

ARLINGTON VIRGINIA

Plans For: ARLINGTON JUNCTION PARK

1051 SOUTH EADS STREET



PROJECT DESCRIPTION
ARLINGTON JUNCTION PARK IS A 0.9-ACRE NEIGHBORHOOD PARK, CREATING A CONTEMPLATIVE URBAN OASIS IN THE HIGHLY URBANIZED CRYSTAL CITY/PENTAGON CITY CORRIDOR IN ARLINGTON COUNTY. THE PARK FEATURES A MEANDERING PROMENADE WEAVING THROUGH A SERIES OF LOW, SWEEPING BERMS WITH NATIVE PLANTINGS, WHICH CREATES A VISUAL AND NOISE BUFFER BETWEEN THE PARK AND ADJACENT STREET TRAFFIC. POLLINATOR MEADOWS AND A RAIN GARDEN BRING VISUAL, TACTILE AND TEMPORAL EXPERIENCES OF NATURE INTO THE URBAN ENVIRONMENT.

Table of Contents:

Sheet No. Sheet Name

L001	COVER SHEET	L104	LAYOUT PLAN
C1.000	GENERAL NOTES	L105	LAYOUT PLAN ENLARGEMENTS
C1.010	LEGEND AND ABBREVIATIONS	L106	LAYOUT PLAN ENLARGEMENTS
C2.000	SITE DETAILS	L107	PAVING PLAN
C3.000	EXISTING CONDITIONS	L108	PAVING PLAN
C3.010	DEMOLITION PLAN	L109	LIGHTING PLAN NOTE ADD ALTERNATE 2
C4.000	OVERALL SITE AND GRADING PLAN	L110	LIGHTING PLAN
C4.010	SITE AND GRADING PLAN	L111	MAINTENANCE ACCESS DIAGRAM
C4.020	SITE AND GRADING PLAN	L112	ADA ACCESS DIAGRAM
C4.030	WET UTILITY PLAN	L113	CONSTRUCTION ACCESS DIAGRAM
C4.040	WET UTILITY PROFILES	L301	SECTIONS AND ELEVATIONS
C4.050	DRY UTILITY PLAN	L302	SECTIONS AND ELEVATIONS
C4.060	DRY UTILITY PROFILE	L311	GENERAL NOTES & PRODUCT SCHEDULE
C5.000	STORMWATER MANAGEMENT NOTES	L311A	GENERAL NOTES & PRODUCT SCHEDULE
C5.010	STORMWATER MANAGEMENT CALCULATIONS	L312	CONSTRUCTION DETAILS - PAVING
C5.020	STORMWATER MANAGEMENT CALCULATIONS		NOTE ADD ALTERNATE 3
C5.030	PRE-DEVELOPMENT SWM CALCULATIONS	L313	CONSTRUCTION DETAILS - SITE FURNISHING
C5.040	POST-DEVELOPMENT SWM CALCULATIONS	L314	CONSTRUCTION DETAILS - CUSTOM BENCH
C8.000	EROSION & SEDIMENT CONTROL PHASE 1		NOTE ADD ALTERNATES 2
C8.010	EROSION & SEDIMENT CONTROL PHASE 2	P315	CONSTRUCTION DETAILS - PLUMBING
C8.020	EROSION & SEDIMENT CONTROL NOTES	L316	CONSTRUCTION DETAILS - METAL BRIDGE
C8.030	EROSION & SEDIMENT CONTROL DETAILS	L317	CONSTRUCTION DETAILS - BOULDER WALLS
C8.040	EROSION & SEDIMENT CONTROL SWPPP	L318	CONSTRUCTION DETAILS - LIGHTING
C8.050	BMP LAND COVER MAP	L319	CONSTRUCTION DETAILS - SIGNAGE
C8.060	BMP NOTES	L320	CONSTRUCTION DETAILS - SITE FURNISHING
C8.070	BMP DETAILS	L401	PLANTING PLAN - NORTH PARCEL OVERSTORY
C8.080	BMP DETAILS	L402	PLANTING PLAN - NORTH PARCEL UNDERSTORY
C8.090	BMP DETAILS	L403	PLANTING PLAN - NORTH PARCEL ENLARGEMENTS
C8.100	BMP DETAILS	L404	PLANTING PLAN - SOUTH PARCEL OVERSTORY
C8.110	STORM PROFILES	L405	PLANTING PLAN - SOUTH PARCEL UNDERSTORY
C9.000	MAINTENANCE OF TRAFFIC PLAN FOR CONSTRUCTION	L406	PLANTING PLAN - SOUTH PARCEL ENLARGEMENTS
C9.010	MAINTENANCE OF TRAFFIC PLAN DETAILS	L411	PLANTING DETAILS
C9.020	GEOTECHNICAL REQUIREMENTS	L412	PLANTING DETAILS
C9.030	GEOTECHNICAL REQUIREMENTS	L413	SOIL PROFILE REBUILDING DETAILS
		L501	IRRIGATION CONCEPT PLAN
		L502	IRRIGATION CONCEPT PLAN
TP101	TREE PROTECTION PLAN	E.001	ELECTRICAL SYMBOLS AND SCHEDULES
TP102	TREE INVENTORY TABLES	E.002	RISER DIAGRAM
TP103	TREE PROTECTION DETAILS	E.003	DETAILS
TP104	COTTONWOOD TREE PROTECTION STUDIES	E.004	DETAILS
		ES.001	ELECTRICAL SITE PLAN
L100	OVERALL REFERENCE PLANS	S-100P	GENERAL NOTES
L100A	PROJECT RENDERINGS	S-101P	BOARDWALK FRAMING AND DETAILS
L101	MATERIALS PLAN NOTE ADD ALTERNATES 1&2	S-102P	ANCHORAGE DETAILS
L102	MATERIALS PLAN		
L103	LAYOUT PLAN		

DEPARTMENT OF PARKS AND RECREATION

Park Development Division

2100 Clarendon Boulevard, Suite 414,
Arlington, VA 22201
Phone: 703.228.3332 Fax: 703.228.3328
www.arlingtonva.us

GENERAL NOTES

- THE CONTRACTOR SHALL FULLY ACQUAINT HIMSELF WITH THE CONDITIONS OF THE SITE. THE CONTRACTOR SHALL THOROUGHLY EXAMINE AND BE FAMILIAR WITH THE DRAWINGS AND SPECIFICATIONS. SHOULD THE CONTRACTOR FIND ANY DISCREPANCIES, OMISSIONS, AMBIGUITIES, OR CONFLICTS IN OR AMONG THE CONTRACT DOCUMENTS OR BE IN DOUBT AS TO THEIR MEANING, HE SHALL BRING THESE ITEMS TO THE ATTENTION OF THE PROJECT OFFICER FOR DIRECTION BEFORE PROCEEDING WITH WORK.
- THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND BE RESPONSIBLE FOR ADHERENCE TO ALL ORDINANCES, REGULATIONS, LAWS AND CODES HAVING JURISDICTION OVER THE PROPERTY.
- THE CONTRACTOR SHALL SUBMIT A REQUIRED "RESPONSIBLE LAND DISTURBER" CERTIFICATION LETTER AS PART OF OBTAINING A BUILDING (OR DISTURBANCE) PERMIT.
- THE CONTRACTOR IS RESPONSIBLE FOR LICENSING AS REQUIRED BY APPLICABLE REGULATORY AGENCIES.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL SALES, USE AND CAPITAL GAINS TAXES.
- UTILITY LOCATIONS SHOWN ON THIS PLAN ARE APPROXIMATE LOCATIONS DETERMINED FROM VISIBLE EVIDENCE AND AVAILABLE RECORDS. ADDITIONAL UNDERGROUND UTILITY LINES MAY BE PRESENT THAT ARE NOT SHOWN. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE AND PRESERVE EXISTING UTILITIES.
- CONTRACTOR SHALL NOT SUBSTITUTE PRODUCTS OR MATERIALS WITHOUT PRIOR APPROVAL BY THE PROJECT OFFICER.
- THE CONTRACTOR SHALL IDENTIFY ALL STAGING AREAS AND LIMITS OF WORK FOR APPROVAL BY THE PROJECT OFFICER PRIOR TO THE START OF WORK. AREAS OUTSIDE LIMITS OF WORK SHALL NOT BE USED FOR STORAGE OR MOVEMENT OF MATERIALS, MACHINERY OR DEBRIS.
- THE CONTRACTOR SHALL OBTAIN THE PROJECT OFFICER'S APPROVAL FOR TIMES OF DAY DURING WHICH CONSTRUCTION OPERATIONS MAY OCCUR. ALL CONSTRUCTION OPERATIONS SHALL OCCUR WITHIN TIMES SPECIFIED BY LOCAL ORDINANCES.
- CONSTRUCTION ACTIVITIES FOR THIS PROJECT OCCUR ENTIRELY ON PARK PROPERTY. THEREFORE, A MAINTENANCE OF TRAFFIC (MOT) PLAN IS NOT EXPECTED TO BE REQUIRED. HOWEVER, IF THE ARLINGTON DEPARTMENT OF ENVIRONMENTAL SERVICES (DES) DETERMINES THAT AN MOT PLAN IS REQUIRED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE PLAN TO DES FOR THEIR REVIEW AND APPROVAL.
- THE CONTRACTOR SHALL BE ON SITE AT TIME OF ALL MATERIALS DELIVERIES.
- THE CONTRACTOR SHALL KEEP THE SITE CLEAN AND FREE OF TRASH AT ALL TIMES DURING CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE A TRASH RECEPTACLE TO BE USED ON SITE DURING CONSTRUCTION AND SHALL REMOVE TRASH FROM THE SITE ON A DAILY BASIS.
- THE CONTRACTOR SHALL KEEP VEHICULAR ACCESS AREAS CLEAN DURING CONSTRUCTION. VEHICULAR AND OTHER PAVED AREAS SHALL BE WASHED FREE OF MUD ON A WEEKLY BASIS DURING CONSTRUCTION.
- THE CONTRACTOR SHALL SECURE THE CONSTRUCTION AREA WITH FENCING AT END OF WORKDAY AND WHEN CONTRACTOR IS NOT ON SITE.
- THE CONTRACTOR SHALL DISTRIBUTE ALL PROJECT MATERIALS AND EQUIPMENT AND DISTRIBUTE ANY STOCKPILES IN SUCH A MANNER AS TO PROTECT EXISTING CONDITIONS, SUCH AS UTILITIES, PAVING, VEGETATION, ETC. THE CONTRACTOR SHALL NOT STOCKPILE SOIL OR CONSTRUCTION MATERIALS, OR DRIVE VEHICLES WITHIN THE CRITICAL ROOT ZONE OF EXISTING TREES TO REMAIN. THE CONTRACTOR SHALL OBTAIN THE PROJECT OFFICER'S APPROVAL FOR ALL CONSTRUCTION ACCESS AREAS, STAGING AND STOCKPILE AREAS PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL NOT BLOCK STREETS, PARKING AREAS, HOUSE OR DRIVEWAY ENTRANCES DURING CONSTRUCTION WITHOUT THE PROJECT OFFICER'S PERMISSION AND APPROVAL OF ANY RIGHT-OF-WAY PERMITS IF REQUIRED.
- THE CONTRACTOR SHALL STAKE THE ALIGNMENT OF ALL PAVEMENT WALLS, CURBING, SAFETY SURFACING AND SITE FEATURES IN THE FIELD FOR APPROVAL BY THE PROJECT OFFICER PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL PROMPTLY REPAIR ALL DAMAGE TO EXISTING PAVEMENT, DRIVEWAYS, AND ADJACENT FACILITIES CAUSED BY CONSTRUCTION OPERATIONS. COST OF REPAIRS SHALL BE AT CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL REMOVE ALL EXCESS SOIL, TEMPORARY FENCING, EROSION CONTROL MEASURES, STABILIZATION MATERIALS, AND OTHER DEBRIS AND SHALL DISPOSE LEGALLY UPON COMPLETION OF THE PROJECT. CONTRACTOR SHALL THOROUGHLY WASH AND CLEAN ALL PAVED AREAS, WALLS, SITE FURNISHINGS AND FEATURES, ETC. UPON COMPLETION OF THE PROJECT.
- REFER TO INDIVIDUAL DRAWINGS FOR ADDITIONAL NOTES.

LANDSCAPE ARCHITECT/CIVIL ENGINEER

LSG LANDSCAPE ARCHITECTURE

8260 GREENSBORO DRIVE
SUITE 325
TYSONS, VIRGINIA 22102
703-821-2045

CLARK AZAR & ASSOCIATES

20440 CENTURY BOULEVARD
SUITE 220
GERMANTOWN, MD 20874
(240) 912-3491

ARLINGTON COUNTY
DEPARTMENT OF ENVIRONMENTAL SERVICES
WATER-SEWER CONSTRUCTION REQUIREMENTS (REVISED MARCH 2005)

VALVE BOXES AND SANITARY SEWER MANHOLE FRAME AND COVERS AS PER COUNTY STANDARDS. REMOVE ALL ABANDONED SANITARY MANHOLES AND VALVE BOXES OVER THE ABANDONED WATER MAINS, AND COMPLETE ALL NECESSARY WATER MAIN "CUT AND CAPS".

- ALL MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH ARLINGTON COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES CONSTRUCTION STANDARDS & SPECIFICATIONS (LATEST EDITION) AND SHALL BE APPROVED BY THE DEPARTMENT OF ENVIRONMENTAL SERVICES. UPON PHYSICAL INSPECTION, THE COUNTY RESERVES THE RIGHT TO REJECT THE USE OF ANY MATERIAL FOUND TO BE DEFECTIVE OR NOT CONFORMING TO THE STANDARDS AND SPECIFICATIONS.

- UPON COMPLETION, APPROVAL, AND ACCEPTANCE OF WATER AND/OR SEWER MAINS AND APPURTENANCES, THE DEVELOPER'S REGISTERED ENGINEER SHALL SUBMIT TO ARLINGTON COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES, A SET OF MYLAR TRACINGS INDICATING THE AS-BUILT CONDITIONS AND A SIGNED STATEMENT CONFIRMING THAT THE WORK, AS INDICATED, IS ACCEPTABLE TO THE ENGINEER. SUCH SUBMITTALS SHALL BE MADE BEFORE REQUESTING REDUCTION AND/OR RELEASE OF THE SURETY BOND.

- BEFORE START OF CONSTRUCTION, THE CONTRACTOR SHALL FURNISH THE FOLLOWING INFORMATION AND/OR EVIDENCE OF COMPLIANCE WITH ALL APPLICABLE REGULATIONS AND LAWS, TO THE ARLINGTON COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES:
 - THE NAME AND ADDRESS OF THE CONTRACTOR HIRED TO WORK ON THE PROJECT. THE CONTRACTOR SHALL BE REGISTERED IN THE COMMONWEALTH OF VIRGINIA. SATISFACTORY EVIDENCE SHALL BE FURNISHED OF THE CONTRACTOR'S PRIOR EXPERIENCE AS PRIME CONTRACTOR IN THE CONSTRUCTION OF WATER MAINS AND/OR SANITARY SEWER INSTALLATIONS. FURTHER, THE CONTRACTOR SHALL FURNISH A LETTER WITH A LIST OF MATERIALS AND SUPPLIERS FOR PROPOSED PROJECT.
 - A RIGHT OF WAY PERMIT IS REQUIRED TO WORK IN ARLINGTON COUNTY STREETS. IN INSTANCES OF EXCAVATIONS IN STATE RIGHT OF WAY, THE DATE AND NUMBER OF ALL PERMITS REQUIRED BY THE VIRGINIA DEPARTMENT OF TRANSPORTATION (VDOT) SHALL BE FURNISHED.
 - IF ANY OTHER EASEMENT IS NEEDED, TWO (2) COPIES OF THE DESCRIPTION OF SUCH EASEMENT, AS ACTUALLY RECORDED, SHALL BE FURNISHED, INCLUDING THE PLACE, DATE AND REFERENCE OF SUCH RECORDATION.
 - WRITTEN NOTICE OF TENTATIVE STARTING DATE OF CONSTRUCTION, WHICH SHALL BE A MINIMUM OF ONE (1) WEEK FOLLOWING THE DATE OF NOTICE. IN ADDITION, THE CONTRACTOR SHALL FURNISH THE NAMES AND TELEPHONE NUMBERS OF TWO (2) RESPONSIBLE PERSONS WHO CAN BE CONTACTED IN CASE OF EMERGENCY.

ARLINGTON COUNTY
DEPARTMENT OF ENVIRONMENTAL SERVICES

ARLINGTON COUNTY
DEPARTMENT OF ENVIRONMENTAL SERVICES

NOTES

- ALL CONSTRUCTION SHALL CONFORM TO THE CURRENT ARLINGTON COUNTY DES STANDARDS AND SPECIFICATIONS.
- THE CONTRACTOR SHALL REMOVE AND REPLACE, TO THE CURRENT ARLINGTON COUNTY DES STANDARDS AND SPECIFICATIONS, ANY EXISTING ENTRANCES, CURB AND GUTTER OR SIDEWALK ALONG THE FRONTAGE OF THIS SITE IN POOR CONDITION, OR DAMAGED DURING CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND CLOSING, TO ARLINGTON COUNTY STANDARDS, ANY EXISTING ENTRANCES NOT BEING USED IN CONJUNCTION WITH THIS DEVELOPMENT.
- THE CONTRACTOR SHALL OBTAIN ARLINGTON COUNTY PERMITS FOR ALL OF THIS SITE.
- THERE MAY BE UNDERGROUND CONDUIT, CABLES AND TRAFFIC DETECTION DEVICES IN THIS AREA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ANY TRAFFIC CONTROLS THAT ARE DISTURBED DURING CONSTRUCTION. NOTIFY THE TRANSPORTATION ENGINEERING & OPERATIONS BUREAU AT (703) 228-3575, 24 HOURS PRIOR TO STARTING WORK.
- THE CONTRACTOR SHALL NOT DISTURB OR REMOVE ANY TRAFFIC CONTROL SIGNS, PARKING METERS OR ANY OTHER TRAFFIC CONTROL DEVICE WITHOUT PRIOR PERMISSION FROM THE TRANSPORTATION ENGINEERING & OPERATIONS BUREAU. CONTACT TRANSPORTATION ENGINEERING AT (703) 228-3575.
- THE CONTRACTOR SHALL OBTAIN A PERMIT FROM THE TRANSPORTATION ENGINEERING & OPERATIONS BUREAU, PRIOR TO PLACING ANY OBSTRUCTION WITHIN THE PUBLIC RIGHT OF WAY, OR ON SIDEWALKS ALONG THE FRONTAGE OF THIS DEVELOPMENT.
- THE CONTRACTOR SHALL OBTAIN PERMITS FROM THE INSPECTION SERVICES DIVISION PRIOR TO ANY DEMOLITION, EXCAVATION OR CONSTRUCTION OF ON-SITE FACILITIES. FOR INFORMATION AND PERMIT REQUIREMENTS TELEPHONE (703) 228-3800.

ACTUAL CONSTRUCTION SHALL NOT BEGIN UNTIL THE ABOVE ITEMS HAVE BEEN COMPLETED AND THE ARLINGTON COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES APPROVED THE STARTING DATE AND ARRANGEMENTS HAVE BEEN MADE FOR THE REQUIRED INSPECTION SERVICE.

- ALL CONSTRUCTION SHALL BE ACCOMPLISHED FROM APPROVED PLANS, SPECIFICATIONS AND CUT SHEETS SUBMITTED BY A REGISTERED ENGINEER AND APPROVED BY THE COUNTY. TO AVOID CONSTRUCTION DELAYS ALL NECESSARY TEST HOLE INFORMATION SHALL BE OBTAINED PRIOR TO MOBILIZATION AND CONSTRUCTION PLANS SHALL BE REVISED ACCORDINGLY.

- NO EXISTING WATER MAINS, FIRE HYDRANTS, OR SANITARY SEWERS MAY BE TAKEN OUT OF SERVICE OR MADE INACCESSIBLE BY THE CONTRACTOR WITHOUT THE PRIOR APPROVAL FROM THE DEPARTMENT OF ENVIRONMENTAL SERVICES.

- UPON COMPLETION OF CONSTRUCTION, ALL FINAL TESTS, AS REQUIRED, SHALL BE PERFORMED IN THE PRESENCE OF THE COUNTY'S REPRESENTATIVE. WATER AND SEWER SERVICE CONNECTIONS SHALL NOT BE MADE UNTIL THE WATER AND/OR SEWER MAINS AND APPURTENANCES HAVE BEEN APPROVED AND ACCEPTED BY ARLINGTON COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES.

- EXISTING WATER SERVICES MAY BE ALLOWED FOR CONSTRUCTION PURPOSES ONLY FOR WHICH CONTRACTOR SHALL REQUEST TO THE ARLINGTON COUNTY'S UTILITY SERVICES BY CALLING 703-228-3636. PRIOR TO THE FINAL ACCEPTANCE OF THE PROJECT, THE DEVELOPER SHALL REQUEST TO THE UTILITY SERVICES IN WRITING FOR THE DISCONTINUATION OF ALL EXISTING WATER SERVICES. ALSO, THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL EXISTING METER BOXES RELATED TO THE SERVICES BEING DISCONTINUED.

- THE CONTRACTOR SHALL MAINTAIN BACKFILL FOR UTILITY EXCAVATIONS UNTIL ARLINGTON COUNTY HAS FINALLY ACCEPTED THE PROPOSED WATER AND/OR SEWER MAIN. ALSO, ALL SURFACES OVER THE UTILITY EXCAVATIONS SHALL EITHER BE RESTORED TO THE ORIGINAL CONDITION OR FINISHED AS PER THE PROPOSED DESIGN BEFORE THE ACCEPTANCE OF THE PROJECT. PAVEMENT PATCHING FOR UTILITY CUTS IN THE PUBLIC STREETS SHALL BE PERFORMED IN ACCORDANCE WITH ARLINGTON COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES CONSTRUCTION STANDARDS AND SPECIFICATIONS OR AS PER VDOT ROAD AND BRIDGE STANDARDS AND SPECIFICATIONS DEPENDING UPON THE STREET JURISDICTION. PRIOR TO FINAL PAVING, THE CONTRACTOR SHALL ADJUST ALL EXISTING

UTILITY MARKING REQUIREMENTS:

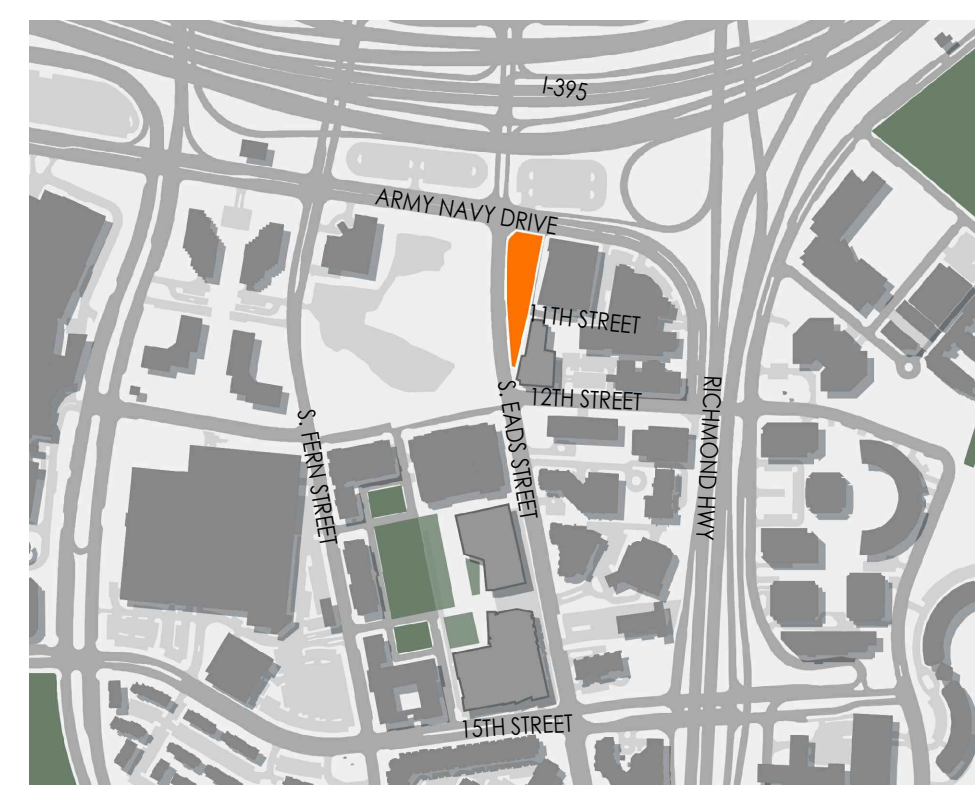
- THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 811, 72 HOURS PRIOR TO THE START OF ANY EXCAVATION OR CONSTRUCTION, FOR THE MARKING OF UNDERGROUND UTILITIES IN THE RIGHT-OF-WAY.
- UTILITY LOCATIONS SHOWN ON THIS PLAN ARE APPROXIMATE LOCATIONS DETERMINED FROM VISIBLE EVIDENCE AND AVAILABLE RECORDS. ADDITIONAL UNDERGROUND UTILITY LINES MAY BE PRESENT THAT ARE NOT SHOWN. THE CONTRACTOR SHALL LOCATE AND PRESERVE ALL EXISTING UTILITIES.

HORIZONTAL DATUM:

THE SITE SHOWN HEREON IS REFERENCED TO THE VIRGINIA COORDINATE SYSTEM OF 1983 AS COMPUTED FROM A FIELD RUN BOUNDARY AND HORIZONTAL CONTROL SURVEY.

VERTICAL DATUM:

THE SITE SHOWN HEREON IS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 AS COMPUTED FROM A FIELD RUN VERTICAL CONTROL SURVEY.



VICINITY MAP - 1"=500'

ARLINGTON COUNTY, VIRGINIA DEPARTMENT OF ENVIRONMENTAL SERVICES	
ARLINGTON JUNCTION PARK-CIVIL ENGINEERING PLAN	
1051 SOUTH EADS STREET ARLINGTON COUNTY, VA	
SCALE: AS SHOWN	SHEET L001



DEPARTMENT OF PARKS AND RECREATION

Parks Development Division
2100 Clarendon Boulevard, Suite 414
Arlington, VA 22201
Phone: 703.228.3332
Fax: 703.228.3328

ITB #23-DPR-ITBPW-450

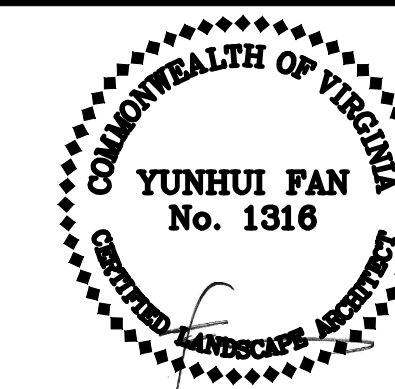
#SWM 22-0224

ARLINGTON
JUNCTION PARK
FINAL PLAN
08/17/2023
1051 SOUTH EADS STREET

Approvals Date

Park Development Division Chief

Design Manager



Sheet L001

ARLINGTON COUNTY GENERAL NOTES:

GENERAL CONSTRUCTION NOTES:

- 1.) ALL ELEVATIONS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
 - 2.) ALL CONSTRUCTION WORK FOR THIS PROJECT SHALL CONFORM TO THE ARLINGTON COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES, CONSTRUCTION STANDARDS AND SPECIFICATIONS, AND WHERE APPLICABLE THE VIRGINIA DEPARTMENT OF TRANSPORTATION (VDOT) ROAD AND BRIDGE SPECIFICATIONS, AND ROAD AND BRIDGE STANDARDS. THE LATEST EDITIONS OF EACH RELEVANT MANUAL SHALL BE USED.
 - 3.) ALL CONSTRUCTION AND WORK ACTIVITIES SHALL COMPLY WITH THE VIRGINIA WORK AREA PROTECTION MANUAL AND ALL OTHER RELEVANT WORK SAFETY REQUIREMENTS, LATEST EDITIONS.
 - 4.) THE CONTRACTOR SHALL CONTACT "MISS UTILITY" AT 811 FOR MARKING THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES (i.e. WATER, SEWER, GAS, TELEPHONE, ELECTRIC AND CABLE TV) AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION OR CONSTRUCTION. THE CONTRACTOR IS REQUIRED TO IDENTIFY AND PROTECT ALL OTHER UTILITY LINES FOUND IN THE WORK SITE AREA BELONGING TO OTHER OWNERS THAT ARE NOT MEMBERS OF "MISS UTILITY". PRIVATE WATER AND/OR SEWER LATERALS WILL NOT BE MARKED BY MISS UTILITY OR THE COUNT. THE CONTRACTOR WILL BE EXPECTED TO LOCATE AND PROTECT THESE SERVICES DURING CONSTRUCTION.
 - 5.) THE CONTRACTOR SHALL BE RESPONSIBLE FOR LAYING OUT THE WORK AND SHALL RETAIN A PROFESSIONAL LAND SURVEYOR LICENSED IN THE COMMONWEALTH OF VIRGINIA TO PROVIDE ALL NECESSARY CONSTRUCTION LAYOUTS AND ESTABLISH ALL CONTROL LINES, GRADES, AND ELEVATION DURING CONSTRUCTION. THE CONTRACTOR SHALL SUBMIT A COPY OF ALL CUT SHEETS FOR REVIEW, PER THE SPECIFICATIONS. THE COST OF ALL NECESSARY SURVEYING SERVICES SHALL BE CONSIDERED INCIDENTAL TO THE WORK AND, UNLESS OTHERWISE SPECIFIED, THE COST SHALL BE INCORPORATED INTO THE COST FOR RELEVANT ITEMS.
 - 6.) THE LOCATION OF ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE FROM THE BEST AVAILABLE RECORDS AND SHALL BE CONSIDERED TO BE APPROXIMATE. WHEN CONSTRUCTION ACTIVITY REACHES IN PROXIMITY TO EXISTING UTILITIES, THE TRENCH(ES) SHALL BE OPENED A SUFFICIENT DISTANCE AHEAD OF THE WORK OR TEST PITS SHALL BE MADE TO VERIFY THE EXACT LOCATION AND INVERTS OF THE UTILITY TO ALLOW FOR POSSIBLE CHANGES IN THE LINE OR GRADE. THESE TEST PITS SHALL BE PERFORMED AT NO ADDITIONAL COST TO THE COUNTY AND ARE INCIDENTAL TO THE PROPOSED WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE EXISTING UTILITIES AND THE RELATED STRUCTURES. ALL EXISTING UTILITY SYSTEMS SHALL BE PROTECTED TO PREVENT DAMAGE DURING THE CONTRACTOR'S OPERATIONS. ANY SYSTEM DAMAGED SHALL BE PROMPTLY REPAIRED AT NO COST TO THE OWNER.
- THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES BETWEEN ACTUAL FIELD CONDITIONS AND THE APPROVED PLAN
- 7.) EXISTING MANHOLE FRAMES, COVERS, AND VALVE BOXES, AND ANY OTHER APPURTENANCES SHALL BE ADJUSTED TO THE FINAL GRADE OR REPLACED, AS NECESSARY, UNLESS OTHERWISE SPECIFIED, THE COST FOR THIS SHALL BE CONSIDERED INCIDENTAL TO THE WORK, AND SHALL BE INCORPORATED INTO THE COSTS FOR RELEVANT ITEMS.
 - 8.) THE CONTRACTOR SHALL PROVIDE ADA COMPLIANT ACCESS THROUGH OR AROUND THE SITE AT ALL TIMES AND SHALL ENSURE THE SAFETY OF ALL THOSE PASSING THROUGH OR ADJACENT TO THE SITE.

STORMWATER AND ENVIRONMENTAL PROTECTION:

- 9.) THE CONTRACTOR SHALL PROTECT EXISTING DRAINAGE FACILITIES (TO INCLUDE CURB AND GUTTER) AND WATERWAYS FROM ADVERSE IMPACTS PER SECTION 1500 OF THE ARLINGTON COUNTY STANDARDS AND SPECIFICATIONS.
- 10.) ANY WORK WITHIN A RESOURCE PROTECTION AREA (RPA) SHALL COMPLY WITH THE REQUIREMENTS OF CHAPTER 61 OF THE COUNTY CODE (THE CHESAPEAKE BAY PRESERVATION ORDINANCE).

TREE PROTECTION:

- 11.) THE CONTRACTOR SHALL CONFINE ALL ACTIVITIES AT THE SITE ASSOCIATED WITH CONSTRUCTION ACTIVITIES, TO INCLUDE STORAGE OF EQUIPMENT AND OR MATERIALS, ACCESS TO THE WORK, FORMWORK, ECT. TO WITHIN THE DESIGNATED LIMITS OF DISTURBANCE (LOD).
- 12.) NO TREES SHALL BE REMOVED OR OTHERWISE AFFECTED UNLESS CLEARLY MARKED ON THE APPROVED PLAN.
- 13.) TREES SHALL BE PROTECTED PER THE REQUIREMENTS OF SECTION 02100 - CLEARING AND GRUBBING.

TRAFFIC CONTROL:

- 14.) CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST 3 WORKING DAYS PRIOR TO DISTURBING ANY EXISTING, OR INSTALLING ANY NEW, TRAFFIC SIGNS, SIGNALS, OR OTHER TRAFFIC CONTROL DEVICES.
- 15.) THE CONTRACTOR SHALL PREMARK THE LAYOUT OF ANY PERMANENT TRAFFIC CONTROL STRIPING, INDICATING THE PROPOSED LOCATION AND TYPE OF MARKING TO BE INSTALLED. THE PREMARKING MAY CONSIST OF TYPED TAPE, CHALK, OR LUMBER CRAYONS. THE CONTRACTOR SHALL ALLOW 3 WORKING DAYS FOR THE INSPECTION AND APPROVAL OF THE PREMARKINGS PRIOR TO PLACING THE PERMANENT MARKINGS.
- 16.) THE CONTRACTOR SHALL SUBMIT ANY REQUESTS FOR TEMPORARY "NO PARKING" RESTRICTIONS TO THE ENGINEER AT LEAST 3 WORKING DAYS PRIOR TO THE DESIRED ONSET OF RESTRICTIONS.
- 17.) THE CONTRACTOR SHALL PRESERVE ALL BUS STOPS, INCLUDING MAINTAINING ADEQUATE ACCESS THROUGH AND ADJACENT TO THE CONSTRUCTION FOR BUSES AND THEIR PASSENGERS. THE CONTRACTOR SHALL NOT CLOSE, RELOCATE, OR OTHERWISE MODIFY A BUS STOP WITHOUT PRIOR REQUEST OF THE ENGINEER. TYPICALLY ANY RELOCATION OR CLOSURE OF A BUS STOP WILL REQUIRE AT LEAST FOUR WEEKS ADVANCE NOTICE FOR COORDINATION WITH THE COUNTY'S BUS STOP COORDINATOR.
- 18.) WHEN CONDITIONS WARRANT DUE TO TRAFFIC VOLUMES, PATTERNS, OR SPECIAL EVENTS, THE COUNTY MAY SUSPEND OR OTHERWISE DIRECT THE CONTRACTOR'S ACTIVITIES TO PROTECT THE PUBLIC AND OR THE COUNTY'S TRANSPORTATION NETWORK.
- 19.) PROTECT WORK HOURS SHALL BE AS FOLLOWS:
 IN ARLINGTON RIGHT-OF-WAY - 9:00AM TO 4:00PM (MON.-FRI.)
 IN VDOT'S RIGHT-OF-WAY - 9:00AM TO 3:00PM (MON.-THURS.) AND 9:00AM TO 2:00PM (FRI.)
- 20.) COORDINATE WITH ARLINGTON COUNTY TRANSIT BUREAU, 703-228-3049, AT LEAST FOUR WEEKS PRIOR TO COMMENCEMENT OF WORK FOR APPROVAL, IF TRANSIT IS AFFECTED.
- 21.) ALL EXISTING FIRE HYDRANTS AND FIRE DEPARTMENT CONNECTIONS SHALL BE MAINTAINED UNOBSTRUCTED AND ACCESS BLEAT ALL TIMES IN ACCORDANCE WITH SECTIONS 508.5.4 AND 508.5.5 OF THE ARLINGTON COUNTY FIRE PREVENTION CODE.
- 22.) ACCESS TO BUILDINGS FOR FIREFIGHTING SHALL BE MAINTAINED AT ALL TIMES. EXISTING FIRE APPARATUS ACCESS ROADS (FIRE LANES) SHALL BE KEPT CLEAR OF OBSTRUCTIONS IN ACCORDANCE WITH SECTION 503.4 OF THE ARLINGTON COUNTY FIRE PREVENTION CODE. ACCESS TO CONSTRUCTION SITES SHALL BE PROVIDED AND MAINTAINED IN ACCORDANCE WITH SECTION 1410 OF THE ARLINGTON COUNTY FIRE PREVENTION CODE.
- 23.) IN THE EVENT THAT EXISTING FIRE DEPARTMENT CONNECTIONS OR FIRE APPARATUS ACCESS ROADS (FIRE LANES) MUST BE OBSTRUCTED TO FACILITATE CONSTRUCTION ACTIVITIES, CONTACT THE ARLINGTON COUNTY FIRE DEPARTMENT OF FIRE PREVENTION OFFICE AT 703-228-4644 TO COORDINATE REVIEW AND APPROVAL OF TEMPORARY FIRE DEPARTMENT CONNECTIONS AND/OR FIRE APPARATUS ACCESS ROADS PRIOR TO CREATING THE OBSTRUCTION.

WATER DISTRIBUTION, STORM, AND, SANITARY SEWER SYSTEMS:

- 24.) UNLESS OTHERWISE DIRECTED, CONTRACTORS ARE EXPRESSLY PROHIBITED FROM OPERATING ANY WATER VALVES OR APPURTENANCES. CONTRACTORS SHALL SUBMIT ALL REQUESTS FOR VALVE OPERATIONS TO THE ENGINEER AT LEAST 3 WORKING DAYS IN ADVANCE OF THE REQUIRED OPERATION.
- 25.) IN THE EVENT OF A WATER OR SEWER EMERGENCY, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE COUNTY'S WATER CONTROL CENTER AT 703-228-5555 AND THE ENGINEER.
- 26.) STORM OR SANITARY SEWERS AND APPURTENANCES TO BE ABANDONED SHALL BE EXCAVATED AND REMOVED, OR ABANDONED AS DETAILED IN THE COUNTY'S STANDARDS AND SPECIFICATIONS.
- 27.) WATERMAIN JOINTS ARE ASSUMED TO HAVE 1.5' OF DEFLECTION AT EACH JOINT. PRODUCT SELECTION SHALL ACCOMMODATE THIS DEFLECTION.

WORK WITHIN A VDOT RIGHT-OF-WAY:

- 28.) WHEN REQUIRED FOR THE WORK, AN APPROVED VIRGINIA DEPARTMENT OF TRANSPORTATION (VDOT) PERMIT WILL BE PROVIDED BY THE COUNTY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADHERING TO AND IMPLEMENTING ALL PERMIT REQUIREMENTS.
- 29.) THE CONTRACTOR SHALL HAVE AT LEAST ONE EMPLOYEE ON-SITE CERTIFIED BY VDOT IN BASIC WORK ZONE TRAFFIC CONTROL AND WILL BE RESPONSIBLE FOR THE PLACEMENT, MAINTENANCE, AND REMOVAL OF WORK ZONE TRAFFIC CONTROL DEVICES WITHIN THE PROTECTED LIMITS IN COMPLIANCE WITH THE PERMIT REQUIREMENTS AND CONDITIONS, THE APPROVED PLANS, SPECIFICATIONS, THE VIRGINIA WORK AREA PROTECTION MANUAL AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- 30.) THE CONTRACTOR SHALL HAVE AT LEAST ONE EMPLOYEE ON-SITE WHO HAS COMPLETED VDOT EROSION AND SEDIMENT CONTROL CONTRACTOR CERTIFICATION TRAINING AND WILL BE RESPONSIBLE FOR ENSURING COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL EROSION AND SEDIMENT CONTROL REGULATIONS DURING ALL LAND DISTURBANCE ACTIVITIES.

ADJACENT AND CONCURRENT PROJECTS:

- 31.) THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COORDINATION OF THE CONSTRUCTION OF THE PARK WITH ALL ADJACENT ACTIVE PROJECTS WITHIN THE VICINITY OF THE PROJECT.



DEPARTMENT OF PARKS
AND RECREATION

Park Development Division
2100 Clarendon Boulevard, Suite 414
Arlington, VA 22201
Phone: 703.228.3332
Fax: 703.228.3328

ITB #23-DPR-ITBPW-450

#SWM 22-0224

Project Name and Location

**ARLINGTON
JUNCTION PARK**

FINAL PLAN

1051 SOUTH EADS STREET

ARLINGTON, VIRGINIA

Sheet Title

**GENERAL
NOTES**

Approval _____ Date _____

Design Supervisor _____

Revisions _____ Date _____

CEP#2 _____ 12/21/2022

CEP#3 _____ 06/02/2023

BUILDING PERMIT _____ 02/15/2023

REVISED BUILDING PERMIT _____ 04/20/2023

CEP#4 _____ 07/21/2023

Designed: ME

Drawn: ME

Checked: JA

Filename: _____

Plotted: _____

Scale: AS SHOWN

Date: July 21, 2023

Seal



Sheet

C1.000

ARLINGTON COUNTY, VIRGINIA DEPARTMENT OF ENVIRONMENTAL SERVICES		
GENERAL NOTES ARLINGTON JUNCTION PARK—CIVIL ENGINEERING PLAN 1051 SOUTH EADS STREET ARLINGTON COUNTY, VA		
SCALE: AS SHOWN	SHEET C1.000	

ITB #23-DPR-ITBPW-450

#SWM 22-0224

Project Name and Location

ARLINGTON JUNCTION PARK

FINAL PLAN

1051 SOUTH EADS STREET

ARLINGTON, VIRGINIA

Sheet Title

LEGEND AND ABBREVIATIONS

Approval _____ Date _____

Design Supervisor _____

Revisions _____ Date _____

CEP#2 _____ 12/21/2022

CEP#3 _____ 06/02/2023

BUILDING PERMIT _____ 02/15/2023

REVISED BUILDING PERMIT _____ 04/20/2023

CEP#4 _____ 07/21/2023

Designed: ME

Drawn: ME

Checked: JA

Filename: _____

Plotted: _____

Scale: AS SHOWN
 Date: July 21, 2023

Seal



Sheet

C1.010

PROPOSED LINETYPES

— LOW — LOW —	LIMITS OF WORK
— 2 —	PROPOSED INDEX CONTOUR MAJOR
— 25 —	PROPOSED INT. CONTOUR MINOR
---	PROPOSED PROPERTY LINE
---	PROPOSED PROPERTY SETBACK
---	PROPOSED RIGHT-OF-WAY BOUNDARY
---	PROPOSED ROAD CENTERLINE
---	PROPOSED BUILDING OUTLINE
---	PROPOSED BUILDING OVERHANG
— X — X —	PROPOSED FENCE
— X — X —	PROPOSED GUARDRAIL
---	PROPOSED CURB & GUTTER
---	PROPOSED CURB
---	PROPOSED PARKING LINE
---	PROPOSED RETAINING WALL
---	PROPOSED EASEMENT
---	PROPOSED SIGN DISTANCE EASEMENT
---	PROPOSED STORM EASEMENT
---	PROPOSED WATERLINE EASEMENT
---	PROPOSED SANITARY EASEMENT
---	PROPOSED COMM. EASEMENT
---	PROPOSED GASLINE EASEMENT
---	PROPOSED POWERLINE EASEMENT
---	PROPOSED UTILITY EASEMENT
---	PROPOSED TREE LINE
---	PROPOSED STORM DITCH TOP
---	PROPOSED STORM DITCH BOTTOM
---	PROPOSED STORM DITCH CENTER
---	PROPOSED STORM HGL
---	PROPOSED STORM PIPE
---	PROPOSED WATERLINE
---	PROPOSED SANITARY SEWER
— OHE — OHE —	PROPOSED OVERHEAD ELECTRIC
— E — E — E —	PROPOSED UNDERGROUND ELECTRIC
— FO — FO —	PROPOSED UNDERGROUND COMM. LINE
— OHU —	PROPOSED OVERHEAD COMM. LINE

SURFACES

	PROPOSED SIDEWALK
	PROPOSED CONCRETE (ROADWAY)
	PROPOSED ASPHALT
	PROPOSED MILL AND OVERLAY
	PROPOSED STAMPED CONCRETE
	PROPOSED PERMEABLE PAVERS
	PROPOSED POURED-IN-PLACE SURFACING
	PROPOSED BIORETENTION

PROPOSED UTILITIES

	ACCESSIBLE CURB RAMP
	ACCESSIBLE PARKING SPACE
	CURB RAMP LABEL
	BOLLARD
	CENTERLINE
	MONUMENT
	TEST HOLE
	PROPOSED SPOT ELEVATION
	PROPOSED PARKING COUNT
	PROPOSED STORM STRUCTURE NUMBER
	PROPOSED STORM LABEL
	12" Concrete Pipe
	PROPOSED STORM MANHOLE
	PROPOSED STORM INLET STRUCTURE
	PROPOSED END SECTION
	FIRE DEPARTMENT CONNECTION
	FIRE HYDRANT
	FLOW DIRECTION ARROW
	WATER METER
	WATER VALVE WELL
	LIGHT (MISC.)
	STREET LIGHT
	PROPOSED LIGHT POLE
	PROPOSED SANITARY SEWER STRUCTURE NUMBER
	PROPOSED SANITARY SEWER LABEL
	PROPOSED SANITARY SEWER MANHOLE

EROSION & SEDIMENT CONTROL

	TEMPORARY CONSTRUCTION ENTRANCE, SPEC. 3.02
	TEMP VEHICLE STREAM CROSSING, SPEC. 3.24
	UTILITY STREAM CROSSING, SPEC. 3.25
	INLET PROTECTION, SPEC. 3.07
	CULVERT OUTLET PROTECTION, SPEC. 3.18
	CULVERT INLET PROTECTION, SPEC. 3.08
	SILT FENCE, SPEC. 3.05-2
	SUPER SILT FENCE, SPEC. 3.05-2
	TREE PROTECTION FENCING, SPEC. 3.38
	ROOT PRUNING, SPEC. 3.38
	ORANGE SAFETY FENCE, SPEC. 3.01-A
	DIVERSION DIKE, SPEC. 3.09
	RIGHT-OF-WAY DIVERSION DIKE, SPEC. 3.11
	SEDIMENT TRAP, SPEC. 2-11
	ROCK CHECK DAM, SPEC. 3.20
	POST DEVELOPMENT DRAINAGE DIVIDES
	PRE DEVELOPMENT DRAINAGE DIVIDES
	CRITICAL SLOPE

ABBREVIATIONS

A/C	AIR CONDITIONER	H/EV	HYBRID/ELECTRIC VEHICLE
APPROX	APPROXIMATE	IPF	IRON PIPE FOUND
BC	BOTTOM OF CURB	IRF	IRON ROD FOUND
BLDG	BUILDING	INV	INVERT
BR	BOTTOM OF RAMP	LOD	LIMIT OF DISTURBANCE
C&G	CURB & GUTTER	LOW	LIMIT OF WORK
CI	CAST IRON PIPE	LP	LOW POINT
CLR	CLEARANCE	MH	MANHOLE
C/O	CLEANOUT	MAX	MAXIMUM
COMM	COMMUNICATION	MIN	MINIMUM
CONC	CONCRETE	O/W	OBSERVATION WELL
CONSTR	CONSTRUCTION	PVMT	PAVEMENT
Cu	COPPER	PPF	PINCH PIPE FOUND
CMP	CORRUGATED METAL PIPE	PROP	PROPOSED
CPP	CORRUGATED PLASTIC PIPE	RCP	REINFORCED CONCRETE PIPE
DEP	DEPRESSED CURB	RW	RETAINING WALL
DIP	DUCTILE IRON PIPE	ROW	RIGHT-OF-WAY
ESMT	EASEMENT	SAN SEW	SANITARY SEWER
EP	EDGE OF PAVEMENT	SAN SEW ESMT	SANITARY SEWER EASEMENT
EL	ELEVATION	SHLDR	SHOULDER
EV	ELECTRIC VEHICLE	SW	SIDEWALK
EX	EXISTING	SNS	STREET NAME SIGN
FC	FACE OF CURB	SS	STOP SIGN
FF	FINISH FLOOR ELEVATION	TEMP	TEMPORARY
FH	FIRE HYDRANT	TBRL	TO BE RELOCATED
FL	FLOWLINE	TBR	TO BE REMOVED
FM	FORCE MAIN	TC	TOP OF CURB
GRD	GRADE	TR	TOP OF RAMP
HDCO	HEAVY DUTY CLEANOUT	TW/BW	TOP/BOTTOM OF WALL
HW	HEADWATER	TOP/BOT	TOP/BOTTOM OF FEATURE
HP	HIGH POINT	UD	UNDERDRAIN
		METR	WATER METER
		W/L ESMT	WATERLINE EASEMENT
		WSEL	WATER SURFACE ELEVATION
		WM	WATERMAIN
		YR	YEAR

ARLINGTON COUNTY, VIRGINIA DEPARTMENT OF ENVIRONMENTAL SERVICES		
LEGEND AND ABBREVIATIONS ARLINGTON JUNCTION PARK—CIVIL ENGINEERING PLAN 1051 SOUTH EADS STREET ARLINGTON COUNTY, VA		
SCALE: AS SHOWN	SHEET C1.010	

ITB #23-DPR-ITBPW-450

#SWM 22-0224

Project Name and Location
ARLINGTON JUNCTION PARK

FINAL PLAN

1051 SOUTH EADS STREET

ARLINGTON, VIRGINIA

Sheet Title
SITE DETAILS

Approval _____ Date _____

Design Supervisor _____

Revisions _____ Date _____

CEP#2 _____ 12/21/2022

CEP#3 _____ 06/02/2023

BUILDING PERMIT _____ 02/15/2023

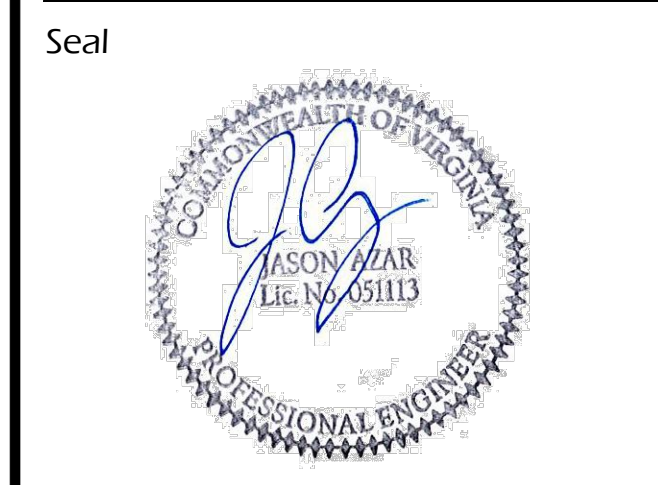
REVISED BUILDING PERMIT _____ 04/20/2023

CEP#4 _____ 07/21/2023

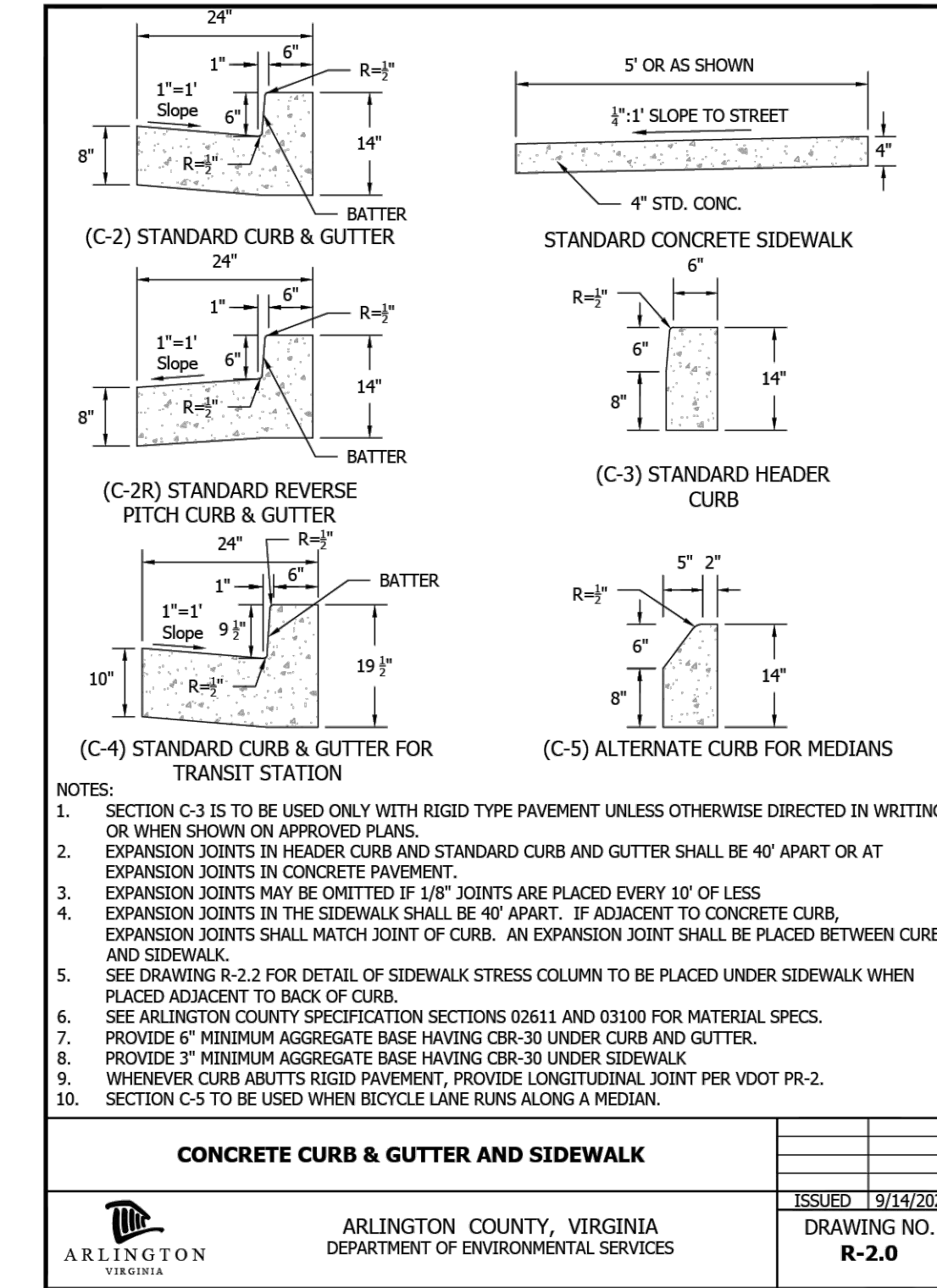
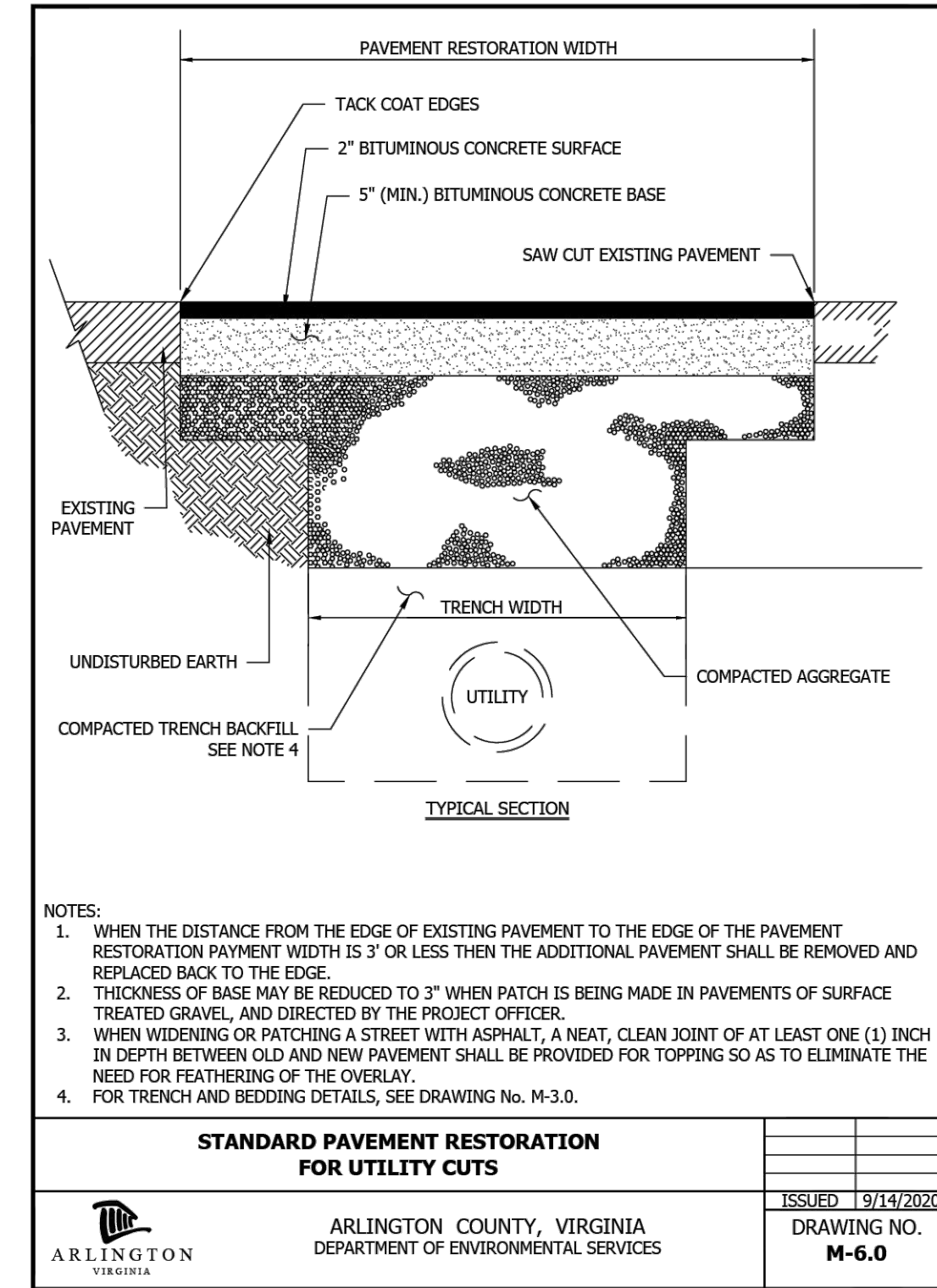
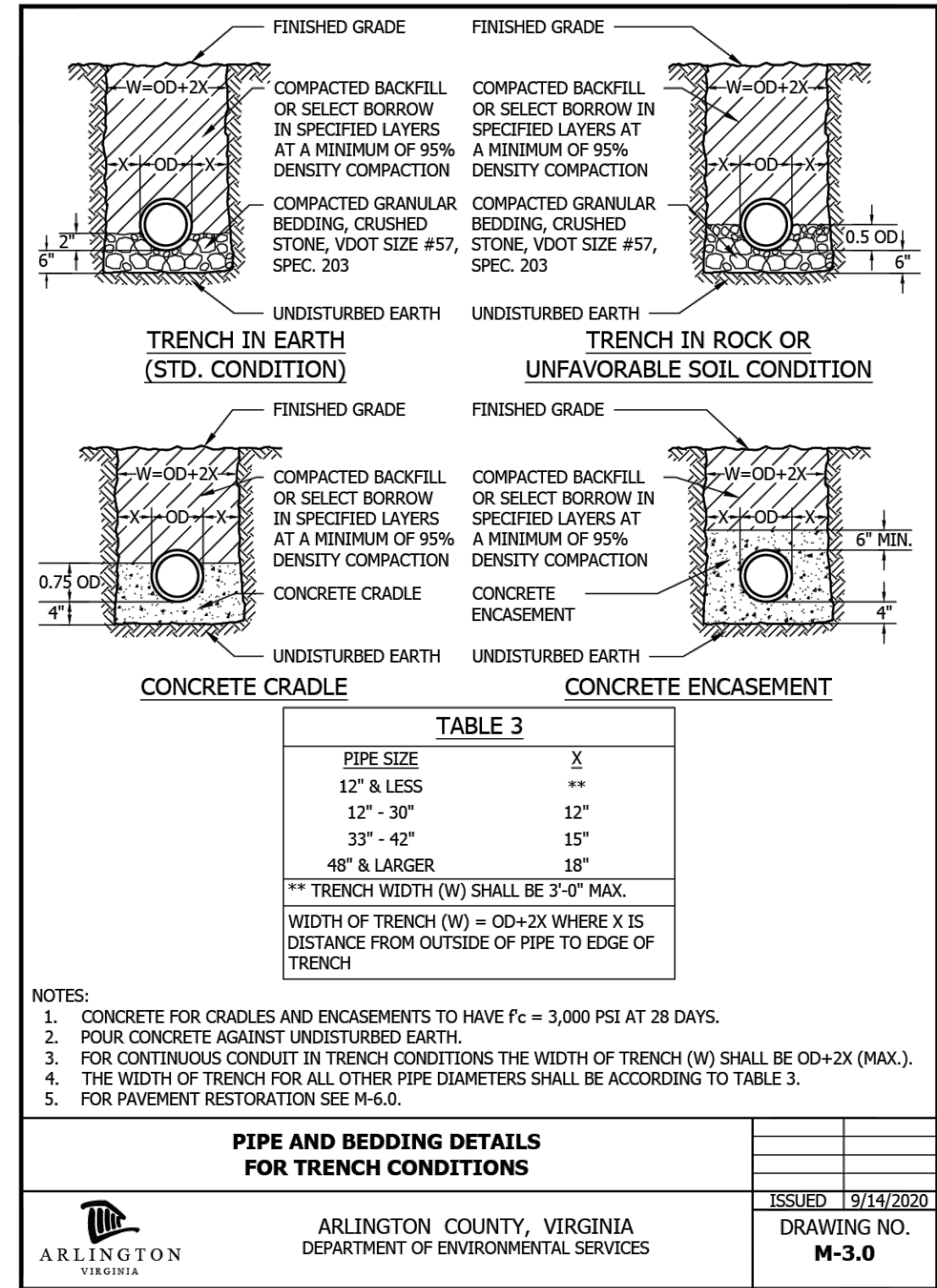
Designed: ME
 Drawn: ME
 Checked: JA

Filename: _____
 Plotted: _____

Scale: AS SHOWN
 Date: July 21, 2023



Sheet
C2.000



ITB #23-DPR-ITBPW-450

#SWM 22-0224

Project Name and Location

ARLINGTON JUNCTION PARK

FINAL PLAN

1051 SOUTH EADS STREET

ARLINGTON, VIRGINIA

Sheet Title

EXISTING CONDITIONS

Approval Date

Design Supervisor

Revisions Date

CEP#2 12/21/2022

CEP#3 06/02/2023

BUILDING PERMIT 02/15/2023

REVISED BUILDING PERMIT 04/20/2023

CEP#4 07/21/2023

Designed: ME

Drawn: ME

Checked: JA

Filename:

Plotted:

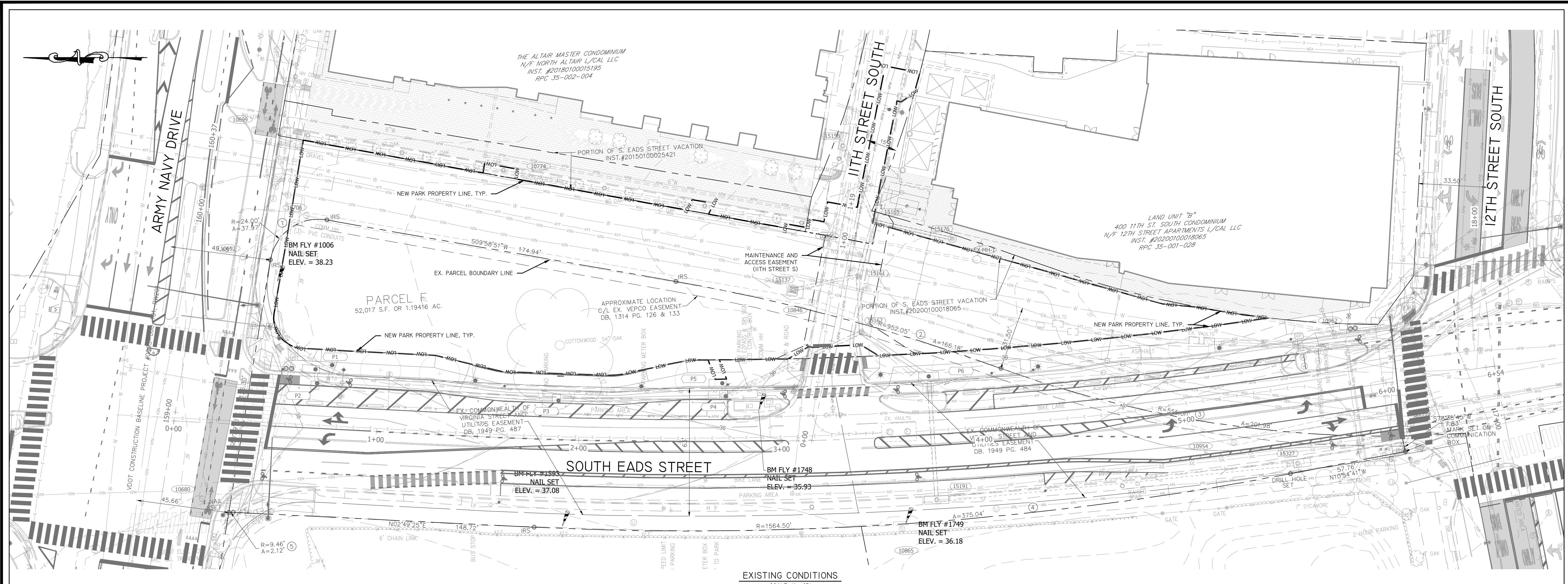
Scale: AS SHOWN
 Date: July 21, 2023

Seal



Sheet

C3.000



EXISTING CONDITIONS
 SCALE: 1" = 25'

BENCHMARK TABLE				
BM #	Northing	Easting	Elevation	TYPE
1006	7001190.3660	11894604.6587	38.23	NAIL SET
1593	7001049.8315	11894483.8268	37.08	NAIL SET
1748	7000952.8368	11894541.5597	35.93	NAIL SET
1749	7000880.2594	11894485.3244	36.18	NAIL SET

- GENERAL SURVEY NOTES:**
- THIS TOPOGRAPHIC AND BOUNDARY SURVEY WAS COMPLETED BY JEFF WARNER LAND SURVEYING, INC. AS FIELD-RUN GROUND SURVEY; THE IMAGE AND/OR ORIGINAL DATA WAS OBTAINED FROM 10/2021 TO 11/2021; AND THIS PLAT, MAP OR DIGITAL GEOSPATIAL DATA INCLUDING METADATA MEETS MINIMUM ACCURACY STANDARDS UNLESS OTHERWISE NOTED.
 - HORIZONTAL DATUM: VIRGINIA COORDINATE SYSTEM 1983.
 - VERTICAL DATUM: NORTH AMERICA VERTICAL DATUM 1988.
 - CONTOUR INTERVAL: 1'

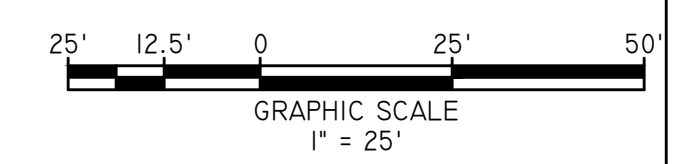
STORM STRUCTURE TABLE

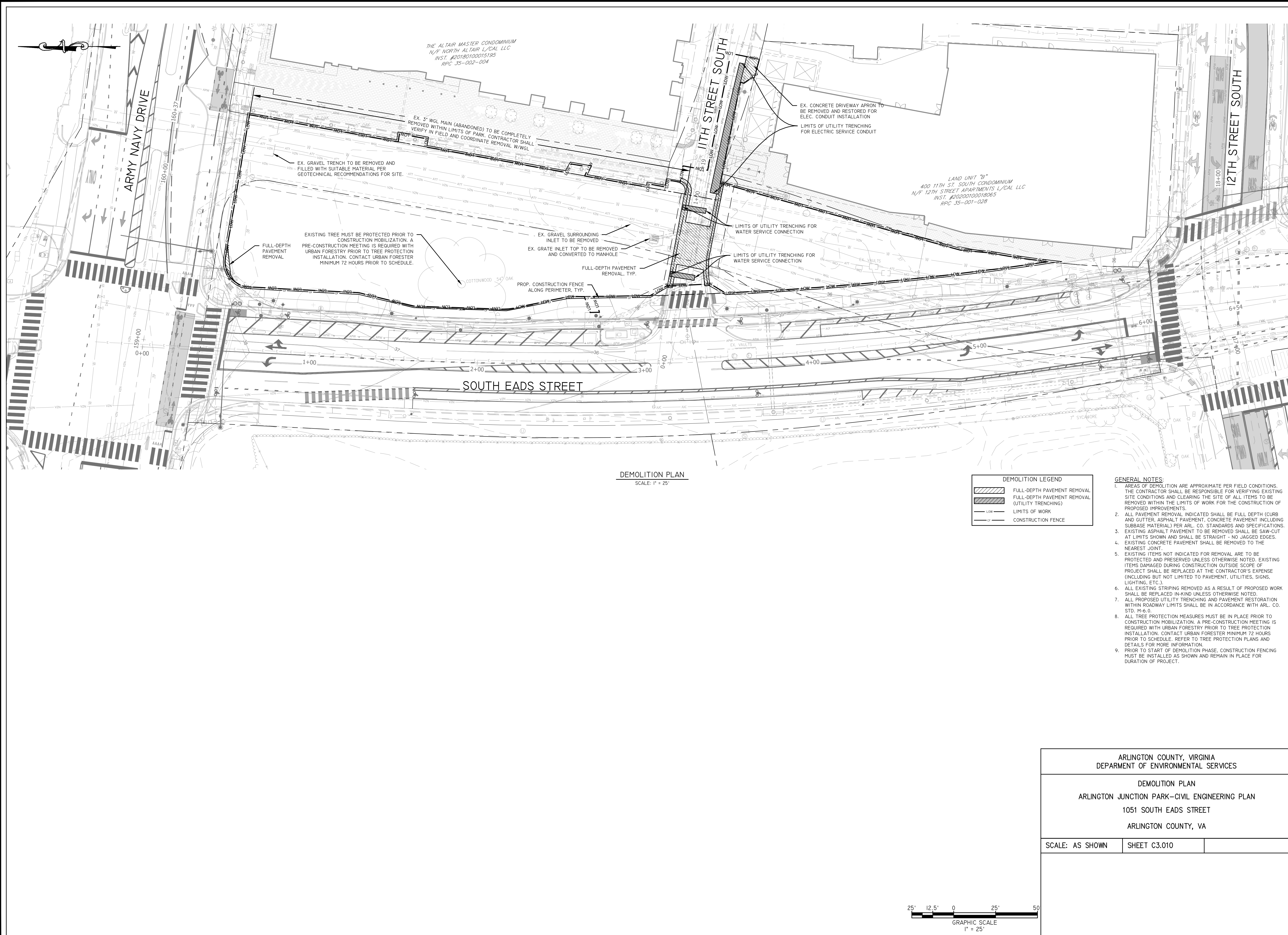
Structure #	Data	Structure #	Data	Structure #	Data
15137	VDOT DI-2A TOP = 34.46 INV. OUT = 31.56 (15" RCP) TO 15161	15189	EX MH TOP = 36.12 INV. OUT = 32.04 (8" PVC) TO 15165	*P3	STD ARL MH-1 TOP = 36.17 INV. IN = 33.13 (15" CL. III RCP) FROM P2 INV. OUT = 33.03 (15" CL. III RCP) TO P4
15158	CB-2 TOP = 34.99 INV. OUT = 31.05 (18" RCP) TO 15165	15191	VDOT DI-2 L-12' TOP = 35.59 INV. IN = 21.93 (18" RCP) FROM 15 INV. OUT = 21.77 (18" RCP) TO 15327	*P4	STD ARL MH-1 TOP = 35.74 INV. IN = 32.21 (15" CL. III RCP) FROM P3 INV. IN = 32.21 (15" CL. III RCP) FROM P5 INV. OUT = 32.11 (15" RCP) TO 15162
15161	EX MH TOP = 35.34 INV. IN = 29.82 (15" RCP) FROM 15137 INV. IN = 29.94 (18" RCP) FROM 15165 INV. OUT = 22.45 (18" RCP) TO 15162	15327	VDOT DI-2 L-15' TOP = 36.22 INV. IN = 20.72 (18" RCP) FROM 15191	*P5	STD ARL PCB-2 L-8' TOP = 36.09 INV. OUT = 32.24 (15" CL. III RCP) TO P4
15162	EX MH TOP = 35.87 INV. IN = 30.87 (15" RCP) FROM P4 INV. IN = 22.15 (18" RCP) FROM 15161 INV. OUT = 22.15 (18" CL. IV RCP) TO P6	15374	CB-2 TOP = 32.44	*P6	STD ARL PCB-2 L-10' TOP = 35.42 INV. IN = 22.05 (18" CL. IV RCP) FROM 15162 INV. OUT = 22.05 (18" CL. IV RCP) TO 15
15165	EX MH TOP = 35.43 INV. IN = 31.38 (18" RCP) FROM 15158 INV. IN = 31.41 (8" PVC) FROM 15189 INV. IN = 32.59 (15" RCP) FROM 15176 INV. OUT = 31.02 (18" RCP) TO 15161	*P1	STD ARL MH-1 TOP = 37.73 INV. IN = 34.42 (15" CL. III RCP) FROM P1 INV. OUT = 34.32 (15" CL. III RCP) TO P3		
15176	EX MH TOP = 36.90 INV. OUT = 33.18 (15" RCP) TO 15165				

NOTE: STRUCTURES INDICATED WITH "*" ARE TO BE CONSTRUCTED AS PART OF SOUTH EADS CC13 ROADWAY IMPROVEMENTS PROJECT

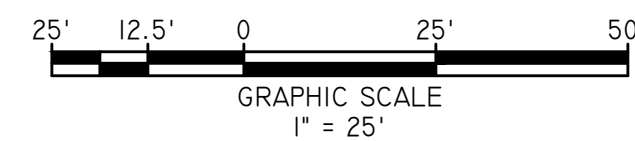
SANITARY SEWER STRUCTURE TABLE

Structure #	Data	Structure #	Data	Structure #	Data
10680	TOP = 38.77 (UNABLE TO ACCESS)	10846	STRUCTURE DOES NOT EXIST PER DES RECORDS. LOCATION SHOWN FOR INFORMATION ONLY.	10999	TOP = 36.35 (UNABLE TO ACCESS)
10692	TOP = 38.39 C/L INV. = 31.81 (36") FROM 10774 C/L INV. = 31.81 (36") FROM 10706	10856	TOP = 35.33 C/L INV. = 25.18 (8") FROM 10774 C/L INV. = 26.37 (8") FROM C/L INV. = 25.16 (8") FROM EX-MH-1	EX-MH-1	TOP = UNKNOWN (UNABLE TO ACCESS)
10699	TOP = 38.20 (UNABLE TO ACCESS)	10865	TOP = 36.87 (UNABLE TO ACCESS)		
10706	TOP = 37.97 C/L INV. = 31.66 (36") FROM 10692 C/L INV. = 31.66 (36") FROM 10846	10954	TOP = 35.96 (UNABLE TO ACCESS)		
10774	TOP = 39.55 (UNABLE TO ACCESS)	10962	TOP = 37.21 C/L INV. = 21.98 (8") FROM EX-MH-1 C/L INV. = 21.72 (8") FROM		





DEMOLITION PLAN
SCALE: 1" = 25'



DEPARTMENT OF PARKS AND RECREATION
Park Development Division
2100 Clarendon Boulevard, Suite 414
Arlington, VA 22201
Phone: 703.228.3332
Fax: 703.228.3328

ITB #23-DPR-ITBPW-450

#SWM 22-0224

Project Name and Location
ARLINGTON JUNCTION PARK

FINAL PLAN

1051 SOUTH EADS STREET
ARLINGTON, VIRGINIA

Sheet Title
DEMOLITION PLAN

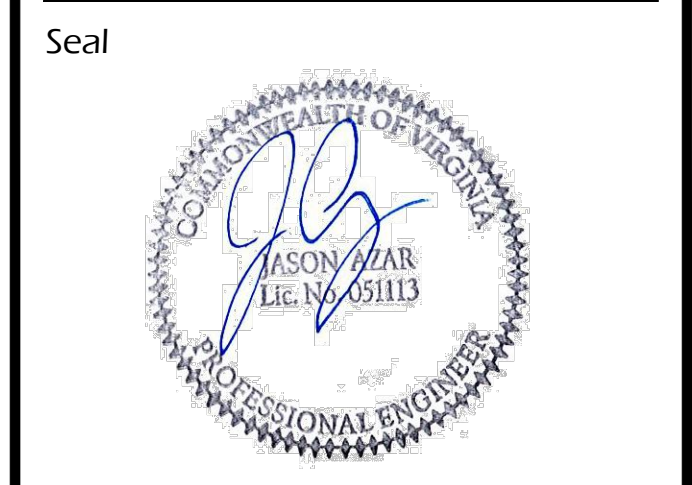
Approval _____ Date _____
Design Supervisor _____

Revisions	Date
CEP#2	12/21/2022
CEP#3	06/02/2023
BUILDING PERMIT	02/15/2023
REVISED BUILDING PERMIT	04/20/2023
CEP#4	07/21/2023

Designed: ME
Drawn: ME
Checked: JA

Filename:
Plotted:

Scale: AS SHOWN
Date: July 21, 2023

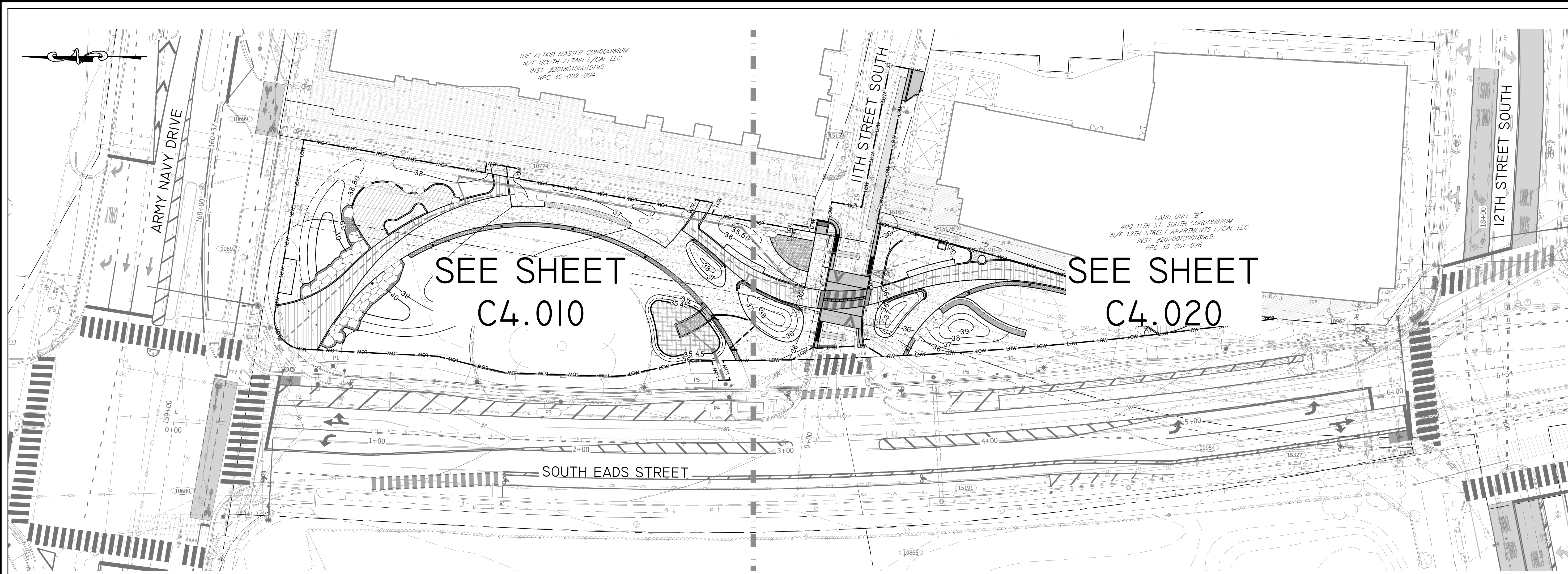


Sheet
C3.010

ARLINGTON COUNTY, VIRGINIA
DEPARTMENT OF ENVIRONMENTAL SERVICES

DEMOLITION PLAN
ARLINGTON JUNCTION PARK-CIVIL ENGINEERING PLAN
1051 SOUTH EADS STREET
ARLINGTON COUNTY, VA

SCALE: AS SHOWN SHEET C3.010



SEE SHEET
C4.010

SEE SHEET
C4.020

OVERALL SITE AND GRADING PLAN
SCALE: 1" = 25'

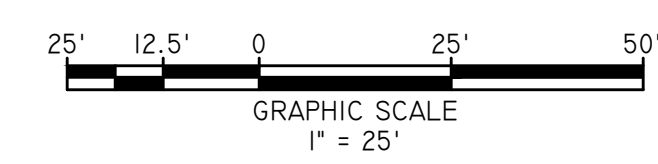
- GENERAL NOTES:**
1. ALL TRANSITIONS BETWEEN PROPOSED PAVEMENT TYPES SHALL BE FLUSH, UNLESS OTHERWISE NOTED.
 2. ALL PROPOSED PAVEMENT (INCLUDING MILL AND OVERLAY) SHALL BE FLUSH WITH EXISTING PAVEMENT.
 3. REFER TO LANDSCAPE PLAN SHEETS L101-L102, L312 FOR ALL CURB TYPES, LOCATIONS, AND DETAILS WITHIN PROPOSED PARK.
 4. LIMITS OF WORK SHOWN REFLECT EXTENTS OF ARLINGTON JUNCTION PARK PROJECT CONSTRUCTION. ADJACENT CCIS (S EADS ROADWAY IMPROVEMENTS PROJECT), LCOR DEVELOPMENT, AND CPOI (ARMY NAVY DRIVE IMPROVEMENTS PROJECT) ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING PARK CONSTRUCTION WITH ALL ONGOING CONCURRENT PROJECTS IN THE AREA.
 5. SPOT ELEVATIONS INDICATED AS "TC" (TOP OF CURB) REFER TO FLUSH CURB CONDITION ADJACENT TO PAVEMENT SURFACES - REFER TO LANDSCAPE DETAILS FOR CONDITIONS OUTSIDE OF PAVEMENT AREAS.

- ADA GRADING NOTES:**
1. ALL PROPOSED WALKING SURFACES SHALL BE CONSTRUCTED TO COMPLY WITH LATEST ADA STANDARDS AND FEDERAL GUIDELINES.
 2. MEASUREMENT OF SLOPES FOR ALL ADA-COMPLIANT SURFACES SHALL BE PERFORMED WITH A 2" DIGITAL LEVEL.
 3. ALL WALKWAYS SHALL BE CONSTRUCTED WITH A 4.5% MAX. LONGITUDINAL SLOPE AND 1.5% TRANSVERSE SLOPE (UNLESS OTHERWISE INDICATED).
 4. LANDINGS WITH A MAX. CROSS SLOPE OF 1.5% IN ALL DIRECTIONS SHALL BE PROVIDED AT ALL CHANGES IN WALKWAY DIRECTION OR AT VARIOUS COMPLIANT FEATURES AND AREAS (REFER TO GRADES AND SLOPES SHOWN ON PLAN).
 5. ALL CURB RAMPS SHALL NOT EXCEED 8.3% SLOPE.

ARLINGTON COUNTY, VIRGINIA
DEPARTMENT OF ENVIRONMENTAL SERVICES

OVERALL SITE AND GRADING PLAN
ARLINGTON JUNCTION PARK-CIVIL ENGINEERING PLAN
1051 SOUTH EADS STREET
ARLINGTON COUNTY, VA

SCALE: AS SHOWN SHEET C4.000



DEPARTMENT OF PARKS AND RECREATION

Park Development Division
2100 Clarendon Boulevard, Suite 414
Arlington, VA 22201
Phone: 703.228.3332
Fax: 703.228.3328

ITB #23-DPR-ITBPW-450

#SWM 22-0224

Project Name and Location
ARLINGTON JUNCTION PARK

FINAL PLAN

1051 SOUTH EADS STREET
ARLINGTON, VIRGINIA

Sheet Title
OVERALL SITE AND GRADING PLAN

Approval _____ Date _____

Design Supervisor _____

Revisions _____ Date _____

CEP#2 12/21/2022

CEP#3 06/02/2023

BUILDING PERMIT 02/15/2023

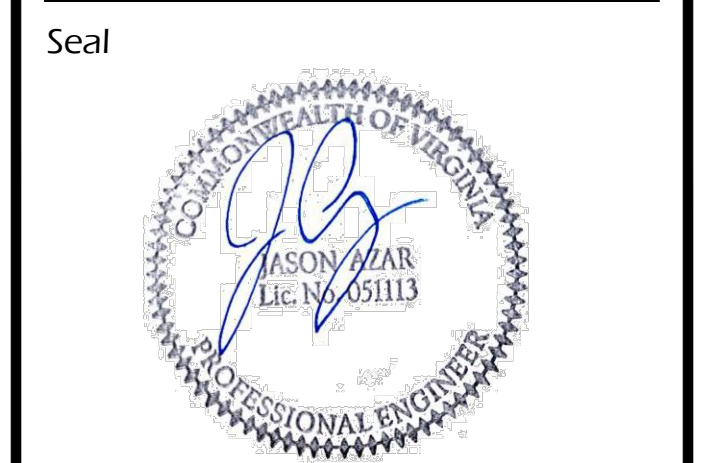
REVISED BUILDING PERMIT 04/20/2023

CEP#4 07/21/2023

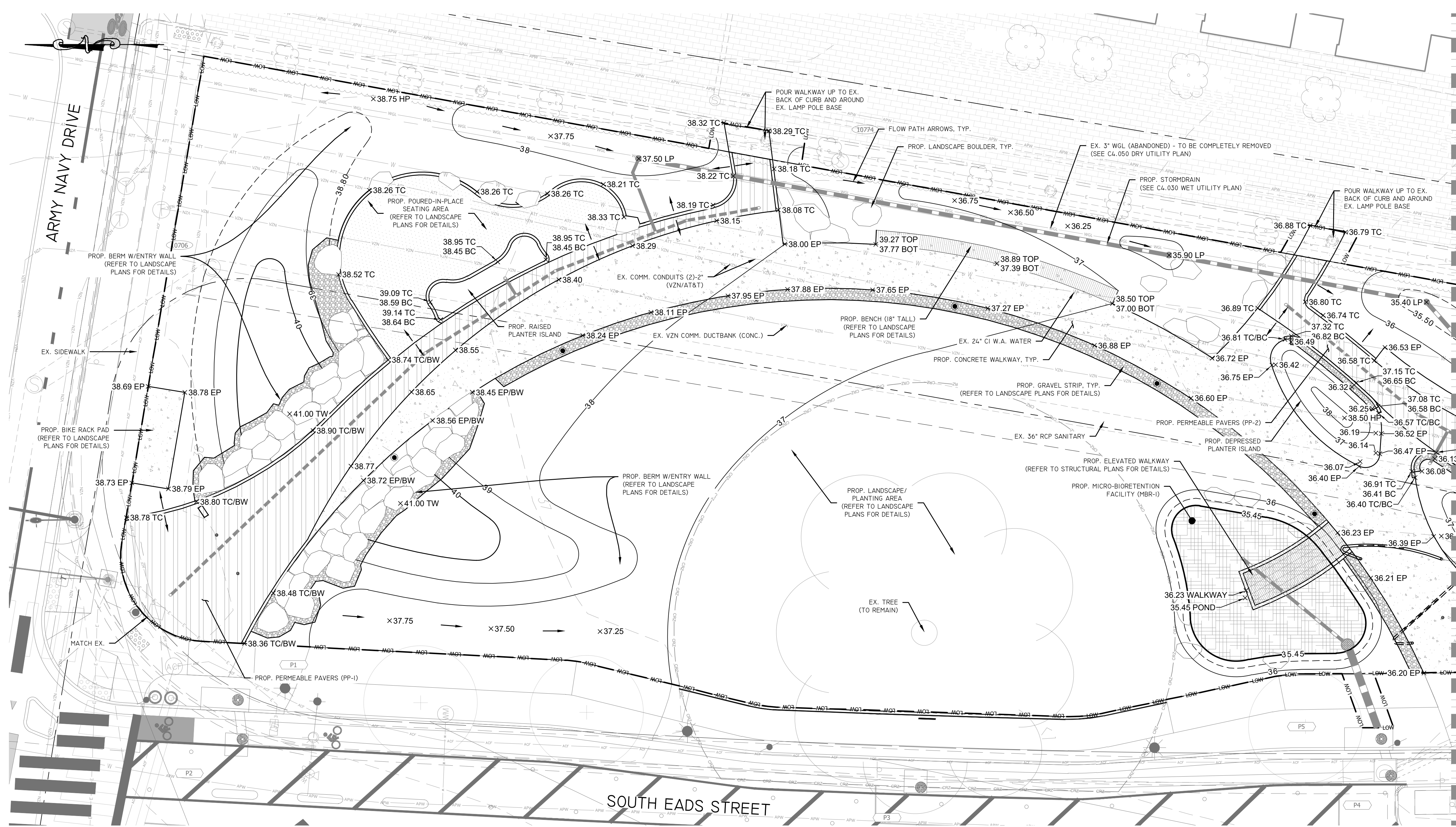
Designed: ME
Drawn: ME
Checked: JA

Filename: _____
Plotted: _____

Scale: AS SHOWN
Date: July 21, 2023

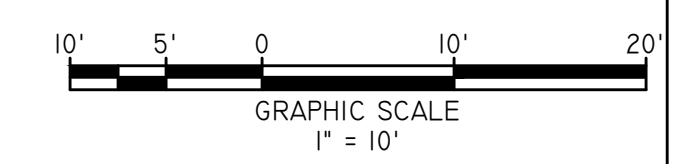


Sheet
C4.000



MATCH LINE - SEE SHEET
C4.020 SITE AND GRADING PLAN

SOUTH EADS STREET
SITE AND GRADING PLAN
SCALE: 1" = 10'



DEPARTMENT OF PARKS
AND RECREATION

Park Development Division
2100 Clarendon Boulevard, Suite 414
Arlington, VA 22201
Phone: 703.228.3332
Fax: 703.228.3328

ITB #23-DPR-ITBPW-450

#SWM 22-0224

Project Name and Location
**ARLINGTON
JUNCTION PARK**

FINAL PLAN

1051 SOUTH EADS STREET
ARLINGTON, VIRGINIA

Sheet Title
**SITE AND
GRADING PLAN**

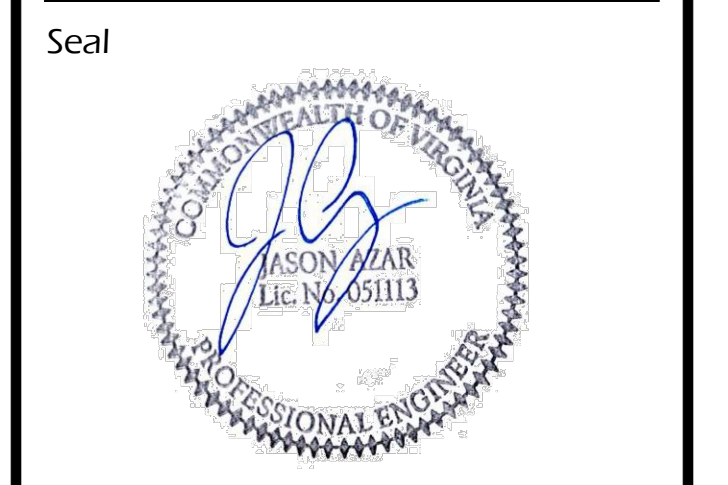
Approval _____ Date _____
Design Supervisor _____

Revisions	Date
CEP#2	12/21/2022
CEP#3	06/02/2023
BUILDING PERMIT	02/15/2023
REVISED BUILDING PERMIT	04/20/2023
CEP#4	07/21/2023

Designed: ME
Drawn: ME
Checked: JA

Filename: _____
Plotted: _____

Scale: AS SHOWN
Date: July 21, 2023



Sheet
C4.010

ARLINGTON COUNTY, VIRGINIA DEPARTMENT OF ENVIRONMENTAL SERVICES	
SITE AND GRADING PLAN ARLINGTON JUNCTION PARK-CIVIL ENGINEERING PLAN 1051 SOUTH EADS STREET ARLINGTON COUNTY, VA	
SCALE: AS SHOWN	SHEET C4.010

ITB #23-DPR-ITBPW-450

#SWM 22-0224

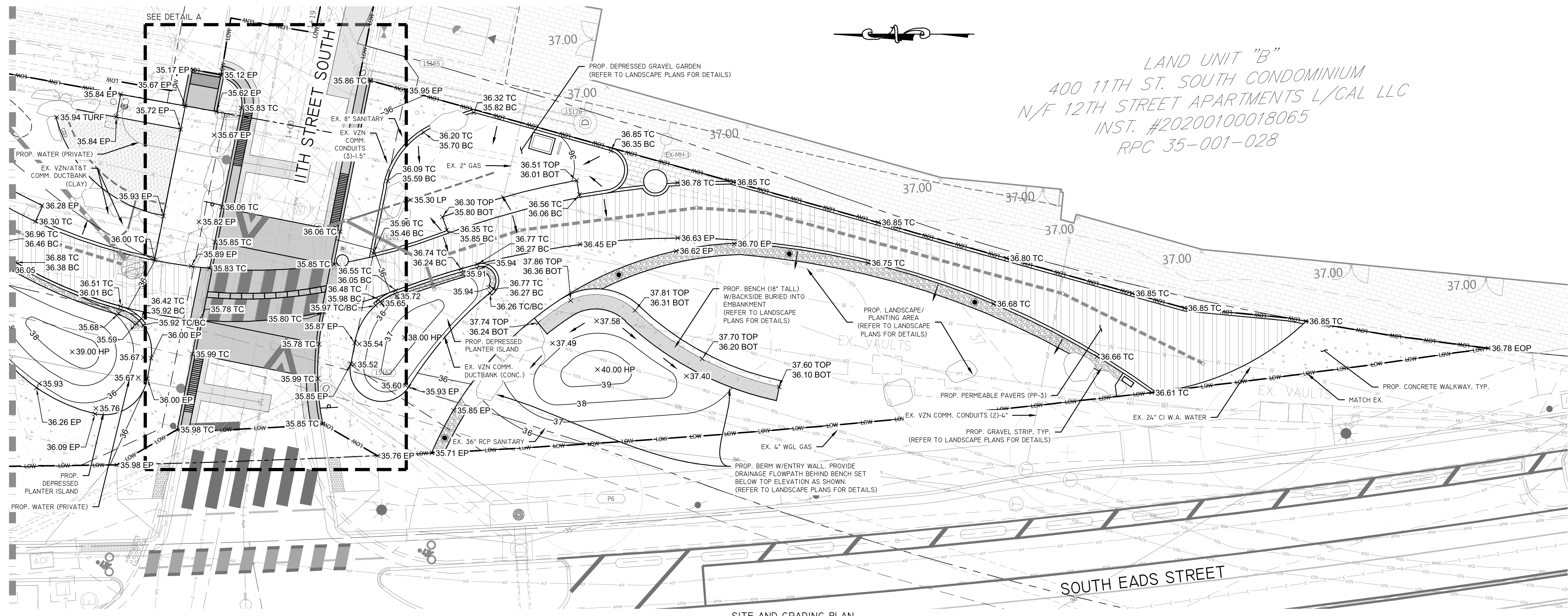
Project Name and Location
ARLINGTON JUNCTION PARK

FINAL PLAN

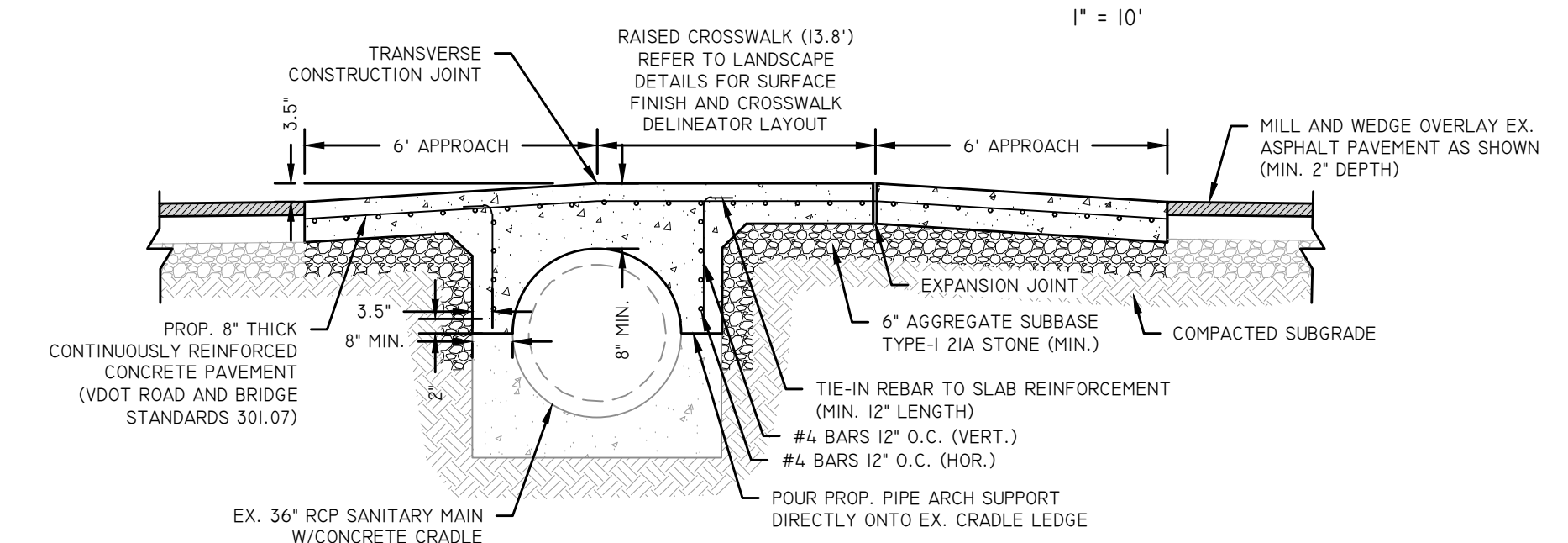
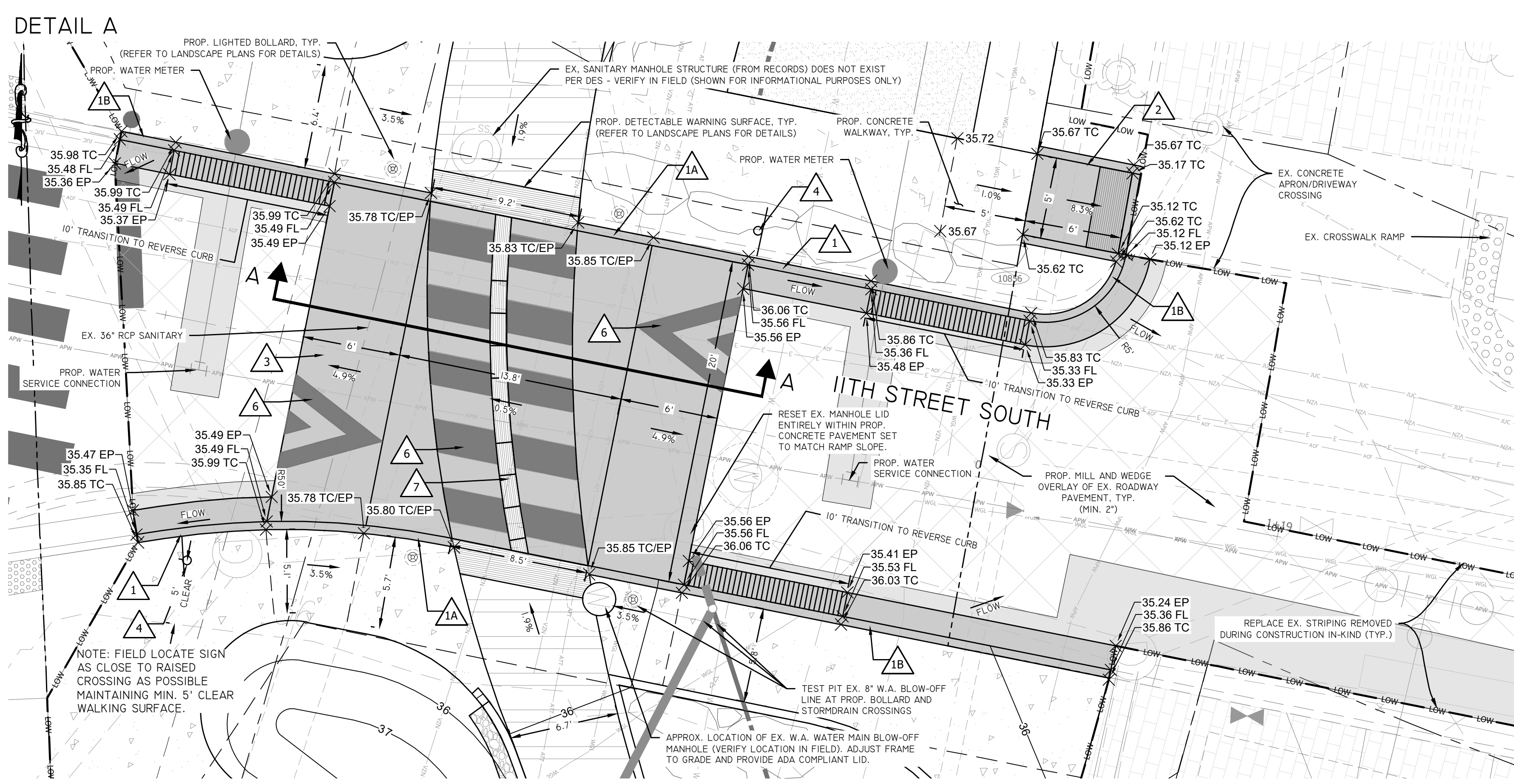
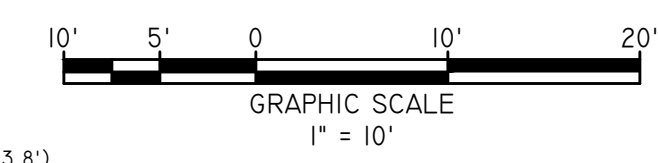
1051 SOUTH EADS STREET
 ARLINGTON, VIRGINIA

Sheet Title
SITE AND GRADING PLAN

MATCH LINE - SEE SHEET C4.010 SITE AND GRADING PLAN



SITE AND GRADING PLAN
 SCALE: 1" = 10'



- GENERAL NOTES:**
- CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING EX. SANITARY MAIN PIPE CONDITION, DEPTH, AND LOCATION PRIOR TO CONSTRUCTION AND NOTIFY THE COUNTY REPRESENTATIVE OF ANY DEFICIENCIES AND DISCREPANCIES IMMEDIATELY.
 - ALL WORK SHALL BE PERFORMED PER LATEST ARLINGTON COUNTY AND VDOT STANDARDS AND SPECIFICATIONS FOR MATERIALS AND CONSTRUCTION.
 - CONTRACTOR SHALL REFER TO LANDSCAPE PLANS AND DETAILS FOR CROSSWALK MATERIALS, DETAILS, AND DESIGN.
 - PROPOSED SECTION A-A IS ILLUSTRATIVELY OF THE TYPICAL CONDITION AT THE RAISED CROSSWALK RAMP, BUT VARIES BASED ON LOCATION ALONG EX. SANITARY MAIN.
 - LONGITUDINAL JOINT WITH DOWELS SHALL BE PROVIDED ALONG RAISED CROSSWALK EDGE WHERE ABUTTING PROPOSED CURB PER VDOT PR-2.

SECTION A-A
 SCALE: NTS

CONSTRUCTION NOTES

- PROP CURB AND GUTTER (C-2) ARL STD (R-2.0)
- PROP HEADER CURB (C-3) ARL STD (R-2.0)
- PROP REVERSE PITCH CURB & GUTTER (C-2-R) ARL STD (CR-2.0)
- PROP MODIFIED RAMP (CG-12A) VDOT ROAD & BRIDGE STANDARDS (204.02)
- PROP MODIFIED 3.5% RAISED MID-BLOCK CROSSWALK ARL STD (VSC-4.0) W/STAMPED CONCRETE PATTERN (SEE MODIFIED DETAILED SECTION THIS SHEET)
- PROP MID-BLOCK UNCONTROLLED CROSSWALK SIGN (W11-2 - 36"x36", W16-7P - 24"x12") PER ARL CO PAVEMENT MARKING SPECIFICATIONS DETAIL (MK-4). SIGN POST (TYPE A) SHALL BE INSTALLED PER ARL CO STANDARDS AND SPECIFICATIONS.
- PROP FULL-DEPTH ASPHALT REPLACEMENT ARL STD (M-6.0)
- PROP RAISED CROSSWALK SPEED TABLE PAVEMENT MARKING PER ARL CO PAVEMENT MARKING SPECIFICATIONS DETAILS (M-1A/MK-4A)
- PROP 1'-WIDE GAP IN CROSSWALK STRIPING FOR WAYFINDING STRIP (REFER TO LANDSCAPE DETAILS)

- STRIPING NOTES:**
- CONTRACTOR SHALL INSTALL ALL STRIPING PER ARL CO PAVEMENT MARKING STANDARDS AND SPECIFICATIONS.
 - ALL STRIPING SHALL BE REFLECTIVE THERMOPLASTIC.
 - ALL STRIPING ON RAISED CONCRETE CROSSWALK SPEED TABLE SHALL HAVE BLACK CONTRAST MARKING TAPE UNDERLAY APPLIED (OUTLINE CONTRAST).

ARLINGTON COUNTY, VIRGINIA
 DEPARTMENT OF ENVIRONMENTAL SERVICES

SITE AND GRADING PLAN
 ARLINGTON JUNCTION PARK-CIVIL ENGINEERING PLAN
 1051 SOUTH EADS STREET
 ARLINGTON COUNTY, VA

SCALE: AS SHOWN SHEET C4.020

Approval _____ Date _____

Design Supervisor _____

Revisions _____ Date _____

CEP#2 _____ 12/21/2022

CEP#3 _____ 06/02/2023

BUILDING PERMIT _____ 02/15/2023

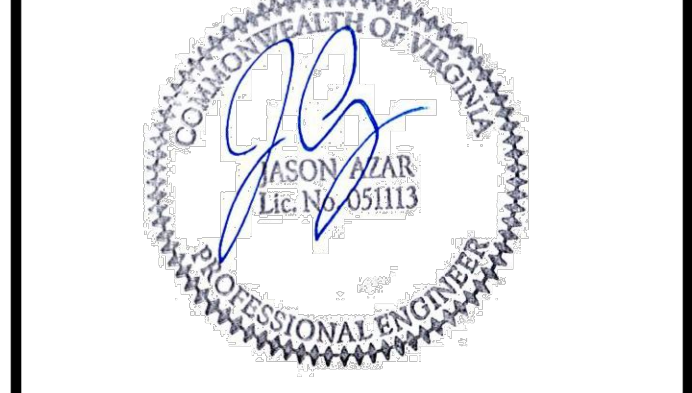
REVISED BUILDING PERMIT _____ 04/20/2023

CEP#4 _____ 07/21/2023

Designed: ME
 Drawn: ME
 Checked: JA

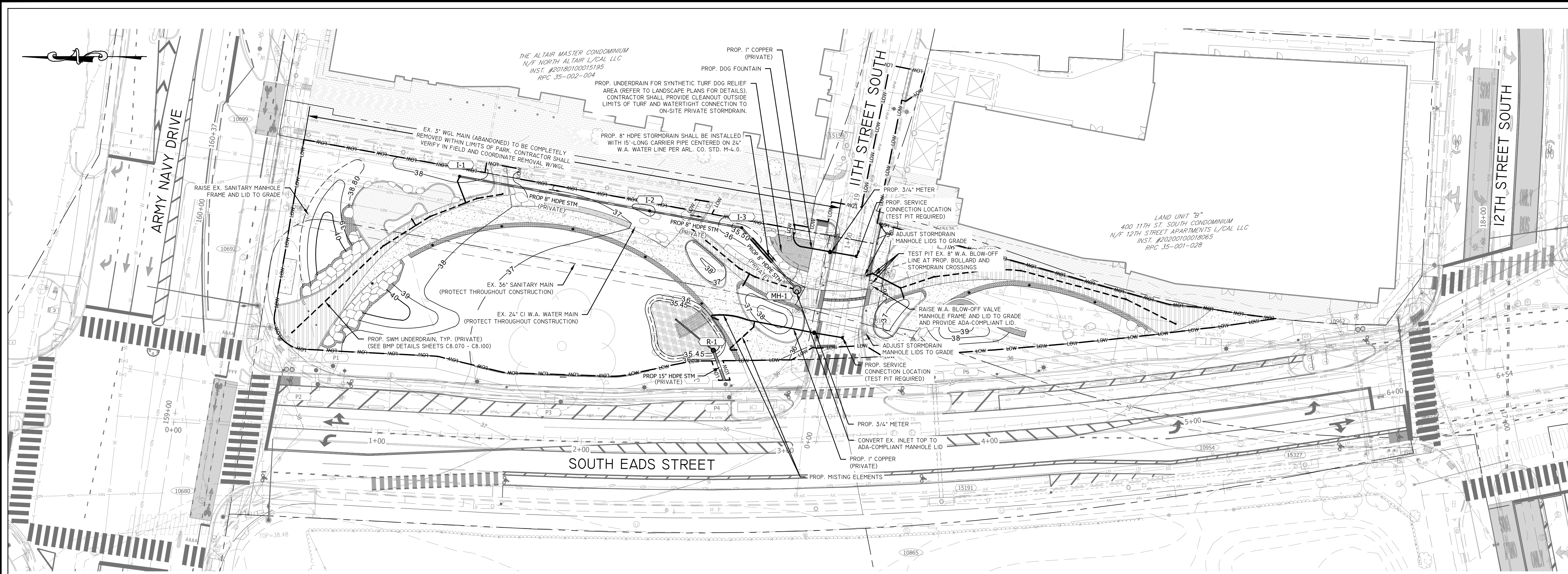
Filename: _____
 Plotted: _____

Scale: AS SHOWN
 Date: July 21, 2023



Sheet

C4.020



WET UTILITY PLAN
SCALE: 1" = 25'

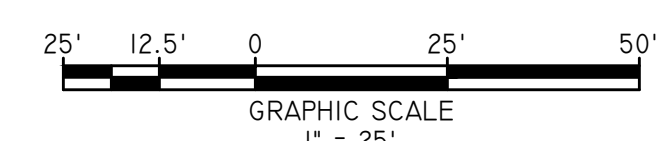
Local Review Program – Project Report -Revised June 20, 2018			
Project Name: Arlington Junction Park			
Building Type:	N/A	sq. ft.	
Office	N/A	sq. ft.	
Retail	N/A	sq. ft.	
Residential	N/A	number of units	
Hotel	N/A	number of units	
Other (type):	Park	N/A	sq. ft.
Water Main			
New pipe information (excluding Fireline length)			
Length of water main by size	Size:	Length:	
	Size:	Length:	
New Fire Hydrants	Number:		
Blow-offs	Number:		
Abandoned pipe and appurtenance information			
Length of water main by size	Size:	Length:	
	Size:	Length:	
Fire Hydrants	Number:		
Blow-offs	Number:		
Water Meters and Connections			
Residential (sf)	Number:	Size:	
Multi-family	Number:	Size:	
Commercial	Number:	Size:	
Institutional	Number:	Size:	3/4"
Industrial	Number:	Size:	
Irrigation	Number:	Size:	
Fireline (Connections)	Number:	Size:	
Other (type):	Number:	Size:	
Sanitary Sewer Main			
New pipe information			
Length of sanitary sewer by size	Size:	Length:	
Number of MHs	Number:		
Abandoned pipe information			
Length of sanitary sewer by size	Size:	Length:	
Number of MHs	Number:		
Interceptor Information			
Type:	Grease	Sand/oil:	
		Both:	
Location:	Inside:	Outside:	
Size:	Size:		
New Bldg:	Yes	No	
Retrofit:	Yes	No	

- GENERAL UTILITY NOTES:**
1. LOCATION OF ALL UTILITIES SHOWN ARE APPROXIMATE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY AND DETERMINE THE EXACT LOCATION AND DEPTH OF ALL UTILITIES WITHIN THE LIMIT OF WORK PRIOR TO COMMENCING WORK. REPORT ANY DISCREPANCY TO THE PROJECT OFFICER. THE CONTRACTOR SHALL CONTACT MISS UTILITY AT 811 A MINIMUM OF 72 HOURS PRIOR TO ANY EXCAVATION TO DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES AND SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MAY BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL EXISTING UTILITIES.
 2. ALL NEW UTILITY AND SITE DRAINAGE SYSTEMS SHALL BE TESTED IN THE PRESENCE OF THE PROJECT OFFICER PRIOR TO THE INSTALLATION OF BACKFILL MATERIAL.
 3. FIELD VERIFY AND COORDINATE ALL PROPOSED LOCATIONS FOR EQUIPMENT, PIPE RUNS, AND SLOPES WITH EXISTING CONDITIONS PRIOR TO BEGINNING NEW WORK AS SHOWN. CONTRACTOR TO SLOPE PIPES APPROPRIATELY TO ENSURE POSITIVE DRAINAGE.
 4. THERE SHALL BE NO IMPACT ON EXISTING SEWER OR WATER LINES.

- WASHINGTON AQUEDUCT (W.A.) NOTES:**
1. LOCATION OF EXISTING WASHINGTON AQUEDUCT (W.A.) 24" WATER MAIN IS PER AVAILABLE RECORDS AND LIMITED UTILITY LOCATING WITHIN PARK PROPERTY. CONTRACTOR SHALL VERIFY LOCATION IN FIELD PRIOR TO CONSTRUCTION.
 2. THE CONTRACTOR SHALL BE REQUIRED TO NOTIFY W.A. A MINIMUM 72 HOURS IN ADVANCE TO SCHEDULE A PRE-CONSTRUCTION MEETING ON-SITE WITH THEIR PERSONNEL TO REVIEW THE PROPOSED WORK AND THE EXISTING WATER MAIN. THE CONTRACTOR MUST OPERATE WITH EXTREME CAUTION OVER EXISTING 24" WATER MAIN AND UTILIZE LOW-IMPACT MACHINERY WHEN WORKING WITHIN VICINITY OF MAIN.
 3. SHOULD ANY ISSUES ARISE WITH THE MAIN DURING CONSTRUCTION, THE CONTRACTOR MUST CONTACT W.A. IMMEDIATELY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REPAIRS TO THE MAIN DUE TO ANY DAMAGE THAT ARISES AS A RESULT OF PROPOSED CONSTRUCTION.

- ARLINGTON COUNTY W.S.S. NOTES:**
1. LOCATION OF EXISTING 36" SANITARY SEWER MAIN IS PER AVAILABLE RECORDS AND LIMITED UTILITY LOCATING WITHIN PARK PROPERTY. CONTRACTOR SHALL VERIFY LOCATION IN FIELD PRIOR TO CONSTRUCTION. LIMITED TEST PIT DATA INDICATES EXTREMELY SHALLOW BURIAL DEPTH ALONG A PORTION OF ALIGNMENT THROUGH PARK.
 2. THE CONTRACTOR SHALL BE REQUIRED TO NOTIFY W.S.S. A MINIMUM 72 HOURS IN ADVANCE TO SCHEDULE A PRE-CONSTRUCTION MEETING ON-SITE WITH THEIR PERSONNEL TO REVIEW THE PROPOSED WORK AND THE EXISTING SANITARY SEWER MAIN. THE CONTRACTOR MUST OPERATE WITH EXTREME CAUTION OVER EXISTING 36" SANITARY SEWER MAIN AND UTILIZE LOW-IMPACT MACHINERY WHEN WORKING WITHIN VICINITY OF MAIN.
 3. SHOULD ANY ISSUES ARISE WITH THE MAIN DURING CONSTRUCTION, THE CONTRACTOR MUST CONTACT W.S.S. IMMEDIATELY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REPAIRS TO THE MAIN DUE TO ANY DAMAGE THAT ARISES AS A RESULT OF PROPOSED CONSTRUCTION.

LEGEND	
---	PROPERTY LINES
---	RIGHT OF WAY
---	FIBER-ARLINGTON CO
---	ST. LIGHT-ARLINGTON CO
---	ATT
---	MCI
---	WAXN
---	VERIZON
---	JONES UTILITY
---	FIBER LITE
---	COMCAST
---	DOMINION ELEC ST. LIGHT
---	DOMINION ELEC
---	WASHINGTON GAS
---	WATER-ARL CO PUBLIC WORKS
---	WATER-WASHINGTON AQUEDUCT
---	SEWER-ARL CO PUBLIC WORKS
---	SEWER
---	STORM DRAIN CONDUIT
---	FENCE LINE
---	EDGE OF PAVEMENT
---	PROP. STORM SEWER
---	PROP. WATER LINE
---	TRAFFIC CONTROL BOX
---	TRAFFIC SIGNAL POLE
---	LIGHT POLE
---	ELECTRICAL JUNCTION BOX
---	ELECTRICAL MANHOLE
---	UTILITY POLE
---	GUY POLE
---	GAS VALVE
---	GAS MANHOLE
---	ARL. CO. FIBER HAND HOLE
---	PHONE MANHOLE
---	CABLE TELEVISION PEDESTAL
---	UNKNOWN UTILITY MANHOLE
---	TREE
---	BOLLARD
---	SIGN POST
---	WOOD POST
---	SANITARY CLEANOUT
---	SANITARY MANHOLE
---	FIRE DEPARTMENT CONNECTION
---	FIRE HYDRANT
---	WATER METER
---	WATER MANHOLE
---	WATER VALVE
---	INLETS
---	CURB INLET
---	STORM DRAIN MANHOLE



ARLINGTON COUNTY, VIRGINIA
DEPARTMENT OF ENVIRONMENTAL SERVICES

WET UTILITY PLAN
ARLINGTON JUNCTION PARK-CIVIL ENGINEERING PLAN
1051 SOUTH EADS STREET
ARLINGTON COUNTY, VA

SCALE: AS SHOWN SHEET C4.030

ARLINGTON VIRGINIA

DEPARTMENT OF PARKS AND RECREATION

Park Development Division
2100 Clarendon Boulevard, Suite 414
Arlington, VA 22201
Phone: 703.228.3332
Fax: 703.228.3328

ITB #23-DPR-ITBPW-450

#SWM 22-0224

Project Name and Location
ARLINGTON JUNCTION PARK

FINAL PLAN

1051 SOUTH EADS STREET
ARLINGTON, VIRGINIA

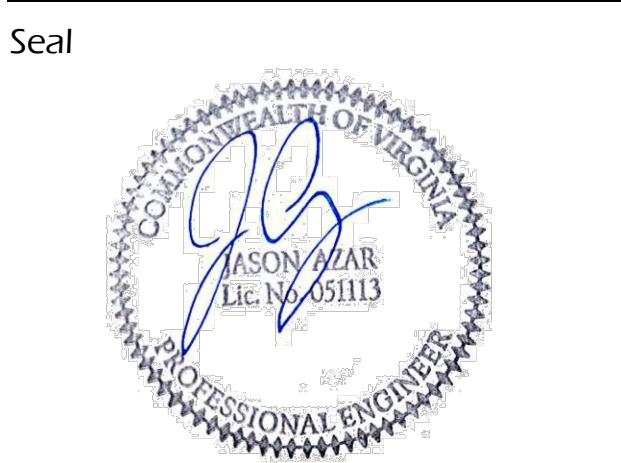
Sheet Title
WET UTILITY PLAN

Approval	Date
Design Supervisor	
Revisions	Date
CEP#2	12/21/2022
CEP#3	06/02/2023
BUILDING PERMIT	02/15/2023
REVISED BUILDING PERMIT	04/20/2023
CEP#4	07/21/2023

Designed: ME
Drawn: ME
Checked: JA

Filename:
Plotted:

Scale: AS SHOWN
Date: July 21, 2023



Sheet
C4.030

ITB #23-DPR-ITBPW-450

#SWM 22-0224

Project Name and Location

ARLINGTON JUNCTION PARK

FINAL PLAN

1051 SOUTH EADS STREET

ARLINGTON, VIRGINIA

Sheet Title

WET UTILITY PROFILES

Approval _____ Date _____

Design Supervisor _____

Revisions _____ Date _____

CEP#2 12/21/2022

CEP#3 06/02/2023

BUILDING PERMIT 02/15/2023

REVISED BUILDING PERMIT 04/20/2023

CEP#4 07/21/2023

Designed: ME

Drawn: ME

Checked: JA

Filename: _____

Plotted: _____

Scale: AS SHOWN

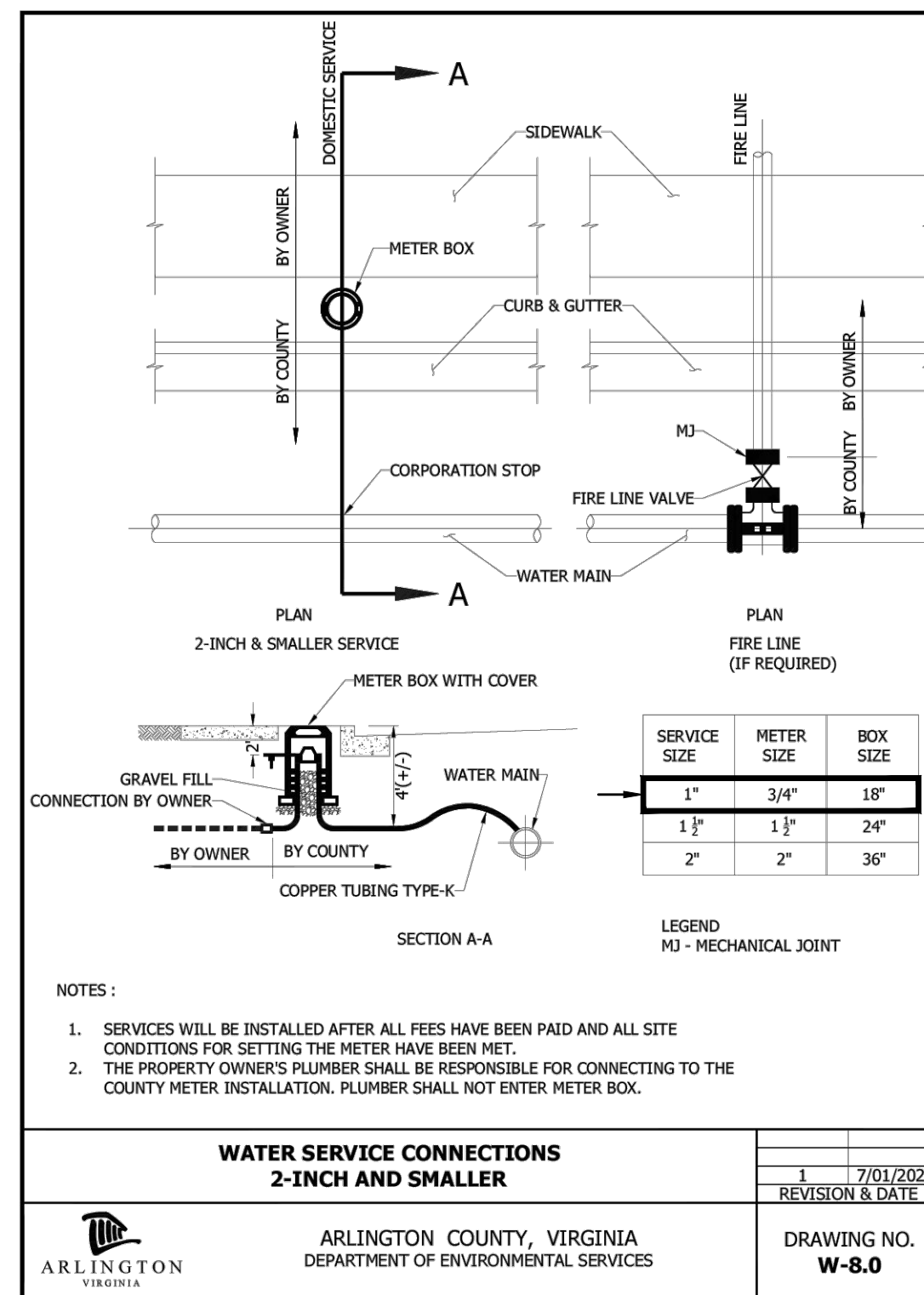
Date: July 21, 2023

Seal



Sheet

C4.040

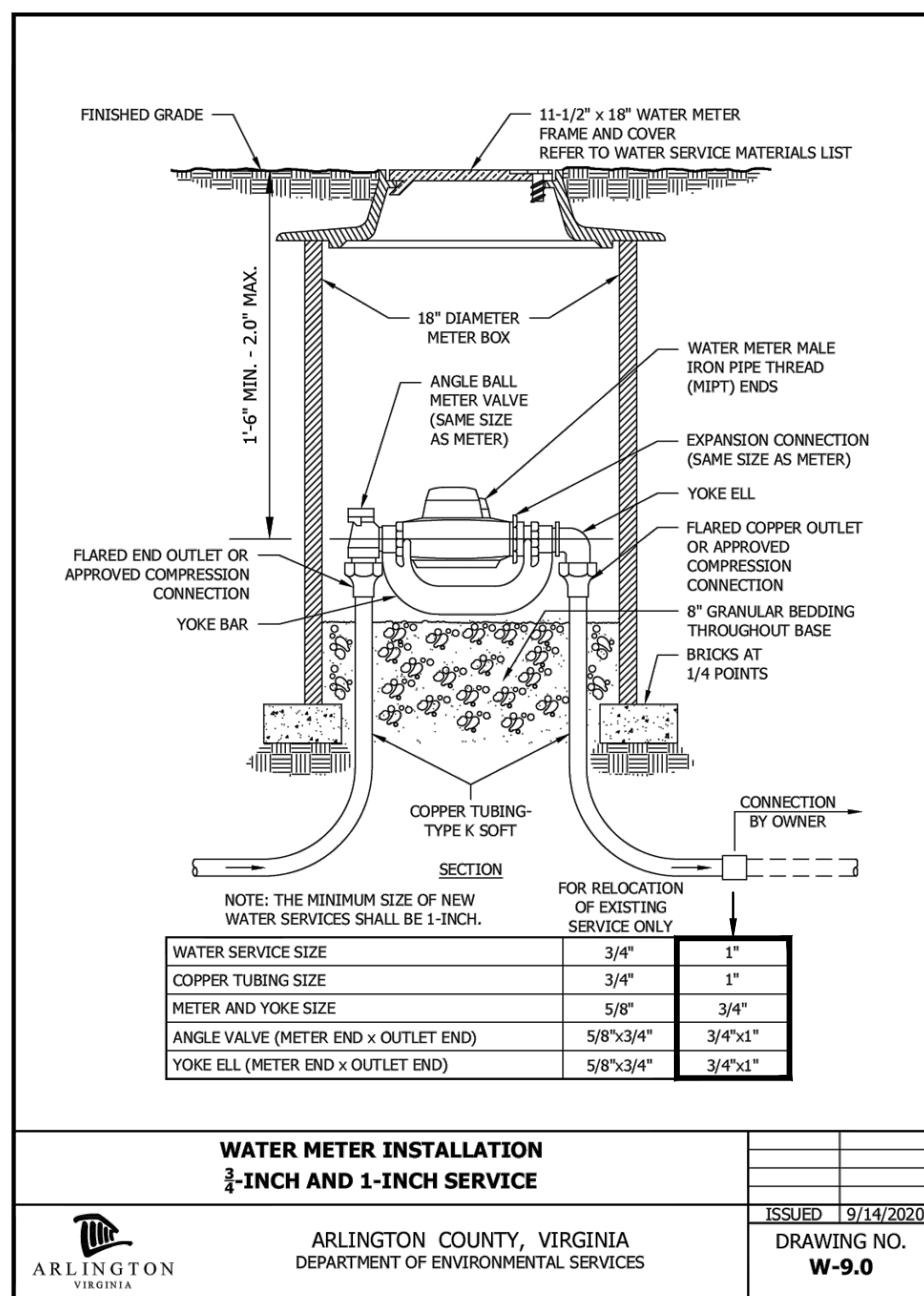
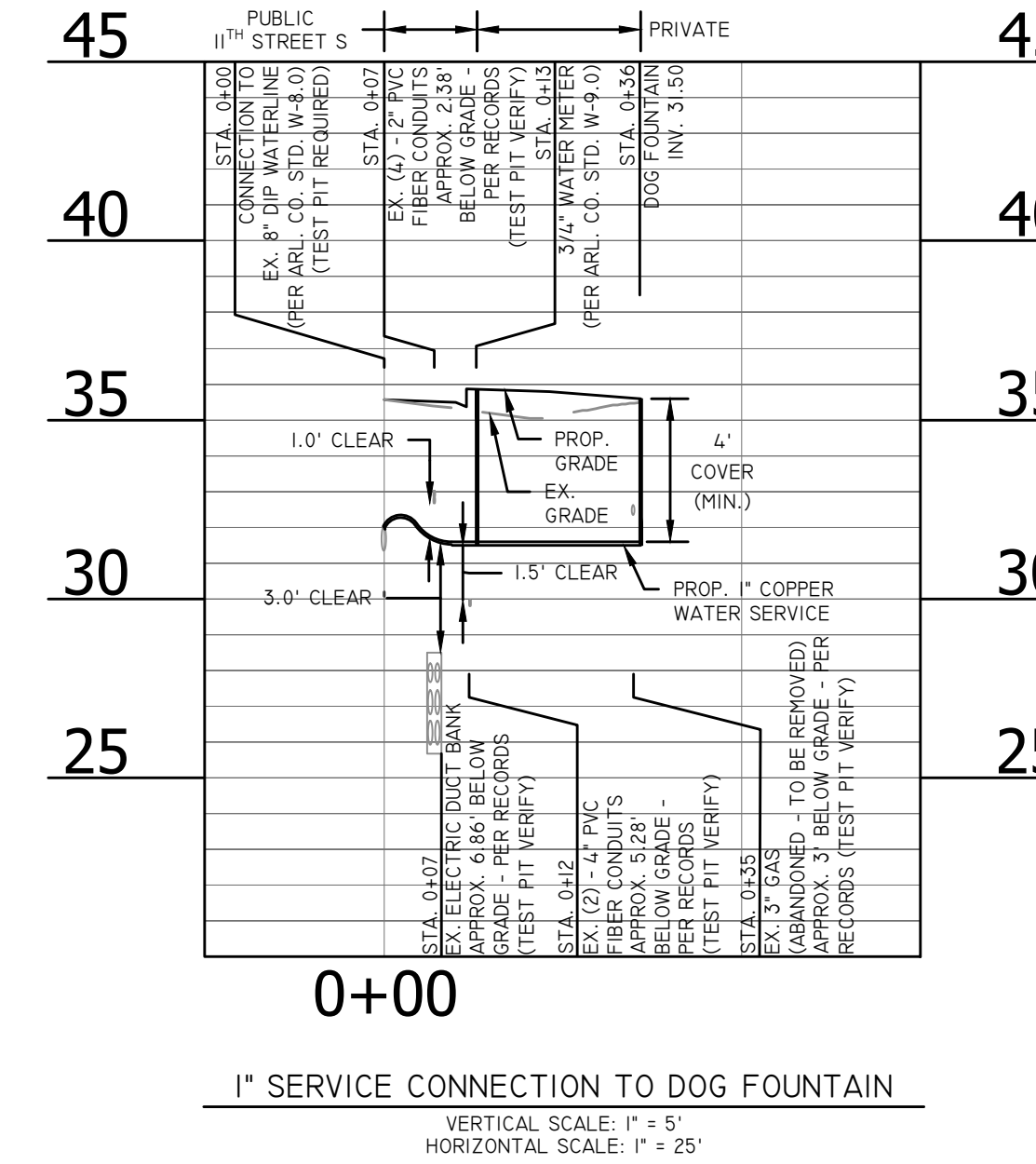
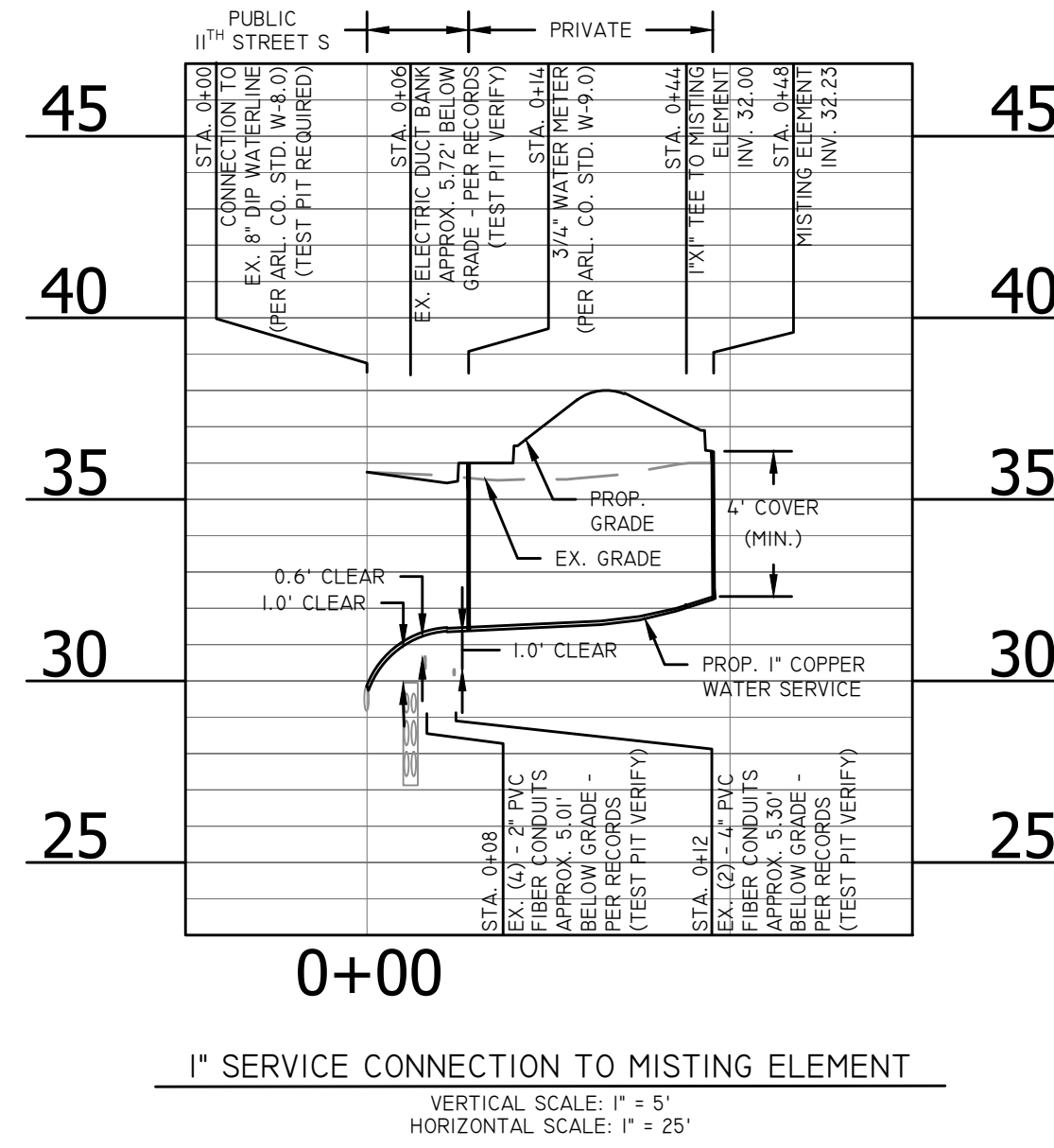


**WATER SERVICE CONNECTIONS
2-INCH AND SMALLER**

ARLINGTON COUNTY, VIRGINIA
DEPARTMENT OF ENVIRONMENTAL SERVICES

ISSUED: 7/01/2020
REVISION & DATE

DRAWING NO. **W-8.0**

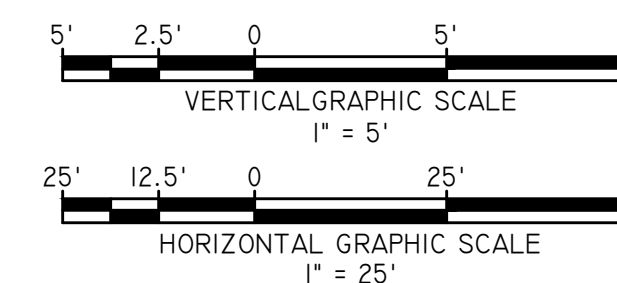


**WATER METER INSTALLATION
3/2-INCH AND 1-INCH SERVICE**

ARLINGTON COUNTY, VIRGINIA
DEPARTMENT OF ENVIRONMENTAL SERVICES

ISSUED: 9/14/2020

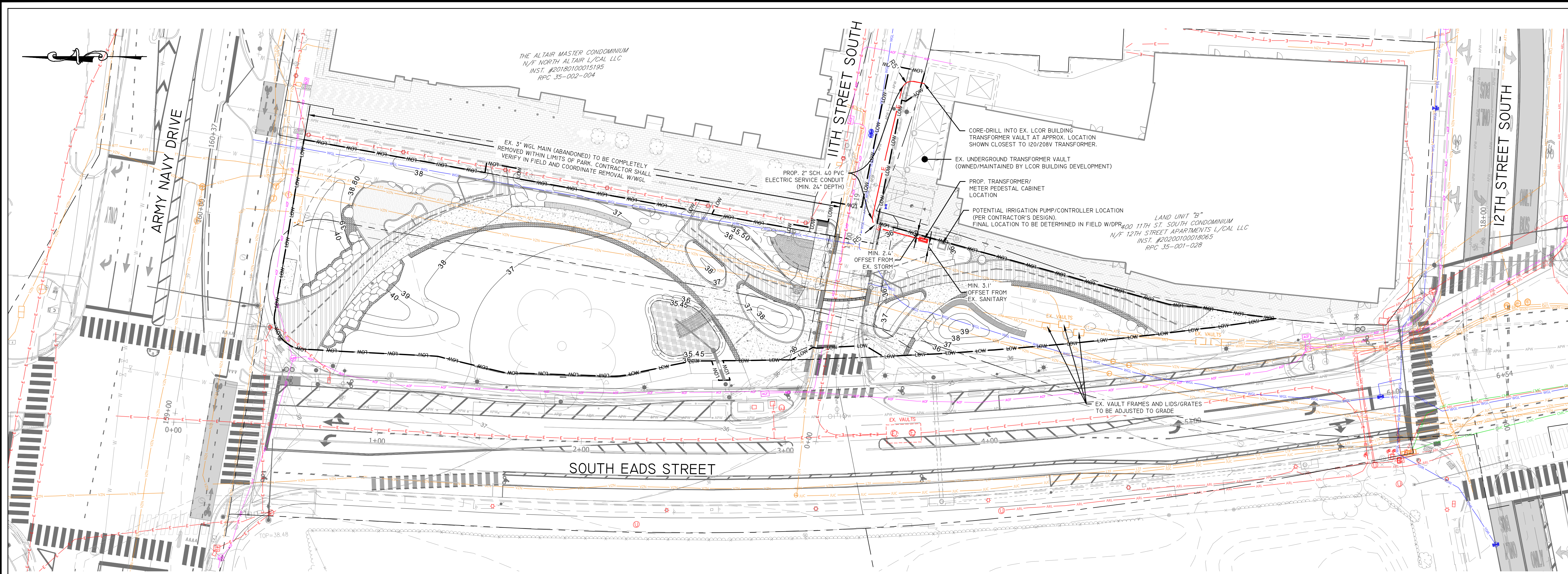
DRAWING NO. **W-9.0**



ARLINGTON COUNTY, VIRGINIA
DEPARTMENT OF ENVIRONMENTAL SERVICES

WET UTILITY PROFILES
ARLINGTON JUNCTION PARK-CIVIL ENGINEERING PLAN
1051 SOUTH EADS STREET
ARLINGTON COUNTY, VA

SCALE: AS SHOWN SHEET C4.040



DRY UTILITY PLAN
SCALE: 1" = 25'

Dominion Commitment/Conceptual Design Acceptance Memo

- Instructions:**
1. Developer: Affix this memo to each dry utility plan sheet in order to obtain the Dominion supervisor's signature.
 2. DEV: Please sign this letter ONLY if the Developer has affixed this memo to each Dry Utility Plan sheet.

11/16/22

Mrs. Nicole Blankenship
907 W Glebe Road
Alexandria, VA 22305

Re: Arlington Junction Park #10545036
0 S Eads Street, Arlington, VA

Arlington County Department of Parks and Recreation (DPR) has developed a conceptual dry utility plan (attached) for the referenced project in conjunction with the site civil engineering plan. This dry utility plan dated 11/16/22 considers the installation of a new underground utility system to accommodate the removal of the existing overhead utility wires and, utility poles that are adjacent to the site and/or permanent service to the buildings.

Dominion Energy Virginia (DEV) has completed a conceptual review and accepts the preliminary design of Arlington Junction Park #10545036 for the installation of conduit and manholes. DEV acknowledges that based on the current existing and projected load information provided, the current and existing capacity on DEV's systems, DEV's current design standards, and other information provided at the time of the DEV conceptual review, DPR dry utility plan meets the DEV requirements and commits to utilizing the underground infrastructures for installation of the DEV cable and other necessary facilities to underground the existing overhead utilities and/or provide permanent service to the buildings, if the underground infrastructure and installation meets DEV's requirements. DEV will endeavor to complete their final engineering design plan in a manner that will not result in additional trenching, conduit or any underground type work beyond what is shown on this county accepted dry utility conceptual plan. Should there be a change in any of the following; DEV reserves the right to adjust its design accordingly to assure the operational integrity of its system:

- Conceptual plans submitted
- Existing and planned loads on DEV's system
- DEV's standards of design
- Any other unforeseen changes

Any changes DEV must make to the conceptual dry utility plan will need to be coordinated with the Developer. The Developer will be responsible for submitting to the County a revision to the approved site civil plan. The County approval must be obtained before any Right-of-Way permits may be issued.

Should you have any questions regarding this plan, feel free to contact **Aaron Wohler** at (703) 228-7928.

Sincerely,
Aaron Wohler, Project Manager
Arlington County
Department of Parks and Recreation
2100 Clarendon Boulevard, Suite 414
Arlington, VA 22201
awohler@arlingtonva.us

Dominion Energy Virginia agrees with terms as stated in this letter and accepts this conceptual dry utility plan with the understanding that the plans are subject to change. DEV reserves the right to adjust the plan as needed to meet the operational integrity of its electric distribution system.

GENERAL DRY UTILITY NOTES:

1. REFER TO ELECTRICAL DRAWINGS FOR METER/ENCLOSURE DETAILS.
2. CONTRACTOR SHALL NOT ENTER OR WORK WITHIN TRANSFORMER VAULT WITHOUT DOMINION PERSONNEL PRESENT.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH LCOR DEVELOPMENT REPRESENTATIVE FOR ACCESS TO TRANSFORMER VAULT FOR PROPOSED WORK.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING BELL ENDS, CABLE SUPPORT RACKS, AND PARING VAULT WALL AS NECESSARY.
5. 2" SCH. 40 PVC CONDUIT SHALL BE MIN. 24" BELOW GRADE, MIN. 5' HORIZONTAL/1' VERTICAL SEPARATION FROM ALL COUNTY-OWNED WET UTILITIES UNLESS OTHERWISE NOTED AND APPROVED BY COUNTY AS SHOWN.

SITE LIGHTING NOTES:

1. REFER TO LANDSCAPE PLANS FOR SITE LIGHTING PLAN AND FIXTURES. REFER TO ELECTRICAL SITE PLAN FOR ON-SITE LIGHTING WIRING AND DIAGRAMS.
2. ALL PROPOSED PARK LIGHTING FOR INTERIOR OF PARK TO BE MAINTAINED AND PAID FOR BY ARLINGTON COUNTY DEPARTMENT OF PARKS AND RECREATION (DPR).

LEGEND

---	PROPERTY LINES	⊠	TRAFFIC CONTROL BOX
---	RIGHT OF WAY	⊠	TRAFFIC SIGNAL POLE
---	FIBER--ARLINGTON CO	⊠	LIGHT POLE
---	ST. LIGHT--ARLINGTON CO	⊠	ELECTRICAL JUNCTION BOX
---	AT&T	⊠	ELECTRICAL MANHOLE
---	MCI	⊠	UTILITY POLE
---	WXN FIBER	⊠	GUY POLE
---	VERIZON	⊠	GAS VALVE
---	JONES UTILITY	⊠	GAS MANHOLE
---	FIBER LITE	⊠	ARL. CO. FIBER HAND HOLE
---	COMCAST	⊠	PHONE MANHOLE
---	DOMINION ELEC ST. LIGHT	⊠	CABLE TELEVISION PEDESTAL
---	DOMINION ELEC	⊠	UNKNOWN UTILITY MANHOLE
---	PROP. DOMINION ELEC SERVICE	⊠	TREE
---	WASHINGTON GAS	⊠	BOLLARD
---	WATER--ARL CO PUBLIC WORKS	⊠	SIGN POST
---	WATER--WASHINGTON AQUEDUCT	⊠	WOOD POST
---	SEWER--ARL CO PUBLIC WORKS	⊠	SANITARY CLEANOUT
---	SEWER	⊠	SANITARY MANHOLE
---	STORM DRAIN CONDUIT	⊠	FIRE DEPARTMENT CONNECTION
---	FENCE LINE	⊠	FIRE HYDRANT
---	EDGE OF PAVEMENT	⊠	WATER METER
		⊠	WATER MANHOLE
		⊠	WATER VALVE
		⊠	INLETS
		⊠	CURB INLET
		⊠	STORM DRAIN MANHOLE



LCOR INCORPORATED

7255 WOODMONT AVE | SUITE 225 | BETHESDA, MD 20814
(301) 897-0002 | FAX (301) 897-3713 | WWW.LCOR.COM

November 8, 2022

12th Street Apartments L/Cal LLC
c/o LCOR Inc
7255 Woodmont Ave, Suite 225
Bethesda, MD 20814

Re: DEV Vault Access Authorization for Adjacent Park Work
Property: 480 11th Street S (RPC 35-001-028)

I hereby notify Dominion Energy Virginia that:

I am the owner's authorized representative and authorize Arlington County Government to obtain access to the underground transformer vault located at 480 11th St. The County and/or its representative (Contractor) is allowed to core drill into the vault and install an electrical service line to the transformer / new meter pedestal, including all related appurtenances, as necessary. The County and/or its representative will perform any repairs to waterproofing of the vault and/or Sage building required resulting from this new vault connection.

The County will coordinate access with LCOR and Dominion Energy prior to installation. Dominion personnel will be present in the vault during the installation by the Contractor.

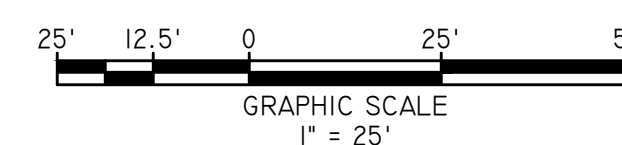
Sincerely,

Digitally signed by Britton Carr
Date: 2022.11.08 11:43:21-05'00'

Britton Carr
Sr. Project Manager
12th Street Apartments L/Cal LLC
M - 240-517-2531
E - bcarr@lcor.com

Digitally signed by Greg King
Date: 2023.01.06 16:37:34 -05'00'

DEV Project Number:



DEPARTMENT OF PARKS AND RECREATION

Park Development Division
2100 Clarendon Boulevard, Suite 414
Arlington, VA 22201
Phone: 703.228.3332
Fax: 703.228.3328

ITB #23-DPR-ITBPW-450

#SWM 22-0224

Project Name and Location

ARLINGTON JUNCTION PARK

FINAL PLAN

1051 SOUTH EADS STREET

ARLINGTON, VIRGINIA

Sheet Title

DRY UTILITY PLAN

Approval Date

Design Supervisor

Revisions Date

CEP#2 12/21/2022

CEP#3 06/02/2023

BUILDING PERMIT 02/15/2023

REVISED BUILDING PERMIT 04/20/2023

CEP#4 07/21/2023

Designed: ME

Drawn: ME

Checked: JA

Filename:

Plotted:

Scale: AS SHOWN

Date: July 21, 2023

Seal



Sheet

C4.050

ITB #23-DPR-ITBPW-450

#SWM 22-0224

Project Name and Location

ARLINGTON JUNCTION PARK

FINAL PLAN

1051 SOUTH EADS STREET

ARLINGTON, VIRGINIA

Sheet Title

DRY UTILITY PROFILE

Approval Date

Design Supervisor

Revisions Date

CEP#2 12/21/2022

CEP#3 06/02/2023

BUILDING PERMIT 02/15/2023

REVISED BUILDING PERMIT 04/20/2023

CEP#4 07/21/2023

Designed: ME

Drawn: ME

Checked: JA

Filename:

Plotted:

Scale: AS SHOWN

Date: July 21, 2023

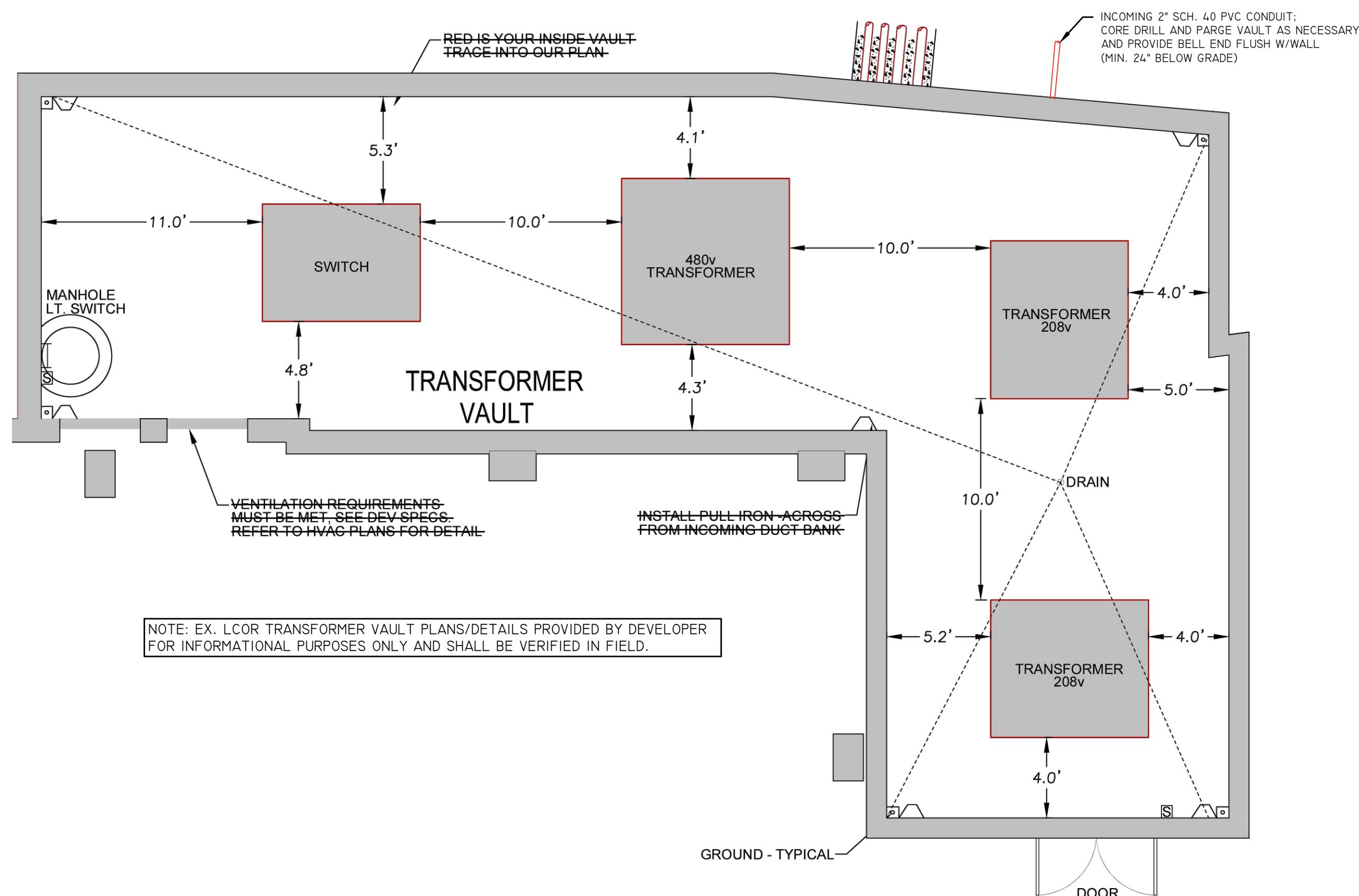
Seal



Sheet

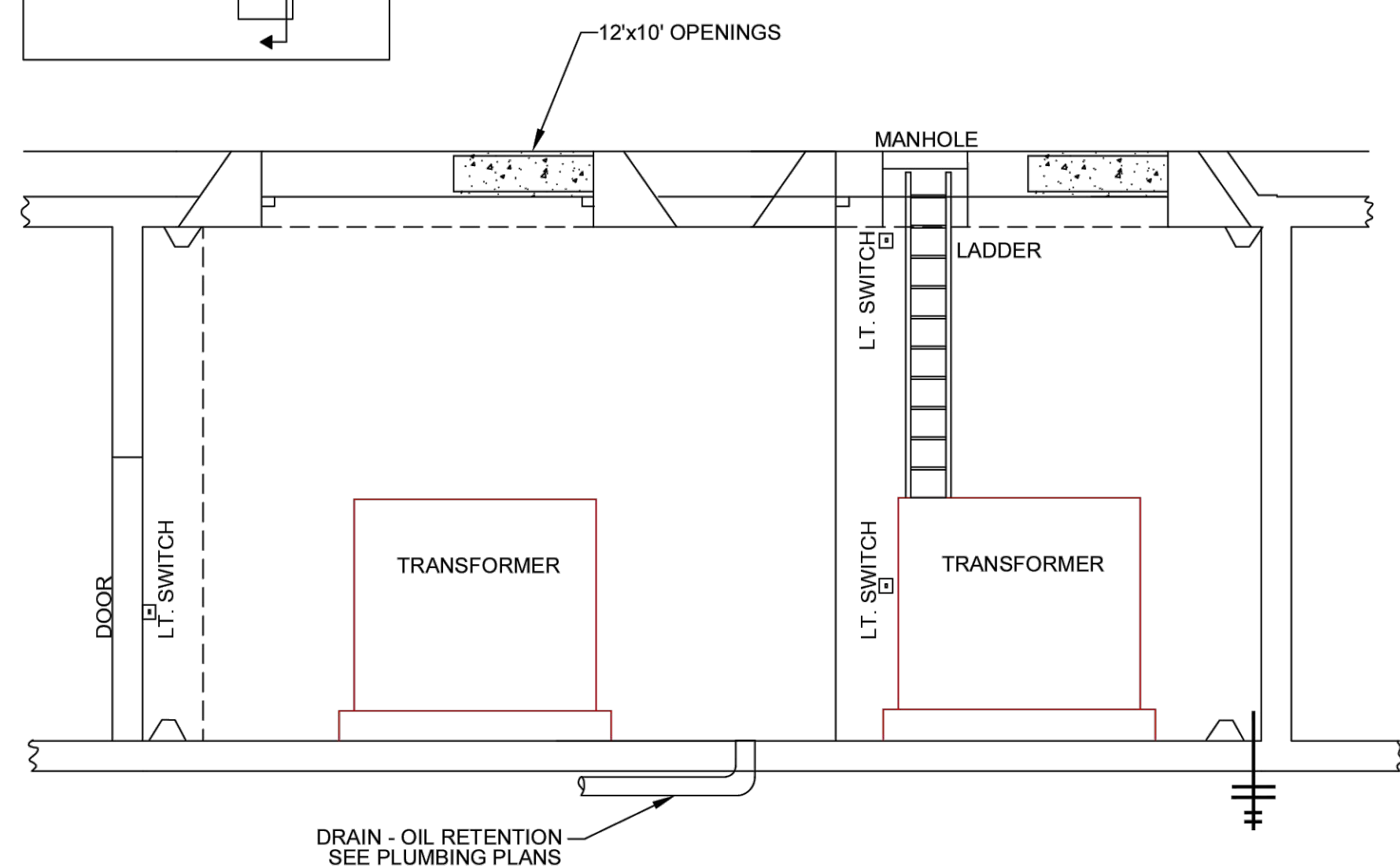
C4.060

TOP VIEW SHOWING TRANSFORMER LOCATIONS



NOTE: EX. L.COR TRANSFORMER VAULT PLANS/DETAILS PROVIDED BY DEVELOPER FOR INFORMATIONAL PURPOSES ONLY AND SHALL BE VERIFIED IN FIELD.

SIDE VIEW LOOKING WEST



EX. TRANSFORMER VAULT DETAILS

SCALE: N.T.S.

GENERAL DRY UTILITY NOTES:

- REFER TO ELECTRICAL DRAWINGS FOR METER/ENCLOSURE DETAILS.
- CONTRACTOR SHALL NOT ENTER OR WORK WITHIN TRANSFORMER VAULT WITHOUT DOMINION PERSONNEL PRESENT.
- CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH L.COR DEVELOPMENT REPRESENTATIVE FOR ACCESS TO TRANSFORMER VAULT FOR PROPOSED WORK.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING BELL ENDS, CABLE SUPPORT RACKS, AND PARGING VAULT WALL AS NECESSARY.
- 2" SCH. 40 PVC CONDUIT SHALL BE MIN. 24" BELOW GRADE; MIN. 5' HORIZONTAL/1' VERTICAL SEPARATION FROM ALL COUNTY-OWNED WET UTILITIES UNLESS OTHERWISE NOTED AND APPROVED BY COUNTY AS SHOWN.

Dominion Commitment/Conceptual Design Acceptance Memo

Instructions:

- Developer: Affix this memo to each dry utility plan sheet in order to obtain the Dominion supervisor's signature.
- DEV: Please sign this letter ONLY if the Developer has affixed this memo to each Dry Utility Plan sheet.

11/16/22

Mrs. Nicole Blankenship
907 W Glebe Road
Alexandria, VA 22305

Re: Arlington Junction Park #10545036
0 S Eads Street, Arlington, VA

Arlington County Department of Parks and Recreation (DPR) has developed a conceptual dry utility plan (attached) for the referenced project in conjunction with the site civil engineering plan. This dry utility plan dated 11/16/22 considers the installation of a new underground utility system to accommodate the removal of the existing overhead utility wires and, utility poles that are adjacent to the site and/or permanent service to the buildings.

Dominion Energy Virginia (DEV) has completed a conceptual review and accepts the preliminary design of Arlington Junction Park #10545036 for the installation of conduit and manholes. DEV acknowledges that based on the current existing and projected load information provided, the current and existing capacity on DEV's systems, DEV's current design standards, and other information provided at the time of the DEV conceptual review, DPR dry utility plan meets the DEV requirements and commits to utilizing the underground infrastructures for installation of the DEV cable and other necessary facilities to underground the existing overhead utilities and/or provide permanent service to the buildings, if the underground infrastructure and installation meets DEV's requirements. DEV will endeavor to complete their final engineering design plan in a manner that will not result in additional trenching, conduit or any underground type work beyond what is shown on this county accepted dry utility conceptual plan. Should there be a change in any of the following; DEV reserves the right to adjust its design accordingly to assure the operational integrity of its system:

- Conceptual plans submitted
- Existing and planned loads on DEV's system
- DEV's standards of design
- Any other unforeseen changes

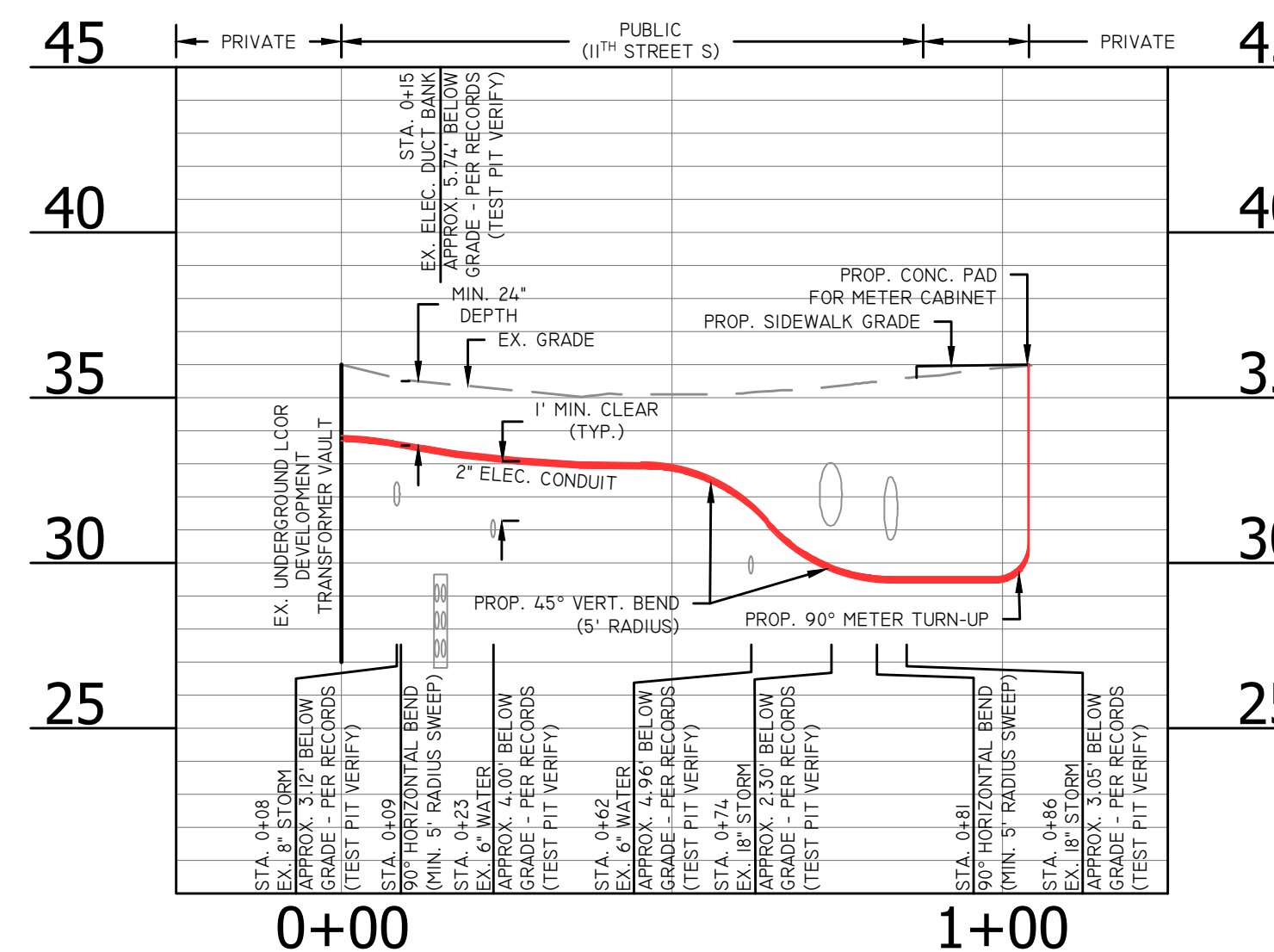
Any changes DEV must make to the conceptual dry utility plan will need to be coordinated with the Developer. The Developer will be responsible for submitting to the County a revision to the approved site civil plan. The County approval must be obtained before any Right-of-Way permits may be issued.

Should you have any questions regarding this plan, feel free to contact **Aaron Wohler** at (703) 228-7928.

Sincerely,
Aaron Wohler, Project Manager
Arlington County
Department of Parks and Recreation
2100 Clarendon Boulevard, Suite 414
Arlington, VA 22201
awohler@arlingtonva.us

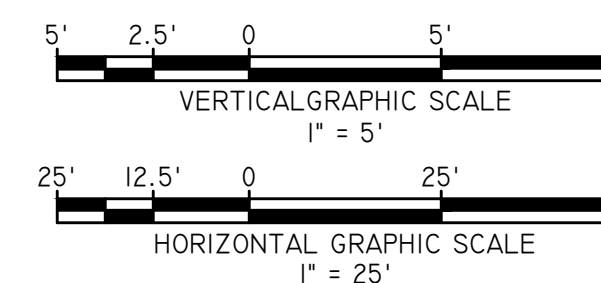
Dominion Energy Virginia agrees with terms as stated in this letter and accepts this conceptual dry utility plan with the understanding that the plans are subject to change. DEV reserves the right to adjust the plan as needed to meet the operational integrity of its electric distribution system.

Digitally signed by Greg King
Date: 2023.01.06 16:38:30
-05'00'
DEV Project Number: _____



PROP. 2" ELECTRIC CONDUIT TO PARK

VERTICAL SCALE: 1" = 5'
HORIZONTAL SCALE: 1" = 25'



ARLINGTON COUNTY, VIRGINIA DEPARTMENT OF ENVIRONMENTAL SERVICES	
DRY UTILITY PROFILE ARLINGTON JUNCTION PARK-CIVIL ENGINEERING PLAN 1051 SOUTH EADS STREET ARLINGTON COUNTY, VA	
SCALE: AS SHOWN	SHEET C4.060

Construction Inspection Checklist: Bioretention



Address/ Location: _____ Building Permit #: _____
 LDA Permit #: _____ SWM#: _____
 Contractor: _____ Telephone: _____
 Certifying Professional*: _____ Telephone: _____
 Date Started: _____ Final Inspection Date: _____

*Certifying professional must be a licensed Professional Engineer (PE), Landscape Architect (LA), or Land Surveyor (LS).

The following checklist provides a basic outline of the anticipated items for the construction inspection of bioretention facilities. This checklist does not necessarily distinguish between all the design variations and differences in construction between the family of practices. Inspectors should review the plans carefully, and adjust these items and the timing of inspection verification as needed to ensure the intent of the design is met. The standard for design of this practice is based on Virginia Stormwater BMP Clearinghouse and Arlington County Stormwater Guidance Manual.

All items should be checked when completed. **Items labeled "Certification of..." must be crossed off, dated and initialed by certifying inspector.**

PRE-CONSTRUCTION MEETING	DATE
<input type="checkbox"/> Identify the tentative schedule for construction and verify the requirements and schedule for interim inspections.	
<input type="checkbox"/> All pervious areas of the contributing drainage areas have been adequately stabilized with a thick layer of vegetation or erosion control measures are still in place and stormwater has been diverted around the area.	
<input type="checkbox"/> Area of bioretention practice has not been impacted during construction.	
<input type="checkbox"/> Conduct a pre-construction meeting with the contractor designated to install the bioretention, the person completing this checklist, and the County DES Stormwater Specialist inspector (schedule via stormwaterreview@arlingtonva.us).	

EXCAVATION	DATE
<input type="checkbox"/> Area of bioretention excavation is marked and the size and location conforms to plan.	
<input type="checkbox"/> If the excavation area has been used as a sediment trap, verify that the bottom elevation of the proposed stone reservoir is lower than the bottom elevation of the existing trap.	
<input type="checkbox"/> For Level 2 bioretention, ensure the bottom of the excavation is scarified prior to placement of stone.	
<input type="checkbox"/> Subgrade surface is free of rocks and roots, and large voids. Any voids should be refilled with the base aggregate to create a level surface for the placement of aggregates and underdrain (if required).	
<input type="checkbox"/> No groundwater seepage or standing water is present. Any standing water is dewatered to an acceptable dewatering device.	
<input type="checkbox"/> Excavation of the bioretention practice has achieved proper grades and the required geometry and elevations without compacting the bottom of the excavation. Constructed dimensions: _____	
<input type="checkbox"/> Sides of excavation covered with geotextile; no tears, holes, or excessive wrinkles are present.	

Bioretention | March 2020

Construction Inspection Checklist: Permeable Pavement



Address/ Location: _____ Building Permit #: _____
 LDA Permit #: _____ SWM#: _____
 Contractor: _____ Telephone: _____
Installer / Contractor's Certification (Required)
 Permeable Interlocking Pavers: Name of ICPI Certified Installer or PICP Specialist: _____
 Pervious Concrete: NRMCA Installer or Craftsman Certification Number: _____
 Certifying Professional*: _____ Telephone: _____
 Date Started: _____ Final Inspection Date: _____

*Certifying professional must be a licensed Professional Engineer (PE), Landscape Architect (LA), or Land Surveyor (LS).

The following checklist provides a basic outline of the anticipated items for the construction inspection of permeable pavement. This checklist does not necessarily differentiate between the types of pavement materials and the different construction requirements. Inspectors should review the plans carefully, and adjust these items and the timing of inspection verification as needed to ensure the intent of the design is met. The standard for design of this practice is based on Virginia Stormwater BMP Clearinghouse and Arlington County Stormwater Guidance Manual.

All items should be crossed off when completed. **Items labeled "Certification of..." must be crossed off, dated and initialed by the certifying inspector.**

PRE-CONSTRUCTION MEETING	DATE
<input type="checkbox"/> Walk through site with builder/contractor/subcontractor to review the SWPPP (erosion and sediment control plan, the stormwater management plan, and the Pollution Prevention plan)	
<input type="checkbox"/> Determine when permeable pavement is built in project construction sequence; before or after building construction and determine measures for protection and surface cleaning.	
<input type="checkbox"/> Identify the tentative schedule for construction, verify the certification of the installer (ICPI for permeable interlocking pavers or NRMCA for pervious concrete) and requirements and schedule for interim inspections.	
<input type="checkbox"/> Storage locations for aggregate material have been identified (hard surface or on geotextile).	
<input type="checkbox"/> Conduct a pre-construction meeting with the contractor designated to install the permeable pavement, the person completing this checklist, and the County DES Stormwater Specialist inspector (schedule via stormwaterreview@arlingtonva.us).	

SEDIMENT MANAGEMENT	DATE
<input type="checkbox"/> Access routes for delivery and construction vehicles identified.	
<input type="checkbox"/> Vehicle tire/track washing station location/maintenance (if specified in the erosion and sediment control plan/SWPPP).	
<input type="checkbox"/> Contributing drainage areas are stabilized and are not eroding.	

EXCAVATION	DATE
<input type="checkbox"/> Excavated area marked with paint and/or stakes.	
<input type="checkbox"/> Excavation size and location conforms to plan.	

Permeable Pavement | March 2020

CERTIFICATION OF EXCAVATION INSPECTION	DATE
<input type="checkbox"/> Inspector certifies the successful completion of the excavation steps listed above. Photos required include: o Excavated area prior to installation of stone, including measurements (L x W x D); o Non-woven geotextile fabric installed on sides of excavated subgrade only. Material delivery ticket include: o Geotextile installed on sides	

FILTER LAYER, UNDERDRAIN, AND STONE RESERVOIR PLACEMENT	DATE
<input type="checkbox"/> All aggregates conform to specifications as certified by quarry.	
<input type="checkbox"/> Underdrain size and perforations meet the specifications (if applicable).	
<input type="checkbox"/> If the underdrain is directly tied into the public storm sewer system, the connection has been witnessed by DES inspector.	
<input type="checkbox"/> For Level 2 installations: placement of filter layer and initial lift of stone reservoir layer aggregates with underdrain or infiltration sump, spread (not dumped) to avoid aggregate segregation	
<input type="checkbox"/> Placement of underdrain, observation wells, and underdrain fittings are in accordance with the approved plans.	
<input type="checkbox"/> Elevations of underdrain and outlet structure are in accordance with approved plans, or as adjusted to meet field conditions and denoted in Comments section.	
<input type="checkbox"/> Placement of remaining lift of stone reservoir layer as needed to achieve the required reservoir depth.	

CERTIFICATION OF FILTER LAYER AND UNDERDRAIN PLACEMENT INSPECTION	DATE
<input type="checkbox"/> Inspector certifies the successful completion of the filter layer and underdrain placement steps listed above. Photos and material delivery tickets for these items are attached. Photos required include: o Perforated underdrain pipe (if applicable) with a solid vertical overflow pipe; o Depth of #57 stone; o Depth of choker stone (pea gravel or #8); o Underdrain connection to public storm sewer system (if applicable). Material delivery tickets required include: o #7 stone; o Choker stone (pea gravel or #8).	

BIORETENTION SOIL MEDIA PLACEMENT	DATE
<input type="checkbox"/> Soil media is certified by supplier or contractor as meeting the project specifications and comes from an approved soil media vendor.	
<input type="checkbox"/> Soil media is placed in 12-inch lifts to the design top elevation of the bioretention area, and lifts have been lightly watered. Elevation has been verified after settlement (2 to 4 days after initial placement).	
<input type="checkbox"/> Side slopes of ponding area are feathered back at the required slope (no steeper than 3H:1V).	
<input type="checkbox"/> Certification of Soil Media Placement Inspection: Inspector certifies the successful completion of the soil media steps listed above and any necessary photos are attached. Photo required of a measurement of the soil media installed. Material delivery ticket required from an approved soil media vendor.	

Bioretention | March 2020

<input type="checkbox"/> Runoff is diverted around the excavation area to a stabilized conveyance.	
<input type="checkbox"/> If excavation is used as a sediment trap, verify that the bottom elevation of the proposed stone reservoir is lower than the bottom elevation of the existing trap.	
<input type="checkbox"/> Subgrade surface is free of rocks and roots, and large voids. Any voids should be refilled with the base aggregate to create a level surface for the placement of aggregates and underdrain (if required).	
<input type="checkbox"/> For Level 2 permeable pavement, ensure the bottom of the excavation is scarified prior to placement of stone.	
<input type="checkbox"/> No groundwater seepage or standing water is present. Any standing water is dewatered to an acceptable dewatering device.	
<input type="checkbox"/> The excavation has achieved the proper elevations and grade (0% slope) as noted on the approved plans.	
<input type="checkbox"/> Certification of Excavation Inspection: Inspector certifies the successful completion of the excavation steps listed above. For Level 2, field infiltration test results at excavation bottom: _____ Photos required include excavated subgrade prior to covering with fabric and stone, and include measurement from subgrade to reference point (i.e., top of edge restraint, top of apron, top of garage entrance, top of flow barriers and flow barrier excavation cuts, etc.).	

FILTER LAYER, UNDERDRAIN, STONE RESERVOIR, AND BEDDING LAYER PLACEMENT	DATE
<input type="checkbox"/> All aggregates, including, as required, the filter layer (choker stone & sand or geotextile), the reservoir layer, and bedding layer conform to specifications as certified by quarry.	
<input type="checkbox"/> Underdrain size and perforations meet the specifications (if applicable).	
<input type="checkbox"/> Placement of filter layer and initial layer of reservoir layer aggregates (approximately 2 inches) spread (not dumped) to avoid aggregate segregation.	
<input type="checkbox"/> Placement of underdrain, observation wells, and underdrain fittings in accordance with the approved plans.	
<input type="checkbox"/> Concrete curbs or plastic/metal edge restraints are installed.	
<input type="checkbox"/> Sides of excavation covered with geotextile, prior to placing stone reservoir aggregate; no tears or holes, or excessive wrinkles are present.	
<input type="checkbox"/> Flow barriers are properly installed (if applicable).	
<input type="checkbox"/> Stone reservoir layer and bedding layer is properly installed.	

CERTIFICATION OF FILTER LAYER, UNDERDRAIN, STONE RESERVOIR AND BEDDING LAYER INSPECTION	DATE
<input type="checkbox"/> Inspector certifies the successful completion of the filter layer, underdrain, stone reservoir and bedding layer placement steps listed above. Photos and material delivery tickets for these items are attached. Photos required include: o Non-woven geotextile fabric installed on bottom and sides of excavated subgrade; o Perforated observation well prior to installation of stone; o Perforated underdrain (if applicable) and connection to storm sewer or dry well; o Depth of #2 or #3 stone installed (if applicable); o Edge restraints; o Depth of #57 stone installed; o Depth of #8 stone installed. Photos required of flow barrier (if applicable): o 12" height of berm; o 12" height of cut for flow barrier; o Impermeable liner.	

Permeable Pavement | March 2020

PRETREATMENT AND PLANT INSTALLATION	DATE
<input type="checkbox"/> Riser, overflow weir, or other outflow structure is set to the proper elevation, receive the proper compaction and are functional.	
<input type="checkbox"/> Placement of energy dissipaters and pretreatment practices (forebays, gravel diaphragms, etc.) are installed in accordance with the approved plans.	
<input type="checkbox"/> Appropriate number and spacing of plants are installed in accordance with the approved plans. Microbioretentions use the appropriate number of plants from VA DEQ Table 9.4, bioretentions follow the approved landscape plan.	
<input type="checkbox"/> Ponding depth verification after plant and mulch placement.	

CERTIFICATION OF PRETREATMENT AND PLANT INSTALLATION	DATE
<input type="checkbox"/> Inspector certifies the successful completion of any pretreatment measures, plants and mulch as listed above. Photos/Elevations required for this step include: o Overall photos of showing mulch and plants installed; o Location of inflow and appropriate energy dissipation; o Microbioretention with sheetflow as the inflow: string line measurement showing the swale. o Bioretention with sheetflow as the inflow: survey of the swale. o Any pretreatment measures required per the approved plans; o Distance from the top of the mulch to the top of the overflow (either pipe or berm). o Microbioretention: string line measurement showing the surface of the microbioretention is level and has the appropriate ponding depth over the entire surface. o Bioretention: as-built survey that captures the top of mulch and top of overflow to achieve the proper ponding depth. Material delivery tickets required for this step include: o Approved plants listing number and species; o Shredded hardwood mulch.	

BIORETENTION TESTING	DATE
<input type="checkbox"/> A bioretention that uses infiltration to drain (i.e., it has no underdrain) must be tested for infiltration rate upon completion and must function as designed.	

COMMENTS (CLARIFICATION, DEVIATIONS, ETC.)	DATE

All items checked above have been inspected by me (or by an individual under my responsible charge) and have been completed to my satisfaction and meet the approved plans (or deviations are noted here).

Signature: _____ Date: _____

Certifying Professional's License Number (or Seal): _____

- See attached sealed final location survey with the installed stormwater management facilities appropriately labeled and certification letter

Bioretention | March 2020

<input type="checkbox"/> Distance between flow barriers. Material delivery tickets required include: o Choker stone & sand or geotextile installed at subbase; o Geotextile installed along sides; o Impermeable liner on gravel flow berms (if applicable); o #2 or #3 stone (if applicable), #57 stone, #8 stone.	
PERMEABLE PAVERS OR PERVIOUS CONCRETE INSTALLATION	DATE
<input type="checkbox"/> Permeable paver surface is installed.	
<input type="checkbox"/> If pavers are used, the joints are full of #8 or #9 stone.	
<input type="checkbox"/> Certification of Pavement Installation: Contractor and/or manufacturer certifies that permeable pavement has been placed in accordance with manufacturers specifications (ICPI Tech Spec #18 for interlocking concrete pavers or ACI#522.1-13 for pervious concrete).	
<input type="checkbox"/> Photos required include: o Overall of completed installation; o Observation well with proper cap installed. For Level 2, completed facility observed infiltration rate: _____ Material delivery tickets required for the pavers or concrete installed.	
<input type="checkbox"/> The permeable pavement is protected until the remainder of the site is stabilized.	

COMMENTS (CLARIFICATION, DEVIATIONS, ETC.)	DATE

All items checked above have been inspected by me (or by an individual under my responsible charge) and have been completed to my satisfaction and meet the approved plans (or deviations are noted here).

Signature: _____ Date: _____

Certifying Professional's License Number (or Seal): _____

- See attached sealed final location survey with the installed stormwater management facilities appropriately labeled and certification letter

Permeable Pavement | March 2020

WATER QUALITY NARRATIVE

THE TOTAL SITE AREA FOR ANALYSIS OF STORMWATER MANAGEMENT AND BEST MANAGEMENT (BMP) PRACTICES IS 0.683 ACRES. THE PROPOSED PARK LAYOUT INCREASES THE IMPERVIOUS AREA IN THE PARK TO 0.219 ACRES AND REDUCES THE MANAGED TURF AREAS TO 0.464 ACRES. THIS RESULTS IN A REQUIRED PHOSPHORUS REDUCTION OF AROUND 0.374 POUNDS PER YEAR. THE MANY UNDERGROUND UTILITIES RUNNING THROUGH THE PARK LIMIT THE OPTIONS AND LOCATIONS FOR BMP'S TO MEET THE PHOSPHORUS REDUCTION REQUIREMENT. IT IS PROPOSED TO BE ACHIEVED USING PERMEABLE PAVEMENT IN THE PARK, AND ONE (1) MICRO-BIORETENTION BASIN (LEVEL II) ON THE NORTHERN END OF THE PARK, APPROXIMATELY 3,364 SF OF PERMEABLE PAVEMENT (LEVEL I & LEVEL II) IS PROPOSED WHICH WILL REMOVE 0.147 LBS OF PHOSPHORUS. THE MICRO-BIORETENTION BASIN (LEVEL II) WILL TREAT APPROXIMATELY 0.299 ACRES OF THE NORTHERN PORTION OF THE PARK, REMOVING 0.234 LBS OF PHOSPHORUS. THE SURFACE AREA REQUIRED FOR A FACILITY WITH 3 INCHES OF PONDING, 2 FEET OF MEDIA DEPTH, AND ONE FOOT OF GRAVEL WILL BE AROUND 670.00 SQUARE FEET.

STORMWATER MANAGEMENT NARRATIVE

THE NEW PARK AT S. EADS STREET WILL CONSIST OF THE DEVELOPMENT OF A PARCEL OF LAND INTO AN URBAN PARK. THE PARCEL IS CURRENTLY LOCATED IN A FAIRLY URBAN AREA AND IS BORDERED BY ARMY NAVY DRIVE TO THE NORTH, SOUTH EADS STREET TO THE WEST, 12TH STREET TO THE SOUTH, EXISTING RESIDENTIAL AND COMMERCIAL DEVELOPMENT TO THE EAST, AND IS BISECTED BY 11TH STREET SOUTH. THE PARK CURRENTLY CONSISTS OF SIDEWALKS ADJACENT TO THE EXISTING ROADS BORDERING THE PROPERTY, GRASSY OPEN SPACE, AND A LARGE COTTONWOOD TREE THAT IS INTENDED TO BE PRESERVED. THERE ARE MANY UNDERGROUND UTILITIES RUNNING THROUGH THE PARK. THE PROPOSED DEVELOPMENT FOR THE PARK INCORPORATES A PROMENADE, VEGETATED BERMS, OUTDOOR FITNESS AREA, LAWNS, BENCHES, A BOARDWALK AND NATURAL SPACES. THE PROJECT PROPOSES TO DISTURB APPROXIMATELY 0.683 ACRES. THERE WILL BE AN OVERALL INCREASE IN IMPERVIOUS AREA WITH THE PROPOSED IMPROVEMENTS. ONE (1) MICRO-BIORETENTION BASIN (LEVEL II) AND PERVIOUS PAVEMENT (LEVEL I & LEVEL II) ARE PROPOSED TO MANAGE STORMWATER RUNOFF FOR QUALITY AND QUANTITY.

CHANNEL AND FLOOD PROTECTION

CHANNEL AND FLOOD PROTECTION REQUIREMENTS FOR THE PROJECT HAVE BEEN MET VIA THE PROPOSED BMP FACILITIES ON-SITE AND UTILIZING THE REDUCED CURVE NUMBER FOR THE ENERGY BALANCE EQUATION AND QUANTITY ANALYSIS. SEE SHEETS C5.030 AND C5.040 FOR QUANTITY ANALYSIS CALCULATIONS FOR THE PROPOSED DEVELOPMENT.



DEPARTMENT OF PARKS AND RECREATION

Park Development Division
 2100 Clarendon Boulevard, Suite 414
 Arlington, VA 22201
 Phone: 703.228.3332
 Fax: 703.228.3328

ITB #23-DPR-ITBPW-450

#SWM 22-0224

Project Name and Location

ARLINGTON JUNCTION PARK

FINAL PLAN

1051 SOUTH EADS STREET

ARLINGTON, VIRGINIA

Sheet Title

STORMWATER MANAGEMENT NOTES

Approval _____ Date _____

Design Supervisor _____

Revisions _____ Date _____

CEP#2 _____ 12/21/2022

CEP#3 _____ 06/02/2023

BUILDING PERMIT _____ 02/15/2023

REVISED BUILDING PERMIT _____ 04/20/2023

CEP#4 _____ 07/21/2023

Designed: ME

Drawn: ME

Checked: JA

Filename: _____

Plotted: _____

Scale: AS SHOWN

Date: July 21, 2023

Seal



Sheet

C5.000

Site Information - Revised 9/19/2017																							
Project SWM #	CEP Permit #	Disturbed Area (acres)	% Pre-Impervious	% Post-Impervious	Pre-Development TP load (lb/yr)	Post-Development TP load (lb/yr)	TP load reduction achieved (lb/yr)	Pre-Development TN load (lb/yr)	Post-Development TN load (lb/yr)	TN load reduction achieved (lb/yr)	Total Site Area (acres)	Pre-Forest Area (acres)	Pre-Turf Area (acres)	Impervious Area (acres)	Post-Forest Area (acres)	Post-Turf Area (acres)	Post-Impervious Area (acres)	Pre-Runoff Volume	Post-Runoff Volume	Runoff Volume Reduction Achieved	Site Latitude (Decimal Degrees)	Site Longitude (Decimal Degrees)	Anticipated Start Date
22-0224	CEPL22-00064	0.7060	5.7	35.0	0.47	0.80	0.40	3.34	5.70	2.93	0.7060	0.0000	0.6660	0.0400	0.0000	0.4590	0.2470	742.3350	1268.3220	554.3736	38.864415	-77.054166	Fall 2023

Stormwater Management Facility Information- Revised 3/19/2019																							
Facility Type**	Description	Location	LDA Project SWM #	Building Permit #	Facility ID	BMP downstream of another BMP (in Series)?	Upstream (Primary) BMP	Chesapeake Bay Segment	Watershed	HUC6	Soils	Runoff Treated (in)	Volume Treated (ft³)	Treated Area (acres)	Forest Area (acres)	Turf Area (acres)	Impervious Area (acres)	RPC	Phosphorus Efficiency (%)	Nitrogen Efficiency (%)	Sediment Efficiency (%)	TP load removed (lbs)	TN load removed (lbs)
BIORETENTION #2	Micro-Bioretenion #1	NE Corner of 11th and S. Eads	CEPL22-00064	22-0224	22-0224A	No		POTTF_VA	Roaches Run	PL24	C/D	1.25	413.6	0.2990	0.0000	0.2430	0.0560	35.003437	90.00	90.00	79.00	0.23	1.71
PERMEABLE PAVEMENT #2	Permeable Pavers #1	NW Walkway	CEPL22-00064	22-0224	22-0224B	No		POTTF_VA	Roaches Run	PL24	C/D	1.10	124.1	0.0360	0.0000	0.0000	0.0360	35.003437	81.00	81.00	79.00	0.06	0.45
PERMEABLE PAVEMENT #1	Permeable Pavers #2	NE Walkway	CEPL22-00064	22-0224	22-0224C	No		POTTF_VA	Roaches Run	PL24	C/D	1.00	55.0	0.0160	0.0000	0.0000	0.0160	35.003437	59.00	59.00	75.00	0.02	0.14
PERMEABLE PAVEMENT #1	Permeable Pavers #3	SE Walkway	CEPL22-00064	22-0224	22-0224D	No		POTTF_VA	Roaches Run	PL24	C/D	1.00	234.5	0.0580	0.0000	0.0000	0.0580	35.003437	59.00	59.00	75.00	0.09	0.62

July 2014 (Revised April 2015). Staging spreadsheet for micro-bioretenion for compliance with Arlington County Stormwater Management Ordinance. Enter data into highlighted cells. WQV needs to > 100% for credit.

Facility name/type	Design Level	Impervious Area to Facility	Pervious Area to Facility	Total Drainage Area	Total Area	Rainfall Depth (P)	Rv	Target storage (WQV)	Ponding depth	Filter depth	Gravel depth	Filter : Gravel Depth Ratio	Gravel Sump below underdrain Required for Level 2 Designs that include an underdrain (No storage credit provided)	Top Surface Area	Bottom Surface Area (5:1 slopes)	Ponding Volume (1.00 void)	Soil Storage Volume (0.25 void)	Gravel Storage Volume (0.4 void)	Available Storage	% Water Quality Volume Captured	
Micro-Bioretenion #1	Level 2	2439	10585	13024	0.2990	1.25	0.36	483.93	3	24	12	Level 1: ≥ 1.5:1 Level 2: ≥ 2:1	(in)	(SF)	(SF)	(CF)	(CF)	(CF)	(CF)	Must be ≥ 100% (Max. 200%)	
																					162.6%

DEQ Virginia Runoff Reduction Method Re-Development Compliance Spreadsheet - Version 3.0

2011 BMP Standards and Specifications | 2013 Draft BMP Standards and Specifications

Project Name: New Park at South Eads Street
Date: 4/7/2022

Site Information
Post-Development Project (Treatment Volume and Loads)

Enter Total Disturbed Area (acres) → 0.7060
Check: 2013 Draft Stds. & Specs

Maximum reduction required: 10%
The site's net increase in impervious cover (acres) is: 0.2070
Post-Development TP Load Reduction for Site (lb/yr): 0.3385
Linear project? No
Land cover areas entered correctly? Yes
Total disturbed area entered? Yes

Pre-Development Land Cover (acres)

A Soils	B Soils	C Soils	D Soils	Totals
0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000

Post-Development Land Cover (acres)

A Soils	B Soils	C Soils	D Soils	Totals
0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.4790	0.4790
0.0000	0.0000	0.0000	0.2470	0.2470
0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000

Area Check: OK

Constants

Forest/Open Space	Managed Turf	Impervious Cover
0.25	0.15	0.41
0.00	0.15	0.41
0.00	0.15	0.41

Runoff Coefficients (Rv)

A Soils	B Soils	C Soils	D Soils
0.09	0.09	0.09	0.09
0.15	0.20	0.22	0.25
0.05	0.05	0.05	0.05

LAND COVER SUMMARY - PRE-DEVELOPMENT

Pre-Development	Listed	Adjusted
Forest/Open Space (acres)	0.0000	0.0000
Managed Turf (acres)	0.0000	0.0000
% Forest	0%	0%
Managed Turf (acres)	0.0000	0.0000
Weighted Turf (acres)	0.0000	0.0000
% Managed Turf	0%	0%
Impervious Cover (acres)	0.0000	0.0000
% Impervious	0%	0%
Total Site Area (acres)	0.7060	0.7060
Site Rv	0.287	0.361

Treatment Volume and Nutrient Load

Pre-Development	Post-Development
Final Post-Development Treatment Volume (ac-ft)	0.0291
Final Post-Development Treatment Volume (cubic feet)	1,268.320
Final Post-Development TP Load (lb/yr)	0.7969
Final Post-Development TN Load (lb/yr)	1.100
Max. Reduction Required (Below Pre-Development Load)	10%
TP Load Reduction Required for New Impervious Area (lb/yr)	0.0348
TP Load Reduction Required for New Impervious Area (lb/yr)	0.3636

Adjusted Land Cover Summary: Pre-Development land cover is assumed to be forest and open space or managed turf across proposed for new impervious cover.

Adjusted drainage is consistent with Post-Development drainage (impervious coverage of new impervious cover).

Adjusted TP load reduction requirement for new impervious cover (based on new development load rate, 0.41 lb/acre/yr).

Post-Development Requirement for Site Area

TP Load Reduction Required (lb/yr): 0.3385

Nitrogen Loads (Informational Purposes Only)

Pre-Development TN Load (lb/yr)	Post-Development TN Load (lb/yr)
3.3366	5.7008

Drainage Area A

Drainage Area A Land Cover (acres)

A Soils	B Soils	C Soils	D Soils	Totals	Land Cover Rv
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.2430	0.2430	0.2500
0.0000	0.0000	0.0000	0.0560	0.0560	0.9500
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Total Phosphorus Available for Removal in D.A. A (lb/yr): 0.2599
Post Development Treatment Volume in D.A. A (ft³): 413.6385

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
6. Bioretention (RR)													
6. Bioretention #2 or Micro-Bioretenion #2 (Spec #9)	80	0.2430	0.0560	0.0000	330.9108	82.7277	413.6385	50	0.0000	0.2596	0.2336	0.0260	

Drainage Area B

Drainage Area A Land Cover (acres)

A Soils	B Soils	C Soils	D Soils	Totals	Land Cover Rv
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0360	0.0360	0.9500
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Total Phosphorus Available for Removal in D.A. B (lb/yr): 0.0780
Post Development Treatment Volume in D.A. B (ft³): 124.1460

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
3. Permeable Pavement (RR)													
3. Permeable Pavement #2 (Spec #7)	75		0.0360		93.1095	31.0365	124.1460	25	0.0000	0.0779	0.0633	0.0146	

Drainage Area C

Drainage Area A Land Cover (acres)

A Soils	B Soils	C Soils	D Soils	Totals	Land Cover Rv
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0160	0.0160	0.9500
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Total Phosphorus Available for Removal in D.A. C (lb/yr): 0.0347
Post Development Treatment Volume in D.A. C (ft³): 55.1760

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
3. Permeable Pavement (RR)													
3. Permeable Pavement #1 (Spec #7)	45		0.0160	0.0000	24.8292	30.3468	55.1760	25	0.0000	0.0346	0.0203	0.0143	

Drainage Area D

Drainage Area A Land Cover (acres)

A Soils	B Soils	C Soils	D Soils	Totals	Land Cover Rv
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0680	0.0680	0.9500
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Total Phosphorus Available for Removal in D.A. D (lb/yr): 0.1473
Post Development Treatment Volume in D.A. D (ft³): 234.4980

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
3. Permeable Pavement (RR)													
3. Permeable Pavement #1 (Spec #7)	45		0.0680	0.0000	105.5241	128.9739	234.4980	25	0.0000	0.1472	0.0865	0.0607	



DEPARTMENT OF PARKS AND RECREATION

Park Development Division
2100 Clarendon Boulevard, Suite 414
Arlington, VA 22201
Phone: 703.228.3332
Fax: 703.228.3328

ITB #23-DPR-ITBPW-450

#SWM 22-0224

Project Name and Location

ARLINGTON JUNCTION PARK

FINAL PLAN

1051 SOUTH EADS STREET

ARLINGTON, VIRGINIA

Sheet Title

STORMWATER MANAGEMENT CALCULATIONS

Approval

Date

Design Supervisor

Revisions

Date

CEP#2 12/21/2022

CEP#3 06/02/2023

BUILDING PERMIT 02/15/2023

REVISED BUILDING PERMIT 04/20/2023

CEP#4 07/21/2023

Designed: ME

Drawn: ME

Checked: JA

Filename:

Plotted:

Scale: AS SHOWN

Date: July 21, 2023

Seal



Sheet

C5.010

Runoff Volume and Curve Number Calculations

Enter design storm rainfall depths (in):

1-year storm	2-year storm	10-year storm
2.58	3.11	4.78

Use NOAA Atlas 14 (<http://hdsc.nws.noaa.gov/hdsc/pfds/>)

***Notes (see below):**
 [1] The curve numbers and runoff volumes computed in this spreadsheet for each drainage area are limited in their applicability for determining and demonstrating compliance with water quantity requirements. See VRRM User's Guide and Documentation for additional information.
 [2] Runoff Volume (RV) for pre- and post-development drainage areas must be in volumetric units (e.g., acre-feet or cubic feet) when using the Energy Balance Equation. Runoff measured in watershed-inches and shown in the spreadsheet as RV(watershed-inch) can only be used in the Energy Balance Equation when the pre- and post-development drainage areas are equal. Otherwise RV(watershed-inch) must be multiplied by the drainage area.
 [3] Adjusted CNs are based on runoff reduction volumes as calculated in D.A. tabs. An alternative CN adjustment calculation for Vegetated Roofs is included in BMP specification No. 5.

Drainage Area Curve Numbers and Runoff Depths*

Curve numbers (CN, CNadj) and runoff depths (RV_{Developed}) are computed with and without reduction practices.

Drainage Area A		A Soils	B Soils	C Soils	D Soils	Total Area (acres):
Forest/Open Space -- undisturbed, protected forest/open space or reforested land	Area (acres) CN	0.0000 30	0.0000 55	0.0000 70	0.0000 77	0.2990
Managed Turf -- disturbed, graded for yards or other turf to be moved/managed	Area (acres) CN	0.0000 39	0.0000 61	0.0000 74	0.2430 80	
Impervious Cover	Area (acres) CN	0.0000 98	0.0000 98	0.0000 98	0.0560 98	
		CN _(D.A. A)				
		83				
		RV _{Developed (watershed-inch) with no Runoff Reduction*}				
		1.1166 1.5356 2.9758				
		RV _{Developed (watershed-inch) with Runoff Reduction*}				
		0.8117 1.2307 2.6709				
		Adjusted CN*				
		77 78 80				

*See Notes above

Drainage Area B		A Soils	B Soils	C Soils	D Soils	Total Area (acres):
Forest/Open Space -- undisturbed, protected forest/open space or reforested land	Area (acres) CN	0.0000 30	0.0000 55	0.0000 70	0.0000 77	0.0360
Managed Turf -- disturbed, graded for yards or other turf to be moved/managed	Area (acres) CN	0.0000 39	0.0000 61	0.0000 74	0.0000 80	
Impervious Cover	Area (acres) CN	0.0000 98	0.0000 98	0.0000 98	0.0360 98	
		CN _(D.A. B)				
		98				
		RV _{Developed (watershed-inch) with no Runoff Reduction*}				
		2.3503 2.8778 4.5435				
		RV _{Developed (watershed-inch) with Runoff Reduction*}				
		1.6378 2.1653 3.8310				
		Adjusted CN*				
		90 91 91				

*See Notes above

Drainage Area C		A Soils	B Soils	C Soils	D Soils	Total Area (acres):
Forest/Open Space -- undisturbed, protected forest/open space or reforested land	Area (acres) CN	0.0000 30	0.0000 55	0.0000 70	0.0000 77	0.0160
Managed Turf -- disturbed, graded for yards or other turf to be moved/managed	Area (acres) CN	0.0000 39	0.0000 61	0.0000 74	0.0000 80	
Impervious Cover	Area (acres) CN	0.0000 98	0.0000 98	0.0000 98	0.0160 98	
		CN _(D.A. C)				
		98				
		RV _{Developed (watershed-inch) with no Runoff Reduction*}				
		2.3503 2.8778 4.5435				
		RV _{Developed (watershed-inch) with Runoff Reduction*}				
		1.9228 2.4503 4.1160				
		Adjusted CN*				
		94 94 94				

*See Notes above

Drainage Area D		A Soils	B Soils	C Soils	D Soils	Total Area (acres):
Forest/Open Space -- undisturbed, protected forest/open space or reforested land	Area (acres) CN	0.0000 30	0.0000 55	0.0000 70	0.0000 77	0.0680
Managed Turf -- disturbed, graded for yards or other turf to be moved/managed	Area (acres) CN	0.0000 39	0.0000 61	0.0000 74	0.0000 80	
Impervious Cover	Area (acres) CN	0.0000 98	0.0000 98	0.0000 98	0.0680 98	
		CN _(D.A. D)				
		98				
		RV _{Developed (watershed-inch) with no Runoff Reduction*}				
		2.3503 2.8778 4.5435				
		RV _{Developed (watershed-inch) with Runoff Reduction*}				
		1.9228 2.4503 4.1160				
		Adjusted CN*				
		94 94 94				

*See Notes above

Site Results (Water Quality Compliance)

Area Checks	D.A. A	D.A. B	D.A. C	D.A. D	D.A. E	AREA CHECK
FOREST/OPEN SPACE (#0)	0.0000	0.0000	0.0000	0.0000	0.0000	OK.
IMPERVIOUS COVER (#0)	0.0560	0.0360	0.0160	0.0680	0.0000	OK.
IMPERVIOUS COVER TREATED (#0)	0.0560	0.0360	0.0160	0.0680	0.0000	OK.
MANAGED TURF AREA (#0)	0.2430	0.0000	0.0000	0.0000	0.0000	OK.
MANAGED TURF AREA TREATED (#0)	0.2430	0.0000	0.0000	0.0000	0.0000	OK.
AREA CHECK	OK.	OK.	OK.	OK.	OK.	

Site Treatment Volume (ft³) 1,268.3220

Runoff Reduction Volume and TP By Drainage Area

	D.A. A	D.A. B	D.A. C	D.A. D	D.A. E	TOTAL
RUNOFF REDUCTION VOLUME ACHIEVED (ft ³)	330.9108	93.1095	24.8292	105.5241	0.0000	554.3736
TP LOAD AVAILABLE FOR REMOVAL (lb/yr)	0.2599	0.0780	0.0347	0.1473	0.0000	0.5199
TP LOAD REDUCTION ACHIEVED (lb/yr)	0.2336	0.0633	0.0203	0.0865	0.0000	0.4037
TP LOAD REMAINING (lb/yr)	0.0263	0.0147	0.0143	0.0609	0.0000	0.1161
NITROGEN LOAD REDUCTION ACHIEVED (lb/yr)	1.7085	0.4529	0.1455	0.6185	0.0000	2.9255

Total Phosphorus	Value
FINAL POST-DEVELOPMENT TP LOAD (lb/yr)	0.3985
TP LOAD REDUCTION REQUIRED (lb/yr)	0.3985
TP LOAD REDUCTION ACHIEVED (lb/yr)	0.4037
TP LOAD REMAINING (lb/yr)	0.3931
REMAINING TP LOAD REDUCTION REQUIRED (lb/yr)	0.0000 **

** TARGET TP REDUCTION EXCEEDED BY 0.0053 LB/YEAR **

Total Nitrogen (For Information Purposes)	Value
POST-DEVELOPMENT LOAD (lb/yr)	5.7008
NITROGEN LOAD REDUCTION ACHIEVED (lb/yr)	2.9255
REMAINING POST-DEVELOPMENT NITROGEN LOAD (lb/yr)	2.7753

DEQ Virginia Runoff Reduction Method Re-Development Compliance Spreadsheet - Version 3.0

BMP Design Specifications List: 2013 Draft Stds & Specs

Site Summary

Project Title: New Park at South Eads Street
Date: 4/6/20

Total Rainfall (in):	43
Total Disturbed Acreage:	0.7060

[Update Summary Sheet](#)

[Print Preview](#) [Print](#)

Site Land Cover Summary

Pre-ReDevelopment Land Cover (acres)

	A soils	B Soils	C Soils	D Soils	Totals	% of Total
Forest/Open (acres)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Managed Turf (acres)	0.0000	0.0000	0.0000	0.6660	0.6660	94.3343
Impervious Cover (acres)	0.0000	0.0000	0.0000	0.0400	0.0400	5.6657
					0.7060	100.0000

Post-ReDevelopment Land Cover (acres)

	A soils	B Soils	C Soils	D Soils	Totals	% of Total
Forest/Open (acres)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Managed Turf (acres)	0.0000	0.0000	0.0000	0.4590	0.4590	65.0142
Impervious Cover (acres)	0.0000	0.0000	0.0000	0.2470	0.2470	34.9858
					0.7060	100.0000

Site TP and Land Cover Nutrient Loads

	Final Post-Development (Post-ReDevelopment & New Impervious)	Post-ReDevelopment	Post-Development (New Impervious)	Adjusted Pre-ReDevelopment
Site RV	0.4949	0.3061	0.9500	0.3061
Treatment Volume (ft ³)	1,268.3220	554.4825	713.8395	554.4825
TP Load (lb/yr)	0.7969	0.3484	0.4485	0.3484

Pre-ReDevelopment TP Load per acre (lb/acre/yr)	Final Post-Development TP Load per acre (lb/acre/yr)	Post-ReDevelopment TP Load per acre (lb/acre/yr)
0.7000	1.1300	0.7000

Total TP Load Reduction Required (lb/yr)	0.3985	0.0348	0.3636
--	--------	--------	--------

	Final Post-Development Load (Post-ReDevelopment & New Impervious)	Pre-ReDevelopment
TN Load (lb/yr)	5.7008	3.3366

Site Compliance Summary

Maximum% Reduction Required Below Pre-ReDevelopment Load	10%
--	-----

Total Runoff Volume Reduction (ft ³)	554.3736
Total TP Load Reduction Achieved (lb/yr)	0.4037
Total TN Load Reduction Achieved (lb/yr)	2.9255
Remaining Post Development TP Load (lb/yr)	0.3931
Remaining TP Load Reduction (lb/yr) Required	0.0000

** TARGET TP REDUCTION EXCEEDED BY 0.0053 LB/YEAR **



DEPARTMENT OF PARKS AND RECREATION

Park Development Division
2100 Clarendon Boulevard, Suite 414
Arlington, VA 22201
Phone: 703.228.3332
Fax: 703.228.3328

ITB #23-DPR-ITBPW-450

#SWM 22-0224

Project Name and Location

ARLINGTON JUNCTION PARK

FINAL PLAN

1051 SOUTH EADS STREET

ARLINGTON, VIRGINIA

Sheet Title

STORMWATER MANAGEMENT CALCULATIONS

Approval _____ Date _____

Design Supervisor _____

Revisions _____ Date _____

CEP#2 _____ 12/21/2022

CEP#3 _____ 06/02/2023

BUILDING PERMIT _____ 02/15/2023

REVISED BUILDING PERMIT _____ 04/20/2023

CEP#4 _____ 07/21/2023

Designed: ME

Drawn: ME

Checked: JA

Filename: _____

Plotted: _____

Scale: AS SHOWN

Date: July 21, 2023

Seal



ARLINGTON COUNTY, VIRGINIA
DEPARTMENT OF ENVIRONMENTAL SERVICES

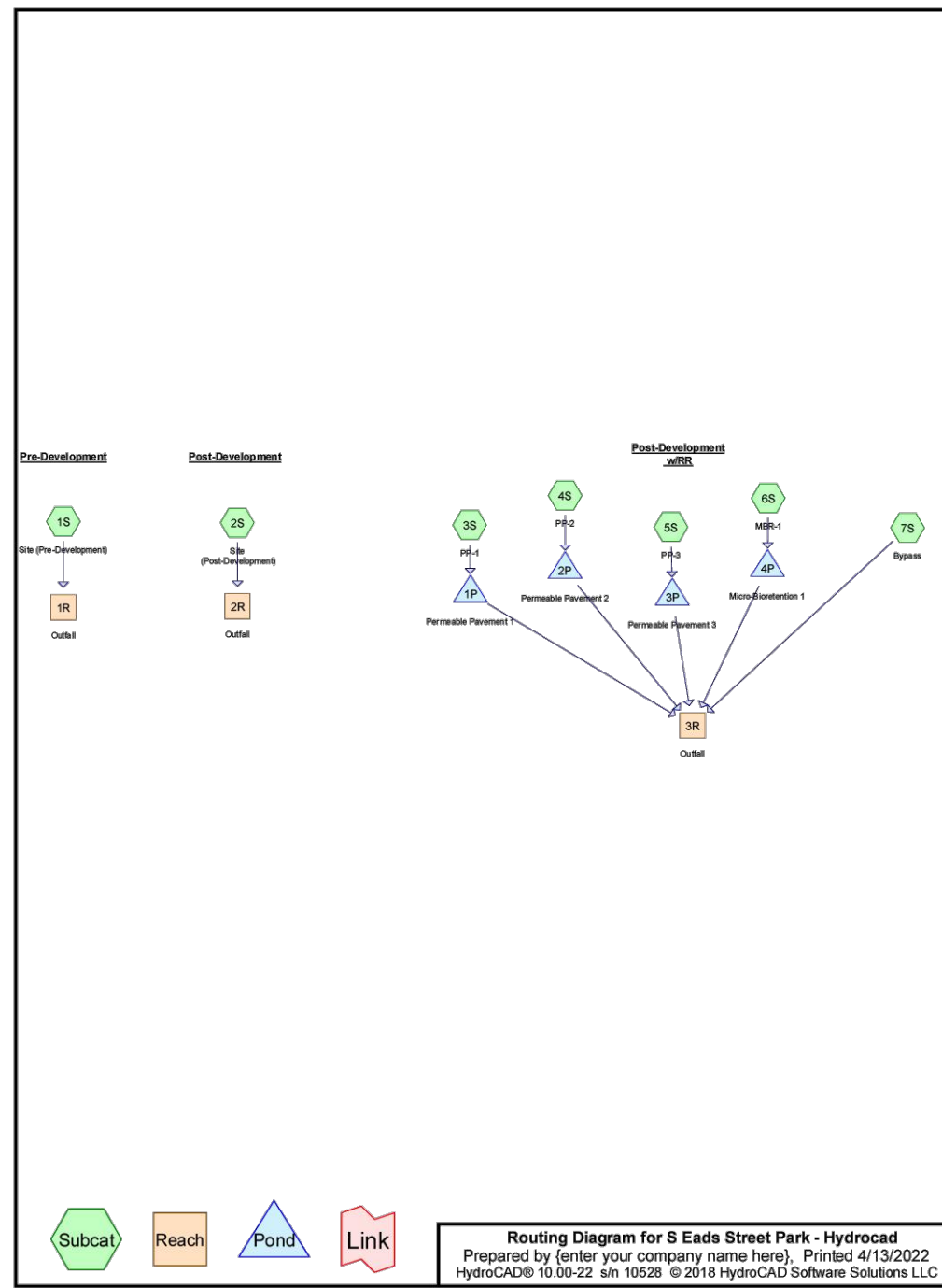
STORMWATER MANAGEMENT CALCULATIONS
ARLINGTON JUNCTION PARK--CIVIL ENGINEERING PLAN
1051 SOUTH EADS STREET
ARLINGTON COUNTY, VA

SCALE: AS SHOWN SHEET C5.020

Sheet

C5.020

ROUTING DIAGRAM



AREAS SUMMARY

S Eads Street Park - HydroCAD Type II 24-hr 1-yr Rainfall=2.58"
 Prepared by (enter your company name here), Printed 4/13/2022
 HydroCAD® 10.00.22, s/n. 10529, © 2019 HydroCAD Software Solutions LLC Page 2

Time span=0.00-28.00 hrs, dt=0.05 hrs, 561 points
 Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
 Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment	Area (ac)	Impervious (%)	Runoff Depth (in)	Flow Length (ft)	Tc (min)	CN	Runoff (cfs)
Subcatchment1S: Site (Pre-Development)	0.683	3.51%	1.00"	160'	11.9	81	0.057
Subcatchment2S: Site (Post-Development)	0.683	32.06%	1.31"	160'	10.3	86	0.075
Subcatchment3S: PP-1	0.030	100.00%	2.35"	8.0	8	98	0.006
Subcatchment4S: PP-2	0.015	100.00%	2.35"	8.0	8	98	0.003
Subcatchment5S: PP-3	0.035	100.00%	2.35"	8.0	8	98	0.007
Subcatchment6S: MBR-1	0.299	18.73%	1.12"	160'	10.3	83	0.028
Subcatchment7S: Bypass	0.304	27.30%	1.24"	8.0	8	85	0.031

Reach 1R: Outfall Inflow=0.96 cfs 0.057 af Outflow=0.96 cfs 0.057 af
 Reach 2R: Outfall Inflow=1.34 cfs 0.075 af Outflow=1.34 cfs 0.075 af
 Reach 3R: Outfall Inflow=0.66 cfs 0.048 af Outflow=0.66 cfs 0.048 af
 Pond 1P: Permeable Pavement 1 Peak Elev=35.22' Storage=256 cf Inflow=0.11 cfs 0.006 af Outflow=0.00 cfs 0.000 af
 Pond 2P: Permeable Pavement 2 Peak Elev=34.91' Storage=128 cf Inflow=0.05 cfs 0.003 af Outflow=0.00 cfs 0.000 af
 Pond 3P: Permeable Pavement 3 Peak Elev=34.66' Storage=299 cf Inflow=0.12 cfs 0.007 af Outflow=0.00 cfs 0.000 af
 Pond 4P: Micro-Bioretenation 1 Peak Elev=34.01' Storage=761 cf Inflow=0.50 cfs 0.028 af Outflow=0.01 cfs 0.017 af

Total Runoff Area = 2.049 ac Runoff Volume = 0.206 af Average Runoff Depth = 1.21"
 77.45% Pervious = 1.587 ac 22.55% Impervious = 0.462 ac

1-YR PRE-DEVELOPMENT

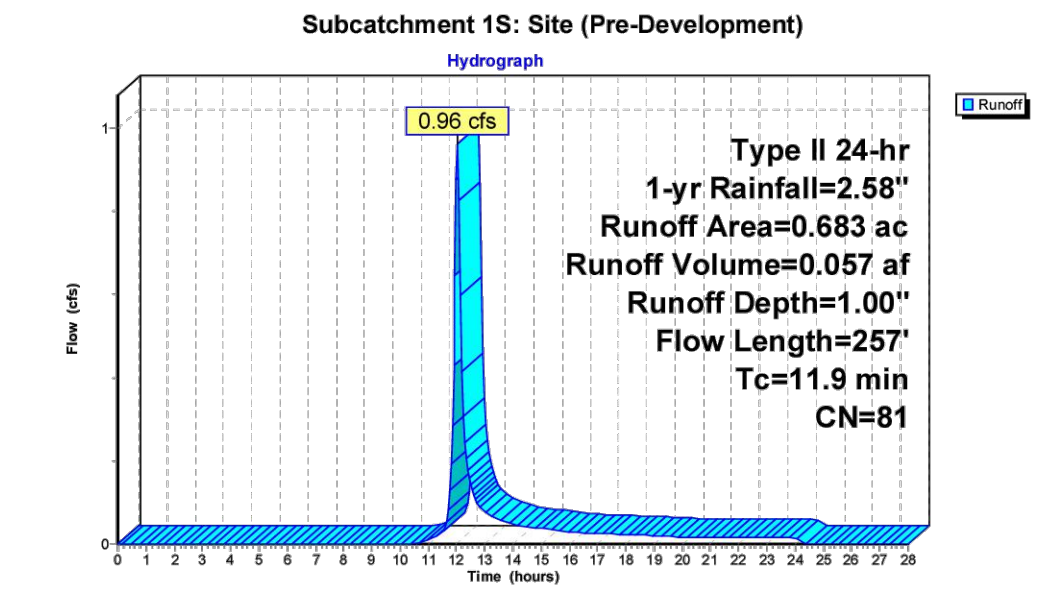
S Eads Street Park - HydroCAD Type II 24-hr 1-yr Rainfall=2.58"
 Prepared by (enter your company name here), Printed 4/13/2022
 HydroCAD® 10.00.22, s/n. 10529, © 2019 HydroCAD Software Solutions LLC Page 3

Summary for Subcatchment 1S: Site (Pre-Development)
 Runoff = 0.96 cfs @ 12.04 hrs, Volume= 0.057 af, Depth= 1.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-28.00 hrs, dt= 0.05 hrs
 Type II 24-hr 1-yr Rainfall=2.58"

Area (ac)	CN	Description
0.659	80	Managed Turf
0.024	98	Impervious Cover
0.683	81	Weighted Average
0.659	80	56.49% Pervious Area
0.024	98	3.51% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.5	100	0.0176	0.16		Sheet Flow, Sheet Flow Grass: Short n=0.150 P2= 3.07"
1.4	157	0.0135	1.87		Shallow Concentrated Flow, Shallow Concentrated Flow Unpaved Kv= 16.1 fps
11.9	257				Total



10-YR PRE-DEVELOPMENT

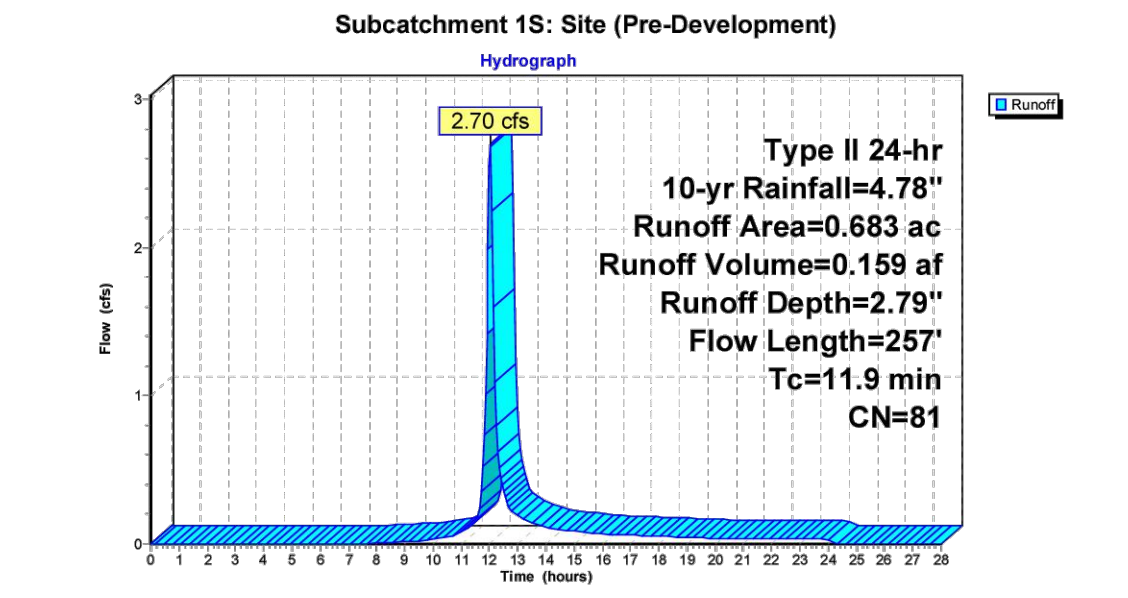
S Eads Street Park - HydroCAD Type II 24-hr 10-yr Rainfall=4.78"
 Prepared by (enter your company name here), Printed 4/13/2022
 HydroCAD® 10.00.22, s/n. 10529, © 2019 HydroCAD Software Solutions LLC Page 3

Summary for Subcatchment 1S: Site (Pre-Development)
 Runoff = 2.70 cfs @ 12.04 hrs, Volume= 0.159 af, Depth= 2.79"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-28.00 hrs, dt= 0.05 hrs
 Type II 24-hr 10-yr Rainfall=4.78"

Area (ac)	CN	Description
0.659	80	Managed Turf
0.024	98	Impervious Cover
0.683	81	Weighted Average
0.659	80	56.49% Pervious Area
0.024	98	3.51% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.5	100	0.0176	0.16		Sheet Flow, Sheet Flow Grass: Short n=0.150 P2= 3.07"
1.4	157	0.0135	1.87		Shallow Concentrated Flow, Shallow Concentrated Flow Unpaved Kv= 16.1 fps
11.9	257				Total



1-YR POST-DEVELOPMENT

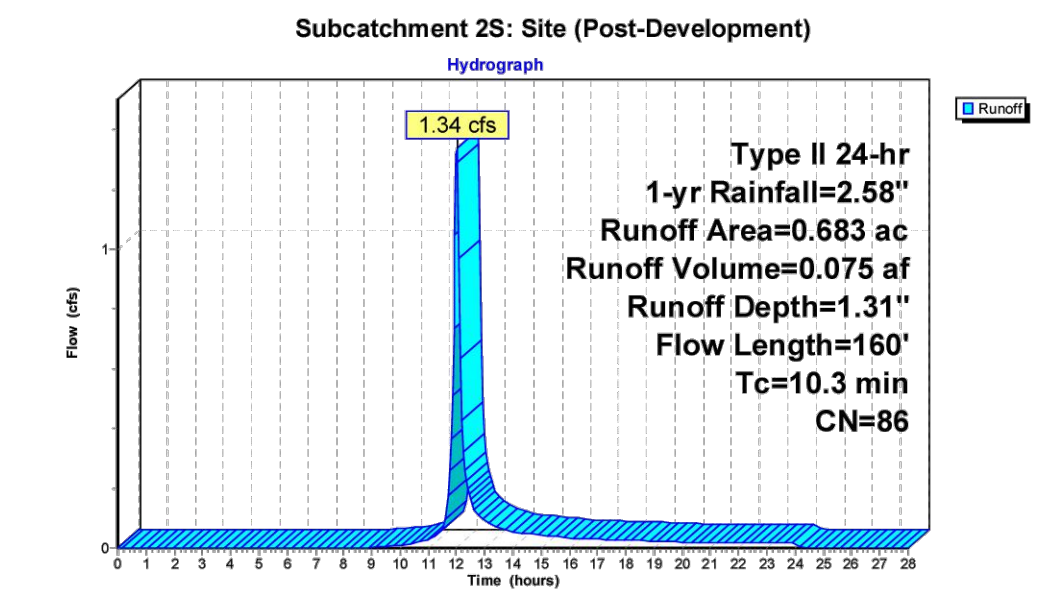
S Eads Street Park - HydroCAD Type II 24-hr 1-yr Rainfall=2.58"
 Prepared by (enter your company name here), Printed 4/13/2022
 HydroCAD® 10.00.22, s/n. 10529, © 2019 HydroCAD Software Solutions LLC Page 4

Summary for Subcatchment 2S: Site (Post-Development)
 Runoff = 1.34 cfs @ 12.02 hrs, Volume= 0.075 af, Depth= 1.31"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-28.00 hrs, dt= 0.05 hrs
 Type II 24-hr 1-yr Rainfall=2.58"

Area (ac)	CN	Description
0.464	80	Managed Turf
0.219	98	Impervious Cover
0.683	86	Weighted Average
0.464	80	57.94% Pervious Area
0.219	98	32.06% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.8	100	0.0210	0.17		Sheet Flow, Sheet Flow Grass: Short n=0.150 P2= 3.07"
0.5	60	0.0158	2.02		Shallow Concentrated Flow, Shallow Concentrated Flow Unpaved Kv= 16.1 fps
10.3	160				Total



10-YR POST-DEVELOPMENT

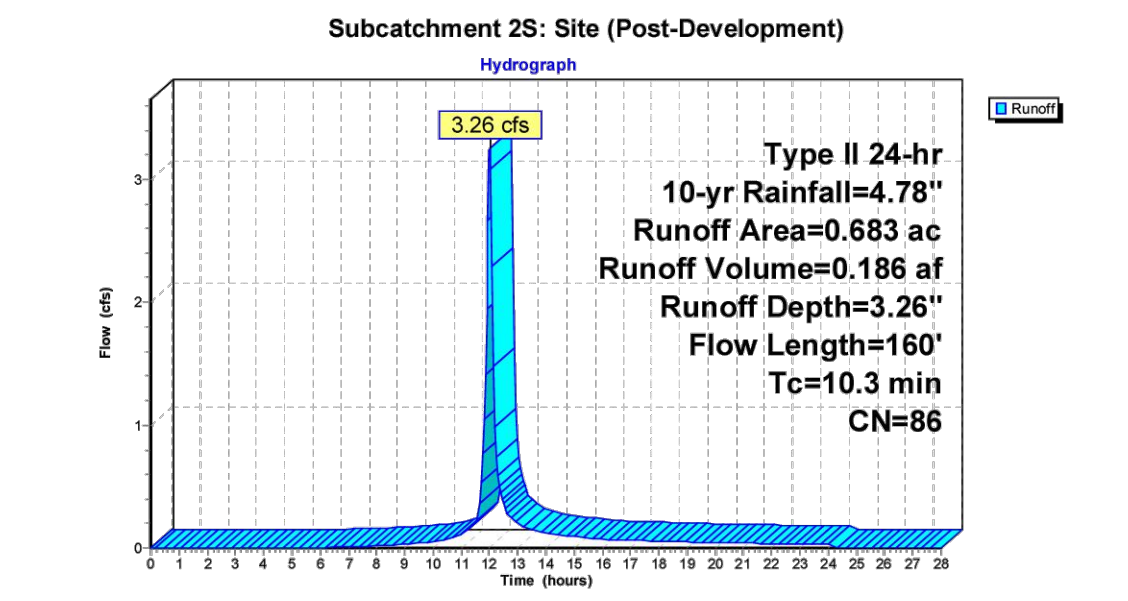
S Eads Street Park - HydroCAD Type II 24-hr 10-yr Rainfall=4.78"
 Prepared by (enter your company name here), Printed 4/13/2022
 HydroCAD® 10.00.22, s/n. 10529, © 2019 HydroCAD Software Solutions LLC Page 4

Summary for Subcatchment 2S: Site (Post-Development)
 Runoff = 3.26 cfs @ 12.01 hrs, Volume= 0.186 af, Depth= 3.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-28.00 hrs, dt= 0.05 hrs
 Type II 24-hr 10-yr Rainfall=4.78"

Area (ac)	CN	Description
0.464	80	Managed Turf
0.219	98	Impervious Cover
0.683	86	Weighted Average
0.464	80	57.94% Pervious Area
0.219	98	32.06% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.8	100	0.0210	0.17		Sheet Flow, Sheet Flow Grass: Short n=0.150 P2= 3.07"
0.5	60	0.0158	2.02		Shallow Concentrated Flow, Shallow Concentrated Flow Unpaved Kv= 16.1 fps
10.3	160				Total



SWM Water Quantity Energy Balance Worksheet

SITE AREA (acre)	1-year		10-year	
	PRE	POST (adjusted)	PRE	POST (adjusted)
P	2.69	2.69	4.84	4.84
CN	81	86	81	86
S=1000/CN-10	2.35	1.63	2.35	1.63
0.2S	0.47	0.33	0.47	0.33
RV=(P-0.2S) ² /(P-0.2S)+S	1.08	1.40	2.84	3.32

QPost Development <= I.F.* (Qpre-development* RVpre-development)/RVDeveloped

I.F. 0.9

CHANNEL PROTECTION	
Qpre-development	0.96
QPost Development	1.34
RVPost Development (with runoff reduction)	1.40
Qallowable	0.67

FLOOD CONTROL	
Qpre-development	2.70
QPost Development	3.26
RVPost Development (with runoff reduction)	3.32
Qallowable	2.31

Qallowable/QPost Development	0.50
Vs/Vr	0.28
Vs	0.39
Storage required (cf)	972

Qallowable/QPost Development	0.71
Vs/Vr	0.21
Vs	0.70
Storage required (cf)	1727

POST (adjusted) from RRM 'Channel and Flood Protection' tab; PRE CN can be computed using same computations on this tab

ARLINGTON COUNTY, VIRGINIA
 DEPARTMENT OF ENVIRONMENTAL SERVICES

PRE-DEVELOPMENT SWM CALCULATIONS
 ARLINGTON JUNCTION PARK-CIVIL ENGINEERING PLAN
 1051 SOUTH EADS STREET
 ARLINGTON COUNTY, VA

SCALE: AS SHOWN SHEET C5.030



DEPARTMENT OF PARKS AND RECREATION

Park Development Division
 2100 Clarendon Boulevard, Suite 414
 Arlington, VA 22201
 Phone: 703.228.3332
 Fax: 703.228.3328

ITB #23-DPR-ITBPW-450

#SWM 22-0224

Project Name and Location

ARLINGTON JUNCTION PARK

FINAL PLAN

1051 SOUTH EADS STREET

ARLINGTON, VIRGINIA

Sheet Title

PRE-DEVELOPMENT SWM CALCULATIONS

Approval Date

Design Supervisor

Revisions Date

CEP#2 12/21/2022

CEP#3 06/02/2023

BUILDING PERMIT 02/15/2023

REVISED BUILDING PERMIT 04/20/2023

CEP#4 07/21/2023

Designed: ME

Drawn: ME

Checked: JA

Filename:

Plotted:

Scale: AS SHOWN

Date: July 21, 2023

Seal



Sheet

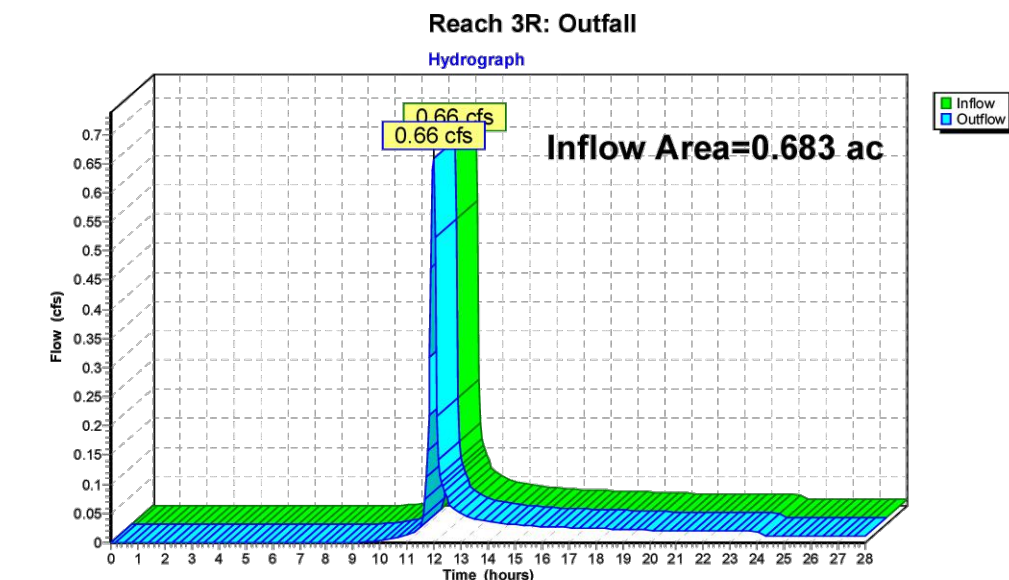
C5.030

I-YR POST-DEVELOPMENT W/R/R

S Eads Street Park - Hydrocad Type II 24-hr 1-yr Rainfall=2.58"
 Prepared by (enter your company name here) Printed 4/13/2022
 HydroCAD® 10.00.22 s/n 10528 © 2018 HydroCAD Software Solutions LLC Page 12

Summary for Reach 3R: Outfall

[40] Hint: Not Described (Outflow=Inflow)
 Inflow Area = 0.683 ac, 32.06% Impervious, Inflow Depth > 0.85" for 1-yr event
 Inflow = 0.66 cfs @ 11.97 hrs, Volume= 0.048 af
 Outflow = 0.66 cfs @ 11.97 hrs, Volume= 0.048 af, Atten= 0%, Lag= 0.0 min
 Routing by Stor-Ind+Trans method, Time Span= 0.00-28.00 hrs, dt= 0.05 hrs



S Eads Street Park - Hydrocad Type II 24-hr 1-yr Rainfall=2.58"
 Prepared by (enter your company name here) Printed 4/13/2022
 HydroCAD® 10.00.22 s/n 10528 © 2018 HydroCAD Software Solutions LLC Page 13

Summary for Pond 1P: Permeable Pavement 1

Inflow Area = 0.030 ac, 100.00% Impervious, Inflow Depth = 2.35" for 1-yr event
 Inflow = 0.11 cfs @ 11.96 hrs, Volume= 0.008 af
 Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Atten= 100%, Lag= 0.0 min
 Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
 Routing by Stor-Ind method, Time Span= 0.00-28.00 hrs, dt= 0.05 hrs
 Peak Elev= 35.22 @ 24.40 hrs Surf.Area= 1,301 sf Storage= 259 cf

Volume	Invert	Avail. Storage	Storage Description
#1	34.73'	260 cf	Sand (Prismatic) Listed below (Recalc) 651 of Overall x 40.0% Voids
#2	35.23'	520 cf	Stone (Sump) (Prismatic) Listed below (Recalc) 1,301 of Overall x 40.0% Voids
#3	36.23'	781 cf	Stone (Prismatic) Listed below (Recalc) 1,952 of Overall x 40.0% Voids
1,561 cf Total Available Storage			

Elevation (feet)	Surf Area (sq-ft)	Inc. Store (cubic-feet)	Cum. Store (cubic-feet)
34.73	1,301	0	0
35.23	1,301	651	651
36.23	1,301	1,301	1,301
37.23	1,301	1,952	1,952

Device	Routing	Invert	Outlet Devices
#1	Primary	37.02'	6.0" Round Underdrain L= 108.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 37.02' / 36.48' S= 0.0050' / C= 0.900 n= 0.010 PVC, smooth interior, Flow Area= 0.20 sf
#2	Device 1	36.48'	0.4" Vert. Perforations X 3 rows with 6.0" cc spacing C= 0.600

Primary Outflow Max=0.00 cfs @ 0.00 hrs HW=34.73' (Free Discharge)
 1=Underdrain (Controls 0.00 cfs)
 2=Perforations (Controls 0.00 cfs)

STAGE STORAGE (PP-1, PP-2, PP-3, MBR-1)

S Eads Street Park - Hydrocad Type II 24-hr 1-yr Rainfall=2.58"
 Prepared by (enter your company name here) Printed 4/13/2022
 HydroCAD® 10.00.22 s/n 10528 © 2018 HydroCAD Software Solutions LLC Page 13

Summary for Pond 2P: Permeable Pavement 2

Inflow Area = 0.015 ac, 100.00% Impervious, Inflow Depth = 2.35" for 1-yr event
 Inflow = 0.05 cfs @ 11.96 hrs, Volume= 0.003 af
 Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Atten= 100%, Lag= 0.0 min
 Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
 Routing by Stor-Ind method, Time Span= 0.00-28.00 hrs, dt= 0.05 hrs
 Peak Elev= 34.91 @ 24.40 hrs Surf.Area= 1,427 sf Storage= 128 cf

Volume	Invert	Avail. Storage	Storage Description
#1	34.42'	393 cf	Stone (Prismatic) Listed below (Recalc) 983 of Overall x 40.0% Voids

Elevation (feet)	Surf Area (sq-ft)	Inc. Store (cubic-feet)	Cum. Store (cubic-feet)
34.42	655	0	0
35.92	655	983	983

Device	Routing	Invert	Outlet Devices
#1	Primary	34.97'	6.0" Round Underdrain L= 69.1' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 34.97' / 34.39' S= 0.0051' / C= 0.900 n= 0.010 PVC, smooth interior, Flow Area= 0.20 sf
#2	Device 1	34.39'	0.4" Vert. Perforations X 3 rows with 6.0" cc spacing C= 0.600

Primary Outflow Max=0.00 cfs @ 0.00 hrs HW=34.42' (Free Discharge)
 1=Underdrain (Controls 0.00 cfs)
 2=Perforations (Controls 0.00 cfs)

S Eads Street Park - Hydrocad Type II 24-hr 1-yr Rainfall=2.58"
 Prepared by (enter your company name here) Printed 4/13/2022
 HydroCAD® 10.00.22 s/n 10528 © 2018 HydroCAD Software Solutions LLC Page 13

Summary for Pond 3P: Permeable Pavement 3

Inflow Area = 0.035 ac, 100.00% Impervious, Inflow Depth = 2.35" for 1-yr event
 Inflow = 0.12 cfs @ 11.96 hrs, Volume= 0.007 af
 Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Atten= 100%, Lag= 0.0 min
 Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
 Routing by Stor-Ind method, Time Span= 0.00-28.00 hrs, dt= 0.05 hrs
 Peak Elev= 34.66 @ 24.40 hrs Surf.Area= 1,427 sf Storage= 299 cf

Volume	Invert	Avail. Storage	Storage Description
#1	34.14'	856 cf	Stone (Prismatic) Listed below (Recalc) 2,141 of Overall x 40.0% Voids

Elevation (feet)	Surf Area (sq-ft)	Inc. Store (cubic-feet)	Cum. Store (cubic-feet)
34.14	1,427	0	0
35.64	1,427	2,141	2,141

Device	Routing	Invert	Outlet Devices
#1	Primary	35.11'	6.0" Round Underdrain L= 144.5' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 35.11' / 34.39' S= 0.0051' / C= 0.900 n= 0.010 PVC, smooth interior, Flow Area= 0.20 sf
#2	Device 1	34.39'	0.4" Vert. Perforations X 3 rows with 6.0" cc spacing C= 0.600

Primary Outflow Max=0.00 cfs @ 0.00 hrs HW=34.14' (Free Discharge)
 1=Underdrain (Controls 0.00 cfs)
 2=Perforations (Controls 0.00 cfs)

S Eads Street Park - Hydrocad Type II 24-hr 1-yr Rainfall=2.58"
 Prepared by (enter your company name here) Printed 4/13/2022
 HydroCAD® 10.00.22 s/n 10528 © 2018 HydroCAD Software Solutions LLC Page 13

Summary for Pond 4P: Micro-Biorentention 1

[44] Hint: Outlet device #4 is below defined storage
 Inflow Area = 0.299 ac, 18.73% Impervious, Inflow Depth = 1.12" for 1-yr event
 Inflow = 0.50 cfs @ 12.02 hrs, Volume= 0.028 af
 Outflow = 0.01 cfs @ 16.09 hrs, Volume= 0.017 af, Atten= 97%, Lag= 244.2 min
 Primary = 0.01 cfs @ 16.09 hrs, Volume= 0.017 af
 Routing by Stor-Ind method, Time Span= 0.00-28.00 hrs, dt= 0.05 hrs
 Peak Elev= 34.01 @ 16.09 hrs Surf.Area= 2,095 sf Storage= 781 cf

Volume	Invert	Avail. Storage	Storage Description
#1	32.45'	268 cf	Stone (Prismatic) Listed below (Recalc) 670 of Overall x 40.0% Voids
#2	33.45'	335 cf	Media (Prismatic) Listed below (Recalc) 1,340 of Overall x 25.0% Voids
#3	33.45'	2,419 cf	Ponding (Prismatic) Listed below (Recalc) 3,022 cf Total Available Storage

Elevation (feet)	Surf Area (sq-ft)	Inc. Store (cubic-feet)	Cum. Store (cubic-feet)
32.45	670	0	0
33.45	670	670	670
33.45	670	0	0
35.45	670	1,340	1,340

Device	Routing	Invert	Outlet Devices
#1	Primary	32.32'	15.0" Round Outfall L= 17.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 32.32' / 32.23' S= 0.0053' / C= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 1.23 sf
#2	Device 1	32.45'	6.0" Round 6" Underdrain L= 26.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 32.45' / 32.32' S= 0.0050' / C= 0.900 n= 0.010 PVC, smooth interior, Flow Area= 0.20 sf
#3	Device 1	35.70'	24.0" Horiz. Overflow Weir C= 0.600 Limited to weir flow at low heads
#4	Device 2	32.32'	0.4" Vert. Perforations X 3 rows with 6.0" cc spacing C= 0.600

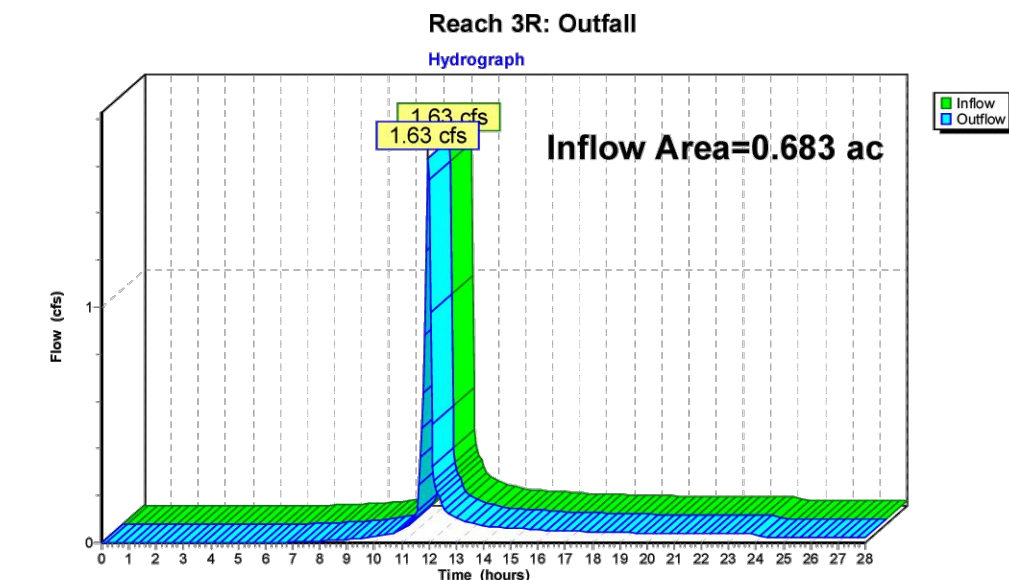
Primary Outflow Max=0.00 cfs @ 0.00 hrs HW=34.01' (Free Discharge)
 1=Underdrain (Controls 0.00 cfs)
 2=Perforations (Controls 0.00 cfs)

10-YR POST-DEVELOPMENT W/R/R

S Eads Street Park - Hydrocad Type II 24-hr 10-yr Rainfall=4.78"
 Prepared by (enter your company name here) Printed 4/13/2022
 HydroCAD® 10.00.22 s/n 10528 © 2018 HydroCAD Software Solutions LLC Page 12

Summary for Reach 3R: Outfall

[40] Hint: Not Described (Outflow=Inflow)
 Inflow Area = 0.683 ac, 32.06% Impervious, Inflow Depth > 1.94" for 10-yr event
 Inflow = 1.63 cfs @ 11.97 hrs, Volume= 0.111 af
 Outflow = 1.63 cfs @ 11.97 hrs, Volume= 0.111 af, Atten= 0%, Lag= 0.0 min
 Routing by Stor-Ind+Trans method, Time Span= 0.00-28.00 hrs, dt= 0.05 hrs



S Eads Street Park - Hydrocad Type II 24-hr 10-yr Rainfall=4.78"
 Prepared by (enter your company name here) Printed 4/13/2022
 HydroCAD® 10.00.22 s/n 10528 © 2018 HydroCAD Software Solutions LLC Page 13

Summary for Pond 1P: Permeable Pavement 1

Inflow Area = 0.030 ac, 100.00% Impervious, Inflow Depth = 4.54" for 10-yr event
 Inflow = 0.20 cfs @ 11.96 hrs, Volume= 0.011 af
 Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Atten= 100%, Lag= 0.0 min
 Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
 Routing by Stor-Ind method, Time Span= 0.00-28.00 hrs, dt= 0.05 hrs
 Peak Elev= 35.68 @ 24.40 hrs Surf.Area= 2,602 sf Storage= 495 cf

Volume	Invert	Avail. Storage	Storage Description
#1	34.73'	260 cf	Sand (Prismatic) Listed below (Recalc) 651 of Overall x 40.0% Voids
#2	35.23'	520 cf	Stone (Sump) (Prismatic) Listed below (Recalc) 1,301 of Overall x 40.0% Voids
#3	36.23'	781 cf	Stone (Prismatic) Listed below (Recalc) 1,952 of Overall x 40.0% Voids
1,561 cf Total Available Storage			

Elevation (feet)	Surf Area (sq-ft)	Inc. Store (cubic-feet)	Cum. Store (cubic-feet)
34.73	1,301	0	0
35.23	1,301	651	651
36.23	1,301	1,301	1,301
37.23	1,301	1,952	1,952

Device	Routing	Invert	Outlet Devices
#1	Primary	37.02'	6.0" Round Underdrain L= 108.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 37.02' / 36.48' S= 0.0050' / C= 0.900 n= 0.010 PVC, smooth interior, Flow Area= 0.20 sf
#2	Device 1	36.48'	0.4" Vert. Perforations X 3 rows with 6.0" cc spacing C= 0.600

Primary Outflow Max=0.00 cfs @ 0.00 hrs HW=34.73' (Free Discharge)
 1=Underdrain (Controls 0.00 cfs)
 2=Perforations (Controls 0.00 cfs)

STAGE STORAGE (PP-1, PP-2, PP-3, MBR-1)

S Eads Street Park - Hydrocad Type II 24-hr 10-yr Rainfall=4.78"
 Prepared by (enter your company name here) Printed 4/13/2022
 HydroCAD® 10.00.22 s/n 10528 © 2018 HydroCAD Software Solutions LLC Page 13

Summary for Pond 2P: Permeable Pavement 2

Inflow Area = 0.015 ac, 100.00% Impervious, Inflow Depth = 4.54" for 10-yr event
 Inflow = 0.10 cfs @ 11.96 hrs, Volume= 0.005 af
 Outflow = 0.00 cfs @ 15.82 hrs, Volume= 0.000 af, Atten= 98%, Lag= 231.4 min
 Primary = 0.00 cfs @ 15.82 hrs, Volume= 0.000 af
 Routing by Stor-Ind method, Time Span= 0.00-28.00 hrs, dt= 0.05 hrs
 Peak Elev= 35.15 @ 15.82 hrs Surf.Area= 655 sf Storage= 192 cf

Volume	Invert	Avail. Storage	Storage Description
#1	34.42'	393 cf	Stone (Prismatic) Listed below (Recalc) 983 of Overall x 40.0% Voids

Elevation (feet)	Surf Area (sq-ft)	Inc. Store (cubic-feet)	Cum. Store (cubic-feet)
34.42	655	0	0
35.92	655	983	983

Device	Routing	Invert	Outlet Devices
#1	Primary	34.97'	6.0" Round Underdrain L= 69.1' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 34.97' / 34.39' S= 0.0051' / C= 0.900 n= 0.010 PVC, smooth interior, Flow Area= 0.20 sf
#2	Device 1	34.39'	0.4" Vert. Perforations X 3 rows with 6.0" cc spacing C= 0.600

Primary Outflow Max=0.00 cfs @ 15.82 hrs HW=35.15' (Free Discharge)
 1=Underdrain (Passes 0.00 cfs of 0.07 cfs potential flow)
 2=Perforations (Perforations Controls 0.00 cfs @ 2.06 fps)

S Eads Street Park - Hydrocad Type II 24-hr 10-yr Rainfall=4.78"
 Prepared by (enter your company name here) Printed 4/13/2022
 HydroCAD® 10.00.22 s/n 10528 © 2018 HydroCAD Software Solutions LLC Page 13

Summary for Pond 3P: Permeable Pavement 3

Inflow Area = 0.035 ac, 100.00% Impervious, Inflow Depth = 4.54" for 10-yr event
 Inflow = 0.23 cfs @ 11.96 hrs, Volume= 0.013 af
 Outflow = 0.00 cfs @ 24.07 hrs, Volume= 0.000 af, Atten= 99%, Lag= 726.4 min
 Primary = 0.00 cfs @ 24.07 hrs, Volume= 0.000 af
 Routing by Stor-Ind method, Time Span= 0.00-28.00 hrs, dt= 0.05 hrs
 Peak Elev= 35.14 @ 24.07 hrs Surf.Area= 1,427 sf Storage= 569 cf

Volume	Invert	Avail. Storage	Storage Description
#1	34.14'	856 cf	Stone (Prismatic) Listed below (Recalc) 2,141 of Overall x 40.0% Voids

Elevation (feet)	Surf Area (sq-ft)	Inc. Store (cubic-feet)	Cum. Store (cubic-feet)
34.14	1,427	0	0
35.64	1,427	2,141	2,141

Device	Routing	Invert	Outlet Devices
#1	Primary	35.11'	6.0" Round Underdrain L= 144.5' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 35.11' / 34.39' S= 0.0051' / C= 0.900 n= 0.010 PVC, smooth interior, Flow Area= 0.20 sf
#2	Device 1	34.39'	0.4" Vert. Perforations X 3 rows with 6.0" cc spacing C= 0.600

Primary Outflow Max=0.00 cfs @ 24.07 hrs HW=35.14' (Free Discharge)
 1=Underdrain (Passes 0.00 cfs of 0.00 cfs potential flow)
 2=Perforations (Perforations Controls 0.00 cfs @ 2.06 fps)

S Eads Street Park - Hydrocad Type II 24-hr 10-yr Rainfall=4.78"
 Prepared by (enter your company name here) Printed 4/13/2022
 HydroCAD® 10.00.22 s/n 10528 © 2018 HydroCAD Software Solutions LLC Page 13

Summary for Pond 4P: Micro-Biorentention 1

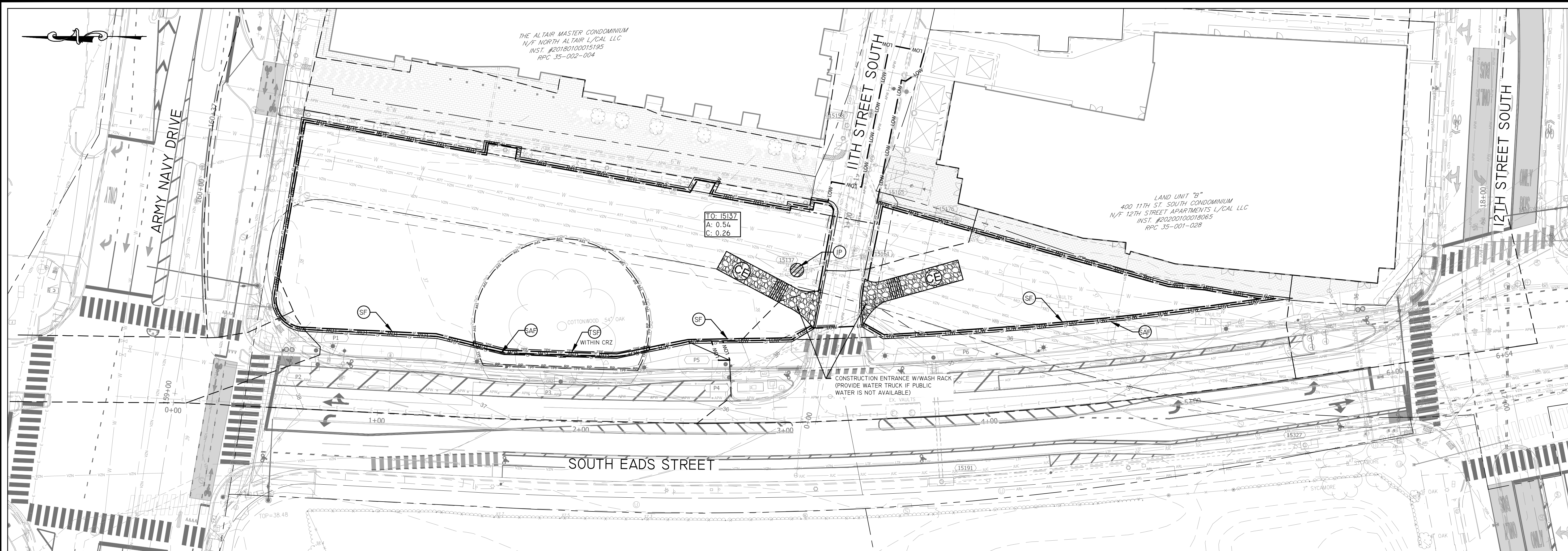
[44] Hint: Outlet device #4 is below defined storage
 Inflow Area = 0.299 ac, 18.73% Impervious, Inflow Depth = 2.98" for 10-yr event
 Inflow = 1.32 cfs @ 12.02 hrs, Volume= 0.074 af
 Outflow = 0.02 cfs @ 16.09 hrs, Volume= 0.028 af, Atten= 98%, Lag= 412.6 min
 Primary = 0.02 cfs @ 16.09 hrs, Volume= 0.028 af
 Routing by Stor-Ind method, Time Span= 0.00-28.00 hrs, dt= 0.05 hrs
 Peak Elev= 35.58 @ 16.09 hrs Surf.Area= 2,334 sf Storage= 2,372 cf

Volume	Invert	Avail. Storage	Storage Description
#1	32.45'	268 cf	Stone (Prismatic) Listed below (Recalc) 670 of Overall x 40.0% Voids
#2	33.45'	335 cf	Media (Prismatic) Listed below (Recalc) 1,340 of Overall x 25.0% Voids
#3	33.45'	2,419 cf	Ponding (Prismatic) Listed below (Recalc) 3,022 cf Total Available Storage

Elevation (feet)	Surf Area (sq-ft)	Inc. Store (cubic-feet)	Cum. Store (cubic-feet)
32.45	670	0	0
33.45	670	670	670
33.45	670	0	0
35.45	670	1,340	1,340


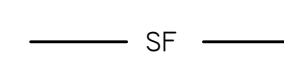
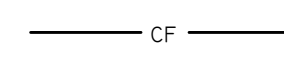
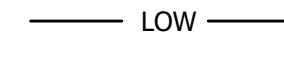
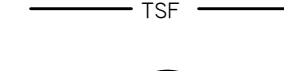


Device	Routing	Invert	Outlet Devices
#1	Primary	32.32'	15.0" Round Outfall L= 17.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 32.32' / 32.23' S= 0.0053' / C= 0.900 n= 0.012 Corrugated PP, smooth interior, Flow Area= 1.23 sf
#2	Device 1	32.45'	6.0" Round 6" Underdrain L= 26.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 32.45' / 32.32' S= 0.0050' / C= 0.900 n= 0.010 PVC, smooth interior, Flow Area= 0.20 sf
#3	Device 1	35.70'	24.0" Horiz. Overflow Weir C= 0.600 Limited to weir flow at low heads
#4	Device 2	32.32'	0.4" Vert. Perforations X 3 rows with 6.0" cc spacing C= 0.600

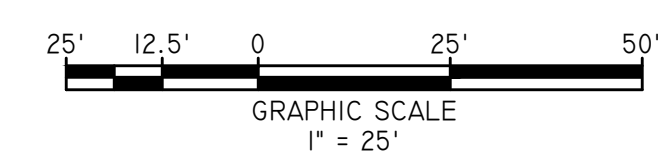
Primary Outflow Max=0.00 cfs @ 0.00 hrs HW=34.01' (Free Discharge)
 1=Underdrain (Controls 0.00 cfs)
 2=Perforations (Controls 0.00 cfs)



EROSION & SEDIMENT CONTROL PHASE I
SCALE: 1" = 25'

LEGEND:

-  TEMPORARY CONSTRUCTION ENTRANCE, SPEC. 3.02
-  SILT FENCE, SPEC. 3.05-2
-  SAFETY FENCE, SPEC. 3.01
-  LIMITS OF WORK
-  TRENCHLESS SILT FENCE
-  INLET PROTECTION, SPEC. 3.07-1
-  CURB INLET PROTECTION, SPEC. 3.07-7



DEPARTMENT OF PARKS
AND RECREATION

Park Development Division
2100 Clarendon Boulevard, Suite 414
Arlington, VA 22201
Phone: 703.228.3332
Fax: 703.228.3328

ITB #23-DPR-ITBPW-450

#SWM 22-0224

Project Name and Location
**ARLINGTON
JUNCTION PARK**

FINAL PLAN

1051 SOUTH EADS STREET
ARLINGTON, VIRGINIA

Sheet Title
**EROSION &
SEDIMENT
CONTROL PLAN
PHASE 1**

Approval _____ Date _____

Design Supervisor _____

Revisions _____ Date _____

CEP#2 _____ 12/21/2022

CEP#3 _____ 06/02/2023

BUILDING PERMIT _____ 02/15/2023

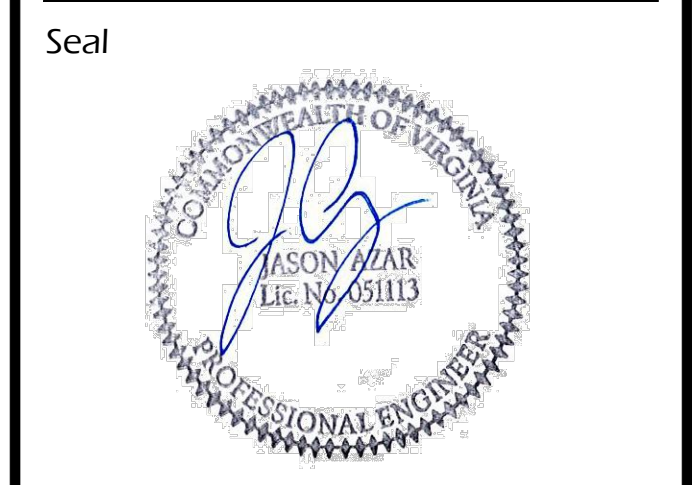
REVISED BUILDING PERMIT _____ 04/20/2023

CEP#4 _____ 07/21/2023

Designed: ME
Drawn: ME
Checked: JA

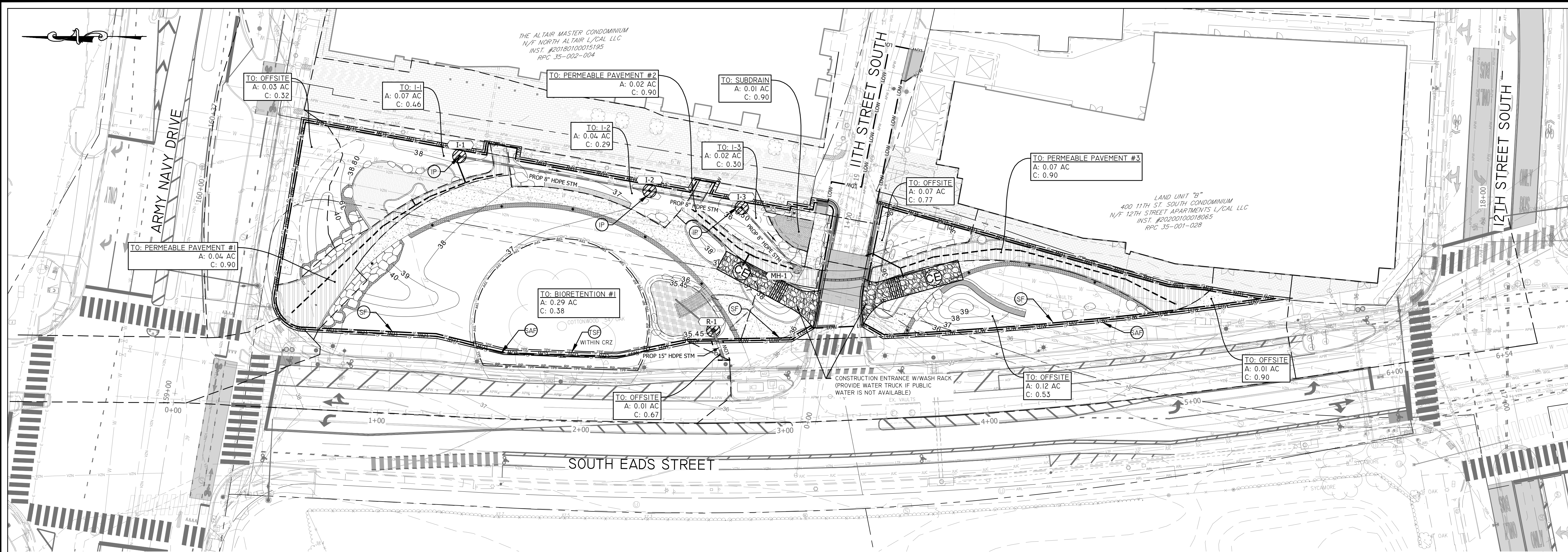
Filename: _____
Plotted: _____

Scale: AS SHOWN
Date: July 21, 2023



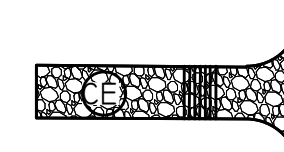
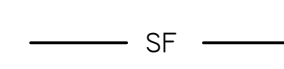
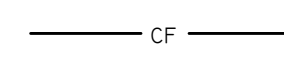
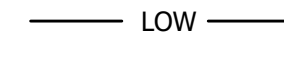
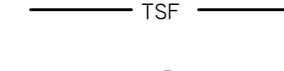









Sheet
C8.000

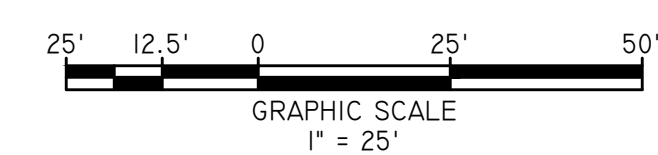
ARLINGTON COUNTY, VIRGINIA DEPARTMENT OF ENVIRONMENTAL SERVICES	
EROSION & SEDIMENT CONTROL PLAN PHASE 1 ARLINGTON JUNCTION PARK-CIVIL ENGINEERING PLAN 1051 SOUTH EADS STREET ARLINGTON COUNTY, VA	
SCALE: AS SHOWN	SHEET C8.000



EROSION & SEDIMENT CONTROL PHASE 2
SCALE: 1" = 25'

LEGEND:

-  TEMPORARY CONSTRUCTION ENTRANCE, SPEC. 3.02
-  SILT FENCE, SPEC. 3.05-2
-  SAFETY FENCE, SPEC. 3.01
-  LIMITS OF WORK
-  TRENCHLESS SILT FENCE
-  INLET PROTECTION, SPEC. 3.07-1
-  CURB INLET PROTECTION, SPEC. 3.07-7
-  TEMPORARY CONSTRUCTION ENTRANCE, SPEC. 3.02
-  SILT FENCE, SPEC. 3.05-2
-  SAFETY FENCE, SPEC. 3.01
-  LIMITS OF WORK
-  TRENCHLESS SILT FENCE
-  INLET PROTECTION, SPEC. 3.07-1
-  CURB INLET PROTECTION, SPEC. 3.07-7



DEPARTMENT OF PARKS AND RECREATION
Park Development Division
2100 Clarendon Boulevard, Suite 414
Arlington, VA 22201
Phone: 703.228.3332
Fax: 703.228.3328

ITB #23-DPR-ITBPW-450

#SWM 22-0224

Project Name and Location
ARLINGTON JUNCTION PARK

FINAL PLAN

1051 SOUTH EADS STREET
ARLINGTON, VIRGINIA

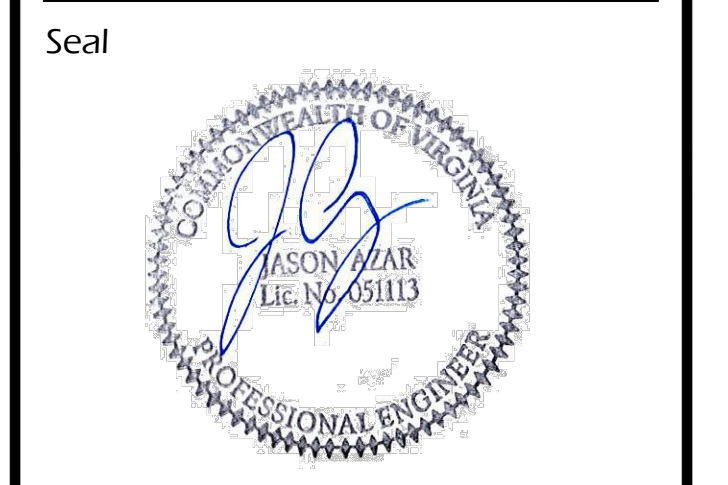
Sheet Title
EROSION & SEDIMENT CONTROL PLAN PHASE 2

Approval	Date
Design Supervisor	
Revisions	Date
CEP#2	12/21/2022
CEP#3	06/02/2023
BUILDING PERMIT	02/15/2023
REVISED BUILDING PERMIT	04/20/2023
CEP#4	07/21/2023

Designed: ME
Drawn: ME
Checked: JA

Filename:
Plotted:

Scale: AS SHOWN
Date: July 21, 2023



Sheet
C8.010

ARLINGTON COUNTY, VIRGINIA
DEPARTMENT OF ENVIRONMENTAL SERVICES

EROSION & SEDIMENT CONTROL PLAN PHASE 2
ARLINGTON JUNCTION PARK-CIVIL ENGINEERING PLAN
1051 SOUTH EADS STREET
ARLINGTON COUNTY, VA

SCALE: AS SHOWN SHEET C8.010

EROSION AND SEDIMENT CONTROL PLAN NARRATIVE

PROJECT DESCRIPTION:
THIS PROJECT IS LOCATED IN ARLINGTON COUNTY, VIRGINIA. THE SITE IS LOCATED AT THE INTERSECTION OF SOUTH EADS STREET AND ARMY NAVY DRIVE IN ARLINGTON, VA 22202. THIS PROJECT PROPOSES TO REDEVELOP AN EXISTING EMPTY LOT INTO A NEW PARK, NEW WALKWAYS, BENCHES, LANDSCAPED AREAS, AND REQUIRED STORMWATER MANAGEMENT FACILITIES WILL BE CONSTRUCTED. THE TOTAL AREA OF THE PARK IS PROPOSED BE APPROXIMATELY 0.71 ACRES.

EXISTING SITE CONDITIONS:
THE EXISTING PROJECT AREA CONSISTS OF AN EMPTY LOT WITH GRASS COVERAGE THROUGHOUT.

DATE OF CONSTRUCTION:
CONSTRUCTION IS ANTICIPATED TO START AT TIME OF PLAN APPROVAL.

ADJACENT PROPERTIES:
BOUNDED BY ARMY NAVY DRIVE TO THE NORTH SOUTH EADS STREET TO THE WEST, 12TH STREET S TO THE SOUTH, AND AN APARTMENT BUILDING TO THE EAST.

OFF-SITE AREAS:
THE PROJECT WILL NOT REQUIRE ANY OFF-SITE LAND DISTURBING ACTIVITIES.

CRITICAL AREAS:
THE PROJECT DOES NOT IMPACT ANY CRITICAL AREAS.

SOILS:
SEE THIS SHEET FOR SOILS MAP AND INFORMATION

STRUCTURAL PRACTICES:

- 3.02 CONSTRUCTION ENTRANCE** – A TEMPORARY ENTRANCE IN ACCORDANCE WITH THE STATE STANDARDS WITH A LENGTH OF AT LEAST 75 LINEAR FEET WILL BE PROVIDED AT THE LOCATION SHOWN ON THE PLANS WHICH IS AT THE APPROXIMATE POINT OF THE PAVED ACCESS AND A WOVEN FILTER FABRIC UNDERLAYER IS REQUIRED. THE ENTRANCE SHALL BE MAINTAINED IN GOOD REPAIR AND SHALL PROVIDE REMOVAL OF DEBRIS FROM VEHICLES PRIOR TO LEAVING THE CONSTRUCTION SITE. WATER FOR THE WASH RACK TO BE PROVIDED BY A WATER TANK TRUCK IF PUBLIC WATER IS NOT AVAILABLE.
- 3.01 SAFETY FENCE** – WILL BE INSTALLED AS A PROTECTIVE BARRIER TO PREVENT PUBLIC ACCESS TO THE CONSTRUCTION SITE AND E&S CONTROL MEASURES.
- 3.05 SILT FENCE BARRIER** – SILT FENCE SEDIMENT BARRIERS WITHOUT WIRE SUPPORT SHALL BE INSTALLED AS SHOWN ON THE APPROVED PLAN TO FILTER SEDIMENT LADEN RUNOFF FROM THE CONSTRUCTION AREA.
- 3.38 TREE PRESERVATION AND PROTECTION** – WILL BE CONSTRUCTED AT TREE SAVE AREAS TO ENSURE THE SURVIVAL OF DESIRABLE TREES WHERE THEY WILL BE EFFECTIVE FOR EROSION AND SEDIMENT CONTROL, WATERSHED PROTECTION, LANDSCAPE BEAUTIFICATION, DUST AND POLLUTION CONTROL, NOISE REDUCTION, SHADE AND OTHER ENVIRONMENTAL BENEFITS WHILE THE LAND IS BEING CONVERTED FROM FOREST TO URBAN TYPE USES.

SEDIMENT CONTROL PROGRAM:
PHASE 1A EROSION CONTROL

- THE INITIAL CONTROL MEASURES SHALL BE AS FOLLOWS:
1. CONSTRUCTION ENTRANCE SHALL BE INSTALLED AS INDICATED IN THE PLAN INSIDE THE CONSTRUCTION FENCE. MUD AND DEBRIS SHALL BE WASHED FROM ALL VEHICLES AND EQUIPMENT BEFORE LEAVING THE SITE AND BE CAPTURED BY SETTLING AREA.
- SUPER SILT FENCE AND SILT FENCE SHALL BE INSTALLED WHERE INDICATED IN THE PLAN. THE SILT FENCE SHALL BE TEMPORARILY REMOVED FOR CONSTRUCTION ACTIVITIES, BUT SHALL BE INSTALLED AT THE END OF EACH WORK DAY.
- AREAS INSIDE THE CONSTRUCTION FENCE WITH PRIVACY SCREENING WILL BE USED AS STAGING/LAYDOWN AREAS AS MAY BE NEEDED FOR CONSTRUCTION.
- AFTER ESTABLISHMENT OF ALL INITIAL CONTROL MEASURES, THE CONTRACTOR SHALL PROCEED WITH DEMOLITION AND INSTALLATION OF IMPROVEMENTS UNDER PHASE 1B OF THE EROSION CONTROL PROGRAM.

- PHASE 1B
- INSTALL SEDIMENT TRAP PER CONSTRUCTION PLAN.
 - AFTER COMPLETING THE PHASE 1A ACTIVITIES, THE CONTRACTOR SHALL BEGIN DEMOLITION OF THE EXISTING BUILDING.
 - ALL DEMOLITION OF THE EXISTING BUILDING AND PAVEMENT AREAS WILL BE PERFORMED UNDER THIS PHASE.

- PHASE 2
- THIS PHASE WILL INCLUDE THE GRADING, UTILITY INSTALLATION, BMP FACILITY CONSTRUCTION AND ALL OTHER PARK IMPROVEMENTS. THE REMAINING SITE AREA WILL BE STABILIZED WITH GRASS.
 - ANY EXISTING EROSION CONTROL ITEMS WILL BE REMOVED UPON APPROVAL OF THE INSPECTOR AND ANY RESULTING DISTURBED AREAS WILL BE STABILIZED WITH GRASS.

- GENERAL EROSION AND SEDIMENT CONTROL NOTES:**
- ES-1 UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CONSTRUCTED AND MAINTAINED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK AND VIRGINIA REGULATIONS 4VAC50-30 EROSION AND SEDIMENT CONTROL REGULATIONS.
- ES-2 THE PLAN APPROVING AUTHORITY MUST BE NOTIFIED ONE WEEK PRIOR TO THE RE-CONSTRUCTION CONFERENCE, ONE WEEK PRIOR TO COMMENCEMENT OF LAND DISTURBING ACTIVITY, AND ONE WEEK PRIOR TO THE FINAL INSPECTION.
- ES-3 ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO OR AS THE FIRST STEP IN CLEARING.
- ES-4 A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
- ES-5 PRIOR TO COMMENCING LAND DISTURBING ACTIVITIES IN AREAS OTHER THAN INDICATED ON THESE PLANS (INCLUDING, BUT NOT LIMITED TO, OFF-SITE BORROW OR WASTE AREAS), THE CONTRACTOR SHALL SUBMIT SUPPLEMENTARY EROSION CONTROL PLAN TO THE OWNER FOR REVIEW AND APPROVAL BY THE PLAN APPROVING AUTHORITY.
- ES-6 THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE PLAN APPROVING AUTHORITY.
- ES-7 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.
- ES-8 THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURE PERIODICALLY 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.

GENERAL LAND CONSERVATION NOTES:

- NO AREA WILL REMAIN DENuded FOR MORE THAN 7 CALENDAR DAYS UNLESS OTHERWISE AUTHORIZED BY THE DIRECTOR OR HIS AGENT.
- ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO OR AS THE FIRST STEP IN GRADING. FIRST AREAS TO BE CLEARED ARE TO BE THOSE REQUIRED FOR THE PERIMETER CONTROLS.
- ALL STORM SEWER LINES NOT IN STREETS ARE TO BE MULCHED AND SEEDED WITHIN 5 DAYS AFTER BACKFILL. NO MORE THAN 500 FEET ARE TO BE OPEN AT ANY ONE TIME.
- DURING CONSTRUCTION, ALL STORM SEWER INLETS WILL BE PROTECTED BY INLET PROTECTION DEVICES, MAINTAINED AND MODIFIED AS REQUIRED BY CONSTRUCTION PROGRESS.
- ANY DISTURBED AREA NOT COVERED BY NOTE #1 ABOVE AND NOT PAVED, SODDED OR BUILT UPON BY NOVEMBER 1ST, OR DISTURBED AFTER THAT DATE, SHALL BE MULCHED WITH HAY OR STRAW MULCH AT THE RATE OF 2 TONS PER ACRE AND OVER-SEEDED NO LATER THAN MAY 15TH.
- AT THE COMPLETION OF CONSTRUCTION PROJECT AND PRIOR TO BOND RELEASE, ALL TEMPORARY SEDIMENT CONTROLS SHALL BE REMOVED AND ALL DENuded AREAS SHALL BE STABILIZED. ARLINGTON COUNTY INSPECTOR TO APPROVE REMOVAL OF ALL TEMPORARY SILTATION MEASURES

MAINTENANCE PROGRAM:
THE SITE SUPERINTENDENT OR HIS OR HER REPRESENTATIVE SHALL MAKE A VISUAL INSPECTION OF ALL MECHANICAL CONTROLS AND NEWLY STABILIZED AREAS (I.E. SEEDED AND MULCHED AND/OR SODDED AREAS) ON A DAILY BASIS, ESPECIALLY AFTER A HEAVY RAINFALL EVENT TO INSURE THAT ALL CONTROLS ARE MAINTAINED AND PROPERLY FUNCTIONING. ANY DAMAGED CONTROLS SHALL BE REPAIRED PRIOR TO THE END OF THE WORKDAY INCLUDING RE-SEEDED AND MULCHING OR RE-SODDING, IF NECESSARY.

STORMWATER MANAGEMENT:
THIS PROJECT DISTURBS APPROXIMATELY 0.3015 ACRES. THE PROJECT SITE IS WITHIN A FLOODPLAIN. IT CONNECTS TO THE EXISTING ON-SITE STORM SEWER SYSTEM WHICH DISCHARGES INTO FOUR MILE RUN.

MS4 NOTE:
ONLY THE FOLLOWING NON-STORMWATER DISCHARGES ARE AUTHORIZED BY ARLINGTON COUNTY'S MS4 PERMIT, UNLESS THE STATE WATER CONTROL BOARD, THE VIRGINIA SOIL AND WATER CONSERVATION BOARD (BOARD), OR ARLINGTON COUNTY DETERMINES THE DISCHARGE TO BE A SIGNIFICANT SOURCE OF POLLUTANTS TO SURFACE WATERS:

WATER LINE FLUSHING; LANDSCAPE IRRIGATION; DIVERTED STREAM FLOWS; RISING GROUND WATERS; UNCONTAMINATED GROUND WATER INFILTRATION (AS DEFINED AT 40 CFR 35.2005(20)); UNCONTAMINATED PUMPED GROUND WATER; DISCHARGES FROM POTABLE WATER SOURCES; FOUNDATION DRAINS; AIR CONDITIONING CONDENSATION; IRRIGATION WATER; SPRINGS; WATER FROM CRAWL SPACE PUMPS; FOOTING DRAINS; LAWN WATERING; INDIVIDUAL RESIDENTIAL CAR WASHING; FLOWS FROM RIPARIAN HABITATS AND WETLANDS; DECHLORINATED SWIMMING POOL DISCHARGES; DISCHARGES OR FLOWS FROM FIRE FIGHTING; AND, OTHER ACTIVITIES GENERATING DISCHARGES IDENTIFIED BY THE DEPARTMENT OF ENVIRONMENTAL QUALITY AS NOT REQUIRING VPDES AUTHORIZATION. APPROPRIATE CONTROLS MUST BE IMPLEMENTED TO PREVENT ANY NON-STORMWATER DISCHARGES NOT INCLUDED ON THE ABOVE LIST (E.G., CONCRETE WASH WATER, PAINT WASH WATER, VEHICLE WASH WATER, DETERGENT WASH WATER, ETC.) FROM BEING DISCHARGED INTO ARLINGTON COUNTY'S MS4 SYSTEM, WHICH INCLUDES THE CURB AND GUTTER SYSTEM, AS WELL AS CATCH BASINS AND OTHER STORM DRAIN INLETS, OR STREAM NETWORK. PER CHAPTER 26 OF THE ARLINGTON COUNTY CODE, IT SHALL BE UNLAWFUL FOR ANY PERSON TO DISCHARGE DIRECTLY OR INDIRECTLY INTO THE STORM SEWER SYSTEM OR STATE WATERS, ANY SUBSTANCE LIKELY, IN THE OPINION OF THE COUNTY MANAGER, TO HAVE AN ADVERSE EFFECT ON THE STORM SEWER SYSTEM OR STATE WATERS.

POLLUTION PREVENTION NOTES:

- ONLY THE FOLLOWING NON-STORMWATER DISCHARGES ARE AUTHORIZED BY ARLINGTON COUNTY'S MS4 PERMIT, UNLESS THE STATE WATER CONTROL BOARD, THE VIRGINIA SOIL AND WATER CONSERVATION BOARD (BOARD), OR ARLINGTON COUNTY DETERMINES THE DISCHARGE TO BE A SIGNIFICANT SOURCE OF POLLUTANTS TO SURFACE WATERS: WATER LINE FLUSHING; LANDSCAPE IRRIGATION; DIVERTED STREAM FLOWS; RISING GROUND WATERS; UNCONTAMINATED GROUND WATER INFILTRATION (AS DEFINED AT 40 CFR 35.2005(20)); UNCONTAMINATED PUMPED GROUND WATER; DISCHARGES FROM POTABLE WATER SOURCES; FOUNDATION DRAINS; AIR CONDITIONING CONDENSATION; IRRIGATION WATER; SPRINGS; WATER FROM CRAWL SPACE PUMPS; FOOTING DRAINS; LAWN WATERING; INDIVIDUAL RESIDENTIAL CAR WASHING; FLOWS FROM RIPARIAN HABITATS AND WETLANDS; DECHLORINATED SWIMMING POOL DISCHARGES; DISCHARGES OR FLOWS FROM FIRE FIGHTING; AND, OTHER ACTIVITIES GENERATING DISCHARGES IDENTIFIED BY THE DEPARTMENT OF ENVIRONMENTAL QUALITY AS NOT REQUIRING VPDES AUTHORIZATION.
- APPROPRIATE CONTROLS MUST BE IMPLEMENTED TO PREVENT ANY NON-STORMWATER DISCHARGES NOT INCLUDED ON THE ABOVE LIST (E.G., CONCRETE WASH WATER, PAINT WASH WATER, VEHICLE WASH WATER, DETERGENT WASH WATER, ETC.) FROM BEING DISCHARGED INTO ARLINGTON COUNTY'S MS4 SYSTEM, WHICH INCLUDES THE CURB AND GUTTER SYSTEM, AS WELL AS CATCH BASINS AND OTHER STORM DRAIN INLETS, OR STREAM NETWORK.
- PER CHAPTER 26 OF THE ARLINGTON COUNTY CODE, IT SHALL BE UNLAWFUL FOR ANY PERSON TO DISCHARGE DIRECTLY OR INDIRECTLY INTO THE STORM SEWER SYSTEM OR STATE WATERS, ANY SUBSTANCE LIKELY, IN THE OPINION OF THE COUNTY MANAGER, TO HAVE AN ADVERSE EFFECT ON THE STORM SEWER SYSTEM OR STATE WATERS.

TABLE 3.31-B
(Revised June 2003)
TEMPORARY SEEDING SPECIFICATIONS QUICK REFERENCE FOR ALL REGIONS

APPLICATION DATES	SPECIES	APPLICATION RATES
Sept. 1 - Feb. 15	50/50 Mix of Annual Ryegrass (lolium multi-florum) & Cereal (Winter) Rye (Secale cereale)	50-100 (lbs/acre)
Feb. 16 - Apr. 30	Annual Ryegrass (lolium multi-florum)	60 - 100 (lbs/acre)
May 1 - Aug. 31	German Millet	50 (lbs/acre)

FERTILIZER & LIME

- Apply 10-10-10 fertilizer at a rate of 450 lbs. / acre (or 10 lbs. / 1,000 sq. ft.)
- Apply Pulverized Agricultural Limestone at a rate of 2 tons/acre (or 90 lbs. / 1,000 sq. ft.)

NOTE:

- A soil test is necessary to determine the actual amount of lime required to adjust the soil pH of site.
- Incorporate the lime and fertilizer into the top 4 – 6 inches of the soil by disking or by other means.
- When applying Slowly Available Nitrogen, use rates available in *Erosion & Sediment Control Technical Bulletin # 4, 2003 Nutrient Management for Development Sites* at <http://www.dcr.state.va.us/sw/e&s.htm#pubs>

TABLE 3.32-D
(Revised June 2003)
PERMANENT SEEDING SPECIFICATIONS FOR PIEDMONT AREA

LAND USE	SPECIES	APPLICATION PER ACRE
Minimum Care Lawn (Commercial or Residential)	Tall Fescue ¹	95-100%
	Perennial Ryegrass	0-5%
	Kentucky Bluegrass ¹	0-5%
TOTAL: 175-200 lbs.		
High-Maintenance Lawn	Tall Fescue ¹	128 lbs.
	Red Top Grass or Creeping Red Fescue	2 lbs.
	Seasonal Nurse Crop ²	20 lbs.
TOTAL: 150 lbs.		
General Slope (3:1 or less)	Tall Fescue ¹	108 lbs.
	Red Top Grass or Creeping Red Fescue	2 lbs.
	Seasonal Nurse Crop ²	20 lbs.
TOTAL: 150 lbs.		
Low-Maintenance Slope (Steeper than 3:1)	Tall Fescue ¹	108 lbs.
	Red Top Grass or Creeping Red Fescue	2 lbs.
	Seasonal Nurse Crop ²	20 lbs.
TOTAL: 150 lbs.		

1 - When selecting varieties of turfgrass, use the Virginia Crop Improvement Association (VCIA) recommended turfgrass variety list. Quality seed will bear a label indicating that they are approved by VCIA. A current turfgrass variety list is available at the local County Extension office or through VCIA at 804-746-4884 or at <http://sudan.ces.vt.edu/html/TurfTurfPublications/publications2.html>

2 - Use seasonal nurse crop in accordance with seeding dates as stated below:

February 16 th - April	Annual Rye
May 1 st - August 15 th	Foxtail Millet
August 16 th - October	Annual Rye
November - February 15 th	Winter Rye

3 - Substitute *Setaria lepedeza* for *Crownvetch* east of Farmville, VA (May through September use hulled seed, all other periods, use unhulled *Setaria*). If *Flattop* is used, increase rate to 30 lbs./acre. If *Weeping Lovegrass* is used, include in any slope or low maintenance mixture during warmer seeding periods, increase to 30-40

FERTILIZER & LIME

- Apply 10-20-10 fertilizer at a rate of 800 lbs. / acre (or 12 lbs. / 1,000 sq. ft.)
- Apply Pulverized Agricultural Limestone at a rate of 2 tons/acre (or 90 lbs. / 1,000 sq. ft.)

NOTE:

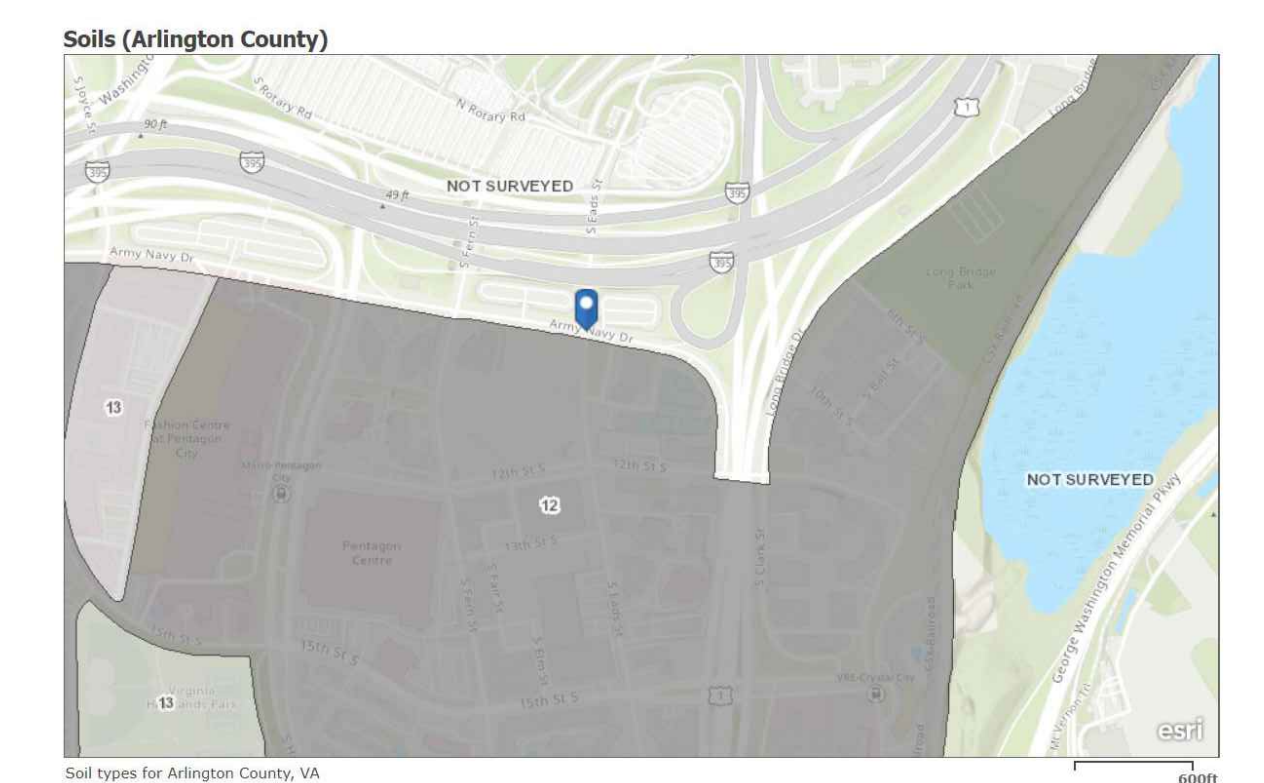
- A soil test is necessary to determine the actual amount of lime required to adjust the soil pH of site.
- Incorporate the lime and fertilizer into the top 4 – 6 inches of the soil by disking or by other means.
- When applying Slowly Available Nitrogen, use rates available in *Erosion & Sediment Control Technical Bulletin # 4, 2003 Nutrient Management for Development Sites* at <http://www.dcr.state.va.us/sw/e&s.htm#pubs>

12 Urban land-Udorthents complex, 2 to 15 percent slopes
This mapping unit consists of areas where more than 85 percent of the surface is Urban land, covered by buildings, asphalt, concrete, or other impervious materials. The other 15 percent consists of areas of deep to very deep, rather level to moderately sloping, well and moderately well drained soils. The Urban land and Udorthents are so intermingled it was not practical to map them separately. This complex occurs throughout the survey area but is largely located in the Rosslyn-Ballston and Crystal City areas. This unit is about 85 percent Urban land, 10 percent Udorthents, and 5 percent other soils.

The Udorthents consist of material that has been graded, cut, filled, or otherwise disturbed during urbanization. The disturbed material is loamy and generally reflects the soils in the adjacent area.

Included in this mapping unit are small areas of soils that have not been disturbed. Also included are moderately steep and steep slopes.

It is not practical to examine nor attempt to identify the soil or soil-like material of this unit.



_____ date

Qianqian Li, P.E.
ESC Program Administrator
Department of Environmental Services
2100 Clarendon Boulevard, Suite 813
Arlington, Virginia 22201

Re: Erosion and Sediment Control Permit Application for:

_____ street address

_____ lot, block, section subdivision

_____ permit number

Dear Mrs. Li:

I hereby certify that I accept the responsibilities of Responsible Land Disturber for the above referenced project. I understand that these responsibilities include:

- Reviewing the erosion and sedimentation (E&S) plan for the project.
- Walking the site prior to construction to identify critical areas.
- Conducting a pre-construction briefing with earth moving and site contractors to present the E&S plan and highlight the presence of critical areas, the limits of clearing and the required E&S controls and tree protection measures to be installed. Call 703-228-0760 to schedule pre-construction meeting.
- Regularly inspecting the site during construction to ensure that all E&S controls are functioning and are adequate to address erosion and sedimentation. Inspect the site 48 hours after a runoff-generating storm, and provide a copy of the inspection findings to the county.
- Reporting to the owner the presence inadequate or non functioning E&S controls when they are observed.
- Ensuring that temporary soil stabilization is applied within 7 days to areas denuded that will remain undisturbed for longer than 14 days. Permanent stabilization shall be applied to areas that are to be left dormant for more than one year.
- Calling (703) 228-0760 at least 80 hours before demolishing any structure.

I may be reached at _____ with questions about this plan or my execution of the duties of
_____ telephone number
Responsible Land Disturber.

Sincerely,

_____ signed

_____ name printed


_____ professional registration (type and number)

Pre-Storm Erosion and Sediment Control Checklist

Per Erosion and Sediment Control General Note 6, the Contractor is responsible for the installation and maintenance of any additional erosion and sediment control (ESC) measures necessary to prevent erosion and sedimentation as determined by the County. Controls and measures shall be modified as needed to ensure only clean water is discharged from the site.

The following actions shall be taken prior to storm events with predicted heavy and/or large volume rainfall to prevent sediment discharges from a construction site. A typical summer thunderstorm is an example of a storm event with predicted heavy and/or large volume rainfall.

- Perimeter controls**
- Silt fence shall be checked for undermining, holes, or deterioration of the fabric. Fencing shall be replaced immediately if the fabric is damaged or worn. Silt fence must be trenched into the ground per state specifications (Std & Spec 3.09).
 - Wooden stakes or steel posts shall be properly secured upright into the ground. Damaged posts or stakes must be replaced.
 - Sediment that has accumulated against the silt fence should be removed. Accumulated sediment must be removed when the level reaches one-half the height of the fencing.
 - Hay bales or a stone berm should be placed across the construction entrance to prevent sediment from leaving the construction site.
- Exposed slopes, soil, and stockpiles**
- Exposed slopes not at the final stabilization phase shall be covered with 2" layer of straw, plastic sheeting, or erosion control matting. Cover material shall be properly secured/anchored.
 - Controls shall be installed to prevent concentrated flow down an exposed slope. Berms or diversion dikes shall be installed at the top of cut / exposed slopes to direct storm flow around the disturbed area.
 - Exposed slopes at the final stabilization phase shall be stabilized using slope stabilization practices such as soil stabilization blankets or matting as specified in the Virginia Erosion and Sediment Control Handbook (VESCH) Std & Spec 3.36. Blankets or mats must be properly secured and anchored to the slope using staples, pins, or stakes.
 - Recently seeded areas shall be protected by straw, matting, or soil stabilization blankets to prevent seeding from being washed away.
 - Stockpiled soil and other loose materials that can be washed away shall be covered with a tarp, plastic sheeting, or other stabilization matting. The cover must be properly secured / anchored down to prevent it from being blown off and exposing materials to rain. Controls such as hay bales or booms should be placed along the perimeter of the stock pile (downhill side).

ARLINGTON COUNTY, VIRGINIA DEPARTMENT OF ENVIRONMENTAL SERVICES		
EROSION & SEDIMENT CONTROL NOTES ARLINGTON JUNCTION PARK-CIVIL ENGINEERING PLAN 1051 SOUTH EADS STREET ARLINGTON COUNTY, VA		
SCALE: AS SHOWN	SHEET C8.020	
Plotted: _____ Scale: AS SHOWN Date: July 21, 2023 Seal  Sheet <h1 style="text-align: center;">C8.020</h1>		



DEPARTMENT OF PARKS AND RECREATION

Park Development Division
2100 Clarendon Boulevard, Suite 414
Arlington, VA 22201
Phone: 703.228.3332
Fax: 703.228.3328

ITB #23-DPR-ITBPW-450

#SWM 22-0224

Project Name and Location

ARLINGTON JUNCTION PARK

FINAL PLAN

1051 SOUTH EADS STREET

ARLINGTON, VIRGINIA

Sheet Title

EROSION & SEDIMENT CONTROL NOTES

Approval _____ Date _____

Design Supervisor _____

Revisions _____ Date _____

CEP#2 12/21/2022

CEP#3 06/02/2023

BUILDING PERMIT 02/15/2023

REVISED BUILDING PERMIT 04/20/2023

CEP#4 07/21/2023

Designed: ME
Drawn: ME
Checked: JA

Filename: _____
Plotted: _____

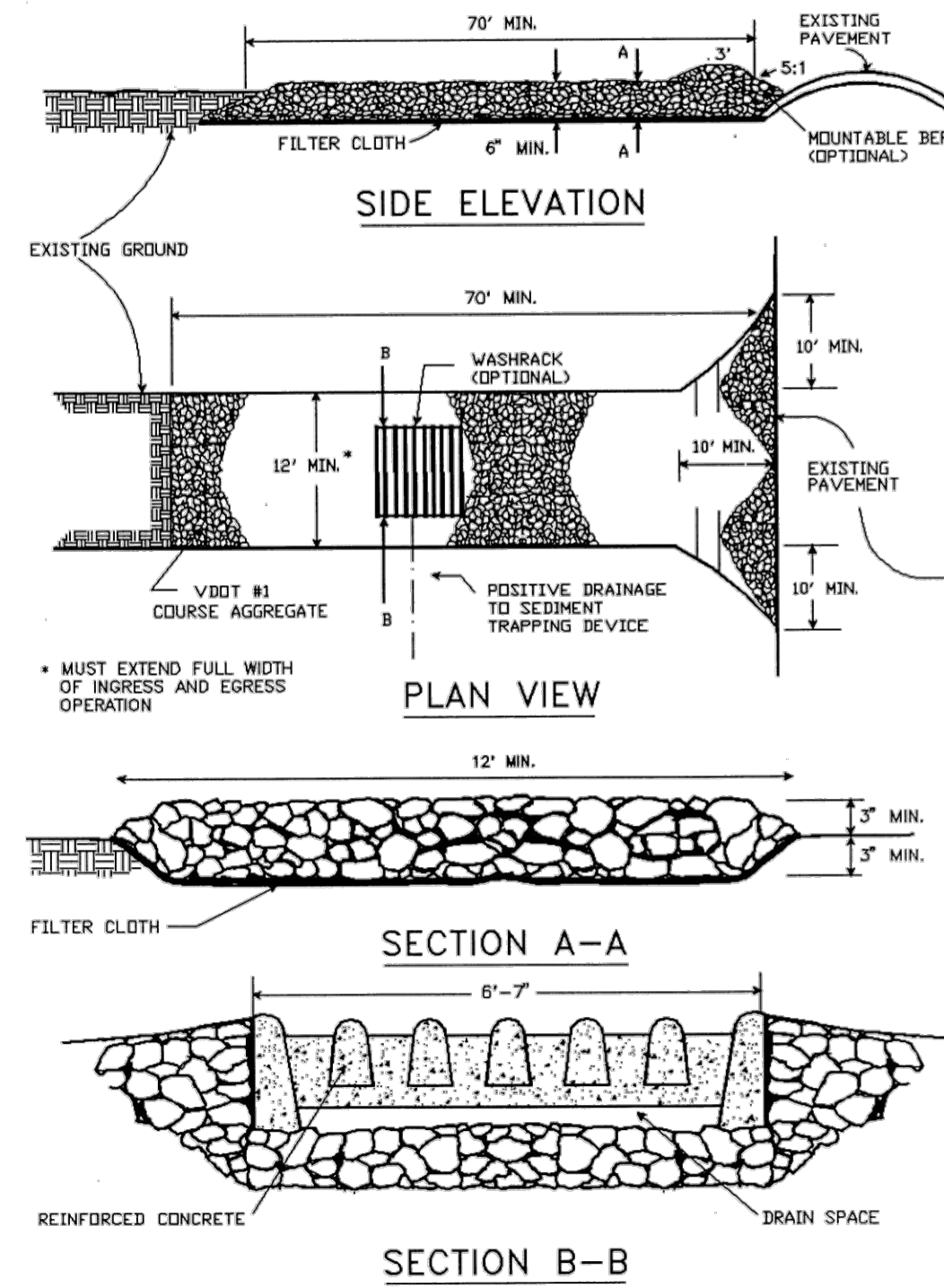
Scale: AS SHOWN
Date: July 21, 2023

Seal

Sheet

C8.020

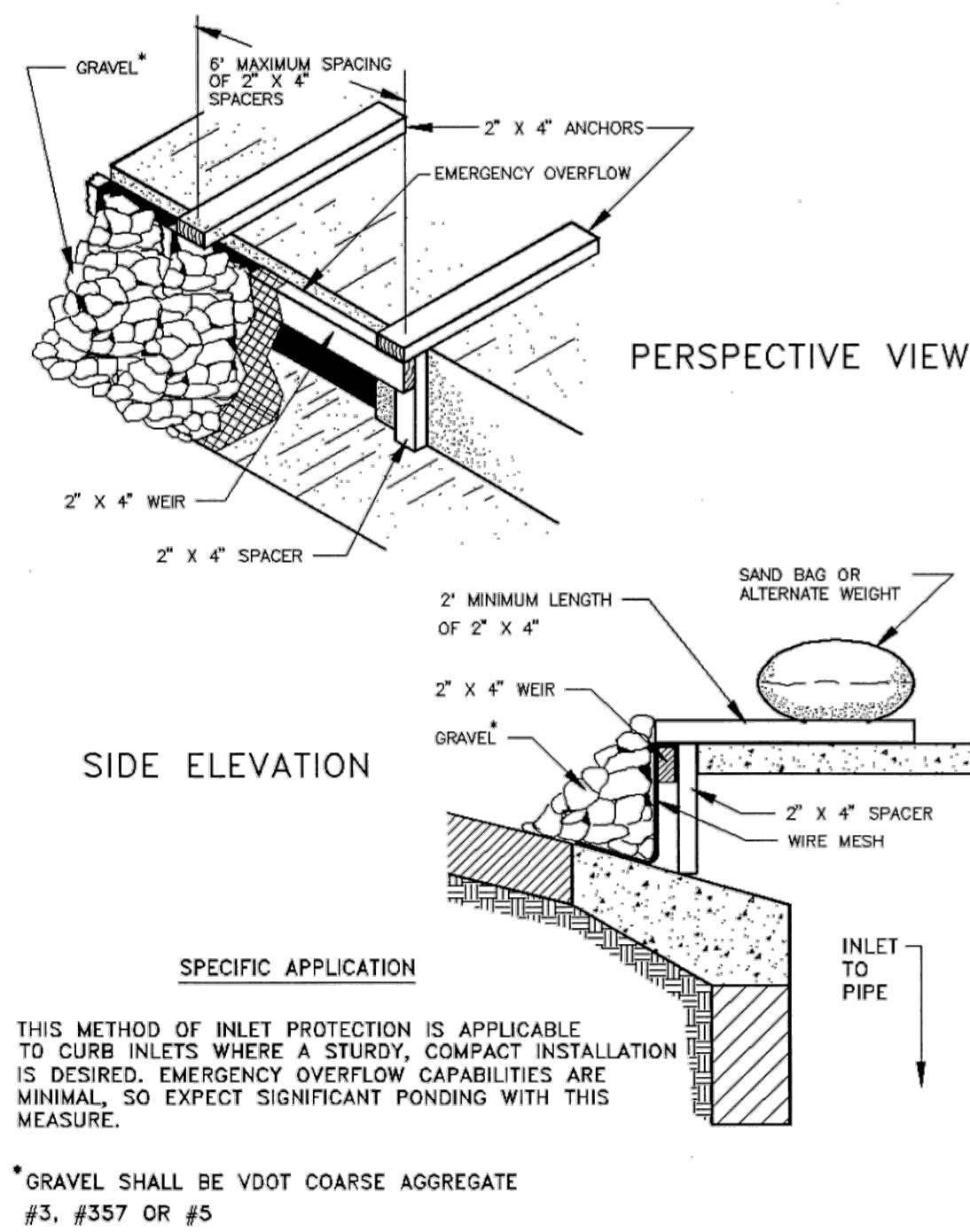
STONE CONSTRUCTION ENTRANCE



Source: Adapted from 1983 Maryland Standards for Soil Erosion and Sediment Control, and Va. DSWC Plate 3.02-1

CE CONSTRUCTION ENTRANCE N.T.S.

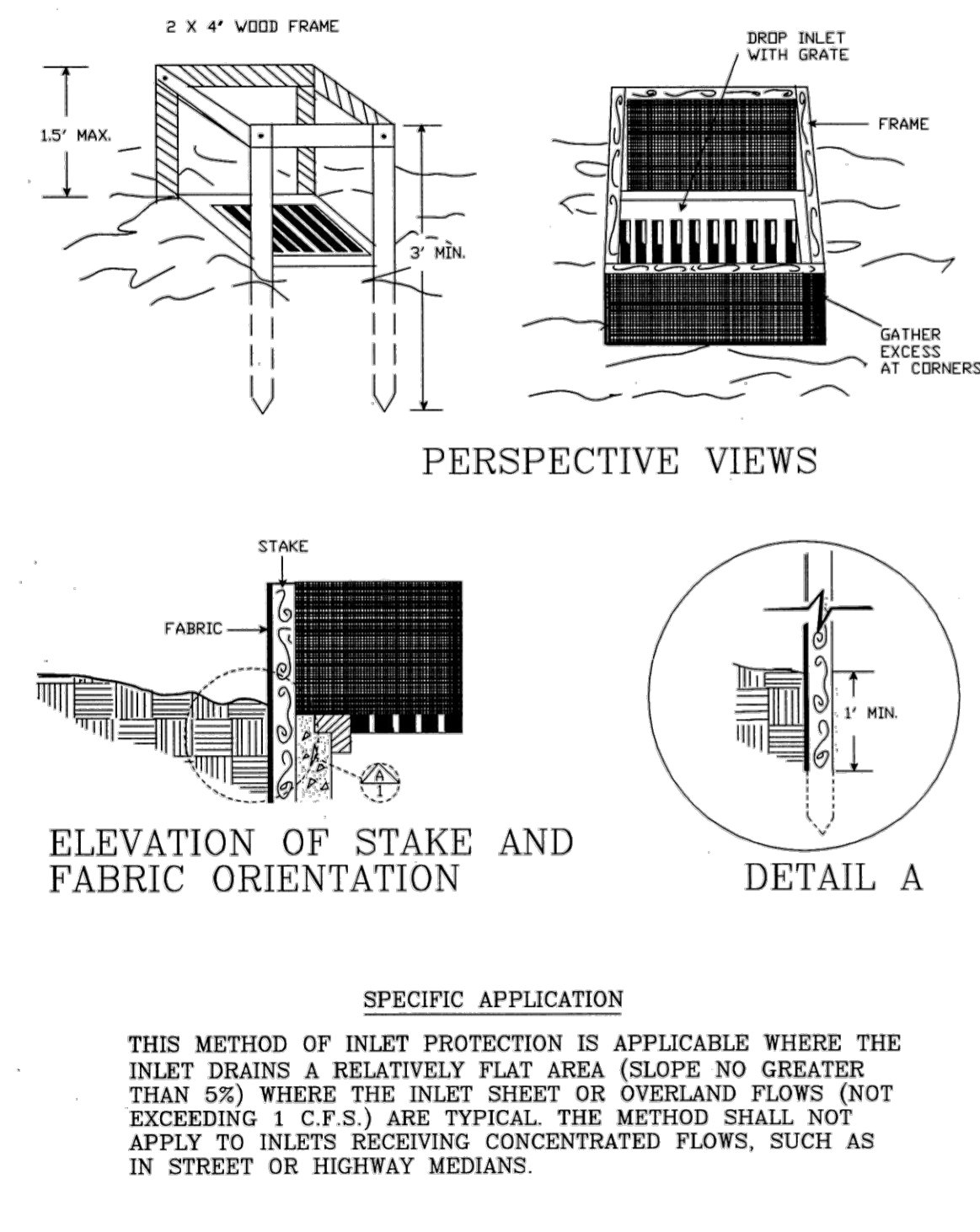
CURB INLET PROTECTION WITH 2-INCH X 4-INCH WOODEN WEIR



Source: 1983 Maryland Standards and Specifications for Soil Erosion and Sediment Control, and USDA-SCS Plate 3.07-7

IP CURB INLET PROTECTION N.T.S.

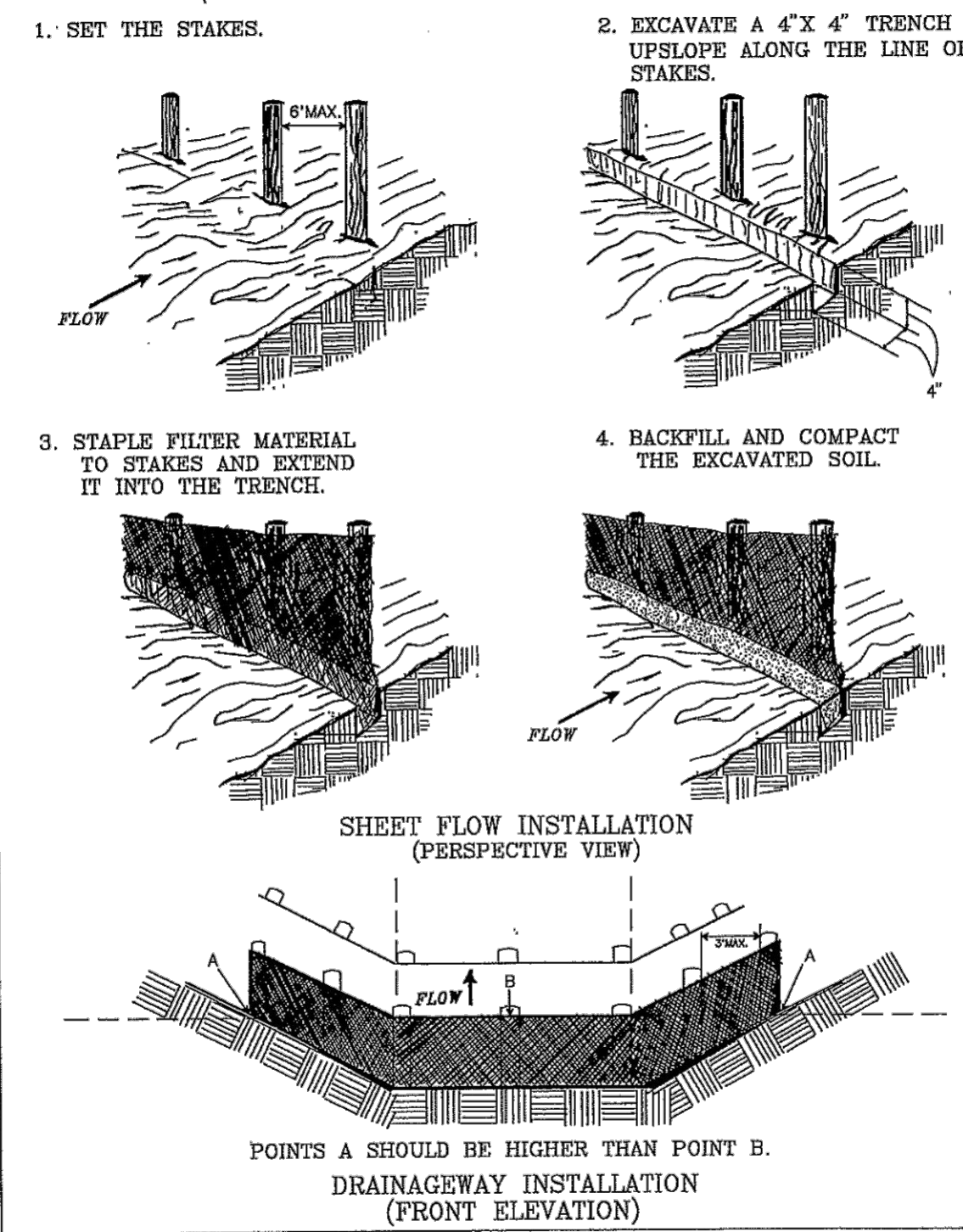
SILT FENCE DROP INLET PROTECTION



Source: N.C. Erosion and Sediment Control Planning and Design Manual, 1988 Plate 3.07-1

IP INLET PROTECTION N.T.S.

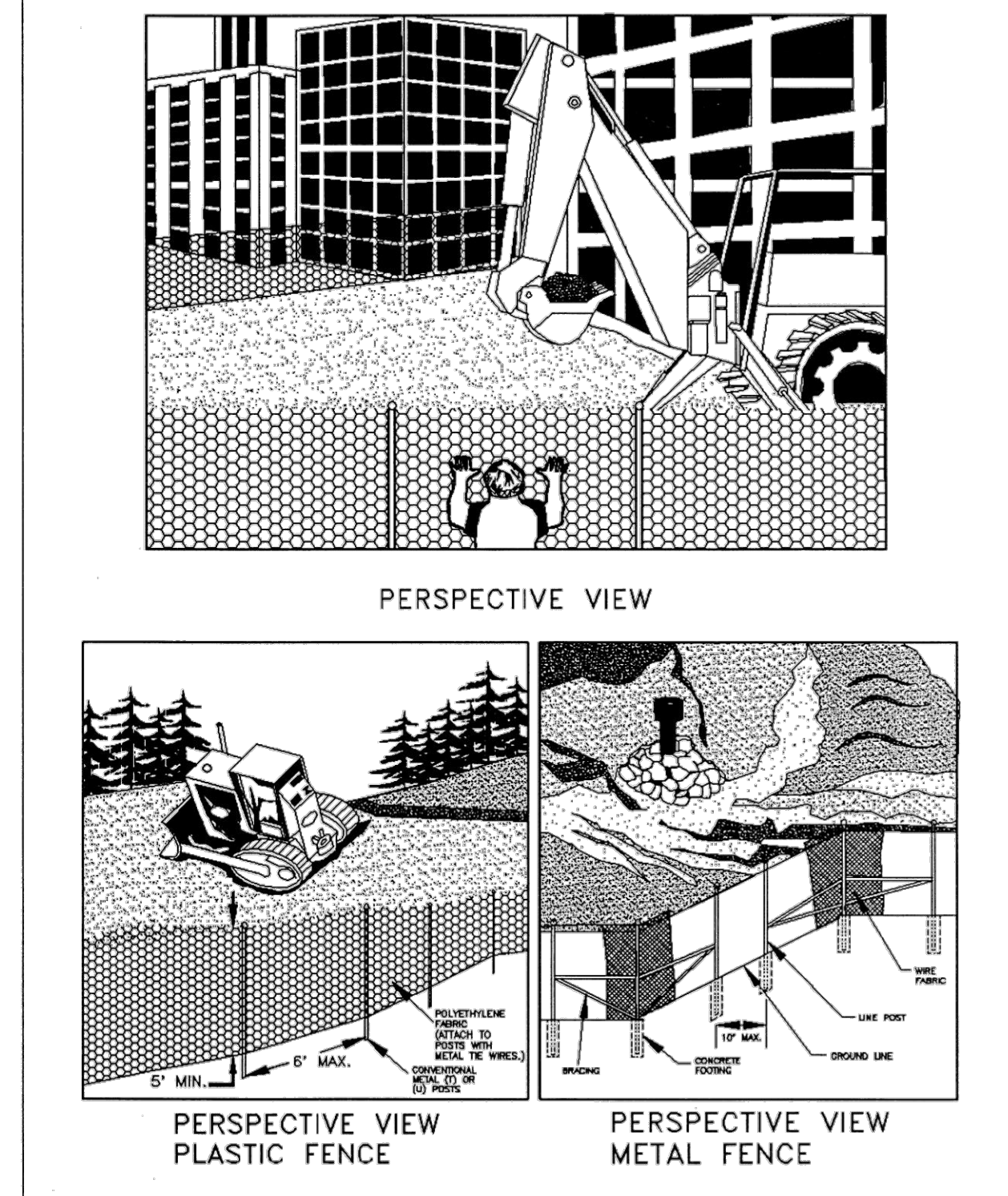
CONSTRUCTION OF A SILT FENCE (WITHOUT WIRE SUPPORT)



Source: Adapted from Installation of Straw and Fabric Filter Barriers for Sediment Control, Sherwood and Wyant Plate 3.05-2

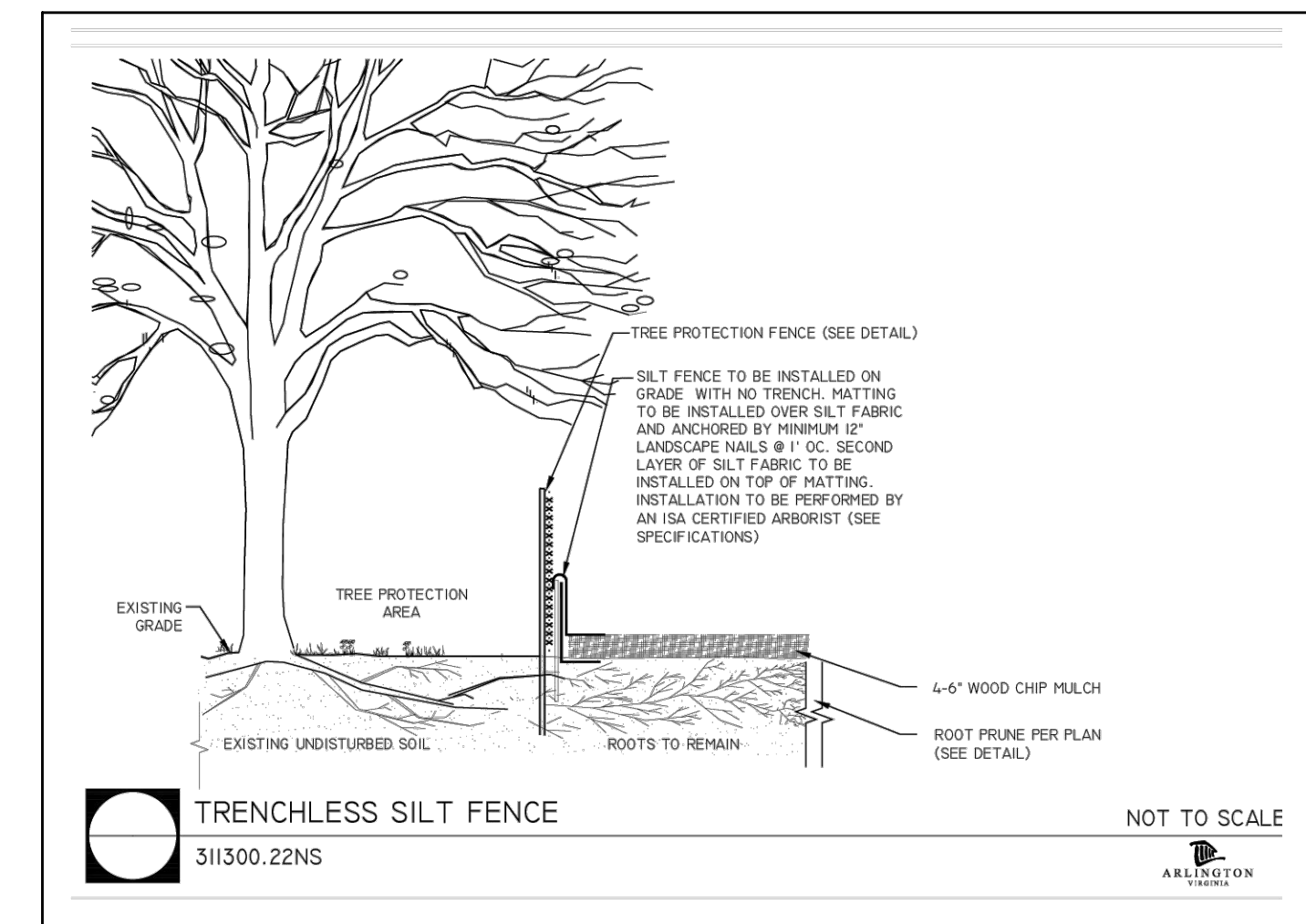
SF SILT FENCE N.T.S.

SAFETY FENCE



Source: Adapted from Conwed Plastics and VDOT Road and Bridge Standards Plate 3.01-1

SAF SAFETY FENCE N.T.S.



TSF TRENCHLESS SILT FENCE N.T.S.



DEPARTMENT OF PARKS AND RECREATION
Park Development Division
2100 Clarendon Boulevard, Suite 414
Arlington, VA 22201
Phone: 703.228.3332
Fax: 703.228.3328

ITB #23-DPR-ITBPW-450

#SWM 22-0224

Project Name and Location
ARLINGTON JUNCTION PARK

FINAL PLAN

1051 SOUTH EADS STREET
ARLINGTON, VIRGINIA

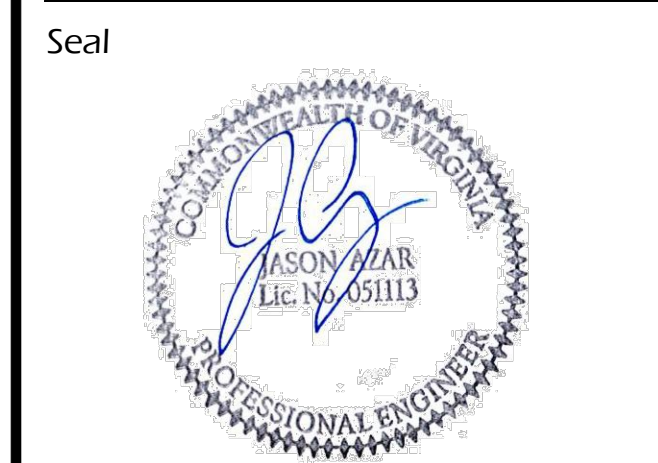
Sheet Title
EROSION & SEDIMENT CONTROL DETAILS

Approval	Date
Design Supervisor	
Revisions	Date
CEP#2	12/21/2022
CEP#3	06/02/2023
BUILDING PERMIT	02/15/2023
REVISED BUILDING PERMIT	04/20/2023
CEP#4	07/21/2023

Designed: ME
Drawn: ME
Checked: JA

Filename:
Plotted:

Scale: AS SHOWN
Date: July 21, 2023



Sheet
C8.030

ARLINGTON COUNTY, VIRGINIA
DEPARTMENT OF ENVIRONMENTAL SERVICES

EROSION & SEDIMENT CONTROL DETAILS
ARLINGTON JUNCTION PARK-CIVIL ENGINEERING PLAN
1051 SOUTH EADS STREET
ARLINGTON COUNTY, VA

SCALE: AS SHOWN SHEET C8.030

STORMWATER POLLUTION PREVENTION PLAN
ARLINGTON JUNCTION PARK

1.0 SWPPP Documents Located Onsite & Available for Review

SWPPP Document Type	Located Onsite & Available for Review?	
Registration Statement	<input type="checkbox"/> Yes	<input type="checkbox"/> NA
Notice of Coverage Letter	<input type="checkbox"/> Yes	<input type="checkbox"/> NA
Construction General Permit	<input type="checkbox"/> Yes	<input type="checkbox"/> NA
Pollution Prevention Plan	<input type="checkbox"/> Yes	<input type="checkbox"/> NA
Erosion & Sediment Control Plan (or agreement in lieu of)	<input type="checkbox"/> Yes	<input type="checkbox"/> NA
Stormwater Management Plan	<input type="checkbox"/> Yes	<input type="checkbox"/> NA

2.0 Authorized Non-Stormwater Discharges

Type of Authorized Non-Stormwater Discharge	Likely Present at Your Project Site?	
External buildings wash down	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Uncontaminated foundation or footing drains	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Uncontaminated excavation dewatering	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Landscape irrigation	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Others	<input type="checkbox"/> Yes	<input type="checkbox"/> No

3.0 Pollution Prevention Awareness

Employees will be given a "walk through" of the site identifying areas of possible pollution and will be shown Erosion and Sediment Controls and Pollution Prevention Practices (identified in Sections 4.0 and 5.0 of this SWPPP) that are applicable to their assigned job duties. A refresher meeting and "walk through" will be conducted on an as needed basis.

4.0 Erosion & Sediment Controls

Select all that apply	Erosion & Sediment Control	Estimated Installation Date	Estimated Removal Date	Responsible Party
<input checked="" type="checkbox"/>	Construction Entrance (Std. & Spec. 3.02)			Construction Activity Operator (See Cover Page of this SWPPP)
<input checked="" type="checkbox"/>	Silt Fence (Std. & Spec. 3.05)			
<input type="checkbox"/>	Culvert Inlet Protection (Std. & Spec. 3.08)			
<input type="checkbox"/>	Outlet Protection (Std. & Spec. 3.18)		NA	
<input checked="" type="checkbox"/>	Temporary Seeding (Std. & Spec. 3.31)	As required by 3.31	NA	
<input checked="" type="checkbox"/>	Permanent Seeding (Std. & Spec. 3.32)		NA	
<input checked="" type="checkbox"/>	Sodding (Std. & Spec. 3.33)		NA	
<input type="checkbox"/>	Mulching (Std. & Spec. 3.35)		NA	
<input checked="" type="checkbox"/>	Safety Fence (Std. & Spec. 3.01)			
<input checked="" type="checkbox"/>	Storm Drain Inlet Protection (Std. & Spec. 3.08)			
<input type="checkbox"/>	Dewatering (Std. & Spec. 3.26)			
<input type="checkbox"/>	Turbidity Curtain (Std. & Spec. 3.27)			
<input checked="" type="checkbox"/>	Tree Protection (Arlington County Std. & Spec.)			
<input type="checkbox"/>	Others			

STORMWATER POLLUTION PREVENTION PLAN
ARLINGTON JUNCTION PARK

5.0 Potential Sources of Pollution & Pollution Prevention Practices

Pollutant-Generating Activity	Likely Present at your Project Site?	Pollutants										Pollution Prevention Practice	Responsible Party
		Sediment	Nutrients	Heavy Metals	pH (acids and bases)	Pesticides & Herbicides	Oil & Grease	Bacteria & Viruses	Trash, Debris, Solids	Other Toxic Chemicals			
Clearing, grading, excavating, and un-stabilized areas	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	X									X	(1)	Construction Activity Operator (See Cover Page of this SWPPP)
Paving operations	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	X					X			X	(2)		
Concrete washout and cement waste	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			X	X					X	(3)		
Structure construction, stucco, painting, and cleaning	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			X	X					X	X	(4)	
Dewatering operations	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	X	X							X	(5)		
Material delivery and storage	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	X	X	X	X		X		X	X	X	(6)	
Material use during building process	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		X	X	X		X		X	X	(7)		
Solid waste disposal	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No								X	X	(8)		
Sanitary waste	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		X		X				X		(9)		
Landscaping operations	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	X	X			X			X	X	(10)		
Others [describe]	<input type="checkbox"/> Yes <input type="checkbox"/> No	[X]	[X]	[X]	[X]	[X]	[X]	[X]	[X]	[X]	(11)		

6.0 Stormwater Management Controls

Select all that apply	Stormwater Management Control	Estimated Installation Date	Responsible Party
<input type="checkbox"/>	Post-development Stormwater Management Controls provided by a Larger Common Plan of Development or Sale	NA	Common Plan Construction Activity Operator
<input type="checkbox"/>	Rooftop Disconnection		Construction Activity Operator (See Cover Page of this SWPPP)
<input type="checkbox"/>	Sheet flow to Vegetated Filter (1 or 2)		
<input type="checkbox"/>	Grass Channel		
<input type="checkbox"/>	Rainwater Harvesting		
<input checked="" type="checkbox"/>	Permeable Pavement (1 or 2)		
<input type="checkbox"/>	Infiltration (1 or 2)		Construction Activity Operator (See Cover Page of this SWPPP)
<input checked="" type="checkbox"/>	Bioretention (1 or 2)		
<input type="checkbox"/>	Others		
<input type="checkbox"/>	Exempted	NA	NA

Pollution Prevention Practices:

- Clearing, grading, excavating and un-stabilized areas** – Utilize erosion and sediment controls to prevent sediment laden or turbid runoff from leaving the construction site. Dispose of clearing debris at acceptable disposal sites. Apply permanent or temporary stabilization, sodding and/or mulching to denuded areas in accordance with the erosion and sediment control specifications and the general VPDES permit for discharges of stormwater from construction activities.
- Paving operations** – Cover storm drain inlets during paving operations and utilize pollution prevention materials such as drip pans and absorbent/dry for all paving machines to limit leaks and spills of paving materials and fluids.
- Concrete washout and cement waste** – Direct concrete wash water into a leak-proof container or leak-proof settling basin that is designed so that no overflows can occur due to inadequate sizing or precipitation. Hardened concrete wastes shall be removed and disposed of in a manner consistent with the handling of other construction wastes.
- Structure construction, stucco, painting and cleaning** – Enclose, cover or berm building material storage areas if susceptible to contaminated stormwater runoff. Conduct painting operations consistent with local air quality and OSHA regulations. Mix paint indoors, in a containment area or in a flat unpaved area. Prevent the discharge of soaps, solvents, detergents and wash water from construction materials, including the clean-up of stucco paint, form release oils and curing compounds.
- Dewatering operations** – Construction site dewatering from building footings or other sources may not be discharged without treatment. Sediment laden or turbid water shall be filtered, settled or similarly treated prior to discharge.
- Material delivery and storage** – Designate areas of the construction site for material delivery and storage. Place near construction entrances, away from waterways, and avoid transport near drainage paths or waterways.
- Material use during building process** – Use materials only where and when needed to complete the construction activity. Follow manufacturer's instructions regarding uses, protective equipment, ventilation, flammability and mixing of chemicals.
- Solid waste disposal** – Designate a waste collection area on the construction site that does not receive a substantial amount of runoff from upland areas and does not drain directly to a waterway. Ensure that containers have lids so they can be covered before periods of rain, and keep containers in a covered area whenever possible. Schedule waste collection to prevent the containers from overflowing.
- Sanitary waste** – Prevent the discharge of sanitary waste by providing convenient and well-maintained portable sanitary facilities. Locate sanitary facilities in a convenient location away from waterways.
- Landscaping operations** – Maintain as much existing vegetation as practicable. Apply permanent or temporary stabilization, sodding and/or mulching to denuded areas in accordance with the erosion and sediment control specifications and the general VPDES permit for discharges of stormwater from construction activities. Apply nutrients in accordance with manufacturer's recommendations and not during rainfall events.
- Others** –

7.0 Spill Prevention & Response

Most spills can be cleaned up following manufacturer specifications. Absorbent/soil dry, sealable containers, plastic bags, and shovels/brooms are suggested minimum spill response items that should be available at this location.

- 1st Priority: Protect all people
 2nd Priority: Protect equipment and property
 3rd Priority: Protect the environment

- Check for hazards (flammable material, noxious fumes, cause of spill) – if flammable liquid, turn off engines and nearby electrical equipment. **If serious hazards are present leave the area and call 911. LARGE SPILLS ARE LIKELY TO PRESENT A HAZARD.**
- Make Sure the spill area is safe to enter and that it does not pose an immediate threat to health or safety of any person.
- Stop the spill source.
- Call co-workers and supervisor for assistance and to make them aware of the spill and potential dangers.
- If possible, stop spill from entering drains (use absorbent or other material as necessary).
- Stop spill from spreading (use absorbent or other material)
- If spilled material has entered a storm sewer, contact locality's storm water department.
- Clean up spilled material according to manufacturer specifications, for liquid spills use absorbent materials and do not flush area with water.
- Properly dispose of cleaning materials and used absorbent material according to manufacturer specifications.

Emergency Contacts:

Normal Working Hours

DEQ Northern Regional Office 703-583-3800

Nights, Holidays & Weekends

VA Dept. of Emergency Management 804-674-2400
 24 Hour Reporting Service

Local Contacts

Arlington County Fire & Police 703-558-2222
 DES Water, Sewer, Streets 24-Hour Emergency 703-228-8555
 Washington Gas Emergency 703-750-1400



DEPARTMENT OF PARKS AND RECREATION

Park Development Division
 2100 Clarendon Boulevard, Suite 414
 Arlington, VA 22201
 Phone: 703.228.3332
 Fax: 703.228.3328

ITB #23-DPR-ITBPW-450

#SWM 22-0224

Project Name and Location

ARLINGTON JUNCTION PARK

FINAL PLAN

1051 SOUTH EADS STREET

ARLINGTON, VIRGINIA

Sheet Title

EROSION & SEDIMENT CONTROL SWPPP

Approval _____ Date _____

Design Supervisor _____

Revisions _____ Date _____

CEP#2 12/21/2022

CEP#3 06/02/2023

BUILDING PERMIT 02/15/2023

REVISED BUILDING PERMIT 04/20/2023

CEP#4 07/21/2023

Designed: ME

Drawn: ME

Checked: JA

Filename: _____

Plotted: _____

Scale: AS SHOWN

Date: July 21, 2023

Seal



Sheet

C8.040

ITB #23-DPR-ITBPW-450

#SWM 22-0224

Project Name and Location
**ARLINGTON
JUNCTION PARK**

FINAL PLAN

1051 SOUTH EADS STREET
ARLINGTON, VIRGINIA

Sheet Title
**BMP LAND
COVER MAP**

Approval _____ Date _____
Design Supervisor _____

Revisions	Date
CEP#2	12/21/2022
CEP#3	06/02/2023
BUILDING PERMIT	02/15/2023
REVISED BUILDING PERMIT	04/20/2023
CEP#4	07/21/2023

Designed: ME
Drawn: ME
Checked: JA

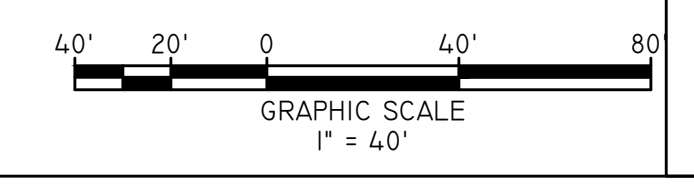
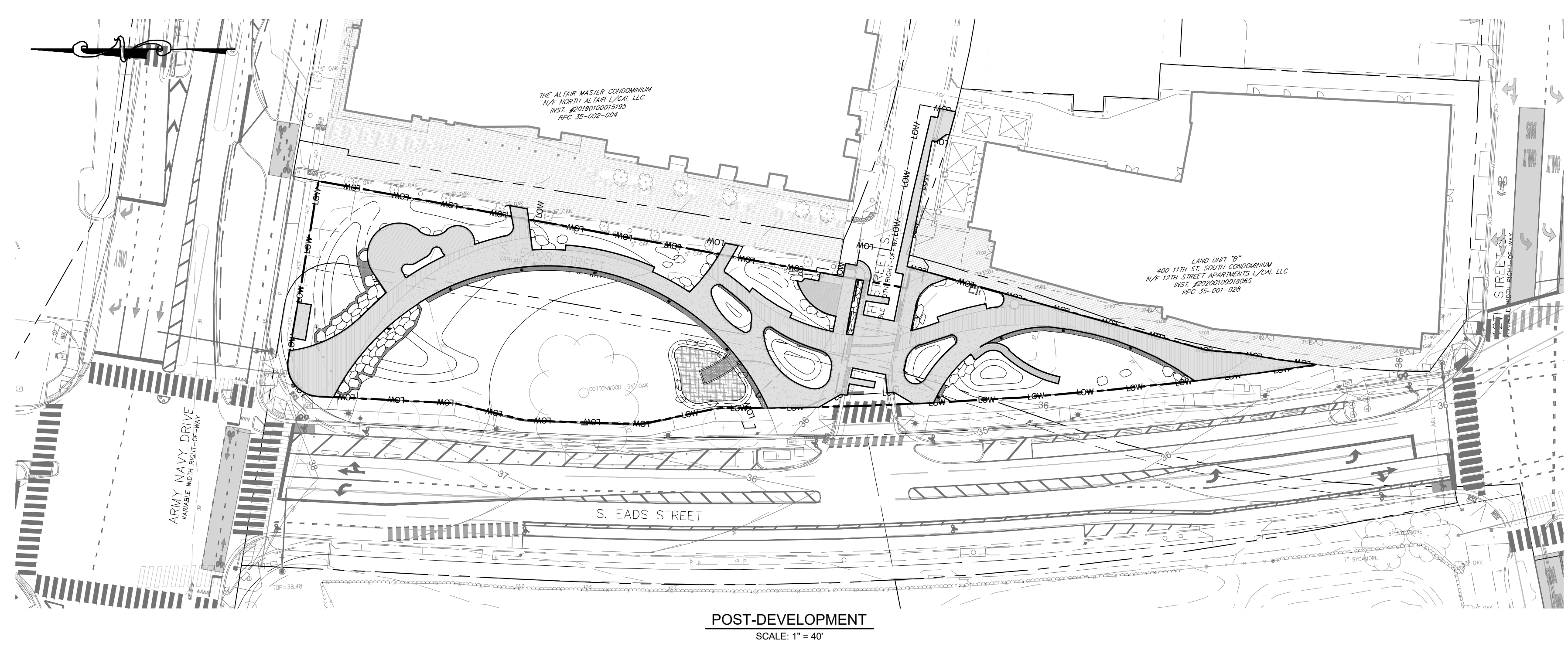
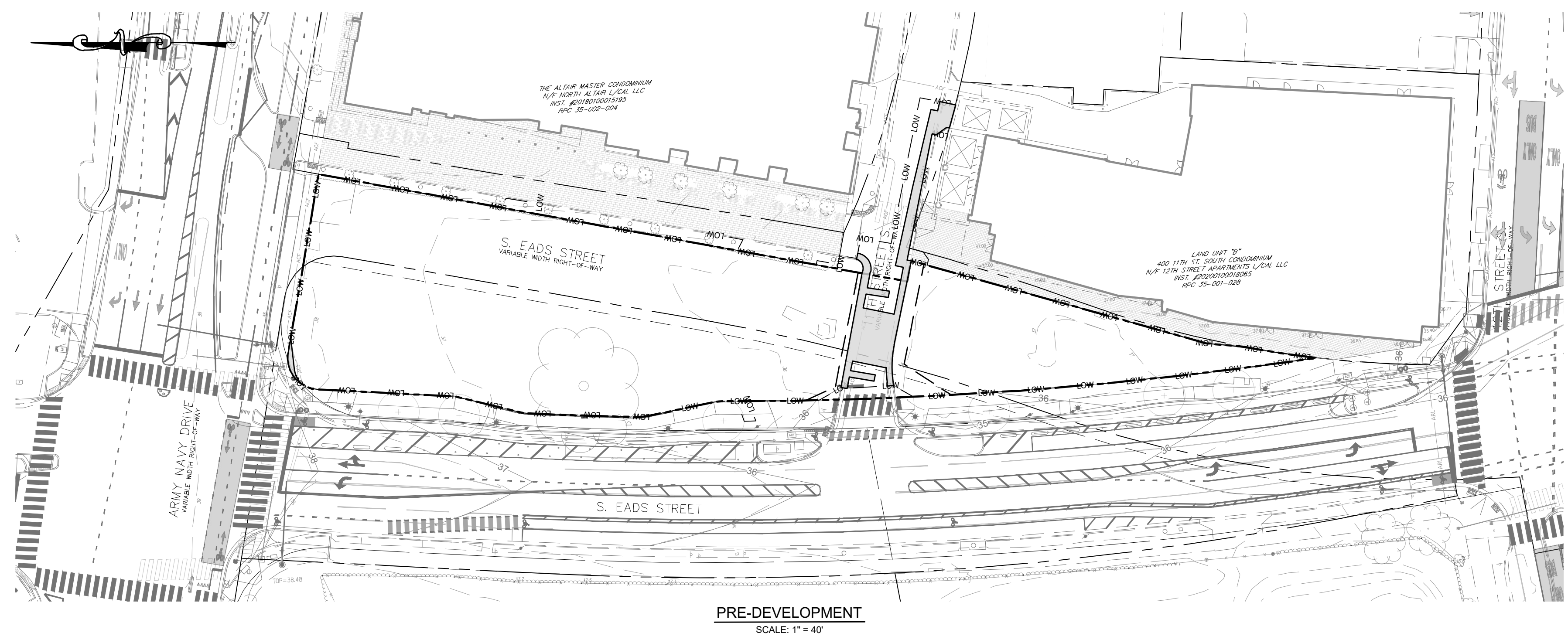
Filename:
Plotted:

Scale: AS SHOWN
Date: July 21, 2023

Seal



Sheet
C8.050



ARLINGTON COUNTY, VIRGINIA
DEPARTMENT OF ENVIRONMENTAL SERVICES

BMP LAND COVER MAP
ARLINGTON JUNCTION PARK-CIVIL ENGINEERING PLAN
1051 SOUTH EADS STREET
ARLINGTON COUNTY, VA

SCALE: AS SHOWN SHEET C8.050

BIORETENTION SPECIFICATIONS

SEQUENCE OF CONSTRUCTION

- CONSTRUCTION OF THE BIORETENTION AREA MAY ONLY BEGIN AFTER THE ENTIRE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED WITH VEGETATION. IT MAY BE NECESSARY TO BLOCK CERTAIN CURBS OR OTHER INLETS WHILE THE BIORETENTION AREA IS BEING CONSTRUCTED. THE PROPOSED SITE SHOULD BE CHECKED FOR EXISTING UTILITIES PRIOR TO ANY EXCAVATION.
- THE DESIGNER AND THE INSTALLER SHOULD HAVE A PRECONSTRUCTION MEETING, CHECKING THE BOUNDARIES OF THE CONTRIBUTING DRAINAGE AREA AND THE ACTUAL INLET ELEVATIONS TO ENSURE THEY CONFORM TO ORIGINAL DESIGN. SINCE OTHER CONTRACTORS MAY BE RESPONSIBLE FOR CONSTRUCTING PORTIONS OF THE SITE, IT IS QUITE COMMON TO FIND SUBTLE DIFFERENCES IN SITE GRADING, DRAINAGE AND PAVING ELEVATIONS THAT CAN PRODUCE HYDRAULICALLY IMPORTANT DIFFERENCES FOR THE PROPOSED BIORETENTION AREA. THE DESIGNER SHOULD CLEARLY COMMUNICATE, IN WRITING, ANY PROJECT CHANGES DETERMINED DURING THE PRECONSTRUCTION MEETING TO THE INSTALLER AND THE PLAN REVIEW/INSPECTION AUTHORITY.
- TEMPORARY E&S CONTROLS ARE NEEDED DURING CONSTRUCTION OF THE BIORETENTION AREA TO DIVERT STORMWATER AWAY FROM THE BIORETENTION AREA UNTIL IT IS COMPLETED. SPECIAL PROTECTION MEASURES SUCH AS EROSION CONTROL FABRICS MAY BE NEEDED TO PROTECT VULNERABLE SIDE SLOPES FROM EROSION DURING THE CONSTRUCTION PROCESS.
- ANY PRE-TREATMENT CELLS SHOULD BE EXCAVATED FIRST AND THEN SEALED TO TRAP SEDIMENTS.
- EXCAVATORS OR BACKHOES SHOULD WORK FROM THE SIDES TO EXCAVATE THE BIORETENTION AREA TO ITS APPROPRIATE DESIGN DEPTH AND DIMENSIONS. EXCAVATING EQUIPMENT SHOULD HAVE SCOOPS WITH ADEQUATE REACH SO THEY DO NOT HAVE TO SIT INSIDE THE FOOTPRINT OF THE BIORETENTION AREA. CONTRACTORS SHOULD USE A CELL CONSTRUCTION APPROACH IN LARGER BIORETENTION BASINS, WHEREBY THE BASIN IS SPLIT INTO 500 TO 1,000 SQ. FT. TEMPORARY CELLS WITH A 10-15 FOOT EARTH BRIDGE IN BETWEEN, SO THAT CELLS CAN BE EXCAVATED FROM THE SIDE.
- IT MAY BE NECESSARY TO RIP THE BOTTOM SOILS TO A DEPTH OF 6 TO 12 INCHES TO PROMOTE GREATER INFILTRATION.
- PLACE GEOTEXTILE FABRIC ON THE SIDES OF THE BIORETENTION AREA WITH A 6-INCH OVERLAP ON THE SIDES. IF A STONE STORAGE LAYER WILL BE USED, PLACE THE APPROPRIATE DEPTH OF #57 STONE ON THE BOTTOM, INSTALL THE PERFORATED UNDERDRAIN PIPE, PACK #57 STONE TO 3 INCHES ABOVE THE UNDERDRAIN PIPE, AND ADD APPROXIMATELY 3 INCHES OF CHOKER STONE/PEA GRAVEL AS A FILTER BETWEEN THE UNDERDRAIN AND THE SOIL MEDIA LAYER. IF NO STONE STORAGE LAYER IS USED, START WITH 6 INCHES OF #57 STONE ON THE BOTTOM, AND PROCEED WITH THE LAYERING AS DESCRIBED ABOVE.
- OBTAIN SOIL THE MEDIA FROM A QUALIFIED VENDOR, AND STORE IT ON AN ADJACENT IMPERVIOUS AREA OR PLASTIC SHEETING. AFTER VERIFYING THAT THE MEDIA MEETS THE SPECIFICATIONS, APPLY THE MEDIA IN 12-INCH LIFTS UNTIL THE DESIRED TOP ELEVATION OF THE BIORETENTION AREA IS ACHIEVED. WAIT A FEW DAYS TO CHECK FOR SETTLEMENT, AND ADD ADDITIONAL MEDIA, AS NEEDED, TO ACHIEVE THE DESIGN ELEVATION. UNDERDRAIN AND THE SOIL MEDIA LAYER. IF NO STONE STORAGE LAYER IS USED, START WITH 6 INCHES OF #57
- PREPARE PLANTING HOLES FOR ANY TREES AND SHRUBS, INSTALL THE VEGETATION, AND WATER ACCORDINGLY. INSTALL ANY TEMPORARY IRRIGATION.
- PLACE THE SURFACE COVER IN BOTH CELLS (MULCH, RIVER STONE OR TURF), DEPENDING ON THE DESIGN. IF COR OR JUTE MATTING WILL BE USED IN LIEU OF MULCH, THE MATTING WILL NEED TO BE INSTALLED PRIOR TO PLANTING (STEP 9), AND HOLES OR SLITS WILL HAVE TO BE CUT IN THE MATTING TO INSTALL THE PLANTS.
- INSTALL THE PLANT MATERIALS AS SHOWN IN THE LANDSCAPING PLAN, AND WATER THEM DURING WEEKS OF NO RAIN FOR THE FIRST TWO MONTHS.

NOTE: CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING BIORETENTION FACILITY THROUGHOUT ENTIRE CONSTRUCTION PHASE UNTIL PROJECT COMPLETION.

PERMEABLE PAVEMENT SPECIFICATIONS

SEQUENCE OF CONSTRUCTION

- CONSTRUCTION OF THE PERMEABLE PAVEMENT SHALL ONLY BEGIN AFTER THE ENTIRE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED. THE PROPOSED SITE SHOULD BE CHECKED FOR EXISTING UTILITIES PRIOR TO ANY EXCAVATION. DO NOT INSTALL THE SYSTEM IN RAIN OR SNOW, AND DO NOT INSTALL FROZEN AGGREGATE MATERIALS.
- AS NOTED ABOVE, TEMPORARY EROSION AND SEDIMENT (E&S) CONTROLS ARE NEEDED DURING INSTALLATION TO DIVERT STORMWATER AWAY FROM THE PERMEABLE PAVEMENT AREA UNTIL IT IS COMPLETED. SPECIAL PROTECTION MEASURES SUCH AS EROSION CONTROL FABRICS MAY BE NEEDED TO PROTECT VULNERABLE SIDE SLOPES FROM EROSION DURING THE EXCAVATION PROCESS. THE PROPOSED PERMEABLE PAVEMENT AREA MUST BE KEPT FREE FROM SEDIMENT DURING THE ENTIRE CONSTRUCTION PROCESS. CONSTRUCTION MATERIALS THAT ARE CONTAMINATED BY SEDIMENTS MUST BE REMOVED AND REPLACED WITH CLEAN MATERIALS.
- WHERE POSSIBLE, EXCAVATORS OR BACKHOES SHOULD WORK FROM THE SIDES TO EXCAVATE THE RESERVOIR LAYER TO ITS APPROPRIATE DESIGN DEPTH AND DIMENSIONS. FOR MICRO-SCALE AND SMALL-SCALE PAVEMENT APPLICATIONS, EXCAVATING EQUIPMENT SHOULD HAVE ARMS WITH ADEQUATE EXTENSION SO THEY DO NOT HAVE TO WORK INSIDE THE FOOTPRINT OF THE PERMEABLE PAVEMENT AREA (TO AVOID COMPACTION). CONTRACTORS CAN USE A CELL CONSTRUCTION APPROACH, WHEREBY THE PROPOSED PERMEABLE PAVEMENT AREA IS SPLIT INTO 500 TO 1000 SQ. FT. TEMPORARY CELLS WITH A 10 TO 15 FOOT EARTH BRIDGE IN BETWEEN, SO THAT CELLS CAN BE EXCAVATED FROM THE SIDE. EXCAVATED MATERIAL SHOULD BE PLACED AWAY FROM THE OPEN EXCAVATION SO AS TO NOT JEOPARDIZE THE STABILITY OF THE SIDE WALLS.
- THE NATIVE SOILS ALONG THE BOTTOM AND SIDES OF THE PERMEABLE PAVEMENT SYSTEM SHOULD BE SCARIFIED OR TILLED TO A DEPTH OF 3 TO 4 INCHES PRIOR TO THE PLACEMENT OF THE FILTER LAYER OR FILTER FABRIC. IN LARGE SCALE PAVING APPLICATIONS WITH WEAK SOILS, THE SOIL SUBGRADE MAY NEED TO BE COMPACTED TO 95% OF THE STANDARD PROCTOR DENSITY TO ACHIEVE THE DESIRED LOAD-BEARING CAPACITY. (NOTE: THIS EFFECTIVELY ELIMINATES THE INFILTRATION FUNCTION OF THE INSTALLATION, AND IT MUST BE ADDRESSED DURING HYDROLOGIC DESIGN.)
- THE FILTER LAYER SHOULD BE INSTALLED ON THE BOTTOM OF THE RESERVOIR LAYER AND, WHERE APPROPRIATE, FILTER FABRIC CAN BE PLACED ON THE SIDES.
- PROVIDE A MINIMUM OF 2 INCHES OF AGGREGATE ABOVE AND BELOW THE UNDERDRAINS. THE UNDERDRAINS SHOULD SLOPE DOWN TOWARDS THE OUTLET AT A GRADE OF 0.5% OR STEEPER. THE UP-DRAIN END OF UNDERDRAINS IN THE RESERVOIR LAYER SHOULD BE CAPPED. WHERE AN UNDERDRAIN PIPE IS CONNECTED TO A STRUCTURE, THERE SHOULD BE NO PERFORATIONS WITHIN 1 FOOT OF THE STRUCTURE. ENSURE THAT THERE ARE NO PERFORATIONS IN CLEAN-OUTS AND OBSERVATION WELLS WITHIN 1 FOOT OF THE SURFACE.
- SPREAD 6-INCH LIFTS OF THE APPROPRIATE CLEAN, WASHED STONE AGGREGATE. PLACE AT LEAST 4 INCHES OF ADDITIONAL AGGREGATE ABOVE THE UNDERDRAIN, AND THEN COMPACT IT USING A VIBRATORY ROLLER IN STATIC MODE UNTIL THERE IS NO VISIBLE MOVEMENT OF THE AGGREGATE. DO NOT CRUSH THE AGGREGATE WITH THE ROLLER.
- INSTALL OVER-DRAIN IF REQUIRED AND CONNECT INTO OUTLET CONVEYANCE SYSTEM.
- INSTALL THE DESIRED DEPTH OF THE BEDDING LAYER, DEPENDING ON THE TYPE OF PAVEMENT, AS FOLLOWS:
 - PERVIOUS CONCRETE: NO BEDDING LAYER IS USED.
 - POROUS ASPHALT: THE BEDDING LAYER FOR POROUS ASPHALT PAVEMENT CONSISTS OF 1 TO 2 INCHES OF CLEAN, WASHED ASTM D 448 NO.57 STONE. THE FILTER COURSE MUST BE LEVELED AND PRESSED (CHOKED) INTO THE RESERVOIR BASE WITH AT LEAST FOUR (4) PASSES OF A 10-TON STEEL DRUM STATIC ROLLER.
 - INTERLOCKING PAVERS: THE BEDDING LAYER FOR OPEN-JOINTED PAVEMENT BLOCKS SHOULD CONSIST OF 2 INCHES OF WASHED ASTM D 448 NO.8 STONE.
- INSTALL PAVING MATERIALS IN ACCORDANCE WITH MANUFACTURER OR INDUSTRY SPECIFICATIONS FOR THE PARTICULAR TYPE OF PAVEMENT.

NOTE: CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING PERMEABLE PAVEMENT FACILITIES THROUGHOUT ENTIRE CONSTRUCTION PHASE UNTIL PROJECT COMPLETION.

Material Specifications for Microbioretention. Below is the table of material specifications for microbioretentions.

Microbioretention Material Specifications		
Material	Specification	Notes
Filter Media Composition	Filter Media to contain: <ul style="list-style-type: none"> 80%-90% sand with >75% being coarse to very coarse 10%-20% soil fines 3%-5% organic matter in the form of plant based compost meeting Clearinghouse Design Specification #4, Section 6.5 	The volume of filter media based on 110% of the plan volume, to account for settling or compaction.
Filter Media Testing	Plant available P within Low+ (L+) to Medium (M) per DCR 2014 Nutrient Management Criteria (18-40 mg/kg P for the Mehlich III procedure) and CEC >5	The media must be procured from approved filter media vendors.
Mulch Layer	Use aged, shredded hardwood bark mulch	Lay a 2 to 3 inch layer on the surface of the filter bed.
Geotextile/Liner	Use a non-woven geotextile fabric with a flow rate of > 110 gal./min./sq. ft. (e.g., Geotex 351 or equivalent)	Apply only to the vertical sides and 2' on each side of the underdrain. Do not install at the bottom or between layers.
Choking Layer	3 inch layer of pea gravel or VDOT #8 stone which is laid over the underdrain stone.	
Stone Jacket for Underdrain and/or Storage Layer	1 inch stone should be double-washed and clean and free of all fines (e.g., VDOT #57 stone).	Minimum 6 inches or 12 inches if an underdrain is specified
Underdrains, Cleanouts, and Observation Wells	SCH. 40 PVC or equivalent, with 3/8-inch perforations at 6 inches on center, maximum of 3 rows of perforations; position each underdrain on a 1% or 2% slope located no more than 20 feet from the next pipe OR none if soil infiltration requirements met (Level II design).	All bioretentions are to have an observation well, cleanout or overflow pipe. Lay the perforated pipe under the length of the bioretention cell, and install non-perforated pipe as needed to connect with the storm drain system. Install T's and Y's as needed, depending on the underdrain configuration. Extend cleanout pipes to the surface with vented caps at the Ts and Ys.
Plant Materials	1 quart-sized perennial installed per 1-2 sf and 1 3-gallon shrub installed per 7.5 sf over entire ponding area from DEQ Specification 9: Table 9.5	For Level 1 designs – choose either herbaceous and/or shrubs For Level 2 designs – choose any 2 of herbaceous, shrubs, or trees

Berm. Fill for the berm and overflow weir shall consist of clean material free of organic matter, rubbish, frozen soil, snow, ice, particles with sizes larger than 3 inches, or other deleterious material. Fill shall be placed in 6-inch lifts and hand tamped. The berm shall be stabilized the same day it is installed, using either sod or matting. Matting must be plastic free/no plastic netting.

Material Specifications for Permeable Pavements. Below is the table of material specifications for permeable pavements.

Material Specifications for Underneath the Permeable Pavements		
Material	Specification	Notes
Bedding Layer	PC: None PICP: 2 in. depth of No. 8 stone above 4 inches of No. 57	ASTM D448 size No. 8 stone (e.g. 3/8 to 3/16 inch in size). ASTM D448 size No. 57 stone (e.g. 1 1/2 to 1/2 inch in size) should be washed, clean and free of all fines.
Reservoir Layer	PC: No. 57 stone PICP: No. 2 or 3 stone	PC: ASTM D448 size No. 57 stone (e.g. 1 1/2 to 1/2 inch in size) PICP: No. 2 Stone (e.g. 3 inch to 3/4 inch in size) or No. 3 Stone. Depth is based on the pavement structural and hydraulic requirements. Should be washed, clean and free of all fines.
Underdrain	Use 4 to 6 inch diameter perforated schedule 40 PVC pipe, with 3/8-inch perforations at 6 inches on center; each underdrain installed at a minimum 0.5% slope located 20 feet or less from the next pipe (or equivalent corrugated HDPE may be used for non-vehicular applications). Perforated pipe installed for the full length of the permeable pavement cell, and non-perforated pipe, as needed, is used to connect with the storm drain system. T's and Y's installed as needed, depending on the underdrain configuration. Extend cleanout pipes to the surface with caps.	
Filter Layer	The underlying native soils should be separated from the stone reservoir by a 6 to 8 inch layer of coarse sand (e.g. ASTM C 33, gradation) or use an appropriate filter fabric for the particular application based on AASHTO M288-06. At a minimum the fabric shall have a Flow Rate greater than 125 gpm/sq. ft. (ASTM D4491), and an Apparent Opening Size (AOS) equivalent to a US # 70 or # 80 sieve (ASTM D4751). The geotextile AOS selection is based on the percent passing the No. 200 sieve in "A" Soil subgrade, using FHWA or AASHTO selection criteria.	
Observation Well	Use a perforated 4 to 6 inch vertical schedule 40 PVC pipe (AASHTO M 252) with a cap, installed flush with the surface. Applications in vehicular areas shall have a metal cap. All applications shall have an observation well installed.	

*PC: Permeable Concrete, PICP: Permeable Interlocking Concrete Pavers with an open surface of 5-15%.

Maintenance Activities for Bioretention. The following is the list of maintenance activities for bioretention. The table is to be included on plans proposing bioretention.

Bioretention Maintenance Schedule	
Maintenance	Frequency
<ul style="list-style-type: none"> Spot weeding, erosion repair, trash removal, and mulch raking Add reinforcement planting to maintain the desired vegetation density Remove invasive plants using recommended control methods Stabilize the contributing drainage area to prevent erosion 	Twice during growing season As needed
<ul style="list-style-type: none"> Spring inspection and cleanup Supplement mulch to maintain a 2-3 inch layer Prune trees and shrubs Remove sediment in pre-treatment cells and inflow points Replace the mulch layer Inspected and certified by a professional licensed in the State of Virginia 	Annually Once every 2 to 3 years Every 3 years Once every 5 years

Maintenance Activities for Permeable Pavement. The following is the list of maintenance activities for permeable pavement. The table is to be included on plans proposing permeable pavement.

Permeable Pavement Maintenance Schedule	
Maintenance	Schedule
<ul style="list-style-type: none"> Check observation wells 3 days after a storm event in excess of 1/2 inch in depth. Standing water observed in the well after three days is a clear indication of clogging. Inspect the surface of the permeable pavement for evidence of sediment deposition, organic debris, staining or ponding that may indicate surface clogging. If any signs of clogging are noted, schedule a vacuum sweeper (no brooms or water spray) to remove deposited material. Inspect the structural integrity of the pavement surface, looking for signs of surface deterioration, such as slumping, cracking, spalling or broken pavers. Replace or repair affected areas, as necessary. Check inlets, pretreatment cells and any flow diversion structures for sediment buildup and structural damage. Note if any sediment needs to be removed. Inspect the condition of the observation well and make sure it is still capped. Generally, inspect any contributing drainage area for any controllable sources of sediment or erosion. 	Annually
<ul style="list-style-type: none"> Inspected and certified by a professional licensed in the State of Virginia 	Once every 5 years



DEPARTMENT OF PARKS AND RECREATION

Park Development Division
2100 Clarendon Boulevard, Suite 414
Arlington, VA 22201
Phone: 703.228.3332
Fax: 703.228.3328

ITB #23-DPR-ITBPW-450

#SWM 22-0224

Project Name and Location

ARLINGTON JUNCTION PARK

FINAL PLAN

1051 SOUTH EADS STREET

ARLINGTON, VIRGINIA

Sheet Title

BMP NOTES

Approval _____ Date _____

Design Supervisor _____

Revisions _____ Date _____

CEP#2 _____ 12/21/2022

CEP#3 _____ 06/02/2023

BUILDING PERMIT _____ 02/15/2023

REVISED BUILDING PERMIT _____ 04/20/2023

CEP#4 _____ 07/21/2023

Designed: ME

Drawn: ME

Checked: JA

Filename: _____

Plotted: _____

Scale: AS SHOWN

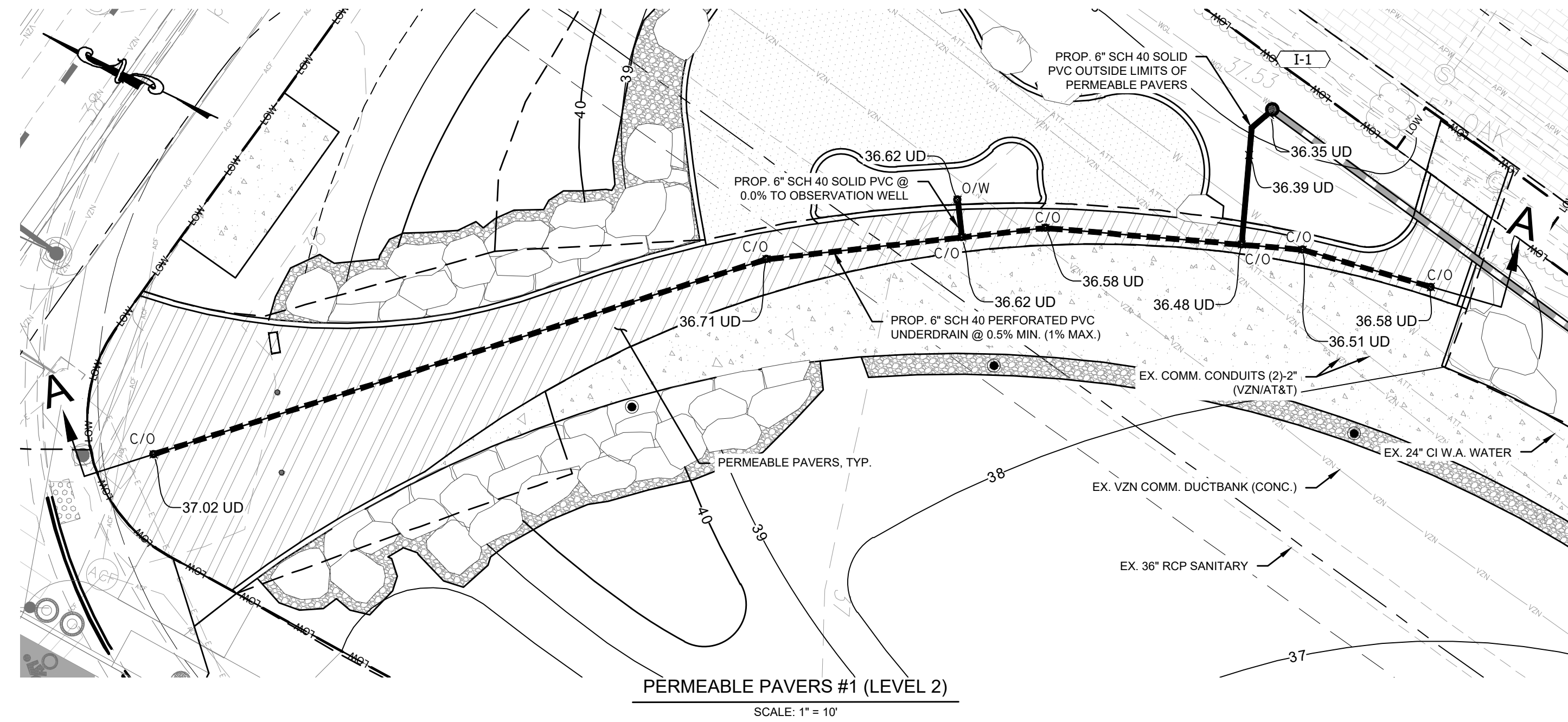
Date: July 21, 2023

Seal



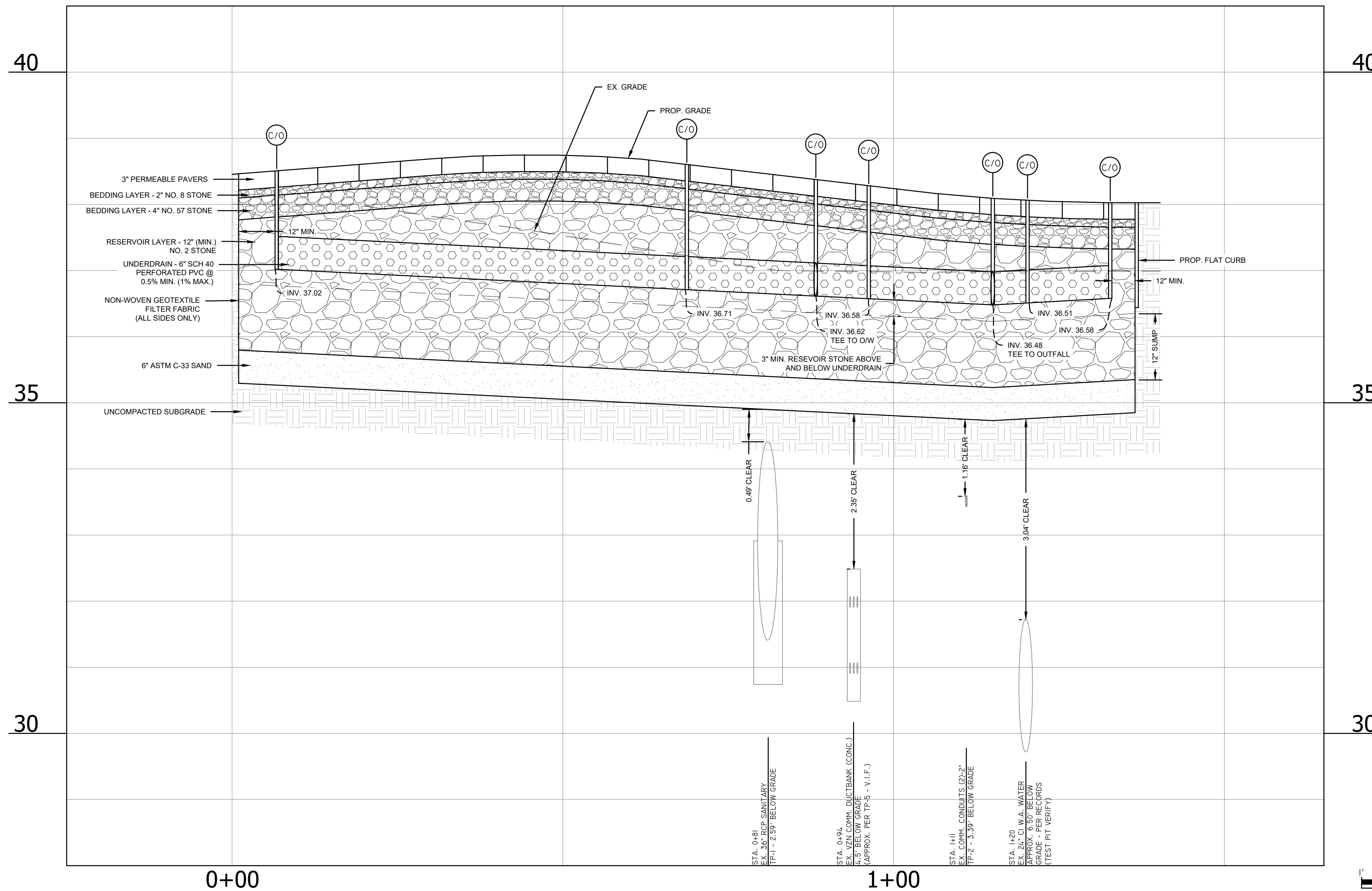
Sheet

C8.060

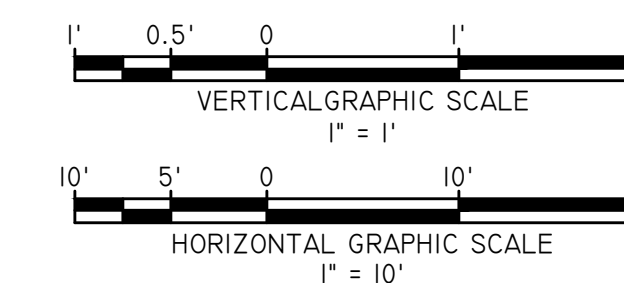


- GENERAL NOTES:**
1. ALL CLEANOUTS WITHIN PERMEABLE PAVERS SHALL BE BRASS CAPS W/COUNTERSUNK PLUGS (ADA COMPLIANT).
 2. ALL OBSERVATION WELLS SHALL BE FITTED WITH PVC CAPS WITH RAISED PLUGS LOCATED OUTSIDE LIMITS OF PAVEMENT AS SHOWN (ELEVATE 6\"/>

PERMEABLE PAVERS #1 (LEVEL 2)
SCALE: 1" = 10'



SECTION A-A
VERTICAL SCALE: 1" = 1'
HORIZONTAL SCALE: 1" = 10'



ARLINGTON COUNTY, VIRGINIA DEPARTMENT OF ENVIRONMENTAL SERVICES	
BMP DETAILS ARLINGTON JUNCTION PARK-CIVIL ENGINEERING PLAN 1051 SOUTH EADS STREET ARLINGTON COUNTY, VA	
SCALE: AS SHOWN	SHEET C8.070



DEPARTMENT OF PARKS
AND RECREATION

Park Development Division
2100 Clarendon Boulevard, Suite 414
Arlington, VA 22201
Phone: 703.228.3332
Fax: 703.228.3328

ITB #23-DPR-ITBPW-450

#SWM 22-0224

Project Name and Location

**ARLINGTON
JUNCTION PARK**

FINAL PLAN

1051 SOUTH EADS STREET

ARLINGTON, VIRGINIA

Sheet Title

BMP DETAILS

Approval _____ Date _____

Design Supervisor _____

Revisions _____ Date _____

CEP#2 _____ 12/21/2022

CEP#3 _____ 06/02/2023

BUILDING PERMIT _____ 02/15/2023

REVISED BUILDING PERMIT _____ 04/20/2023

CEP#4 _____ 07/21/2023

Designed: ME

Drawn: ME

Checked: JA

Filename: _____

Plotted: _____

Scale: AS SHOWN

Date: July 21, 2023

Seal



Sheet

C8.070

ITB #23-DPR-ITBPW-450

#SWM 22-0224

Project Name and Location
ARLINGTON JUNCTION PARK

FINAL PLAN

1051 SOUTH EADS STREET
 ARLINGTON, VIRGINIA

Sheet Title
BMP DETAILS

Approval _____ Date _____

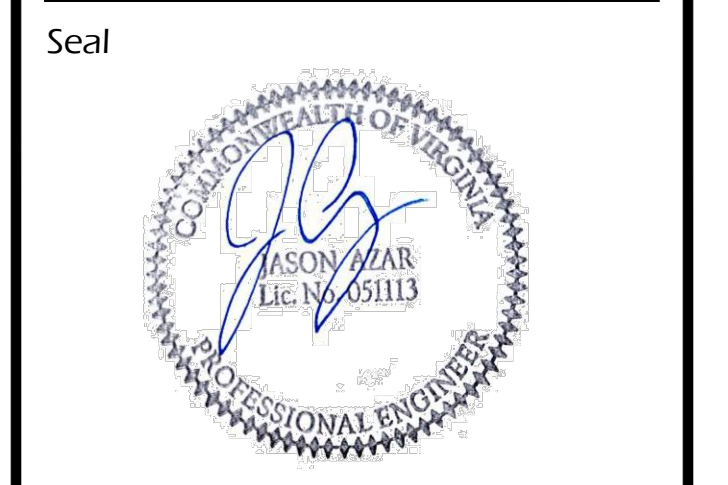
Design Supervisor _____

Revisions	Date
CEP#2	12/21/2022
CEP#3	06/02/2023
BUILDING PERMIT	02/15/2023
REVISED BUILDING PERMIT	04/20/2023
CEP#4	07/21/2023

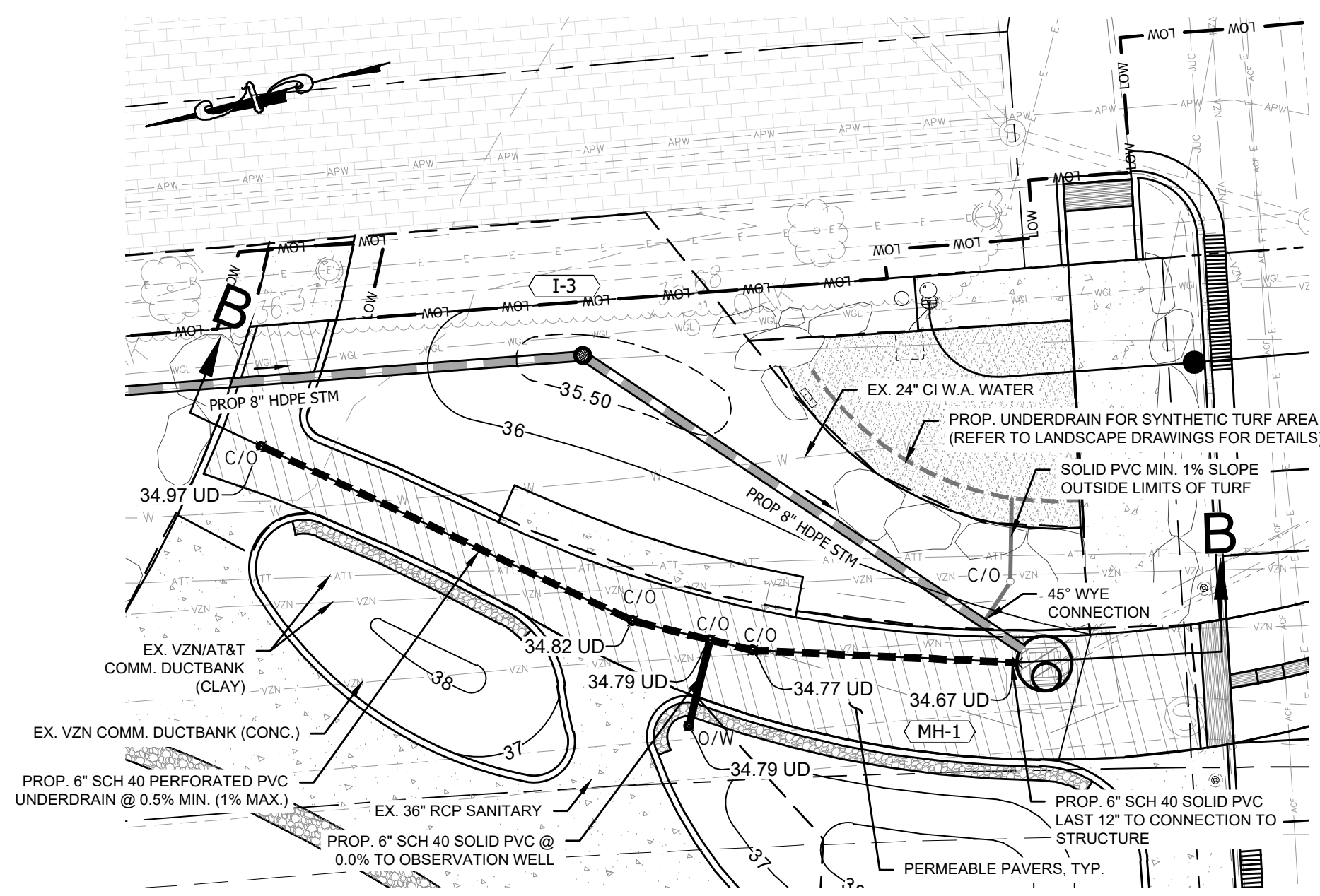
Designed: ME
 Drawn: ME
 Checked: JA

Filename: _____
 Plotted: _____

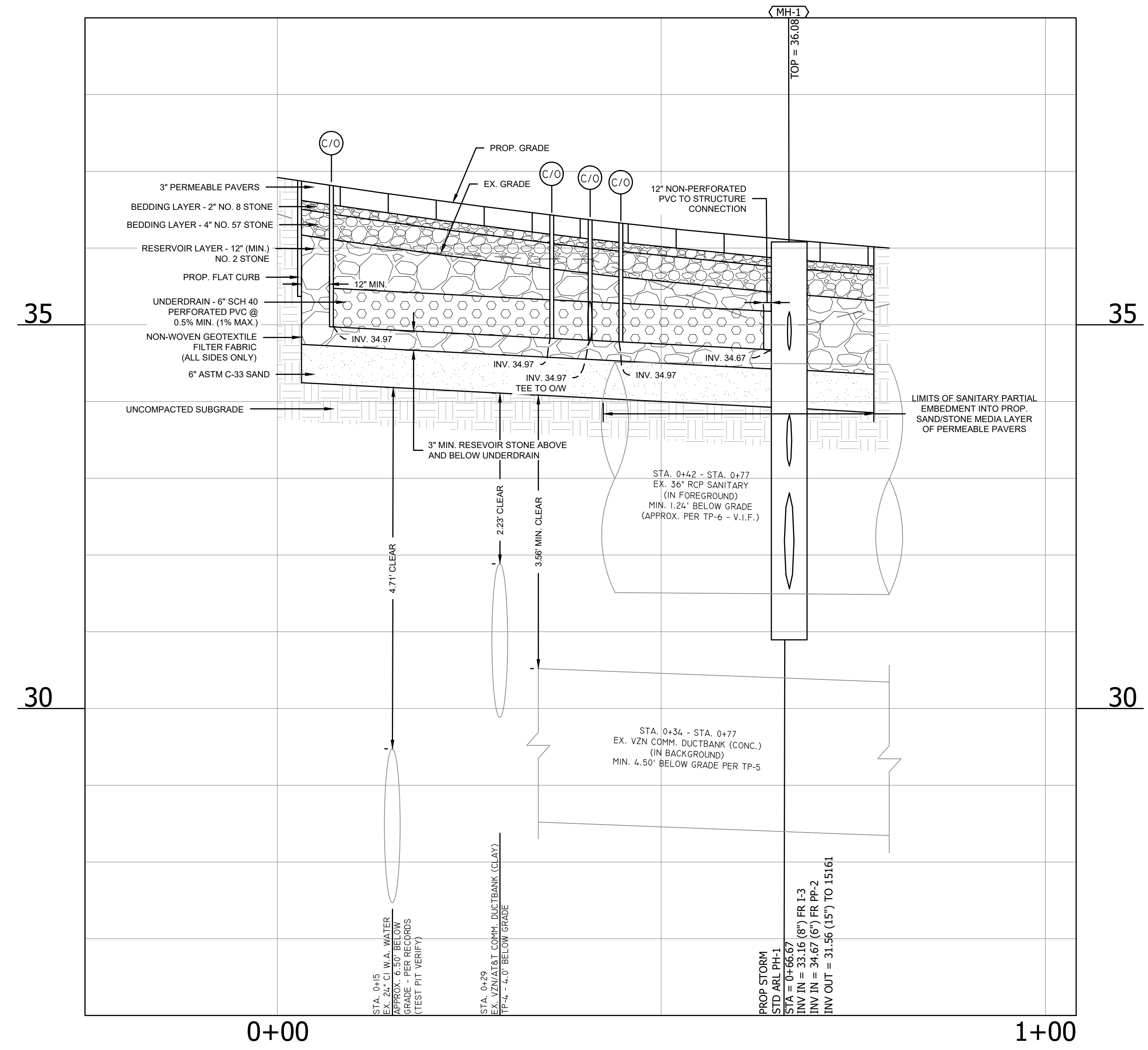
Scale: AS SHOWN
 Date: July 21, 2023



Sheet
C8.080



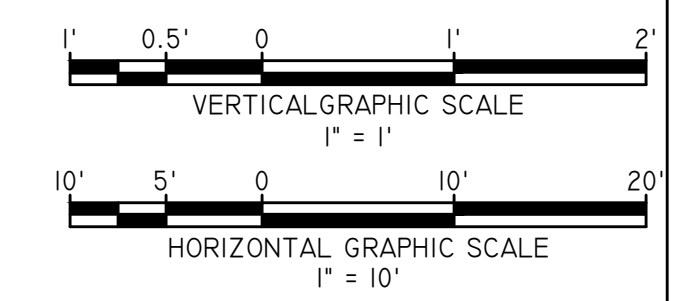
- GENERAL NOTES:**
- ALL CLEANOUTS WITHIN PERMEABLE PAVERS SHALL BE BRASS CAPS W/COUNTERSUNK PLUGS (ADA COMPLIANT).
 - ALL OBSERVATION WELLS SHALL BE FITTED WITH PVC CAPS WITH RAISED PLUGS LOCATED OUTSIDE LIMITS OF PAVEMENT AS SHOWN (ELEVATE 6" ABOVE GRADE).
 - ALL UNDERDRAINS SHALL BE CONSTRUCTED WITH A MIN. 0.5% SLOPE (1% MAX.) AND SHALL BE VERIFIED IN FIELD WITH INSPECTOR TO ENSURE POSITIVE SLOPE IS MAINTAINED ACROSS ENTIRE LENGTH OF UNDERDRAIN INSTALLED.



ARLINGTON COUNTY, VIRGINIA
 DEPARTMENT OF ENVIRONMENTAL SERVICES

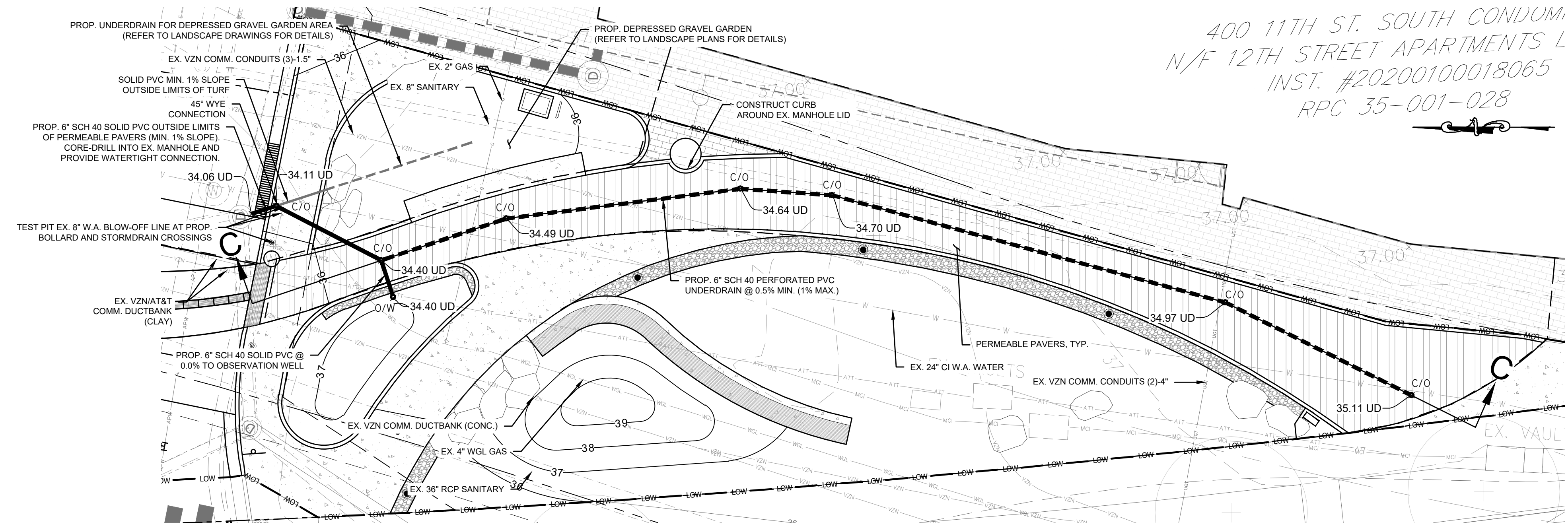
BMP DETAILS
 ARLINGTON JUNCTION PARK-CIVIL ENGINEERING PLAN
 1051 SOUTH EADS STREET
 ARLINGTON COUNTY, VA

SCALE: AS SHOWN SHEET C8.080

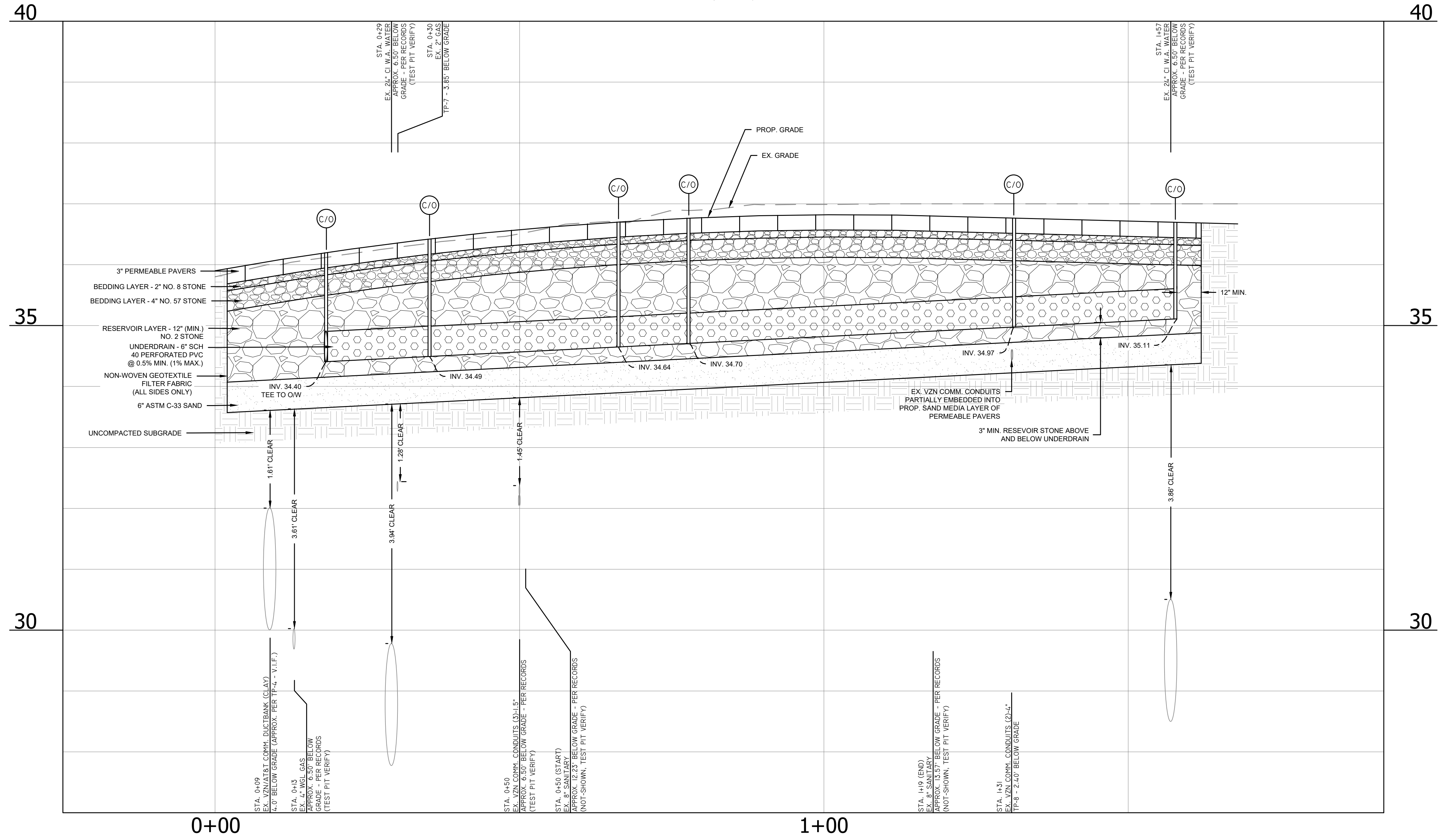


400 11TH ST. SOUTH CONDOM
 N/F 12TH STREET APARTMENTS L
 INST. #20200100018065
 RPC 35-001-028

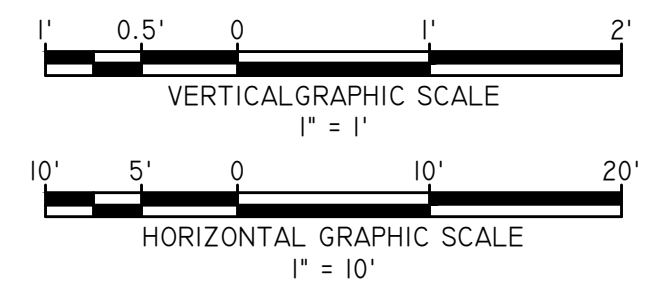
- GENERAL NOTES:**
1. ALL CLEANOUTS WITHIN PERMEABLE PAVERS SHALL BE BRASS CAPS W/ COUNTERSINK PLUGS (ADA COMPLIANT).
 2. ALL OBSERVATION WELLS SHALL BE FITTED WITH PVC CAPS WITH RAISED PLUGS LOCATED OUTSIDE LIMITS OF PAVEMENT AS SHOWN (ELEVATE 6" ABOVE GRADE).
 3. ALL UNDERDRAINS SHALL BE CONSTRUCTED WITH A MIN. 0.5% SLOPE (1% MAX.) AND SHALL BE VERIFIED IN FIELD WITH INSPECTOR TO ENSURE POSITIVE SLOPE IS MAINTAINED ACROSS ENTIRE LENGTH OF UNDERDRAIN INSTALLED.



PERMEABLE PAVERS #3 (LEVEL 1)
 SCALE: 1" = 10'



SECTION C-C
 VERTICAL SCALE: 1" = 1'
 HORIZONTAL SCALE: 1" = 10'



ARLINGTON COUNTY, VIRGINIA
 DEPARTMENT OF ENVIRONMENTAL SERVICES

BMP DETAILS
 ARLINGTON JUNCTION PARK-CIVIL ENGINEERING PLAN
 1051 SOUTH EADS STREET
 ARLINGTON COUNTY, VA

SCALE: AS SHOWN	SHEET C8.090
-----------------	--------------



DEPARTMENT OF PARKS
 AND RECREATION

Park Development Division
 2100 Clarendon Boulevard, Suite 414
 Arlington, VA 22201
 Phone: 703.228.3332
 Fax: 703.228.3328

ITB #23-DPR-ITBPW-450

#SWM 22-0224

Project Name and Location
**ARLINGTON
 JUNCTION PARK**

FINAL PLAN

1051 SOUTH EADS STREET
 ARLINGTON, VIRGINIA

Sheet Title
BMP DETAILS

Approval	Date

Revisions	Date
CEP#2	12/21/2022
CEP#3	06/02/2023
BUILDING PERMIT	02/15/2023
REVISED BUILDING PERMIT	04/20/2023
CEP#4	07/21/2023

Designed: ME
 Drawn: ME
 Checked: JA

Filename:
 Plotted:

Scale: AS SHOWN
 Date: July 21, 2023



Sheet
C8.090

ITB #23-DPR-ITBPW-450

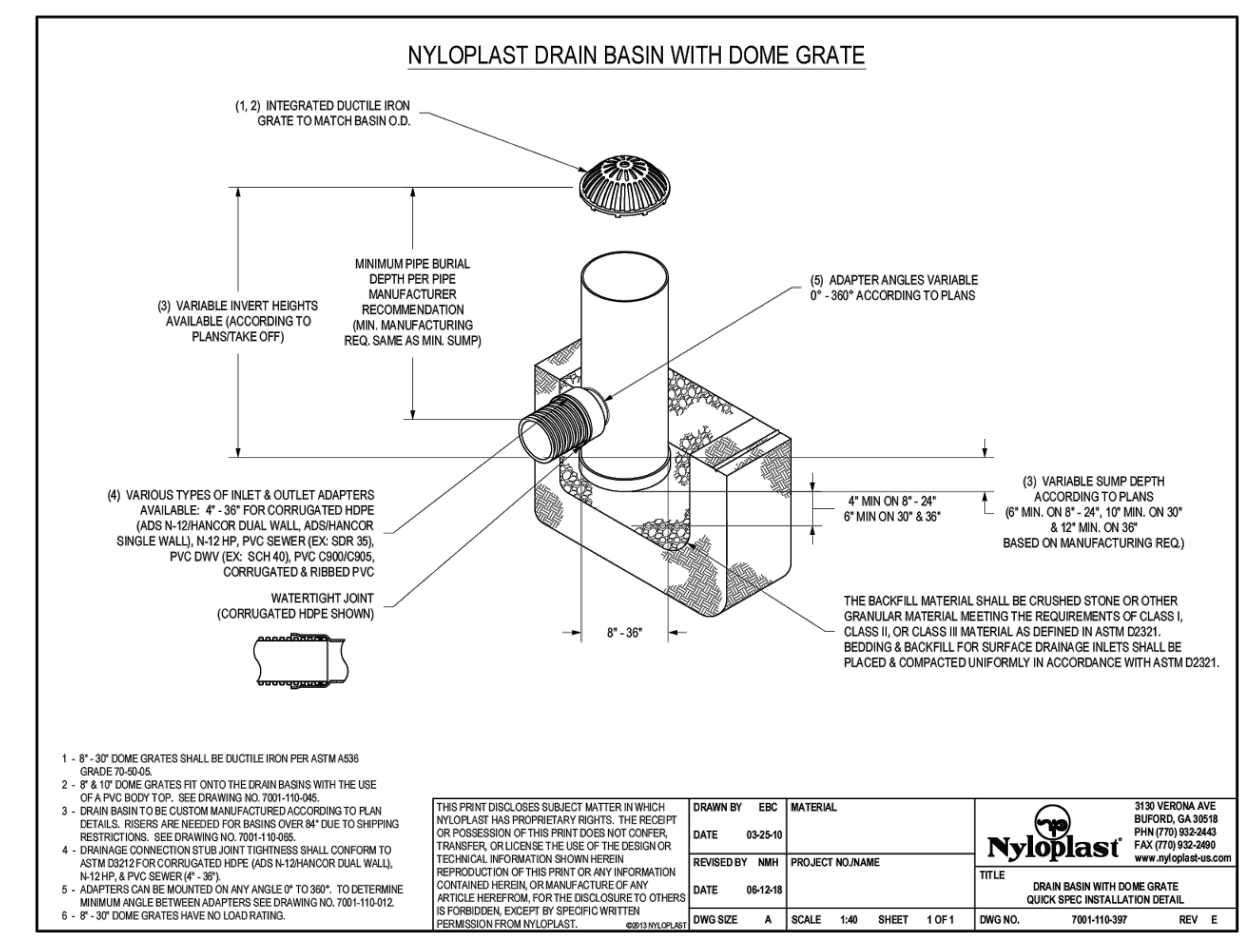
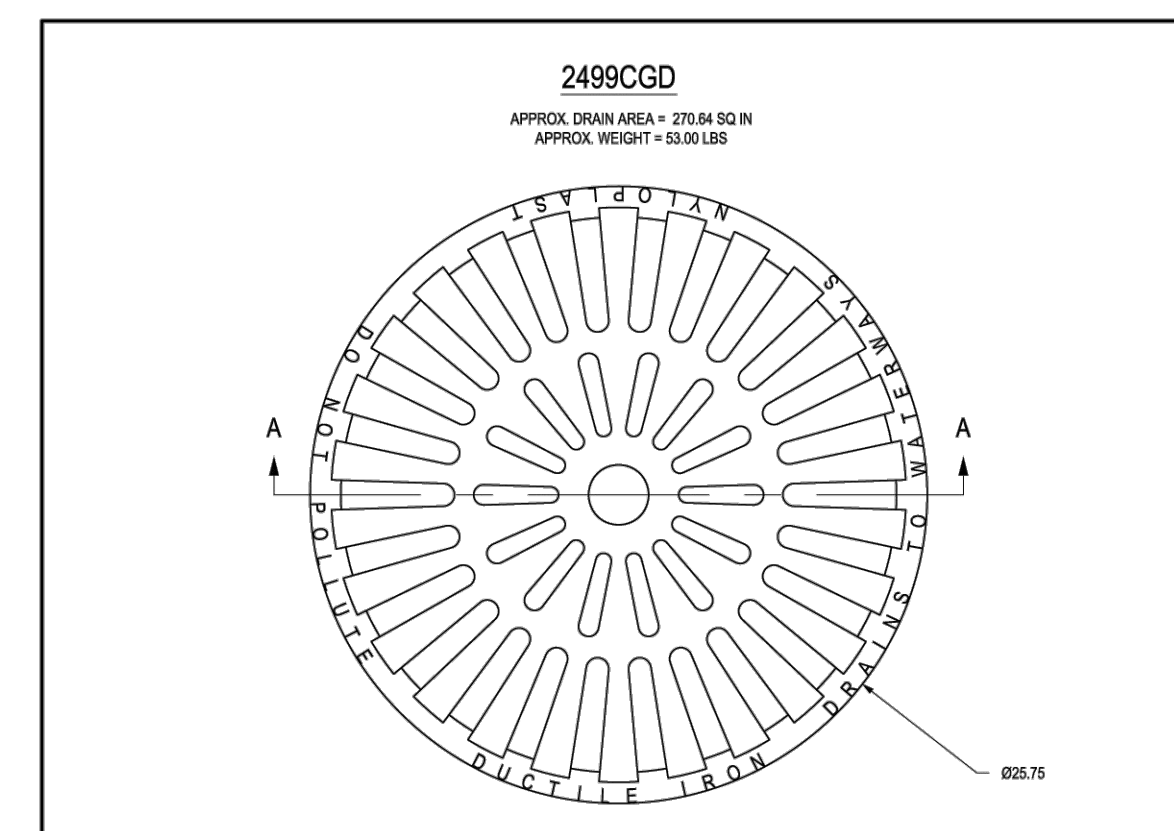
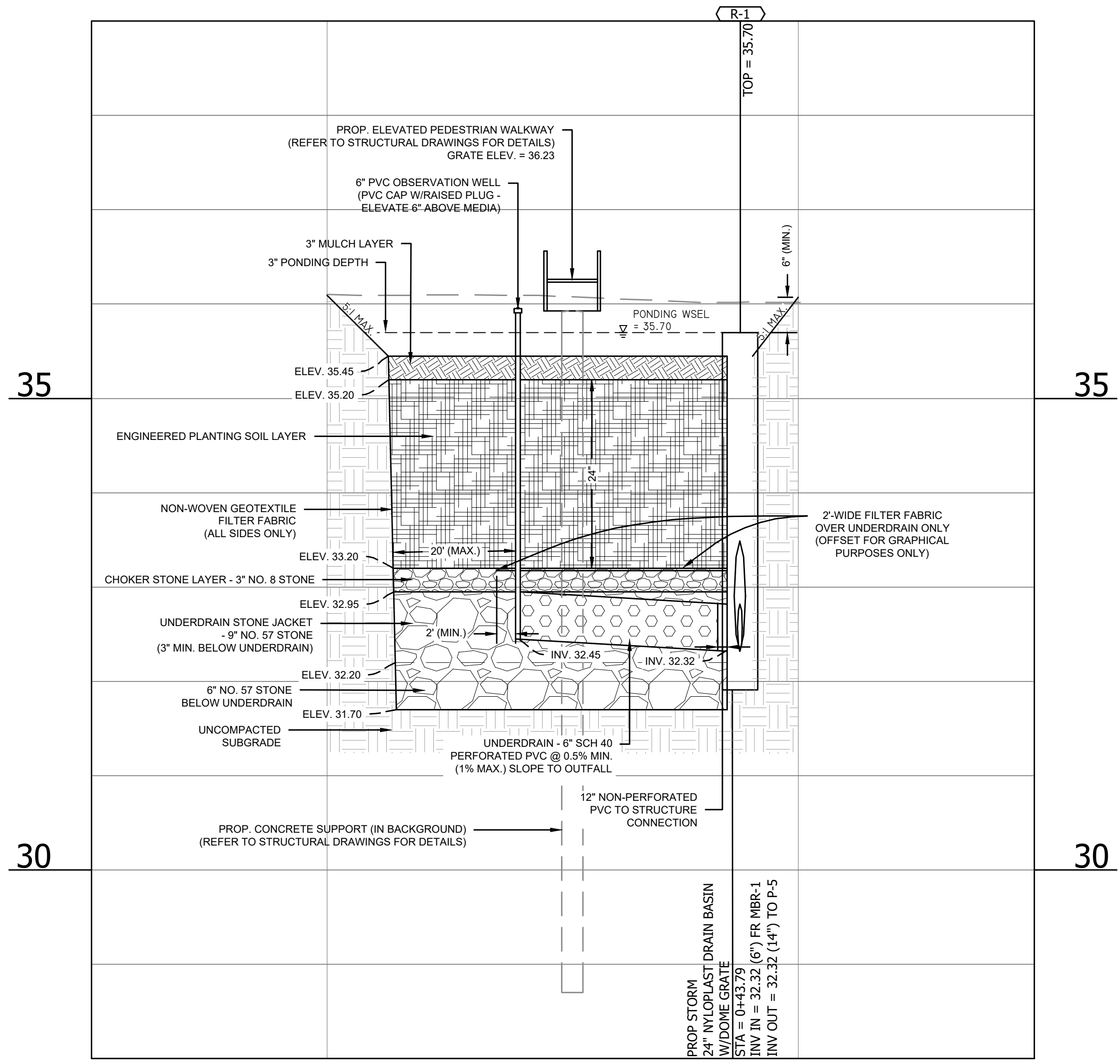
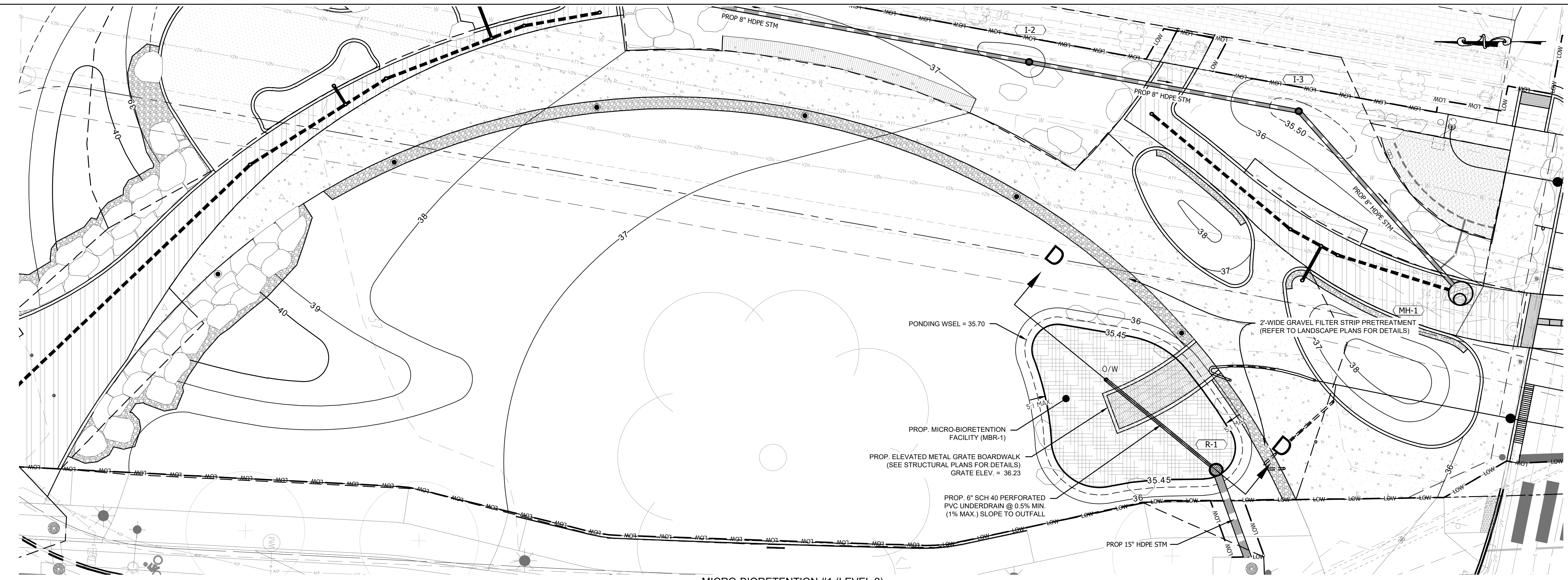
#SWM 22-0224

Project Name and Location
ARLINGTON JUNCTION PARK

FINAL PLAN

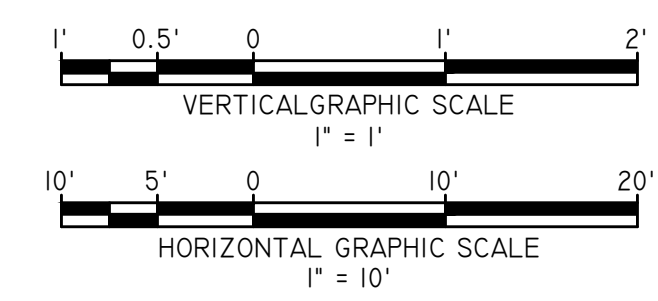
1051 SOUTH EADS STREET
 ARLINGTON, VIRGINIA

Sheet Title
BMP DETAILS



DESIGNED BY	DATE	SCALE	SHEET	NO. IN SHEET
2011	10/10/11	1/4"	1 OF 1	1 OF 1

DESIGNED BY	DATE	SCALE	SHEET	NO. IN SHEET
2011	10/10/11	1/4"	1 OF 1	1 OF 1



ARLINGTON COUNTY, VIRGINIA
 DEPARTMENT OF ENVIRONMENTAL SERVICES

BMP DETAILS
 ARLINGTON JUNCTION PARK-CIVIL ENGINEERING PLAN
 1051 SOUTH EADS STREET
 ARLINGTON COUNTY, VA

SCALE: AS SHOWN SHEET C8.100

Approval _____ Date _____

Design Supervisor _____

Revisions _____ Date _____

CEP#2 12/21/2022

CEP#3 06/02/2023

BUILDING PERMIT 02/15/2023

REVISED BUILDING PERMIT 04/20/2023

CEP#4 07/21/2023

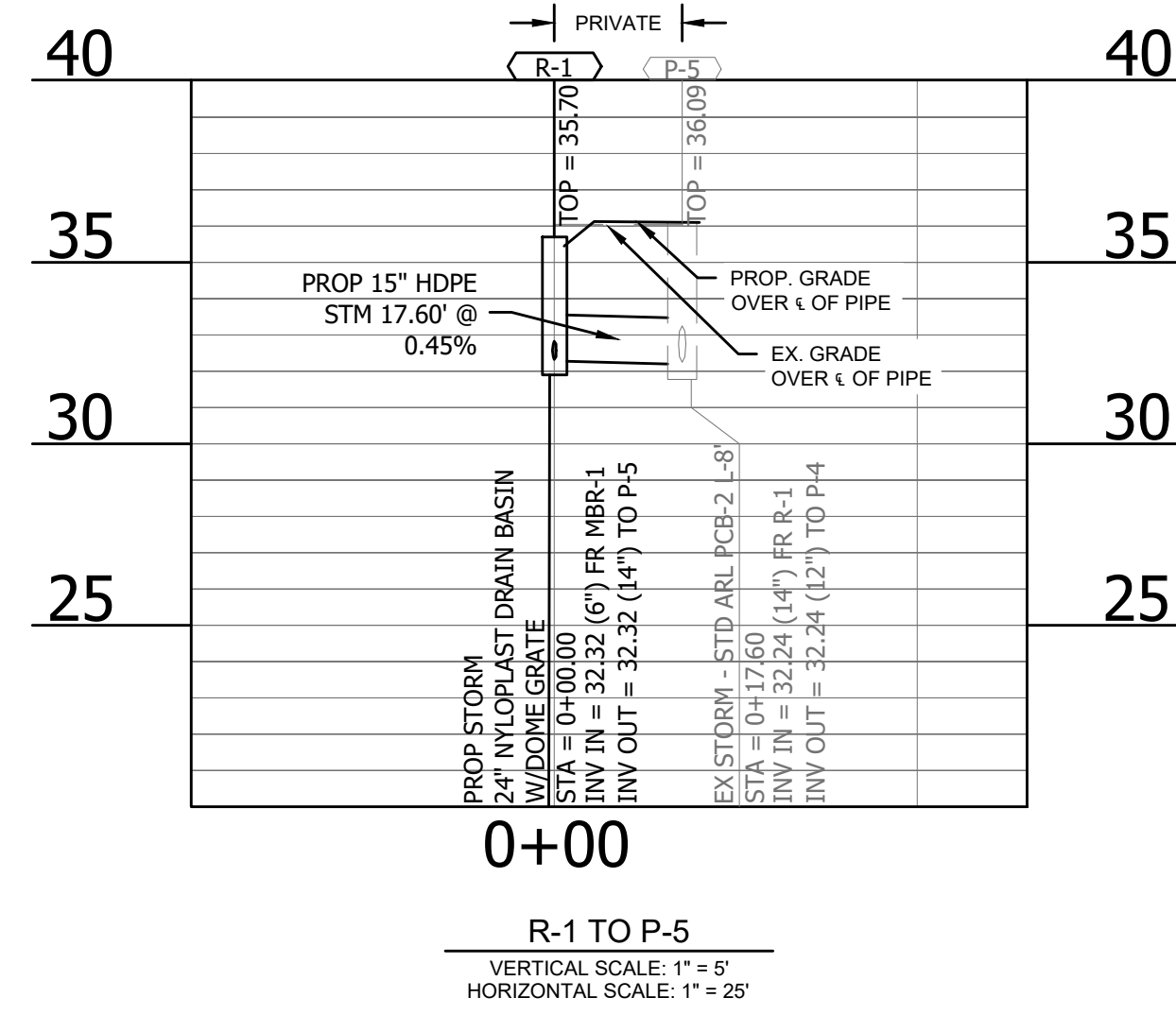
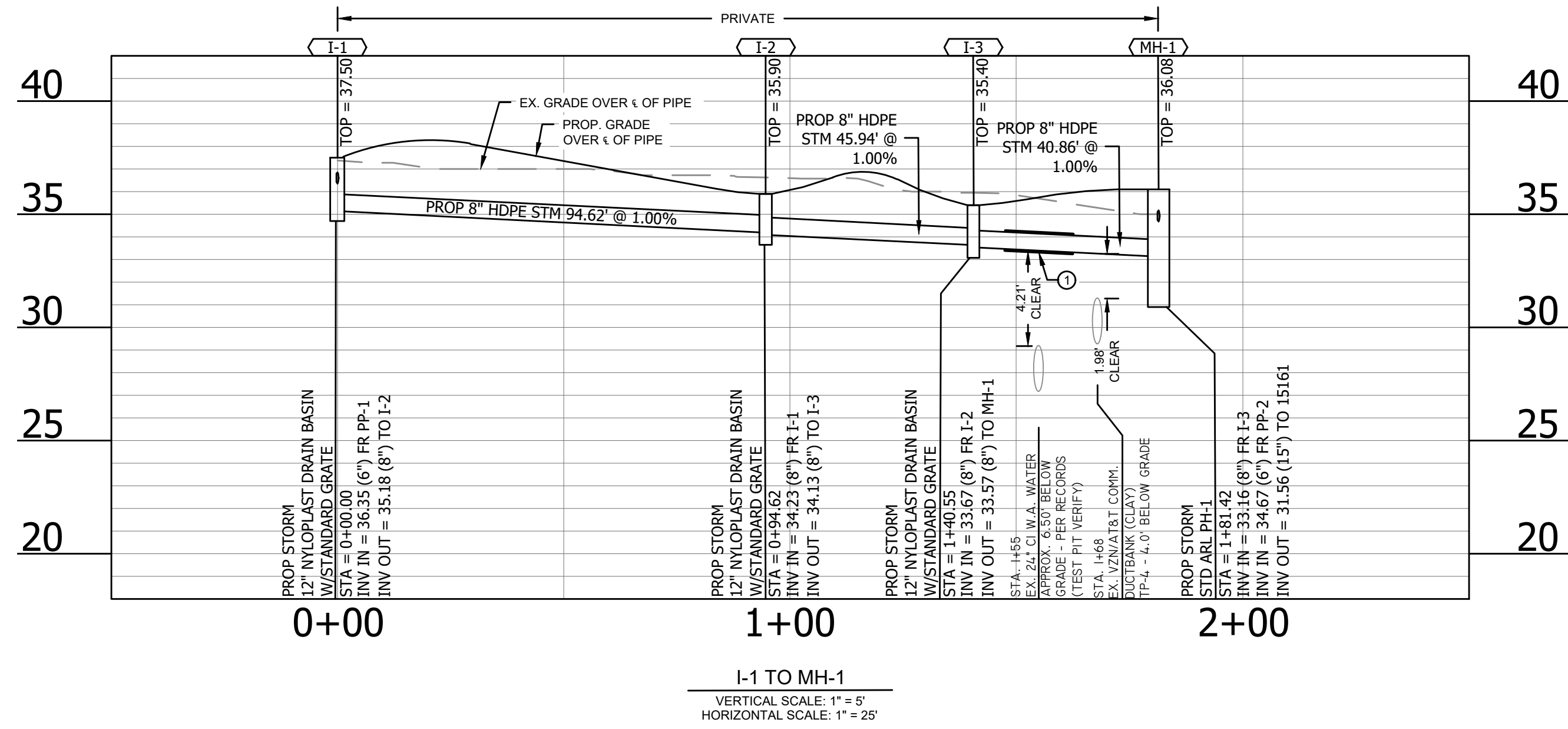
Designed: ME
 Drawn: ME
 Checked: JA

Filename:
 Plotted:

Scale: AS SHOWN
 Date: July 21, 2023

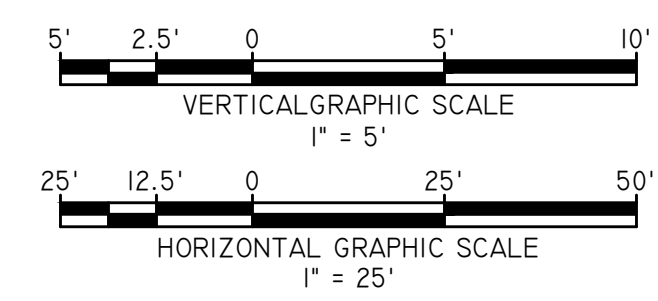
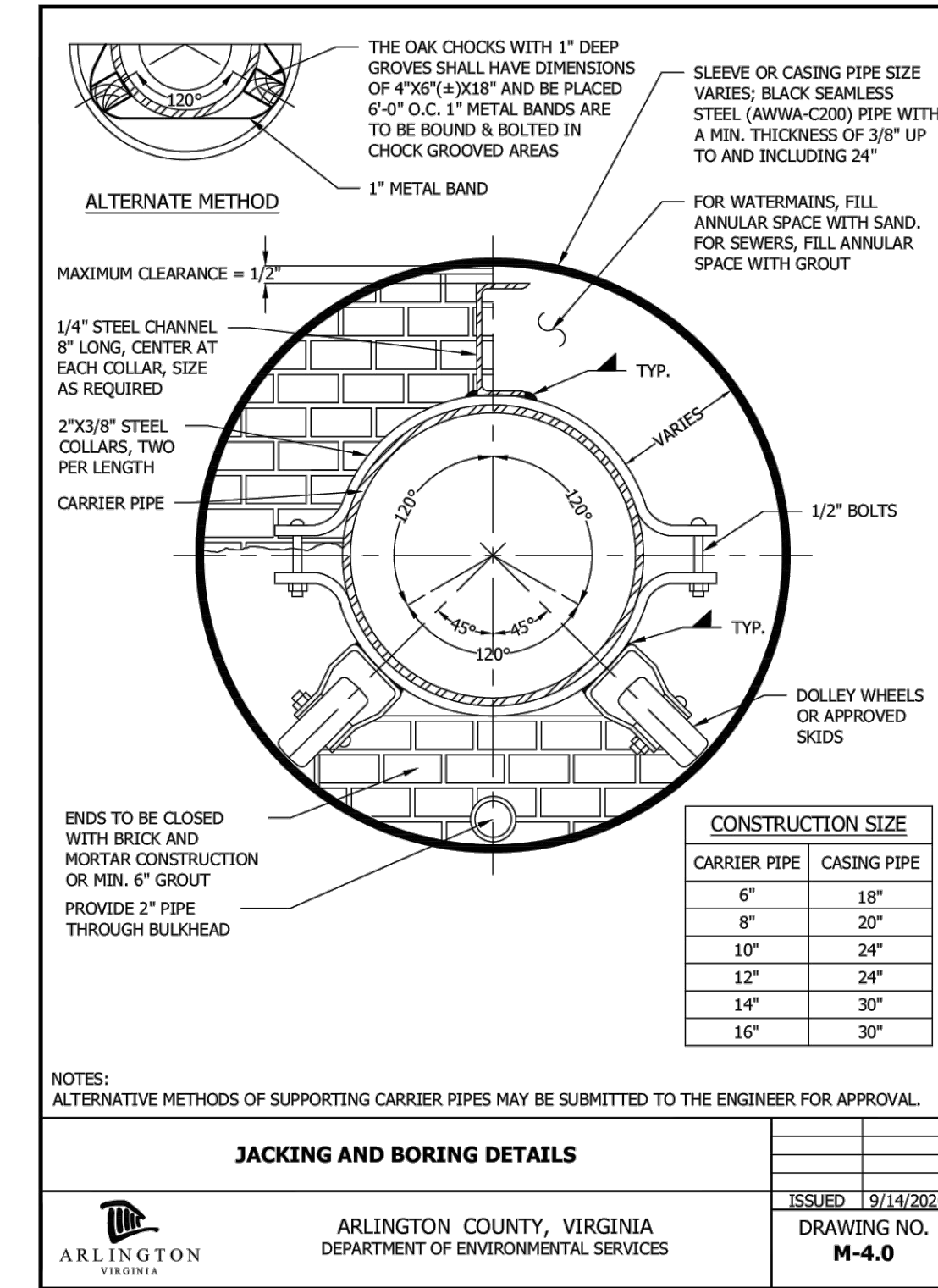


Sheet
C8.100



STORMDRAIN NOTES:
 1 PROP. 8" HDPE STORMDRAIN SHALL BE INSTALLED WITH 15'-LONG CARRIER PIPE CENTERED ON 24" W.A. WATER LINE PER ARL. CO. STD. M-4.0.

Storm Tabulation		Storm Tabulation	
Structure #	Data	Structure #	Data
I-1	TOP = 37.50 INV. IN = 36.35 (6") FROM PP-1 INV. OUT = 35.18 (8") TO I-2	MH-1	TOP = 36.08 INV. IN = 33.16 (8") FROM I-3 INV. IN = 34.67 (6") FROM PP-2 INV. OUT = 31.56 (15" Reinforced Concrete Pipe) TO 15161
I-2	TOP = 35.90 INV. IN = 34.23 (8") FROM I-1 INV. OUT = 34.13 (8") TO I-3	P-5	TOP = 36.09 INV. IN = 32.24 (14") FROM R-1 INV. OUT = 32.24 (12" Reinforced Concrete Pipe) TO P-4
I-3	TOP = 35.40 INV. IN = 33.67 (8") FROM I-2 INV. OUT = 33.57 (8") TO MH-1	R-1	TOP = 35.70 INV. IN = 32.32 (6") FROM MBR-1 INV. OUT = 32.32 (14") TO P-5



ARLINGTON COUNTY, VIRGINIA
 DEPARTMENT OF ENVIRONMENTAL SERVICES

STORM PROFILES
 ARLINGTON JUNCTION PARK-CIVIL ENGINEERING PLAN
 1051 SOUTH EADS STREET
 ARLINGTON COUNTY, VA

SCALE: AS SHOWN SHEET C8.110



DEPARTMENT OF PARKS AND RECREATION
 Park Development Division
 2100 Clarendon Boulevard, Suite 414
 Arlington, VA 22201
 Phone: 703.228.3332
 Fax: 703.228.3328

ITB #23-DPR-ITBPW-450

#SWM 22-0224

Project Name and Location
ARLINGTON JUNCTION PARK

FINAL PLAN

1051 SOUTH EADS STREET
 ARLINGTON, VIRGINIA

Sheet Title
STORM PROFILES

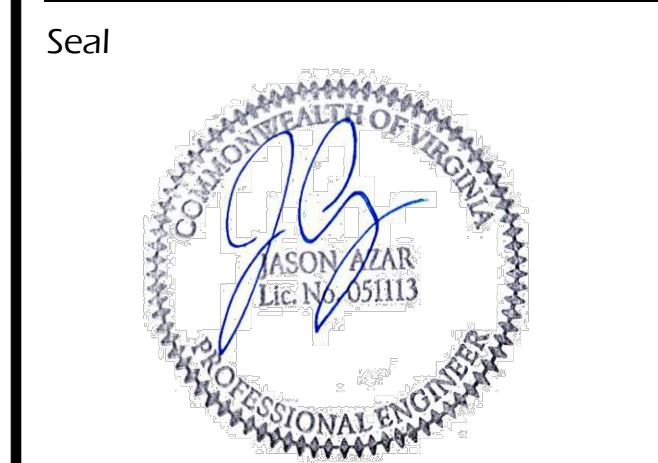
Approval _____ Date _____
 Design Supervisor _____

Revisions	Date
CEP#2	12/21/2022
CEP#3	06/02/2023
BUILDING PERMIT	02/15/2023
REVISED BUILDING PERMIT	04/20/2023
CEP#4	07/21/2023

Designed: ME
 Drawn: ME
 Checked: JA

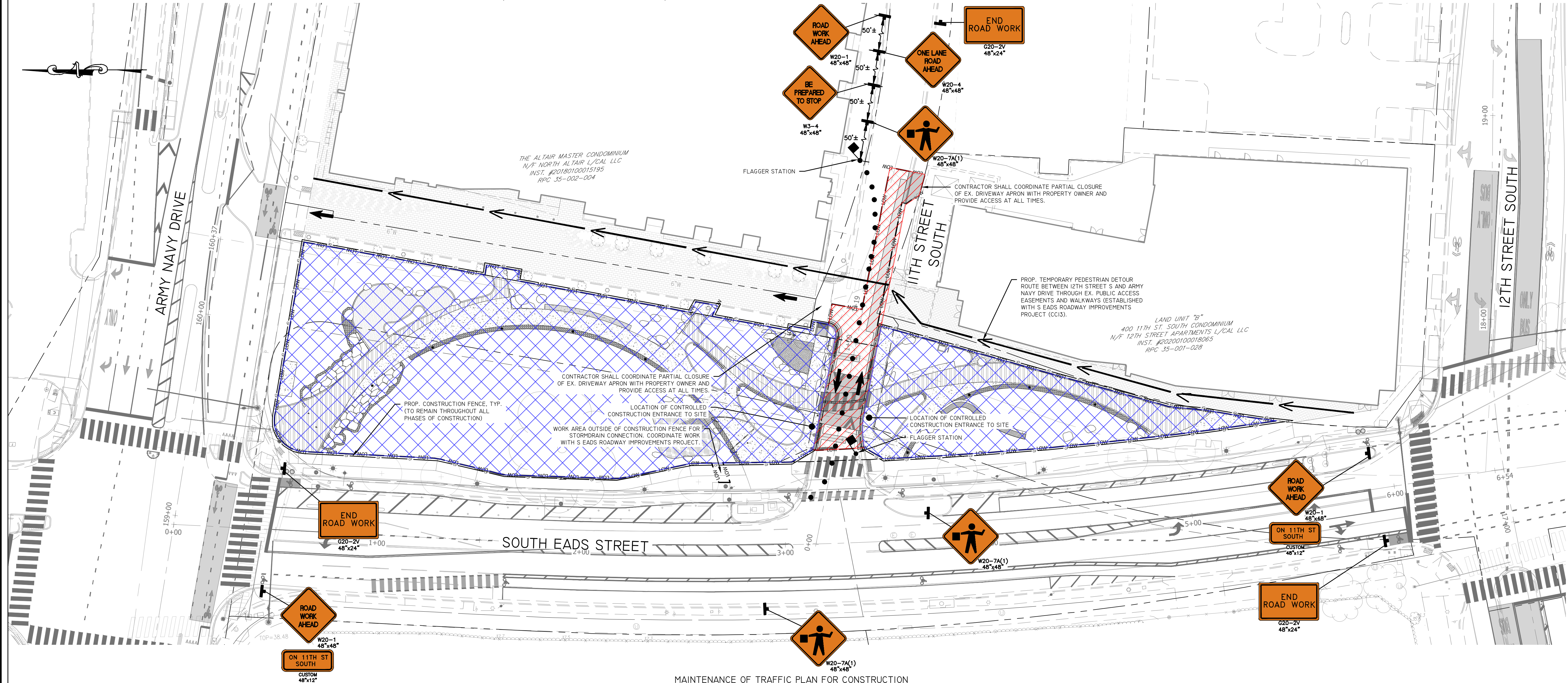
Filename:
 Plotted:

Scale: AS SHOWN
 Date: July 21, 2023

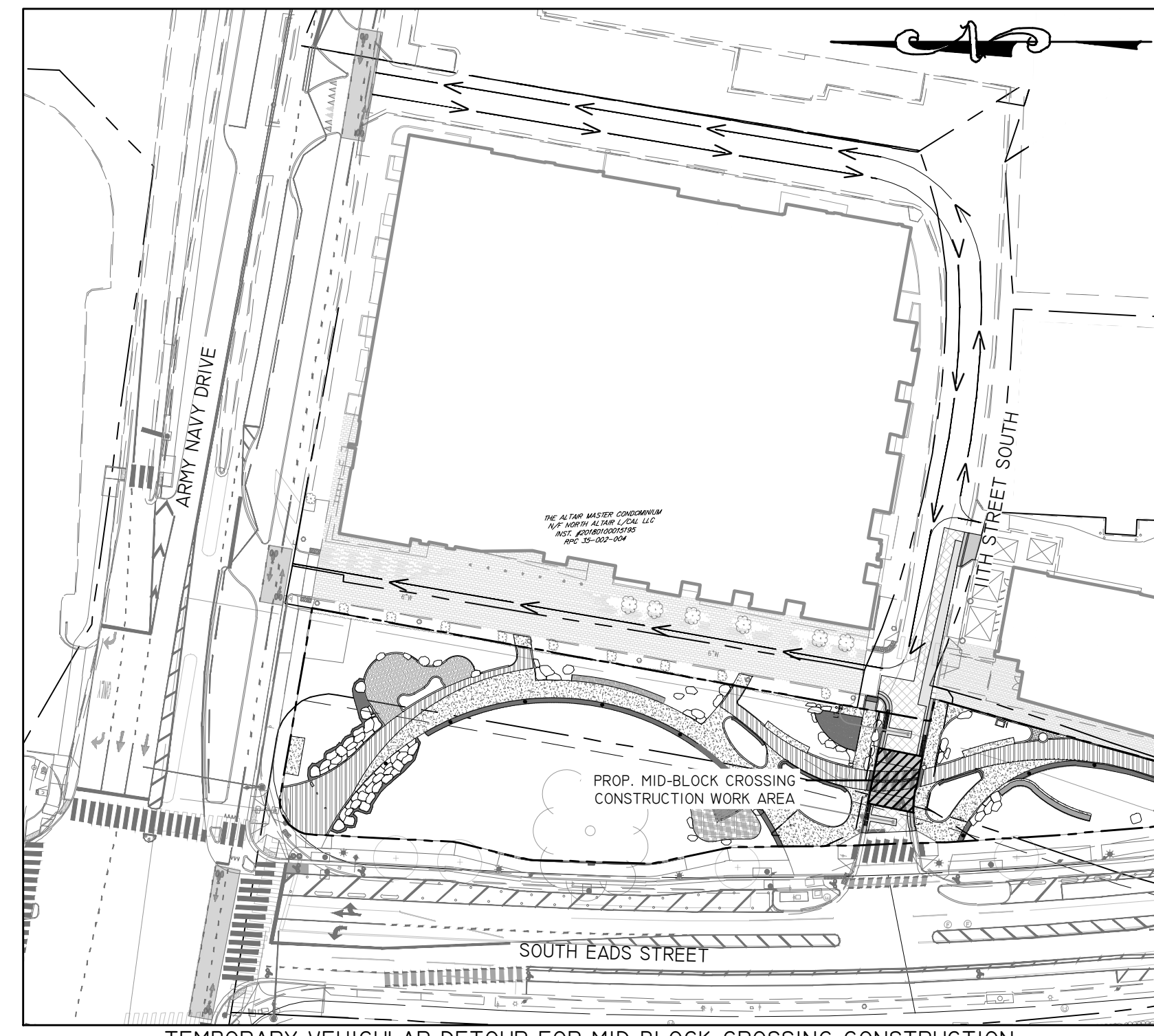


Sheet
C8.110

MOT PLAN: ON-SITE DEMOLITION, CONSTRUCTION, AND UTILITY CONNECTIONS AND ROADWAY CONSTRUCTION IN 11TH ST S



MAINTENANCE OF TRAFFIC PLAN FOR CONSTRUCTION
SCALE: 1" = 25'



TEMPORARY VEHICULAR DETOUR FOR MID-BLOCK CROSSING CONSTRUCTION
SCALE: 1" = 60'

MAINTENANCE OF TRAFFIC PLAN INTRODUCTION
MAINTENANCE OF TRAFFIC IS FOR ON-SITE PARK DEMOLITION, CONSTRUCTION, AND THE PLACEMENT OF UTILITIES AND CONSTRUCTION OF ROADWAY IMPROVEMENTS WITHIN 11TH ST S.

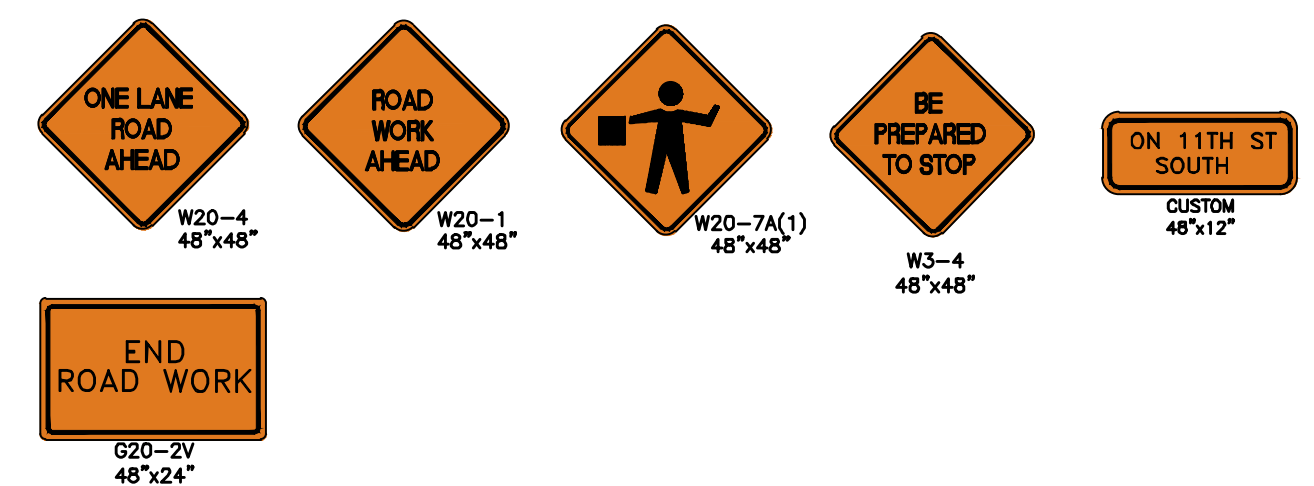
11TH ST S (DURATION: APPROX. 2 WEEKS)
DURING CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS PHASE, ONE LANE WILL BE TEMPORARILY CLOSED WITH THE USE OF SIGNS AND FLAGGERS. TWO-WAY VEHICULAR TRAFFIC SHALL BE RESTORED AT THE END OF EACH WORK DAY. CONSTRUCTION OF CONCRETE RAISED MID-BLOCK CROSSING WILL NECESSITATE TEMPORARY 11TH STREET LANE CLOSURE AND VEHICULAR DETOUR ROUTE AS INDICATED ON PLAN.

CONSTRUCTION ACTIVITY WITHIN THE PUBLIC RIGHT-OF-WAY MAY OCCUR BETWEEN 9:00 A.M. AND 3:30 P.M., MONDAY THROUGH FRIDAY OR BETWEEN 10:00 A.M. AND 6:00 P.M. ON WEEKENDS AND HOLIDAYS. CONSTRUCTION ACTIVITY WITHIN THE PUBLIC RIGHT-OF-WAY SHALL NOT OCCUR BETWEEN 6:00 A.M. AND 9:00 A.M. OR BETWEEN 3:30 P.M. AND 6:30 P.M. MONDAY THROUGH FRIDAY. THE FOREGOING CONSTRUCTION HOURS MAY BE MODIFIED BY THE COUNTY MANAGER IF HE/SHE FINDS THAT: 1) FOR RIGHT-OF-WAY IMPROVEMENTS REQUIRED BY THE SITE PLAN, CONSTRUCTION ACTIVITY MUST BE CONSTRUCTED OUTSIDE THE HOURS STATED ABOVE IN ORDER TO AVOID DISRUPTION OF TRAFFIC OR OTHER TRANSPORTATION SYSTEMS; OR 2) THE CONSTRUCTION ACTIVITY REQUIRES CERTAIN UTILITY WORK AND/OR STREET CLOSURE OUTSIDE THE HOURS ABOVE. "HOLIDAYS" ARE DEFINED AS NEW YEAR'S DAY, MARTIN LUTHER KING DAY, PRESIDENTS DAY, MEMORIAL DAY, INDEPENDENCE DAY, LABOR DAY, COLUMBUS DAY, VETERANS DAY, THANKSGIVING AND CHRISTMAS.

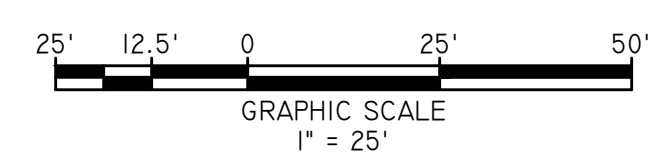
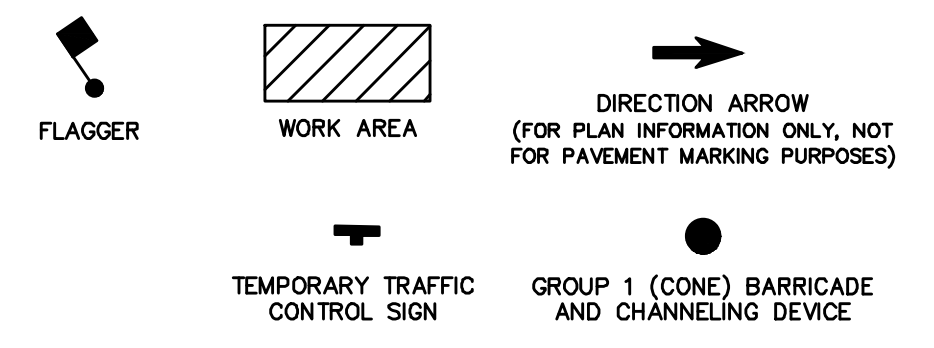
ADJACENT AND CONCURRENT PROJECTS
THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COORDINATION OF THE CONSTRUCTION OF THE PARK WITH ALL ADJACENT ACTIVE PROJECTS WITHIN THE VICINITY OF THE PROJECT.

PEDESTRIAN DETOUR ROUTE AROUND PROJECT SITE
THE CONTRACTOR SHALL COORDINATE CONTINUED USE OF PEDESTRIAN DETOUR ROUTE FROM 12TH STREET S TO ARMY NAVY DRIVE (AS SHOWN ON PLAN) ESTABLISHED WITH S EADS STREET ROADWAY IMPROVEMENTS PROJECT (CC13) THROUGHOUT ALL PHASES OF CONSTRUCTION.

SIGN LEGEND



MOT LEGEND



DEPARTMENT OF PARKS AND RECREATION
Park Development Division
2100 Clarendon Boulevard, Suite 414
Arlington, VA 22201
Phone: 703.228.3332
Fax: 703.228.3328

ITB #23-DPR-ITBPW-450

#SWM 22-0224

Project Name and Location
ARLINGTON JUNCTION PARK

FINAL PLAN

1051 SOUTH EADS STREET
ARLINGTON, VIRGINIA

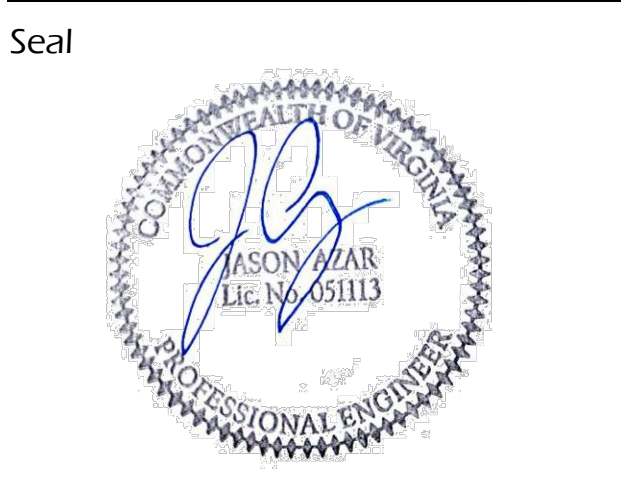
Sheet Title
MAINTENANCE OF TRAFFIC PLAN FOR CONSTRUCTION

Approval	Date
Design Supervisor	
Revisions	Date
CEP#2	12/21/2022
CEP#3	06/02/2023
BUILDING PERMIT	02/15/2023
REVISED BUILDING PERMIT	04/20/2023
CEP#4	07/21/2023

Designed: ME
Drawn: ME
Checked: JA

Filename:
Plotted:

Scale: AS SHOWN
Date: July 21, 2023



Sheet
C9.000

ARLINGTON COUNTY, VIRGINIA
DEPARTMENT OF ENVIRONMENTAL SERVICES
MAINTENANCE OF TRAFFIC PLAN FOR CONSTRUCTION
ARLINGTON JUNCTION PARK-CIVIL ENGINEERING PLAN
1051 SOUTH EADS STREET
ARLINGTON COUNTY, VA

SCALE: AS SHOWN SHEET C9.000



ARLINGTON VIRGINIA

DEPARTMENT OF PARKS AND RECREATION

Park Development Division
2100 Clarendon Boulevard, Suite 414
Arlington, VA 22201
Phone: 703.228.3332
Fax: 703.228.3328

ITB #23-DPR-ITBPW-450

#SWM 22-0224

Project Name and Location

ARLINGTON JUNCTION PARK

FINAL PLAN

1051 SOUTH EADS STREET

ARLINGTON, VIRGINIA

Sheet Title

GEOTECHNICAL REQUIREMENTS

Approval

Date

Design Supervisor

Revisions

Date

CEP#2 12/21/2022

CEP#3 06/02/2023

BUILDING PERMIT 02/15/2023

REVISED BUILDING PERMIT 04/20/2023

CEP#4 07/21/2023

Designed: ME
Drawn: ME
Checked: JA

Filename:
Plotted:

Scale: AS SHOWN
Date: July 21, 2023

Seal



Sheet

C9.020

ARLINGTON COUNTY, VIRGINIA
DEPARTMENT OF ENVIRONMENTAL SERVICES

GEOTECHNICAL REQUIREMENTS

ARLINGTON JUNCTION PARK—CIVIL ENGINEERING PLAN

1051 SOUTH EADS STREET

ARLINGTON COUNTY, VA

SCALE: AS SHOWN SHEET C9.020

South Eads Park
DMV Project No. 01.05718.01
May 2, 2022

1.0 PROJECT OVERVIEW

1.1. PROJECT INFORMATION AND SITE CONDITIONS

The project site is located along South Eads Street in Arlington, Virginia. The site is bounded by Army Navy Drive to the north, apartment buildings to the east, 12th Street South, to the south, and South Eads Street to the west. Based on topographic plans provided by Clark | Azar & Associates (herein referred as "Client"), the site is generally flat with elevations ranging from EL. 35 feet to EL. 38 feet.

The project consists of the design and construction of a new park with architectural features. The planned features and structures are listed below:

- A new micro-bioretenation facility with an invert elevation of EL 31.7 ft.
- Permeable pavers and concrete pavement will be constructed throughout the park. The invert elevation for the permeable pavers will be at approximately 1.75 to 3.5 feet below proposed grades. We understand that the pavement will be primarily used by pedestrians and will only be utilized by maintenance vehicles about twice a month and bucket trucks less than twice a month.
- New boulder retaining walls with maximum exposed heights ranging from 1.0 to 2.25 feet will be constructed near the northern end of the park and near the entrance to the southern portion of the park. The boulders retaining wall will consist of 2 to 3 stacked boulders.
- A new 6-foot wide boardwalk will be constructed along South Eads Street and through the micro-bioretenation facility in the northern portion of the site. The boardwalk will be supported by helical piers or sonotubes. The boardwalk will support pedestrian loads only. Based on the information provided by the structural engineer, the maximum anticipated load on each helical pier or sonotube will be 5.3 kips.
- New architectural pylon lights that are planned throughout the site. The lights will be 15 feet tall and are planned to be surface mounted to a thickened slab.
- New misting elements and traffic bollards.
- New streetlights along South Eads Street.

The description of the proposed project given above is based on the information provided to us by you and information gathered during our site reconnaissance. If any of the assumptions or geotechnical information is incorrect, DMV should be informed so that we may revise our geotechnical recommendations, if necessary.

1.2. SCOPE OF SERVICES

The purposes of this study were to obtain the subsurface soil and groundwater information for the existing buildings. Our scope of services included the following:

- Drilling nineteen (19) SPT borings and one (1) hand auger boring within the South Eads Park project limits. Two (2) borings were performed in the vicinity of the proposed boardwalk along

3

South Eads Park
DMV Project No. 01.05718.01
May 2, 2022

2.0 FIELD EXPLORATION AND LABORATORY TESTING

2.1. FIELD EXPLORATION

The field exploration consisted of:

- Drilling nineteen (19) Standard Penetration Test (SPT) borings (B-1 through B-14, and B-16 through B-20) to depths ranging from 5 to 25 feet below current site grades.
- Drilling one (1) hand auger boring (B-15) to a depth of 4.5 feet. The hand auger boring was performed at a location which was inaccessible to our drill rig.
- Drilling four (4) auger probes (NF-1 through NF-4) to depths of 5.0 feet for infiltration testing. The infiltration test was conducted in general accordance with the requirements of the Arlington County Stormwater Manual and the Virginia DEQ Stormwater Design Specification No. 8, Infiltration Practices.

The boring locations were selected by the Client and located in the field by DMV personnel using visual reference to existing site features. As-drilled boring elevations were estimated to the nearest half foot based on the topographic plan provided to us by the client. Some borings were offset from the original locations due to reasons such as access, utility conflict, etc. The approximate locations of the as-drilled borings are shown on the Boring Location Plan included in Appendix A.

The SPT borings were drilled by a truck-mounted CME-45 or CME-55 drill rig using the hollow stem auger method. Groundwater levels were measured at each SPT boring location at the time of drilling and upon completion of drilling. The groundwater level was also measured 72 hours after completion of drilling in Borings B-1, B-5, B-10, and B-13. DMV performed a hand auger boring with Dynamic Cone Penetrometer (DCP) test at Boring B-15. This boring location was not accessible to our SPT drill rig; therefore, a hand auger with DCP testing was performed. The field exploration procedures are included in Appendix B.

Following field operations, the soil samples were transported to our laboratory for further analysis and testing. The samples will be stored in our laboratory for a period of 2 weeks from the submittal date of this report. After this period, the samples will be discarded unless we are instructed otherwise.

Surficial Materials
Approximately 2 to 4 inches of topsoil was encountered within Borings B-01 through B-10 and B-16 through B-20. Topsoil encountered is typically a dark colored soil material containing roots, fibrous matter,

4

South Eads Park
DMV Project No. 01.05718.01
May 2, 2022

2.2. LABORATORY TESTING

Representative soil samples were selected and tested in the laboratory to verify field classifications and to determine pertinent engineering properties. The laboratory testing procedures and results are included in Appendix C of this report. The laboratory testing program included the following:

- 8 Natural moisture Content (ASTM D 2216)
- 8 Grain size analysis (ASTM D 6913)
- 8 Atterberg Limits (ASTM D 4318)
- 8 USDA Textural Analysis (ASTM D 7928)
- 1 California Bearing Ratio (VTM-8)
- 1 Standard Proctor (VTM-1)

3.0 SITE GEOLOGY AND SUBSURFACE CONDITIONS

3.1. SITE GEOLOGY AND SOIL SURVEY

According to the Geologic Map of Virginia (1993) published by the Virginia Department of Mines, Minerals, and Energy (DMME), the site is located in the Shirley Formation. The Shirley Formation consists of light to dark gray, bluish gray, and brown sand, gravel, silt, clay and peat. The soil was deposited in riverine terraces, baymouth barriers, and bay-floor plains. The fluvial-estuarine facies comprise a lower pebble to boulder sand overlain by fine to coarse sand interbedded with peat and clayey silt rich in organic material, including tree stumps, leaves, and seeds of cypress, oak, and hickory which grades up to medium-to-thick-bedded clayey and sandy silt and silt clay.

The Arlington County Soil Survey (2019) shows the site within the Urban Land – Urdortheits mapping unit. The Urban Land mapping unit consists of material that has been disturbed during urbanization. Urban Land is highly heterogeneous.

3.2. SUBSURFACE CONDITIONS

The subsurface conditions encountered at the locations explored are shown in the boring logs in Appendix B. The records represent our interpretation of the subsurface conditions in accordance with generally accepted geotechnical engineering practice. The lines designating the interfaces between various strata on the boring logs are approximate, as the actual transitions between soil strata are often gradual. In the absence of foreign substances, it is difficult to distinguish between natural soils and clean soil fills. Although individual test borings are representative of the subsurface conditions at the precise boring locations on the dates shown, they are not necessarily indicative of the subsurface conditions at other locations or at other times.

Surficial Materials
Approximately 2 to 4 inches of topsoil was encountered within Borings B-01 through B-10 and B-16 through B-20. Topsoil encountered is typically a dark colored soil material containing roots, fibrous matter,

5

South Eads Park
DMV Project No. 01.05718.01
May 2, 2022

and/or other organic components, and is generally unsuitable for engineering purposes. No laboratory testing was performed for landscaping use purpose; therefore, the term topsoil is not intended to indicate suitability for landscaping and/or other purposes.

Borings B-11 through B-15 were performed within the construction site in the southern portion of the project. No topsoil was encountered within Borings B-11 through B-15. Approximately 2.4 to 3.6 inches of concrete was encountered at ground surface within Borings B-12 and B-14.

Stratum C, Existing Fill
The existing fill materials were encountered beneath the surficial materials in all borings extending to approximate depths ranging from 2 to 14.2 feet below the existing grades. The existing fill materials identified or classified as LEAN CLAY (CL), CLAYEY GRAVEL (GC), SILTY GRAVEL (GM), SILT (ML), CLAYEY SAND (SC), and SILTY SAND (SM). SPT N-values ranging from 2 blows per foot (bpf) to 20 blows over 0 inches and DCP blow values ranging from 8 to more than 30 blows per 1.75-inch increment were recorded in the fill materials, indicating a firm to very hard consistency for fine-grained soils and a very loose to medium dense relative density for coarse-grained soils in this stratum. No compaction records were available for the existing fill materials and, consequently, the fill encountered is considered uncontrolled.

Stratum C, Coastal Plain Deposits
Coastal Plain Deposits are defined as coast deposits of clay, silt, sand, and/or gravel ranging in age from Quaternary to Cretaceous. Coastal Plain soils were encountered underlying the existing fill in all borings except Borings B-7, B-8, B-11, and B-15. The soils in this strata are loose, unconsolidated soil or sediment which has been eroded and reshaped by water in some form. The soils of this stratum were identified or classified as SILTY SAND (SM), CLAYEY SAND (SC), LEAN CLAY (CL), SILTY GRAVEL (GM), POORLY-GRADED GRAVEL (GP), SILT (ML), and POORLY-GRADED SAND (SP). The SPT N-values recorded in these soils ranged from 3 bpf to 50 blows over 5 inches of split spoon penetration, indicating a firm to very stiff consistency for fine-grained soils and a very loose to very dense relative density for coarse-grained soils in this stratum.

Groundwater
Groundwater was encountered at the depths of 7.7 feet and 13 feet during the drilling in Borings B-01 and B-13, respectively. Groundwater was not encountered within the other borings during drilling or upon completion of drilling. The borings except Borings B-01, B-05, B-10, and B-13 were backfilled immediately upon completion of drilling for public safety reasons. Temporary PVC standpipes were installed within Borings B-01, B-05, B-10, and B-13 prior to backfill.

Groundwater readings were taken at Borings B-01, B-05, B-10, and B-13 at 72 hours after completion of drilling. Groundwater was not encountered 72 hours after completion of drilling within these borings. It should be noted that due to backfilling of the borings upon completion, groundwater may not have had time to enter the borings or reach its hydrostatic level. Groundwater may still be present at the locations and/or depths not indicated from the borings since stabilized groundwater readings were not obtained due to public safety concerns. Groundwater levels fluctuate with seasonal and climatic variations and may be different at other times and locations than those stated in this report.

Groundwater readings were not taken at Borings B-01, B-05, B-10, and B-13 at 72 hours after completion of drilling. Groundwater was not encountered 72 hours after completion of drilling within these borings. It should be noted that due to backfilling of the borings upon completion, groundwater may not have had time to enter the borings or reach its hydrostatic level. Groundwater may still be present at the locations and/or depths not indicated from the borings since stabilized groundwater readings were not obtained due to public safety concerns. Groundwater levels fluctuate with seasonal and climatic variations and may be different at other times and locations than those stated in this report.

bearing capacity at the bottom of the foundation (including the bottom of the boulder retaining wall excavation) is adequate for the design loads.

Settlement of a structure is a function of the compressibility of the natural soils, the design bearing pressure, structural loads, and the footing embedment depths. For the anticipated loads and bearing conditions, total settlement of less than one inch and differential settlement of less than 1/8 inches over a 30-foot span are expected.

4.2. PAVEMENT DESIGN

No traffic data was available at the time of this report. We have assumed a design AADT of 400 or less. The lab testing results show CBR of 10.0 and we used a California Bearing Ratio (CBR) value of 7.0 (3 of the tested CBR value) for the design of the pavement within the park. This design CBR value assumes that the pavement subgrade will consist of onsite soils and will be prepared in accordance with the Site and Subgrade Preparation and Compacted Fills sections of this report.

For concrete pavements, assuming only light vehicle traffic (automobiles) and periodic bucket trucks are permitted to travel, DMV recommends the minimum pavement section presented in Table 4-1 below. The pavement design was performed in accordance with the Guidelines for 1993 AASHTO Pavement Design, which was published by VDOT and revised in July 2011. DMV understands that the actual concrete thickness will be 8 inches as shown on the plans titled *New Park at S. Eads St and Army Navy Drive, Construction Details, L312*. Our concrete pavement recommendations assume that the concrete will be non-dowelled and jointed plain concrete.

Minimum Slab Thickness (in)	Minimum Aggregate Thickness (in)	Maximum Transverse Joint Spacing (ft)	Minimum 28-day Concrete Flexural Strength (psi)	Minimum CBR
5	6	8	650	7

Permeable paver construction should be in conformance with the Arlington County Construction Standards and Specifications Manual, Section 02780 (2020).

It should be noted that the light-duty pavement is designed for supporting light vehicular traffic (automobiles) and periodic bucket trucks only. Any appreciable amount of truck traffic, either during construction or during service life, will likely cause excessive distress in the pavement. This could eventually result in the premature failure of the pavement structure.

4.3. HIGHLY PLASTIC SOILS

6

South Eads Park
DMV Project No. 01.05718.01
May 2, 2022

3.3. INFILTRATION TESTING

Four (4) infiltration tests were performed at infiltration test locations INF-1 through INF-4 to determine the general infiltration capabilities of the soils at the site. Constant head borehole infiltration test was conducted in the infiltration test borings using the Aardark automated permeameter device in accordance with Virginia DEQ and the Arlington County Stormwater Manual requirements. The Aardark Permeameter estimates soil hydraulic conductivity using the amount of supplied water measured at equal time intervals. This is equivalent to the amount of water that was infiltrated by soil. Soil-water infiltration rate is the amount of percolated water over time which is equivalent to the reservoir flow rate. The measurement ends when the reservoir flow rate does not change over several consecutive readings and a steady state flow is observed. Due to the sensitivity of the equipment, some minor fluctuations require that the steady state be manually interpreted. Soil hydraulic conductivity (K_{sat}) is then calculated using the steady flow rate using the Earth Manual method and is also corrected for temperature.

Table 3-1 below summarizes the saturated hydraulic conductivity (K_{sat}), infiltration test depth, and USDA soil classification at each infiltration test location and its adjacent SPT boring. The infiltration test results are included in Appendix D.

The saturated hydraulic conductivity (K_{sat}), testing depths, and USDA soil classification. The Virginia DEQ requires that reports that the Seasonal High Water Table be at least 2 feet below the invert elevation. Groundwater was encountered within boring B-01 at a depth of 7.7 feet and within Boring B-13 at 13.0 ft.

The Virginia DEQ Stormwater Design Specification No. 8 states that infiltration practices should not be sited above fills soils. Fill soils were encountered throughout the site at depths ranging from 2.0 to 14.2 feet below existing grades. Refer to the boring logs in Appendix B of this report for depths and elevations of existing fill as encountered within the borings.

Infiltration Test Location	Infiltration Test Depth (ft)	K_{sat} (in/hr)	Adjacent SPT Boring	Soil Classification at Infiltration Test Depth
INF-01	5.0	0.19	B-01	Sandy Loam
INF-02	5.0	1.34	B-05	Loamy Sand
INF-03	5.0	0.55	B-10	Loam Sand
INF-04	5.0	0.26	B-13	Sandy Loam

4.0 GEOTECHNICAL RECOMMENDATIONS

4.1. FOUNDATION DESIGN

Based on information provided by the structural engineer, the maximum anticipated load for the helical piers and sonotubes supporting the boardwalk structures will be 5.3 kips. Loading for the streetlights were not provided, however, we have assumed loading to be less than 1 kip. The size of the boulders for

Highly plastic soils were not encountered in the borings. However, highly plastic soils are common in this geology and can exhibit significant shrinkage and/or swelling due to changes in moisture content and should not be used as structural fill if encountered during construction.

If highly plastic soils are encountered at or below the foundation bearing level or bottom of helical pier cap, the highly plastic soil should be undercut a depth of 4 feet below the proposed finished grade at footing or pile cap locations. The foundation may either step down to meet this requirement, or the highly plastic soils can be undercut and replaced with properly compacted engineered fill to the original bearing elevation. Undercutting backfilling with gravel or free draining material is not recommended as this would create a reservoir condition which could saturate the plastic soils.

If highly plastic soils are encountered within 2 feet below the pavement elevation, they should be undercut to a depth of two feet, or the thickness of the highly plastic soils, whichever is less. The undercut area should then be backfilled using engineered fill placed in accordance with the recommendations contained within Section 5.2 *Controlled Fills* of this report.

4.4. BOULDER RETAINING WALL

4.4.1. DESIGN PARAMETERS

The boulder retaining walls should be designed to withstand lateral earth pressures and surcharge loads. The boulder retaining walls will be supporting new fill. We recommend that the following parameters be used for the retaining wall design:

- Friction Angle for Soil Backfill 28°
- Unit Weight of Soil Backfill 120 pcf
- Coefficient of Sliding Friction 0.35*
- Equivalent Active Fluid Pressure 45 pcf
- Equivalent Passive Fluid Pressure 230 pcf
- Equivalent At-rest Fluid Pressure 60 pcf

In the design calculations, the resisting forces computed using the above recommended passive earth pressure coefficient, equivalent passive fluid pressure, and coefficient of sliding friction should be reduced using a safety factor of 1.5.

The above recommended soil parameters assume that the wall backfill consist of properly compacted onsite SILTY SAND (SM) or more granular soils. The recommended equivalent fluid pressures assume that constantly functioning drainage systems are installed between the walls and the soil backfill to prevent any accidental buildup of hydrostatic pressures. The wall design should also account for any surcharge loads.

Active earth pressure conditions apply to relatively flexible earth retention structures, such as freestanding walls, where some movement and rotation may occur to mobilize soil shear strength. This will likely be the case for the proposed site retaining walls.

All wall backfill should consist of SILTY SAND (SM) or more granular material and should be placed in accordance with the *Compacted Fills* section of this report. Heavy earthwork equipment should maintain

7

South Eads Park
DMV Project No. 01.05718.01
May 2, 2022

the boulder walls was not provided; however, DMV has assumed that the boulders will be the "large" designation (1.5 ft, W 2.0 ft, H 1.2 ft) as shown on page L312 of the plans titled *New Park at S. Eads St and Army Navy Drive, 80% Construction Documents, Construction Details* sheet L312.

4.1.1 BOARDWALK

Helical Piers:

Helical piers consist of a steel shaft with a single helix that is screwed into the ground until competent bearing material is achieved. Additional steel pier sections (no helix) are added as the anchors are advanced into the ground surface. Helical piers are normally designed by a design-build contractor and the proposed plan is reviewed by the Geotechnical Engineer of Record. The capacity of the helical piers is determined through torque readings observed during installation. The torque required to achieve the required bearing pressure is determined prior to the installation so that the required depth can be evaluated during the installation. The final pier design is typically performed by a design-build contractor; however, a preliminary vertical capacity of up to 30 kips is typically feasible. It is our experience that these types of piers do not function well under eccentric loading and the designer will need to consider any lateral loading in the design. One critical advantage of the helical piers is the relatively small equipment criteria. Helical piers may be installed using hand operated equipment or skid steer. Depending on the final design and any lateral or uplift loading, the piers may also incorporate a concrete or grouting to increase the lateral and uplift capacities of the piers.

Very loose to loose materials were encountered during our field investigation at various depths. The piers should not bear on the soft or loose materials, or any debris. The piers should bear on the firm soils (such as medium dense Coastal Plain Deposits). In addition to the above requirements, helical piers should be installed a minimum of five (5) helix diameters below ground surface, where the helix diameter is that of the largest helix.

Helical piers should be installed in a smooth, continuous manner at a rate ranging from 5 to 20 revolutions per minute. Sufficient down pressure should be applied to advance the helical piers to the required depths. Extensions may be required to advance the helical piers to the required depths. The installation torque should be monitored throughout the installation process and should at no time exceed the torque rating of the helical pier shafts.

Written installation records should be maintained for each helical pier, and should include, but are not limited to, project name and/or location, date and time of installation, location and reference number of helical piers, descriptions of lead section and extensions installed, overall depth of installation as referenced from bottom of grade beam or footing, torque readings for the last three feet of installation if practical, and any other applicable information relating to the installation.

Sonotube Foundations:

The sonotube foundations should be considered shallow foundations if the embedment depth to diameter ratio is less than five (5) and should be considered deep foundations if the embedment depth to diameter ratio is greater than five (5). For design of sonotube as shallow foundations bearing on medium dense natural soils, we recommend that an allowable soil bearing pressure of 2,000 pounds per square foot (psf) be utilized to size the sonotube foundations.

8

South Eads Park
DMV Project No. 01.05718.01
May 2, 2022

The lateral capacity of a foundation is derived from the passive earth pressure at the foundation side and friction at the foundation base. For footings supported on natural soils consisting of SILTY SAND or CLAYEY SAND, the following parameters may be used to estimate the lateral capacities of sonotube foundations at this site:

- Soil Unit Weight 115 pcf
- Coefficient of Sliding Friction 0.34
- Passive Earth Pressure Coefficient (K_p) 2.37

A minimum safety factor of 1.5 is recommended in evaluating the lateral capacity of the shallow foundations. The uplift capacity of a foundation is derived from its self-weight and the weight of the soil column directly above the footprint of the foundation. A minimum safety factor of 1.67 is recommended in evaluating the uplift capacity.

4.1.2 BOULDER RETAINING WALLS

Boulder retaining walls, also known as rockeries, are planned at various locations in the portion of the site north of 11th Street South and near the northern entrance to the park in the portion south of 11th Street South. Boulder retaining walls have relatively low tolerance for settlement due to the rocks not being structurally tied together. Unsuitable existing fill materials were throughout the site. In the portion of the site north of 11th Street South, existing fill was encountered at depths ranging from 2 to 6 feet. In the portion of the site south of 11th Street South, existing fill soils were encountered at deeper depths, extending to depths between 6 and 14.2 feet.

In the portion of the site north of 11th Street South, boulder retaining walls on firm natural soils or new controlled fills placed and compacted in accordance with Section 5.2 of this report may be designed for an allowable bearing capacity of 2,000 psf. The existing fill soils are not suitable for support of the boulder retaining walls. Where existing fill is encountered at the foundation subgrade, the footings should be lowered to undisturbed, natural residual soils. Alternatively, the existing fill materials may be undercut and replaced with compacted engineered fill.

In the portion of the site south of 11th Street South, the existing fill extended to depths which may make removal of the existing fill infeasible. DMV recommends that the boulder retaining wall on the southern portion of the site be supported by helical piers with pile cap. The helical piers should extend to natural soil.

4.1.3 STREETLIGHTS

For design of streetlight foundations on firm natural soils, we recommend that an allowable soil bearing pressure of 1,500 pounds per square foot (psf) be utilized to size the streetlight foundations. The lateral capacity of a foundation is derived from the passive earth pressure at the foundation side and friction at the foundation base. For footings supported on natural soils consisting of SILTY SAND or CLAYEY SAND, the following parameters may be used to estimate the lateral capacities of streetlight foundations at this site:

9

South Eads Park
DMV Project No. 01.05718.01
May 2, 2022

- Soil Unit Weight 115 pcf
- Coefficient of Sliding Friction 0.34
- Passive Earth Pressure Coefficient (K_p) 2.37

A minimum safety factor of 1.5 is recommended in evaluating the lateral capacity of the shallow foundations. The uplift capacity of a foundation is derived from its self-weight and the weight of the soil column directly above the footprint of the foundation. A minimum safety factor of 1.67 is recommended in evaluating the uplift capacity.

4.1.4 EXISTING FILL

Existing fill soils were encountered throughout the project site at depths ranging from 2.0 to 14.2 feet. The existing fill soils are not suitable for foundation support. Where encountered above the bottom of footing for shallow foundations or the bottom of the boulder retaining walls, the existing fill should be removed and replaced with properly placed and compacted controlled fill in conformance with Section 5.2 *Controlled Fills*. Alternatively, the foundation may be lowered to the undisturbed, natural soil. Helical pier foundations should extend beneath the existing fill soils and should terminate in medium dense Coastal Plain Deposits.

Unsuitable existing fill extended to the following depths in the vicinity of the proposed structures:

- 4.0 to 6.0 feet within the borings in the vicinity of the proposed boardwalk;
- 4.0 to 6.0 feet within the borings in the vicinity of South Eads Street where streetlights are planned;
- 2.0 to 6.0 feet north of 11th Street South in the vicinity of the proposed boulder retaining walls;
- 2.0 to 6.0 feet north of 11th Street South in the vicinity of the proposed boulder retaining walls;
- 6.0 to 14.2 feet south of 11th Street South in the vicinity of the proposed boulder retaining walls.

4.1.5 GENERAL FOUNDATION RECOMMENDATIONS

During construction, the bearing capacity at the final footing excavation should be documented in the field by an authorized representative of the Geotechnical Engineer of Record to check that the in situ bearing capacity at the bottom of each footing excavation is adequate for the design loads. Where existing fill is encountered at the foundation subgrade, the footings should be lowered to undisturbed, natural Coastal Plain soils. Alternatively, the existing fill materials may be undercut and replaced with compacted engineered fill.

In order to prevent disproportionately small footing sizes, we recommend that sonotubes, streetlights, and shallow foundations have a minimum lateral dimension of 24 inches. The minimum dimensions recommended above help reduce the possibility of foundation bearing failure and excessive settlement due to local shear or "punching" action. All footings should be placed at a minimum depth of 30 inches below finished grade to provide adequate frost cover protection acceptable for this region. New footings should be a minimum distance of 10 feet from any existing footings. The base of footing should not be within the 1 1/2 to 1 (Horizontal to Vertical) projected influence zone above any utility line.

During construction, the bearing capacity at the final footing excavation should be documented in the field by an authorized representative of the Geotechnical Engineer of Record to check that the in situ

10

South Eads Park
DMV Project No. 01.05718.01
May 2, 2022

bearing capacity at the bottom of the foundation (including the bottom of the boulder retaining wall excavation) is adequate for the design loads.

Settlement of a structure is a function of the compressibility of the natural soils, the design bearing pressure, structural loads, and the footing embedment depths. For the anticipated loads and bearing conditions, total settlement of less than one inch and differential settlement of less than 1/8 inches over a 30-foot span are expected.

4.2. PAVEMENT DESIGN

No traffic data was available at the time of this report. We have assumed a design AADT of 400 or less. The lab testing results show CBR of 10.0 and we used a California Bearing Ratio (CBR) value of 7.0 (3 of the tested CBR value) for the design of the pavement within the park. This design CBR value assumes that the pavement subgrade will consist of onsite soils and will be prepared in accordance with the *Site and Subgrade Preparation and Compacted Fills* sections of this report.

For concrete pavements, assuming only light vehicle traffic (automobiles) and periodic bucket trucks are permitted to travel, DMV recommends the minimum pavement section presented in Table 4-1 below. The pavement design was performed in accordance with the Guidelines for 1993 AASHTO Pavement Design, which was published by VDOT and revised in July 2011. DMV understands that the actual concrete thickness will be 8 inches as shown on the plans titled *New Park at S. Eads St and Army Navy Drive, Construction Details, L312*. Our concrete pavement recommendations assume that the concrete will be non-dowelled and jointed plain concrete.

Minimum Slab Thickness (in)	Minimum Aggregate Thickness (in)	Maximum Transverse Joint Spacing (ft)	Minimum 28-day Concrete Flexural Strength (psi)	Minimum CBR
5	6	8	650	7

Permeable paver construction should be in conformance with the Arlington County Construction Standards and Specifications Manual, Section 02780 (2020).

It should be noted that the light-duty pavement is designed for supporting light vehicular traffic (automobiles) and periodic bucket trucks only. Any appreciable amount of truck traffic, either during construction or during service life, will likely cause excessive distress in the pavement. This could eventually result in the premature failure of the pavement structure.

4.3. HIGHLY PLASTIC SOILS

11

South Eads Park
DMV Project No. 01.05718.01
May 2, 2022

Highly plastic soils were not encountered in the borings. However, highly plastic soils are common in this geology and can exhibit significant shrinkage and/or swelling due to changes in moisture content and should not be used as structural fill if encountered during construction.

If highly plastic soils are encountered at or below the foundation bearing level or bottom of helical pier cap, the highly plastic soil should be undercut a depth of 4 feet below the proposed finished grade at footing or pile cap locations. The foundation may either step down to meet this requirement, or the highly plastic soils can be undercut and replaced with properly compacted engineered fill to the original bearing elevation. Undercutting backfilling with gravel or free draining material is not recommended as this would create a reservoir condition which could saturate the plastic soils.

If highly plastic soils are encountered within 2 feet below the pavement elevation, they should be undercut to a depth of two feet, or the thickness of the highly plastic soils, whichever is less. The undercut area should then be backfilled using engineered fill placed in accordance with the recommendations contained within Section 5.2 *Controlled Fills* of this report.

4.4. BOULDER RETAINING WALL

4.4.1. DESIGN PARAMETERS

The boulder retaining walls should be designed to withstand lateral earth pressures and surcharge loads. The boulder retaining walls will be supporting new fill. We recommend that the following parameters be used for the retaining wall design:

- Friction Angle for Soil Backfill 28°
- Unit Weight of Soil Backfill 120 pcf
- Coefficient of Sliding Friction 0.35*
- Equivalent Active Fluid Pressure 45 pcf
- Equivalent Passive Fluid Pressure 230 pcf
- Equivalent At-rest Fluid Pressure 60 pcf

In the design calculations, the resisting forces computed using the above recommended passive earth pressure coefficient, equivalent passive fluid pressure, and coefficient of sliding friction should be reduced using a safety factor of 1.5.

The above recommended soil parameters assume that the wall backfill consist of properly compacted onsite SILTY SAND (SM) or more granular soils. The recommended equivalent fluid pressures assume that constantly functioning drainage systems are installed between the walls and the soil backfill to prevent any accidental buildup of hydrostatic pressures. The wall design should also account for any surcharge loads.

Active earth pressure conditions apply to relatively flexible earth retention structures, such as freestanding walls, where some movement and rotation may occur to mobilize soil shear strength. This will likely be the case for the proposed site retaining walls.

All wall backfill should consist of SILTY SAND (SM) or more granular material and should be placed in accordance with the *Compacted Fills* section of this report. Heavy earthwork equipment should maintain

12



ARLINGTON VIRGINIA

DEPARTMENT OF PARKS AND RECREATION

Park Development Division
2100 Clarendon Boulevard, Suite 414
Arlington, VA 22201
Phone: 703.228.3332
Fax: 703.228.3328

ITB #23-DPR-ITBPW-450

#SWM 22-0224

Project Name and Location
ARLINGTON JUNCTION PARK

FINAL PLAN

1051 SOUTH EADS STREET

ARLINGTON, VIRGINIA

Sheet Title

GEOTECHNICAL REQUIREMENTS

Approval Date

Design Supervisor

Revisions Date
CEP#2 12/21/2022

CEP#3 06/02/2023

BUILDING PERMIT 02/15/2023

REVISED BUILDING PERMIT 04/20/2023

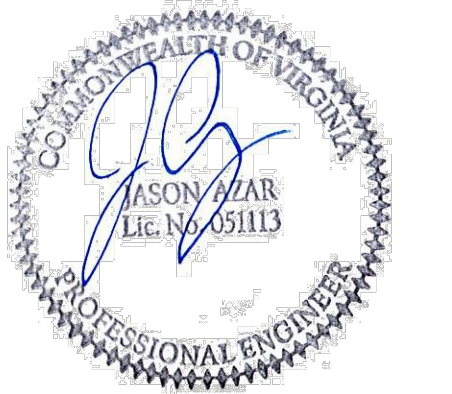
CEP#4 07/21/2023

Designed: ME
Drawn: ME
Checked: JA

Filename:
Plotted:

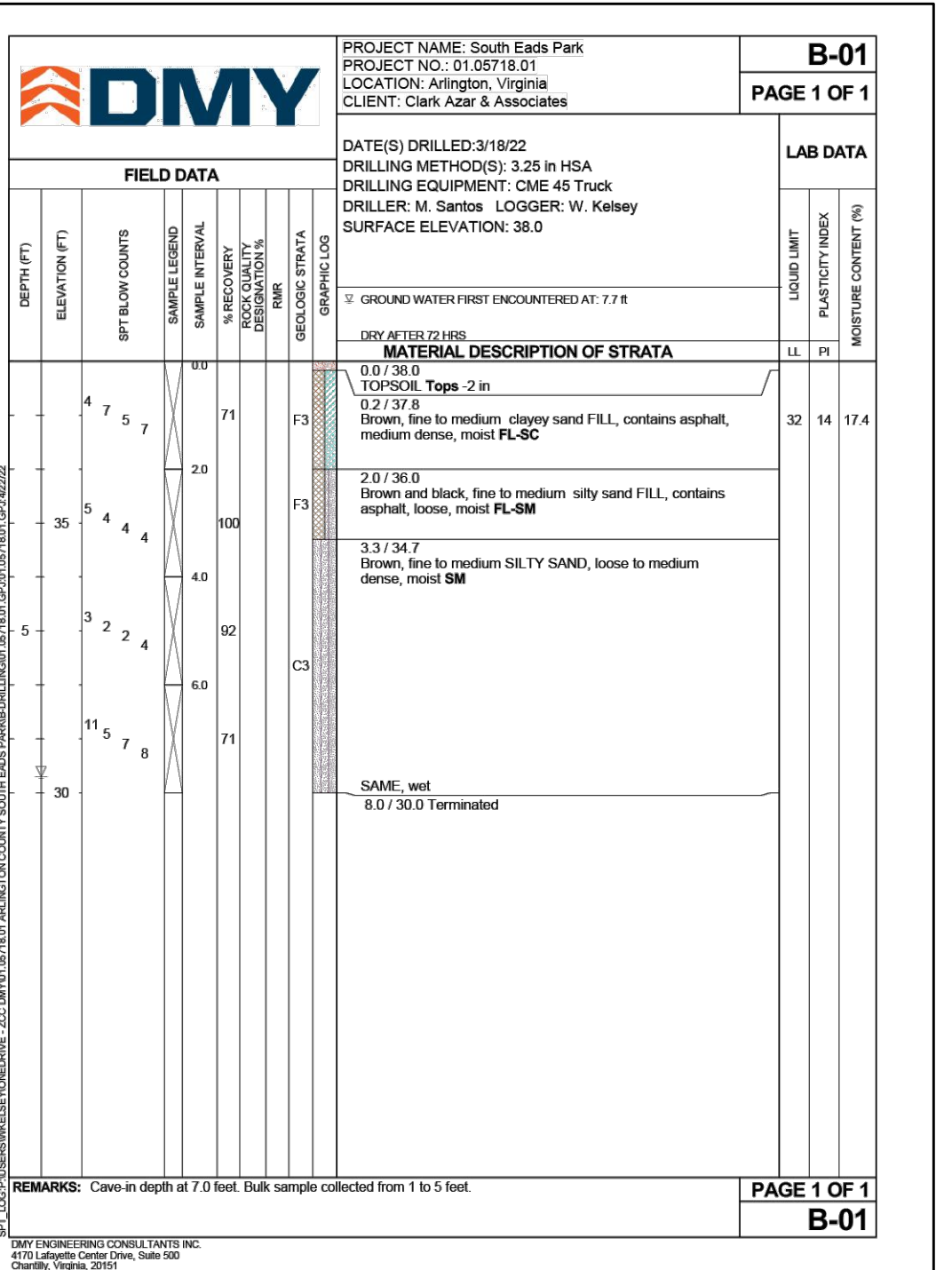
Scale: AS SHOWN
Date: July 21, 2023

Seal



Sheet

C9.030

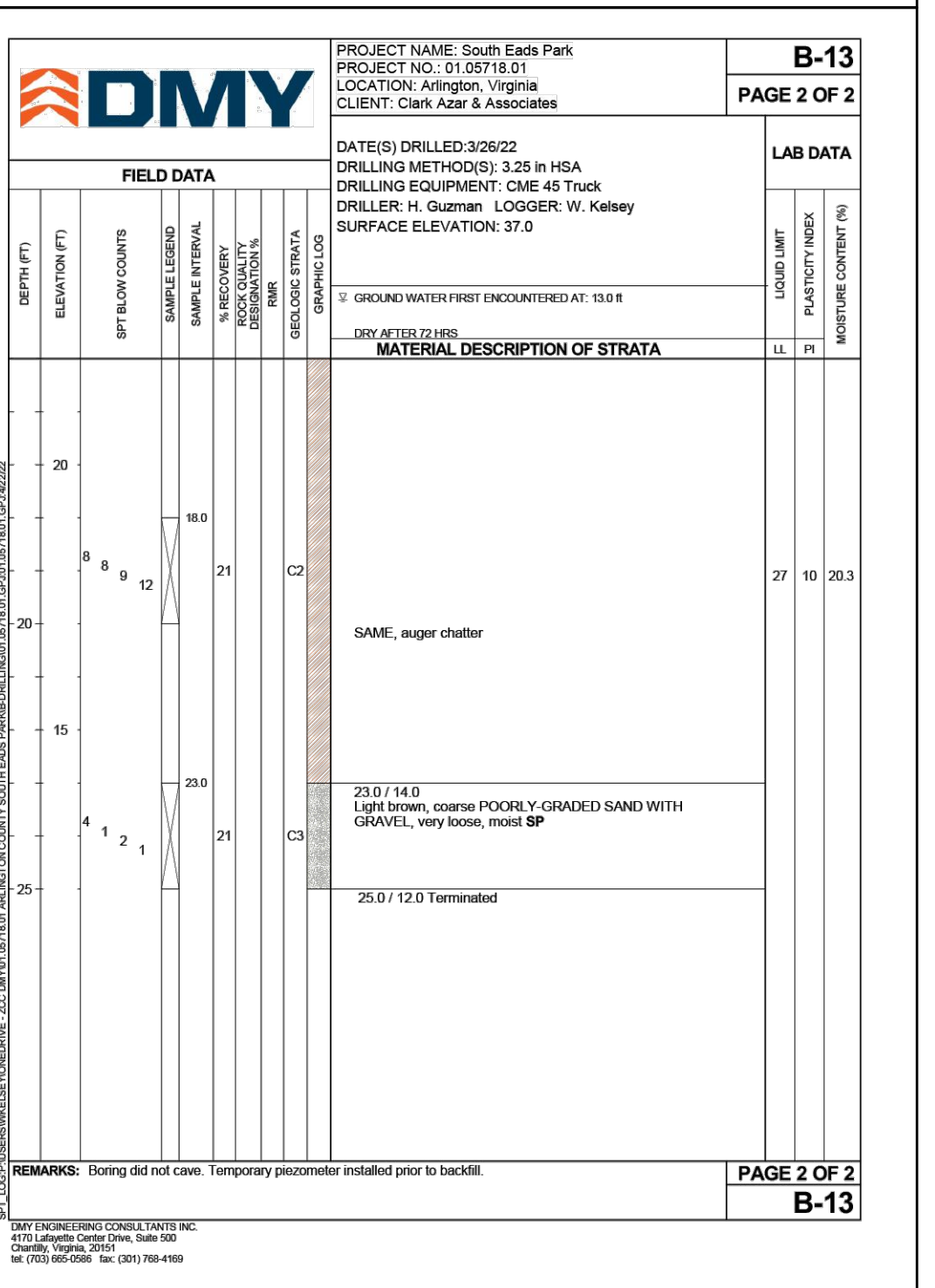


Textual content for boring B-01, including site description, construction water control, and monitoring details.

Textual content for boring B-10, including site description, construction water control, and monitoring details.

Textual content for boring B-08, including site description, construction water control, and monitoring details.

Textual content for boring B-01, including site description, construction water control, and monitoring details.



Textual content for boring B-13, including site description, construction water control, and monitoring details.

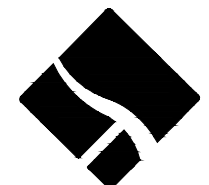
Textual content for boring B-10, including site description, construction water control, and monitoring details.

Textual content for boring B-10, including site description, construction water control, and monitoring details.

Textual content for boring B-08, including site description, construction water control, and monitoring details.

Project information block including: ARLINGTON COUNTY, VIRGINIA DEPARTMENT OF ENVIRONMENTAL SERVICES; GEOTECHNICAL REQUIREMENTS; ARLINGTON JUNCTION PARK-CIVIL ENGINEERING PLAN; 1051 SOUTH EADS STREET; ARLINGTON COUNTY, VA; SCALE: AS SHOWN; SHEET C9.030.

- NOTES:
1. PERMEABLE PAVEMENT #1 IS IN THE PROXIMITY OF BORING B-01.
2. PERMEABLE PAVEMENT #2 IS IN THE PROXIMITY OF BORING B-08.
3. PERMEABLE PAVEMENT #3 IS IN THE PROXIMITY OF BORING B-13.
4. MICRO-BIORETENTION #1 IS IN THE PROXIMITY OF BORING B-10.
5. SEASONAL HIGH WATER TABLE (SHWT) WAS OBSERVED AT ELEVATIONS OF 7.7' (B-01) AND 13.0' (B-13) BELOW EXISTING GRADE. DEPTH TO BOTTOM OF PROPOSED STORMWATER MANAGEMENT FACILITIES EXCEEDS 2' MIN. REQUIREMENT.



ARLINGTON VIRGINIA

DEPARTMENT OF PARKS AND RECREATION

Park Development Division
2100 Clarendon Boulevard, Suite 414
Arlington, VA 22201
Phone: 703.228.3332
Fax: 703.228.3328

ITB #23-DPR-ITBPW-450

#SWM 22-0224

Project Name and Location

ARLINGTON JUNCTION PARK

FINAL PLAN

1051 SOUTH EADS STREET

ARLINGTON, VIRGINIA

Sheet Title

TREE PROTECTION PLAN

Approval Date

Design Supervisor

Revisions Date

CEP#1 7/15/2021

CEP#2 12/21/2023

BUILDING PERMIT 02/15/2023

REVISED BUILDING PERMIT 04/20/2023

CEP #4 7/20/2023

Designed:

Drawn: JC, SM

Checked: SM, CF

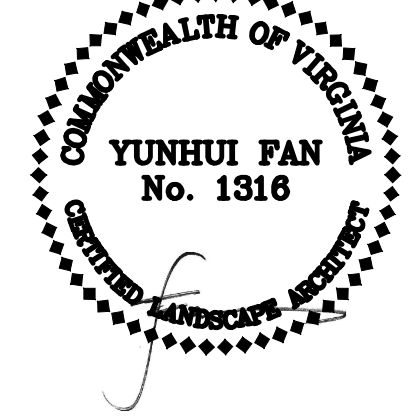
Filename:

Plotted:

Scale: AS SHOWN

Date: 04/20/2023

Seal



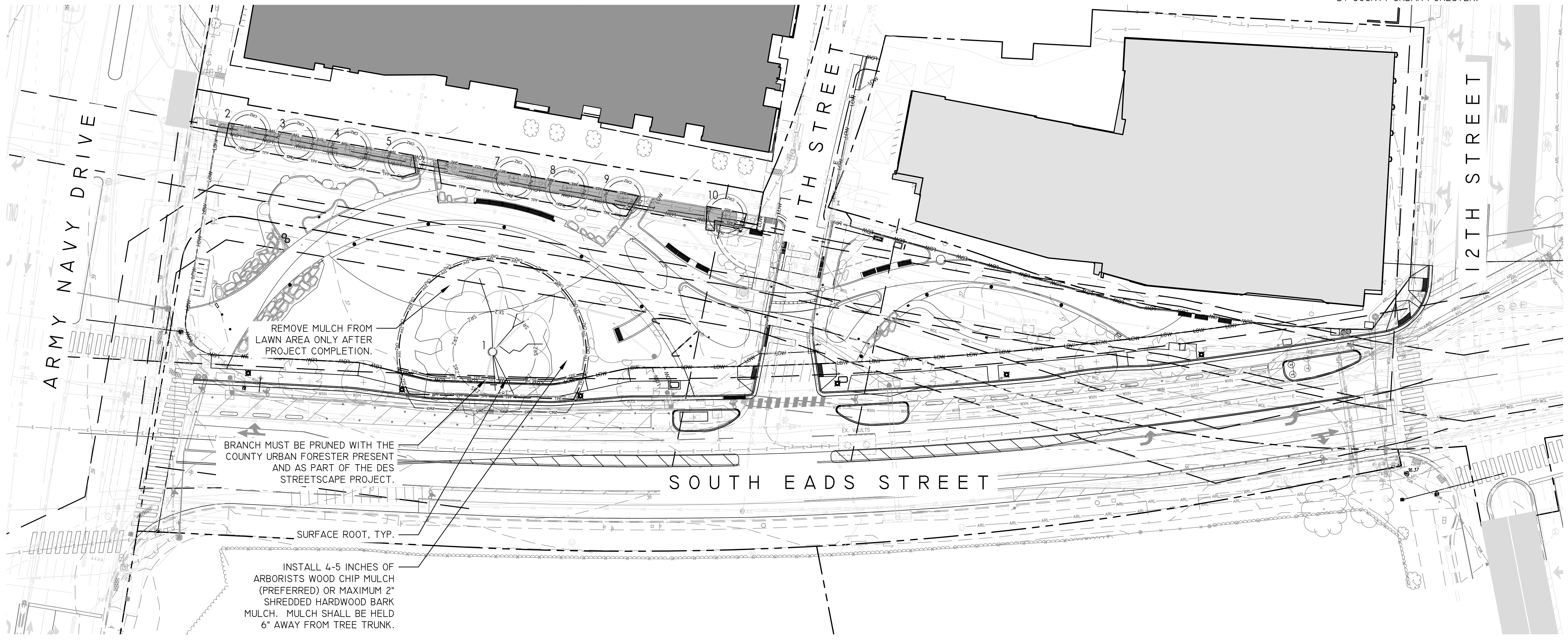
Sheet **TP101**

TREE PROTECTION LEGEND

- LOW — LIMIT OF WORK
- CRZ — CRITICAL ROOT ZONE
- TPF — TREE PROTECTION FENCING
- RP — ROOT PRUNING

NOTE:

1. WITHIN LOW TREE PROTECTION FENCING REPRESENTS AREAS WHERE WORK MUST BE CONDUCTED UNDER SUPERVISION OF CONTRACTOR'S ARBORIST.
2. NO TRENCHING TO OCCUR WITHIN TREE PROTECTION AREA INCLUDING TRENCHING FOR IRRIGATION AND SITE LIGHTING.
3. ALL PRUNING TO BE PERSONALLY DIRECTED BY COUNTY URBAN FORESTER.

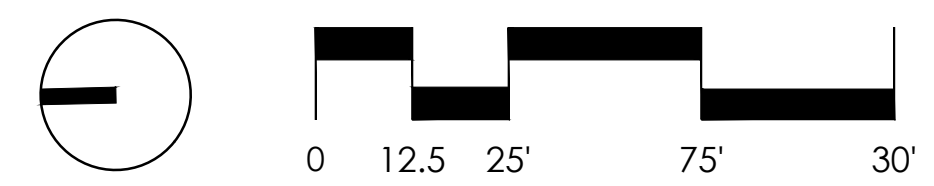


NOTE:
 TREE PROTECTION FENCE TO STAY UP FOR THE DURATION OF THE PROJECT. URBAN FORESTER TO GIVE APPROVAL FOR REMOVAL, AND TO BE NOTIFIED 72 HOURS IN ADVANCE OF ANY PROPOSED WORK WITHIN THE FENCE OR CRZ. DO NOT GRADE, SPREAD SOIL, OR DO SOIL PREPARATION WITHIN THE CRZ. DO NOT OPERATE EQUIPMENT AT ANY TIME WITHIN THE TREE CRZ WITHOUT PREAPPROVAL FROM THE URBAN FORESTER, IN WHICH CASE, UF MAY REQUIRE SOIL PROTECTION. SEE PLANTING SPECIFICATIONS. ACCESS TO THE AREA TO CONSTRUCT THE BOARDWALK IS ALLOWED WITH HAND EQUIPMENT ONLY AT THE DIRECTION OF THE INSPECTOR.

ARLINGTON COUNTY, VIRGINIA
DEPARTMENT OF ENVIRONMENTAL SERVICES

TREE PROTECTION PLAN
ARLINGTON JUNCTION PARK—CIVIL ENGINEERING PLAN
1051 SOUTH EADS STREET
ARLINGTON COUNTY, VA

SCALE: AS SHOWN SHEET TP101



TREE INVENTORY TABLE

ARLINGTON JUNCTION PARK - TREE INVENTORY										TREE PRESERVATION SPECIFICATIONS																						
ID	Botanic Name	Common Name	DBH (in.)	Critical Root Zone (in ft. radius per Arl. County 311300.3)	0-100 Condition Rating	Condition Rating	Species Rating	Species Impact Toler. (ANSI A300) P=Poor M=Moderate G=Good	Remarks	% CRZ Impact	Removal	Removal by Arborist	Grind Stump	Cut Vines @ Ground	Work in CRZ Oversight by Arborist	Root Prune - Supersonic Air - Spade (RP ^{SA})	Root Prune - Mechanical (RP ^M)	Existing Root Deflection	Tree Protection Fence (TPF) 6'x6' Ft. Chainlink	Trenchless Silt Fence in CRZ	Mulching in CRZ (MC)	Supplemental Watering (SW) c=during construction a#=#aftercare for # years	Root Aeration Matting (RAM)	LD-Light Duty HD-Heavy Duty	Growth Regulator (TGR)	Prune - To Manage Health (P ^{MH})	Prune - To Provide Clearance (P ^{CL})	Soil Management (SM)	Post-Construction Health Assessment (# of Years)			
SAMPLE	Quercus phellos	Willow Oak	12.7	12.7	90	Excellent	90	M-G																								
1	Populus deltoides	Eastern Cottonwood	43.4	65.1	77	Good	60	M-G	Ext. surface roots to dripline, all sides exc. north. V. lg. roots w/ hvy. damage. Dripline somewhat asymmetrical further out to south and east. Some lg. wounds from old breaks. Sounded w/ mallet, no decay detected. Little dead wood, has been maintained, two +/- 4" branches tbr. Clearance above ground: SE +/- 5" dia. at 7' ht. SE +/- 9" dia. at 5' ht. WNW +/- 20" dia. at 6.5' ht. Shows good vigor, sprouting on pruned open areas on 20" WNW branch. V. gd. foliage density overall. Foliar shot hole damage, prob. insect caused. Canopy structure: main trunk to 18' ht., then main ldr. narrows to +/- 25" and leans north. Lg. branch +/- 21" to east slightly subordinate to main. Roots: 68. Trunk: 85. Canopy: 75. Foliage/Vigor: 80.	±11%																						
2	Quercus phellos	Willow Oak	5.0	8.0	70	Good	50	M	Condition, size, and species by Rice & Associates 2018, Q phellos is not County property	0%																						
3	Quercus phellos	Willow Oak	5.0	8.0	70	Good	50	M	Condition, size, and species by Rice & Associates 2018, Q phellos is not County property	0%																						
4	Quercus phellos	Willow Oak	5.0	8.0	70	Good	50	M	Condition, size, and species by Rice & Associates 2018, Q phellos is not County property	0%																						
5	Quercus phellos	Willow Oak	5.0	8.0	70	Good	50	M	Condition, size, and species by Rice & Associates 2018, Q phellos is not County property	10%																						
6	NOT USED																															
7	Quercus phellos	Willow Oak	5.0	8.0	70	Good	50	M	Condition, size, and species by Rice & Associates 2018, Q phellos is not County property	0%																						
8	Quercus phellos	Willow Oak	5.0	8.0	70	Good	50	M	Condition, size, and species by Rice & Associates 2018, Q phellos is not County property	0%																						
9	Quercus phellos	Willow Oak	5.0	8.0	70	Good	50	M	Condition, size, and species by Rice & Associates 2018, Q phellos is not County property	28%																						
10	Quercus phellos	Willow Oak	5.0	8.0	70	Good	50	M	Condition, size, and species by Rice & Associates 2018, Q phellos is not County property	20%																						
REMARKS LEGEND										NOTES																						
a. Low vigor										1. CTLA Guide for Plant Appraisal (latest edition) methodology used to determine condition assessment. All observations taken at ground level.																						
b. Dieback in canopy										2. Information about trees on adjacent private property, if indicated, was estimated from the subject parcel or public right-of-way.																						
c. Canopy unbalanced										3. A Tree Risk Assessment was not conducted unless specifically noted otherwise.																						
d. Surface roots										4. Information shown is based solely on conditions at the times of inventory, Month, date 2021																						
e. Watersprouts										5. Inventory performed by Dave Norden except for portions indicated otherwise.																						
f. Measured below trunk branching										CTLA PLANT CONDITION CATEGORIES																						
g. Low live-crown ratio (LCR)										Excellent 81-100%																						
h. Trunk leaning										Good 61-80%																						
i. Vines on trunk										Fair 41-60%																						
j. Codominant leaders										Poor 21-40%																						
k. Girdling roots										Very Poor 6-20%																						
l. Discoloration on trunk										Dead 0-5%																						
m. Voids in the base / large branches																																
n. Wood decay fruiting found																																
p. Multistem																																
q. Excellent specimen																																

NOTES:

- SURVEY COMPLETED BY RICE ASSOCIATES UNDER RESPONSIBLE CHARGE OF DARRYL E. FORSYTHE BETWEEN THE DATES OF OCTOBER 15, 2018 AND DECEMBER 5, 2018.
- SURVEYOR PROVIDED LOCATION OF ALL TREES ON PROPERTY AND ADJACENT TO PROPERTY.
- AN INVENTORY OF TREES AFFECTED BY CONSTRUCTION WAS PERFORMED BY DAVE NORDEN, ISA CERTIFIED ARBORIST MA-5513A, ON NOVEMBER 12, 2019.
- CTLA GUIDE FOR PLANT APPRAISAL (LATEST EDITION) METHODOLOGY USED TO DETERMINE CONDITION ASSESSMENT. ALL OBSERVATIONS TAKEN AT GROUND LEVEL.
- A RISK ASSESSMENT WAS NOT CONDUCTED UNLESS SPECIFICALLY NOTED OTHERWISE.
- INFORMATION ABOUT TREES ON ADJACENT PRIVATE PROPERTY WAS ESTIMATED FROM SUBJECT PARCEL OR PUBLIC RIGHT-OF-WAY.
- INFORMATION SHOWN IS BASED SOLELY ON CONDITIONS AT THE TIME OF INVENTORY, AND ARE SUBJECT TO CHANGE AT ANY TIME.
- INSPECTION BY COUNTY URBAN FORESTER IS REQUIRED BEFORE ANY LAND DISTURBANCE ACTIVITY.



DEPARTMENT OF PARKS AND RECREATION

Park Development Division
2100 Clarendon Boulevard, Suite 414
Arlington, VA 22201
Phone: 703.228.3332
Fax: 703.228.3328

ITB #23-DPR-ITBPW-450

#SWM 22-0224

Project Name and Location

ARLINGTON JUNCTION PARK

FINAL PLAN

1051 SOUTH EADS STREET

ARLINGTON, VIRGINIA

Sheet Title

TREE INVENTORY TABLES

Approval Date

Design Supervisor

Revisions Date

CEP#1 7/15/2021

CEP#2 12/21/2023

BUILDING PERMIT 02/15/2023

REVISED BUILDING PERMIT 04/20/2023

CEP #4 7/20/2023

Designed:

Drawn: JC, SM

Checked: SM, CF

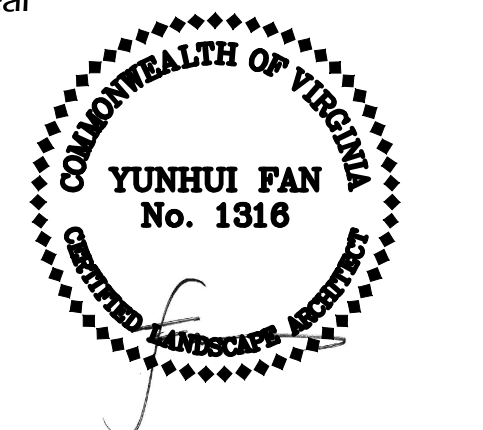
Filename:

Plotted:

Scale: AS SHOWN

Date: 04/20/2023

Seal



Sheet TP102

TREE REPLACEMENT TABLE

SOUTH EADS STREET
TREE INVENTORY AND REPLACEMENT SCHEDULE

Tree #	To Be Removed	DBH	Condition	Species	Common name	Species Rating	Replacement Score	Replacement Value	Required Replacements
01	60	75	Populus deltoides	Eastern Cottonwood	60	27	6	0	
02	5	70	Quercus phellos	Willow Oak	50	1.75	1	0	
03	5	70	Quercus phellos	Willow Oak	50	1.75	1	0	
04	5	70	Quercus phellos	Willow Oak	50	1.75	1	0	
05	5	70	Quercus phellos	Willow Oak	50	1.75	1	0	
06	NOT USED								
07	5	70	Quercus phellos	Willow Oak	50	1.75	1	0	
08	5	70	Quercus phellos	Willow Oak	50	1.75	1	0	
09	5	70	Quercus phellos	Willow Oak	50	1.75	1	0	
10	5	70	Quercus phellos	Willow Oak	50	1.75	1	0	
Total:									0

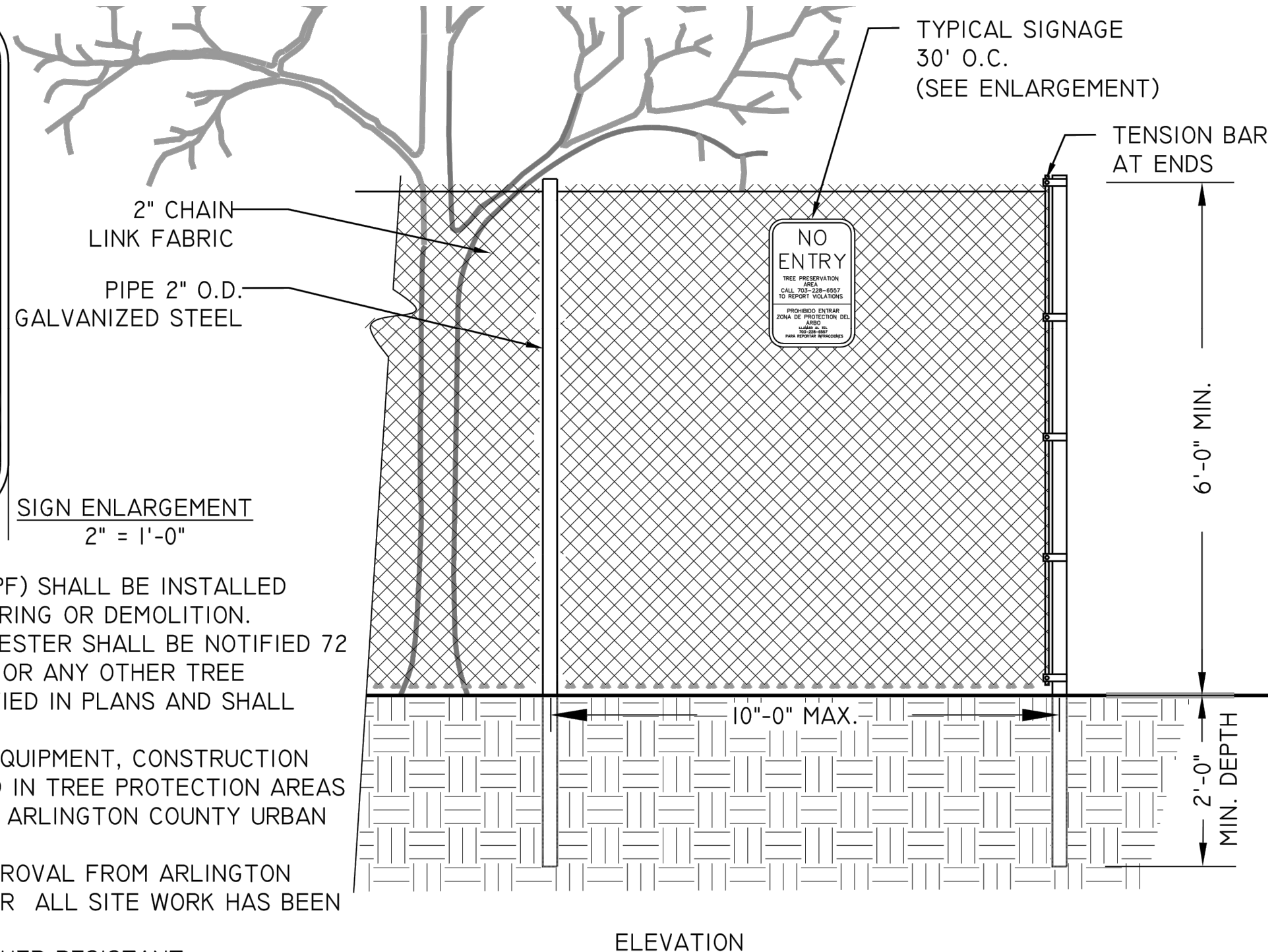
NOTE:

- NO TREES PROPOSED FOR REMOVAL FOR THIS PROJECT

ARLINGTON COUNTY, VIRGINIA
DEPARTMENT OF ENVIRONMENTAL SERVICES

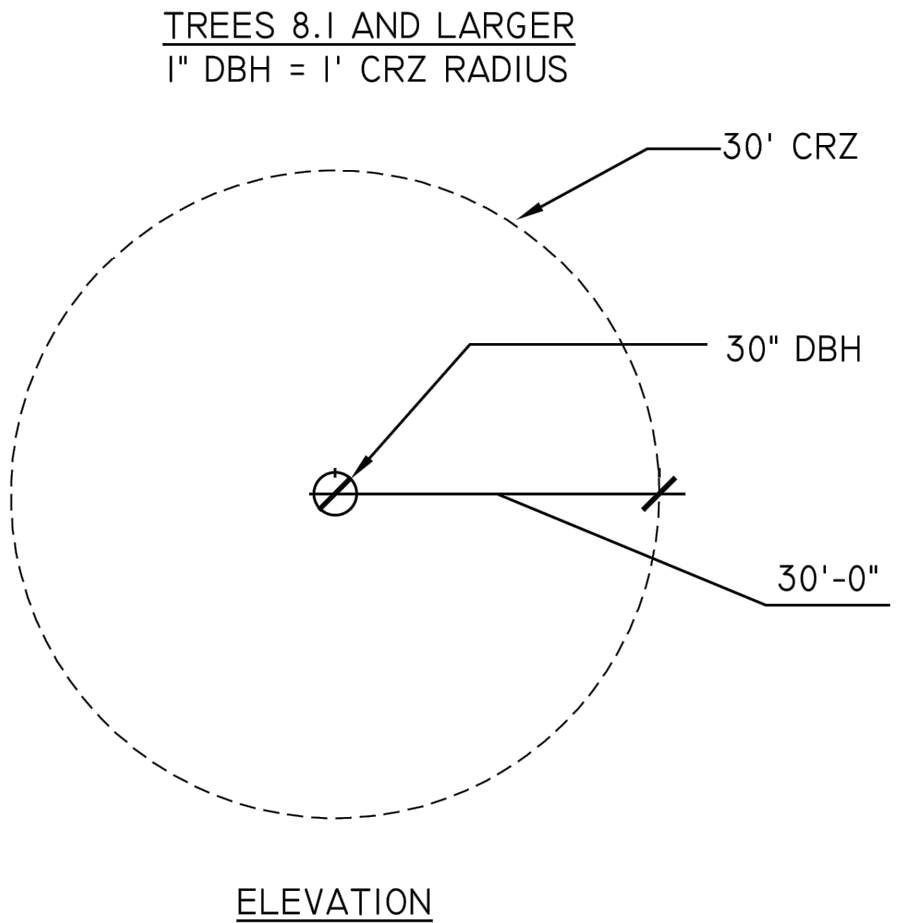
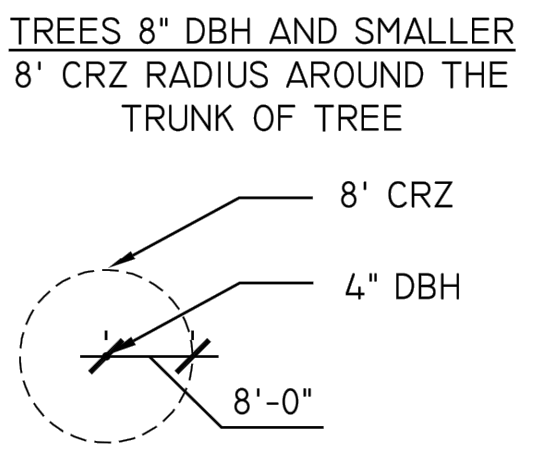
TREE INVENTORY TABLES
ARLINGTON JUNCTION PARK-CIVIL ENGINEERING PLAN
1051 SOUTH EADS STREET
ARLINGTON COUNTY, VA

SCALE: AS SHOWN SHEET TP102



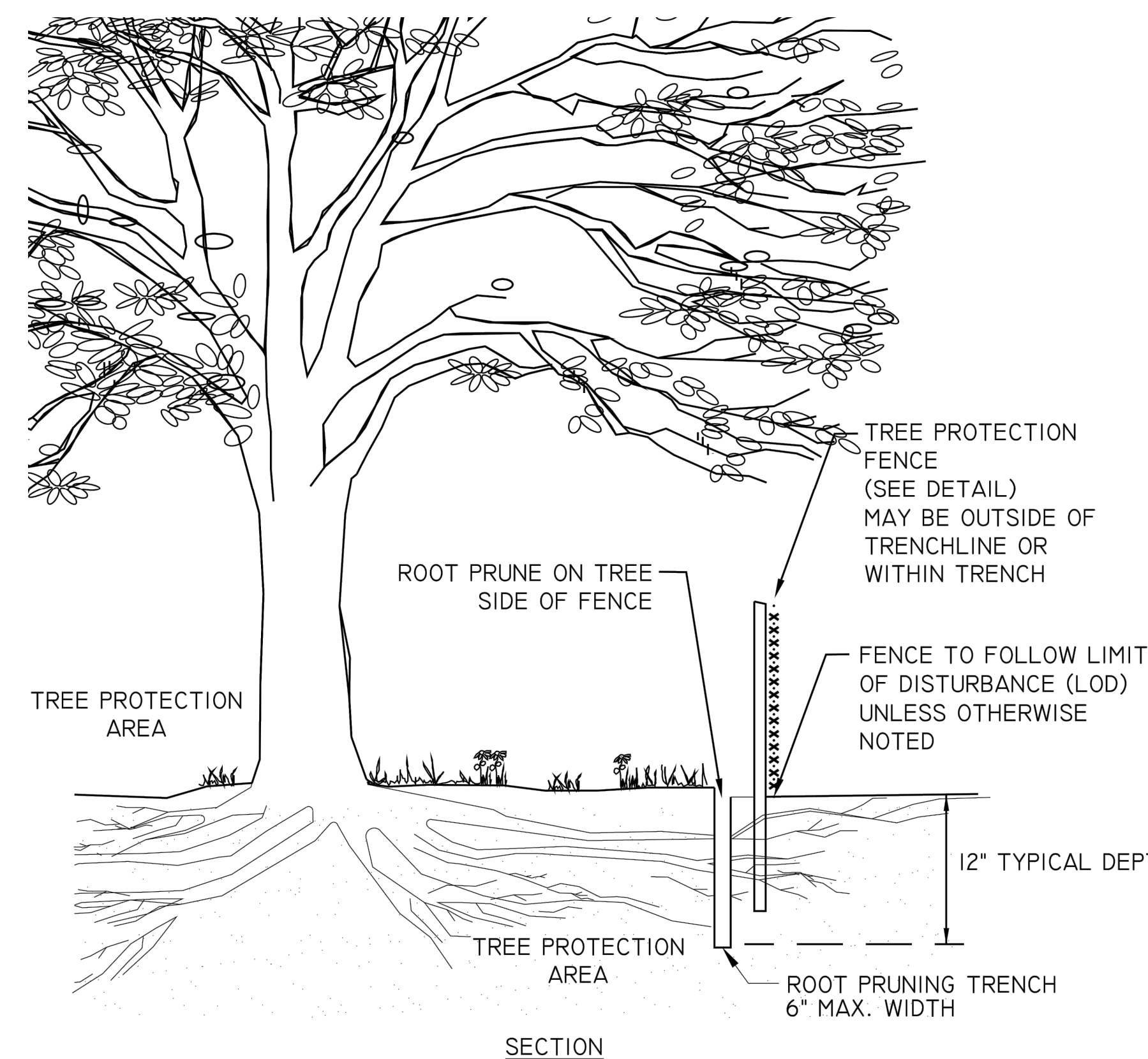
- NOTES:
1. TREE PROTECTION FENCE (TPF) SHALL BE INSTALLED PRIOR TO ANY SITE WORK, CLEARING OR DEMOLITION. ARLINGTON COUNTY URBAN FORESTER SHALL BE NOTIFIED 72 HOURS PRIOR TO INSTALLATION OR ANY OTHER TREE PRESERVATION MEASURE SPECIFIED IN PLANS AND SHALL APPROVE LAYOUT.
 2. NO PERSONNEL, VEHICLES, EQUIPMENT, CONSTRUCTION MATERIALS OR DEBRIS ALLOWED IN TREE PROTECTION AREAS WITHOUT WRITTEN CONSENT OF ARLINGTON COUNTY URBAN FORESTER.
 3. REMOVE TPF ONLY WITH APPROVAL FROM ARLINGTON COUNTY URBAN FORESTER AFTER ALL SITE WORK HAS BEEN COMPLETED.
 4. SIGN MATERIAL TO BE WEATHER RESISTANT.

1 6' CHAIN LINK TREE PROTECTION FENCE



- NOTES:
1. GRAPHICALLY, THE CRITICAL ROOT ZONE (CRZ) IS REPRESENTED AS A CIRCULAR REGION MEASURED OUTWARD FROM A TREE TRUNK REPRESENTING THE AREA OF ROOTS THAT MUST BE MAINTAINED OR PROTECTED FOR THE TREE'S SURVIVAL.
 2. THE CRZ OF A TREE IS THE ZONE IN WHICH THE MAJORITY OF THE ROOTS LAY. 95% OF THE ROOTS OF MOST TREES WILL BE FOUND IN THE UPPER 12-18" OF THE SOIL. MOST OF THE ROOTS THAT SUPPLY THE NUTRIENTS AND WATER TO THE TREE ARE FOUND JUST BELOW THE SOIL SURFACE. THE TOTAL AMOUNT OF A TREE'S ROOTS ARE GENERALLY PROPORTIONAL TO THE VOLUME OF THE TREE'S CANOPY. THEREFORE, IF THE ROOTS ONLY PENETRATE A THIN LAYER OF SOIL, THEN THE ROOTS MUST SPREAD FAR FROM THE TREE, BEYOND THE EXTENSION OF THE CANOPY.
 3. PLOT ACCURATE TRUNK LOCATIONS OF ALL TREES GREATER THAN 3" DIAMETER AT BREAST HEIGHT (DBH) AND/OR TREE STANDS WITHIN DEVELOPMENT AREAS ON ALL PLANS FOR THE PROJECT AND DELINEATE THEIR ESTIMATED CRITICAL ROOT ZONE.
 4. PLOT ACCURATE TRUNK LOCATIONS OF OFFSITE TREES WHICH WILL HAVE THEIR CRZ AFFECTED BY DEVELOPMENT AND DELINEATE THEIR ESTIMATED CRITICAL ROOT ZONE.

2 TREE PROTECTION DETAIL FOR DETERMINING CRITICAL ROOT ZONE



- NOTES:
1. ROOT PRUNING SHALL BE DONE WITH A TRENCHER OR VIBRATORY PLOW TO A DEPTH OF 12". ROOTS OVER 1.5" IN DIAMETER SHALL HAVE A CLEAN CUT MADE BY A CLEAN SAW ON THE SURFACE OF THE ROOT, WHICH IS STILL ATTACHED TO THE TREE. DO NOT BREAK OR CHOP. DO NOT PAINT THE CUT ROOT END. IF EXCAVATION IS FOR INSTALLATION OF UNDERGROUND UTILITIES, LEAVE THE ROOT INTACT AND THREAD THE LINES UNDERNEATH.
 2. ROOT PRUNING SHALL TAKE PLACE PRIOR TO ANY CLEARING AND GRADING. EXACT LOCATION OF TREE PROTECTION AREAS SHALL BE STAKED OR FLAGGED PRIOR TO TRENCHING AND SHALL BE APPROVED BY ARLINGTON COUNTY URBAN FORESTER.
 3. ROOT PRUNING SHALL BE CONDUCTED WITH THE SUPERVISION OF AN ISA CERTIFIED ARBORIST.
 4. BACKFILL THE ROOT-PRUNING TRENCH WITH APPROVED LOOSE TOPSOIL MIX AND TOP WITH 3-4" BARK MULCH AND MARK LOCATION FOR FUTURE REFERENCE. SILT FENCE MAY BE INSTALLED IN TRENCH PRIOR TO BACKFILLING AS LONG AS THE TRENCH IS NOT OPEN FOR LONGER THAN 48 HOURS WITHOUT WATERING.
 5. ROOT PRUNING WORK SHALL NOT BE DONE WHEN MORE THAN THE TOP 1 INCH OF SOIL IS FROZEN. ROOT PRUNING SHALL NOT BE UNDERTAKEN WHEN THE SOIL IS WET AND CONDITIONS ARE MUDDY.
 6. THE ARLINGTON COUNTY URBAN FORESTER SHALL BE NOTIFIED 72 HOURS PRIOR TO TRENCHING AND WHEN ALL ROOT PRUNING AND TREE PROTECTION FENCE INSTALLATION IS COMPLETE.

3 ROOT PRUNING

- NOTES:
1. CONTACT URBAN FORESTER FOR PRECONSTRUCTION MEETING, 72 HOURS PRIOR TO CONSTRUCTION STARTING.

ARLINGTON COUNTY, VIRGINIA DEPARTMENT OF ENVIRONMENTAL SERVICES	
TREE PROTECTION DETAILS ARLINGTON JUNCTION PARK-CIVIL ENGINEERING PLAN 1051 SOUTH EADS STREET ARLINGTON COUNTY, VA	
SCALE: AS SHOWN	SHEET TP103



DEPARTMENT OF PARKS AND RECREATION
Park Development Division
2100 Clarendon Boulevard, Suite 414
Arlington, VA 22201
Phone: 703.228.3332
Fax: 703.228.3328

ITB #23-DPR-ITBPW-450

#SWM 22-0224

Project Name and Location
ARLINGTON JUNCTION PARK

FINAL PLAN

1051 SOUTH EADS STREET
ARLINGTON, VIRGINIA

Sheet Title
TREE PROTECTION DETAILS

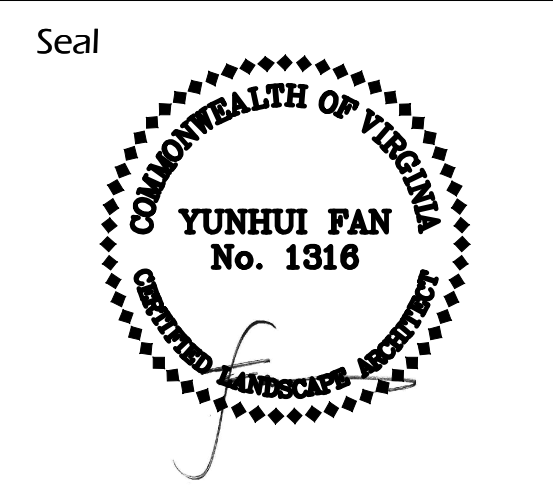
Approval _____ Date _____
Design Supervisor _____

Revisions	Date
CEP#1	7/15/2021
CEP#2	12/21/2023
BUILDING PERMIT	02/15/2023
REVISED BUILDING PERMIT	04/20/2023
CEP #4	7/20/2023

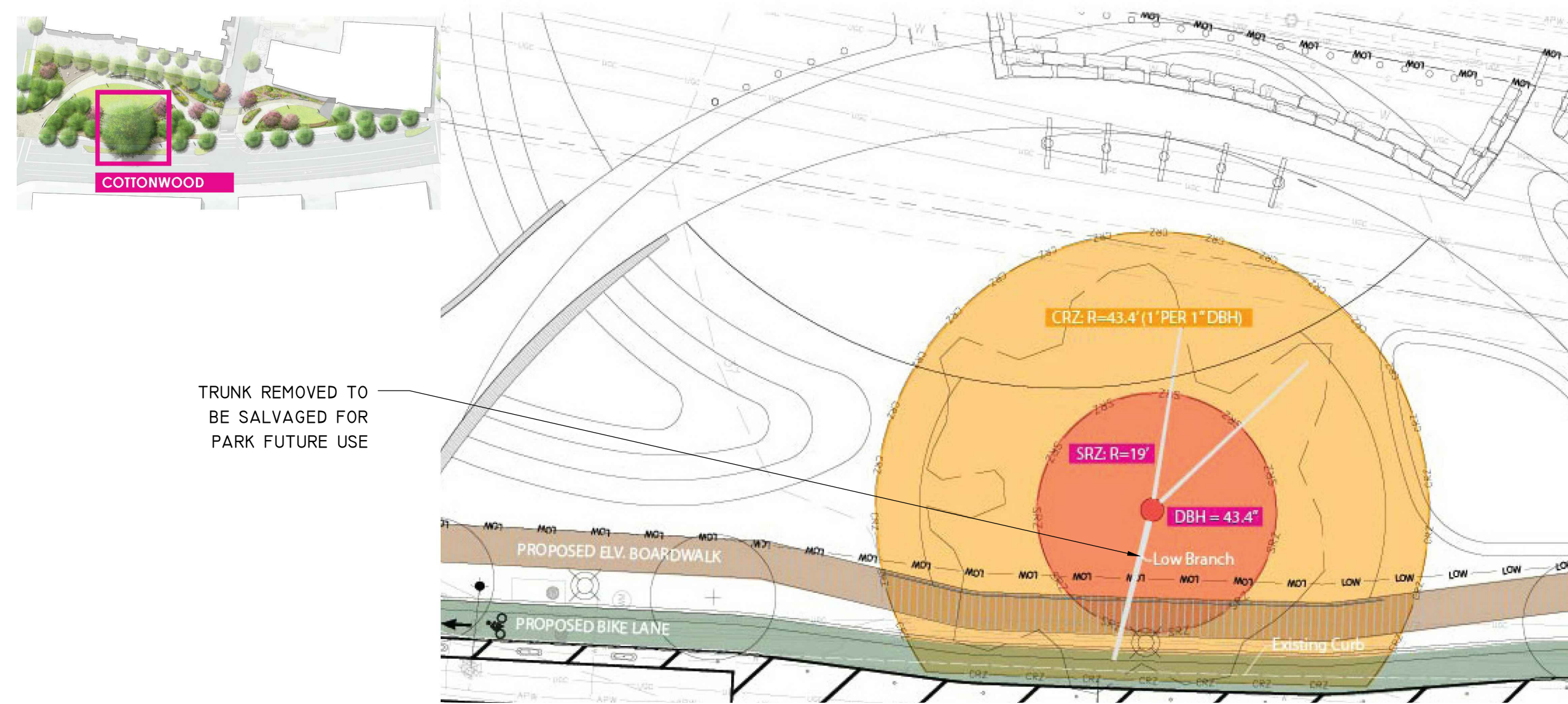
Designed: _____
Drawn: JC, SM
Checked: SM, CF

Filename: _____
Plotted: _____

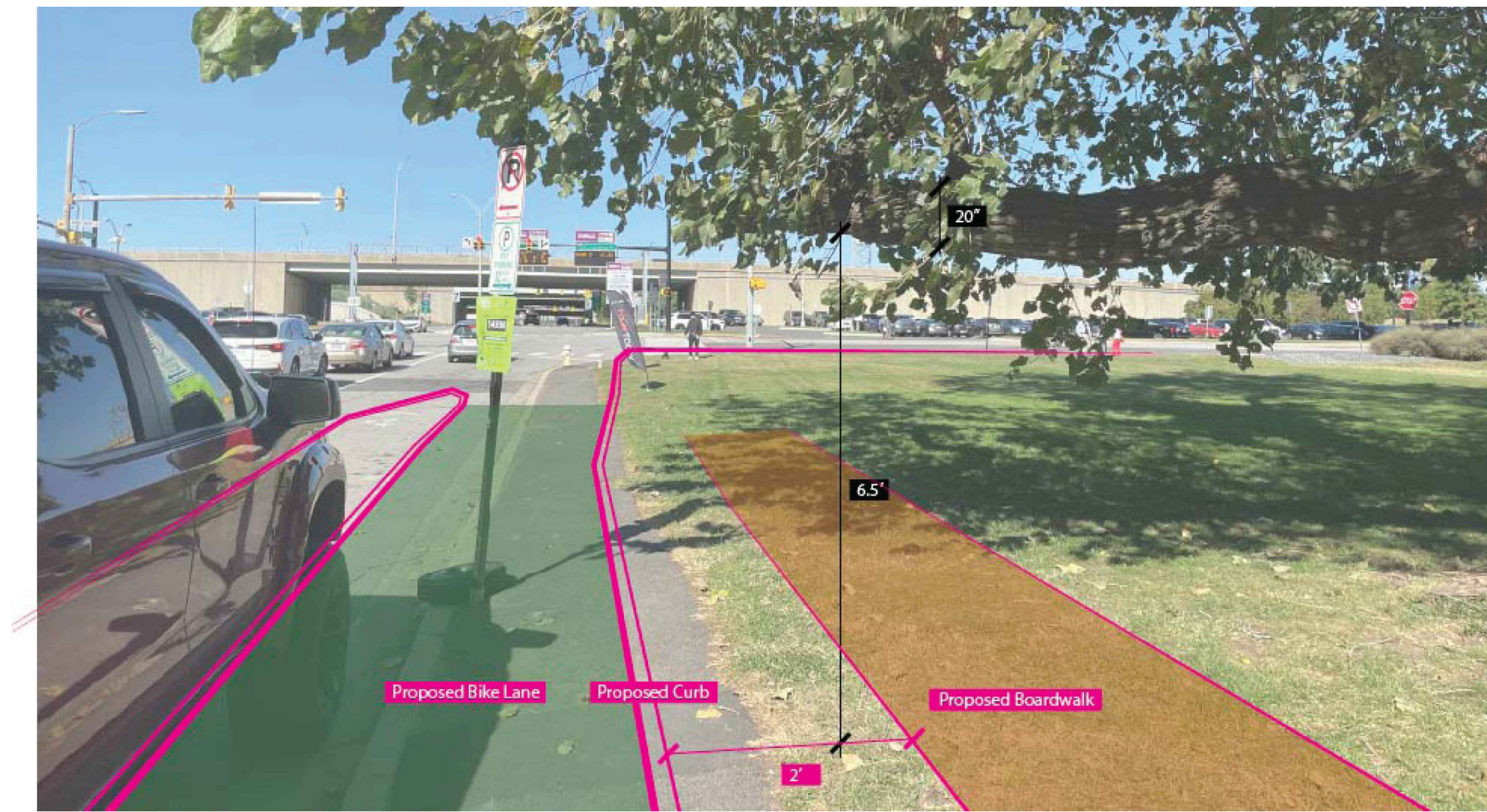
Scale: AS SHOWN
Date: 04/20/2023



Sheet **TP103**



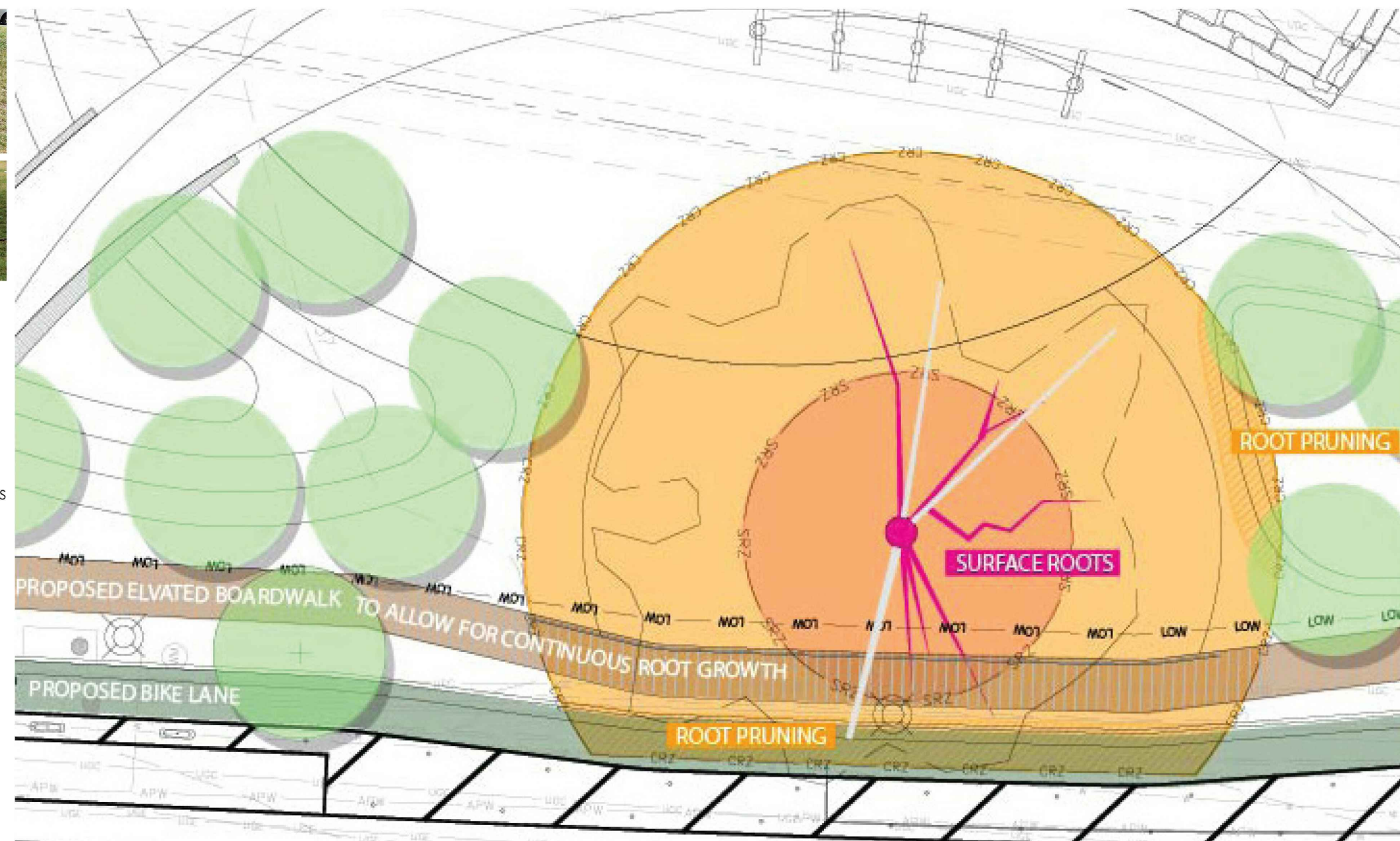
TREE BRANCH LOCATION



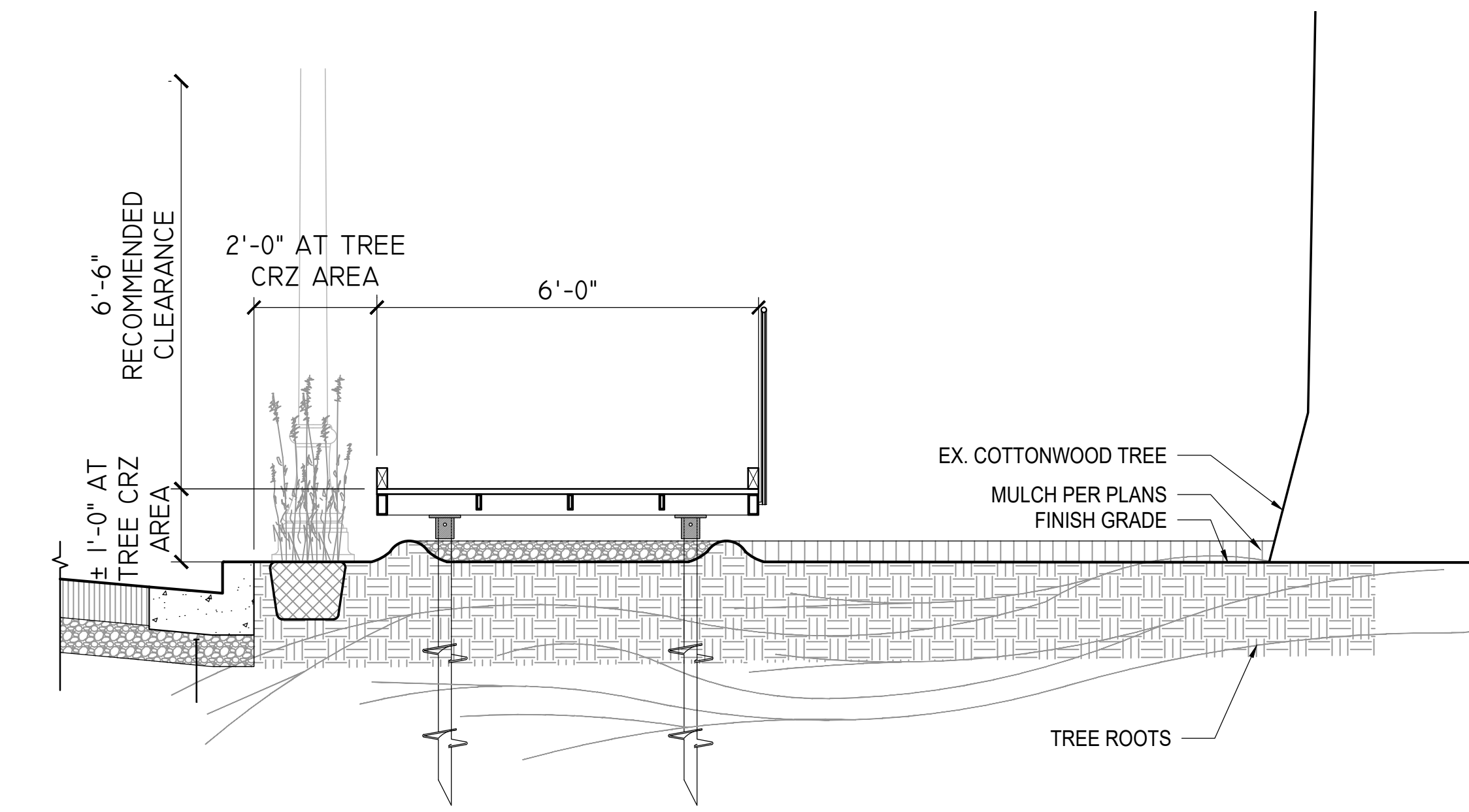
TREE BRANCH LOCATION WITH PROPOSED BOARDWALK



- EXISTING CONDITIONS**
- Existing estimated CRZ: 9,975 sq. ft.
 - Assumes 1.5" radius per 1" DBH per Arlington requirement.
 - CRZ is shown clipped 2 feet beyond existing road curb.
- PROPOSED PARK DESIGN**
- Proposed root pruning and other measures = 7,400 sq. ft. remaining
- 24% CRZ loss.
 - Assumes elevated boardwalk along Eads
 - Preserves structural root zone
 - Mitigation to be specified, including protection fencing (to be maintained except when work is done by or supervised by their arborist), temporary mulching, supplemental watering, growth regulator application (to be confirmed by urban forester during design phase), and 2 years post-construction monitoring and maintenance

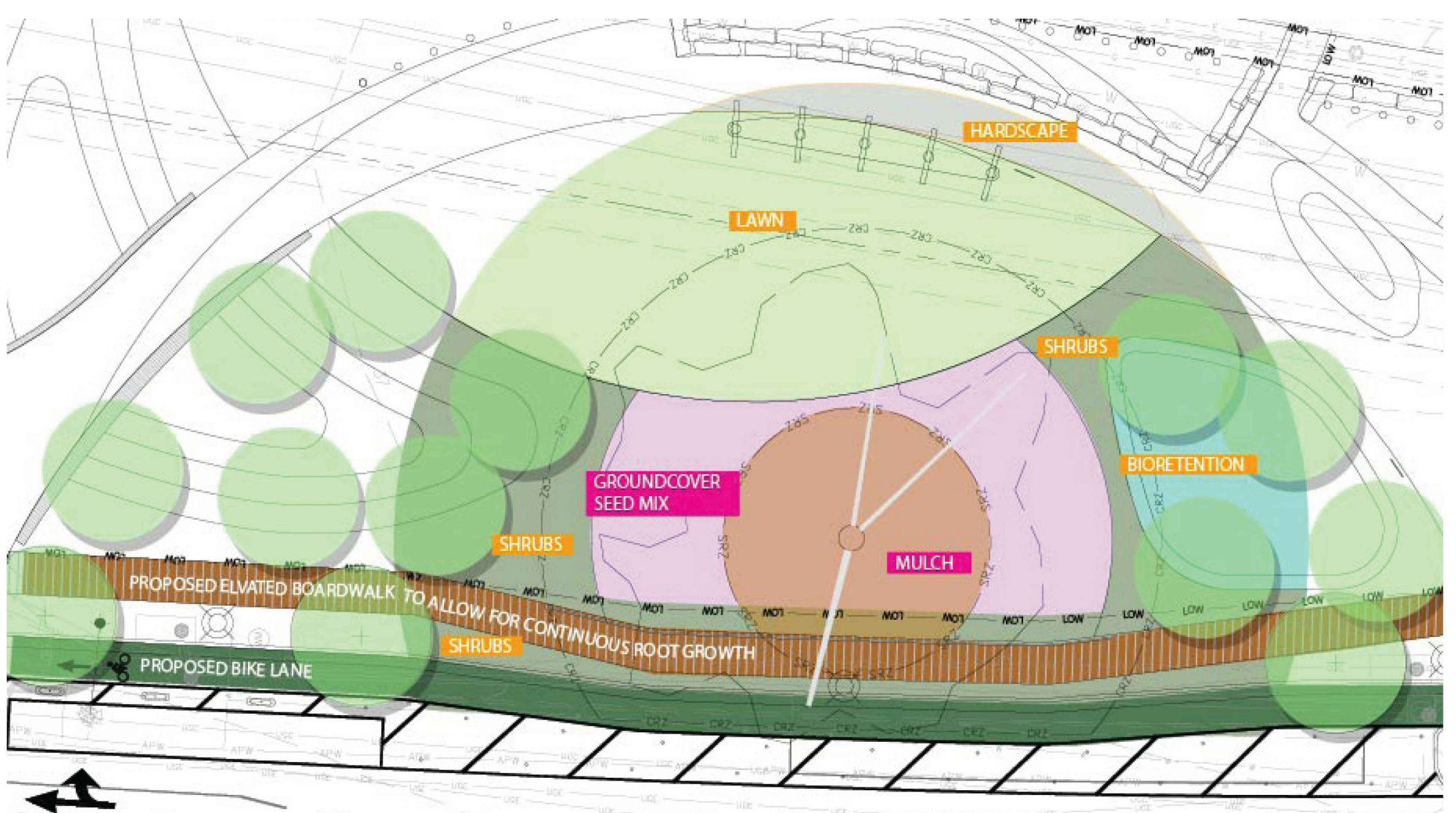


PROPOSED MITIGATION



PROPOSED SECTION

- NOTE:
- THIS SHEET IS FOR REFERENCE ONLY AND DOES NOT RELATE TO CONTRACTOR'S WORK.
 - BRANCH TO BE PRUNED BY COUNTY CONTRACTOR USING PROJECT FUNDS. PLACE WITHIN TPF UNTIL RELOCATION IS DIRECTED BY PROJECT LANDSCAPE ARCHITECT.
 - ALL PRUNING TO BE PERSONALLY DIRECTED BY COUNTY URBAN FORESTER.



PROPOSED PLANTING

ARLINGTON COUNTY, VIRGINIA
DEPARTMENT OF ENVIRONMENTAL SERVICES

COTTONWOOD TREE PROTECTION STUDIES
ARLINGTON JUNCTION PARK-CIVIL ENGINEERING PLAN
1051 SOUTH EADS STREET
ARLINGTON COUNTY, VA

SCALE: AS SHOWN SHEET TP104



DEPARTMENT OF PARKS AND RECREATION

Park Development Division
2100 Clarendon Boulevard, Suite 414
Arlington, VA 22201
Phone: 703.228.3332
Fax: 703.228.3328

ITB #23-DPR-ITBPW-450

#SWM 22-0224

Project Name and Location
ARLINGTON JUNCTION PARK

FINAL PLAN

1051 SOUTH EADS STREET
ARLINGTON, VIRGINIA

Sheet Title
COTTONWOOD TREE PROTECTION STUDIES

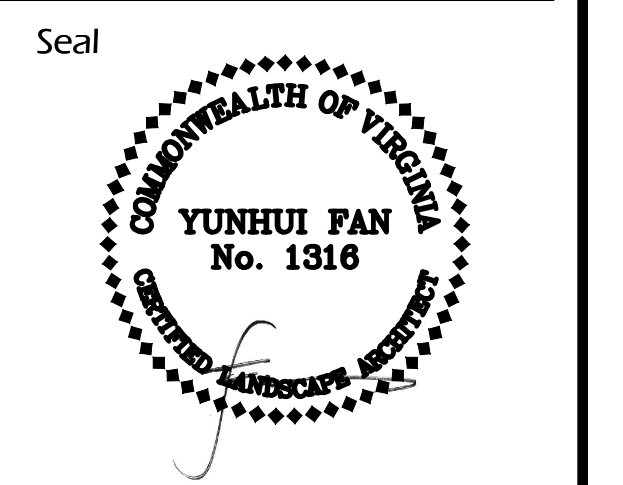
Approval _____ Date _____
Design Supervisor _____

Revisions	Date
CEP#1	7/15/2021
CEP#2	12/21/2023
BUILDING PERMIT	02/15/2023
REVISED BUILDING PERMIT	04/20/2023
CEP #4	7/20/2023

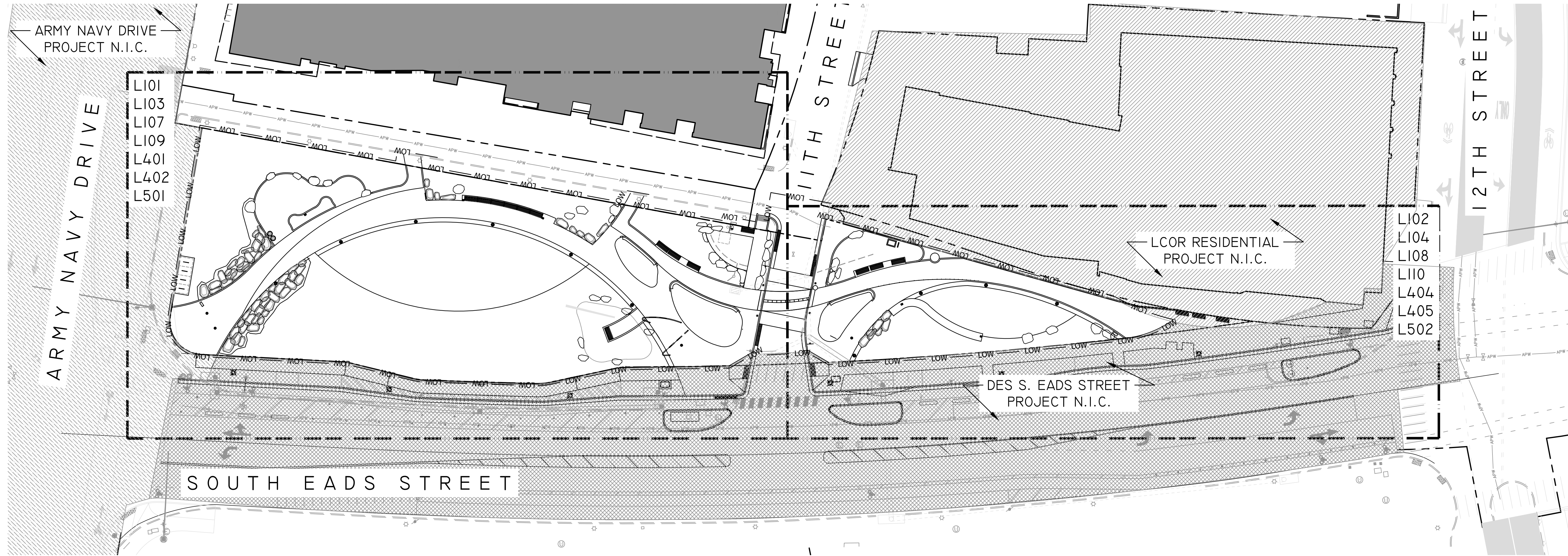
Designed: _____
Drawn: JC, SM
Checked: SM, CF

Filename: _____
Plotted: _____

Scale: AS SHOWN
Date: 04/20/2023



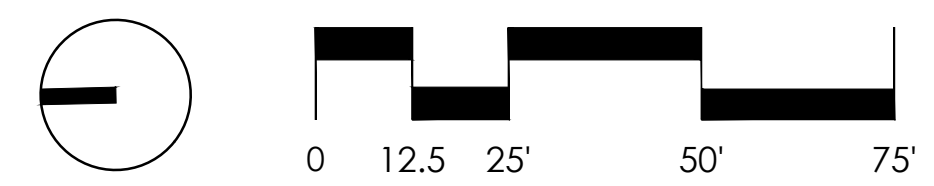
Sheet **TP104**



1 SHEET REFERENCE PLAN
1" = 25' - 0"



2 PROJECT CONTEXT PLAN
1" = 25' - 0"



ARLINGTON COUNTY, VIRGINIA
DEPARTMENT OF ENVIRONMENTAL SERVICES

OVERALL REFERENCE PLAN
ARLINGTON JUNCTION PARK-CIVIL ENGINEERING PLAN
1051 SOUTH EADS STREET
ARLINGTON COUNTY, VA

SCALE: AS SHOWN SHEET L100



DEPARTMENT OF PARKS AND RECREATION

Park Development Division
2100 Clarendon Boulevard, Suite 414
Arlington, VA 22201
Phone: 703.228.3332
Fax: 703.228.3328

ITB #23-DPR-ITBPW-450

#SWM 22-0224

Project Name and Location
ARLINGTON JUNCTION PARK

FINAL PLAN

1051 SOUTH EADS STREET
ARLINGTON, VIRGINIA

Sheet Title
OVERALL REFERENCE PLANS

Approval _____ Date _____
Design Supervisor _____

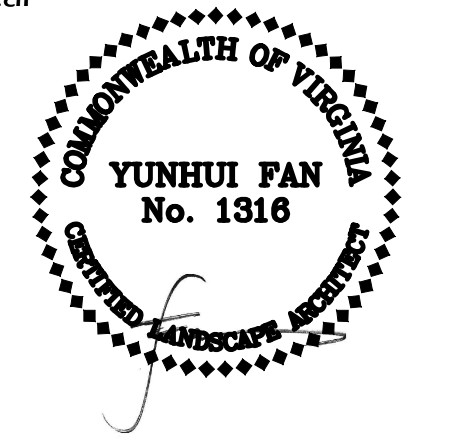
Revisions	Date
CEP#1	7/15/2021
CEP#2	12/21/2023
BUILDING PERMIT	02/15/2023
REVISED BUILDING PERMIT	04/20/2023
CEP #4	7/20/2023

Designed: _____
Drawn: JC, SM
Checked: SM, CF

Filename: _____
Plotted: _____

Scale: AS SHOWN
Date: 04/20/2023

Seal



Sheet **L100**



A



B



C

1 NORTH PARCEL VIEWS

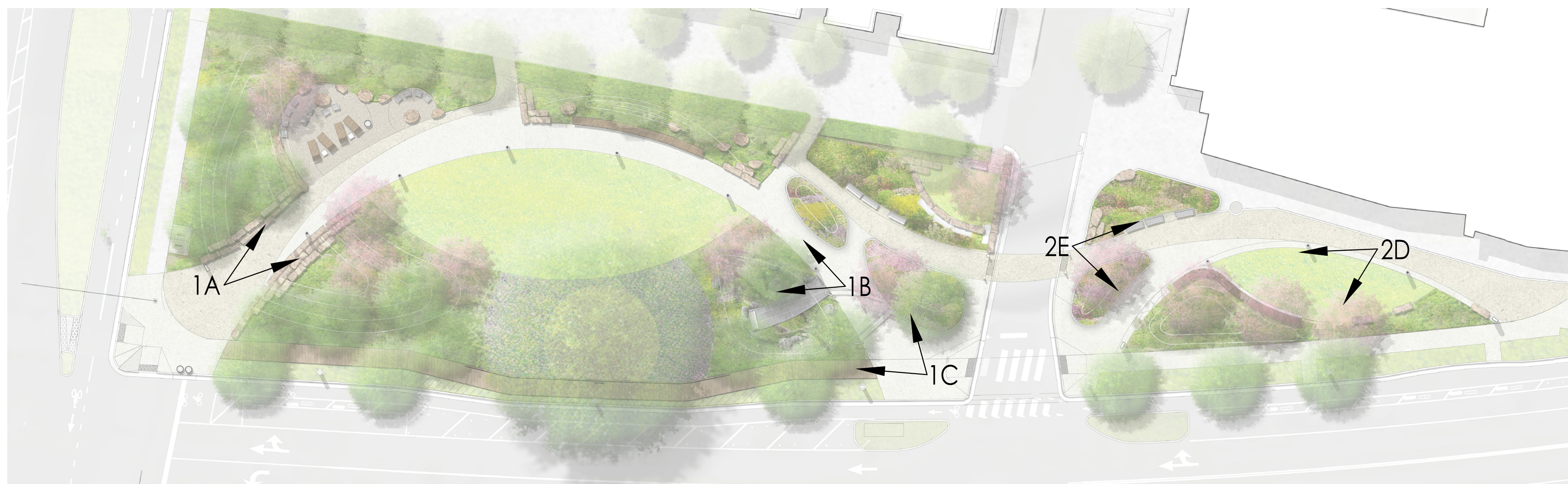


D



E

2 SOUTH PARCEL VIEWS



Approval	Date
Design Supervisor	

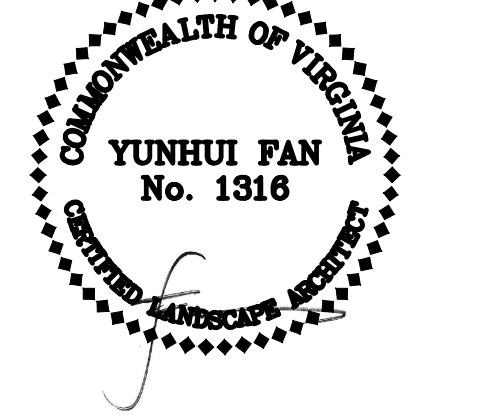
Revisions	Date
CEP#1	7/15/2021
CEP#2	12/21/2023
BUILDING PERMIT	02/15/2023
REVISED BUILDING PERMIT	04/20/2023
CEP #4	7/20/2023

Designed:
Drawn: JC, SM
Checked: SM, CF

Filename:
Plotted:

Scale: AS SHOWN
Date: 04/20/2023

Seal



ARLINGTON COUNTY, VIRGINIA DEPARTMENT OF ENVIRONMENTAL SERVICES		
PROJECT RENDERINGS ARLINGTON JUNCTION PARK-CIVIL ENGINEERING PLAN 1051 SOUTH EADS STREET ARLINGTON COUNTY, VA		
SCALE: AS SHOWN	SHEET L100A	

Approval	Date
Design Supervisor	

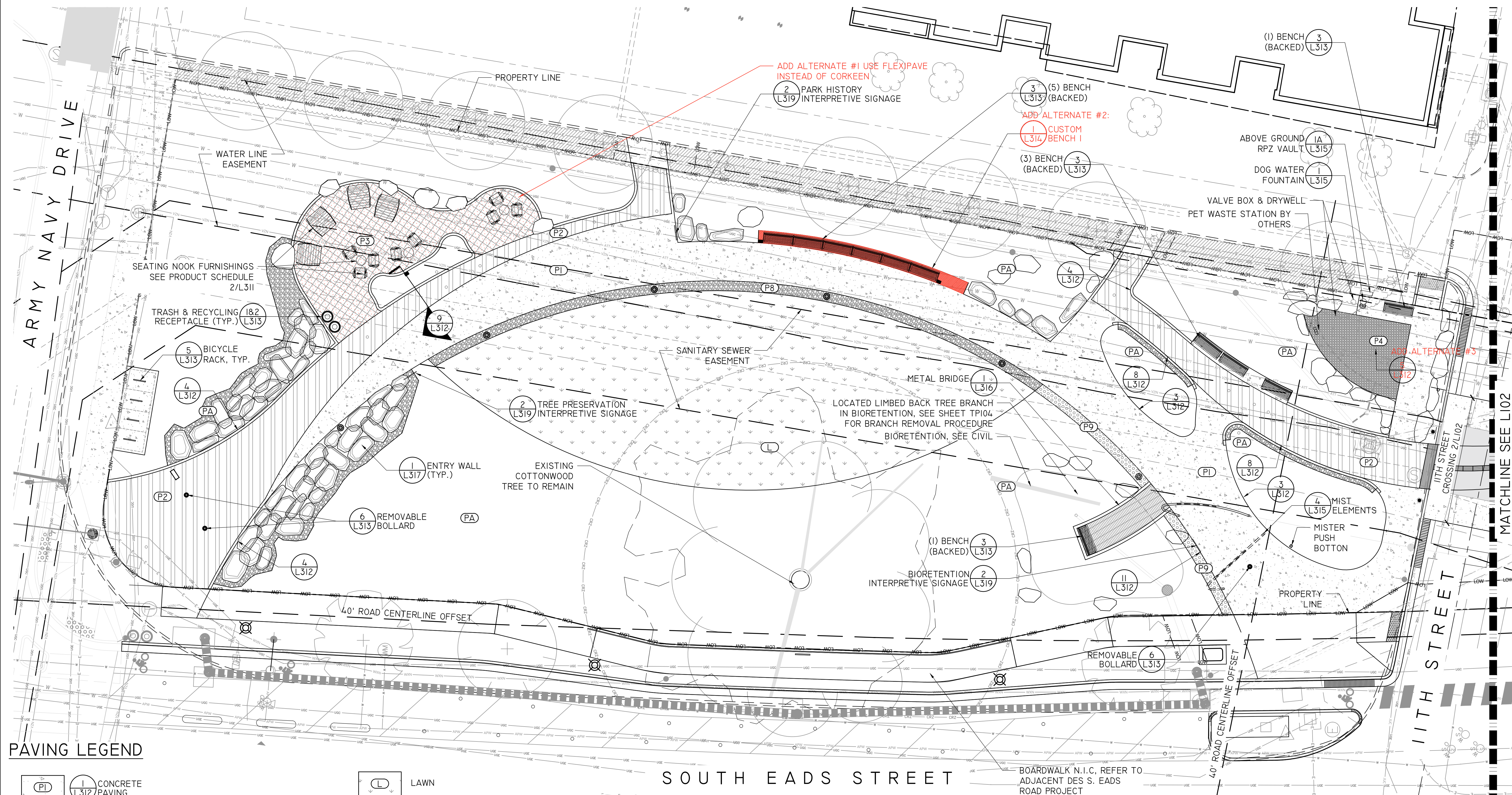
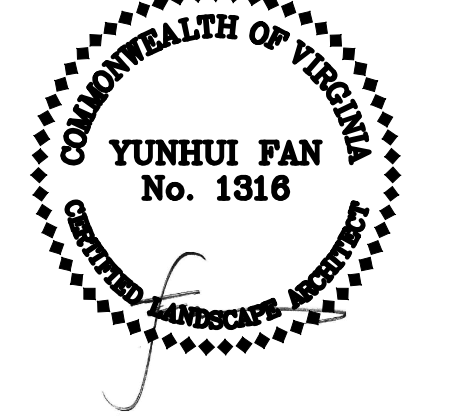
Revisions	Date
CEP#1	7/15/2021
CEP#2	12/21/2023
BUILDING PERMIT	02/15/2023
REVISED BUILDING PERMIT	04/20/2023
CEP #4	7/20/2023

Designed: JC, SM
Drawn: SM, CF
Checked: SM, CF

Filename:
Plotted:

Scale: AS SHOWN
Date: 04/20/2023

Seal



PAVING LEGEND

- 1** CONCRETE PAVING (L312)
- 4** POROUS UNIT PAVING (L312)
- 3** CORKEEN PAVING (L311)
- 3** UNSTABILIZED AGGREGATE PAVING (L311A)
- CONCRETE CROSSWALK. REFER TO CIVIL FOR PAVING CROSS SECTION AND STRIPING**
- 10** GRAVEL GARDEN (L312)
- 7** LONGITUDINAL DIRECTIONAL PAVERS (L312)
- 1** RIVER JACK COBBLE STRIP REFER TO DETAIL (L312)
- 11** GRAVEL FILTER STRIP (L312)

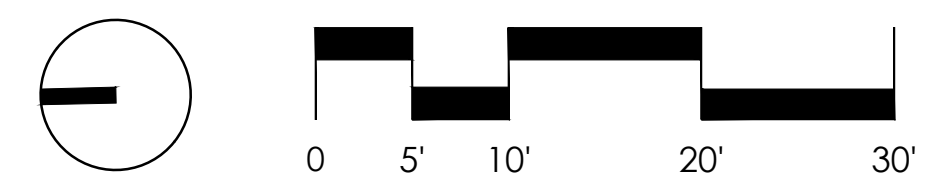
- LAWN**
- PLANTED AREA**
- 5** LANDSCAPE BOULDER TYPE 2 (L317)
- 3** BOULDER TYPE I SIM. (L317)
- 3** FLUSH CONCRETE TURN DOWN EDGE CONDITION (L312)
- 4** FLUSH CURB ADJACENT TO POROUS PAVING (L312)
- 8** RAISED CURB ADJACENT TO POROUS PAVING (L312)
- 9** PLANTER CURB (L312)

LIGHTING/ELECTRICAL LEGEND

- EXISTING POLE LIGHT**
- STREET LIGHTS, REFER TO STREETScape PLANS**
- PLYON AREA LIGHT-REFER TO STRUCTURAL FOR MOUNTING CONDITION**
- BOLLARD LIGHT-REFER TO STRUCTURAL FOR MOUNTING CONDITION**
- INTEGRAL STRUCTURE LEDES**
- PARK POLE LIGHT-REFER TO STRUCTURAL FOR MOUNTING CONDITION**
- POWER PEDESTAL**

ALTERNATES LEGEND

- ADD ALTERNATE #1: FLEXI-PAVE POROUS PAVING (L312)**
- ADD ALTERNATE #2: CUSTOM BENCHES POROUS PAVING (L314)**
- ADD ALTERNATE #3: SYNTHETIC TURF (L312)**



ARLINGTON COUNTY, VIRGINIA
DEPARTMENT OF ENVIRONMENTAL SERVICES

MATERIALS PLAN
ARLINGTON JUNCTION PARK-CIVIL ENGINEERING PLAN
1051 SOUTH EADS STREET
ARLINGTON COUNTY, VA

SCALE: AS SHOWN SHEET L101

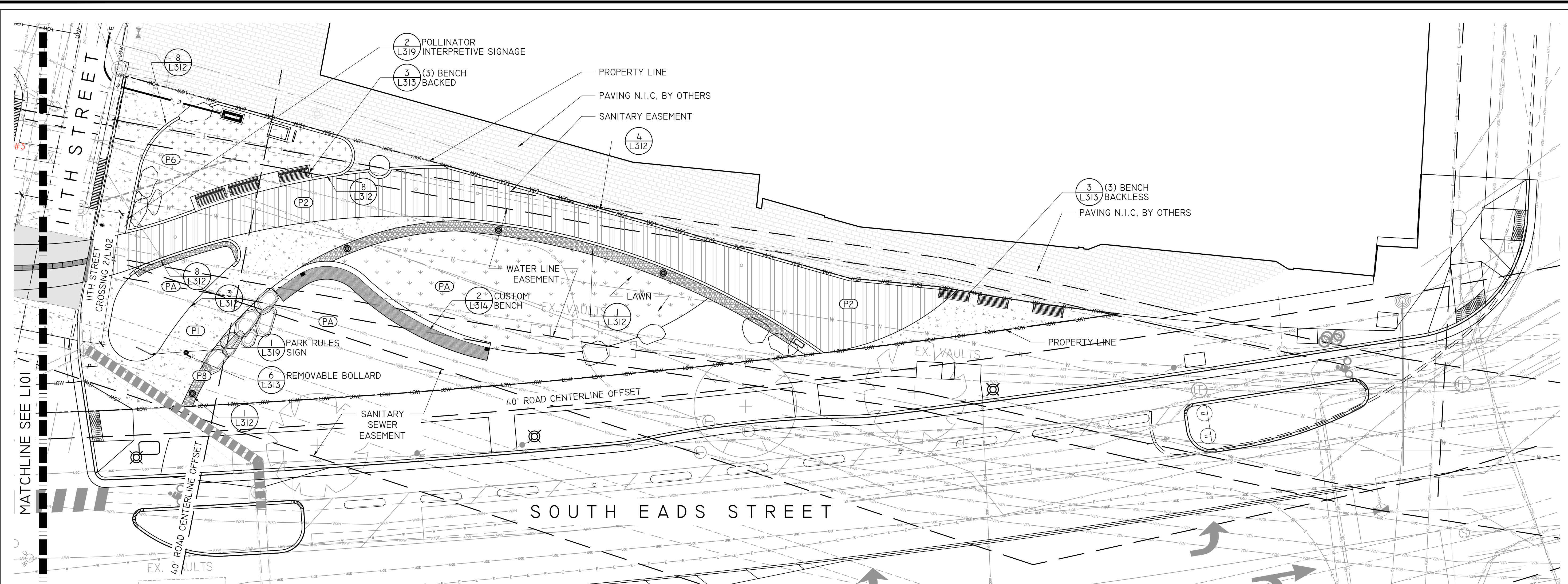
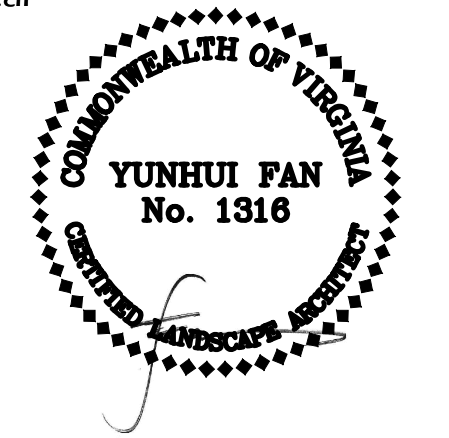
Approval	Date
Design Supervisor	
Revisions	Date
CEP#1	7/15/2021
CEP#2	12/21/2023
BUILDING PERMIT	02/15/2023
REVISED BUILDING PERMIT	04/20/2023
CEP #4	7/20/2023

Designed:
 Drawn: JC, SM
 Checked: SM, CF

Filename:
 Plotted:

Scale: AS SHOWN
 Date: 04/20/2023

Seal



1 MATERIALS PLAN

1"=10'-0"

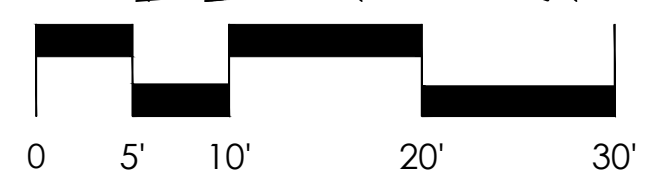
PAVING LEGEND

- 1** CONCRETE PAVING (L312)
- 4** POROUS UNIT PAVING (L312)
- 3** CORKEEN PAVING (L311)
- 3** UNSTABILIZED AGGREGATE PAVING (L311A)
- 5** CONCRETE CROSSWALK. REFER TO CIVIL FOR PAVING CROSS SECTION AND STRIPING
- 10** GRAVEL GARDEN (L312)
- 7** LONGITUDINAL DIRECTIONAL PAVERS (L312)
- 1** RIVER JACK COBBLE STRIP (L312) REFER TO DETAIL
- 11** GRAVEL FILTER STRIP (L312)
- L** LAWN
- PA** PLANTED AREA

- 5** LANDSCAPE BOULDER TYPE 2 (L317)
- 3** BOULDER TYPE 1 SIM. (L317)
- 3** FLUSH CONCRETE TURN DOWN EDGE CONDITION (L312)
- 4** FLUSH CURB ADJACENT TO POROUS PAVING (L312)
- 8** RAISED CURB ADJACENT TO POROUS PAVING (L312)
- 9** PLANTER CURB (L312)

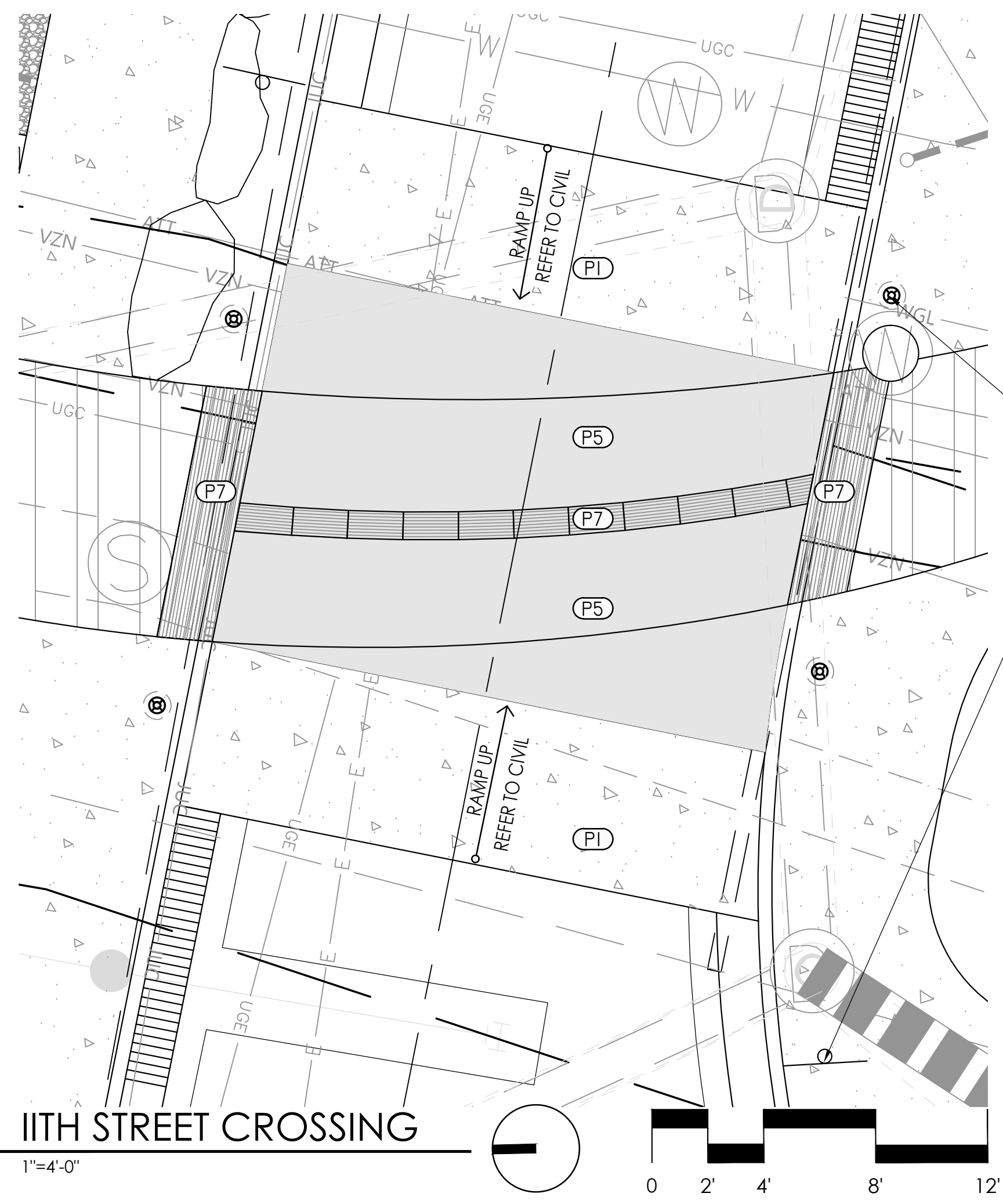
LIGHTING/ELECTRICAL LEGEND

- EXISTING POLE LIGHT
- STREET LIGHTS, REFER TO STREETScape PLANS
- PYLON AREA LIGHT-REFER TO STRUCTURAL FOR MOUNTING CONDITION
- BOLLARD LIGHT-REFER TO STRUCTURAL FOR MOUNTING CONDITION
- INTEGRAL STRUCTURE LEDS
- PARK POLE LIGHT-REFER TO STRUCTURAL FOR MOUNTING CONDITION
- POWER PEDESTAL



2 IITH STREET CROSSING

1"=4'-0"



EXACT LOCATION OF BOLLARD LIGHT TO BE DETERMINED IN FIELD IN ORDER TO AVOID CONFLICT WITH UNDERGROUND UTILITIES.
 REFER TO CIVIL FOR ALL STREET AND ROAD SIGNAGE. EXACT LOCATION OF SIGN TO BE DETERMINED IN FIELD.

ARLINGTON COUNTY, VIRGINIA DEPARTMENT OF ENVIRONMENTAL SERVICES	
MATERIALS PLAN ARLINGTON JUNCTION PARK-CIVIL ENGINEERING PLAN 1051 SOUTH EADS STREET ARLINGTON COUNTY, VA	
SCALE: AS SHOWN	SHEET L102

Approval	Date
Design Supervisor	

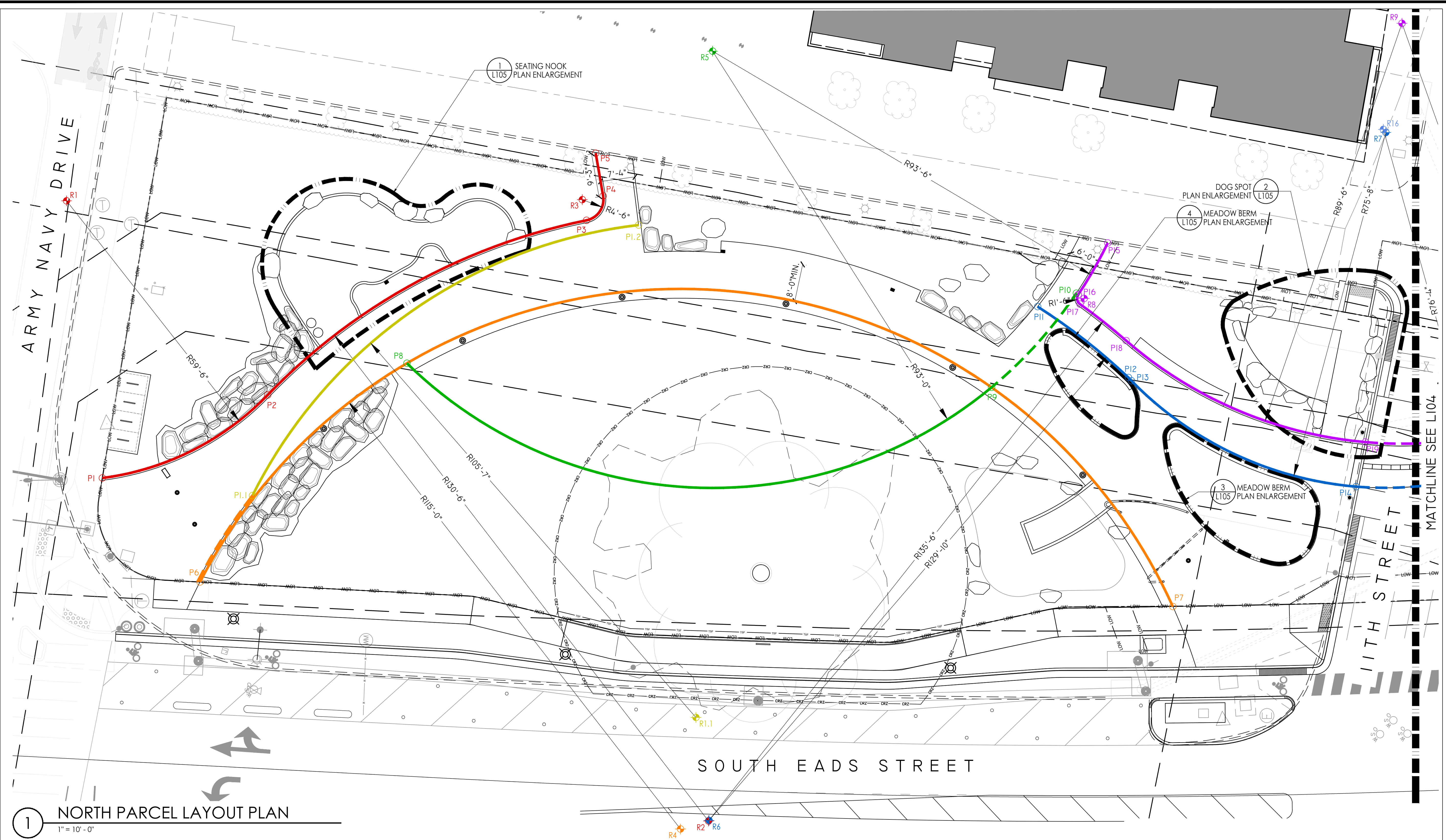
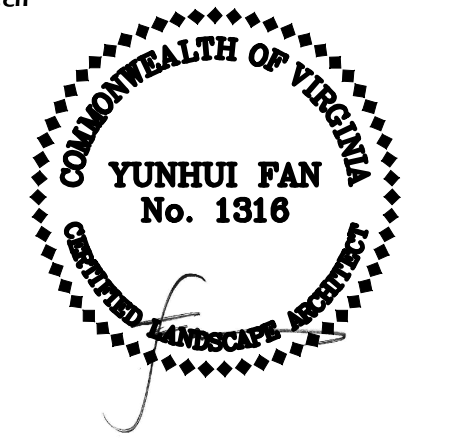
Revisions	Date
CEP#1	7/15/2021
CEP#2	12/21/2023
BUILDING PERMIT	02/15/2023
REVISED BUILDING PERMIT	04/20/2023
CEP #4	7/20/2023

Designed:
 Drawn: JC, SM
 Checked: SM, CF

Filename:
 Plotted:

Scale: AS SHOWN
 Date: 04/20/2023

Seal



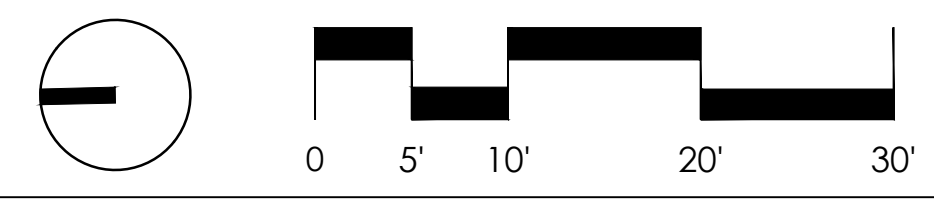
1 NORTH PARCEL LAYOUT PLAN
 1" = 10' - 0"

ARC 1				ARC 1.1				ARC 3				ARC 4				ARC 5			
RADIUS POINT	NORTHINGS	EASTINGS	DESC.	RADIUS POINT	NORTHINGS	EASTINGS	DESC.	RADIUS POINT	NORTHINGS	EASTINGS	DESC.	RADIUS POINT	NORTHINGS	EASTINGS	DESC.	RADIUS POINT	NORTHINGS	EASTINGS	DESC.
P1	7001191.33	11894593.11	ARC BEGINNING	P1.1	7001159.37	11894589.39	ARC BEGINNING	P8	7001126.50	11894617.55	ARC BEGINNING	P11	7000992.26	11894629.61	ARC BEGINNING	P15	7000977.34	11894643.15	ARC BEGINNING
R1	7001198.94	11894652.12	RADIUS CTR.	R1.1	7001064.99	11894542.14	RADIUS CTR.	R5	7001061.44	11894684.00	RADIUS CTR.	R6	7001062.20	11894520.22	RADIUS CTR.	R5	7001061.44	11894684.00	RADIUS CTR.
P2	7001156.15	11894610.77	POINT OF TANGENCY	P1.2	7001077.20	11894646.98	ARC ENDING	P9	7001002.07	11894612.41	ARC ENDING	P12	7000972.95	11894614.52	POINT OF TANGENCY	P16	7000983.61	11894632.18	POINT OF TANGENCY
R2	7001062.30	11894520.09	RADIUS CTR.					P10	7000984.03	11894632.45	ARC EXTENDING	P13	7000972.31	11894613.83	POINT OF TANGENCY	R8	7000982.37	11894631.35	RADIUS CTR.
P3	7001088.28	11894647.98	POINT OF TANGENCY	ARC 2								R7	7000918.15	11894666.69	RADIUS CTR.	P17	7000983.24	11894630.13	POINT OF TANGENCY
R3	7001089.17	11894652.39	RADIUS CTR.					R4	7001068.28	11894518.38	RADIUS CTR.					R2	7001062.30	11894520.09	RADIUS CTR.
P4	7001084.74	11894653.16	POINT OF TANGENCY	P6	7001170.55	11894570.98	ARC BEGINNING					P18	7000973.42	11894622.36	POINT OF TANGENCY	P18	7000973.42	11894622.36	POINT OF TANGENCY
P5	7001086.32	11894662.26	ARC ENDING	R4	7001068.28	11894518.38	RADIUS CTR.					R9	7000914.71	11894689.92	RADIUS CTR.	R9	7000914.71	11894689.92	RADIUS CTR.
				P7	7000963.49	11894565.75	ARC ENDING					P19	7000922.52	11894600.76	ARC ENDING	P19	7000922.52	11894600.76	ARC ENDING

2 RADIUS CENTER POINTS

ARC LEGEND
 ARC 1 (Red)
 ARC 1.1 (Yellow)
 ARC 2 (Orange)
 ARC 3 (Green)
 ARC 4 (Blue)
 ARC 5 (Purple)

NOTE:
 1. GPS COORDINATES ARE IN INTERNATIONAL FEET.
 2. "E" POINTS REFERENCE ENLARGEMENTS, SEE SHEETS L105 AND L106



ARLINGTON COUNTY, VIRGINIA
 DEPARTMENT OF ENVIRONMENTAL SERVICES

LAYOUT PLAN
 ARLINGTON JUNCTION PARK-CIVIL ENGINEERING PLAN
 1051 SOUTH EADS STREET
 ARLINGTON COUNTY, VA

SCALE: AS SHOWN SHEET L103

Approval	Date
Design Supervisor	

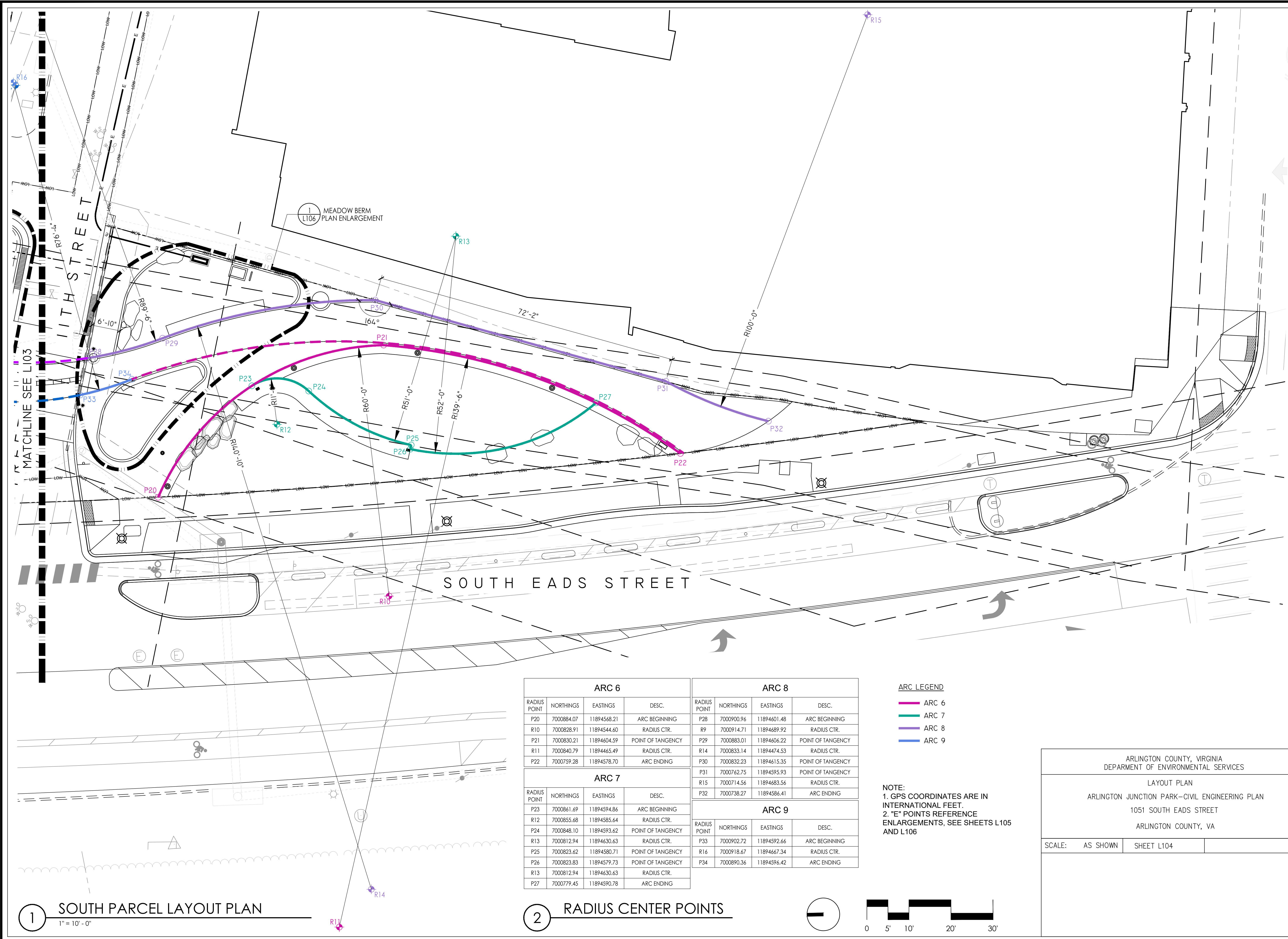
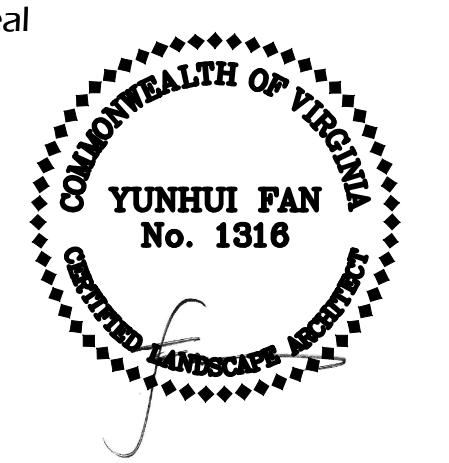
Revisions	Date
CEP#1	7/15/2021
CEP#2	12/21/2023
BUILDING PERMIT	02/15/2023
REVISED BUILDING PERMIT	04/20/2023
CEP #4	7/20/2023

Designed:
 Drawn: JC, SM
 Checked: SM, CF

Filename:
 Plotted:

Scale: AS SHOWN
 Date: 04/20/2023

Seal



ARC 6				ARC 8			
RADIUS POINT	NORTHINGS	EASTINGS	DESC.	RADIUS POINT	NORTHINGS	EASTINGS	DESC.
P20	7000884.07	11894568.21	ARC BEGINNING	P28	7000900.96	11894601.48	ARC BEGINNING
R10	7000828.91	11894544.60	RADIUS CTR.	R9	7000914.71	11894689.92	RADIUS CTR.
P21	7000830.21	11894604.59	POINT OF TANGENCY	P29	7000883.01	11894606.22	POINT OF TANGENCY
R11	7000840.79	11894465.49	RADIUS CTR.	R14	7000833.14	11894474.53	RADIUS CTR.
P22	7000759.28	11894578.70	ARC ENDING	P30	7000832.23	11894615.35	POINT OF TANGENCY
ARC 7				P31	7000762.75	11894595.93	POINT OF TANGENCY
RADIUS POINT	NORTHINGS	EASTINGS	DESC.	RADIUS POINT	NORTHINGS	EASTINGS	DESC.
P23	7000861.69	11894594.86	ARC BEGINNING	R15	7000714.56	11894683.56	RADIUS CTR.
R12	7000855.68	11894585.64	RADIUS CTR.	P32	7000738.27	11894586.41	ARC ENDING
P24	7000848.10	11894593.62	POINT OF TANGENCY	ARC 9			
R13	7000812.94	11894630.63	RADIUS CTR.	RADIUS POINT	NORTHINGS	EASTINGS	DESC.
P25	7000823.62	11894580.71	POINT OF TANGENCY	P33	7000902.72	11894592.66	ARC BEGINNING
P26	7000823.83	11894579.73	POINT OF TANGENCY	R16	7000918.67	11894667.34	RADIUS CTR.
R13	7000812.94	11894630.63	RADIUS CTR.	P34	7000890.36	11894596.42	ARC ENDING
P27	7000779.45	11894590.78	ARC ENDING				

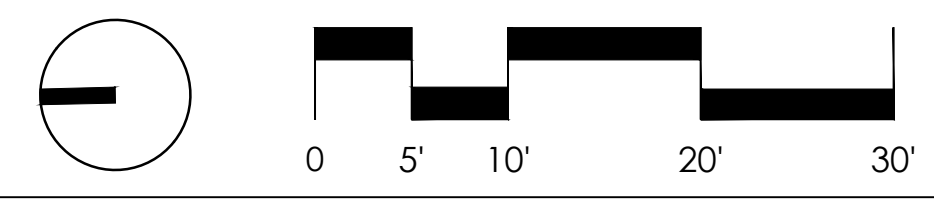
ARC LEGEND

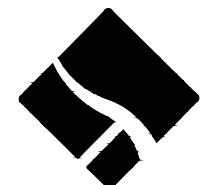
- ARC 6
- ARC 7
- ARC 8
- ARC 9

NOTE:
 1. GPS COORDINATES ARE IN INTERNATIONAL FEET.
 2. "E" POINTS REFERENCE ENLARGEMENTS, SEE SHEETS L105 AND L106

1 SOUTH PARCEL LAYOUT PLAN
 1" = 10' - 0"

2 RADIUS CENTER POINTS





ARLINGTON VIRGINIA

DEPARTMENT OF PARKS AND RECREATION

Park Development Division
2100 Clarendon Boulevard, Suite 414
Arlington, VA 22201
Phone: 703.228.3332
Fax: 703.228.3328

ITB #23-DPR-ITBPW-450

#SWM 22-0224

Project Name and Location

ARLINGTON JUNCTION PARK

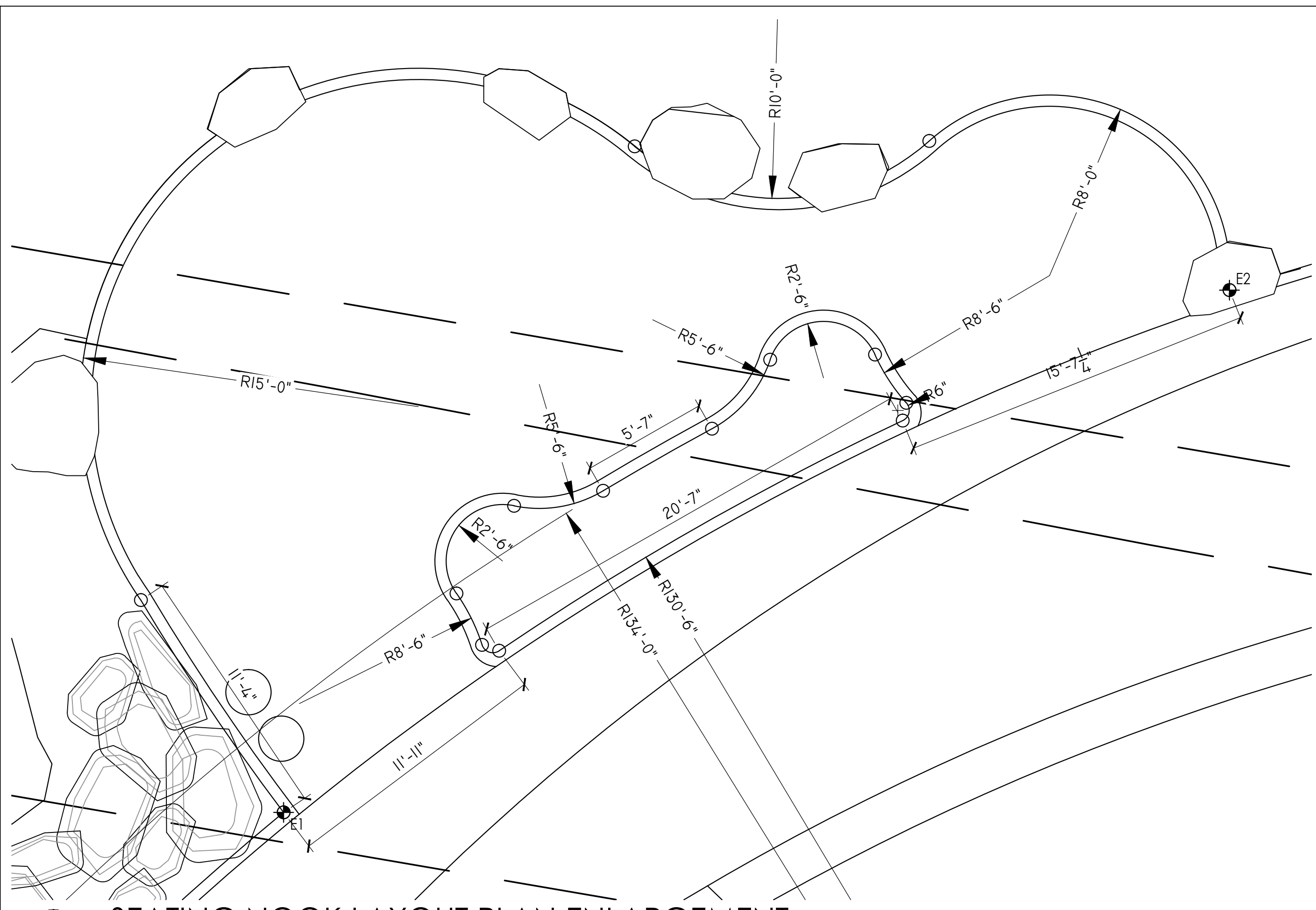
FINAL PLAN

1051 SOUTH EADS STREET

ARLINGTON, VIRGINIA

Sheet Title

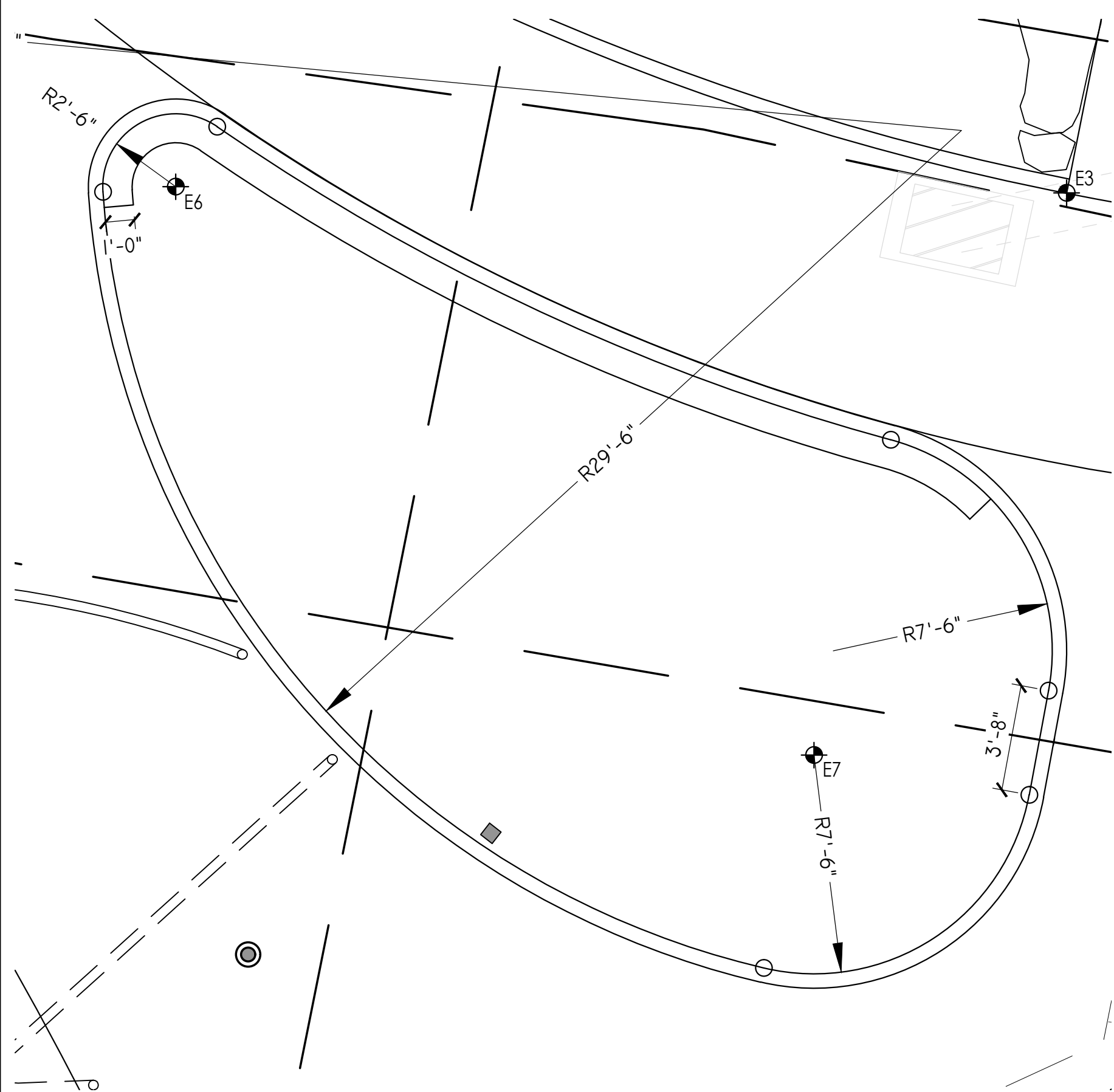
LAYOUT PLAN ENLARGEMENTS



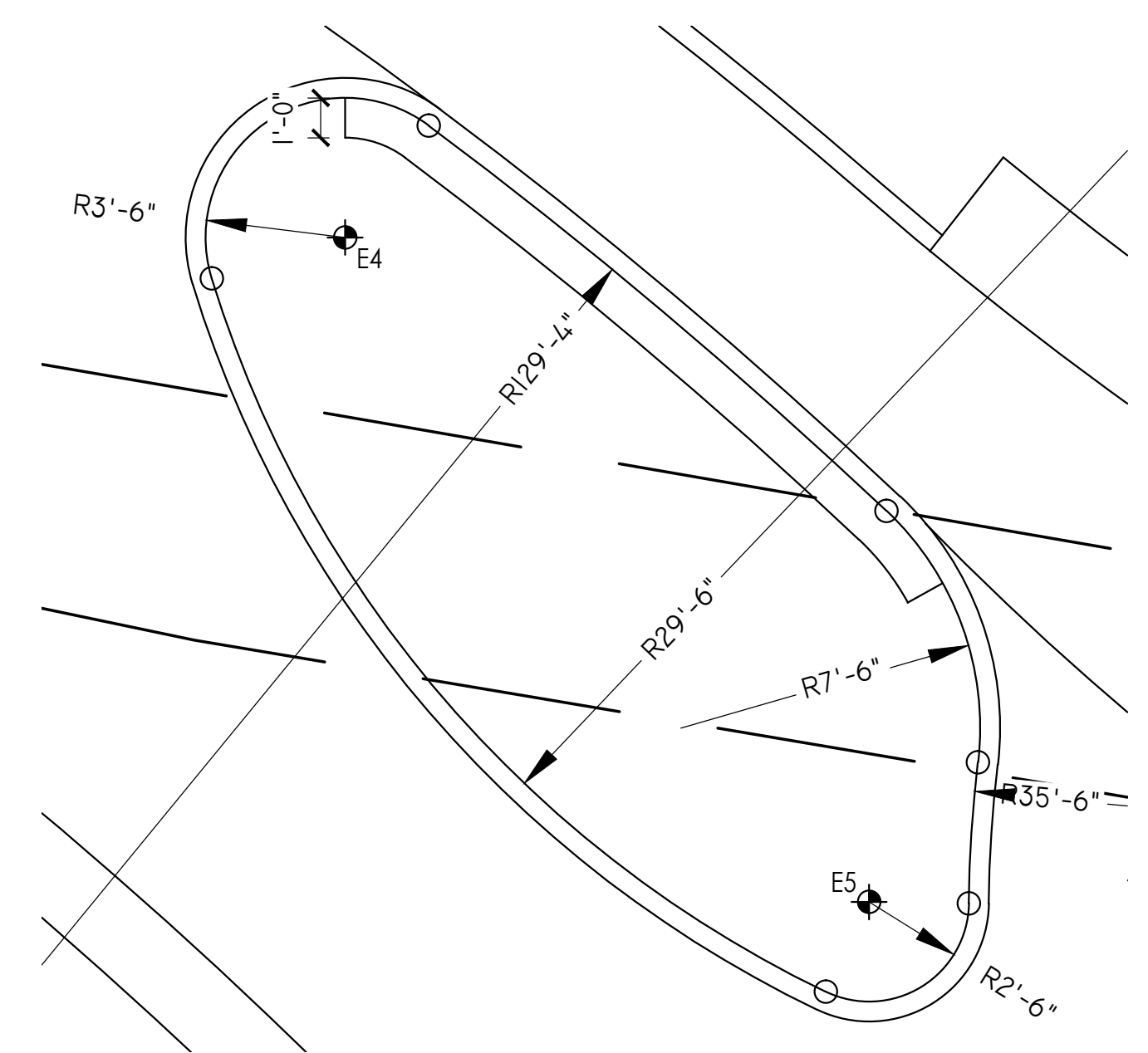
1 SEATING NOOK LAYOUT PLAN ENLARGEMENT
1" = 4' - 0"



2 DOG SPOT LAYOUT PLAN ENLARGEMENT
1" = 4' - 0"



3 MEADOW BERM LAYOUT PLAN ENLARGEMENT
1" = 4' - 0"



4 MEADOW BERM LAYOUT PLAN ENLARGEMENT
1" = 4' - 0"

ENLARGEMENT KEY POINTS

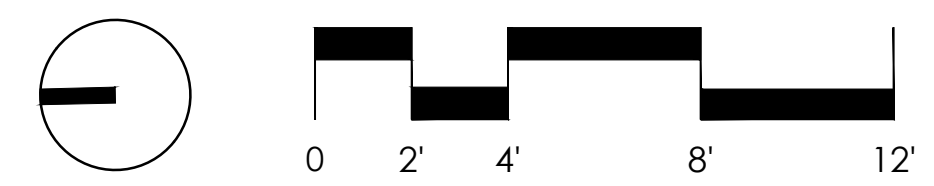
RADIUS POINT	NORTHINGS	EASTINGS
E1	7001145.29	11894620.80
E2	7001103.37	11894643.96
E3	7000932.12	11894601.63
E4	7000986.87	11894621.01
E5	7000973.73	11894604.34
E6	7000962.67	11894601.85
E7	7000940.79	11894582.36
E8	7000894.28	11894602.78
E9	7000851.73	11894614.12
E10	7000875.44	11894598.04
E11	7000892.70	11894582.67

5 RADIUS CENTER POINTS

ARLINGTON COUNTY, VIRGINIA
DEPARTMENT OF ENVIRONMENTAL SERVICES

LAYOUT PLAN ENLARGEMENT
ARLINGTON JUNCTION PARK-CIVIL ENGINEERING PLAN
1051 SOUTH EADS STREET
ARLINGTON COUNTY, VA

SCALE: AS SHOWN SHEET L105



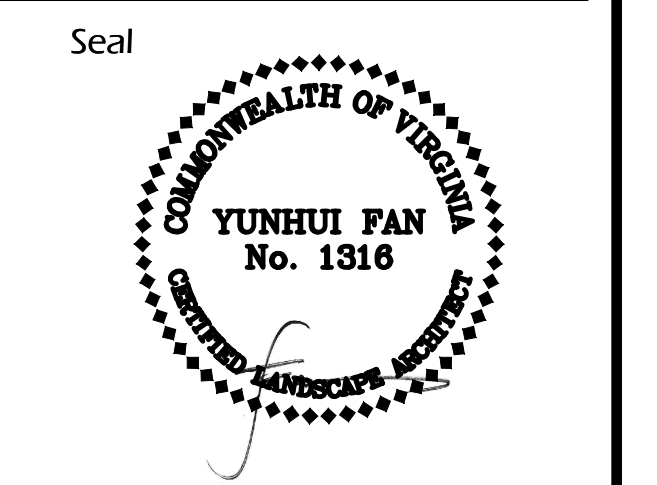
Approval _____ Date _____
Design Supervisor _____

Revisions	Date
CEP#1	7/15/2021
CEP#2	12/21/2023
BUILDING PERMIT	02/15/2023
REVISED BUILDING PERMIT	04/20/2023
CEP #4	7/20/2023

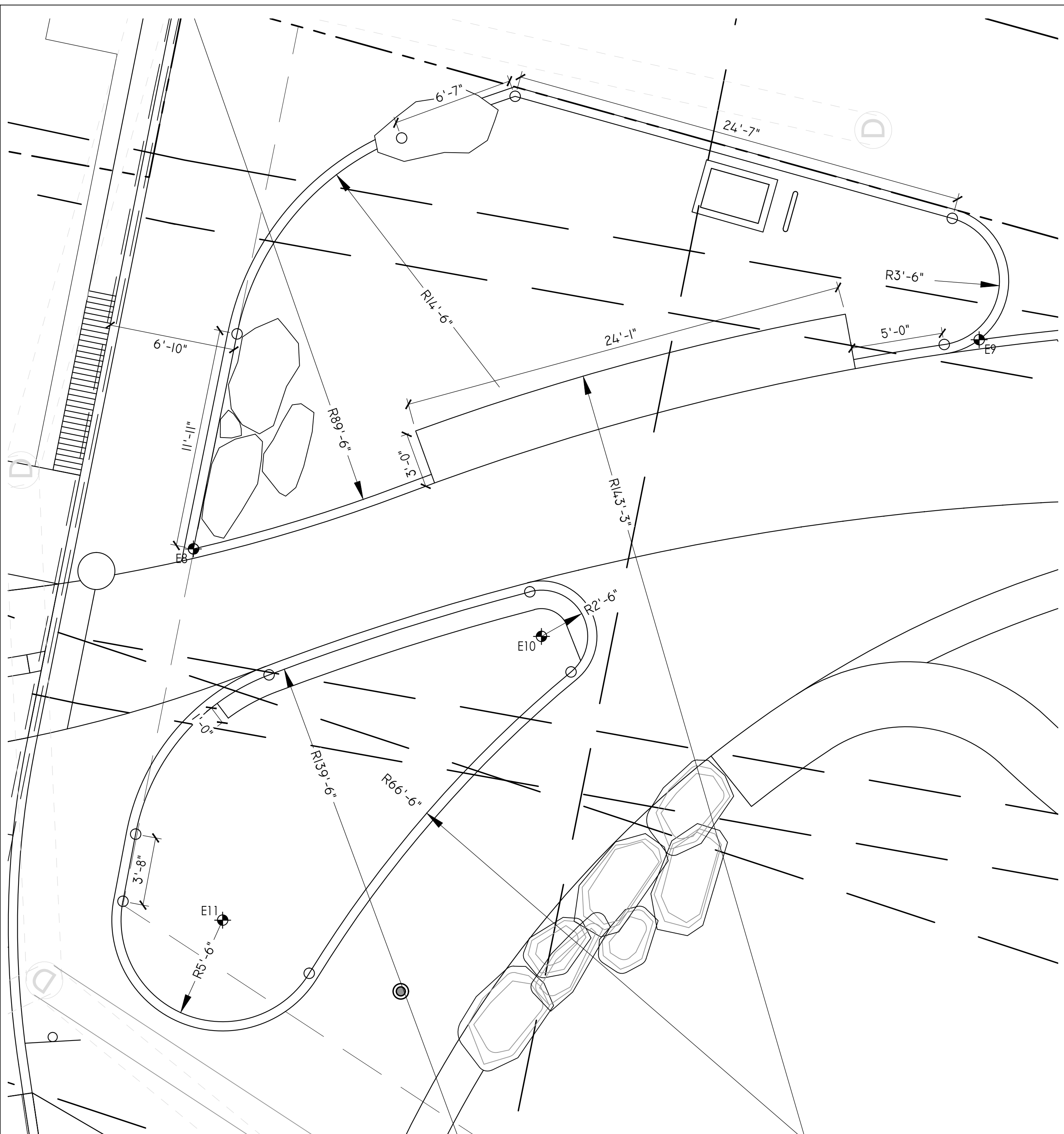
Designed: _____
Drawn: JC, SM
Checked: SM, CF

Filename: _____
Plotted: _____

Scale: AS SHOWN
Date: 04/20/2023



Sheet **L105**

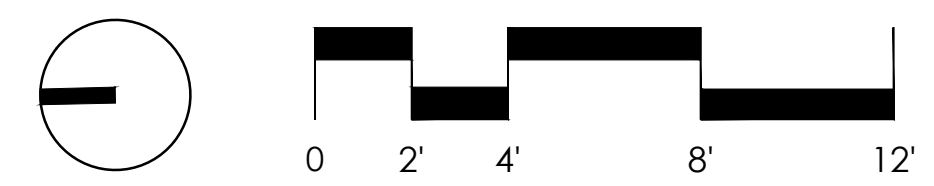


1 MEADOW BERM LAYOUT PLAN ENLARGEMENT
1" = 4' - 0"

ENLARGEMENT KEY POINTS

RADIUS POINT	NORTHINGS	EASTINGS
E1	7001145.29	11894620.80
E2	7001103.37	11894643.96
E3	7000930.39	11894601.80
E4	7000986.87	11894621.01
E5	7000973.73	11894604.34
E6	7000962.67	11894601.85
E7	7000940.79	11894582.36
E8	7000894.28	11894602.78
E9	7000851.73	11894614.12
E10	7000875.44	11894598.04
E11	7000892.70	11894582.67

2 RADIUS CENTER POINTS



ARLINGTON COUNTY, VIRGINIA
DEPARTMENT OF ENVIRONMENTAL SERVICES

LAYOUT PLAN ENLARGEMENT
ARLINGTON JUNCTION PARK—CIVIL ENGINEERING PLAN
1051 SOUTH EADS STREET
ARLINGTON COUNTY, VA

SCALE: AS SHOWN	SHEET L106
-----------------	------------



DEPARTMENT OF PARKS AND RECREATION
Park Development Division
2100 Clarendon Boulevard, Suite 414
Arlington, VA 22201
Phone: 703.228.3332
Fax: 703.228.3328

ITB #23-DPR-ITBPW-450

#SWM 22-0224

Project Name and Location
ARLINGTON JUNCTION PARK

FINAL PLAN

1051 SOUTH EADS STREET
ARLINGTON, VIRGINIA

Sheet Title
LAYOUT PLAN ENLARGEMENTS

Approval _____ Date _____
Design Supervisor _____

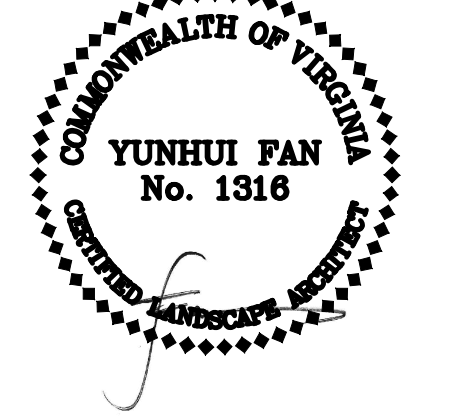
Revisions	Date
CEP#1	7/15/2021
CEP#2	12/21/2023
BUILDING PERMIT	02/15/2023
REVISED BUILDING PERMIT	04/20/2023
CEP #4	7/20/2023

Designed:
Drawn: JC, SM
Checked: SM, CF

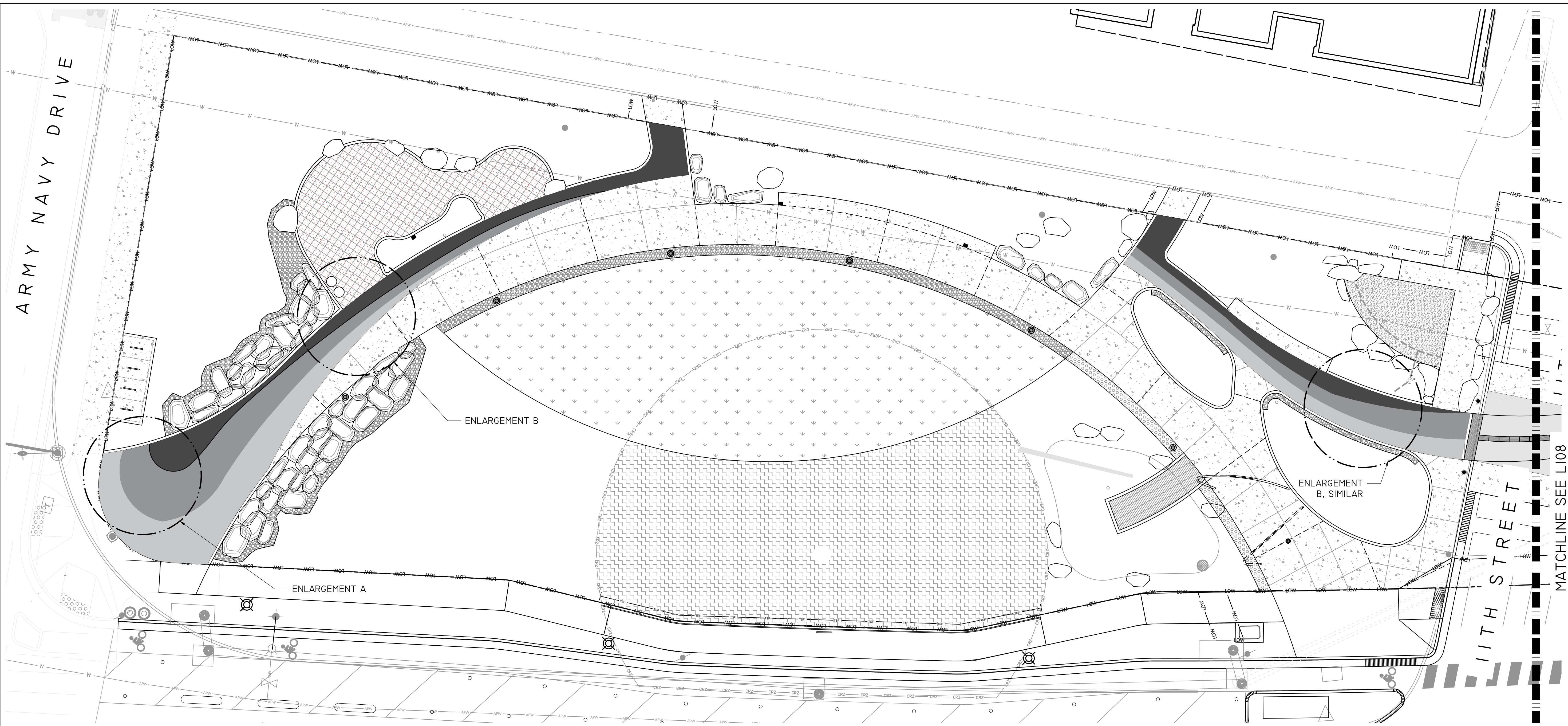
Filename:
Plotted:

Scale: AS SHOWN
Date: 04/20/2023

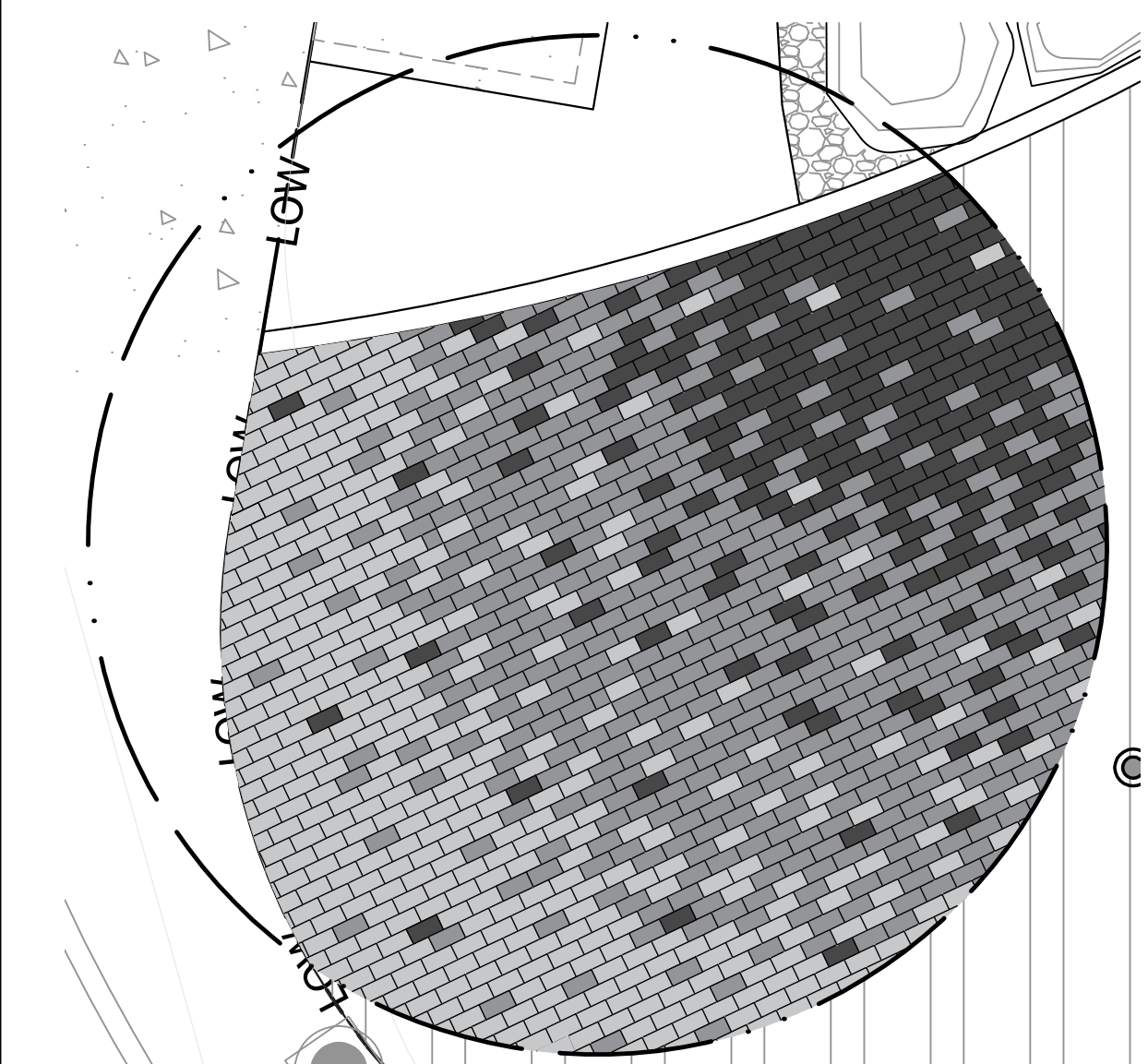
Seal



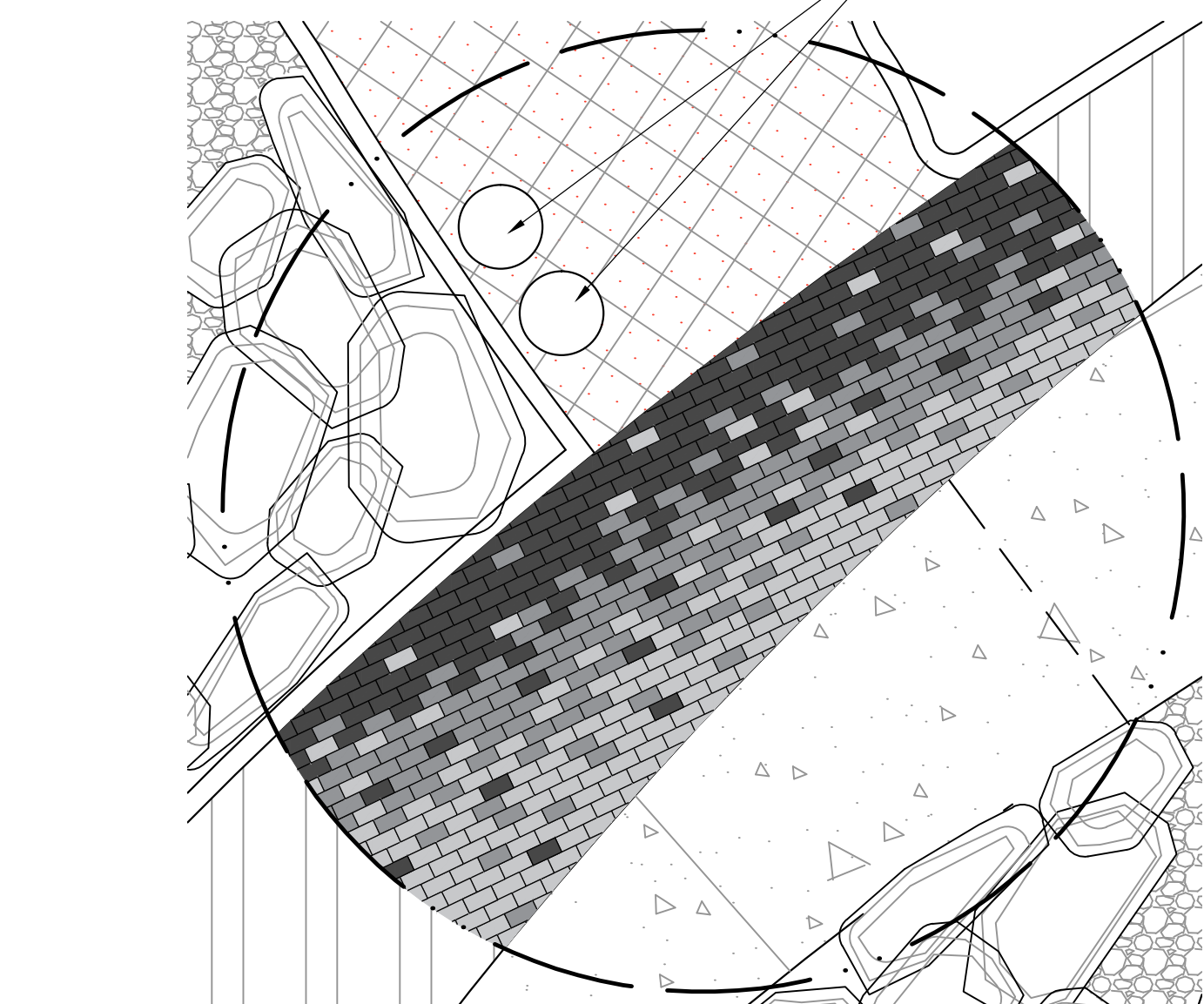
Sheet **L106**



1 PAVING PLAN
1" = 10' - 0"



2 ENLARGEMENT A
1" = 4' - 0"



3 ENLARGEMENT B
1" = 4' - 0"

PAVING LEGEND

	1 CONCRETE PAVING L312
	2 EXPANSION JOINT L312
	2 CONTROL JOINT L312
	1 POROUS UNIT PAVING L312 RUNNING BOND PATTERN
	70% DARK GREY, 20% MEDIUM GREY, 10% LIGHT GREY
	15% DARK GREY, 70% MEDIUM GREY, 15% LIGHT GREY
	5% DARK GREY, 15% MEDIUM GREY, 80% LIGHT GREY

4 PAVING LEGEND



DEPARTMENT OF PARKS AND RECREATION
Park Development Division
2100 Clarendon Boulevard, Suite 414
Arlington, VA 22201
Phone: 703.228.3332
Fax: 703.228.3328

ITB #23-DPR-ITBPW-450

#SWM 22-0224

Project Name and Location
ARLINGTON JUNCTION PARK

FINAL PLAN

1051 SOUTH EADS STREET
ARLINGTON, VIRGINIA

Sheet Title
PAVING PLAN

Approval	Date
Design Supervisor	

Revisions	Date
CEP#1	7/15/2021
CEP#2	12/21/2023
BUILDING PERMIT	02/15/2023
REVISED BUILDING PERMIT	04/20/2023
CEP #4	7/20/2023

Designed:
Drawn: JC, SM
Checked: SM, CF

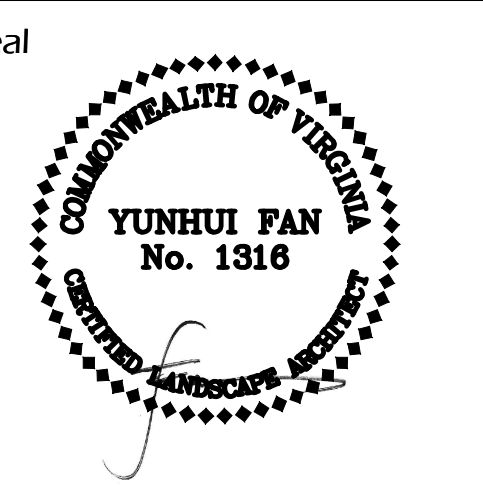
Filename:
Plotted:

Scale: AS SHOWN
Date: 04/20/2023

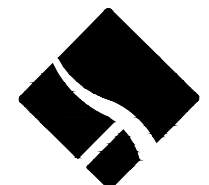
ARLINGTON COUNTY, VIRGINIA
DEPARTMENT OF ENVIRONMENTAL SERVICES

PAVING PLAN
ARLINGTON JUNCTION PARK-CIVIL ENGINEERING PLAN
1051 SOUTH EADS STREET
ARLINGTON COUNTY, VA

SCALE: AS SHOWN SHEET L107



Sheet **L107**



ARLINGTON VIRGINIA

DEPARTMENT OF PARKS AND RECREATION

Park Development Division
2100 Clarendon Boulevard, Suite 414
Arlington, VA 22201
Phone: 703.228.3332
Fax: 703.228.3328

ITB #23-DPR-ITBPW-450

#SWM 22-0224

Project Name and Location

ARLINGTON JUNCTION PARK

FINAL PLAN

1051 SOUTH EADS STREET

ARLINGTON, VIRGINIA

Sheet Title

PAVING PLAN

Approval _____ Date _____

Design Supervisor _____

Revisions _____ Date _____

CEP#1 7/15/2021

CEP#2 12/21/2023

BUILDING PERMIT 02/15/2023

REVISED BUILDING PERMIT 04/20/2023

CEP #4 7/20/2023

Designed: _____

Drawn: JC, SM

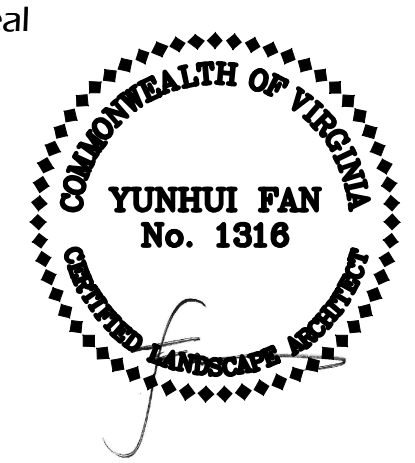
Checked: SM, CF

Filename: _____

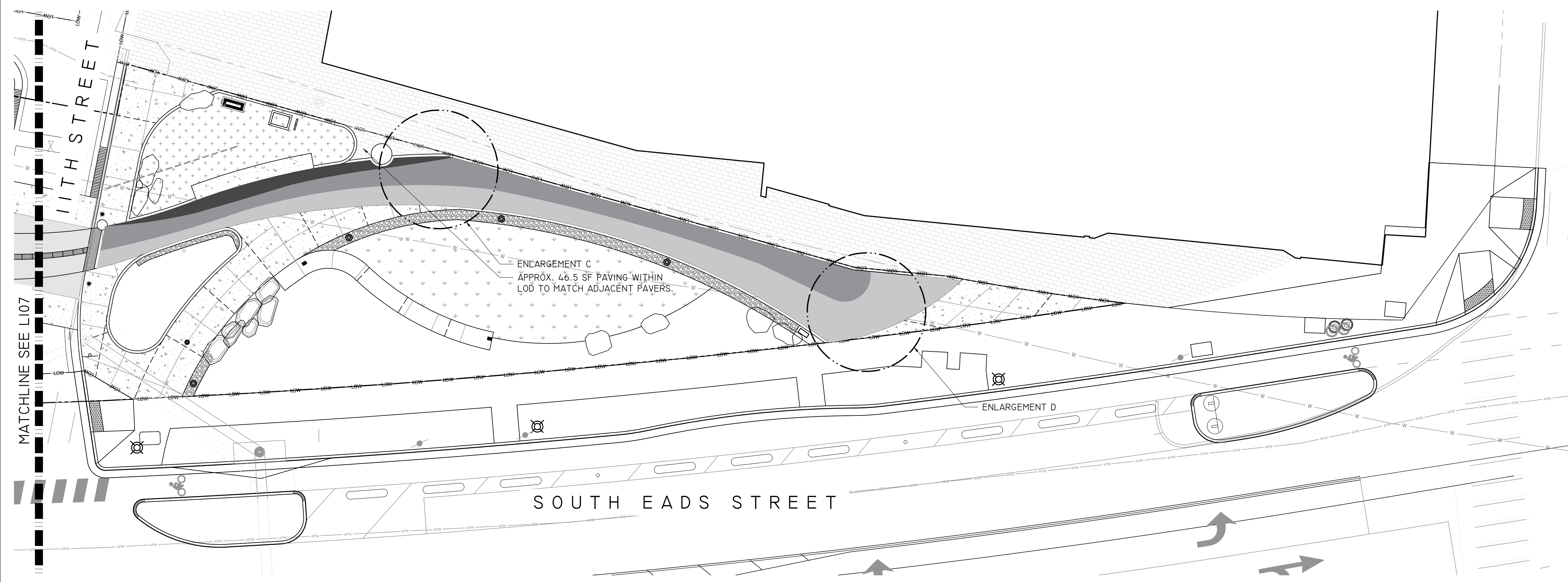
Plotted: _____

Scale: AS SHOWN
Date: 04/20/2023

Seal



Sheet **L108**

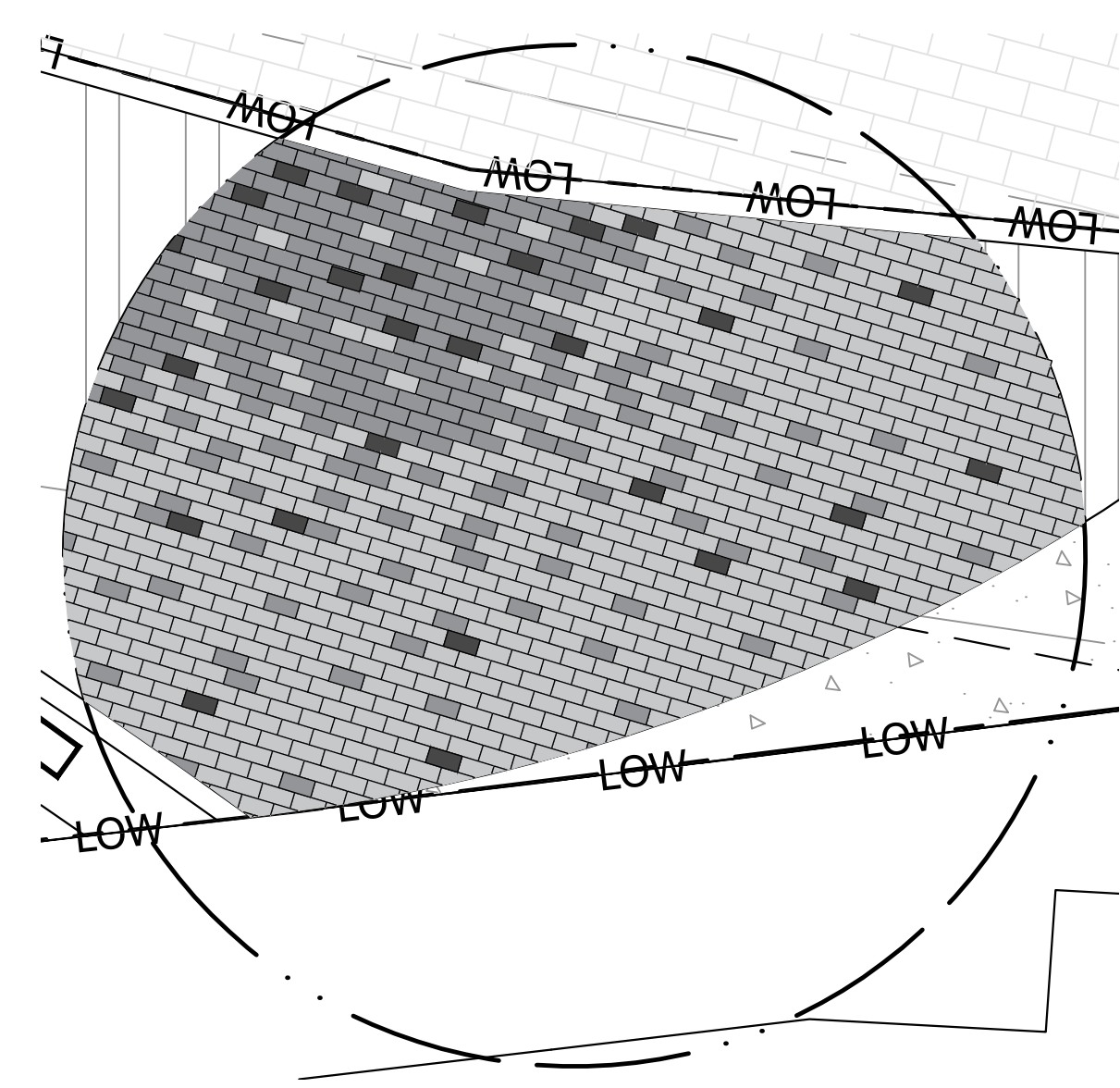
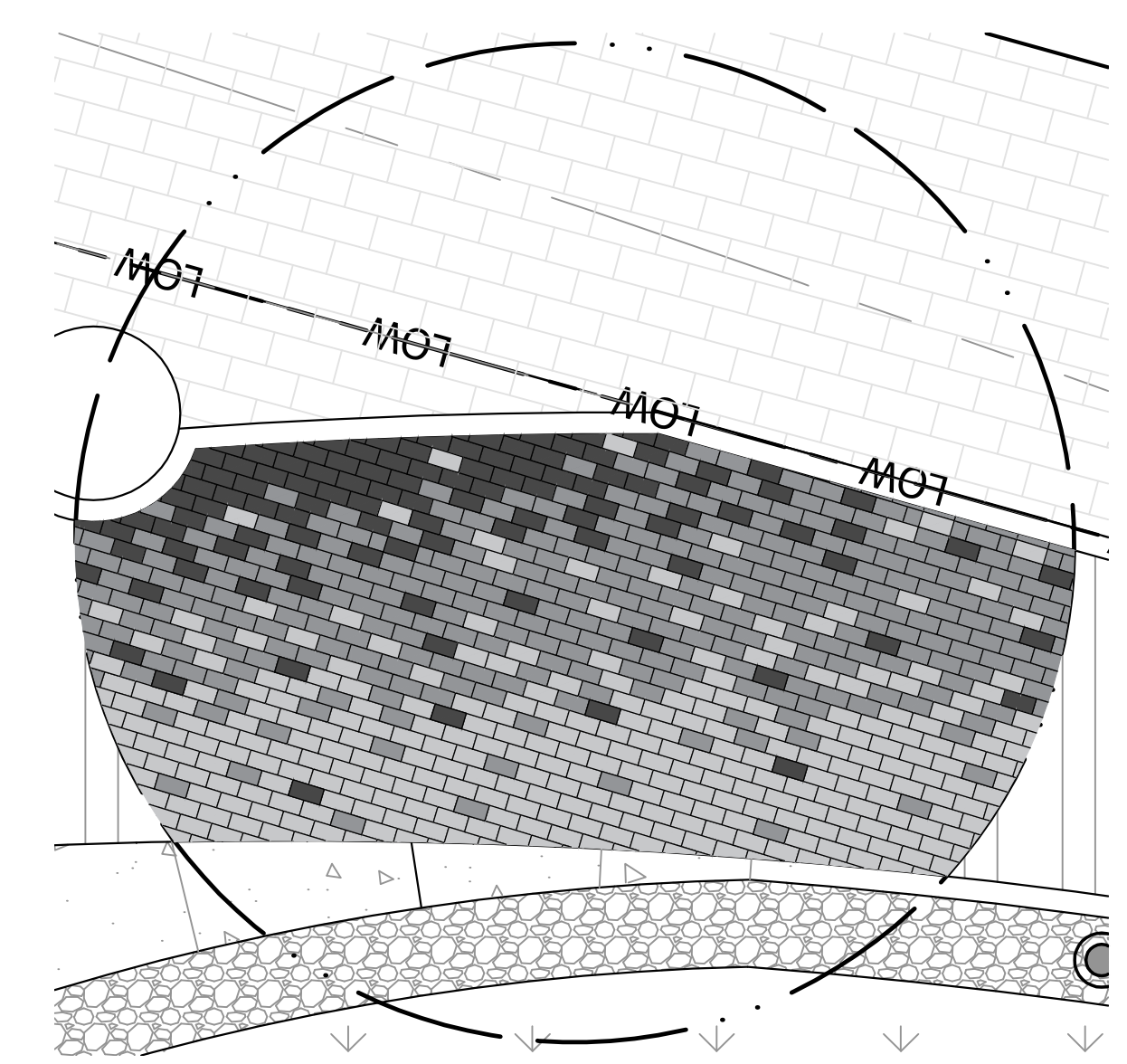
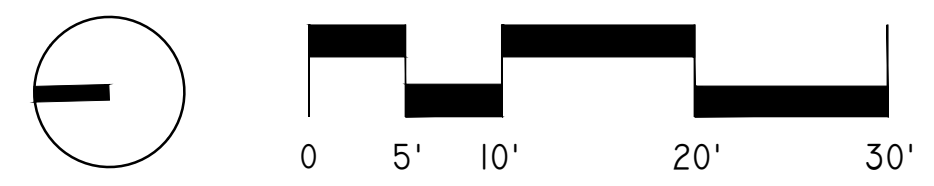


ENLARGEMENT C
APPROX. 46.5 SF PAVING WITHIN
LOD TO MATCH ADJACENT PAVERS.

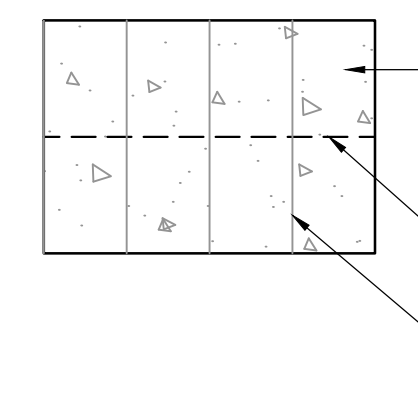
ENLARGEMENT D

SOUTH EADS STREET

1 PAVING PLAN
1" = 10' - 0"



PAVING LEGEND



- 1 CONCRETE PAVING (L312)
- 2 EXPANSION JOINT (L312)
- 2 CONTROL JOINT PAVING (L312)

- 1 POROUS UNIT PAVING (L312) RUNNING BOND PATTERN

70% DARK GREY, 20% MEDIUM GREY, 10% LIGHT GREY

15% DARK GREY, 70% MEDIUM GREY, 15% LIGHT GREY

5% DARK GREY, 15% MEDIUM GREY, 80% LIGHT GREY

2 ENLARGEMENT C
1" = 4' - 0"

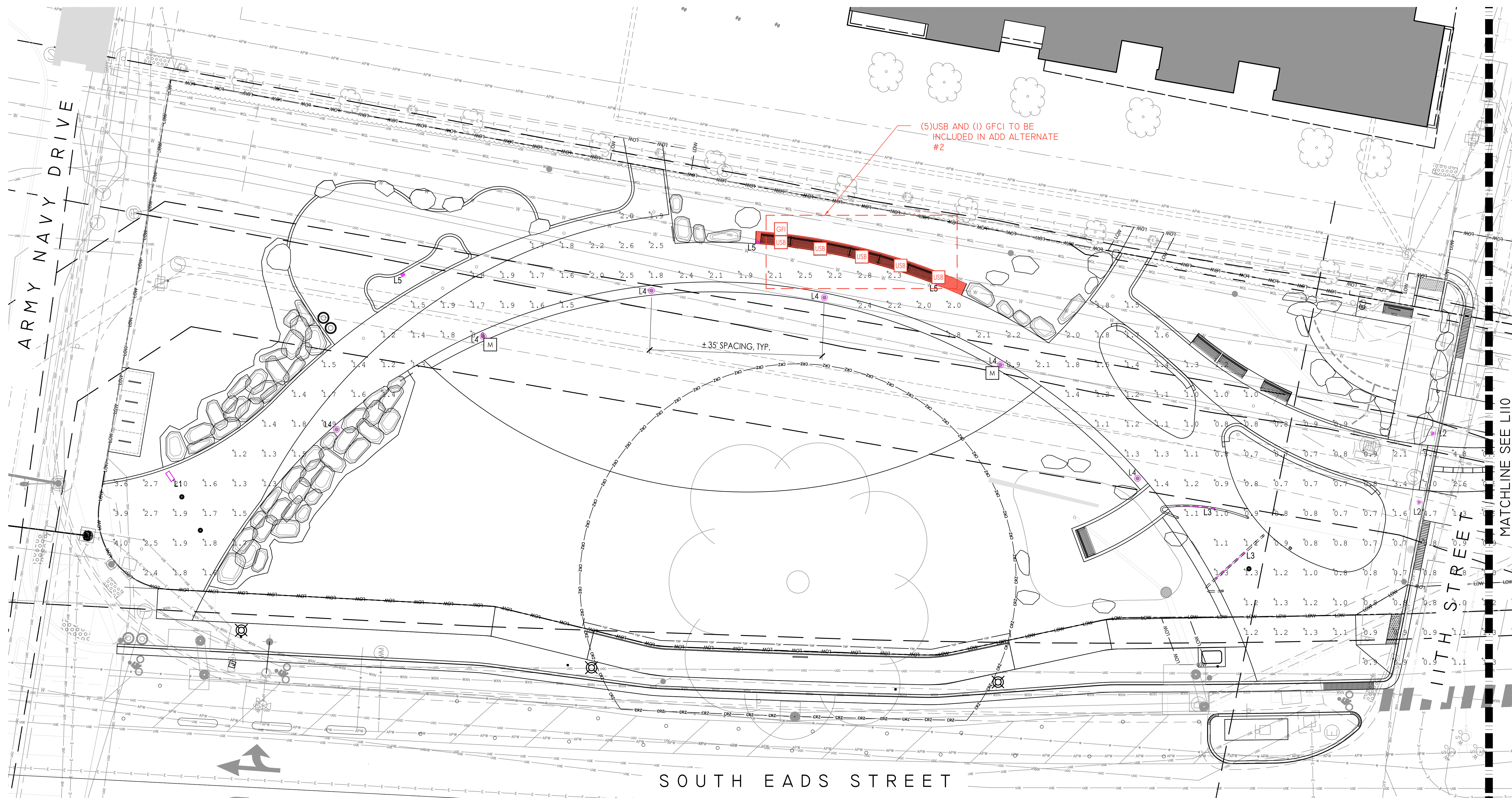
3 ENLARGEMENT D
1" = 4' - 0"

4 PAVING LEGEND











ARLINGTON COUNTY, VIRGINIA
DEPARTMENT OF ENVIRONMENTAL SERVICES

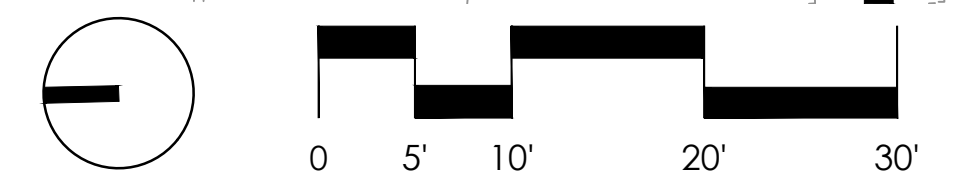
PAVING PLAN
ARLINGTON JUNCTION PARK-CIVIL ENGINEERING PLAN
1051 SOUTH EADS STREET
ARLINGTON COUNTY, VA

SCALE: AS SHOWN SHEET L108



LIGHTING/ELECTRICAL LEGEND

-  EXISTING POLE LIGHT
-  STREET LIGHTS, REFER TO STREETSCAPE PLANS
-  L1 PYLON AREA LIGHT-REFER TO STRUCTURAL FOR MOUNTING CONDITION
-  L2 BOLLARD LIGHT-REFER TO STRUCTURAL FOR MOUNTING CONDITION
-  L3 INTEGRAL STRUCTURE LEDS
-  L4 PARK POLE LIGHT-REFER TO STRUCTURAL FOR MOUNTING CONDITION
-  L5 POWER PEDESTAL
-  GFI GFI LOCATION
-  USB USB CHARGING OUTLET
-  M MAINTENANCE OUTLET



ARLINGTON COUNTY, VIRGINIA
DEPARTMENT OF ENVIRONMENTAL SERVICES

LIGHTING PLAN
ARLINGTON JUNCTION PARK-CIVIL ENGINEERING PLAN
1051 SOUTH EADS STREET
ARLINGTON COUNTY, VA

SCALE: AS SHOWN	SHEET L109	
-----------------	------------	--



DEPARTMENT OF PARKS AND RECREATION
Park Development Division
2100 Clarendon Boulevard, Suite 414
Arlington, VA 22201
Phone: 703.228.3332
Fax: 703.228.3328

ITB #23-DPR-ITBPW-450

#SWM 22-0224

Project Name and Location
ARLINGTON JUNCTION PARK

FINAL PLAN

1051 SOUTH EADS STREET
ARLINGTON, VIRGINIA

Sheet Title
LIGHTING PLAN

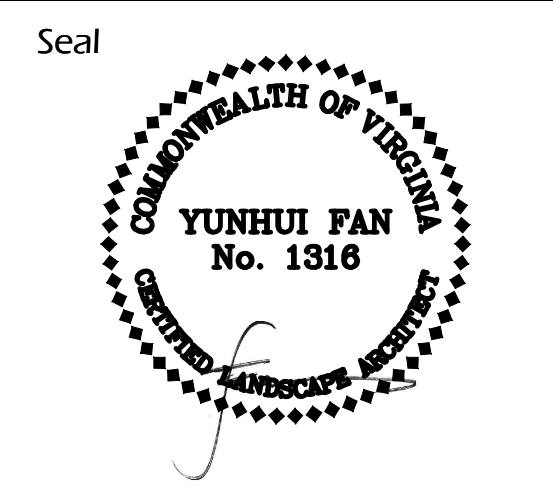
Approval _____ Date _____
Design Supervisor _____

Revisions	Date
CEP#1	7/15/2021
CEP#2	12/21/2023
BUILDING PERMIT	02/15/2023
REVISED BUILDING PERMIT	04/20/2023
CEP #4	7/20/2023

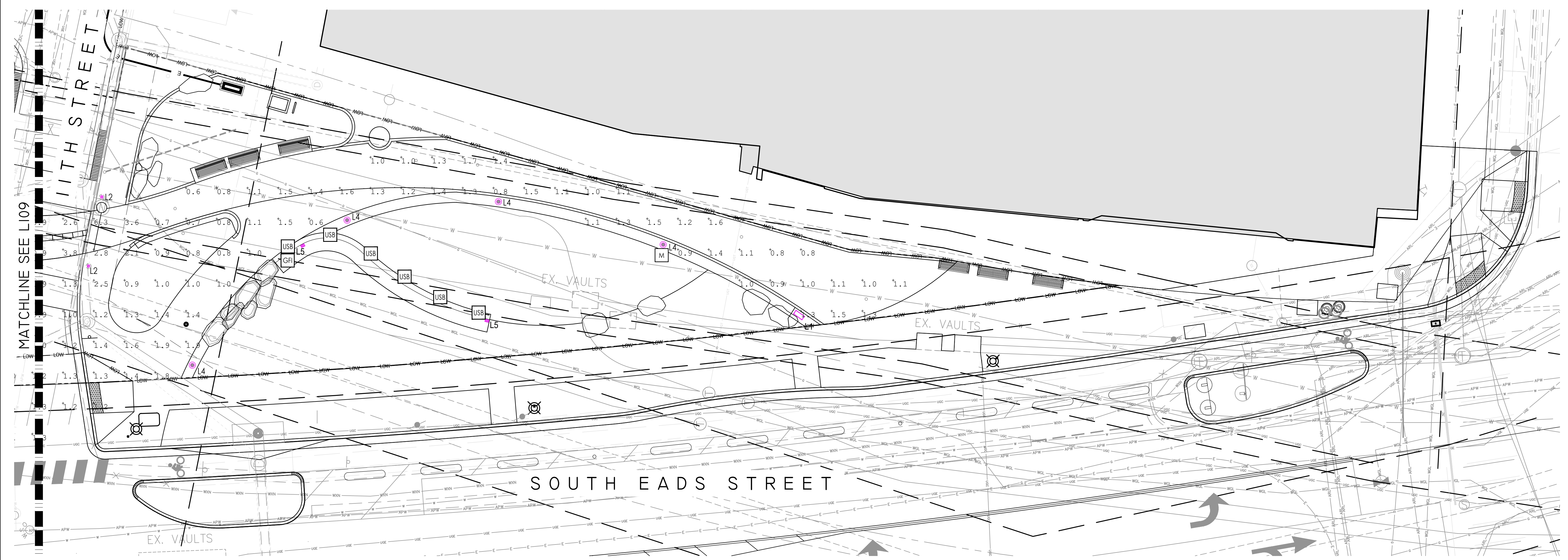
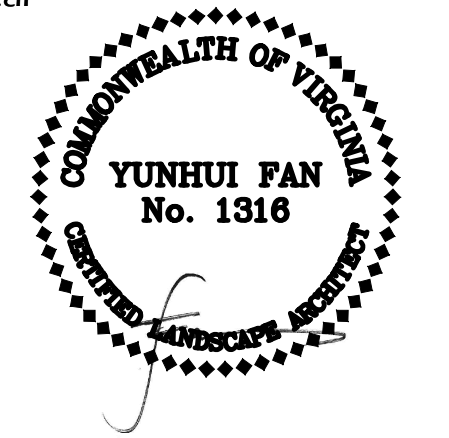
Designed: _____
Drawn: JC, SM
Checked: SM, CF

Filename: _____
Plotted: _____







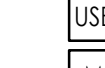



Scale: AS SHOWN
Date: 04/20/2023



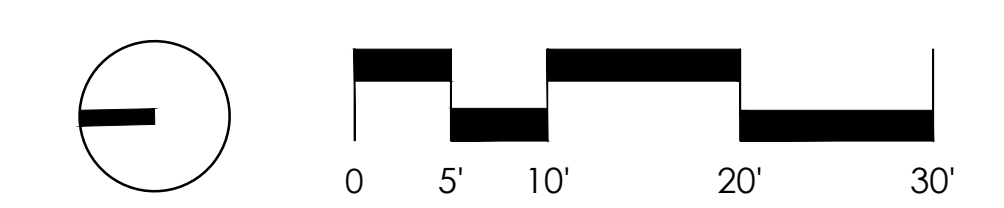
Sheet **L109**



LIGHTING/ELECTRICAL LEGEND

-  EXISTING POLE LIGHT
-  STREET LIGHTS, REFER TO STREETScape PLANS
-  L1 PYLON AREA LIGHT-REFER TO STRUCTURAL FOR MOUNTING CONDITION
-  L2 BOLLARD LIGHT-REFER TO STRUCTURAL FOR MOUNTING CONDITION
-  L3 INTEGRAL STRUCTURE LEDS
-  L4 PARK POLE LIGHT-REFER TO STRUCTURAL FOR MOUNTING CONDITION
-  L5 POWER PEDESTAL
-  GFI LOCATION
-  USB CHARGING OUTLET
-  MAINTENANCE OUTLET

LIGHTING/ELECTRICAL SCHEDULE					
TAG	REFERENCE SHEETS	QTY.	DESCRIPTION	PRODUCT NUMBER	SUMMARY
L1	1/L318	2	WAYFINDING PYLON LIGHT	CUSTOM FIXTURE, 15' HEIGHT, 4000K	-
L2	5/L318	4	BOLLARD LIGHT	BEGA 88 060	-
L3	LED ACCENT LIGHTING NOT INCLUDED IN CALCUALTIONS				
L4	7/L318	10	PARK POLE LIGHT	BEGA 84 875	-
L5	REFER TO PRODUCT SCHEDULE				
AVG. FC FOR PRIMARY CIRCULATION					1.48 FC
MIN. FC FOR PRIMARY CIRCULATION					0.6 FC



ARLINGTON COUNTY, VIRGINIA
DEPARTMENT OF ENVIRONMENTAL SERVICES

LIGHTING PLAN
ARLINGTON JUNCTION PARK-CIVIL ENGINEERING PLAN
1051 SOUTH EADS STREET
ARLINGTON COUNTY, VA

SCALE: AS SHOWN SHEET L110

ITB #23-DPR-ITBPW-450

#SWM 22-0224

Project Name and Location
ARLINGTON JUNCTION PARK

FINAL PLAN

1051 SOUTH EADS STREET
 ARLINGTON, VIRGINIA

Sheet Title
MAINTENANCE ACCESS DIAGRAM

Approval _____ Date _____
 Design Supervisor _____

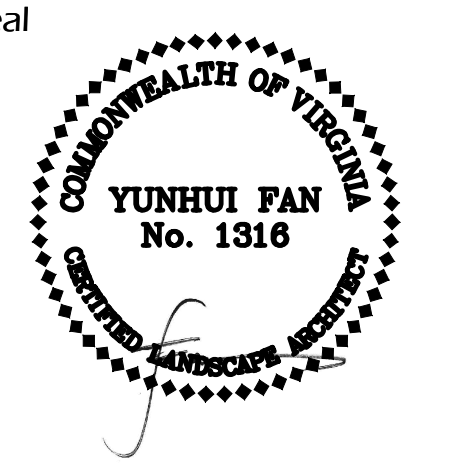
Revisions	Date
CEP#1	7/15/2021
CEP#2	12/21/2023
BUILDING PERMIT	02/15/2023
REVISED BUILDING PERMIT	04/20/2023
CEP #4	7/20/2023

Designed: _____
 Drawn: JC, SM
 Checked: SM, CF

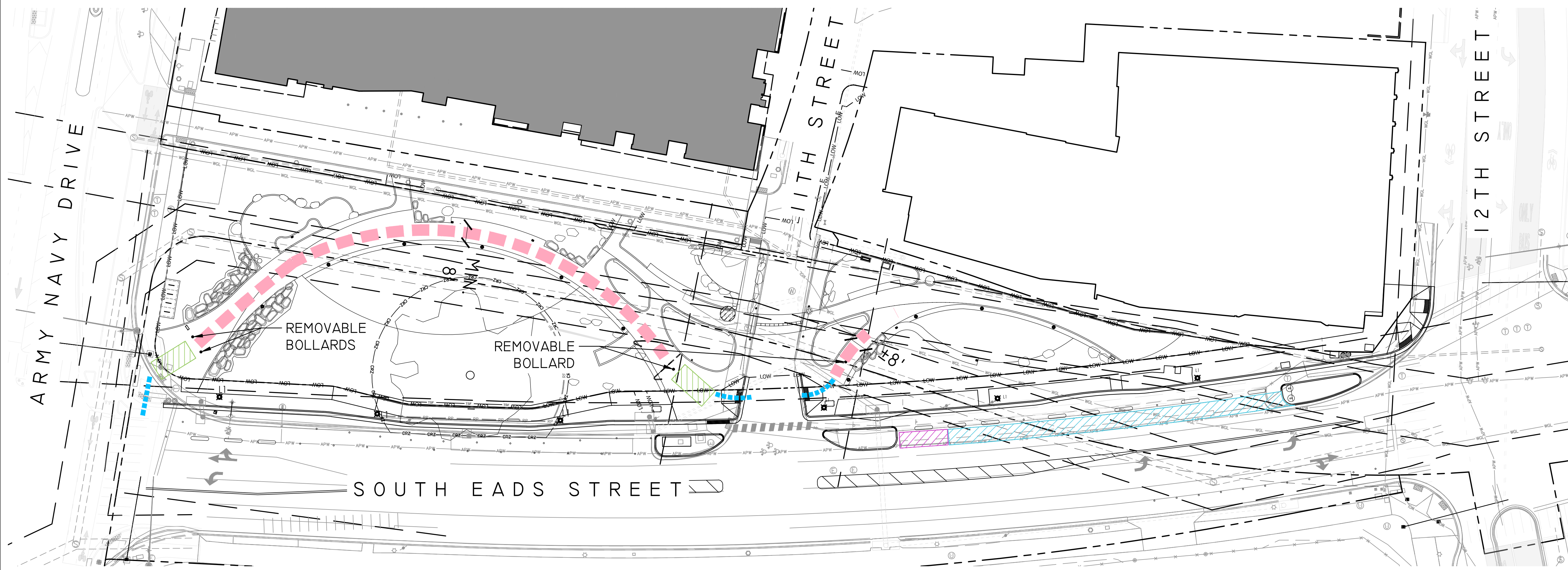
Filename: _____
 Plotted: _____

Scale: AS SHOWN
 Date: 04/20/2023

Seal



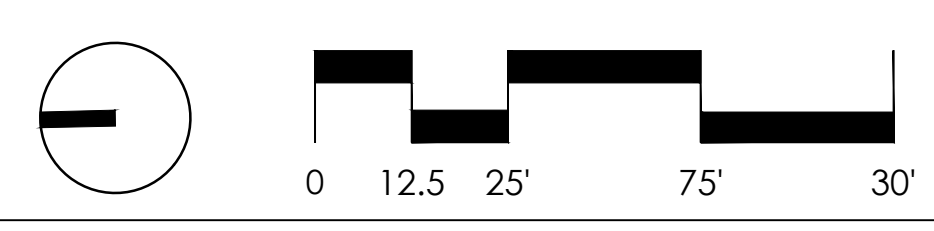
Sheet **L111**



1 MAINTENANCE ACCESS DIAGRAM

MAINTENANCE ACCESS LEGEND

- 9X18 VEHICULAR ACCESS FOR ROUTINE MAINTENANCE
- CURB RAMPS TO ENTER PARK
- VEHICULAR-GRADE PAVING ROUTE FOR OCCASIONAL USE
- PUBLIC PARKING
- COUNTY PARKING SPOT



ARLINGTON COUNTY, VIRGINIA
 DEPARTMENT OF ENVIRONMENTAL SERVICES
 MAINTENANCE ACCESS DIAGRAM
 ARLINGTON JUNCTION PARK-CIVIL ENGINEERING PLAN
 1051 SOUTH EADS STREET
 ARLINGTON COUNTY, VA

SCALE: AS SHOWN SHEET L111

Approval	Date
Design Supervisor	

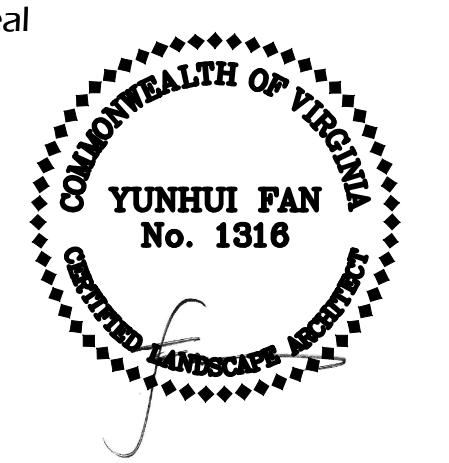
Revisions	Date
CEP#1	7/15/2021
CEP#2	12/21/2023
BUILDING PERMIT	02/15/2023
REVISED BUILDING PERMIT	04/20/2023
CEP #4	7/20/2023

Designed:
Drawn: JC, SM
Checked: SM, CF

Filename:
Plotted:

Scale: AS SHOWN
Date: 04/20/2023

Seal



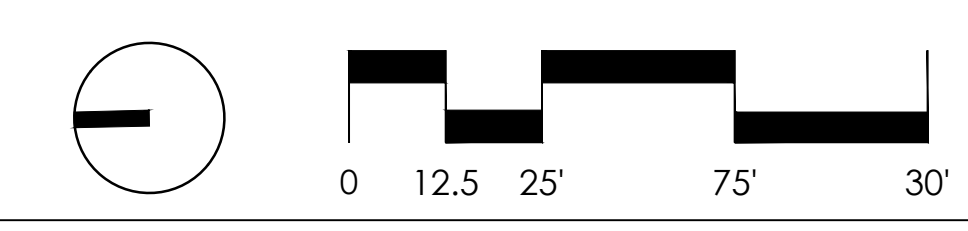
1 ADA ACCESS DIAGRAM

ADA ACCESS LEGEND

- ACCESSIBLE ROUTE
- ACCESSIBLE SIDEWALK N.I.C, REFER TO DES S. EADS ROAD PROJECT
- ACCESSIBLE AMENITY AREA
- ACCESSIBLE SEATING AREA

GRADING & ADA COMPLIANCE NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL ELEMENTS ARE CONSTRUCTED IN ACCORDANCE WITH THE DESIGN DOCUMENTS AND CONTRACT CONDITIONS INCLUDING THE 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN (ADA) AND THE VIRGINIA ACCESSIBILITY CODE AND ANY UPDATES. IF THE CONTRACTOR OBSERVES THAT PORTIONS OF THE PROJECT ARE NON-COMPLIANT WITH THE ADA, HE SHALL NOTIFY ARLINGTON COUNTY CONSTRUCTION MANAGER SO THAT A FIELD ADJUSTMENT CAN BE MADE TO ENSURE COMPLIANCE. GRADE TOLERANCES SHALL BE MEASURED WITH A 2 FOOT DIGITAL LEVEL.
2. VERIFY ALL EXISTING AND PROPOSED GRADES PRIOR TO FINAL CONSTRUCTION. CONTRACTOR SHALL STAKE OUT GRADES IN THE FIELD FOR REVIEW BY ARLINGTON COUNTY CONSTRUCTION MANAGER PRIOR TO FINAL CONSTRUCTION.
3. PROPOSED GRADING SHALL MEET EXISTING GRADE UNIFORMLY TO ENSURE A SMOOTH TRANSITION. NOTIFY ARLINGTON COUNTY CONSTRUCTION MANAGER IMMEDIATELY IF THERE ARE ANY EDGE CONDITIONS THAT CREATE AREAS WITHOUT POSITIVE DRAINAGE.
4. ALL LONGITUDINAL SLOPES ALONG THE WALKS SHALL BE NO STEEPER THAN 4.8% WITHOUT RAILING AND 7.8% WITH RAILING. THE CROSS SLOPE SHALL BE MINIMUM 1% AND MAXIMUM 1.8% OR AS NOTED ON THE DRAWINGS. ALL LANDING AND TRANSITION AREAS SHALL BE LESS THAN 1.8% IN ALL DIRECTIONS. THESE LIMITS PROVIDE A 0.2% MARGIN FROM THE A.O.J. ADA REQUIREMENTS TO ALLOW FOR CONSTRUCTION TOLERANCES.
5. ANY HARDSCAPE SURFACE AREAS THAT ARE BUILT WITHOUT COMPLYING WITH THE ABOVE CODE MUST BE CORRECTED BY CONTRACTOR AT NO ADDITIONAL EXPENSE.
6. THE MAXIMUM VERTICAL CHANGE BETWEEN THE FINISH GRADES OF ADJACENT HARDSCAPE SURFACES IS 1/4". THE MAXIMUM HORIZONTAL GAP BETWEEN THE EDGES OF ADJACENT HARDSCAPE SURFACES IS 3/8".



ARLINGTON COUNTY, VIRGINIA DEPARTMENT OF ENVIRONMENTAL SERVICES	
ADA ACCESS DIAGRAM ARLINGTON JUNCTION PARK-CIVIL ENGINEERING PLAN 1051 SOUTH EADS STREET ARLINGTON COUNTY, VA	
SCALE: AS SHOWN	SHEET L112

ITB #23-DPR-ITBPW-450

#SWM 22-0224

Project Name and Location
**ARLINGTON
JUNCTION PARK**

FINAL PLAN

1051 SOUTH EADS STREET
ARLINGTON, VIRGINIA

Sheet Title
**CONSTRUCTION
ACCESS
DIAGRAM**

Approval _____ Date _____
Design Supervisor _____

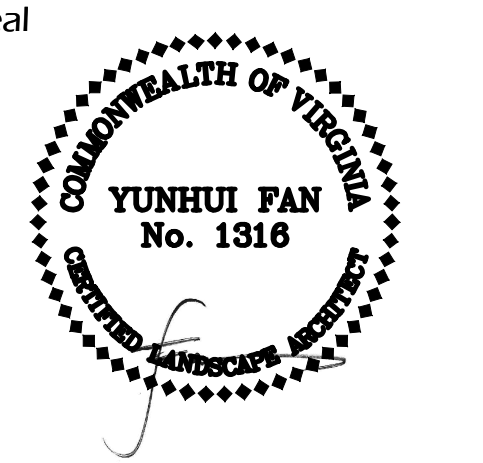
Revisions	Date
CEP#1	7/15/2021
CEP#2	12/21/2023
BUILDING PERMIT	02/15/2023
REVISED BUILDING PERMIT	04/20/2023
CEP #4	7/20/2023

Designed:
Drawn: JC, SM
Checked: SM, CF

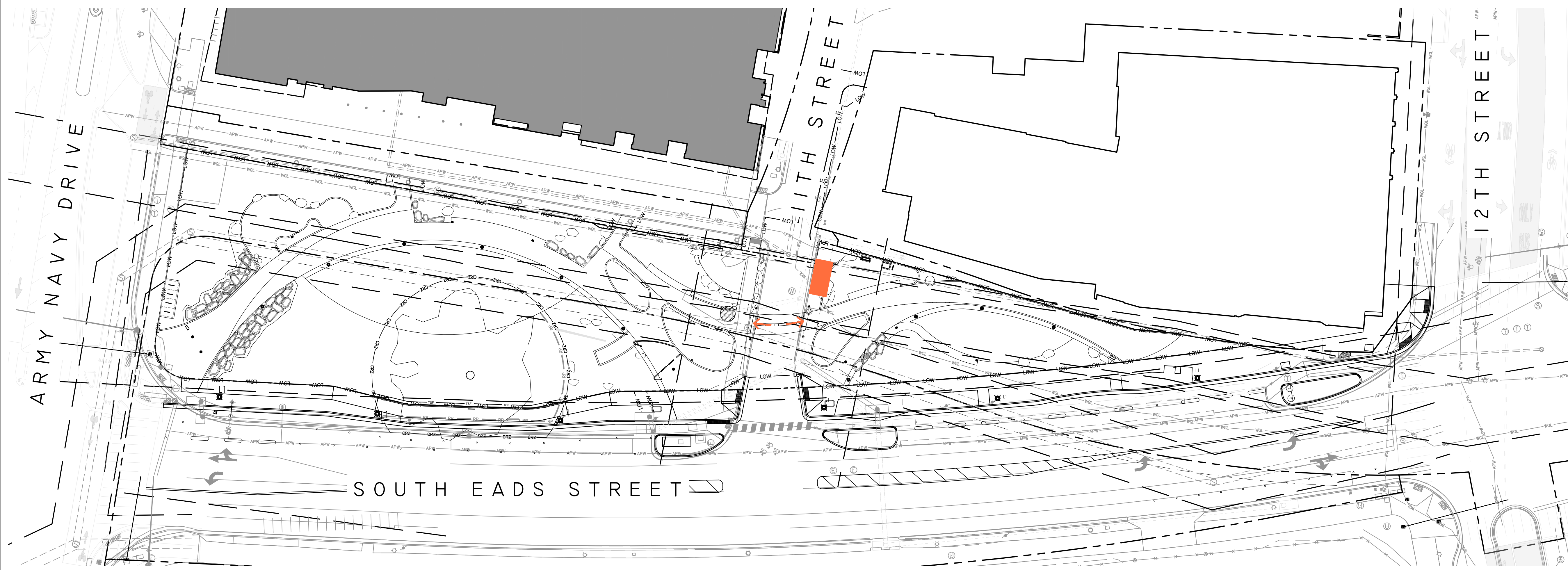
Filename:
Plotted:

Scale: AS SHOWN
Date: 04/20/2023

Seal



Sheet **L113**



1 CONSTRUCTION ACCESS DIAGRAM

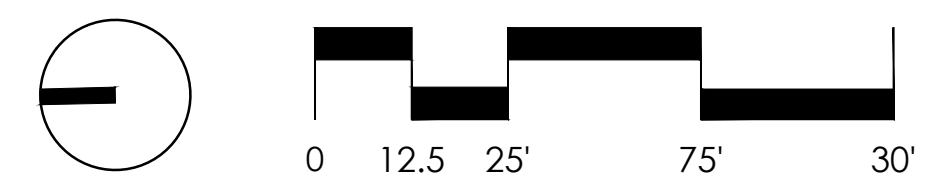
CONSTRUCTION ACCESS LEGEND

- POTENTIAL TRAILER LOCATION
- POTENTIAL CONSTRUCTION ENTRANCE

ARLINGTON COUNTY, VIRGINIA
DEPARTMENT OF ENVIRONMENTAL SERVICES

CONSTRUCTION ACCESS DIAGRAM
ARLINGTON JUNCTION PARK-CIVIL ENGINEERING PLAN
1051 SOUTH EADS STREET
ARLINGTON COUNTY, VA

SCALE: AS SHOWN SHEET L113



Approval	Date
Design Supervisor	

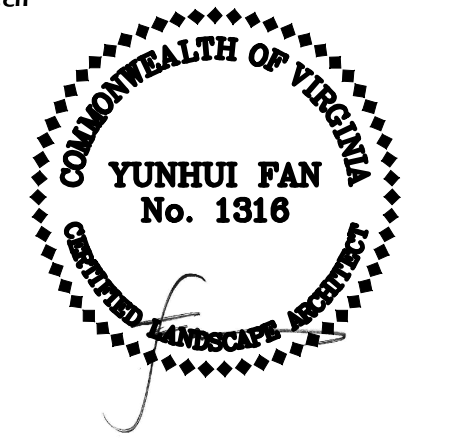
Revisions	Date
CEP#1	7/15/2021
CEP#2	12/21/2023
BUILDING PERMIT	02/15/2023
REVISED BUILDING PERMIT	04/20/2023
CEP #4	7/20/2023

Designed:
 Drawn: JC, SM
 Checked: SM, CF

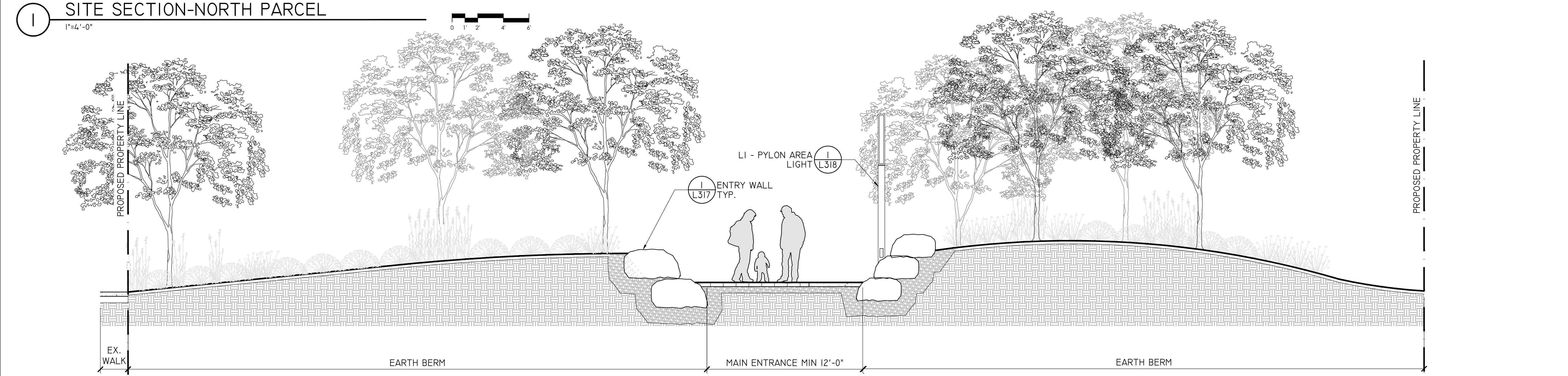
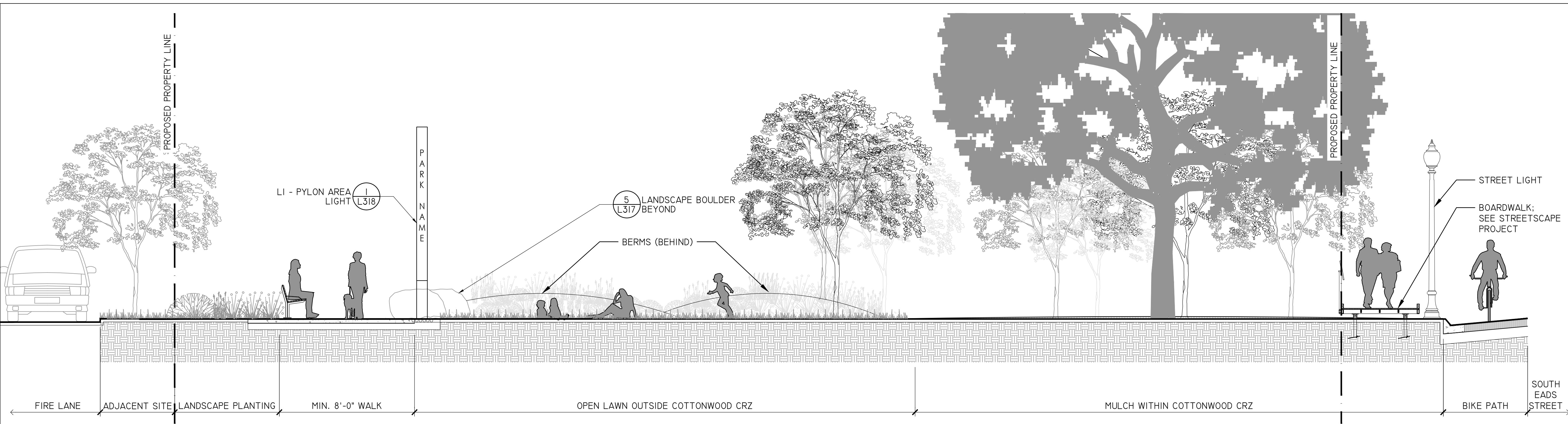
Filename:
 Plotted:

Scale: AS SHOWN
 Date: 04/20/2023

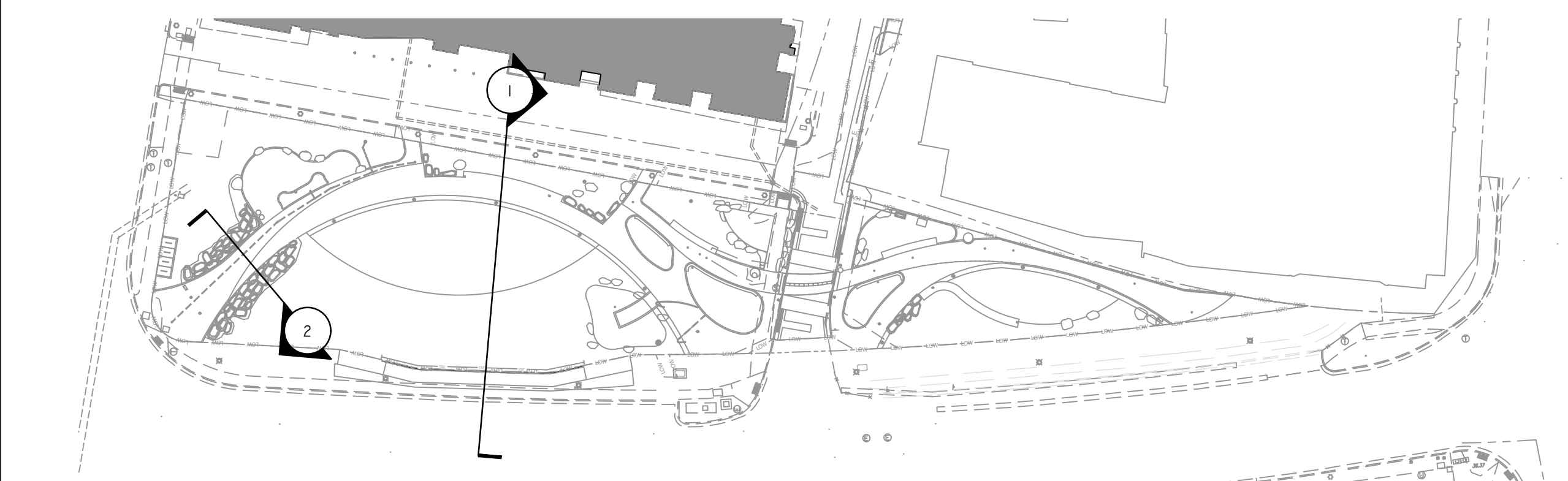
Seal



Sheet **L301**



NOTE: SECTIONS FOR DESIGN INTENT ONLY



ARLINGTON COUNTY, VIRGINIA
 DEPARTMENT OF ENVIRONMENTAL SERVICES

SECTIONS AND ELEVATIONS
 ARLINGTON JUNCTION PARK-CIVIL ENGINEERING PLAN
 1051 SOUTH EADS STREET
 ARLINGTON COUNTY, VA

SCALE: AS SHOWN SHEET L301

Approval	Date
Design Supervisor	

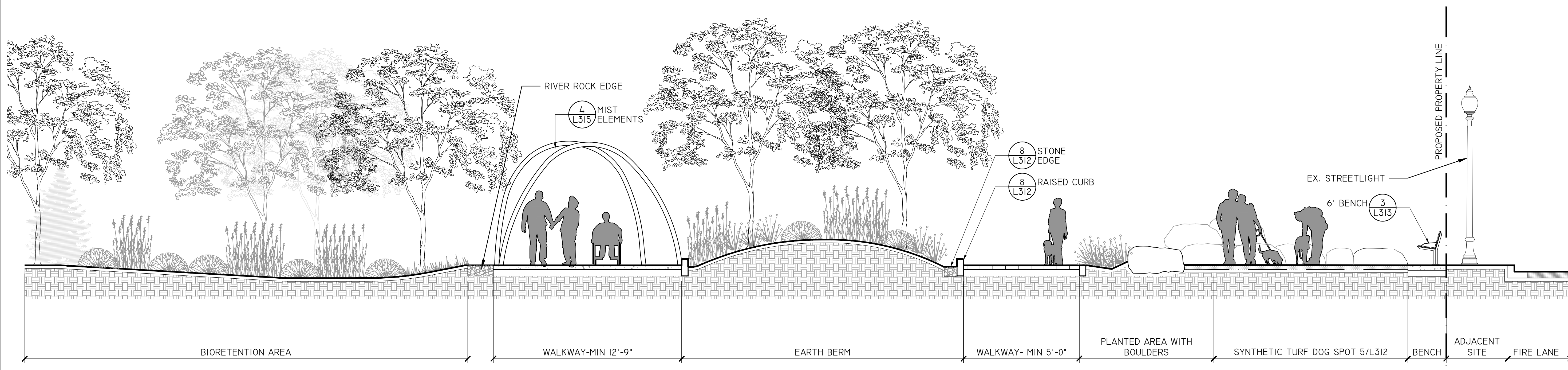
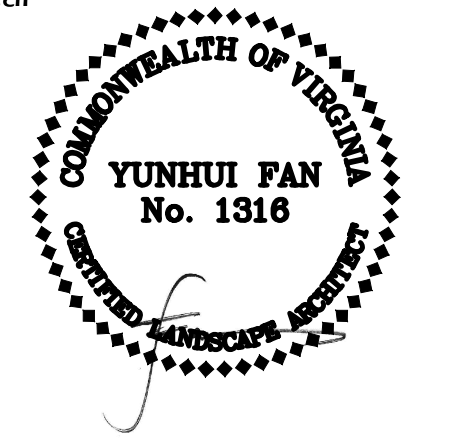
Revisions	Date
CEP#1	7/15/2021
CEP#2	12/21/2023
BUILDING PERMIT	02/15/2023
REVISED BUILDING PERMIT	04/20/2023
CEP #4	7/20/2023

Designed:
 Drawn: JC, SM
 Checked: SM, CF

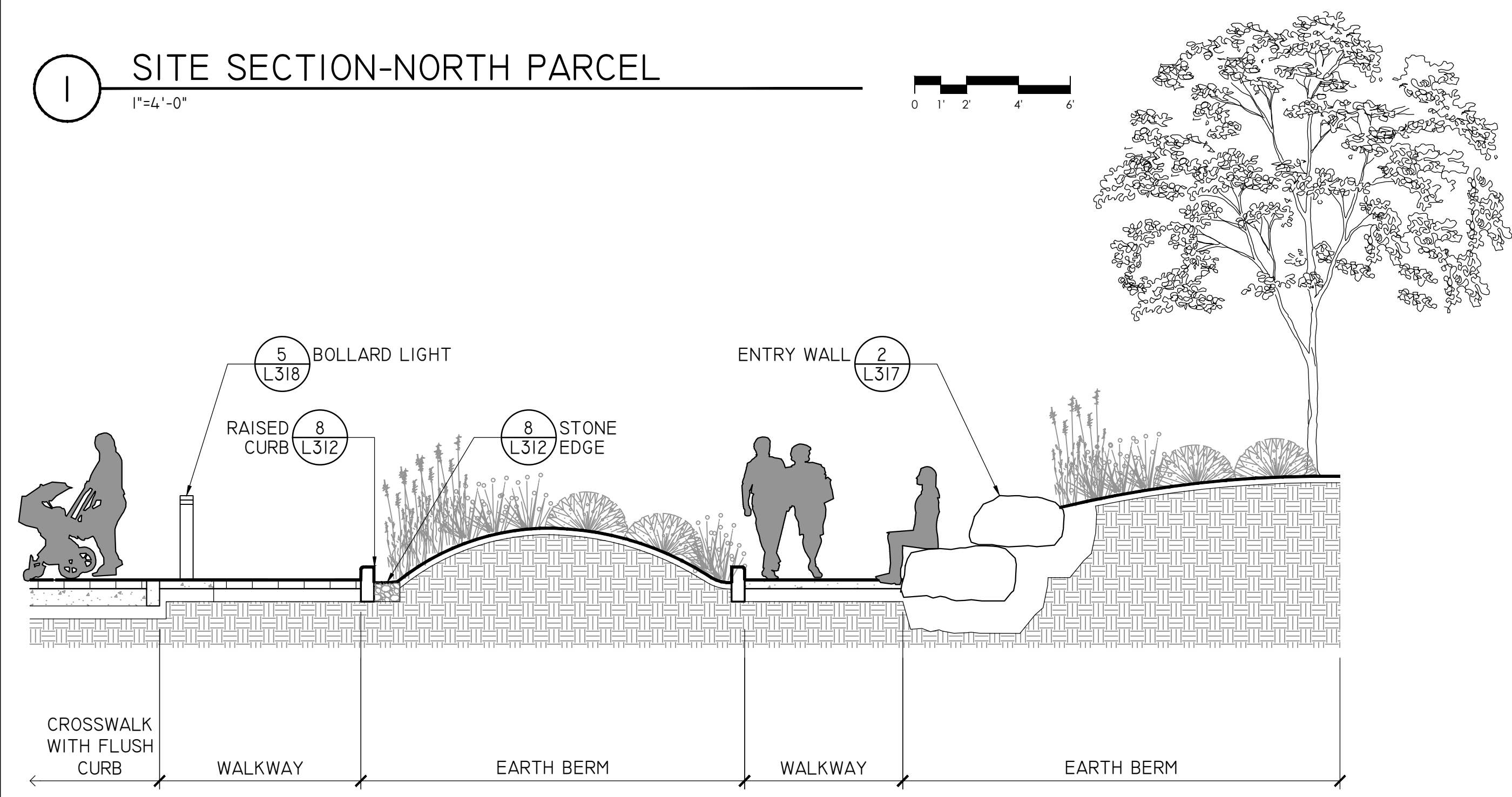
Filename:
 Plotted:

Scale: AS SHOWN
 Date: 04/20/2023

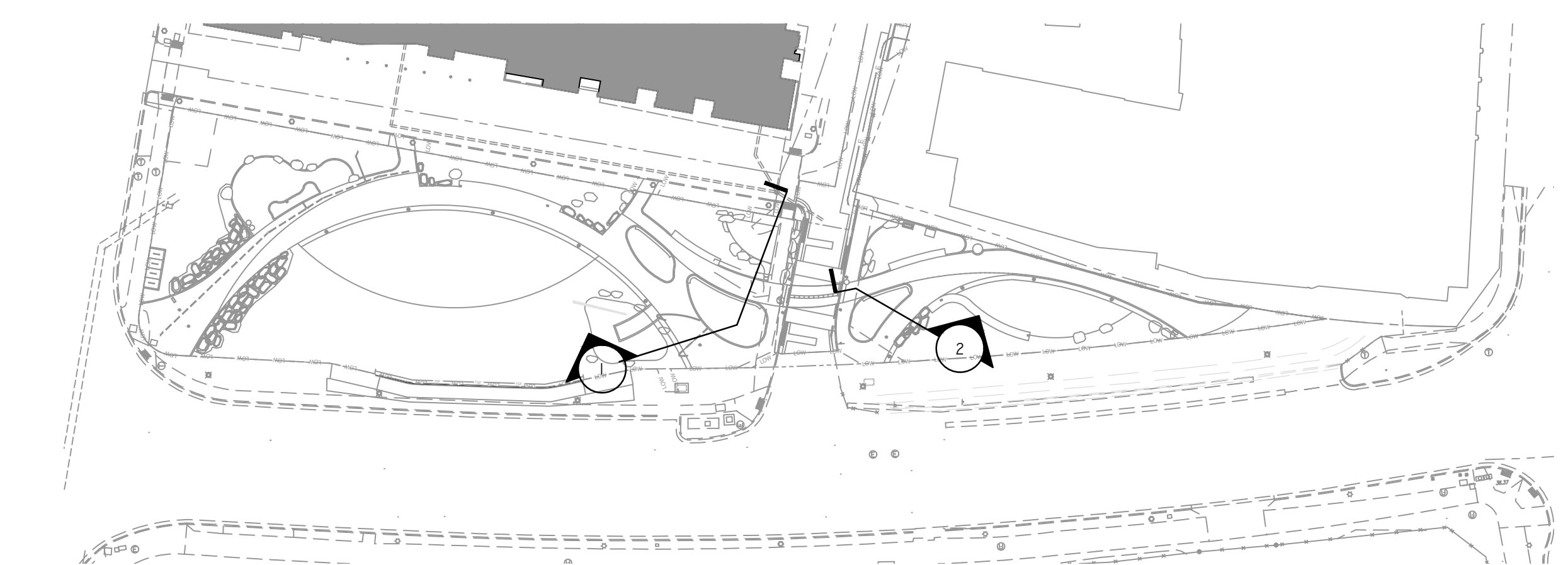
Seal



1 SITE SECTION-NORTH PARCEL
 1"=4'-0"



2 SITE SECTION-SOUTH PARCEL
 1"=4'-0"



3 KEY
 1"=50'-0"

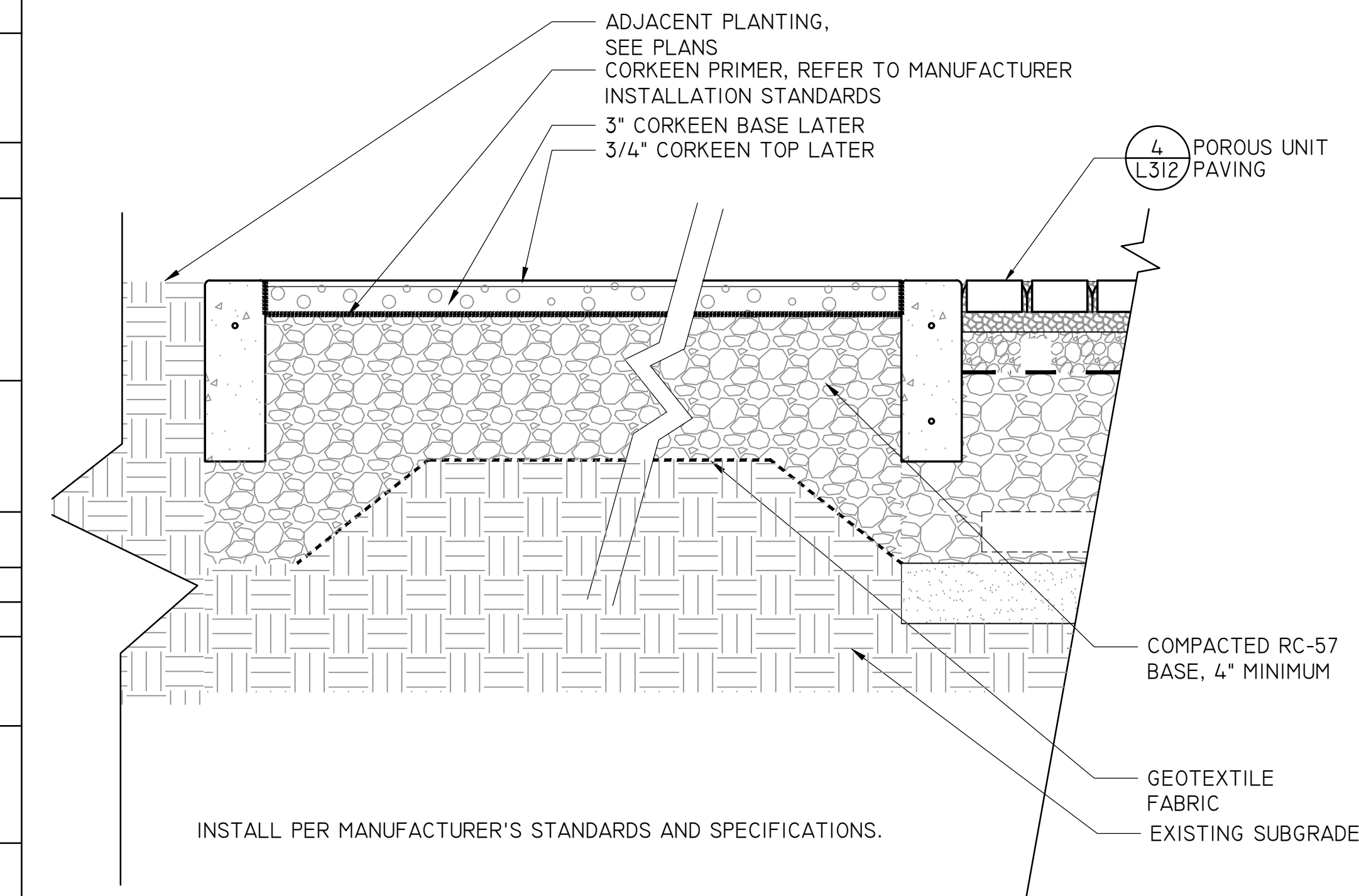
ARLINGTON COUNTY, VIRGINIA
 DEPARTMENT OF ENVIRONMENTAL SERVICES

SECTIONS AND ELEVATIONS
 ARLINGTON JUNCTION PARK-CIVIL ENGINEERING PLAN
 1051 SOUTH EADS STREET
 ARLINGTON COUNTY, VA

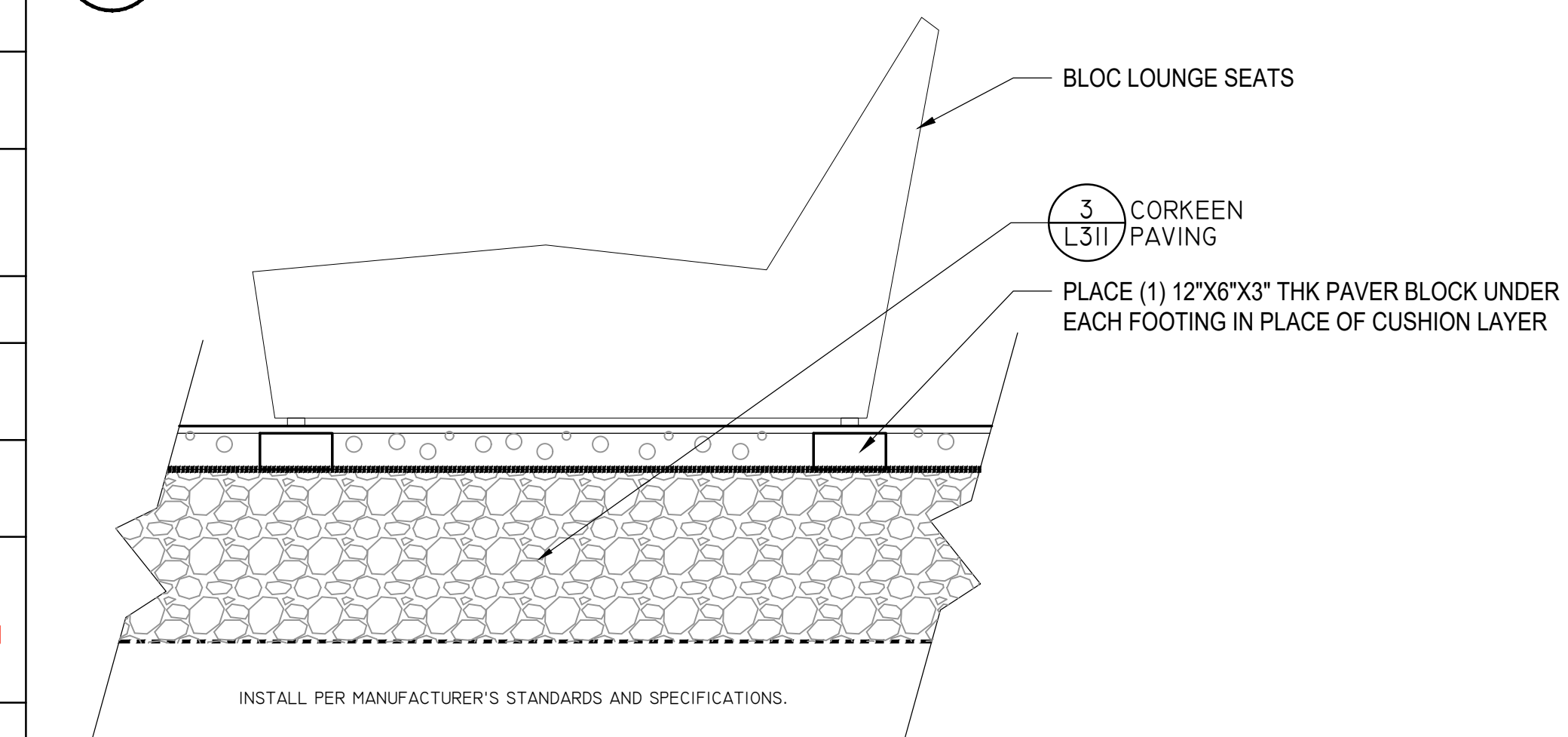
SCALE: AS SHOWN SHEET L302

DESIGNATION	MANUFACTURER	MODEL	FINISH	COLOR	OTHER	QTY
PAVING/HARDSCAPE						
P-2 POROUS UNIT PAVING	HANOVER ARCHITECTURAL PRODUCTS 800-426-4242	PERMEABLE 4.5X9, 3" THICKNESS	HEAVY TUDOR	LIMESTONE GRAY, CHARCOAL, AND GLACIER WHITE		
FLEXIPAVE (ADD ALTERNATE #1)	CAPITAL FLEXIPAVE	FLEXIPAVE	N/A	TBD		
P-3 CORKEEN PAVING (RECOMMENDED BY DPR)	CORKEEN BY AMORIM +351 22 747 5300	CORKEEN BY AMORIM	N/A	N/A		
P-4 SYNTHETIC TURF (ADD ALTERNATE #3)	SYNLAWN 866-796-5296	PET PREMIUM	N/A	N/A	USE APPROVED ANIMAL SAFE INFILL	
P-5 & P-5A STAMPED COLORED CONCRETE	SILKA CORPORATION, 201-933-8800	NEW BRICK RUNNING BOND (P-5A)		INTEGRAL COLOR CONCRETE (P-5 & P-5A): GULL GRAY RELEASE AGENT (P-5A): STORM GRAY		
P-7 LONGITUDINAL DIRECTIONAL PAVERS	ARMOR TILE 800-682-2525	DETECTABLE/TACTILE WARNING SURFACE GUIDANCE TILE		DARK GRAY	SEE PLANS FOR LAYOUT AND LOCATIONS	
BOULDER TYPE 1	IRWIN STONE 301-762-5800	PENNSYLVANIA WEATHERED STEPPING STONE OR WESTERN MARYLAND STEPPING STONES	SPLIT FACE	TANS AND GRAYS	STONES TO HAVE RELATIVELY FLAT TOP AND BOTTOM SUITABLE FOR STACKING. GENERALLY SIZED BETWEEN 15"-20" H, 2'-4' WIDE, 5'-8' LONG. TO BE SELECTED BY THE LANDSCAPE ARCHITECT AT STONE QUARRY.	75
BOULDER TYPE 2		PENNSYLVANIA WEATHERED STONE OR WESTERN MARYLAND STONES	NATURALLY WEATHERED FINISH WITH LICHENS AND MOSSES	TANS AND GRAYS	GENERALLY SIZED BETWEEN 20"-30" H, 2'-3' WIDE, 4'-6' LONG. TO BE PICKED BY THE LANDSCAPE ARCHITECT AT STONE YARD.	45
RIVER JACK STONE		MD RIVERJACK	N/A	TANS AND GRAYS	3'-5" STONE SIZE	
SITE FURNISHING						
BENCH	LANDSCAPE FORMS 800-430-6209	GENERATION 50 BENCH	THERMALLY MODIFIED ASH	POWDERCOATED METAL COLOR TBD TO BE SELECTED BY PROJECT LANDSCAPE ARCHITECT FROM MANUFACTURER'S FULL RANGE	PROVIDE BACKED OPTION WITH LOOPED END ARMS, STANDARD SURFACE MOUNT	20
					PROVIDE BACKLESS, ARMLESS BENCHES, STANDARD SURFACE MOUNT, IN AREA INDICATED ON PLANS	3
TRASH AND RECYCLING RECEPTACLES	VICTOR STANLEY 1-800-368-2573	SD-42 WITH DOME LID, DECALS, AND SIDE DOOR	POWDERCOATED ALUMINUM	TRASH- SILVER RECYCLING - BLUE	PROVIDE SHOP DRAWINGS OF DECALS. INCLUDE MATCHING LINERS.	1 EACH
BICYCLE RACK		BRHS 101 CYCLE SENTRY SERIES	POWDERCOATED ALUMINUM	SILVER		4
DOG WATER FOUNTAIN	MOST DEPENDABLE FOUNTAINS 901-867-0039	300 SMSS	POWDERCOATED ALUMINUM	TO BE SELECTED BY PROJECT LANDSCAPE ARCHITECT FROM MANUFACTURER'S FULL RANGE	PROVIDE HOSE BIB CONNECTION	1
INTERPRETIVE SIGNS	ENGRAPHIX 314-781-7878	HIGH PRESSURE LAMINATE PANEL-SELF SUPPORTING WITH FRAMELESS PEDESTAL	N/A	N/A	PROVIDE SHOP DRAWINGS. SEE PLANS FOR LOCATIONS.	4
PARK RULES SIGN		ALUMINUM PANELS PRINTED PER DETAIL	N/A	N/A	CONTENT TO BE PROVIDED BY DPR. PROVIDE SHOP DRAWINGS. SIGN TO BE DOUBLE SIDED.	1
MIST ELEMENTS	RODNEY CARROLL	CUSTOM PIECE TO BE DESIGNED IN COLLABORATION WITH LANDSCAPE ARCHITECT. BRUSHED STAINLESS STEEL FINISH. ONE PIECE CONSTRUCTION. EACH ARCH TO HAVE MIN. 26 MIST EMITTERS AND LINEAR COLOR CHANGING LED ELEMENTS.				2 ARCHES
LINEAR LED LIGHT FOR PYLON	LED LINEAR 716-283-4400	VENUS TV IP67	N/A	N/A	3000K, RGB FIXTURE. RUNS VERTICALLY DOWN FOUR CORNERS OF THE PYLON	8
REMOVABLE BOLLARD	RELIANCE FOUNDRY CO 877-789-3245	R-8907 STAINLESS STEEL BOLLARD			INCLUDE REMOVABLE EMBEDDED RECIEVER WITH LID 4" SS	4
CUSTOM BENCH 1 (ADD ALTERNATE #2A) AND CUSTOM BENCH 2	VESTRE FURNISHING 617-780-4134	CUSTOM VIA BENCH	KEBONY WOOD, HOT DIP GALVANIZED POWDERCOATED STEEL FRAME	TO BE SELECTED BY PROJECT LANDSCAPE ARCHITECT FROM MANUFACTURER'S FULL RANGE	PROVIDE SHOP DRAWINGS OF BENCHES INCLUDING BENCH TOPS, FRAME, ATTACHMENTS, BENCH BACKS.	ONE CUSTOM BENCHES AND ONE ADD ALTERNATE CUSTOM BENCH
LOUNGE SEAT		BLOC SUN BENCH	KEBONY WOOD, HOT DIP GALVANIZED POWDERCOATED STEEL FRAME	TO BE SELECTED BY PROJECT LANDSCAPE ARCHITECT FROM MANUFACTURER'S FULL RANGE	ALL FURNISHING SELECTIONS TO BE FINALIZED WITH DPR PM	4
CAFE CHAIRS	VESTRE FURNISHING 617-780-4134	APRIL GO CHAIR	HOT DIP GALVANIZED POWDERCOATED STEEL FRAME	TO BE SELECTED BY PROJECT LANDSCAPE ARCHITECT FROM MANUFACTURER'S FULL RANGE		8
CAFE TABLES		MUNCH TABLE	HOT DIP GALVANIZED POWDERCOATED STEEL FRAME	TO BE SELECTED BY PROJECT LANDSCAPE ARCHITECT FROM MANUFACTURER'S FULL RANGE		3

2 NOT IN USE



3 CORKEEN PAVING (RECOMMENDED BY DPR)
1"=1'-0"



4 FURNITURE BASE IN CORKEEN (RECOMMENDED BY DPR)
1"=1'-0"

ARLINGTON COUNTY, VIRGINIA
DEPARTMENT OF ENVIRONMENTAL SERVICES

GENERAL NOTES & PROJECT SCHEDULE
ARLINGTON JUNCTION PARK-CIVIL ENGINEERING PLAN
1051 SOUTH EADS STREET
ARLINGTON COUNTY, VA

SCALE: AS SHOWN SHEET L311

1 PRODUCT SCHEDULE
NTS

1. PROVIDE MOCKUPS, SHOP DRAWINGS, PRODUCT DATA, AND FINISH SAMPLES FOR LANDSCAPE ARCHITECT'S AND COUNTY LANDSCAPE ARCHITECT'S REVIEW AND APPROVAL PRIOR TO FABRICATION/CONSTRUCTION. ALL METAL IS HOT-DIPPED GALVANIZED STEEL UNLESS OTHERWISE INDICATED.
2. ALL METAL-TO-METAL CONNECTIONS ARE FULL-LENGTH WELDS UNLESS OTHERWISE INDICATED. GRIND SMOOTH ALL WELDS, REMOVE ALL BURRS, AND PRIME ALL BARE SPOTS PRIOR TO FINISHING.
3. WELDING AND GRINDING ARE PROHIBITED FOLLOWING SHOP FINISHING.
4. REFER TO WRITTEN SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
5. NAMED PRODUCTS ARE BASIS-OF-DESIGN. ALTERNATE PRODUCTS DOCUMENTED TO MEET OR EXCEED PERFORMANCE CRITERIA (SUBSTITUTIONS) ARE PERMITTED ONLY UNDER SPECIFIC CONDITIONS. REFER TO SPECIFICATION SECTION 016000-PRODUCT REQUIREMENTS FOR SUBSTITUTION REQUIREMENTS.



DEPARTMENT OF PARKS AND RECREATION

Park Development Division
2100 Clarendon Boulevard, Suite 414
Arlington, VA 22201
Phone: 703.228.3332
Fax: 703.228.3328

ITB #23-DPR-ITBPW-450

#SWM 22-0224

Project Name and Location
ARLINGTON JUNCTION PARK

FINAL PLAN

1051 SOUTH EADS STREET
ARLINGTON, VIRGINIA

Sheet Title
GENERAL NOTES & PRODUCT SCHEDULE

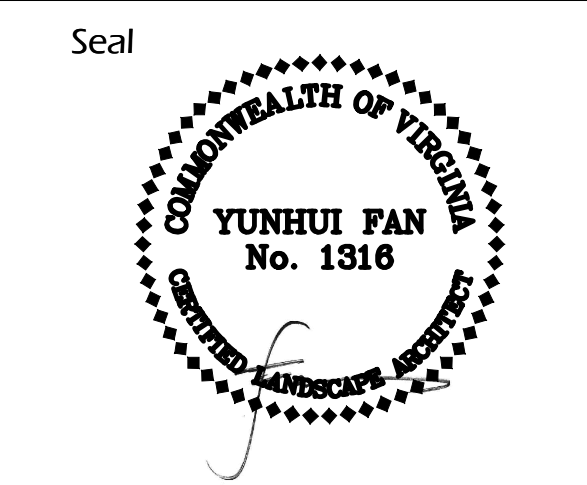
Approval _____ Date _____
Design Supervisor _____

Revisions	Date
CEP#1	7/15/2021
CEP#2	12/21/2023
BUILDING PERMIT	02/15/2023
REVISED BUILDING PERMIT	04/20/2023
CEP #4	7/20/2023

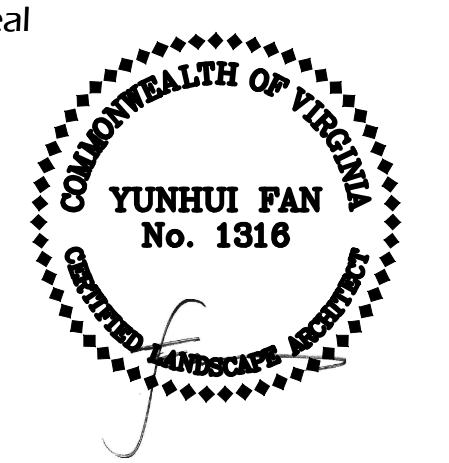
Designed: _____
Drawn: JC, SM
Checked: SM, CF

Filename: _____
Plotted: _____

Scale: AS SHOWN
Date: 04/20/2023



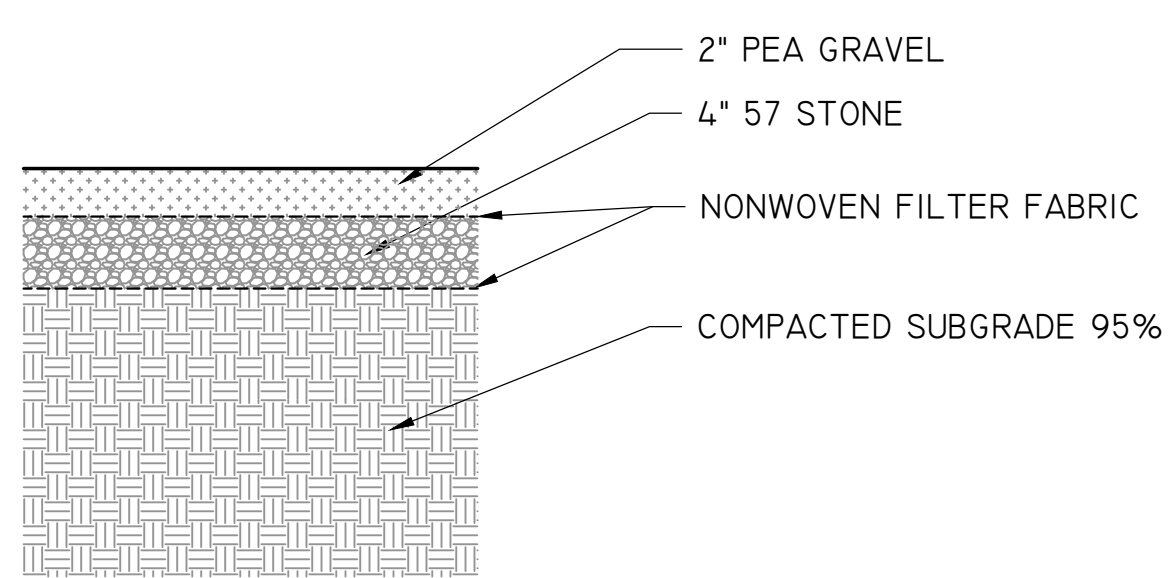
Sheet **L311**



LIGHTING						
L1 - PYLON STRUCTURE		CUSTOM DESIGN	POWDERCOATED ALUMINUM	RAL 2000 YELLOW ORANGE	PROVIDE SHOP DRAWINGS.	2
L1 - PYLON FIXTURE	BEGA US 805-684-0533	22 261	POWDERCOATED ALUMINUM	BLACK	REFER TO ELECTRICAL DRAWINGS FOR PRODUCT PART NUMBERS.	2
L2 - BOLLARD		88 060	STAINLESS STEEL	STAINLESS STEEL	PROVIDE SURFACE MOUNT ANCHORAGE ACCESSORIES. REFER TO ELECTRICAL DRAWINGS FOR PRODUCT PART NUMBERS	2
L-3 LED STRIP	QTRAN 203-367-8777	BOXA-SW	N/A	N/A	REFER TO ELECTRICAL DRAWINGS FOR PRODUCT PART NUMBERS	
L-4 PARK LIGHT POLE	BEGA US 805-684-0533	84 875	POWDERCOATED ALUMINUM	STAINLESS STEEL	REFER TO ELECTRICAL DRAWINGS FOR PRODUCT PART NUMBERS	10
L-5 POWER PEDESTAL	LANDSCAPE FORMS 800-430-6209	POWER PEDESTAL	POWDERCOATED ALUMINUM	SILVER	2 GANG 1 DUPLEX GFCI & 1 4-PORT USB OUTLET (IGIU). INSTALL PER MFR. INSTRUCTIONS	5

1. PROVIDE MOCKUPS, SHOP DRAWINGS, PRODUCT DATA, AND FINISH SAMPLES FOR LANDSCAPE ARCHITECT'S AND COUNTY LANDSCAPE ARCHITECT'S REVIEW AND APPROVAL PRIOR TO FABRICATION/CONSTRUCTION.
2. ALL METAL IS HOT-DIPPED GALVANIZED STEEL UNLESS OTHERWISE INDICATED.
3. ALL METAL-TO-METAL CONNECTIONS ARE FULL-LENGTH WELDS UNLESS OTHERWISE INDICATED.
4. GRIND SMOOTH ALL WELDS, REMOVE ALL BURRS, AND PRIME ALL BARE SPOTS PRIOR TO FINISHING.
5. WELDING AND GRINDING ARE PROHIBITED FOLLOWING SHOP FINISHING.
6. REFER TO WRITTEN SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
7. NAMED PRODUCTS ARE BASIS-OF-DESIGN. ALTERNATE PRODUCTS DOCUMENTED TO MEET OR EXCEED PERFORMANCE CRITERIA (SUBSTITUTIONS) ARE PERMITTED ONLY UNDER SPECIFIC CONDITIONS. REFER TO SPECIFICATION SECTION 016000-PRODUCT REQUIREMENTS FOR SUBSTITUTION REQUIREMENTS.

2 PRODUCT SCHEDULE

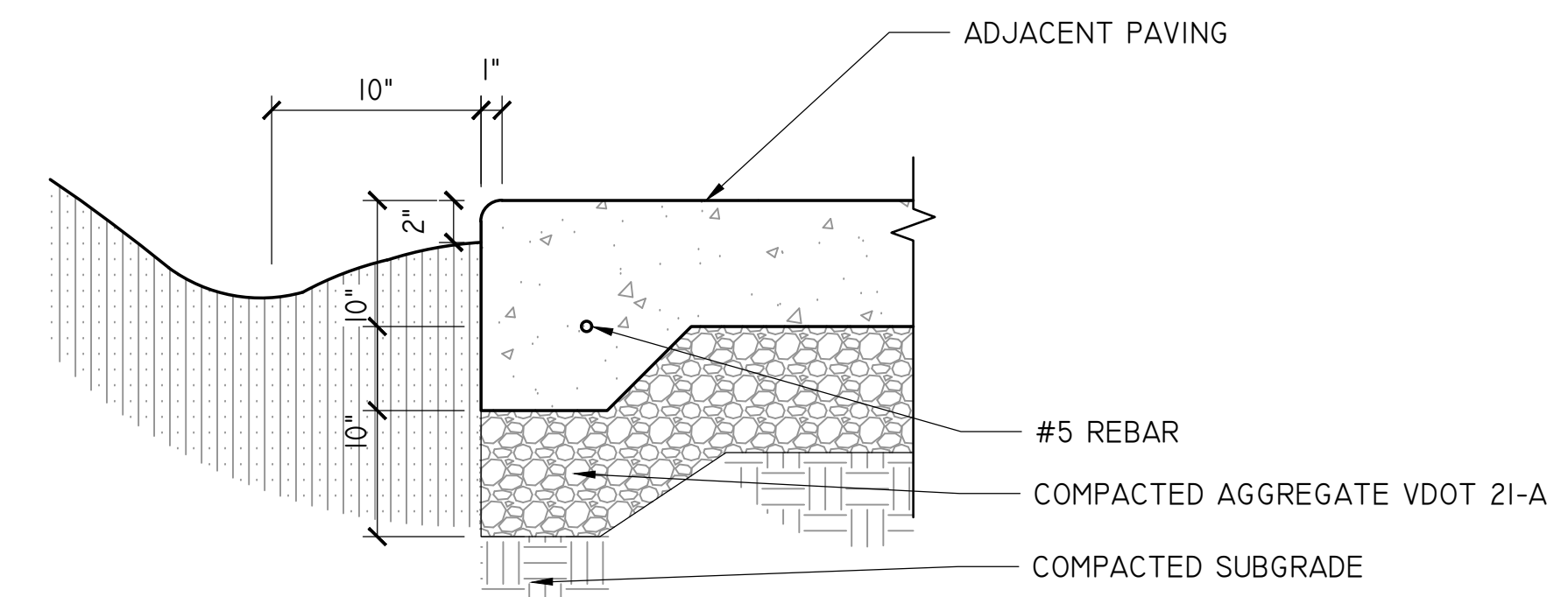
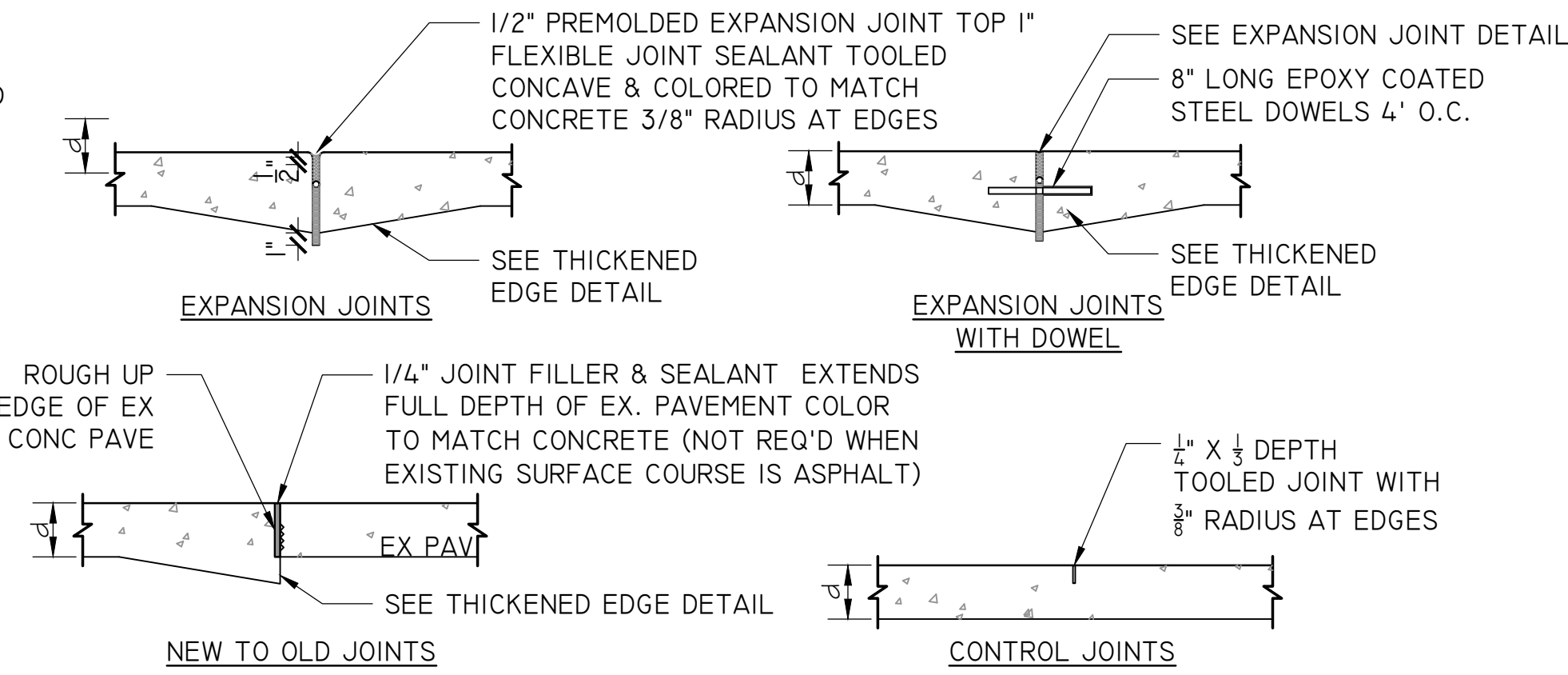
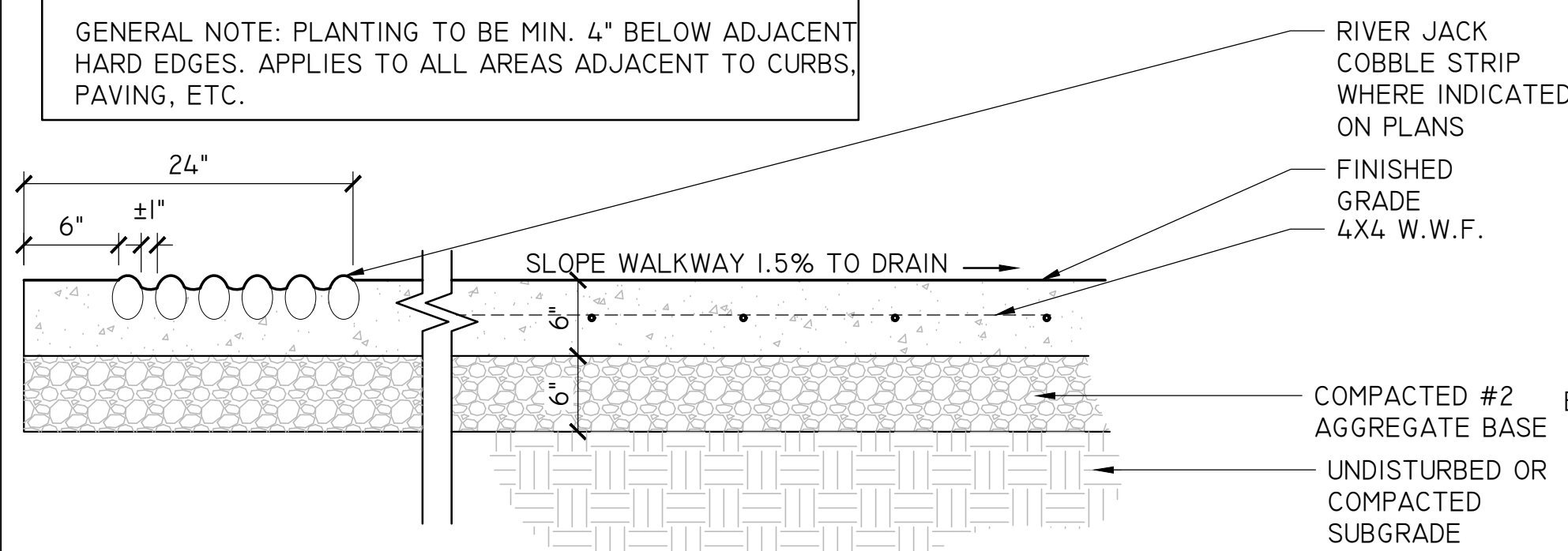


3 UNSTABILIZED AGGREGATE PAVING

1 NOTES

ARLINGTON COUNTY, VIRGINIA DEPARTMENT OF ENVIRONMENTAL SERVICES		
GENERAL NOTES & PROJECT SCHEDULE ARLINGTON JUNCTION PARK-CIVIL ENGINEERING PLAN 1051 SOUTH EADS STREET ARLINGTON COUNTY, VA		
SCALE: AS SHOWN	SHEET L311A	

GENERAL NOTE: PLANTING TO BE MIN. 4" BELOW ADJACENT HARD EDGES. APPLIES TO ALL AREAS ADJACENT TO CURBS, PAVING, ETC.

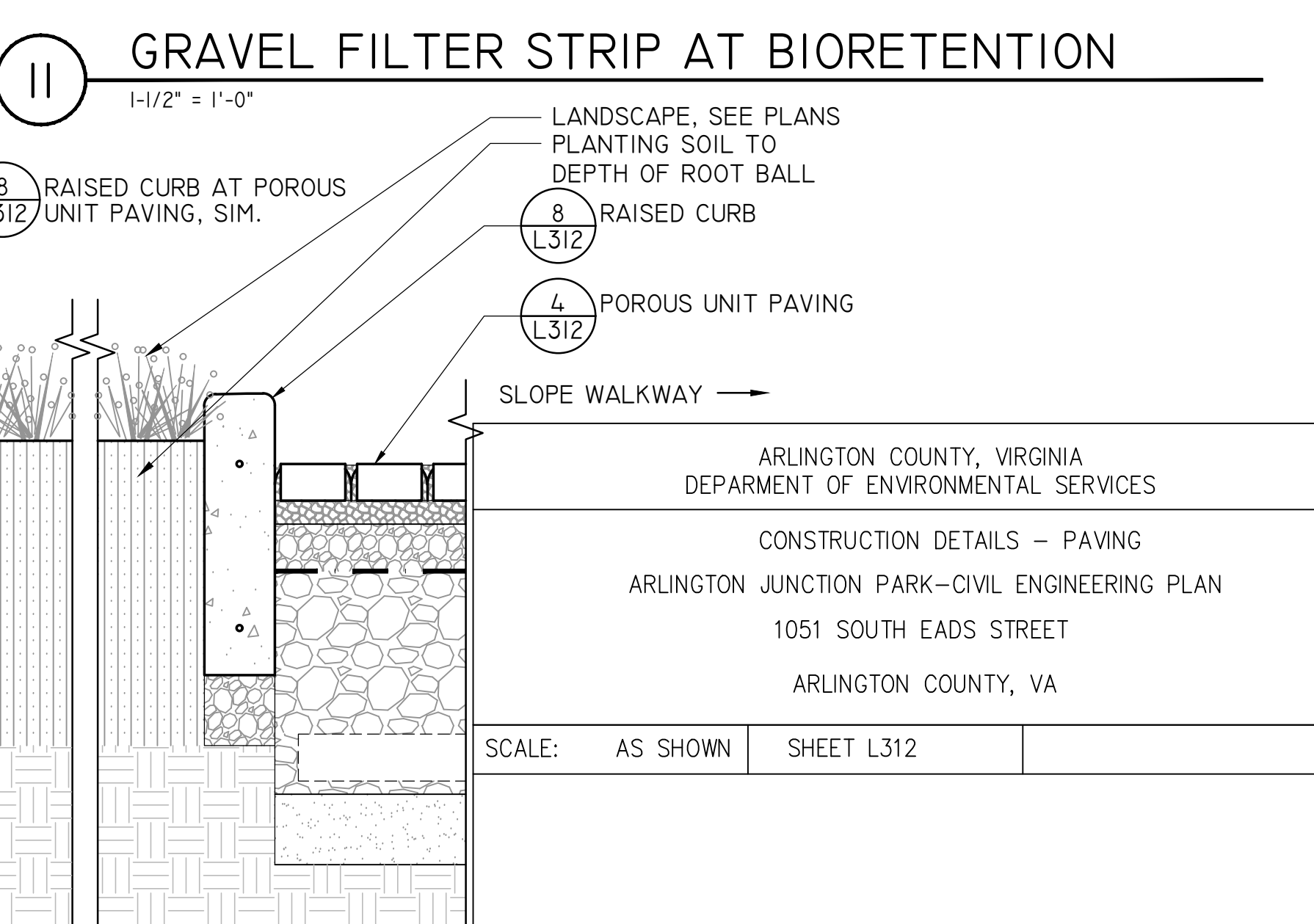
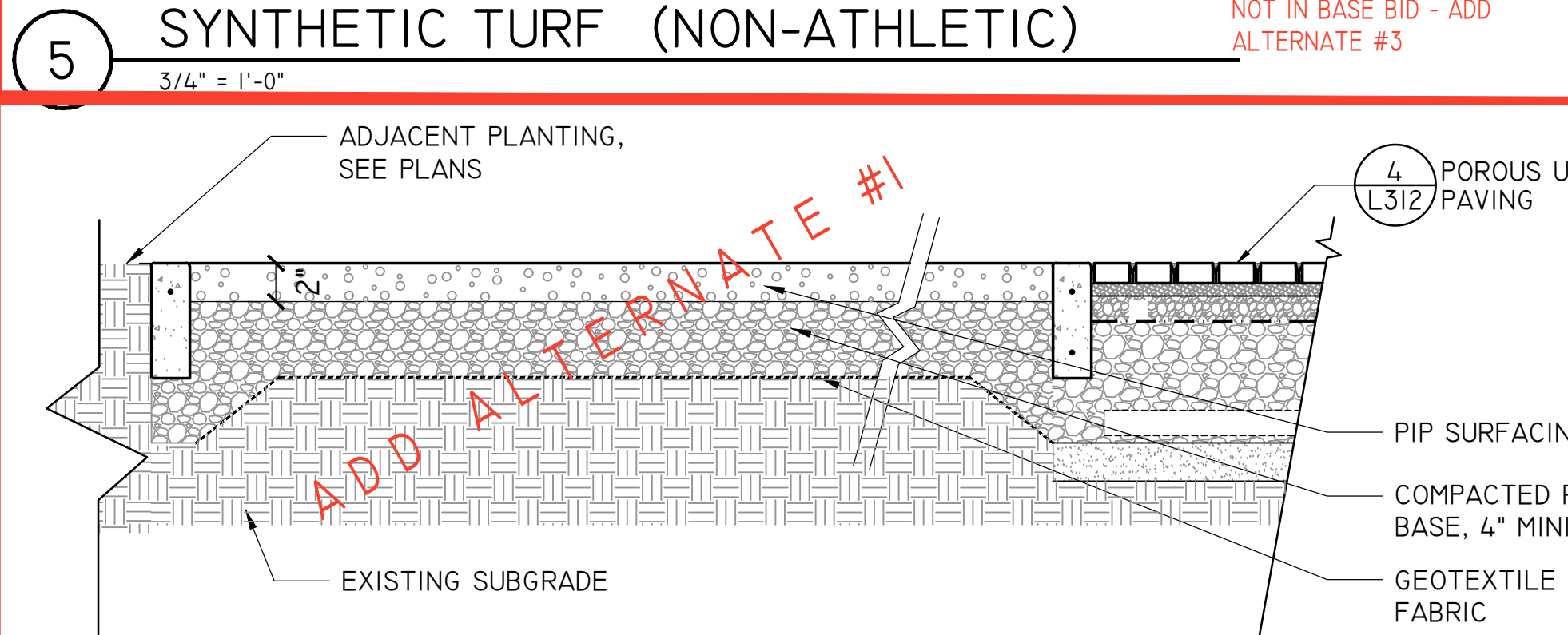
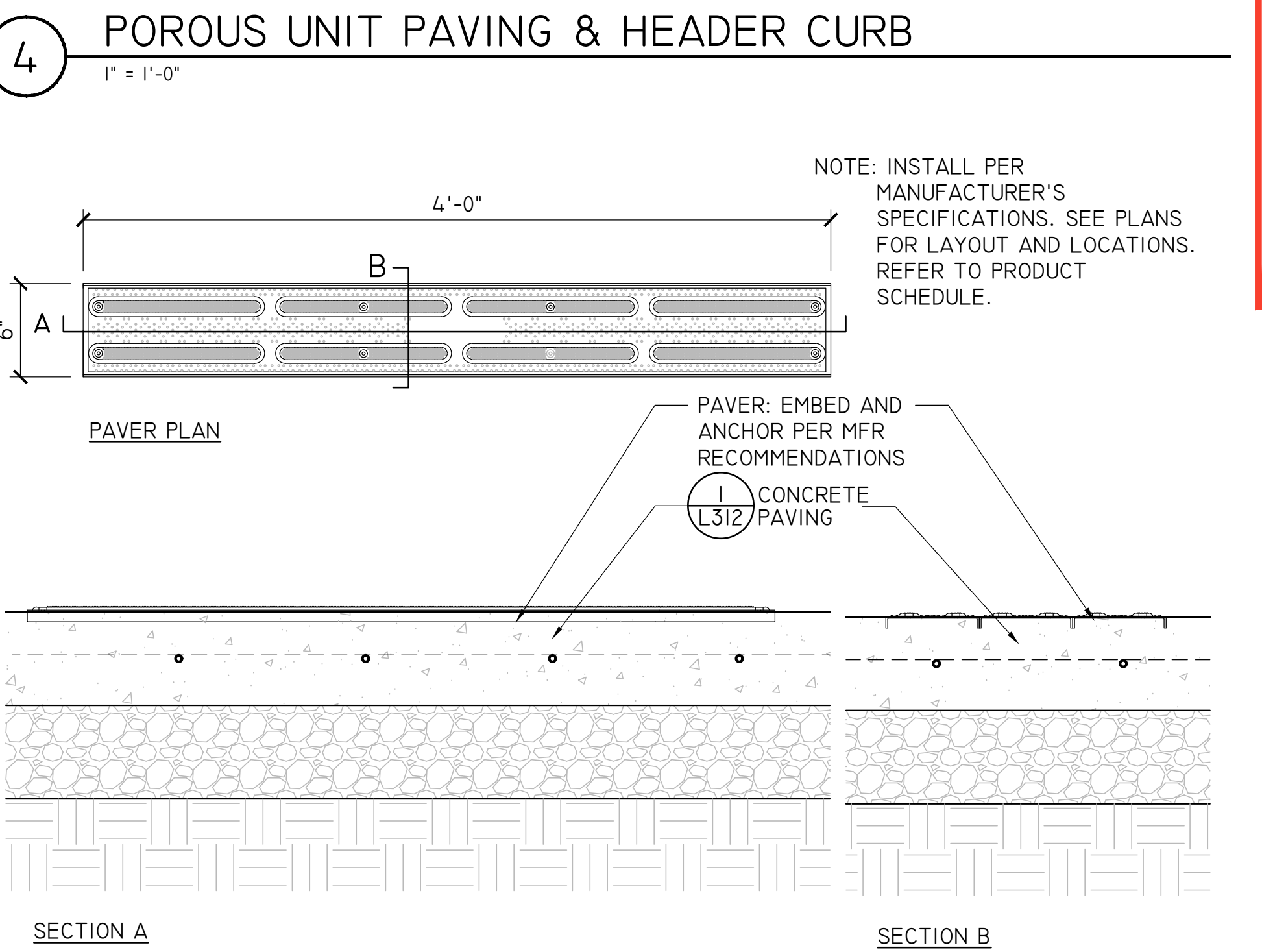
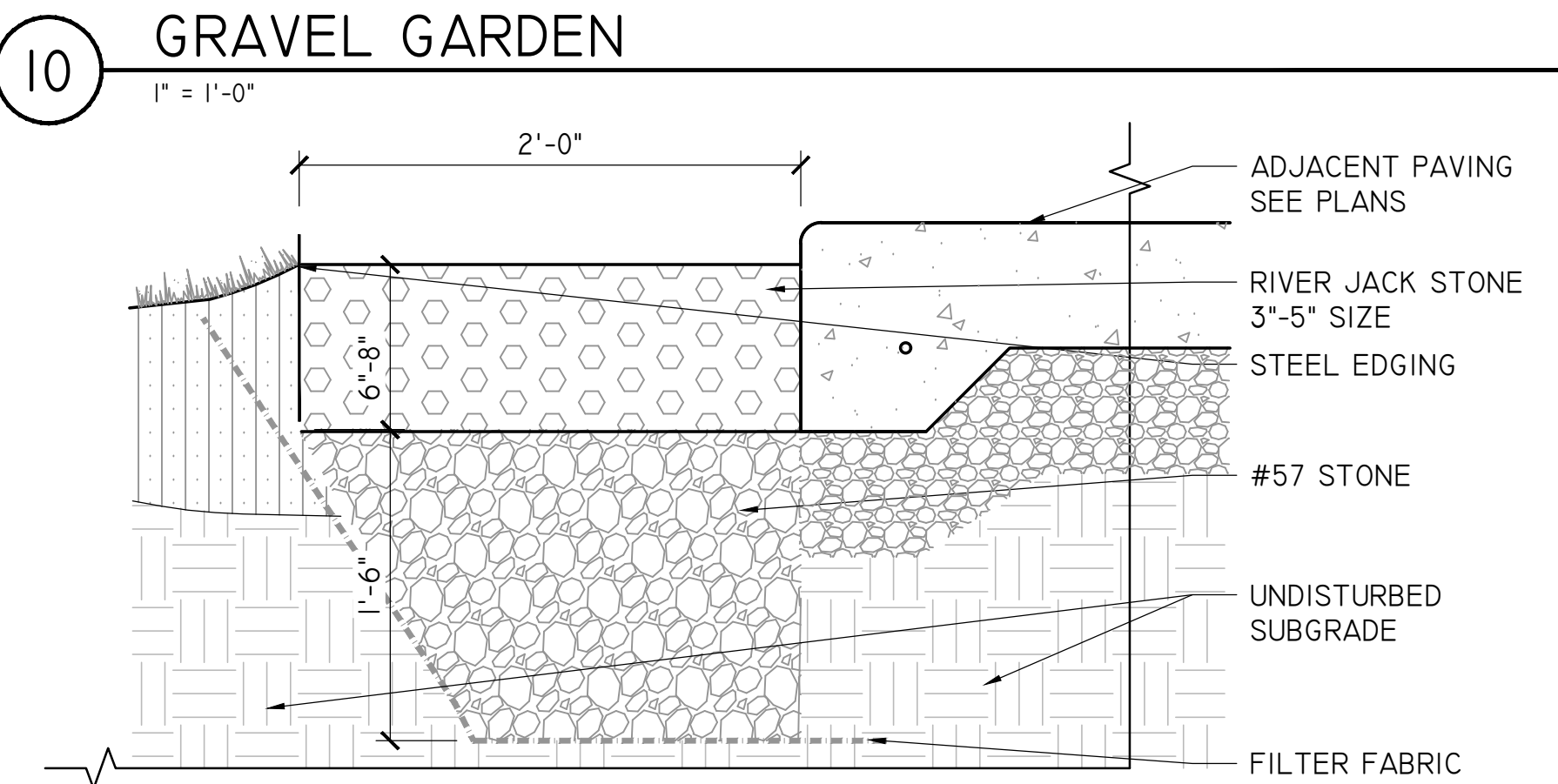
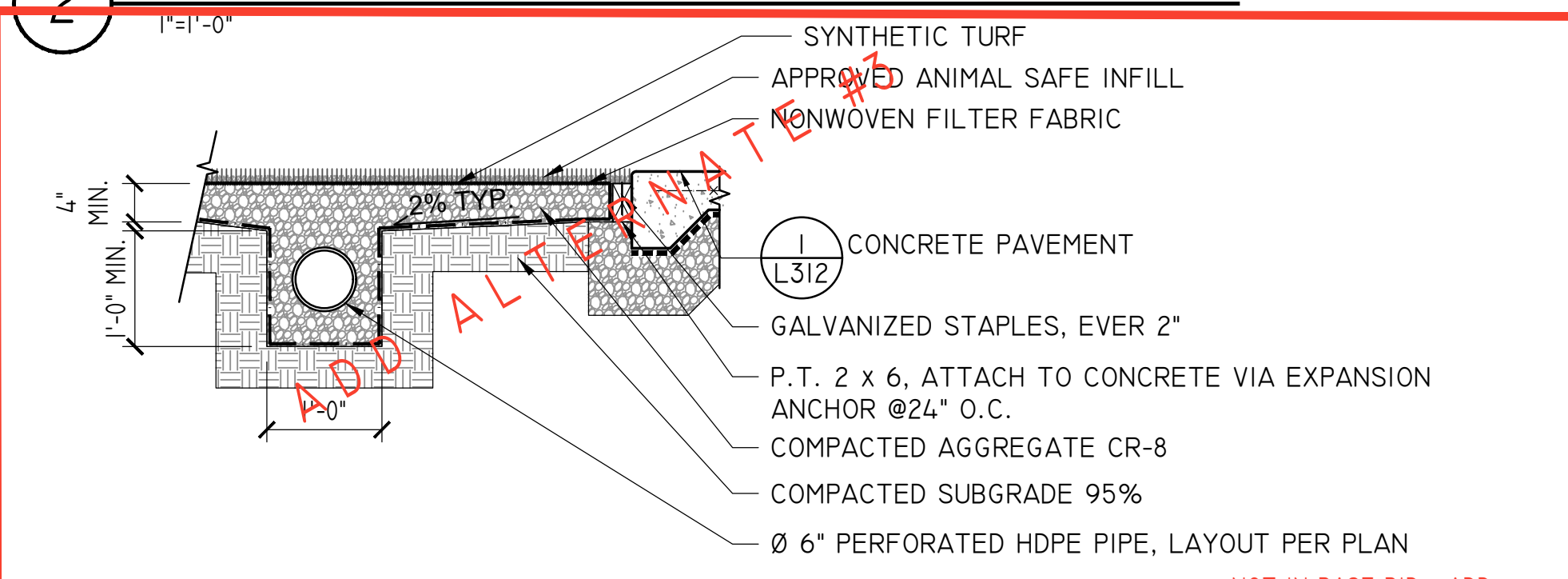
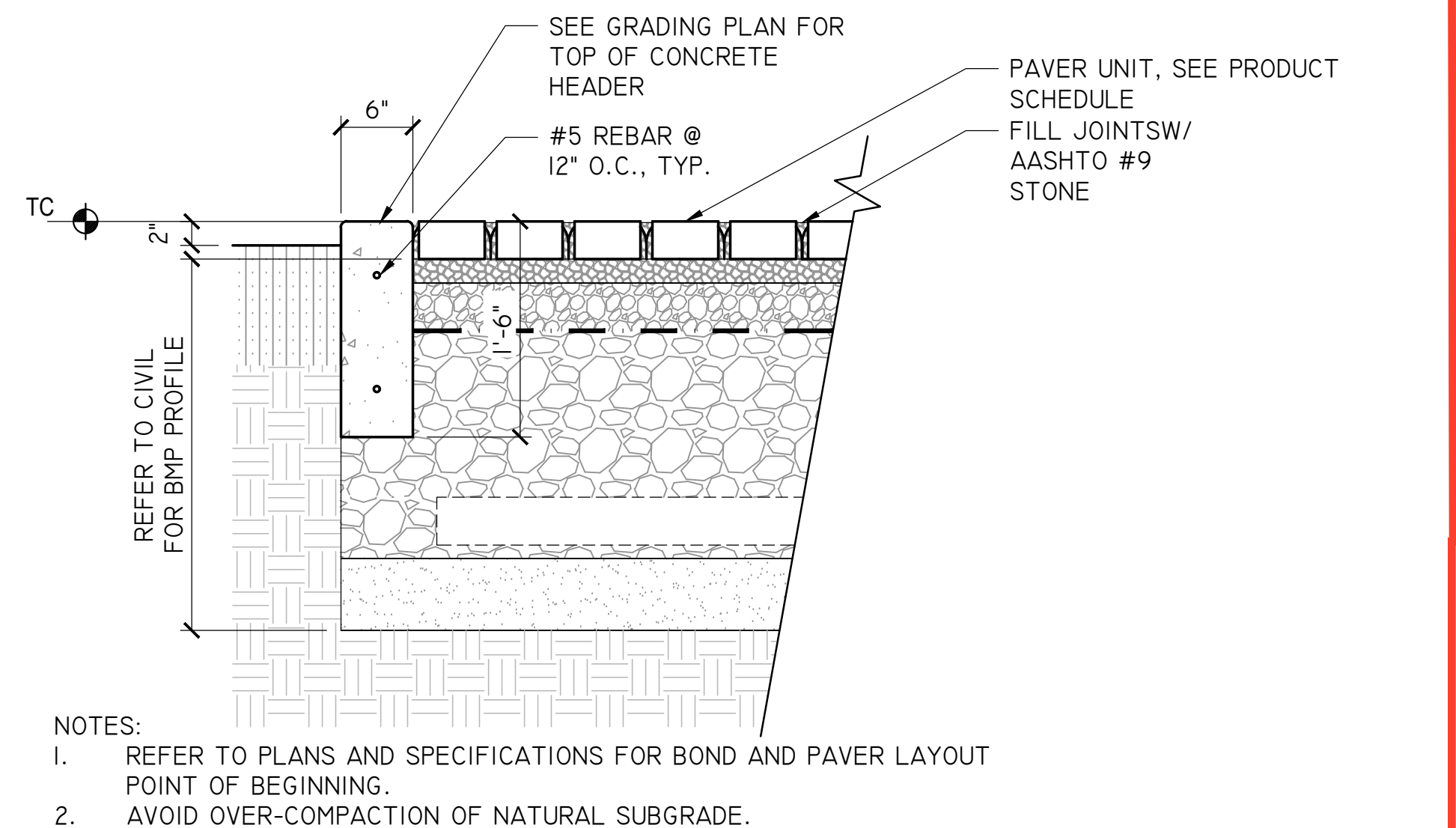
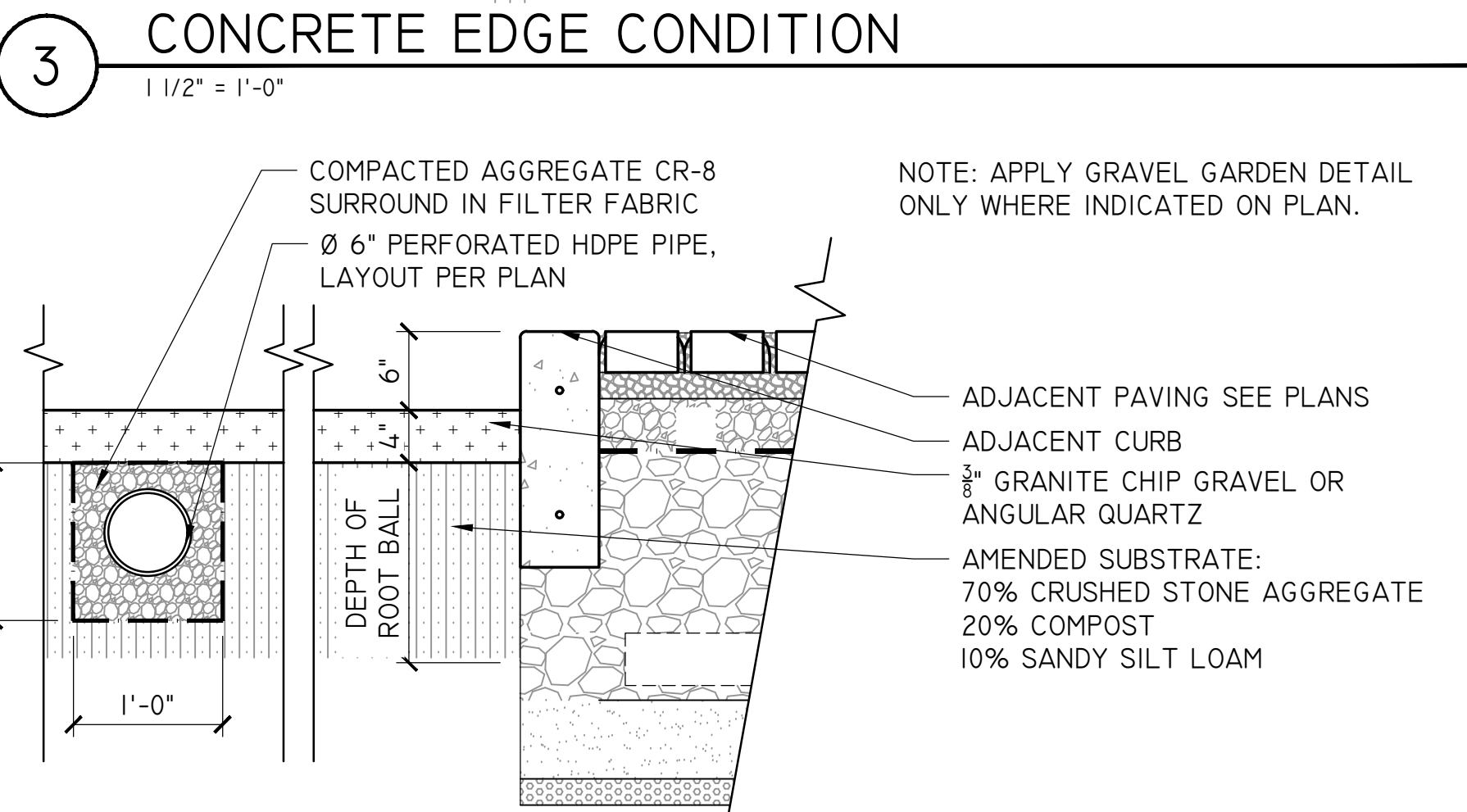


1 CONCRETE PAVEMENT - VEHICULAR (6" THICKNESS)
1" = 1'-0"

NOTES:
1. PROVIDE EXPANSION AND CONTROL JOINTS AS SHOWN ON THE PLANS, OR EXPANSION JOINTS EVERY 20' O.C. AND CONTROL JOINTS EVERY 5' O.C. IF NOT SHOWN.
2. ALL EXPANSION JOINTS SHALL BE FINISHED WITH SEALANT. COLOR TO MATCH COLOR OF CONCRETE PAVEMENT.
3. FINISH IN ACCORDANCE WITH VDOT 404.07, SIDEWALK FINISH, WITH CLEAR CURING COMPOUND.
4. DISTURBED LAWN AREAS ADJACENT TO CONCRETE PAVEMENT SHALL BE BACKFILLED AND SEEDS AS DESCRIBED IN SPECIFICATIONS.
5. REFER TO CONCRETE DETAILS, THIS SHEET FOR ADDITIONAL CONDITIONS AND REQUIREMENTS, AS NEEDED.

2 CONCRETE PAVING JOINT DETAILS
1" = 1'-0"

NOTES:
1. TRANSVERSE JOINT SPACE SHALL NOT EXCEED SPACING INDICATED IN PLANS. THE AREA OF THE PAVEMENT PANEL SHALL NOT EXCEED 225 SQUARE FEET.
2. JOINT OFFSETS AT RADIUS POINTS SHOULD BE AT LEAST 1'-6" LONG.
3. JOINT INTERSECTION ANGLES OF LESS THAN 60 DEGREES SHALL NOT BE USED.
4. WHEN A JOINT IS CLOSER THAN 1'-0" TO A CASTING, THEN A MINOR ADJUSTMENT IN THE JOINT LOCATION SHOULD BE MADE BY SKEWING OR SHIFTING THE JOINT ALIGNMENT TO MEET THE CASTING AT 90° OR NORMAL TO THE CASTING.



7 LONGITUDINAL DIRECTIONAL PAVERS
1" = 1'-0"

6 FLEXI-PAVE - POROUS FLEXIBLE PAVING
1/2" = 1'-0"

8 RAISED CURB
1'-1/2" = 1'-0"

9 PLANTER CURB
1" = 1'-0"



DEPARTMENT OF PARKS AND RECREATION
Park Development Division
2100 Clarendon Boulevard, Suite 414
Arlington, VA 22201
Phone: 703.228.3332
Fax: 703.228.3328

ITB #23-DPR-ITBPW-450
#SWM 22-0224

Project Name and Location
ARLINGTON JUNCTION PARK

FINAL PLAN

1051 SOUTH EADS STREET
ARLINGTON, VIRGINIA

Sheet Title
CONSTRUCTION DETAILS - PAVING

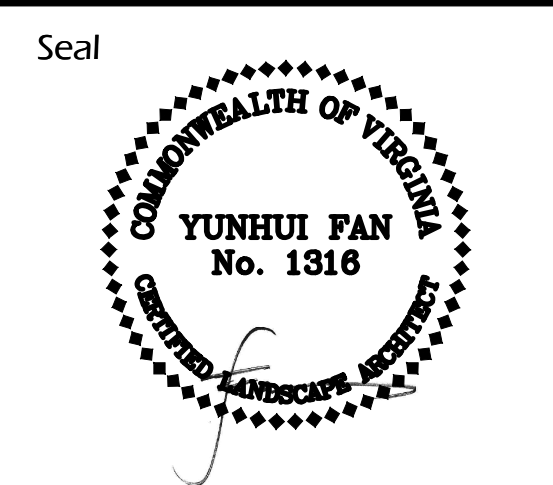
Approval _____ Date _____
Design Supervisor _____

Revisions	Date
CEP#1	7/15/2021
CEP#2	12/21/2023
BUILDING PERMIT	02/15/2023
REVISED BUILDING PERMIT	04/20/2023
CEP #4	7/20/2023

Designed: _____
Drawn: JC, SM
Checked: SM, CF

Filename: _____
Plotted: _____

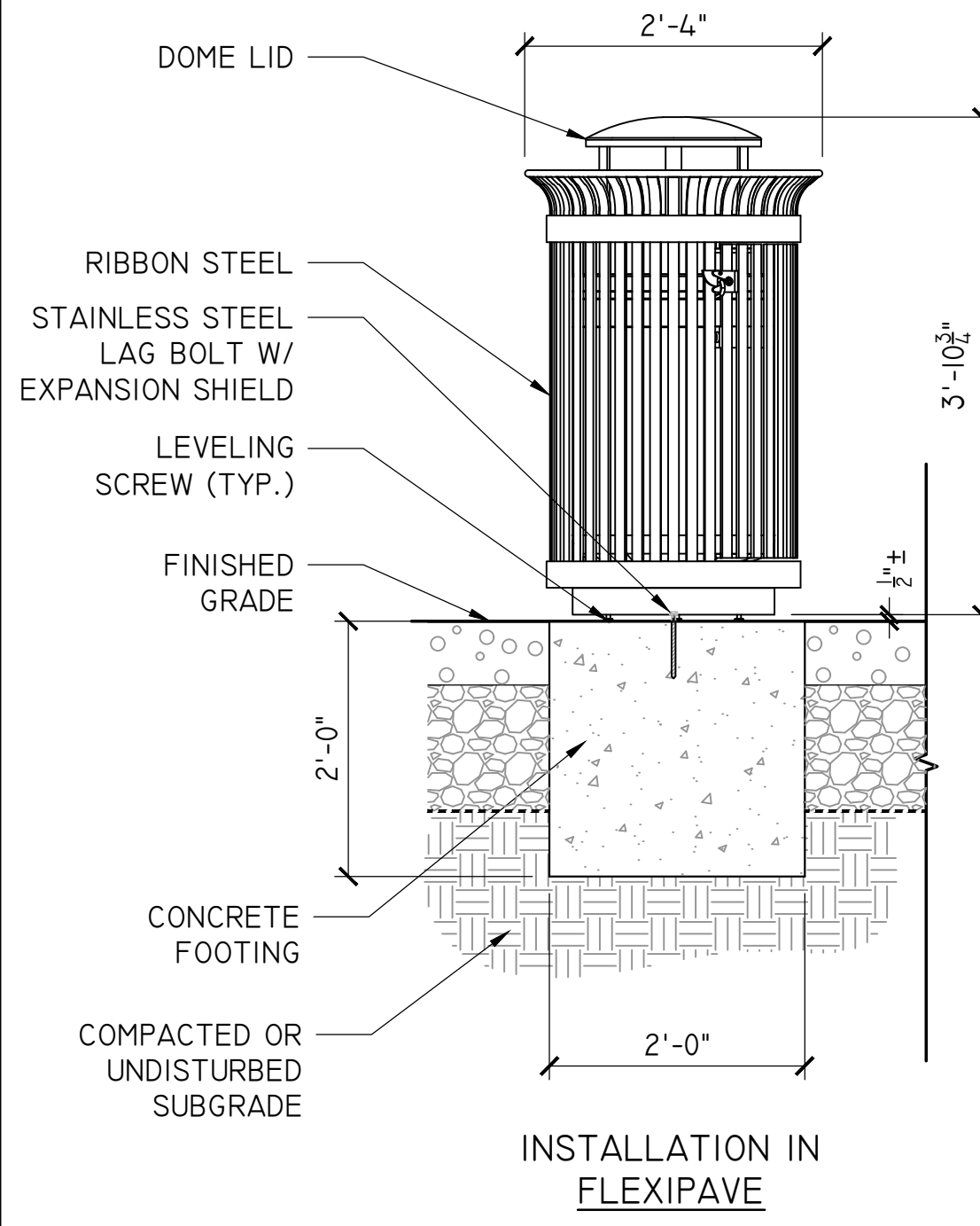
Scale: AS SHOWN
Date: 04/20/2023



Sheet **L312**

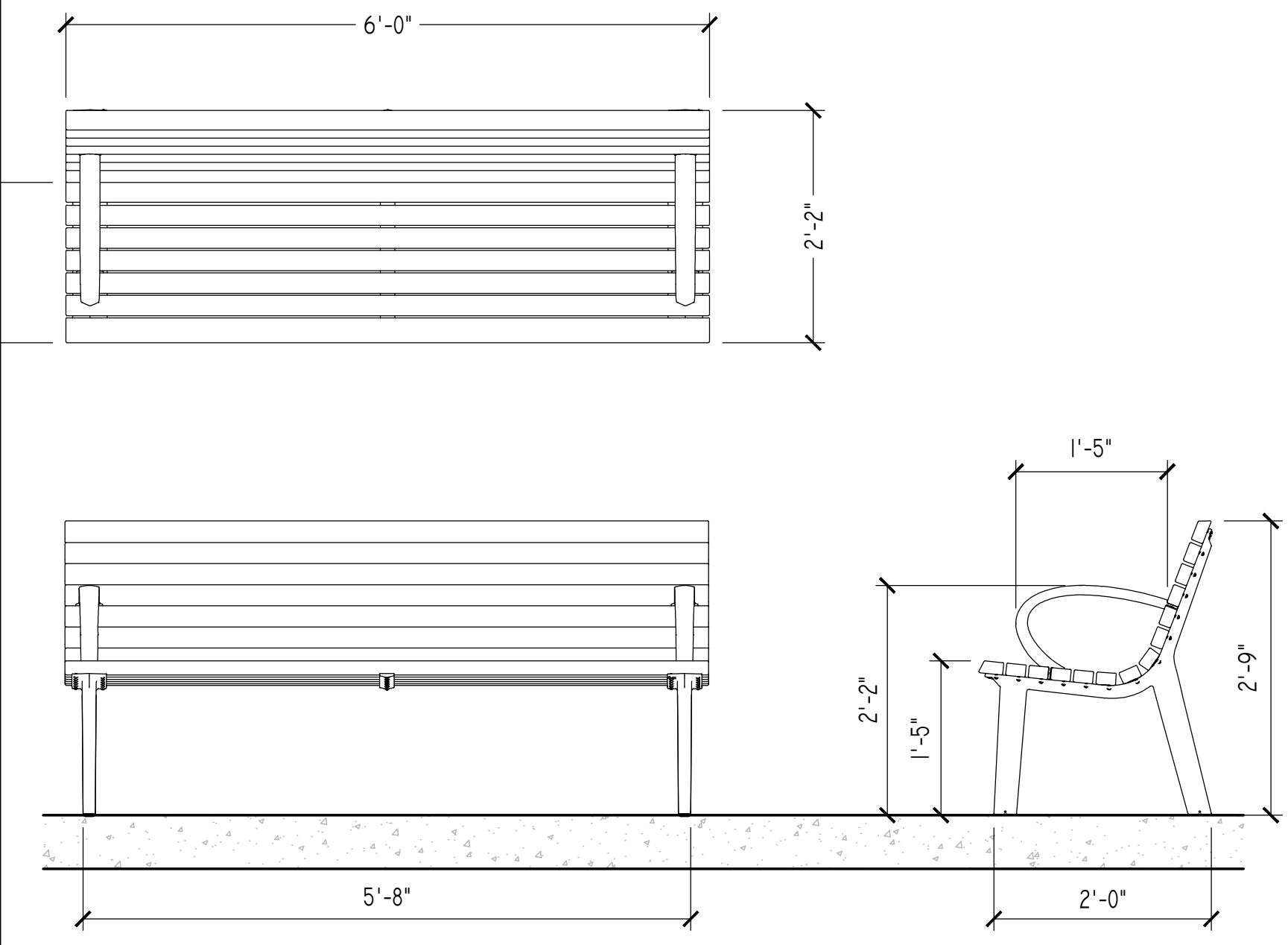
ARLINGTON COUNTY, VIRGINIA
DEPARTMENT OF ENVIRONMENTAL SERVICES
CONSTRUCTION DETAILS - PAVING
ARLINGTON JUNCTION PARK-CIVIL ENGINEERING PLAN
1051 SOUTH EADS STREET
ARLINGTON COUNTY, VA

SCALE: AS SHOWN SHEET L312



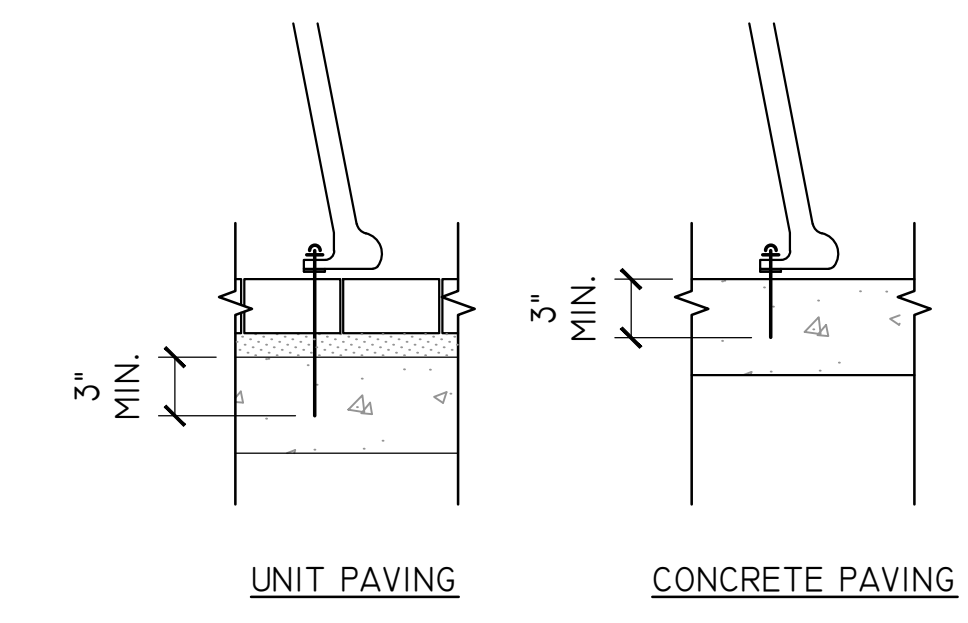
- NOTES:**
1. SEE PLANS FOR EXACT INSTALLATION CONDITIONS.
 2. ANCHOR TO GROUND PER MANUFACTURER'S RECOMMENDATIONS.
 3. SEE APPROPRIATE DETAILS FOR CONCRETE PAVING AND/OR ASPHALT PAVING.
 4. METAL COLOR SHALL BE PER PLANS AND SPECIFICATIONS.
 5. LATCHING SIDE DOOR TO BE LOCATED TO FRONT OF BIN SO THAT THE DOOR OPENS ALL THE WAY.

1 TRASH RECEPTACLE
3/4"=1'



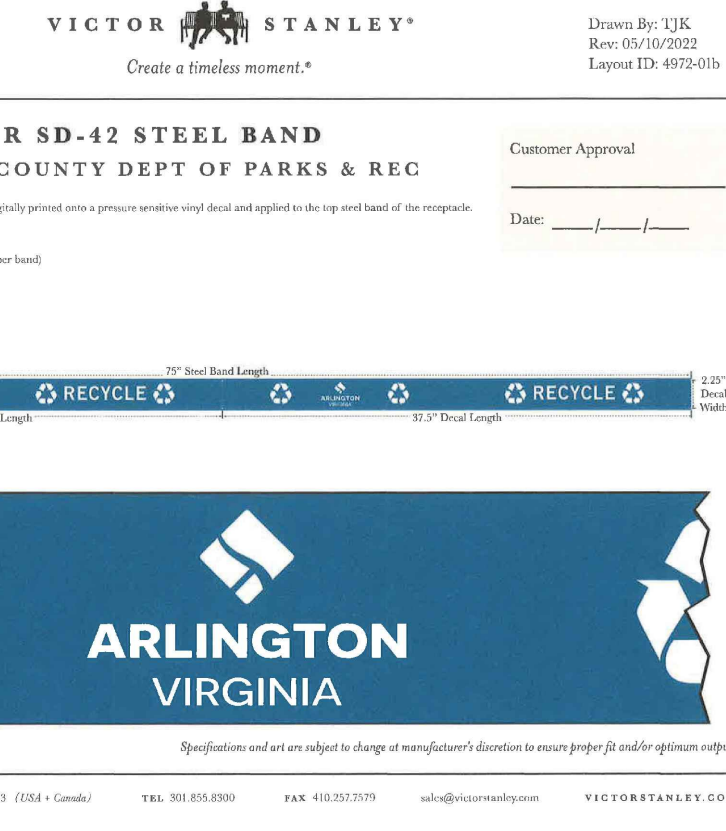
- NOTES:**
1. REFER TO PRODUCT SCHEDULE.
 2. SURFACE MOUNT PER MANUFACTURER'S WRITTEN SPECIFICATIONS.

3 BENCH
3/4"=1'



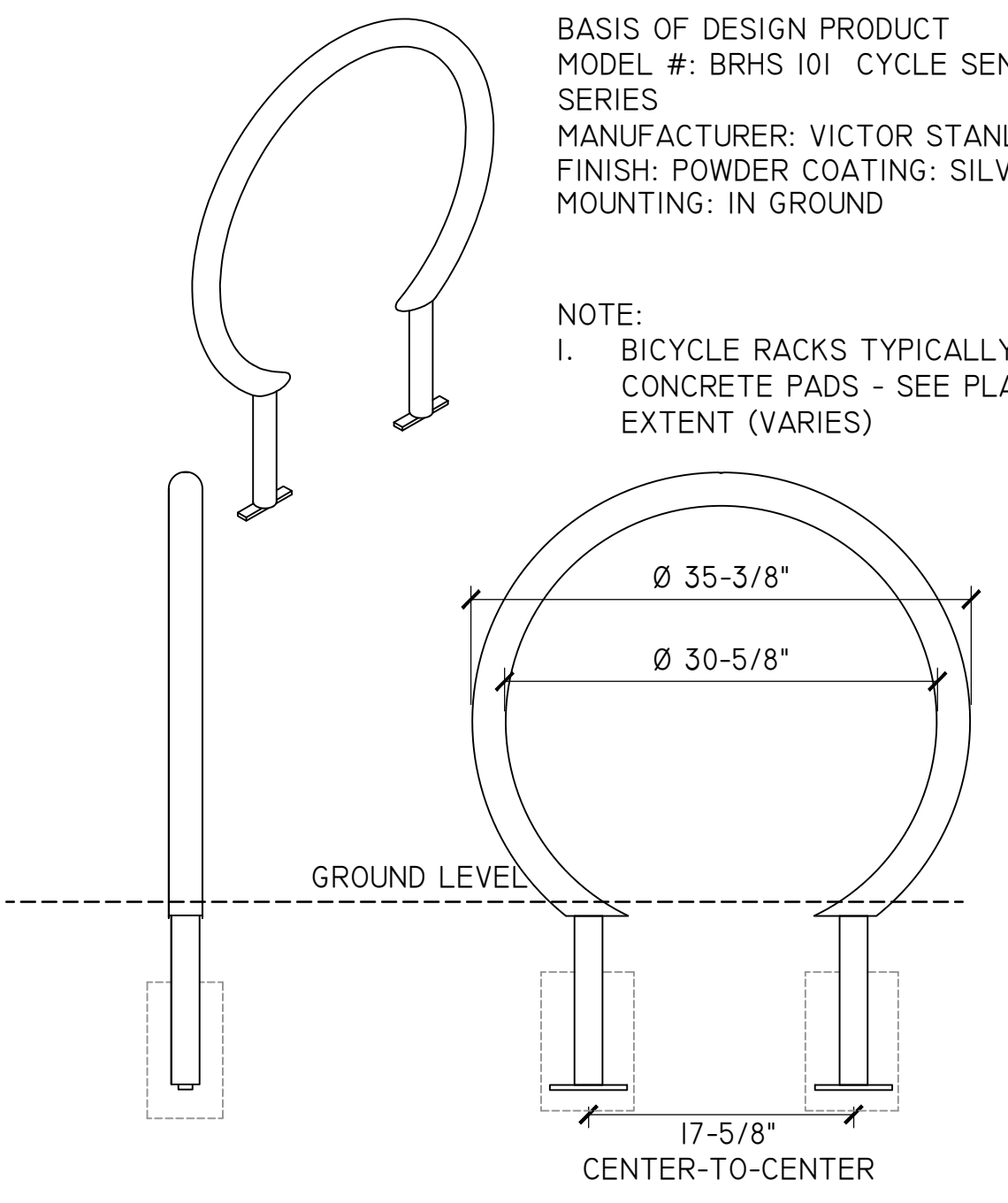
- NOTE:**
1. ALL HARDWARE TO BE GALVANIZED OR STAINLESS STEEL. PAINT TO MATCH LEG.
 2. PROVIDE (1) ANCHOR & WASHER PER ANCHOR HOLE, AS REQUIRED BY BENCH MFR; DROP-IN ANCHOR OR SLEEVE ANCHOR W/ ACORN NUT.

4 BENCH ANCHOR
1-1/2"=1'-0"

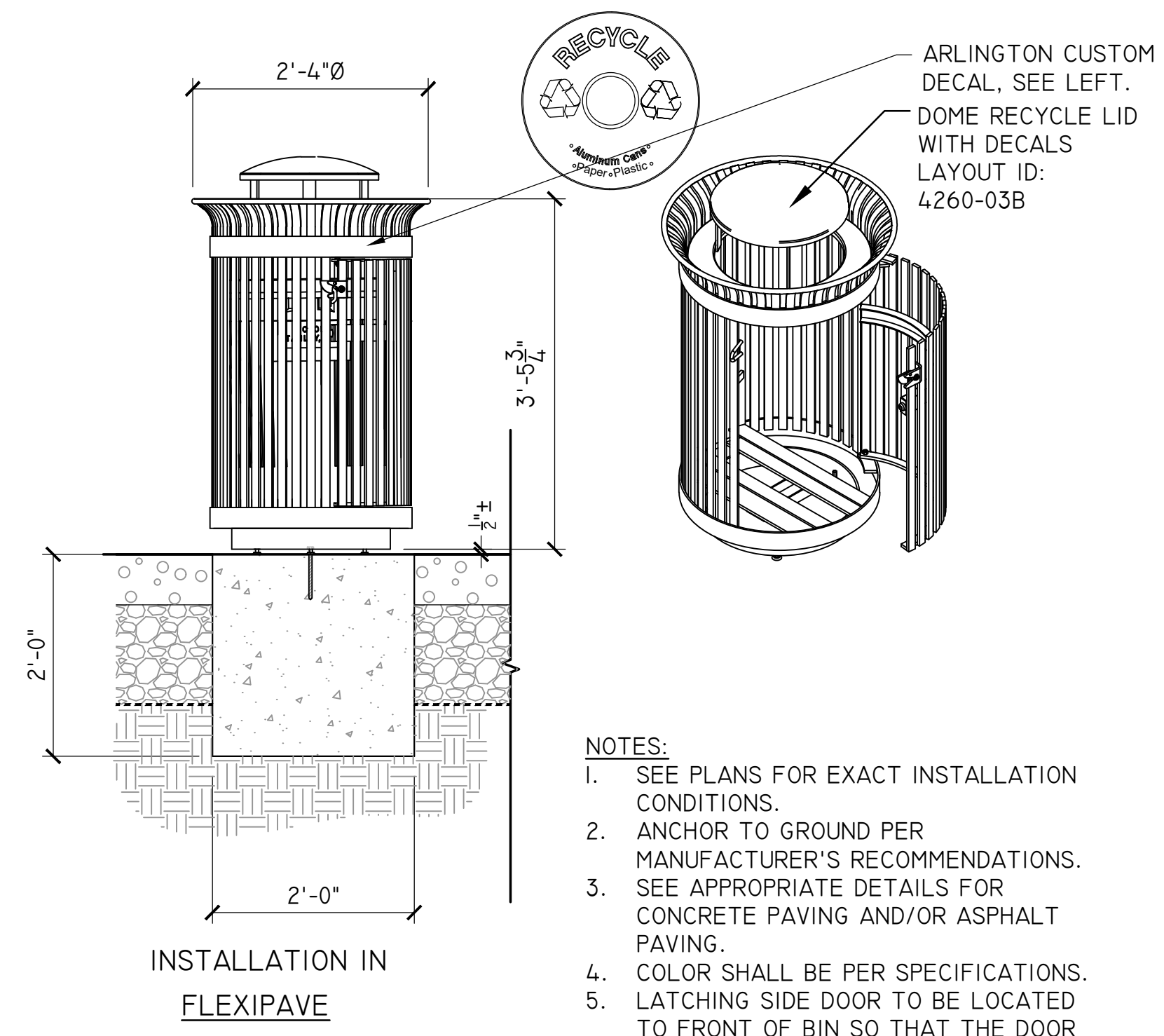


ARLINGTON CUSTOM DECAL

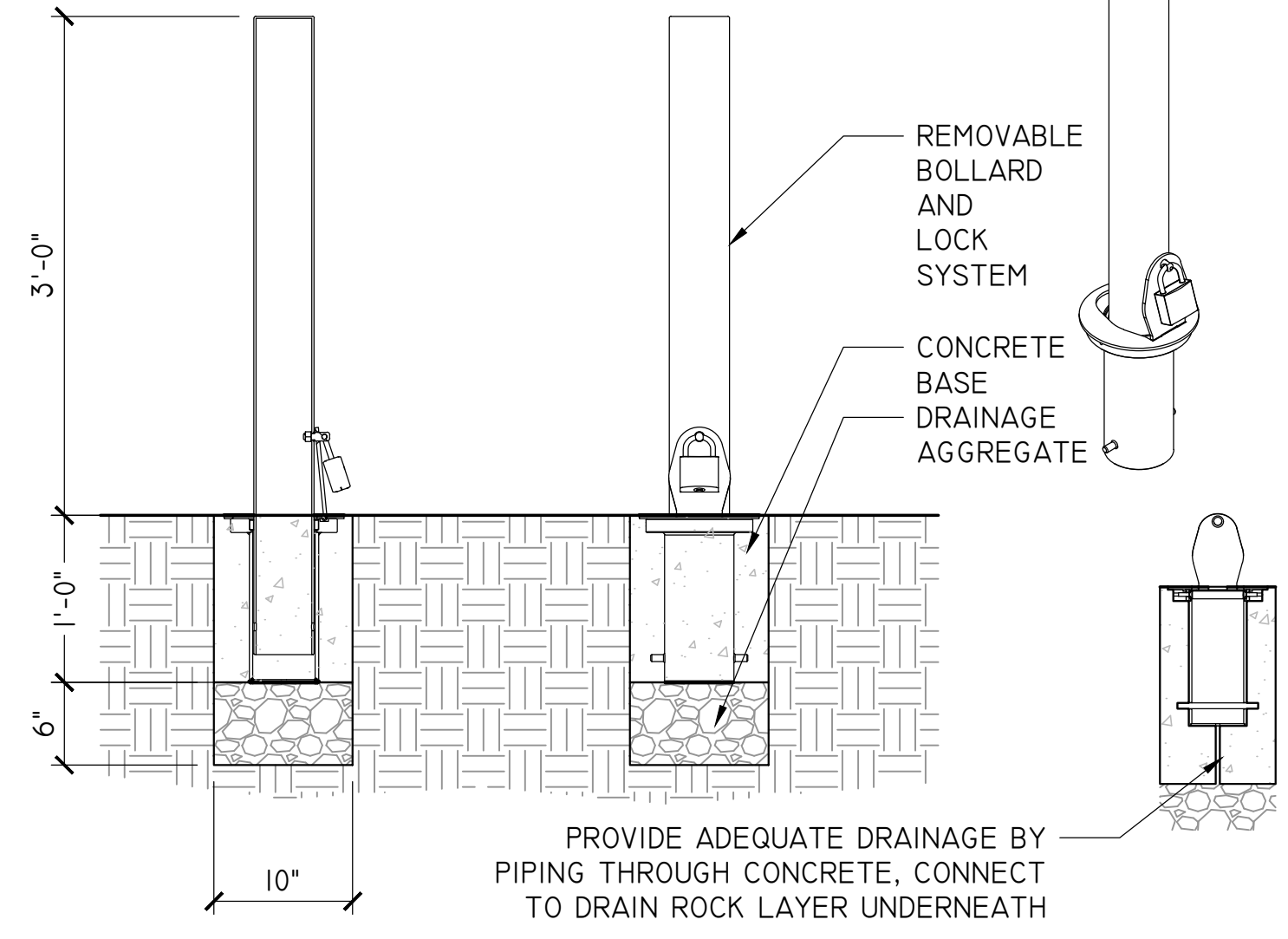
2 RECYCLING RECEPTACLE
3/4"=1'



5 BICYCLE RACK
1"=1'-0"



INSTALLATION IN FLEXIPAVE



6 REMOVABLE BOLLARD
1"=1'-0"

ARLINGTON COUNTY, VIRGINIA
DEPARTMENT OF ENVIRONMENTAL SERVICES

CONSTRUCTION DETAILS - SITE FURNISHING
ARLINGTON JUNCTION PARK-CIVIL ENGINEERING PLAN
1051 SOUTH EADS STREET
ARLINGTON COUNTY, VA

SCALE: AS SHOWN SHEET L313



DEPARTMENT OF PARKS AND RECREATION
Park Development Division
2100 Clarendon Boulevard, Suite 414
Arlington, VA 22201
Phone: 703.228.3332
Fax: 703.228.3328

ITB #23-DPR-ITBPW-450

#SWM 22-0224

Project Name and Location
ARLINGTON JUNCTION PARK

FINAL PLAN

1051 SOUTH EADS STREET
ARLINGTON, VIRGINIA

Sheet Title
CONSTRUCTION DETAILS - SITE FURNISHING

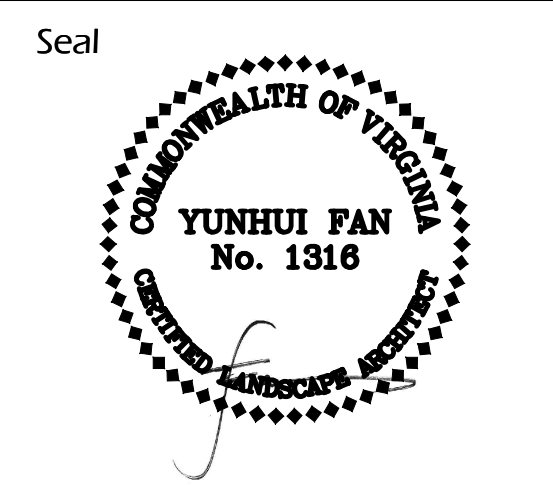
Approval _____ Date _____
Design Supervisor _____

Revisions	Date
CEP#1	7/15/2021
CEP#2	12/21/2023
BUILDING PERMIT	02/15/2023
REVISED BUILDING PERMIT	04/20/2023
CEP #4	7/20/2023

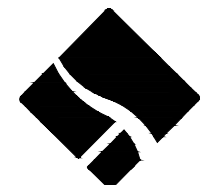
Designed: _____
Drawn: JC, SM
Checked: SM, CF

Filename: _____
Plotted: _____

Scale: AS SHOWN
Date: 04/20/2023



Sheet **L313**



ARLINGTON VIRGINIA

DEPARTMENT OF PARKS AND RECREATION

Park Development Division
2100 Clarendon Boulevard, Suite 414
Arlington, VA 22201
Phone: 703.228.3332
Fax: 703.228.3328

ITB #23-DPR-ITBPW-450

#SWM 22-0224

Project Name and Location
ARLINGTON JUNCTION PARK

FINAL PLAN

1051 SOUTH EADS STREET
ARLINGTON, VIRGINIA

Sheet Title

CONSTRUCTION DETAILS - CUSTOM BENCHES ADD ALTERNATES 2A&2B

Approval _____ Date _____
Design Supervisor _____

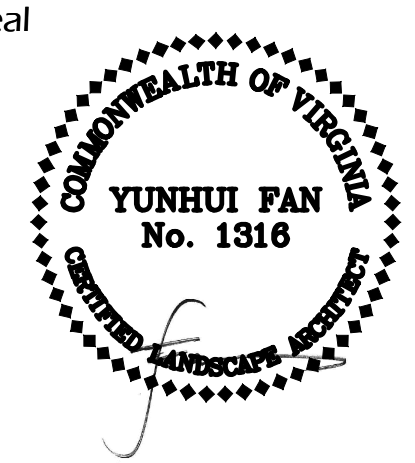
Revisions	Date
CEP#1	7/15/2021
CEP#2	12/21/2023
BUILDING PERMIT	02/15/2023
REVISED BUILDING PERMIT	04/20/2023
CEP #4	7/20/2023

Designed: _____
Drawn: JC, SM
Checked: SM, CF

Filename: _____
Plotted: _____

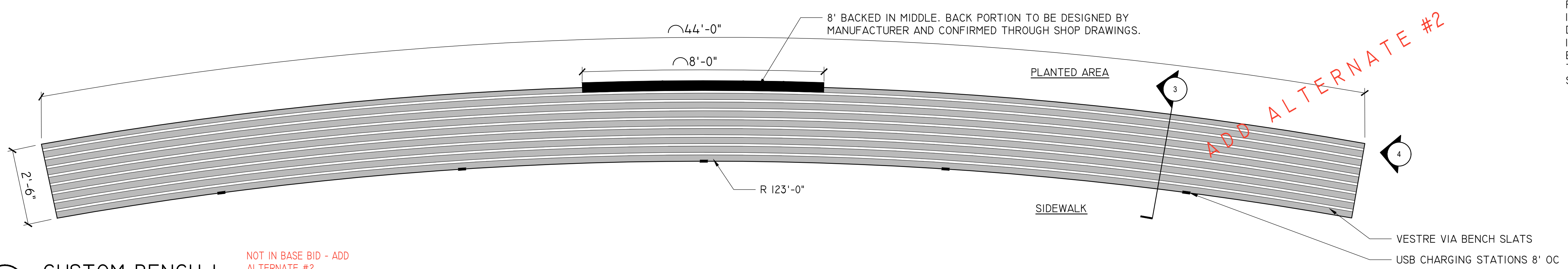
Scale: AS SHOWN
Date: 04/20/2023

Seal

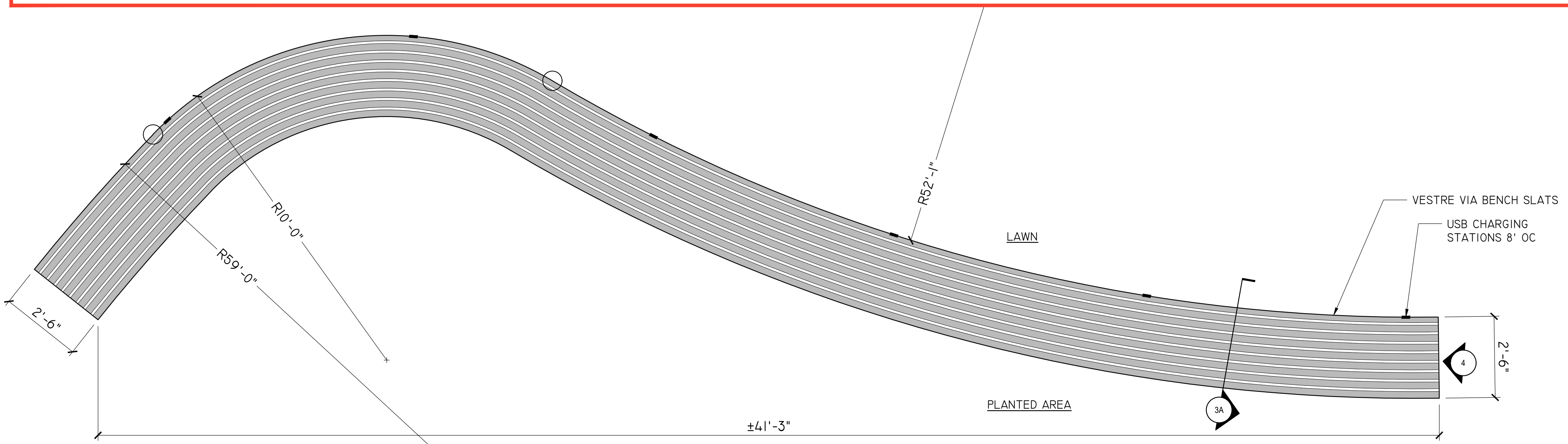


Sheet **L314**

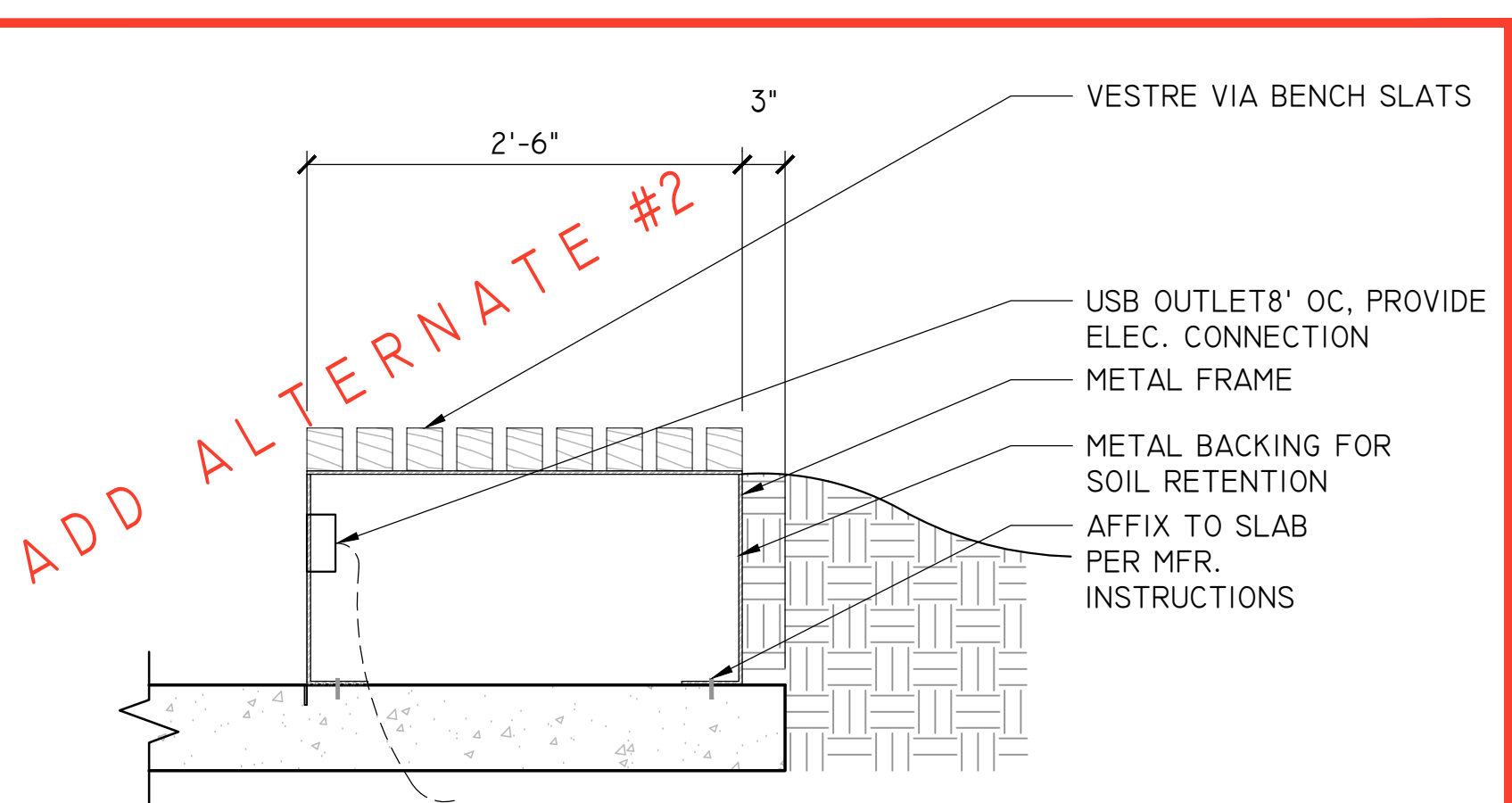
NOTE:
1. CUSTOM BENCH DETAILS ARE FOR ILLUSTRATIVE PURPOSES AND DESIGN INTENT ONLY. FINAL DETAILS FOR BENCH INCLUDING SLATS, FRAME, BENCH BACK, CONNECTIONS TO BE APPROVED THROUGH SHOP DRAWINGS.



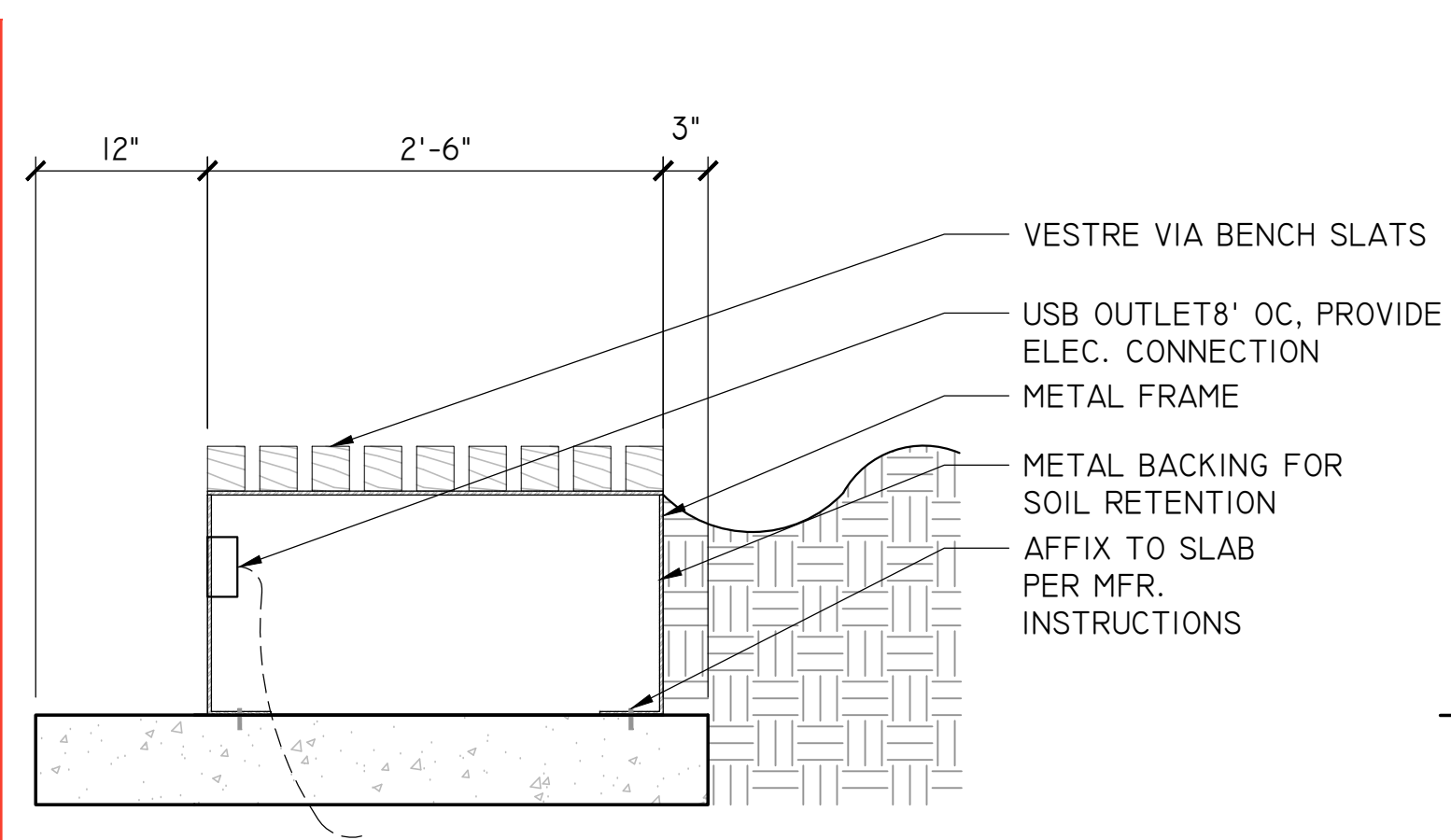
1 CUSTOM BENCH 1
1/2"=1'
NOT IN BASE BID - ADD ALTERNATE #2



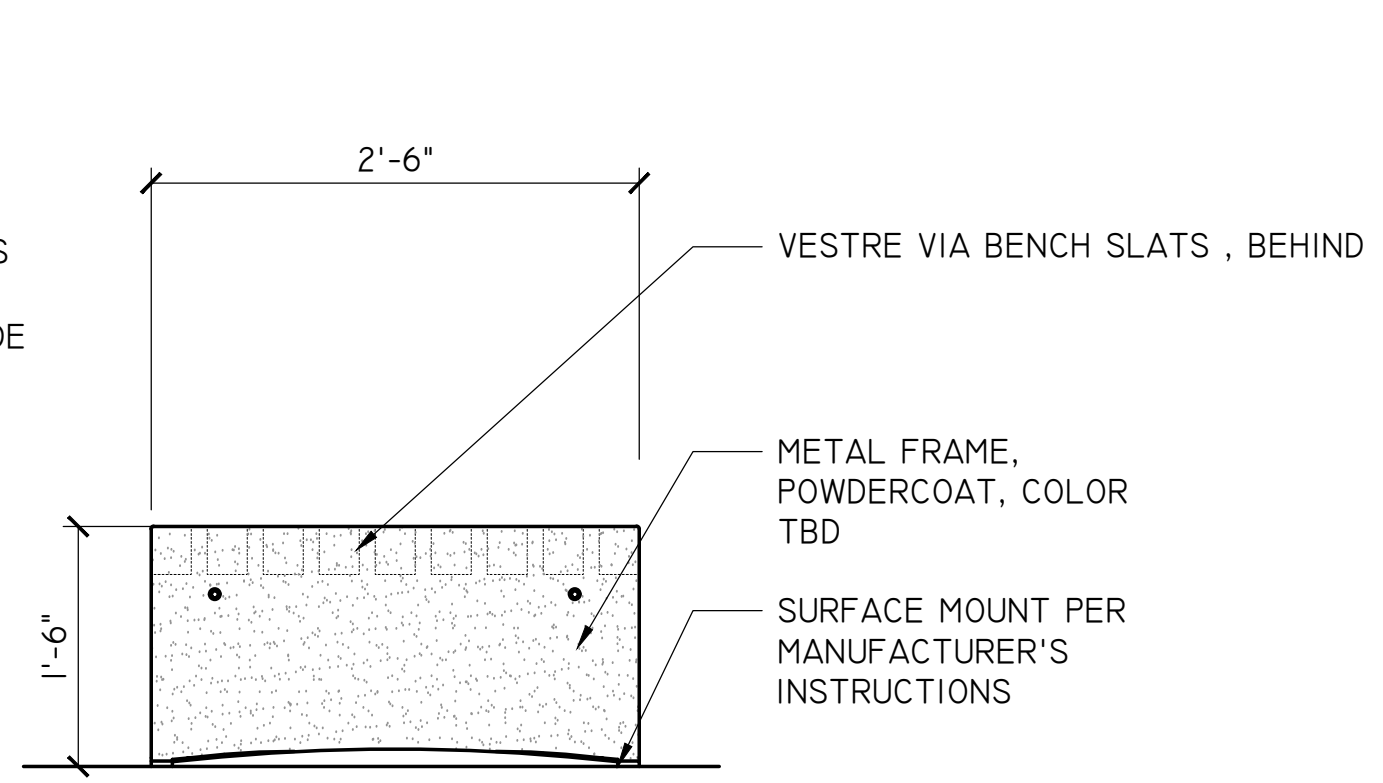
2 CUSTOM BENCH 2
1/2"=1'



3 CUSTOM BENCH 1 SECTION
1/2"=1'
NOT IN BASE BID - ADD ALTERNATE #2



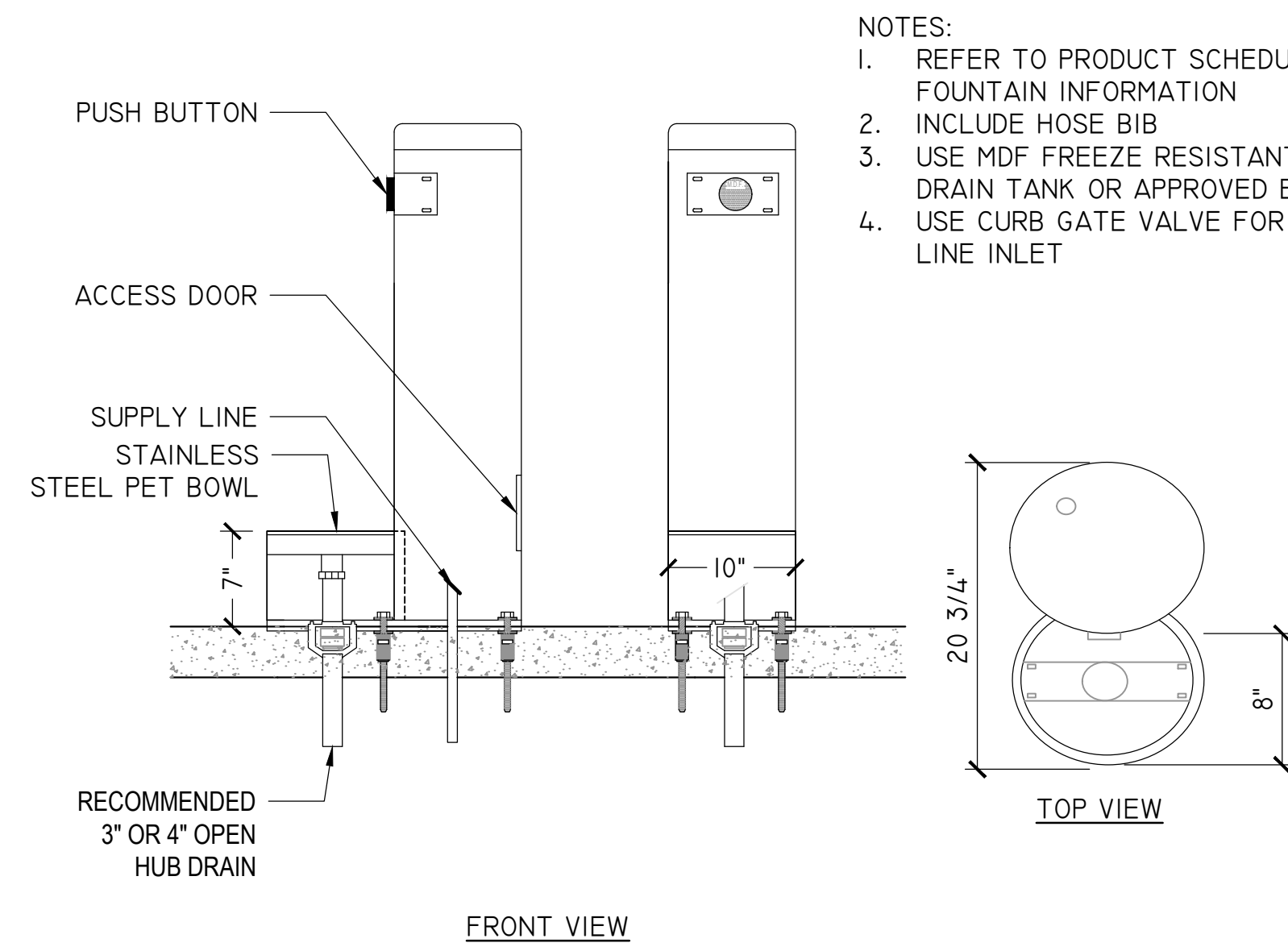
3A CUSTOM BENCH 2 SECTION
1/2"=1'



4 CUSTOM BENCH ELEVATION
1/2"=1'

ARLINGTON COUNTY, VIRGINIA
DEPARTMENT OF ENVIRONMENTAL SERVICES
CONSTRUCTION DETAILS - CUSTOM BENCHES
ARLINGTON JUNCTION PARK-CIVIL ENGINEERING PLAN
1051 SOUTH EADS STREET
ARLINGTON COUNTY, VA

SCALE: AS SHOWN SHEET L314

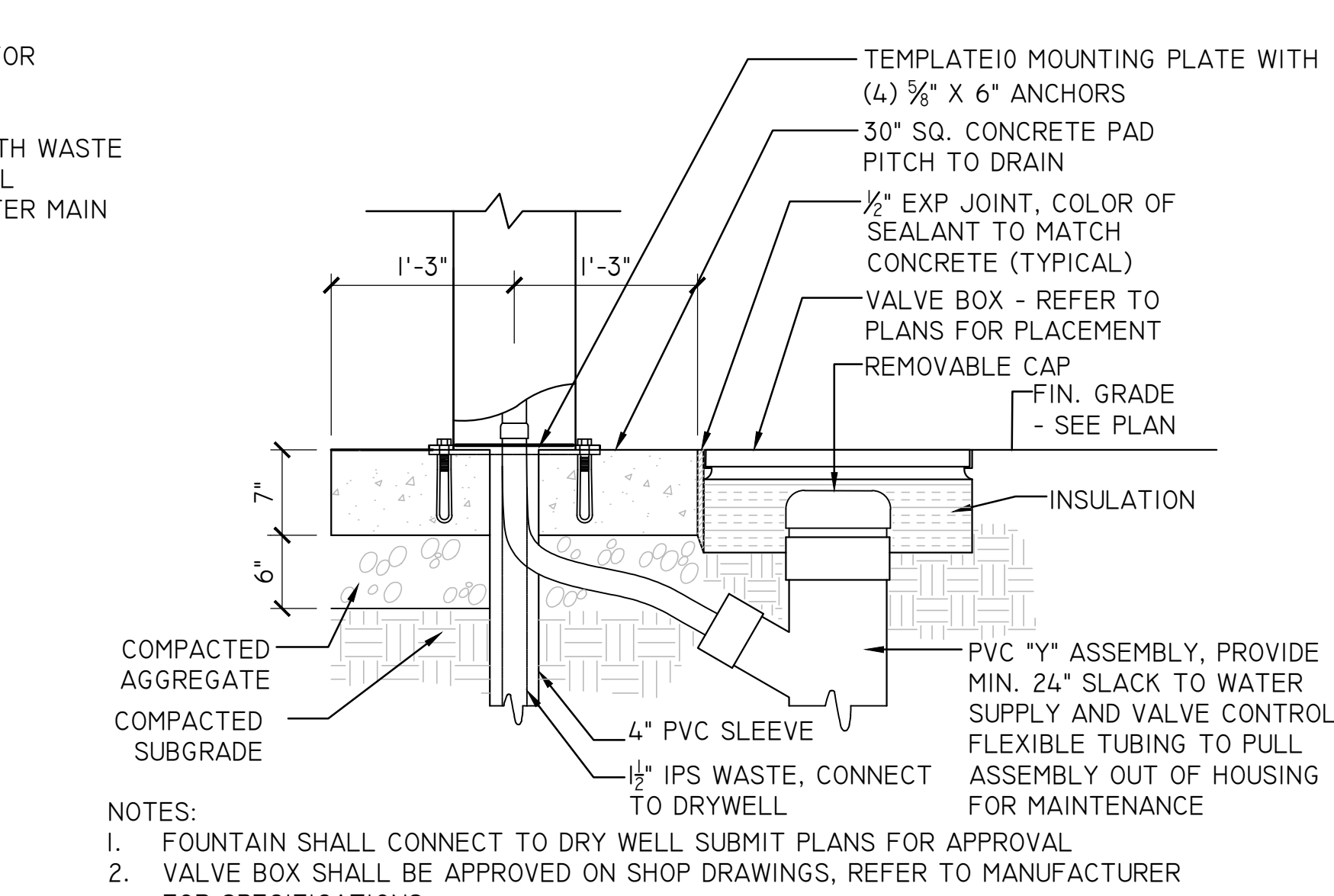


1 DOG WATER FOUNTAIN
 1"=1'-0"

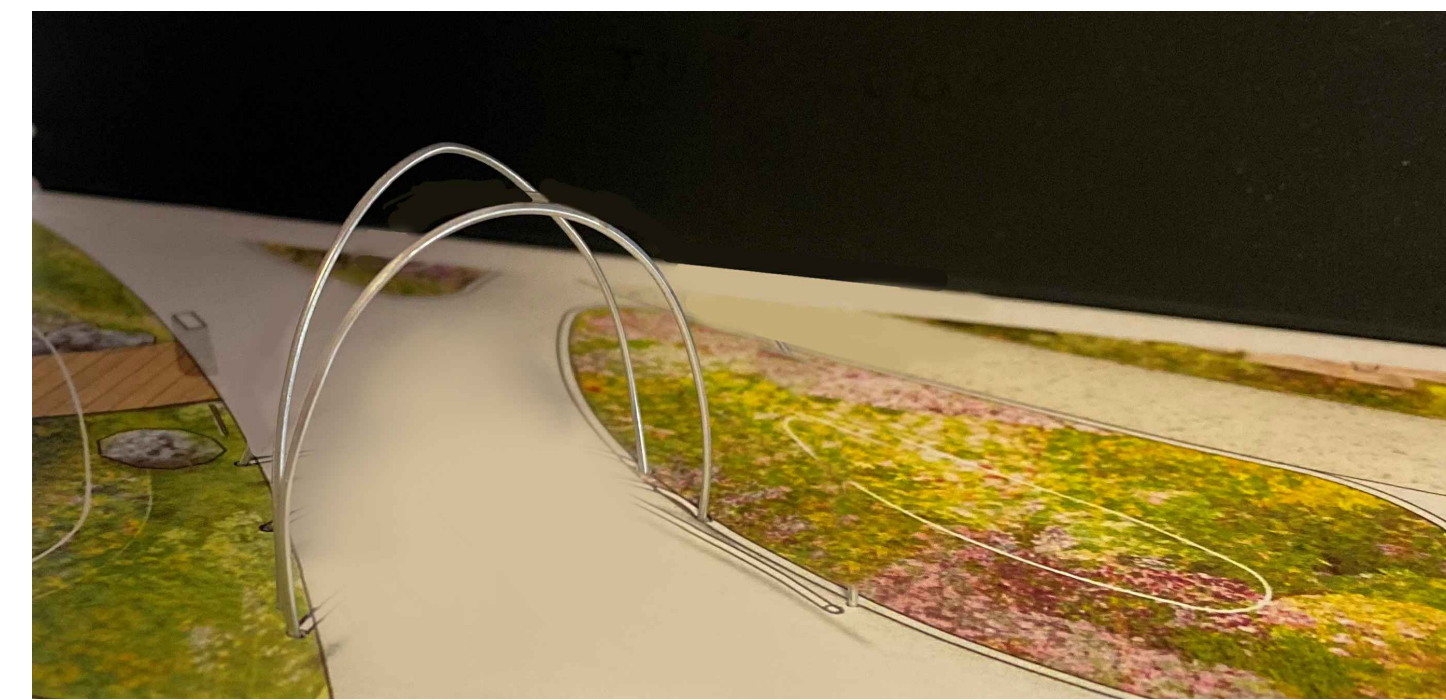


NOTE:
 1. DESIGN TO BE FINALIZED THROUGH COLLABORATION OF LANDSCAPE ARCHITECT, FABRICATOR, AND DPR
 2. PROVIDE SHOP DRAWINGS

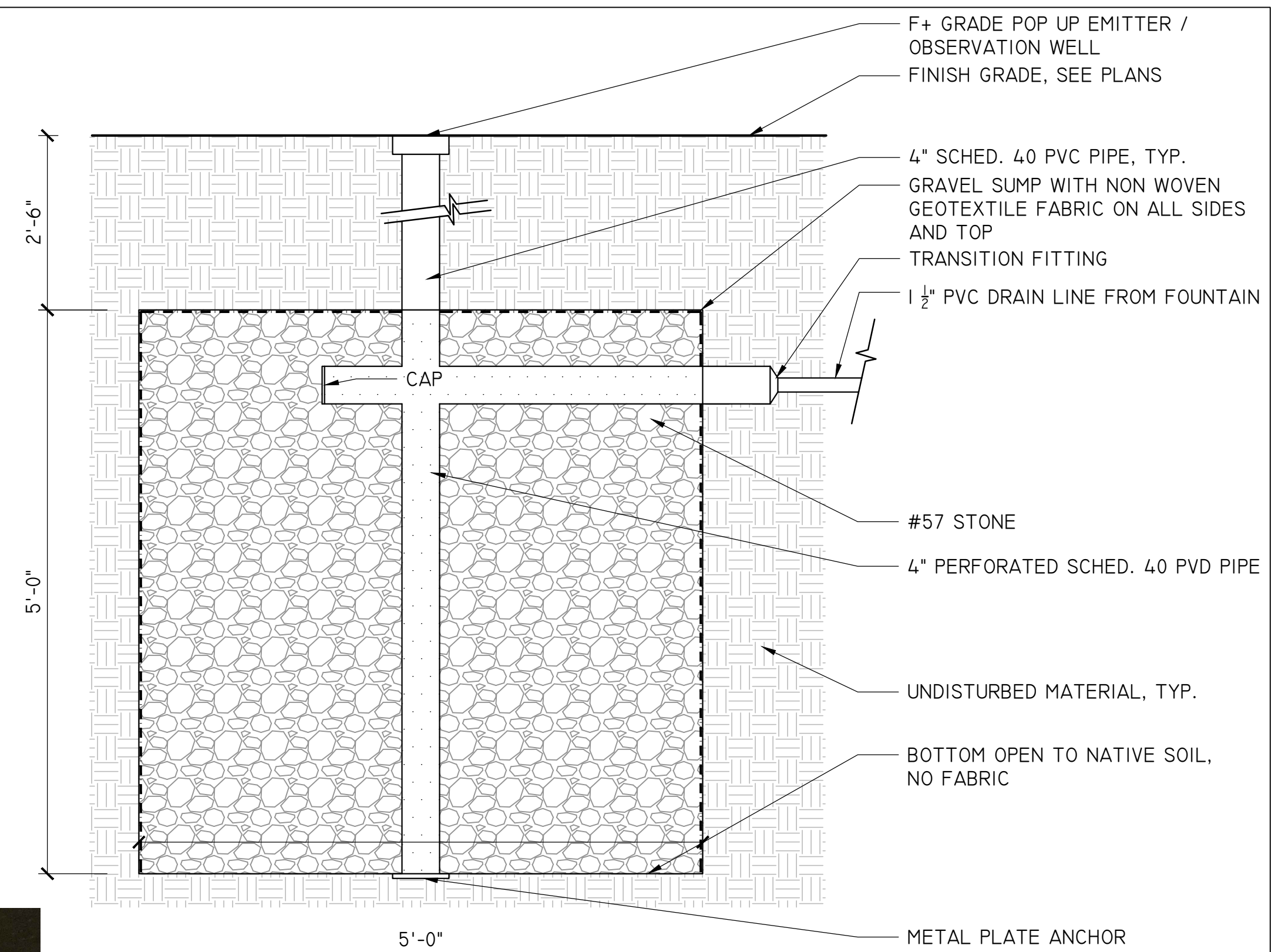
4 MISTER CONCEPT DESIGN
 NTS



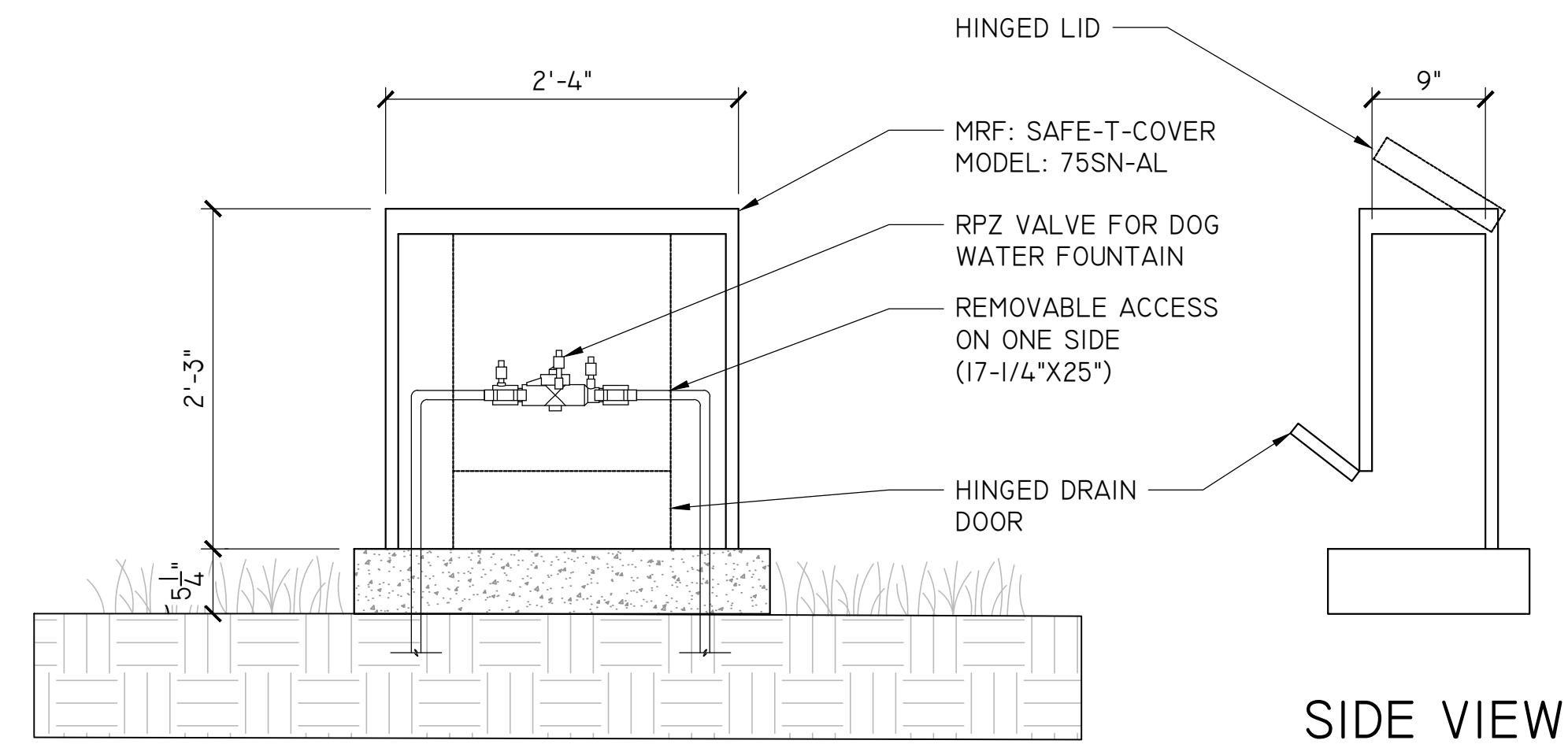
2 PET FOUNTAIN BASE
 1"=1'-0"



5 MISTER CONCEPT
 NTS

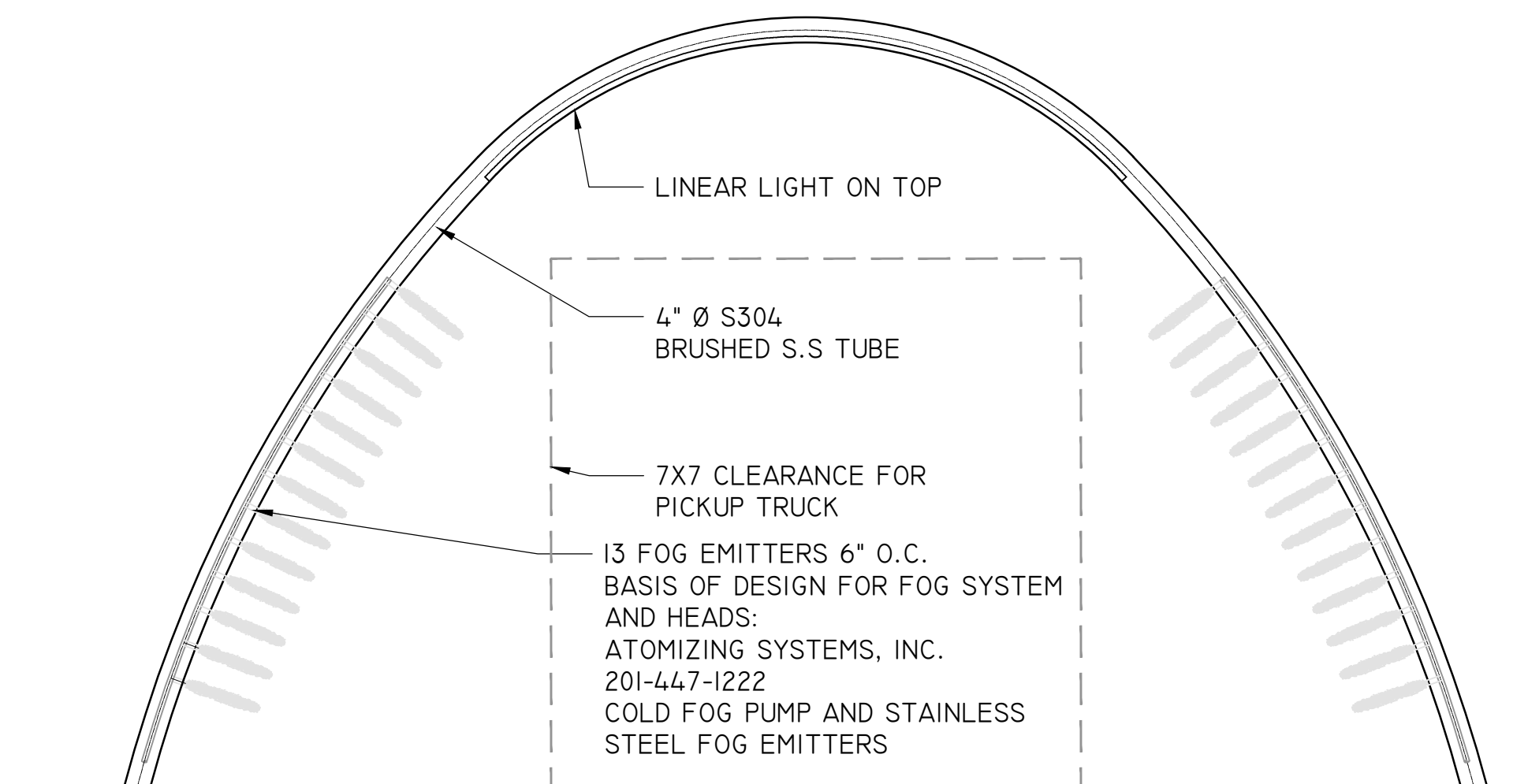


3 PET FOUNTAIN DRYWELL
 1"=1'-0"

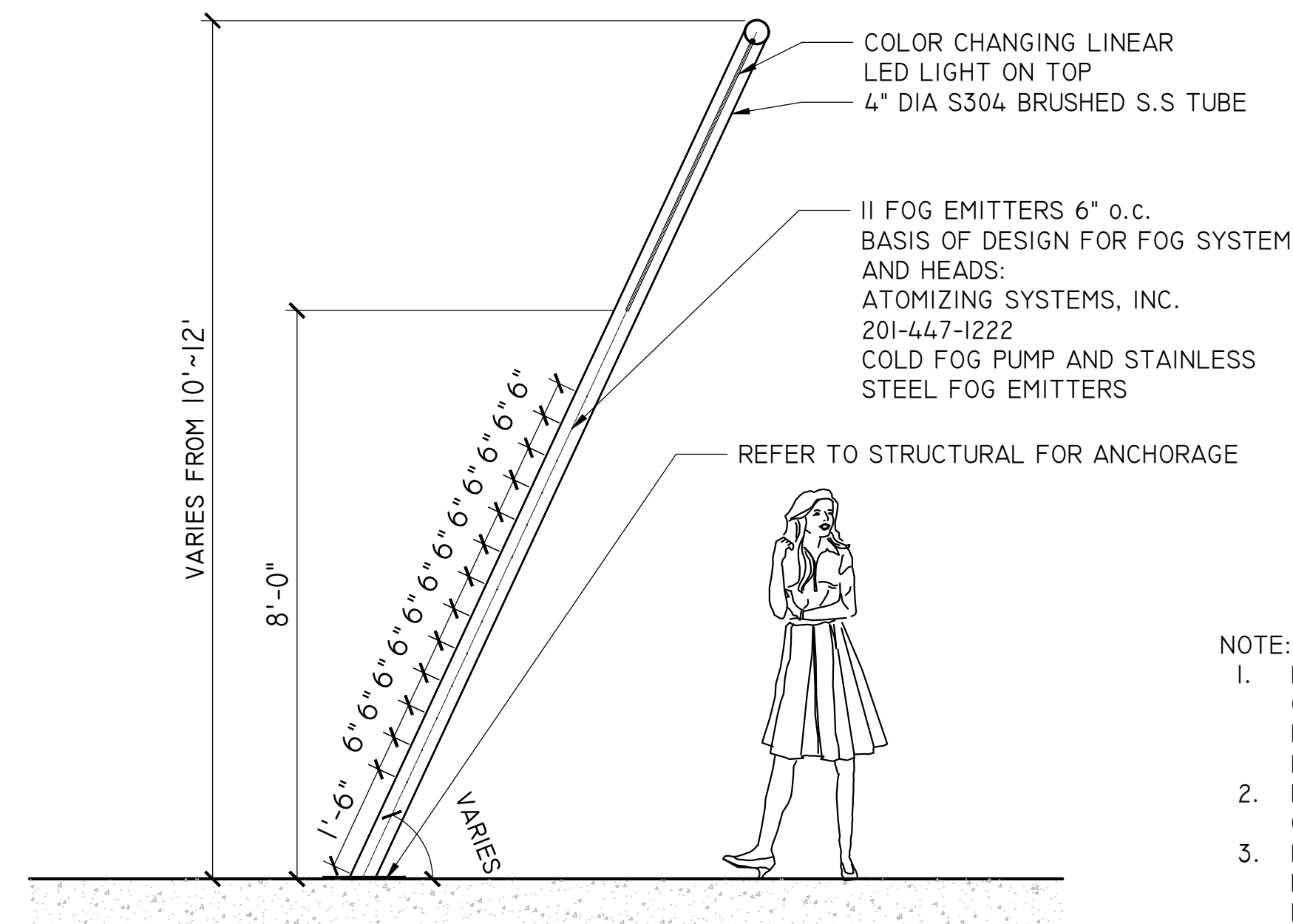


1A ABOVE GROUND RPZ VAULT
 1"=1'-0"

- NOTE:
 1. MISTERS ARE SHOWN FOR ILLUSTRATIVE PURPOSES ONLY. FINAL DESIGN TO BE DETERMINED BY FABRICATOR AND APPROVED BY DPR PROJECT MANAGER AND LANDSCAPE ARCHITECT.
 2. PROVIDE SHOP DRAWINGS FOR MISTER DESIGN, CONSTRUCTION, AND CONNECTIONS.
 3. MISTER FABRICATOR SCOPE OF WORK SHOULD INCLUDE ALL ELEMENTS: TUBE ARCH, FOG EMITTERS, PUMP SYSTEM, LED LIGHTS, MOUNTING PLATE, AND PUSH-BUTTON ACTIVATION SYSTEM, AS WELL AS SHOP DRAWINGS FOR ALL ELEMENTS. WATER CONNECTION TO BE PROVIDED BY OTHERS.
 4. CONTRACTOR TO COORDINATE WITH FABRICATOR AFTER AWARD OF CONTRACT TO PROCURE PROPOSAL AND SHOP DRAWINGS.



6 MISTER ELEVATION
 1/2"=1'-0"



7 MISTER SECTION
 1/2"=1'-0"

ARLINGTON COUNTY, VIRGINIA DEPARTMENT OF ENVIRONMENTAL SERVICES	
CONSTRUCTION DETAILS - MISTERS AND FOUNTAIN ARLINGTON JUNCTION PARK-CIVIL ENGINEERING PLAN 1051 SOUTH EADS STREET ARLINGTON COUNTY, VA	
SCALE: AS SHOWN	SHEET L315



DEPARTMENT OF PARKS AND RECREATION

Park Development Division
 2100 Clarendon Boulevard, Suite 414
 Arlington, VA 22201
 Phone: 703.228.3332
 Fax: 703.228.3328

ITB #23-DPR-ITBPW-450

#SWM 22-0224

Project Name and Location

ARLINGTON JUNCTION PARK

FINAL PLAN

1051 SOUTH EADS STREET

ARLINGTON, VIRGINIA

Sheet Title

CONSTRUCTION DETAILS - MISTERS AND FOUNTAIN

Approval Date

Design Supervisor

Revisions Date

CEP#1 7/15/2021

CEP#2 12/21/2023

BUILDING PERMIT 02/15/2023

REVISED BUILDING PERMIT 04/20/2023

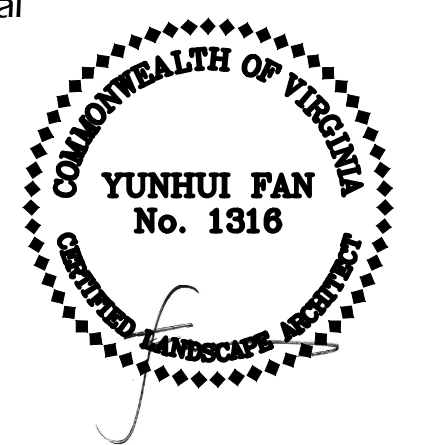
CEP #4 7/20/2023

Designed: JC, SM
 Drawn: SM, CF
 Checked: SM, CF

Filename:
 Plotted:

Scale: AS SHOWN
 Date: 04/20/2023

Seal



Sheet P315

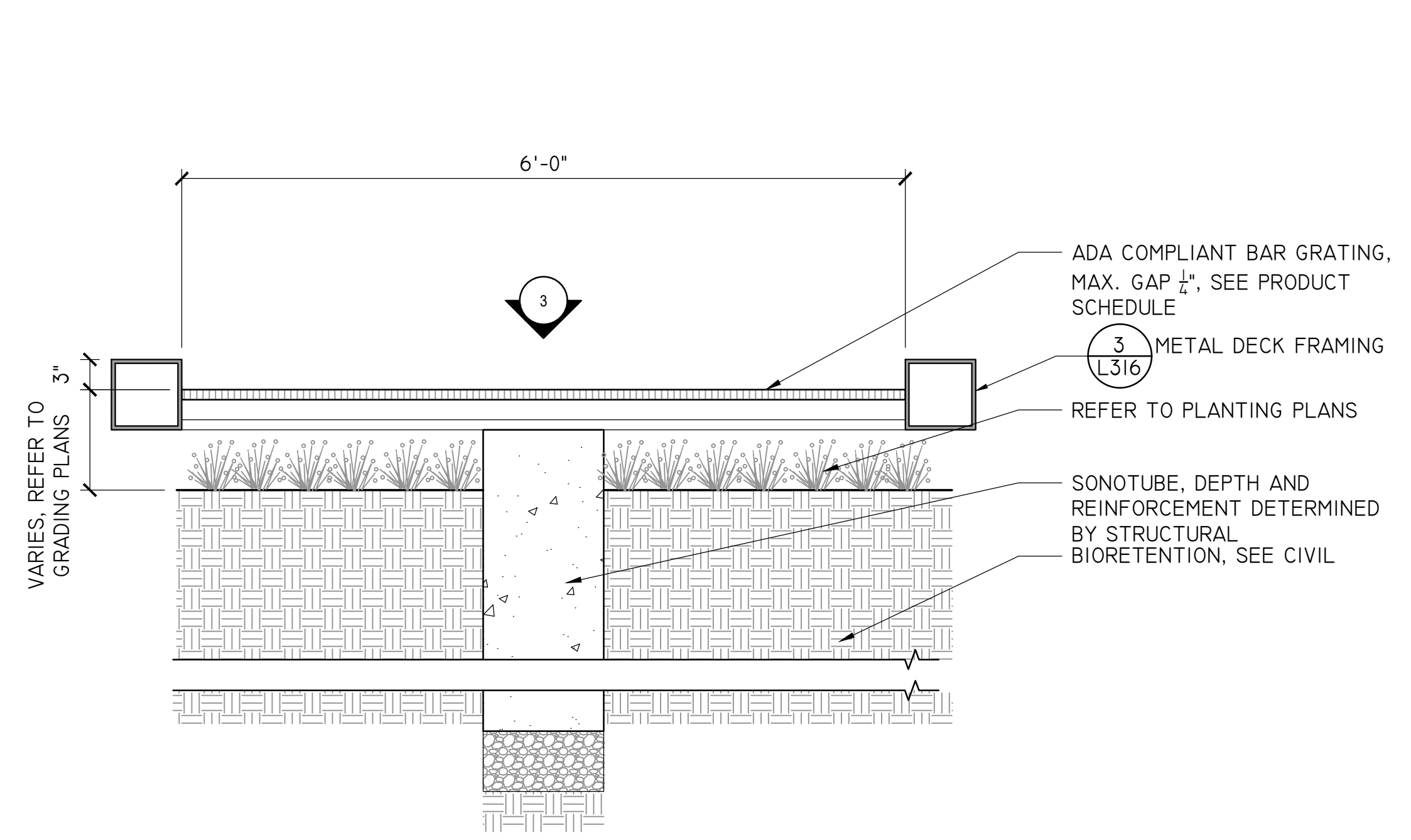
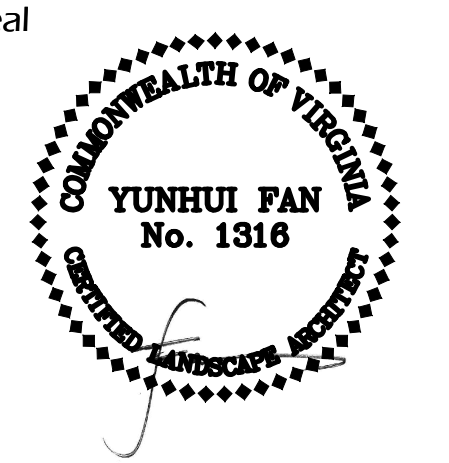
Approval	Date
Design Supervisor	
Revisions	Date
CEP#1	7/15/2021
CEP#2	12/21/2023
BUILDING PERMIT	02/15/2023
REVISED BUILDING PERMIT	04/20/2023
CEP #4	7/20/2023

Designed:
 Drawn: JC, SM
 Checked: SM, CF

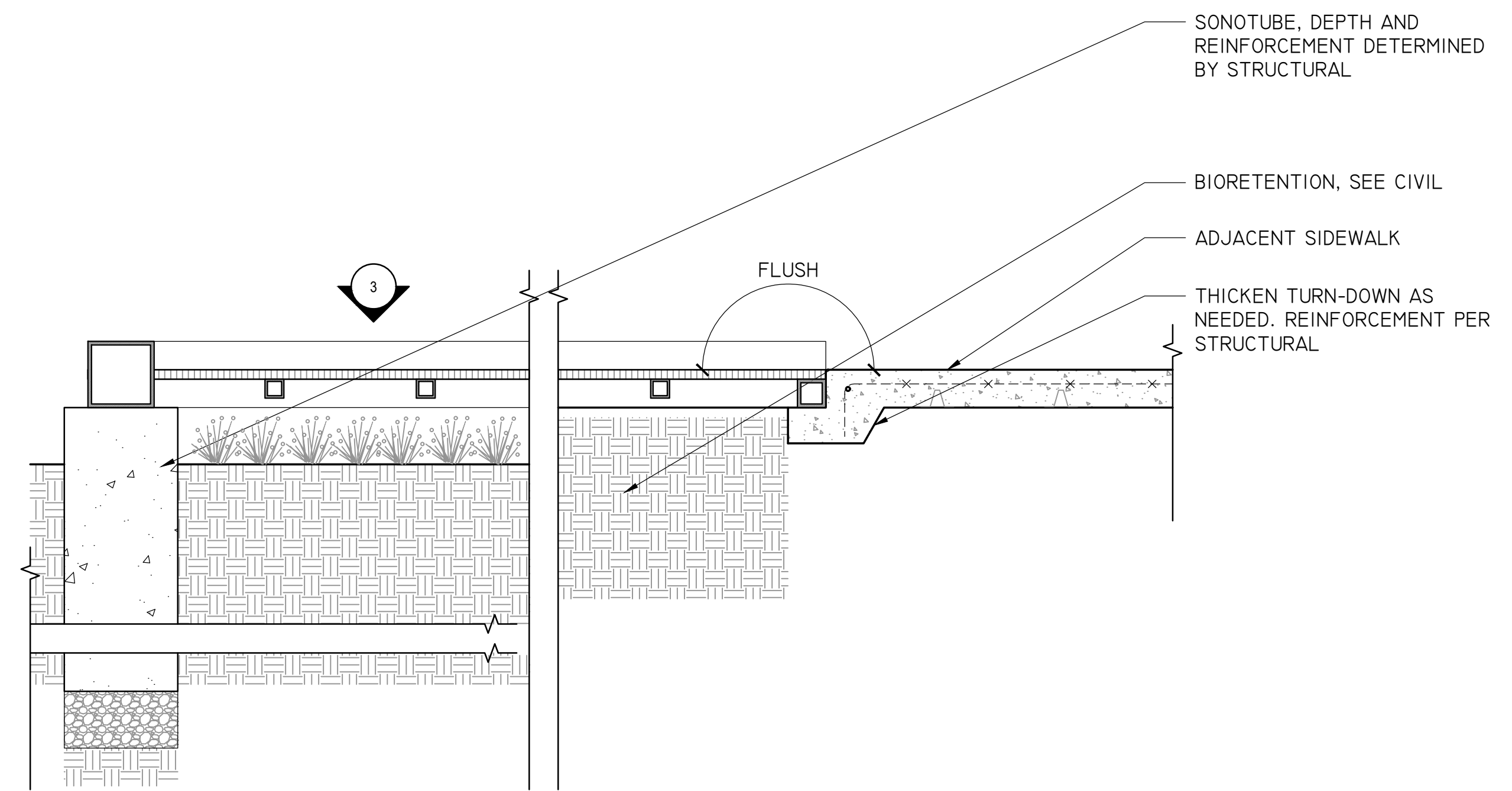
Filename:
 Plotted:

Scale: AS SHOWN
 Date: 04/20/2023

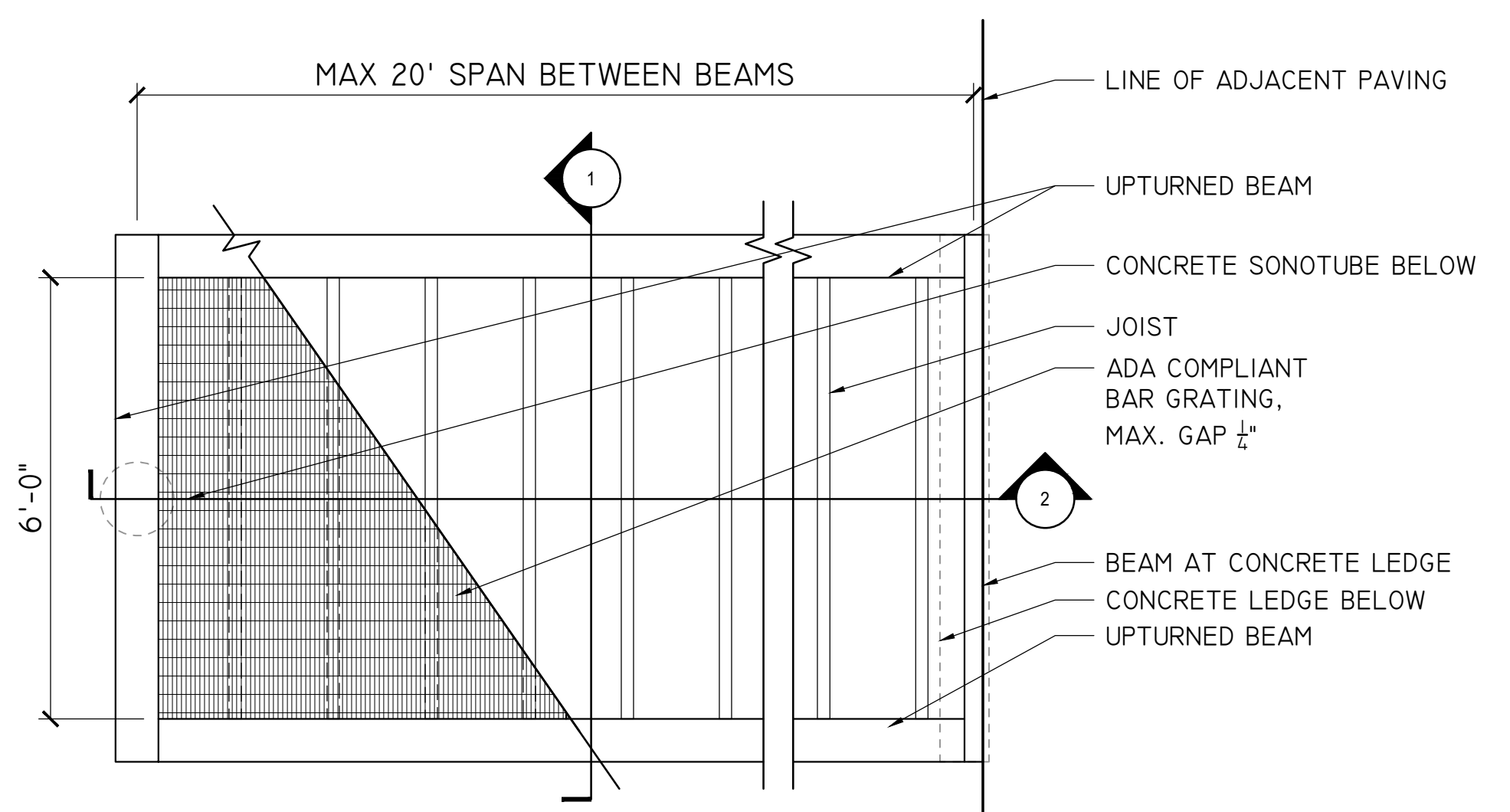
Seal



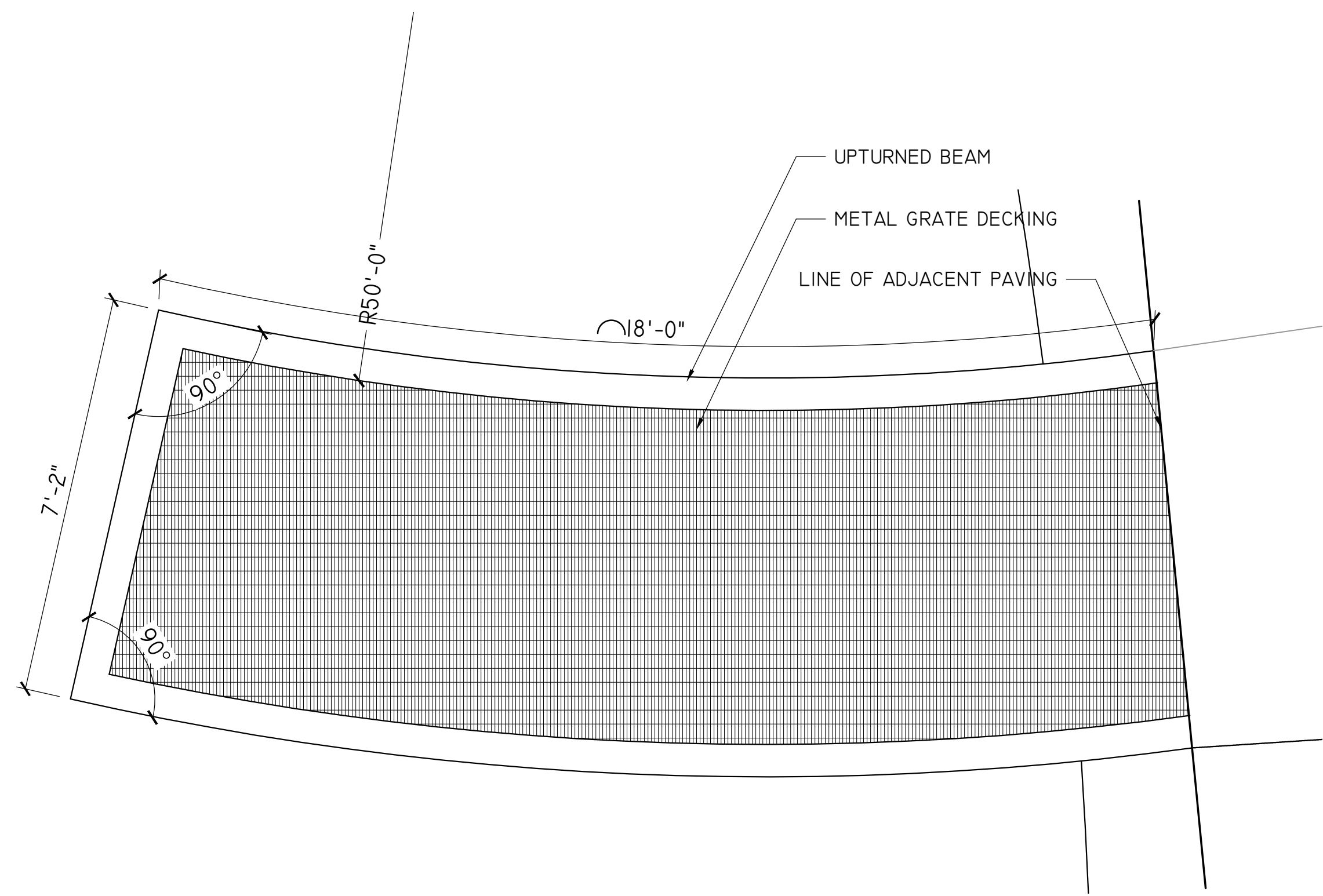
1 METAL BRIDGE SECTION
 1" = 1'-0"



2 METAL BRIDGE SECTION
 1" = 1'-0"



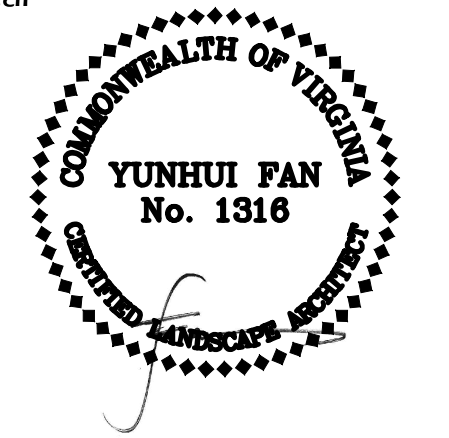
3 METAL BRIDGE FRAMING
 1/2" = 1'-0"



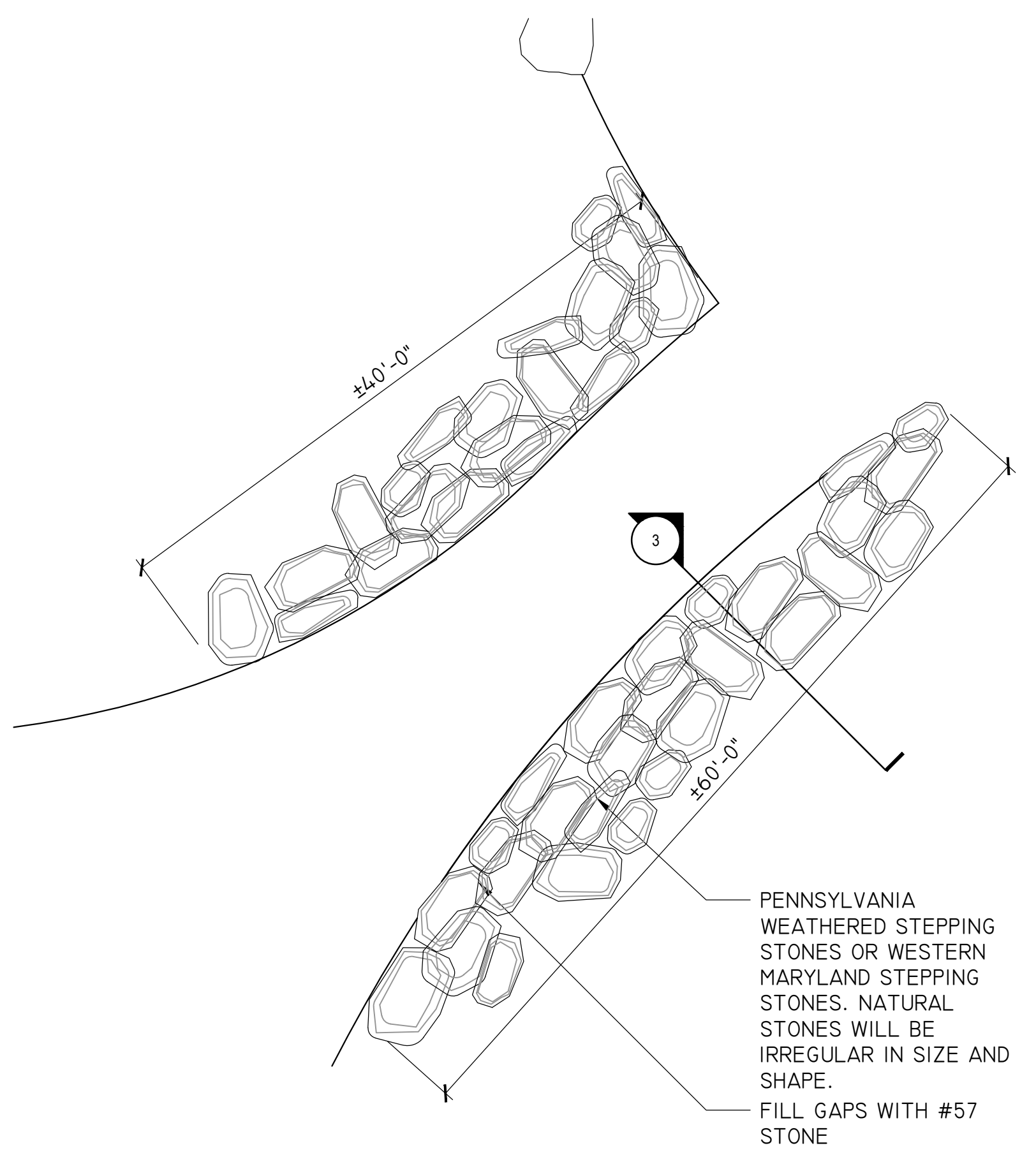
4 METAL BRIDGE PLAN
 1/2" = 1'-0"

NOTE: PROVIDE SHOP DRAWINGS

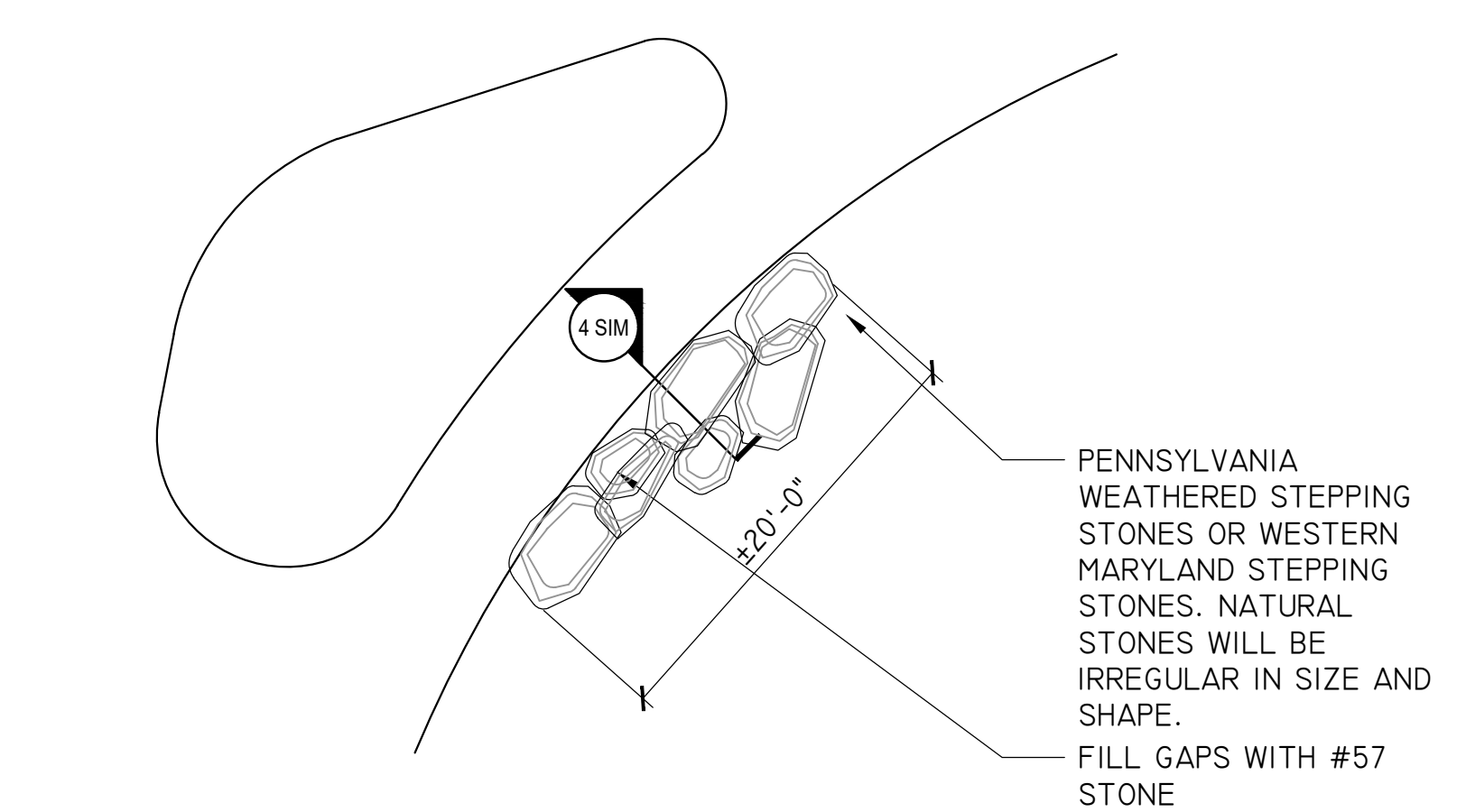
ARLINGTON COUNTY, VIRGINIA DEPARTMENT OF ENVIRONMENTAL SERVICES		
CONSTRUCTION DETAILS - METAL BRIDGE ARLINGTON JUNCTION PARK - CIVIL ENGINEERING PLAN 1051 SOUTH EADS STREET ARLINGTON COUNTY, VA		
SCALE:	AS SHOWN	SHEET L316



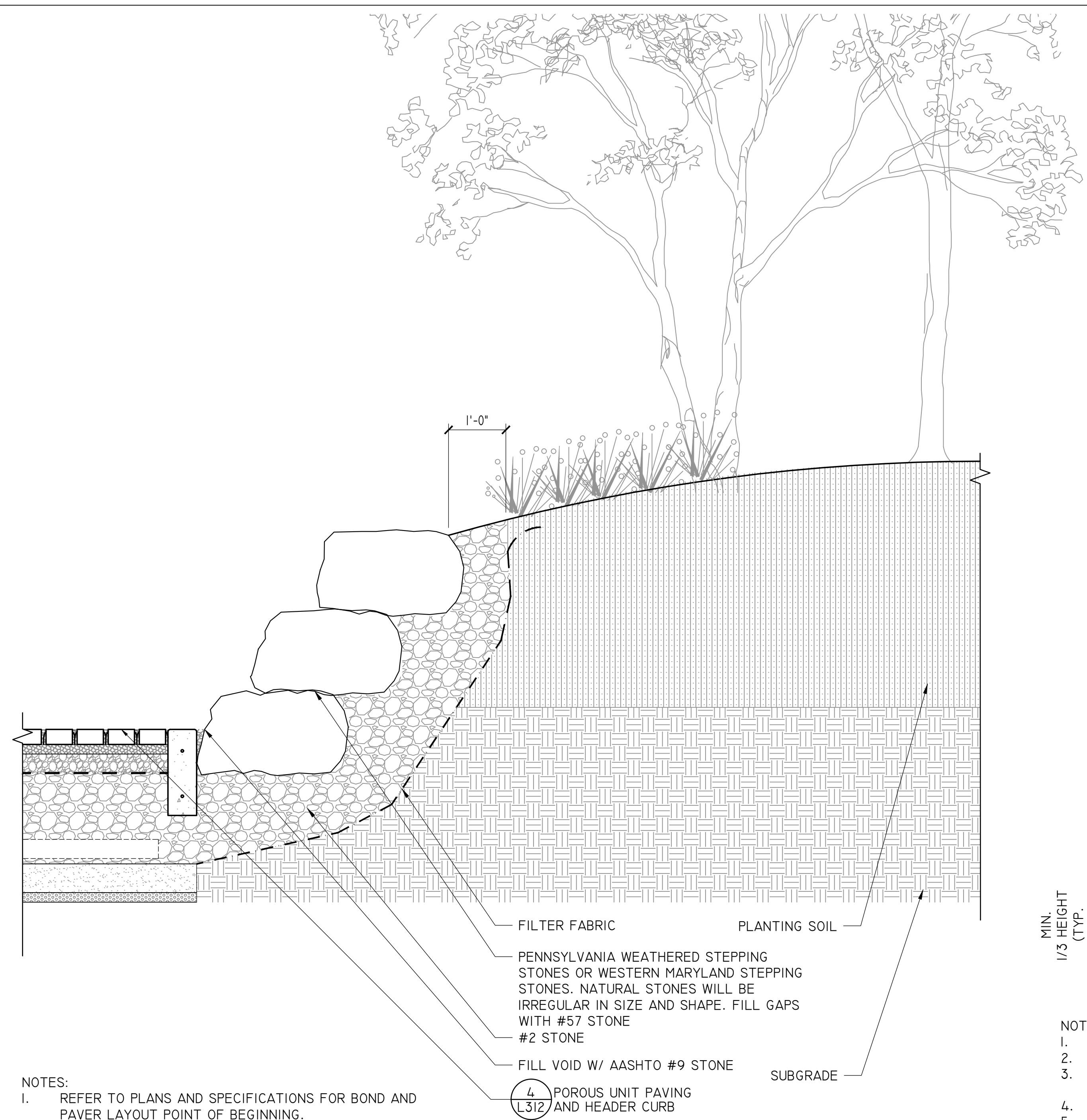
NOTE:
1. WALL DETAILS ARE FOR
ILLUSTRATIVE PURPOSES
ONLY.



1 ENTRY WALL NORTH PARCEL
1/8" = 1'-0"

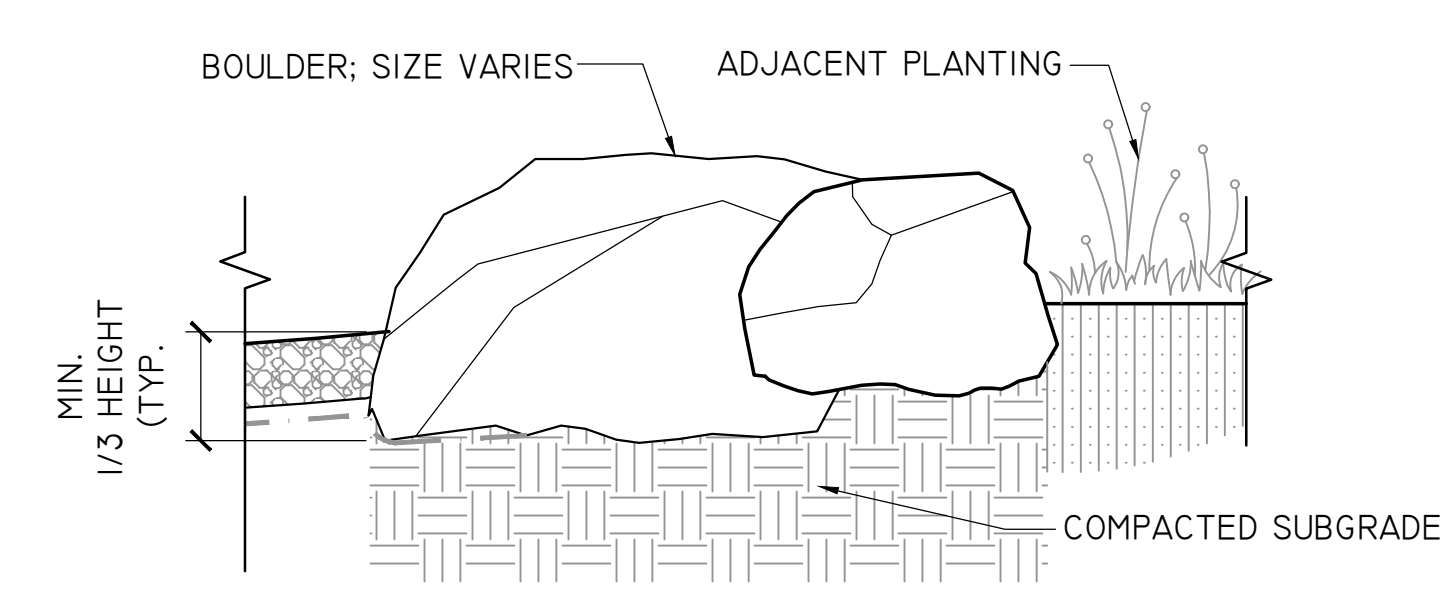


2 ENTRY WALL SOUTH PARCEL
1/8" = 1'-0"



NOTES:
1. REFER TO PLANS AND SPECIFICATIONS FOR BOND AND PAVER LAYOUT POINT OF BEGINNING.
2. AVOID OVER-COMPACTION OF NATURAL SUBGRADE.

3 ENTRY WALL (BOULDER TYPE 1)
3/4" = 1'-0"



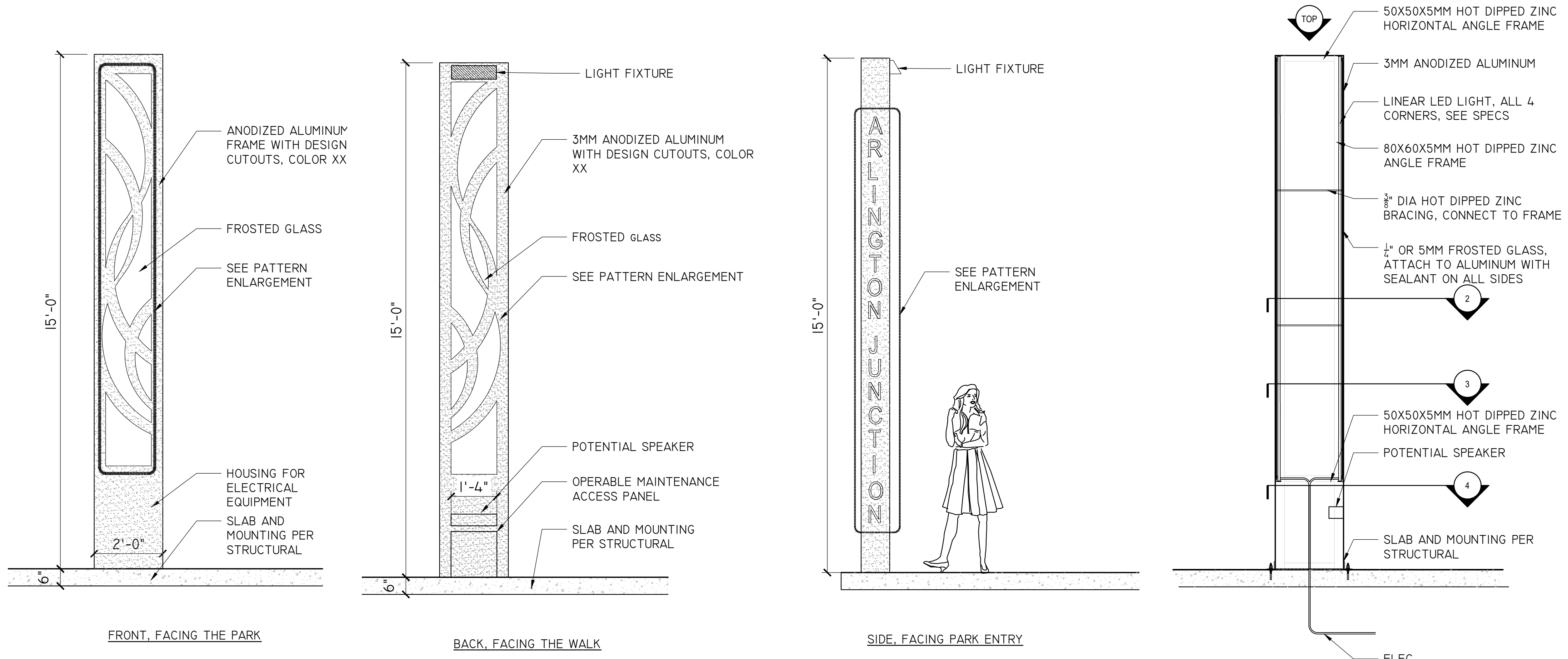
NOTES:
1. BASIS OF DESIGN PRODUCT: PENNSYLVANIA MOUNTAIN BOULDERS.
2. BOULDER SIZE RANGES: REFER TO PRODUCT SCHEDULE.
3. ORIENT AND PLACE BOULDERS AS DIRECTED IN THE FIELD BY THE ARCHITECT.
4. SET WITH TOP SURFACE OF EACH BOULDER +/- LEVEL.
5. ADJACENT CONDITIONS VARY.

5 LANDSCAPE BOULDER TYPE 2
1" = 1'-0"



4 ENTRY WALL ILLUSTRATIVE VIEW
NTS

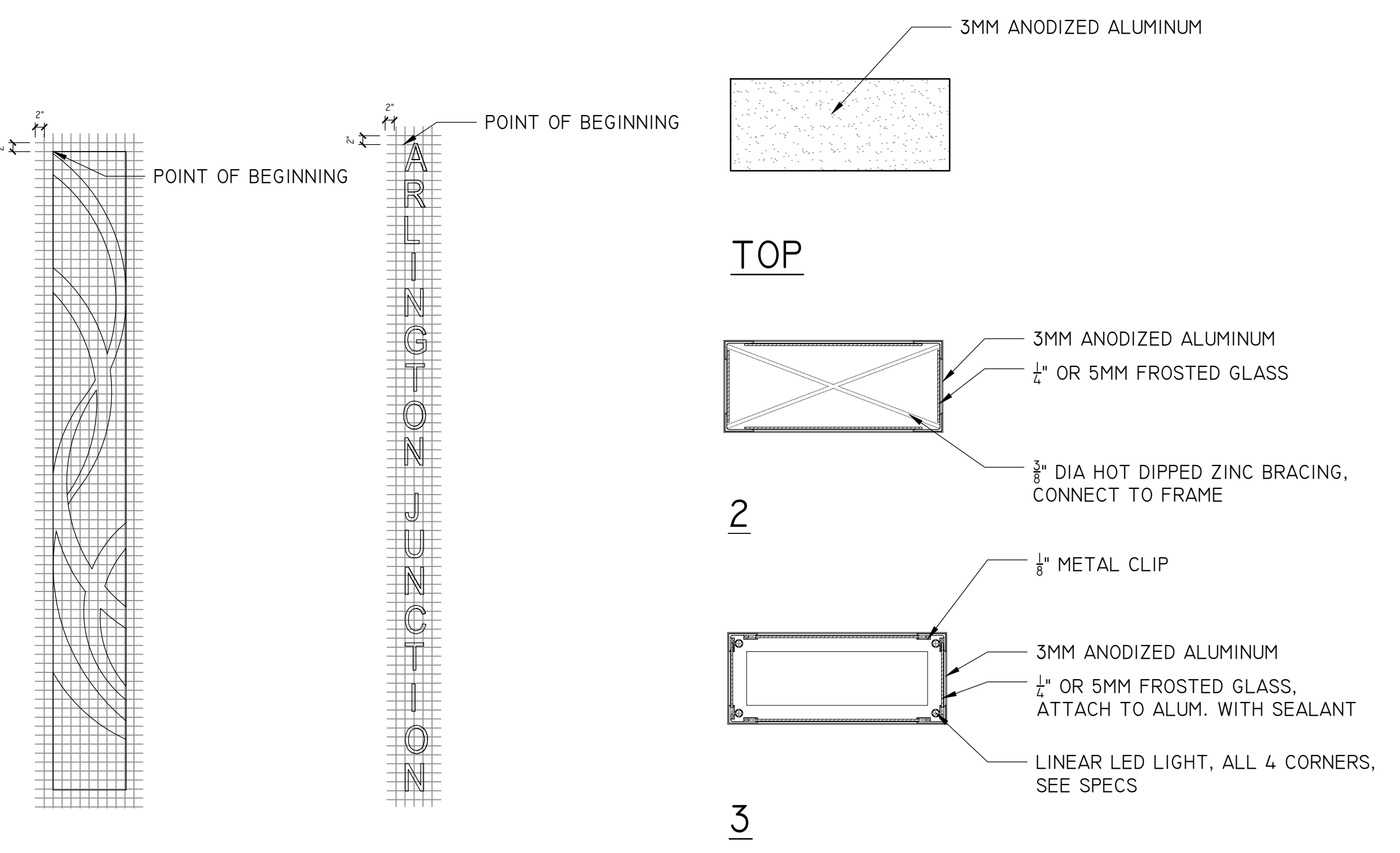
ARLINGTON COUNTY, VIRGINIA DEPARTMENT OF ENVIRONMENTAL SERVICES		
CONSTRUCTION DETAILS - BOULDER WALLS ARLINGTON JUNCTION PARK-CIVIL ENGINEERING PLAN 1051 SOUTH EADS STREET ARLINGTON COUNTY, VA		
SCALE: AS SHOWN	SHEET L317	



NOTE: STEEL FRAMING SHOWN FOR PYLON LIGHT IS CONCEPTUAL ONLY. FABRICATOR / SUPPLIER SHALL DESIGN THE PYLON TO SUPPORT THE LOADING REQUIREMENTS INDICATED ON THE STRUCTURAL DRAWINGS, AND TO MATCH THE GEOMETRY AND SUPPORT THE FINISHES ON THE LANDSCAPE DRAWINGS. FABRICATOR / SUPPLIER SHALL SUBMIT THE PROPOSED ASSEMBLY ALONG WITH CALCULATIONS STAMPED AND SIGNED BY THE VIRGINIA LICENSED PROFESSIONAL ENGINEER RESPONSIBLE FOR THE DESIGN OF THE PYLON SUPPORTS.

1 LI- PYLON AREA LIGHT ELEVATIONS
1/2"=1'-0"

2 LIGHT VERTICAL SECTIONS
1/2"=1'-0"



3 PATTERN ENLARGEMENT 1/2"=1'-0"
4 LI- PYLON AREA LIGHT HORIZONTAL SECTIONS 1"=1'-0"



DEPARTMENT OF PARKS AND RECREATION
Park Development Division
2100 Clarendon Boulevard, Suite 414
Arlington, VA 22201
Phone: 703.228.3332
Fax: 703.228.3328

ITB #23-DPR-ITBPW-450

#SWM 22-0224

Project Name and Location
ARLINGTON JUNCTION PARK

FINAL PLAN

1051 SOUTH EADS STREET
ARLINGTON, VIRGINIA

Sheet Title
CONSTRUCTION DETAILS - LIGHTING

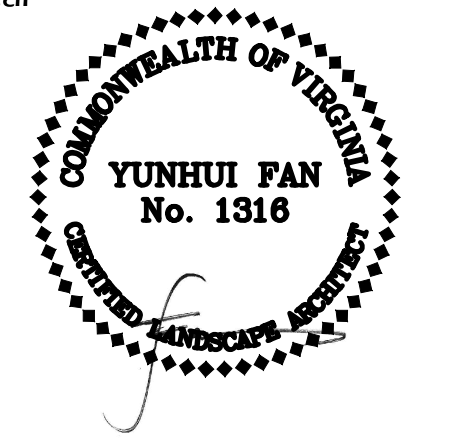
Approval	Date
Design Supervisor	
Revisions	Date
CEP#1	7/15/2021
CEP#2	12/21/2023
BUILDING PERMIT	02/15/2023
REVISED BUILDING PERMIT	04/20/2023
CEP #4	7/20/2023

Designed:
Drawn: JC, SM
Checked: SM, CF

Filename:
Plotted:

Scale: AS SHOWN
Date: 04/20/2023

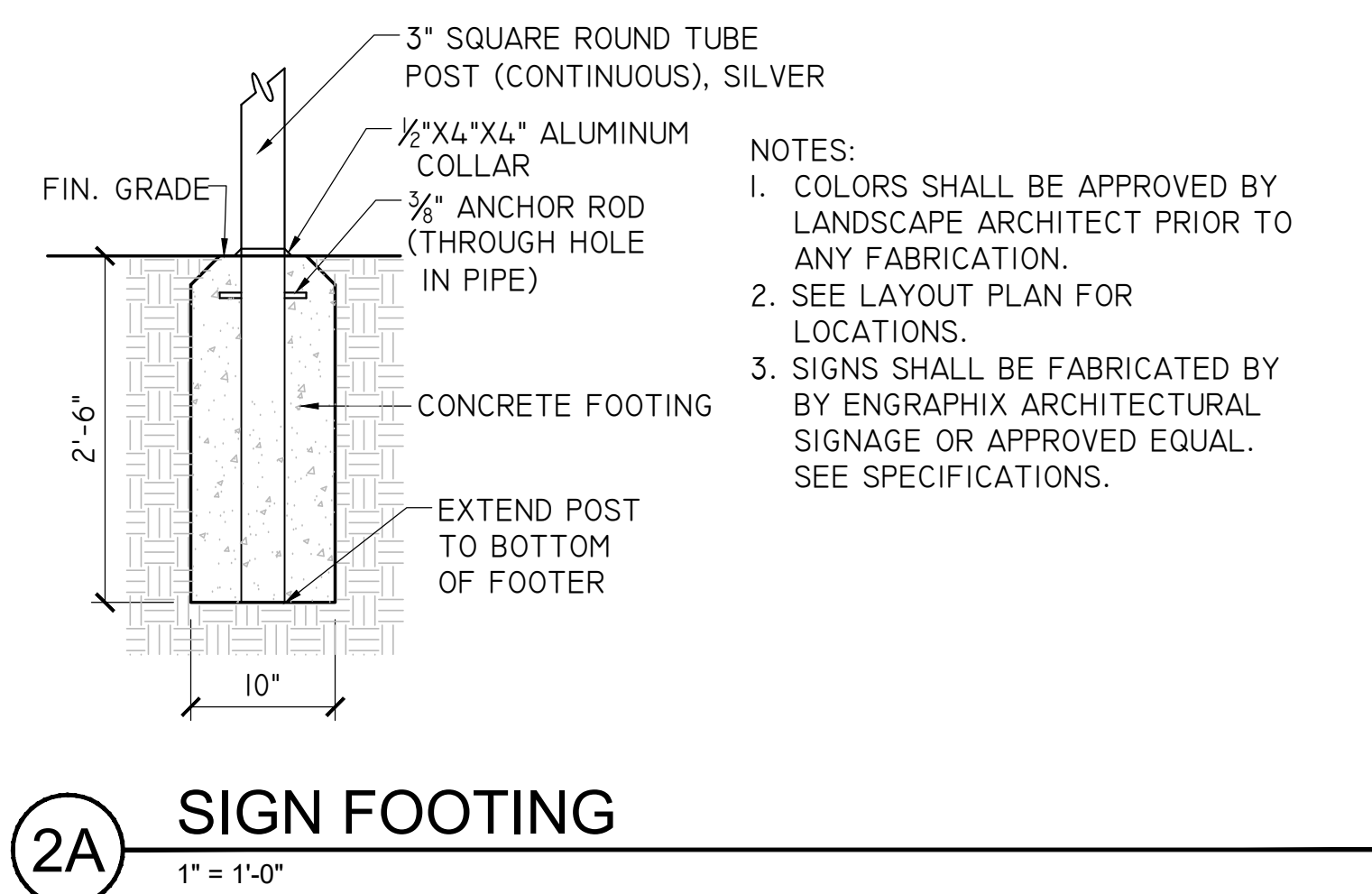
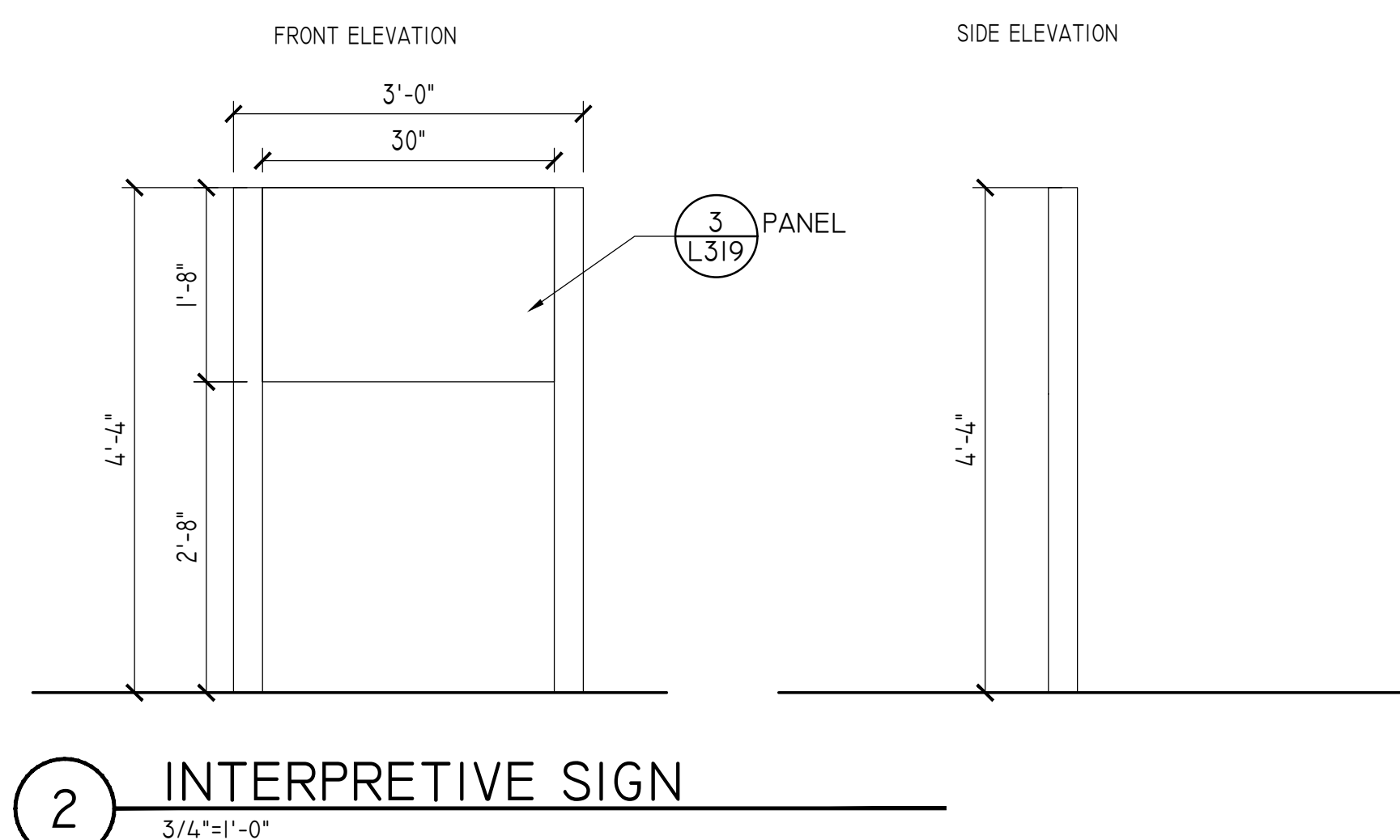
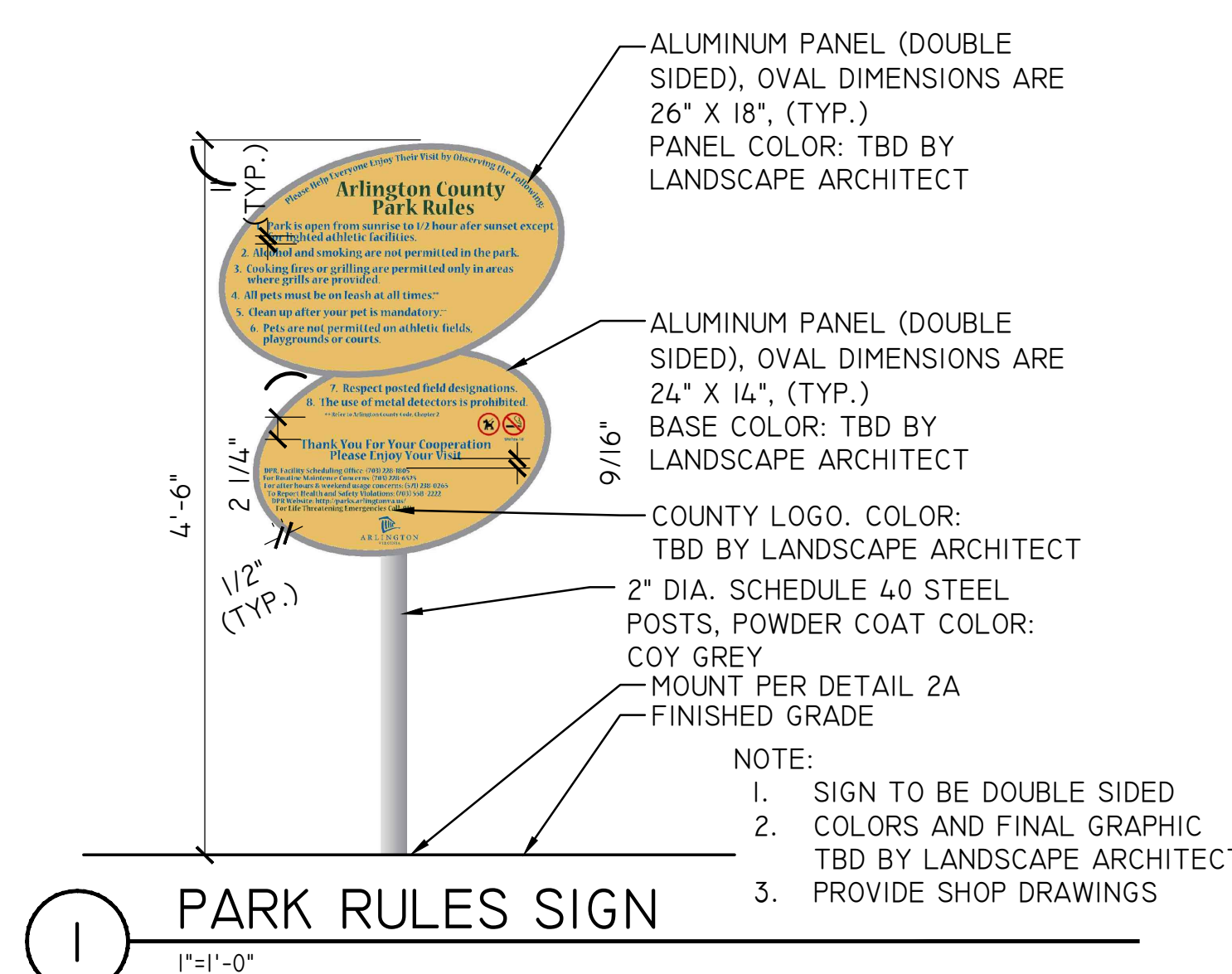
Seal



ARLINGTON COUNTY, VIRGINIA
DEPARTMENT OF ENVIRONMENTAL SERVICES
CONSTRUCTION DETAILS - LIGHTING
ARLINGTON JUNCTION PARK-CIVIL ENGINEERING PLAN
1051 SOUTH EADS STREET
ARLINGTON COUNTY, VA

SCALE: AS SHOWN SHEET L318

Sheet L318



ARLINGTON JUNCTION & ALEXANDRIA CANAL

The park you are in today reflects the evolution of how people have moved and used this space in Arlington County. Before it was a park, the Alexandria Canal and an electric trolley station called "Arlington Junction Station" marked a change in how people got around what is now Arlington County from travel on our waterways to rail lines, before shifting again to roads and now, a public park.

The Alexandria Canal had been completed in 1843, largely through the forced labor of black slaves, as an extension of the Chesapeake and Ohio (C&O) Canal, allowing merchants on the south side of the Potomac River to be connected to markets in Georgetown, D.C., and Maryland. When completed, the Alexandria Canal connected the Rosslyn neighborhood to Georgetown via a 1,000-foot-long aqueduct that crossed the Potomac River and then ran south, through the site, and into the City of Alexandria.

Arlington Junction Station was one stop on the new trolley line that was constructed in 1896 along the towpath of what was the Alexandria Canal. The new trolley line allowed the Washington, Alexandria and Mount Vernon Electric Railway to offer continuous service between Washington, D.C. and Mount Vernon.

Electric trolleys served Arlington Junction Station until 1932. The last trolleys of the Washington-Mount Vernon line ran on January 18, 1932. Later that year, the tracks were removed, and portions of the right-of-way were used to build the George Washington Memorial Parkway. A line between Clarendon and Arlington Junction Station was abandoned on July 1, 1932, marking the end of Arlington Junction as a trolley station.

PARK HISTORY

GREEN INFRASTRUCTURE - BIORETENTION & PERVIOUS PAVERS

WHAT IS BIORETENTION?
Bioretention is a green infrastructure technique that collects and filters stormwater runoff. Native plants, mulch, and soil help to filter pollutants from the water. Excess water flows through a drain at the bottom to the storm sewer system and then to the local stream. Rain gardens with plants native to Arlington County and the region protect the health of local streams, the Potomac River and the Chesapeake Bay.

BENEFITS

- Remove pollutants
- Control runoff
- Volume and flows
- Recharge
- Groundwater
- Provide wildlife
- Habitat

(1) Permeable paver allow water to pass through into the ground
(2) 5:1 slope preferred, but varies
(3) Special soil filters and absorbs stormwater
(4) Choose native plants
(5) Overflow riser to storm drain

PERVIOUS PAVERS
MULCH
SOIL
GRAVEL
STONE
BIORETENTION

For your safety: do not wade or allow children or dogs to play in the rain garden.

GREEN INFRASTRUCTURE

3 INTERPRETIVE PANEL
NTS

Can you find these 5 plants pollinators love in our garden?

PROTECT OUR POLLINATORS

Pollinators are critical to our world. Without them, many plants and foods would not exist. Planting a small pollinator garden can make a huge difference as pollinators have suffered greatly from loss of habitat in the past few decades. Here are some ideas to help welcome pollinators to your garden:

- Plant a variety of regionally native plants that bloom from early spring to late fall
- Provide water sources for drinking and reproduction, provide nesting areas such as a dead wood
- Reduce or eliminate pesticide use

POLLINATOR GARDEN

Plant photo credits: Digital Atlas of the Virginia Flora.

POLLINATOR GARDEN

Did you know?
..... We have over 750,000 trees in Arlington County!

TREE CONSERVATION & BENEFITS

The Critical Root Zone (CRZ)
A tree needs roots for stability and to access nutrients and water. A tree's roots may spread farther than the crown of a tree. The Critical Root Zone (CRZ) is a circular region, measured outwards from the tree trunk, representing the area of roots that must be protected from damage to help a tree survive. The majority of tree roots grow in the top 2 feet of soil in our region. An easy way to understand where a tree's roots might be is to measure the trunk diameter in inches (at 4.5 ft from the ground), take this number, and project it in feet away from the trunk. The critical root zone of a 43-inch tree, for example, will be a 43 ft circular area around the tree trunk. Tree roots are unlikely to be under hardened, compacted surfaces like roads or buildings, and will explore open, uncompacted areas first.

Structural Root Zone (SRZ) is the area around the base of a tree required for the tree's stability in the ground. These are six times the diameter, in inches. For example, 40 inch tree equal to 200 inch SRZ.

Supplemental Watering
1) The best time of day to water is early morning and late evening.
2) Both young and mature trees can benefit from extra water. Water young trees 25 gallons a week. Water mature trees during drought, by laying a garden hose over the roots, and letting it water at a low setting, for 30 minutes a week.

They provide the following benefits:

- Cooling Our Streets
- Improving Our Mental and Physical Health
- Protecting Biodiversity
- Filtering our air and water
- Increase Property Value

TREE PRESERVATION



DEPARTMENT OF PARKS AND RECREATION

Park Development Division
2100 Clarendon Boulevard, Suite 414
Arlington, VA 22201
Phone: 703.228.3332
Fax: 703.228.3328

ITB #23-DPR-ITBPW-450

#SWM 22-0224

Project Name and Location
ARLINGTON JUNCTION PARK

FINAL PLAN

1051 SOUTH EADS STREET
ARLINGTON, VIRGINIA

Sheet Title
CONSTRUCTION DETAILS - SIGNAGE

Approval _____ Date _____

Design Supervisor _____

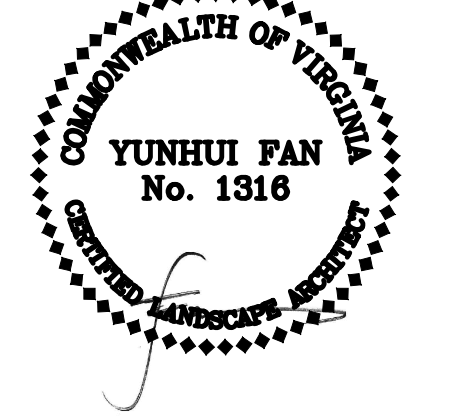
Revisions	Date
CEP#1	7/15/2021
CEP#2	12/21/2023
BUILDING PERMIT	02/15/2023
REVISED BUILDING PERMIT	04/20/2023
CEP #4	7/20/2023

Designed: _____
Drawn: JC, SM
Checked: SM, CF

Filename: _____
Plotted: _____

Scale: AS SHOWN
Date: 04/20/2023

Seal



Sheet **L319**

ARLINGTON COUNTY, VIRGINIA
DEPARTMENT OF ENVIRONMENTAL SERVICES

CONSTRUCTION DETAILS - SIGNAGE
ARLINGTON JUNCTION PARK-CIVIL ENGINEERING PLAN
1051 SOUTH EADS STREET
ARLINGTON COUNTY, VA

SCALE: AS SHOWN SHEET L319



1 BENCH
NTS



2 CUSTOM BENCH
NTS



3 CUSTOM PYLON
NTS



4 PYLON FIXTURE
NTS



5 BOLLARD
NTS



6 PARK LIGHT POLE
NTS



7 SEATING NOOK - TABLES & CHAIRS
NTS



8 SEATING NOOK - LOUNGE
NTS



9 POWER PEDESTAL
NTS

NOTE: THIS SHEET IS FOR ILLUSTRATIVE PURPOSES ONLY. REFER TO PRODUCT SCHEDULE FOR MANUFACTURERS, MODEL NUMBERS, SIZES, COLORS ETC.

ARLINGTON COUNTY, VIRGINIA
DEPARTMENT OF ENVIRONMENTAL SERVICES

CONSTRUCTION DETAILS-SITE FURNISHING
ARLINGTON JUNCTION PARK-CIVIL ENGINEERING PLAN
1051 SOUTH EADS STREET
ARLINGTON COUNTY, VA

SCALE: AS SHOWN SHEET L320

Approval _____ Date _____

Design Supervisor _____

Revisions _____ Date _____

CEP#1 7/15/2021

CEP#2 12/21/2023

BUILDING PERMIT 02/15/2023

REVISED BUILDING PERMIT 04/20/2023

CEP #4 7/20/2023

Designed: _____

Drawn: JC, SM

Checked: SM, CF

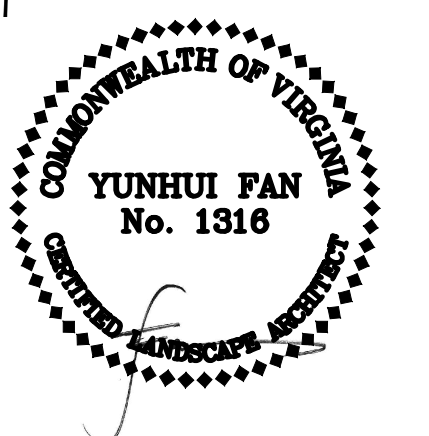
Filename: _____

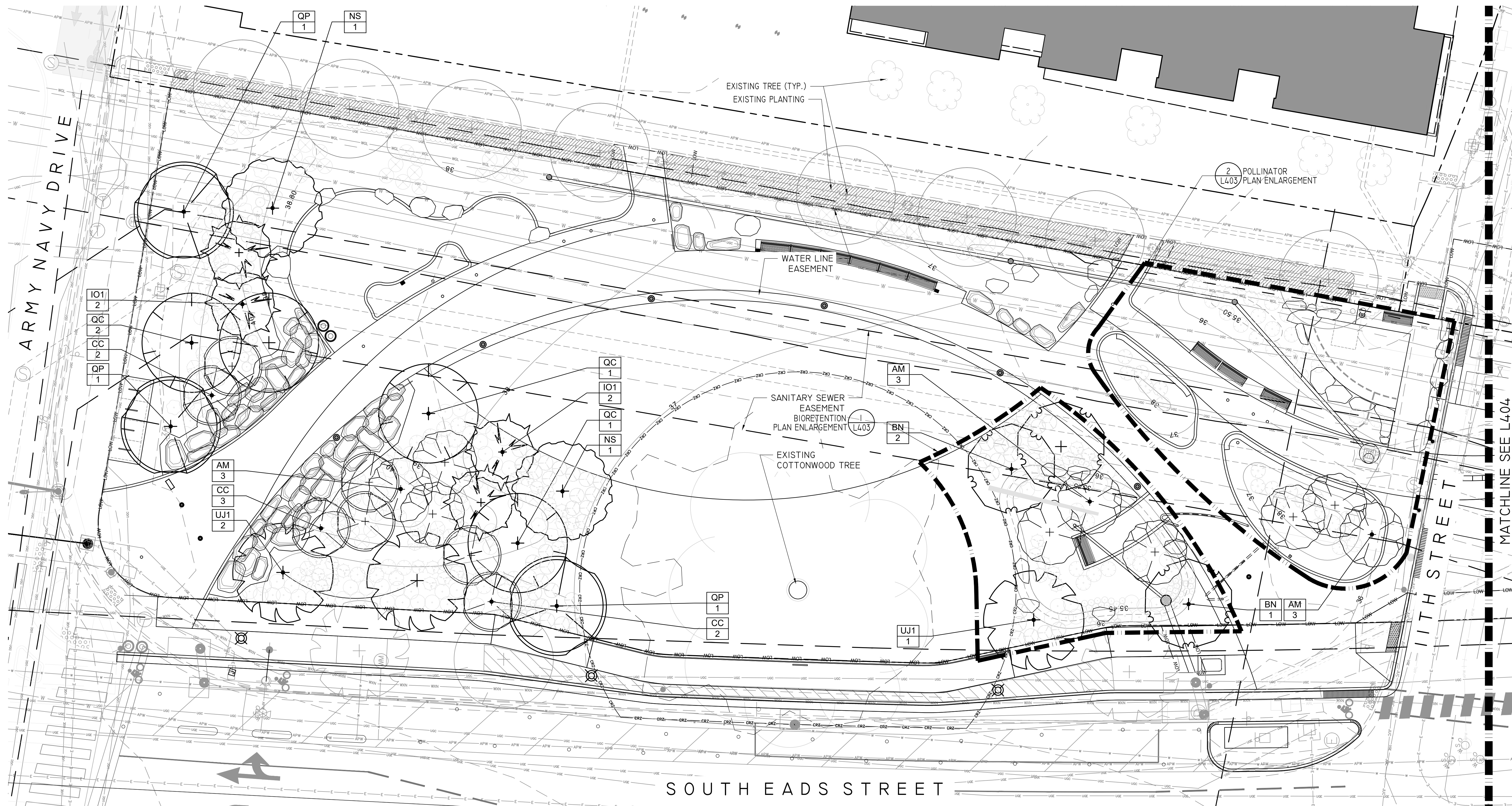
Plotted: _____

Scale: AS SHOWN

Date: 04/20/2023

Seal





1 NORTH PARCEL OVERSTORY PLANTING PLAN
1" = 10' - 0"

- NOTE:
1. STREET TREE PLANTING ALONG SOUTH EADS STREET IS PART OF SOUTH EADS ROADWAY IMPROVEMENTS BETWEEN ARMY NAVY DR. AND 12TH ST S PROJECT
 2. DISTURBED SOILS TO HAVE SOIL REBUILDING PER 02910 PLANT PREPARATION - SOIL PREPARATION. REFER TO SHEET L413.
 3. SOIL PROFILE REBUILDING AREAS CAN BE MODIFIED OUTSIDE OF THE TREE PRESERVATION ZONE TO SUPPORT THE URBAN FORESTER TREE PRESERVATION RECOMMENDATIONS.



DEPARTMENT OF PARKS AND RECREATION
Park Development Division
2100 Clarendon Boulevard, Suite 414
Arlington, VA 22201
Phone: 703.228.3332
Fax: 703.228.3328

ITB #23-DPR-ITBPW-450

#SWM 22-0224

Project Name and Location
ARLINGTON JUNCTION PARK

FINAL PLAN

1051 SOUTH EADS STREET
ARLINGTON, VIRGINIA

Sheet Title
PLANTING PLAN - NORTH PARCEL OVERSTORY

Approval _____ Date _____
Design Supervisor _____

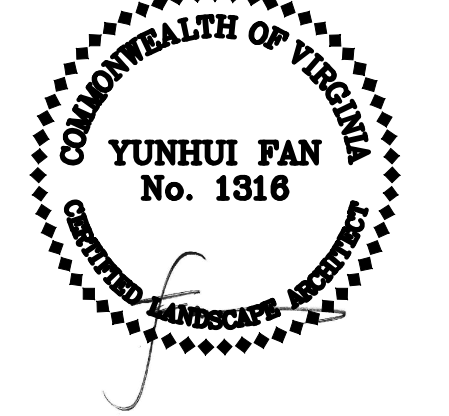
Revisions	Date
CEP#1	7/15/2021
CEP#2	12/21/2023
BUILDING PERMIT	02/15/2023
REVISED BUILDING PERMIT	04/20/2023
CEP #4	7/20/2023

Designed: _____
Drawn: JC, SM
Checked: SM, CF

Filename: _____
Plotted: _____

Scale: AS SHOWN
Date: 04/20/2023

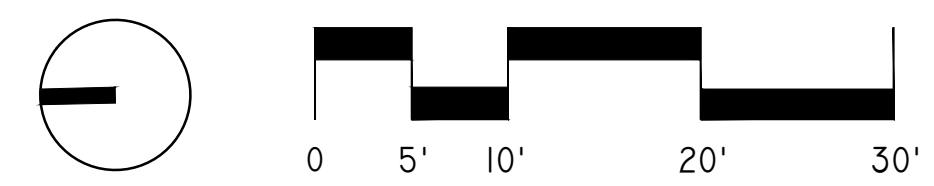
Seal



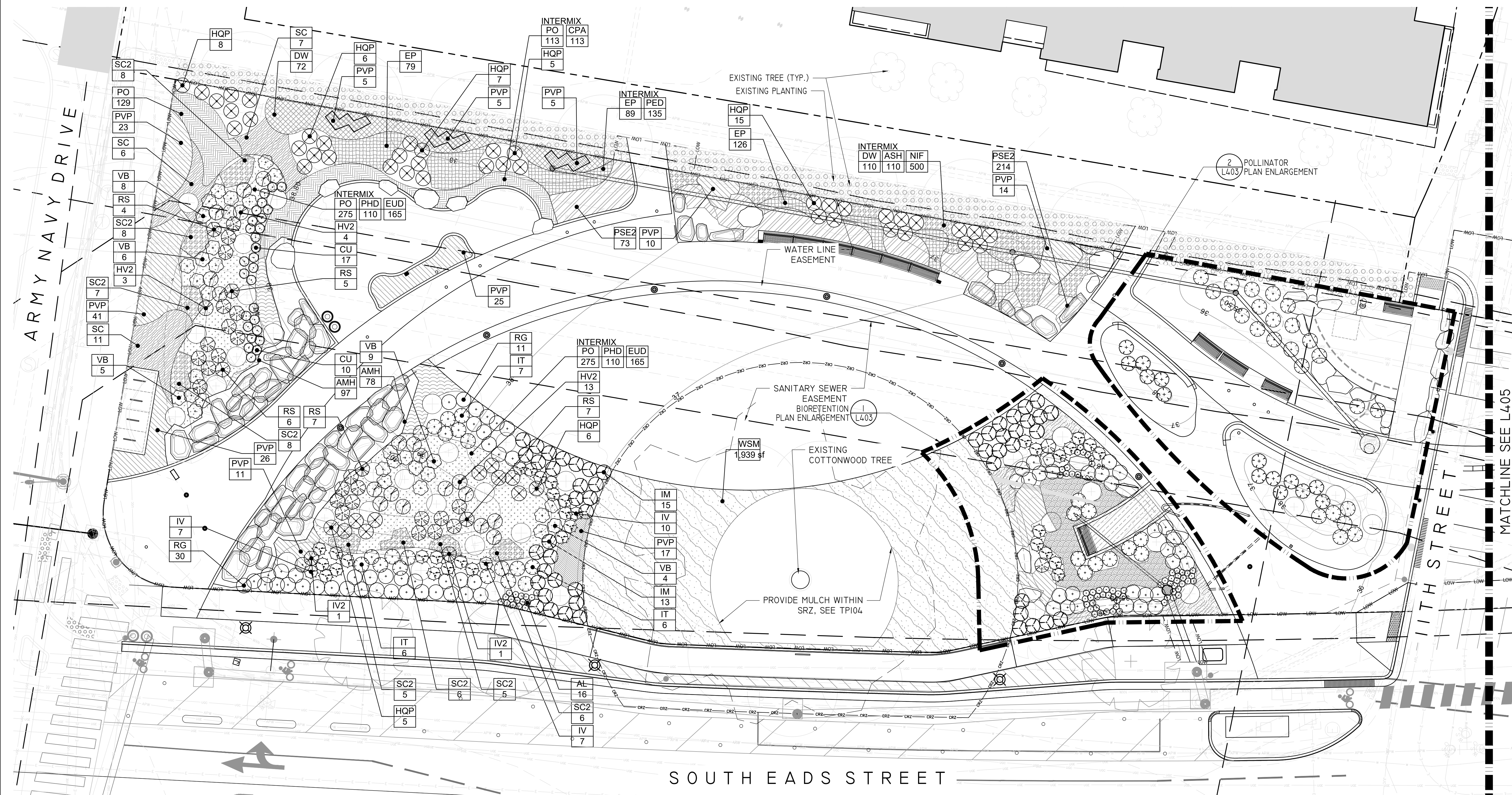
ARLINGTON COUNTY, VIRGINIA
DEPARTMENT OF ENVIRONMENTAL SERVICES

PLANTING PLAN - NORTH PARCEL OVERSTORY
ARLINGTON JUNCTION PARK-CIVIL ENGINEERING PLAN
1051 SOUTH EADS STREET
ARLINGTON COUNTY, VA

SCALE: AS SHOWN SHEET L401

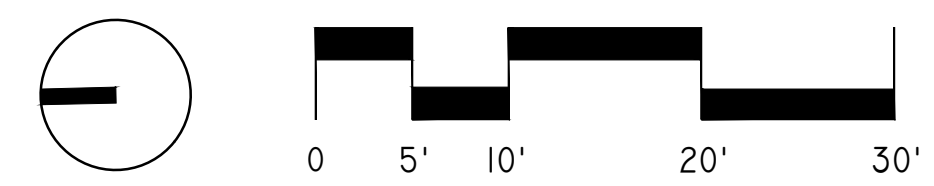


Sheet **L401**



1 NORTH PARCEL UNDERSTORY PLANTING PLAN
 1" = 10' - 0"

- NOTE:
1. DISTURBED SOILS TO HAVE SOIL REBUILDING PER 02910 PLANT PREPARATION - SOIL PREPARATION. REFER TO SHEET L413.
 2. SOIL PROFILE REBUILDING AREAS CAN BE MODIFIED OUTSIDE OF THE TREE PRESERVATION ZONE TO SUPPORT THE URBAN FORESTER TREE PRESERVATION RECOMMENDATIONS.



DEPARTMENT OF PARKS AND RECREATION
 Park Development Division
 2100 Clarendon Boulevard, Suite 414
 Arlington, VA 22201
 Phone: 703.228.3332
 Fax: 703.228.3328

ITB #23-DPR-ITBPW-450

#SWM 22-0224

Project Name and Location
ARLINGTON JUNCTION PARK

FINAL PLAN

1051 SOUTH EADS STREET
 ARLINGTON, VIRGINIA

Sheet Title
PLANTING PLAN - NORTH PARCEL UNDERSTORY

Approval _____ Date _____
 Design Supervisor _____

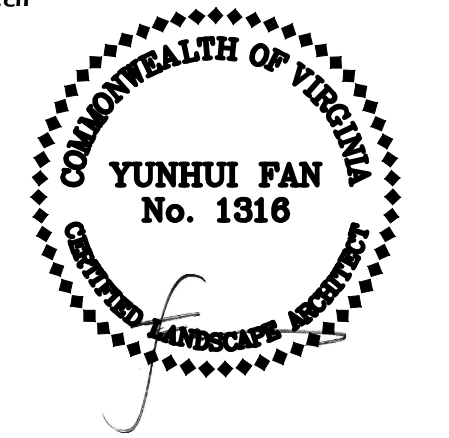
Revisions	Date
CEP#1	7/15/2021
CEP#2	12/21/2023
BUILDING PERMIT	02/15/2023
REVISED BUILDING PERMIT	04/20/2023
CEP #4	7/20/2023

Designed: _____
 Drawn: JC, SM
 Checked: SM, CF

Filename: _____
 Plotted: _____

Scale: AS SHOWN
 Date: 04/20/2023

Seal



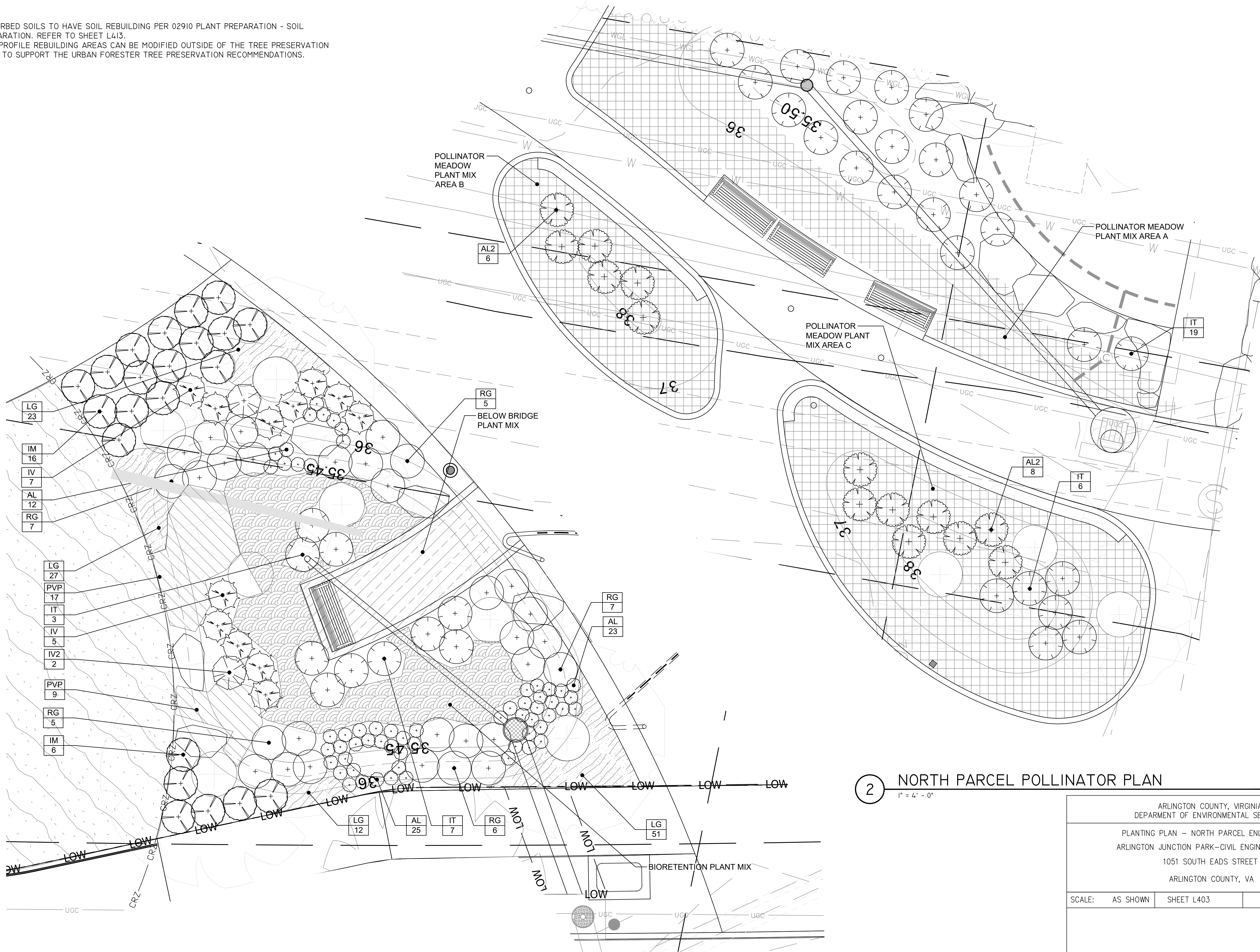
ARLINGTON COUNTY, VIRGINIA
 DEPARTMENT OF ENVIRONMENTAL SERVICES
 PLANTING PLAN - NORTH PARCEL UNDERSTORY
 ARLINGTON JUNCTION PARK-CIVIL ENGINEERING PLAN
 1051 SOUTH EADS STREET
 ARLINGTON COUNTY, VA

SCALE: AS SHOWN SHEET L402

Sheet **L402**

NOTE:

1. DISTURBED SOILS TO HAVE SOIL REBUILDING PER 02910 PLANT PREPARATION - SOIL PREPARATION. REFER TO SHEET L413.
2. SOIL PROFILE REBUILDING AREAS CAN BE MODIFIED OUTSIDE OF THE TREE PRESERVATION ZONE TO SUPPORT THE URBAN FORESTER TREE PRESERVATION RECOMMENDATIONS.



1 NORTH PARCEL BIORETENTION PLAN
1" = 4' - 0"

2 NORTH PARCEL POLLINATOR PLAN
1" = 4' - 0"

ARLINGTON COUNTY, VIRGINIA
DEPARTMENT OF ENVIRONMENTAL SERVICES

PLANTING PLAN - NORTH PARCEL ENLARGEMENTS
ARLINGTON JUNCTION PARK-CIVIL ENGINEERING PLAN
1051 SOUTH EADS STREET
ARLINGTON COUNTY, VA

SCALE: AS SHOWN	SHEET L403	
-----------------	------------	--



DEPARTMENT OF PARKS
AND RECREATION

Park Development Division
2100 Clarendon Boulevard, Suite 414
Arlington, VA 22201
Phone: 703.228.3332
Fax: 703.228.3328

ITB #23-DPR-ITBPW-450

#SWM 22-0224

Project Name and Location
**ARLINGTON
JUNCTION PARK**

FINAL PLAN

1051 SOUTH EADS STREET
ARLINGTON, VIRGINIA

Sheet Title
**PLANTING
PLAN - NORTH
PARCEL
ENLARGEMENTS**

Approval _____ Date _____
Design Supervisor _____

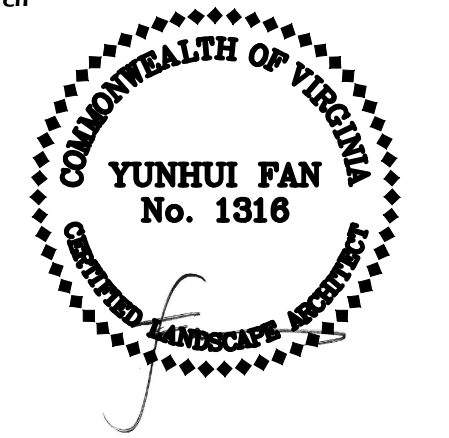
Revisions	Date
CEP#1	7/15/2021
CEP#2	12/21/2023
BUILDING PERMIT	02/15/2023
REVISED BUILDING PERMIT	04/20/2023
CEP #4	7/20/2023

Designed: _____
Drawn: JC, SM
Checked: SM, CF

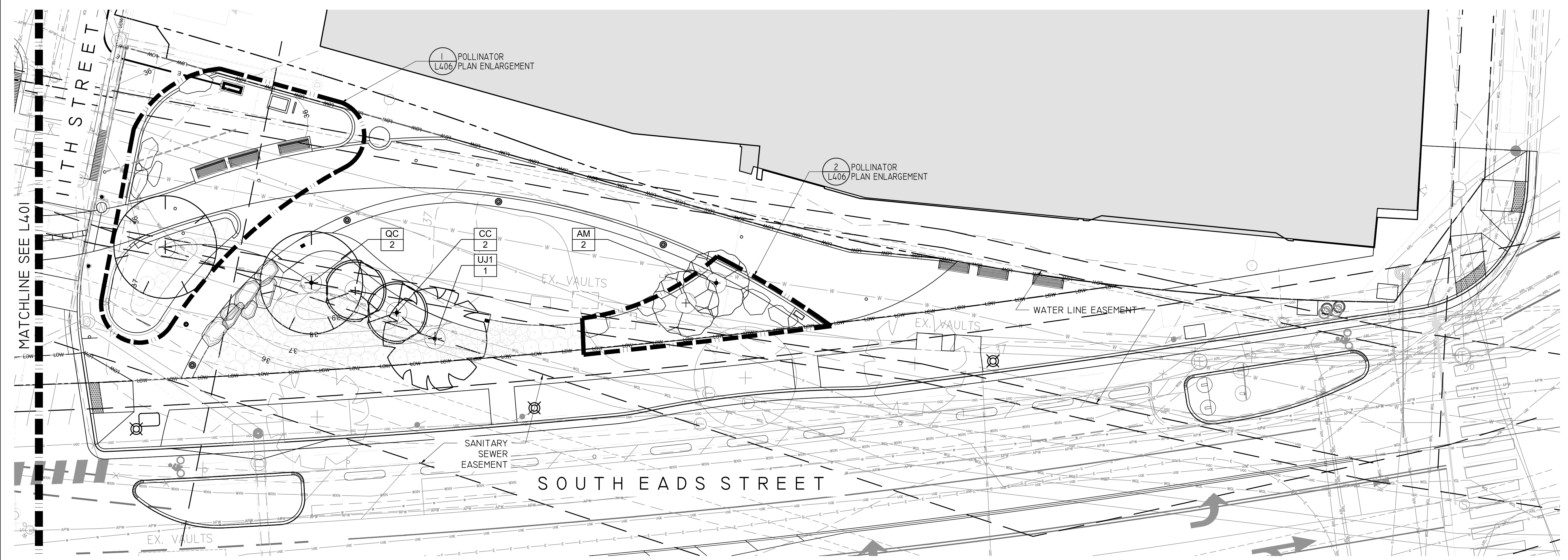
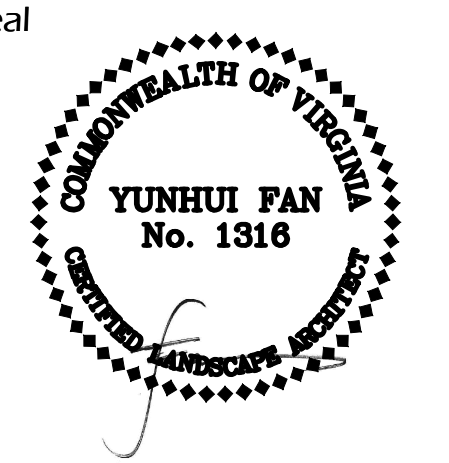
Filename: _____
Plotted: _____

Scale: AS SHOWN
Date: 04/20/2023

Seal

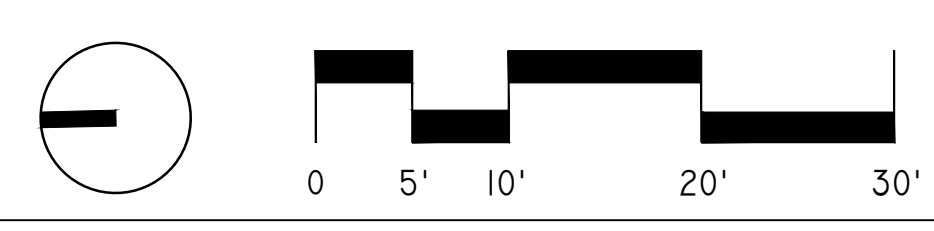


Sheet **L403**



1 SOUTH PARCEL OVERSTORY PLANTING PLAN
1" = 10' - 0"

- NOTE:
1. STREET TREE PLANTING ALONG SOUTH EADS STREET IS PART OF SOUTH EADS ROADWAY IMPROVEMENTS BETWEEN ARMY NAVY DR. AND 12TH ST S PROJECT
 2. DISTURBED SOILS TO HAVE SOIL REBUILDING PER 02910 PLANT PREPARATION - SOIL PREPARATION. REFER TO SHEET L413.
 3. SOIL PROFILE REBUILDING AREAS CAN BE MODIFIED OUTSIDE OF THE TREE PRESERVATION ZONE TO SUPPORT THE URBAN FORESTER TREE PRESERVATION RECOMMENDATIONS.



ARLINGTON COUNTY, VIRGINIA DEPARTMENT OF ENVIRONMENTAL SERVICES	
PLANTING PLAN - SOUTH PARCEL OVERSTORY ARLINGTON JUNCTION PARK-CIVIL ENGINEERING PLAN 1051 SOUTH EADS STREET ARLINGTON COUNTY, VA	
SCALE: AS SHOWN	SHEET L404

ITB #23-DPR-ITBPW-450

#SWM 22-0224

Project Name and Location
**ARLINGTON
JUNCTION PARK**

FINAL PLAN

1051 SOUTH EADS STREET
ARLINGTON, VIRGINIA

Sheet Title
**PLANTING
PLAN - SOUTH
PARCEL
UNDERSTORY**

Approval _____ Date _____
Design Supervisor _____

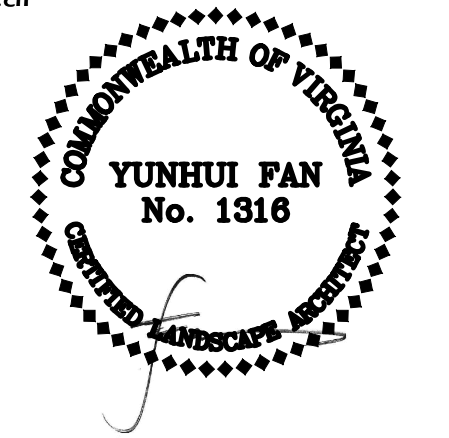
Revisions	Date
CEP#1	7/15/2021
CEP#2	12/21/2023
BUILDING PERMIT	02/15/2023
REVISED BUILDING PERMIT	04/20/2023
CEP #4	7/20/2023

Designed:
Drawn: JC, SM
Checked: SM, CF

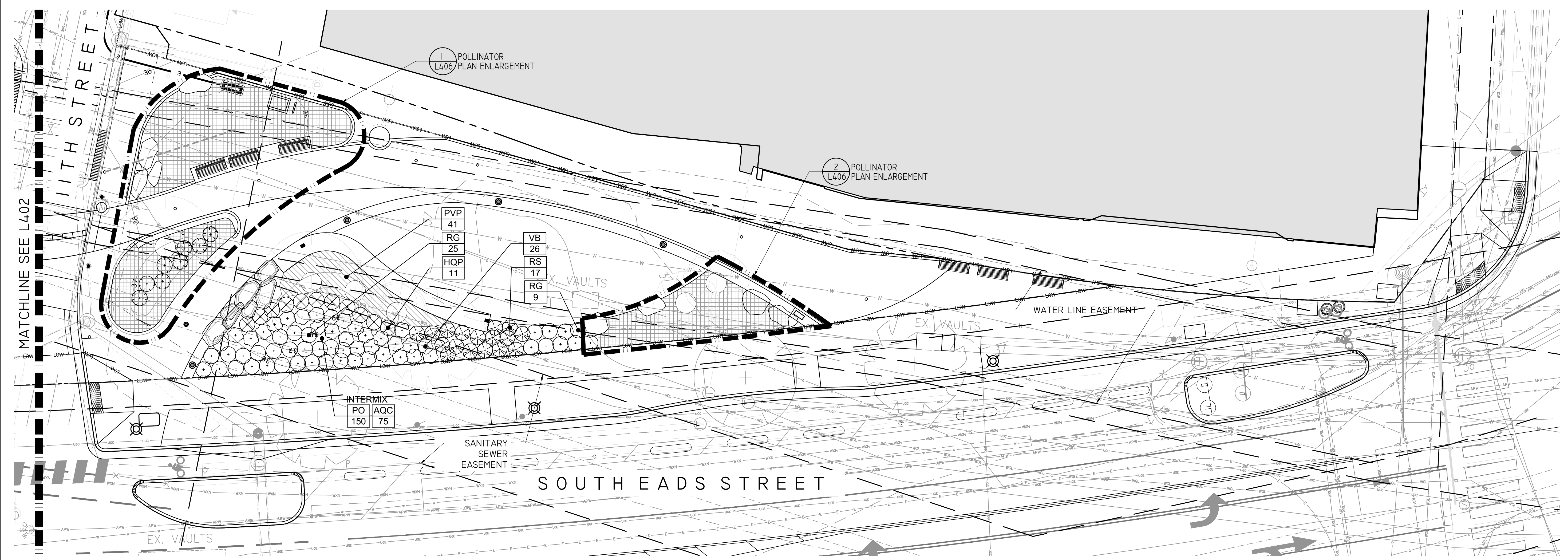
Filename:
Plotted:

Scale: AS SHOWN
Date: 04/20/2023

Seal

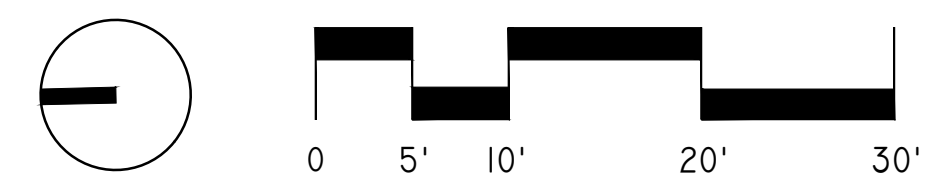


Sheet **L405**

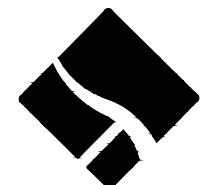


1 SOUTH PARCEL UNDERSTORY PLANTING PLAN
1" = 10' - 0"

- NOTE:
- DISTURBED SOILS TO HAVE SOIL REBUILDING PER 02910 PLANT PREPARATION - SOIL PREPARATION. REFER TO SHEET L413.
 - SOIL PROFILE REBUILDING AREAS CAN BE MODIFIED OUTSIDE OF THE TREE PRESERVATION ZONE TO SUPPORT THE URBAN FORESTER TREE PRESERVATION RECOMMENDATIONS.



ARLINGTON COUNTY, VIRGINIA DEPARTMENT OF ENVIRONMENTAL SERVICES	
PLANTING PLAN - SOUTH PARCEL UNDERSTORY ARLINGTON JUNCTION PARK-CIVIL ENGINEERING PLAN 1051 SOUTH EADS STREET ARLINGTON COUNTY, VA	
SCALE: AS SHOWN	SHEET L405



ARLINGTON VIRGINIA

DEPARTMENT OF PARKS AND RECREATION

Park Development Division
2100 Clarendon Boulevard, Suite 414
Arlington, VA 22201
Phone: 703.228.3332
Fax: 703.228.3328

ITB #23-DPR-ITBPW-450

#SWM 22-0224

Project Name and Location
ARLINGTON JUNCTION PARK

FINAL PLAN

1051 SOUTH EADS STREET
ARLINGTON, VIRGINIA

Sheet Title
PLANTING PLAN - SOUTH PARCEL ENLARGEMENTS

Approval _____ Date _____
Design Supervisor _____

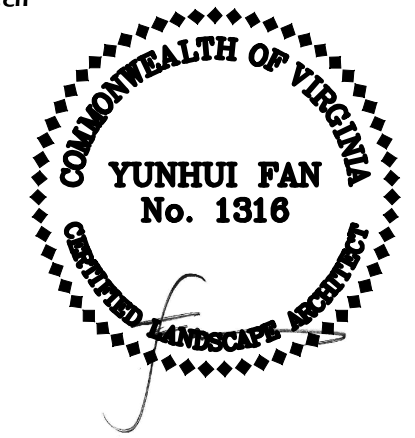
Revisions	Date
CEP#1	7/15/2021
CEP#2	12/21/2023
BUILDING PERMIT	02/15/2023
REVISED BUILDING PERMIT	04/20/2023
CEP #4	7/20/2023

Designed: _____
Drawn: JC, SM
Checked: SM, CF

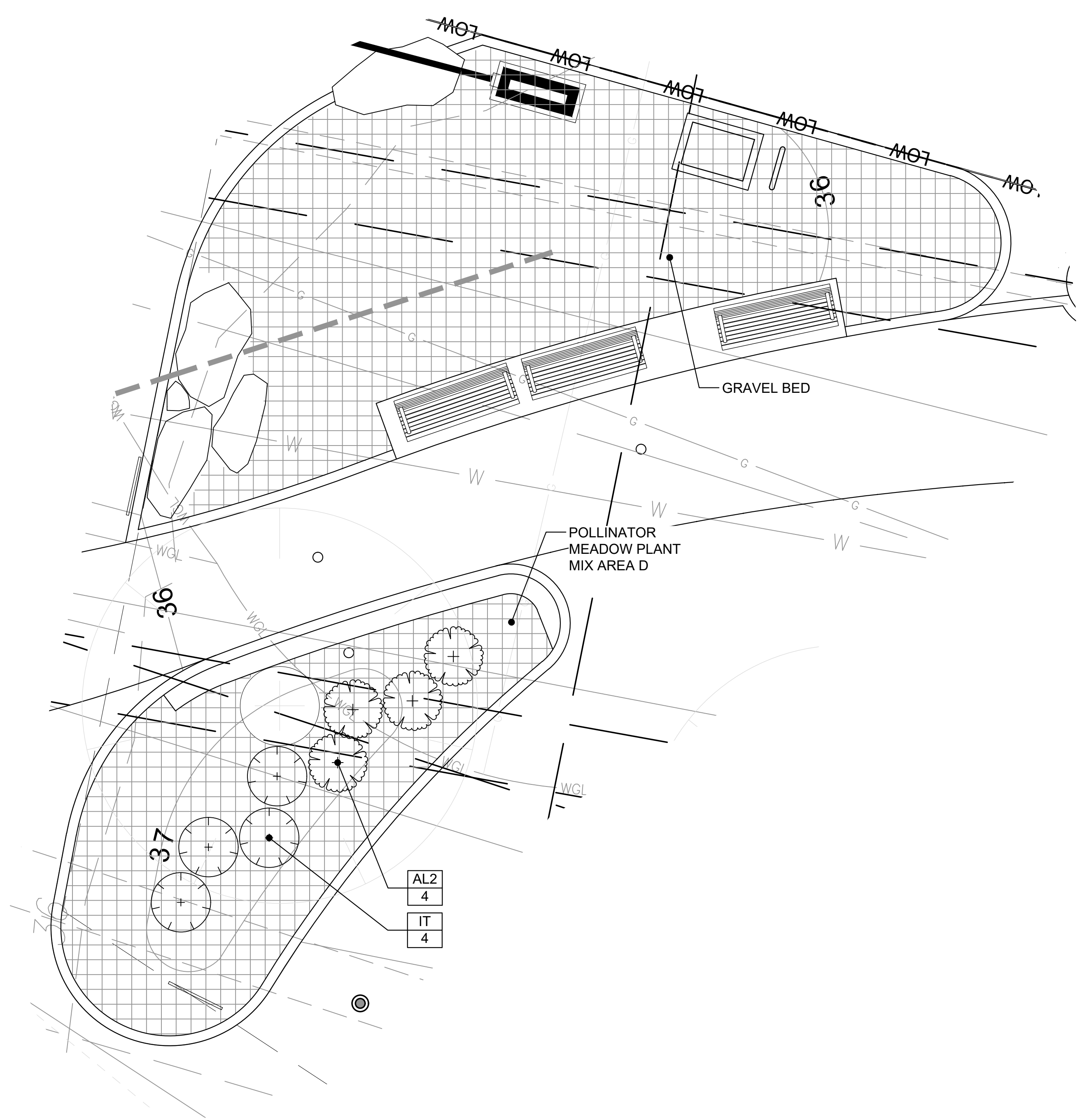
Filename: _____
Plotted: _____

Scale: AS SHOWN
Date: 04/20/2023

Seal

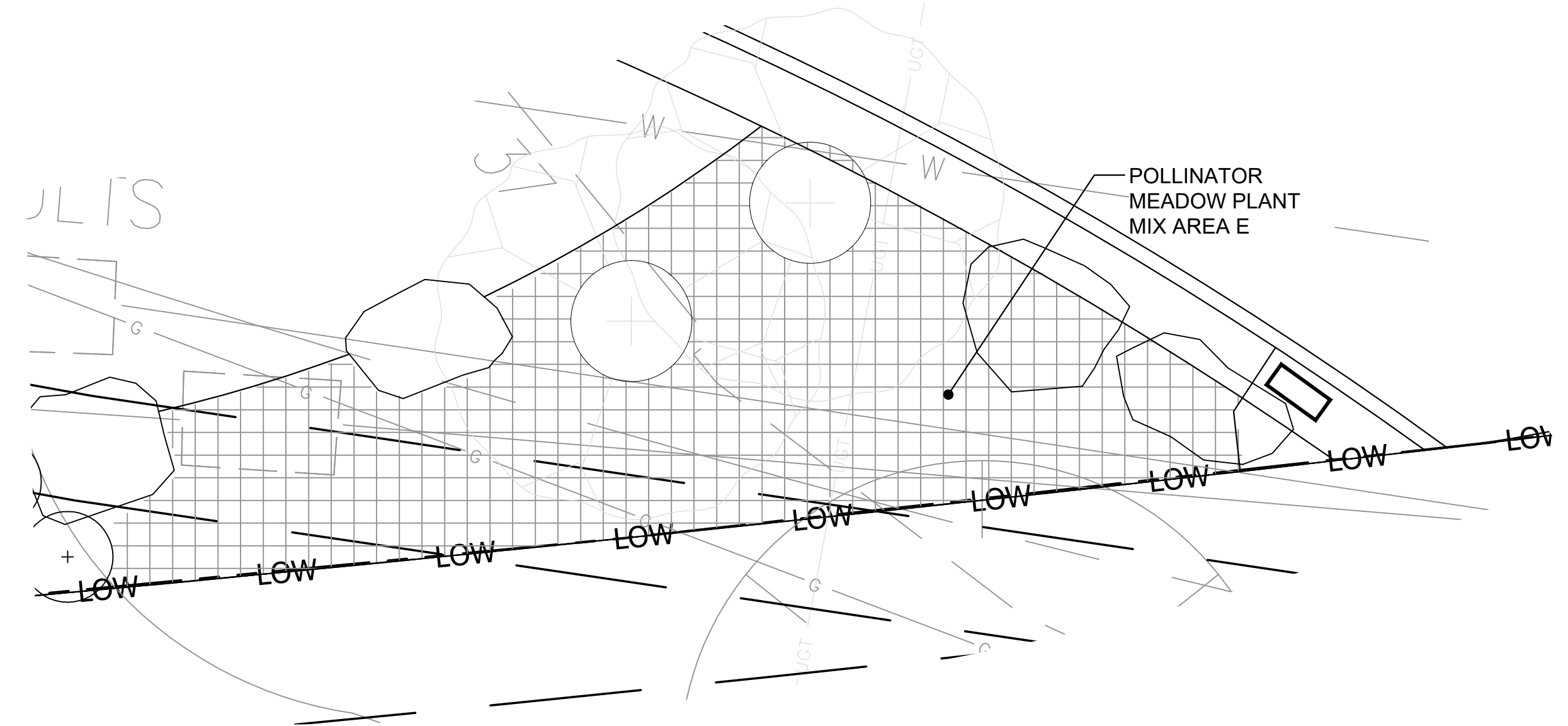


Sheet **L406**

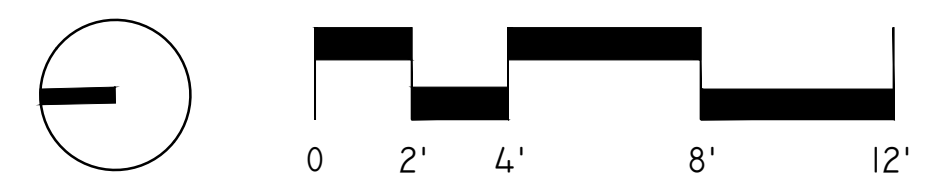


1 SOUTH PARCEL POLLINATOR PLAN
1" = 4' - 0"

- NOTE:
1. DISTURBED SOILS TO HAVE SOIL REBUILDING PER 02910 PLANT PREPARATION - SOIL PREPARATION. REFER TO SHEET L413.
 2. SOIL PROFILE REBUILDING AREAS CAN BE MODIFIED OUTSIDE OF THE TREE PRESERVATION ZONE TO SUPPORT THE URBAN FORESTER TREE PRESERVATION RECOMMENDATIONS.



2 SOUTH PARCEL POLLINATOR PLAN
1" = 4' - 0"



ARLINGTON COUNTY, VIRGINIA DEPARTMENT OF ENVIRONMENTAL SERVICES	
PLANTING PLAN - SOUTH PARCEL ENLARGEMENTS ARLINGTON JUNCTION PARK-CIVIL ENGINEERING PLAN 1051 SOUTH EADS STREET ARLINGTON COUNTY, VA	
SCALE: AS SHOWN	SHEET L406

NOTES

1. AT PLANTING PRUNE ONLY CROSSING LIMBS, BROKEN OR DEAD BRANCHES, AND ANY BRANCHES THAT POSE A HAZARD TO PEDESTRIANS PER ANSI STANDARD A300. DO NOT PRUNE INTO OLD WOOD ON EVERGREENS.

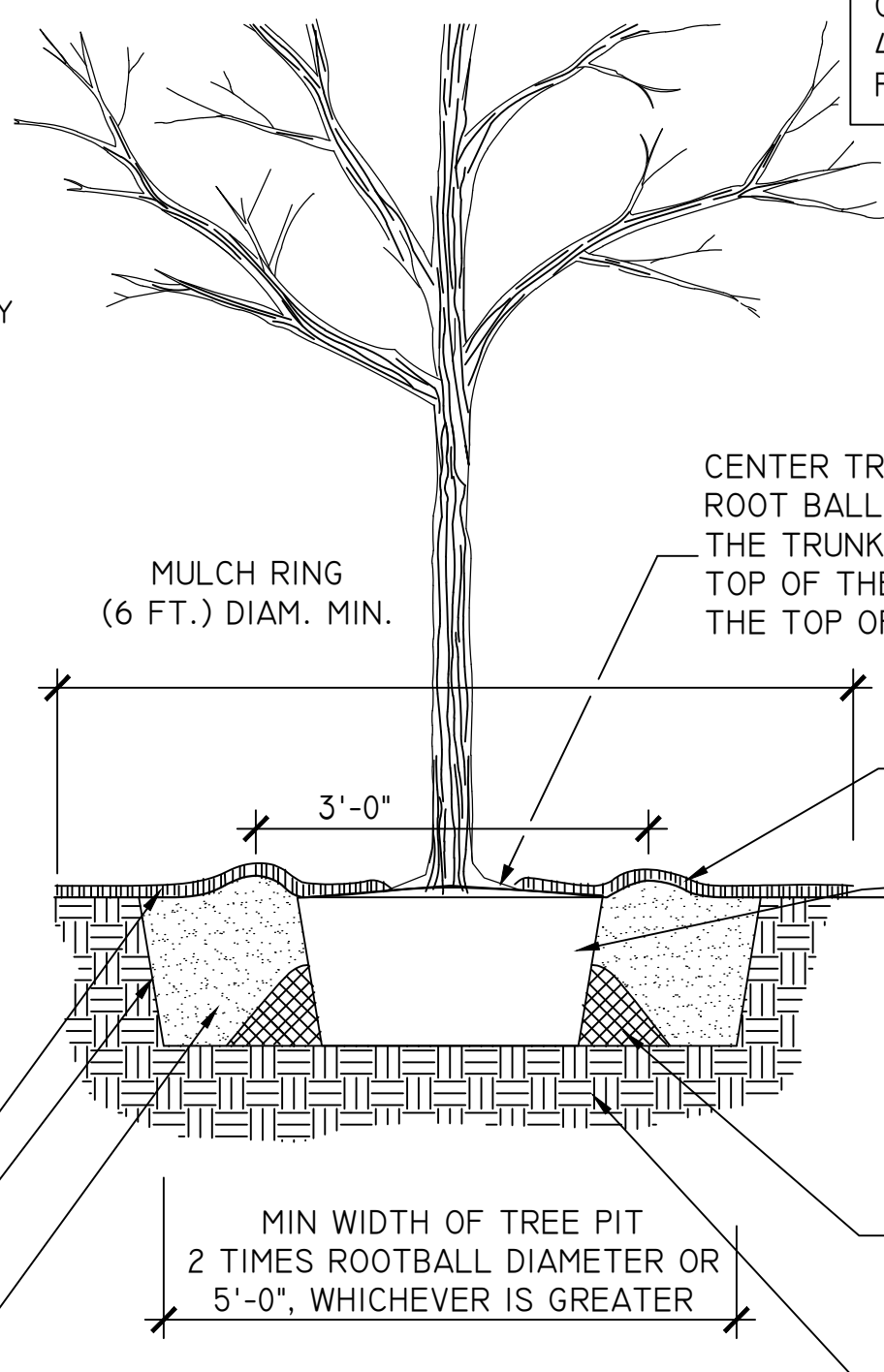
2. CONTRACTOR SHALL MAXIMIZE EXCAVATED AREA FOR TREE PIT WITHOUT ADVERSELY IMPACTING ADJACENT SITE FEATURES.

3. UNLESS OTHERWISE DIRECTED BY ARLINGTON COUNTY URBAN FORESTER, BACKFILL SOIL MIXTURE WILL BE 3/4 EXISTING SOIL CLEANED OF DEBRIS (GRAVEL, ROCKS, STICKS, TRASH, ETC.) AND MIXED WITH 1/4 ORGANIC MATERIAL (COMPOSTED BARK, LEAF MOLD, OR OTHER PLANT DEBRIS PROCESSED TO A POINT OF DECAY AND APPROVED BY THE URBAN FORESTER; PEAT MOSS SHALL NOT BE USED).

4. CONTRACTOR SHALL LEGALLY REMOVE EXCESS SOIL & DEBRIS FROM SITE.

5. TREES PLANTED WITHOUT THE TRUNK FLARE VISIBLE WILL BE REJECTED.

6. TREES MAY ONLY BE STAKED IF REQUIRED BY THE COUNTY URBAN FORESTER. REFER TO STAKING DETAILS.



ALL PLANTS MUST BE WATERED TWICE: ONCE AT INSTALLATION AND AGAIN WITHIN 48-HOURS OF INSTALLATION, PER THE SPECIFICATIONS.

THIS DETAIL SUPERSEDES ALL OTHER TREE PLANTING DETAILS IN ARLINGTON COUNTY.

NOTES

1. AT PLANTING PRUNE ONLY BROKEN OR DEAD BRANCHES PER ANSI 300 STANDARD.

2. PLANTING PIT/TRENCH SHALL BE DUG DEEP ENOUGH TO ALLOW AT LEAST 1/8TH OF ROOT BALL TO SET ABOVE EXISTING GRADE.

3. SET PLANTS IN ERECT, STABLE, AND UNIFORM POSITIONS IN THE CENTER OF THE PLANTING PIT. ORIENT BEST FACE OF PLANT TO BE THE MOST VISIBLE.

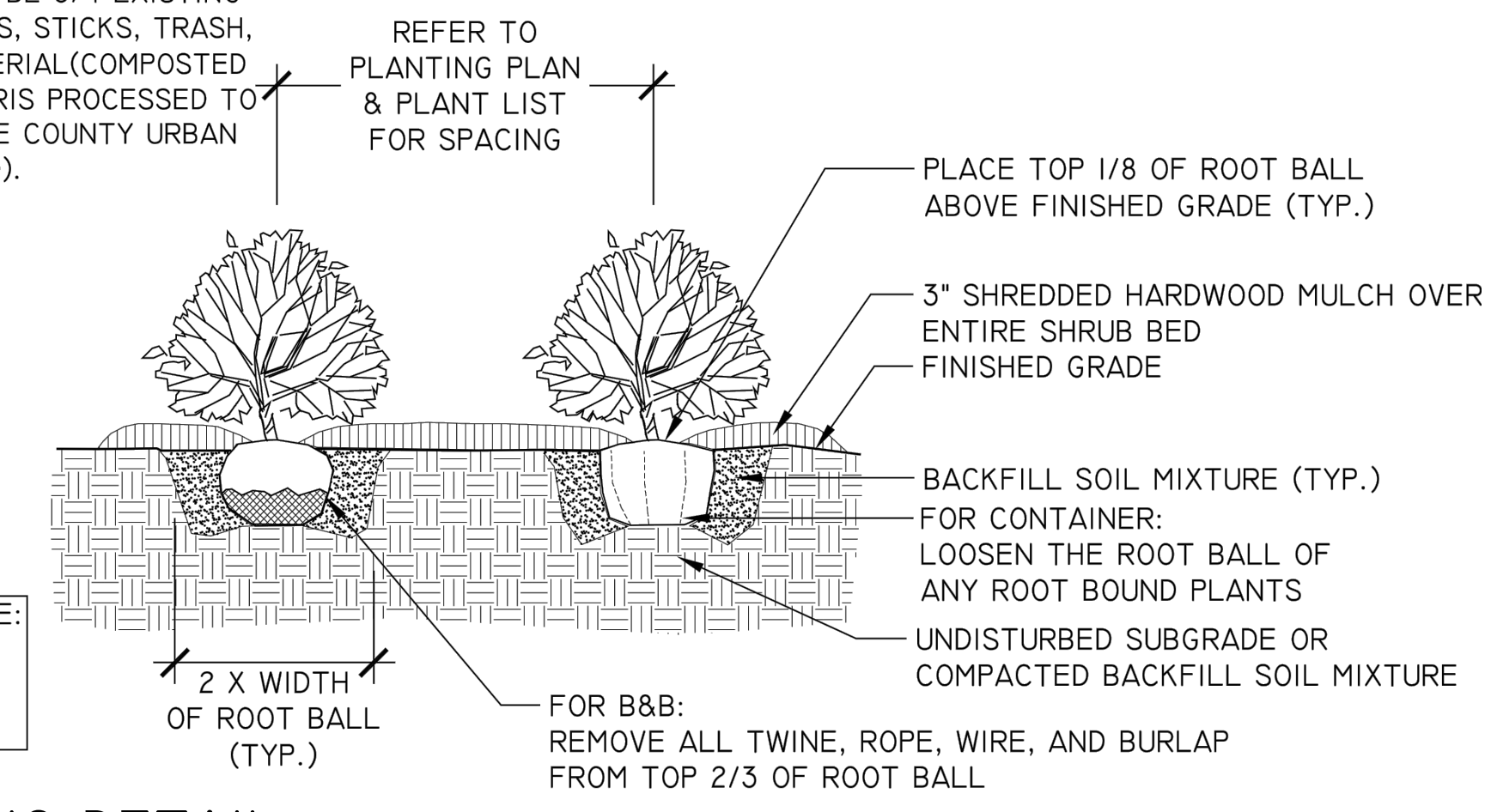
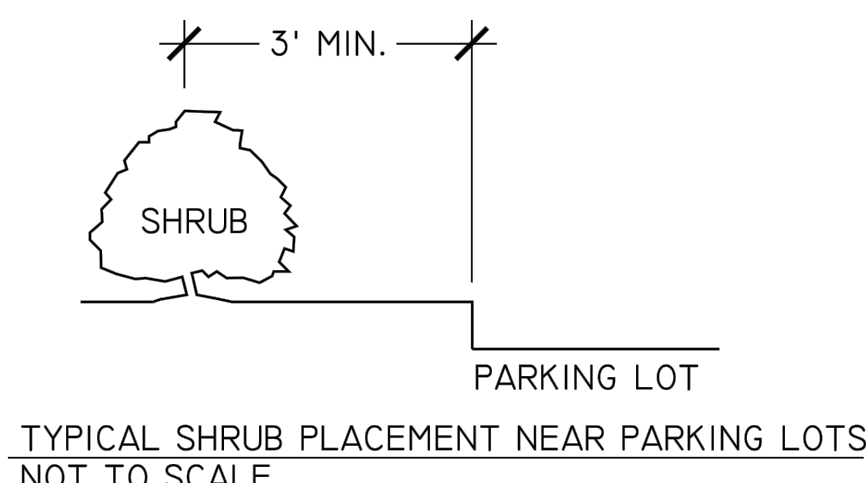
4. UNLESS OTHERWISE DIRECTED BY COUNTY URBAN FORESTER, BACKFILL SOIL MIXTURE WILL BE 3/4 EXISTING SOIL CLEANED OF DEBRIS (GRAVEL, ROCKS, STICKS, TRASH, ETC.) AND MIXED WITH 1/4 ORGANIC MATERIAL (COMPOSTED BARK, LEAF MOLD, OR OTHER PLANT DEBRIS PROCESSED TO A POINT OF DECAY AND APPROVED BY THE COUNTY URBAN FORESTER. PEAT MOSS MAY NOT BE USED).

5. CONTRACTOR SHALL REMOVE EXCESS SOIL & DEBRIS FROM SITE.

6. DO NOT PLACE MULCH IN CONTACT WITH STEM OF SHRUBS

THIS DETAIL SUPERSEDES ALL OTHER SHRUB PLANTING DETAILS IN ARLINGTON COUNTY.

ALL PLANTS MUST BE WATERED TWICE: ONCE AT INSTALLATION AND AGAIN WITHIN 48-HOURS OF INSTALLATION, PER THE SPECIFICATIONS.



1 TREE PLANTING DETAIL

NTS

NOTES

1. AT PLANTING PRUNE ONLY BROKEN OR DEAD BRANCHES PER ANSI 300 STANDARD.

2. PLANTING PIT/TRENCH SHALL BE DUG DEEP ENOUGH TO ALLOW AT LEAST 1/8TH OF ROOT BALL TO SET ABOVE EXISTING GRADE.

3. SET PLANTS IN ERECT, STABLE, AND UNIFORM POSITIONS. ORIENT BEST FACE OF PLANT TO BE THE MOST VISIBLE.

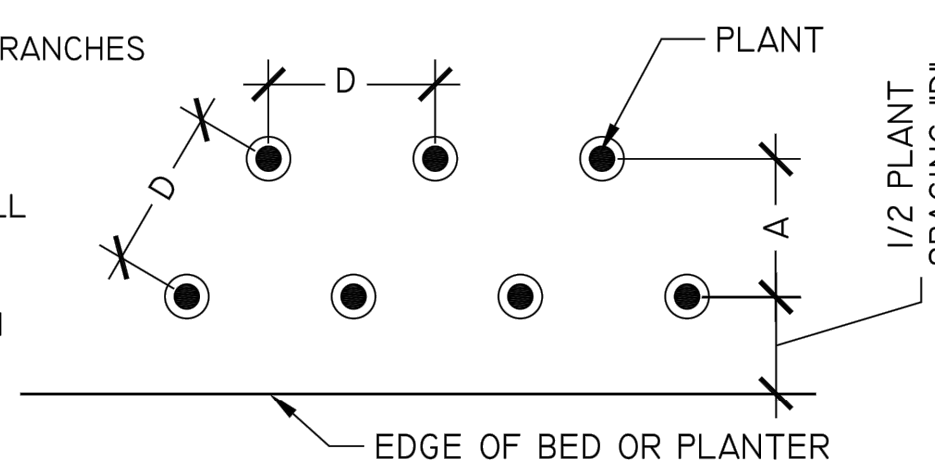
4. GROUND COVERS AND PERENNIALS SHALL BE INSTALLED WITH TRIANGULAR SPACING. REFER TO CHART.

4. UNLESS OTHERWISE DIRECTED BY PROJECT SPECIFICATIONS OR COUNTY URBAN FORESTER, BACKFILL SOIL MIXTURE WILL BE 3/4 EXISTING SOIL CLEANED OF DEBRIS (GRAVEL, ROCKS, STICKS, TRASH, ETC.) AND MIXED WITH 1/4 ORGANIC MATERIAL (COMPOSTED BARK, LEAF MOLD, OR OTHER PLANT DEBRIS PROCESSED TO A POINT OF DECAY AND APPROVED BY THE COUNTY URBAN FORESTER; PEAT MOSS SHALL NOT BE USED).

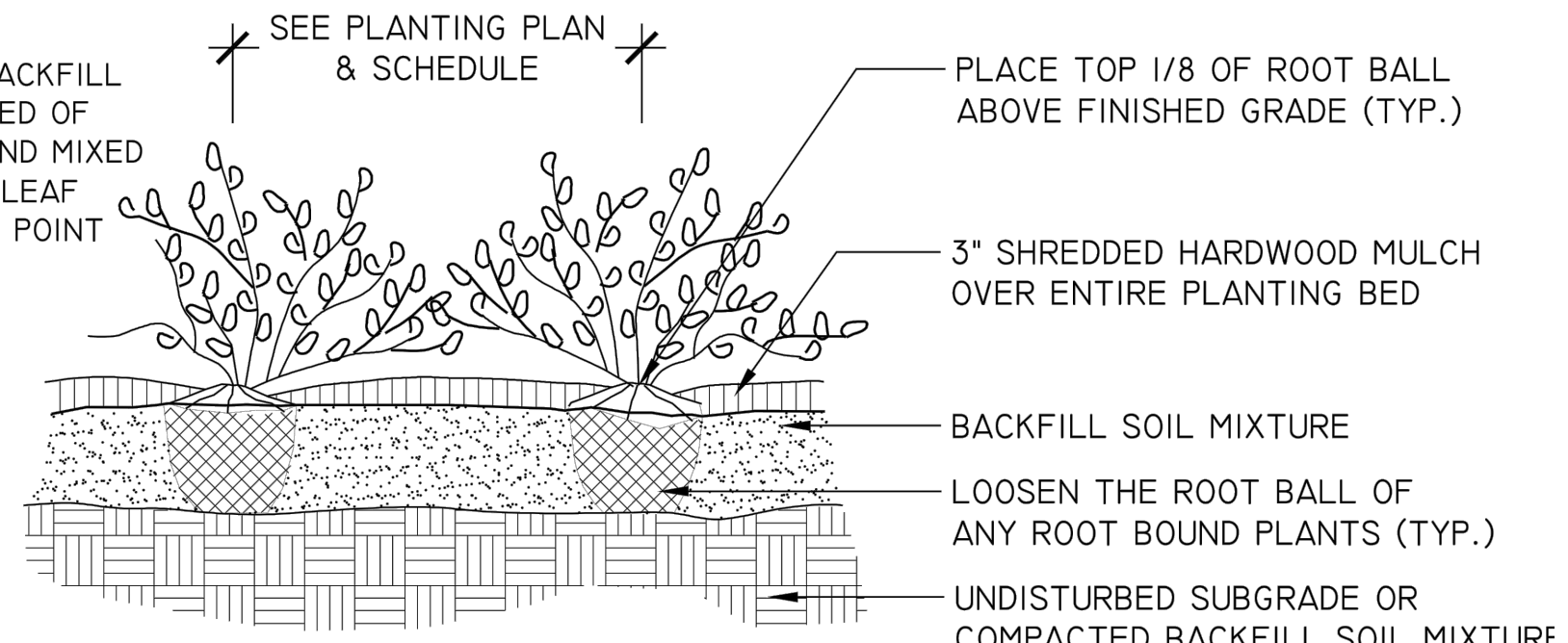
5. CONTRACTOR SHALL REMOVE EXCESS SOIL & DEBRIS FROM SITE.

6. DO NOT PLACE MULCH IN CONTACT WITH STEM OF PLANTS.

ALL PLANTS MUST BE WATERED TWICE: ONCE AT INSTALLATION AND AGAIN WITHIN 48-HOURS OF INSTALLATION, PER THE SPECIFICATIONS.



PLANT SPACING "D" O.C.	ROW "A" O.C.	PLANTS PER S.F.
6"	5"	4.00
8"	7"	2.25
9"	8"	1.77
12"	10"	1.00
15"	13"	0.77
18"	16"	0.44



THIS DETAIL SUPERSEDES ALL OTHER GROUND COVER PLANTING DETAILS IN ARLINGTON COUNTY.

3 GROUND COVERS & PERENNIAL PLANTING DETAIL

NTS

NOTE:

- STREET TREE PLANTING ALONG SOUTH EADS STREET IS PART OF SOUTH EADS ROADWAY IMPROVEMENTS BETWEEN ARMY NAVY DR. AND I2TH ST S PROJECT
- DISTURBED SOILS TO HAVE SOIL REBUILDING PER 02910 PLANT PREPARATION - SOIL PREPARATION. REFER TO SHEET L413.
- SOIL PROFILE REBUILDING AREAS CAN BE MODIFIED OUTSIDE OF THE TREE PRESERVATION ZONE TO SUPPORT THE URBAN FORESTER TREE PRESERVATION RECOMMENDATIONS.

2 SHRUB PLANTING DETAIL

NTS

ARLINGTON COUNTY, VIRGINIA
DEPARTMENT OF ENVIRONMENTAL SERVICES

PLANTING DETAILS
ARLINGTON JUNCTION PARK-CIVIL ENGINEERING PLAN
1051 SOUTH EADS STREET
ARLINGTON COUNTY, VA

SCALE: AS SHOWN SHEET L411



DEPARTMENT OF PARKS AND RECREATION

Park Development Division
2100 Clarendon Boulevard, Suite 414
Arlington, VA 22201
Phone: 703.228.3332
Fax: 703.228.3328

ITB #23-DPR-ITBPW-450

#SWM 22-0224

Project Name and Location
ARLINGTON JUNCTION PARK

FINAL PLAN

1051 SOUTH EADS STREET
ARLINGTON, VIRGINIA

Sheet Title
PLANTING DETAILS

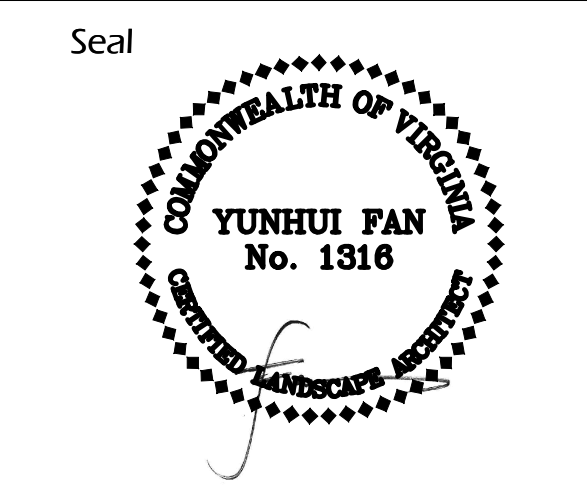
Approval _____ Date _____
Design Supervisor _____

Revisions	Date
CEP#1	7/15/2021
CEP#2	12/21/2023
BUILDING PERMIT	02/15/2023
REVISED BUILDING PERMIT	04/20/2023
CEP #4	7/20/2023

Designed:
Drawn: JC, SM
Checked: SM, CF

Filename:
Plotted:

Scale: AS SHOWN
Date: 04/20/2023



Sheet **L411**

PLANT SCHEDULE

CANOPY TREES	QTY	BOTANICAL NAME	COMMON NAME	SIZE	TYPE	SPACING	REMARKS
BN	3	BETULA NIGRA 'DURA HEAT'	DURA HEAT RIVER BIRCH	8-10' HT.	B&B	AS SHOWN	MULTI-STEM, 3 STEMS MIN.
NS	2	NYSSA SYLVATICA 'WILDFIRE'	SOUR GUM	2' CAL	B&B	AS SHOWN	BALANCED, STRONG CENTRAL LEADER
QC	6	QUERCUS COCCINEA	SCARLET OAK	2' CAL	B&B	AS SHOWN	MATCHED SPECIMENS, FULL BALANCED CANOPY
QP	3	QUERCUS PHELLOS 'QPSTJ'	WILLOW OAK ASCENDOR	2' CAL	B & B	AS SHOWN	MATCHED SPECIMENS, FULL BALANCED CANOPY, PROVIDE FROM SELECT TREES
UJ1	4	ULMUS AMERICANA 'JEFFERSON'	JEFFERSON AMERICAN ELM	2' CAL	B&B	AS SHOWN	MATCHED SPECIMENS, FULL BALANCED CANOPY, PROVIDE FROM SELECT TREES

EVERGREEN TREES	QTY	BOTANICAL NAME	COMMON NAME	SIZE	TYPE	SPACING	REMARKS
IO1	4	ILEX OPACA	AMERICAN HOLLY	8-10' HT.	B&B	AS SHOWN	FULL TO GROUND

ORNAMENTAL TREES	QTY	BOTANICAL NAME	COMMON NAME	SIZE	TYPE	SPACING	REMARKS
AM	11	AMELANCHIER LAEVIS 'SNOWCLOUD'	SNOWCLOUD ALLEGHENY SERVICEBERRY	6-8' HT	B&B	AS SHOWN	3-5 STEMS, MATCHING SPECIMEN
CC	9	CERCIS CANADENSIS	EASTERN REDBUD	6-8' HT	B&B	AS SHOWN	SINGLE STEM, FULL AND WELL BALANCED

SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	TYPE	SPACING	REMARKS
AL2	18	AMORPHA CANESCENS	LEADPLANT	1 GAL	CONT.	AS SHOWN	HEAVY, FULL TO GROUND
AL	76	ARONIA MELANOCARPA 'LOW SCAPE MOUND'	LOW SCAPE MOUND BLACK CHOKEBERRY	1 GAL	CONT.	15" O.C.	HEAVY, FULL TO GROUND
CU	27	CLETHRA ALNIFOLIA 'HUMMINGBIRD'	SUMMERSWEET	24"HT.	CONT.	24" OC	HEAVY, FULL TO GROUND
HV2	20	HAMAMELIS VIRGINIANA	COMMON WITCH HAZEL	30" - 36" HT.	CONT.	36" O.C.	HEAVY, FULL TO GROUND
HOP	63	HYDRANGEA QUERCIFOLIA 'PEE WEE'	OAKLEAF HYDRANGEA	30-36"HT	CONT.	36" OC	HEAVY, FULL TO GROUND
IM	50	ILEX OPACA 'MARYLAND DWARF'	MARYLAND DWARF AMERICAN HOLLY	1 GAL	CONT.	36" OC	HEAVY, FULL TO GROUND
IV2	4	ILEX VERTICILLATA 'JIM DANDY'	JIM DANDY WINTERBERRY	30" - 36" HT.	CONT.	36" OC	HEAVY, FULL TO GROUND
IV	38	ILEX VERTICILLATA 'RED SPRITE'	RED SPRITE WINTERBERRY	30" - 36" HT.	CONT.	36" OC	HEAVY, FULL TO GROUND
IT	58	ITEA VIRGINICA 'LITTLE HENRY' TM	VIRGINIA SUMMERSWEET	24"HT.	CONT.	36" OC	HEAVY, FULL TO GROUND
RS	46	RHODODENDRON ARBORESCENS	SWEET AZALEA	30" - 36" HT.	CONT.	36" O.C.	HEAVY, FULL TO GROUND
RG	105	RHUS AROMATICA 'GRO-LOW'	GRO-LOW FRAGRANT SUMAC	12" - 18" HT.	CONT.	36" OC	HEAVY, FULL TO GROUND
VB	58	VIBURNUM X BURKWOODII 'CONOY'	CONOY VIBURNUM	30" - 36" HT.	CONT.	36" OC	HEAVY, FULL TO GROUND

GROUND COVERS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	TYPE	SPACING	REMARKS
CPA	113	CAREX PENNSYLVANICA	PENNSYLVANIA SEDGE	1 QT	CONT.	12" OC	FULL AND HEAVY, LOCATE IN FIELD
LG	113	LYSIMACHIA LANCEOLATA 'BURGUNDY MIST'	BURGUNDY MIST LANCELEAF LOOSESTRIFE	1 GAL	CONT.	12" OC	FULL AND HEAVY, LOCATE IN FIELD
PO	942	PACKERA OBOVATA	GOLDEN GROUNDSEL	1 QT	CONT.	12" OC	FULL AND HEAVY, LOCATE IN FIELD
SC2	53	SOLIDAGO CAESIA	WREATH GOLDENROD	1 QT	CONT.	24 OC	FULL AND HEAVY, LOCATE IN FIELD
SC	24	SYMPHORICARPOS X CHENAULTII 'HANCOCK'	HANCOCK CHENAULT CORALBERRY	1 GAL.	CONT.	42" OC.	FULL AND HEAVY, LOCATE IN FIELD

BULBS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	TYPE	SPACING	REMARKS
NIF	500	NARCISSUS 'ICE FOLLIES'	LARGE CUPPED DAFFODIL	TOP SIZE	BULB	12" OC	TOP SIZE

ORNAMENTAL GRASSES	QTY	BOTANICAL NAME	COMMON NAME	SIZE	TYPE	SPACING	REMARKS
PVP	246	PANICUM VIRGATUM 'PURPLE TEARS'	PURPLE TEARS PANICUM	1 GAL.	CONT.	24" O.C.	FULL AND HEAVY, LOCATE IN FIELD
DW	182	DESCHAMPSIA FLEXUOSA	WAVY HAIR GRASS	1 GAL.	CONT.	24" O.C.	FULL AND HEAVY, LOCATE IN FIELD

PERENNIALS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	TYPE	SPACING	REMARKS
AMH	175	AMSONIA 'BLUE ICE'	ARKANSAS BLUESTAR	1 QT	CONT.	12" OC	FULL AND HEAVY, LOCATE IN FIELD
ASH	110	AMSONIA HUBRICHTII	ARKANSAS BLUESTAR	1 QT	CONT.	12" OC	FULL AND HEAVY, LOCATE IN FIELD
ASE	18	ASCLEPIAS EXALTATA	POKE MILKWEED	1 QT	CONT.	12" OC	FULL AND HEAVY, LOCATE IN FIELD
ASI	9	ASCLEPIAS INCARNATA	SWAMP MILKWEED	1 QT	CONT.	12" OC	FULL AND HEAVY, LOCATE IN FIELD
AQC	75	AQUILEGIA CANADENSIS	RED COLUMBINE	1 QT	CONT.	12" OC	FULL AND HEAVY, LOCATE IN FIELD
EP	294	ECHINACEA PALLIDA	PALE PURPLE CONEFLOWER	1 QT	CONT.	12" OC	FULL AND HEAVY, LOCATE IN FIELD
EUD	330	EURYSIA DIVARICATA	WHITE WOOD ASTER	1 QT	CONT.	12" OC	FULL AND HEAVY, LOCATE IN FIELD
PHD	220	PHLOX DIVARICATA	WILD BLUE PHLOX	1 QT	CONT.	12" OC	FULL AND HEAVY, LOCATE IN FIELD
PSE2	287	PHLOX SUBULATA 'EMERALD PINK'	EMERALD PINK CREEPING PHLOX	1 QT	CONT.	15" O.C.	FULL AND HEAVY, LOCATE IN FIELD
PED	135	PENSTEMON DIGITALIS	MISSISSIPPI PENSTEMON	1 QT	CONT.	12" OC	FULL AND HEAVY, LOCATE IN FIELD

POLLINATOR MEADOW PLANT MIX - AREA A	QTY	BOTANICAL NAME	COMMON NAME	SIZE	TYPE	SPACING	REMARKS
	9	SORGHASTRUM NUTANS 'INDIAN STEEL'	INDIAN GRASS	1 GAL	CONT.	LOCATE IN FIELD	FULL AND HEAVY, LOCATE IN FIELD
	15	LIATRIS ASPERA	ROUGH BLAZING STAR	1 QT	CONT.	LOCATE IN FIELD	FULL AND HEAVY, LOCATE IN FIELD
	20	ECHINACEA PALLIDA	PALE PURPLE CONEFLOWER	1 QT	CONT.	LOCATE IN FIELD	FULL AND HEAVY, LOCATE IN FIELD
	18	AMSONIA HUBRICHTII	HUBRICHT'S BLUESTAR	1 QT	CONT.	LOCATE IN FIELD	FULL AND HEAVY, LOCATE IN FIELD
	26	SYMPHYOTRICHUM OBLONGIFOLIUM 'RAYDON'S FAVORITE'	AROMATIC ASTER	1 QT	CONT.	LOCATE IN FIELD	FULL AND HEAVY, LOCATE IN FIELD
	15	SOLIDAGO ODORA	SWEET GOLDENROD	1 QT	CONT.	LOCATE IN FIELD	FULL AND HEAVY, LOCATE IN FIELD
	63	CAREX TEXENSIS	TEXAS SEDGE	1 QT	CONT.	LOCATE IN FIELD	FULL AND HEAVY, LOCATE IN FIELD
	80	DESCHAMPSIA FLEXUOSA	WAVY HAIR GRASS	1 GAL	CONT.	LOCATE IN FIELD	FULL AND HEAVY, LOCATE IN FIELD
	12	ASCLEPIAS TUBEROSA	BUTTERFLY WEED	1 QT	CONT.	LOCATE IN FIELD	FULL AND HEAVY, LOCATE IN FIELD
	20	AQUILEGIA CANADENSIS	RED COLUMBINE	1 QT	CONT.	LOCATE IN FIELD	FULL AND HEAVY, LOCATE IN FIELD
	70	NARCISSUS 'ICE FOLLIES'	LARGE-CUPPED DAFFODIL	TOP SIZE	BULB	12" OC	FULL AND HEAVY, LOCATE IN FIELD

POLLINATOR MEADOW PLANT MIX - AREA B	QTY	BOTANICAL NAME	COMMON NAME	SIZE	TYPE	SPACING	REMARKS
	25	SCHIZACHYRIUM SCOPARIUM	LITTLE BLUESTEM	1 QT	CONT.	LOCATE IN FIELD	FULL AND HEAVY, LOCATE IN FIELD
	12	MONARDA BRADBURIANA	EASTERN BEEBALM	1 QT	CONT.	LOCATE IN FIELD	FULL AND HEAVY, LOCATE IN FIELD
	14	SYMPHYOTRICHUM OBLONGIFOLIUM 'OCTOBER SKIES'	AROMATIC ASTER	1 QT	CONT.	LOCATE IN FIELD	FULL AND HEAVY, LOCATE IN FIELD
	20	SOLIDAGO ODORA	SWEET GOLDENROD	1 QT	CONT.	LOCATE IN FIELD	FULL AND HEAVY, LOCATE IN FIELD
	40	BOUTELOUA CURTIPENDULA	SIDEOTS GRAMA	1 QT	CONT.	LOCATE IN FIELD	FULL AND HEAVY, LOCATE IN FIELD
	59	PACKERA OBOVATA	ROUNDLEAF RAGWORT	1 QT	CONT.	LOCATE IN FIELD	FULL AND HEAVY, LOCATE IN FIELD
	20	AQUILEGIA CANADENSIS	RED COLUMBINE	1 QT	CONT.	LOCATE IN FIELD	FULL AND HEAVY, LOCATE IN FIELD
	50	NARCISSUS 'ICE FOLLIES'	LARGE-CUPPED DAFFODIL	TOP SIZE	BULB	12" OC	FULL AND HEAVY, LOCATE IN FIELD

POLLINATOR MEADOW PLANT MIX - AREA C	QTY	BOTANICAL NAME	COMMON NAME	SIZE	TYPE	SPACING	REMARKS
	24	SOLIDAGO ODORA	SWEET GOLDENROD	1 QT	CONT.	LOCATE IN FIELD	FULL AND HEAVY, LOCATE IN FIELD
	42	SCHIZACHYRIUM SCOPARIUM	LITTLE BLUESTEM	1 QT	CONT.	LOCATE IN FIELD	FULL AND HEAVY, LOCATE IN FIELD
	19	MONARDA BRADBURIANA	EASTERN BEEBALM	1 QT	CONT.	LOCATE IN FIELD	FULL AND HEAVY, LOCATE IN FIELD
	41	SYMPHYOTRICHUM OBLONGIFOLIUM 'OCTOBER SKIES'	AROMATIC ASTER	1 QT	CONT.	LOCATE IN FIELD	FULL AND HEAVY, LOCATE IN FIELD
	20	PYCNANTHEMUM MUTICUM	BLUNT MOUNTAINMINT	1 QT	CONT.	LOCATE IN FIELD	FULL AND HEAVY, LOCATE IN FIELD
	60	BOUTELOUA CURTIPENDULA	SIDEOTS GRAMA	1 QT	CONT.	LOCATE IN FIELD	FULL AND HEAVY, LOCATE IN FIELD
	45	CAREX TEXENSIS	TEXAS SEDGE	1 QT	CONT.	LOCATE IN FIELD	FULL AND HEAVY, LOCATE IN FIELD
	75	PACKERA OBOVATA	ROUNDLEAF RAGWORT	1 QT	CONT.	LOCATE IN FIELD	FULL AND HEAVY, LOCATE IN FIELD
	43	AQUILEGIA CANADENSIS	RED COLUMBINE	1 QT	CONT.	LOCATE IN FIELD	FULL AND HEAVY, LOCATE IN FIELD
	70	NARCISSUS 'ICE FOLLIES'	LARGE-CUPPED DAFFODIL	TOP SIZE	BULB	12" OC	FULL AND HEAVY, LOCATE IN FIELD

POLLINATOR MEADOW PLANT MIX - AREA D	QTY	BOTANICAL NAME	COMMON NAME	SIZE	TYPE	SPACING	REMARKS
	9	SOLIDAGO ODORA	SWEET GOLDENROD	1 QT	CONT.	LOCATE IN FIELD	FULL AND HEAVY, LOCATE IN FIELD
	35	SCHIZACHYRIUM SCOPARIUM	LITTLE BLUESTEM	1 QT	CONT.	LOCATE IN FIELD	FULL AND HEAVY, LOCATE IN FIELD
	15	MONARDA BRADBURIANA	EASTERN BEEBALM	1 QT	CONT.	LOCATE IN FIELD	FULL AND HEAVY, LOCATE IN FIELD
	23	SYMPHYOTRICHUM OBLONGIFOLIUM 'OCTOBER SKIES'	AROMATIC ASTER	1 QT	CONT.	LOCATE IN FIELD	FULL AND HEAVY, LOCATE IN FIELD
	15	PYCNANTHEMUM MUTICUM	BLUNT MOUNTAINMINT	1 QT	CONT.	LOCATE IN FIELD	FULL AND HEAVY, LOCATE IN FIELD
	40	BOUTELOUA CURTIPENDULA	SIDEOTS GRAMA	1 QT	CONT.	LOCATE IN FIELD	FULL AND HEAVY, LOCATE IN FIELD
	60	PACKERA OBOVATA	ROUNDLEAF RAGWORT	1 QT	CONT.	LOCATE IN FIELD	FULL AND HEAVY, LOCATE IN FIELD
	23	AQUILEGIA CANADENSIS	RED COLUMBINE	1 QT	CONT.	LOCATE IN FIELD	FULL AND HEAVY, LOCATE IN FIELD
	50	NARCISSUS 'ICE FOLLIES'	LARGE-CUPPED DAFFODIL	TOP SIZE	BULB	12" OC	FULL AND HEAVY, LOCATE IN FIELD

POLLINATOR MEADOW PLANT MIX - AREA E	QTY	BOTANICAL NAME	COMMON NAME	SIZE	TYPE	SPACING	REMARKS
	12	SORGHASTRUM NUTANS 'INDIAN STEEL'	INDIAN GRASS	1 GAL	CONT.	LOCATE IN FIELD	FULL AND HEAVY, LOCATE IN FIELD
	12	LIATRIS ASPERA	ROUGH BLAZING STAR	1 QT	CONT.	LOCATE IN FIELD	FULL AND HEAVY, LOCATE IN FIELD
	26	ECHINACEA PALLIDA	PALE PURPLE CONEFLOWER	1 QT	CONT.	LOCATE IN FIELD	FULL AND HEAVY, LOCATE IN FIELD
	20	AMSONIA HUBRICHTII	HUBRICHT'S BLUESTAR	1 QT	CONT.	LOCATE IN FIELD	FULL AND HEAVY, LOCATE IN FIELD
	24	SYMPHYOTRICHUM OBLONGIFOLIUM 'RAYDON'S FAVORITE'	AROMATIC ASTER	1 QT	CONT.	LOCATE IN FIELD	FULL AND HEAVY, LOCATE IN FIELD
	15	SOLIDAGO ODORA	SWEET GOLDENROD	1 QT	CONT.	LOCATE IN FIELD	FULL AND HEAVY, LOCATE IN FIELD
	40	CAREX TEXENSIS	TEXAS SEDGE	1 QT	CONT.	LOCATE IN FIELD	FULL AND HEAVY, LOCATE IN FIELD
	80	DESCHAMPSIA FLEXUOSA	WAVY HAIR GRASS	1 GAL	CONT.	LOCATE IN FIELD	FULL AND HEAVY, LOCATE IN FIELD
	10	ASCLEPIAS TUBEROSA	BUTTERFLY WEED	1 QT	CONT.	LOCATE IN FIELD	FULL AND HEAVY, LOCATE IN FIELD
	18	AQUILEGIA CANADENSIS	RED COLUMBINE	1 QT	CONT.	LOCATE IN FIELD	FULL AND HEAVY, LOCATE IN FIELD
	50	NARCISSUS 'ICE FOLLIES'	LARGE-CUPPED DAFFODIL	TOP SIZE	BULB	12" OC	FULL AND HEAVY, LOCATE IN FIELD

GRAVEL BED	QTY	BOTANICAL NAME	COMMON NAME	SIZE	TYPE	SPACING	REMARKS
	15	SORGHASTRUM NUTANS 'INDIAN STEEL'	INDIAN GRASS	1 GAL	CONT.	LOCATE IN FIELD	FULL AND HEAVY, LOCATE IN FIELD
	10	LIATRIS ASPERA	ROUGH BLAZING STAR	1 QT	CONT.	LOCATE IN FIELD	FULL AND HEAVY, LOCATE IN FIELD
	19	ECHINACEA PALLIDA	PALE PURPLE CONEFLOWER	1 QT	CONT.	LOCATE IN FIELD	FULL AND HEAVY, LOCATE IN FIELD
	25	AMSONIA HUBRICHTII	HUBRICHT'S BLUESTAR	1 QT	CONT.	LOCATE IN FIELD	FULL AND HEAVY, LOCATE IN FIELD
	25	SYMPHYOTRICHUM OBLONGIFOLIUM 'RAYDON'S FAVORITE'	AROMATIC ASTER	1 QT	CONT.	LOCATE IN FIELD	FULL AND HEAVY, LOCATE IN FIELD
	12	SOLIDAGO ODORA	SWEET GOLDENROD	1 QT	CONT.	LOCATE IN FIELD	FULL AND HEAVY, LOCATE IN FIELD
	64	CAREX TEXENSIS	TEXAS SEDGE	1 QT	CONT.	LOCATE IN FIELD	FULL AND HEAVY, LOCATE IN FIELD
	50	DESCHAMPSIA FLEXUOSA	WAVY HAIR GRASS	1 GAL	CONT.	LOCATE IN FIELD	FULL AND HEAVY, LOCATE IN FIELD
	10	ASCLEPIAS TUBEROSA	BUTTERFLY WEED	1 QT	CONT.	LOCATE IN FIELD	FULL AND HEAVY, LOCATE IN FIELD
	16	AQUILEGIA CANADENSIS	RED COLUMBINE	1 QT	CONT.	LOCATE IN FIELD	FULL AND HEAVY, LOCATE IN FIELD
	40	NARCISSUS 'ICE FOLLIES'	LARGE-CUPPED DAFFODIL	TOP SIZE	BULB	12" OC	FULL AND HEAVY, LOCATE IN FIELD

BELOW BRIDGE PLANT MIX	QTY	BOTANICAL NAME	COMMON NAME	SIZE	TYPE	SPACING	REMARKS
	134	CAREX PENNSYLVANICA	PENNSYLVANIA SEDGE	1 QT	CONT.	12" OC	FULL AND HEAVY, LOCATE IN FIELD
	134	JUNCUS TENUIS	POVERTY RUSH	1 QT	CONT.	12" OC	FULL AND HEAVY, LOCATE IN FIELD

BIORETENTION PLANT MIX	QTY	BOTANICAL NAME	COMMON NAME	SIZE	TYPE	SPACING	REMARKS
	12	ASCLEPIAS VERTICILLATA	WHORLED MILKWEED	1 QT	CONT.	12" OC	FULL AND HEAVY, LOCATE IN FIELD
	140	CAREX DIVULSA	EUROPEAN GREY SEDGE	1 QT	CONT.	12" OC	FULL AND HEAVY, LOCATE IN FIELD
	20	EUPATORIUM MACULATUM 'GATEWAY'	GATEWAY JOE-PYE WEED	1 QT	CONT.	12" OC	FULL AND HEAVY, LOCATE IN FIELD
	104	JUNCUS TENUIS	POVERTY RUSH	1 QT	CONT.	12" OC	FULL AND HEAVY, LOCATE IN FIELD
	450	PACKERA OBOVATA	GOLDEN GROUNDSEL	1 QT	CONT.	12" OC	FULL AND HEAVY, LOCATE IN FIELD
	20	SYMPHYOTRICHUM OBLONGIFOLIUM 'RAYDON'S FAVORITE'	RAYDON'S FAVORITE FALL ASTER	1 QT	CONT.	12" OC	FULL AND HEAVY, LOCATE IN FIELD

SEED	QTY	BOTANICAL NAME	COMMON NAME	SIZE	TYPE	SPACING	REMARKS
WSM	1,939SF	WOODLAND SEED MIX	WOODLAND SEED MIX	-	SEED	-	CUSTOM 'COTTONWOOD SEED MIX' BY ERNST SEED QUOTE # Q280451

ARLINGTON COUNTY, VIRGINIA
DEPARTMENT OF ENVIRONMENTAL SERVICES

PLANTING DETAILS
ARLINGTON JUNCTION PARK-CIVIL ENGINEERING PLAN
1051 SOUTH EADS STREET
ARLINGTON COUNTY, VA

SCALE: AS SHOWN SHEET L412

- NOTES:
- REFER TO SPECIFICATIONS FOR SUBMITTAL REQUIREMENTS INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING: SOIL ANALYSES AND AMENDMENT RECOMMENDATIONS; SOURCE LIST AND PHOTOGRAPHS FOR INITIAL SELECTION; PHOTOGRAPHS FOR VERIFICATION.
 - REFER TO SPECIFICATIONS FOR TREE TAGGING REQUIREMENTS.
 - REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
 - MEET REQUIREMENTS OF ANSI Z60.1, LATEST ADDITION, FOR ALL PLANT MATERIAL.
 - QUANTITIES GIVEN ARE FOR INFORMATION ONLY. CONTRACTOR IS RESPONSIBLE FOR MEETING THE DESIGN INTENT, AS INDICATED ON PLANTING PLANS.
 - ALL PLANTS ARE TO BE HEALTHY, FULL, BALANCED, AND EXCEPTIONALLY HEAVY.
 - PROVIDE TURF PER SPECIFICATIONS IN ALL DISTURBED AREAS NOT OTHERWISE PLANTED OR PAVED.
 - ALL QUART SIZED PLANTS TO BE LOCATED IN FIELD.



DEPARTMENT OF PARKS AND RECREATION
Park Development Division
2100 Clarendon Boulevard, Suite 414
Arlington, VA 22201
Phone



1 SOIL PROFILE REBUILDING LOCATIONS
1"=400'-0"

Soil Profile Rebuilding

Specification for Restoration of Graded and Compacted Soils that will be Vegetated

CSI Div 2

CSICode-02910-Plant Preparation-Soil Preparation

CONTENTS

- 1. PURPOSE AND DESCRIPTION
- 2. PROCEDURE
- 3. DEFINITIONS
- 4. SUBMITTALS

REFERENCES & PERMISSIONS

1. PURPOSE AND DESCRIPTION

1.1 Purpose

Soil Profile Rebuilding is an appropriate soil restoration technique for sites where topsoil has been completely or partially removed and subsoil layers have been compacted (graded and/or trafficked by equipment). It may also be used with some modifications if topsoil is present. This is not an appropriate technique in sites with surface compaction only (6 inches or less), although this situation is rare on construction sites. This technique is not appropriate within the root zones of trees that are to be protected. Soil Profile Rebuilding can improve physical and biological characteristics of soil to allow for revegetation. Soil chemical problems, soil contamination from heavy metals, pathogens, or excessive debris or gravel shall be addressed separately.

1.2 Description of Procedure

The procedure includes a subsoiling procedure, addition of organic matter in the form of compost, replacement or addition of topsoil, and subsequent planting with woody plants. The soil preparation portion of Soil Profile Rebuilding puts the components in place for restoration to characteristics similar to undisturbed soils, however, the complete restoration process requires root activity and occurs over many years. This technique may be appropriate for restoration of disturbed soils as defined by SITES™.

1.3 Expected Outcomes

Soil Profile Rebuilding may improve vegetation establishment, increase tree growth rates, increase soil permeability, enhance formation of aggregates in the subsoil, and enhance long-term soil carbon storage.

Soil Profile Rebuilding Specification (Full Version)—1

- 2. have a pH between 5.2 and 7.5 (a narrower range may be specified for particular plant material)
- 3. have an organic matter content not less than 3%
- 4. have low salinity as indicated by an electrical conductivity of less than 4.0 mmhos/cm
- 5. be free of debris, stones, gravel, trash, large sticks, heavy metals, and other deleterious contaminants, (if screening is used to remove debris, screen size must be ¾ inch or larger).
- 6. have a nutrient profile such that it is able to support plant growth
- 7. be free of noxious weed seeds

3.2 Compost

Compost feedstock shall be leaves, yardwaste, or foodwaste. Biosolid-based composts shall not be used. A compost sample with analysis shall be submitted for approval to the client before application.

Stability refers to the rate of biological breakdown, measured by carbon dioxide release. Maturity refers to completeness of the aerobic composting process and suitability (lack of plant toxicity) as a plant growth media, often measured by ammonia release and by plant growth tests. Compost manufacturers that subscribe to the US Composting Council's testing program may document stability as compost testing 7 or below in accordance with TMECC 05.08-B, "Carbon Dioxide Evolution Rate". Maturity (suitability for plant growth) may be documented as compost testing greater than 80% in accordance with TMECC 05.05-A, "Germination and Vigor". Compost is considered mature and stable if it tests at 6.0 or higher on the Solvita Compost Maturity Index Rating, which is a combination of Carbon Dioxide and Ammonia Maturity Tests (test information and equipment available at www.solvita.com).

Compost shall also:

- 1. Free of weed seeds
- 2. Free of heavy metals or other deleterious contaminants
- 3. Have an EC of less than 4.0 mmhos/cm

3.3 Severely Disturbed Soil

Soil shall be considered severely disturbed if grade was lowered more than 34 inches OR soil was compacted in lifts regardless of the final grade.

Soil Profile Rebuilding Specification (Full Version)—4

2. PROCEDURE

2.1 Location

Profile Rebuilding shall occur on all soil areas that are to be vegetated that have been disturbed by trafficking or grading during construction or prior to construction. Soil areas that are not to be treated should be protected by permanent fencing during the construction period and all access to these areas prohibited. A soil map delineating protected areas and areas to be treated shall be approved by the owner, arborist, or landscape architect before grading or construction begins.

2.2 Sequencing

Profile Rebuilding shall occur after site disturbance is complete, including all vehicle and equipment trafficking, but before replacement of topsoil. Once profile rebuilding is complete, all traffic and equipment or materials storage on treated areas is prohibited with the exception of foot traffic for the purposes of planting or mulching.

If topsoil is already present and is 4 inches or greater in depth, use the "modifications for pre-existing topsoil."

2.3 Remove foreign materials

Remove all foreign materials resulting from construction operations, including oil drippings, stone, gravel, and other construction materials from the existing soil surface.

2.4 Application of Compost

Spread mature, stable compost (see Section 3. Definitions for definition of compost) to a 4 inch depth over compacted subsoil.

2.5 Subsoiling

Subsoiling may be performed when soil is neither wet nor dry. If a shovel cannot be forced into the soil, it is too dry. If the surface is sticky or muddy, it is too wet. Use a backhoe rearbucket or similar equipment with a tined bucket to break up the compacted soil and incorporate the compost. Work backwards away from excavated soils so that treated soil is not trafficked by the equipment. Insert the bucket through the compost layer and into the subsoil to a depth of 24 inches and raise a bucket of soil at least 24 inches above the soil surface. Tip the bucket and allow soil to fall. Repeat this procedure until no clumps of compacted soil larger than 12 inches in diameter remain. The tines of the bucket can be used to break apart larger clumps if necessary, 50% of the soil shall be in clumps 6 inches or smaller. No clumps shall be greater than 18" in diameter. The subsoiling is not intended to homogenize the compost and soil, but rather loosen the soil to a 24-inch depth and create veins of compost down to that depth as well. To ensure that subsoiling reached the appropriate depth, a push tube soil sampler shall be used to verify compost is present at 24 inch depth.

Soil Profile Rebuilding Specification (Full Version)—2

4. SUBMITTALS

4.1 Soil Map

A soil map indicating soil areas to be protected and those to be restored via Soil Profile Rebuilding shall be submitted by the contractor for approval by the owner, arborist, or landscape architect before construction begins.

4.2 Compost

A compost sample with analysis certifying it is stable, mature, from acceptable feedstocks and free of contaminants and weed seeds shall be submitted for approval to the landscape architect or owner before compost is applied to the soil.

4.3 Topsoil

A topsoil sample with analysis from a certified testing laboratory and verification of source shall be submitted for approval to the landscape architect or owner before application. Separate documentation is required for each 100 cubic yards of topsoil unless otherwise approved by the landscape architect or owner.

REFERENCES & PERMISSIONS

Use of this specification has been documented to increase tree canopy and soil carbon stores compared with typical practices. See www.urbanforestry.frec.vt.edu/SRES for more information.

Soil Profile Rebuilding Specification by Susan Day et al. is licensed under a Creative Commons Attribution-NonCommercial 3.0 United States License. It may be used freely as is, or modified. However use of the term "Soil Profile Rebuilding" should only be used when soil restoration is performed as described in this specification. See www.urbanforestry.frec.vt.edu/SRES/specification.html for full details.

Soil Profile Rebuilding Specification (Full Version)—5

2.6 Replacement of topsoil

2.6.1 Standard procedure

Stockpiled topsoil, or additional topsoil if none is available from the site, shall be returned to the site to a 4 inch minimum depth (see Section 3.3 Definitions for definition of topsoil). If soil was severely disturbed (see definitions), a 6-8 inch minimum shall be replaced.

2.6.2 Modification if significant topsoil is already present before Profile Rebuilding is initiated

Case 1:

At least four inches of topsoil is present on the site after construction activities are completed AND soil is not severely disturbed (see Section 3.3 Definitions for description of severely disturbed).

Case 2:

Less than 4 inches of topsoil is present on site after construction activities were completed but before Profile Rebuilding is initiated, OR soil is severely disturbed (see Section 3.3 Definitions for description of severely disturbed).

For Case 1: A minimum of 3 inches additional topsoil shall be placed over the subsoiled layer before tilling.

For Case 2: Follow Section 2.6.1 Standard procedure, as if no topsoil had been present.

2.7 Tilling

Rototill topsoil to a depth of 6-8 inches when soil is neither dry nor very moist. Rototilling depth should cross the interface with the subsoiled layer by a minimum of 1 inch and can be verified with a random sampling with a push tube soil sampler.

2.8 Planting

Plant the site with woody plants, trees or shrubs, at a density that insure a minimum of 50% of the site will be occupied with roots within 10 years. Planting of at least one large stature tree (e.g., one that will mature at approximately 60-70 feet in height) or 20 medium stature shrubs per 5,000 sq. ft. shall be considered to achieve this.

3. DEFINITIONS

3.1 Topsoil

Soil can be considered topsoil if it originates from an A horizon of a natural soil or is a mineral soil with 3% or greater organic matter content and a NRCS textural class similar to pre-development A horizon soils for the site or as specified by the owner, arborist, or landscape architect. Blended soils shall not be used unless specified by the owner, arborist, or landscape architect. In addition topsoil shall:

- 1. Be friable and well drained

Soil Profile Rebuilding Specification (Full Version)—3



DEPARTMENT OF PARKS AND RECREATION

Park Development Division
2100 Clarendon Boulevard, Suite 414
Arlington, VA 22201
Phone: 703.228.3332
Fax: 703.228.3328

ITB #23-DPR-ITBPW-450

#SWM 22-0224

Project Name and Location
ARLINGTON JUNCTION PARK

FINAL PLAN

1051 SOUTH EADS STREET
ARLINGTON, VIRGINIA

Sheet Title
SOIL PROFILE REBUILDING DETAILS

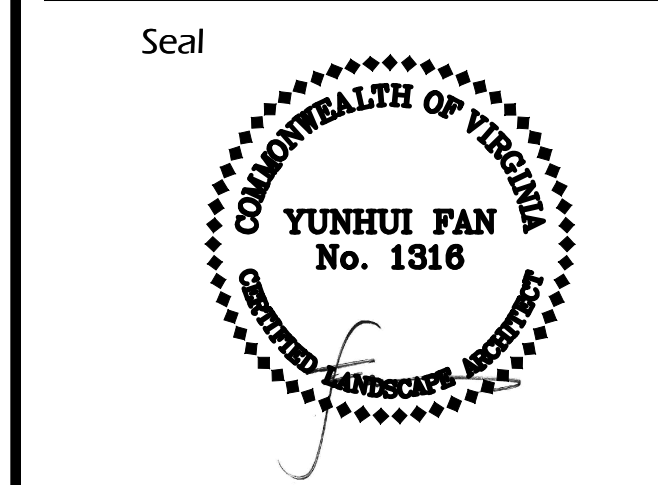
Approval _____ Date _____
Design Supervisor _____

Revisions	Date
CEP#1	7/15/2021
CEP#2	12/21/2023
BUILDING PERMIT	02/15/2023
REVISED BUILDING PERMIT	04/20/2023
CEP #4	7/20/2023

Designed: _____
Drawn: JC, SM
Checked: SM, CF

Filename: _____
Plotted: _____

Scale: AS SHOWN
Date: 04/20/2023

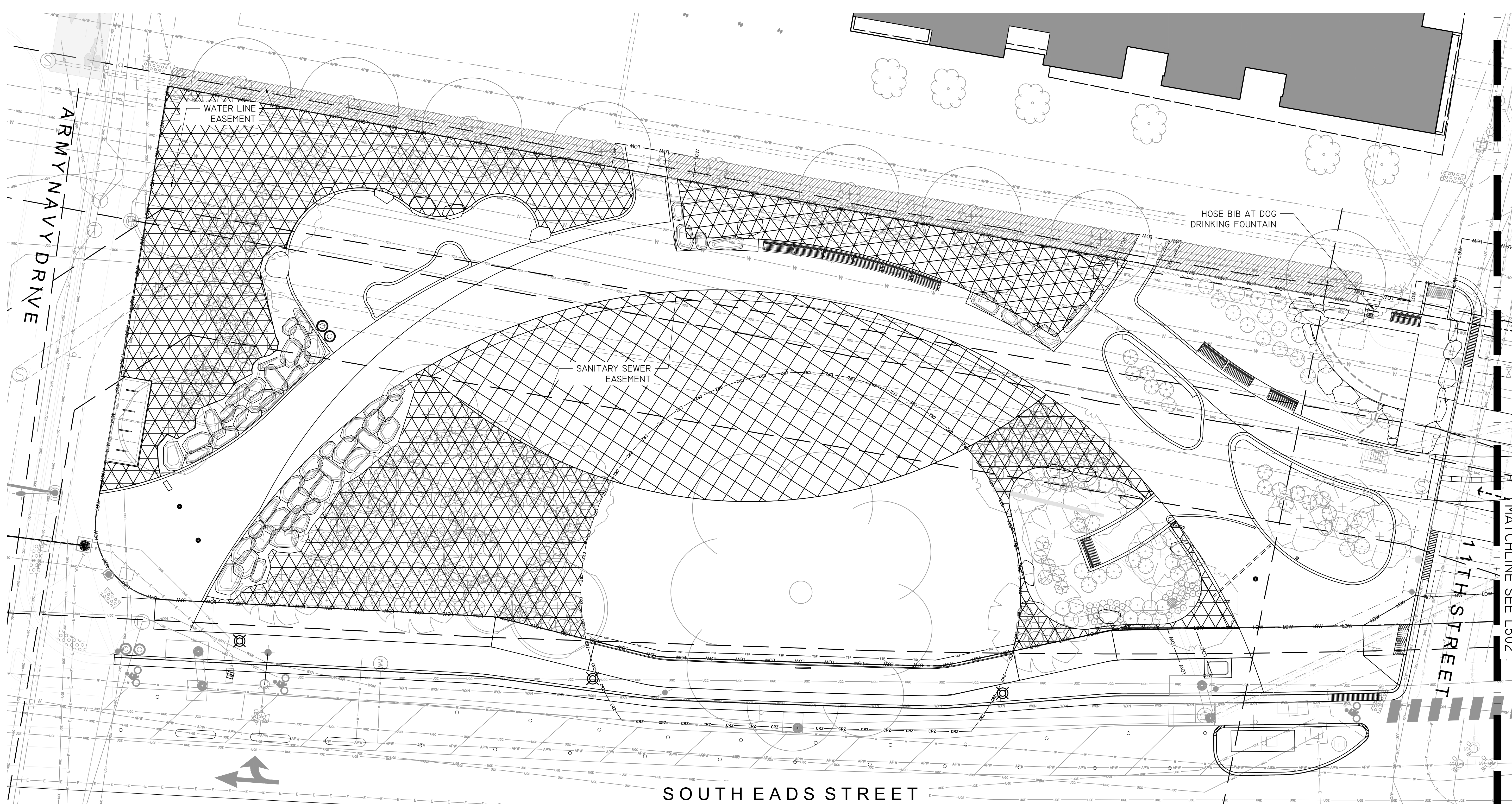


Sheet **L413**

ARLINGTON COUNTY, VIRGINIA
DEPARTMENT OF ENVIRONMENTAL SERVICES

SOIL PROFILE REBUILDING DETAILS
ARLINGTON JUNCTION PARK—CIVIL ENGINEERING PLAN
1051 SOUTH EADS STREET
ARLINGTON COUNTY, VA

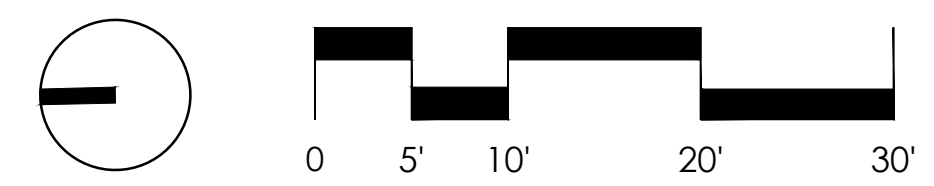
SCALE: AS SHOWN	SHEET L413
-----------------	------------



IRRIGATION LEGEND

- C CONTROLLER
- P POINT OF CONNECTION
- HB HOSE BIB
- POPUP SPRAY OR ROTOR IRRIGATION
- DRIP IRRIGATION

- NOTES:**
1. DRAWINGS PROVIDED ARE INTENDED AS A DIAGRAM INDICATING THE PLANTING AREAS TO BE IRRIGATED.
 2. COMPLY WITH CURRENT CODE REQUIREMENTS.
 3. POINT OF CONNECTION SHOWN IS SCHEMATIC ONLY. TO BE COORDINATED WITH ARLINGTON WATER SEWER STREETS (WSS).
 4. PROVIDE HOSE BIB LOCATIONS AS NOTED.
 5. STRUCTURE LOCATIONS SHOWN ARE SCHEMATIC ONLY. IRRIGATION INSTALLER TO PROVIDE DETAILED LOCATIONS OF CONTROL PANEL, SUBMETER, AND BACKFLOW PREVENTER.
 6. REFER TO PLANTING PLANS FOR COMPLETE PLANTING INFORMATION.
 7. REFER TO SPECIFICATIONS FOR MINIMAL SUBMITTAL REQUIREMENTS.
 8. ZONE ALL DIVERGENT PLANT TYPES, SOIL TYPES, AND ENVIRONMENTAL CONDITIONS SEPARATELY.
 9. IRRIGATION COVERAGE IS TO BE COMPREHENSIVE. NOTIFY ARCHITECT IF DISCREPANCIES BETWEEN FIELD CONDITIONS AND PLANS EXIST THAT WOULD RESULT IN LANDSCAPE WITHOUT IRRIGATION.
 10. ALL PRUNING TO BE PERSONALLY DIRECTED BY COUNTY URBAN FORESTER.



DEPARTMENT OF PARKS AND RECREATION
 Park Development Division
 2100 Clarendon Boulevard, Suite 414
 Arlington, VA 22201
 Phone: 703.228.3332
 Fax: 703.228.3328

ITB #23-DPR-ITBPW-450

#SWM 22-0224

Project Name and Location
ARLINGTON JUNCTION PARK

FINAL PLAN

1051 SOUTH EADS STREET
 ARLINGTON, VIRGINIA

Sheet Title
IRRIGATION CONCEPT PLAN

Approval _____ Date _____
 Design Supervisor _____

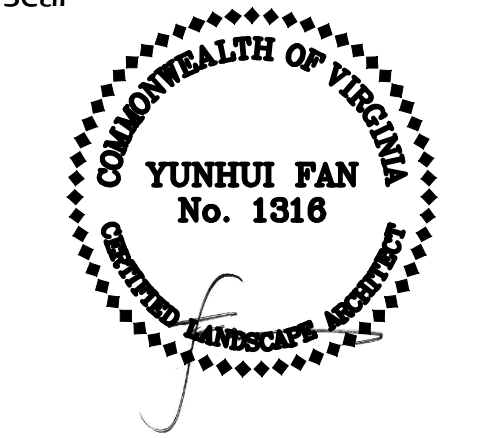
Revisions	Date
CEP#1	7/15/2021
CEP#2	12/21/2023
BUILDING PERMIT	02/15/2023
REVISED BUILDING PERMIT	04/20/2023
CEP #4	7/20/2023

Designed: _____
 Drawn: JC, SM
 Checked: SM, CF

Filename: _____
 Plotted: _____

Scale: AS SHOWN
 Date: 04/20/2023

Seal

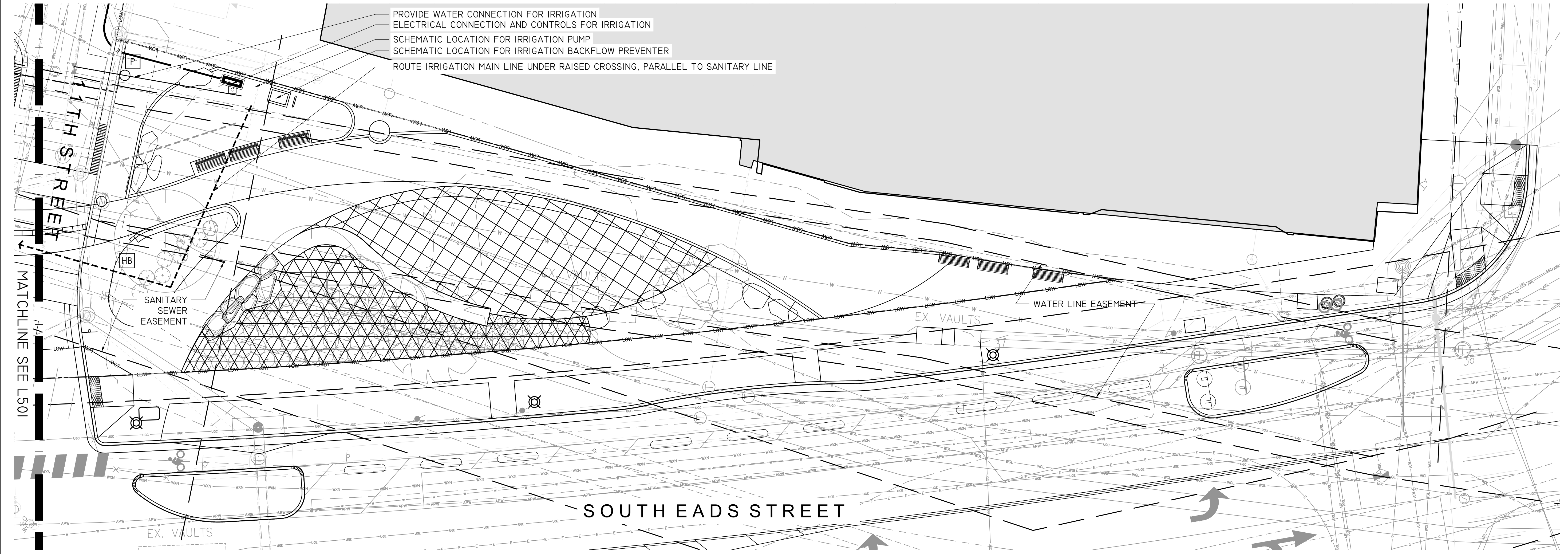
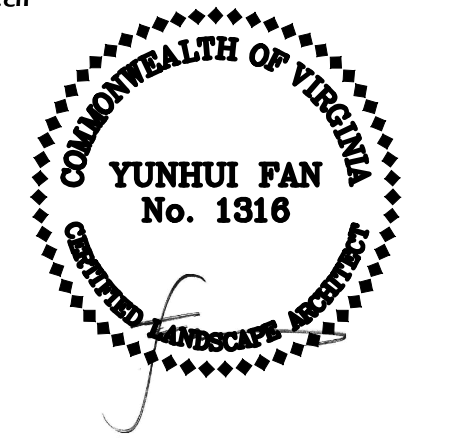


Sheet **L501**

ARLINGTON COUNTY, VIRGINIA
 DEPARTMENT OF ENVIRONMENTAL SERVICES

IRRIGATION CONCEPT PLAN
 ARLINGTON JUNCTION PARK—CIVIL ENGINEERING PLAN
 1051 SOUTH EADS STREET
 ARLINGTON COUNTY, VA

SCALE: AS SHOWN	SHEET L501
-----------------	------------



IRRIGATION LEGEND

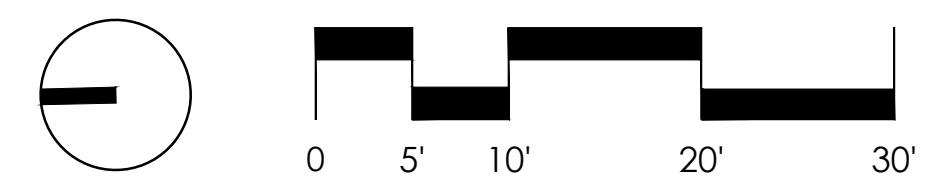
- CONTROLLER
- POINT OF CONNECTION
- HOSE BIB
- POPUP SPRAY OR ROTOR IRRIGATION
- DRIP IRRIGATION

- NOTES:
1. DRAWINGS PROVIDED ARE INTENDED AS A DIAGRAM INDICATING THE PLANTING AREAS TO BE IRRIGATED.
 2. COMPLY WITH CURRENT CODE REQUIREMENTS.
 3. POINT OF CONNECTION SHOWN IS SCHEMATIC ONLY. TO BE COORDINATED WITH ARLINGTON WATER SEWER STREETS (WSS).
 4. PROVIDE HOSE BIB LOCATIONS AS NOTED.
 5. STRUCTURE LOCATIONS SHOWN ARE SCHEMATIC ONLY. IRRIGATION INSTALLER TO PROVIDE DETAILED LOCATIONS OF CONTROL PANEL, SUBMETER, AND BACKFLOW PREVENTER.
 6. REFER TO PLANTING PLANS FOR COMPLETE PLANTING INFORMATION.
 7. REFER TO SPECIFICATIONS FOR MINIMAL SUBMITTAL REQUIREMENTS.
 8. ZONE ALL DIVERGENT PLANT TYPES, SOIL TYPES, AND ENVIRONMENTAL CONDITIONS SEPARATELY.
 9. IRRIGATION COVERAGE IS TO BE COMPREHENSIVE. NOTIFY ARCHITECT IF DISCREPANCIES BETWEEN FIELD CONDITIONS AND PLANS EXIST THAT WOULD RESULT IN LANDSCAPE WITHOUT IRRIGATION.
 10. ALL PRUNING TO BE PERSONALLY DIRECTED BY COUNTY URBAN FORESTER.

ARLINGTON COUNTY, VIRGINIA
DEPARTMENT OF ENVIRONMENTAL SERVICES

IRRIGATION CONCEPT PLAN
ARLINGTON JUNCTION PARK-CIVIL ENGINEERING PLAN
1051 SOUTH EADS STREET
ARLINGTON COUNTY, VA

SCALE: AS SHOWN SHEET L502



PANELBOARD A																
120/208V, 1 PHASE, 3 WIRE										200 AMP MAIN CIRCUIT BREAKER						
MANUFACTURER: EATON PRL 1A OR EQUIVALENT										22,000 AIC						
OPTIONS: SERVICE ENTRANCE RATED, SURGE PROTECTIVE DEVICE (SPD)										SURFACE MOUNTED						
#	DESCRIPTION	WIRE	EGC	COND	TRIP AMPS	P	TYPE	CONNECTED LOADS IN VA	TYPE	P	TRIP AMPS	WIRE	EGC	COND	DESCRIPTION	#
1	LIGHTS RELAY CONTACT r1	2#6	1#6	2"	20	1		500 A		1					BUSS SPACE	2
3	USB CHARGERS	2#6	1#6	2"	20	1		150 B		1					BUSS SPACE	4
5	LIGHTS RELAY CONTACT r2	2#6	1#6	2"	20	1		350 A		1					BUSS SPACE	6
7	USB CHARGERS	2#6	1#6	2"	20	1		180 B		1					BUSS SPACE	8
9	GFCI RECEPTACLE	2#12	1#12	3/4"	20	1		180 A		1					BUSS SPACE	10
11	SPARE				20	1		B		1					BUSS SPACE	12
13	SPARE				20	1		A		1					BUSS SPACE	14
15	SPARE				20	1		B		2	##				SPD	16
17	SPARE				20	1		A								18

TYPE KEY
A - ARC FAULT CIRCUIT INTERRUPTER
G - GROUND FAULT CIRCUIT INTERRUPTER
ST - SHUNT TRIP
HT - HANDLE TIE
H - HACR RATED
S - SWITCH DUTY RATED
HL - HANDLE LOCKOFF
MC - METAL-CLAD CABLE

1.0 KVA PHASE A	8.6 AMPS PHASE A
0.3 KVA PHASE B	2.8 AMPS PHASE B
1.4 KVA TOTAL	6.5 AMPS TOTAL CONNECTED LOAD

SCHNEIDER RELAY CONTACTOR				
RELAY	CIRCUIT	CONTROL	ON	OFF
r1	1L8-1	PHOTOCELL		
r2	1L8-3	PHOTOCELL		

LIGHT FIXTURE SCHEDULE									
TYPE	DESCRIPTION	MANUFACTURER	CATALOG #	VOLTAGE	LUMENS	DIMMING	LAMPS	WATTS	
L1	WALL MOUNTED OUTDOOR RATED LED LUMINAIRE. DIRECT LIGHT MARKING LIGHT FIXTURE. 3000K	BEGA	22261	120-277	362	0-10V SET MAX FIXED	LED	5.8	
L2	LED BOLLARD WITH 360 DEGREE LIGHT DISTRIBUTION. #4 BRUSHED 316 GRADE STAINLESS STEEL. 3000K	BEGA	88060 K3	120-277	766	0-10V SET MAX FIXED	LED	11	
L3	FULLY ENCAPSULATED FLEXIBLE LINEAR LED FIXTURE, WET RATED, 3000K, 1.5W/FT. COORDINATE MOUNTING, END CAPS, AND ELECTRICAL CONNECTION. COORDINATE LENGHTS WITH 40 LED DRIVER	Q-TRAN	BOXA-SW WET 3000K END/TL	LED DRIVER	99 PER FOOT	LED DRIVER	LED	1.5 W/FT	
L3 LED DRIVER	40W CONSTANT VOLTAGE + CONSTANT CURRENT LED DRIVER. IP67 RATED FOR OUTDOOR INSTALLATIONS	MW MEAN WELL	HLG-40H	120-277	-	YES	-	40 MAX	
L-4	LED BUILDING ELEMENT UNSHIELDED POLE LIGHT.	BEGA	84 875	120-277	5189	0-10V SET MAX FIXED	LED	46.8	

ELECTRICAL SYMBOLS

DOMINION VIRGINIA POWER 200-AMP METER SOCKET, 120/208V, 1PH, 3W, 200-AMPS

L1 INDICATES LED LIGHT FIXTURE TYPE. SEE LIGHT FIXTURE SCHEDULE FOR MORE INFORMATION. r1 INDICATES RELAY / CONTACT NUMBER. A-1 INDICATES PANELBOARD CIRCUIT NUMBER.

CONDUIT AND WIRE. ARROW INDICATES HOMERUN TO PANEL. TICK MARKS INDICATE NUMBER OF PHASE, SWITCHED PHASE, SWITCH RUNNERS, AND NEUTRAL (GROUNDED) WIRES. SEE PANEL BOARD SCHEDULES FOR NUMBER OF CIRCUITS AND WIRE SIZES.

EXISTING UNDERGROUND CONDUIT SHOWN FOR REFERENCE ONLY. PREVIOUS ENGINEERING DRAWINGS INDICATED UNDERGROUND CONDUIT AT THESE LOCATIONS. COORDINATE LOCATIONS WITH DEMOLITION OF SITE LIGHTING. EXISTING CONDUIT MAY BE REUSED.

UNDERGROUND PVC SCHEDULE 40 CONDUIT.
3 #6 - INDICATES QUANTITY AND SIZE OF PHASE CONDUCTORS
1 #6 N - INDICATES QUANTITY AND SIZE OF NEUTRAL CONDUCTORS
1 #6 EGC - INDICATES QUANTITY AND SIZE OF EQUIPMENT GROUNDING CONDUCTORS
2" C - INDICATES SIZE OF CONDUIT

120/208V, 1 PHASE, 3 WIRE PANELBOARD. PROVIDE FLUSH OR SURFACE MOUNT AS INDICATED ON PLANS.

HAND HOLE - SMALL JUNCTION BOXES 12 INCH X 12 INCH QUAZITE PC1212HA00 (LID) AND PC1212BA12

DUPLEX GROUND FAULT CIRCUIT INTERRUPTER (GFCI) CONVENIENCE RECEPTACLE. 125V, 20-AMP, GROUNDING TYPE. NEMA 5-20R. MOUNTED 18" ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE. B1-3 INDICATES PANEL CIRCUITING.

SINGLE-GANG USB CHARGER WITH FOUR USB TYPE A OR TWO USB TYPE A AND TWO USB TYPE C CHARGERS. TYPICAL 5 AMPS AT 5VDC, 30W. PROVIDE CAST OR BELL-TYPE SINGLE GANG OUTLET BOX WITH IN-USE COVER PLATE.

ABBREVIATIONS

ECB - ENCLOSED CIRCUIT BREAKER
EGC - EQUIPMENT GROUNDING CONDUCTOR
EPO - EMERGENCY POWER OFF
EM - EMERGENCY
EX - EXISTING TO REMAIN
GF/GFCI - GROUND FAULT INTERRUPTER / GROUND FAULT CIRCUIT INTERRUPTER
LV - LOW VOLTAGE
REX - RELOCATE EXISTING/RELOCATED EXISTING
TR - TAMPER RESISTANT
X - EXISTING TO BE REMOVED
WP - WEATHERPROOF



DEPARTMENT OF PARKS AND RECREATION

Park Development Division
2100 Clarendon Boulevard, Suite 414
Arlington, VA 22201
Phone: 703.228.3332
Fax: 703.228.3328

ITB #23-DPR-ITBPW-450

#SWM 22-0224

Project Name and Location

ARLINGTON JUNCTION PARK

FINAL PLAN

1051 SOUTH EADS STREET

ARLINGTON, VIRGINIA

Sheet Title

ELECTRICAL SYMBOLS AND SCHEDULES

Approval _____ Date _____

Design Supervisor _____

Revisions _____ Date _____

CEP#2 _____ 12/21/2022

CEP#3 _____ 06/02/2023

BUILDING PERMIT _____ 02/15/2023

REVISED BUILDING PERMIT _____ 04/20/2023

CEP#4 _____ 07/21/2023

Designed: JGK

Drawn: JGK

Checked: CMR

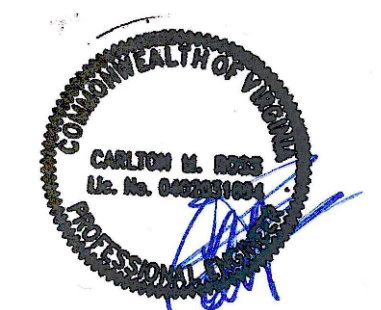
Filename: _____

Plotted: _____

Scale: AS SHOWN

Date: July 21, 2023

Seal

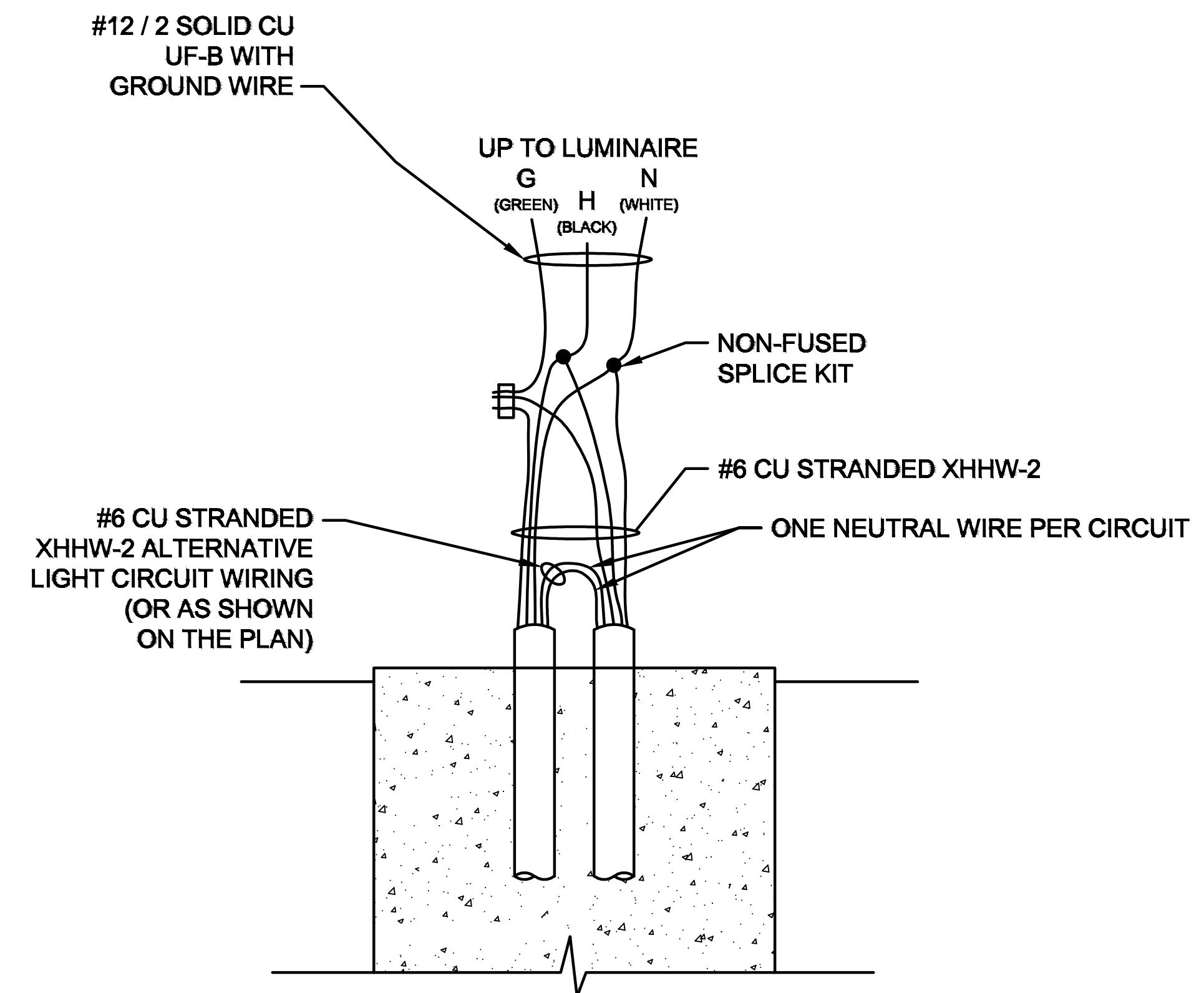
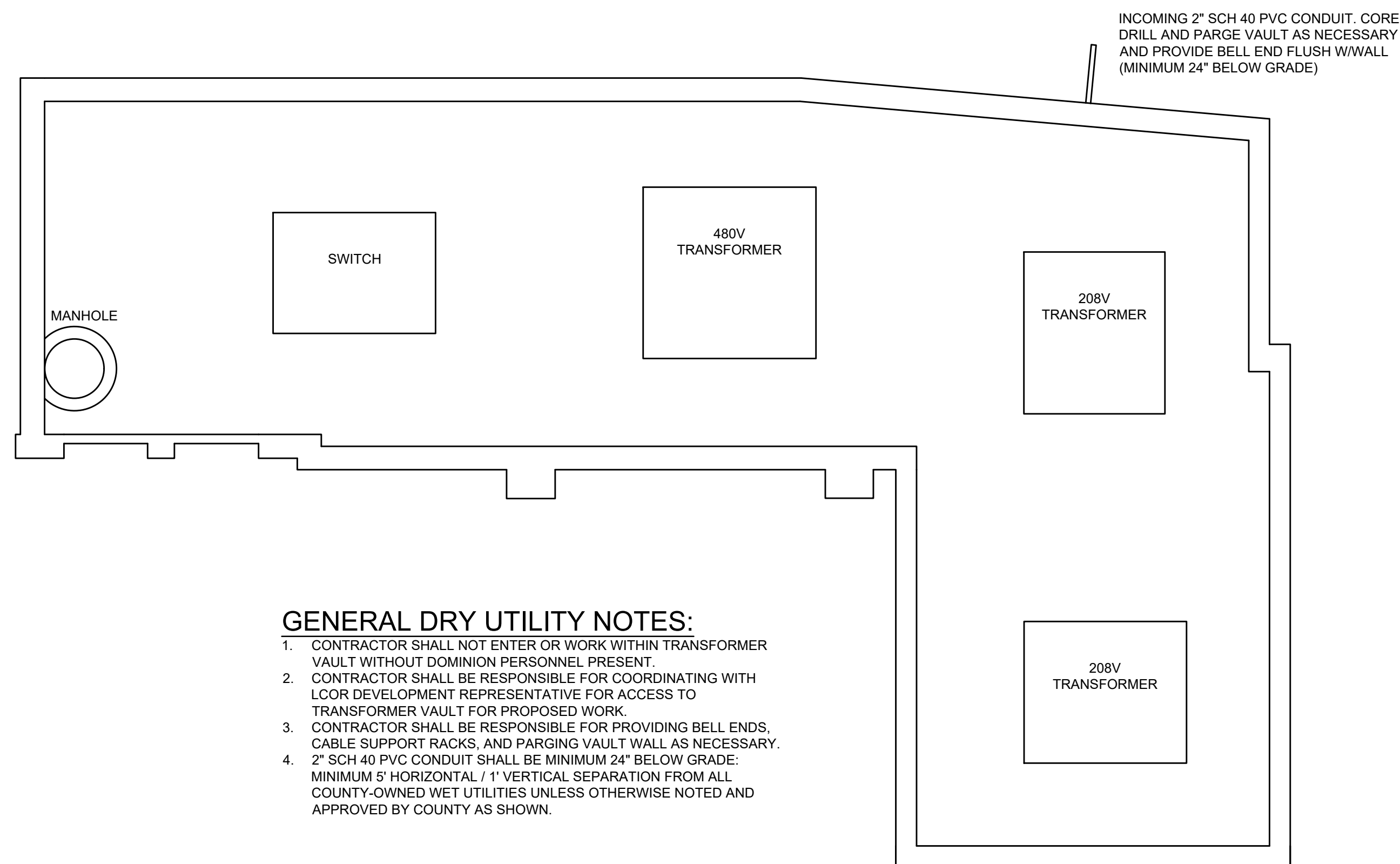


Sheet

E.001



TOP VIEW TRANSFORMER LOCATIONS

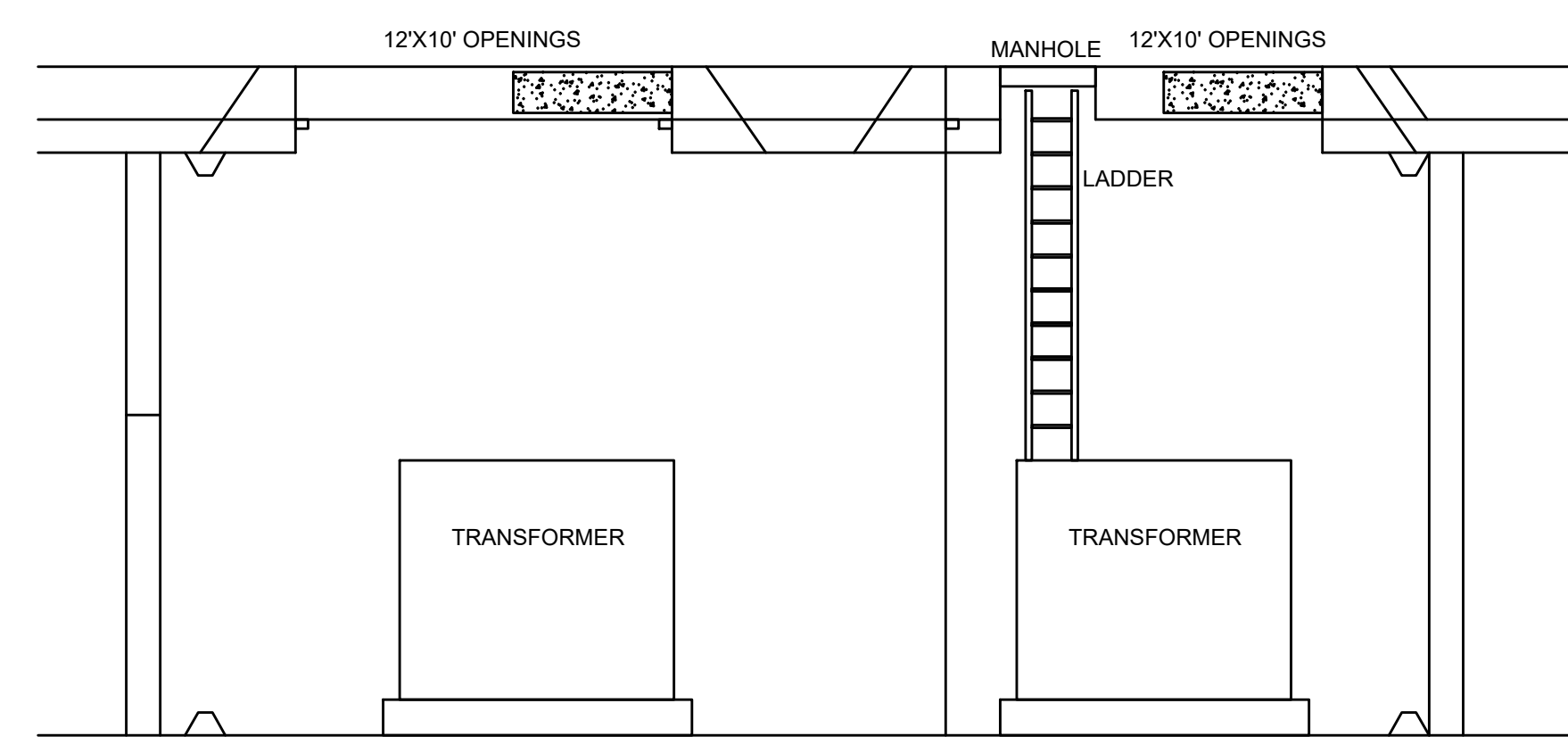


NOTES:

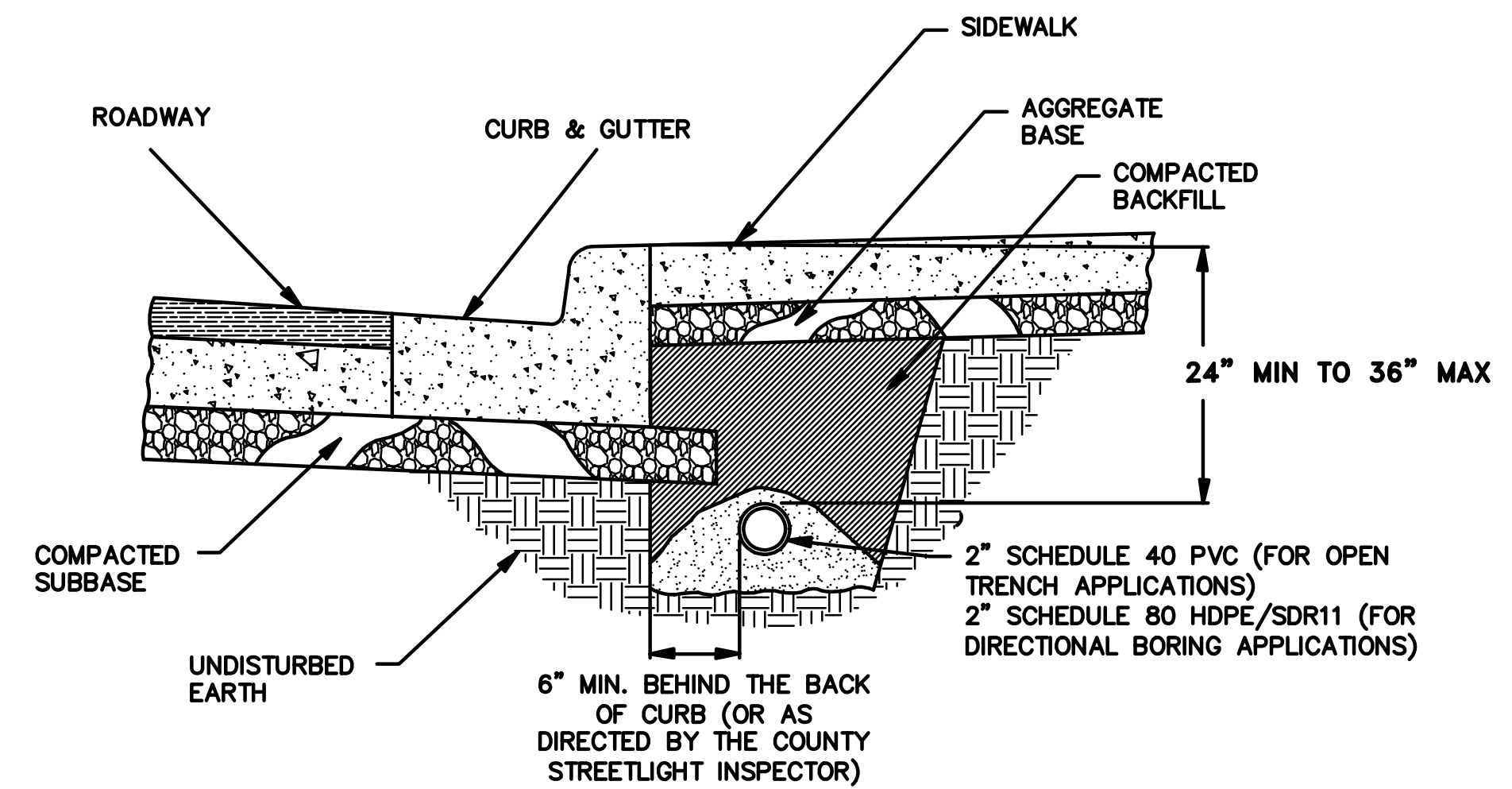
1. CONTRACTOR SHALL INSTALL 4' SLACK OF ALTERNATE CIRCUIT CONDUCTOR IN THE BASE OF THE POLES WHERE THERE IS NO JUNCTION BOX PRESENT BETWEEN ALTERNATE POLES.

LIGHT FIXTURE WIRING DETAIL

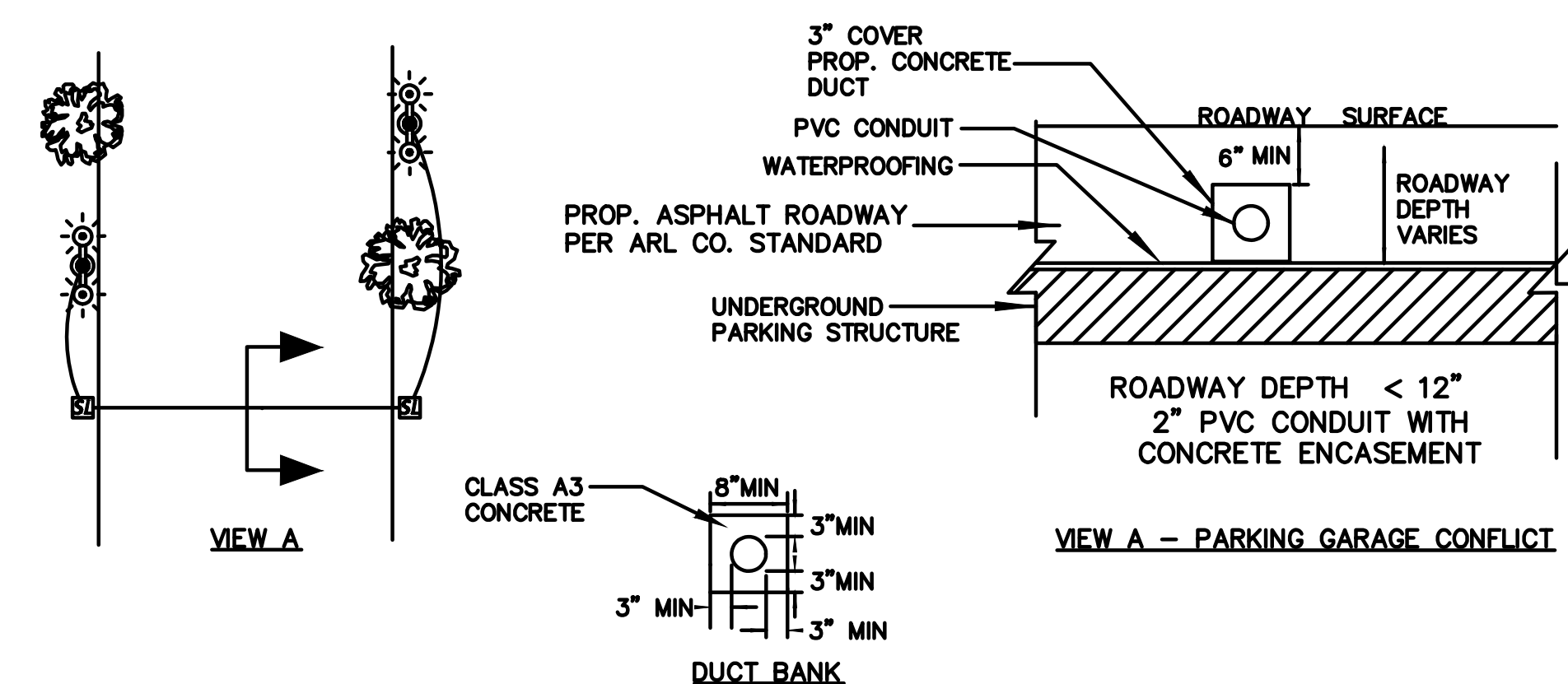
SIDE VIEW LOOKING WEST



ARLINGTON COUNTY, VIRGINIA DEPARTMENT OF ENVIRONMENTAL SERVICES		
DETAILS ARLINGTON JUNCTION PARK-CIVIL ENGINEERING PLAN 1051 SOUTH EADS STREET ARLINGTON COUNTY, VA		
SCALE: AS SHOWN	SHEET E.003	



TYPICAL CONDUIT INSTALLATION



SHALLOW DEPTH DUCT BANK INSTALLATION

NOTES:

1. TYPICAL CONDUIT INSTALLATION SHALL BE INSTALLED A MINIMUM OF 24" & NO MORE THAN 36" BELOW FINISH GRADE.

LIGHTING CONDUIT INSTALLATION

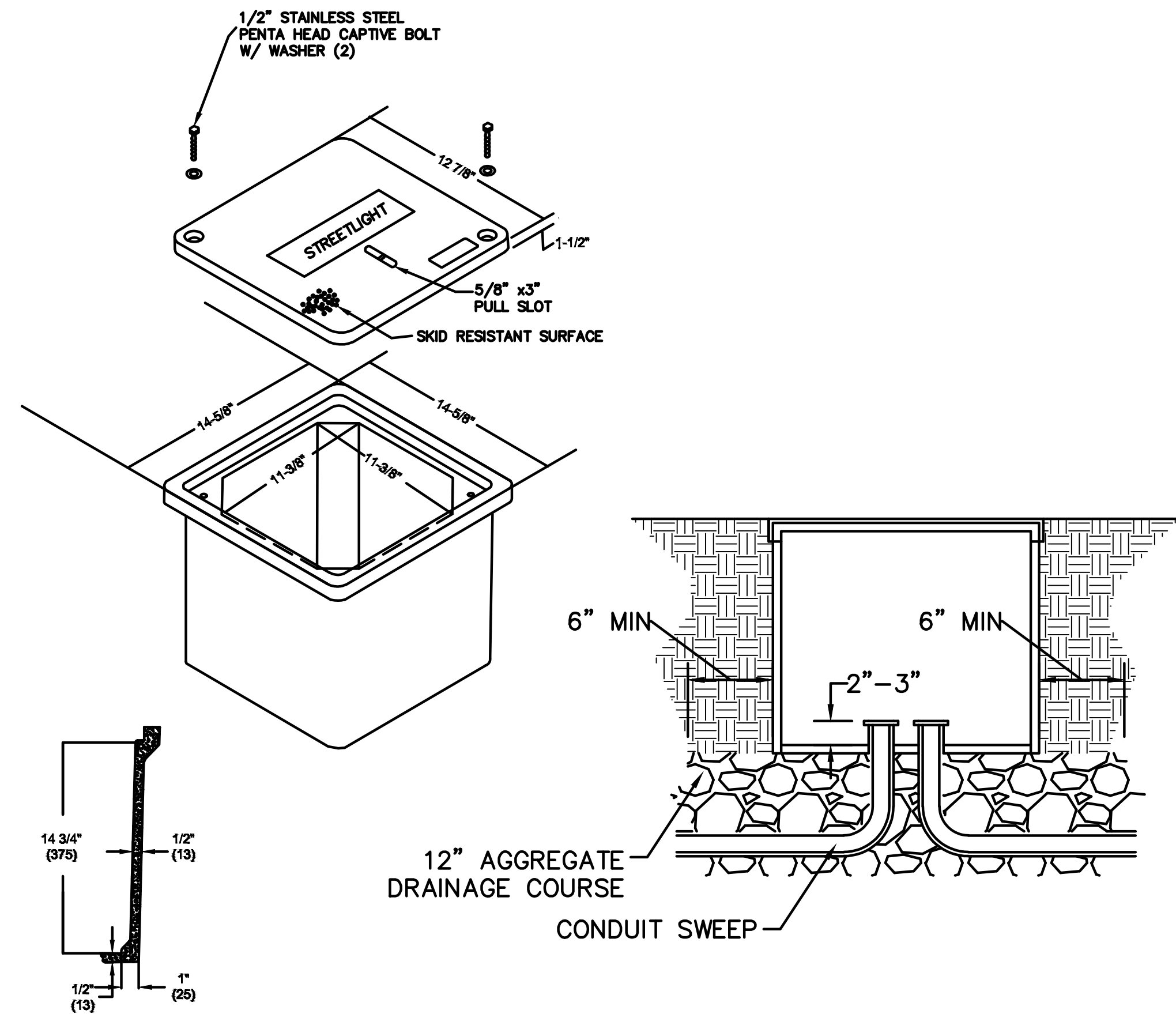
BOXES (STACKABLE) COVERS

DESCRIPTION	DIMENSION A	DESIGN/TEST LOAD #	ANSI TIER*
JUNCTION BOX OPEN BOTTOM	12-7/8"	22,500/33,750	22
COVER HEAVY DUTY W/2 BOLTS	N/A	22,500/33,750	22

DIMENSIONS & WEIGHTS IN PARENTHESES ARE METRIC EQUIVALENT.

* LOADINGS COMPLY WITH ANSCI/SCTE 77

* GASKETED COVERS AND BOLT GROMMETS MUST BE USED WITH A GASKETED BOX. GASKETS REDUCE THE INFLOW OF FLUIDS BUT DO NOT MAKE THE ENCLOSURE WATER TIGHT.

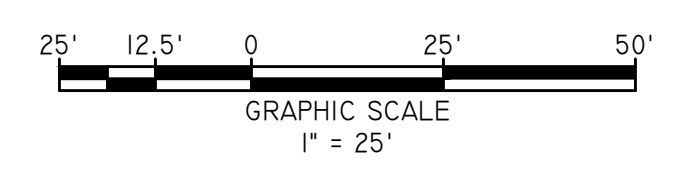
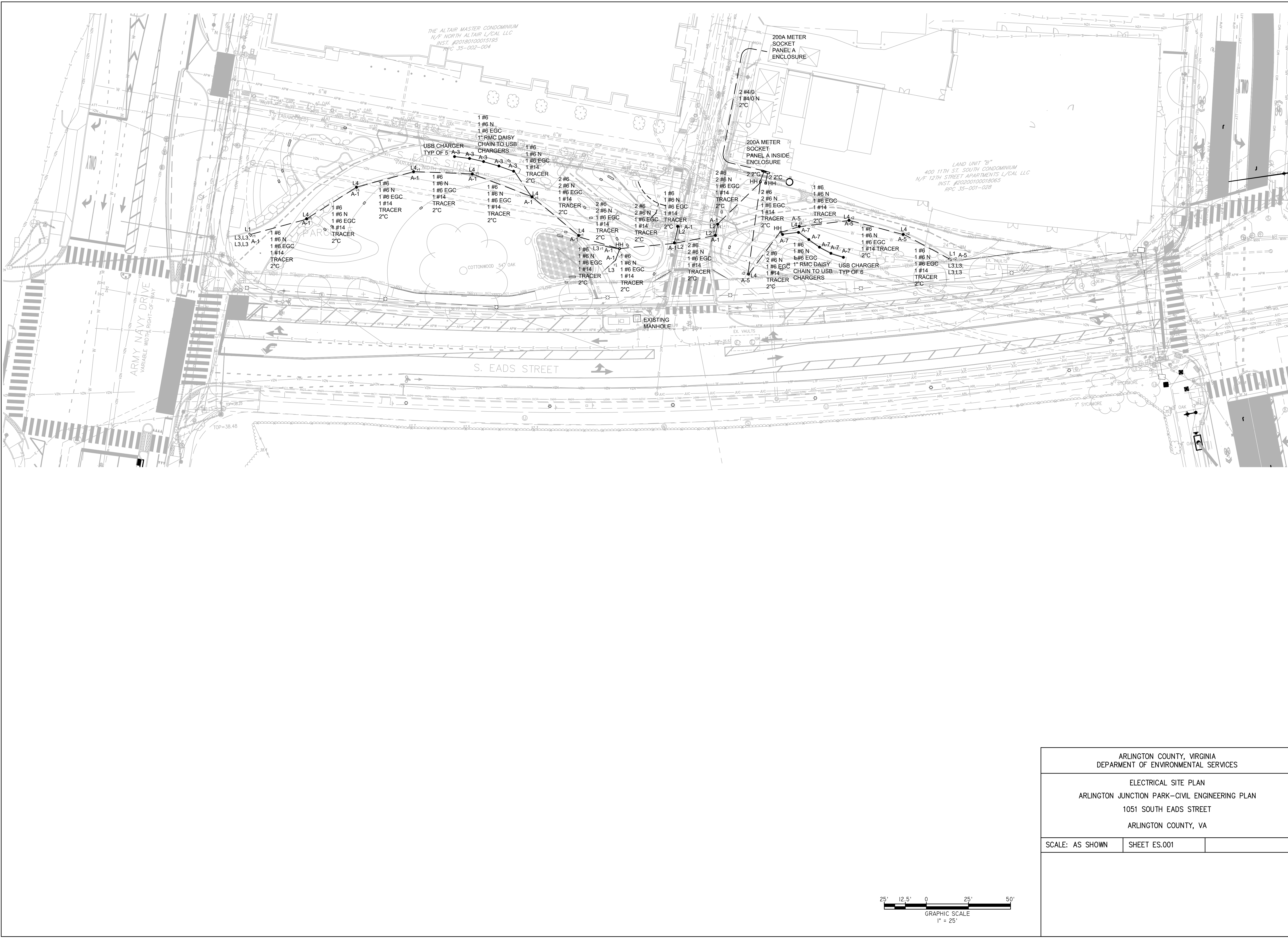


NOTES:

1. ALL CONDUIT SHALL HAVE 2" SEPARATION AND WITH GROUNDING END BUSHING INSTALLED.
2. JUNCTION BOX SHALL HAVE MIN. 4" CLEARANCE NEAR THE CURB.
3. JUNCTION BOX SHALL INCLUDE A GROUND ROD INSTALLED PER NEC.

SMALL JUNCTION BOX

ARLINGTON COUNTY, VIRGINIA DEPARTMENT OF ENVIRONMENTAL SERVICES		
DETAILS ARLINGTON JUNCTION PARK-CIVIL ENGINEERING PLAN 1051 SOUTH EADS STREET ARLINGTON COUNTY, VA		
SCALE: AS SHOWN	SHEET E.004	



DEPARTMENT OF PARKS AND RECREATION
 Park Development Division
 2100 Clarendon Boulevard, Suite 414
 Arlington, VA 22201
 Phone: 703.228.3332
 Fax: 703.228.3328

ITB #23-DPR-ITBPW-450

#SWM 22-0224

Project Name and Location

ARLINGTON JUNCTION PARK

FINAL PLAN

1051 SOUTH EADS STREET

ARLINGTON, VIRGINIA

Sheet Title

ELECTRICAL SITE PLAN

Approval	Date

Revisions	Date
CEP#2	12/21/2022
CEP#3	06/02/2023
BUILDING PERMIT	02/15/2023
REVISED BUILDING PERMIT	04/20/2023
CEP#4	07/21/2023

Designed: JGK
 Drawn: JGK
 Checked: CMR

Filename:
 Plotted:

Scale: AS SHOWN
 Date: July 21, 2023

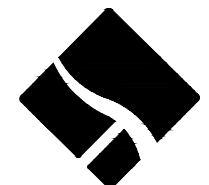


ARLINGTON COUNTY, VIRGINIA
 DEPARTMENT OF ENVIRONMENTAL SERVICES

ELECTRICAL SITE PLAN
 ARLINGTON JUNCTION PARK-CIVIL ENGINEERING PLAN
 1051 SOUTH EADS STREET
 ARLINGTON COUNTY, VA

SCALE: AS SHOWN SHEET ES.001

Sheet
ES.001



ARLINGTON VIRGINIA

DEPARTMENT OF PARKS AND RECREATION

Park Development Division
2100 Clarendon Boulevard, Suite 414
Arlington, VA 22201
Phone: 703.228.3332
Fax: 703.228.3328

ITB #23-DPR-ITBPW-450

#SWM 22-0224

Project Name and Location

ARLINGTON JUNCTION PARK

FINAL PLAN

1051 SOUTH EADS STREET

ARLINGTON, VIRGINIA

Sheet Title

GENERAL NOTES

STRUCTURAL GENERAL NOTES

THESE NOTES APPLY TO CONTRACTORS, SUBCONTRACTORS, MANUFACTURERS, SUPPLIERS, FABRICATORS, ERECTORS, ETC. ENGAGED IN THE EXECUTION OF WORK INDICATED ON THESE DRAWINGS.

A. CODES AND STANDARDS

THE FOLLOWING CODES AND STANDARDS, INCLUDING ALL SPECIFICATIONS REFERENCED WITHIN, SHALL APPLY TO THE DESIGN, CONSTRUCTION, AND QUALITY CONTROL OF ALL WORK PERFORMED ON THE PROJECT. USE THE LATEST EDITION UNLESS NOTED OTHERWISE.

- BUILDING CODES:
 - "INTERNATIONAL BUILDING CODE", IBC 2018.
 - "VIRGINIA UNIFORM STATEWIDE BUILDING CODE", 2018 EDITION.
 - "MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES", ASCE 7-16.
- AMERICAN CONCRETE INSTITUTE (ACI)
 - "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE", ACI 318-14.
 - "ACI MANUAL OF CONCRETE PRACTICE - PARTS 1 THROUGH 5".
- CONCRETE REINFORCING STEEL INSTITUTE (CRSI)
 - "MANUAL OF STANDARD PRACTICE".
- AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC)
 - "STEEL CONSTRUCTION MANUAL", FIFTEENTH EDITION, 2017.
 - "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS", AISC 360-16.
 - "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES", AISC 303-16.
- RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS (RCS)
 - "SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS".
- AMERICAN WELDING SOCIETY (AWS)
 - "STRUCTURAL WELDING CODE - STEEL", ANS/AWS D1.1:2015.

B. DESIGN DATA

- SUPERIMPOSED DEAD LOADS (IN ADDITION TO STRUCTURE SELF-WEIGHT)

AREA	PSF
a. BOARDWALK	10
- LIVE LOADS

AREA	PSF
a. BOARDWALK	100
- SNOW LOAD:
 - GROUND SNOW LOAD (P_g): 25
 - SNOW EXPOSURE FACTOR (C_{se}): 1.0
 - SNOW LOAD IMPORTANCE FACTOR (I_s): 1.0
 - ROOF THERMAL FACTOR (C_t): 1.0
 - FLAT-ROOF SNOW LOAD: $P_f = 0.7 C_{se} C_t P_g$ (BUT NOT LESS THAN 20lbs) = 20 PLUS UNBALANCED, DRIFTING AND SLIDING SNOW WHERE APPLICABLE
 - SLOPED ROOF FACTOR (C_d): 1.0
 - SLOPED ROOF SNOW LOAD: $P_s = C_d P_f = 20 PSF$
- WIND LOADS
 - RISK CATEGORY: II
 - WIND EXPOSURE CATEGORY: B
 - WIND SPEED:
 - ULTIMATE WIND SPEED, 3-SECOND GUST (V_{ult}): 115 mph
 - NOMINAL WIND SPEED, 3-SECOND GUST (V_{asd}): 89 mph
 - MAIN WIND-FORCE RESISTING SYSTEM:
 - WIND LOADS FOR SOLID FREE STANDING WALLS AND SOLID SIGNS
 - FORCE COEFFICIENT FACTOR $C_f = 1.68$
 - RESULTING PRESSURE ON AREA OF SIGN = 24 PSF

C. FOUNDATIONS / GEOTECHNICAL REPORT

- FOUNDATIONS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE RECOMMENDATIONS INCLUDED IN THE GEOTECHNICAL REPORT PREPARED BY DMY ENGINEERING CONSULTANTS, INC. DATED 04/22/22. REPORT NO. 01.05718.01. REFER TO THAT REPORT FOR ADDITIONAL REQUIREMENTS.
- FOUNDATIONS PLACED ON UNDISTURBED SOIL AT ELEVATIONS INDICATED HAVE BEEN DESIGNED FOR A NET ALLOWABLE BEARING PRESSURE OF 1500 PSF.
- STRUCTURAL STEEL HELICAL-PILES 3 TON MINIMUM CAPACITY

D. MATERIALS

THE FOLLOWING ASTM STANDARDS AND DESIGN STRESSES SHALL BE USED FOR THE APPROPRIATE MATERIALS USED IN THE CONSTRUCTION OF THIS PROJECT.

- CEMENT: ASTM C150, TYPE I, II, OR III
 - BLENDED HYDRAULIC CEMENT: ASTM C595, TYPE IS (LIMIT SLAG TO 35% MAX. CONTENT BY WEIGHT)
 - AGGREGATES: ASTM C33 (NORMAL WEIGHT); 1/2" NOMINAL MAXIMUM AGGREGATE SIZE.
 - ADMIXTURES: AIR ENTRAINING ADMIXTURES ASTM C260 CHEMICAL ADMIXTURES ASTM C494
 - CONCRETE: AIR ENTRAIN CONCRETE AS INDICATED BELOW, AND CONCRETE EXPOSED TO EARTH AND WEATHER, 6% ± 1% BY VOLUME UNLESS OTHERWISE NOTED. "HARD TROWEL FINISH NOT RECOMMENDED FOR AIR-ENTRAINED SLABS. "EXTERIOR" MEMBERS ARE THOSE FULLY OR PARTIALLY OUTSIDE OF THE CONDITIONED BUILDING ENVELOPE AND FULLY OR PARTIALLY ABOVE THE FROST DEPTH.
- | APPLICATION | f_c @ 28 DAYS (PSI) | ACI WT (PCF) | EXP. CLASS | W/C RATIO (MAX) | AIR-ENTRAIN |
|-------------|-----------------------|--------------|------------|-----------------|-------------|
| a. FOOTINGS | 3000 | 145 | F0 | 0.55 | Y |
- DEFORMED REINFORCING BARS ASTM A615, GRADE 60
 - HOT-DIP GALVANIZING ASTM A767

7. STEEL:

- HOLLOW STRUCTURAL SECTIONS (HSS) ASTM A500, GRADE C: $F_y = 50$ KSI
- OTHER STRUCTURAL SHAPES AND PLATES ASTM A36, $F_y = 36$ KSI
- HIGH-STRENGTH BOLTS ASTM F3125, GRADE A325 / F1852
- WELDING ELECTRODES AWS A5.1 OR A5.5, E70XX (STRUCTURAL STEEL)
- HOT-DIPPED GALVANIZING ASTM A123 / ASTM A153 / ASTM F2329

E. CONSTRUCTION

- GENERAL:
 - THESE DRAWINGS REPRESENT THE COMPLETED PROJECT WHICH HAS BEEN DESIGNED FOR THE LOADS INDICATED IN THE DESIGN DATA. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE PROPER ERECTION PROCEDURES, ALLOWABLE CONSTRUCTION LOADS AND PROVIDE PROPER DESIGN AND CONSTRUCTION OF FALSEWORK, FORMWORK, BRACING, SHEETING AND SHORING, ETC.
 - IMPLEMENTING JOB SITE SAFETY AND CONSTRUCTION PROCEDURES ARE SOLELY THE RESPONSIBILITY OF THE CONTRACTOR.
 - THE STRUCTURAL DRAWINGS ARE INTENDED TO INDICATE THE MAIN STRUCTURAL FEATURES FOR THE PROJECT. ANY NON-STRUCTURAL DETAILS SHOWN ARE SCHEMATIC IN NATURE AND MAY NOT REFLECT THE COMPLETE CONSTRUCTION. THE PROJECT CIVIL DRAWINGS MUST BE USED IN CONJUNCTION WITH THE PROJECT STRUCTURAL DRAWINGS DURING ALL PHASES OF CONSTRUCTION. ANY DISCREPANCIES BETWEEN THE PROJECT STRUCTURAL DRAWINGS AND THE SPECIFICATIONS AND DRAWINGS OF THE OTHER DISCIPLINES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO COMMENCING THE WORK.
 - REFER TO CIVIL DRAWINGS FOR DIMENSIONS NOT SHOWN.
 - DO NOT SCALE THE STRUCTURAL DRAWINGS.
 - IN CASE OF CONFLICT BETWEEN THE GENERAL NOTES, AND DRAWINGS, THE MOST RIGID REQUIREMENTS GOVERN.
 - STORE AND HANDLE STRUCTURAL CONSTRUCTION MATERIALS TO PREVENT ANY ADVERSE EFFECTS ON THE PHYSICAL PROPERTIES OF THE MATERIAL.
 - PAY ALL COSTS, INCLUDING INVESTIGATION AND/OR REDESIGN, DUE TO CONTRACTOR MISLOCATION OF STRUCTURAL ELEMENTS OR OTHER LACK OF CONFORMANCE WITH THE CONTRACT DOCUMENTS TO BRING WORK IN COMPLIANCE WITH THE CONTRACT DOCUMENTS.
- SHOP DRAWINGS AND SUBMITTALS:
 - REPRODUCTION OF ANY PORTION OF THE STRUCTURAL CONTRACT DRAWINGS FOR RESUBMITTAL AS SHOP DRAWINGS IS PROHIBITED. SHOP DRAWINGS PRODUCED IN SUCH A MANNER WILL BE REJECTED WITHOUT REVIEW AND RETURNED.
 - SUBMIT SHOP DRAWINGS AT LEAST 15 BUSINESS DAYS BEFORE DATE REVIEWED SUBMITTALS WILL BE NEEDED. SHOP DRAWINGS SHALL BEAR THE CONTRACTOR'S STAMP OF APPROVAL WHICH SHALL CONSTITUTE CERTIFICATION THAT THE CONTRACTOR HAS VERIFIED ALL FIELD MEASUREMENTS, CONSTRUCTION CRITERIA, MATERIALS AND SIMILAR DATA AND HAS CHECKED EACH DRAWING FOR COMPLETENESS, COORDINATION AND COMPLIANCE WITH THE CONTRACT DOCUMENTS.
 - THE DETAILS, MATERIALS AND PRODUCTS SPECIFIED OR REFERENCED IN THESE DRAWINGS CONSTITUTE THE ENGINEERED DESIGN FOR THIS PROJECT. PROPOSED SUBSTITUTION OF ALTERNATE DETAILS, MATERIALS OR PRODUCTS (i.e., CONTRACTOR REDESIGN) WILL ONLY BE CONSIDERED IF REQUESTED IN WRITING TO THE SER AT LEAST 14 DAYS IN ADVANCE OF ANY SUBMITTAL THAT IS AFFECTED BY THE PROPOSED SUBSTITUTION. **SUBSTITUTIONS WHICH APPEAR ON ANY SHOP DRAWING SUBMITTAL WHICH HAVE NOT BEEN PREVIOUSLY ACCEPTED BY THE SER WILL BE DISAPPROVED AND RETURNED FOR CORRECTION.** THE WRITTEN REQUEST MUST INCLUDE THE FOLLOWING:
 - SPECIFICALLY IDENTIFY THE PROPOSED SUBSTITUTION AND CLEARLY INDICATE IF IT WILL INCLUDE STRUCTURAL ENGINEERING ANALYSIS TO SUBSTANTIATE ITS ADEQUACY. SUBSTITUTIONS WHICH REQUIRE ADDITIONAL ANALYSIS ON THE PART OF THE SER WILL BE SUBJECT TO A FEE FOR SUCH SERVICES.
 - PROVIDE PRELIMINARY APPROVAL OF SUBSTITUTION BY OWNER, GC, AND ARCHITECT.
 - PROVIDE CERTIFICATION THAT EFFECTS ON OTHER TRADES HAVE BEEN CONSIDERED AND RESOLVED.
 - PROVIDE COST REDUCTION TO BE CREDITED TO OWNER.
 - SUBMIT CALCULATIONS AND DRAWINGS CONCURRENTLY FOR EACH OF THE FOLLOWING ASSEMBLIES. DESIGN EACH ASSEMBLY UNDER THE DIRECT SUPERVISION OF AN ENGINEER REGISTERED IN THE PROJECT'S JURISDICTION. ALL PORTIONS OF SUBMITTALS SHALL BEAR THE ENGINEER'S SEAL AND SIGNATURE. UNSEALED SUBMITTALS WILL BE RETURNED AND REJECTED WITHOUT REVIEW. REVIEW SHALL BE FOR GENERAL CONFORMANCE WITH THE PROJECT PARAMETERS AS INDICATED ON THE DRAWINGS AND IN THE GENERAL NOTES, AND FOR IMPACTS ON THE SUPPORTING STRUCTURAL SYSTEM. DESIGN FOR ALL GRAVITY AND LATERAL LOADS AND OTHER EFFECTS (INCLUDING CREEP, SHRINKAGE, THERMAL, ETC.) REQUIRED BY APPLICABLE CODES AND STANDARDS AS WELL AS THOSE INDICATED ON THE DRAWINGS.
 - FORMWORK, SHORES, AND RESHORES
 - INDICATE PLAN OF STRIPPING AND RESHORING PROCEDURES AND OPERATIONS ON SHOP DRAWINGS.
 - DESIGN FORMWORK, SHORING, AND RESHORING SYSTEMS TO ACCOUNT FOR ADDITIONAL LOADS RESULTING FROM POST-TENSIONING STRESSING SERVICES INDICATED.
 - REMOVAL OF FORMS IS NOT PERMITTED UNTIL CONCRETE HAS ACHIEVED A MINIMUM 3,000 PSI COMPRESSIVE STRENGTH, ENABLING THE MEMBERS TO CARRY THEIR DEAD LOAD AND ANTICIPATED CONSTRUCTION LOADS.
 - REMOVAL OF FORMS IS NOT PERMITTED UNTIL SUFFICIENT PRESTRESSING HAS BEEN APPLIED TO ENABLE THE MEMBERS TO CARRY THEIR DEAD LOAD AND ANTICIPATED CONSTRUCTION LOADS.
 - HELICAL PILES
 - REFER TO PROJECT DRAWINGS AND GEOTECHNICAL REPORT FOR CRITERIA AND REQUIREMENTS.
 - SPECIALTY ENGINEERING CALCULATIONS SHALL BE JUSTIFY REQUIRED FOUNDATION CAPACITY FOR STRENGTH AND SERVICEABILITY (SETTLEMENT).
 - ALONG WITH DESIGN SUBMITTAL, INCLUDE PROPOSED PROCEDURES AND ACCEPTANCE CRITERIA, PREPARED BY THE SPECIALTY ENGINEER, FOR COMPRESSION AND TENSION MODULUS TESTING.
 - PYLON SLON ANND MISTING ASSEMBLY
 - SHALL BE DESIGNED BY MANUFACTURER OR VENDOR'S ENGINEER FOR LATERAL WIND FORCES INDICATED IN THE DESIGN DATA.
 - SUBMITTALS AND CERTIFICATIONS, IN ADDITION TO STANDARD INDUSTRY PRACTICE
 - CAST-IN-PLACE CONCRETE
 - CONCRETE MIX DESIGNS, INCLUDING DOCUMENTATION USED TO DETERMINE STANDARD DEVIATION IN ACCORDANCE WITH ACI 301. IF CEMENTITIOUS SUBSTITUTES OR ADMIXTURES ARE TO BE USED, PROVIDE DOCUMENTATION IN THE MIX DESIGN THAT INDICATES CONFORMANCE TO THE MAXIMUM PERCENTAGE OF SUBSTITUTE.
 - CERTIFICATIONS OF REINFORCING STEEL COMPLIANCE WITH REFERENCED STANDARDS.
 - STRUCTURAL STEEL

- CERTIFIED COPIES OF MILL TEST REPORTS FOR RECORD PURPOSES ONLY
 - ALL WELD PROCEDURE SPECIFICATIONS THAT ARE QUALIFIED BY TEST (IN ACCORDANCE WITH AWS D1.1), ACCOMPANIED BY PROCEDURE QUALIFICATION RECORDS AND ELECTRODE DATA SHEETS.
- INSPECTION AND TESTING:
 - SPECIAL INSPECTIONS, IN ACCORDANCE WITH IBC CHAPTER 17, ARE REQUIRED. THE OWNER WILL ENGAGE A SPECIAL INSPECTIONS ENGINEER OF RECORD (SIER) TO PERFORM THE SERVICES INDICATED.
 - REQUIRED INSPECTIONS ARE SHOWN ON DRAWING _____
 - CONTRACTOR SHALL REGULARLY PROVIDE SIER WITH A CURRENT CONSTRUCTION SCHEDULE SO THAT THE REQUIRED INSPECTIONS CAN BE PROVIDED IN A TIMELY MANNER.
 - THE OWNER WILL ENGAGE AN APPROVED, QUALIFIED, TESTING AGENCY TO PROVIDE TESTING AND INSPECTION SERVICES, IN ADDITION TO THE SPECIAL INSPECTION REQUIREMENTS, AS INDICATED BELOW. SUBMIT REPORTS TO THE SER AND CODE OFFICIAL (AS APPLICABLE).
 - SOILS TESTING
 - TEST ALL DIFFERING FOUNDATION SUBGRADE SOIL STRATA OBSERVED IN A MINIMUM OF ONE LOCATION FOR EACH FOR MINIMUM REQUIRED BEARING CAPACITY (INDICATED EARLIER IN THESE NOTES). SUBSEQUENT VERIFICATION OF BEARING CAPACITY AT OTHER LOCATIONS MAY BE BY VISUAL COMPARISON WITH TESTED LOCATIONS.
 - TESTING AGENCY WILL TEST COMPACTION OF STRUCTURAL FILL PER ASTM D1556, ASTM D2167, ASTM D2922, AND ASTM D2937, AS APPLICABLE. TEST A MINIMUM OF THREE LOCATIONS RANDOMLY LOCATED ACROSS THE BUILDING PAD. TEST ADDITIONAL AREAS IF POOR CONDITIONS ARE OBSERVED.
 - NOTIFY CONTRACTOR AND A/E OF AREAS FAILING TO MEET DESIGN REQUIREMENTS AND WHICH REQUIRE RECOMPACTIONS AND REINSEPCION.

- CAST-IN-PLACE CONCRETE:
 - THE AGENCY SHALL INSPECT THE FORMWORK, AND REINFORCING STEEL PLACEMENT FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS AND SHOP DRAWINGS. THE AGENCY SHALL MONITOR ALL STRUCTURAL CONCRETE PLACEMENTS FOR CONFORMANCE WITH APPLICABLE ACI REQUIREMENTS.
 - UNLESS OTHERWISE NOTED AND/OR APPROVED IN WRITING BY THE SER, SAMPLING FOR TESTING AND INSPECTION OF CONCRETE SHALL BE AT THE POINT OF PLACEMENT.
 - THE FOLLOWING NUMBER OF 6"x12" TEST CYLINDERS SHALL BE CAST FOR EACH DAY'S POUR OR EACH 50 CUBIC YARDS, WHICHEVER RESULTS IN MORE TEST CYLINDERS:

FOR FOOTINGS AND OTHER STRUCTURAL CONCRETE	2 @ 7 DAYS, LAB CURED
2 @ 28 DAYS, LAB CURED	
 - THE AGENCY SHALL OBTAIN AND TEST FIELD-CORED SAMPLES OF IN-PLACE CONCRETE AT THE CONTRACTOR'S EXPENSE WHEN TEST RESULTS INDICATED SPECIFIED CONCRETE STRENGTHS HAVE NOT BEEN ATTAINED. CORING LOCATIONS AND QUANTITIES SHALL BE DIRECTED BY THE SER.
 - INSPECTION BY AN APPROVED TESTING AGENCY IS REQUIRED FOR ALL POST-TENSIONED WORK.
- STRUCTURAL STEEL:
 - THE AGENCY SHALL REVIEW PREQUALIFIED WELD PROCEDURE SPECIFICATIONS IN ACCORDANCE WITH AWS D1.1, SECTION 6.3.1.
 - THE AGENCY SHALL VISUALLY INSPECT ALL FILLET WELDS, SHEAR STUDS, AND BOLTED CONNECTIONS.
 - THE AGENCY SHALL PERFORM WELDING INSPECTION AND TESTING PROCEDURES IN ACCORDANCE WITH THE AWS CODE.
 - TEST 10% OF ALL FIELD FILLET WELDS IN PRIMARY CONNECTIONS AND MULTI-PASS WELDS BY THE MAGNETIC PARTICLE METHOD ASTM E709.
 - TEST ANY WELD FOR WHICH VISUAL EXAMINATION INDICATES AN UNUSUAL CONDITION AND/OR POOR QUALITY.

F. FOUNDATIONS AND STRUCTURAL EARTHWORK

- GENERAL:
 - REFER TO PROJECT SPECIFICATION AND GEOTECHNICAL REPORT REQUIREMENTS FOR EXCAVATION AND PREPARATION OF THE FOUNDATION AND SLAB-ON-GRADE SUBGRADES, INCLUDING COMPACTION PROCEDURES. **REQUIREMENTS CONTAINED IN THE GEOTECHNICAL REPORT ARE PART OF THIS WORK.**
 - VERIFY ALL EXISTING FIELD CONDITIONS THAT MAY AFFECT THE INSTALLATION OF THE FOUNDATION SYSTEM AS SHOWN PRIOR TO STARTING WORK. COMPACTED STRUCTURAL FILL SHALL BE PROVIDED WHERE NATURAL SOILS ARE FOUND TO BE INSUFFICIENT TO SUPPORT THE NEW FOUNDATIONS.
 - WHERE REQUIRED, SCARIFY AND RECOMPACT TOP 12" OF EXISTING SUBGRADE UNDER FOOTING TO 95% OF MAXIMUM DRY UNIT WEIGHT PER ASTM D698 (STANDARD PROCTOR).
 - WHERE REQUIRED WHERE REQUIRED, COMPACT ALL NEW STRUCTURAL FILL TO 95% OF MAXIMUM DRY UNIT WEIGHT PER ASTM D698 AT 2% OF OPTIMUM MOISTURE CONTENT. PLACE FILL IN 8" LIFTS IF USING HEAVY EQUIPMENT FOR COMPACTION. FOR LIGHT, HAND-OPERATED EQUIPMENT, PLACE FILL IN 4" LIFTS. STRUCTURAL FILL IS ONLY REQUIRED AT BEARING OF NEW FOOTINGS.
 - WHERE REQUIRED, STRUCTURAL FILL AND BACKFILL SHALL CONSIST OF SOIL MEETING CLASSIFICATIONS GW, GP, GM, SW, AND SP ACCORDING TO ASTM D2487. SOILS SHALL BE WITHIN 2% OF OPTIMUM MOISTURE CONTENT AT TIME OF COMPACTION. IF SUITABLE QUANTITIES OF ON-SITE SOILS MEETING THESE CLASSIFICATIONS ARE NOTE AVAILABLE, PROVIDE OFF-SITE BORROW MATERIAL.
 - LOCATE AND PROTECT ALL EXISTING UTILITIES, WHETHER INDICATED OR NOT, WHICH MAY BE AFFECTED BY THE CONSTRUCTION PROCESS.
 - INSTALL, MAINTAIN, MONITOR AND REMOVE EARTH RETENTION SYSTEMS IN ACCORDANCE WITH THE APPROVED SHOP DRAWINGS PREPARED UNDER THE DIRECT SUPERVISION OF THE SPECIALTY ENGINEER FOR EARTH RETENTION SYSTEM DESIGN. COORDINATE ELEMENTS OF EARTH RETENTION SYSTEM SO AS TO NOT INTERFERE WITH PERMANENT BUILDING ELEMENTS.
 - PROTECT EXISTING AND NEW STRUCTURES FROM DAMAGE BY CONSTRUCTION EQUIPMENT. REPAIR DAMAGE OF EXISTING AND NEW CONSTRUCTION CAUSED BY CONSTRUCTION TECHNIQUES OR MOVEMENT OF EARTH RETENTION SYSTEM.
 - REFER TO PLUMBING DRAWINGS FOR PERIMETER DRAIN AND UNDERFLOOR DRAINAGE SYSTEM.
 - DO NOT PLACE UTILITY LINES THROUGH OR BELOW FOUNDATIONS WITHOUT THE APPROVAL OF THE SER.
 - BEAR ALL FOUNDATIONS ON UNDISTURBED SOIL OR COMPACTED STRUCTURAL FILL. DETERMINATION OF FINAL BEARING ELEVATIONS AND FIELD VERIFICATION OF ALLOWABLE BEARING PRESSURE SHALL BE MADE BY A LICENSED GEOTECHNICAL ENGINEER PRIOR TO PLACING FOUNDATIONS. NOTIFY THE SER WHEN ADDITIONAL EXCAVATION IS REQUIRED TO REACH SUITABLE BEARING MATERIAL.

- BEAR FOUNDATIONS A MINIMUM OF 2'-6" BELOW GRADE UNLESS OTHERWISE INDICATED. IN CASE OF CONFLICT, NOTIFY THE ARCHITECT AND SER IN ADVANCE OF ANY CONSTRUCTION TO ALLOW FOR ADJUSTMENT.
- THE SLOPE BETWEEN THE LOWER EDGES OF ADJACENT FOOTINGS NOT TO EXCEED 1:5H:1.0V, UNLESS INDICATED OTHERWISE IN THE GEOTECHNICAL REPORT. PROTECT SUBGRADES, SLOPES AND FOOTINGS FROM DAMAGE CAUSED BY LATERAL MOVEMENT, UNDERMINING, SETTLEMENT AND OTHER HAZARDS CREATED BY EXCAVATION.
- DO NOT USE EARTH CUTS AS FORMS FOR VERTICAL SURFACES UNLESS APPROVED IN ADVANCE BY THE SER.
- PLACE CONCRETE FOR FOUNDATIONS OR MUD SLABS ON THE SAME DAY SUBGRADE APPROVAL IS GIVEN BY THE GEOTECHNICAL ENGINEER.
- PROTECT CONCRETE FOUNDATIONS FROM FREEZING DURING PLACING AND FOR A PERIOD OF NOT LESS THAN 5 DAYS THEREAFTER.
- PROVIDE CONTINUOUS WATERSTOP AT ALL HORIZONTAL AND VERTICAL CONSTRUCTION JOINTS IN BASEMENT WALLS AND ALL PIT WALLS.

G. CAST-IN-PLACE CONCRETE

- GENERAL:
 - COMPLY WITH REQUIREMENTS OF "STANDARD SPECIFICATIONS FOR STRUCTURAL CONCRETE" (ACI 301), EXCEPT AS MODIFIED BY THESE NOTES. KEEP COPY OF "ACI FIELD REFERENCE MANUAL, MNL-15" IN FIELD OFFICE.
 - PROVIDE MINIMUM CLEAR COVER FOR REINFORCING AS FOLLOWS, UNLESS OTHERWISE NOTED IN THE DRAWINGS:
 - NON-POST-TENSIONED CONCRETE:
 - CONCRETE CAST AGAINST AND PERMANENTLY IN CONTACT WITH GROUND: 3"
 - SPlice REINFORCEMENT AS DETAILED OR AUTHORIZED BY THE SER. MAKE BARS CONTINUOUS AROUND CORNERS. SPLICES SHALL BE MADE BY CONTACT TENSION LAP SPLICES, UNLESS OTHERWISE NOTED.
 - WELDING OF REINFORCING IS NOT PERMITTED.
 - FIELD BENDING OF REINFORCING PARTIALLY EMBEDDED IN CONCRETE IS NOT PERMITTED UNLESS OTHERWISE SHOWN OR APPROVED BY THE SER.
 - FURNISH ALL ACCESSORIES, CHAIRS, SPACE BARS, SUPPORTS, ETC. NECESSARY TO SECURE REINFORCING.
 - PROVIDE PLASTIC TIPPED BOLSTERS AND CHAIRS AT ALL LOCATIONS WHERE THE CONCRETE SURFACE IN CONTACT WITH THE BOLSTERS OR CHAIRS IS EXPOSED.
 - ERECT AND REMOVE FORMWORK, SHORES AND RESHORES IN ACCORDANCE WITH THE APPROVED SHOP DRAWINGS PREPARED, SIGNED AND SEALED BY THE ENGINEER REGISTERED IN THE PROJECT'S JURISDICTION.
 - ANY STOP IN CONCRETE WORK MUST BE MADE WITH VERTICAL BULKHEADS AND KEYS, UNLESS OTHERWISE SHOWN.
 - HORIZONTAL JOINTS ARE NOT PERMITTED IN FOUNDATIONS, PILE CAPS, SLABS, BEAMS, GIRDERS AND JOISTS.
 - CORE DRILLING, CHIPPING, OR TRENCHING OF ANY CONCRETE ELEMENT IS NOT PERMITTED UNLESS AUTHORIZED IN WRITING BY THE SER.

H. STRUCTURAL STEEL

- PREPARE WRITTEN WELD PROCEDURE SPECIFICATIONS (WPS), IN ACCORDANCE WITH AWS D1.1, FOR ALL WELDING PROCEDURES TO BE USED ON PROJECT. A COPY OF ALL WPS SHALL BE MAINTAINED ON SITE AT ALL TIMES.
- OBTAIN CURRENT EVIDENCE OF WELDERS PASSING THE APPROPRIATE AWS QUALIFICATION TESTS. SUCH EVIDENCE MAY BE REQUESTED AT ANY TIME DURING THE PROJECT.
- PROVIDE ACCESS FOR INSPECTION OF ALL SHOP AND FIELD CONNECTIONS FOR PROPER MATERIALS AND WORKMANSHIP.
- ALTERNATE CONNECTION DESIGNS SHALL ONLY BE ALLOWED WITH PRIOR APPROVAL OF THE SER.** IF SUCH APPROVAL IS GRANTED, DESIGN ALL CONNECTIONS, SPLICES, AND ERECTION PIECES NOT IN ACCORDANCE WITH CONTRACT DRAWINGS (FABRICATOR REDESIGN) UNDER THE DIRECT SUPERVISION OF THE ENGINEER REGISTERED IN THE PROJECT'S JURISDICTION. SUBMIT CALCULATIONS AND SHOP DRAWINGS BEARING THE ENGINEER'S SEAL AND SIGNATURE.
- USE HIGH STRENGTH BOLTS AND NUTS WITH CLEAR MARKINGS AS REQUIRED BY AISC SPECIFICATIONS. CONNECTIONS MADE WITH UNMARKED BOLTS AND NUTS WILL BE REJECTED.
- TIGHTEN ALL HIGH-STRENGTH BOLTS TO THE "SNUG TIGHT" CONDITION (DEFINED AS ALL PLIES OF THE CONNECTED MATERIAL HAVE BEEN BROUGHT INTO TIGHT CONTACT).
- WELDS INDICATED AS FIELD WELDS MAY BE MADE IN THE FIELD OR SHOP AT THE CONTRACTOR'S DISCRETION. WELDS INDICATED AS SHOP WELDS SHALL BE MADE IN THE SHOP UNLESS SPECIFICALLY APPROVED OTHERWISE BY THE STRUCTURAL ENGINEER.
- HOT-DIP GALVANIZE ALL STRUCTURAL STEEL FRAMING IN EXTERIOR LOCATIONS.
- NOTIFY THE SER OF ANY FABRICATION OR ERECTION ERRORS OR DEVIATIONS AND RECEIVE WRITTEN APPROVAL BEFORE ANY FIELD CORRECTIONS ARE MADE.
- REPLACE OR REINFORCE ANY STRUCTURAL STEEL DAMAGED DURING CONSTRUCTION AS ACCEPTABLE TO THE SER.
- FIELD CUTTING WITH GAS TORCH IS NOT PERMITTED.

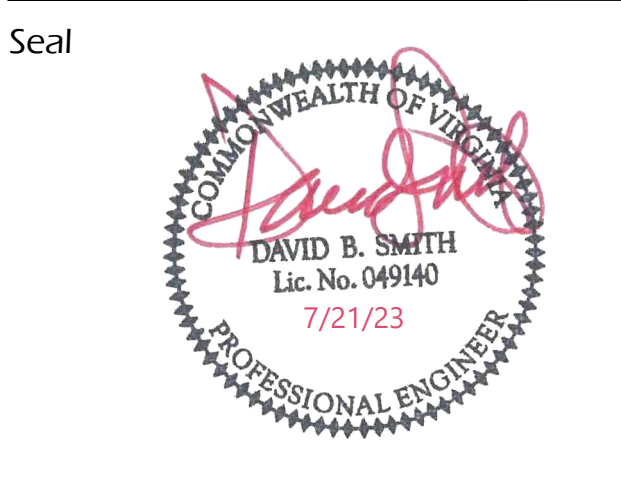
ARLINGTON COUNTY, VIRGINIA DEPARTMENT OF ENVIRONMENTAL SERVICES		
ARLINGTON JUNCTION PARK-CIVIL ENGINEERING PLAN		
1051 SOUTH EADS STREET ARLINGTON COUNTY, VA		
SCALE: AS SHOWN	SHEET S-100P	

Approval _____ Date _____
Design Supervisor _____

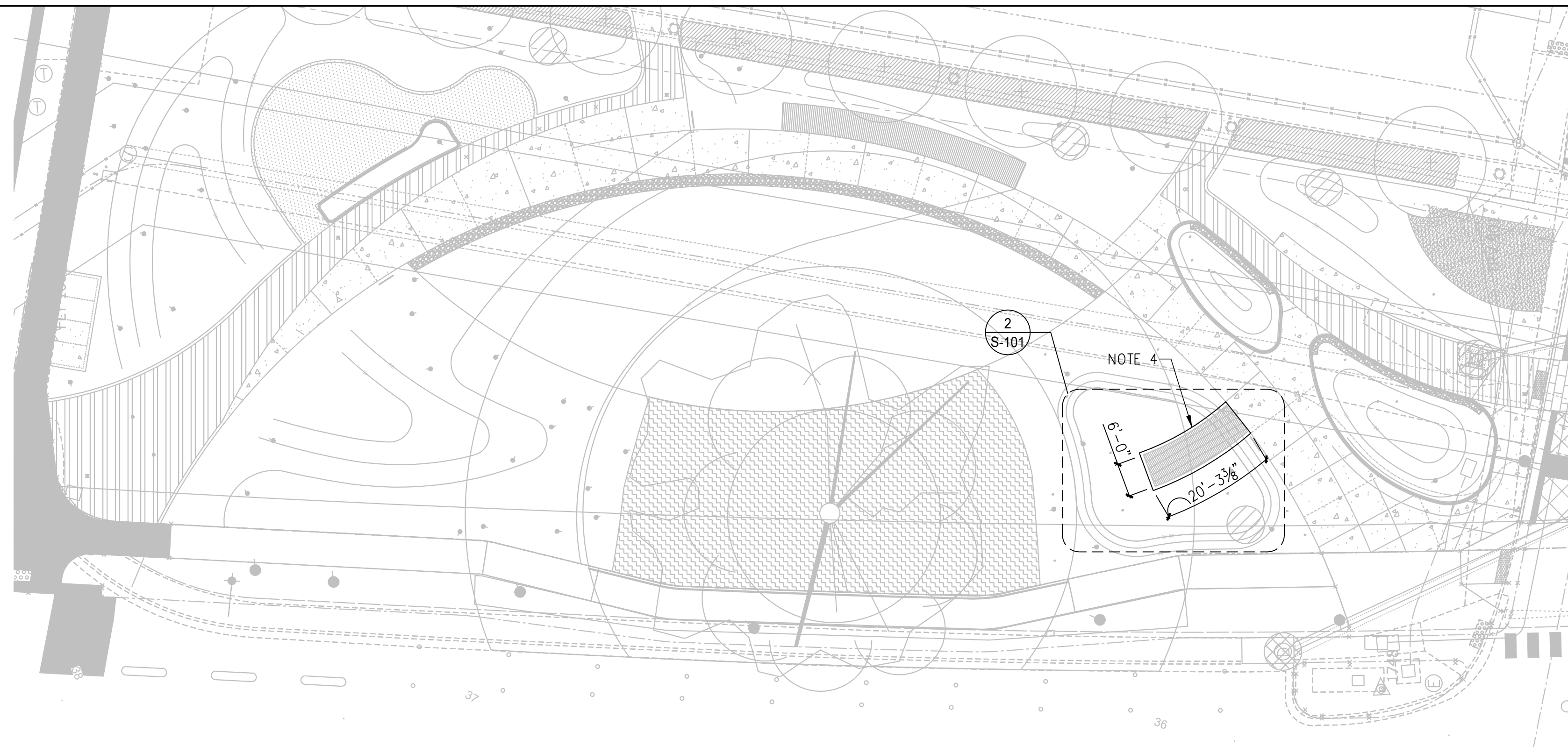
Revisions	Date
CEP#2	12/21/2022
CEP#3	06/02/2023
BUILDING PERMIT	02/15/2023
REVISED BUILDING PERMIT	04/20/2023
CEP#4	07/21/2023

Designed: HA
Drawn: HA
Checked: DBS

Filename: _____
Plotted: _____
Scale: AS SHOWN
Date: July 21, 2023



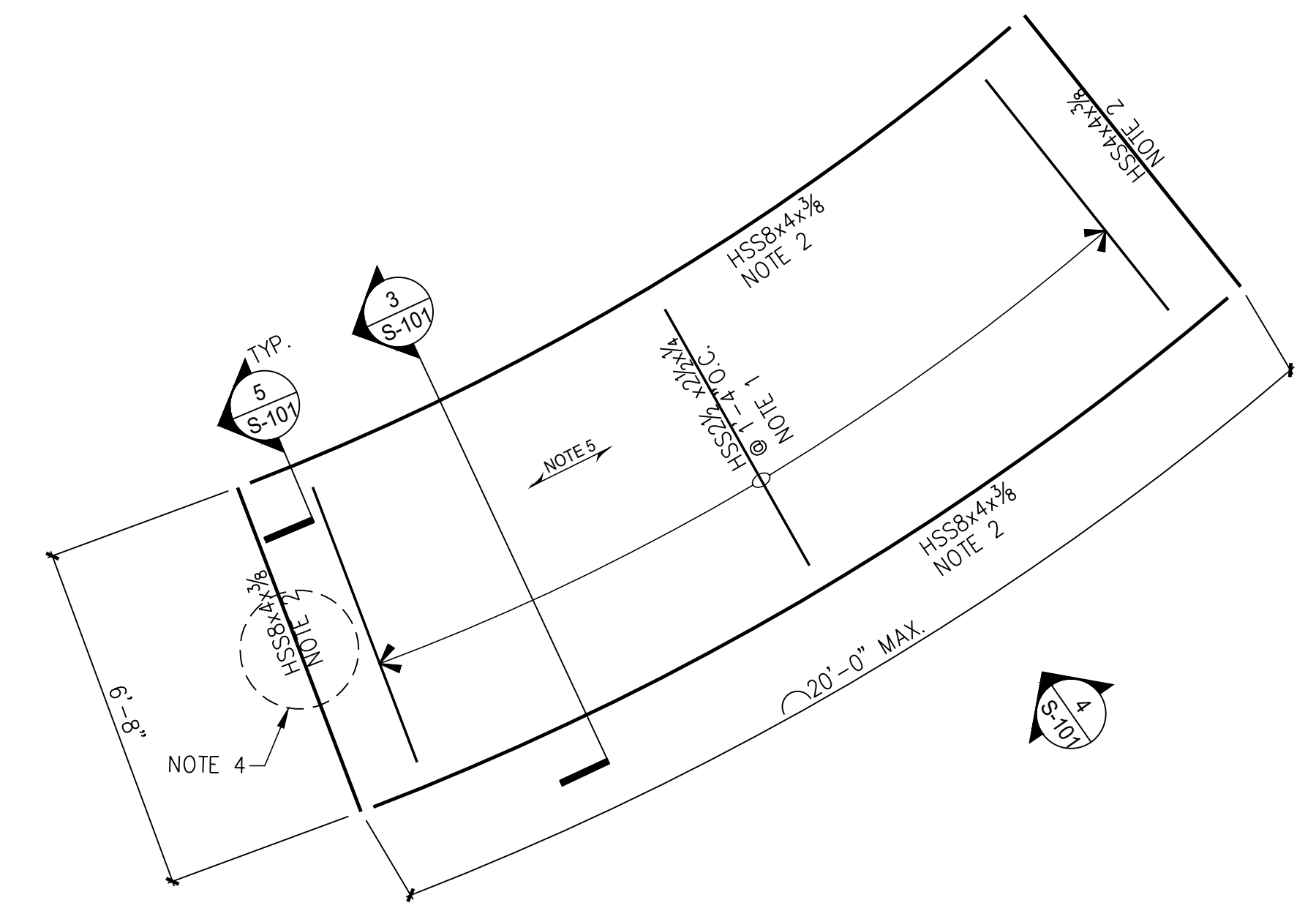
Sheet
S-100P



1 BOARDWALK KEY PLAN
1/16"=1'-0"

PLAN NOTES

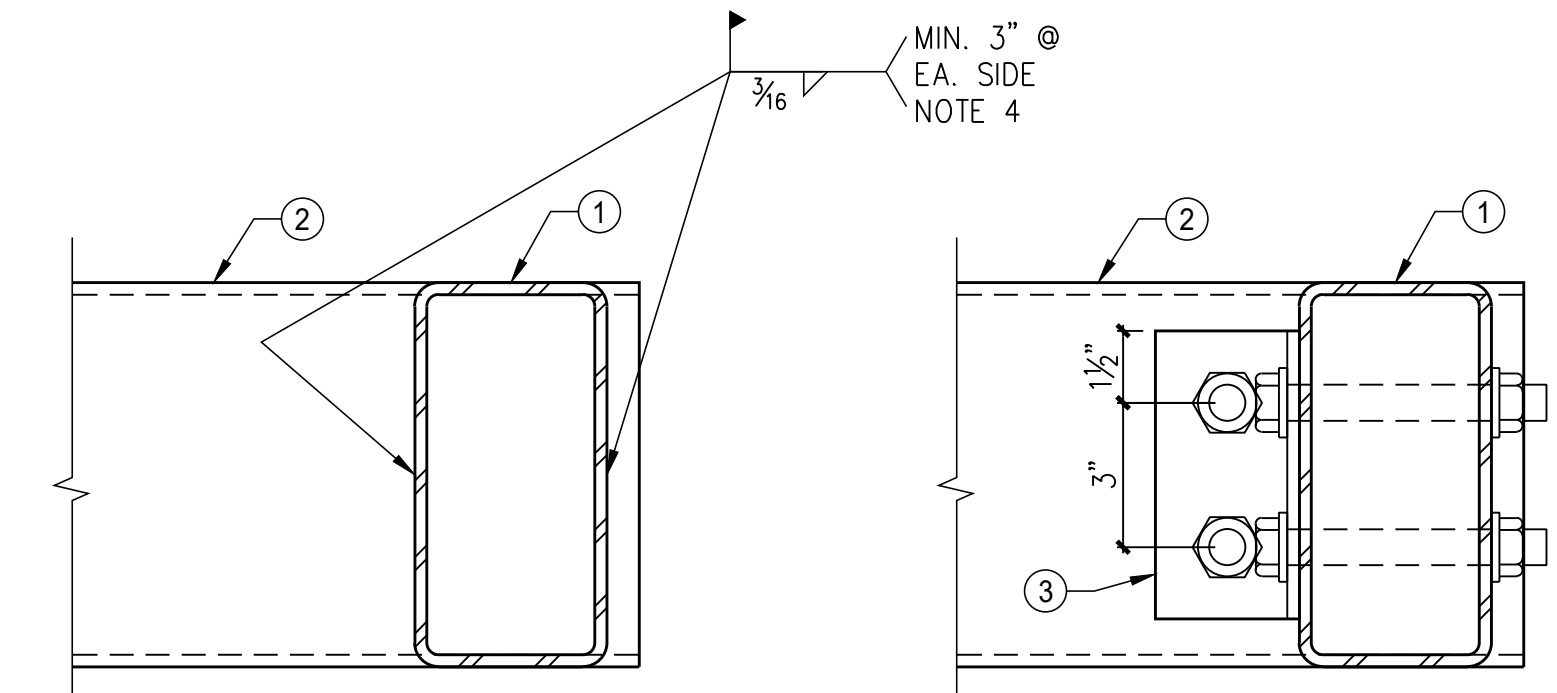
- 1) SEE S-100 FOR GENERAL NOTES
- 2) CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS, DIMENSIONS, ETC. AFFECTING THE NEW WORK SHOWN.
- 3) BACKGROUND SITE PLAN INFORMATION SHOWN HALF TONE IS SHOWN FOR REFERENCE ONLY. SEE CIVIL DRAWINGS FOR SITE PLAN INFORMATION INCLUDING PROPERTY LINES, LIMITS OF DISTURBANCE, GRADING INFO, ETC.
- 4) NEW BOARDWALK. SEE 2/S-101 FOR TYPICAL FRAMING AND 3/S-101 AND 4/S-101 FOR TYPICAL DETAILS.
- 5) ALL STRUCTURAL STEEL BE HOT-DIPPED GALVANIZED.
- 6) SEE S-100 FOR GENERAL NOTES.
- 7) SEE S-102 FOR ANCHORAGE DETAILS OF LANDSCAPE DESIGN ELEMENTS.



2 BORADWALK SECTION FRAMING PLAN
3/8"=1'-0"

- 1) HSS2½x2½ JOISTS @ 2'-0" MAX. O.C. - TYP.
- 2) HSS8x4x¾ UPTURNED BEAM - TYP.
- 3) HSS4x4x¾ BEAM BEARING ON ADJACENT CONCRETE SIDEWALK. SEE 4/S-101 FOR BOARDWALK TO ADJACENT SIDEWALK CONNECTIONS.
- 4) FOUNDATION SUPPORT - SEE 4/S-101.
- 5) TYPE 11W4 - 1"x¾" ADA COMPLIANT METAL BAR GRATING.
- 6) SEE 5/S-101 FOR TYPICAL CONNECTION OPTIONS.
- 7) ALL STRUCTURAL STEEL TO BE GALVANIZED.

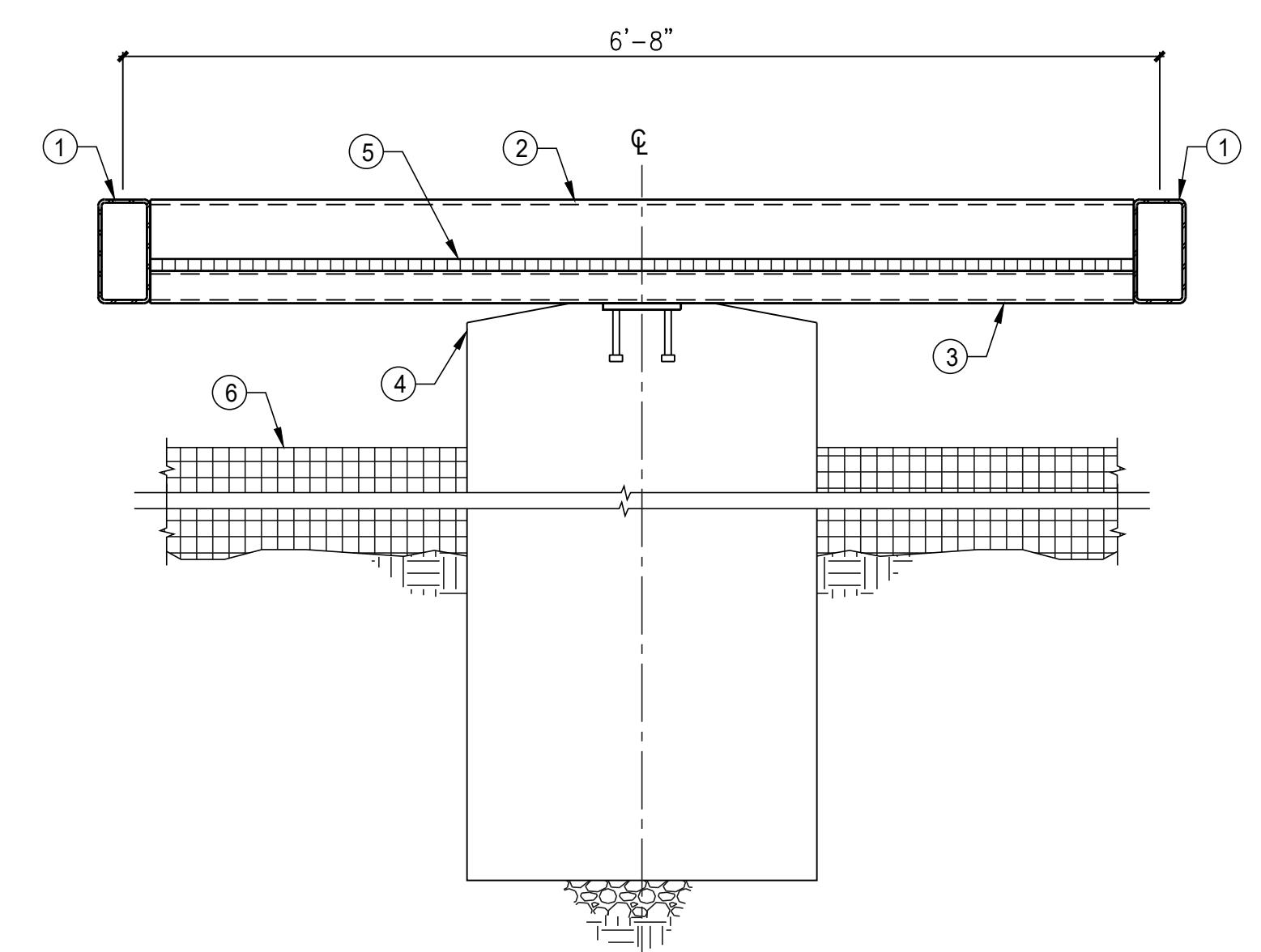
FILL NON-SUITABLE FOR SUPPORT OF FOUNDATIONS HAS BEEN IDENTIFIED TO VARYING DEPTHS ACROSS THE SITE. ALL FOUNDATIONS SHALL BEAR ON SUITABLE SOILS OR, WHERE REQUIRED, COMPACTED STRUCTURAL FILL. DETERMINATION OF FINAL BEARING ELEVATIONS AND FIELD VERIFICATION OF ALLOWABLE BEARING PRESSURE SHALL BE MADE BY A LICENSED GEOTECHNICAL ENGINEER PRIOR TO PLACING FOUNDATIONS. NOTIFY THE SER WHEN ADDITIONAL EXCAVATION IS REQUIRED TO REACH SUITABLE BEARING MATERIAL. WHERE REPLACED WITH COMPACTED STRUCTURAL FILL, COMPACTION SHALL MEET THE REQUIREMENTS OF SECTION F ON S-100



A WELDED CONNECTION **B THRU-BOLT CONNECTION**

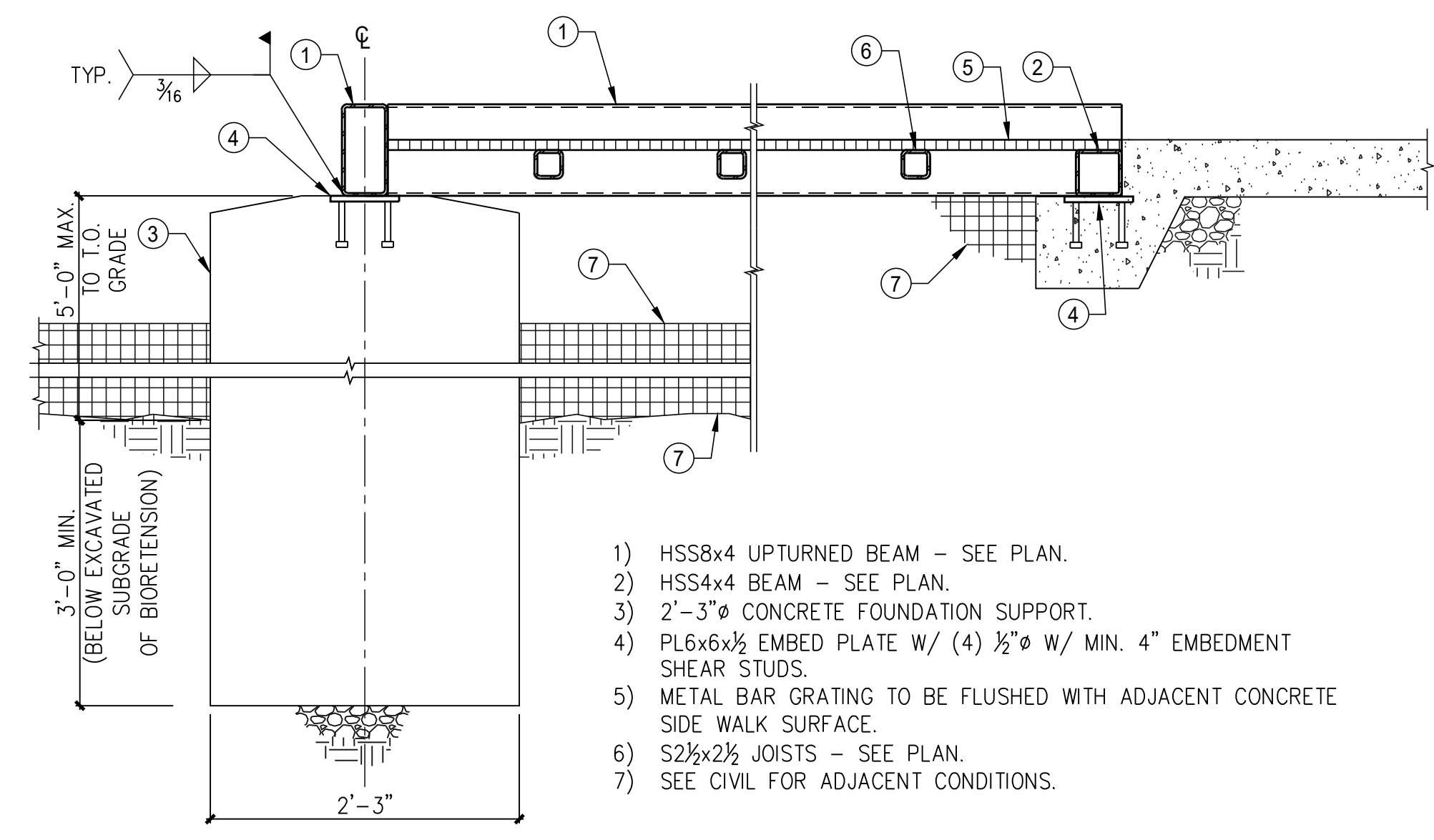
- 1) HSS BEAM.
- 2) HSS GIRDER.
- 3) L3x3x¼ x0'-6" W/ (2) ¾" Ø THROUGH-BOLT AT EA. SIDE.
- 4) REPAIR GALVANIZING AT WELDS.
- 5) CONTRACTOR MAY SELECT EITHER OPTION FOR EACH CONNECTION.

5 TYPICAL HSS BEAM TO HSS GIRDER CONNECTION N.T.S.



- 1) HSS8x4 UPTURNED BEAM - SEE PLAN.
- 2) HSS8x4 UPTURNED BEAM BEYOND - SEE PLAN.
- 3) HSS2½x2½ JOIST - SEE PLAN.
- 4) CONCRETE FOUNDATION SUPPORT BEYOND.
- 5) METAL BAR GRATING - SEE PLAN.
- 6) BIOTENSION SECTION - SEE CIVIL.

3 TYPICAL BOARDWALK FRAMING SUPPORT N.T.S.



- 1) HSS8x4 UPTURNED BEAM - SEE PLAN.
- 2) HSS4x4 BEAM - SEE PLAN.
- 3) 2'-3" Ø CONCRETE FOUNDATION SUPPORT.
- 4) PL6x6x½ EMBED PLATE W/ (4) ½" Ø W/ MIN. 4" EMBEDMENT SHEAR STUDS.
- 5) METAL BAR GRATING TO BE FLUSHED WITH ADJACENT CONCRETE SIDE WALK SURFACE.
- 6) S2½x2½ JOISTS - SEE PLAN.
- 7) SEE CIVIL FOR ADJACENT CONDITIONS.

4 BOARDWALK FRAMING SUPPORT ADJACENT TO SIDEWALK N.T.S.

ITB #23-DPR-ITBPW-450

#SWM 22-0224

Project Name and Location
ARLINGTON JUNCTION PARK

FINAL PLAN

1051 SOUTH EADS STREET

ARLINGTON, VIRGINIA

Sheet Title
BOARDWALK FRAMING AND DETAILS

Approval _____ Date _____
Design Supervisor _____

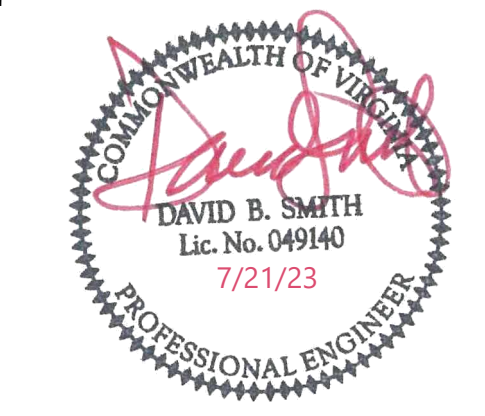
Revisions	Date
CEP#2	12/21/2022
CEP#3	06/02/2023
BUILDING PERMIT	02/15/2023
REVISED BUILDING PERMIT	04/20/2023
CEP#4	07/21/2023

Designed: HA
Drawn: HA
Checked: DBS

Filename:
Plotted:

Scale: AS SHOWN
Date: July 21, 2023

Seal



Sheet
S-101P

ITB #23-DPR-ITBPW-450

#SWM 22-0224

Project Name and Location

ARLINGTON JUNCTION PARK

FINAL PLAN

1051 SOUTH EADS STREET

ARLINGTON, VIRGINIA

Sheet Title

ANCHORAGE DETAILS

Approval Date

Design Supervisor

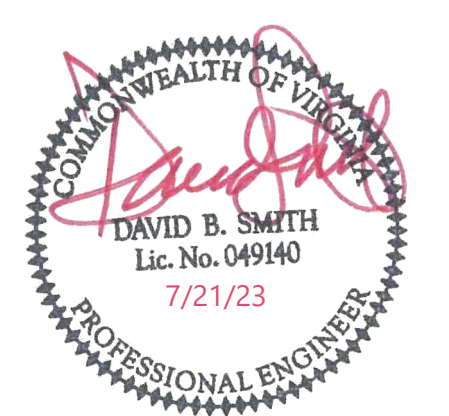
Revisions	Date
CEP#2	12/21/2022
CEP#3	06/02/2023
BUILDING PERMIT	02/15/2023
REVISED BUILDING PERMIT	04/20/2023
CEP#4	07/21/2023

Designed: HA
 Drawn: HA
 Checked: DBS

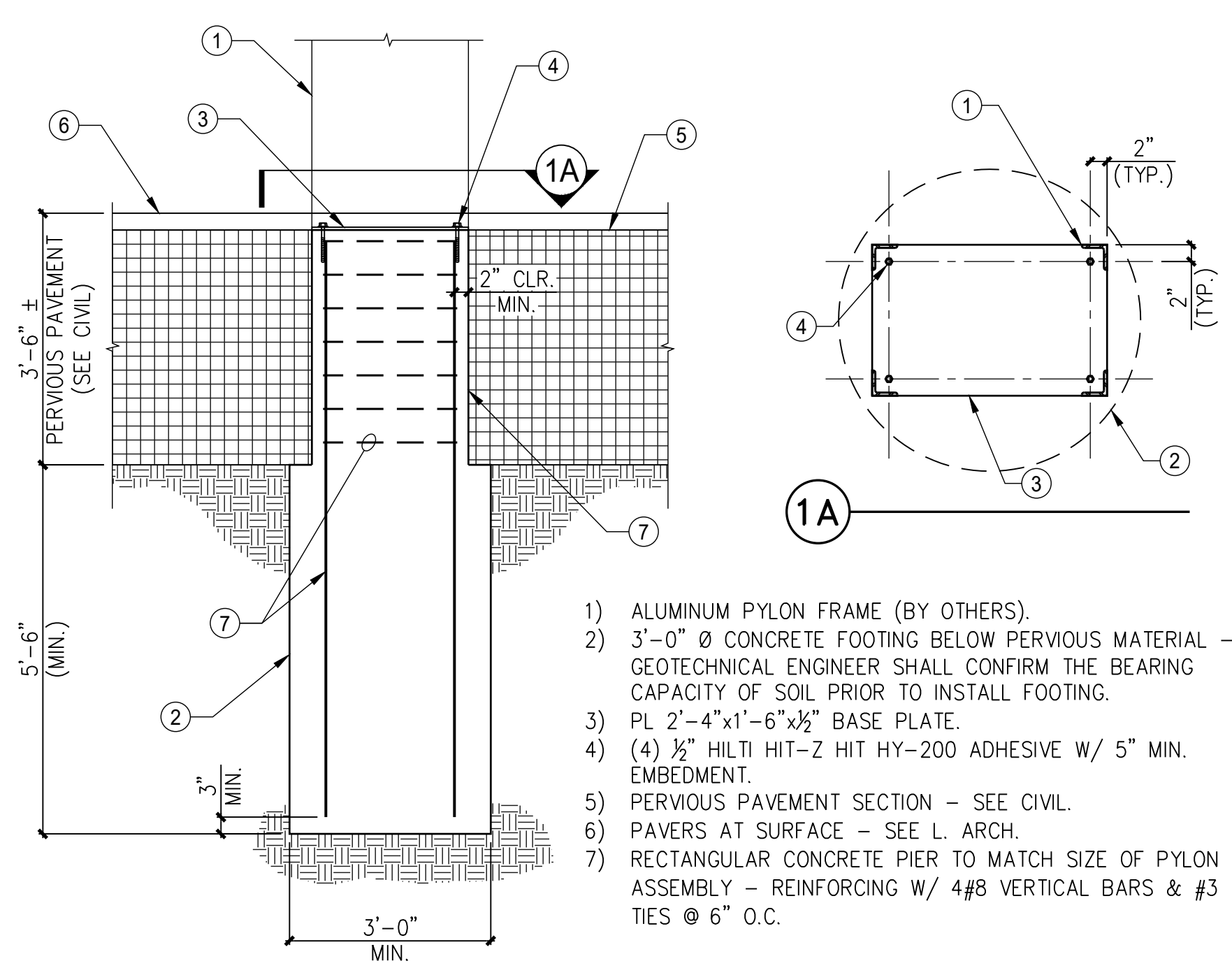
Filename:
 Plotted:

Scale: AS SHOWN
 Date: July 21, 2023

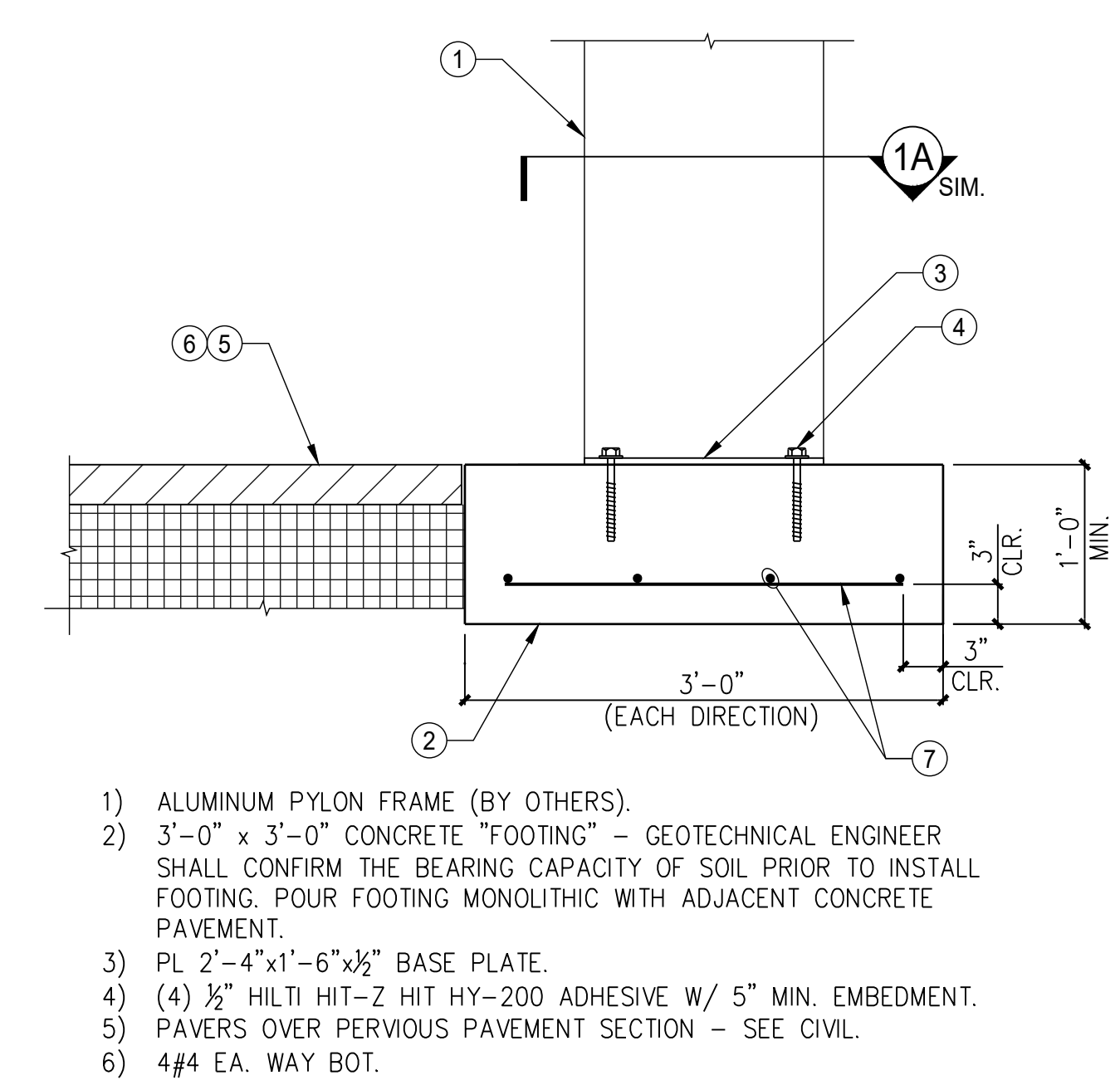
Seal



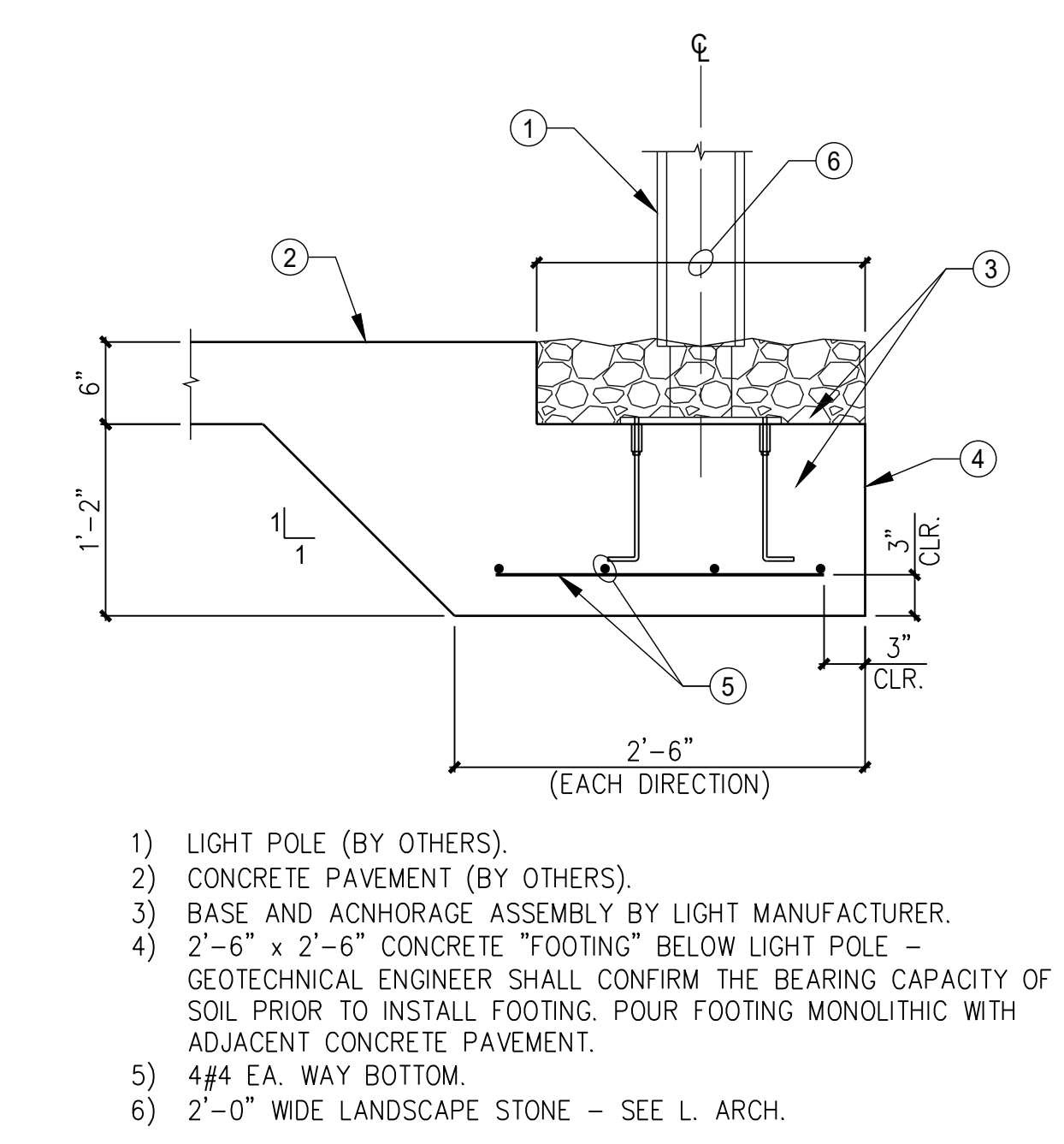
Sheet
S-102P



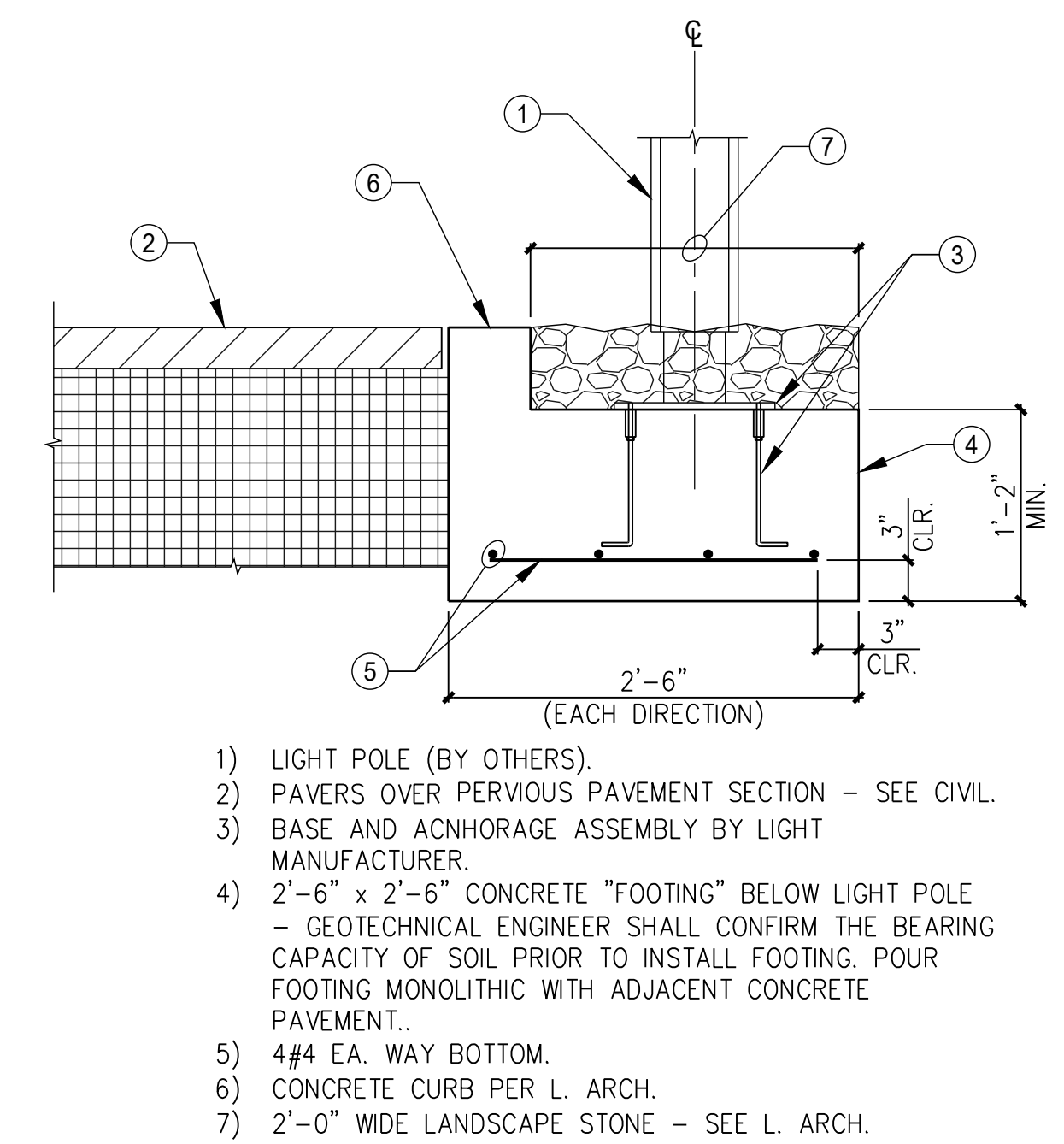
1 LI - PYLON LIGHT POLE FOOTING
 1/2" = 1'-0"



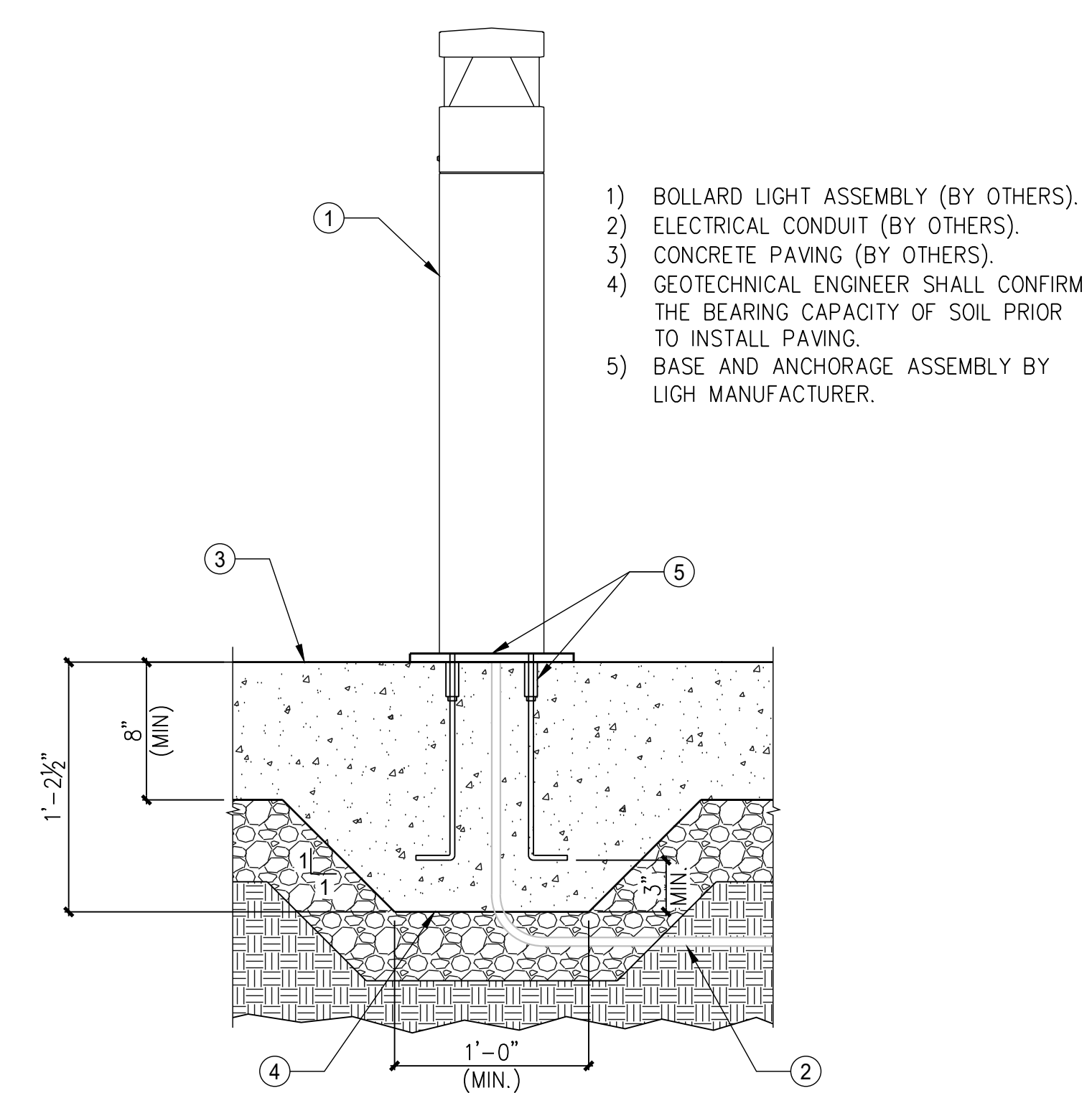
1A LI - PYLON LIGHT POLE FOOTING BASE ABOVE UTILITIES
 1" = 1'-0"



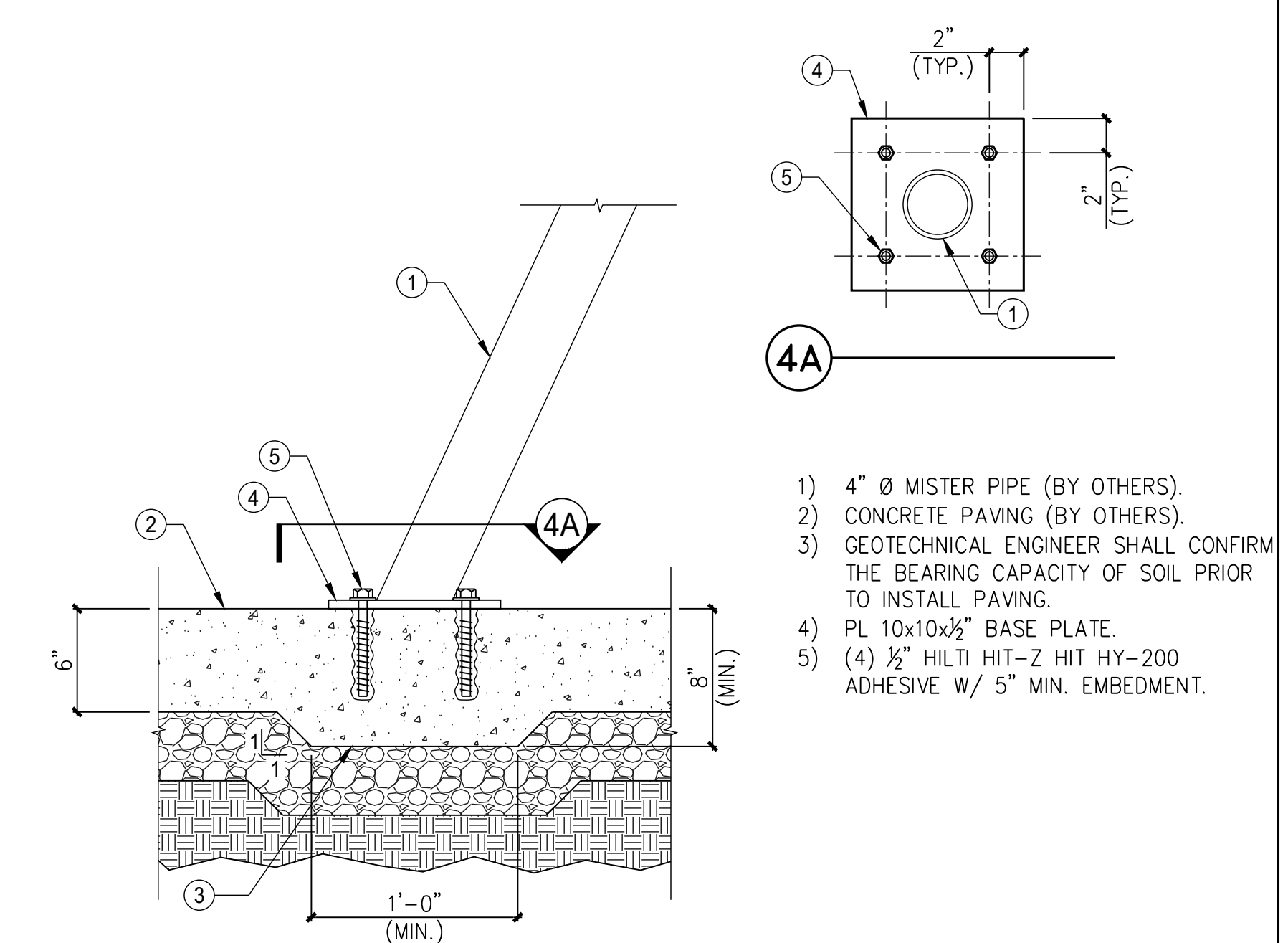
2 PARK LIGHT POLE FOOTING
 1" = 1'-0"



2A PARK LIGHT POLE FOOTING
 1" = 1'-0"



3 BOLLARD LIGHT ANCHORAGE
 1 1/2" = 1'-0"



4 MISTER ANCHORAGE DETAIL
 1 1/2" = 1'-0"

FILL NON-SUITABLE FOR SUPPORT OF FOUNDATIONS HAS BEEN IDENTIFIED TO VARYING DEPTHS ACROSS THE SITE. ALL FOUNDATIONS SHALL BEAR ON SUITABLE SOILS OR, WHERE REQUIRED, COMPACTED STRUCTURAL FILL. DETERMINATION OF FINAL BEARING ELEVATIONS AND FIELD VERIFICATION OF ALLOWABLE BEARING PRESSURE SHALL BE MADE BY A LICENSED GEOTECHNICAL ENGINEER PRIOR TO PLACING FOUNDATIONS. NOTIFY THE SER WHEN ADDITIONAL EXCAVATION IS REQUIRED TO REACH SUITABLE BEARING MATERIAL. WHERE REPLACED WITH COMPACTED STRUCTURAL FILL, COMPACTION SHALL MEET THE REQUIREMENTS OF SECTION F ON S-100

ARLINGTON COUNTY, VIRGINIA
 DEPARTMENT OF ENVIRONMENTAL SERVICES

ARLINGTON JUNCTION PARK-CIVIL ENGINEERING PLAN
 1051 SOUTH EADS STREET
 ARLINGTON COUNTY, VA

SCALE: AS SHOWN SHEET S-102P