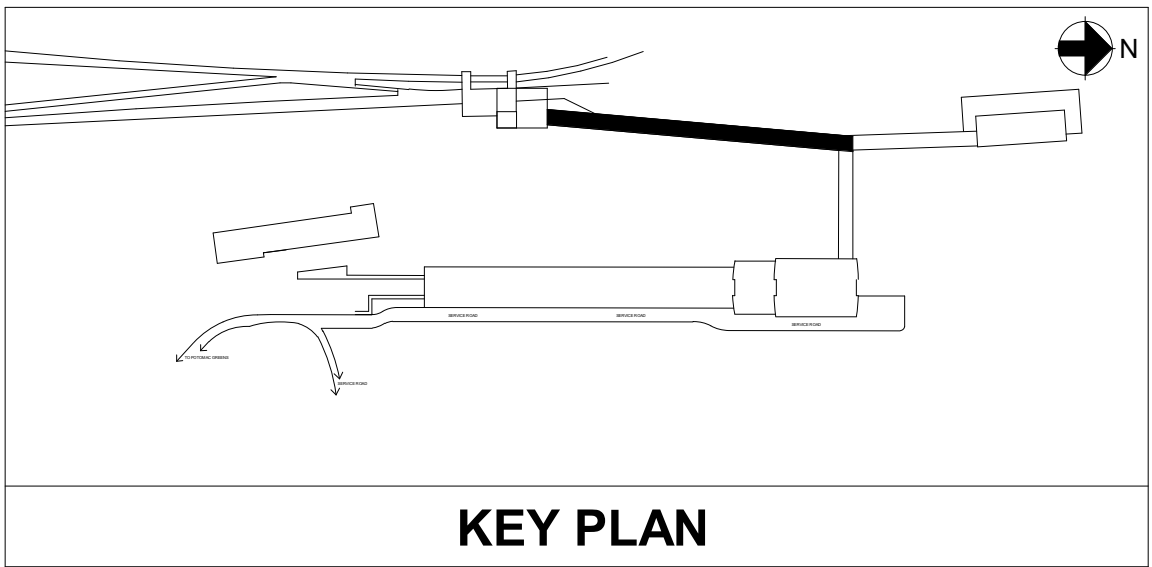
SPECIAL USE PERMIT NO. _____
DEPARTMENT OF PLANNING & ZONING

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. _____



KEY PLAN



PROFESSIONAL CERTIFICATION:
I HEREBY CERTIFY THAT THESE DOCUMENTS
WERE PREPARED OR APPROVED BY ME, AND
THAT I AM A FULLY LICENSED PROFESSIONAL
ARCHITECT UNDER THE LAWS OF THE
COMMONWEALTH OF VIRGINIA.

LICENSE NO. 0401015717
EXPIRATION DATE: 06/30/2021

REFERENCE DRAWINGS			REVISIONS		
DESIGNED	DATE		NUMBER	DATE	DESCRIPTION
A. PARAON	10/06/20				
DRAWN	DATE				
G. ENGUILLADO	10/06/20				
CHECKED	DATE				
B. FLYNN	10/06/20				
APPROVED	DATE				
G. THOMAS	10/06/20				
	DATE				

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES
OFFICE OF THE CHIEF ENGINEER, INFRASTRUCTURE

SUBMITTED _____ DATE _____
APPROVED _____ DATE _____
DIRECTOR _____

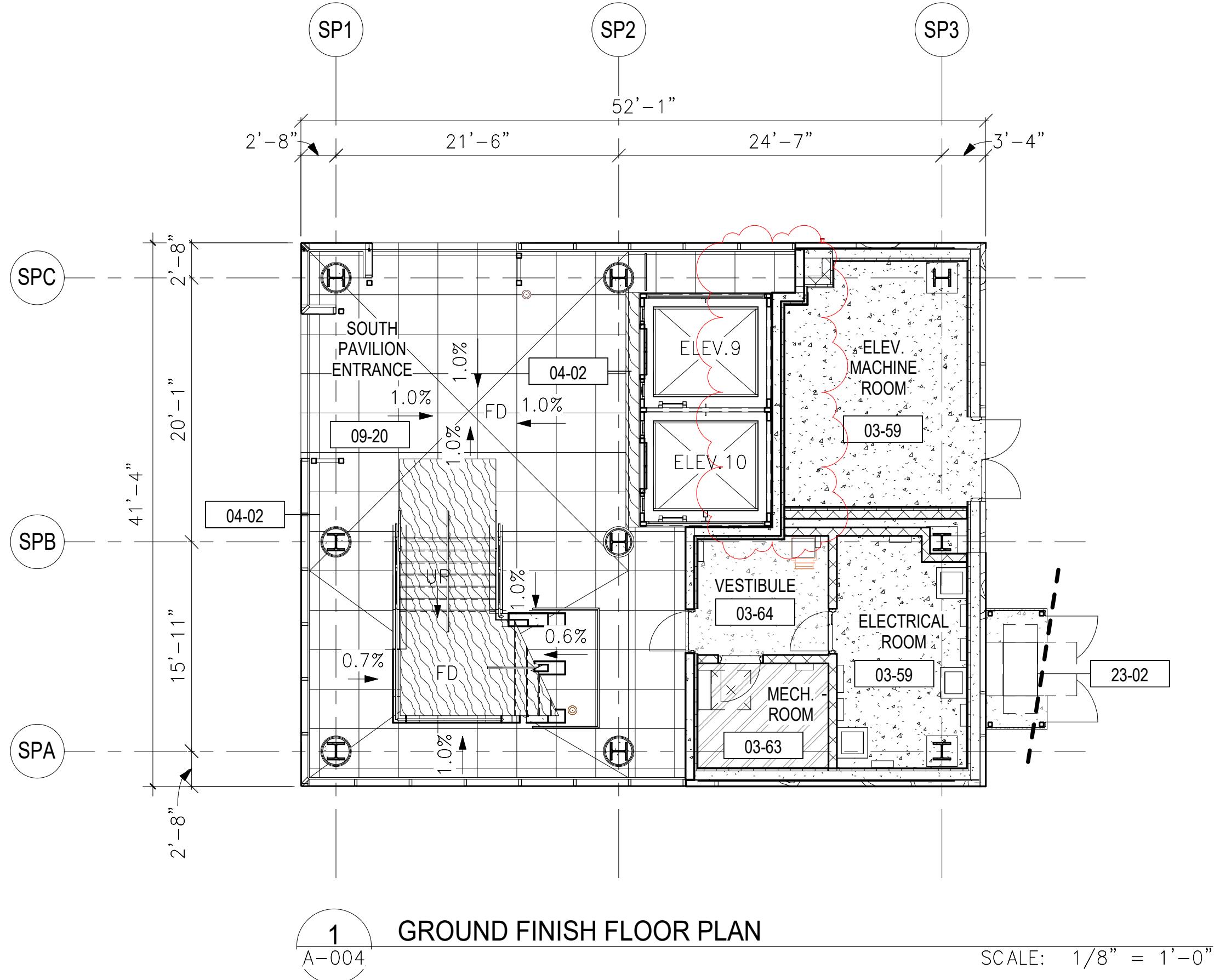
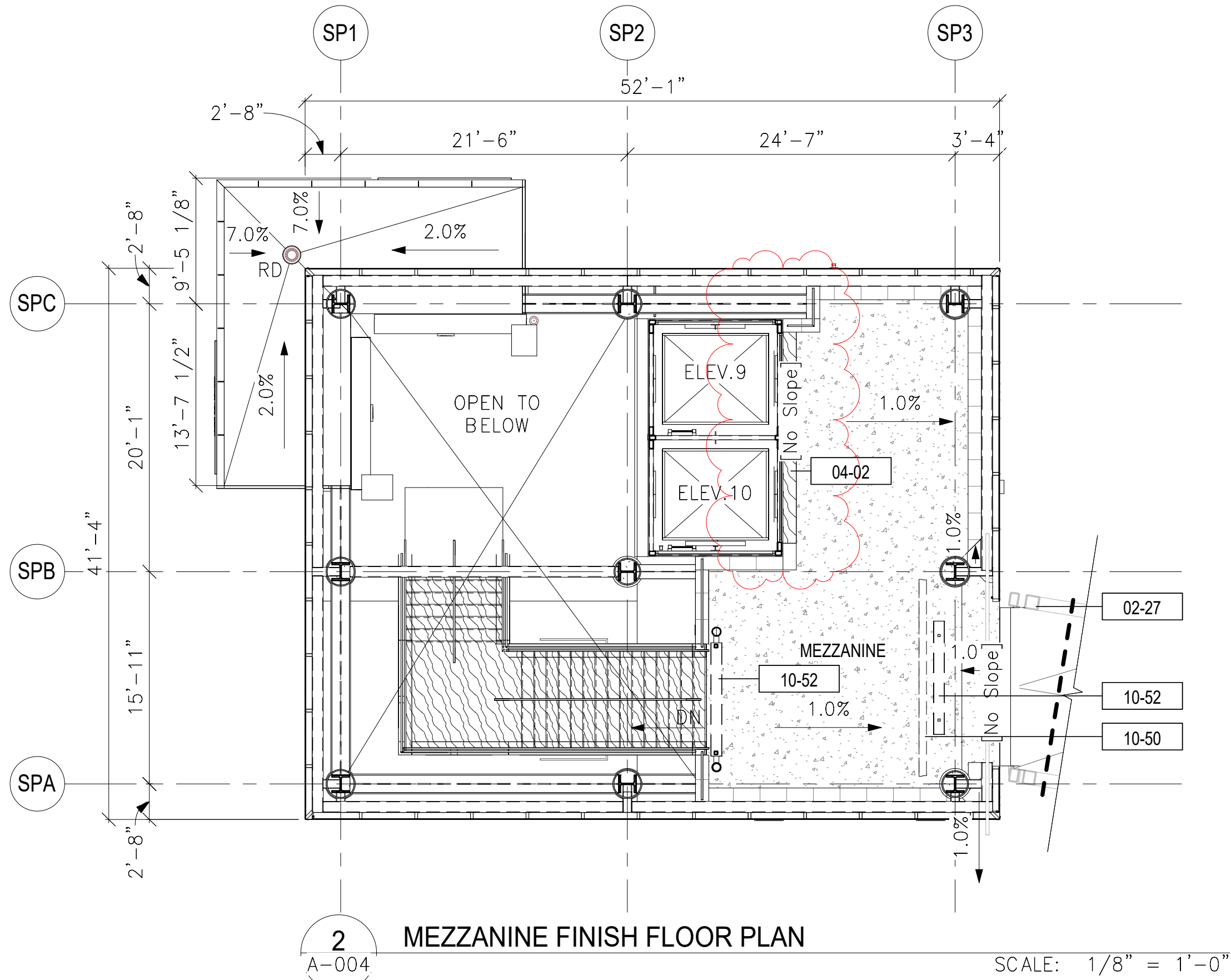


ARUP

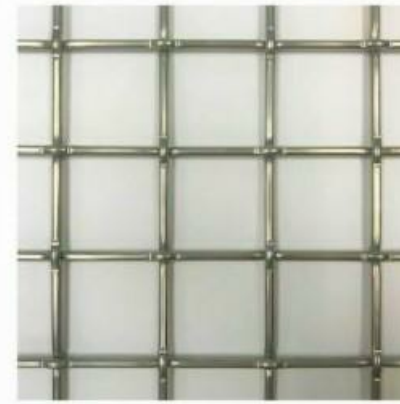
WMATA POTOMAC YARD METRORAIL STATION
ARCHITECTURAL
PEDESTRIAN BRIDGE AND RAMP
S. PAVILION BRIDGE SPAN AND KNUCKLE FINISH PLANS

M NO.	CONTRACT NO.	SCALE:	DRAWING NO.	SHEET NO.
M1316	FQ16146		A-003	55 OF 60

10/7/2020 12:26:31 PM C:\Users\cmelgar\Documents\18-1260_POTOMAC YARD METRO_MCP 2019 - South Pavilion_christie.melgar.rvt



WMATA POTOMAC YARD METRORAIL STATION BAR MATERIAL BOARD



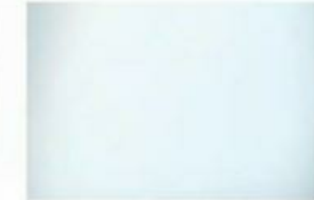
WM2
NAME: POTOMAC SS WIRE MESH
DESCRIPTION: 2" X 2" MAXIMUM WIRE SPACING
LOCATION: FRAMED WOVEN METAL MESH GUARDRAIL
PANELS
MANUF: GKD METAL FABRICS



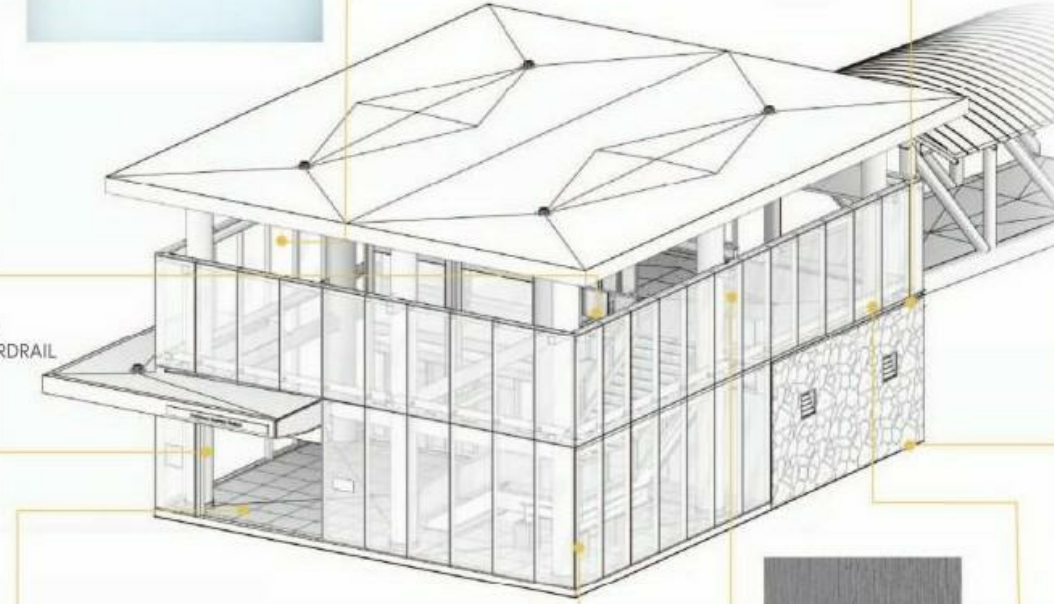
PNT1
NAME: PAINT
COLOR: PUSSY WILLOW
LOCATION: STEEL COLUMNS, STRUCTURAL
MEMBERS, DOORS, DOOR FRAMES
MANUF: SHERWIN WILLIAMS



CP3
NAME: PREST PAVER NATURAL
LOCATION: GROUND FLOOR
MANUF: HANOVER ARCHITECTURAL
PRODUCTS



GL1
NAME: CLEAR LAMINATED FULLY TEMPERED FLOAT GLASS
LOCATION: EXTERIOR CURTAIN WALL PANELS
MANUF: VIRACON



ST2
NAME: PRECAST STONE
COLOR: SMOKEHOUSE
LOCATION: STONE CAPPING
ON STONE VENEER WALLS
MANUF: CAPITAL BRICK



ST1
NAME: LOCAL ROUGH CUT FIELD STONE VENEER
LOCATION: EXTERIOR WALLS
MANUF: CAPITAL BRICK



CF14
NAME: STEEL TROWELED
CONCRETE
WITH SEALER FINISH
LOCATION: MEZZANINE FLOOR



PNT2
NAME: PAINT
COLOR: WICKHAM GRAY
LOCATION: GLAZING MULLIONS
MANUF: BENJAMIN MOORE



PT2
NAME: PORCELAIN TILE
COLOR: TRANAUT RED, 12"x24"
LOCATION: MEZZANINE EDGE BORDER
MANUF: STONEPEAK CERAMICS

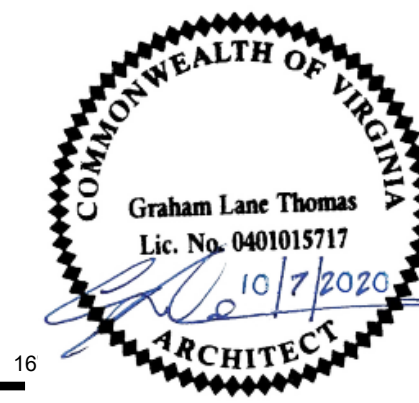
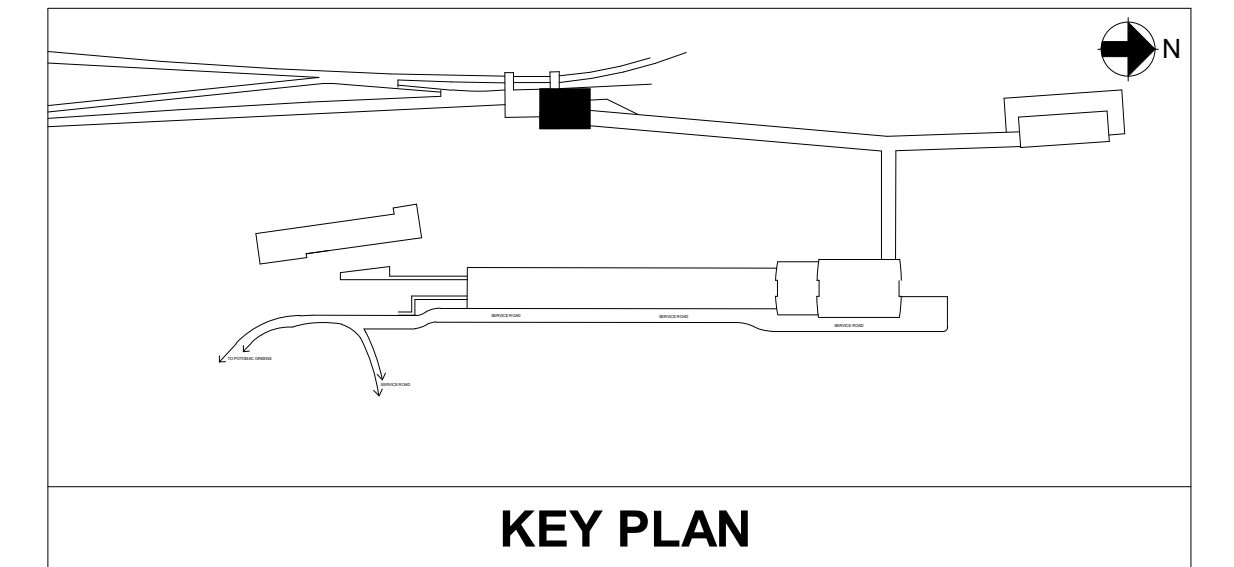
3 PAVILION MATERIALS OVERVIEW A-004

SCALE: NOT TO SCALE

FINISHES LEGEND

	GR1	MT AIRY WHITE - THERMAL FINISH		CP3	PRECAST PAVER - "NATURAL" FINISH
	CF4	CONCRETE FINISH STEEL TROWELED FINISH		PT2	PORCELAIN TILE - TRANAUT RED 12"x24", STONEPEAK CERAMICS
	CF13	CONCRETE FINISH STEEL TROWELED WITH EPOXY COAT FINISH			
	CF14	CONCRETE FINISH STEEL TROWELED WITH SEALER FINISH			

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. _____	



PROFESSIONAL CERTIFICATION:
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A FULLY LICENSED PROFESSIONAL ARCHITECT UNDER THE LAWS OF THE COMMONWEALTH OF VIRGINIA.

LICENSE NO. 0401015717
EXPIRATION DATE: 06/30/2021

0 4' 8' 16'

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES
OFFICE OF THE CHIEF ENGINEER, INFRASTRUCTURE

SUBMITTED _____ DATE _____
APPROVED _____ DATE _____
DIRECTOR

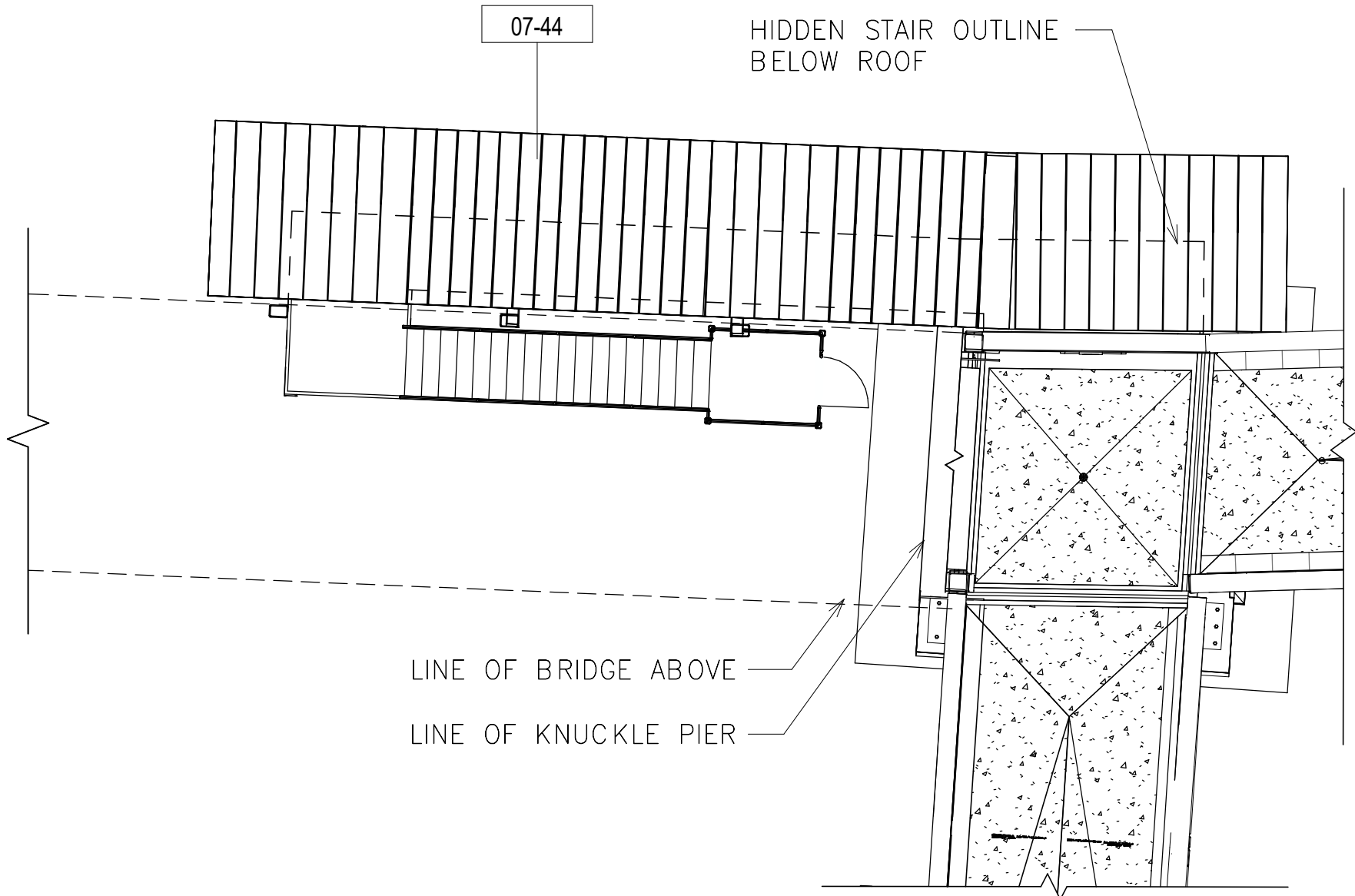


ARUP

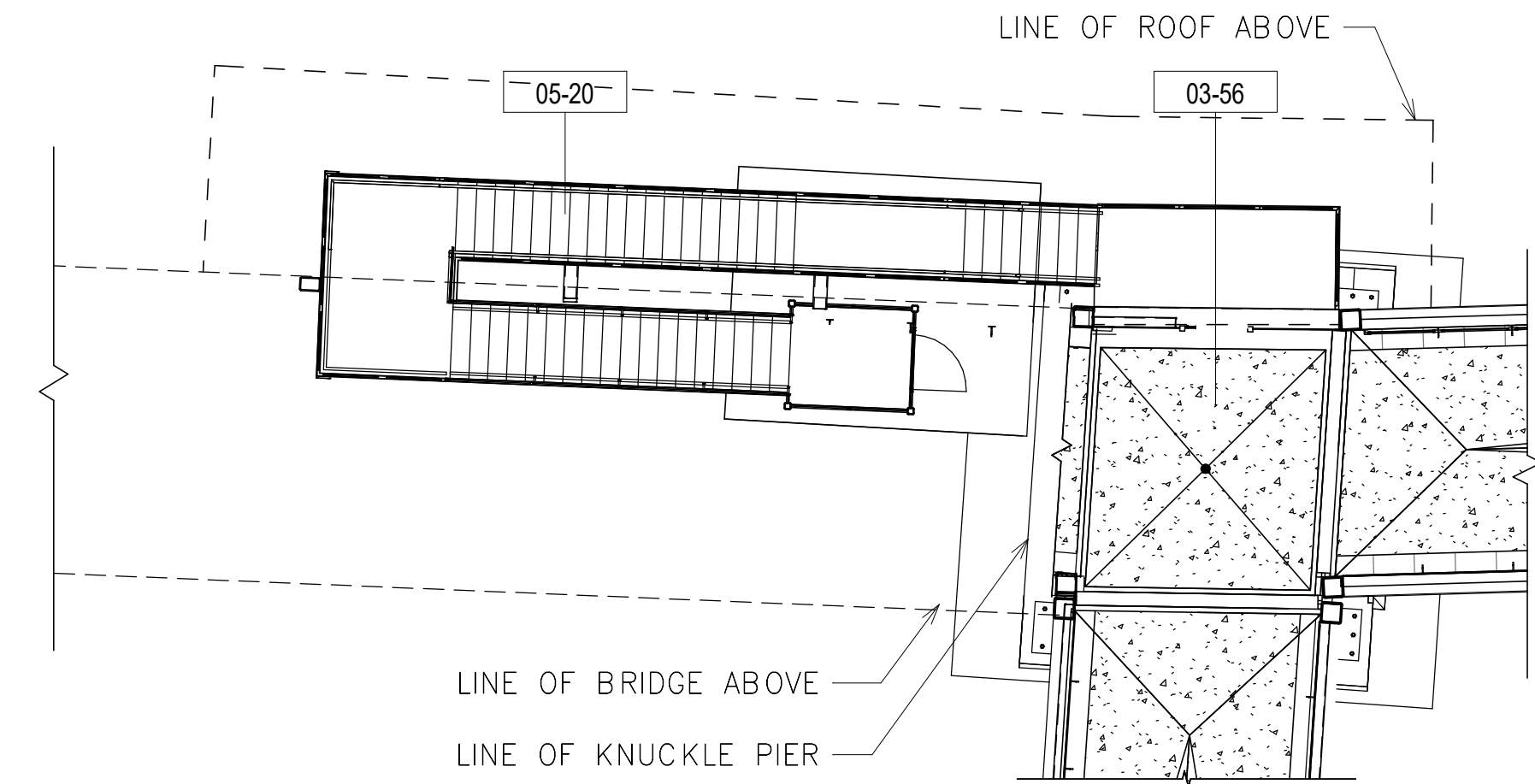
WMATA POTOMAC YARD METRORAIL STATION
ARCHITECTURAL
SOUTH PAVILION
FINISH FLOOR PLANS

M NO.	CONTRACT NO.	SCALE:	DRAWING NO.	SHEET NO.
M1316	FQ16146		A-004	56 OF 60

10/7/2020 11:52:38 AM C:\Users\cme\gan\Documents\18-1260 - POTOMAC YARD METRO MCP_2019 - P13 - Bridge & Ramp_christie.melgar.rvt

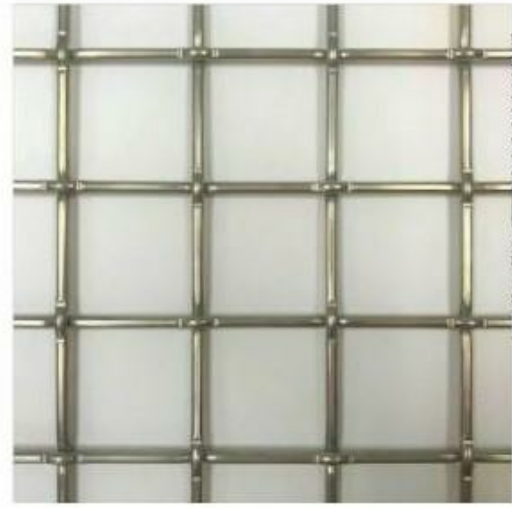


2 KNUCKLE STAIR - ROOF PLAN
SCALE: 1/8" = 1'-0"



1 KNUCKLE STAIR - FLOOR AND FINISH PLAN
SCALE: 1/8" = 1'-0"

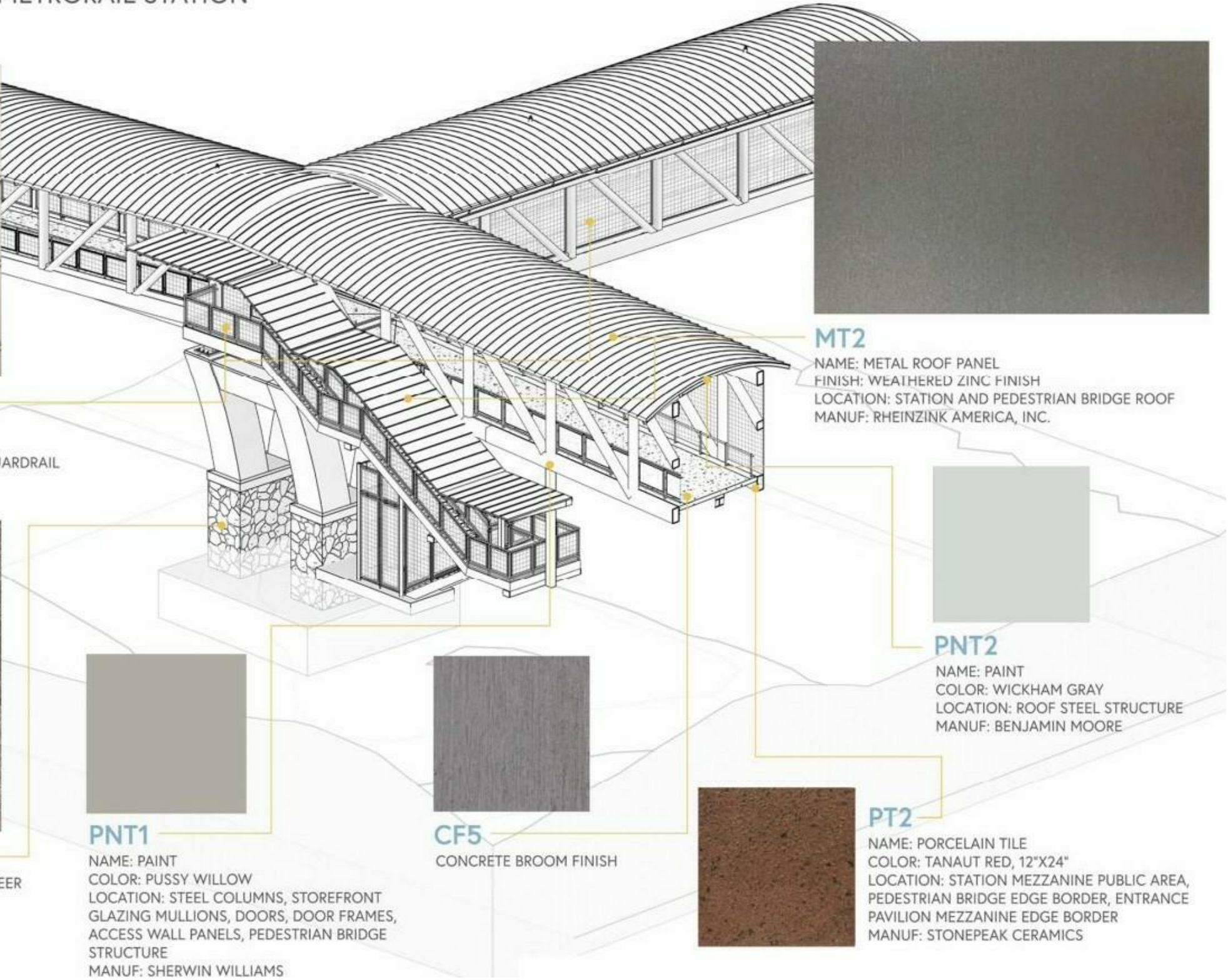
WMATA POTOMAC YARD METRORAIL STATION
BAR MATERIAL BOARD



WM3
NAME: WOVEN METAL MESH
DESCRIPTION: L-62
LOCATION: FRAMED WOVEN METAL MESH GUARDRAIL PANELS, PEDESTRIAN BRIDGE WALL PANELS
MANUF: BANKER WIRE



ST1
NAME: LOCAL ROUGH CUT FIELD STONE VENEER
LOCATION: STATION BASE WALLS, ENTRANCE PAVILLION EXTERIOR WALLS, PEDESTRIAN BRIDGE PIER
MANUF: CAPITAL BRICK



3 KNUCKLE STAIR MATERIALS OVERVIEW
SCALE: NOT TO SCALE

FINISHES LEGEND

- CF5 CONCRETE FINISH BROOM FINISH
- PT2 PORCELAIN TILE - TRANAUT RED 12"x24", STONEPEAK CERAMICS
- PNT1 PAINT - SHERWIN WILLIAMS (SW7643) PUSSY WILLOW

SHEET KEYNOTES	
MARK	NOTE
03-56	5" CONCRETE SLAB ON STEEL DECKING WITH FINISH TYPE CF5 (BROOM FINISH) WITH PT2 (PORCELAIN TILE) EDGE BORDER
05-20	PAINTED STL STAIR, SS GUARDRAIL AND ENCLOSURE W/ SS MESH INFILL, AND SS HANDRAILS
07-44	ROOF TYPE R1, ZINC/ ZINC COATED STANDING SEAM ROOF WITH FINISH TYPE MT2.

APPROVED

SPECIAL USE PERMIT NO. _____
DEPARTMENT OF PLANNING & ZONING

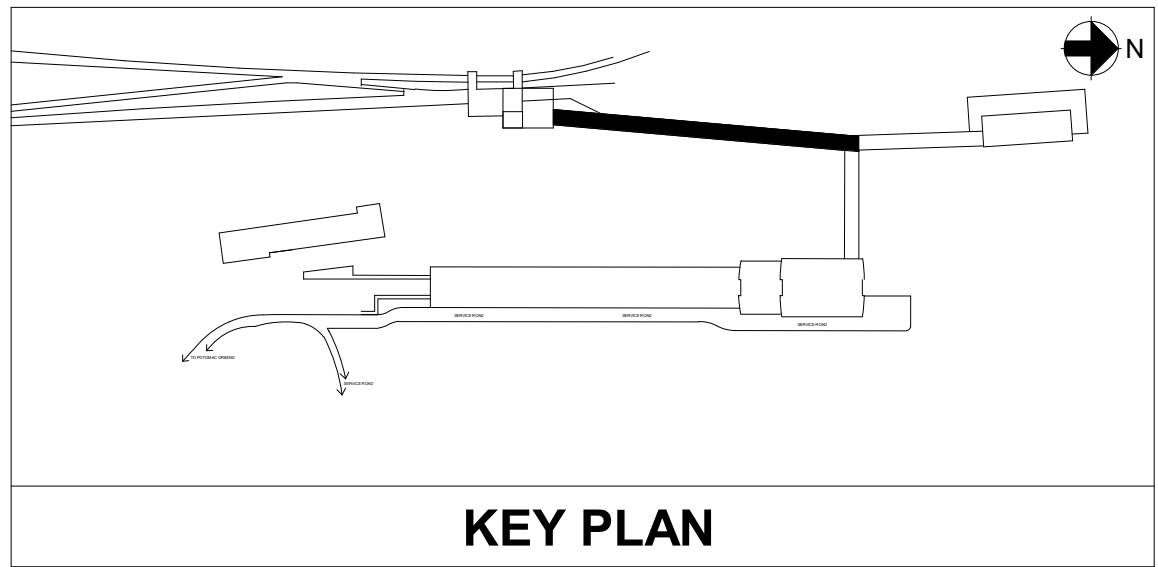
DIRECTOR _____ DATE _____
DEPARTMENT OF TRANSPORTATION & ENVIRONMENTAL SERVICES
SITE PLAN NO. _____

DIRECTOR _____ DATE _____

CHAIRMAN, PLANNING COMMISSION _____ DATE _____

DATE RECORDED _____

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



KEY PLAN



PROFESSIONAL CERTIFICATION:
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A FULLY LICENSED PROFESSIONAL ARCHITECT UNDER THE LAWS OF THE COMMONWEALTH OF VIRGINIA.

LICENSE NO. 0401015717
EXPIRATION DATE: 06/30/2021

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES
OFFICE OF THE CHIEF ENGINEER, INFRASTRUCTURE

SUBMITTED _____ DATE _____
APPROVED _____ DATE _____
DIRECTOR _____

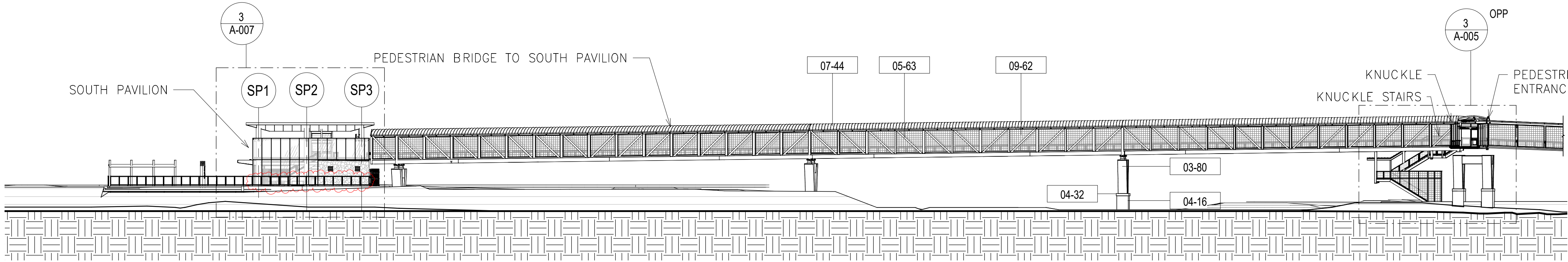


ARUP

WMATA POTOMAC YARD METRORAIL STATION
ARCHITECTURAL
PEDESTRIAN BRIDGE AND RAMP
KNUCKLE STAIR PLANS

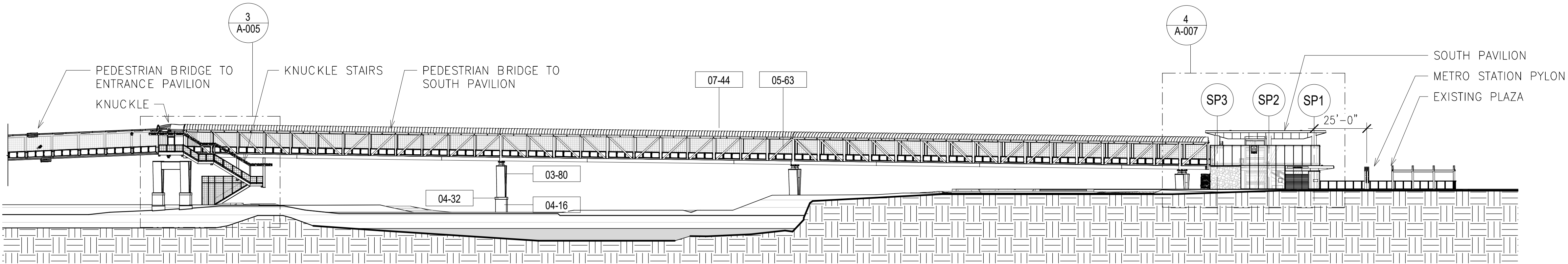
M NO.	CONTRACT NO.	SCALE:	DRAWING NO.	SHEET NO.
M1316	FQ16146		A-005	57 OF 60

10/7/2020 11:52:55 AM C:\Users\cme\gan\Documents\18-1260 - POTOMAC YARD METRO_MCP_2019 - P13 - Bridge & Ramp_chrislie.melgar.rvt



2 ENTRY CANOPY WEST ELEVATION OVERALL
A-006

SCALE: 1" = 30'-0"

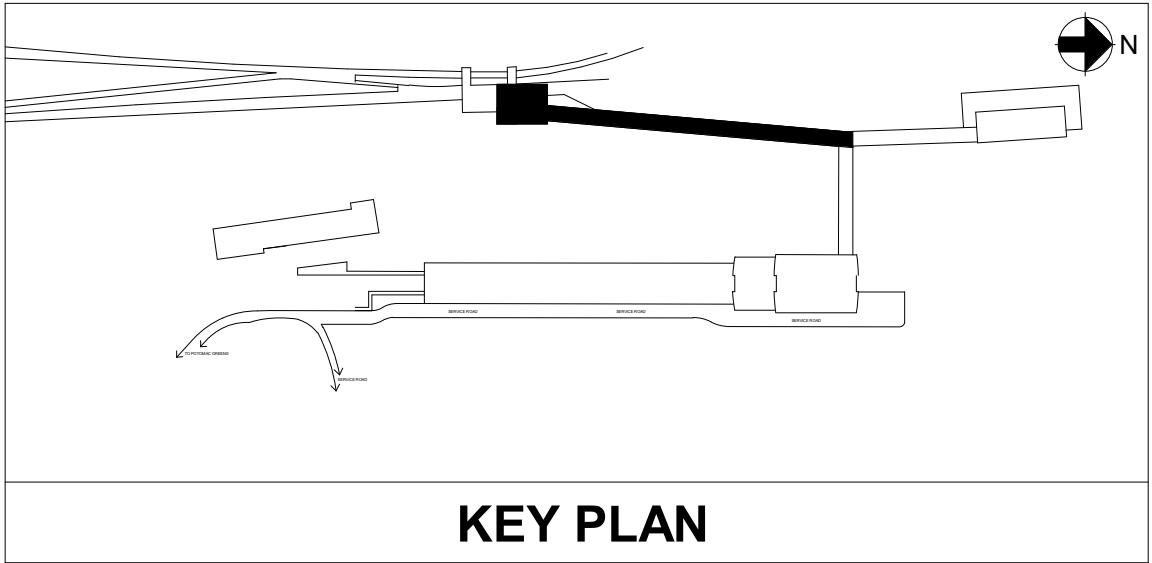


1 ENTRY CANOPY EAST ELEVATION OVERALL
A-006

SCALE: 1" = 30'-0"

SHEET KEYNOTES	
MARK	NOTE
03-80	CONCRETE PIER WITH FINISH TYPE CF2 (SMOOTH FORM FINISH), REFER TO STRUCT
04-16	STONE FINISH TYPE ST1, LOCAL ROUGH-CUT 4-5" STONE VENEER OVER MORTAR OVER ADJUSTABLE ANCHORS AT APPROX. 16' O.C. VERTICALLY AND HORIZONTALLY OVER 1/2" DRAINAGE BOARD OVER VAPOR BARRIER OVER CONC BACK UP WALL, REFER TO STRUCTURAL
04-32	STONE CAPPING FINISH TYPE ST2, PRECAST STONE.
05-63	STRUCTURAL STEEL MEMBER, REFER TO STRUCTURAL DWGS. PAINT FINISH PNT1
07-44	ROOF TYPE R1, ZINC/ ZINC COATED STANDING SEAM ROOF WITH FINISH TYPE MT2.
09-62	SS FRAMED WOVEN METAL MESH WALL PANEL, TYPE WM2 (GKD POTOMAC SS WIRE MESH), 2" x 2" WIRE SPACING AND SS FRAME

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. _____	



PROFESSIONAL CERTIFICATION:
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A FULLY LICENSED PROFESSIONAL ARCHITECT UNDER THE LAWS OF THE COMMONWEALTH OF VIRGINIA.

LICENSE NO. 0401015717
EXPIRATION DATE: 06/30/2021

REFERENCE DRAWINGS			REVISIONS		
DESIGNED	DATE	NUMBER	DESCRIPTION	DATE	NUM
R. SELLERS	10/06/20			10/07/2020	1
DRAWN	DATE				
G. ENGUILLADO	10/06/20				
CHECKED	DATE				
R. SELLERS	10/06/20				
APPROVED	DATE				
G. THOMAS	10/06/20				
	DATE				

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES
OFFICE OF THE CHIEF ENGINEER, INFRASTRUCTURE

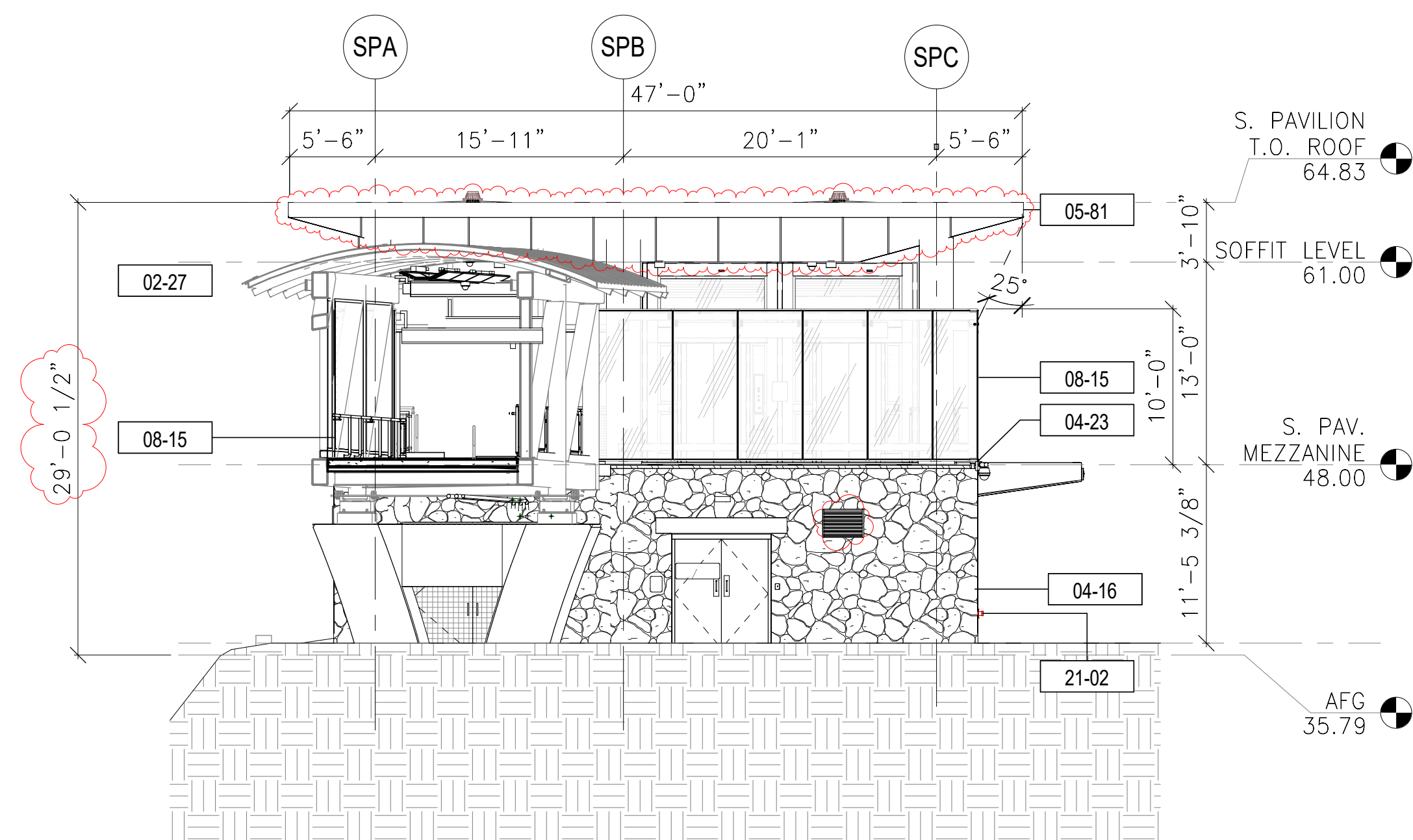
SUBMITTED _____ DATE _____
APPROVED _____ DATE _____
DIRECTOR _____



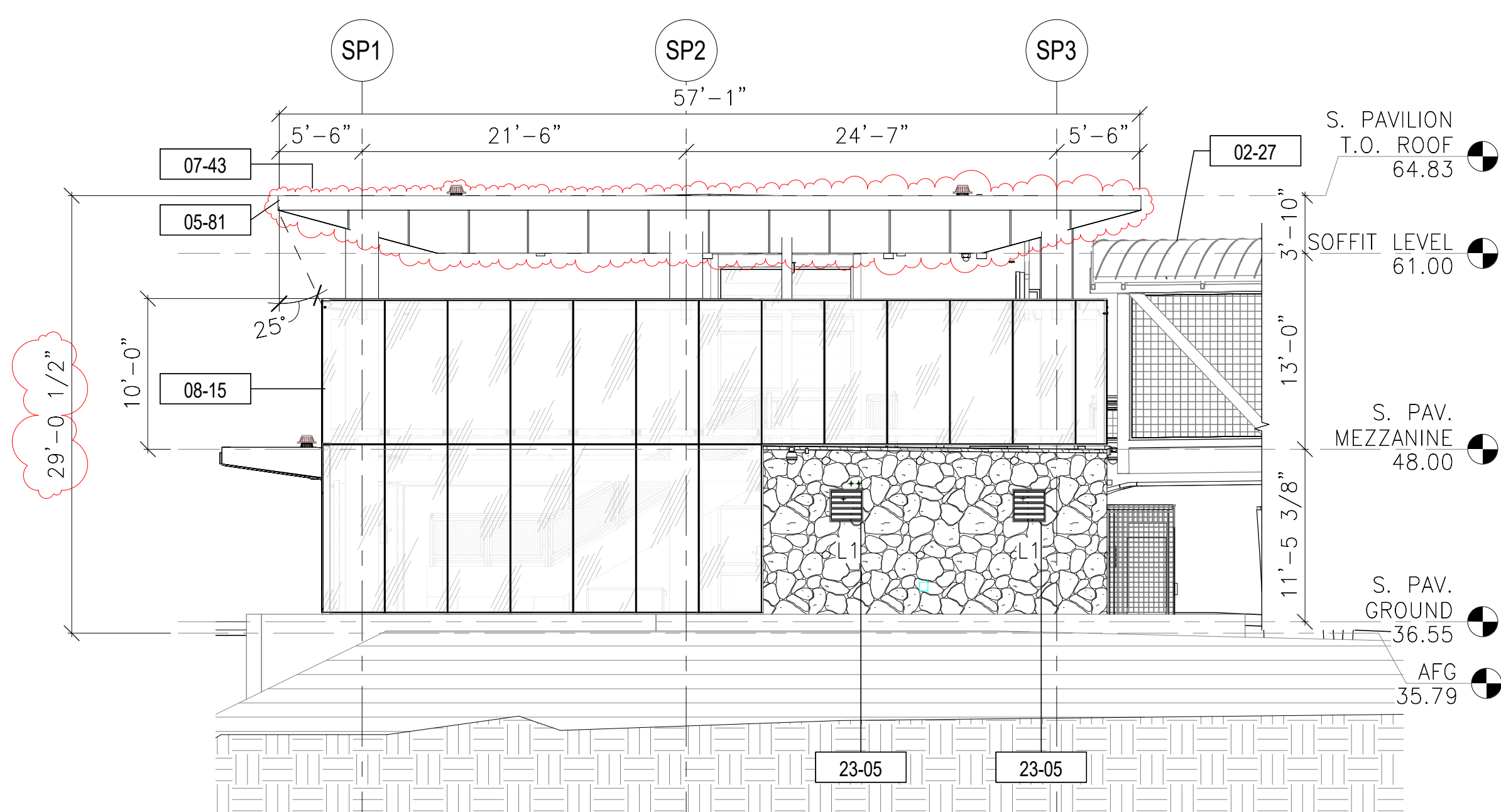
ARUP

WMATA POTOMAC YARD METRORAIL STATION
ARCHITECTURAL
PEDESTRIAN BRIDGE AND RAMP
S. PAVILION BRIDGE SPAN AND STAIR OVERALL ELEV.

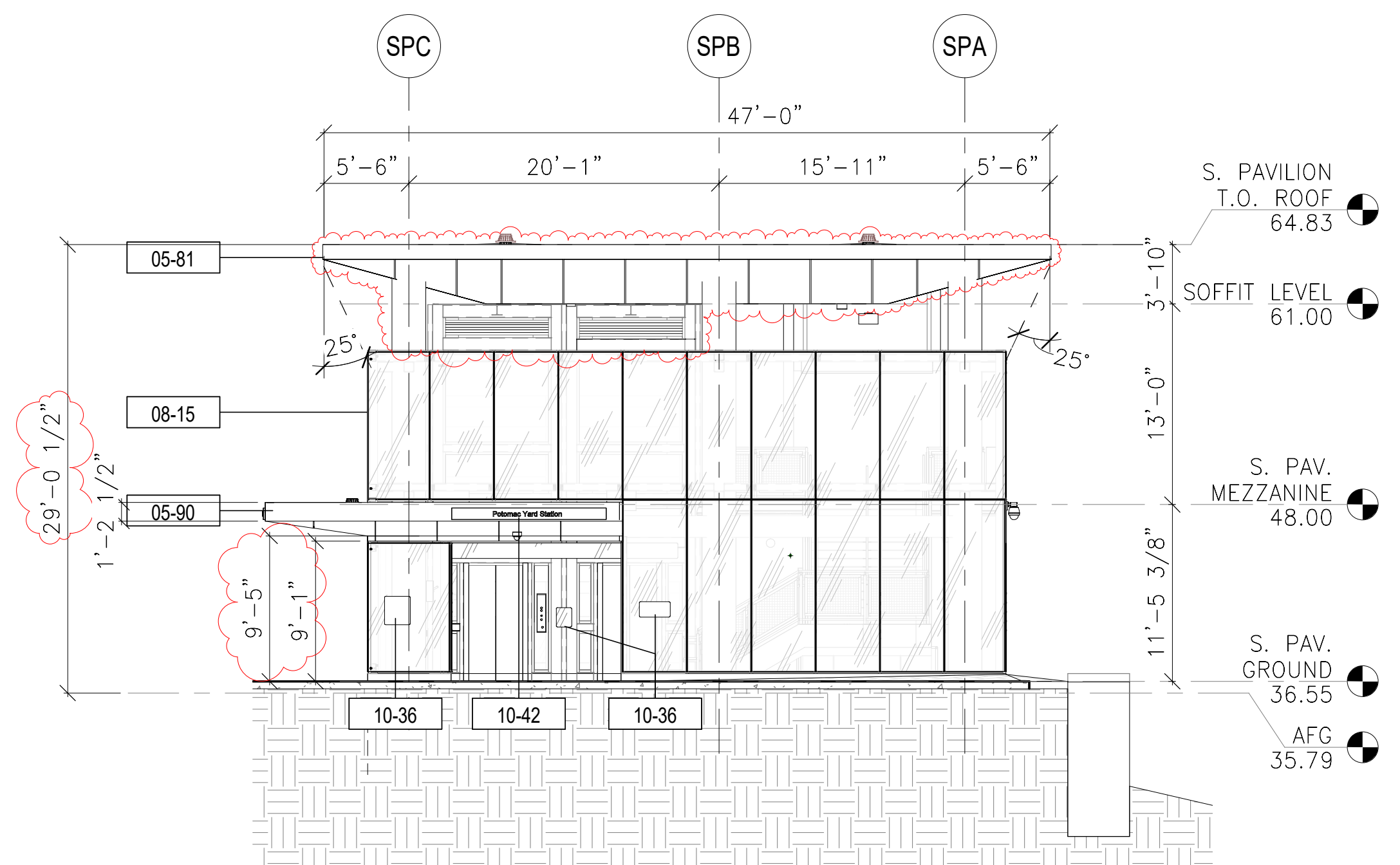
M NO.	CONTRACT NO.	SCALE:	DRAWING NO.	SHEET NO.
M1316	FQ16146		A-006	58 OF 60



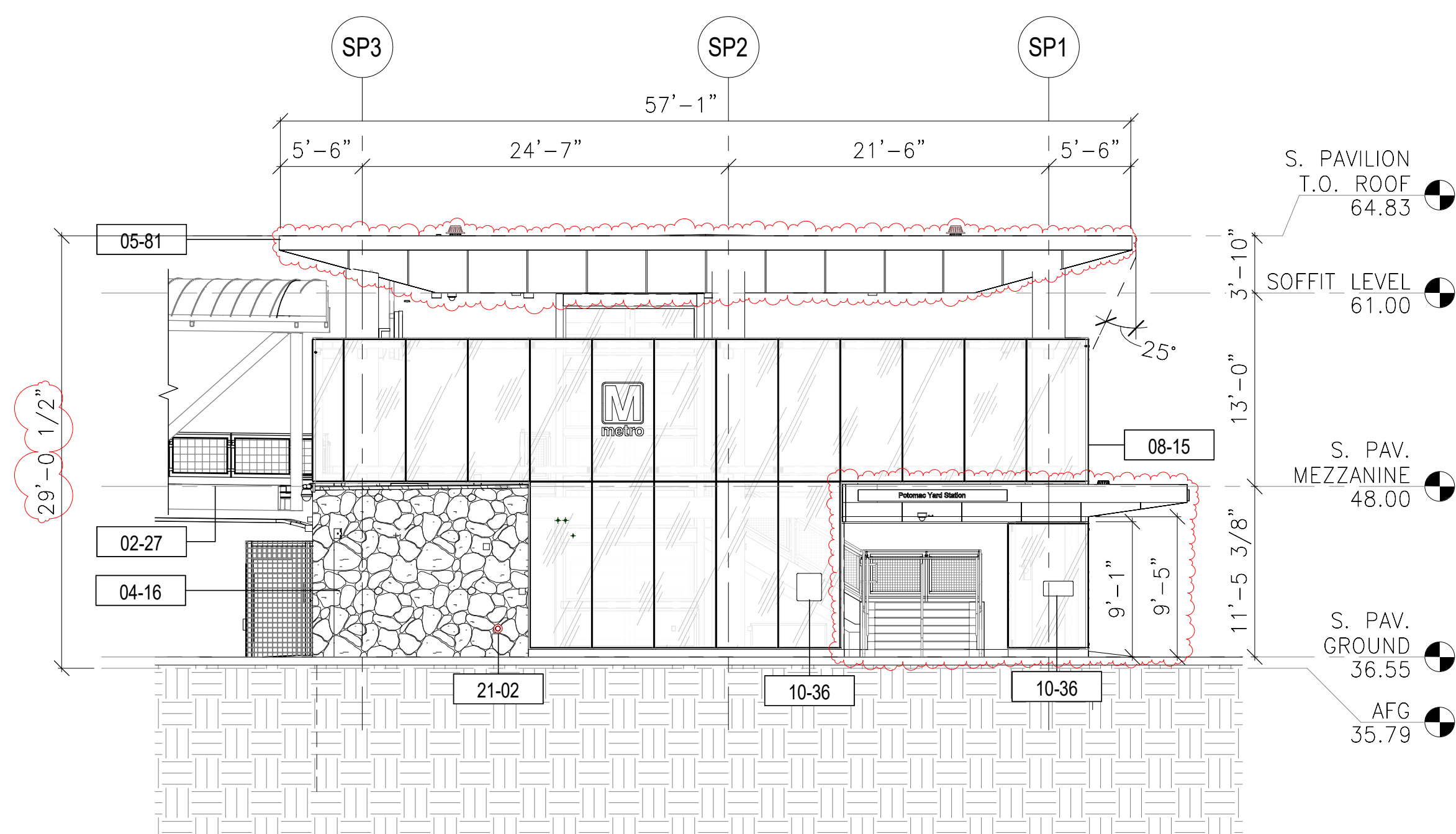
1 NORTH ELEVATION
A-007 SCALE: 1/8" = 1'-0"



3 EAST ELEVATION
A-007 SCALE: 1/8" = 1'-0"



2 SOUTH ELEVATION
A-007 SCALE: 1/8" = 1'-0"



4 WEST ELEVATION
A-007 SCALE: 1/8" = 1'-0"

SHEET KEYNOTES	
MARK	NOTE
02-27	REFER TO BRIDGE PACKAGE 13
04-16	STONE FINISH TYPE ST1, LOCAL ROUGH-CUT 4-5" STONE VENEER OVER MORTAR OVER ADJUSTABLE ANCHORS AT APPROX. 16' O.C. VERTICALLY AND HORIZONTALLY OVER 1/2" DRAINAGE BOARD OVER VAPOR BARRIER OVER CONC BACK UP WALL, REFER TO STRUCTURAL
04-23	PRECAST STONE FINISH TYPE ST2 CAPPING W/ 8% SLOPE AND DRIP. ANCHOR TO CONC WALL AND STONE PER MFR RECOMMENDATIONS
05-81	EXTERIOR GRADE ALUMINUM METAL FASCIA. FINISH PNT2
05-90	METAL PANEL CANOPY
07-43	PAVILION TYP EPDM ROOF CONSTRUCTION. REFER TO DETAIL 01/14-A-502.
08-15	NOMINAL 5 3/4" X 2 1/2" CURTAIN WALL SYSTEM WITH GLAZING TYPE GL1; CLEAR LAMINATED FULLY TEMPERED FLOAT GLASS
10-36	TYP. SURFACE MOUNTED ROOM ID SIGNAGE, REF TO SIGNAGE PACKAGE
10-42	SURFACE MOUNTED SIGNAGE, REF TO 01-A-530
21-02	FDC LOCATION, REF TO FIRE SUPPRESSION DRAWINGS
23-05	LOUVER, REFER TO MECHANICAL, STRUCTURAL, SPECIFICATION 08 91 00 LOUVERS, AND LOUVER SCHEDULE ON SHEET 14-A-602.

<h1 style="margin: 0;">APPROVED</h1>		
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.

PROFESSIONAL CERTIFICATION:
I HEREBY CERTIFY THAT THESE DOCUMENTS
WERE PREPARED OR APPROVED BY ME, AND
THAT I AM A FULLY LICENSED PROFESSIONAL
ARCHITECT UNDER THE LAWS OF THE
COMMONWEALTH OF VIRGINIA.

LICENSE NO. 0401015717
EXPIRATION DATE: 06/30/2021



DESIGNED A. PARAON 10/06/20			REFERENCE DRAWINGS		REVISIONS		
DATE 10/06/20					DATE	NUM	DESCRIPTION
DRAWN G. ENGUILLADO 10/06/20			NUMBER	DESCRIPTION	10/07/2020	1	FSP #2 REV 01
DATE 10/06/20							
CHECKED B. FLYNN 10/06/20							
DATE 10/06/20							
APPROVED G. THOMAS 10/06/20							
DATE							

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES

OFFICE OF THE CHIEF ENGINEER, INFRASTRUCTURE

SUBMITTED	DATE
APPROVED	DATE
DIRECTOR	DATE



ARUP

WMATA POTOMAC YARD METRORAIL STATION
ARCHITECTURAL
SOUTH PAVILION
ELEVATIONS

M NO.	CONTRACT NO.	SCALE:	DRAWING NO.	SHEET NO.
M1316	FQ16146		A-007	59 OF 60

10/7/2020 12:26:39 PM C:\Users\cmelgar\Documents\19-1260 POTOMAC YARD METRO MCP 2019 - South Pavilion christie.melgar.rvt

10/7/2020 12:26:40 PM C:\Users\cmelgar\Documents\18-1260_POTOMAC YARD METRO_MCP 2019 - South Pavilion_christie.melgar.rvt

MATERIALS & FINISHES/ BASIS OF DESIGN SCHEDULE					
MARK	DESCRIPTION	MANUFACTURER OR APPROVED EQUAL	ADDRESS	PHONE NUMBER	WEB SITE
EXTERIOR FINISHES					
STONE (ST)					
ST1	LOCAL ROUGH CUT FIELD STONE VENEER	CAPITAL BRICK	8135 OLD MARLBORO PIKE, UPPER MARLBORO, MD 20772	301.420.8484	DCBRICK.COM
ST2	PRECAST STONE – ROCKCAST SMOKEHOUSE	CAPITAL BRICK	8135 OLD MARLBORO PIKE, UPPER MARLBORO, MD 20772	301.420.8484	DCBRICK.COM
METAL (MT)					
MT1	STAINLESS STEEL WITH #4 BRUSHED FINISH				
MT7	COMPOSITE ALUMINUM SOFFIT/FASCIA SYSTEM WITH PRE-FINISHED, SMOOTH PANELS, CONCEALED FASTENERS AND BUTT JOINTS. SYSTEM SHALL HAVE UV RESISTANCE TREATMENT. FINISH TO MATCH PNT2. REFER TO SPECIFICATIONS.				
WOVEN METAL MESH (WM)					
WM2	POTOMAC SS WIRE MESH WITH 2"X 2" MAX. WIRE SPACING	GKD METAL FABRICS	825 CHESAPEAKE DRIVE, CAMBRIDGE, MD 21613	410.901.8429	GKDMETALFABRICS.COM
GLASS (GL)					
GL1	9/16" CLEAR LAMINATED FULLY TEMPERED FLOAT GLASS, 1/4" CLEAR OVER CLEAR PVB OVER 1/4" CLEAR; 85% VISUAL LIGHT TRANSMITTANCE, 7% R OUT, 0.95 WINTER U, 0.86 SUMMER U, 0.81 SC, 0.71 SHGC, 1.20 LSG	VIRACON	800 PARK DR., OWATONNA, MN 55060	800.533.2080	VIRACON.COM
EXPANSION JOINT (EJ)					
EJ1	SS HEAVY DUTY, FLOOR MOUNTED EJ W/ SLIDE PLATE – INPRO JOINTMASTER – 421-A01-275XM; EJ WIDTH 11", OPEN MOVEMENT + 8", CLOSE MOVEMENT – 4 1/2", VERTICAL MOVEMENT 2" MAX		BOX 720, MUSKEGO, WI 53150	262.679.9010	INPROCORP.COM
FLOOR FINISHES					
CONCRETE FINISH(CF)					
CF2	SMOOTH FORM FINISH				
CF4	STEEL TROWELED FINISH				
CF5	BROOM FINISH				
CF13	STEEL TROWELED W/EPOXY COAT FINISH				
CF14	STEEL TROWELED W/SEALER FINISH				
CONCRETE PAVER (CP)					
CP3	PREST PAVER – "NATURAL"	HANOVER ARCHITECTURAL PRODUCTS	5000 HANOVER RD., HANOVER, PA 17331	800.426.4242	HANOVERPAVERS.COM
GRANITE (GR)					
GR1	MT. AIRY WHITE – THERMAL FINISH	THE NORTH CAROLINA GRANITE GROUP	PO BOX 151 MOUNT AIRY, NC 27030	800.227.6242	NCGRANITE.COM
PORCELAIN TILE (PT)					
PT2	TRANAUT RED 12"x24"	STONE PEAK CERAMICS	314 WEST SUPERIOR SUITE 201 CHICAGO, IL 60654	312.506.2800	STONEPEAKCERAMICS.COM
PT3	TRANAUT GRAY 12"x24"	STONE PEAK CERAMICS	314 WEST SUPERIOR SUITE 201 CHICAGO, IL 60654	312.506.2800	STONEPEAKCERAMICS.COM
WALL FINISHES					
PAINT(PNT)					
PNT1	SHERWIN WILLIAMS (SW7643) PUSSY WILLOW	SHERWIN WILLIAMS	3911 CAROLINA AVE., RICHMOND, VA 23222	804.321.2360	SHERWIN-WILLIAMS.COM
PNT2	BENJAMIN MOORE (HC-171) WICKHAM GRAY	BENJAMIN MOORE	101 PARAGON DR., MONTVALE, NJ 07645	866.708.9181	BENJAMINMOORE.COM
PNT3	SHERWIN WILLIAMS (SW7551) GREEK VILLA	SHERWIN WILLIAMS	3911 CAROLINA AVE., RICHMOND, VA 23222	804.321.2360	SHERWIN-WILLIAMS.COM
PNT6	METRO BROWN (SAE AMS-STD-595 FEDERAL STANDARD COLOR #20040)				

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. _____



PROFESSIONAL CERTIFICATION:
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A FULLY LICENSED PROFESSIONAL ARCHITECT UNDER THE LAWS OF THE COMMONWEALTH OF VIRGINIA.

LICENSE NO. 0401015717
EXPIRATION DATE: 06/30/2021

DESIGNED A. PARAON 10/06/20			REFERENCE DRAWINGS		REVISIONS		WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY			WMATA POTOMAC YARD METRORAIL STATION									
DRAWN G. ENGUILLADO 10/06/20			NUMBER DESCRIPTION		DATE NUM DESCRIPTION		DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES			ARCHITECTURAL									
CHECKED B. FLYNN 10/06/20					10/07/2020 1 FSP #2 REV 01		OFFICE OF THE CHIEF ENGINEER, INFRASTRUCTURE			SOUTH PAVILION									
APPROVED G. THOMAS 10/06/20							SUBMITTED _____ DATE _____			FINISH AND MATERIALS SCHEDULE									
							APPROVED _____ DATE _____			M NO. M1316		CONTRACT NO. FQ16146		SCALE:		DRAWING NO. A-008		SHEET NO. 60 OF 60	
							DIRECTOR _____ DATE _____			