

The following stamps were applied via the Surface and Groundwater System. Each stamp was signed electronically at the indicated time.

DEPARTMENT OF ENERGY & ENVIRONMENT
Erosion & Sediment Control Approval
File No. 20-6654

Notice: This Approval is for the Erosion & Sediment Control Plan only. All site activities, including clearing, grading, drainage and construction of design features must be accomplished in strict accordance with this approved plan and 21 DCMR Chapter 5. This approved plan may not be revised or changed without DOE's approval.

The applicant must complete a DOE pre-construction inspection before starting any land disturbance and must request a DOE final construction inspection within one week after completing land disturbance. See more info at doee.dc.gov/technical-construction-site-inspections.
Request a pre-construction inspection at doee.dc.gov/SGS.
Failure to comply with the requirements of this approval may result in enforcement action.

Approved By: *[Signature]* Date: 04-04-2023 09:24 AM

DEPARTMENT OF ENERGY & ENVIRONMENT
Stormwater Management Approval
File No. 20-6654

Notice: This Approval is for the Stormwater Management Plan (SWMP) only. All site activities, including clearing, grading, drainage, and facility development construction are accomplished in strict accordance with this approved plan and 20 DCMR Chapter 31. If there is a need to make any changes or modifications to the approved design, this office must be notified immediately.

The applicant must complete a DOE pre-construction inspection before starting construction of any on-site BMPs and must request a DOE final construction inspection within one week after completing construction of the SWMP. See more info at doee.dc.gov/services/construction-site-inspections.
Request a pre-construction inspection at doee.dc.gov/SGS.
Failure to comply with the requirements of this approval may result in enforcement action.

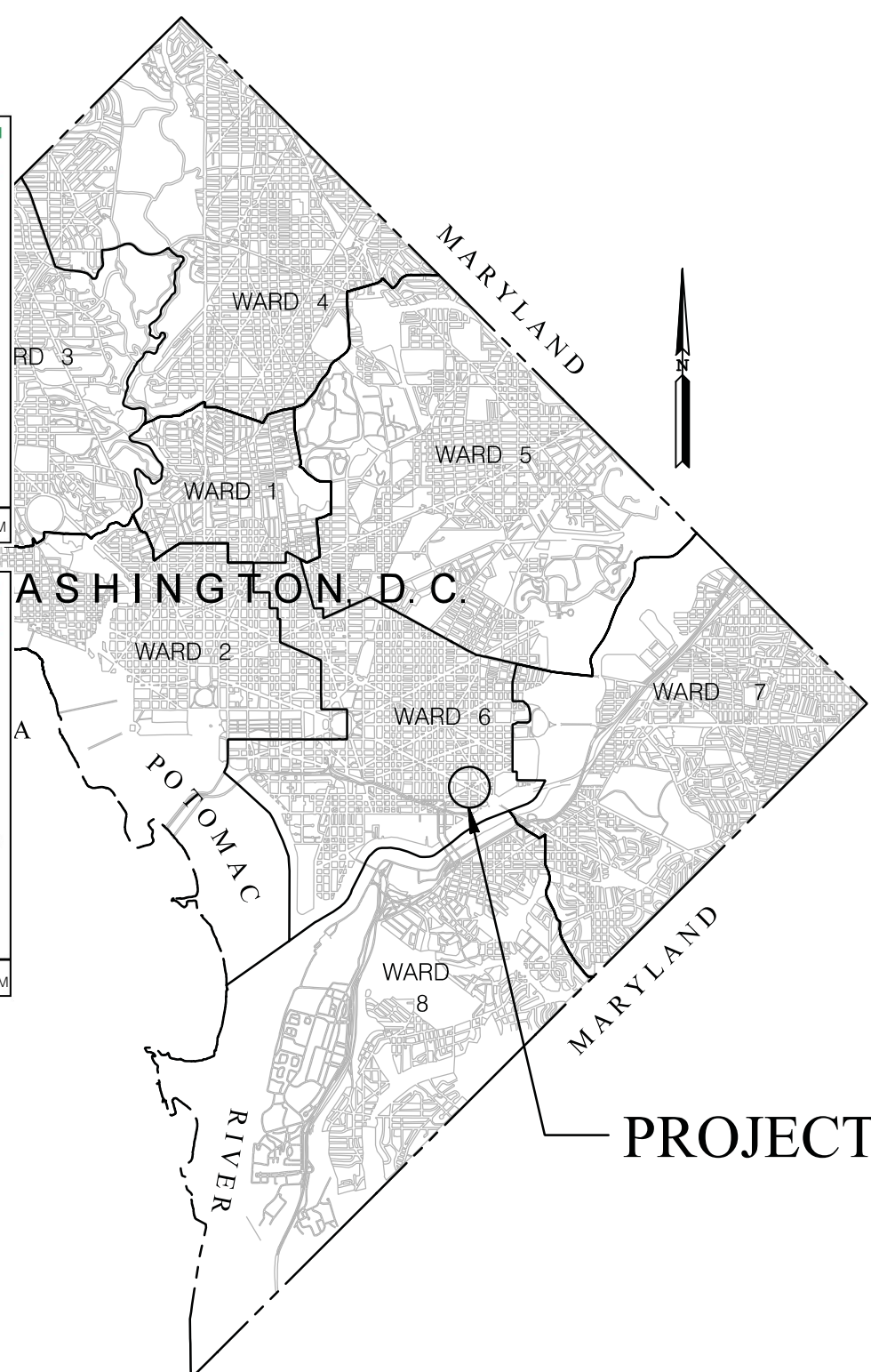
Approved By: *[Signature]* Date: 04-04-2023 09:24 AM

DEPARTMENT OF ENERGY & ENVIRONMENT
Floodplain Management Approval
File No. 20-6654

Notice: This Approval is for Floodplain Management only. The applicant must ensure that all clearing, grading, drainage, and facility development construction are accomplished in strict accordance with this approved plan and 20 DCMR Chapter 31. If there is a need to make any changes or modifications to the approved design, this office must be notified immediately.

The applicant must complete a DOE pre-construction inspection before starting construction of any on-site BMPs and must request a DOE final construction inspection within one week after completing construction of the SWMP. See more info at doee.dc.gov/services/construction-site-inspections.
Request a pre-construction inspection at doee.dc.gov/SGS.
Failure to comply with the requirements of this approval may result in enforcement action.

Approved By: *[Signature]* Date: 05-29-2020 12:07 PM



PROJECT SITE

KEY MAP

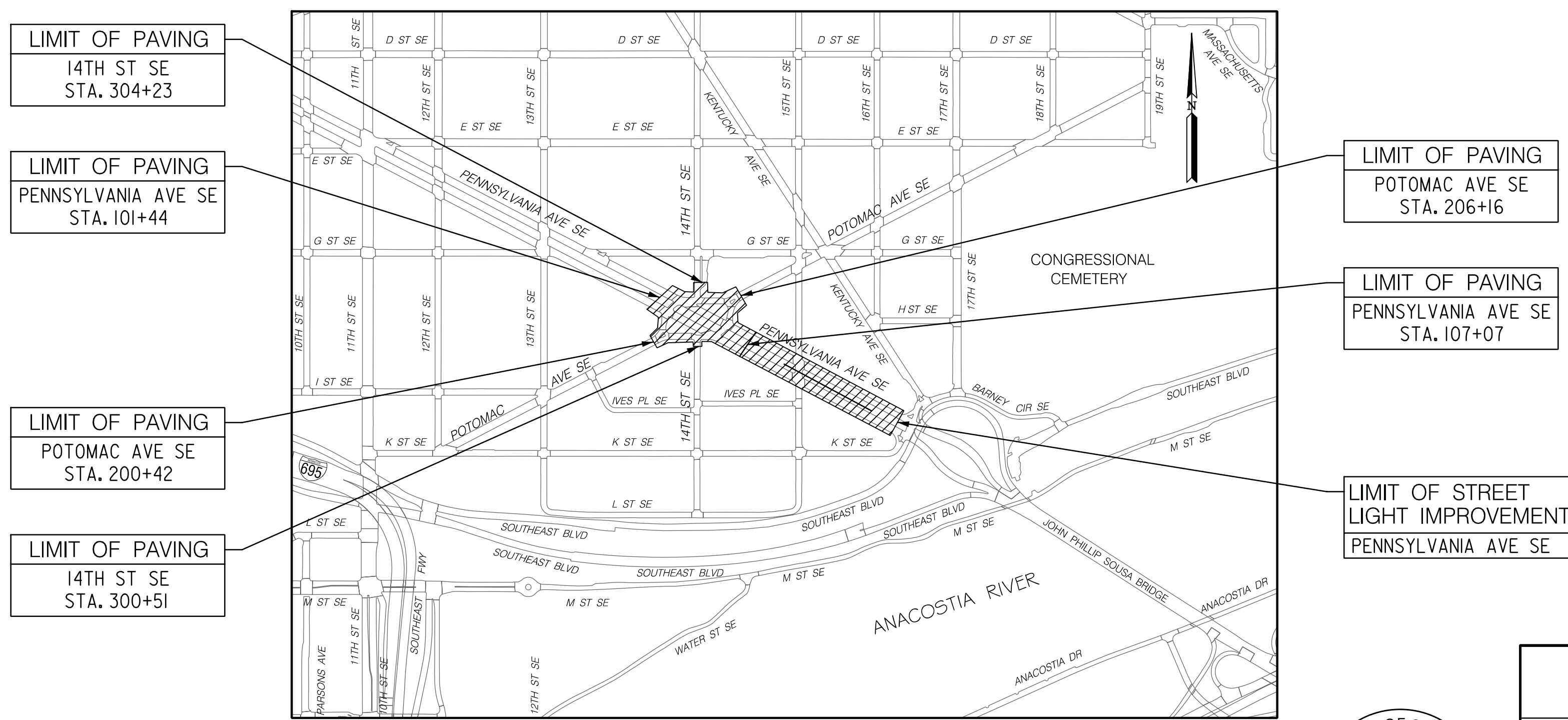
DISTRICT OF COLUMBIA DEPARTMENT OF TRANSPORTATION

PLANS OF PROPOSED INTERSECTION IMPROVEMENTS PENNSYLVANIA AND POTOMAC AVENUES SE

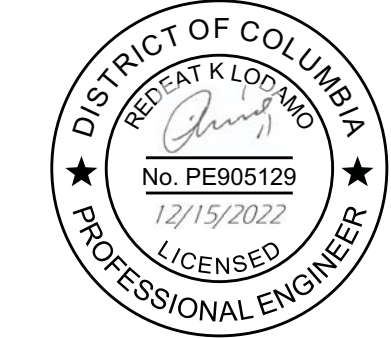
FEDERAL AID PROJECT NO. STP-2018 (009)

RESURFACING = 90 FT = 0.02 MILES
UPGRADE = 900 FT = 0.17 MILES
RECONSTRUCTION = 995 FT = 0.19 MILES
LENGTH OF PROJECT = 1,985 FT = 0.38 MILES

TRAFFIC DATA		
CONTROL OF ACCESS		NONE
ADT (2020)	PENNSYLVANIA AVE SE POTOMAC AVE SE 14TH ST SE	39,600 10,750 3,000
ADT (2040)	PENNSYLVANIA AVE SE POTOMAC AVE SE 14TH ST SE	44,000 12,500 3,350
DHV (2040)	PENNSYLVANIA AVE SE POTOMAC AVE SE 14TH ST SE	3,050 750 210
DISTRIBUTION		50/50
TRUCKS	PENNSYLVANIA AVE SE POTOMAC AVE SE 14TH ST SE	6% 3% 3%
POSTED SPEED	PENNSYLVANIA AVE SE POTOMAC AVE SE 14TH ST SE	30 MPH 25 MPH 25 MPH
DESIGN SPEED	PENNSYLVANIA AVE SE POTOMAC AVE SE 14TH ST SE	35 MPH 30 MPH 30 MPH
FUNCTIONAL CLASSIFICATION:		
PENNSYLVANIA AVE SE:	PRINCIPAL ARTERIAL	
POTOMAC AVE SE:	COLLECTOR	
14TH ST SE:	LOCAL	



LOCATION MAP
SCALE: 1"=500'



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Consulting Engineers
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Phone 410-884-3607
www.brudis.com

DISTRICT OF COLUMBIA DEPARTMENT OF TRANSPORTATION	DEPT. OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION
RECOMMENDED FOR APPROVAL:	APPROVED:
PROGRAM MANAGER IPMD /CHIEF, IPMD SUPPORT DIVISION	_____
APPROVED:	_____
CHIEF TRANSPORTATION ENGINEER	_____
TRANSPORTATION POLICY AND PLANNING ADMINISTRATION	_____
TRAFFIC SERVICES ADMINISTRATION	_____
DATE: _____	DATE: _____

STANDARD SYMBOLS

ABBREVIATIONS

	EXISTING SANITARY SEWER MANHOLE
	EXISTING STORMDRAIN MANHOLE
	EXISTING COMBINED SANITARY & STORMDRAIN MANHOLE
	EXISTING WATER MANHOLE
	EXISTING GAS, TELEPHONE, ELECTRIC MANHOLE
	EXISTING MANHOLE - UNKNOWN
	EXISTING WATER METER
	EXISTING WATER VALVE OR CUT-OFF
	EXISTING SANITARY SEWER VENT
	EXISTING SANITARY SEWER CLEANOUT
	EXISTING GAS METER
	EXISTING GAS VALVE OR CUT-OFF
	EXISTING GAS VENT
	EXISTING ELECTRIC METER
	PROPOSED SANITARY SEWER OR WATER MANHOLE
	EXISTING FIRE HYDRANT
	PROPOSED FIRE HYDRANT
	PROPOSED WATER VALVE, GATE VALVE
	EXISTING CULVERT WITH DIRECTION OF FLOW
	PROPOSED CULVERT WITH DIRECTION OF FLOW
	EXISTING UNDERDRAIN
	PROPOSED UNDERDRAIN
	EXISTING CATCH BASIN CONNECTION WITH DIRECTION OF FLOW
	PROPOSED CATCH BASIN CONNECTION WITH DIRECTION OF FLOW
	EXISTING SINGLE CATCH BASIN
	EXISTING DOUBLE CATCH BASIN
	EXISTING TRIPLE CATCH BASIN
	EXISTING SINGLE CATCH BASIN WITH DOUBLE THROAT ELONGATION
	EXISTING SINGLE CATCH BASIN WITH TRIPLE THROAT ELONGATION
	EXISTING SINGLE CATCH BASIN WITH GRATE
	EXISTING DOUBLE CATCH BASIN WITH GRATE
	PROPOSED SINGLE CATCH BASIN
	PROPOSED DOUBLE CATCH BASIN
	PROPOSED TRIPLE CATCH BASIN
	PROPOSED SINGLE CATCH BASIN WITH GRATE
	PROPOSED DOUBLE CATCH BASIN WITH GRATE
	CHECK DAM
	TREE PROTECTION
	INLET PROTECTION
	EXISTING SANITARY SEWER, COMBINED SEWER, TORMDRAIN, WATER LINE LESS THAN 24"
	EXISTING SANITARY SEWER, COMBINED SEWER, STORMDRAIN, WATER LINE 24" OR GREATER
	EXISTING UNDERGROUND GAS, TELEPHONE, ELECTRIC LINE
	EXISTING SANITARY SEWER, COMBINED SEWER, STORMDRAIN, WATER LINE TO BE ABANDONED
	EXISTING UNDERGROUND GAS, TELEPHONE, ELECTRIC LINE TO BE ABANDONED
	EXISTING SANITARY SEWER, COMBINED SEWER, STORMDRAIN, WATER LINE TO BE REMOVED
	EXISTING UNDERGROUND GAS, TELEPHONE, ELECTRIC LINE TO BE REMOVED
	PROPOSED STORMDRAIN LINE WITH DIRECTION OF FLOW, LESS THAN 24"
	PROPOSED STORMDRAIN LINE WITH DIRECTION OF FLOW, 24" OR GREATER

	EXISTING RAILROAD
	EXISTING STREET CAR TRACKS
	PROPOSED LIMIT OF RECONSTRUCTION
	PROPOSED LIMIT OF WORK
	EXISTING BUSH OR SHRUB
	EXISTING HEDGEROW
	EXISTING DECIDUOUS TREE, EVERGREEN TREE
	PROPOSED TREE
	EXISTING TREE STUMP
	EXISTING TREE TO BE REMOVED
	EXISTING TREE WITH TREE PROTECTION
	EXISTING WALL OR COPING
	PROPOSED WALL OR COPING
	EXISTING ELECTRIC VAULT
	EXISTING GUY WIRE ANCHOR
	EXISTING DIRECTION OF TRAFFIC
	PROPOSED DIRECTION OF TRAFFIC
	EXISTING SIGN AND POST
	PROPOSED SIGN AND POST
	EXISTING PARKING METER
	EXISTING FIRE ALARM BOX
	EXISTING POLICE CALL BOX
	EXISTING TRASH /WASTER CAN
	PROPOSED TRASH /WASTER CAN
	EXISTING WHEELCHAIR /BICYCLE RAMP
	PROPOSED WHEELCHAIR /BICYCLE RAMP
	EXISTING BOLLARD OR POST
	MAIL BOX
	LOCATION OF TEST BORING WITH NUMBER
	LOCATION OF TEST PIT WITH NUMBER
	BENCH MARK WITH NUMBER
	TRIANGULATION OR CONTROL POINT
	BREAK IN GRADE
	STATION EQUATION
	REVISION WITH NUMBER
	EXISTING SPOT ELEVATION AND /OR FEATURE (0.10 SLANT TEXT FOR 20' SCALE)
	PROPOSED SPOT ELEVATION AND /OR FEATURE (0.12 TEXT FOR 20' SCALE)
	EXISTING BASE LINE OR CENTER LINE
	PROPOSED BASE LINE
	PROPOSED CENTER LINE
	STATE LINE
	RIGHT-OF-WAY LINE
	BUILDING RESTRICTION LINE
	LOT LINE
	EXISTING FENCE (Indicate Type)
	PROPOSED FENCE (Indicate Type)
	EXISTING GUARDRAIL - DOUBLE FACE
	PROPOSED GUARDRAIL - DOUBLE FACE
	EXISTING GUARDRAIL - SINGLE FACE
	PROPOSED GUARDRAIL - SINGLE FACE

	PROPOSED 3 SECTION TRAFFIC SIGNAL
	PROPOSED 4 SECTION TRAFFIC SIGNAL
	PROPOSED 5 SECTION TRAFFIC SIGNAL
	EXISTING 3 SECTION TRAFFIC SIGNAL
	EXISTING 4 SECTION TRAFFIC SIGNAL
	EXISTING 5 SECTION TRAFFIC SIGNAL
	EXISTING LUMINAIRE AND SUPPORT ARM INDICATES DIRECTION OF LIGHT
	PROPOSED LUMINAIRE AND SUPPORT ARM INDICATES DIRECTION OF LIGHT
	REMOVE INDICATED TRAFFIC SIGNAL OR STREETLIGHT UNIT
	EXISTING PEDESTRIAN SIGNAL
	PROPOSED PEDESTRIAN SIGNAL
	EXISTING TRAFFIC SIGNAL CONTROL BOX
	PROPOSED TRAFFIC SIGNAL CONTROL BOX
	EXISTING TRAFFIC SIGNAL COMMUNICATION CABINET
	PROPOSED TRAFFIC SIGNAL COMMUNICATION CABINET
	EXISTING SL /TS CONDUIT - SL-STREETLIGHT, TS-TRAFFIC SIGNAL
	PROPOSED 2" PVC CONDUIT
	PROPOSED 4" PVC CONDUIT
	PROPOSED 2" & 4" PVC CONDUITS
	PROPOSED 2-4" PVC CONDUITS
	PROPOSED 4-4" PVC CONDUITS
	PROPOSED LOCATION FOR PEPCO POWER CONNECTION
	EXISTING 6'X6'X6' ELECTRICAL MANHOLE
	PROPOSED 6'X6'X6' ELECTRICAL MANHOLE
	EXISTING 4'X4'X6' ELECTRICAL MANHOLE
	PROPOSED 4'X4'X6' ELECTRICAL MANHOLE
	EXISTING 4'X4'X4' ELECTRICAL MANHOLE
	PROPOSED 4'X4'X4' ELECTRICAL MANHOLE
	EXISTING 3'X3'X3' ELECTRICAL MANHOLE
	PROPOSED 3'X3'X3' ELECTRICAL MANHOLE
	EXISTING #14 STREETLIGHT POLE
	PROPOSED #14 STREETLIGHT POLE
	EXISTING #16 STREETLIGHT POLE
	PROPOSED #16 STREETLIGHT POLE
	EXISTING #18 STREETLIGHT POLE
	PROPOSED #18 STREETLIGHT POLE
	EXISTING TWIN 20 STREETLIGHT POLE
	PROPOSED TWIN 20 STREETLIGHT POLE
	EXISTING 5A STREETLIGHT POLE
	PROPOSED 5A STREETLIGHT POLE
	EXISTING PENDANT POLE
	PROPOSED PENDANT POLE
	EXISTING PEPCO WOOD POLE
	PROPOSED PEPCO WOOD POLE
	EXISTING DC WOOD POLE
	PROPOSED DC WOOD POLE
	EXISTING 20 FOOT TRAFFIC SIGNAL POLE
	PROPOSED 20 FOOT TRAFFIC SIGNAL POLE
	TRAFFIC SIGNAL(S) MOUNTED ON STREETLIGHT POLE
	PROPOSED BICYCLE RACK

AASHTO American Association of State Highway Transportation Officials	RCP Reinforced Concrete Pipe
ADT Average Daily Traffic	RCPD Reinforced Concrete Pressure Pipe
APPROX. Approximate	PCC Point of Compound Curvature
BL or BL Baseline	PC Point of Crown
BIT Bituminous	PGE Profile Grade Elevation
B.C. Bituminous Concrete	P.G.E. Profile Ground Elevation
B.M. Bench Mark	P.G.L. Profile Grade Line
BOT. Bottom	P.G.L. Profile Ground Line
C.C. Center of Curve	PR Point of Rotation
CAP Corrugated Aluminum Pipe	P.I. Point of Intersection
CAPA Corrugated Aluminum Pipe Arch	POC Point On Curve
CATV Cable Television	POT Point On Tangent
CL or CL Centerline	PWP Polyvinyl Chloride Profile Wall Pipe
CL Class	PROP Proposed
CLF Chainlink Fence	PRC Point of Reverse Curve
CMP Corrugated Metal Pipe	PT Point
C.O. Cleanout	PT Point of Tangency
COMB. Combination	PVC Point of Vertical Curve
CONC. Concrete	PVC Polyvinyl Chloride
CONSTR. Construction	PVI Point of Vertical Intersection
CORR. Correction	PVRC Point of Vertical Reverse Curve
CPP-S Corrugated Polyethylene Pipe - Type 'S'	PVT Point of Vertical Tangency
CSP Corrugated Steel Pipe - Aluminized Type 2	R Radius
CSPA Corrugated Steel Pipe Arch - Aluminized Type 2	RT Right
DC Degree of Curve	R.Q.D. Rock Quality Designation
D.H.V. Design Hourly Volume	R.M. Rootmat
D.I. Drop Inlet	S South
DIA. Diameter	SAN. Sanitary Sewer
D.O. Double Opening	SB or SB Southbound
E East	S.D. Storm Drain
E Electric	S.D.D. Surface Drain Ditch
E External Distance	SE Super Elevation
EA Each	SF Silt Fence
EB Eastbound	SF Square Feet
ELEV. Elevation	SHT. Sheet
ES End Section	SPP Structural Steel Plate Pipe
EX or EXIST. Existing	SPPA Structural Steel Plate Pipe Arch
FT Feet	S.P.T. Standard Penetration Testing
F or FL Flowline	SRP Steel Spiral Rib Pipe - Aluminized Type 2
F.H. Fire Hydrant	SRPA Steel Spiral Rib Pipe Arch - Aluminized Type 2
G Gas	SSD Stopping Sight Distance
G.V. Gas Valve	SSF Super Silt Fence
H.B. Handbox	STD. Standard
HDPE High Density Polyethylene	STA. Station
HDWL. Headwall	SO. Single Opening
HERCP Horizontal Elliptical Reinforced Concrete Pipe	SY Square Yards
HP High Point	SWM Stormwater Management
IN Inch	T Tangent
I.S.T Inlet Sediment Trap	T Telephone
INV. Invert	T.C. Top of Cover
J.B. Junction Box	T.G. Top of Grate
K K Inlet	T or TL Traverse Line
L Length	T.M. Top of Manhole
LF Linear Feet	TRAV. Traverse
L.L. Liquid Limit	TS Temporary Swale
LP Low Point	T.S. Top of Slab
L.P. Light Pole	TP Typical
LT Left	U.D. Under Drain
MAC Macadam	U.G. Underground
MAX. Maximum	U.P. Utility Pole
M.D.D. Maximum Dry Content	USDA United States Department of Agriculture
MOD. Modified	VCL Vertical Clearance
MIN. Minimum	V.C.L. Vertical Curve Length
NB Northbound	W Water
NE Northeast	W West
N.P. Non-Plastic	WB Westbound
O.C. On Center	WB Wetland Buffer
OHE Overhead Electric	W.M. Water Meter
O.M. Optimum Moisture	W.S. Wrapped Steel
PC Point of Curvature	WUS Waters of the United States
RW or RW. Right of Way	W.V. Water Valve

P:\17-005_DD0T_AE_Schedule_V\Pennsylvania Ave. Potomac Ave Improvements\Drawings\CADD\Working\GN-001_Penn Ave & Potomac Ave.dgn 11/20/2022



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NO.	DESCRIPTION	NAME	DATE

DATED: DECEMBER, 2022	SCALE: NONE	GN-01
D.C. DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT DIVISION		
PENNSYLVANIA AND POTOMAC AVE SE INTERSECTION IMPROVEMENT PROJECT		PROJECT ENG. _____ DESIGNED BY _____ CHECKED BY _____ DRAWN BY _____ PROJECT MGR. _____
SYMBOLS AND ABBREVIATIONS		DIVISION CHIEF _____ DATE _____ FILE _____ SHEET 3 OF 167

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.	FAP NO. STP - 2018 (009)	4	167

GENERAL NOTES

- ALL CONSTRUCTION MATERIALS AND PROCEDURES SHALL BE GOVERNED BY THE "STANDARD SPECIFICATIONS FOR HIGHWAYS AND STRUCTURES," DATED 2013, ISSUED BY THE DISTRICT OF COLUMBIA DEPARTMENT OF PUBLIC WORKS. THE CONTRACTOR SHALL PROVIDE UNRESTRICTED ACCESS TO THE SITE FOR INSPECTION PURPOSES DURING THE ENTIRE CONSTRUCTION PERIOD.
- THE D.C. DEPARTMENT OF TRANSPORTATION DOES NOT GUARANTEE THE ACCURACY OF THE ORIGINAL DRAWINGS OF EXISTING CONDITIONS PRIOR TO CONSTRUCTION AND PREPARATION OF SHOP DRAWINGS. THE CONTRACTOR SHALL CHECK THE DIMENSIONS OF THE EXISTING CONDITIONS. IF THESE DIMENSIONS DO NOT AGREE WITH THOSE SHOWN ON THE CONTRACT PLANS OR OTHER EXISTING DRAWINGS, THE CONTRACTOR SHALL MAKE THE NECESSARY ADJUSTMENTS TO THE DIMENSIONS SHOWN ON THE CONTRACT PLAN TO ENSURE THAT THE NEW CONSTRUCTION WILL PROPERLY FIT THE EXISTING CONDITIONS.
- THE FINISHED ELEVATIONS, ALIGNMENTS AND LIMITS OF WORK PROVIDED IN THE PLANS ARE BASED ON THE FIELD SURVEY DATA. THE CONTRACTOR IS RESPONSIBLE TO BRING TO THE NOTICE OF THE CHIEF ENGINEER ANY DISCREPANCY OR MISMATCH OF THE PROPOSED CONSTRUCTION WITH THE EXISTING.
- THE CONTRACTOR SHALL ENSURE THAT ANY DISTURBANCE TO THE NORMAL MOVEMENT OF PERSONNEL AND VEHICLES, IS KEPT TO THE MINIMUM.
- WHEN NOT ENGAGED IN CONSTRUCTION ACTIVITY, THE CONTRACTOR'S CONSTRUCTION EQUIPMENT AND VEHICLES SHALL BE PARKED IN THE STORAGE SITE OR STORAGE AREA IDENTIFIED BY THE CHIEF ENGINEER.
- MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH DISTRICT OF COLUMBIA DEPARTMENT OF HIGHWAYS AND TRAFFIC STANDARD SPECIFICATION AND THE SPECIAL PROVISIONS.
- CONTRACTOR SHALL COORDINATE ACTIVITIES THROUGHOUT THE PROJECT IN THE MANNER THAT ALLOWS EMERGENCY ACCESS TO ALL AREAS OF THE JOB THAT ARE OCCUPIED BY THE EMPLOYEES WITHOUT DELAYS TO EMERGENCY RESPONSE VEHICLES.
- THE CONTRACTOR SHALL NOT STOCKPILE CONSTRUCTION MATERIAL, SPOIL, DEBRIS, OR REFUSE IN ANY AREA OTHER THAN THAT SPECIFICALLY APPROVED FOR SUCH PURPOSED BY THE CHIEF ENGINEER. STOCKPILED MATERIAL SHALL BE CONTAINED IN A MANNER TO PREVENT ITS MOVEMENT BY THE WIND.
- ANY DAMAGE TO THE EXISTING ROADS, OR SYSTEMS SHALL BE REPAIRED BY THE CONTRACTOR AT HIS OWN EXPENSE TO THE SATISFACTION OF THE CHIEF ENGINEER. ALL AREA DISTURBED BY THE CONTRACTOR SHALL BE RESTORED TO THEIR ORIGINAL CONDITIONS AT THE COMPLETION OF THE PROJECT.
- DDOT STANDARD DRAWINGS (2015) IS INCORPORATED HEREIN BY REFERENCE AND IS MADE A PART OF THIS CONTRACT.

DC WATER NOTES

- NOTIFY THE FOLLOWING DC WATER DEPARTMENTS PRIOR TO THE COMMENCEMENT OF UTILITY CONSTRUCTION:
 A. CONSTRUCTION INSPECTION SECTION AT (202) 787-4024 AT LEAST TWO WEEKS PRIOR TO THE COMMENCEMENT OF UTILITY CONSTRUCTION TO SCHEDULE PRE-CONSTRUCTION MEETING.
 B. DEPARTMENT OF WATER SERVICES AT (202) 612-3400 AT LEAST ONE WEEK PRIOR TO THE COMMENCEMENT OF WATER UTILITY CONSTRUCTION.
 C. DEPARTMENT OF SEWER SERVICES AT (202) 264-3862 AT LEAST ONE WEEK PRIOR TO THE COMMENCEMENT OF SEWER UTILITY CONSTRUCTION.
- ALL CONSTRUCTION, MATERIALS, AND APPURTENANCES SHALL COMPLY WITH THE LATEST EDITIONS OF THE DC WATER PROJECT DESIGN MANUAL, STANDARD DETAILS & DESIGN GUIDELINES, AND SPECIFICATIONS.
- CONTACT MISS UTILITY AT 800-257-7777 48 HOURS PRIOR TO THE CONSTRUCTION.
- THE CONTRACT SHALL FIELD VERIFY THE LOCATION OF EXISTING UNDERGROUND UTILITIES PRIOR TO INSTALLATION OF PROPOSED UTILITIES.
- ALL UTILITY WORK SHALL BE PHASED TO MAINTAIN UTILITY SERVICES TO THE SURROUNDING AREA DURING ALL PHASES OF CONSTRUCTION. LIMIT REQUIRED UTILITY SHUT-DOWNS IN NUMBER AND DURATION. COORDINATE THESE SHUT DOWNS WITH DC WATER CONSTRUCTION INSPECTION STAFF.
- THE CONTRACTOR SHALL NOTIFY FEMS AT (202) 277-1899, PRIOR TO TAKING ANY FIRE HYDRANT OUT OF SERVICE OR RENDERING ANY HYDRANT INACCESSIBLE FOR ANY REASON. FEMS IS ALSO TO BE PROVIDED WITH THE LOCATION OF ANY NEW INSTALLATION OF FIRE HYDRANTS.
- ALL EXISTING DC WATER ITEMS SUCH AS CATCH BASIN TOPS, MANHOLE FRAMES & COVERS AND WATER LINE RELATED ASSEMBLIES THAT ARE NOT REUSED SHALL BE SALVAGED AND RETURNED TO DC WATER.
- REMOVE FRAME AND COVER OF SEWER STRUCTURES AND WATER MAIN VALVE CASINGS TO BE ABANDONED AND FILL TO GRADE.
- THE CONTRACTOR SHALL EXCAVATE AND LOCATE, VERTICALLY AND HORIZONTALLY, ALL EXISTING UTILITIES IN CLOSE PROXIMITY TO THE PROPOSED WATER AND SEWER FACILITIES.
- THE CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AT ALL LOCATIONS WHERE EXISTING WATER MAINS ARE TO BE ALTERED. THE CONTRACTOR SHALL PROVIDE ADDITIONAL FITTINGS AND ADAPTORS NOT SHOWN ON DRAWINGS AS REQUIRED FOR A COMPLETE INSTALLATION.
- THE CONTRACTOR IS RESPONSIBLE FOR ADJUSTING ALL UTILITY COVER ELEVATION REQUIRED TO MEET NEW ROADWAY GRADE.
- HORIZONTAL STATIONS AND OFFSETS FOR THE CATCH BASINS ARE TO THE CURB LINE ELEVATION.
- HORIZONTAL STATIONS AND OFFSETS FOR THE MANHOLES ARE TO THE CENTERLINE OF THE STRUCTURE AND ELEVATION PROVIDED IS THE TOP OF COVER ELEVATION.

UTILITY NOTES

THE FOLLOWING KNOWN UTILITIES HAVE FACILITIES IN THE AREA OF CONTRACT LIMITS:

- A) POTOMAC ELECTRIC AND POWER COMPANY (PEPCO)
3400 BENNING ROAD, N.E.
WASHINGTON D.C 20019
(202) 388-2602
- B) DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY (DC WATER)
OFFICE OF ENGINEERING AND TECHNICAL SERVICES
5000 OVERLOOK AVENUE, S.W.
(202) 787-4024
- C) WASHINGTON GAS DISTRIBUTION DEPARTMENT
8801 INDUSTRIAL ROAD
SPRINGFIELD, VIRGINIA 22151
(703) 750-4256

THE EXISTENCE OF OTHER UTILITIES IS NOT KNOWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF ALL EXISTING UTILITIES AND PROVIDE TEMPORARY SUPPORT AS REQUIRED DURING CONSTRUCTION. FOR THE FULL INFORMATION REGARDING UTILITY PROTECTION SEE 107.16 "UTILITY PROTECTIVE ALERT."

- THE CONTRACTOR SHALL NOTIFY MISS UTILITY, 1-800-257-7777 48 HOURS PRIOR TO EXCAVATING.
- THE LOCATIONS OF UTILITIES SHOWN ON THE PLANS ARE BASED ON FILED SURVEY DATA AND/OR AS-BUILT PLANS PROVIDED BY THE UTILITY OWNERS. THE INFORMATION SHOWN IS NOT NECESSARILY COMPLETE AND THE LOCATION OF THE UTILITIES SHOWN IS APPROXIMATE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE OF ALL UTILITIES AT THE CONTRACTOR'S OWN EXPENSE. WELL IN ADVANCE OF CONDUCTING CONSTRUCTION OPERATIONS WHICH COULD DAMAGE THESE FACILITIES. IN THE AREAS WHERE PROPOSED CONSTRUCTION MAY CONFLICT WITH THE EXISTING UTILITIES, THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO EXISTING UTILITIES. IF AN UNDERGROUND UTILITY IS DAMAGED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER AND OWNER OF THE SAID UTILITY. ANY DAMAGE SUSTAINED TO UTILITIES ABOVE OR BELOW GROUND SHALL BE REPAIRED BY OR UNDER DIRECTION OF THE UTILITY OWNER AT THE CONTRACTOR'S EXPENSE. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR BACKFILL AN EXCAVATION AFFECTING SAID UTILITY WITHOUT FIRST RECEIVING PERMISSION FROM THE UTILITY OWNER.
- LOCATING THE UNDERGROUND UTILITIES SHALL BE GIVEN TOPMOST PRIORITY BY THE CONTRACTOR BEFORE ANY EXCAVATION WORK STARTS. ANY SUSPICIOUS CONFLICT WITH GAS PIPES AND/OR COMMUNICATION LINES AND OTHER UTILITIES SHALL BE ASCERTAINED BEFORE STARTING WORK ON EXCAVATION OR ORDERING MATERIALS. RELOCATION OF ANY UTILITY MAY TAKE 3 TO 12 MONTHS AFTER A TEST PIT DATA IS MADE AVAILABLE AND CONTRACTOR SHALL TAKE THIS INTO CONSIDERATION FOR SCHEDULING THE TASKS.
- REPLACE EXISTING FIRE HYDRANT WITH NEW BREAK-AWAY TYPE TRAFFIC FIRE HYDRANT WITH DRY WELL, PER DC WATER STD. DWG. NO. W-50-01. WHEN INSTALLED, NEW FIRE HYDRANTS SHALL BE SET AND SHALL INCLUDE ALL APPURTENANCES AND FITTINGS NEEDED FOR OPERATIONS.
- WASHINGTON GAS
 I) WASHINGTON GAS COMPANY HAS UNDERTAKEN THE WORK OF RELOCATION REPLACEMENT AND ABANDONMENT OF CERTAIN GAS LINES WITHIN THE WORK AREA OF THIS CONTRACT. CONTRACTOR SHALL, AS FIRST ORDER OF PRIORITY, CONTACT THE WASHINGTON GAS COMPANY AND PROCURE A MAP OF THE LOCATIONS OF THE GAS LINES AND THEIR DEPTHS AS THEY EXIST NOW BEFORE ANY EXCAVATION IS STARTED.
 II) CONTACT WASHINGTON GAS PRESSURE OPERATIONS AT (703) 750-4371 48 HOURS PRIOR TO ANY EXCAVATION WORK NEAR THE INTERSECTION OF PENNSYLVANIA AVE /15TH ST SE. A WASHINGTON GAS INSPECTOR SHALL BE PRESENT DURING CONSTRUCTION ACTIVITIES.
 III) FOR LOCATIONS WHERE THERE IS A PROPOSED GRADE CUT IN ADDITION TO THE PROPOSED FULL DEPTH PAVEMENT OVER WASHINGTON GAS FACILITIES, THE CONTRACTOR SHOULD DIG TEST HOLES TO VERIFY THE LOCATIONS AND ELEVATIONS OF EXISTING WASHINGTON GAS FACILITIES POTENTIALLY IMPACTED BY THE PROPOSED CONSTRUCTION. WASHINGTON GAS STANDARDS REQUIRE THEIR FACILITIES TO BE MINIMUM 3' BELOW GRADE, AND ALSO REQUIRE 12" VERTICAL SEPARATION FROM ALL UNDERGROUND STRUCTURES.
 IV) WHERE PROPOSED WORK HAS POTENTIAL CONFLICT WITH SERVICE CONNECTIONS, CONTRACTOR SHOULD TEST PIT AND CONTACT WASHINGTON GAS AT (703) 750-1000 IF ADJUSTMENT IS NEEDED.
- PEPCO
 PEPCO WORK TO BE DONE BY OTHERS, TO TAKE APPROXIMATELY 4 WEEKS. WASHINGTON GAS WORK TO BE DONE BY OTHERS, TO TAKE APPROXIMATELY 4 WEEKS. CONTACT UTILITY REPRESENTATIVES TO COORDINATE CONSTRUCTION ACTIVITIES.
 FOR PROPOSED UTILITY RELOCATIONS INCLUDING BUT NOT LIMITED TO WATER LINES AND GAS LINES, SEE UTILITY PLAN SHEETS.

ELECTRICAL SAFETY

PRIOR TO THE START OF WORK WHERE WORK MAY OCCUR WITHIN 10 FEET OF AN OVERHEAD LINE CARRYING 600 VOLTS OR MORE, THE CONTRACTOR SHALL NOTIFY THE UTILITY AT LEAST 5 WORKING DAYS BEFORE ANY WORK BEGINS IN ORDER TO IDENTIFY ENERGIZED LINES OR EQUIPMENT. THE CONTRACTOR SHALL ALLOW THE PROPER SAFETY ARRANGEMENTS TO BE PUT IN PLACE BY THE UTILITY BEFORE COMMENCING HISHER WORK. COMPLIANCE WITH THE MUTUALLY ACCEPTABLE SAFETY ARRANGEMENTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

THE CONTRACTOR SHALL INFORM EMPLOYEES OF THE HAZARDS AND CORRESPONDING PRECAUTIONS WHEN WORKING NEAR HIGH VOLTAGE WHERE THERE IS POTENTIAL FOR PROXIMITY OR CONTACT WITH ENERGIZED LINES OR EQUIPMENT. WORK SHALL NOT BEGIN UNTIL A SAFETY MEETING IS CONDUCTED AND APPROPRIATE STEPS ARE TAKEN TO IDENTIFY, MARK AND WARN AGAINST ACCIDENTAL CONTACT. SUPERVISORS SHALL REVIEW OPERATIONS DAILY TO ENSURE COMPLIANCE. ENERGIZED ELECTRICAL LINES OR EQUIPMENT SHALL BE CONSPICUOUSLY MARKED AND WORKERS SHALL BE REMINDED OF THEIR LOCATIONS. ALL EQUIPMENT USED IN THE VICINITY SHALL BE MARKED WITH WARNING DECALS REGARDING ELECTRICAL CONTACT. WHEN AN EQUIPMENT OPERATOR IS UNABLE TO ASSESS CLEARANCES, PROVIDE A "SPOTTER" TO OBSERVER FOR CLEARANCES AND DIRECT THE OPERATOR.

FAILURE TO COMPLY WITH THE OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) 1926.1408 IS A VIOLATION OF LAW. THE LAW APPLIES TO BOTH PROFESSIONAL AND NON-PROFESSIONAL WORKERS. NO ONE IS EXEMPT FROM COMPLIANCE.

ALL COSTS ASSOCIATED WITH PROTECTION OF WORK IN PROXIMITY TO HIGH VOLTAGE LINES SHALL BE REFLECTED IN THE UNIT PRICES FOR THE APPROPRIATE PAY ITEM.

AMERICANS WITH DISABILITIES ACT (ADA) COMPLIANCE

- THE CONTRACTOR IS ADVISED THAT THE EXISTING CONDITIONS WILL CONTROL CERTAIN FEATURES OF THE PROPOSED RAMP. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONSTRUCT THE PROPOSED RAMP TO BE IN FULL COMPLIANCE WITH THE CURRENT ADA REQUIREMENTS WHILE BLENDING IN WITH THE EXISTING CONDITIONS. AT NO POINT SHALL THE EXISTING FIELD CONDITIONS BE USED AS JUSTIFICATION FOR NOT MEETING THE ADA REQUIREMENTS. IT IS UNDERSTOOD THAT SIDEWALK SURFACES MAY HAVE TO BE WARPED AND /OR PCC COPING OR OTHER ELEMENTS MAY HAVE TO BE INCORPORATED INTO THE WORK TO ENSURE ADA COMPLIANCE UNLESS PROVIDED FOR OTHERWISE. THESE ADDITIONAL FEATURES ARE CONSIDERED TO BE INCIDENTAL TO CONSTRUCTION OF THE PROPOSED RAMP.
- ALL PEDESTRIAN RAMP AND SIDEWALK SHALL BE CONSTRUCTED IN CONFORMANCE WITH DDOT STANDARD DWG. NO'S 606.05 THROUGH 606.13 UNLESS OTHERWISE NOTED. REFER TO THE STANDARD DRAWINGS FOR ADDITIONAL NOTES AND DETAILS.
- ALL RAMP SHALL CONFORM TO THE LATEST AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG) CRITERIA.
- CONTRACTOR'S PROJECT MANAGER WILL CONTACT THE ADA COORDINATOR IN THE EVENT THAT FIELD MODIFICATIONS ARE NEEDED TO THE PROPOSED WORK FOR ADA COMPLIANCE.
- FINAL LOCATION OF RAMP WILL BE REVIEWED AND ACCEPTED BY THE ENGINEER ON SITE. FINAL LOCATION OF RAMP MUST ALSO HAVE WRITTEN APPROVAL FROM DDOT ADA COORDINATOR.

DRAINAGE

- SEWER BENCHMARK SHALL BE USED FOR SEWER CONSTRUCTION.
- WATER BENCHMARK SHALL BE USED FOR WATER CONSTRUCTION.
- THE CONTRACTOR SHALL NOTIFY MISS UTILITY, 1-800-257-7777, 48 HOURS PRIOR TO EXCAVATION.
- THE CONTRACTOR SHALL KEEP ALL THE UTILITIES IN SERVICE DURING CONSTRUCTION. IF ANY UTILITY IS ACCIDENTALLY DISRUPTED DURING CONSTRUCTION, THE UTILITY OWNER AND THE CHIEF ENGINEER SHALL BE NOTIFIED IMMEDIATELY AND REPLACEMENT SHALL BE DONE IMMEDIATELY AT THE CONTRACTOR'S EXPENSE. PLANNED DISRUPTIONS IN UTILITY SERVICE MUST BE COORDINATED THROUGH THE CHIEF ENGINEER.

EROSION AND SEDIMENT CONTROL

- THE CONTRACTOR SHALL KEEP ALL DRAINAGE INLETS PROTECTED USING APPROPRIATE SEDIMENT CONTROL METHODS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION AS SHOWN IN THE PLANS.
- THE CONTRACTOR SHALL INSTALL SEDIMENT CONTROL PROTECTION FOR NEW INLETS IMMEDIATELY AFTER THE INLETS ARE CONSTRUCTED.
- THE CONTRACTOR SHALL INSTALL SEDIMENT CONTROL PROTECTION FOR EXISTING NEARBY INLETS OUTSIDE THE LIMIT OF WORK THAT ARE IMPACTED BY THE CONSTRUCTION.
- THE CONTRACTOR SHALL REMOVE SEDIMENT CONTROL PROTECTION UPON COMPLETION OF EACH PHASE OF CONSTRUCTION AS DIRECTED BY THE CHIEF ENGINEER.

SURVEY

- THE BASE MAPS ARE COMPILED FROM THE FIELD SURVEY DATA PROVIDED BY CAPITOL DEVELOPMENT DESIGN, INC., COMPLETED ON MARCH, 2020.
- HORIZONTAL CONTROL WAS BASED ON MARYLAND STATE PLANE COORDINATE SYSTEM NAD 1988.
- VERTICAL CONTROL WAS BASED ON D.C. ENGINEER'S DATUM.

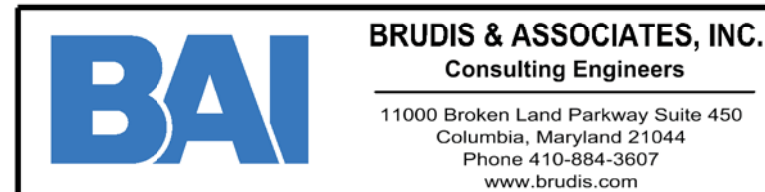
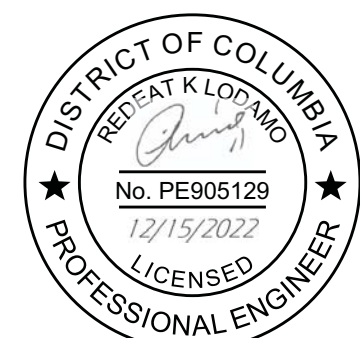
MAINTAINENCE OF TRAFFIC (MOT)

- DURING ALL PHASES OF CONSTRUCTION AND THE DURATION OF THE CONTRACT THE TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH THE CONTRACT DRAWINGS AND SPECIAL PROVISIONS.
- IF THE CONTRACTOR DOES NOT WISH TO USE THE MOT PLANS IN THE CONTRACT DOCUMENTS, ALTERNATE MOT PLANS SHALL BE SUBMITTED BY THE CONTRACTOR TO THE CHIEF ENGINEER FOR APPROVAL.
- TEMPORARY TRAFFIC CONTROL SIGNS SHALL NOT BE INSTALLED AT TREE PROTECTION STRUCTURES.

TREE PROTECTION NOTES

- ALL EXISTING STREET TREES, TO REMAIN WITHIN A WORK ZONE UNTIL A PROJECT IS COMPLETED. REQUIRE THE FOLLOWING AS TREE PROTECTION. IF FOR ANY REASON THE SCOPE OF THE PROJECT REQUIRES WORK TO BE PERFORMED WITHIN THE FENCED PROTECTION ZONE, THE PERMIT HOLDER MUST CONTACT THE DISTRICT DEPARTMENT OF TRANSPORTATION'S URBAN FORESTRY ADMINISTRATION (UFA) AT 202-671-5133 BEFORE ENTERING.
 -SIX (6) FOOT TALL CHAIN LINK FENCING ON ALL SIDES.
 -INSTALL FENCING PRIOR TO AND MAINTAIN THROUGHOUT CONSTRUCTION, REMOVING ONLY AT THE END OF THE PROJECT.
 -FENCING SHALL PROTECT AN AREA NO SMALLER THAN FOUR (4) FEET BY NINE (9) FEET, CENTERED ON THE TREE OR ENCLOSE MULTIPLE STREET TREES WHEN IN A CONTINUOUS, OPEN TREE PLANTING SPACE AND SITE ACCESS ALLOWS.
 -FENCING SHALL HAVE VERTICAL AND HORIZONTAL SUPPORT RAILINGS TO DECREASE FLEXIBILITY AND PREVENT SAGGING.
 -FENCE POSTS SHALL BE ANCHORED IN THE GROUND TO PREVENT MOVEMENT AND PROVIDE A SECURE BARRIER.
 -MINIMUM OF TWO (2) DDOT UFA A STANDARD TREE PRESERVATION SIGNS SHALL BE MOUNTED ON THE FENCE OF EACH ENCLOSED TREE PROTECTION AREA.
- NO INSTALLATION OF SILT FENCES/SUPER SILT FENCE, TRENCHING, ALTERATION OR DISTURBANCE TO EXISTING GRADE; STAGING/STORAGE OF CONSTRUCTION MATERIALS, EQUIPMENT, SOIL, OR DEBRIS; DISPOSAL OF ANY MATERIALS SUCH AS CONCRETE, GAS, OIL, PAINT, OR BLACKTOP IS ALLOWED WITHIN THE FENCED TREE PROTECTION ZONE.
- EXCAVATIONS WITHIN THE DRIP LINE SHALL PROCEED WITH CARE BY USE OF HAND TOOLS. THE DRIPLINE IS DEFINED AS THE GROUND AREA UNDER THE CANOPY OF THE TREE.
- NO ROOTS LARGER THAN TWO (2) INCHES IN DIAMETER ARE TO BE CUT WITHOUT UFA PERMISSION.
- EXPOSED ROOTS TWO (2) INCHES AND LARGER IN DIAMETER SHALL BE WRAPPED IN BURLAP OR OTHER APPROVED MATERIAL AND KEPT MOIST AT ALL TIMES.
- TREES THAT ARE PROTECTED ARE TO BE WATERED EVERY TEN (10) DAYS FROM APRIL THROUGH SEPTEMBER.
- SECTION 608.07 - TREE PROTECTION AND 608.08 - TREE ROOT PROTECTION OF THE 2013 DISTRICT DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAYS AND STRUCTURES WILL APPLY SHOULD ANY DAMAGE OCCUR TO THE EXISTING STREET TREES.
- ANY FINES RELATED TO DAMAGE TO A STREET TREE ON A JOB SITE SHALL BE THE RESPONSIBILITY OF THE PERMIT HOLDER.
- FOR ANY QUESTIONS, CALL DDOT URBAN FORESTRY ADMINISTRATION AT 202-671-5133.

P:\17-005_DDOT_AE_Schedule\1_Pennsylvania Ave, Potomac Ave Improvements\Drawings\CADD\Working\06-N-002_Penn Ave & Potomac Ave.dgn Friday, December 16, 2022 AT 02:34 PM



NO.	DESCRIPTION	NAME	DATE

DATED: DECEMBER, 2022	SCALE: NONE	GN-02
D.C. DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT DIVISION		
PENNSYLVANIA AND POTOMAC AVE SE INTERSECTION IMPROVEMENT PROJECT		PROJECT ENG. <u> BK </u> DESIGNED BY <u> BK/RKL </u> CHECKED BY <u> BK </u> DRAWN BY <u> BK </u> PROJECT MGR. <u> RKL </u>
GENERAL NOTES		DIVISION CHIEF DATE _____ FILE _____ SHEET 4 OF 167

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.	FAP NO. STP - 2018 (009)	6	167

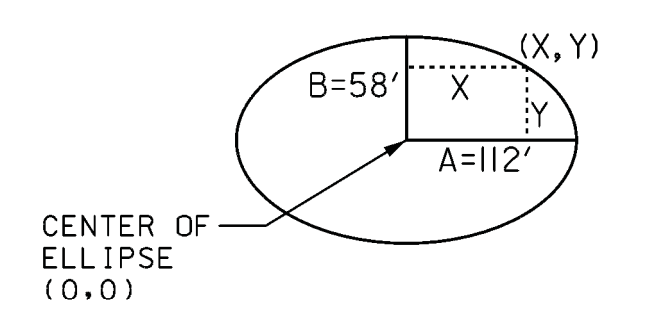
NOTES:
 1. THE DESIGN IS BASED ON SURVEY DATA PERFORMED BY CAPITOL DEVELOPMENT DESIGN, INC., IN MARCH 2020, AND UPDATED SEPTEMBER 2021.
 2. COORDINATES ARE BASED ON MARYLAND STATE PLANE AND ELEVATIONS ARE BASED ON D.C. DATUM

TRAVERSE CONTROL				
TRAV PT.	NORTHING	EASTING	ELEVATION	DESCRIPTION
TRV 34	441275.8520	1315216.1320	51.15	WILES MENSCH BRASS DISK
TRV 35	441275.1530	1315636.9960	55.76	WILES MENSCH BRASS DISK
TRV 99 MN	441277.3827	1316431.4027	51.70	
TRV 100 P&C	442024.5973	1316434.6669	65.48	
TRV 101 MN	441813.5962	1316035.3313	66.50	
TRV 102 MN	441545.4621	1315486.8269	60.23	
TRV 103 =34 CSX BD	441275.8208	1315216.1342	51.11	
TRV 104 =35 CSX BD	441275.1401	1315637.0013	55.71	
FLY 105 P&C	441860.1238	1316757.4195	62.87	
FLY 106 P&C	442158.4124	1316184.9105	67.67	
FLY 107 MN	441992.0787	1316329.7160	64.89	
FLY 108 LN	441935.2928	1316312.5245	65.00	
FLY 109 MN	442182.0986	1316473.2108	65.20	
FLY 110 MN	442230.9621	1316529.5200	66.54	
FLY 111 LN	441875.6858	1316428.8378	63.74	
FLY 112 MN	442081.5198	1316635.5545	66.04	
FLY 113 MN	442000.8329	1316594.3694	63.57	
FLY 114 MN	441915.1473	1316460.7904	63.92	
FLY 115 LN	442117.8893	1316741.1890	65.12	
FLY 116 LN	442129.9919	1316767.9636	64.98	
FLY 117 XMARK	441949.3793	1316704.6406	63.27	

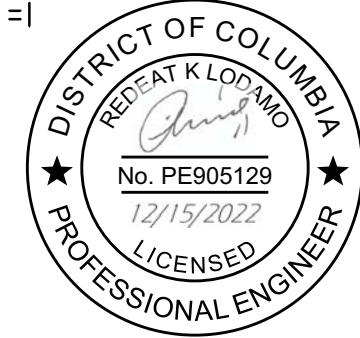
BASELINE OFFSETS		
TRAV PT.	OFFSETS	
TRV 100 P&C	103+63.95 PENNSYLVANIA AVE SE L=11.97 LT 302+36.65 14TH ST SE L=22.93 LT	
FLY 105 P&C	107+26.17 PENNSYLVANIA AVE SE L=15.35 LT 205+35.43 POTOMAC AVE SE L=261.71 RT	
FLY 106 P&C	100+80.62 PENNSYLVANIA AVE SE L=15.15 LT 201+65.43 POTOMAC AVE SE L=267.29 LT	
FLY 107 MN	102+85.92 PENNSYLVANIA AVE SE L=65.39 RT 202+17.03 POTOMAC AVE SE L=52.88 LT	
FLY 108 LN	102+96.93 PENNSYLVANIA AVE SE L=123.69 RT 201+75.56 POTOMAC AVE SE L=10.46 LT	
FLY 109 MN	103+25.30 PENNSYLVANIA AVE SE L=169.45 LT 303+94.03 14TH ST SE L=16.10 RT	
FLY 110 MN	103+52.64 PENNSYLVANIA AVE SE L=238.81 LT 304+42.71 14TH ST SE L=72.57 RT	
FLY 111 LN	104+27.62 PENNSYLVANIA AVE SE L=122.76 RT 300+87.75 14TH ST SE L=29.23 LT	
FLY 112 MN	105+15.76 PENNSYLVANIA AVE SE L=155.32 LT 205+29.60 POTOMAC AVE SE L=9.06 RT	
FLY 113 MN	105+16.54 PENNSYLVANIA AVE SE L=64.74 LT 204+55.81 POTOMAC AVE SE L=61.60 RT	
FLY 114 MN	104+37.71 PENNSYLVANIA AVE SE L=73.00 RT 301+27.11 14TH ST SE L=2.85 RT	
FLY 115 LN	105+92.61 PENNSYLVANIA AVE SE L=236.41 LT 206+40.09 POTOMAC AVE SE L=25.59 RT	
FLY 116 LN	106+10.75 PENNSYLVANIA AVE SE L=259.52 LT 303+41.00 14TH ST SE L=310.69 RT	
FLY 117 XMARK	106+38.11 PENNSYLVANIA AVE SE L=70.09 LT 303+41.00 14TH ST SE L=310.69 RT	

- EQUALIZATION STATIONS**
- Ⓐ PENNSYLVANIA AVE SE STA. 103+96.14
POTOMAC AVE SE STA. 203+33.77
14TH ST STA. 302+11.07
N=441999.0973
E=1316457.6800
 - Ⓑ PENNSYLVANIA AVE SE STA. 102+84.14
ELLIPSE CURB STA. 12+21.22
 - Ⓒ 14TH ST STA. 302+74.29
ELLIPSE CURB STA. 11+13.81
 - Ⓓ POTOMAC AVE SE STA. 204+00.31
ELLIPSE CURB STA. 10+45.98
 - Ⓔ PENNSYLVANIA AVE SE STA. 105+08.14
ELLIPSE CURB STA. 14+95.03
 - Ⓕ 14TH ST STA. 301+47.85
ELLIPSE CURB STA. 13+87.63
 - Ⓖ POTOMAC AVE SE STA. 202+67.23
ELLIPSE CURB STA. 13+19.80

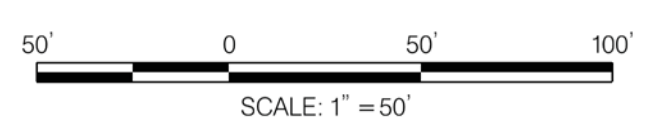
LAYOUT DATA FOR BASELINE OF ELLIPSE CURB



MAJOR AXIS (A)=112'
 MINOR AXIS (B)=58'
 COORDINATE (X, Y) CAN BE DETERMINED USING FOLLOWING EQUATION:
 $\frac{X^2}{A^2} + \frac{Y^2}{B^2} = 1$



BAI BRUDIS & ASSOCIATES, INC.
 Consulting Engineers
 11000 Broken Land Parkway Suite 450
 Columbia, Maryland 21044
 Phone 410-884-3607
 www.brudis.com



NO.	DESCRIPTION	NAME	DATE

DATED: DECEMBER, 2022 SCALE: 1" = 50' **GS-01**

D.C. DEPARTMENT OF TRANSPORTATION
 INFRASTRUCTURE PROJECT MANAGEMENT DIVISION

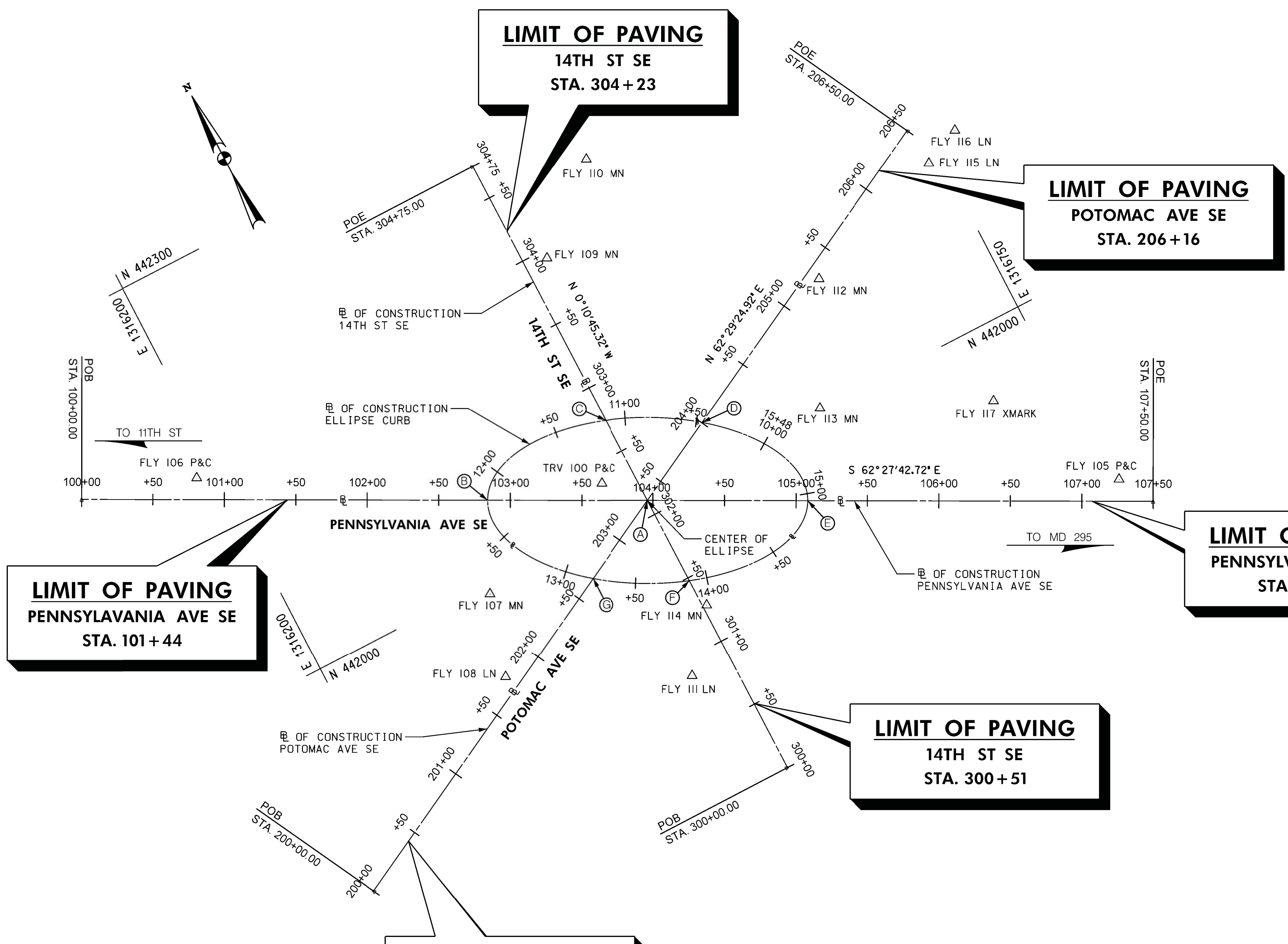
PENNSYLVANIA AND POTOMAC AVE SE INTERSECTION IMPROVEMENT PROJECT

PROJECT ENG. BK
 DESIGNED BY BK/RKL
 CHECKED BY RKL
 DRAWN BY BK
 PROJECT MGR. RKL

GEOMETRIC LAYOUT AND CONTROL POINTS

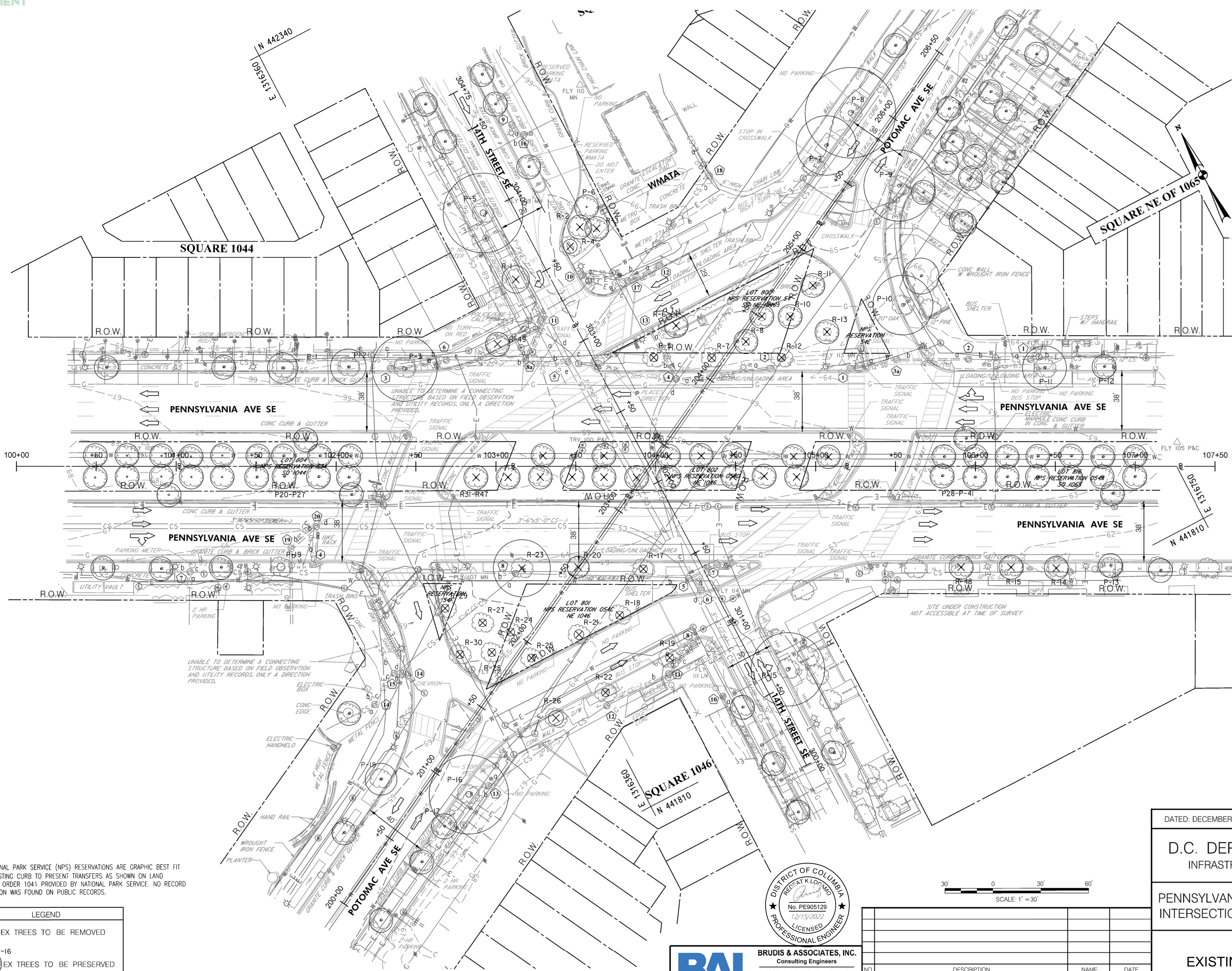
DIVISION CHIEF _____
 DATE _____
 FILE _____
 SHEET 6 OF 167

BASELINE CONTROL COORDINATES					
BASELINE	POINT NO.	STATION	NORTH	EAST	BEARING
PENNSYLVANIA AVENUE SE	POB	100+00.00	442182.2484	1316106.4210	S 62°27'42.72" E
	POE	107+50.00	441835.4943	1316771.4485	
POTOMAC AVENUE SE	POB	200+00.00	441844.9286	1316161.6475	N 62°29'24.92" E
	POE	206+50.00	442145.1632	1316738.1535	
14TH STREET SE	POB	300+00.00	441788.0248	1316458.3403	N 0°10'45.32" W
	POE	304+75.00	442263.0224	1316456.8543	



P:\17-005_DD0T_AE_Schedule\1_Pennsylvania Ave. Potomac Ave Improvements\CADD\Working\05-P000_Penn Ave & Potomac Ave.dgn
 Friday, December 16, 2022 11:02:45 PM

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.	FAP NO. STP - 2018 (009)	7	167



SANITARY SEWER DATA:

1	ELEV = 63.15' (TOP RIM) a INV. IN = 52.46' (12") b INV. OUT = 52.42' (12")	11	ELEV = 63.91' (TOP RIM) a INV. IN = 59.44' (12") b INV. IN = 53.13' (12") c INV. OUT = 53.05' (12")
2	ELEV = 63.30' (TOP RIM) a INV. IN = 52.82' (12") b INV. OUT = 52.75' (12")	12	ELEV = 64.23' (TOP RIM) NOTE: CLOGGED
3	ELEV = 63.26' (TOP RIM) a INV. IN = 57.44' (12") b INV. OUT = 53.12' (12")	13	ELEV = 64.96' (TOP RIM) a INV. IN = 56.24' (12") b INV. OUT = 55.36' (12")
4	ELEV = 63.91' (TOP RIM) a INV. IN = 61.65' (12" STL) b INV. IN = 59.53' (15" STL) c INV. IN = 39.85' (4X6) d INV. OUT = 39.73' (4X6)	14	ELEV = 65.12' (TOP RIM) a INV. IN = 61.41' b INV. IN = 59.45' (18") c INV. IN = 54.06' (12") d INV. OUT = 54.01' (12")
5	ELEV = 64.70' (TOP RIM) a INV. IN = 61.06' b INV. IN = 54.06' (12" TC) c INV. IN = 50.15' (18" TC) d INV. IN = 40.44' e INV. OUT = 40.20'	15	ELEV = 65.29' (TOP RIM) a INV. IN = 56.29' (8" PVC) b INV. IN = 55.17' (8" PVC) c INV. OUT = 54.41' (12")
6	ELEV = 65.57' (TOP RIM) a INV. IN = 61.17' (12" TC) b INV. IN = 55.51' c INV. OUT = 55.36' (18" TC)	16	ELEV = 65.31' (TOP RIM) a INV. IN = 52.05' (12") b INV. OUT = 51.61' (12")
7	ELEV = 66.21' (TOP RIM) a INV. IN = 56.22' (8" PVC) b INV. IN = 55.86' (12" TC) c INV. OUT = 55.82' (12" TC)	17	ELEV = 65.43' (TOP RIM) a INV. IN = 58.16' (15") b INV. IN = 51.25' (12" TC) c INV. OUT = 50.76' (18")
8	ELEV = 64.78' (TOP RIM) a INV. IN = 52.27' (12") b INV. IN = 52.24' (12") c INV. OUT = 51.95' (12")	18	ELEV = 66.01' (TOP RIM) a INV. IN = 51.80' (12" TC) b INV. OUT = 51.71' (12" TC)
9	ELEV = 59.66' (TOP RIM) a INV. OUT = 49.10' (10")	19	ELEV = 65.57' (TOP RIM) a INV. IN = 52.19' (18") b INV. OUT = 51.89' (18")
10	ELEV = 63.02' (TOP RIM) a INV. OUT = 52.41' (10")	20	ELEV = 65.93' (TOP RIM) a INV. IN = 61.23' (12") b INV. IN = 51.55' (20") c INV. IN = 45.29' (60") d INV. OUT = 45.19' (60")
8a	ELEV = 65.07' (TOP RIM) a INV. IN = 56.04' (12") b INV. IN = 55.09' (15") c INV. IN = 54.60' (18") INVERTS ARE FROM DC WATER ASBULT 07-156/07-161 COULD NOT BE FIELD VERIFIED		

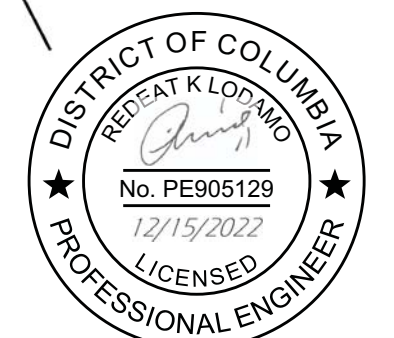
STORM SEWER DATA:

1	ELEV = 63.41' (TOP RIM) a INV. OUT = 58.51' (14")	8	ELEV = 63.57' (TOP RIM) a INV. OUT = 58.83' (12")
2	ELEV = 63.75' (TOP RIM) a INV. OUT = 59.23' (12")	9	ELEV = 65.84' (TOP RIM) a INV. OUT = 60.06' (10")
3	ELEV = 65.80' (TOP RIM) a INV. OUT = 60.70' (12")	10	ELEV = 65.03' (TOP RIM) a INV. OUT = 58.73' (12")
4	ELEV = 65.65' (TOP RIM) INV. OUT = 59.97' (24")	11	ELEV = 64.92' (TOP RIM) a INV. OUT = 59.82' (10")
5	ELEV = 63.89' (TOP RIM) a INV. IN = 59.73' (16") b INV. IN = 59.59' (24" BRICK) c INV. OUT = 38.55' (66") d INV. OUT = 38.55' (66")	12	ELEV = 65.28' (TOP RIM) a INV. OUT = 60.06' (12")
7	ELEV = 63.70' (TOP RIM) a INV. OUT = 58.16' (16")	13	ELEV = 64.91' (TOP RIM) a INV. OUT = 59.99' (16")
6	ELEV = 63.98' (TOP RIM) a INV. OUT = 59.48' (14")	14	ELEV = 64.92' (TOP RIM) a INV. OUT = 61.02' (12")

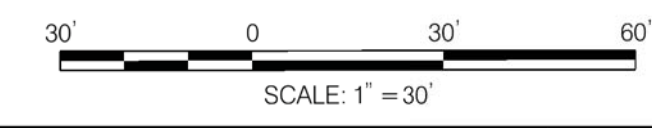
NOTES:
ALL NATIONAL PARK SERVICE (NPS) RESERVATIONS ARE GRAPHIC BEST FIT FROM EXISTING CURB TO PRESENT TRANSFERS AS SHOWN ON LAND TRANSFER ORDER 1041 PROVIDED BY NATIONAL PARK SERVICE. NO RECORD INFORMATION WAS FOUND ON PUBLIC RECORDS.

LEGEND

	EX TREES TO BE REMOVED
	EX TREES TO BE PRESERVED (REFER LANDSCAPE PLANS)



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Phone 410-884-3607
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NO.	DESCRIPTION	NAME	DATE

DATED: DECEMBER, 2022 SCALE: 1" = 30' **EX-01**

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT DIVISION

PENNSYLVANIA AND POTOMAC AVE SE INTERSECTION IMPROVEMENT PROJECT

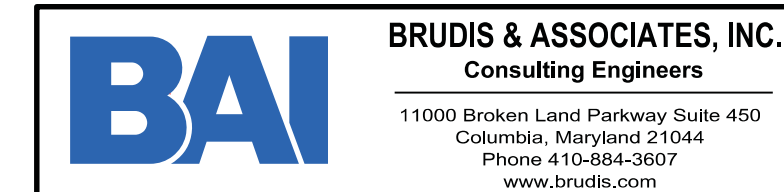
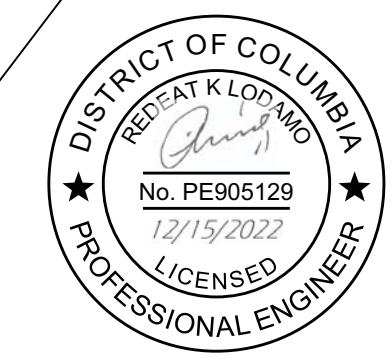
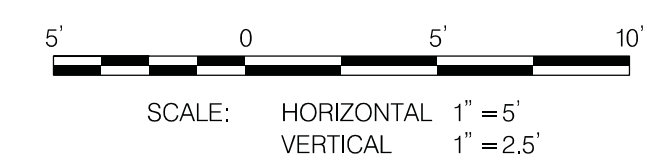
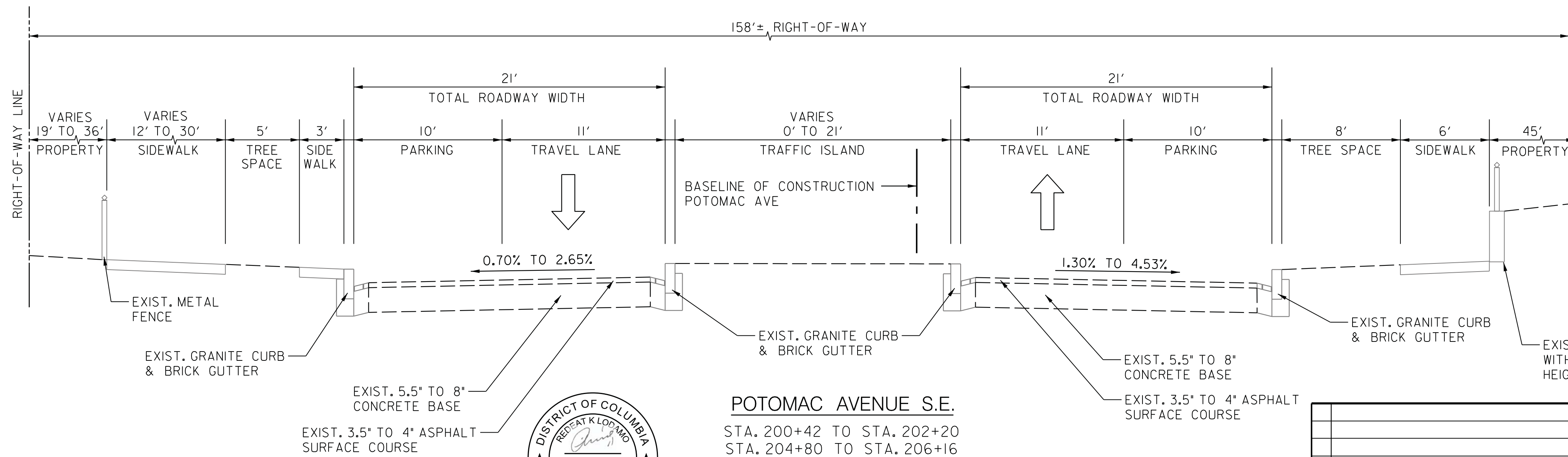
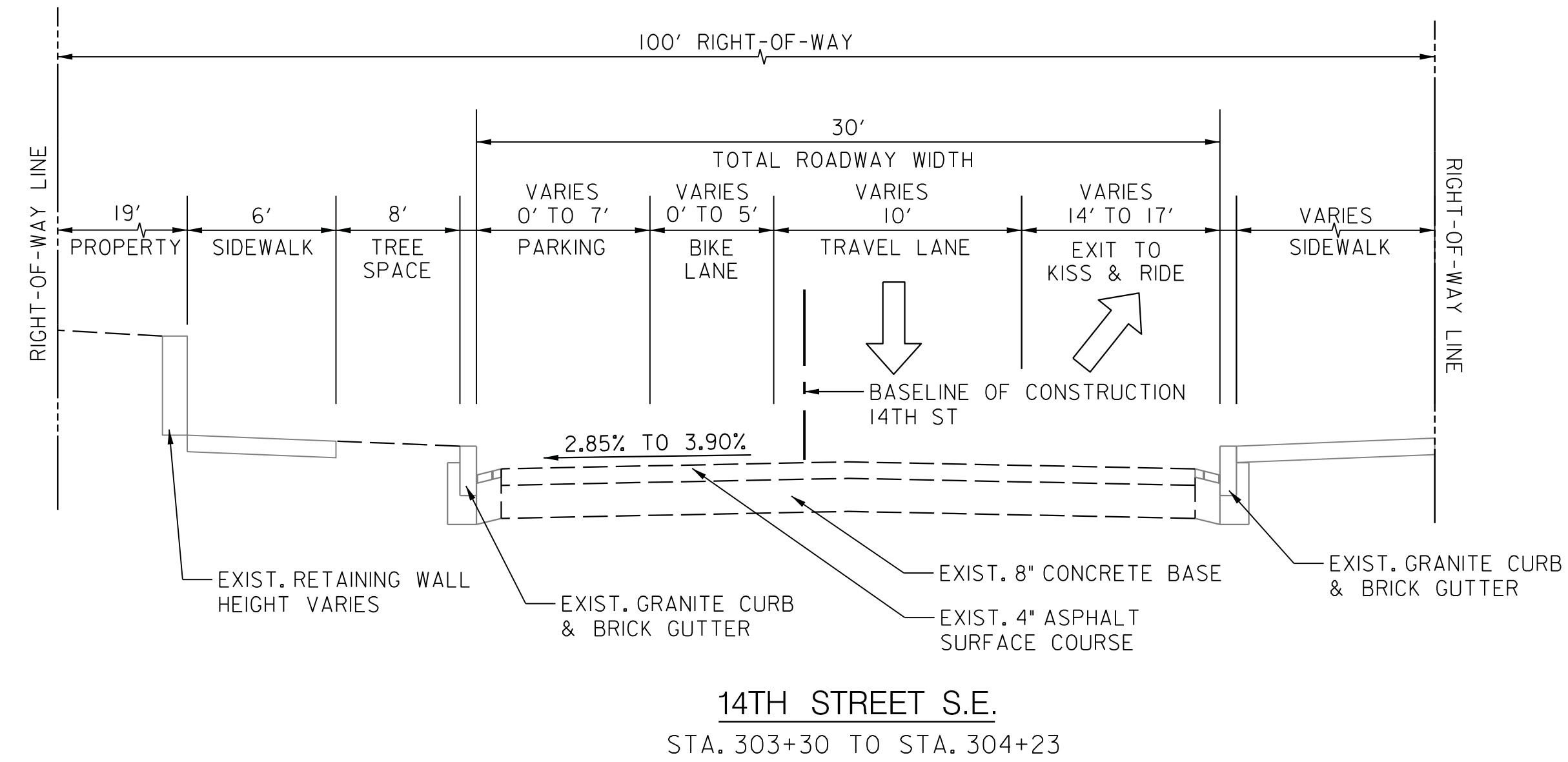
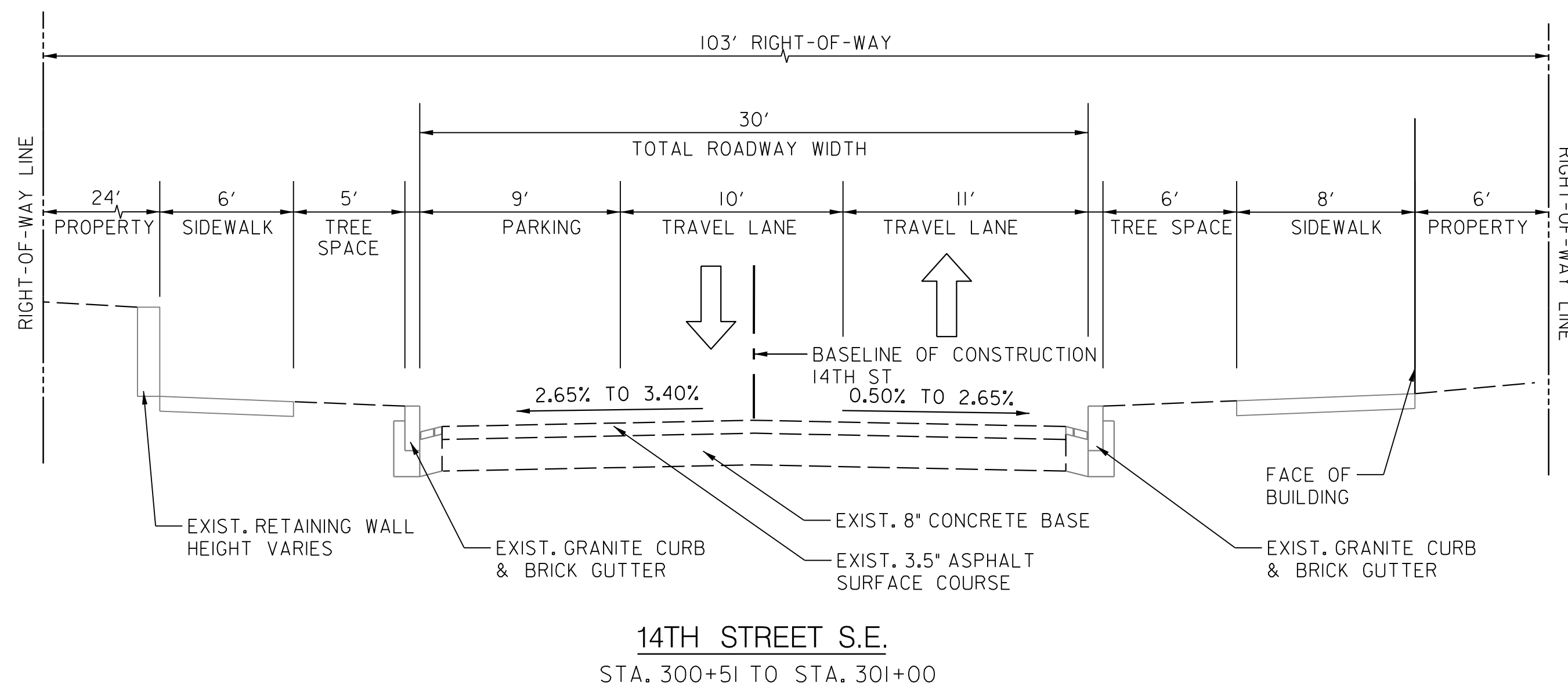
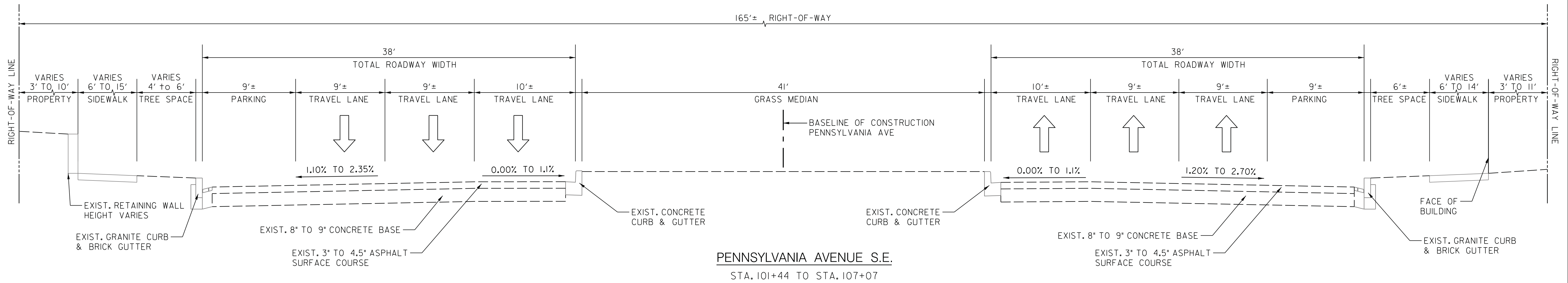
EXISTING CONDITIONS PLAN

PROJECT ENG: BK
DESIGNED BY: BK/BKL
CHECKED BY: BKL
DRAWN BY: BK
PROJECT MGR: BKL

DIVISION CHIEF

DATE:
FILE:
SHEET 7 OF 167

P:\17-005 DDOT AE Schedule\1. Pennsylvania Ave Improvements\CADD\Working\EX-P000_Penn Ave & Potomac Ave.dgn Friday, December 16, 2022 AT 03:21 PM

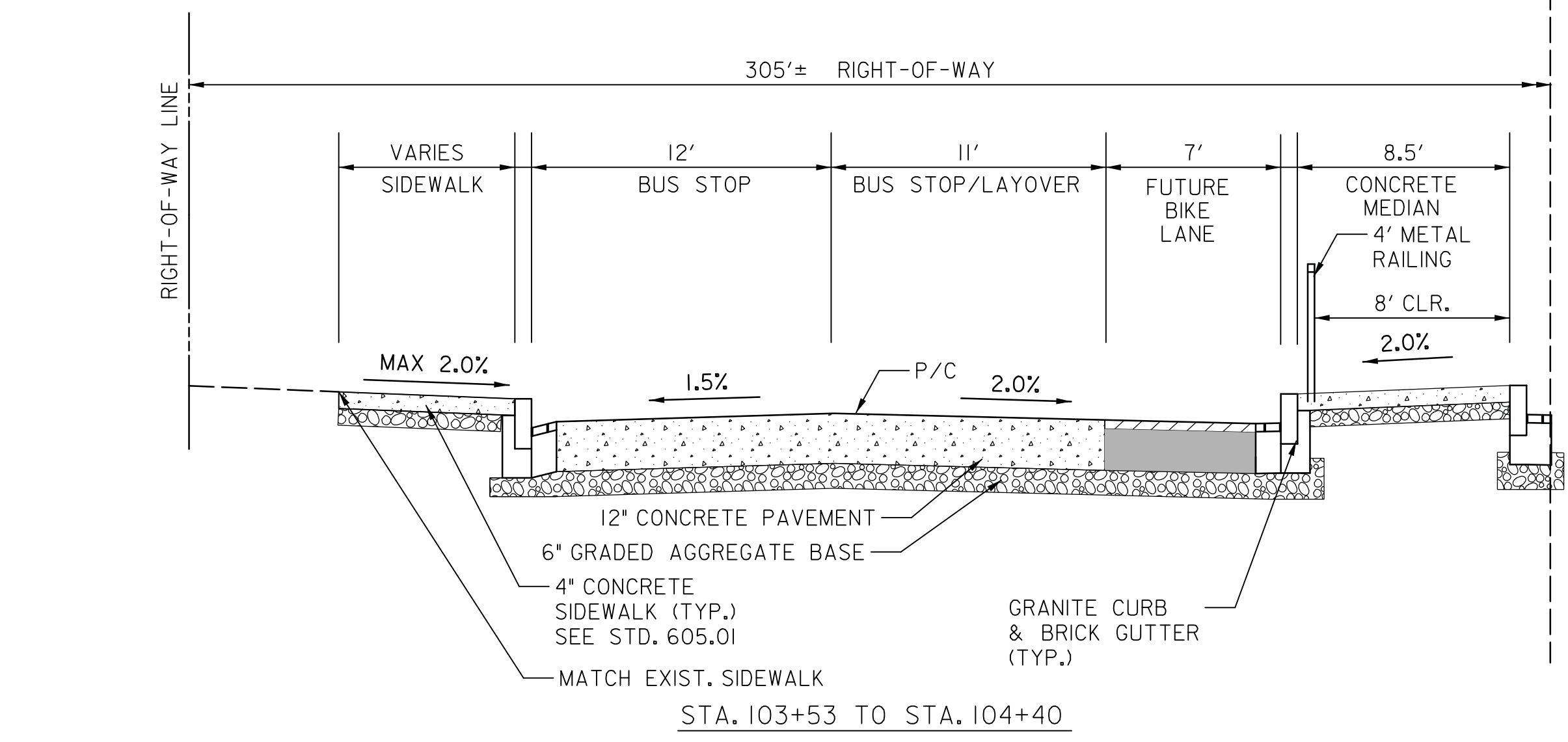
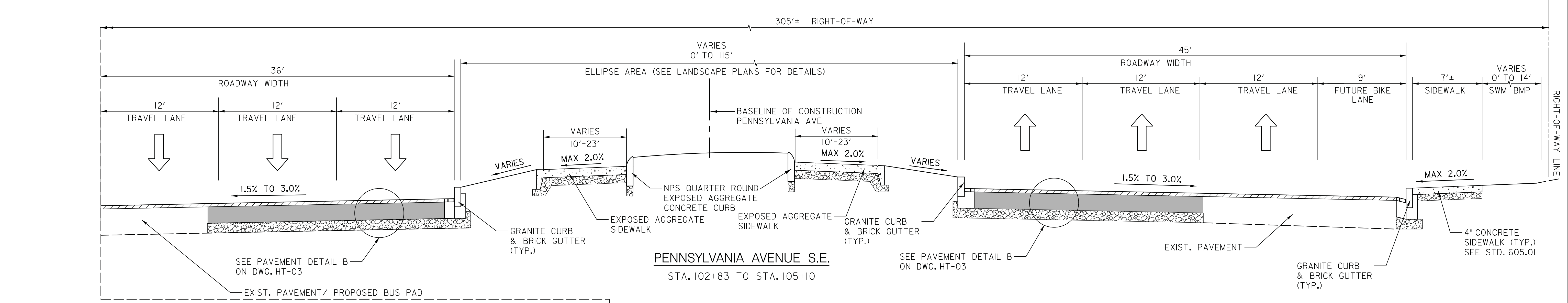
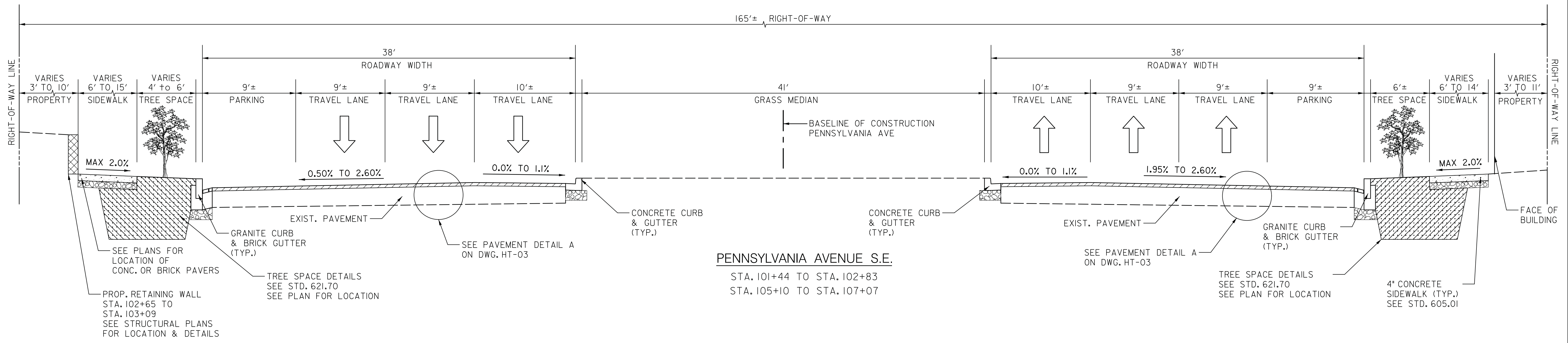


NO.	DESCRIPTION	NAME	DATE

DATED: DECEMBER, 2022	SCALE: AS SHOWN	HT-01
D.C. DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT DIVISION		
PENNSYLVANIA AND POTOMAC AVE SE INTERSECTION IMPROVEMENT PROJECT		
EXISTING TYPICAL SECTIONS		PROJECT ENG. <u> </u> BK DESIGNED BY <u> </u> BK / RKL CHECKED BY <u> </u> BK DRAWN BY <u> </u> BK PROJECT MGR. <u> </u> RKL
		DIVISION CHIEF
		DATE <u> </u> / <u> </u> / <u> </u>
		FILE <u> </u> / <u> </u> / <u> </u>
		SHEET 8 OF 167

P:\17-005_DDOT_AE_Schedule_V\Pennsylvania Ave. Potomac Ave Improvements\CADD\Drawings\PH\001_Penn Ave & Potomac Ave.dgn 11/30/2022

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.	FAP NO. STP - 2018 (009)	9	167



- NOTES:
- REFER TO PAVEMENT PLAN FOR EXACT LIMIT OF OVERLAY AND FULL DEPTH RECONSTRUCTION.
 - REFER TO LANDSCAPE PLANS FOR PAVING DETAILS IN THE ELLIPSE AREA.

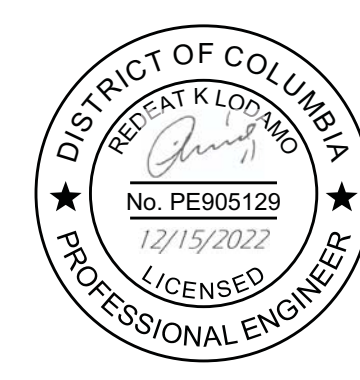
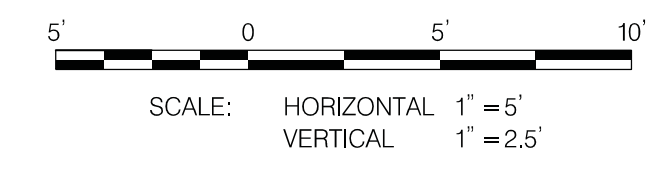
DATED: DECEMBER, 2022 SCALE: AS SHOWN HT-02

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT DIVISION

PENNSYLVANIA AND POTOMAC AVE SE INTERSECTION IMPROVEMENT PROJECT

PROPOSED TYPICAL SECTIONS

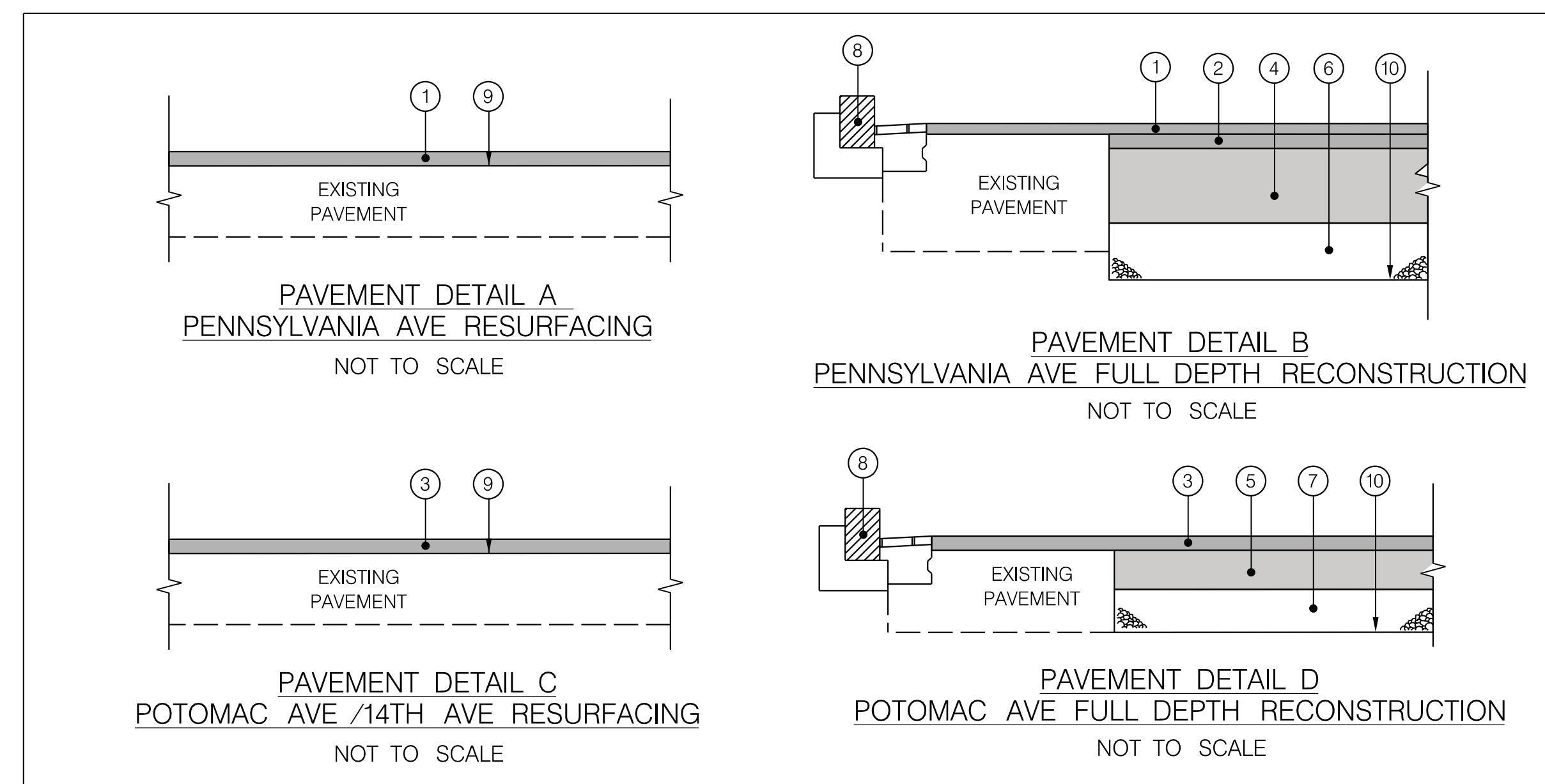
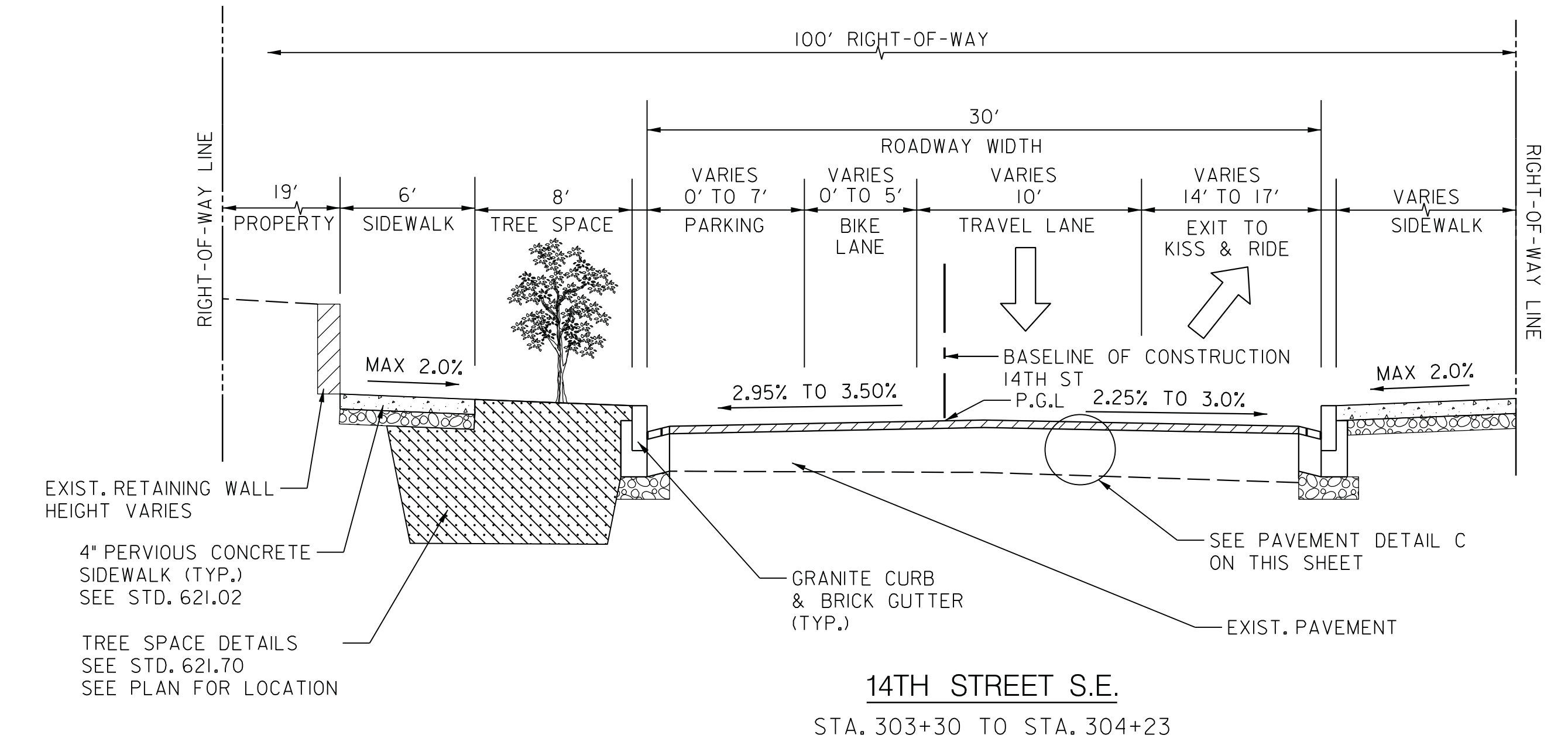
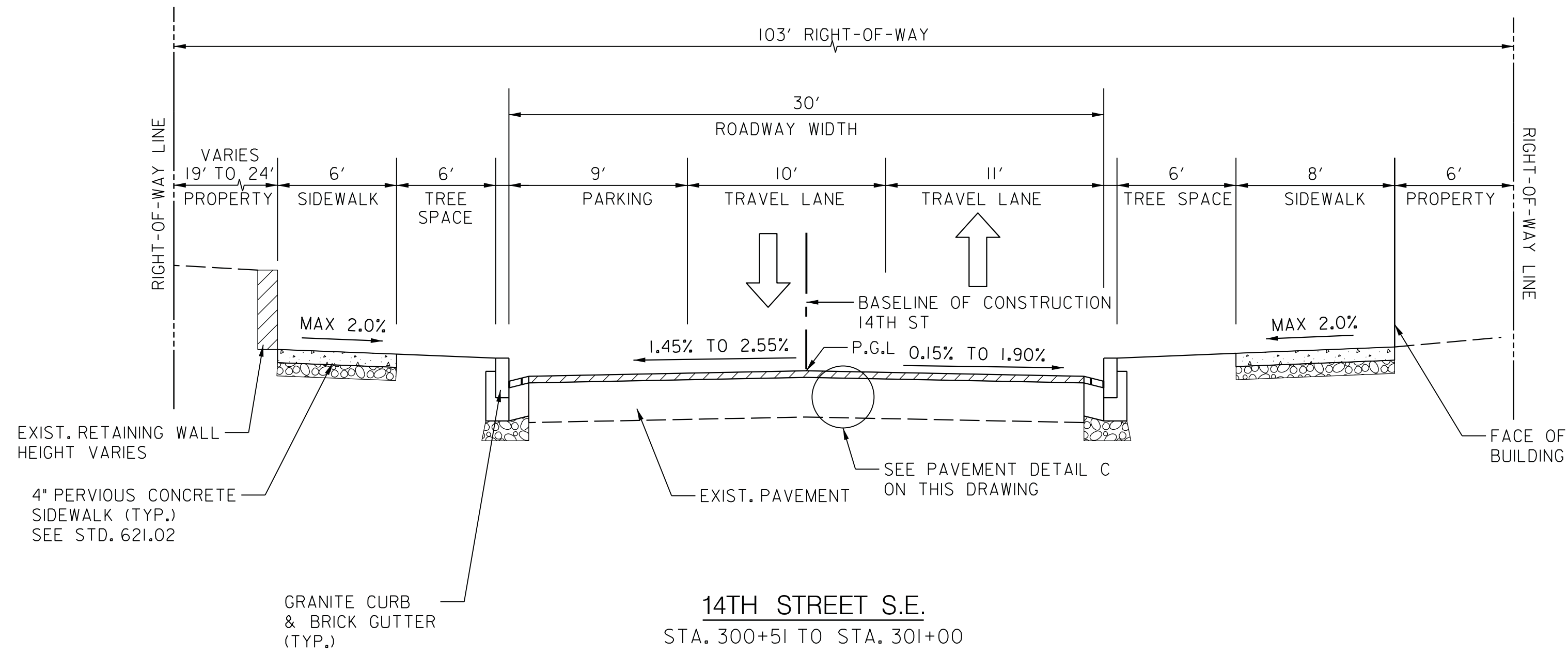
PROJECT ENG.	___BK___
DESIGNED BY	___BK___/___RKL___
CHECKED BY	___RKL___
DRAWN BY	___RKL___
PROJECT MGR.	___RKL___
DIVISION CHIEF	
DATE	_____
FILE	_____
SHEET	9 OF 167



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Columbia, Maryland 21044
Phone 410-884-3607
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NO.	DESCRIPTION	NAME	DATE

P:\17-005-DDOT-AE-Schedule\1_Pennsylvania Ave, Potomac Ave Improvements\CADD\Working\DH-0002-Penn Ave & Potomac Ave.dgn 1/20/2022

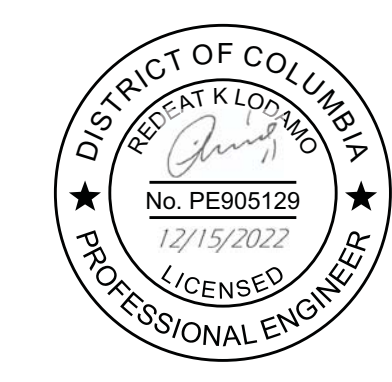
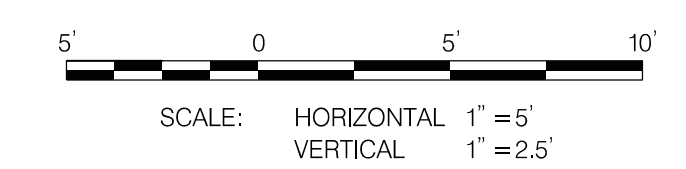
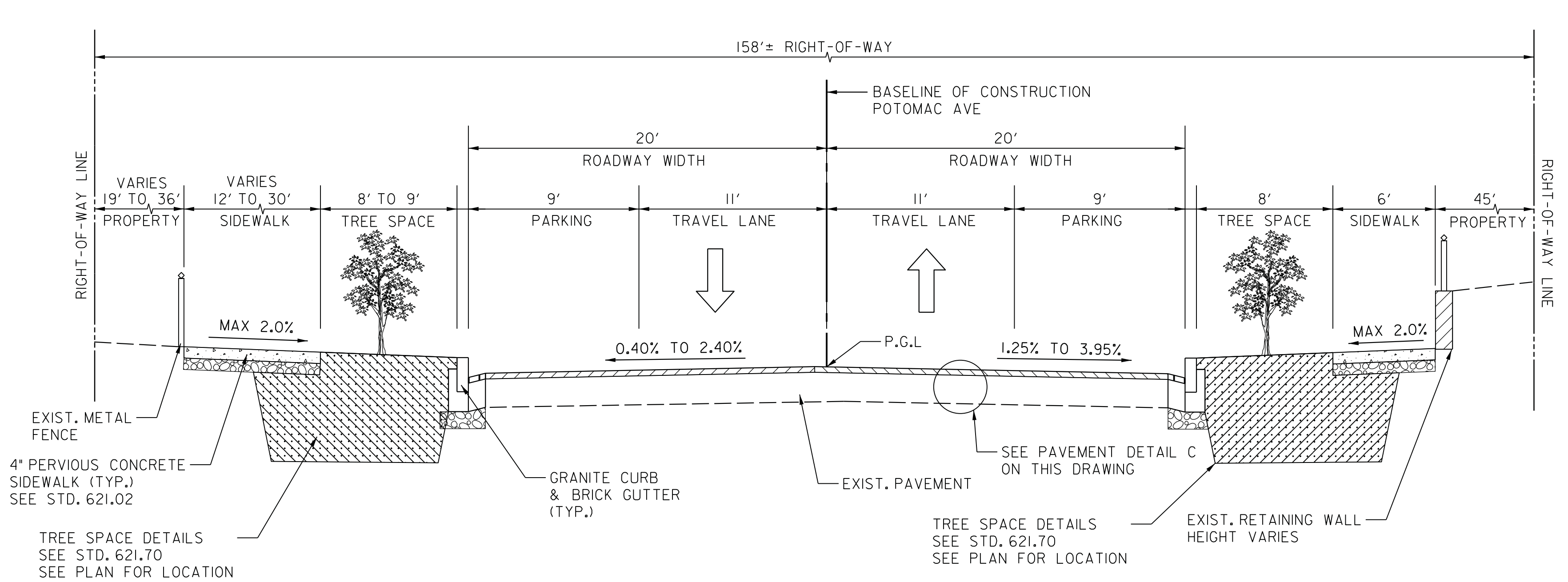


PAVEMENT LEGEND

- ① 1.5" HMA SURFACE COURSE SUPERPAVE, 9.5 mm - PG 70-22
- ② 2.0" HMA SURFACE COURSE SUPERPAVE, 12.5 mm - PG 70-22
- ③ 2.0" HMA SURFACE COURSE SUPERPAVE, 12.5 mm - PG 64-22
- ④ 10.5" HMA BASE COURSE SUPERPAVE, 19.0 mm - PG 70-22
- ⑤ 5.5" HMA BASE COURSE SUPERPAVE, 19.0 mm - PG 64-22
- ⑥ 8" GRADED AGGREGATE BASE COURSE
- ⑦ 6" GRADED AGGREGATE BASE COURSE
- ⑧ 8" X 12" GRANITE CURB WITH BRICK GUTTER (SEE DWG. HD-01 FOR DETAILS)
- ⑨ TOP OF EXISTING PAVEMENT AFTER 1.5" TO 2" FINE MILLING
- ⑩ LIMIT OF EXCAVATION AND TOP OF SUBGRADE

PAVING NOTES:

1. IF WEDGE /LEVELING IS REQUIRED TO MAKE GRADE OR CROSS SLOPE ADJUSTMENTS USE THE FOLLOWING:
HMA LEVELING COURSE SUPERPAVE, 9.5 MM
2. FOR AREAS WITH OVERLAY, USE THE FOLLOWING:
VARIABLE DEPTH OF HMA BASE COURSE SUPERPAVE, 19.0 MM
2.0" HMA SURFACE COURSE SUPERPAVE, 12.5 MM
1.5" HMA SURFACE COURSE SUPERPAVE, 9.5 MM
3. IN AREAS WHERE SOFT OR UNSTABLE SPOTS ARE OBSERVED, A GEOTEXTILE CLASS 'ST' WOVEN CONFORMING TO DDOT STANDARD SPECIFICATIONS SHOULD BE PLACED ON TOP OF THE EXPOSED SUBGRADE.
4. PAVEMENT LIFT THICKNESS SHOULD CONFORM TO TABLE 27-9 OF DDOT DESIGN AND ENGINEERING MANUAL



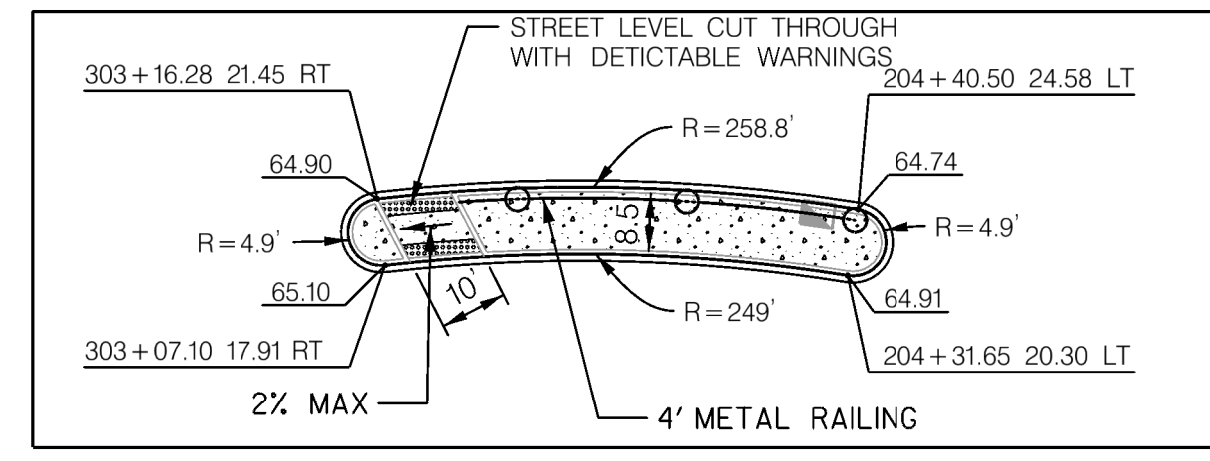
BAI BRUDIS & ASSOCIATES, INC.
Consulting Engineers
11000 Broken Land Parkway Suite 450
Columbia, Maryland 21044
Phone 410-884-3607
www.brudis.com

NO.	DESCRIPTION	NAME	DATE
REVISIONS			

DATED: DECEMBER, 2022	SCALE: AS SHOWN	HT-03
D.C. DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT DIVISION		
PENNSYLVANIA AND POTOMAC AVE SE INTERSECTION IMPROVEMENT PROJECT		PROJECT ENG. <u> </u> /BK/ DESIGNED BY <u> </u> /BK/ CHECKED BY <u> </u> /BK/ DRAWN BY <u> </u> /BK/ PROJECT MGR. <u> </u> /BK/
PROPOSED TYPICAL SECTIONS		DIVISION CHIEF
DATE <u> </u> / <u> </u> / <u> </u>		FILE <u> </u> / <u> </u> / <u> </u>
SHEET 10 OF 167		

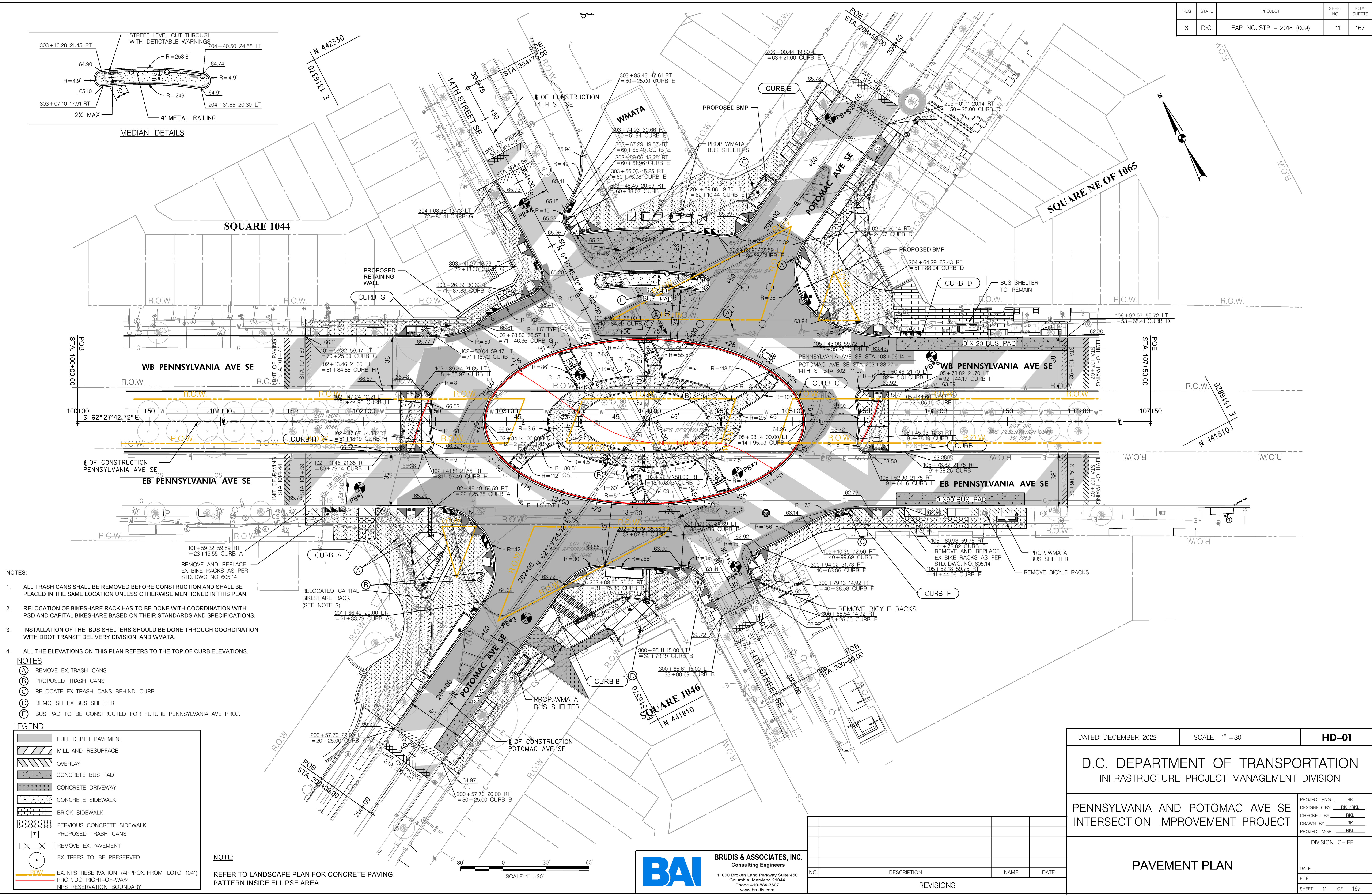
P:\17-005_DDOT_AE_Schedule\1_Pennsylvania Ave, Potomac Ave Improvements\CADD\Working\pHT-0003_Penn Ave & Potomac Ave.dgn 11/30/2022

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.	FAP NO. STP - 2018 (009)	11	167



MEDIAN DETAILS

P:\17-005 DDOT AE Schedule\1.Pennsylvania Ave.Potomac Ave Improvements\Drawings\CADD\Working\PHD-P000_Penn Ave & Potomac Ave.dgn
F:\ddot, February 17, 2023, AT 04:37 PM

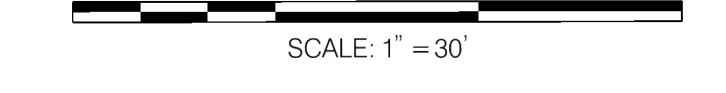


- NOTES:
- ALL TRASH CANS SHALL BE REMOVED BEFORE CONSTRUCTION AND SHALL BE PLACED IN THE SAME LOCATION UNLESS OTHERWISE MENTIONED IN THIS PLAN.
 - RELOCATION OF BIKESHARE RACK HAS TO BE DONE WITH COORDINATION WITH PSD AND CAPITAL BIKESHARE BASED ON THEIR STANDARDS AND SPECIFICATIONS.
 - INSTALLATION OF THE BUS SHELTERS SHOULD BE DONE THROUGH COORDINATION WITH DDOT TRANSIT DELIVERY DIVISION AND WMATA.
 - ALL THE ELEVATIONS ON THIS PLAN REFERS TO THE TOP OF CURB ELEVATIONS.
- NOTES
- (A) REMOVE EX. TRASH CANS
 - (B) PROPOSED TRASH CANS
 - (C) RELOCATE EX. TRASH CANS BEHIND CURB
 - (D) DEMOLISH EX. BUS SHELTER
 - (E) BUS PAD TO BE CONSTRUCTED FOR FUTURE PENNSYLVANIA AVE PROJ.

LEGEND

	FULL DEPTH PAVEMENT
	MILL AND RESURFACE
	OVERLAY
	CONCRETE BUS PAD
	CONCRETE DRIVEWAY
	CONCRETE SIDEWALK
	BRICK SIDEWALK
	PERVIOUS CONCRETE SIDEWALK
	PROPOSED TRASH CANS
	REMOVE EX. PAVEMENT
	EX. TREES TO BE PRESERVED
	EX. NPS RESERVATION (APPROX. FROM LOTO 1041)
	PROP. DC RIGHT-OF-WAY
	NPS RESERVATION BOUNDARY

NOTE:
REFER TO LANDSCAPE PLAN FOR CONCRETE PAVING PATTERN INSIDE ELLIPSE AREA.

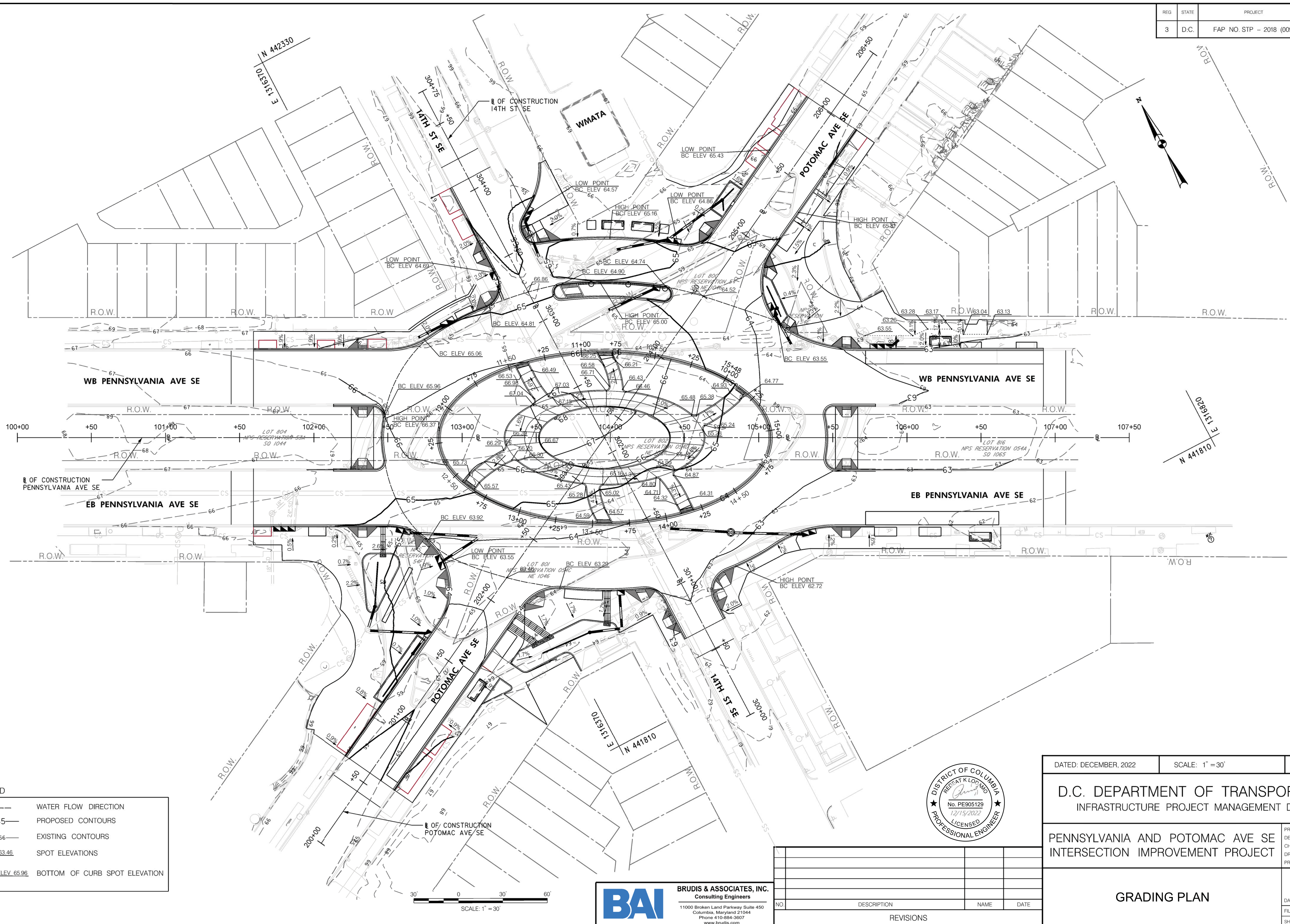


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NO.	DESCRIPTION	NAME	DATE

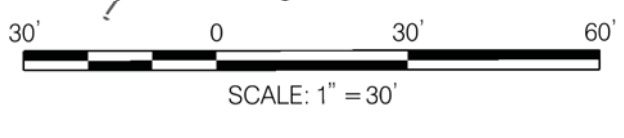
DATED: DECEMBER, 2022	SCALE: 1" = 30'	HD-01
D.C. DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT DIVISION		
PENNSYLVANIA AND POTOMAC AVE SE INTERSECTION IMPROVEMENT PROJECT		PROJECT ENG. _____ RK DESIGNED BY _____ RK/RKL CHECKED BY _____ RKL DRAWN BY _____ RKL PROJECT MGR. _____ RKL
PAVEMENT PLAN		DIVISION CHIEF _____
DATE _____		FILE _____
SHEET 11 OF 167		

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.	FAP NO. STP - 2018 (009)	12	167



LEGEND

	WATER FLOW DIRECTION
	PROPOSED CONTOURS
	EXISTING CONTOURS
	SPOT ELEVATIONS
	BOTTOM OF CURB SPOT ELEVATION



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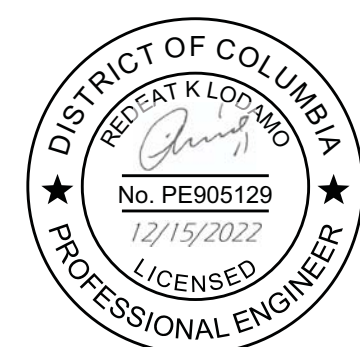
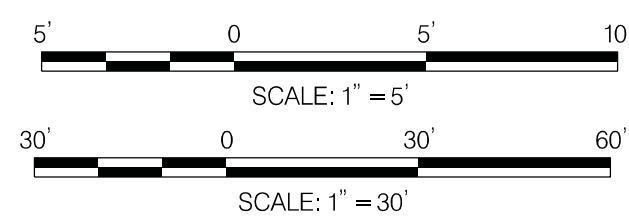
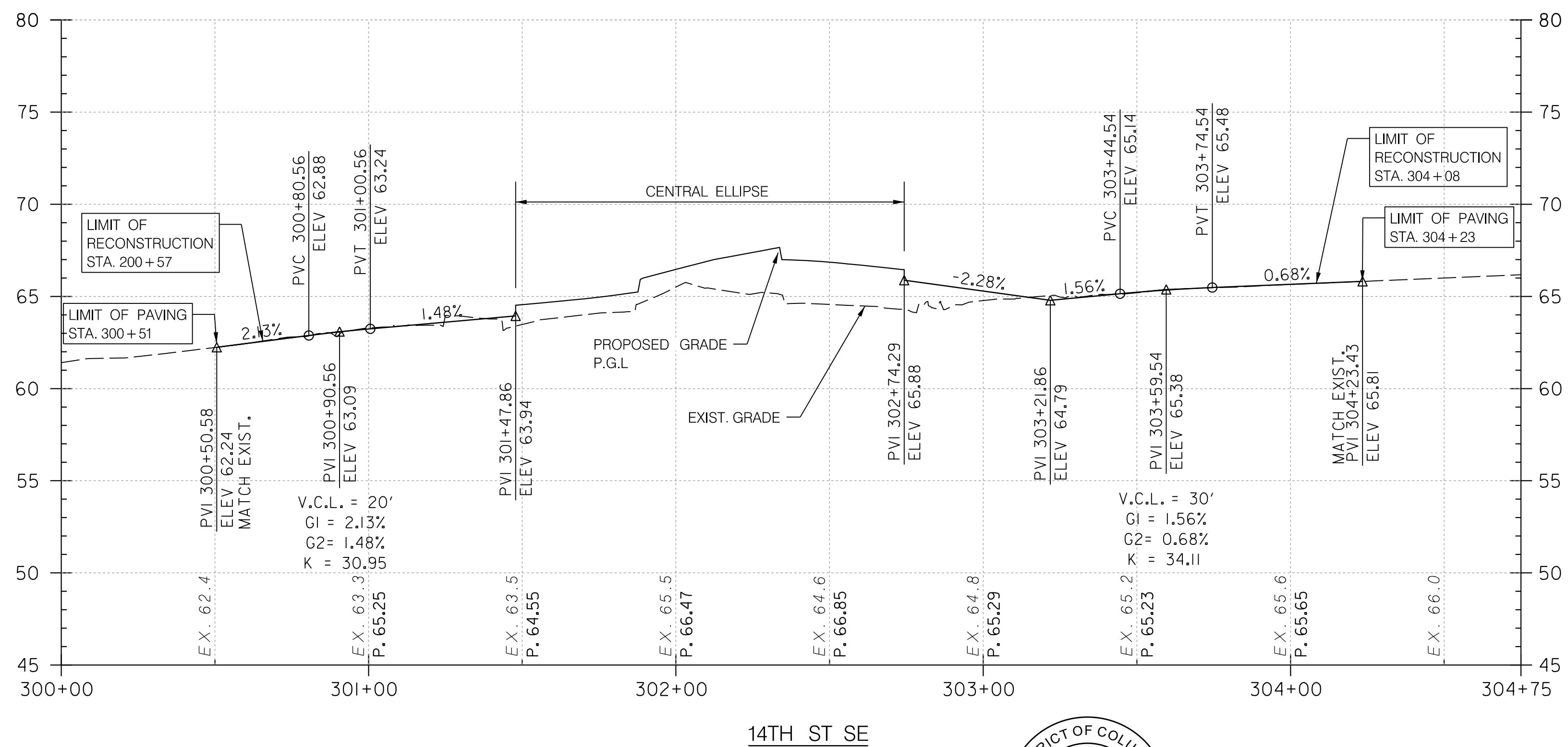
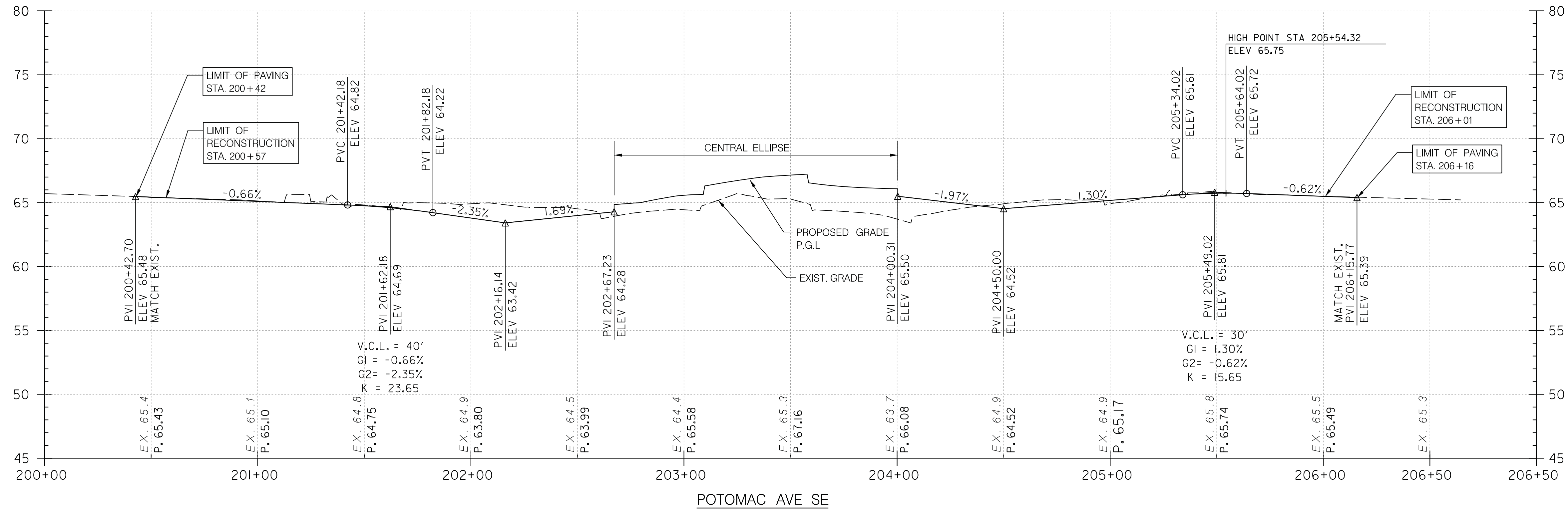


NO.	DESCRIPTION	NAME	DATE

DATED: DECEMBER, 2022	SCALE: 1" = 30'	GR-01
D.C. DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT DIVISION		
PENNSYLVANIA AND POTOMAC AVE SE INTERSECTION IMPROVEMENT PROJECT		PROJECT ENG. <u> RK </u> DESIGNED BY <u> RK/RKL </u> CHECKED BY <u> RKL </u> DRAWN BY <u> RK </u> PROJECT MGR. <u> RKL </u>
GRADING PLAN		DIVISION CHIEF
		DATE <u> </u>
		FILE <u> </u>
		SHEET 12 OF 167

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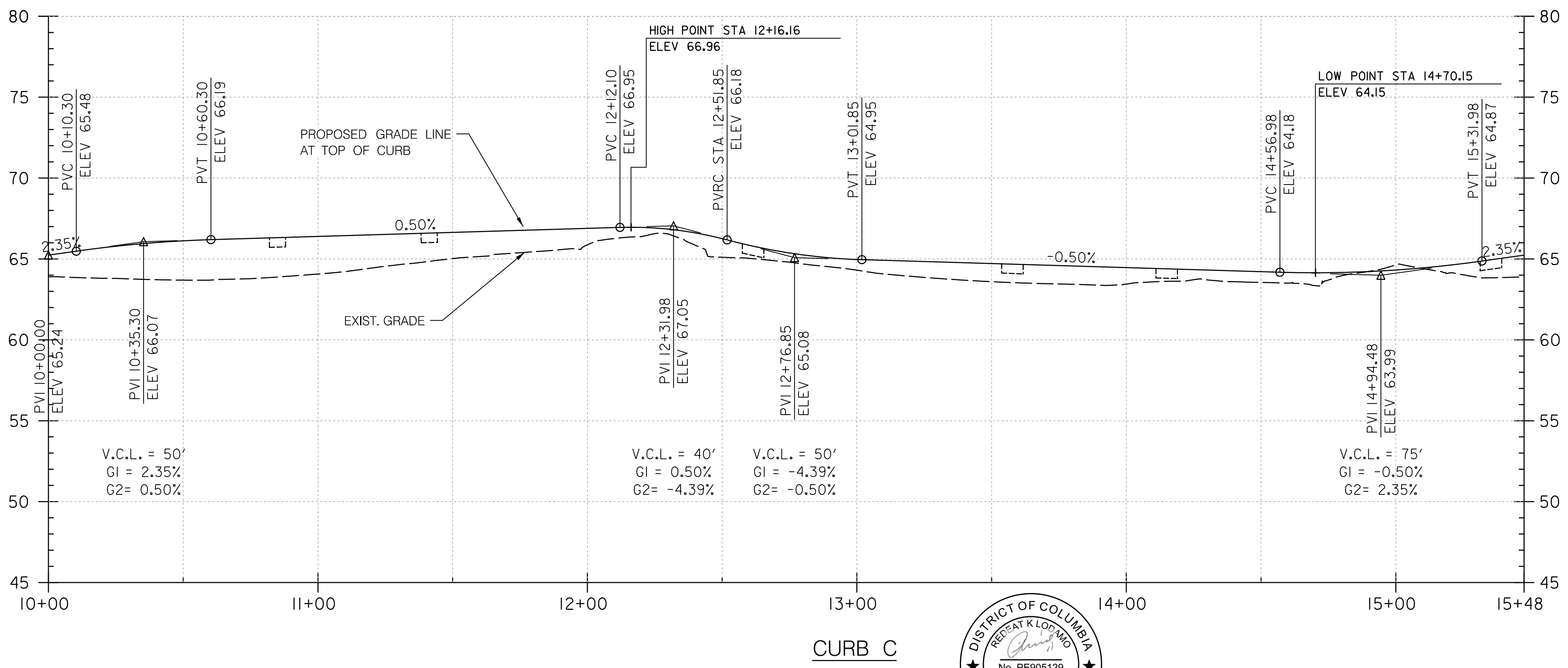
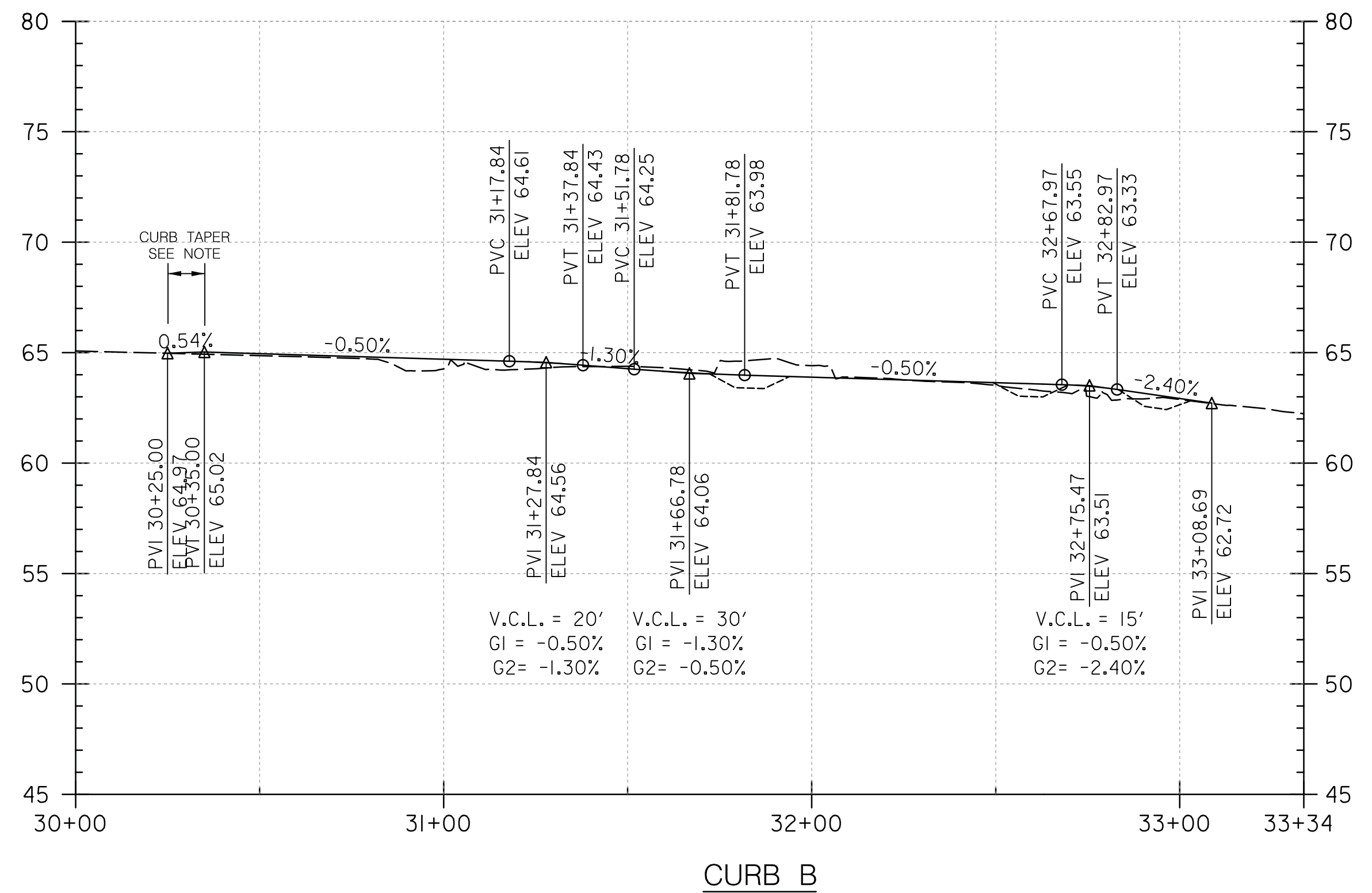
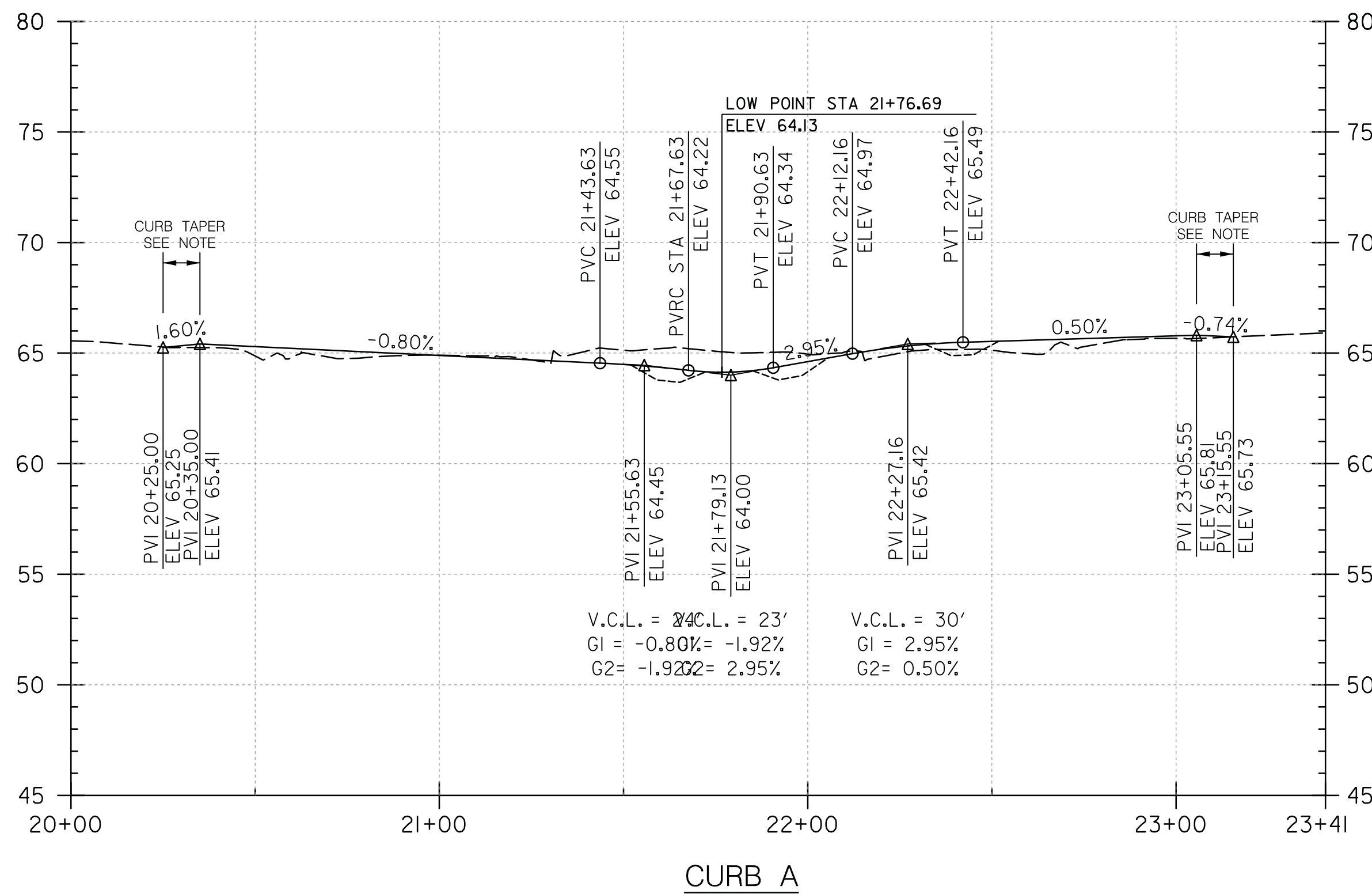
REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.	FAP NO. STP - 2018 (009)	13	167



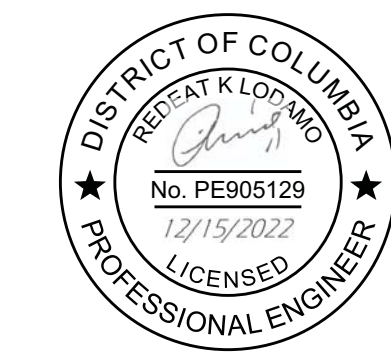
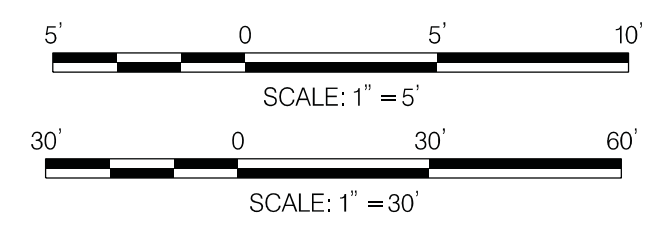
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Consulting Engineers
11000 Broken Land Parkway Suite 450
Columbia, Maryland 21044
Phone 410-884-3607
www.brudis.com

NO.	DESCRIPTION	NAME	DATE

DATED: DECEMBER, 2022	SCALE: AS SHOWN	HP-01
D.C. DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT DIVISION		
PENNSYLVANIA AND POTOMAC AVE SE INTERSECTION IMPROVEMENT PROJECT		
ROADWAY PROFILES		
PROJECT ENG. _____	DESIGNED BY _____	CHECKED BY _____
DRAWN BY _____		
PROJECT MGR. _____		
DIVISION CHIEF		
DATE _____	FILE _____	
SHEET 13 OF 167		



NOTE:
TAPER THE CURB HEIGHT FROM 7 INCHES TO EXISTING CURB HEIGHT AT THE END SECTION OF THE CURB. MINIMUM LENGTH OF THE TRANSITION CURB SECTION SHALL BE 10'.

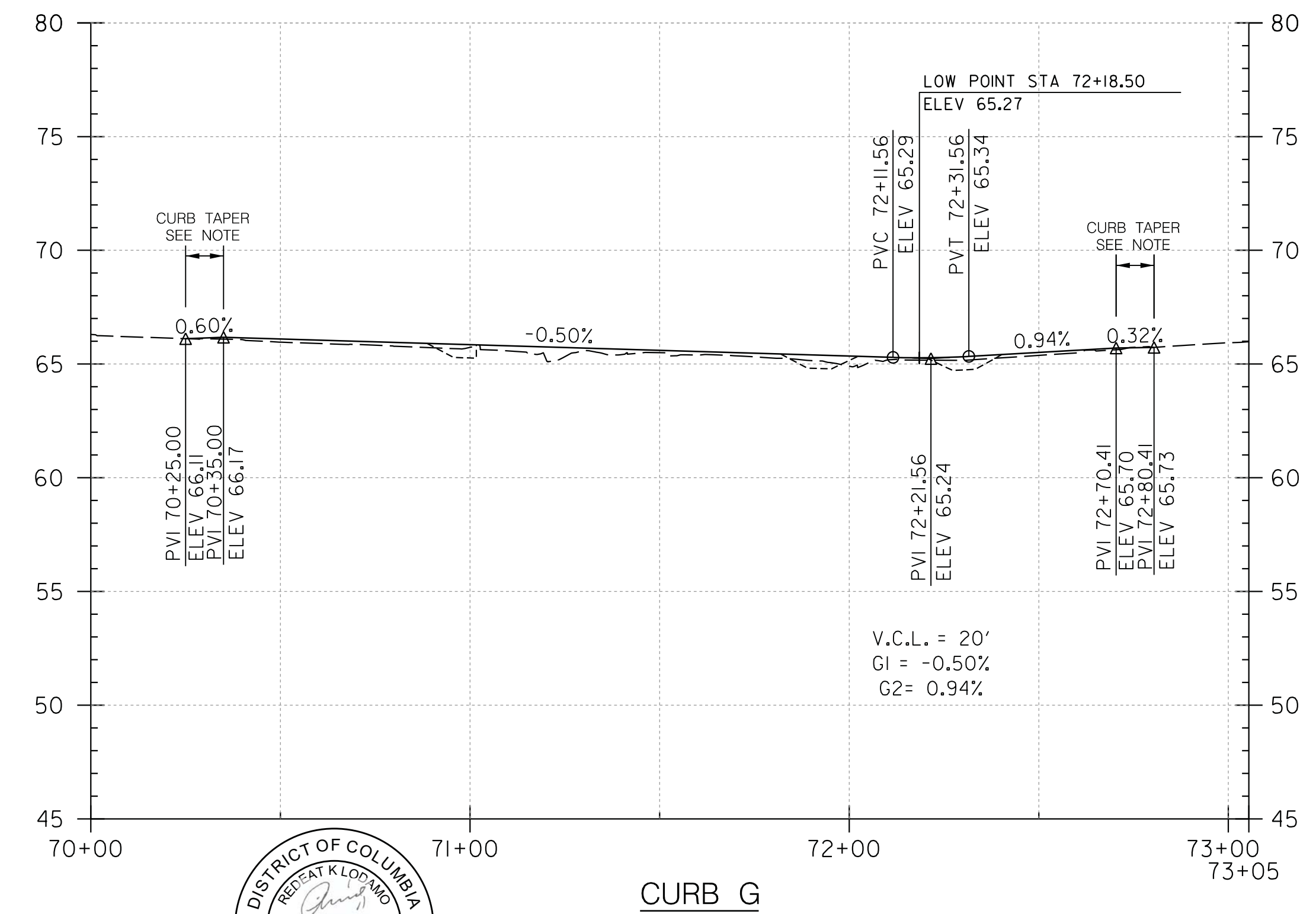
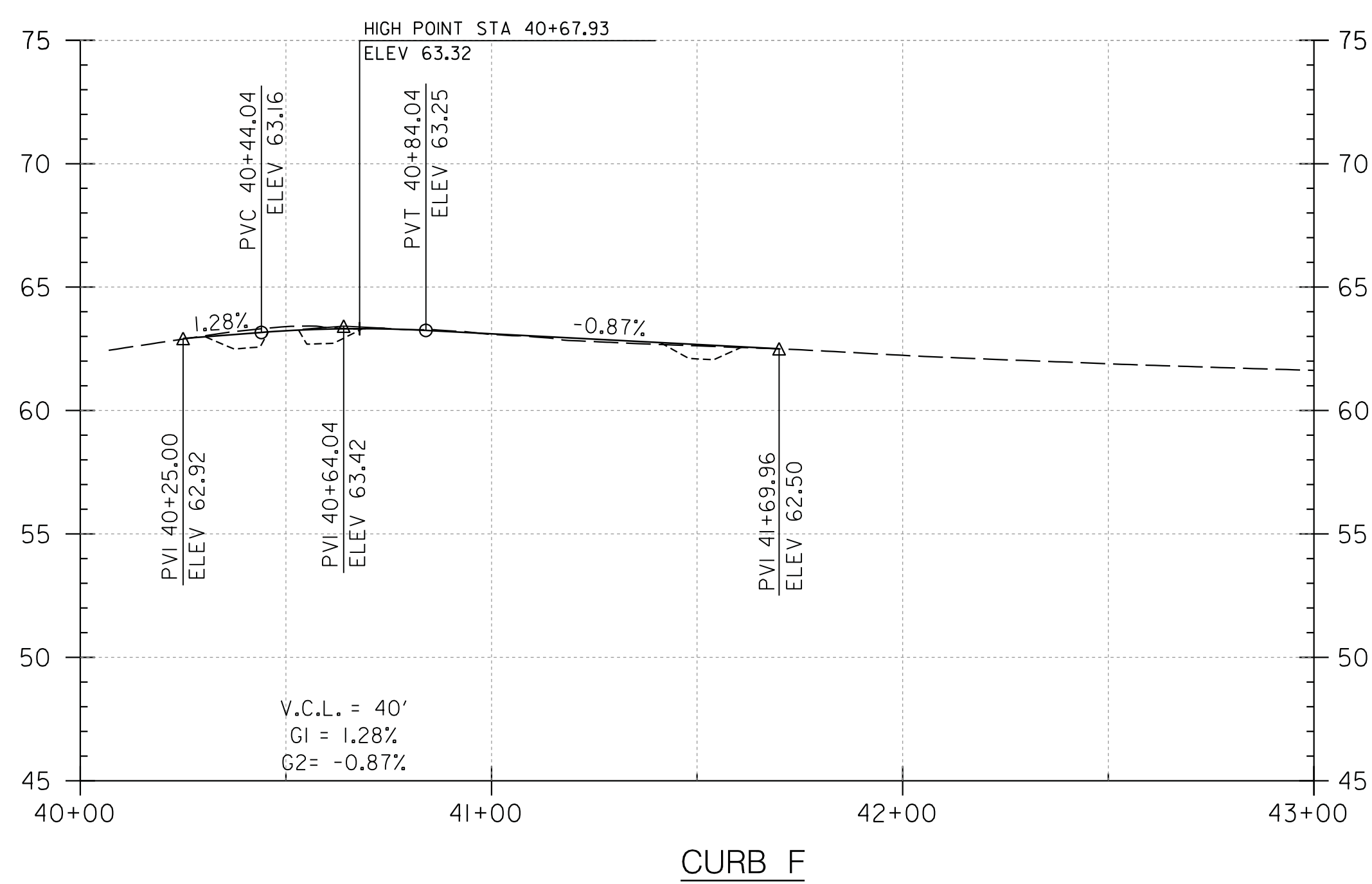
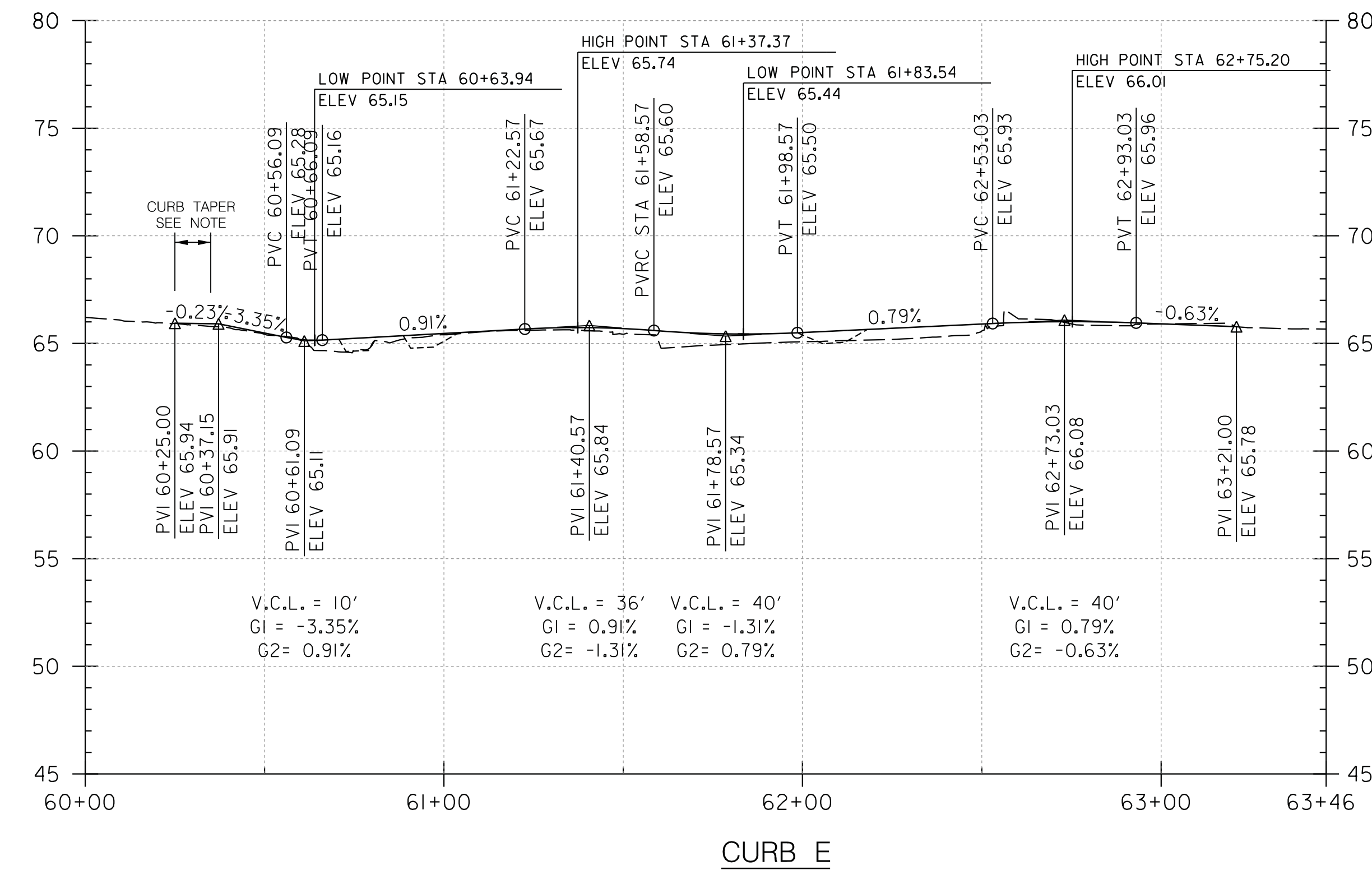
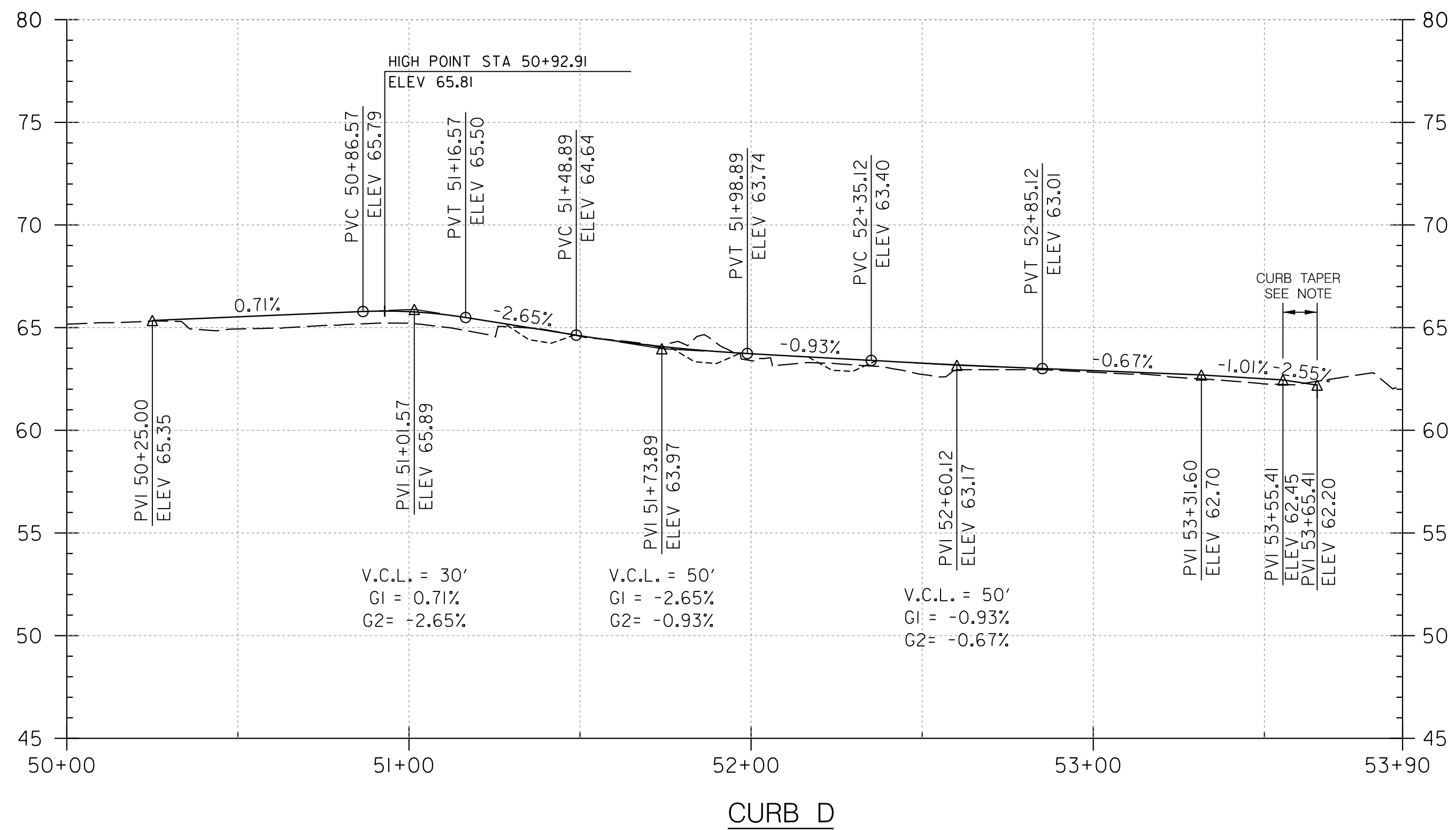


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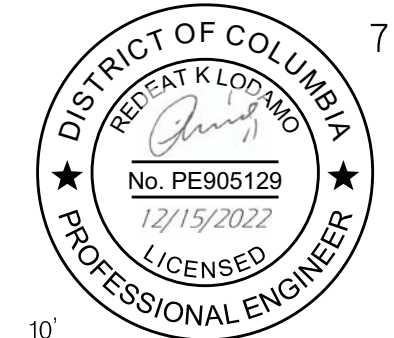
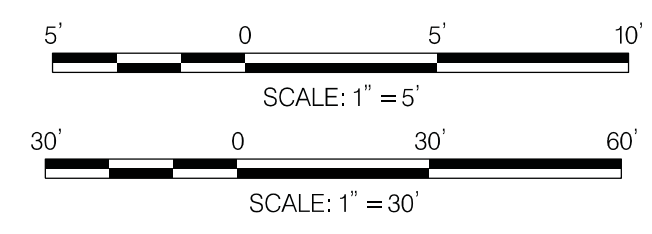
NO.	DESCRIPTION	NAME	DATE

DATED: DECEMBER, 2022	SCALE: AS SHOWN	HP-02
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PENNSYLVANIA AND POTOMAC AVE SE INTERSECTION IMPROVEMENT PROJECT		
TOP OF CURB PROFILES		
PROJECT ENG. _____	DESIGNED BY _____	CHECKED BY _____
DRAWN BY _____		
PROJECT MGR. _____		
DIVISION CHIEF		
DATE _____	FILE _____	SHEET 14 OF 167

P:\17-005_DDOT_AE_Schedule\1_Pennsylvania Ave. Potomac Ave Improvements\CADD\Working\pHP-V002_Penn Ave & Potomac Ave.dgn 1/20/2022



NOTE:
TAPER THE CURB HEIGHT FROM 7 INCHES TO EXISTING CURB HEIGHT AT THE END SECTION OF THE CURB. MINIMUM LENGTH OF THE TRANSITION CURB SECTION SHALL BE 10'.

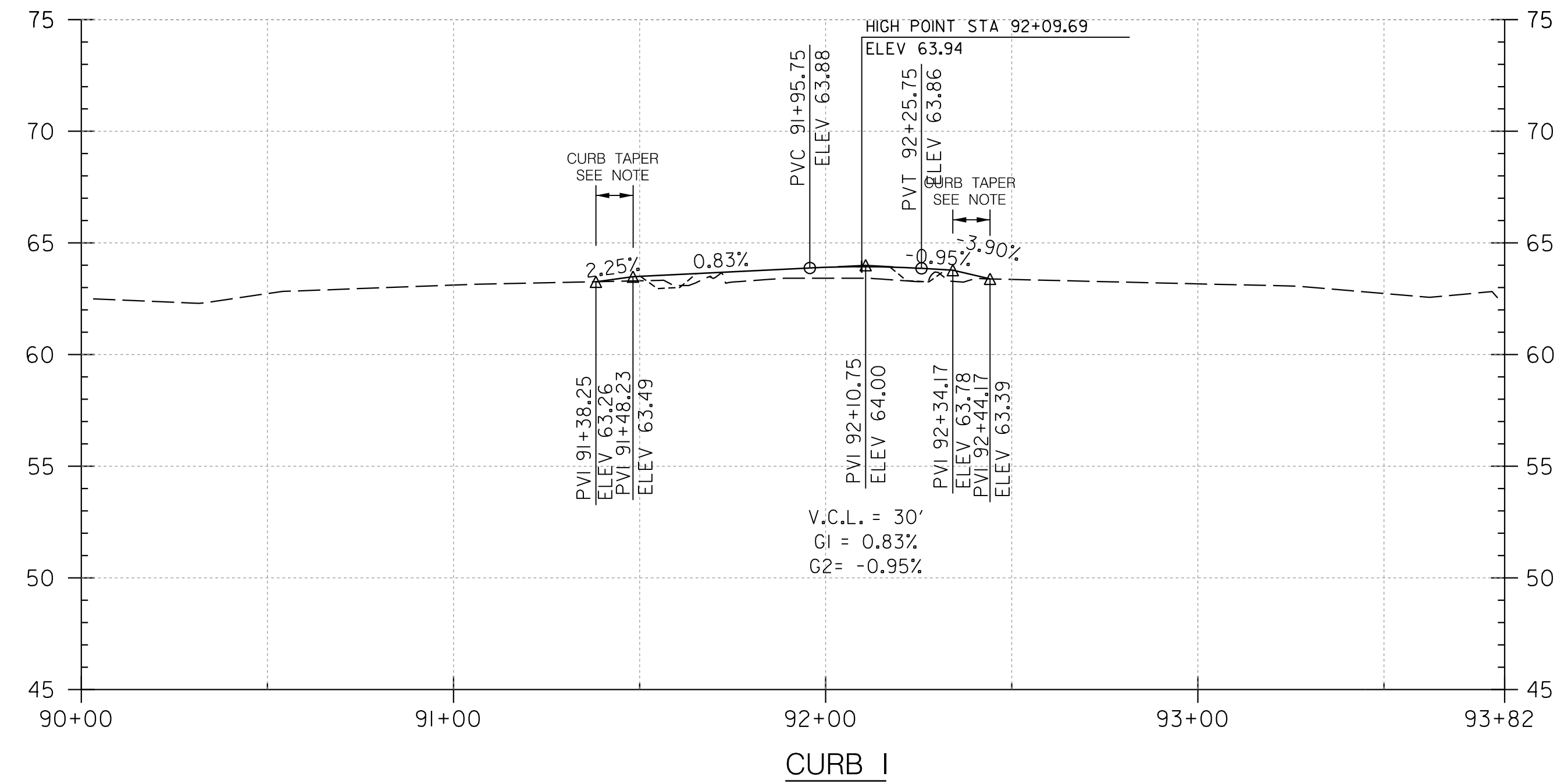
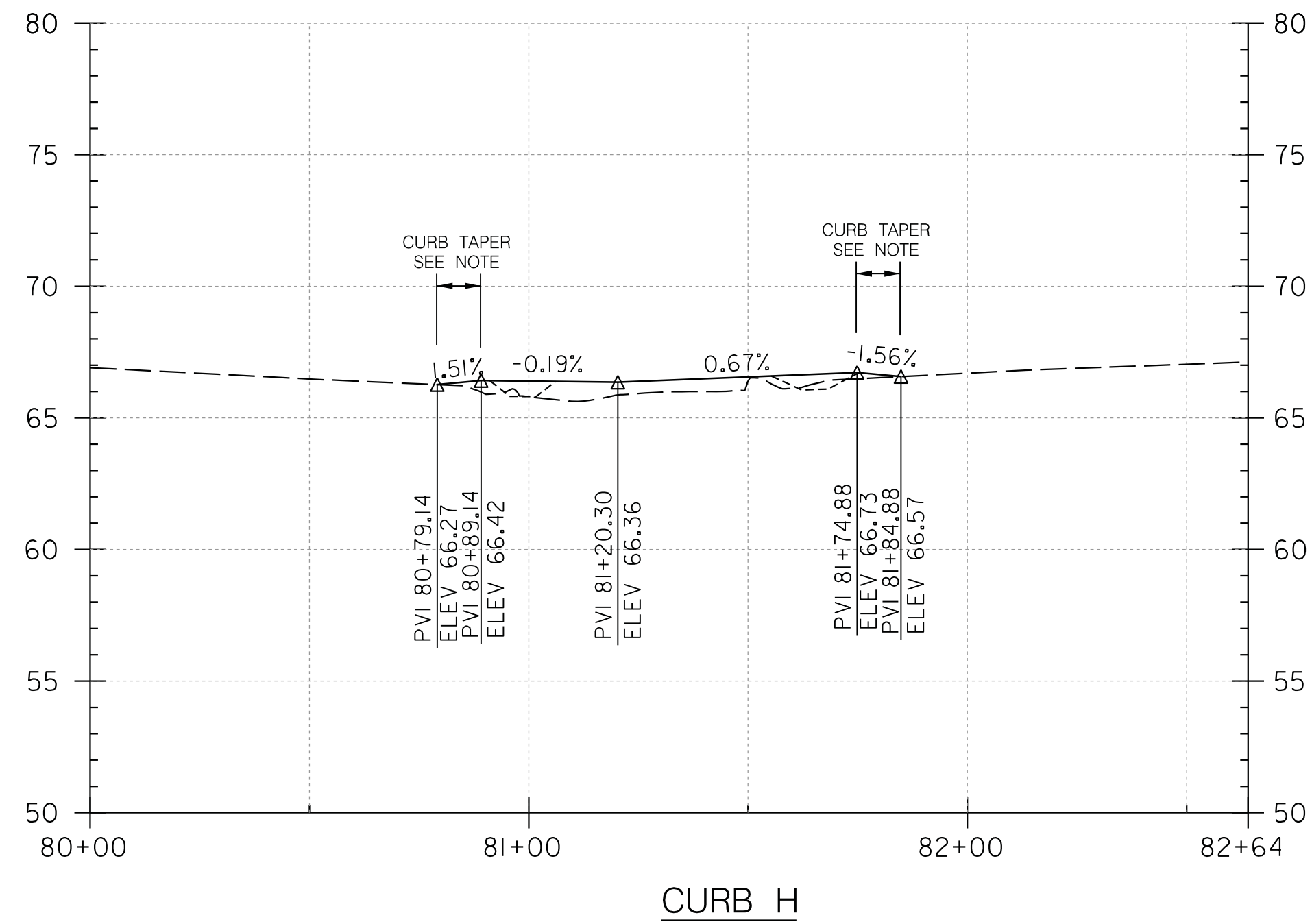


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NO.	DESCRIPTION	NAME	DATE

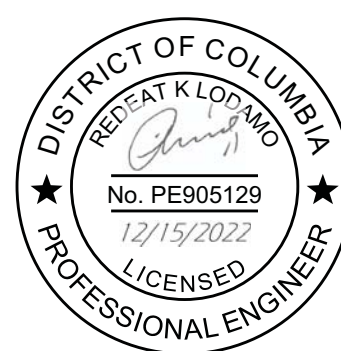
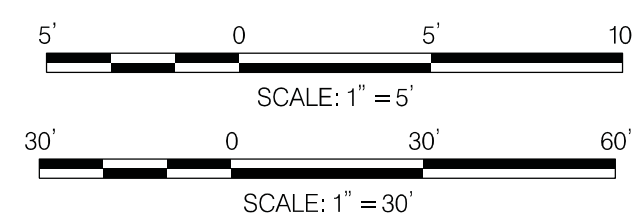
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D.C. DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT DIVISION		
PENNSYLVANIA AND POTOMAC AVE SE INTERSECTION IMPROVEMENT PROJECT		
TOP OF CURB PROFILES		
PROJECT ENG. <u> </u> BK	DESIGNED BY <u> </u> BK /RKL	CHECKED BY <u> </u> BK
DRAWN BY <u> </u> BK		
PROJECT MGR. <u> </u> RKL		
DIVISION CHIEF		
DATE <u> </u>	FILE <u> </u>	SHEET 15 OF 167

P:\17-005-DDOT-AE-Schedule\1_Pennsylvania Ave. Potomac Ave Improvements\Drawings\CADD\Working\PHP-V003_Penn Ave & Potomac Ave.dgn 11/30/2022



P:\17-005_DDOT_AE_Schedule\1_Pennsylvania Ave, Potomac Ave Improvements\Drawings\CADD\Working\PH-V004_Penn Ave & Potomac Ave.dgn 1/20/2022

NOTE:
TAPER THE CURB HEIGHT FROM 7 INCHES TO EXISTING CURB HEIGHT AT THE END SECTION OF THE CURB. MINIMUM LENGTH OF THE TRANSITION CURB SECTION SHALL BE 10'.

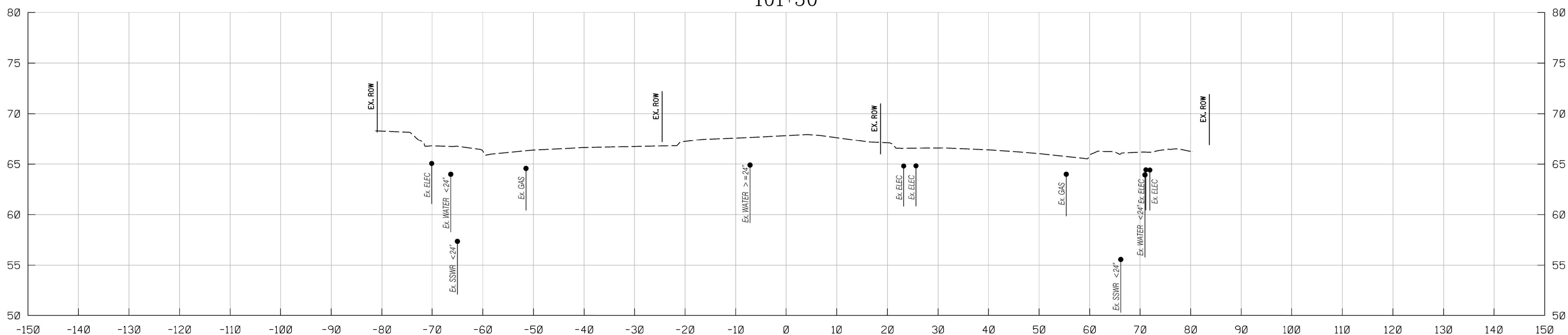
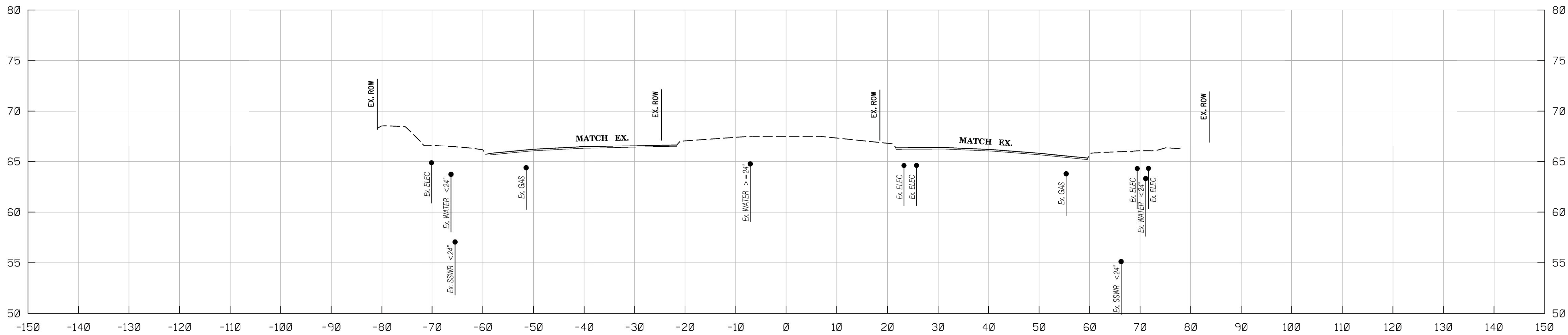


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Columbia, Maryland 21044
Phone 410-884-3607
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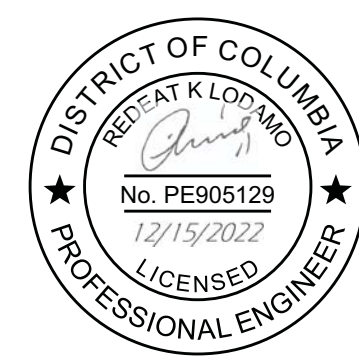
NO.	DESCRIPTION	NAME	DATE

DATED: DECEMBER, 2022	SCALE: AS SHOWN	HP-04
D.C. DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT DIVISION		
PENNSYLVANIA AND POTOMAC AVE SE INTERSECTION IMPROVEMENT PROJECT		PROJECT ENG. <u> BK </u> DESIGNED BY <u> BK/RKL </u> CHECKED BY <u> RKL </u> DRAWN BY <u> BK </u> PROJECT MGR. <u> RKL </u>
TOP OF CURB PROFILES		DIVISION CHIEF DATE <u> </u> FILE <u> </u>
		SHEET 16 OF 167

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.	FAP NO. STP - 2018 (009)	17	167



NOTE:
 1. THE VERTICAL LOCATIONS (DEPTH) OF UNDERGROUND WATER LINE, UNDERGROUND GAS AND ELECTRIC LINES ARE FOR INFORMATION PURPOSES ONLY. REFER TO THE UNDERGROUND UTILITY TEST PIT REPORTS FOR THE DEPTH OF EXISTING UTILITIES.
 2. THE EXISTING SURFACE ON 1401 PENNSYLVANIA AVE SE NEW DEVELOPMENT PROJECT IS CREATED FROM THE DESIGN DRAWINGS PROVIDED BY THE CONTRACTOR. THE ELEVATIONS SHOULD BE FIELD VERIFIED BEFORE THE CONSTRUCTION.



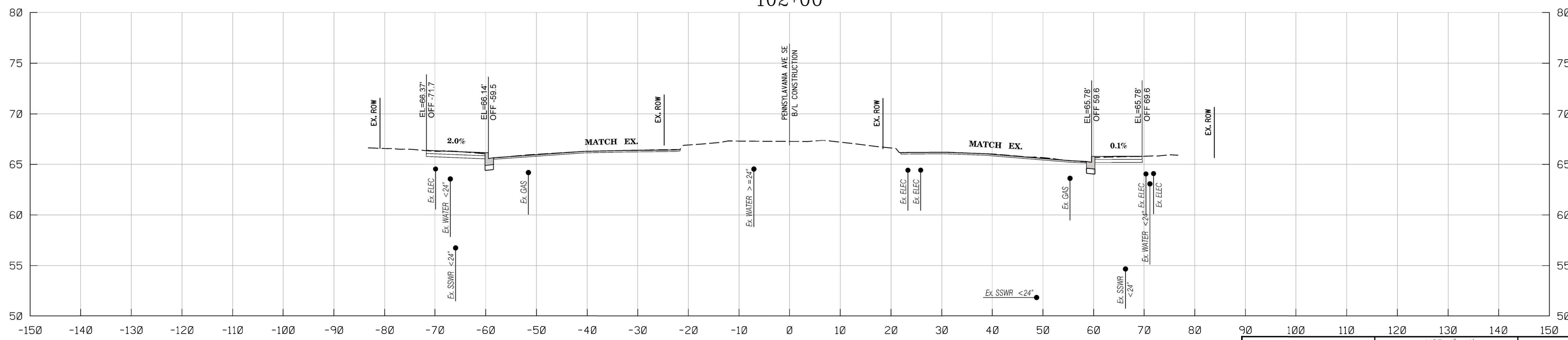
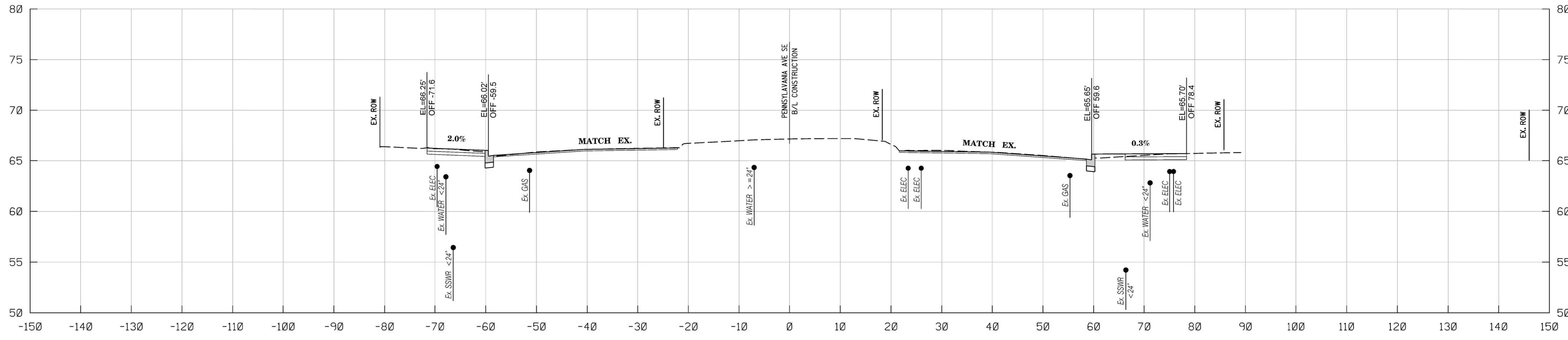
BAI BRUDIS & ASSOCIATES, INC.
 Consulting Engineers
 11000 Broken Land Parkway, Suite 450
 Columbia, Maryland 21044
 Phone 410-894-3607
 www.brudis.com

NO.	DESCRIPTION	NAME	DATE

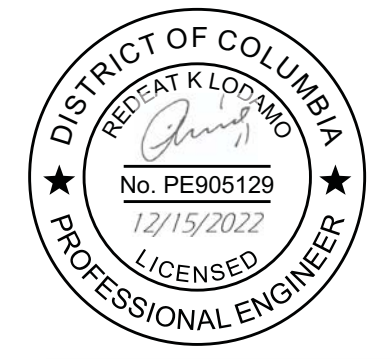
DATED: DECEMBER 22, 2020	SCALE: HOR: 1" = 10' VERT: 1" = 5'	HC-01
D.C. DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT DIVISION		
PENNSYLVANIA AND POTOMAC AVE SE INTERSECTION IMPROVEMENT PROJECT		
PROJECT ENG. <u> BK </u> DESIGNED BY <u> BK/RKL </u> CHECKED BY <u> BK </u> DRAWN BY <u> BK </u> PROJECT MGR. <u> RKL </u>		DIVISION CHIEF
ROADWAY CROSS SECTIONS Station 101+25 To Station 101+50		DATE <u> </u> FILE <u> </u> SHEET 17 OF 167

P:\17-005.DDOT AE Schedule\1_Pennsylvania Ave. Potomac Ave Improvements\Drawings\CADD\Working\pdc-X000_Penn Ave & Potomac Ave.dgn
Friday, December 16, 2022 AT 10:49 AM

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.	FAP NO. STP - 2018 (009)	18	167



NOTE:
 1. THE VERTICAL LOCATIONS (DEPTH) OF UNDERGROUND WATER LINE, UNDERGROUND GAS AND ELECTRIC LINES ARE FOR INFORMATION PURPOSES ONLY. REFER TO THE UNDERGROUND UTILITY TEST PIT REPORTS FOR THE DEPTH OF EXISTING UTILITIES.
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BAI BRUDIS & ASSOCIATES, INC.
 Consulting Engineers
 11000 Broken Land Parkway, Suite 450
 Columbia, Maryland 21044
 Phone 410-894-3607
 www.brudis.com

NO.	DESCRIPTION	NAME	DATE

DATED: DECEMBER 22, 2020 SCALE: HOR: 1" = 10' VERT: 1" = 5' **HC-02**

D.C. DEPARTMENT OF TRANSPORTATION
 INFRASTRUCTURE PROJECT MANAGEMENT DIVISION

PENNSYLVANIA AND POTOMAC AVE SE
 INTERSECTION IMPROVEMENT PROJECT

PROJECT ENG. _____
 DESIGNED BY _____
 CHECKED BY _____
 DRAWN BY _____
 PROJECT MGR. _____

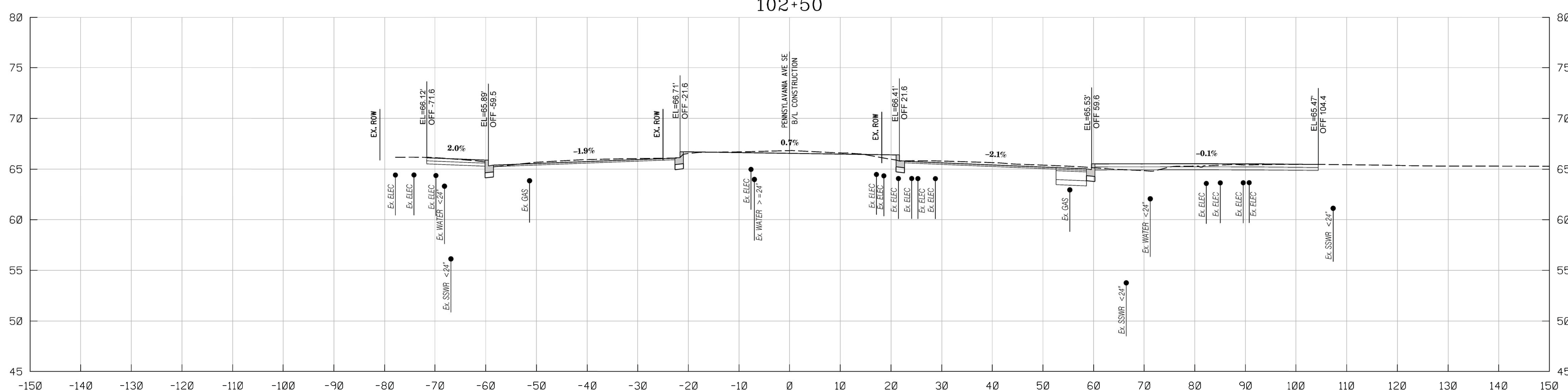
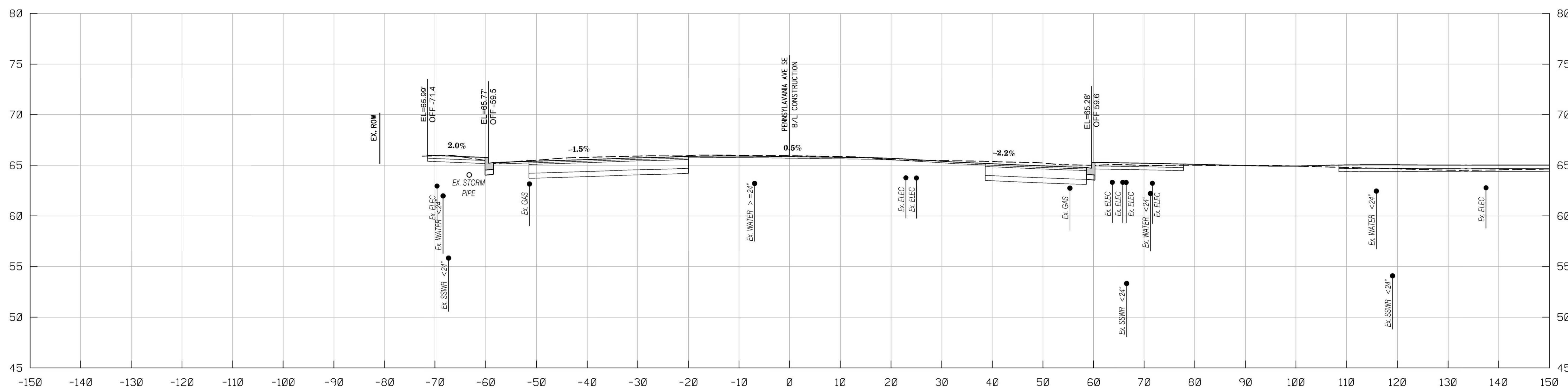
DIVISION CHIEF

ROADWAY CROSS SECTIONS
 Station 101+75 To Station 102+00

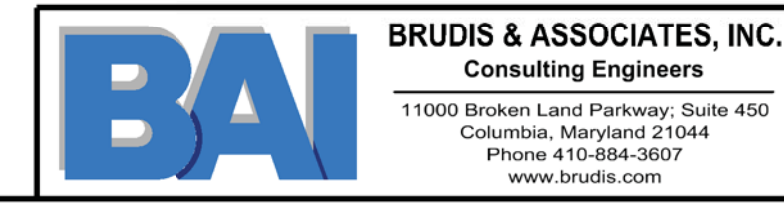
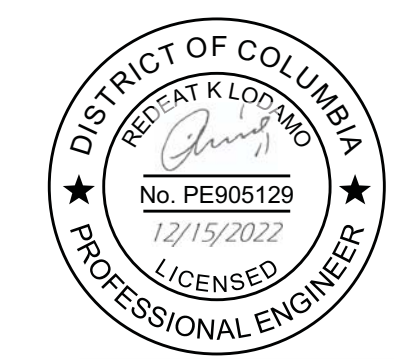
DATE _____
 FILE _____
 SHEET 18 OF 167

P:\17-005.DDOT AE Schedule\1_Pennsylvania Ave. Potomac Ave Improvements\Drawings\CADD\Working\pfc-X000_Penn Ave & Potomac Ave.dgn
 Friday, December 16, 2022 AT 10:49 AM

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.	FAP NO. STP - 2018 (009)	19	167



NOTE:
 1. THE VERTICAL LOCATIONS (DEPTH) OF UNDERGROUND WATER LINE, UNDERGROUND GAS AND ELECTRIC LINES ARE FOR INFORMATION PURPOSES ONLY. REFER TO THE UNDERGROUND UTILITY TEST PIT REPORTS FOR THE DEPTH OF EXISTING UTILITIES.
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NO.	DESCRIPTION	NAME	DATE

DATED: DECEMBER 22, 2020 SCALE: HOR: 1" = 10' VERT: 1" = 5' **HC-03**

D.C. DEPARTMENT OF TRANSPORTATION
 INFRASTRUCTURE PROJECT MANAGEMENT DIVISION

PENNSYLVANIA AND POTOMAC AVE SE
 INTERSECTION IMPROVEMENT PROJECT

PROJECT ENG. BK
 DESIGNED BY BK/RKL
 CHECKED BY RKL
 DRAWN BY BK
 PROJECT MGR. RKL

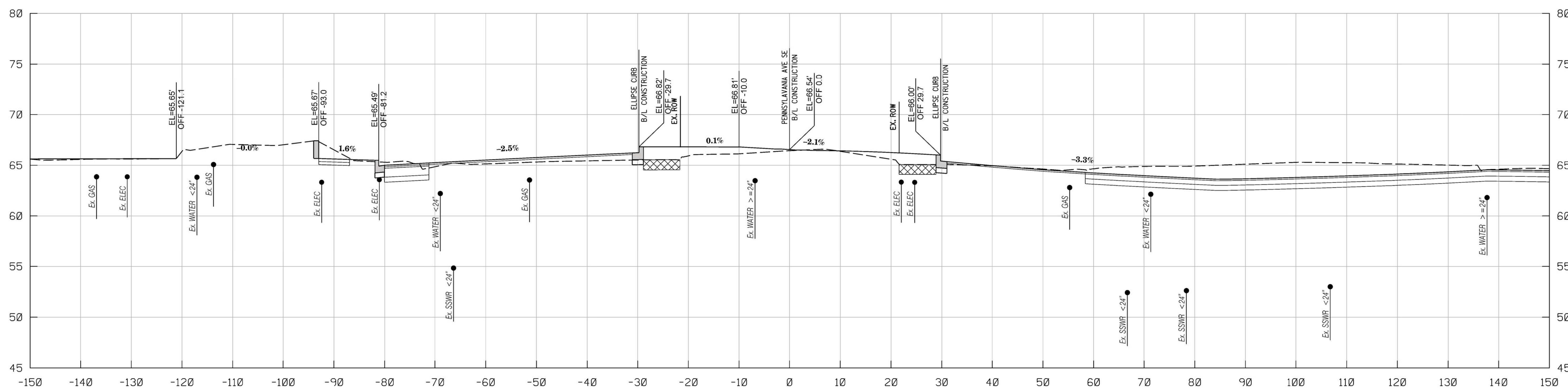
DIVISION CHIEF

ROADWAY CROSS SECTIONS
 Station 102+25 To Station 102+50

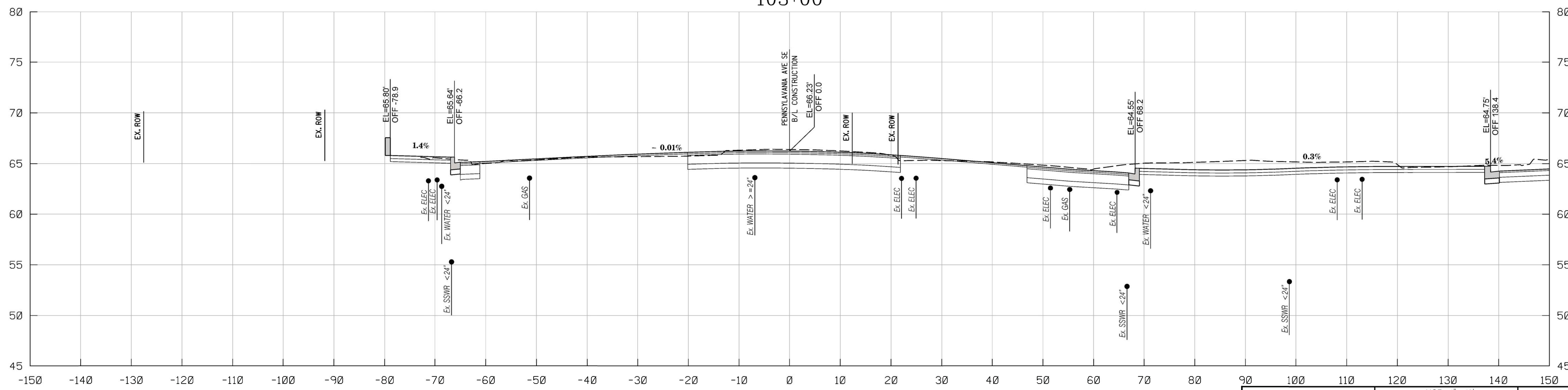
DATE
 FILE
 SHEET 19 OF 167

P:\17-005.DDOT AE Schedule\1_Pennsylvania Ave. Potomac Ave Improvements\CADD\Working\pdc-X000_Penn Ave & Potomac Ave.dgn
 Friday, December 16, 2022 AT 10:50 AM

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.	FAP NO. STP - 2018 (009)	20	167

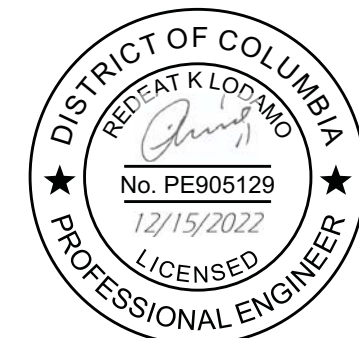


103+00



102+75

NOTE:
 1. THE VERTICAL LOCATIONS (DEPTH) OF UNDERGROUND WATER LINE, UNDERGROUND GAS AND ELECTRIC LINES ARE FOR INFORMATION PURPOSES ONLY. REFER TO THE UNDERGROUND UTILITY TEST PIT REPORTS FOR THE DEPTH OF EXISTING UTILITIES.
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NO.	DESCRIPTION	NAME	DATE

DATED: DECEMBER 22, 2020 SCALE: HOR: 1" = 10' VERT: 1" = 5' **HC-04**

D.C. DEPARTMENT OF TRANSPORTATION
 INFRASTRUCTURE PROJECT MANAGEMENT DIVISION

PENNSYLVANIA AND POTOMAC AVE SE
 INTERSECTION IMPROVEMENT PROJECT

PROJECT ENG. _____ BK
 DESIGNED BY _____ BK/RKL
 CHECKED BY _____ BKL
 DRAWN BY _____ BK
 PROJECT MGR. _____ RKL

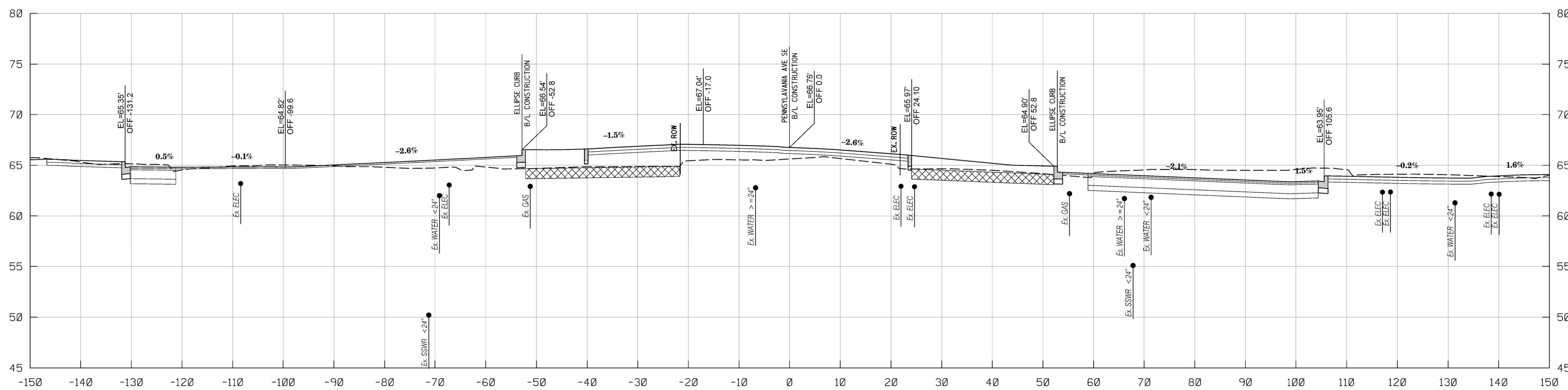
DIVISION CHIEF

ROADWAY CROSS SECTIONS
 Station 102+75 To Station 103+00

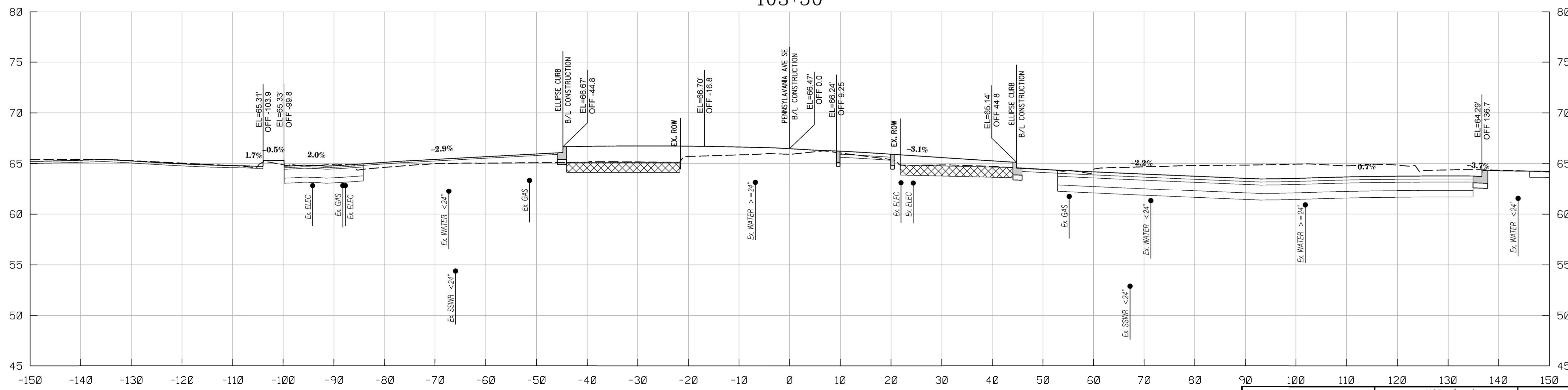
DATE _____
 FILE _____
 SHEET 20 OF 167

P:\17-005.DDOT AE Schedule\1_Pennsylvania Ave. Potomac Ave Improvements\Drawings\CADD\Working\pdc-X000_Penn Ave & Potomac Ave.dgn
 Friday, December 16, 2022 AT 10:51 AM

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.	FAP NO. STP - 2018 (009)	21	167



103+50



103+25

DATED: DECEMBER 22, 2020 SCALE: HOR: 1" = 10' VERT: 1" = 5' **HC-05**

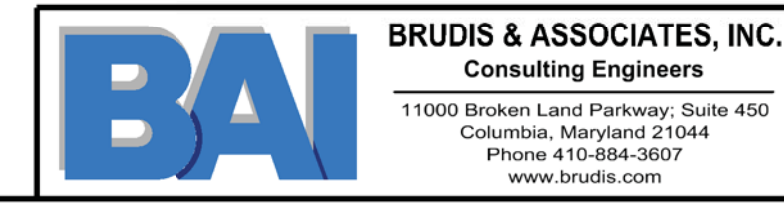
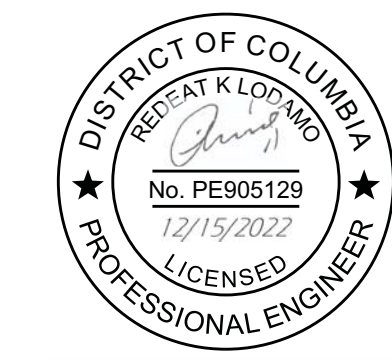
D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT DIVISION

PENNSYLVANIA AND POTOMAC AVE SE
INTERSECTION IMPROVEMENT PROJECT

ROADWAY CROSS SECTIONS
Station 103+25 To Station 103+50

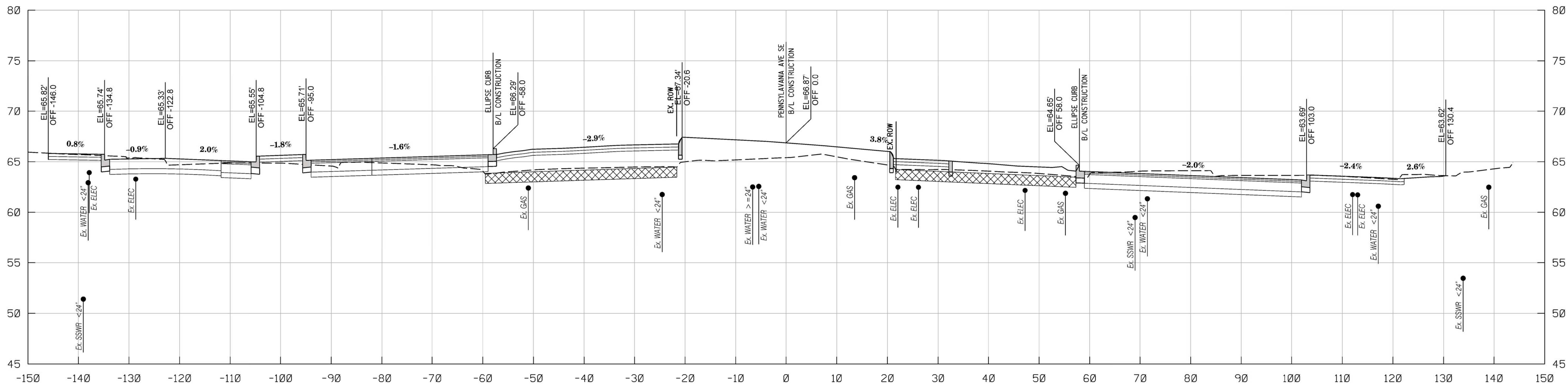
PROJECT ENG. /BK
DESIGNED BY /BK /RL
CHECKED BY /BK
DRAWN BY /BK
PROJECT MGR. /RL
DIVISION CHIEF
DATE
FILE
SHEET 21 OF 167

NOTE:
1. THE VERTICAL LOCATIONS (DEPTH) OF UNDERGROUND WATER LINE, UNDERGROUND GAS AND ELECTRIC LINES ARE FOR INFORMATION PURPOSES ONLY. REFER TO THE UNDERGROUND UTILITY TEST PIT REPORTS FOR THE DEPTH OF EXISTING UTILITIES.
2. THE EXISTING SURFACE ON 1401 PENNSYLVANIA AVE SE NEW DEVELOPMENT PROJECT IS CREATED FROM THE DESIGN DRAWINGS PROVIDED BY THE CONTRACTOR. THE ELEVATIONS SHOULD BE FIELD VERIFIED BEFORE THE CONSTRUCTION.

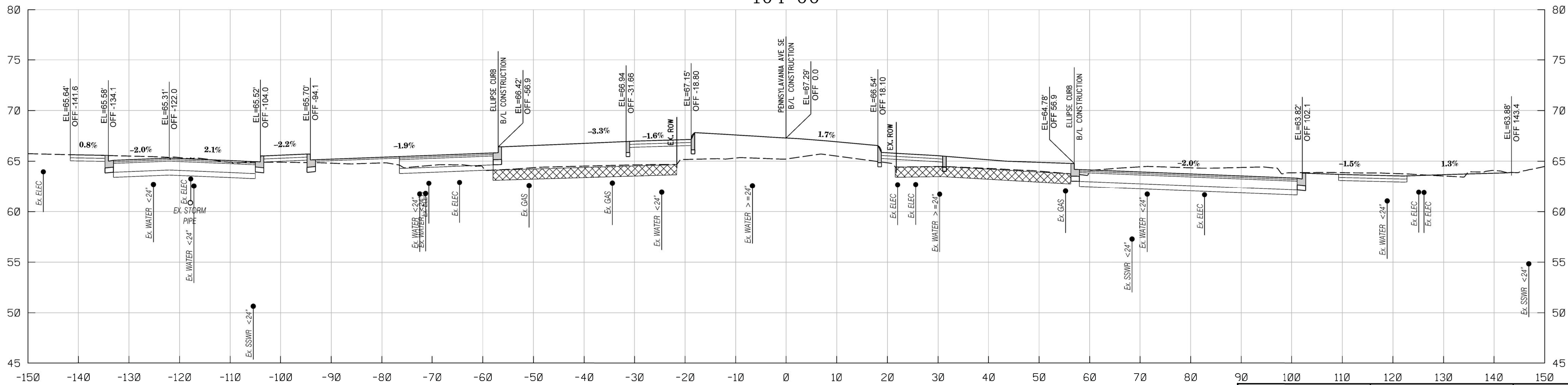


NO.	DESCRIPTION	NAME	DATE

P:\17-005.DDOT AE Schedule\1_Pennsylvania Ave. Potomac Ave Improvements\CADD\Working\pdc-X000_Penn Ave & Potomac Ave.dgn Friday, December 16, 2022 AT 10:53 AM

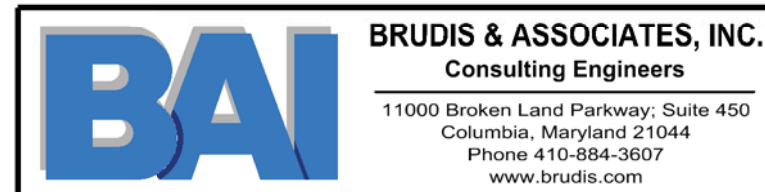
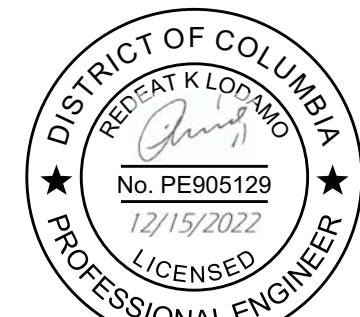


104+00



103+75

NOTE:
 1. THE VERTICAL LOCATIONS (DEPTH) OF UNDERGROUND WATER LINE, UNDERGROUND GAS AND ELECTRIC LINES ARE FOR INFORMATION PURPOSES ONLY. REFER TO THE UNDERGROUND UTILITY TEST PIT REPORTS FOR THE DEPTH OF EXISTING UTILITIES.
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DATED: DECEMBER 22, 2020 SCALE: HOR: 1" = 10' VERT: 1" = 5' **HC-06**

D.C. DEPARTMENT OF TRANSPORTATION
 INFRASTRUCTURE PROJECT MANAGEMENT DIVISION

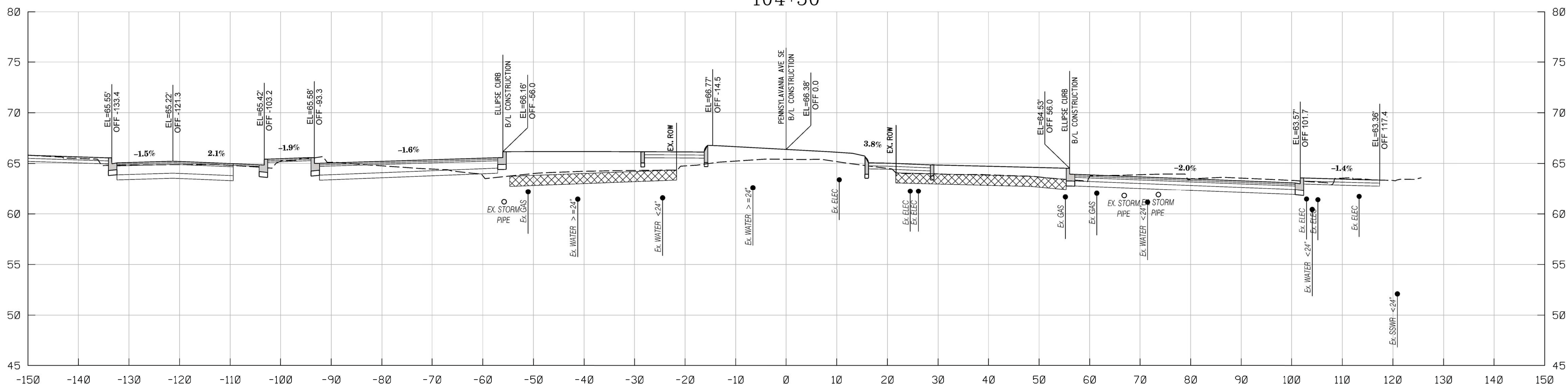
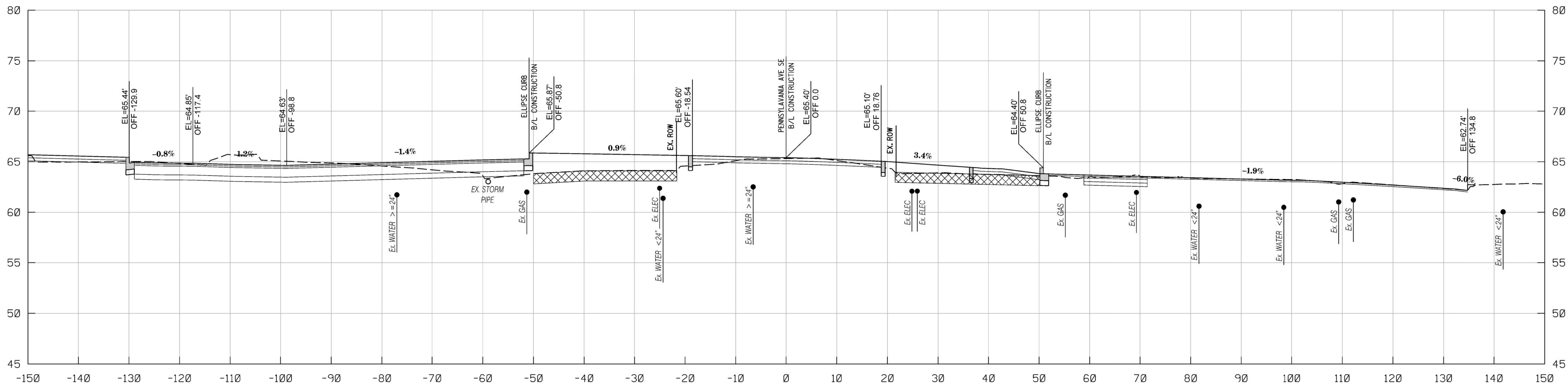
PENNSYLVANIA AND POTOMAC AVE SE
 INTERSECTION IMPROVEMENT PROJECT

ROADWAY CROSS SECTIONS
 Station 103+75 To Station 104+00

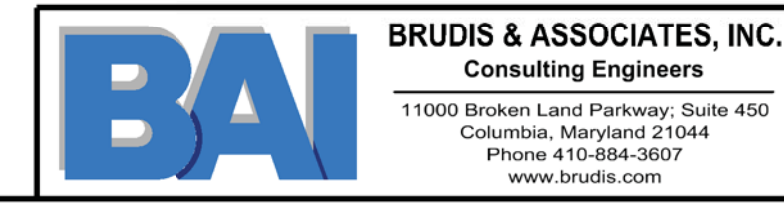
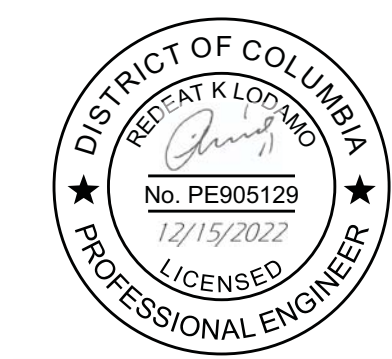
PROJECT ENG. _____
 DESIGNED BY _____
 CHECKED BY _____
 DRAWN BY _____
 PROJECT MGR. _____
 DIVISION CHIEF
 DATE _____
 FILE _____
 SHEET 22 OF 167

NO.	DESCRIPTION	NAME	DATE

P:\17-005.DDOT AE Schedule\1_Pennsylvania Ave. Potomac Ave Improvements\CADD\Working\PHC-X000_Penn Ave & Potomac Ave.dgn
 Friday, December 16, 2022 AT 10:54 AM



NOTE:
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NO.	DESCRIPTION	NAME	DATE

DATED: DECEMBER 22, 2020 SCALE: HOR: 1" = 10' VERT: 1" = 5' **HC-07**

D.C. DEPARTMENT OF TRANSPORTATION
 INFRASTRUCTURE PROJECT MANAGEMENT DIVISION

PENNSYLVANIA AND POTOMAC AVE SE
 INTERSECTION IMPROVEMENT PROJECT

PROJECT ENG. BK
 DESIGNED BY BK/RKL
 CHECKED BY BK
 DRAWN BY BK
 PROJECT MGR. RKL

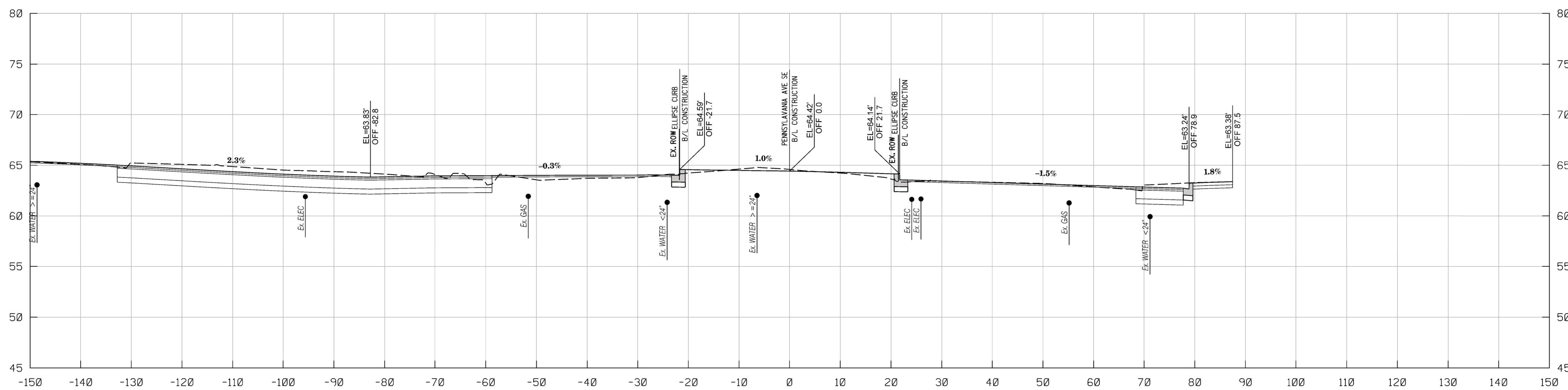
DIVISION CHIEF

ROADWAY CROSS SECTIONS
 Station 104+25 To Station 104+50

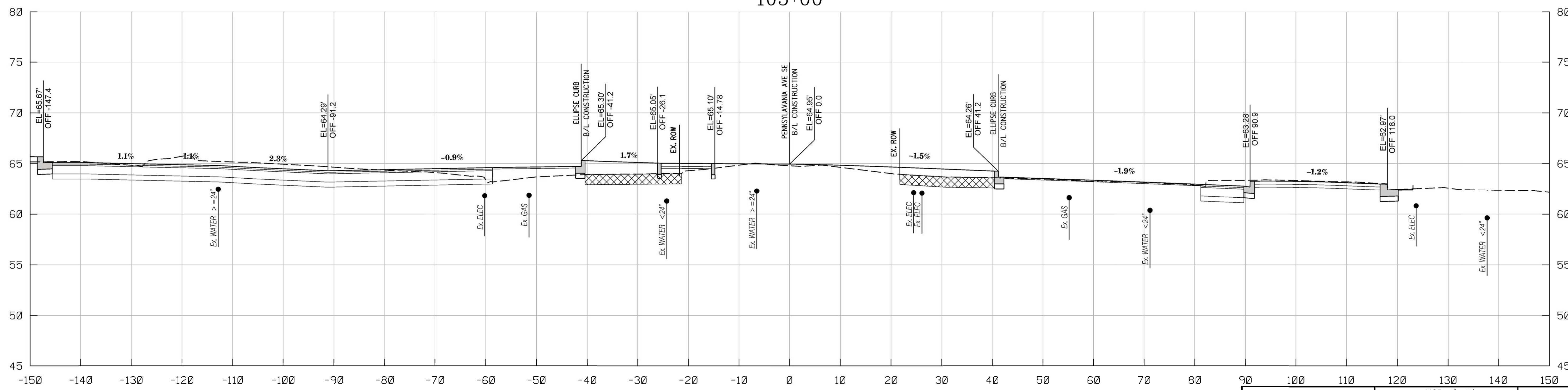
DATE
 FILE
 SHEET 23 OF 167

P:\17-005.DDOT_AE\Schedule\1_Pennsylvania Ave. Potomac Ave Improvements\CADD\Working\pdc-X000_Penn Ave & Potomac Ave.dgn
 Friday, December 16, 2022 AT 10:55 AM

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.	FAP NO. STP - 2018 (009)	24	167

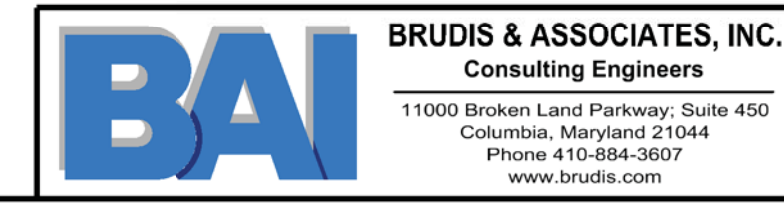
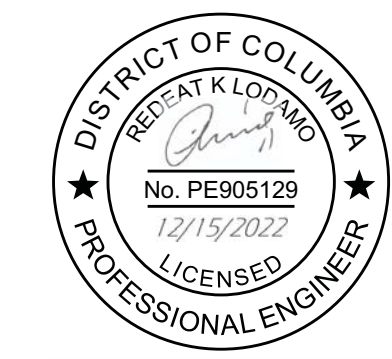


105+00



104+75

NOTE:
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DATED: DECEMBER 22, 2020 SCALE: HOR: 1" = 10' VERT: 1" = 5' **HC-08**

D.C. DEPARTMENT OF TRANSPORTATION
 INFRASTRUCTURE PROJECT MANAGEMENT DIVISION

PENNSYLVANIA AND POTOMAC AVE SE
 INTERSECTION IMPROVEMENT PROJECT

ROADWAY CROSS SECTIONS
 Station 104 + 75 To Station 105 + 00

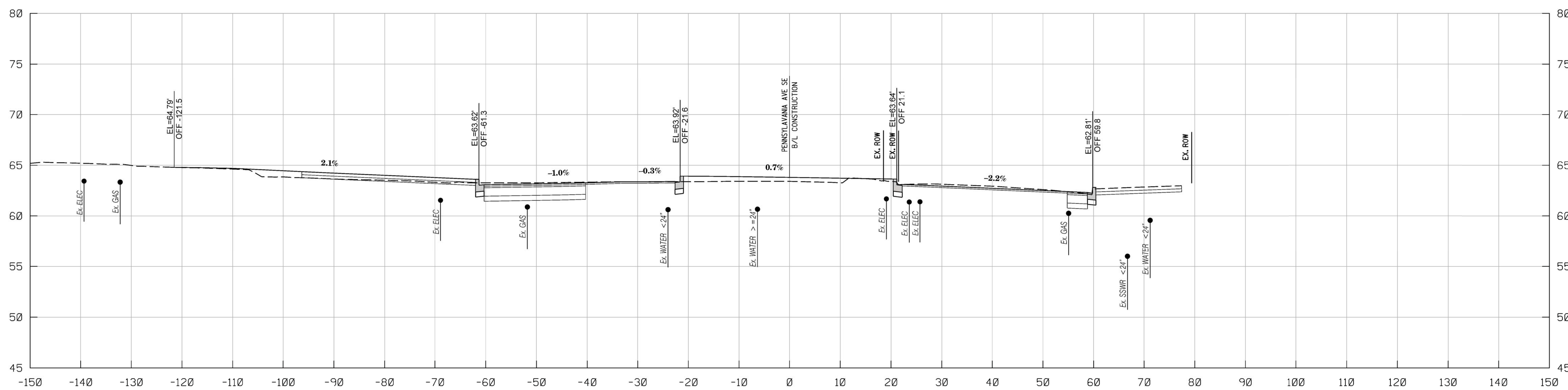
PROJECT ENG. BK
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 CHECKED BY BK
 DRAWN BY BK
 PROJECT MGR. RKL

DIVISION CHIEF
 DATE
 FILE
 SHEET 24 OF 167

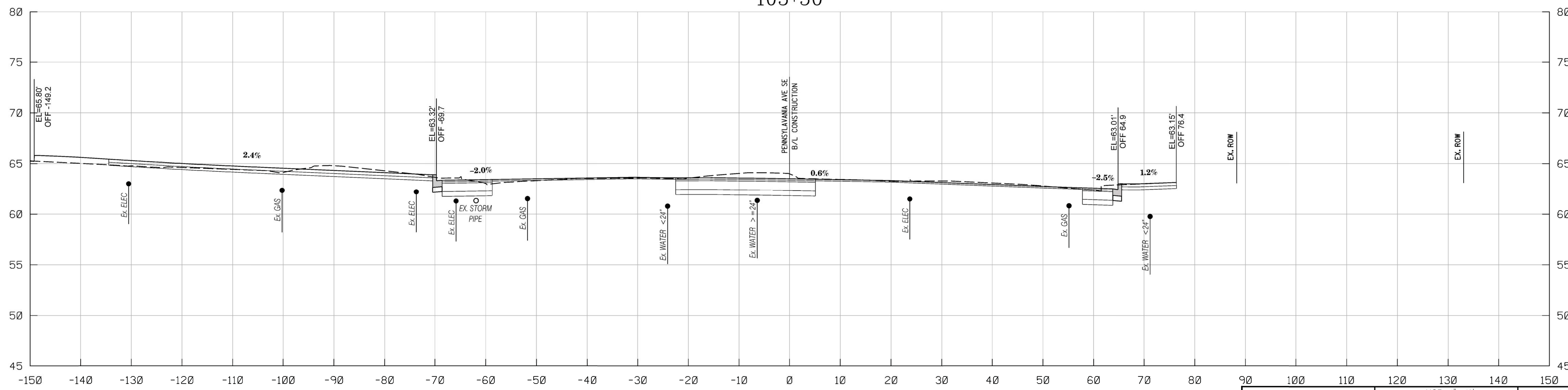
NO.	DESCRIPTION	NAME	DATE

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 Friday, December 16, 2022 AT 10:55 AM

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.	FAP NO. STP - 2018 (009)	25	167



105+50



105+25

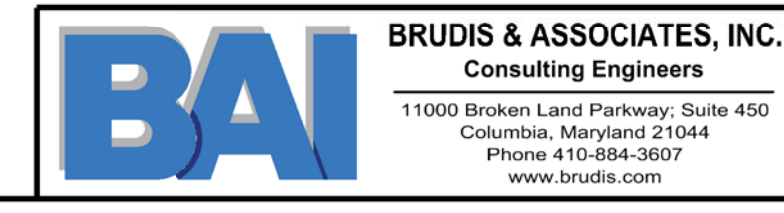
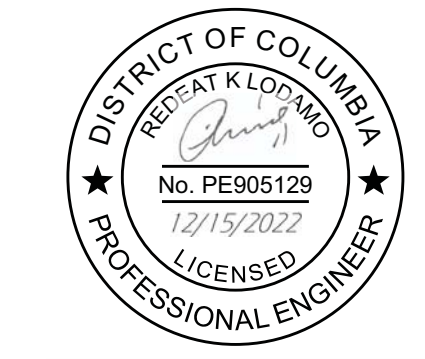
DATED: DECEMBER 22, 2020 SCALE: HOR: 1" = 10' VERT: 1" = 5' **HC-09**

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT DIVISION

PENNSYLVANIA AND POTOMAC AVE SE INTERSECTION IMPROVEMENT PROJECT

ROADWAY CROSS SECTIONS
Station 105+25 To Station 105+50

NOTE:
1. THE VERTICAL LOCATIONS (DEPTH) OF UNDERGROUND WATER LINE, UNDERGROUND GAS AND ELECTRIC LINES ARE FOR INFORMATION PURPOSES ONLY. REFER TO THE UNDERGROUND UTILITY TEST PIT REPORTS FOR THE DEPTH OF EXISTING UTILITIES.
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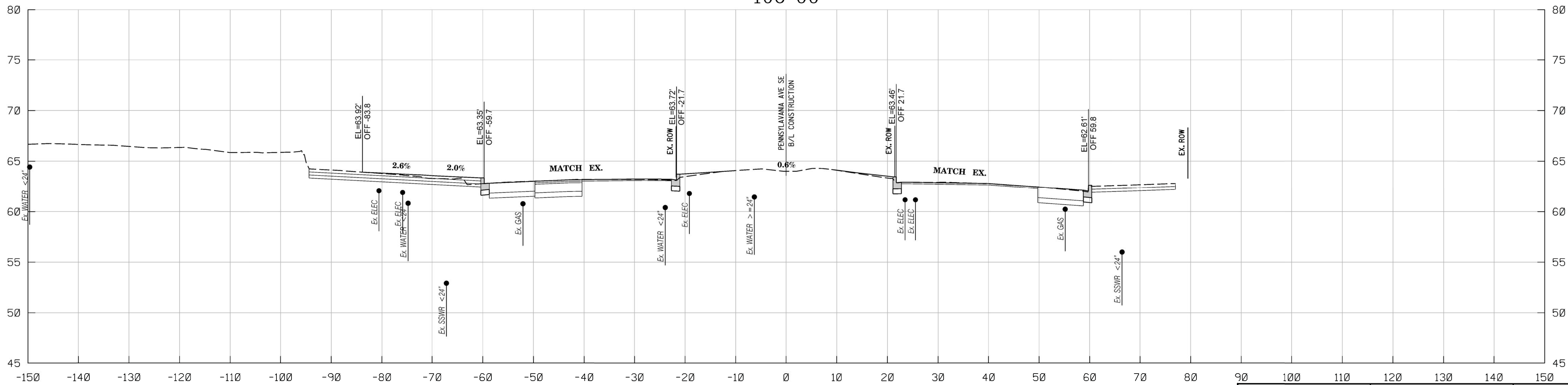
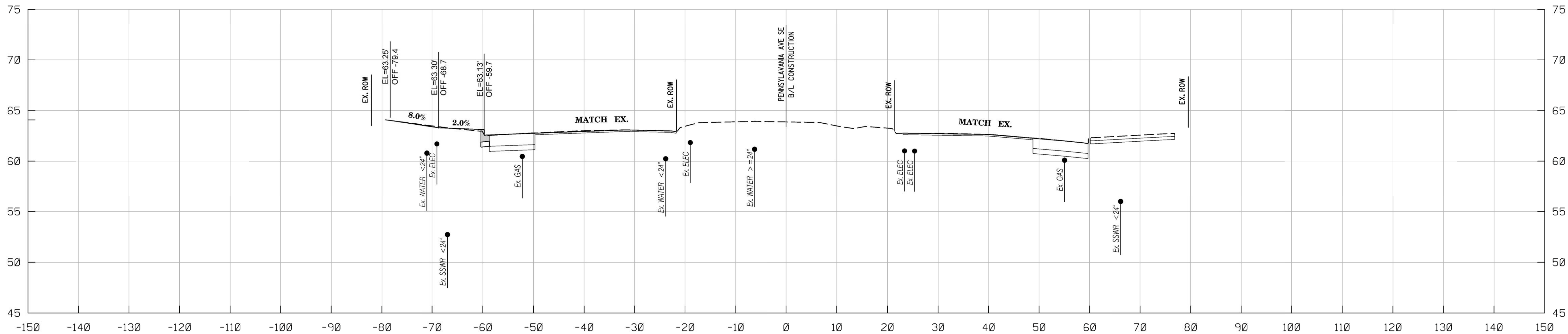


NO.	DESCRIPTION	NAME	DATE

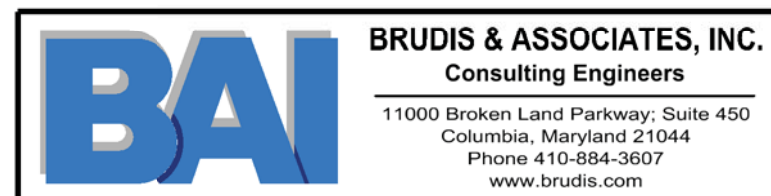
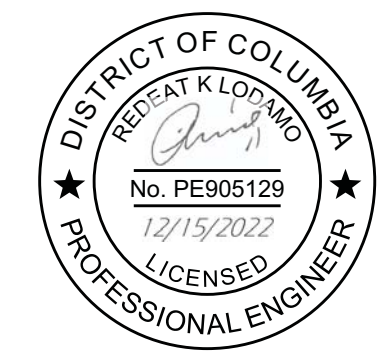
PROJECT ENG. BK
DESIGNED BY BK / RKL
CHECKED BY RKL
DRAWN BY BK
PROJECT MGR. RKL
DIVISION CHIEF
DATE
FILE
SHEET 25 OF 167

P:\17-005.DDOT AE Schedule\1_Pennsylvania Ave. Potomac Ave Improvements\CADD\Working\pdc-X000_Penn Ave & Potomac Ave.dgn Friday, December 16, 2022 AT 10:56 AM

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.	FAP NO. STP - 2018 (009)	26	167



NOTE:
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NO.	DESCRIPTION	NAME	DATE

DATED: DECEMBER 22, 2020 SCALE: HOR: 1" = 10'
 VERT: 1" = 5' **HC-10**

D.C. DEPARTMENT OF TRANSPORTATION
 INFRASTRUCTURE PROJECT MANAGEMENT DIVISION

PENNSYLVANIA AND POTOMAC AVE SE
 INTERSECTION IMPROVEMENT PROJECT

PROJECT ENG. _____
 DESIGNED BY _____
 CHECKED BY _____
 DRAWN BY _____
 PROJECT MGR. _____

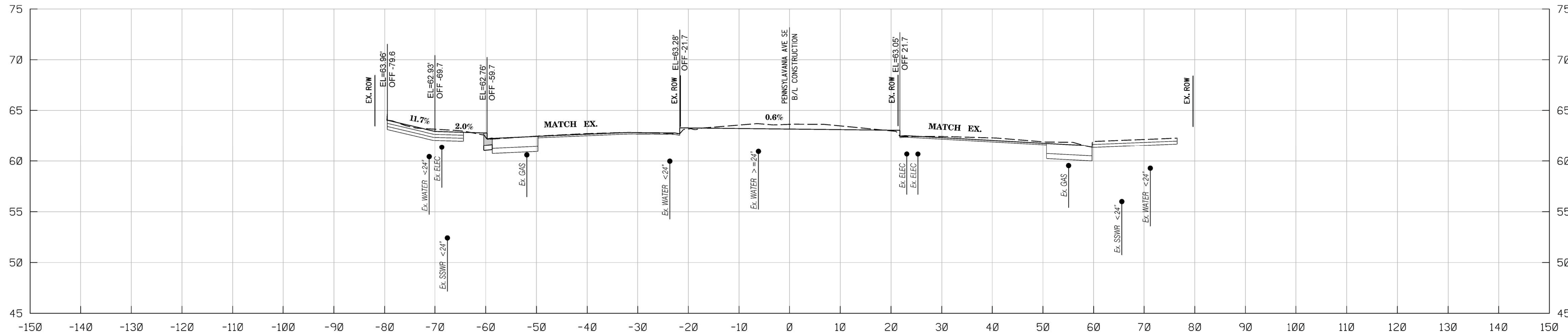
DIVISION CHIEF

ROADWAY CROSS SECTIONS
 Station 105+75 To Station 106+00

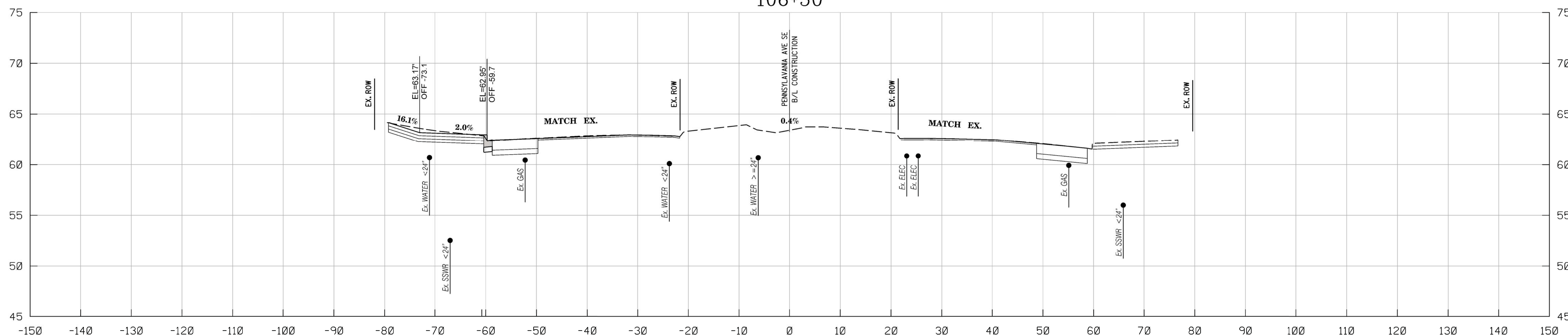
DATE _____
 FILE _____
 SHEET 26 OF 167

P:\17-005.DDOT_AE\Schedule\1_Pennsylvania Ave. Potomac Ave Improvements\CADD\Working\pdc-X000_Penn Ave & Potomac Ave.dgn
 Friday, December 16, 2022 AT 10:56 AM

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.	FAP NO. STP - 2018 (009)	27	167

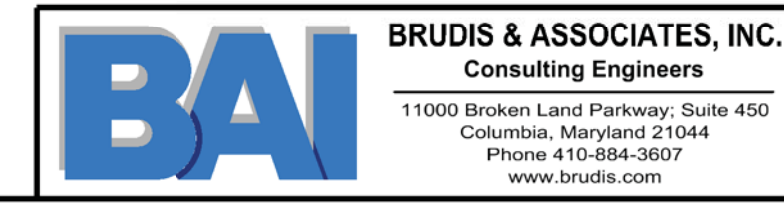
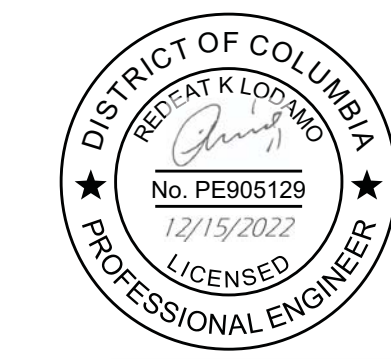


106+50



106+25

NOTE:
 1. THE VERTICAL LOCATIONS (DEPTH) OF UNDERGROUND WATER LINE, UNDERGROUND GAS AND ELECTRIC LINES ARE FOR INFORMATION PURPOSES ONLY. REFER TO THE UNDERGROUND UTILITY TEST PIT REPORTS FOR THE DEPTH OF EXISTING UTILITIES.
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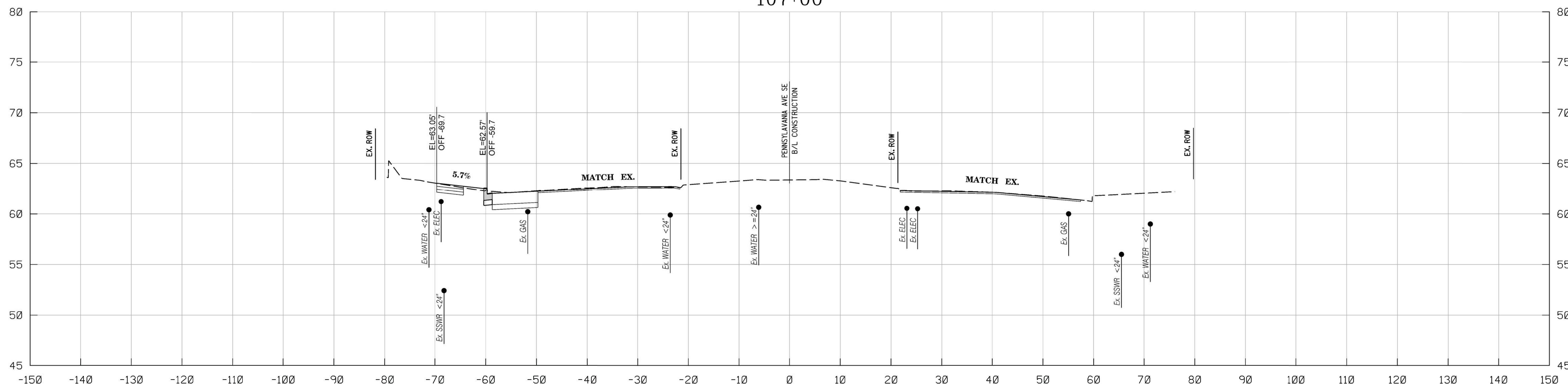
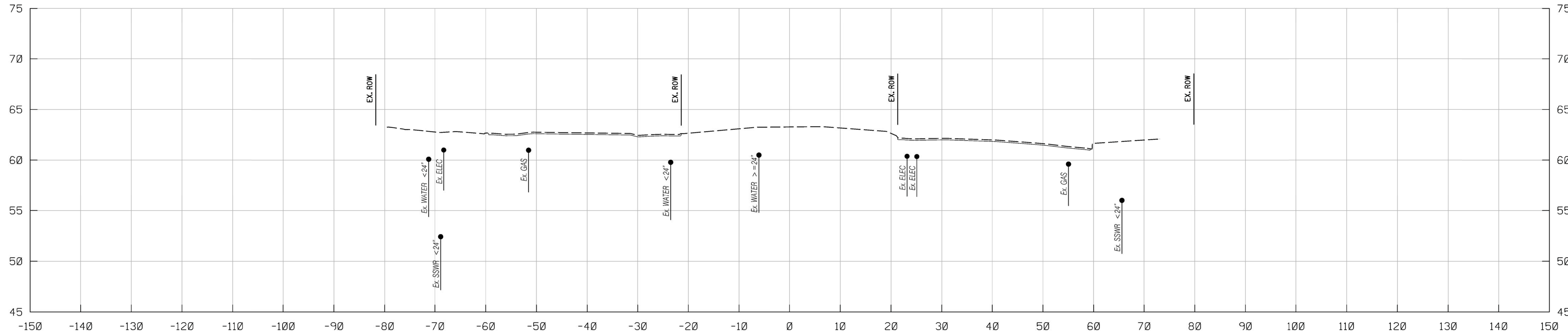


NO.	DESCRIPTION	NAME	DATE

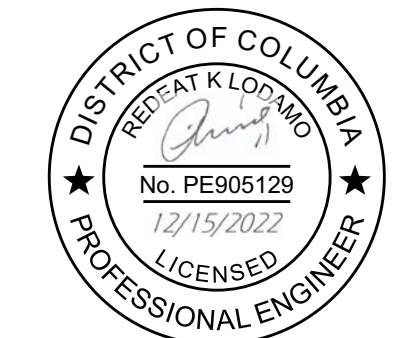
DATED: DECEMBER 22, 2020	SCALE: HOR: 1" = 10' VERT: 1" = 5'	HC-11
D.C. DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT DIVISION		
PENNSYLVANIA AND POTOMAC AVE SE INTERSECTION IMPROVEMENT PROJECT		
PROJECT ENG. <u> BK </u> DESIGNED BY <u> BK/RKL </u> CHECKED BY <u> BK </u> DRAWN BY <u> BK </u> PROJECT MGR. <u> RKL </u>		DIVISION CHIEF
ROADWAY CROSS SECTIONS Station 106+25 To Station 106+50		DATE <u> </u> FILE <u> </u> SHEET 27 OF 167

P:\17-005.DDOT_AE\Schedule\1_Pennsylvania Ave.Potomac Ave Improvements\Drawings\CADD\Working\pdc-X000_Penn Ave & Potomac Ave.dgn
Friday, December 16, 2022 AT 11:06 AM

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.	FAP NO. STP - 2018 (009)	28	167



NOTE:
 1. THE VERTICAL LOCATIONS (DEPTH) OF UNDERGROUND WATER LINE, UNDERGROUND GAS AND ELECTRIC LINES ARE FOR INFORMATION PURPOSES ONLY. REFER TO THE UNDERGROUND UTILITY TEST PIT REPORTS FOR THE DEPTH OF EXISTING UTILITIES.
 2. THE EXISTING SURFACE ON 1401 PENNSYLVANIA AVE SE NEW DEVELOPMENT PROJECT IS CREATED FROM THE DESIGN DRAWINGS PROVIDED BY THE CONTRACTOR. THE ELEVATIONS SHOULD BE FIELD VERIFIED BEFORE THE CONSTRUCTION.



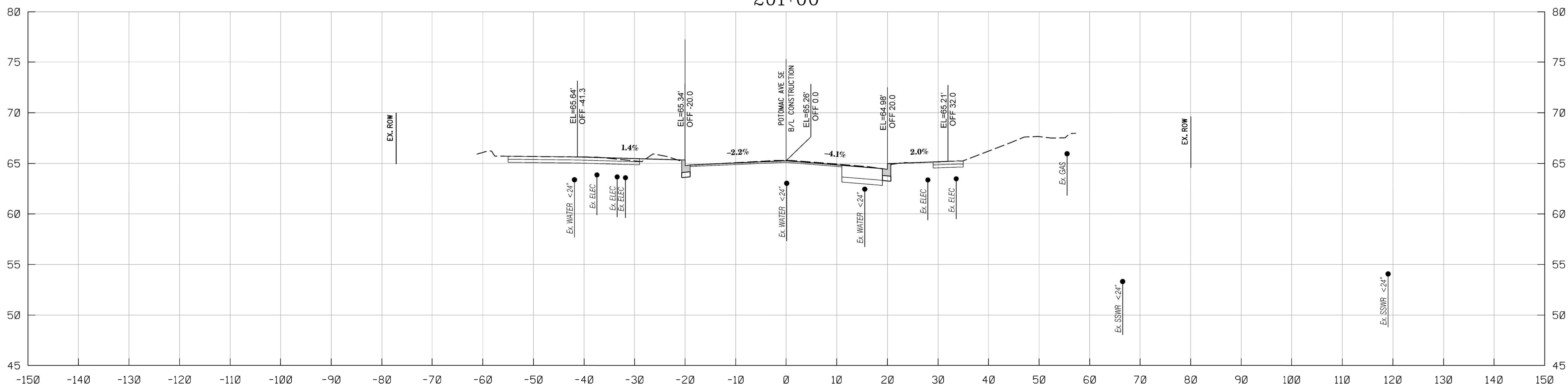
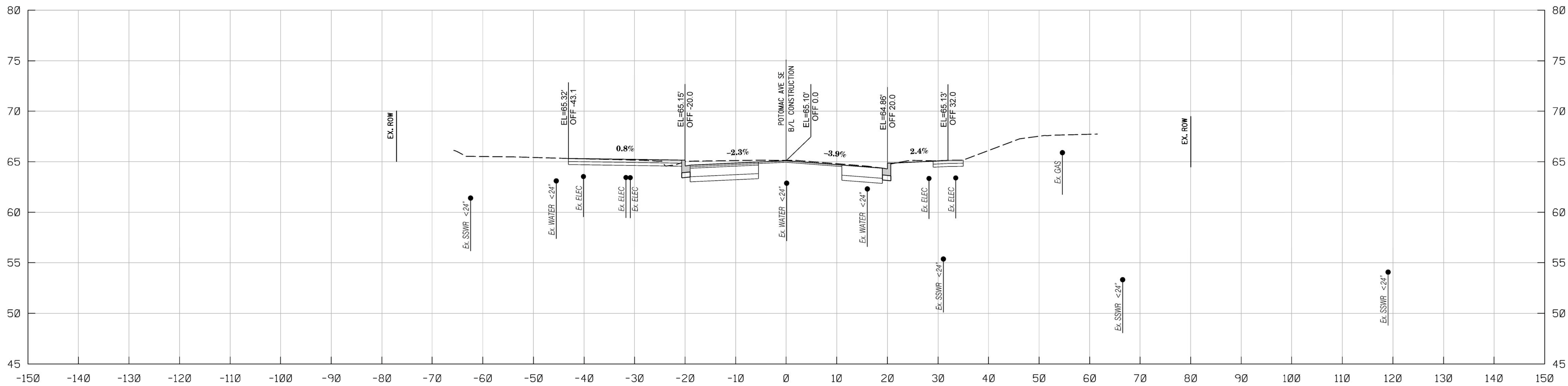
BAI BRUDIS & ASSOCIATES, INC.
 Consulting Engineers
 11000 Broken Land Parkway, Suite 450
 Columbia, Maryland 21044
 Phone 410-894-3607
 www.brudis.com

NO.	DESCRIPTION	NAME	DATE

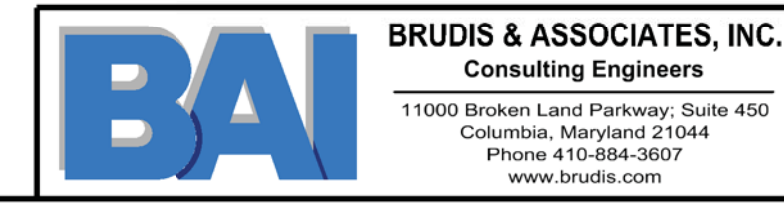
DATED: DECEMBER 22, 2020	SCALE: HOR: 1" = 10' VERT: 1" = 5'	HC-12
D.C. DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT DIVISION		
PENNSYLVANIA AND POTOMAC AVE SE INTERSECTION IMPROVEMENT PROJECT		
ROADWAY CROSS SECTIONS Station 106+75 To Station 107+00		PROJECT ENG. <u> </u> BK DESIGNED BY <u> </u> BK / RKL CHECKED BY <u> </u> RKL DRAWN BY <u> </u> BK PROJECT MGR. <u> </u> RKL DIVISION CHIEF DATE <u> </u> FILE <u> </u> SHEET 28 OF 167

P:\17-005.DDOT_AE\Schedule\1_Pennsylvania Ave. Potomac Ave Improvements\CADD\Drawings\CADD\Working\pdc-X000_Penn Ave & Potomac Ave.dgn
 Friday, December 16, 2022 AT 11:09 AM

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.	FAP NO. STP - 2018 (009)	30	167



NOTE:
 1. THE VERTICAL LOCATIONS (DEPTH) OF UNDERGROUND WATER LINE, UNDERGROUND GAS AND ELECTRIC LINES ARE FOR INFORMATION PURPOSES ONLY. REFER TO THE UNDERGROUND UTILITY TEST PIT REPORTS FOR THE DEPTH OF EXISTING UTILITIES.
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NO.	DESCRIPTION	NAME	DATE

DATED: DECEMBER 22, 2020 SCALE: HOR: 1" = 10' VERT: 1" = 5' **HC-14**

D.C. DEPARTMENT OF TRANSPORTATION
 INFRASTRUCTURE PROJECT MANAGEMENT DIVISION

PENNSYLVANIA AND POTOMAC AVE SE
 INTERSECTION IMPROVEMENT PROJECT

PROJECT ENG: BK
 DESIGNED BY: BK / RKL
 CHECKED BY: RKL
 DRAWN BY: BK
 PROJECT MGR: RKL

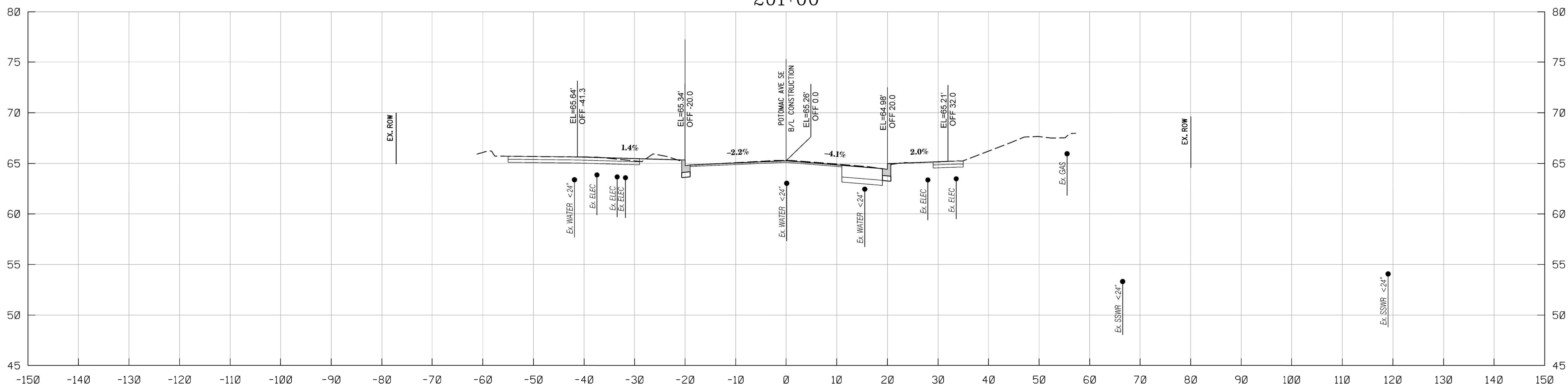
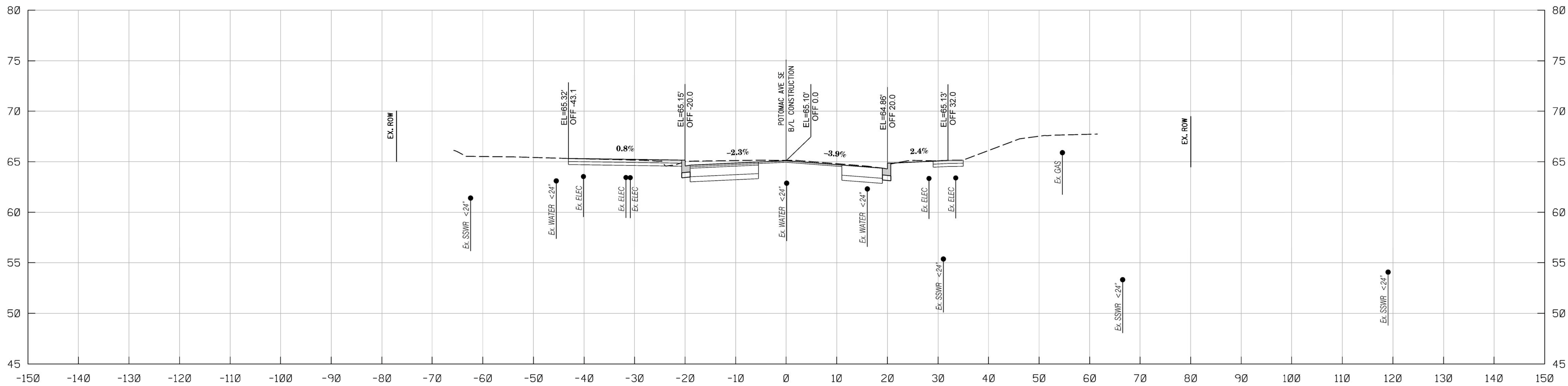
DIVISION CHIEF

ROADWAY CROSS SECTIONS
 Station 200+75 To Station 201+00

DATE:
 FILE:
 SHEET 30 OF 167

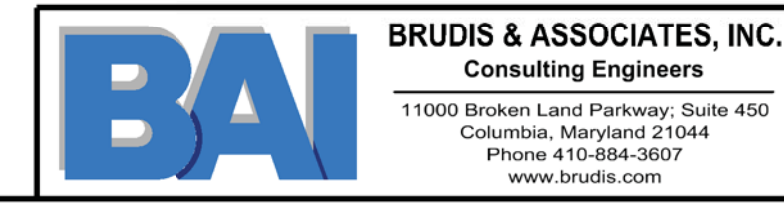
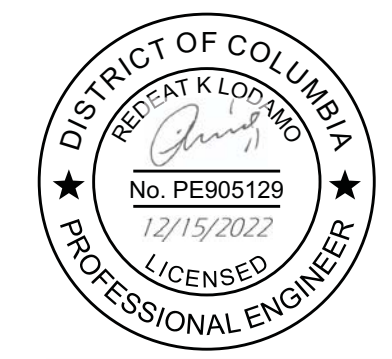
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 Friday, December 16, 2022 AT 11:20 AM

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.	FAP NO. STP - 2018 (009)	30	167



NOTE:

1. THE VERTICAL LOCATIONS (DEPTH) OF UNDERGROUND WATER LINE, UNDERGROUND GAS AND ELECTRIC LINES ARE FOR INFORMATION PURPOSES ONLY. REFER TO THE UNDERGROUND UTILITY TEST PIT REPORTS FOR THE DEPTH OF EXISTING UTILITIES..
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NO.	DESCRIPTION	NAME	DATE

DATED: DECEMBER 22, 2020 SCALE: HOR: 1" = 10' VERT: 1" = 5' **HC-14**

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT DIVISION

PENNSYLVANIA AND POTOMAC AVE SE
INTERSECTION IMPROVEMENT PROJECT

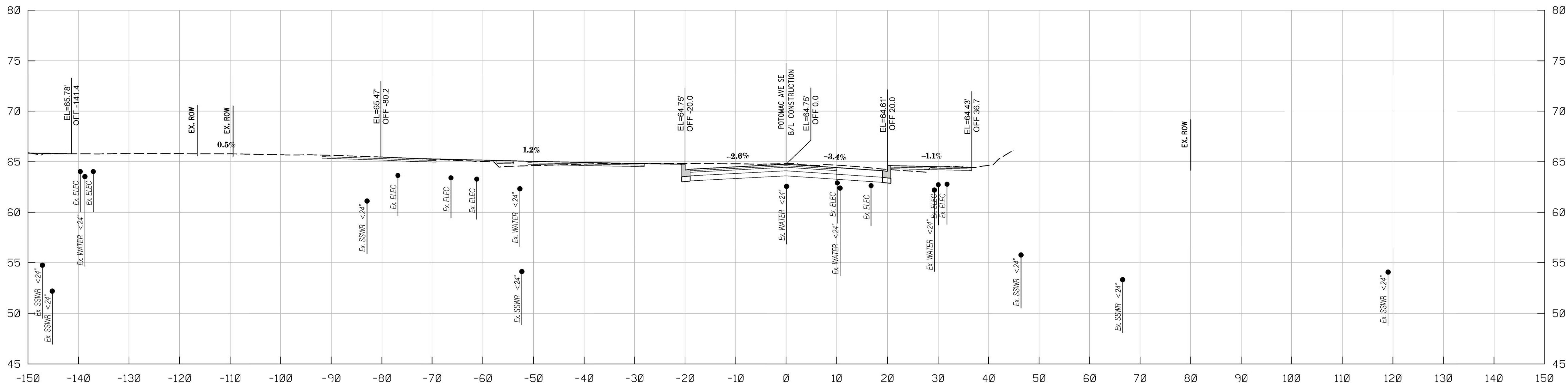
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DESIGNED BY BK / RKL
CHECKED BY RKL
DRAWN BY BK
PROJECT MGR. RKL

DIVISION CHIEF

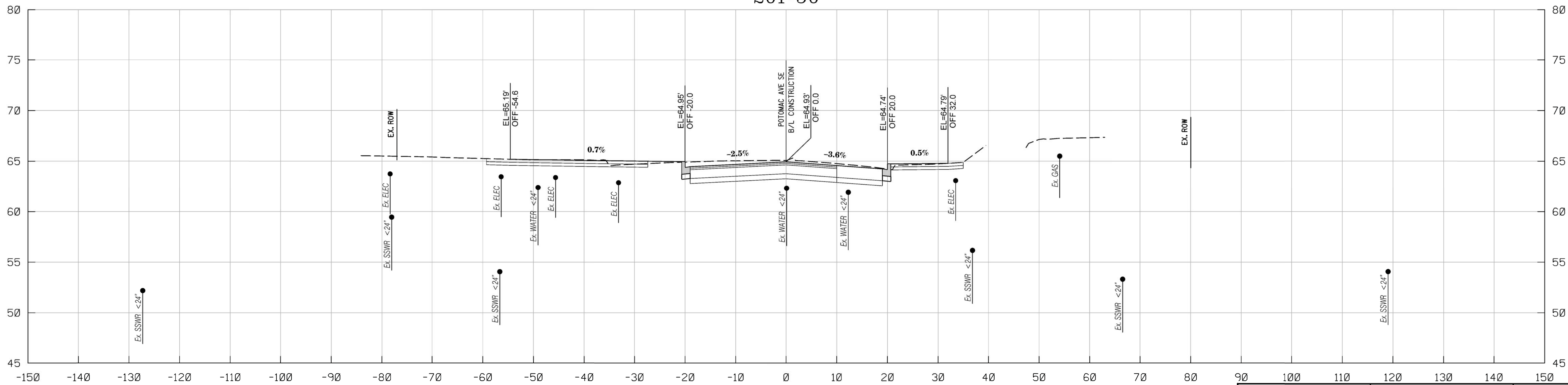
ROADWAY CROSS SECTIONS
Station 200+75 To Station 201+00

DATE
FILE
SHEET 30 OF 167

P:\17-005.DDOT AE Schedule\1. Pennsylvania Ave. Potomac Ave Improvements\CADD\Drawings\CADD\Working\pdc-X000-Penn Ave & Potomac Ave.dgn
Friday, December 16, 2022 AT 11:19 AM

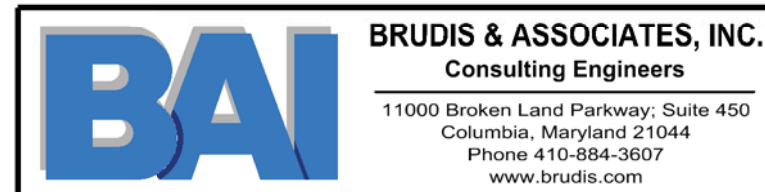
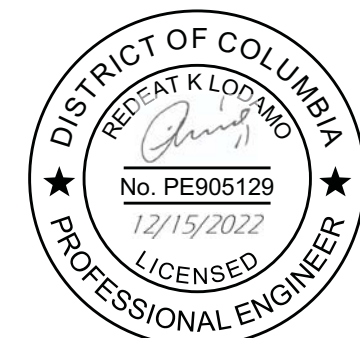


201+50



201+25

NOTE:
 1. THE VERTICAL LOCATIONS (DEPTH) OF UNDERGROUND WATER LINE, UNDERGROUND GAS AND ELECTRIC LINES ARE FOR INFORMATION PURPOSES ONLY. REFER TO THE UNDERGROUND UTILITY TEST PIT REPORTS FOR THE DEPTH OF EXISTING UTILITIES.
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DATED: DECEMBER 22, 2020 SCALE: HOR: 1" = 10' VERT: 1" = 5' **HC-15**

D.C. DEPARTMENT OF TRANSPORTATION
 INFRASTRUCTURE PROJECT MANAGEMENT DIVISION

PENNSYLVANIA AND POTOMAC AVE SE
 INTERSECTION IMPROVEMENT PROJECT

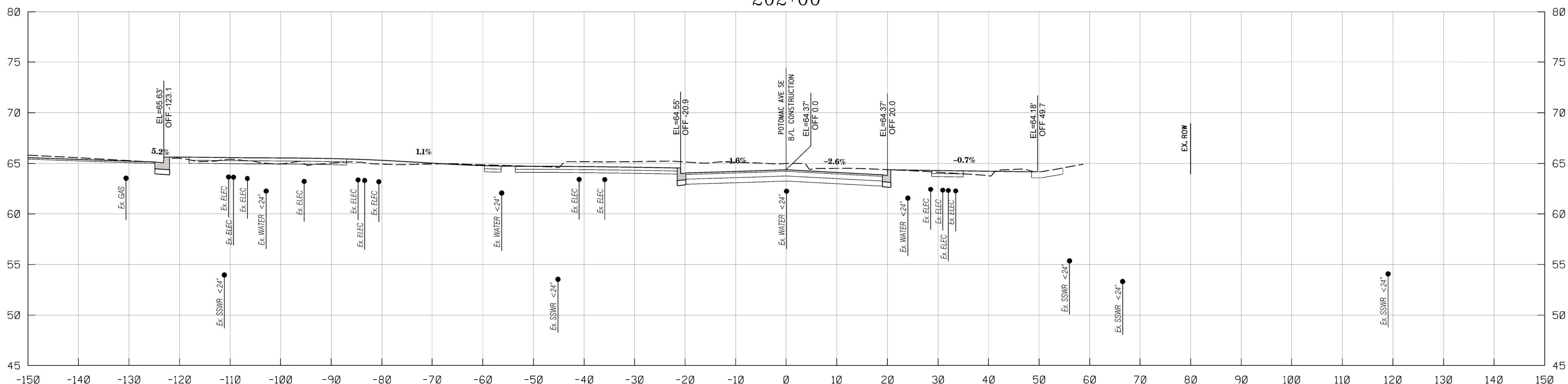
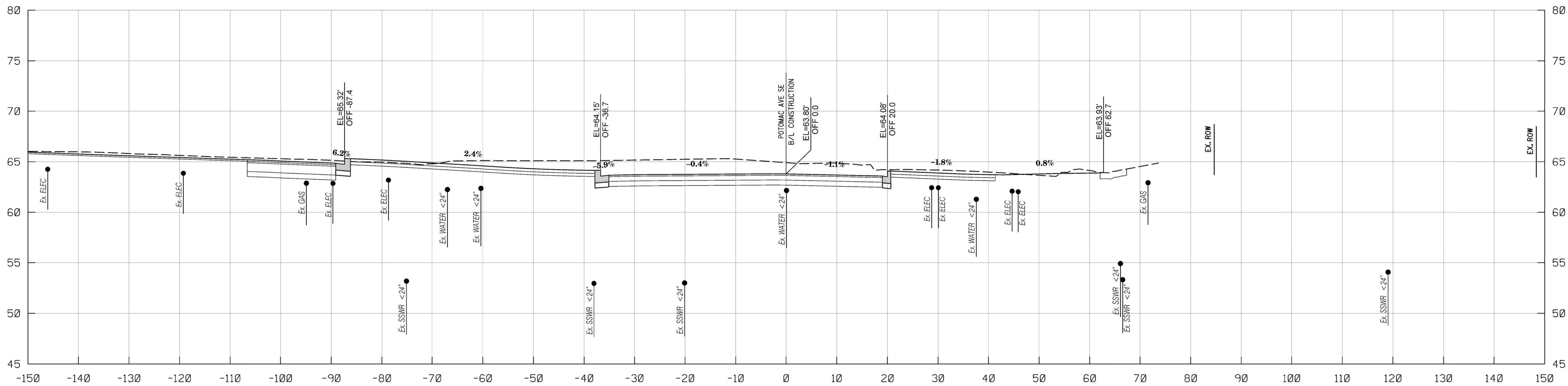
ROADWAY CROSS SECTIONS
 Station 201+25 To Station 201+50

PROJECT ENG. BK
 DESIGNED BY BK / RKL
 CHECKED BY RKL
 DRAWN BY BK
 PROJECT MGR. RKL
 DIVISION CHIEF
 DATE
 FILE
 SHEET 31 OF 167

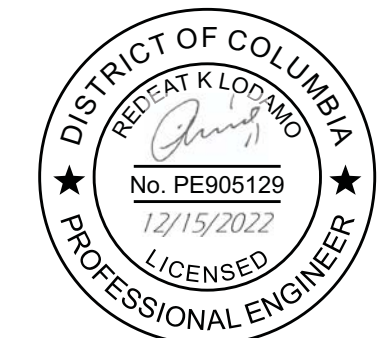
NO.	DESCRIPTION	NAME	DATE

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 Friday, December 16, 2022 AT 11:28 AM

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.	FAP NO. STP - 2018 (009)	32	167



NOTE:
 1. THE VERTICAL LOCATIONS (DEPTH) OF UNDERGROUND WATER LINE, UNDERGROUND GAS AND ELECTRIC LINES ARE FOR INFORMATION PURPOSES ONLY. REFER TO THE UNDERGROUND UTILITY TEST PIT REPORTS FOR THE DEPTH OF EXISTING UTILITIES.
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DATED: DECEMBER 22, 2020 SCALE: HOR: 1" = 10' VERT: 1" = 5' **HC-16**

D.C. DEPARTMENT OF TRANSPORTATION
 INFRASTRUCTURE PROJECT MANAGEMENT DIVISION

PENNSYLVANIA AND POTOMAC AVE SE
 INTERSECTION IMPROVEMENT PROJECT

ROADWAY CROSS SECTIONS
 Station 201+75 To Station 202+00

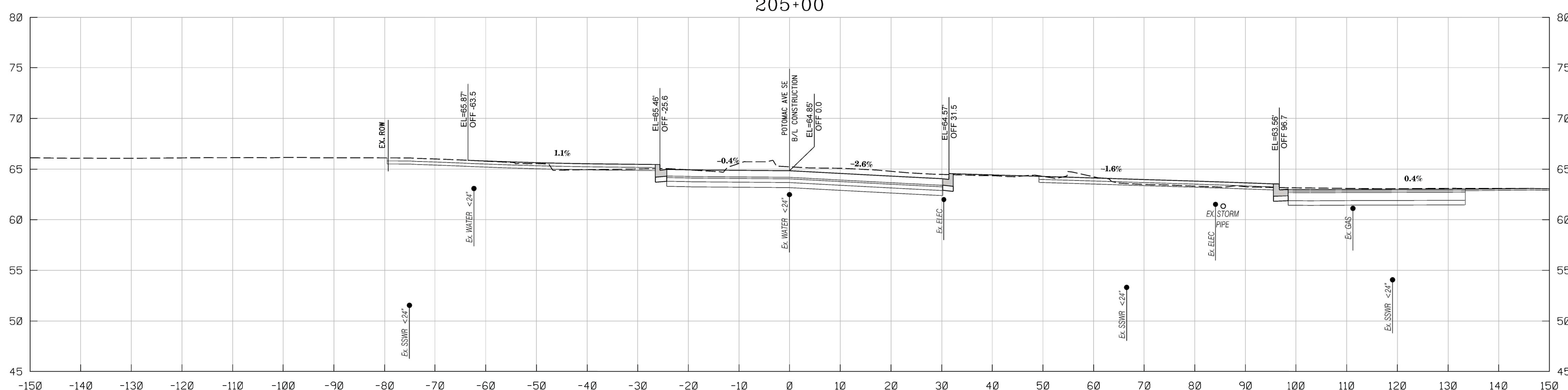
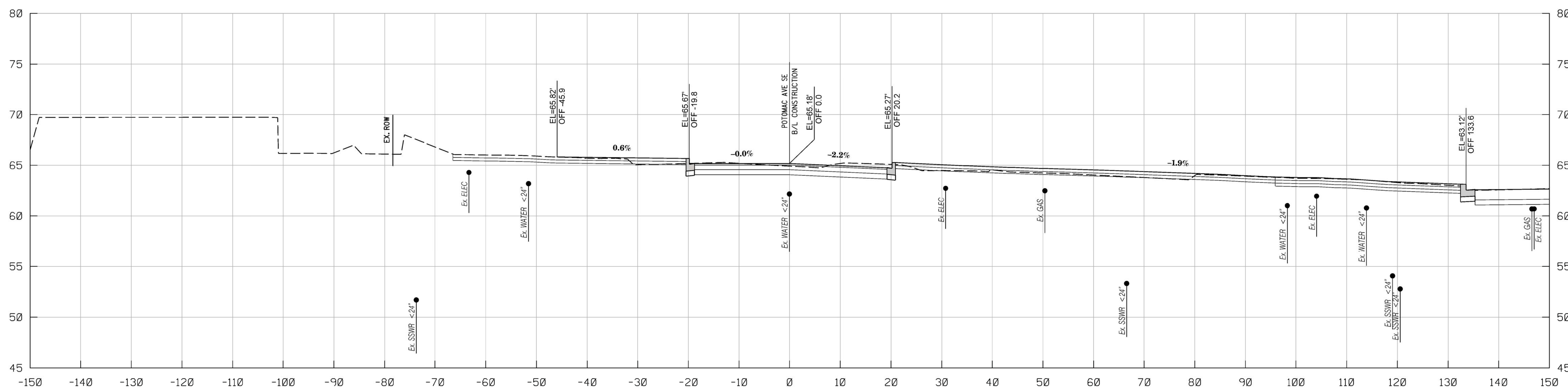
PROJECT ENG. BK
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 CHECKED BY RKL
 DRAWN BY BK
 PROJECT MGR. RKL

DIVISION CHIEF
 DATE
 FILE
 SHEET 32 OF 167

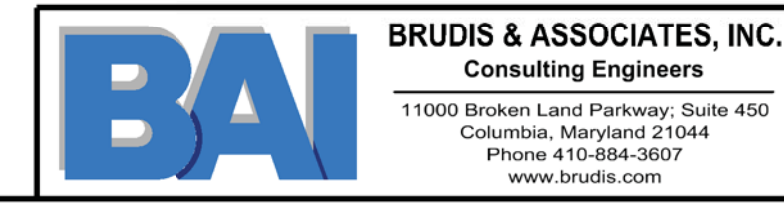
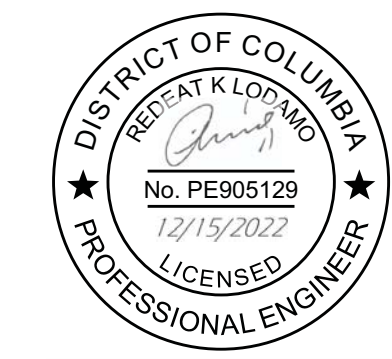
NO.	DESCRIPTION	NAME	DATE

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 Friday, December 16, 2022 AT 11:29 AM

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.	FAP NO. STP - 2018 (009)	33	167



NOTE:
 1. THE VERTICAL LOCATIONS (DEPTH) OF UNDERGROUND WATER LINE, UNDERGROUND GAS AND ELECTRIC LINES ARE FOR INFORMATION PURPOSES ONLY. REFER TO THE UNDERGROUND UTILITY TEST PIT REPORTS FOR THE DEPTH OF EXISTING UTILITIES.
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NO.	DESCRIPTION	NAME	DATE

DATED: DECEMBER 22, 2020 SCALE: HOR: 1" = 10' VERT: 1" = 5' **HC-17**

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT DIVISION

PENNSYLVANIA AND POTOMAC AVE SE
INTERSECTION IMPROVEMENT PROJECT

PROJECT ENG. _____
 DESIGNED BY _____
 CHECKED BY _____
 DRAWN BY _____
 PROJECT MGR. _____

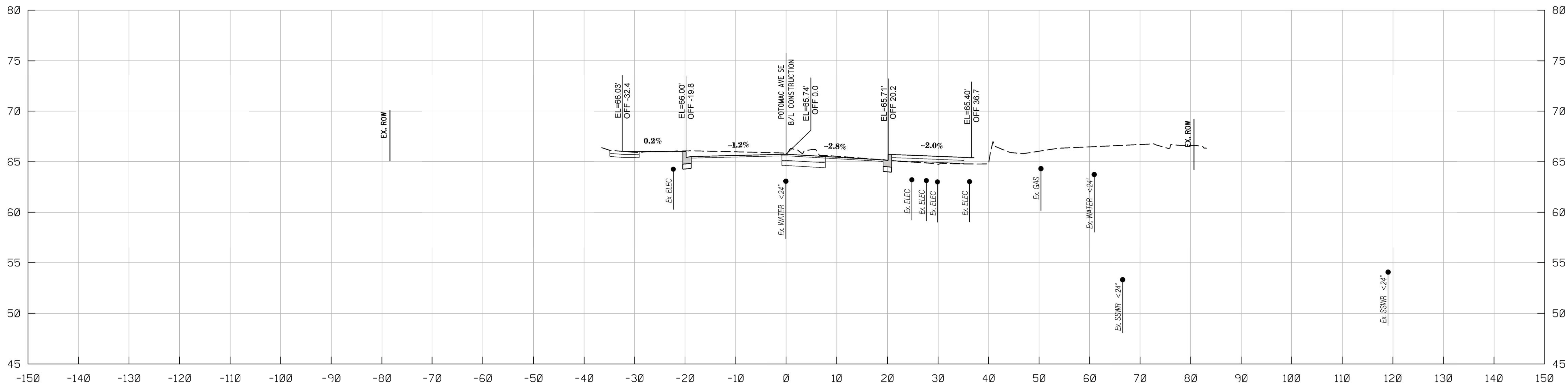
DIVISION CHIEF

ROADWAY CROSS SECTIONS
Station 204 + 75 To Station 205 + 00

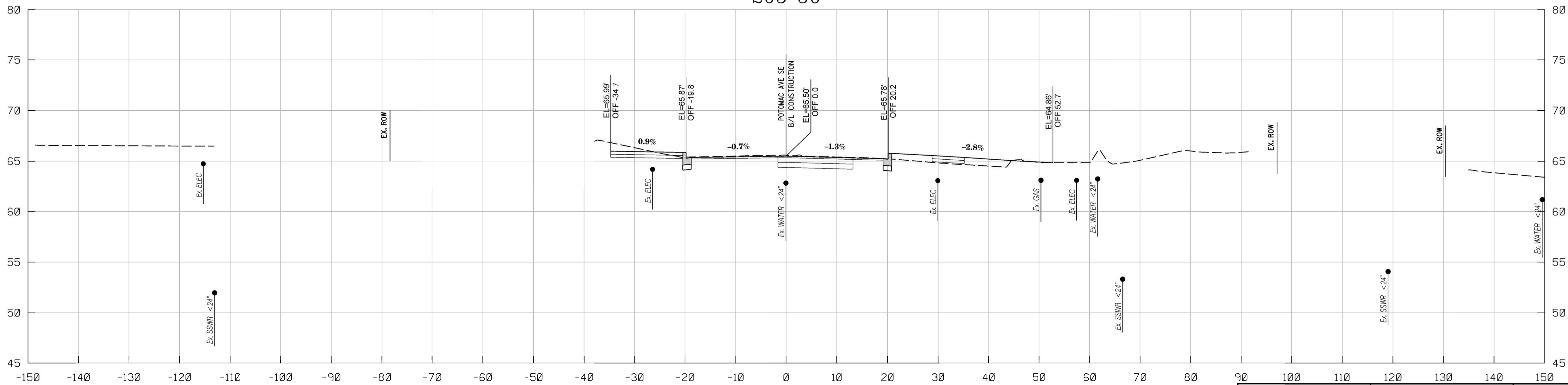
DATE _____
 FILE _____
 SHEET 33 OF 167

P:\17-005.DDOT AE\Schedule\1_Pennsylvania Ave Improvements\Drawings\CADD\Working\pdc-X000_Penn Ave & Potomac Ave.dwg
 Friday, December 16, 2022 AT 11:54 AM

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.	FAP NO. STP - 2018 (009)	34	167



205+50



205+25

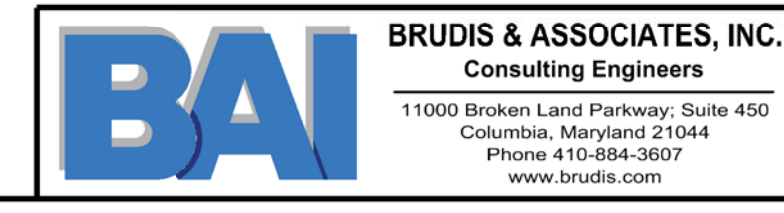
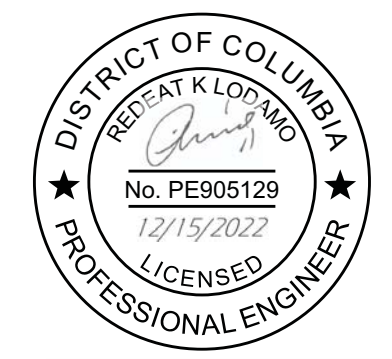
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D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT DIVISION

PENNSYLVANIA AND POTOMAC AVE SE INTERSECTION IMPROVEMENT PROJECT

ROADWAY CROSS SECTIONS
Station 205+25 To Station 205+50

NOTE:
1. THE VERTICAL LOCATIONS (DEPTH) OF UNDERGROUND WATER LINE, UNDERGROUND GAS AND ELECTRIC LINES ARE FOR INFORMATION PURPOSES ONLY. REFER TO THE UNDERGROUND UTILITY TEST PIT REPORTS FOR THE DEPTH OF EXISTING UTILITIES.
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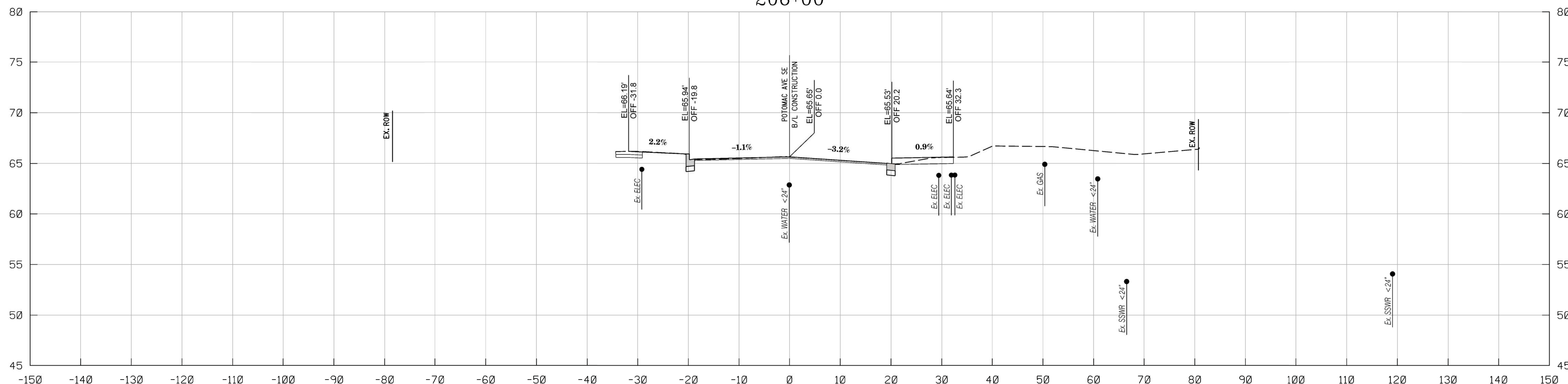
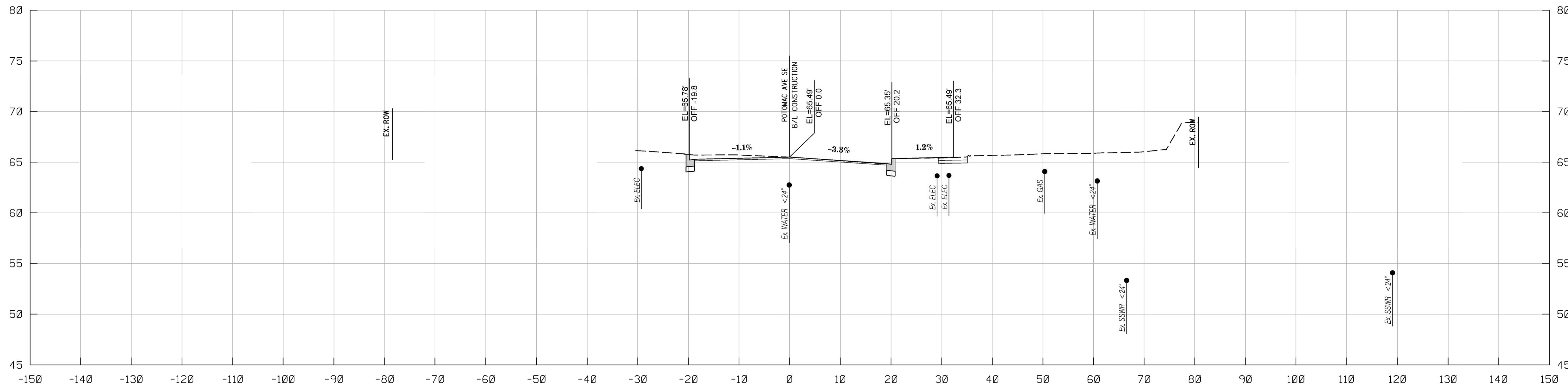


NO.	DESCRIPTION	NAME	DATE

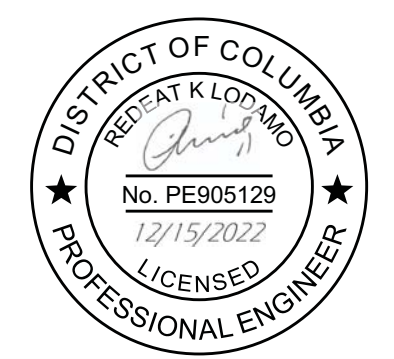
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Friday, December 16, 2022 AT 11:54 AM

PROJECT ENG. BK
DESIGNED BY BK/RKL
CHECKED BY BK
DRAWN BY BK
PROJECT MGR. RKL
DIVISION CHIEF
DATE
FILE
SHEET 34 OF 167

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.	FAP NO. STP - 2018 (009)	35	167



NOTE:
 1. THE VERTICAL LOCATIONS (DEPTH) OF UNDERGROUND WATER LINE, UNDERGROUND GAS AND ELECTRIC LINES ARE FOR INFORMATION PURPOSES ONLY. REFER TO THE UNDERGROUND UTILITY TEST PIT REPORTS FOR THE DEPTH OF EXISTING UTILITIES.
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BAI BRUDIS & ASSOCIATES, INC.
 Consulting Engineers
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 Columbia, Maryland 21044
 Phone 410-894-3607
 www.brudis.com

NO.	DESCRIPTION	NAME	DATE

DATED: DECEMBER 22, 2020 SCALE: HOR: 1" = 10' VERT: 1" = 5'

HC-19

D.C. DEPARTMENT OF TRANSPORTATION
 INFRASTRUCTURE PROJECT MANAGEMENT DIVISION

PENNSYLVANIA AND POTOMAC AVE SE INTERSECTION IMPROVEMENT PROJECT

ROADWAY CROSS SECTIONS
 Station 205+75 To Station 206+00

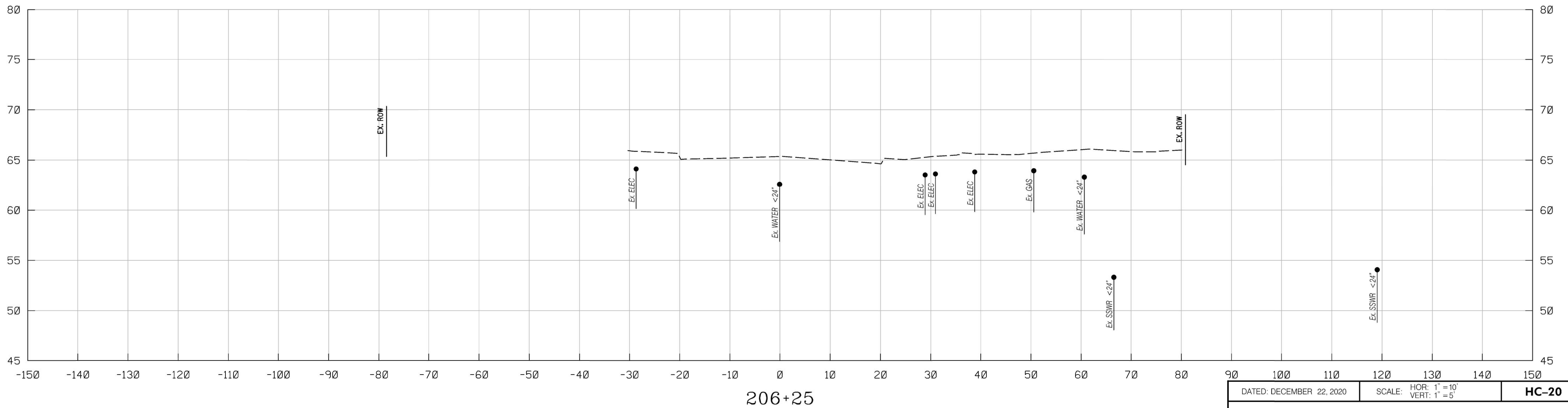
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DIVISION CHIEF

DATE:
 FILE:
 SHEET 35 OF 167

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 Friday, December 16, 2022 AT 11:55 AM

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.	FAP NO. STP - 2018 (009)	36	167



206+25

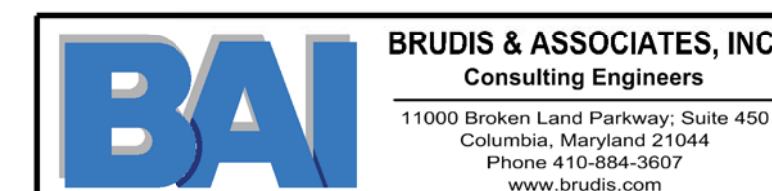
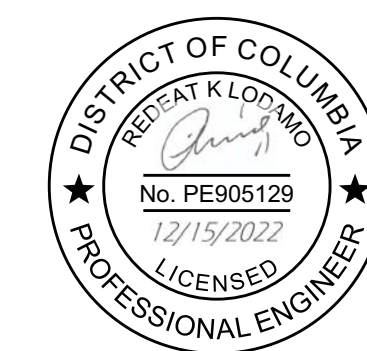
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D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT DIVISION

PENNSYLVANIA AND POTOMAC AVE SE
INTERSECTION IMPROVEMENT PROJECT

ROADWAY CROSS SECTIONS
Station 206 + 25 To Station 206 + 25

NOTE:
1. THE VERTICAL LOCATIONS (DEPTH) OF UNDERGROUND WATER LINE, UNDERGROUND GAS AND ELECTRIC LINES ARE FOR INFORMATION PURPOSES ONLY. REFER TO THE UNDERGROUND UTILITY TEST PIT REPORTS FOR THE DEPTH OF EXISTING UTILITIES.
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NO.	DESCRIPTION	NAME	DATE

REVISIONS

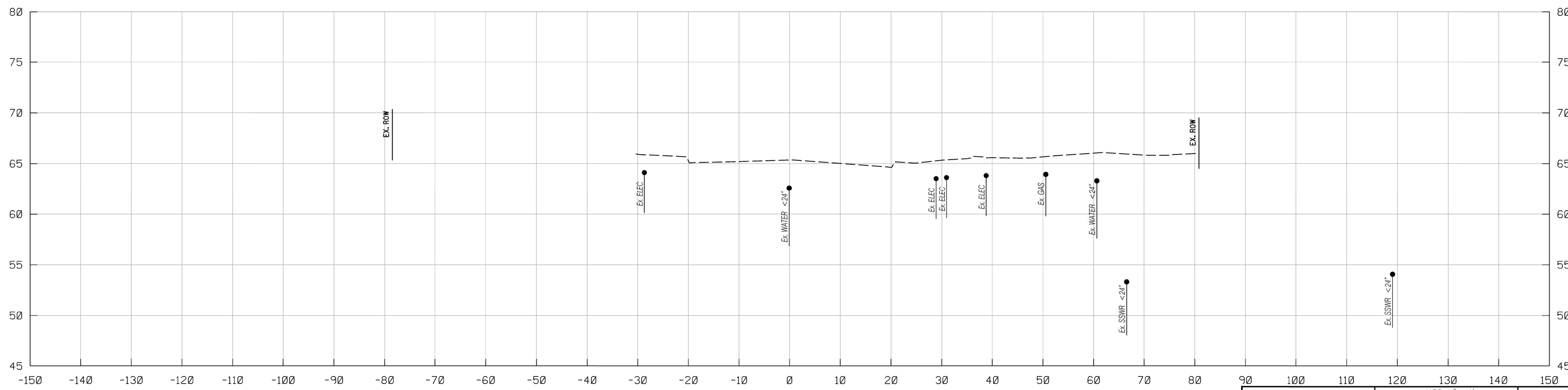
PROJECT ENG. BK
DESIGNED BY BK / RKL
CHECKED BY RKL
DRAWN BY BK
PROJECT MGR. RKL

DIVISION CHIEF

DATE
FILE
SHEET 36 OF 167

P:\17-005.DDOT AE Schedule\1. Pennsylvania Ave. Potomac Ave Improvements\CADD\Drawings\CADD\Working\pdc-X000_Penn Ave & Potomac Ave.dgn
Friday, December 16, 2022 AT 11:56 AM

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.	FAP NO. STP - 2018 (009)	36	167



206+25

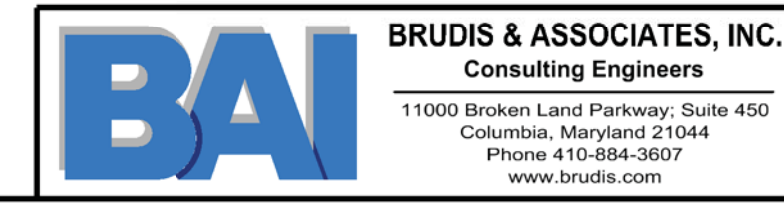
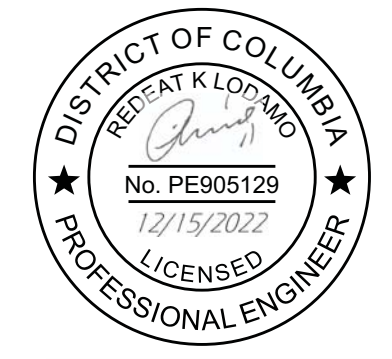
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D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT DIVISION

PENNSYLVANIA AND POTOMAC AVE SE INTERSECTION IMPROVEMENT PROJECT

ROADWAY CROSS SECTIONS
Station 206 + 25 To Station 206 + 25

NOTE:
1. THE VERTICAL LOCATIONS (DEPTH) OF UNDERGROUND WATER LINE, UNDERGROUND GAS AND ELECTRIC LINES ARE FOR INFORMATION PURPOSES ONLY. REFER TO THE UNDERGROUND UTILITY TEST PIT REPORTS FOR THE DEPTH OF EXISTING UTILITIES.
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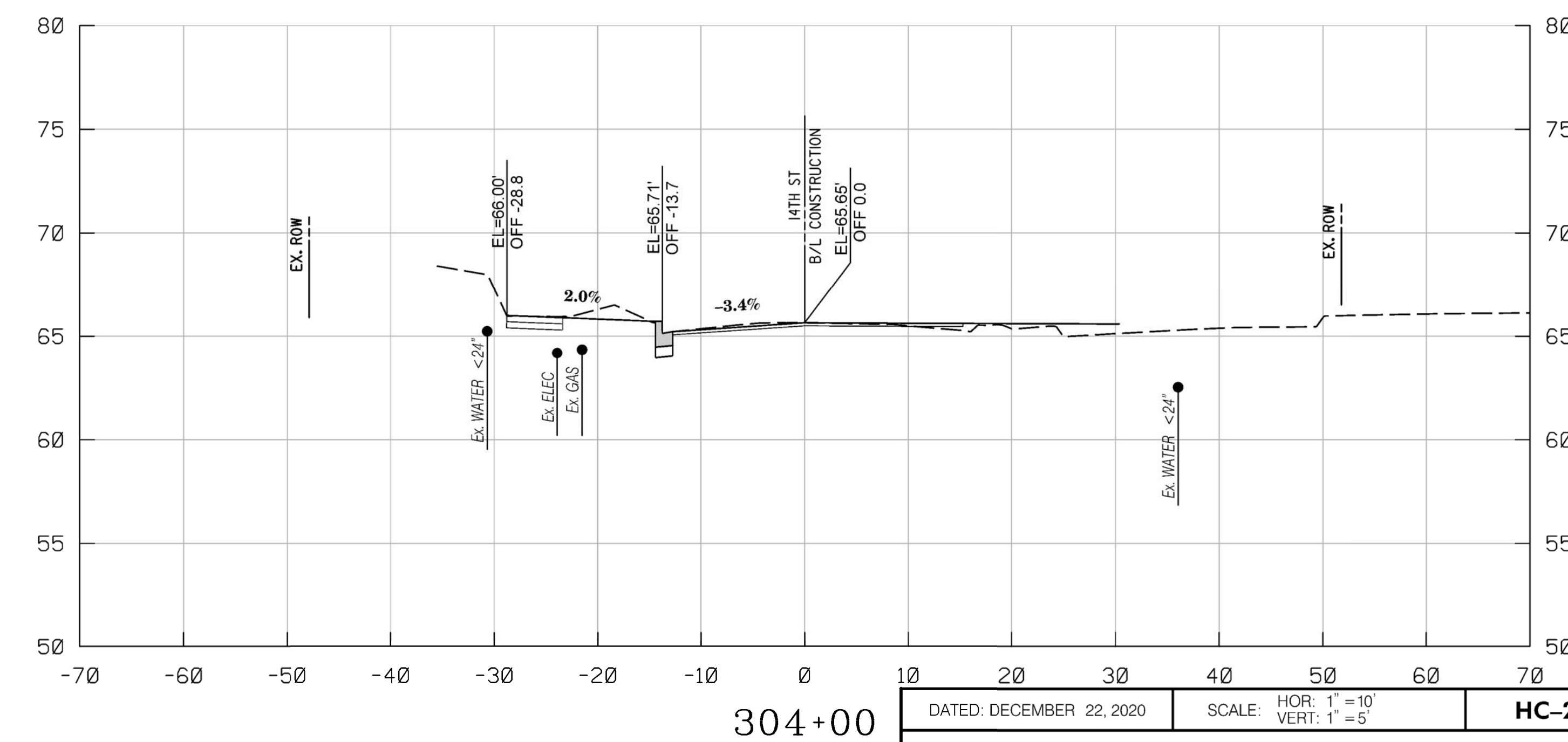
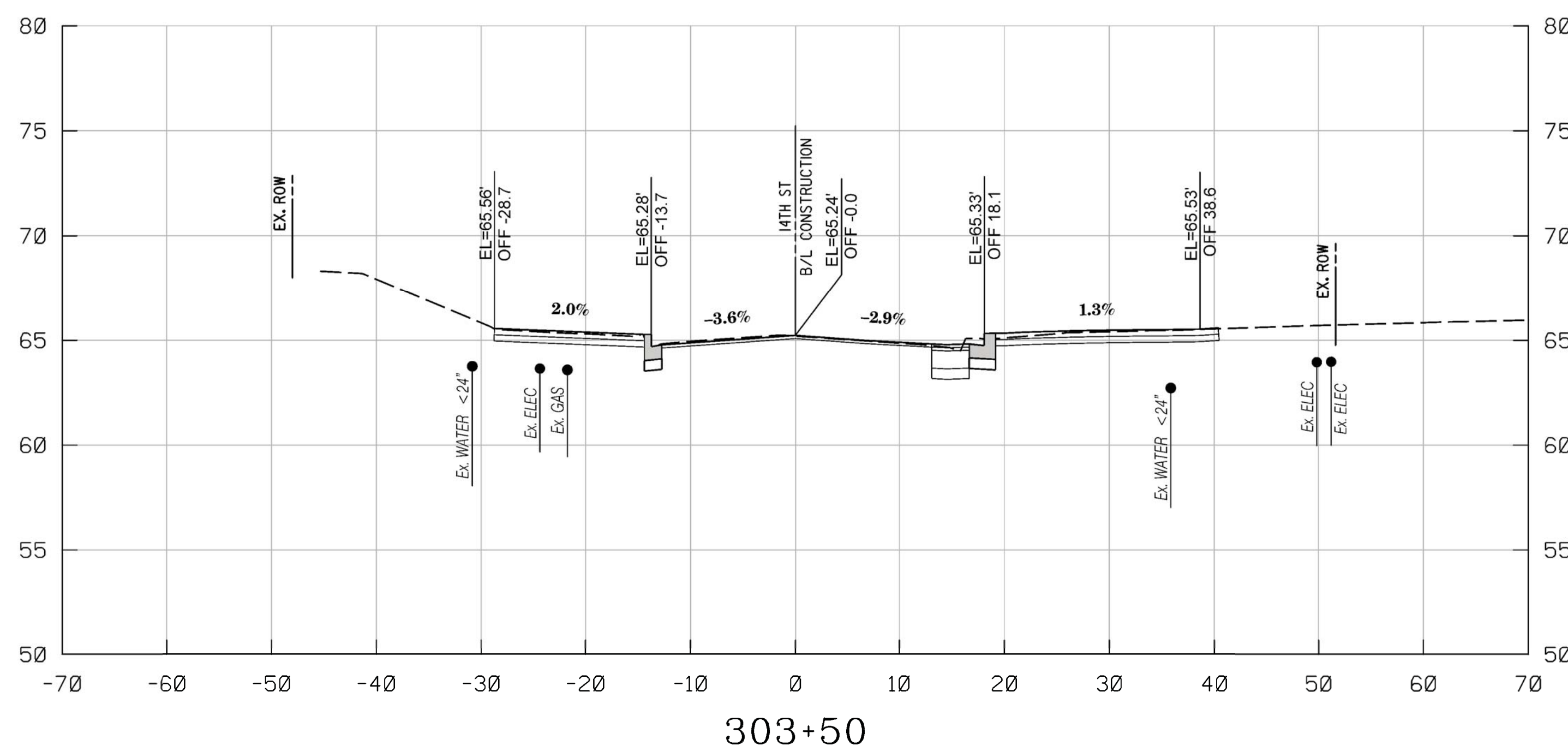
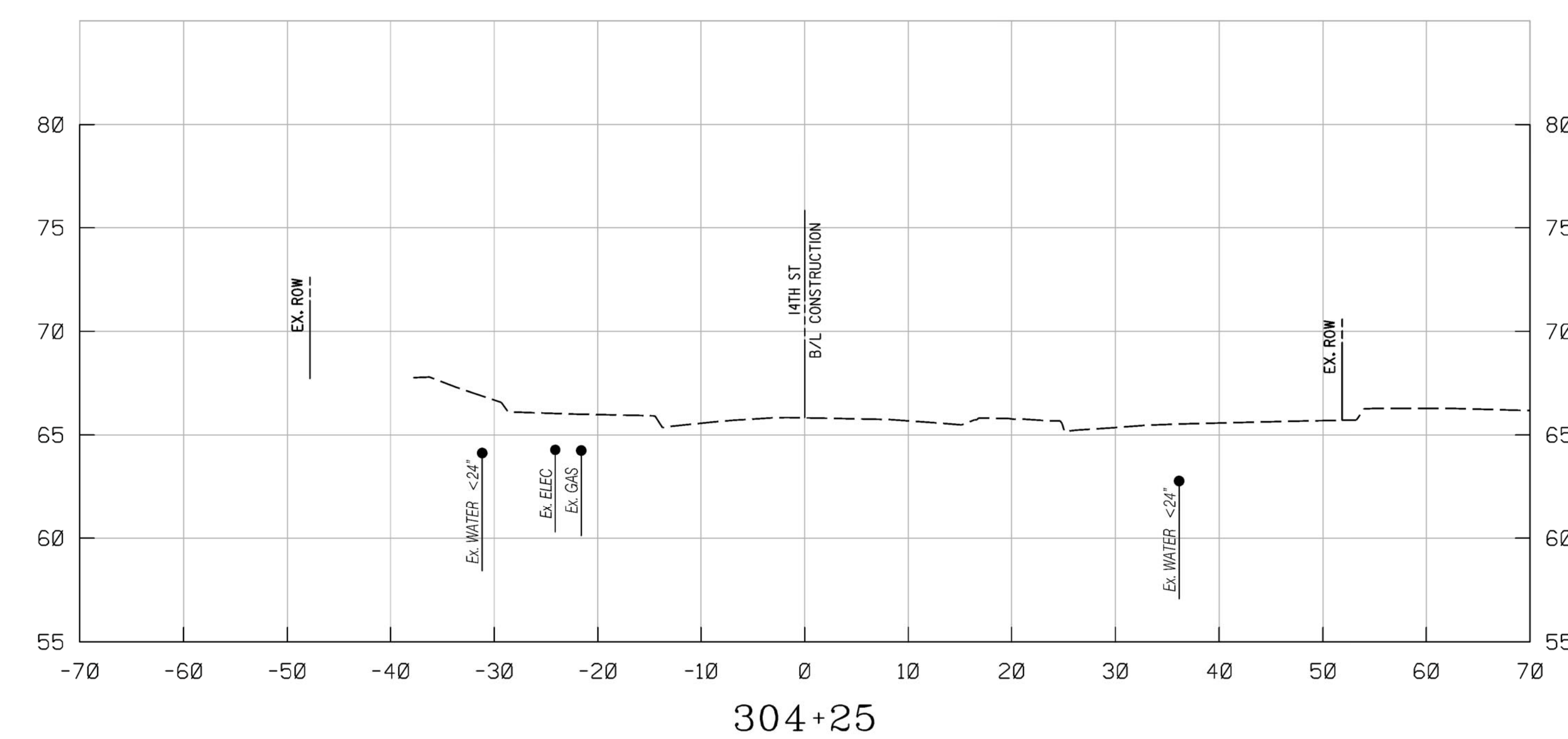
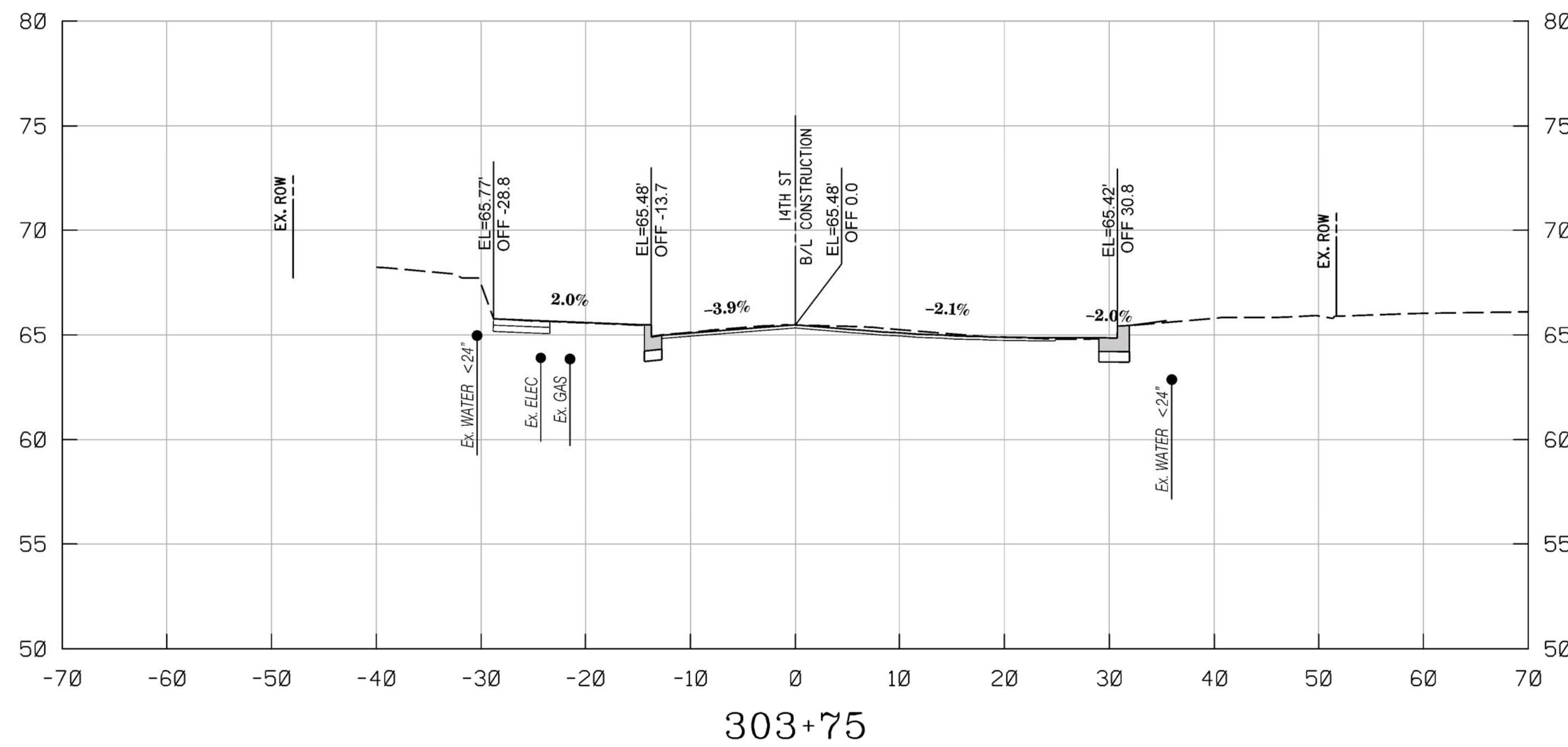


NO.	DESCRIPTION	NAME	DATE

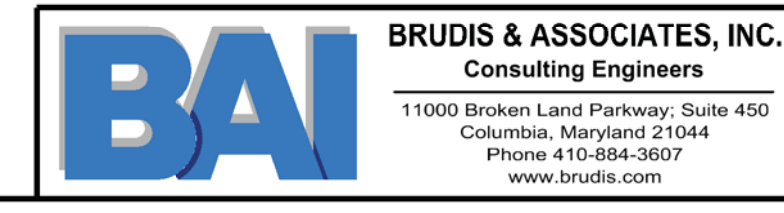
PROJECT ENG. BK
DESIGNED BY BK / RKL
CHECKED BY RKL
DRAWN BY BK
PROJECT MGR. RKL
DIVISION CHIEF
DATE
FILE
SHEET 36 OF 167

P:\17-005.DDOT AE Schedule\1_Pennsylvania Ave. Potomac Ave Improvements\CADD\Drawings\pdc-X000_Penn Ave & Potomac Ave.dgn
Friday, December 16, 2022 AT 12:00 PM

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.	FAP NO. STP - 2018 (009)	38	167



NOTE:
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NO.	DESCRIPTION	NAME	DATE

DATED: DECEMBER 22, 2020 SCALE: HOR: 1" = 10' VERT: 1" = 5' **HC-22**

D.C. DEPARTMENT OF TRANSPORTATION
 INFRASTRUCTURE PROJECT MANAGEMENT DIVISION

PENNSYLVANIA AND POTOMAC AVE SE INTERSECTION IMPROVEMENT PROJECT

PROJECT ENG. BK
 DESIGNED BY BK/RKL
 CHECKED BY RKL
 DRAWN BY BK
 PROJECT MGR. RKL

DIVISION CHIEF

ROADWAY CROSS SECTIONS
 Station 303+50 To Station 304+25

DATE
 FILE
 SHEET 38 OF 167

P:\17-005.DDOT_AE_Schedule\1_Pennsylvania Ave, Potomac Ave Improvements\CADD\Working\pdc-X000_Penn Ave & Potomac Ave.dgn
 Friday, December 16, 2022 AT 12:01 PM

PATTERNS FOR BRICK GUTTER

ISSUED: 8/2015
 REVISION: APPROVAL: [Signature]
 APPROVED: [Signature]

D. DISTRICT OF COLUMBIA
 DEPARTMENT OF TRANSPORTATION

DWG. NO. 606.04

CURB RAMPS LOCATION (TYP.)

ISSUED: 8/2015
 REVISION: APPROVAL: [Signature]
 APPROVED: [Signature]

D. DISTRICT OF COLUMBIA
 DEPARTMENT OF TRANSPORTATION

DWG. NO. 606.06

CURB RAMP DETAILS

ISSUED: 8/2015
 REVISION: APPROVAL: [Signature]
 APPROVED: [Signature]

D. DISTRICT OF COLUMBIA
 DEPARTMENT OF TRANSPORTATION

DWG. NO. 606.08

BIKE RACK

ISSUED: 8/2015
 REVISION: APPROVAL: [Signature]
 APPROVED: [Signature]

D. DISTRICT OF COLUMBIA
 DEPARTMENT OF TRANSPORTATION

DWG. NO. 605.14

PCC BUS PAD

ISSUED: 8/2015
 REVISION: APPROVAL: [Signature]
 APPROVED: [Signature]

D. DISTRICT OF COLUMBIA
 DEPARTMENT OF TRANSPORTATION

DWG. NO. 606.01

TYPES OF PCC CURB & GUTTER

ISSUED: 8/2015
 REVISION: APPROVAL: [Signature]
 APPROVED: [Signature]

D. DISTRICT OF COLUMBIA
 DEPARTMENT OF TRANSPORTATION

DWG. NO. 606.01

DATED: DECEMBER, 2022 SCALE: NONE HD-01

D.C. DEPARTMENT OF TRANSPORTATION
 INFRASTRUCTURE PROJECT MANAGEMENT DIVISION

PENNSYLVANIA AND POTOMAC AVE SE
 INTERSECTION IMPROVEMENT PROJECT

PROJECT ENG. [Signature]
 DESIGNED BY [Signature]
 CHECKED BY [Signature]
 DRAWN BY [Signature]
 PROJECT MGR. [Signature]

DIVISION CHIEF

DATE _____
 FILE _____
 SHEET 39 OF 167

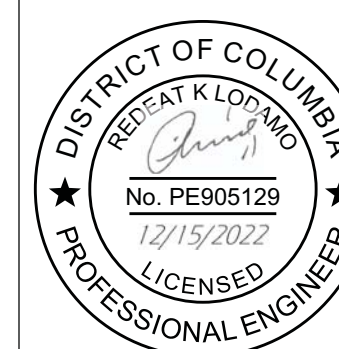
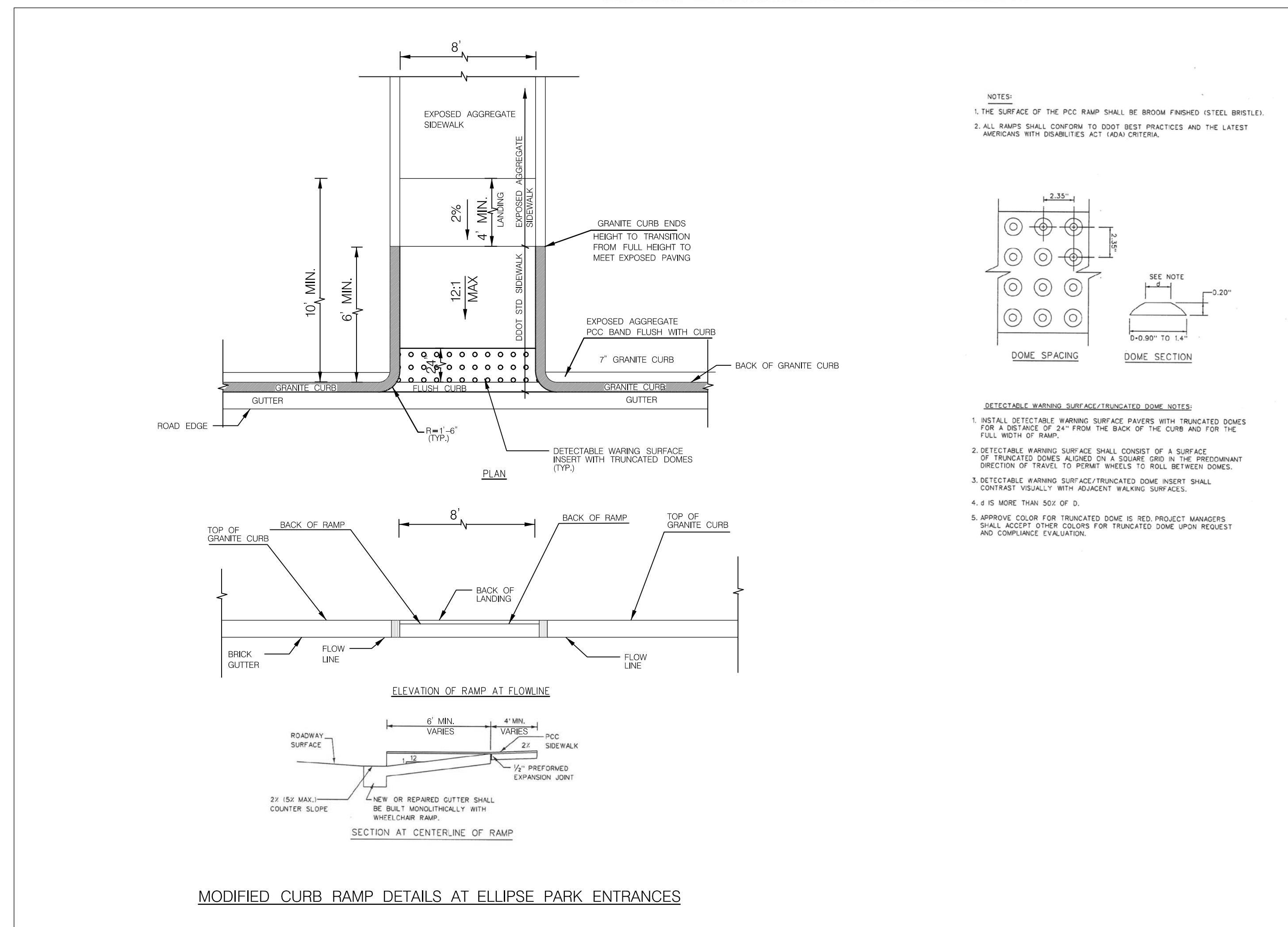
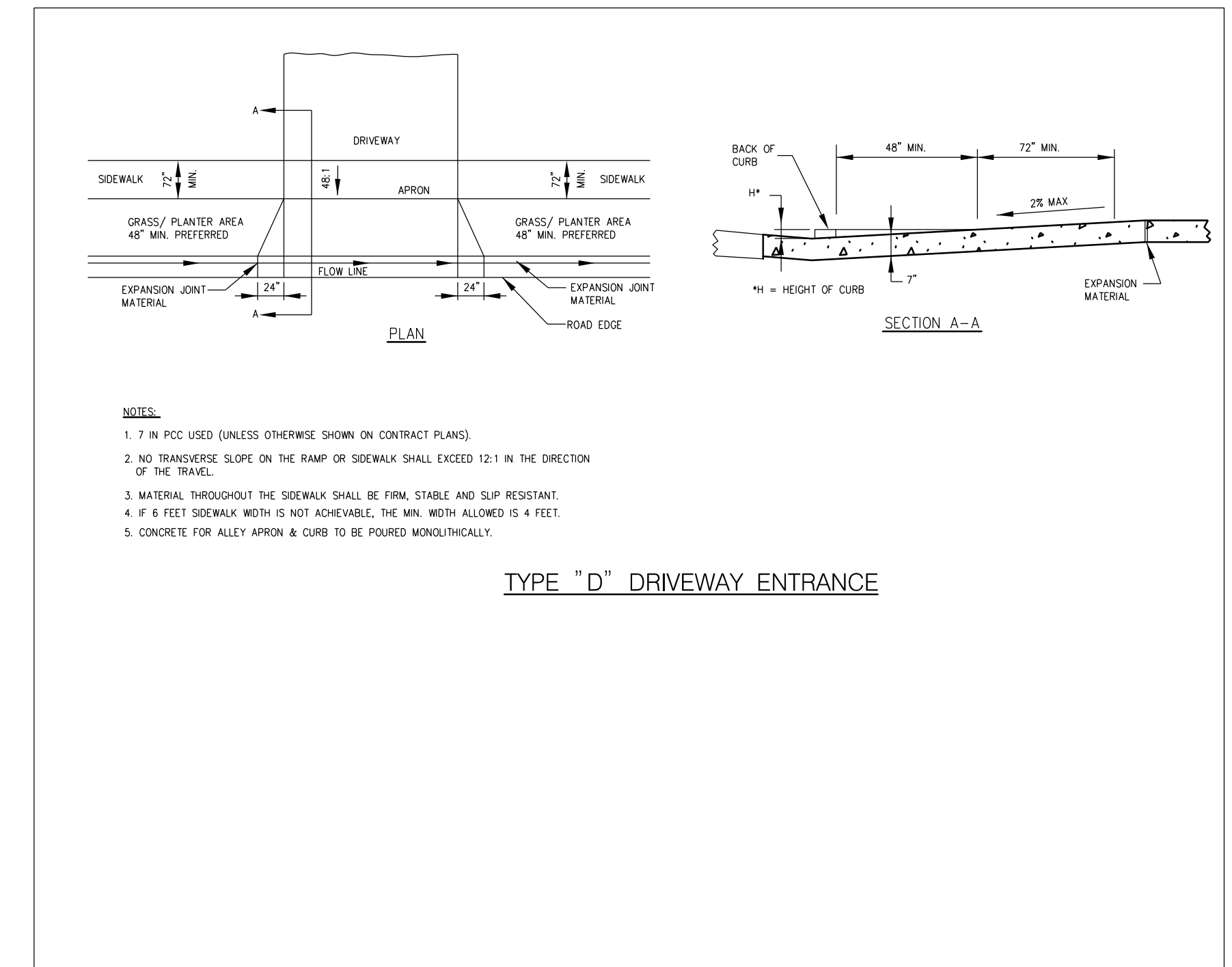
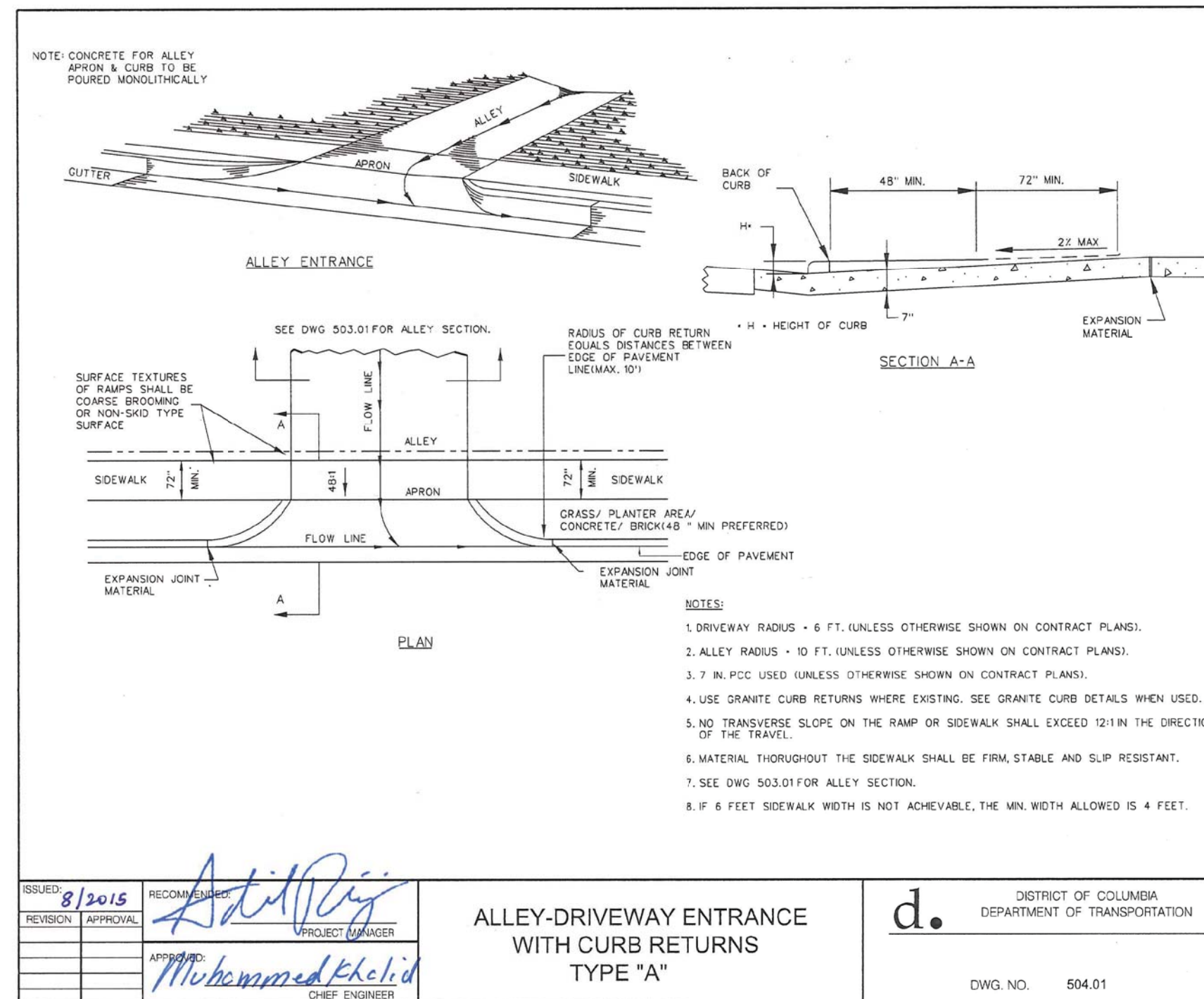
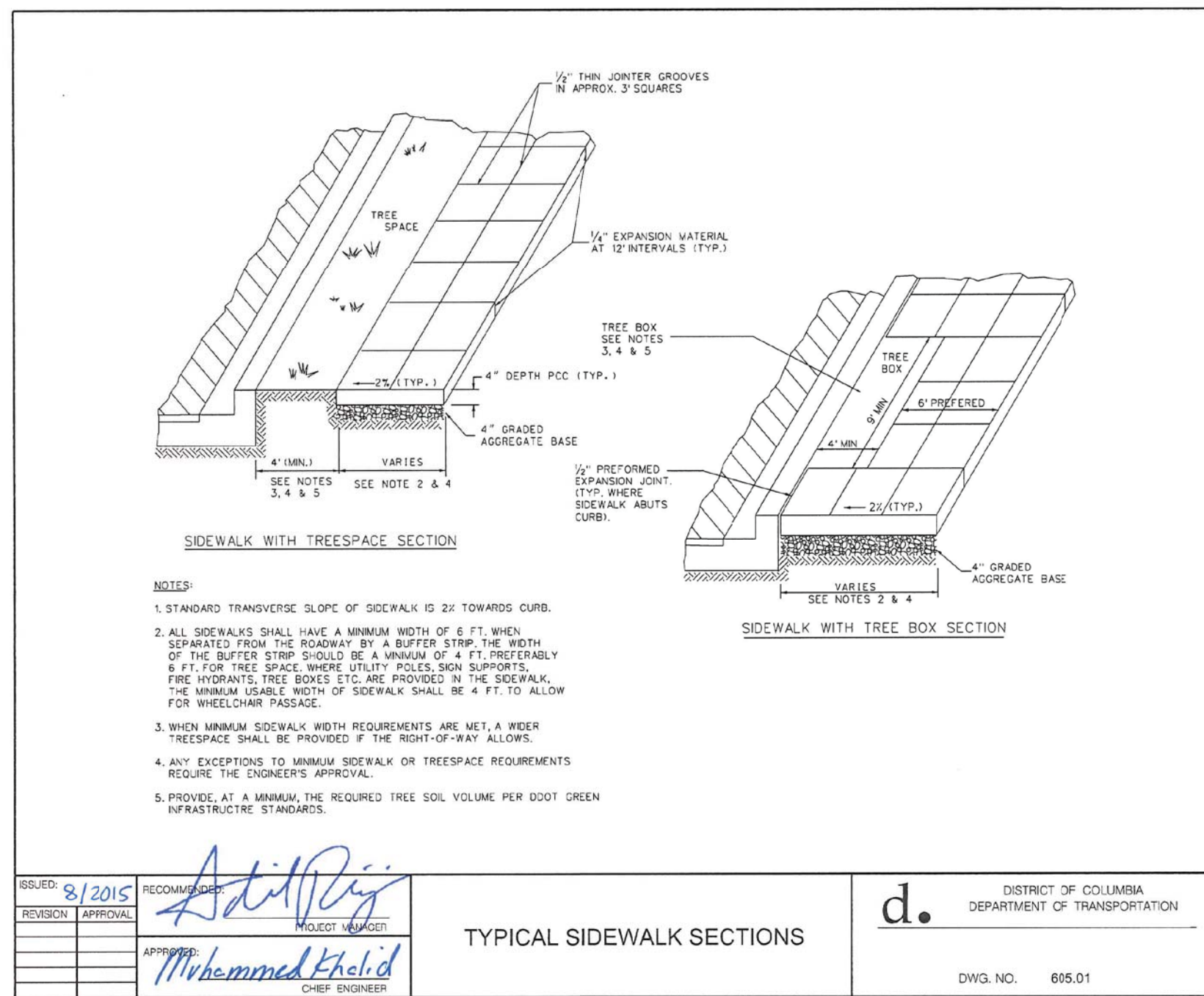
DISTRICT OF COLUMBIA
 FREEDAT K LORINO
 No. PE905129
 12/15/2022
 LICENSED PROFESSIONAL ENGINEER

BAI BRUDIS & ASSOCIATES, INC.
 Consulting Engineers
 11000 Broken Land Parkway Suite 450
 Columbia, Maryland 21044
 Phone 410-884-3607
 www.brudis.com

NO.	DESCRIPTION	NAME	DATE

P:\17-005_DD0T_AE_Schedule_V\Pennsylvania Ave. Potomac Ave Improvements\Drawings\CADD\Working\pdp-001_Penn Ave & Potomac Ave.dgn 11/30/2022

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.	FAP NO. STP - 2018 (009)	40	167



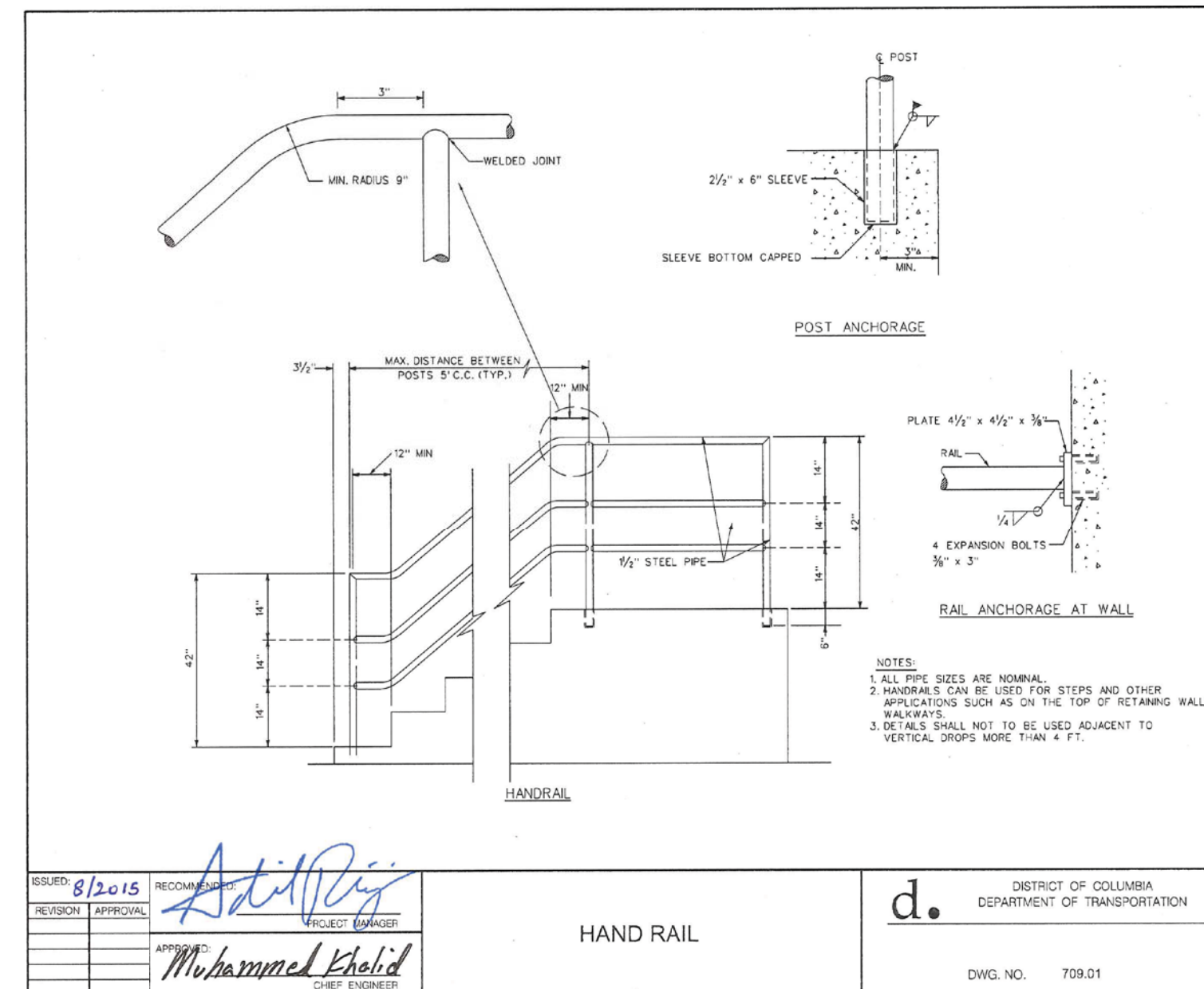
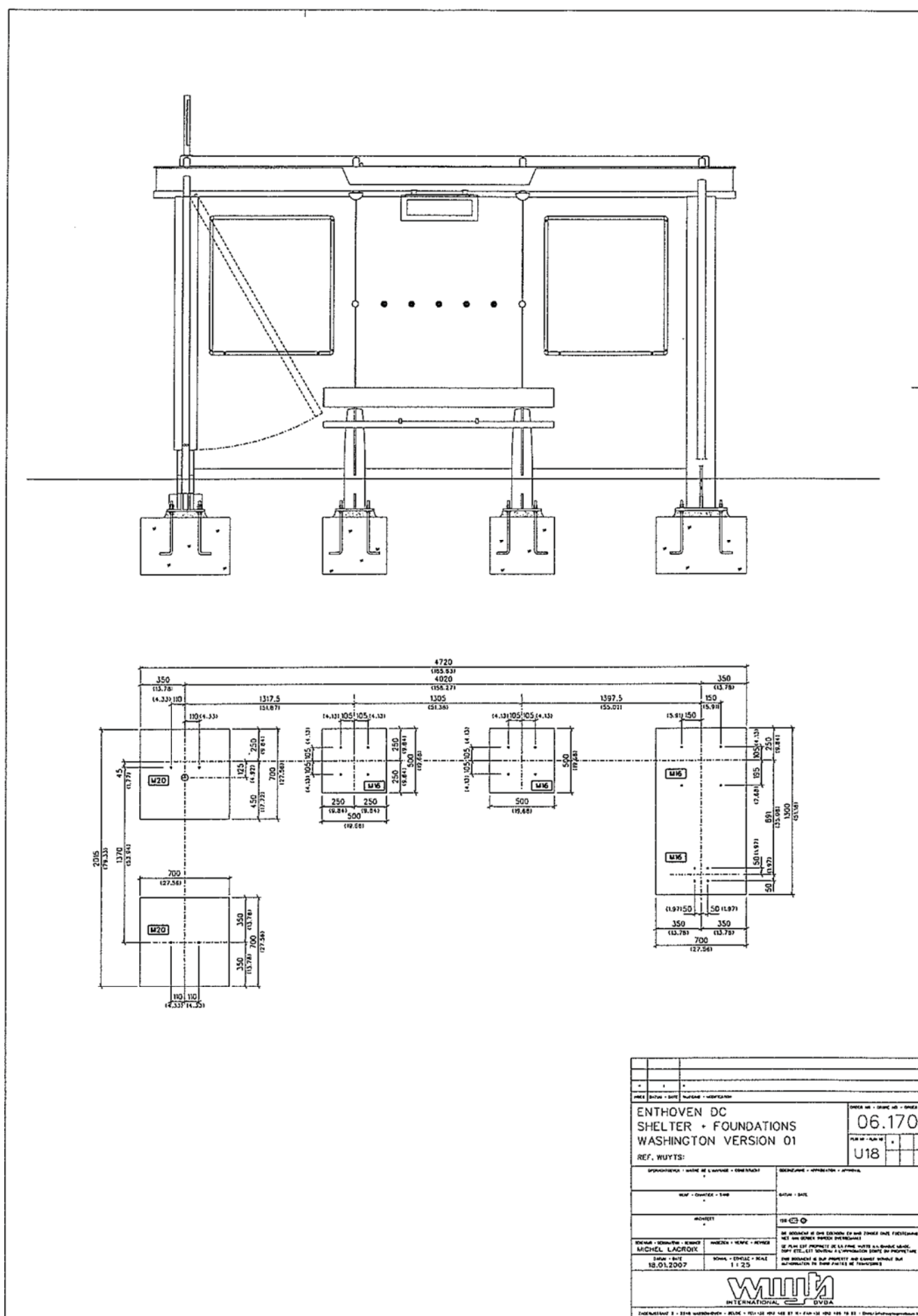
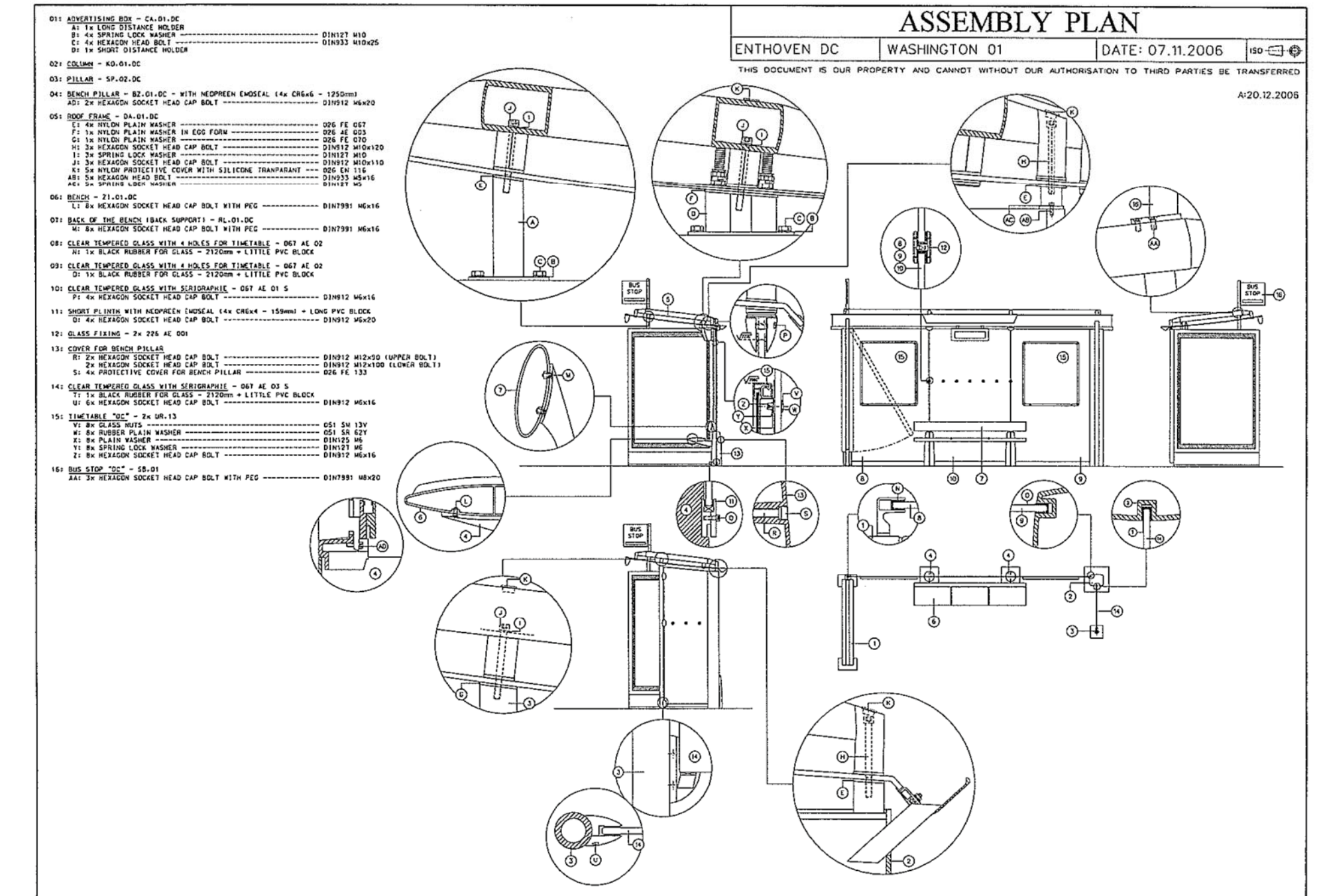
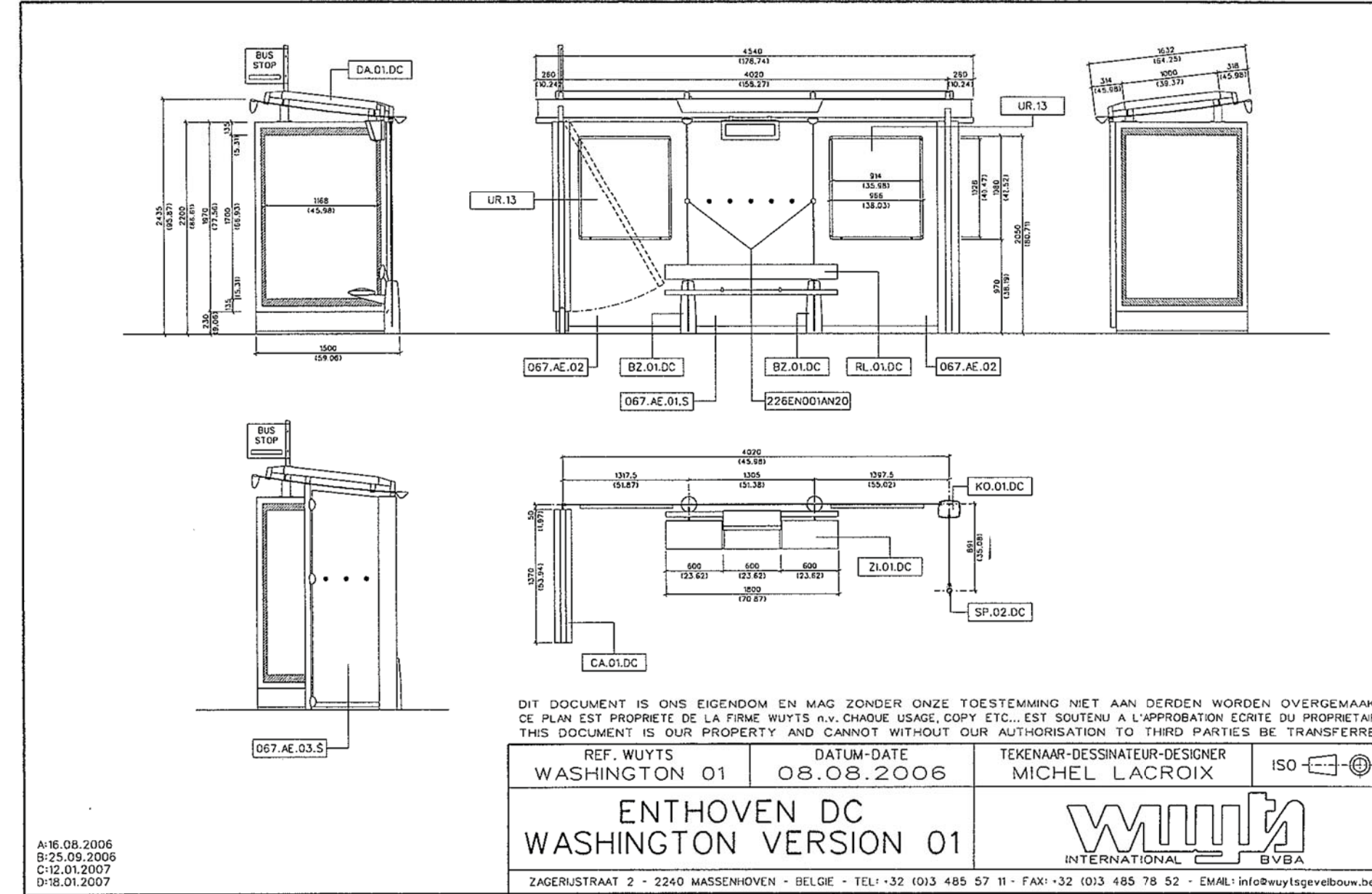
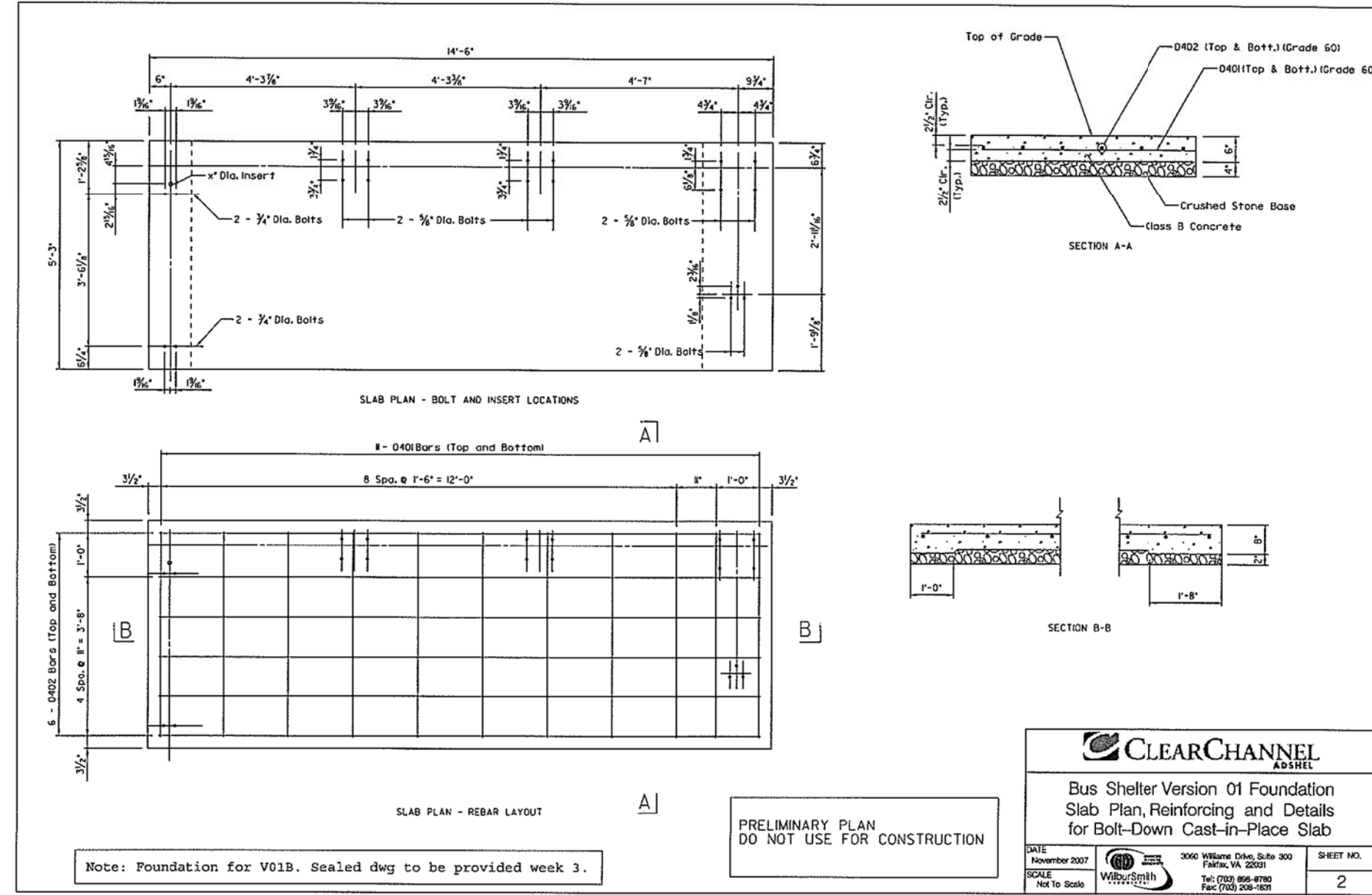
DATED: DECEMBER, 2022	SCALE: NONE	HD-02
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PENNSYLVANIA AND POTOMAC AVE SE INTERSECTION IMPROVEMENT PROJECT		
PROJECT ENG. <u> </u> BK DESIGNED BY <u> </u> BK /RKL CHECKED BY <u> </u> RKL DRAWN BY <u> </u> BK PROJECT MGR. <u> </u> RKL		DIVISION CHIEF
HIGHWAY DETAILS		DATE <u> </u> FILE <u> </u> SHEET 40 OF 167

BAI BRUDIS & ASSOCIATES, INC.
 Consulting Engineers
 11000 Broken Land Parkway Suite 450
 Columbia, Maryland 21044
 Phone 410-884-3607
 www.brudis.com

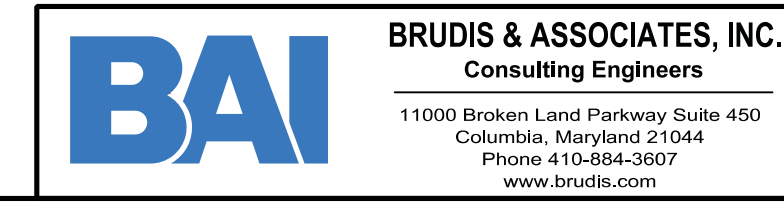
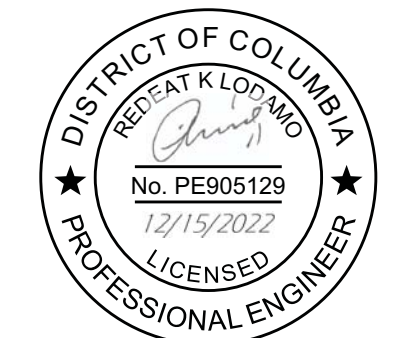
NO.	DESCRIPTION	NAME	DATE

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REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.	FAP NO. STP - 2018 (009)	41	167



ENTHOVEN DC SHELTER - FOUNDATIONS WASHINGTON VERSION 01 REV: 01/18	06.170
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NO.	DESCRIPTION	NAME	DATE

DATED: DECEMBER, 2022	SCALE: NONE	HD-03
D.C. DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT DIVISION		
PENNSYLVANIA AND POTOMAC AVE SE INTERSECTION IMPROVEMENT PROJECT		PROJECT ENG. _____ DESIGNED BY _____ CHECKED BY _____ DRAWN BY _____ PROJECT MGR. _____
HIGHWAY DETAILS		DIVISION CHIEF _____
DATE _____		FILE _____
SHEET 41 OF 167		

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REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.	FAP NO. STP- 2018 (009)	45	167

SHEET INDEX
 LD-001 GENERAL NOTES
 LD-101 TREE PRESERVATION PLAN
 LD-201 MATERIALS PLAN
 LD-301 SECTIONS
 LD-401 PLANTING PLAN ENLARGEMENT
 LD-402 GRADING PLAN ENLARGEMENT
 LD-501 PAVING DETAILS
 LD-502 PAVING DETAILS
 LD-503 FURNISHINGS DETAILS
 LD-520 PLANTING DETAILS
 LD-521 TREE PRESERVATION DETAILS
 LD-522 SOIL VOLUME DETAILS

NOTES
 EXCAVATION OF STRUCTURAL SOIL VOLUME MUST NOT OCCUR WITHIN THE CRITICAL ROOT ZONE (CRZ) OF ANY ADJACENT EXISTING STREET TREE.
 THERE ARE EXISTING MATURE TREES ALONG THESE STREETS. UNLESS OTHERWISE NOTED, ALL EXISTING TREES SHALL BE PRESERVED IN PLACE ACCORDING TO DDOT STANDARD SPECIFICATION 107.12 TREE PROTECTION AND REPLACEMENT.
 THE CONTRACTOR SHALL BE EXTREMELY CAREFUL WHILE WORKING AROUND THESE MATURE TREES AND IS LIABLE IN FIXED LIQUIDATED DAMAGES PER 107.12-B.8.
 CONTRACTOR SHALL CONTACT THE URBAN FORESTRY ADMINISTRATION AT (202) 671-5133 FOR ALL ISSUES CONCERNING TREES.
 TREE PLANTING SHALL COMPLY WITH THE CURRENT VERSION OF THE DISTRICT DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATION FOR HIGHWAY STRUCTURES AND STANDARD DRAWINGS NO. 611.18 AND 611.19.
 DECIDUOUS TREES SHALL BE PLANTED ONLY BETWEEN OCTOBER 15 AND MAY 1 PER THE SPRING AND FALL PLANTING SEASON DATES (STANDARD DRAWING NO. 608.08 AND 608.09).
 PEAT MOSS IS NOT ALLOWED AS A SOIL AMENDMENT.
 TREE STAKING SHALL BE AS PER SECTION 608.02 (2013 DDOT STANDARD SPECIFICATIONS) ONLY 2 STAKES SHALL BE INSTALLED WITH ARBOR TIES. DETAIL AND SPECIFICATION SHALL BE PROVIDED BY UFD.
 NO COMPANION PLANTS NOR GRASS/SOD ARE PERMITTED WITHIN 4' OF NEW OR PRESERVED STREET TREES. FINISH OFF OPEN SOIL AREAS WITH APPROX. 2-3" DOUBLE- OR TRIPLE -SHREDED HARDWOOD MULCH ONLY, BUT DO NOT PLACE UP AGAINST OR MOUND AROUND THE ROOT FLARE.
 CONTRACTOR SHALL CONTACT STEVE MCKINDLEY-WARD AT STEVE.MCKINDLEY-WARD@DC.GOV OR 202.527.5741 WHEN THE TREES ARE READY TO BE PLANTED, PROVIDING AT LEAST 48 HOURS NOTICE.
 DDOT STANDARD SPECIFICATIONS 608 TREES, SHRUBS, VINES AND GROUND COVERS, SECTION 608.2 C, 14 CALLS FOR A 2 YEAR WARRANTY. WEEKLY WATERING IS REQUIRED AS PART OF THE CONTRACTOR'S CONTRACT.
 PROVIDE A MINIMUM OF 1500 CUBIC FEET OF PLANTING SOIL PER PROPOSED TREE, WITHIN ELLIPSE. PLANTING SOIL MUST BE PROVIDED TO MEET THE MINIMUM REQUIRED IN EACH BED. WITHIN STREETSCAPE, STRUCTURAL SOIL UNDER SIDEWALK MUST BE PROVIDED FOR CONFINED TREE PITTS. REFER TO PLANTING PLAN FOR AREAS OF STRUCTURAL SOIL AND LOCATIONS.
 NOTE ALL TREES TO BE INSTALLED A 2- 2.5" CALIPER.

EXISTING TREE INFORMATION

CODE	FACILITY ID	BOTANICAL NAME	DBH (INCHES)	EST. CANOPY SIZE (FEET)	CONDITION	CATEGORY	NOTES
PRESERVE AND PROTECT TREE (DESIGNATED BY "P")							
EX-1	36981-135-3001-0328-000	QUERCUS PALLISTRIS	12.6	18.9	GOOD	Small	
EX-2	36981-135-3001-0549-000	QUERCUS PHELLOS	14.8	22.2	GOOD	Special	
EX-3	36981-135-3001-0557-000	QUERCUS PALLISTRIS	27.3	40.95	GOOD	Special	
EX-5	30140-060-3005-0116-000	QUERCUS PALLISTRIS	33.2	49.8	GOOD	Heritage	
EX-6							NO DATA AVAILABLE FROM DC GIS
EX-7	37189-141-3001-0034-000	ULMUS AMERICANA	24.9	37.35	FAIR	Special	
EX-8	37189-141-3001-0064-000	ULMUS AMERICANA	37.8	56.7	FAIR	Heritage	
EX-9	37189-141-3005-0044-000	ULMUS AMERICANA	29.7		GOOD	Special	DEMOLITION WITHIN TREE LINE WILL NEED TO BE DONE CAREFULLY AND WITH AN ARBORIST'S SUPERVISION. EXTEND TREE PROTECTION FENCING ONCE DEMOLITION IS COMPLETE TO INCLUDE THE ENTIRE CRZ. THIS ENTIRE SIDEWALK AREA MAY NEED POROUS RUBBER PAVING.
EX-10	37189-136-3005-0103-000	ULMUS AMERICANA	25.0	44.55	GOOD	Special	DEMOLITION WITHIN TREE LINE WILL NEED TO BE DONE CAREFULLY AND WITH AN ARBORIST'S SUPERVISION. EXTEND TREE PROTECTION FENCING ONCE DEMOLITION IS COMPLETE TO INCLUDE THE ENTIRE CRZ. THIS ENTIRE SIDEWALK AREA MAY NEED POROUS RUBBER PAVING.
EX-11	36981-140-3001-0000-000	QUERCUS PHELLOS	18.4	27.6	GOOD	Special	
EX-12		LIQUIDAMBAR STYRACIFLUA	2.0	3	EXCELLENT	Small	
EX-13	36981-140-3005-0146-000	QUERCUS COCCINEA	33.6	50.4	FAIR	Heritage	
EX-15	30140-090-3001-0043-000	QUERCUS PALLISTRIS	30.6	45.9	GOOD	Special	
EX-16	37189-133-3005-0391-000	ULMUS AMERICANA	33.0	49.5	GOOD	Heritage	
EX-17	37189-133-3005-0368-000	ACER RUBRUM	10.5	15.75	GOOD	Small	
EX-18	37189-130-3001-0065-000	ULMUS	13.8	20.7	GOOD	Large	
EX-19	36981-135-3005-0507-000	QUERCUS PHELLOS	5	7.5	FAIR	Small	
EX-20 TO EX-27							TREES ON NPS PROPERTY; NO DATA AVAILABLE FROM DC GIS
EX-28 TO EX-41							TREES ON NPS PROPERTY; NO DATA AVAILABLE FROM DC GIS
REMOVE TREE (DESIGNATED BY "R")							
R-1	30140-060-3005-0182-000	QUERCUS RUBRA	11.4	17.1	GOOD	Small	
R-14	36981-140-3005-0090-000	QUERCUS PHELLOS	18.0	27	FAIR	Special	
R-15	36981-140-3005-0084-000	QUERCUS PHELLOS	17.0	25.5	FAIR	Special	
R-2							NO DATA AVAILABLE FROM DC GIS
R-3							NO DATA AVAILABLE FROM DC GIS
R-4	30140-060-3001-0198-000	PLATANUS X. ACERIFOLIA	5.9	8.85	GOOD	Small	
R-5	37189-137-3001-0140-000	LAGERSTROEMIA INDICA	2.5	3.75	GOOD	Small	
R-6							NO DATA AVAILABLE FROM DC GIS
R-7	37189-137-3001-0107-000	ULMUS PARVIFOLIA	2.5	3.75	GOOD	Small	
R-8							NO DATA AVAILABLE FROM DC GIS
R-9							NO DATA AVAILABLE FROM DC GIS
R-10							NO DATA AVAILABLE FROM DC GIS
R-11							NO DATA AVAILABLE FROM DC GIS
R-12	33861-070-3001-0000-000	LAGERSTROEMIA INDICA	2.5	3.75	GOOD	Small	
R-13							NO DATA AVAILABLE FROM DC GIS
R-17	36981-138-3005-0123-000	QUERCUS BICOLOR	1.5	2.25	GOOD	Small	
R-18	37189-134-3001-0129-000	ULMUS AMERICANA	2.5	3.75	EXCELLENT	Small	
R-19	37189-134-3005-0130-000	LIQUIDAMBAR STYRACIFLUA	2.0	3	EXCELLENT	Small	
R-20		QUERCUS PHELLOS	9.1	13.65	GOOD	Small	
R-21	37189-134-3001-0094-000	ULMUS	4.1	6.15	GOOD	Small	
R-22		ULMUS PARVIFOLIA	1.8	2.7	GOOD	Small	
R-23	99999-999-9999-2864-0	QUERCUS RUBRA	23.8	35.7	FAIR	Special	
R-24		PRUNUS VEDOENSIS	2.0	3	DEAD	Small	
R-25	37189-134-3001-0059-000	ULMUS	1.0	1.5	GOOD	Small	
R-26	37189-134-3005-0052-000	ZELKOVA SERRATA	6.3	9.45	GOOD	Small	
R-27		PRUNUS VEDOENSIS	2	3	GOOD	Small	
R-28		PRUNUS VEDOENSIS	2.0	3	GOOD	Small	
R-29	37189-139-3001-0116-000	ULMUS AMERICANA	2.5	3.75	GOOD	Small	
R-30		ULMUS AMERICANA	2.5	3.75	GOOD	Small	
R-31 TO R-47							TREES ON NPS PROPERTY; NO DATA AVAILABLE FROM DC GIS
R-48	36981-140-3005-0052-000	QUERCUS PHELLOS	20.8	31.2	FAIR	Special	
R-49	30140-060-3005-0182-000	QUERCUS RUBRA	11.4	17.1	GOOD	Small	
SOURCE:	DC GIS OPEN DATA, URBAN STREET TREE INVENTORY, DDOT URBAN FORESTRY DIVISION RETRIEVED 21 APRIL 2020						

PLANTING SCHEDULE

SYMBOL	TYPE	CODE	QTY	PLANT NAME
	MAJOR DECIDUOUS TREE	TOB	12	Quercus bicolor
		TOM	4	Quercus macrocarpa sp. macrocarpa
		TUA	11	Ulmus americana 'Jefferson'
		TAG	8	Amelanchier x grandiflora 'Autumn Brilliance'
		TNS	2	Nyssa sylvatica 'Wildfire'
	SHRUBS	SCA	303	Glethra alnifolia Sugarlina 'Crystalina'
		SPF	25	Photinia x fraseri
		GAM	26	Aronia melanocarpa 'Morton'
	TURF/SOD		19,320	SOFT
	BIORETENTION MIX 1	153	153	Amsonia tabernaemontana Carex eburnea Juncus inflexus 'Blue Arrow'
	BIORETENTION MIX 2	56	56	Carex pennsylvanica
	GROUNDCOVER MIX 1	114 265	114 265	Carex pennsylvanica Monarda fistulosa
	GROUNDCOVER MIX 2	102 102 205	102 102 205	Carex pennsylvanica Monarda fistulosa Nepeta x 'Walkers Low'
	GROUNDCOVER MIX 3	138 323	138 323	Carex pennsylvanica Nepeta x 'Walkers Low'
	GROUNDCOVER MIX 4	102 102 203	102 102 203	Allium atropurpureum Allium x 'Purple Sensation' Symphyotrichum novae-angliae
	GROUNDCOVER (SPRING) MIX 5	853	853	Narcissus x 'Mount Hood'

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 Monday, September 12, 2022 AT 04:02 PM
 sfl LDR\VS

LD-001

D.C. DEPARTMENT OF TRANSPORTATION
 INFRASTRUCTURE PROJECT MANAGEMENT DIVISION

PENNSYLVANIA AND POTOMAC AVE SE
 INTERSECTION IMPROVEMENT PROJECT

PROJECT ENG. ER
 DESIGNED BY MM
 CHECKED BY MM
 DRAWN BY CN
 PROJECT MGR. MM/RS

DIVISION CHIEF

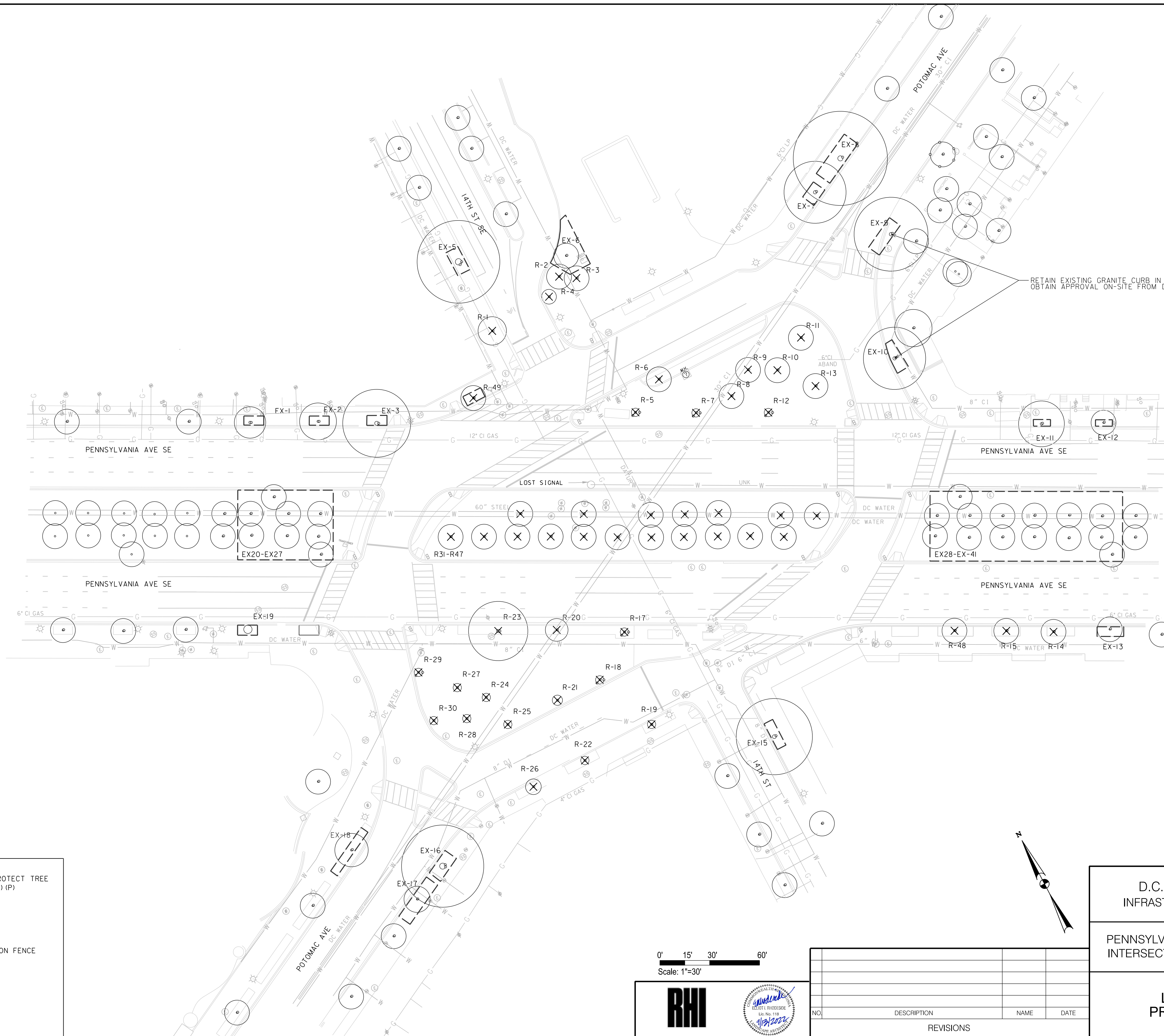
LANDSCAPE GENERAL NOTES

DATE _____
 FILE _____
 SHEET 45 OF 167



NO	DESCRIPTION	NAME	DATE

REVISIONS

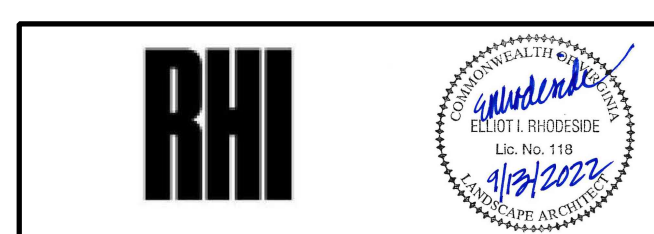


RETAIN EXISTING GRANITE CURB IN PLACE TO MAINTAIN INTEGRITY OF EXISTING ROOT STRUCTURE
OBTAIN APPROVAL ON-SITE FROM DDOT ARBORIST PRIOR TO CONSTRUCTION

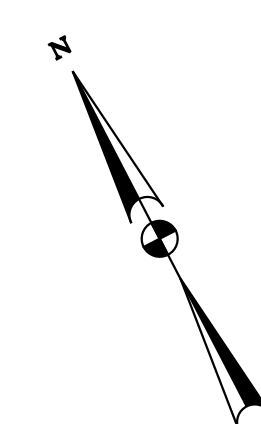
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Monday, September 12, 2022 AT 04:03 PM
\$PENTBLS\$
\$PLDRTVS\$

- PRESERVE AND PROTECT TREE (SEE SHEET LD-01) (P)
- REMOVE TREE (R)
- TREE PRESERVATION FENCE

0' 15' 30' 60'
Scale: 1"=30'



NO.	DESCRIPTION	NAME	DATE
REVISIONS			



LD-101

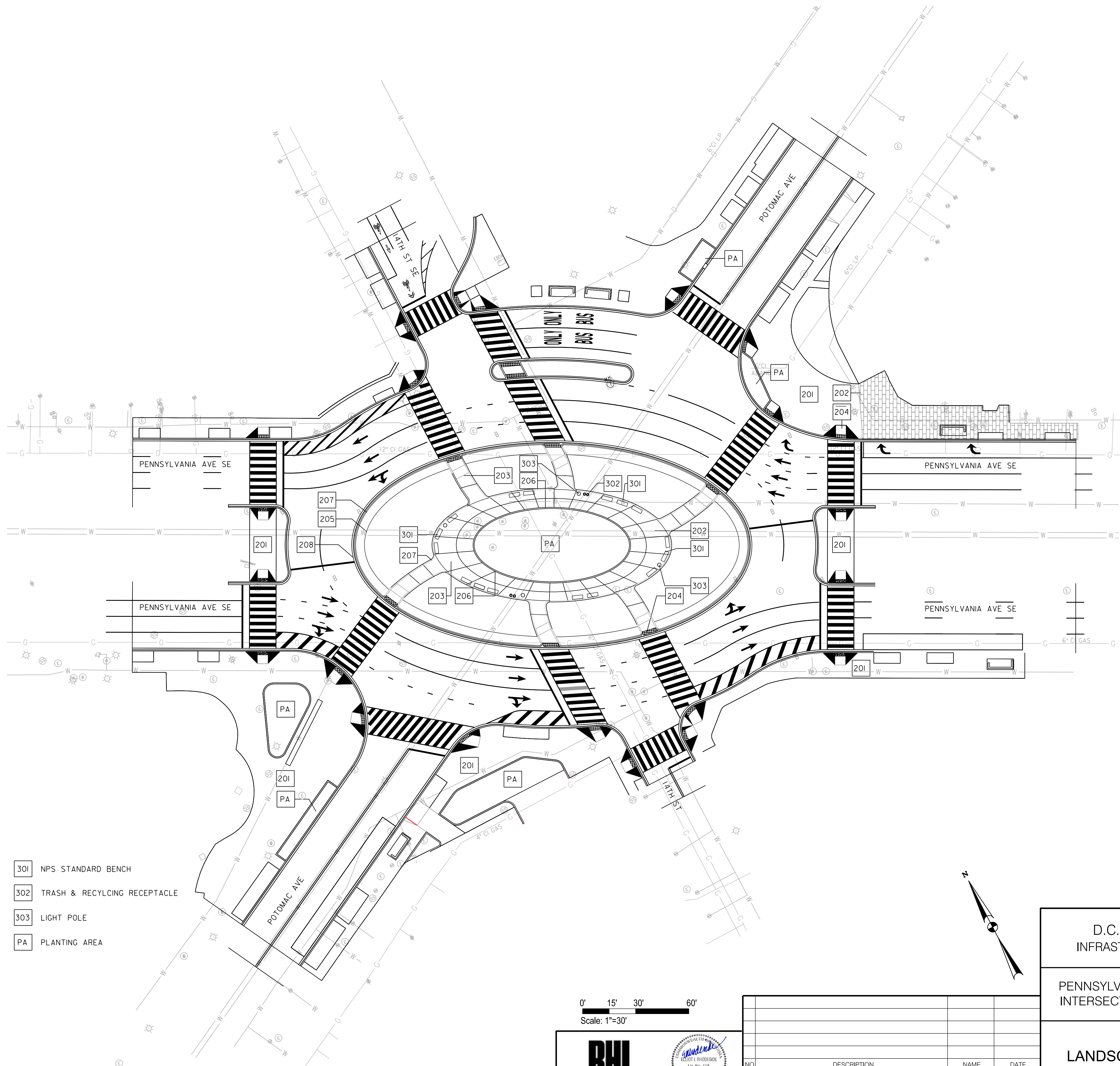
D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT DIVISION

PENNSYLVANIA AND POTOMAC AVE SE
INTERSECTION IMPROVEMENT PROJECT

**LANDSCAPE TREE
PRESERVATION PLAN**

PROJECT ENG. _____ DESIGNED BY <u>ER</u> CHECKED BY <u>MM</u> DRAWN BY <u>CN</u> PROJECT MGR. <u>MM/RS</u>	DIVISION CHIEF DATE _____ FILE _____
SHEET 46 OF 167	

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.	FAP NO. STP- 2018 (009)	47	167



KEYED NOTES

- 201 DDOT STANDARD PEDESTRIAN CONCRETE PAVING, SEE CIVIL DWGS.
- 202 DDOT STANDARD PEDESTRIAN BRICK PAVING, SEE CIVIL DWGS.
- 203 NPS EXPOSED AGGREGATE CONCRETE PAVING
- 204 ADA RAMP, SEE CIVIL DWGS.
- 205 ALUMINUM LANDSCAPE EDGE
- 206 NPS QUARTER ROUND STANDARD EXPOSED AGGREGATE CONCRETE CURB
- 207 FLUSH NPS EXPOSED AGGREGATE PAVING BAND
- 208 DDOT GRANITE CURB AND BRICK GUTTER, SEE CIVIL DWGS.
- 301 NPS STANDARD BENCH
- 302 TRASH & RECYCLING RECEPTACLE
- 303 LIGHT POLE
- PA PLANTING AREA

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 Tuesday, September 13, 2022 AT 04:16 PM
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LD-201

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT DIVISION

PENNSYLVANIA AND POTOMAC AVE SE
INTERSECTION IMPROVEMENT PROJECT

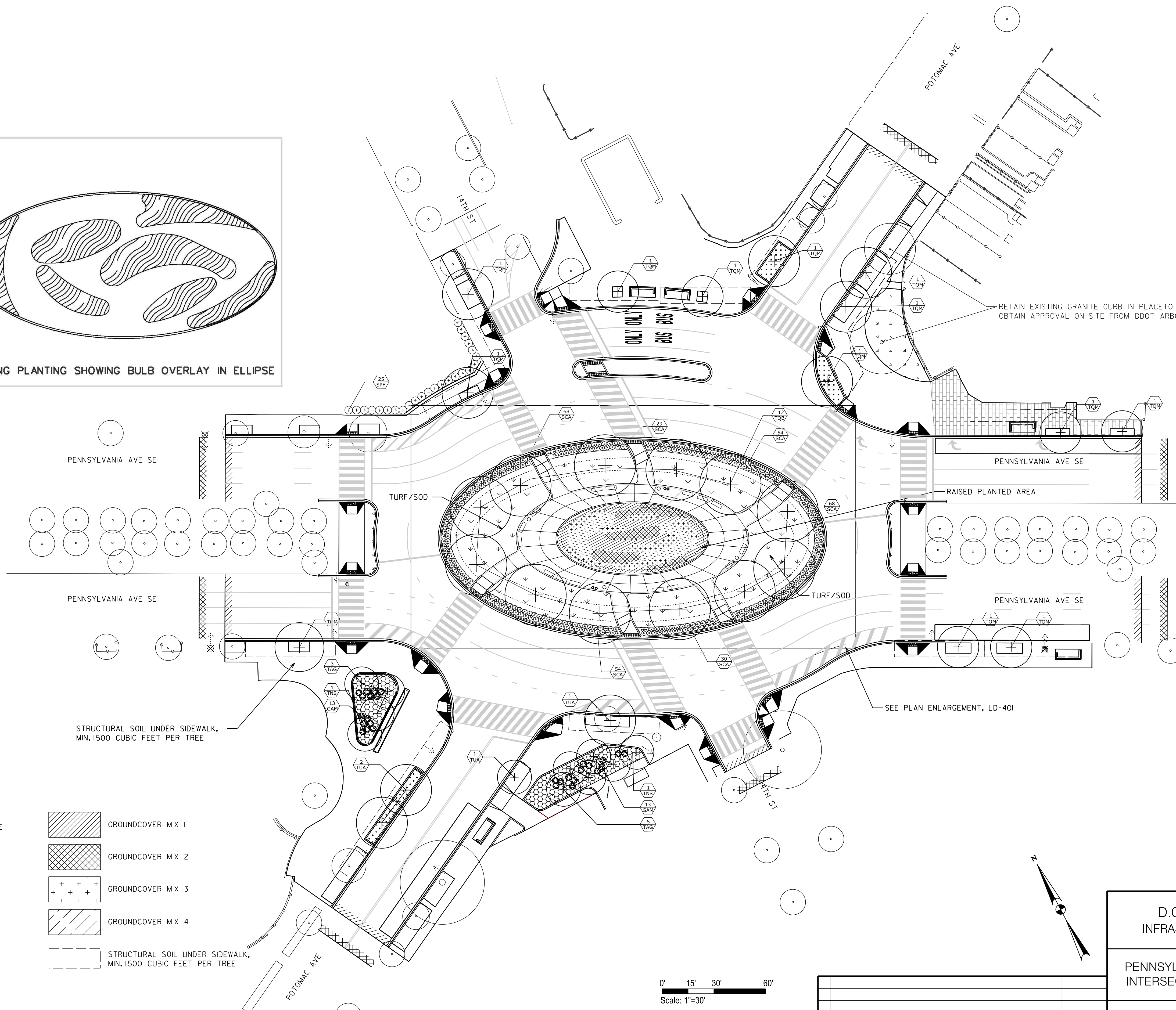
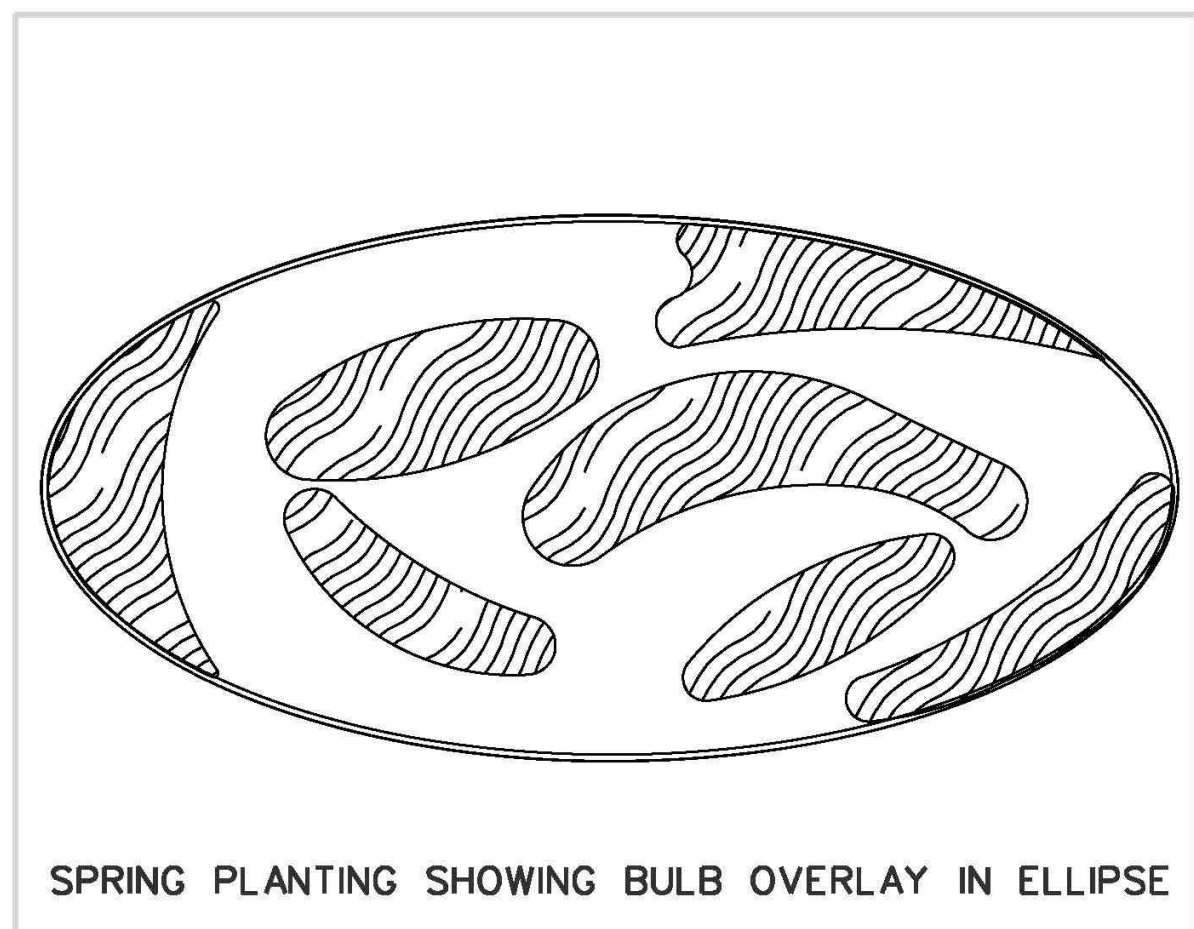
LANDSCAPE MATERIALS PLAN

PROJECT ENG. _____	DESIGNED BY <u>ER</u>
CHECKED BY <u>MM</u>	DRAWN BY <u>CN</u>
PROJECT MGR. <u>MM/RS</u>	DIVISION CHIEF _____
DATE _____	FILE _____
SHEET 47 OF 167	

0' 15' 30' 60'

Scale: 1"=30'

NO.	DESCRIPTION	NAME	DATE
REVISIONS			



RETAIN EXISTING GRANITE CURB IN PLACETO MAINTAIN INTEGRITY OF EXISTING ROOT STRUCTURE
OBTAIN APPROVAL ON-SITE FROM DDOT ARBORIST PRIOR TO CONSTRUCTION

SEE PLAN ENLARGEMENT, LD-401

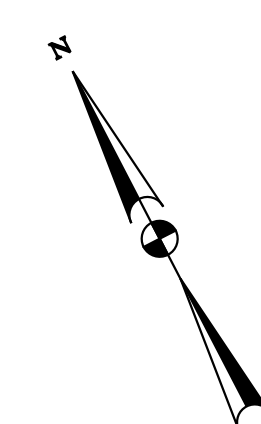
STRUCTURAL SOIL UNDER SIDEWALK,
MIN. 1500 CUBIC FEET PER TREE

- MAJOR DECIDUOUS TREE
- SHRUBS
- TURF/SOD
- BIORETENTION MIX 1
- BIORETENTION MIX 2
- GROUNDCOVER MIX 1
- GROUNDCOVER MIX 2
- GROUNDCOVER MIX 3
- GROUNDCOVER MIX 4
- STRUCTURAL SOIL UNDER SIDEWALK,
MIN. 1500 CUBIC FEET PER TREE

0' 15' 30' 60'
Scale: 1"=30'



NO.	DESCRIPTION	NAME	DATE
REVISIONS			



LD-204

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT DIVISION

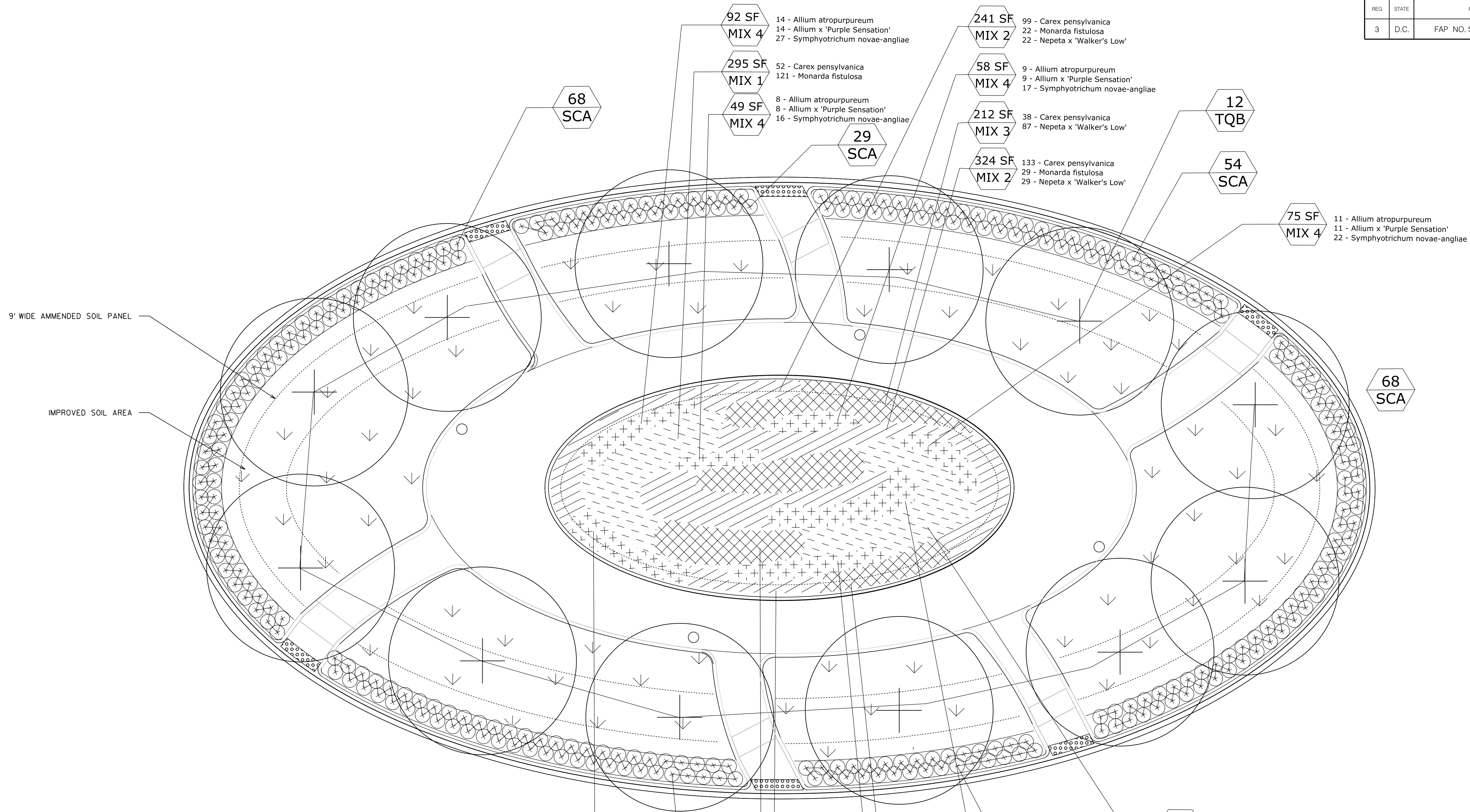
PENNSYLVANIA AND POTOMAC AVE SE
INTERSECTION IMPROVEMENT PROJECT

LANDSCAPE PLANTING PLAN

PROJECT ENG. <u>ER</u> DESIGNED BY <u>MM</u> CHECKED BY <u>MM</u> DRAWN BY <u>CN</u> PROJECT MGR. <u>MM/RS</u>	DIVISION CHIEF DATE _____ FILE _____ SHEET 48 OF 167
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 Tuesday, December 13, 2022 AT 08:31 AM
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REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.	FAP NO. STP- 2018 (009)	50	167



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Tuesday, September 13, 2022 AT 04:37 PM
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	MAJOR DECIDUOUS TREE		GROUNDCOVER MIX 1
	SHRUBS		GROUNDCOVER MIX 2
	TURF /SOD		GROUNDCOVER MIX 3
	BIORETENTION MIX 1		GROUNDCOVER MIX 4
	BIORETENTION MIX 2		

105 SF MIX 4
16 - Allium atropurpureum
16 - Allium x 'Purple Sensation'
31 - Symphyotrichum novae-angliae

93 SF MIX 2
38 - Carex pensylvanica
9 - Monarda fistulosa
9 - Nepeta x 'Walker's Low'

120 SF MIX 3
21 - Carex pensylvanica
49 - Nepeta x 'Walker's Low'

108 SF MIX 4
16 - Allium atropurpureum
16 - Allium x 'Purple Sensation'
32 - Symphyotrichum novae-angliae

157 SF MIX 4
23 - Allium atropurpureum
23 - Allium x 'Purple Sensation'
46 - Symphyotrichum novae-angliae

302 SF MIX 1
53 - Carex pensylvanica
124 - Monarda fistulosa

LD-401

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT DIVISION

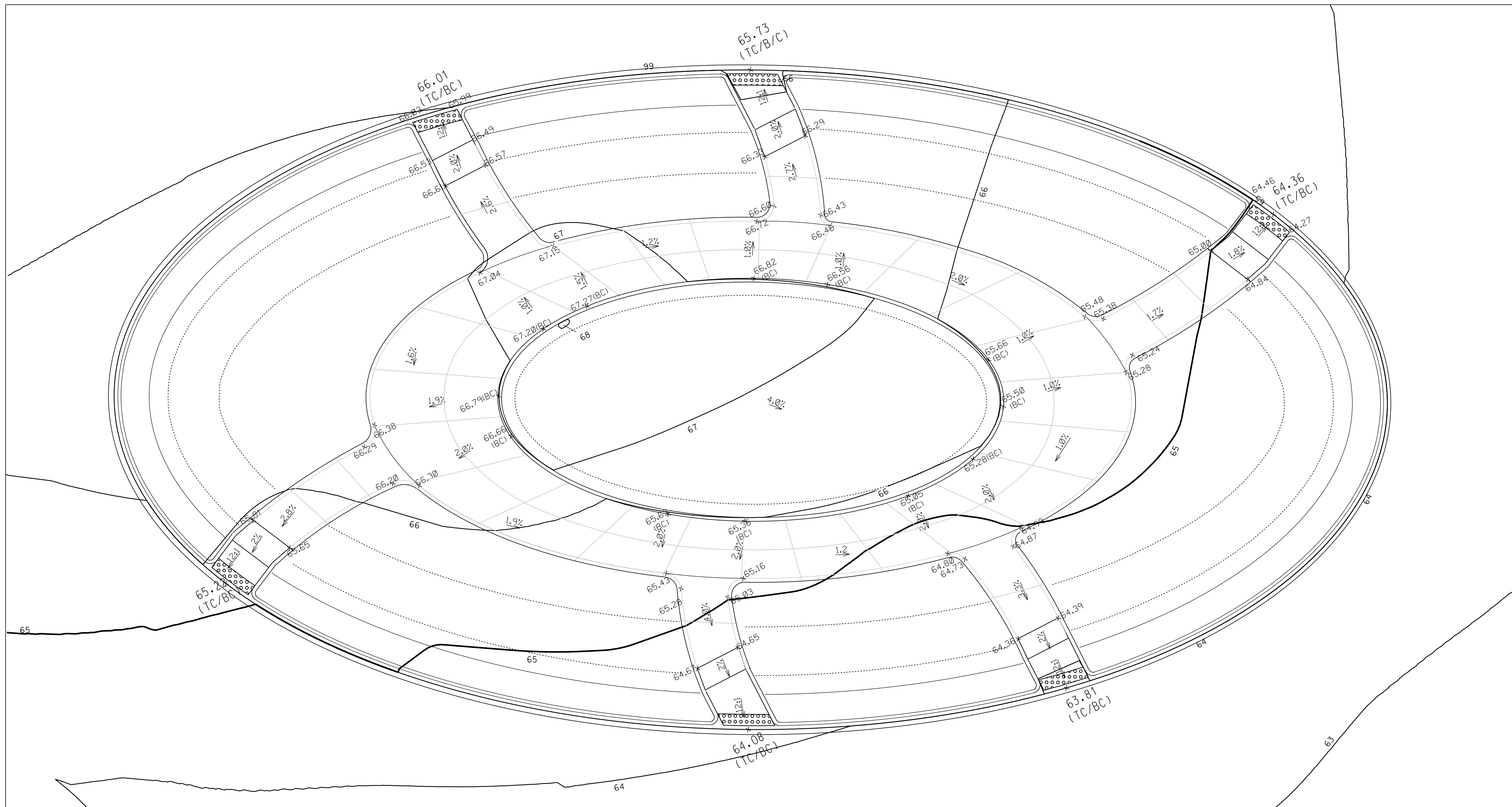
PENNSYLVANIA AND POTOMAC AVE SE
INTERSECTION IMPROVEMENT PROJECT

LANDSCAPE PLANTING PLAN
ENLARGEMENT

PROJECT ENG.	ER
DESIGNED BY	MM
CHECKED BY	MM
DRAWN BY	CN
PROJECT MGR.	MM/RS
DIVISION CHIEF	
DATE	
FILE	
SHEET	50 OF 167



NO.	DESCRIPTION	NAME	DATE
REVISIONS			



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 Tuesday, September 13, 2022 AT 04:27 PM
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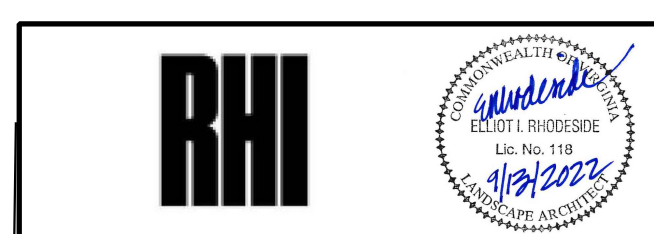
LD-402

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT DIVISION

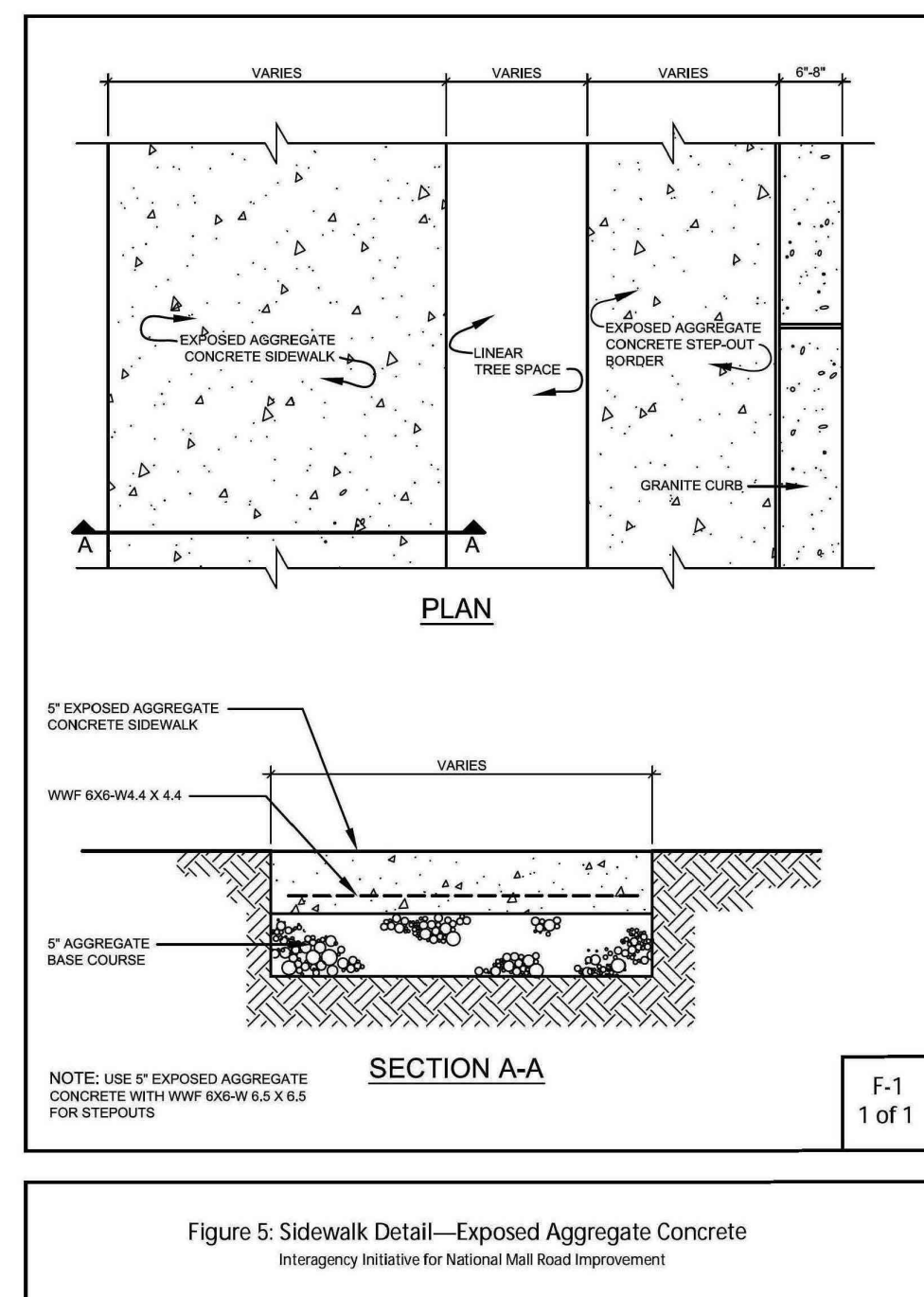
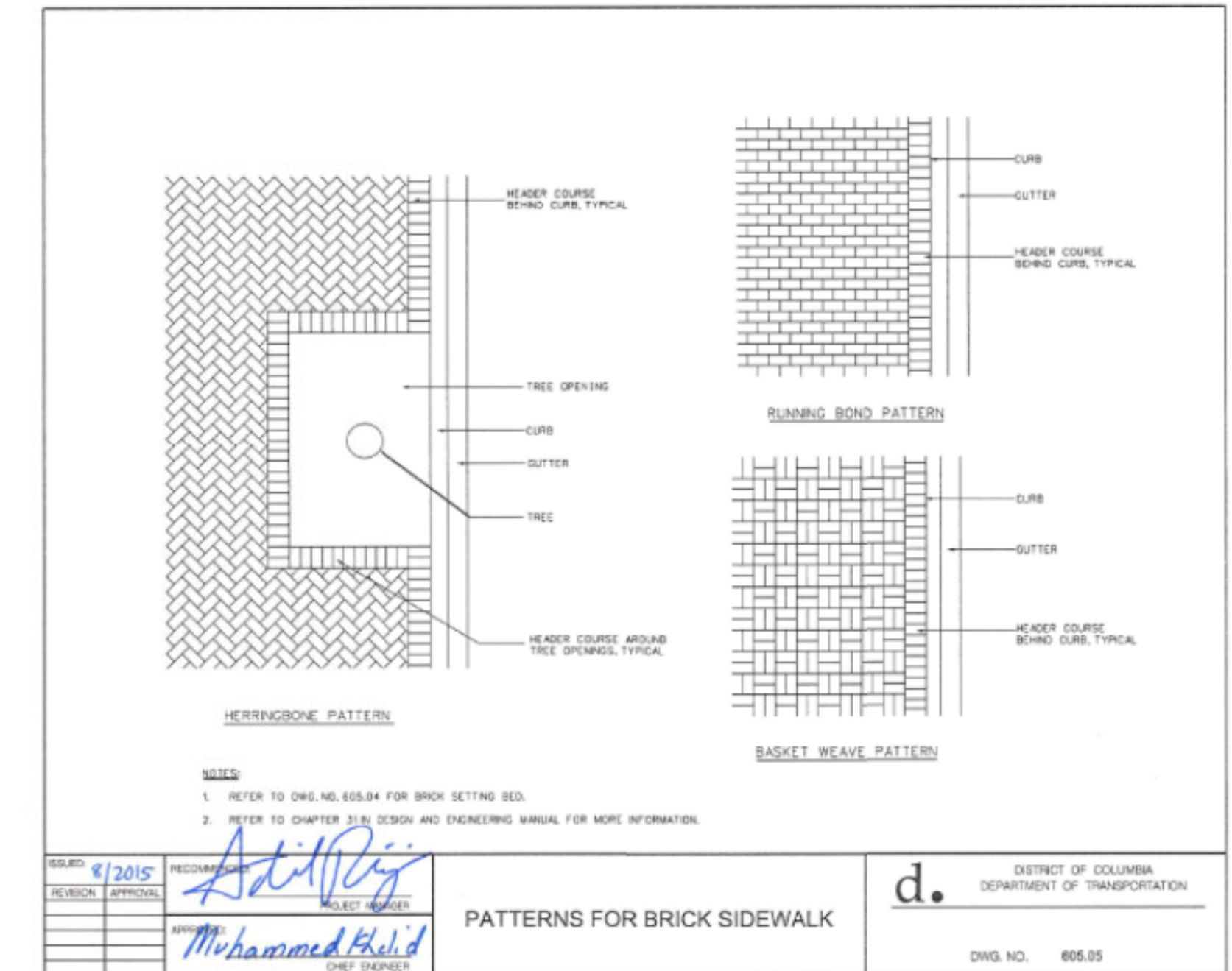
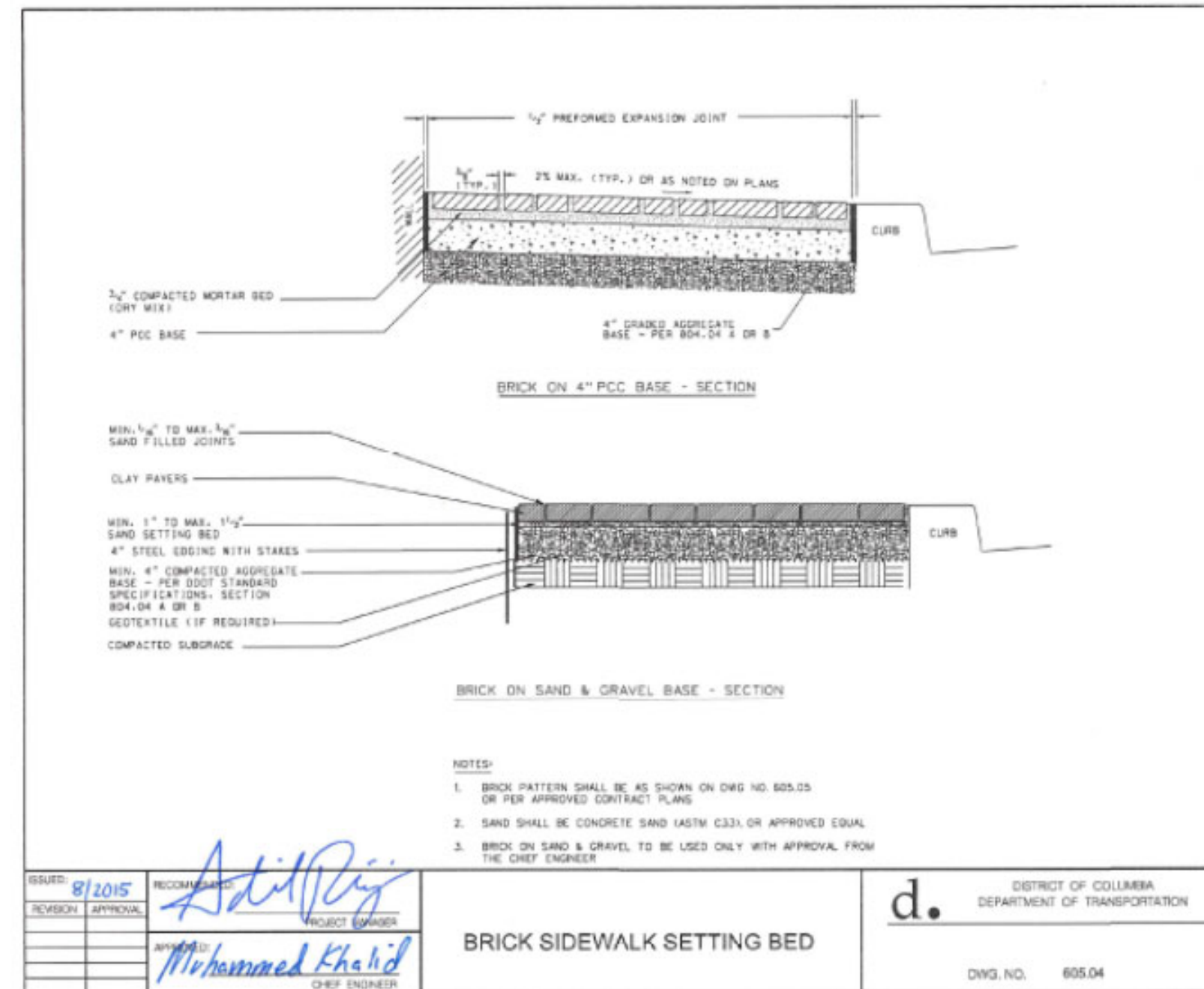
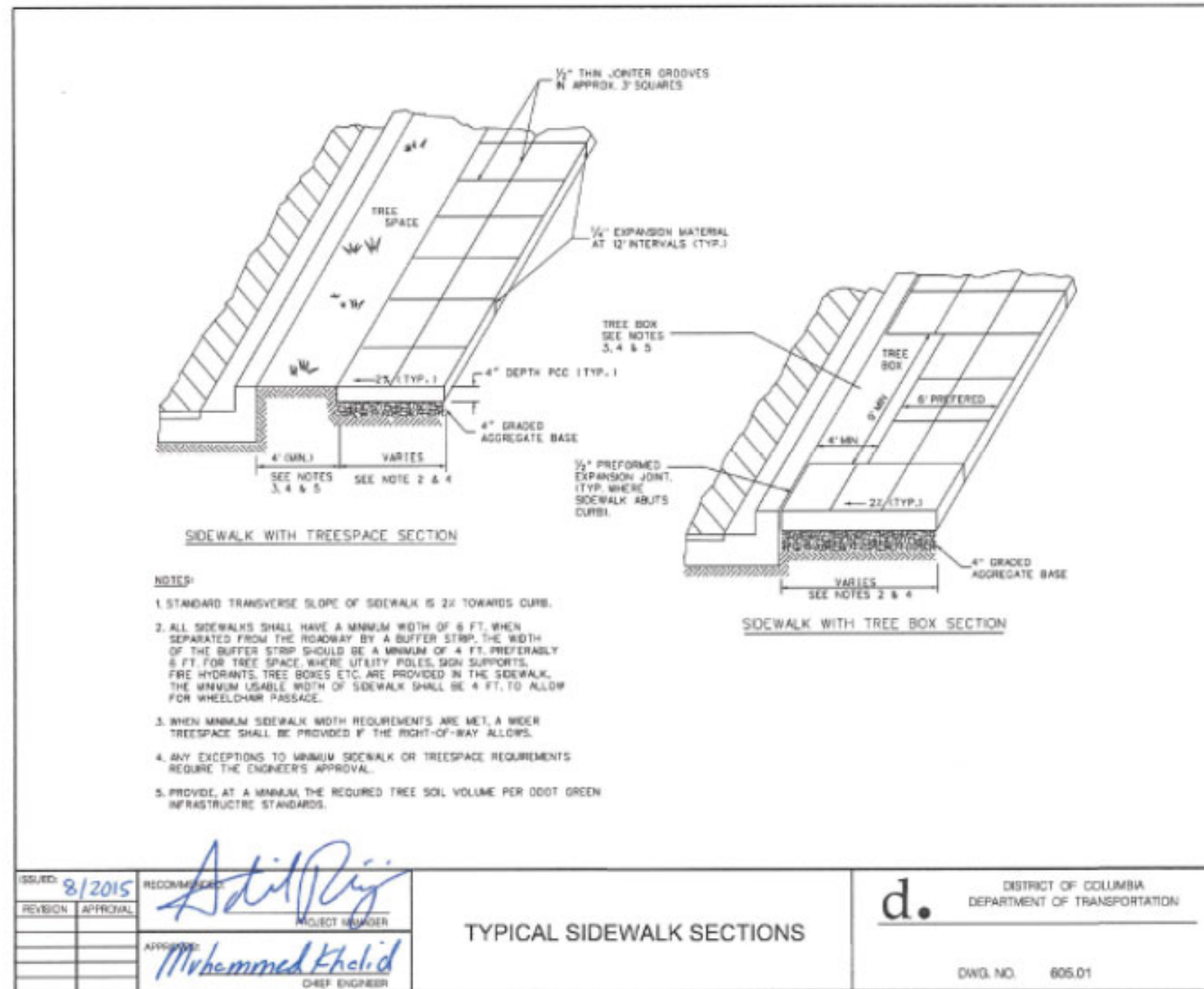
PENNSYLVANIA AND POTOMAC AVE SE
INTERSECTION IMPROVEMENT PROJECT

**PLAN GRADING
ENLARGEMENT**

PROJECT ENG. _____	DESIGNED BY <u>ER</u>
CHECKED BY <u>MM</u>	DRAWN BY <u>CN</u>
PROJECT MGR. <u>MM/RS</u>	DIVISION CHIEF _____
DATE _____	FILE _____
SHEET 51 OF 167	



NO.	DESCRIPTION	NAME	DATE
REVISIONS			



LD-501

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT DIVISION

PENNSYLVANIA AND POTOMAC AVE SE
INTERSECTION IMPROVEMENT PROJECT

PROJECT ENG. ER
DESIGNED BY MM
CHECKED BY MM
DRAWN BY CN
PROJECT MGR. MM/RS

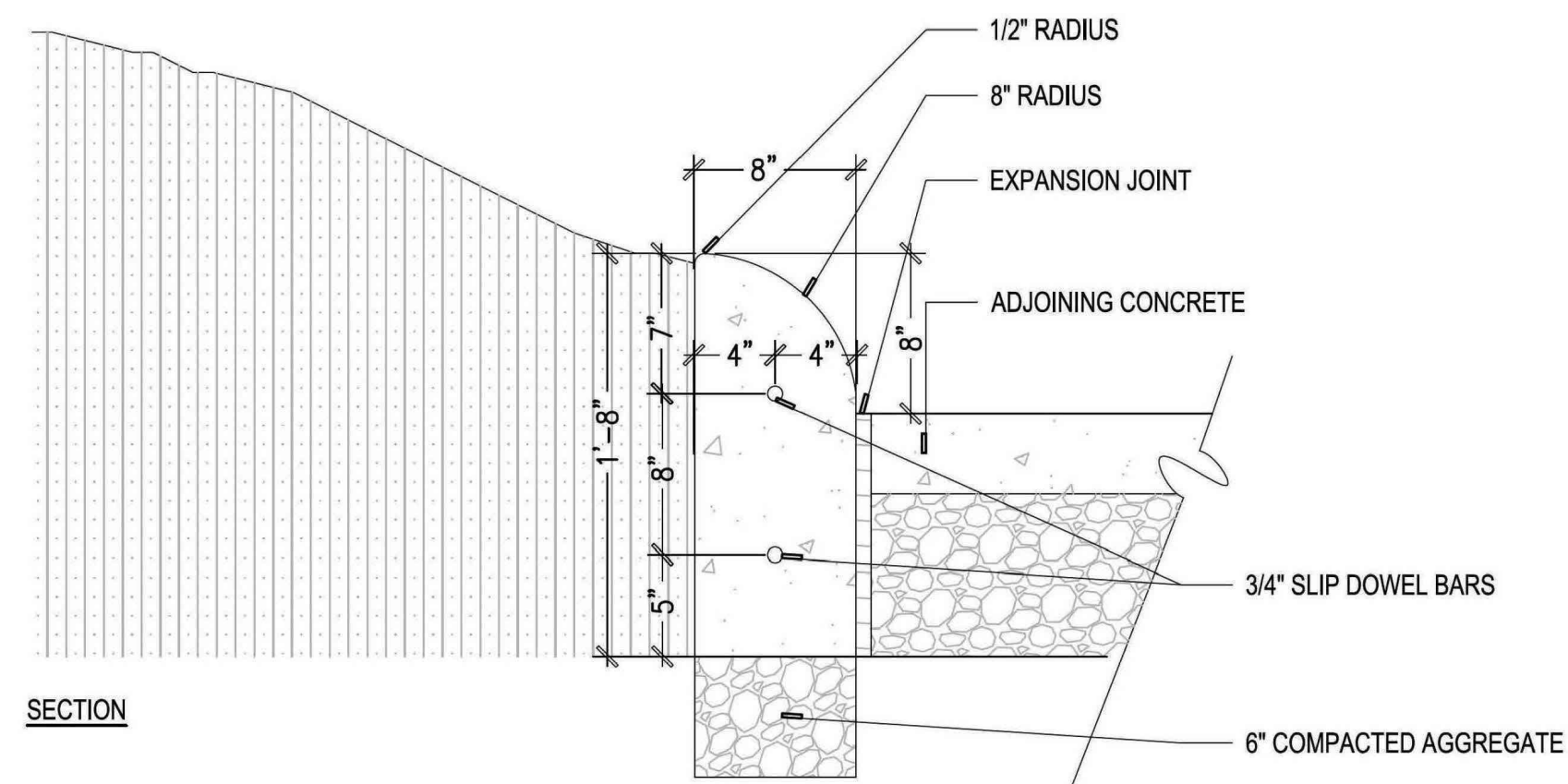
DIVISION CHIEF

LANDSCAPE PEDESTRIAN
PAVING DETAILS

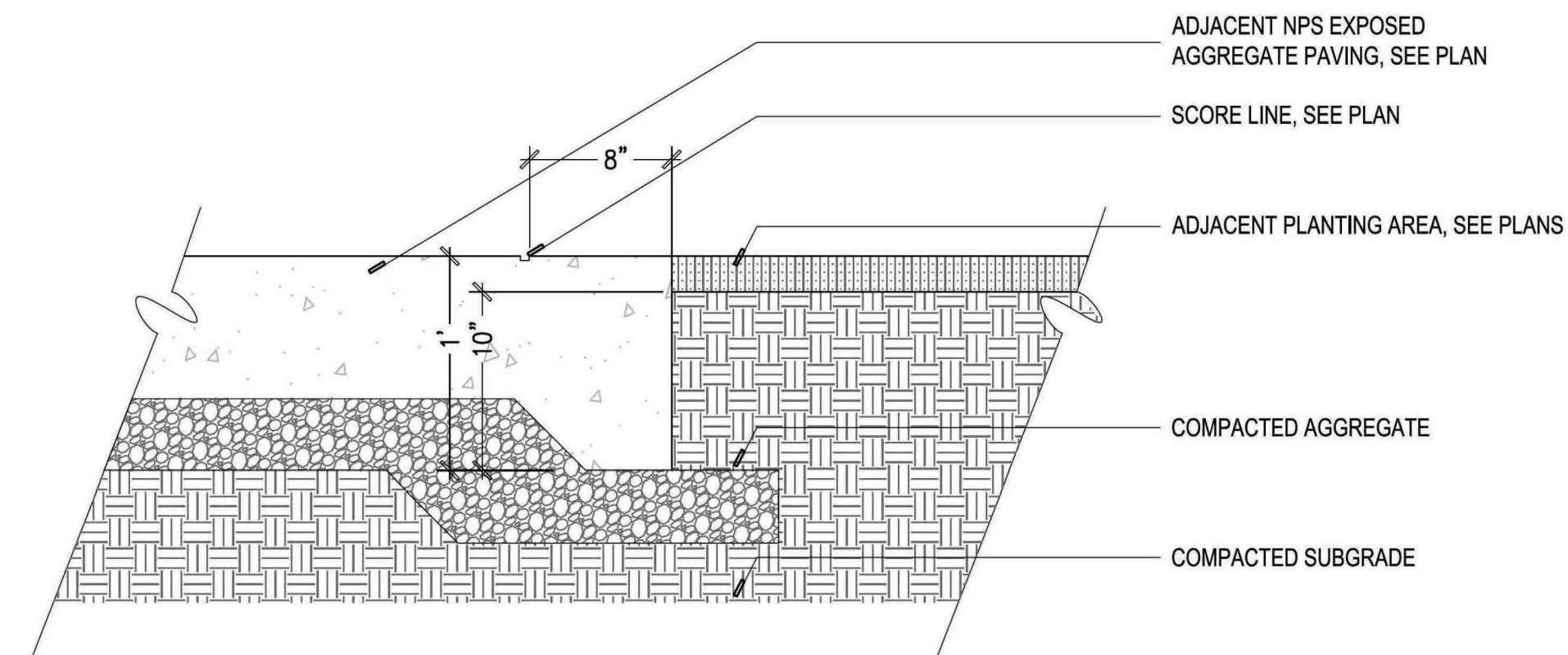
DATE _____
FILE _____
SHEET 52 OF 167

NO.	DESCRIPTION	NAME	DATE

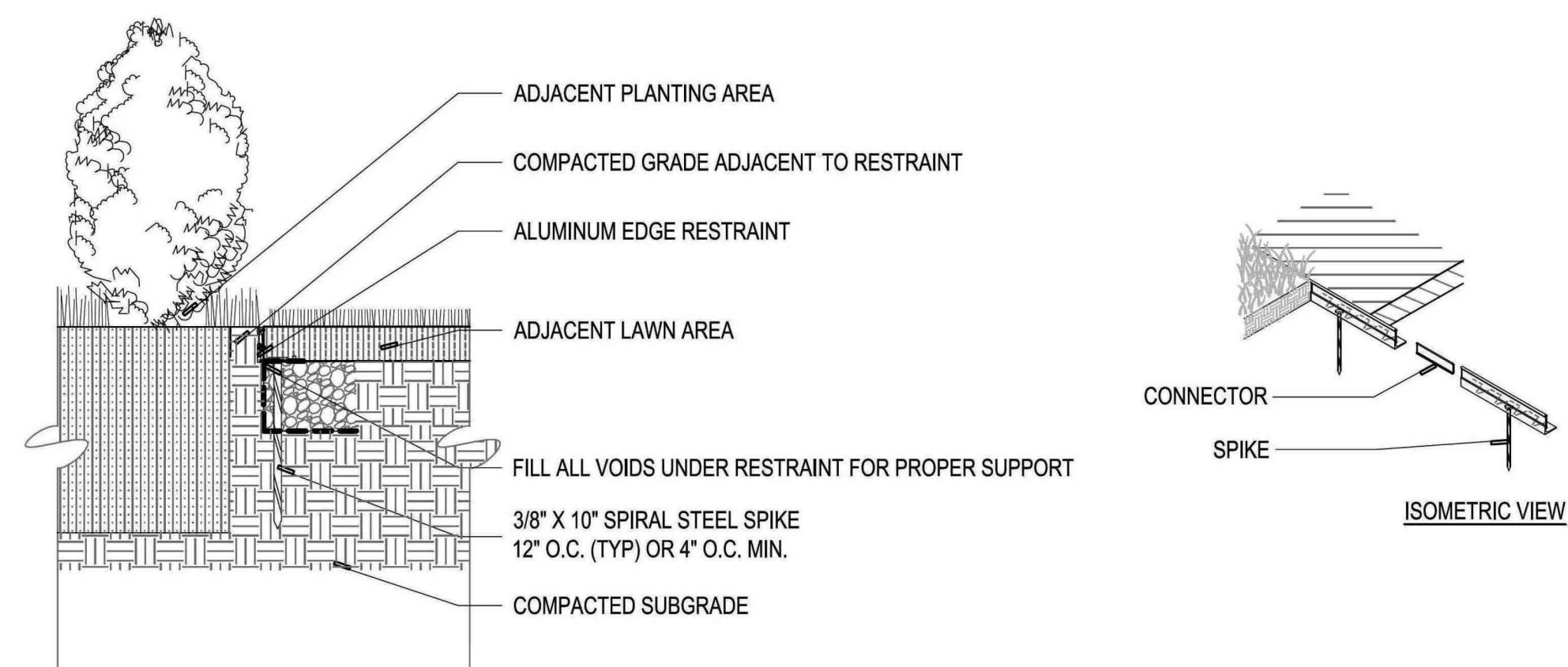




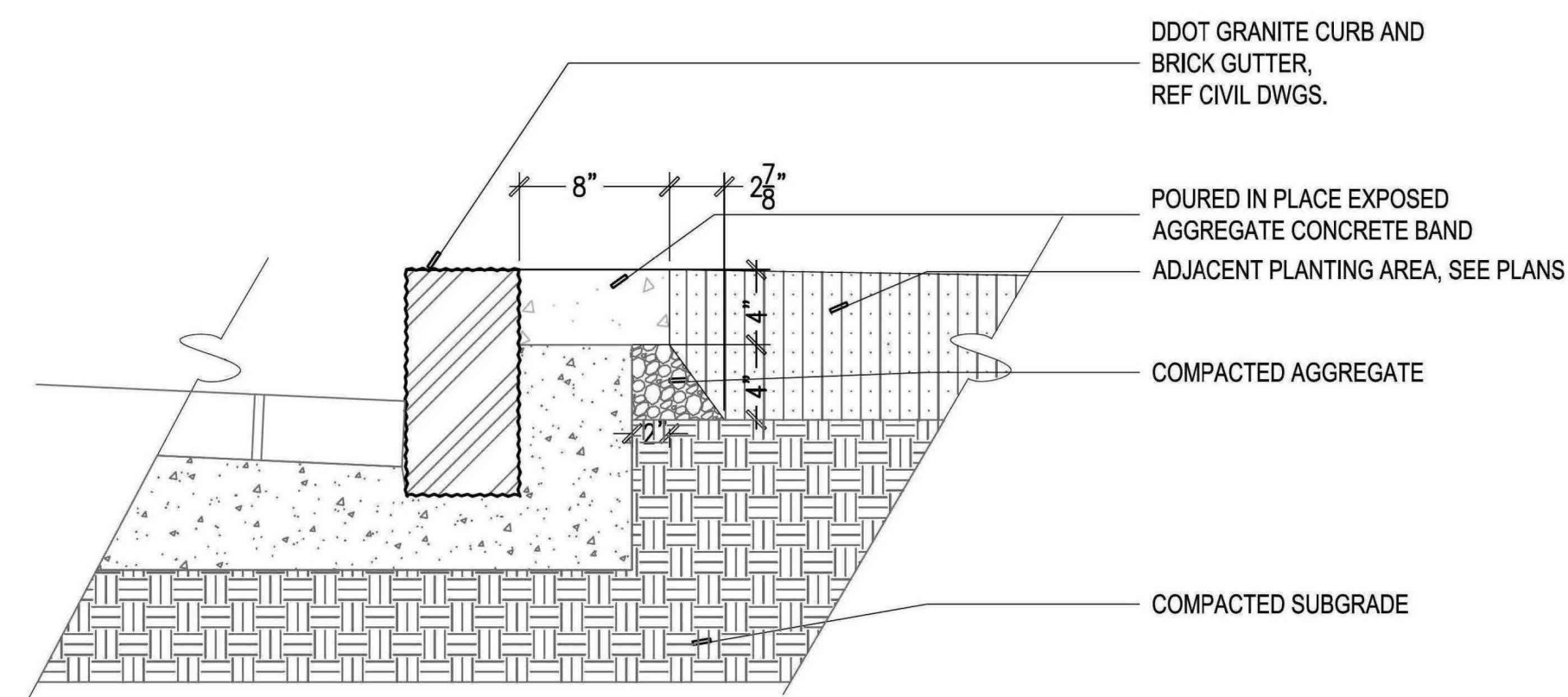
1 NPS QUARTER ROUND EXPOSED AGGREGATE CONCRETE CURB
1-1/2"=1'



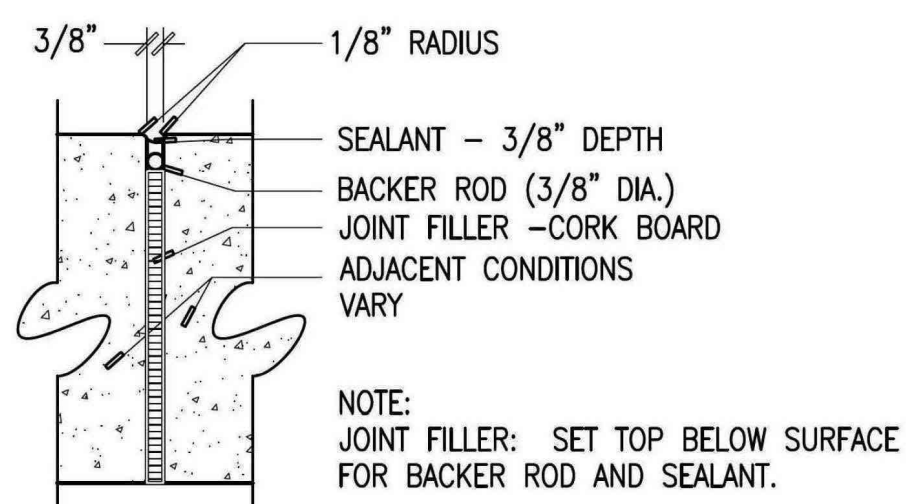
3 EXPOSED AGGREGATE PAVEMENT WITH THICKENED EDGE
1-1/2"=1'



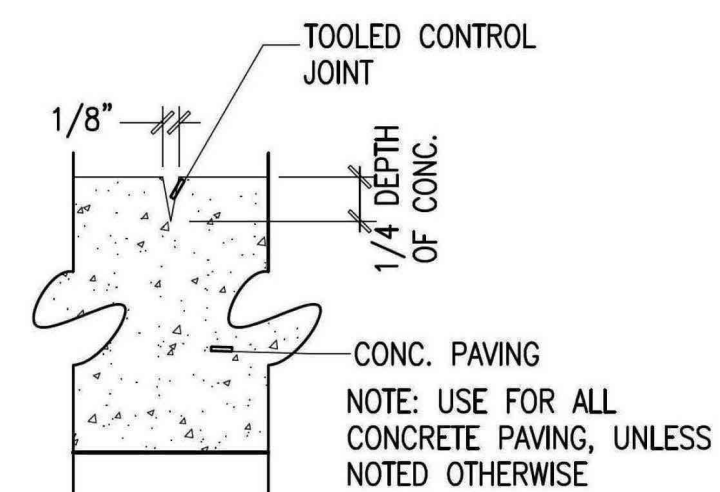
2 ALUMINUM EDGE RESTRAINT
1-1/2"=1'



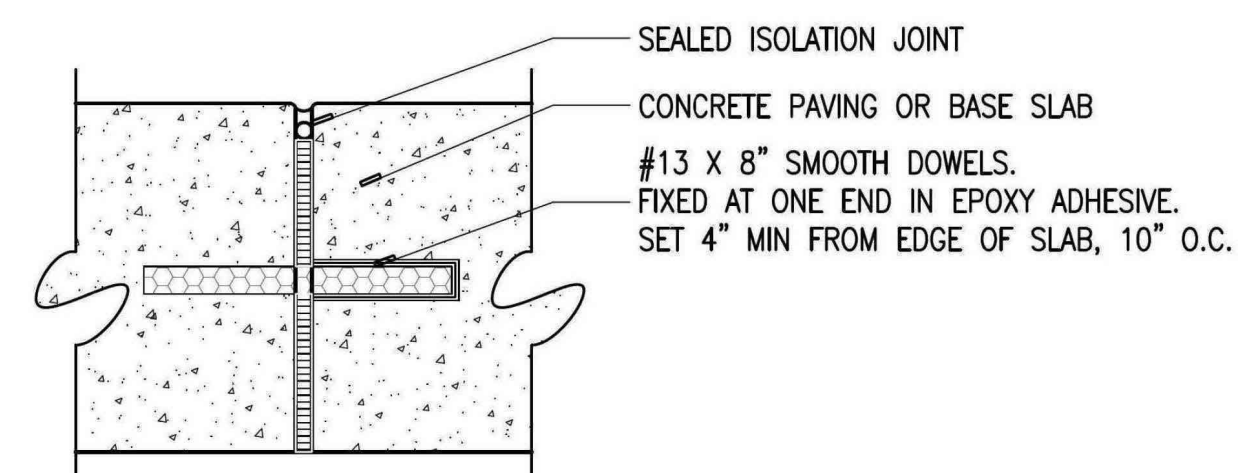
4 EXPOSED AGGREGATE PAVEMENT BAND AT ROAD EDGE
1-1/2"=1'



5 SEALED ISOLATION JOINT (IJ)
3"=1'



6 CONTROL JOINT (CJ)
3"=1'



7 SEALED ISOLATION JOINT WITH DOWEL (IJD)
3"=1'

P:\DDOT Penn Potomac Avenue Intersection 50291A7 CAD\302 DD\LD-502_PAVING DETAILS.dgn Monday, September 12, 2022 AT 04:10 PM SPL/DRL/S

LD-502

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT DIVISION

PENNSYLVANIA AND POTOMAC AVE SE
INTERSECTION IMPROVEMENT PROJECT

PROJECT ENG. _____
DESIGNED BY ER
CHECKED BY MM
DRAWN BY CN
PROJECT MGR. MM/RS

DIVISION CHIEF

PAVING DETAILS

DATE _____
FILE _____
SHEET 53 OF 167



NO.	DESCRIPTION	NAME	DATE

REVISIONS

STANDARD PLANTING DETAILS STREET TREE

ISSUE: 8/2015 RECOMMENDED: Adil Raza PROJECT MGR: Muhammed Khalid

D. DISTRICT OF COLUMBIA DEPARTMENT OF TRANSPORTATION DWG. NO. 608.02

STANDARD PLANTING DETAILS DECIDUOUS TREE

ISSUE: 8/2015 RECOMMENDED: Adil Raza PROJECT MGR: Muhammed Khalid

D. DISTRICT OF COLUMBIA DEPARTMENT OF TRANSPORTATION DWG. NO. 608.03

STANDARD PLANTING DETAILS SHRUBS

ISSUE: 8/2015 RECOMMENDED: Adil Raza PROJECT MGR: Muhammed Khalid

D. DISTRICT OF COLUMBIA DEPARTMENT OF TRANSPORTATION DWG. NO. 608.06

STANDARD PLANTING DETAILS GROUND COVER & PERENNIALS

ISSUE: 8/2015 RECOMMENDED: Adil Raza PROJECT MGR: Muhammed Khalid

D. DISTRICT OF COLUMBIA DEPARTMENT OF TRANSPORTATION DWG. NO. 608.07

Plant Digging Restrictions:
The following trees are Fall digging hazards and should be dug and planted in the spring planting season only.
1. Nysa sylvatica 2. Quercus bicolor 3. Quercus macrocarpa

PLANTING & PLANT ESTABLISHMENT PERIODS SPRING PLANTING SEASON

ISSUE: 8/2015 RECOMMENDED: Adil Raza PROJECT MGR: Muhammed Khalid

D. DISTRICT OF COLUMBIA DEPARTMENT OF TRANSPORTATION DWG. NO. 608.08

Plant Digging Restrictions:
The following trees are Fall digging hazards and should be dug and planted in the spring planting season only.
1. Nysa sylvatica 2. Quercus bicolor 3. Quercus macrocarpa

PLANTING & PLANT ESTABLISHMENT PERIODS FALL PLANTING SEASON

ISSUE: 8/2015 RECOMMENDED: Adil Raza PROJECT MGR: Muhammed Khalid

D. DISTRICT OF COLUMBIA DEPARTMENT OF TRANSPORTATION DWG. NO. 608.09

NOTE: FOR ALL ELLIPSE PLANTING, REFER TO NOTES 1,2,3 SHOWN IN DDOT STANDARD DWG 621.74. DETERMINE SOIL SURFACE INFILTRATION RATE AND UTILIZE THE SAND DRAINAGE LAYER ACCORDING TO SUBSURFACE INFILTRATION REQUIREMENTS.

LD-520

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT DIVISION

PENNSYLVANIA AND POTOMAC AVE SE INTERSECTION IMPROVEMENT PROJECT

PROJECT ENG. _____
DESIGNED BY: ER
CHECKED BY: MM
DRAWN BY: CN
PROJECT MGR: MM/RS

DIVISION CHIEF

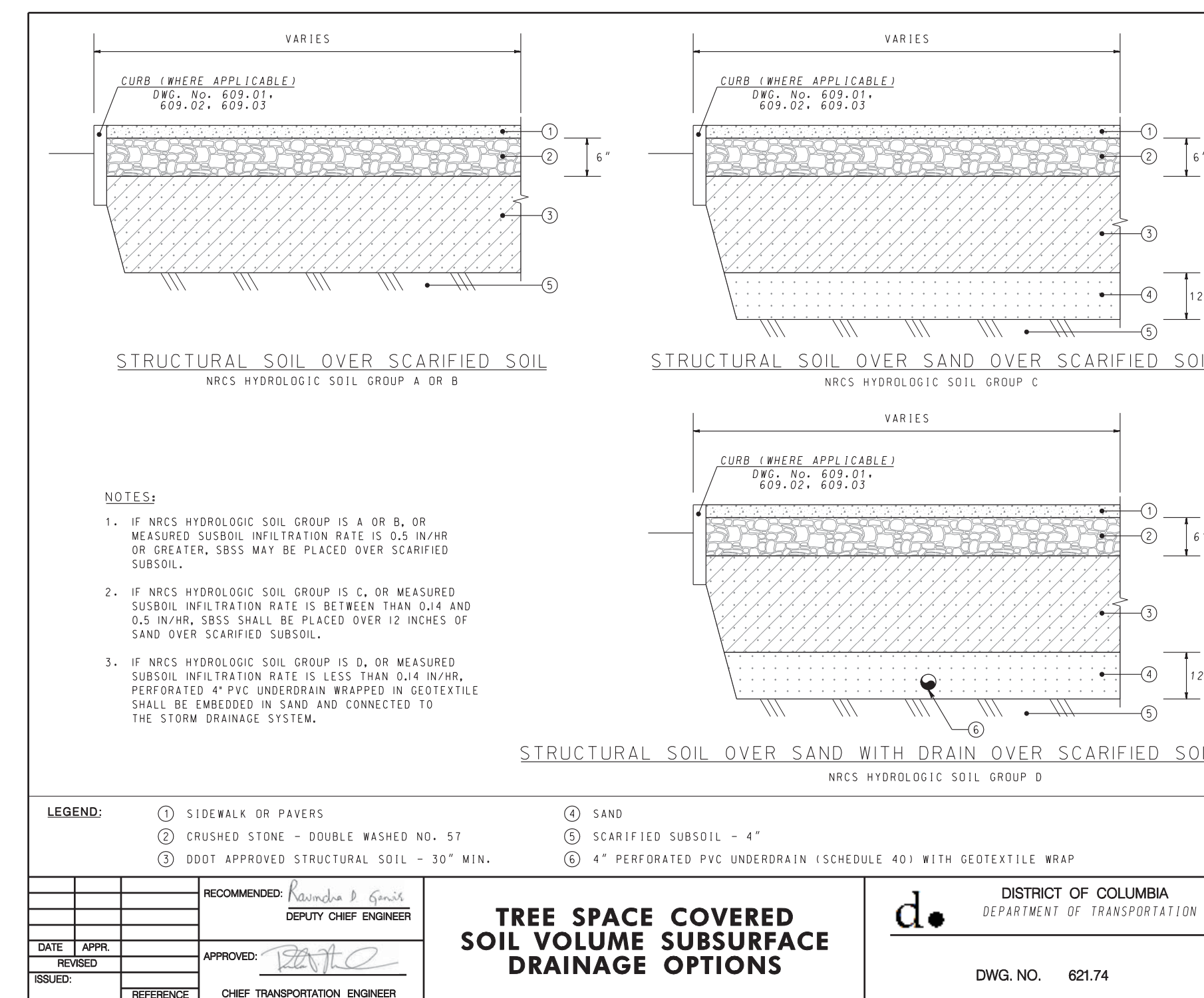
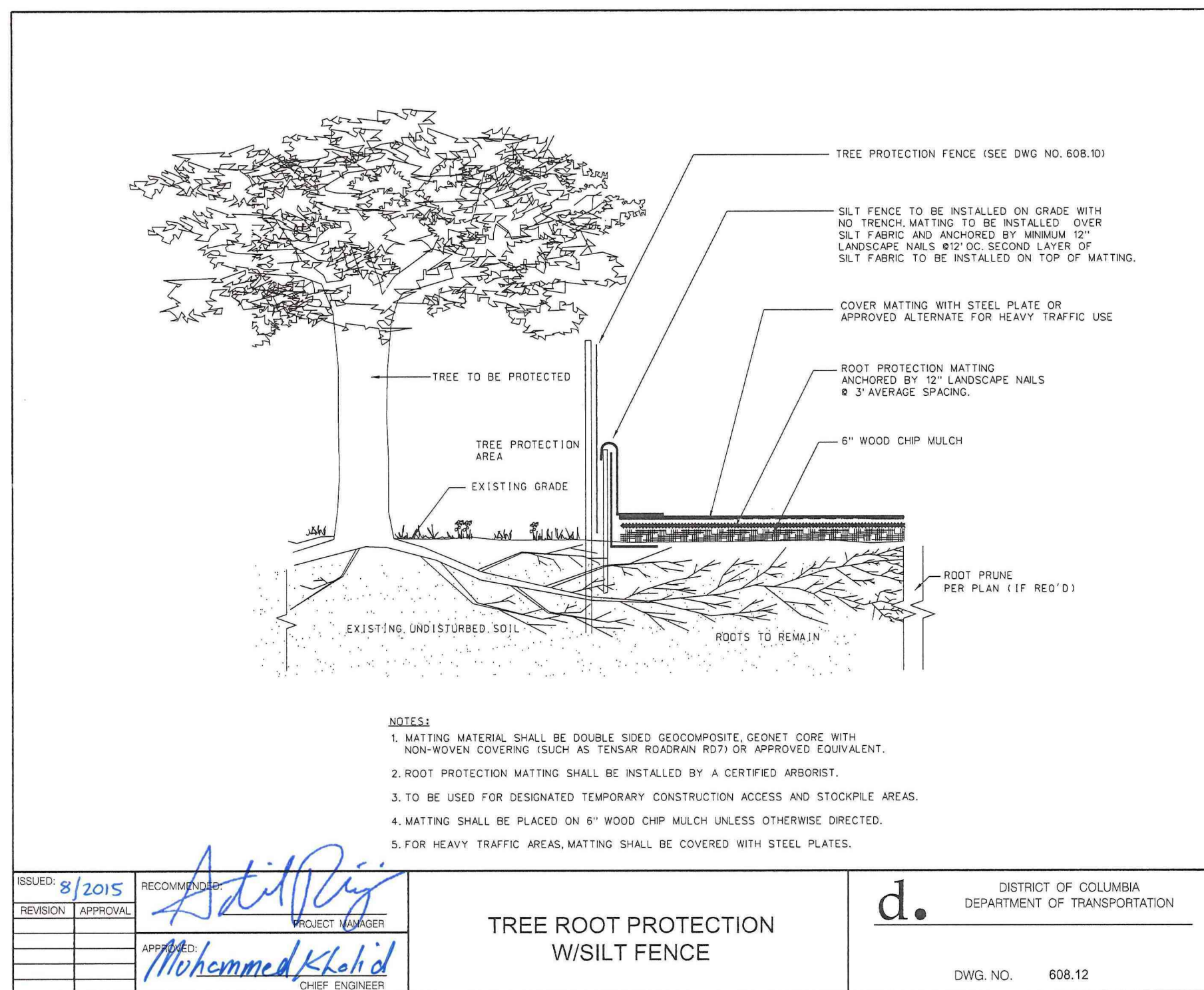
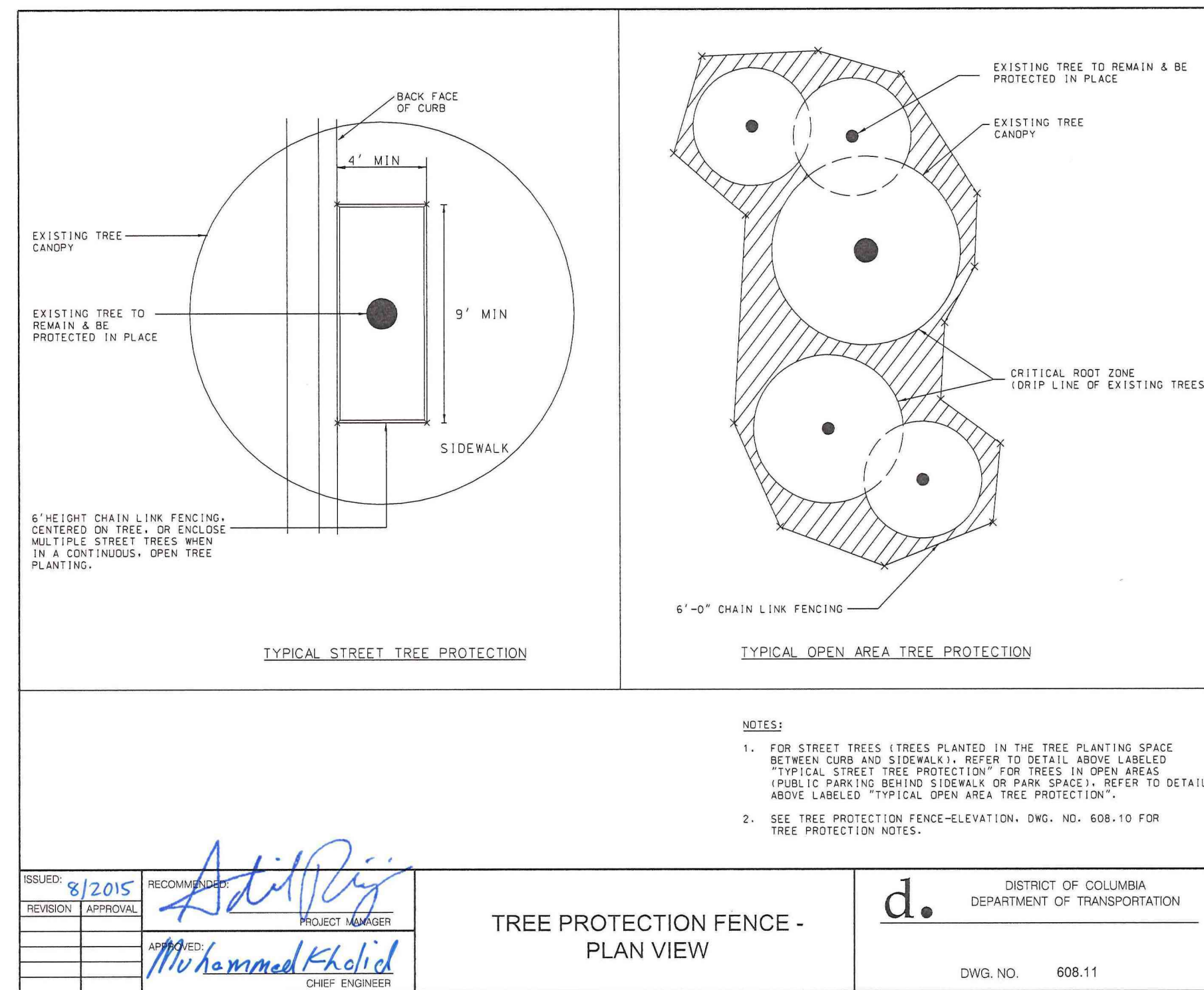
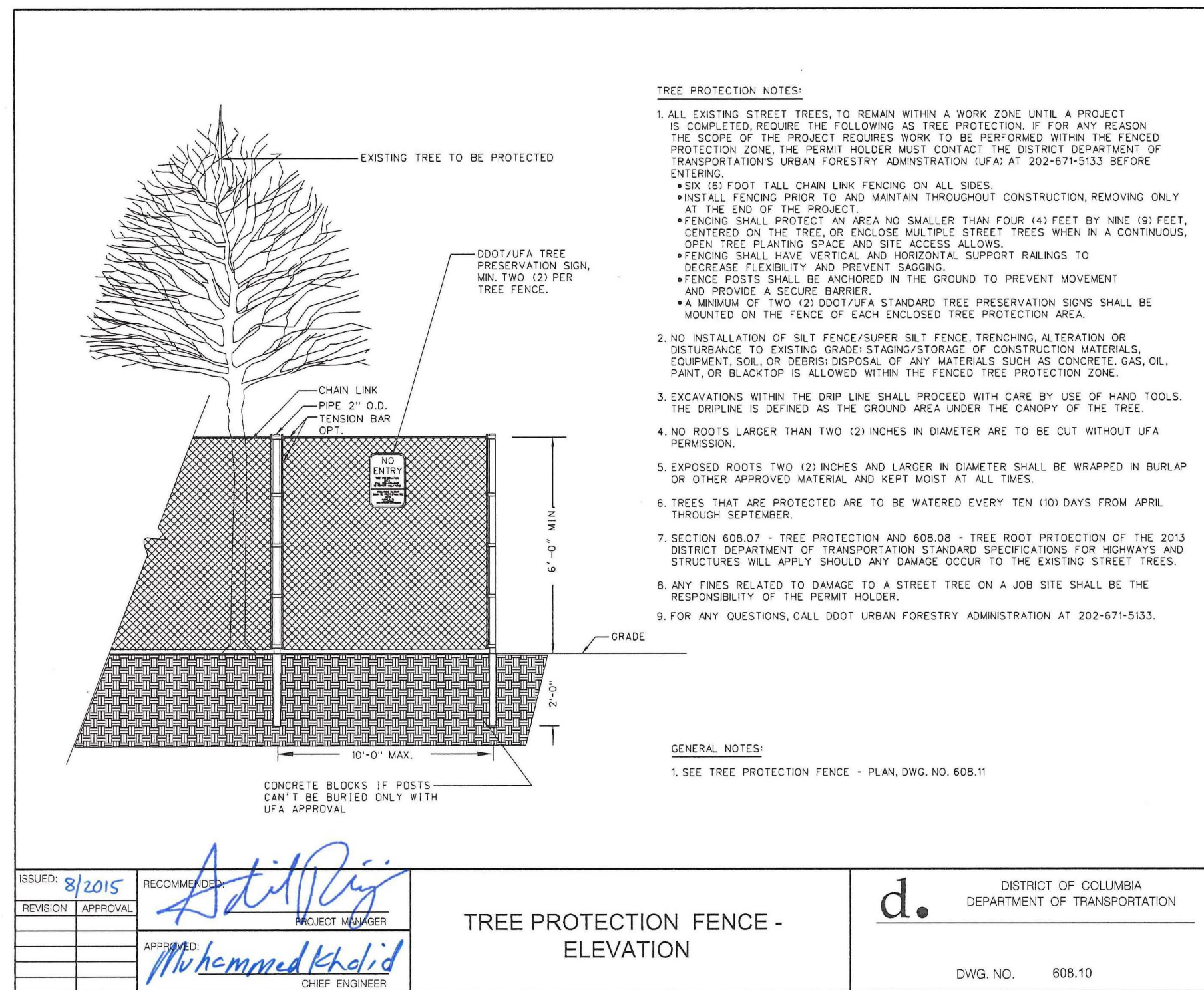
DATE: _____
FILE: _____

SHEET 55 OF 167

NO.	DESCRIPTION	NAME	DATE



REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.	FAP NO. STP- 2018 (009)	56	167



NOTE: FOR ALL ELLIPSE PLANTING, REFER TO NOTES 1,2,3 SHOWN IN DDOOT STANDARD DWG 621.74. DETERMINE SOIL SURFACE INFILTRATION RATE AND UTILIZE THE SAND DRAINAGE LAYER ACCORDING TO SUBSURFACE INFILTRATION REQUIREMENTS.

P:\DDOT Penn Potomac Avenue Intersection 50291A7 CAD\304 DD\LD-521 TREE PRESERVATION DETAILS.dgn
Monday, September 12, 2022 AT 04:13 PM
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LD-521

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT DIVISION

PENNSYLVANIA AND POTOMAC AVE SE
INTERSECTION IMPROVEMENT PROJECT

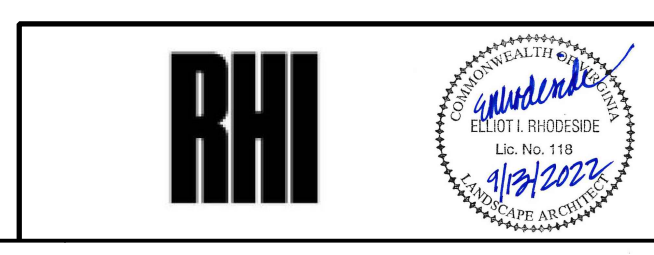
LANDSCAPE TREE PRESERVATION DETAILS

PROJECT ENG. ER
DESIGNED BY MM
CHECKED BY MM
DRAWN BY CN
PROJECT MGR. RS

DIVISION CHIEF

DATE _____
FILE _____
SHEET 56 OF 167

NO.	DESCRIPTION	NAME	DATE



SECTION A-A

SECTION B-B

PLAN VIEW

NOTES:

1. MAXIMUM WATERSHED AREA: 6.0 TIMES AREA OF THE CONTINUOUS PLANTING STRIP.
2. WHERE IMPERVIOUS SIDEWALK WIDTH IS GREATER THAN B, LINEAR GRATES OR SIDEWALK CATCH BASINS ARE REQUIRED FOR REDISTRIBUTION OF RAIN WATER. SEE DWGS NOS. 621.75 AND 621.76.
3. SEE DWG NO. 621.74 FOR BOTTOM SAND LAYER AND SUBSURFACE DRAINAGE REQUIREMENTS.
4. SEE DWGS. NO. 611.10 TO 611.13 FOR TREE INSTALLATION REQUIREMENTS.

LEGEND:

① SIDEWALK / PAVERS	④ SAND - 0" TO 12" (AS REQUIRED)	⑦ CHOKER LAYER
② DDOT APPROVED STRUCTURAL SOIL - 30" MIN.	⑤ SCARIFIED SUBSOIL - 4"	⑧ GEOTEXTILE
③ PLANTING SOIL - 36"	⑥ CRUSHED STONE, DOUBLE WASHED NO. 57 - 6"	⑨ MULCH - 3"

RECOMMENDED: *Raouf & Ginn*
DEPUTY CHIEF ENGINEER

APPROVED: *[Signature]*

STRUCTURAL SOIL UNDER SIDEWALK - CONTINUOUS OPEN TREE SPACE

DISTRICT OF COLUMBIA
DEPARTMENT OF TRANSPORTATION

DWG. NO. 621.71

SECTION A-A

SECTION B-B

PLAN VIEW

NOTES:

1. MINIMUM OPEN TREE PLANTING SPACE DIMENSIONS: 6'x9'.
2. MAXIMUM WATERSHED AREA: 6.0 TIMES AREA OF THE OPEN TREE PLANTING AREA.
3. SEE DWG NO. 621.74 FOR BOTTOM SAND LAYER AND SUBSURFACE DRAINAGE REQUIREMENTS.
4. DETAIL INTENDED FOR NEW TREE PLANTINGS ON SITES WITH CONSTRAINTS TO ACHIEVING FULL SOIL VOLUME.
5. TO ADAPT DETAIL TO EXISTING TREE LOCATIONS, PROVIDE EXPANDED SOIL VOLUMES BEYOND EXISTING TREE ROOTING AREA; DO NOT DISTURB AROUND EXISTING TREE ROOTS.
6. SEE DWGS. NO. 611.10 TO 611.13 FOR TREE INSTALLATION REQUIREMENTS.

LEGEND:

① REPLACED SIDEWALK - TYPE PER DESIGN PLANS	④ SAND - 0" TO 12" (AS REQUIRED)	⑦ CHOKER LAYER
② DDOT APPROVED STRUCTURAL SOIL - 30" MIN.	⑤ SCARIFIED SUBSOIL - 4"	⑧ GEOTEXTILE
③ PLANTING SOIL - 12"	⑥ CRUSHED STONE, DOUBLE WASHED NO. 57 - 6"	⑨ MULCH - 3"

RECOMMENDED: *Raouf & Ginn*
DEPUTY CHIEF ENGINEER

APPROVED: *[Signature]*

STRUCTURAL SOIL UNDER SIDEWALK - CONFINED OPEN TREE SPACE

DISTRICT OF COLUMBIA
DEPARTMENT OF TRANSPORTATION

DWG. NO. 621.72

SECTION A-A

SECTION B-B

PLAN VIEW

NOTES:

1. MINIMUM TREE PLANTING BED DIMENSIONS: 4' x 6'.
2. MAXIMUM WATERSHED AREA: 6.0 TIMES AREA OF THE TREE PLANTING BED.
3. IF SUBGRADE INFILTRATION RATE IS LESS THAN 0.5 INCH PER HOUR, OR IF THE SOILS ARE MAPPED BY USGS AS GROUP C OR D, SAND LAYER IS REQUIRED.
4. SEE DWG NOS. 621.02, 621.04, OR 621.06 FOR PERMEABLE PAVEMENT DETAIL OPTIONS.
5. DETAIL INTENDED FOR NEW TREE PLANTINGS ON SITES WITH CONSTRAINTS TO ACHIEVING FULL SOIL VOLUME.
6. TO ADAPT DETAIL TO EXISTING TREE LOCATIONS, PROVIDE EXPANDED SOIL VOLUMES BEYOND EXISTING TREE ROOTING AREA; DO NOT DISTURB AROUND EXISTING TREE ROOTS.

LEGEND:

① PERMEABLE PAVEMENT	③ SCARIFIED SUBSOIL - 4"
② DDOT APPROVED STRUCTURAL SOIL - 30" MIN.	④ MULCH - 3"
⑤ PLANTING SOIL - 12"	⑥ PERMEABLE PAVEMENT BASE
⑦ SAND - 12" (AS REQUIRED)	

RECOMMENDED: *Raouf & Ginn*
DEPUTY CHIEF ENGINEER

APPROVED: *[Signature]*

STRUCTURAL SOIL UNDER COVERED TREE SPACE ONLY

DISTRICT OF COLUMBIA
DEPARTMENT OF TRANSPORTATION

DWG. NO. 621.73

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\$PENTEL\$

LD-522

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT DIVISION

PENNSYLVANIA AND POTOMAC AVE SE
INTERSECTION IMPROVEMENT PROJECT

PROJECT ENG. ER
DESIGNED BY MM
DRAWN BY CN
PROJECT MGR. MM/RS

DIVISION CHIEF

LANDSCAPE STRUCTURAL
SOIL DETAILS

DATE _____
FILE _____
SHEET 57 OF 167



NO.	DESCRIPTION	NAME	DATE

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.	FAP NO. STP - 2018 (009)	113	167

PROPOSED INLET SHALL BE ENCASED IN CONCRETE OR PLACED WITHIN A STEEL CYLINDER CASING WITH ANNULAR SPACE FILLED WITH GENERAL PURPOSE CONTROLLED LOW-STRENGTH MATERIAL (CLSM) AS DEFINED IN THE DC WATER STANDARD SPECIFICATIONS.

SQUARE 1044

ABANDON EXISTING INLET AND CONNECTING PIPE UTILIZING FLOWABLE BACKFILL SHAVE AND SEAL EXISTING INLET TOP TO 1' BELOW FINAL GRADE

WB PENNSYLVANIA AVE SE

EB PENNSYLVANIA AVE SE

SQUARE 1046

SEE TABLE 3, CONDITION 2 FOR MITIGATION STEPS ON SHEET DD-02

EXISTING SS PIPE SHALL BE ENCASED IN CONCRETE OR PLACED WITHIN A STEEL CYLINDER CASING WITH ANNULAR SPACE FILLED WITH GENERAL PURPOSE CONTROLLED LOW-STRENGTH MATERIAL (CLSM) AS DEFINED IN THE DC WATER STANDARD SPECIFICATIONS.

REMOVE EXISTING INLET
REMOVE EXISTING INLET AND CONNECTING PIPE.

SEE TABLE 3, CONDITION 2 FOR MITIGATION STEPS ON SHEET DD-02

ABANDON EXISTING INLET AND CONNECTING PIPE UTILIZING FLOWABLE BACKFILL SHAVE AND SEAL EXISTING INLET TOP TO 1' BELOW FINAL GRADE

LEGEND

TREE CANOPY (TREE TO BE PRESERVED AND PROTECTED)	
CATCH BASIN	
PROPOSED STORM DRAIN PIPE	
BUS PAD	

BAI BRUDIS & ASSOCIATES, INC.
Consulting Engineers
11000 Broken Land Parkway Suite 450
Columbia, Maryland 21044
Phone 410-884-3607
www.brudis.com

DISTRICT OF COLUMBIA
WILLIAM BRUDIS
No. PE922191
12/16/22
LICENSED PROFESSIONAL ENGINEER

DATED: DECEMBER, 2022	SCALE: 1" = 30'	DD-01
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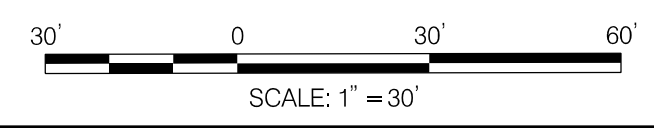
D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT DIVISION

PENNSYLVANIA AND POTOMAC AVE SE
INTERSECTION IMPROVEMENT PROJECT

STORM DRAIN PLAN

PROJECT ENG. <u>AP</u>
DESIGNED BY <u>DMK</u>
CHECKED BY <u>SA</u>
DRAWN BY <u>DMK</u>
PROJECT MGR. <u>RKL</u>
DIVISION CHIEF
DATE
FILE
SHEET 113 OF 167

NO.	DESCRIPTION	NAME	DATE



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S:\17-005\17-005.dwg, December 17, 2022 AT 03:31 PM

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.	FAP NO. STP - 2018 (009)	114	167

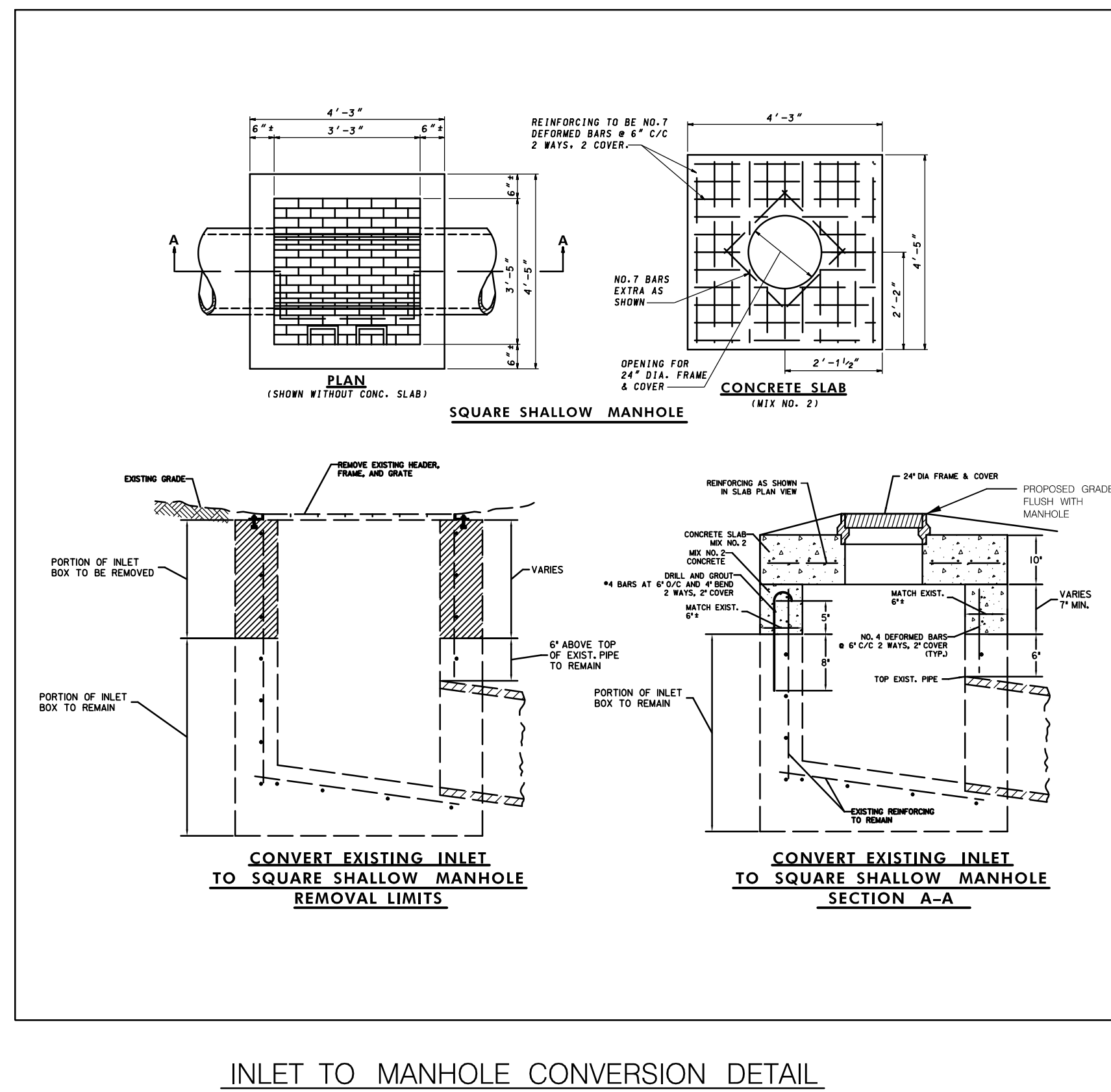
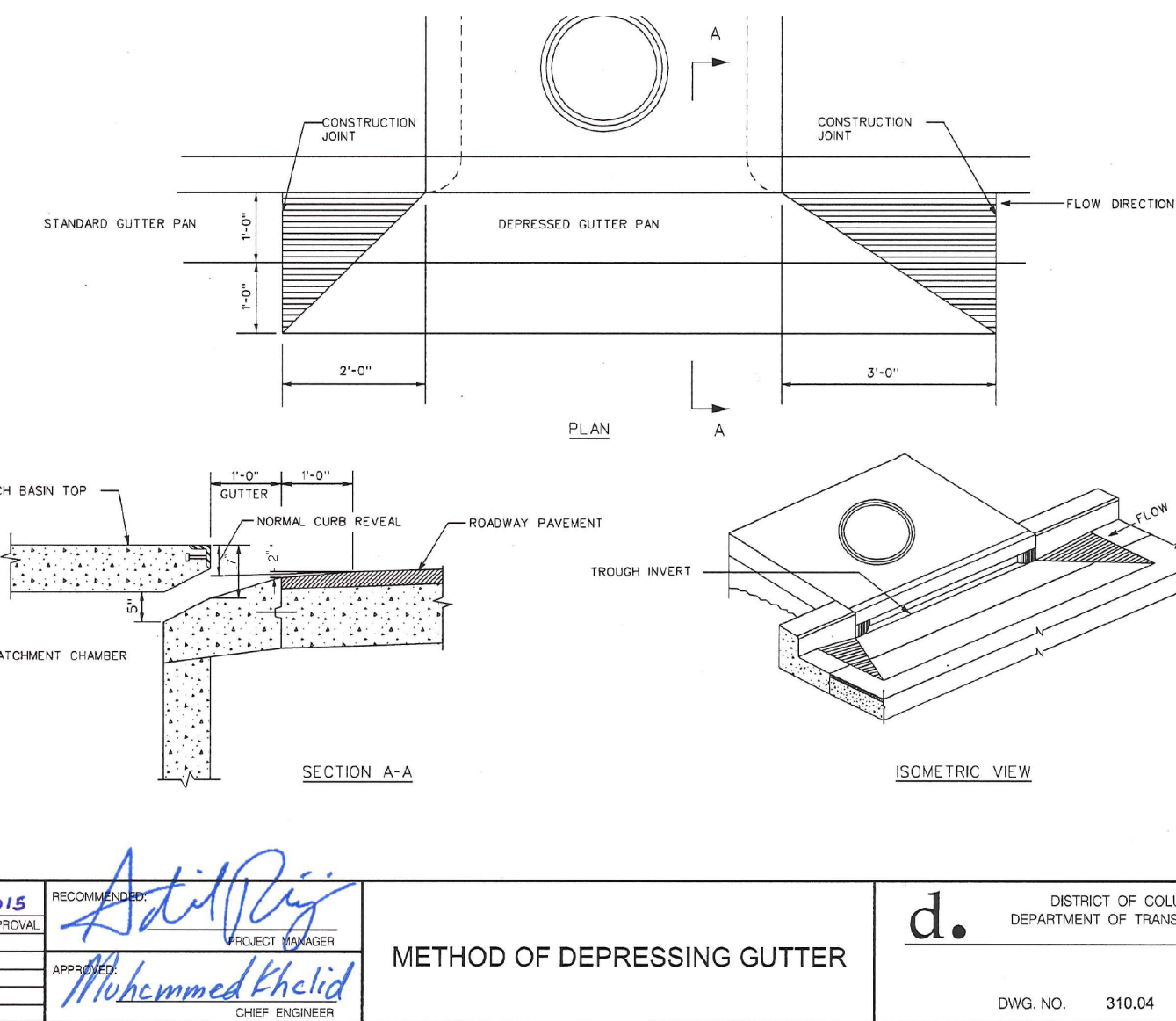
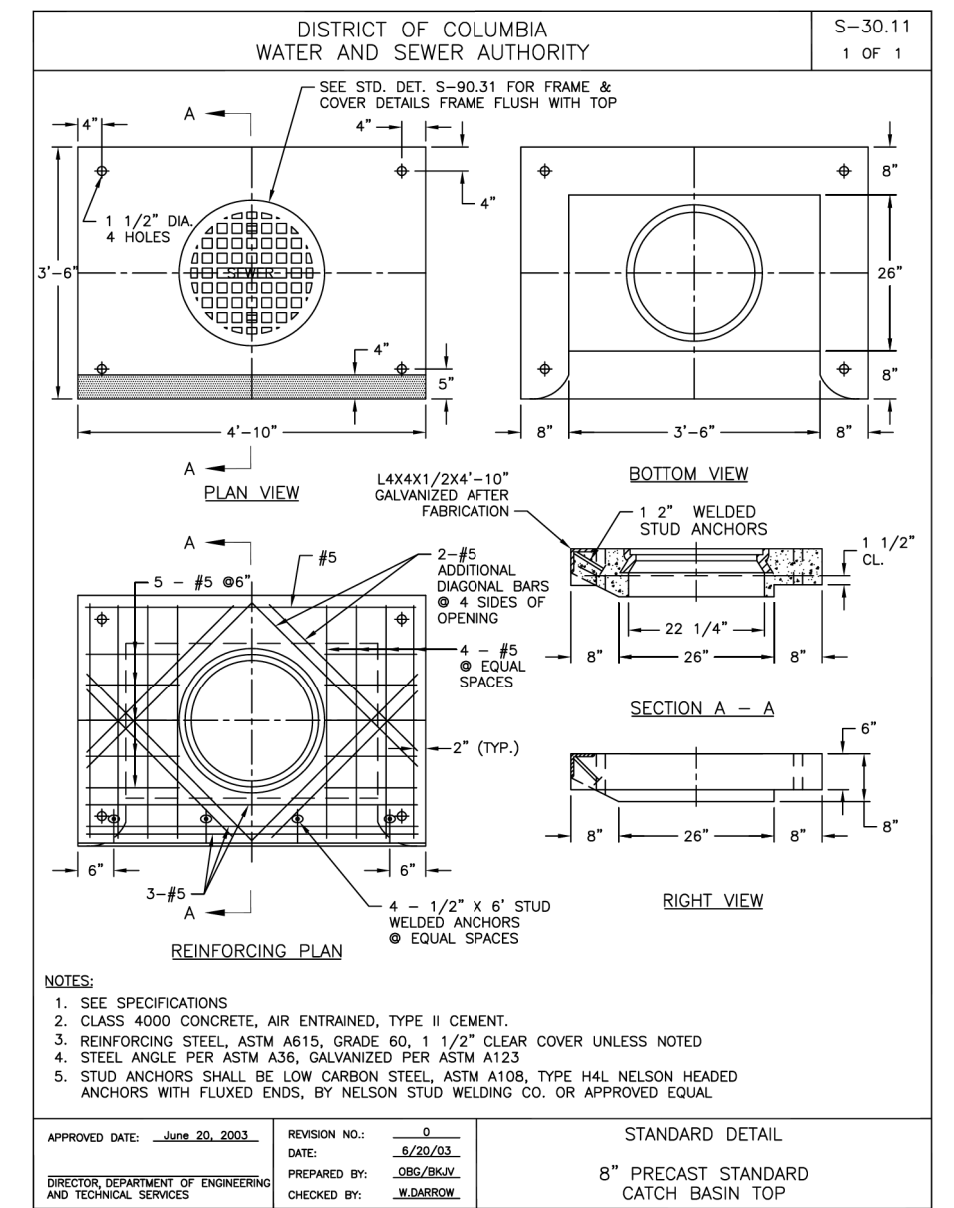
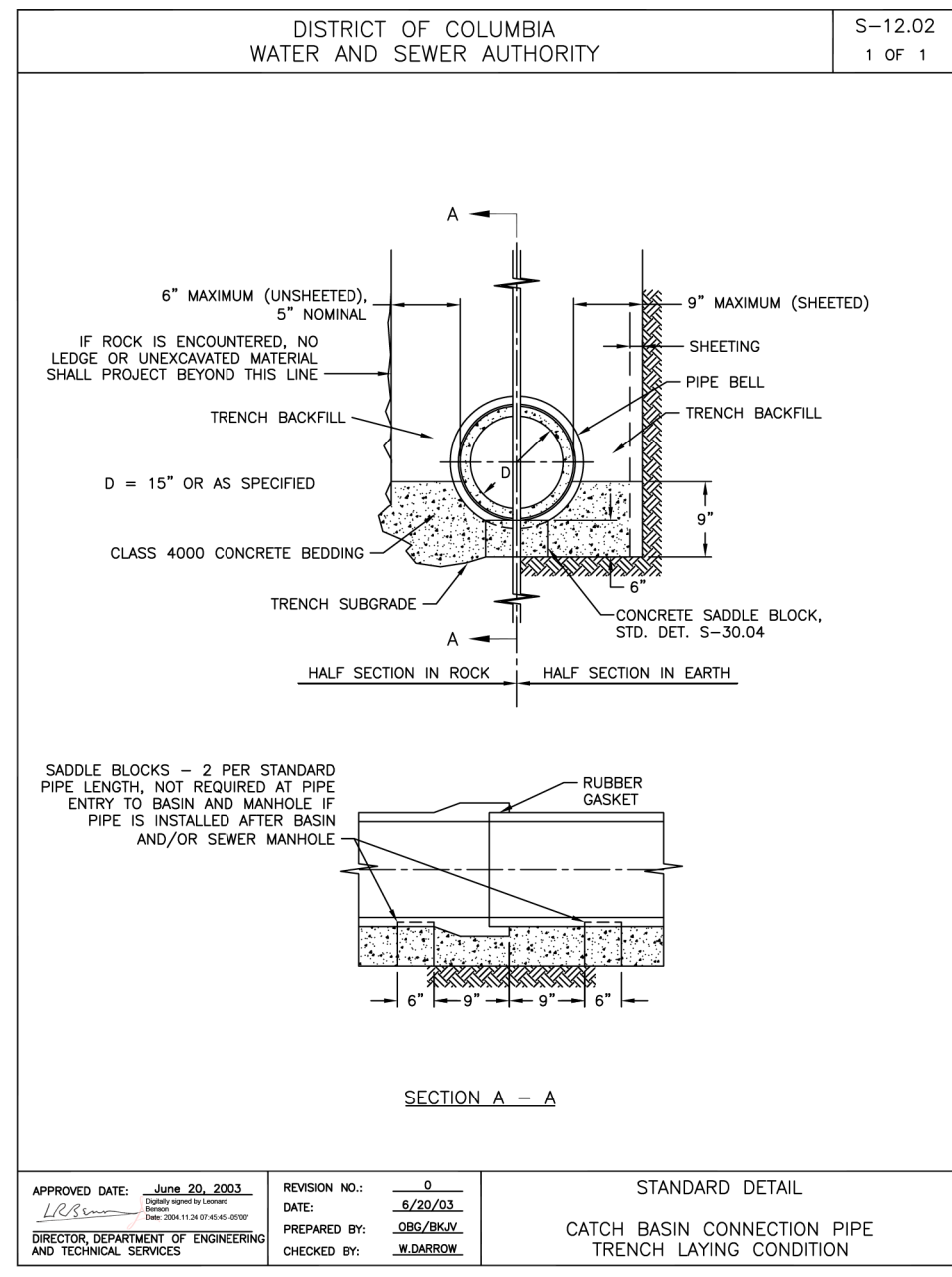
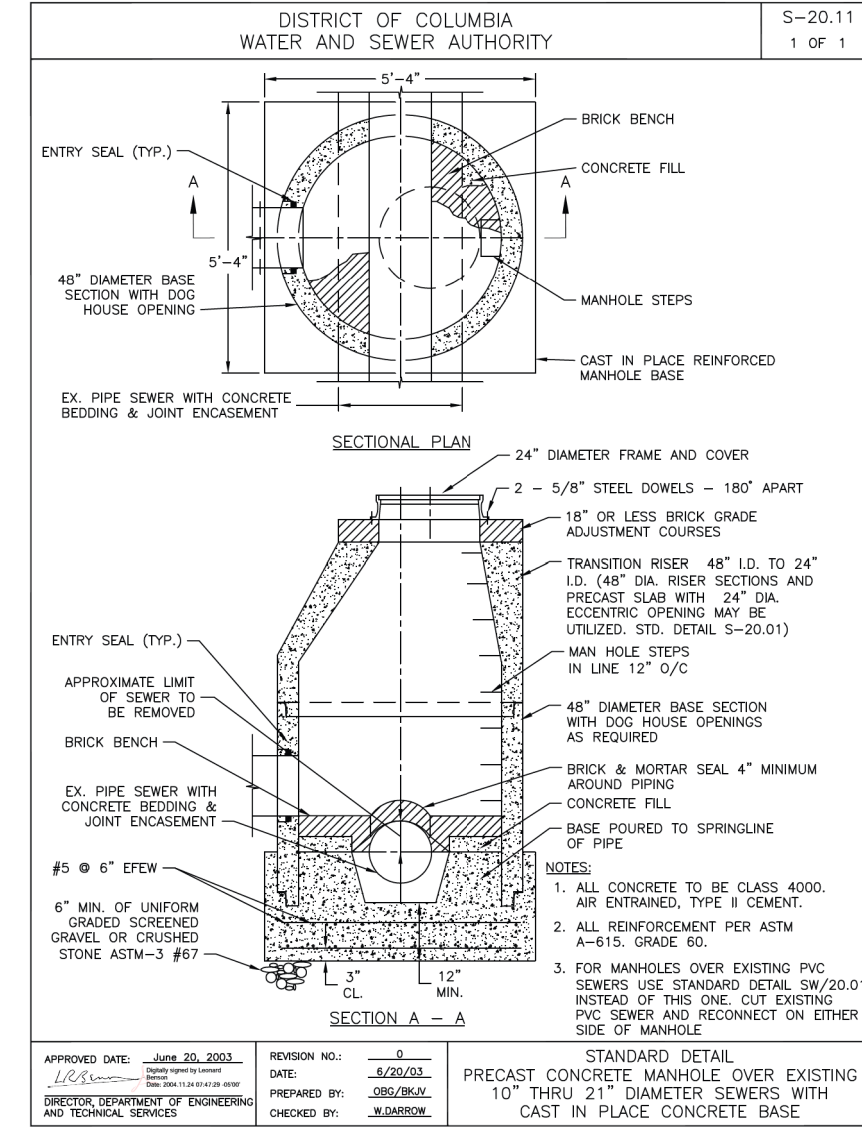
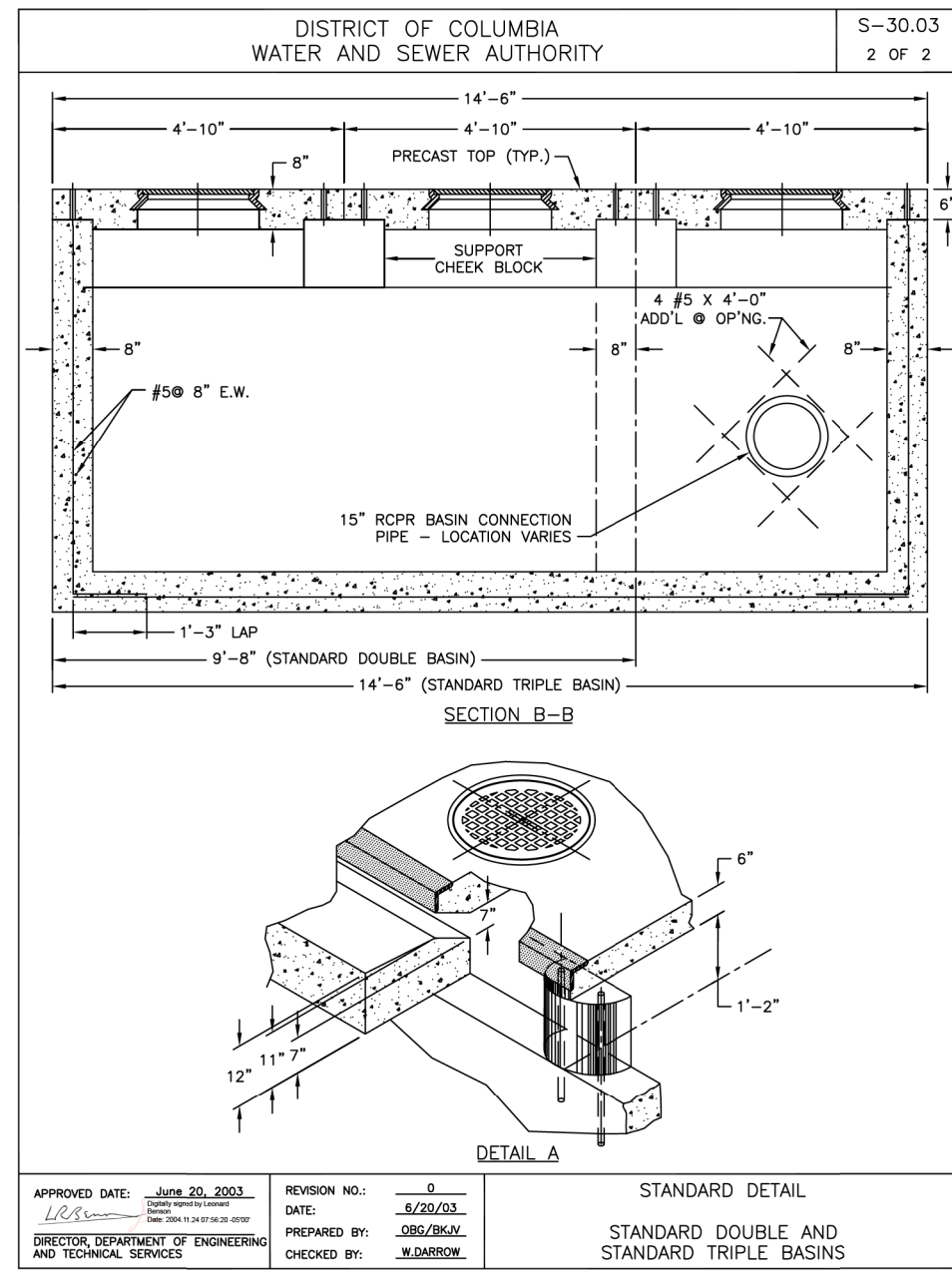
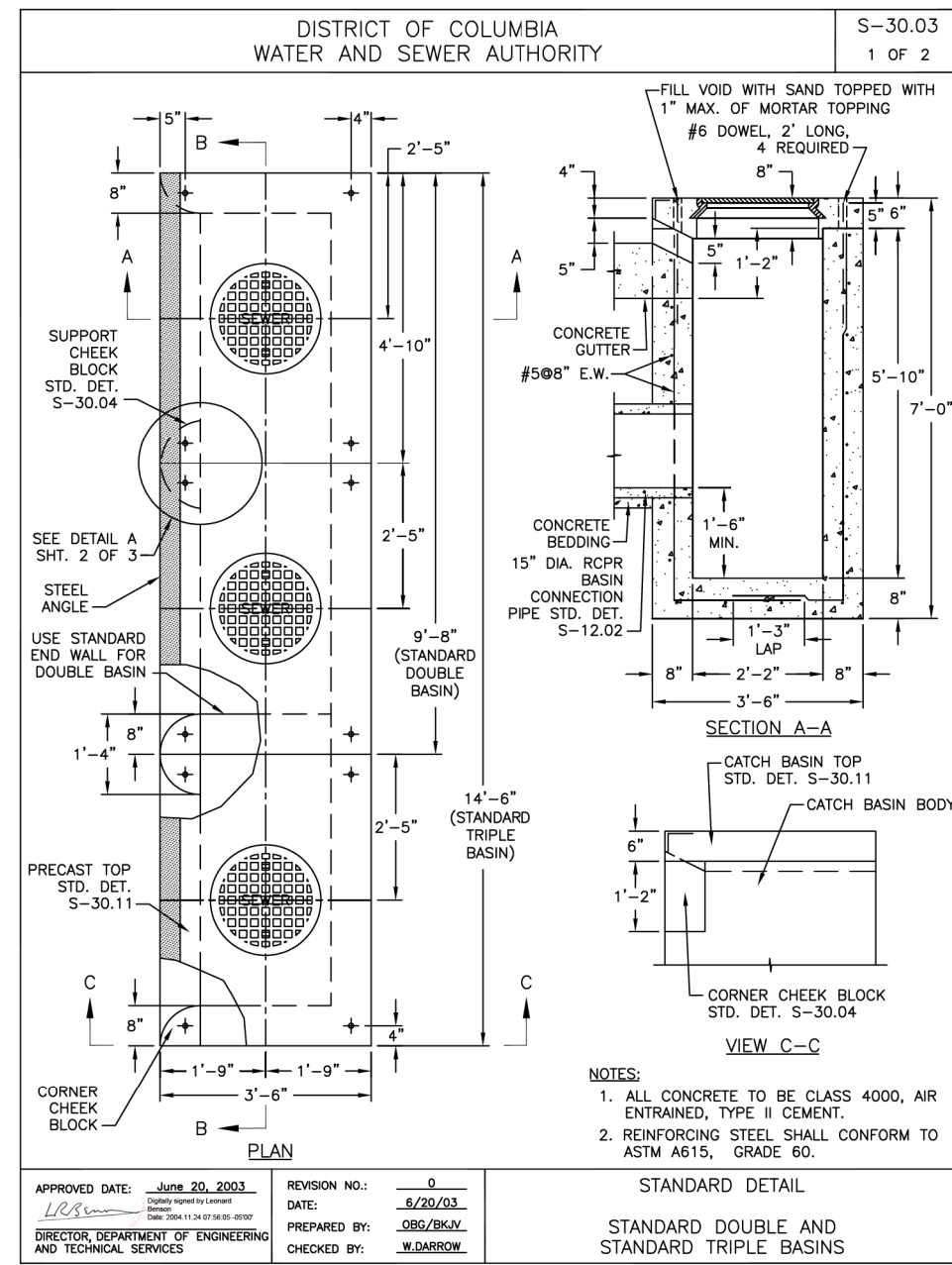
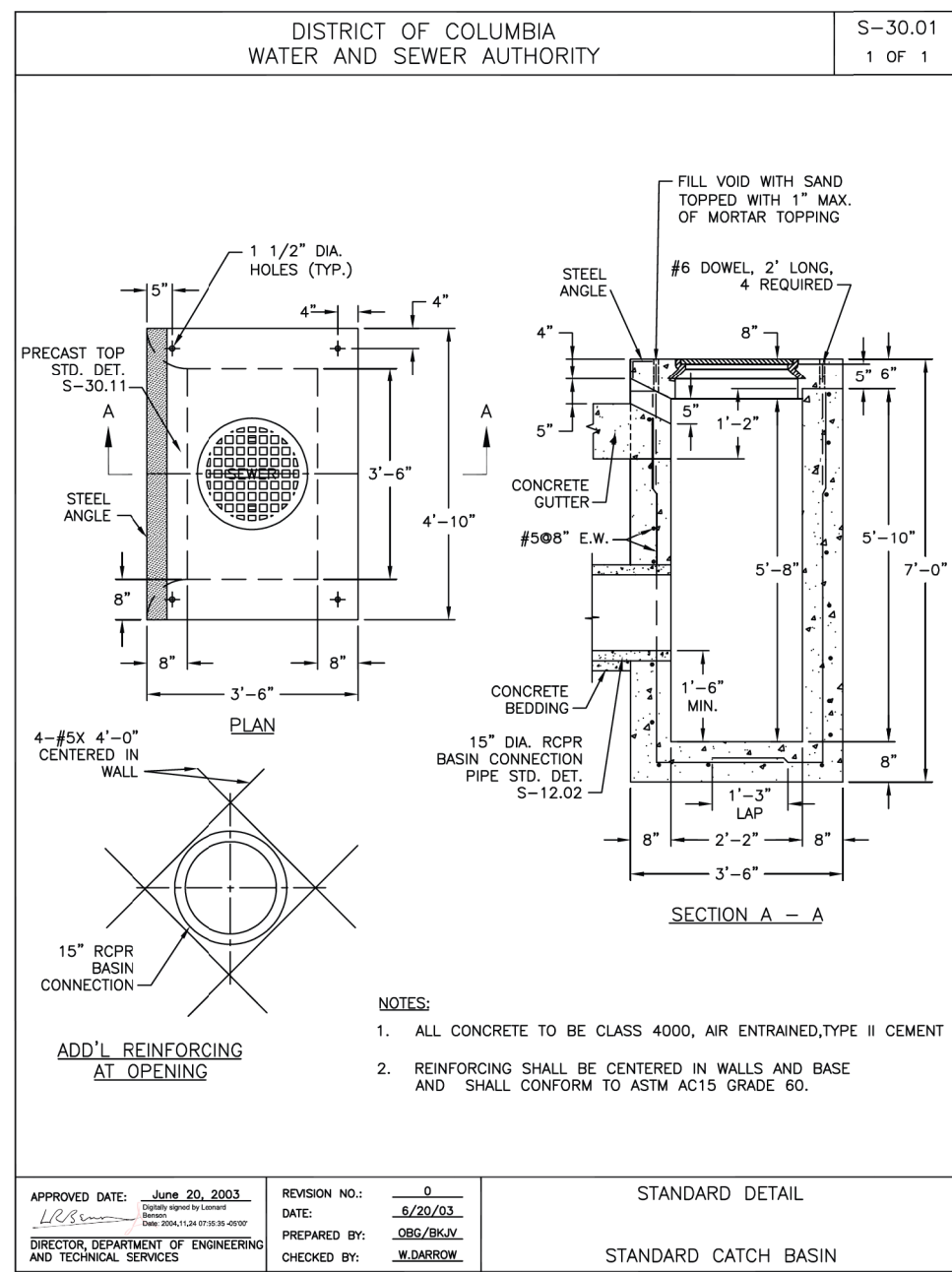


Table 1: Horizontal Clearance for Water Main (12" or less) and Sanitary Sewer (27" or less)

Horizontal Clearance, H	Mitigation Steps
Condition 1 $H \geq 10'$	Follow design utility procedures as outlined in the DC Water Project Design Manual Vol 3 - Linear Infrastructure Design for clearances between water and sewer lines. Use one or more of the following mitigation steps: 1) Install joint-free liner (such as CIPP) on sewer pipe. 2) Ensure that any pipe joints on the water main are 9' from sewer main. 3) Place water or sewer pipe within a casing pipe, such that the casing pipe has no joints within 10' of the other pipe. 4) Install the new pipeline using one of the following pipe materials (see Volume 3 of the Project Design Manual for allowable cases for each material): • Steel pipe with welded joints • High Density Polyethylene Pipe (HDPE) with butt fusion joints • Solvent welded PVC pipe
Condition 2 $4' < H < 10'$	In addition to the items above, comply with requirements of Table 2.
Condition 3 $2.5' < H < 4'$	Use all mitigation steps listed below: 1) Conduct subsurface utility engineering per ASCE 38 (latest version) to confirm horizontal separation. 2) Submit CCTV of the sewer main to DC Water. 3) Use one of the mitigation steps from Condition 2. 4) Encase one of the pipes with concrete. If encasing a metallic watermain, provide a poly wrap sleeve around the watermain inside the concrete encasement.
Condition 4 $H < 2.5'$	Comply with requirements of Table 2. Relocate one or more of the pipes to meet separation requirements.

Table 3: Horizontal Clearance for either 1) Water Main (12" or less) and Other Utility/Structure, or Sanitary Sewer (27" or less) and Other Utility/Structure

Horizontal Clearance, H	Mitigation Steps
Condition 1 $H \geq 4'$	Standard design utility procedures to be followed as outlined in the DC Water Project Design Manual Vol 3 - Linear Infrastructure Design for clearances between water and other utilities.
Condition 2 $2.5' < H < 4'$	Use all mitigation steps listed below: 1) Conduct subsurface utility engineering per ASCE 38 (latest version) to confirm horizontal separation. 2) Submit CCTV of the sewer main to DC Water. 3) Use one of the mitigation steps from Condition 2 in Table 1. 4) Encase one of the pipes with concrete or backfill with CLSM to a depth of one (1) foot above the pipe. If encasing a metallic watermain, provide a poly wrap sleeve around the watermain inside the concrete encasement. 5) Comply with requirements of Table 4.
Condition 3 $H < 2.5'$	When installing a new utility adjacent to an existing water or sewer pipe, provide protection to maintain integrity of the bedding and soils around existing water or sewer pipe. During installation, if exposed water main joints are encountered, install a quick sleeve bell joint clamps on the water main.

Table 4: Vertical Clearance for either 1) Water Main (12" or less) and Other Utility/Structure, or Sanitary Sewer (27" or less) and Other Utility/Structure

Vertical Clearance, V	Mitigation Steps
Condition 1 $V \geq 18"$	Follow design utility procedures as outlined in the DC Water Project Design Manual Vol 3 - Linear Infrastructure Design for clearances between water and sewer lines. Submit plan and profile view showing both pipes.
Condition 2 $12" < H < 18"$	Encase one of the pipes with concrete. If encasing a metallic watermain, provide a poly wrap sleeve around the watermain inside the concrete encasement. During installation, if exposed water main joints are encountered, install a quick sleeve bell joint clamps on the water main.
Condition 3 $V < 12"$	Relocate pipe to meet separation requirements.

Note: Table 4 only applies when the water/sewer main and other utility/structure are within 4' horizontally.

DATED: DECEMBER, 2022 SCALE: AS SHOWN DD-02

D.C. DEPARTMENT OF TRANSPORTATION
 INFRASTRUCTURE PROJECT MANAGEMENT DIVISION

PENNSYLVANIA AND POTOMAC AVE SE
 INTERSECTION IMPROVEMENT PROJECT

STORM DRAIN DETAILS

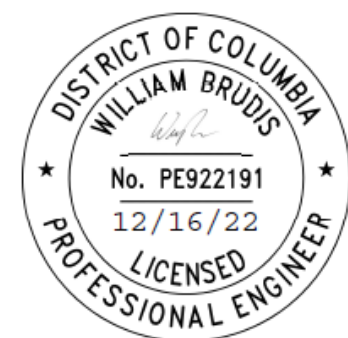
PROJECT ENG. AP
 DESIGNED BY APOMK
 CHECKED BY SA
 DRAWN BY DMK
 PROJECT MGR. RKL

DIVISION CHIEF

DATE
 FILE
 SHEET 114 OF 167

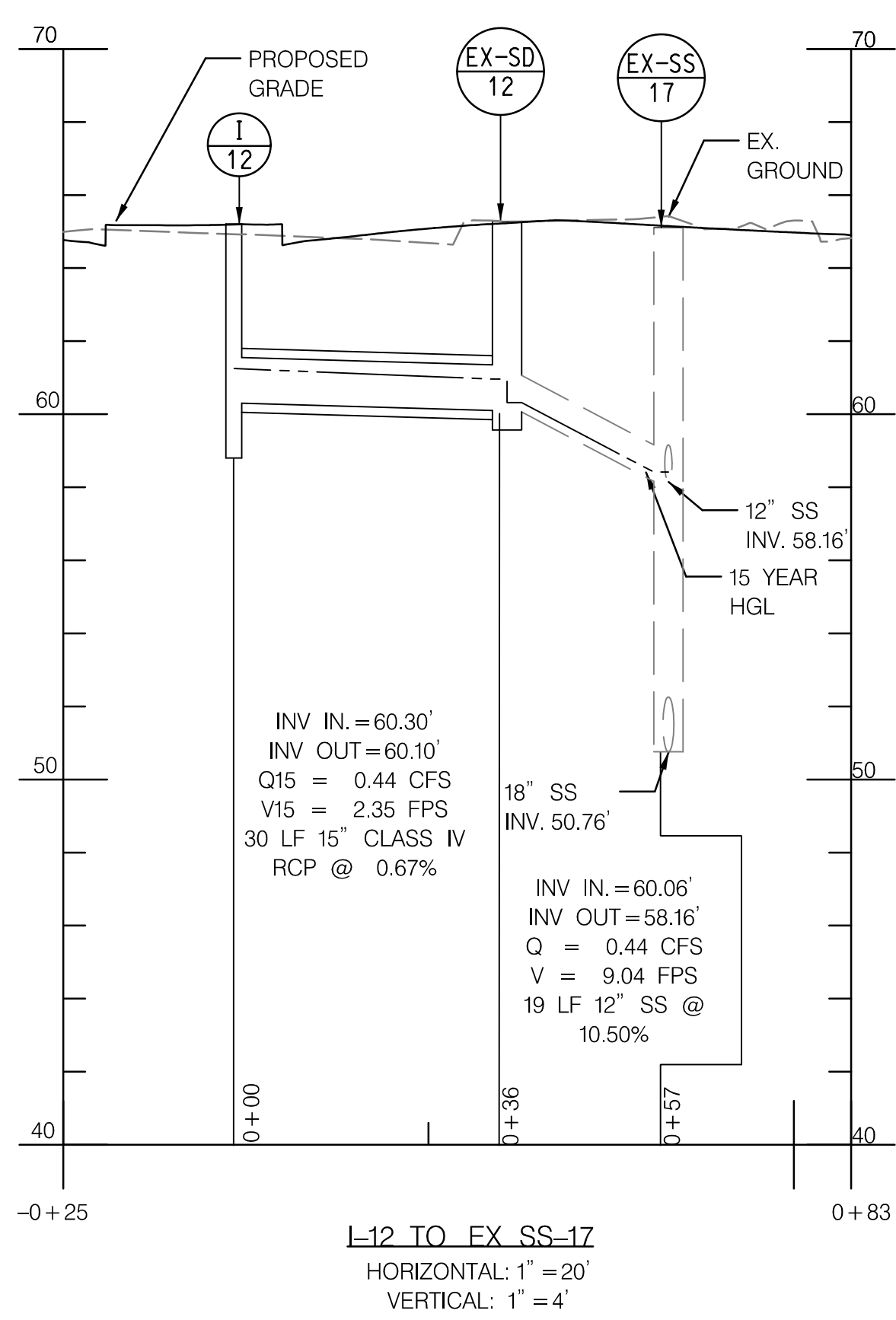
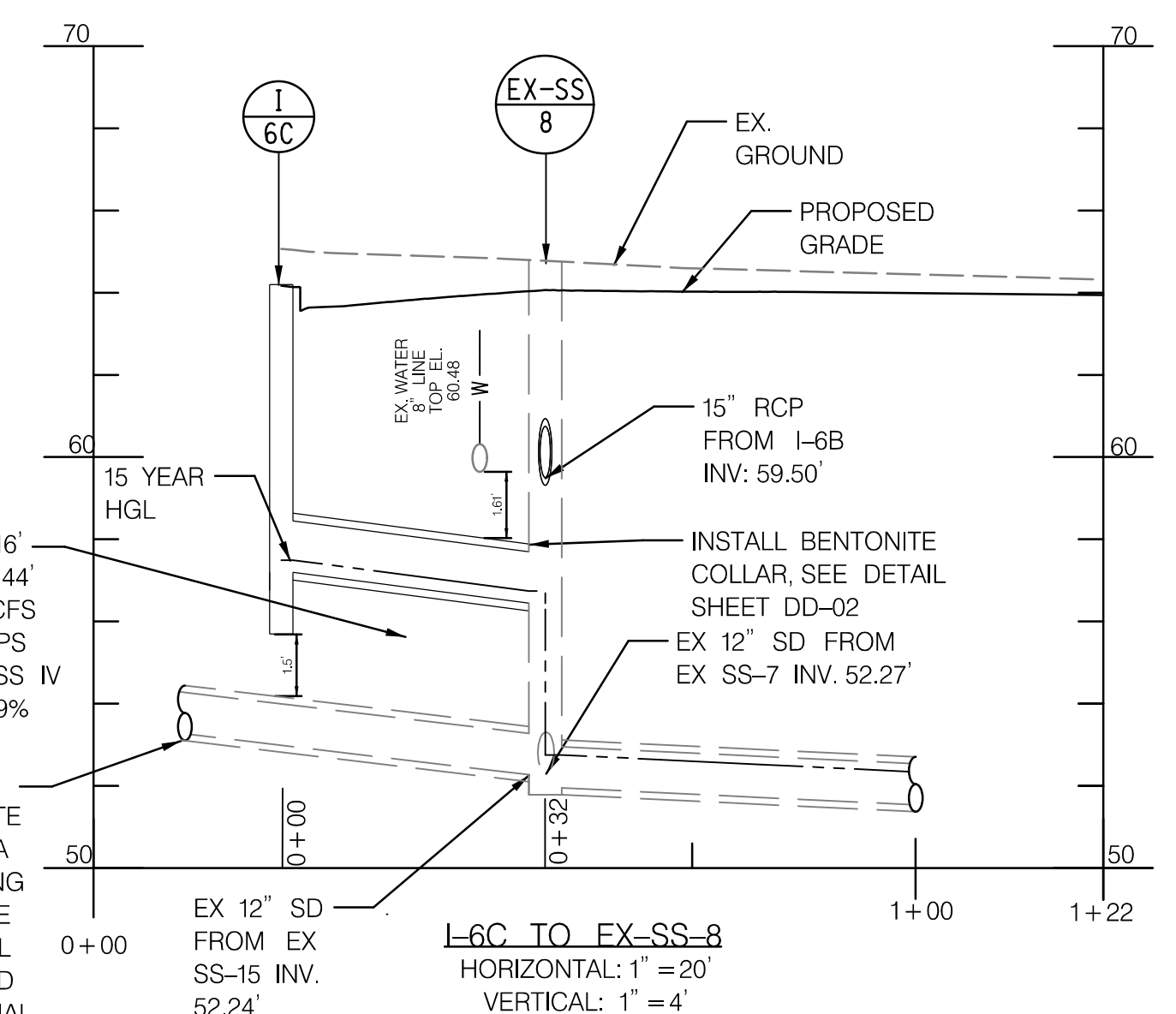
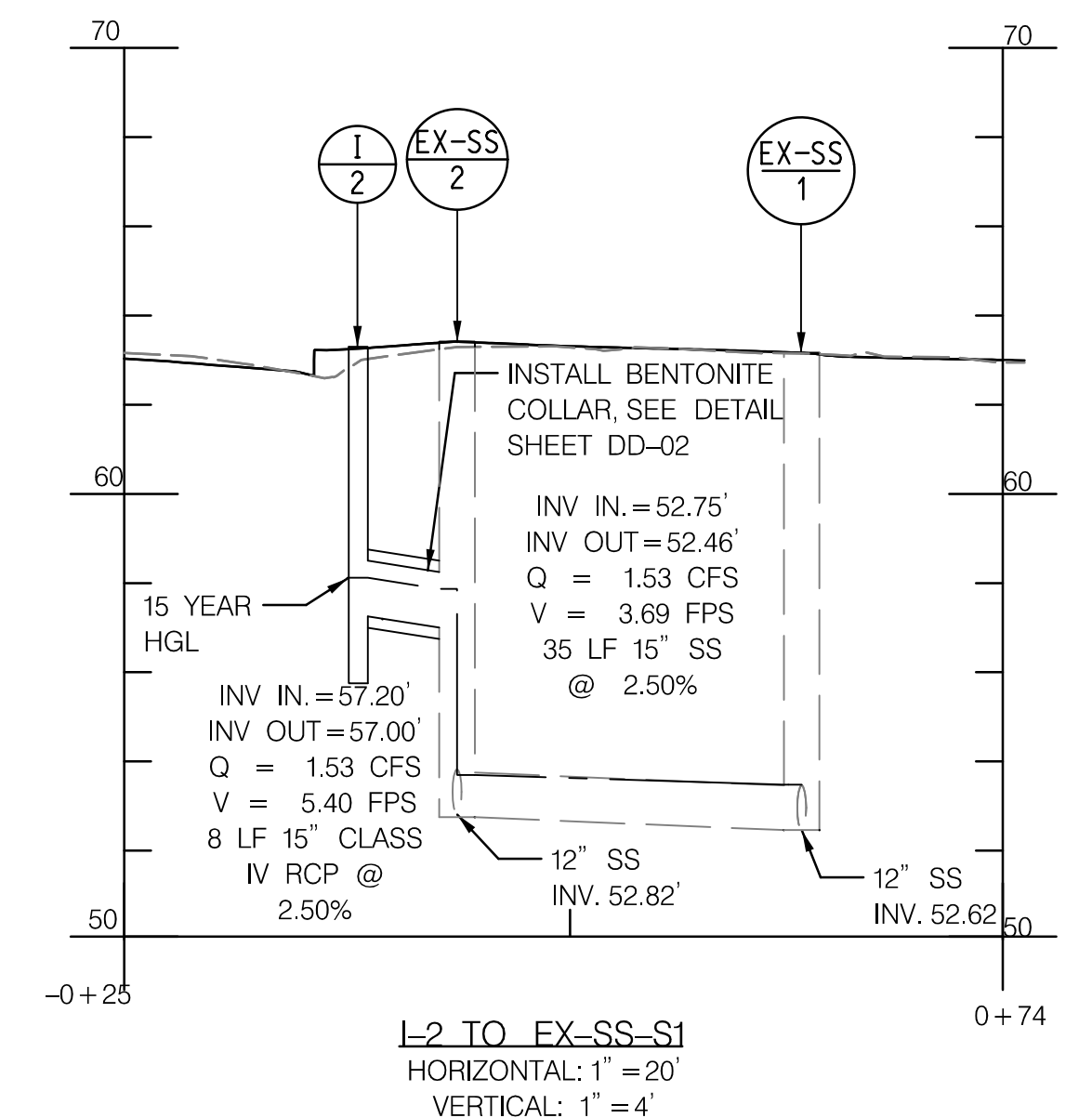
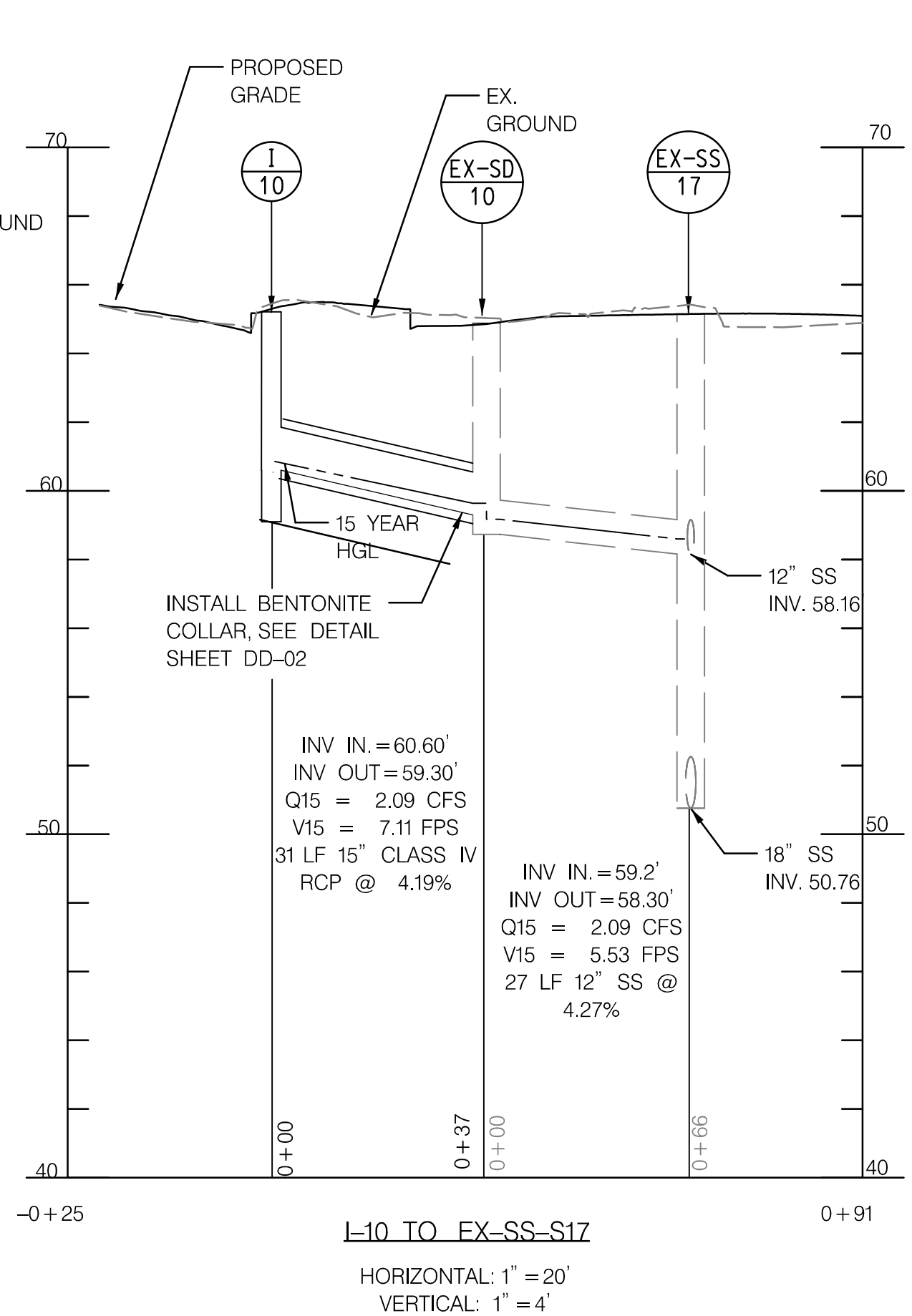
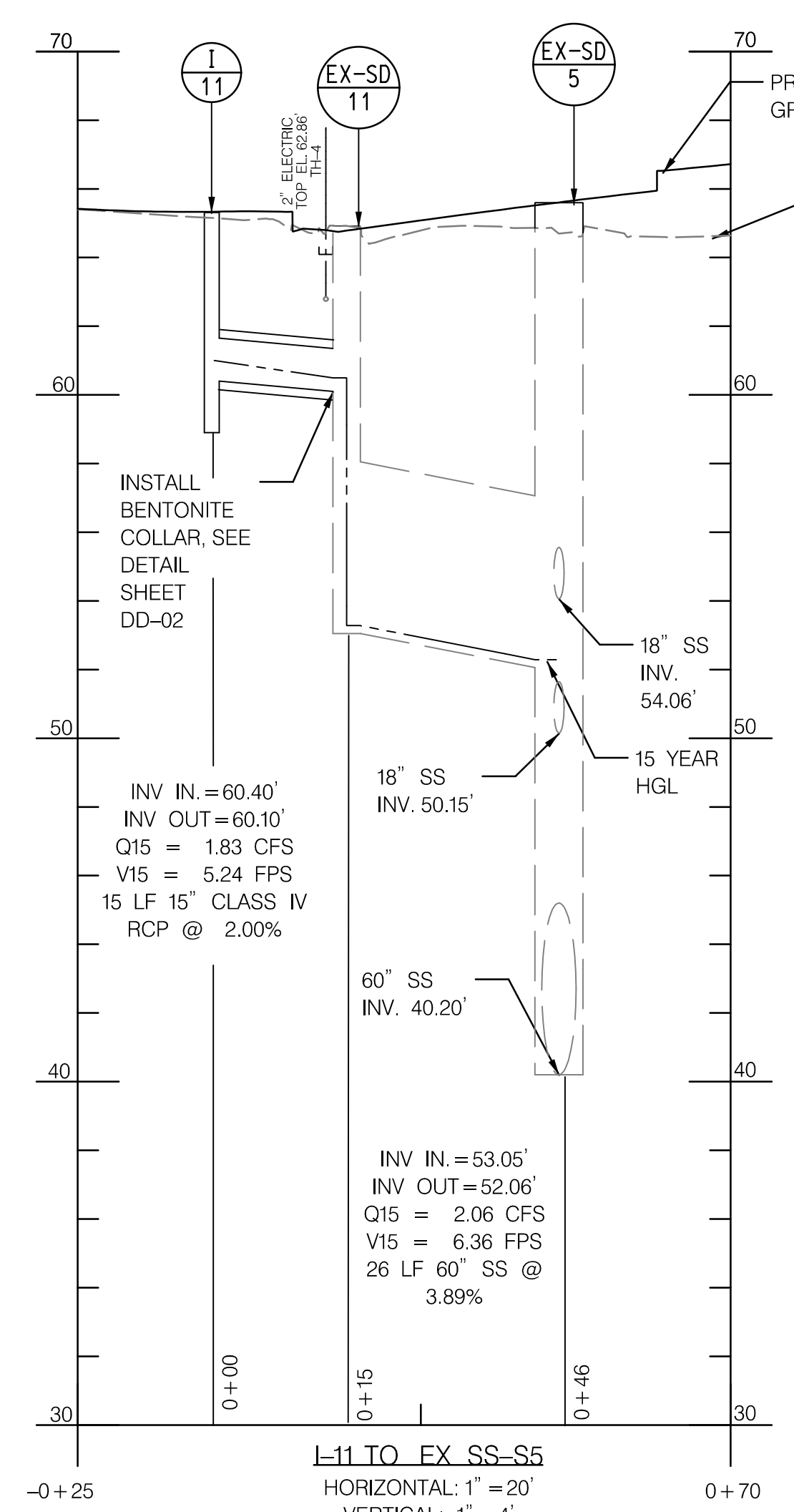
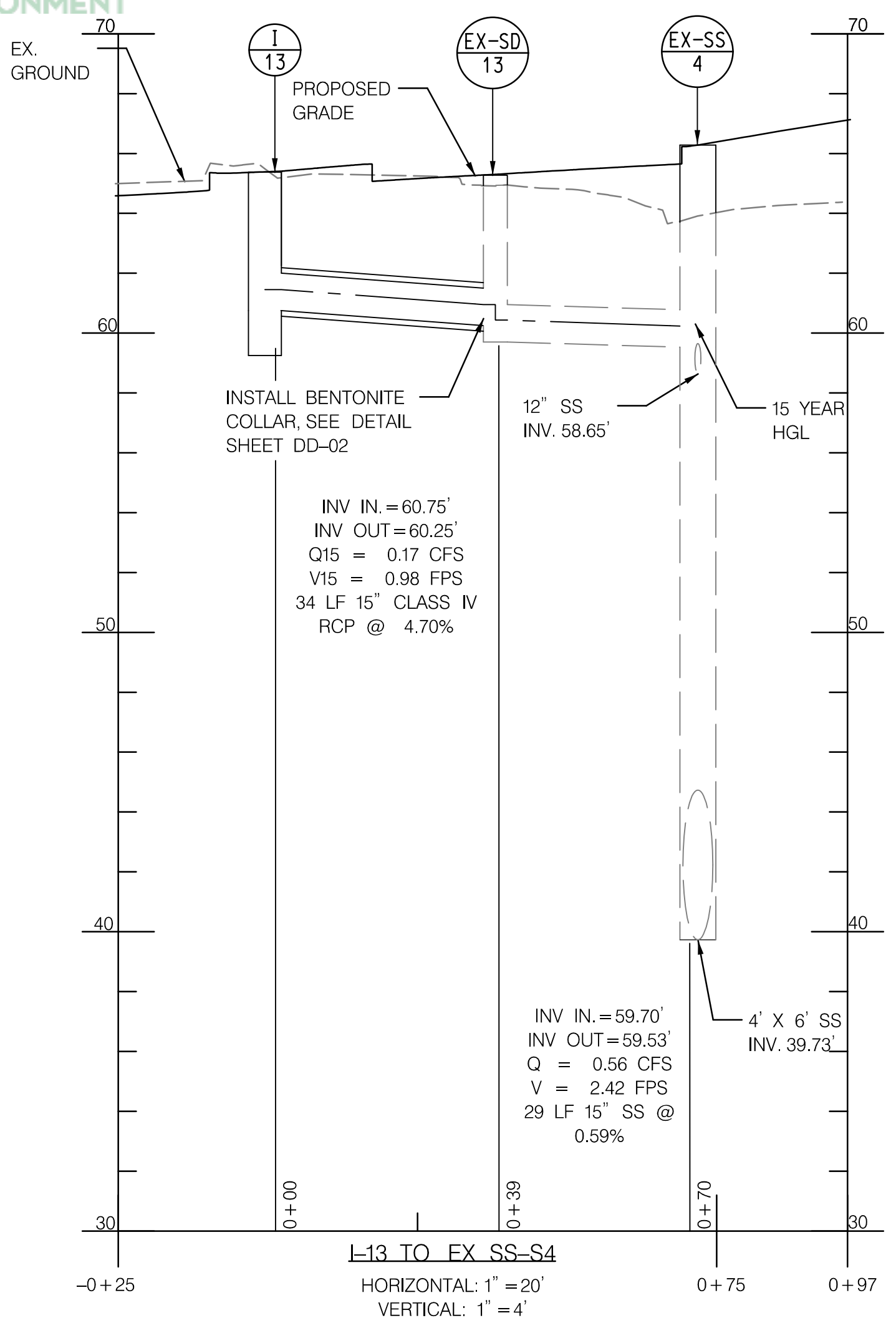
NO.	DESCRIPTION	NAME	DATE

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 BRUDIS & ASSOCIATES, INC.
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P:\17-005 DDOT AE Schedule\1. Pennsylvania Ave. Potomac Ave Improvements\CADD\Working\DD-002-Penn Ave & Potomac Ave.dgn
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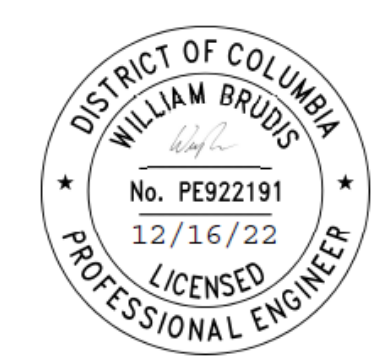
REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.	FAP NO. STP - 2018 (009)	115	167



STRUCTURE SCHEDULE							
NO.	STATION	OFFSET	BASELINE	DEPTH	DDOT REFERENCE STANDARDS	T.S.	REMARKS
I-2	105+85	62.9 LT	PENNSYLVANIA AVE SE	6.1'	STD TRIPLE CATCH BASIN (S-30.03)	63.3'	2 INCH LOCAL DEPRESSION
I-6C	102+84	83.6 RT	PENNSYLVANIA AVE SE	4.25	STD DOUBLE CATCH BASIN (S-30.03)	64.25'	1 INCH LOCAL DEPRESSION
I-10	103+49	155.2 LT	PENNSYLVANIA AVE SE	4.9'	STD DOUBLE CATCH BASIN (S-30.03)	65.2'	1 INCH LOCAL DEPRESSION
I-11	102+89	104.9 LT	PENNSYLVANIA AVE SE	4.9'	STD SINGLE CATCH BASIN (S-30.01)	65.4'	1 INCH LOCAL DEPRESSION
I-12	104+37	132.2 LT	PENNSYLVANIA AVE SE	4.9'	STD DOUBLE CATCH BASIN (S-30.03)	65.3'	1 INCH LOCAL DEPRESSION
I-13	104+31	99.4 LT	PENNSYLVANIA AVE SE	5.0'	STD SINGLE CATCH BASIN (S-30.01)	65.5'	1 INCH LOCAL DEPRESSION
EX-SS-4	203+88	17.8 LT	POTOMAC AVE	5.0'	ADJUST MANHOLE TO GRADE	66.28'	SEE NOTE 2 BELOW
EX-SS-17	303+20	41.2 RT	14TH STREET	5.0'	ADJUST MANHOLE TO GRADE	65.18'	SEE NOTE 1 BELOW
EX-SS-2	105+95	67.1 LT	PENNSYLVANIA AVE SE	5.0'	ADJUST MANHOLE TO GRADE	62.88'	SEE NOTE 1 BELOW
EX-SS-8	103+12	66.8 RT	PENNSYLVANIA AVE SE	5.0'	ADJUST MANHOLE TO GRADE	64.10'	SEE NOTE 1 BELOW
EX-SD-13	204+03	48.1 LT	POTOMAC AVE SE	-	INLET TO MANHOLE CONVERSION	65.27'	SEE NOTE 3 BELOW
EX-SD-11	103+28	91.4 LT	PENNSYLVANIA AVE SE	-	INLET TO MANHOLE CONVERSION	64.83'	SEE NOTE 3 BELOW
EX-SD-10	303+37	17.7 RT	14TH STREET	-	INLET TO MANHOLE CONVERSION	64.88'	SEE NOTE 3 BELOW
EX-SD-5	301+37	10.3 LT	14TH STREET	-	ADJUST MANHOLE TO GRADE	66.28	SEE NOTE 2 BELOW
EX-SD-12	303+20	64.0 RT	14TH STREET	-	STANDARD MANHOLE	65.23'	

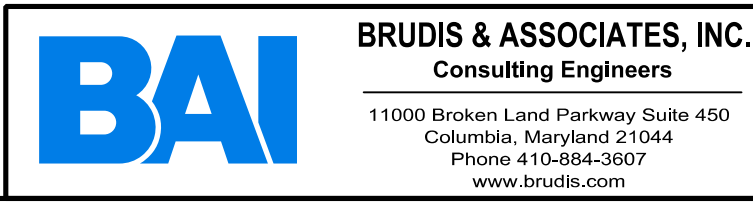
- ADJUST EXISTING SEWER MANHOLE TOP TO FINAL GRADE UTILIZING BRICK GRADE ADJUSTMENT COURSES PER DETAIL S-20.11.
- ADJUST EXISTING SEWER MANHOLE TOP TO FINAL GRADE. REMOVE EXISTING TRANSITION RISER, ADJUST BASE SECTION AS NEEDED, AND REINSTALL EXISTING TRANSITION RISER PER DETAIL S-20.11.
- CONVERT EXISTING INLET TO MANHOLE PER INLET TO MANHOLE CONVERSION DETAIL ON SHEET DD-02.

PIPE SCHEDULE							
FROM	TO	SIZE	TYPE	LENGTH	INV. IN	INV. OUT	REMARKS
I-2	EX-SS-2	15"	RCP, CLASS IV	8'	57.2'	57.0'	
I-6C	EX-SS-8	15"	RCP, CLASS IV	28'	57.16'	56.44'	
I-10	EX-SD-10	15"	RCP, CLASS IV	28'	60.6'	59.3'	
I-11	EX-SD-11	15"	RCP, CLASS IV	17'	60.4'	60.1'	
I-12	EX-SD-12	15"	RCP, CLASS IV	30'	60.3'	60.1'	
I-13	EX-SD-13	15"	RCP, CLASS IV	33'	60.75'	60.25'	



DATED: DECEMBER, 2022 SCALE: AS SHOWN **DP-01**
D.C. DEPARTMENT OF TRANSPORTATION
 INFRASTRUCTURE PROJECT MANAGEMENT DIVISION

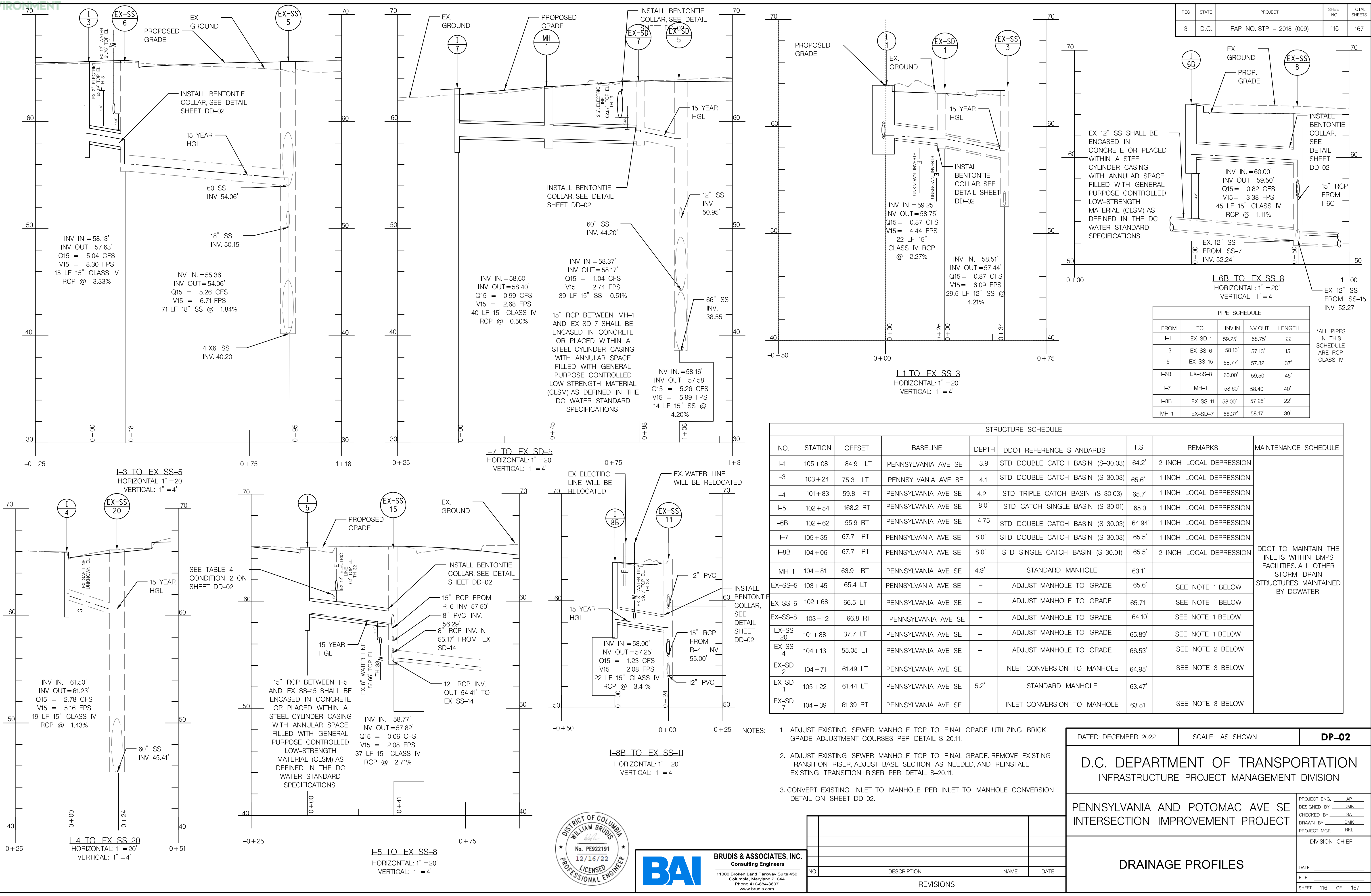
PENNSYLVANIA AND POTOMAC AVE SE INTERSECTION IMPROVEMENT PROJECT
 PROJECT ENG. SA
 DESIGNED BY DMK
 CHECKED BY SA
 DRAWN BY DMK
 PROJECT MGR. RKL
 DIVISION CHIEF
 DATE
 FILE
 SHEET 115 OF 167



NO.	DESCRIPTION	NAME	DATE

P:\17-005 DDOT AE Schedule\1_Pennsylvania Ave. Potomac Ave Improvements\Drawings\CADD\Working\DDP-V000_PennAve&PotomacAve.dgn
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REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.	FAP NO. STP - 2018 (009)	116	167



PIPE SCHEDULE

FROM	TO	INV. IN	INV. OUT	LENGTH
I-1	EX-SD-1	59.25'	58.75'	22'
I-3	EX-SS-6	58.13'	57.13'	15'
I-5	EX-SS-15	58.77'	57.82'	37'
I-6B	EX-SS-8	60.00'	59.50'	45'
I-7	MH-1	58.60'	58.40'	40'
I-8B	EX-SS-11	58.00'	57.25'	22'
MH-1	EX-SD-7	58.37'	58.17'	39'

*ALL PIPES IN THIS SCHEDULE ARE RCP CLASS IV

STRUCTURE SCHEDULE

NO.	STATION	OFFSET	BASELINE	DEPTH	DDOT REFERENCE STANDARDS	T.S.	REMARKS	MAINTENANCE SCHEDULE
I-1	105+08	84.9 LT	PENNSYLVANIA AVE SE	3.9'	STD DOUBLE CATCH BASIN (S-30.03)	64.2'	2 INCH LOCAL DEPRESSION	DDOT TO MAINTAIN THE INLETS WITHIN BMPS FACILITIES. ALL OTHER STORM DRAIN STRUCTURES MAINTAINED BY DCWATER.
I-3	103+24	75.3 LT	PENNSYLVANIA AVE SE	4.1'	STD DOUBLE CATCH BASIN (S-30.03)	65.6'	1 INCH LOCAL DEPRESSION	
I-4	101+83	59.8 RT	PENNSYLVANIA AVE SE	4.2'	STD TRIPLE CATCH BASIN (S-30.03)	65.7'	1 INCH LOCAL DEPRESSION	
I-5	102+54	168.2 RT	PENNSYLVANIA AVE SE	8.0'	STD CATCH SINGLE BASIN (S-30.01)	65.0'	1 INCH LOCAL DEPRESSION	
I-6B	102+62	55.9 RT	PENNSYLVANIA AVE SE	4.75'	STD DOUBLE CATCH BASIN (S-30.03)	64.94'	1 INCH LOCAL DEPRESSION	
I-7	105+35	67.7 RT	PENNSYLVANIA AVE SE	8.0'	STD DOUBLE CATCH BASIN (S-30.03)	65.5'	1 INCH LOCAL DEPRESSION	
I-8B	104+06	67.7 RT	PENNSYLVANIA AVE SE	8.0'	STD SINGLE CATCH BASIN (S-30.01)	65.5'	2 INCH LOCAL DEPRESSION	
MH-1	104+81	63.9 RT	PENNSYLVANIA AVE SE	4.9'	STANDARD MANHOLE	63.1'		
EX-SS-5	103+45	65.4 LT	PENNSYLVANIA AVE SE	-	ADJUST MANHOLE TO GRADE	65.6'	SEE NOTE 1 BELOW	
EX-SS-6	102+68	66.5 LT	PENNSYLVANIA AVE SE	-	ADJUST MANHOLE TO GRADE	65.71'	SEE NOTE 1 BELOW	
EX-SS-8	103+12	66.8 RT	PENNSYLVANIA AVE SE	-	ADJUST MANHOLE TO GRADE	64.10'	SEE NOTE 1 BELOW	
EX-SS-20	101+88	37.7 LT	PENNSYLVANIA AVE SE	-	ADJUST MANHOLE TO GRADE	65.89'	SEE NOTE 1 BELOW	
EX-SS-4	104+13	55.05 LT	PENNSYLVANIA AVE SE	-	ADJUST MANHOLE TO GRADE	66.53'	SEE NOTE 2 BELOW	
EX-SD-2	104+71	61.49 LT	PENNSYLVANIA AVE SE	-	INLET CONVERSION TO MANHOLE	64.95'	SEE NOTE 3 BELOW	
EX-SD-1	105+22	61.44 LT	PENNSYLVANIA AVE SE	5.2'	STANDARD MANHOLE	63.47'		
EX-SD-7	104+39	61.39 RT	PENNSYLVANIA AVE SE	-	INLET CONVERSION TO MANHOLE	63.81'	SEE NOTE 3 BELOW	

- NOTES:
- ADJUST EXISTING SEWER MANHOLE TOP TO FINAL GRADE UTILIZING BRICK GRADE ADJUSTMENT COURSES PER DETAIL S-20.11.
 - ADJUST EXISTING SEWER MANHOLE TOP TO FINAL GRADE. REMOVE EXISTING TRANSITION RISER, ADJUST BASE SECTION AS NEEDED, AND REINSTALL EXISTING TRANSITION RISER PER DETAIL S-20.11.
 - CONVERT EXISTING INLET TO MANHOLE PER INLET TO MANHOLE CONVERSION DETAIL ON SHEET DD-02.

DATED: DECEMBER, 2022 SCALE: AS SHOWN **DP-02**

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT DIVISION

PENNSYLVANIA AND POTOMAC AVE SE INTERSECTION IMPROVEMENT PROJECT

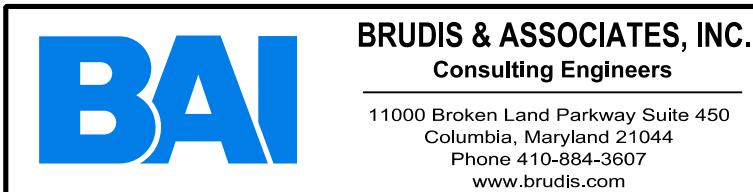
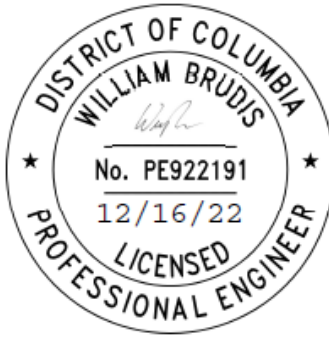
DRAINAGE PROFILES

PROJECT ENG. _____ AP
DESIGNED BY _____ DMK
CHECKED BY _____ SA
DRAWN BY _____ DMK
PROJECT MGR. _____ RLK

DIVISION CHIEF

DATE _____
FILE _____

SHEET 116 OF 167

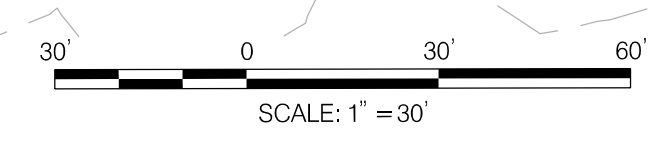
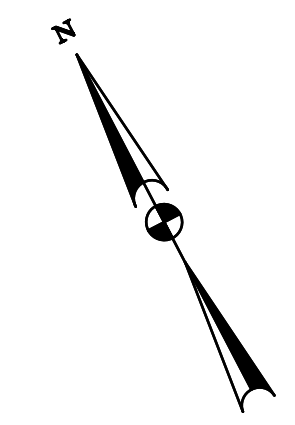
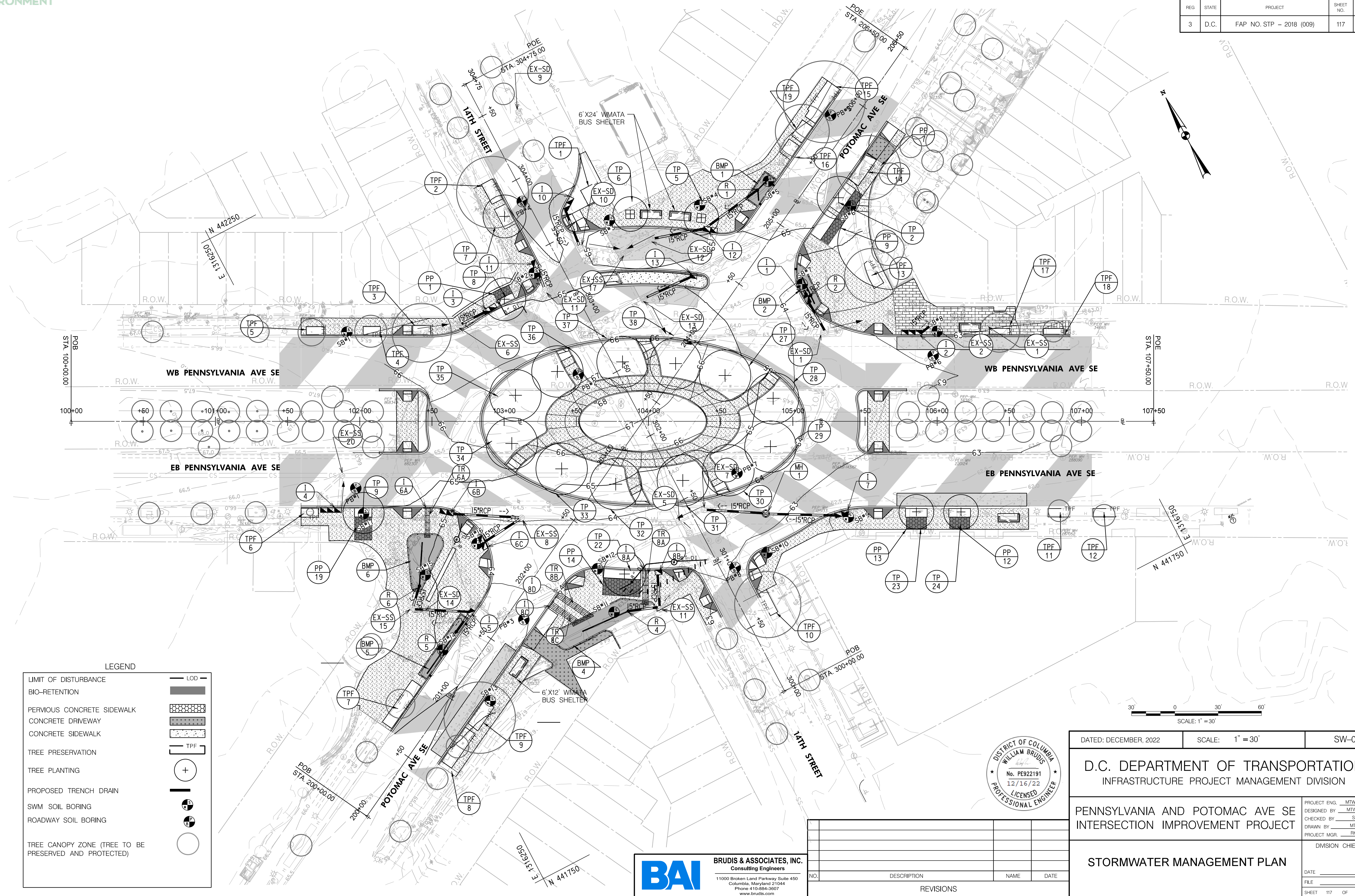


NO.	DESCRIPTION	NAME	DATE

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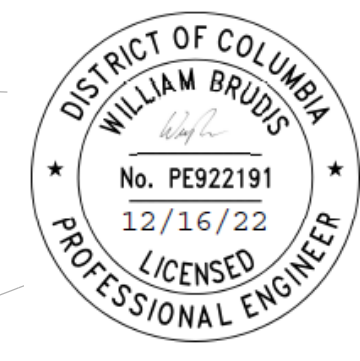
REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.	FAP NO. STP - 2018 (009)	117	167

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LEGEND

LIMIT OF DISTURBANCE	— LOD —
BIO-RETENTION	[Pattern]
PERVIOUS CONCRETE SIDEWALK	[Pattern]
CONCRETE DRIVEWAY	[Pattern]
CONCRETE SIDEWALK	[Pattern]
TREE PRESERVATION	— TPF —
TREE PLANTING	(+)
PROPOSED TRENCH DRAIN	[Symbol]
SWM SOIL BORING	(SB#)
ROADWAY SOIL BORING	(R#)
TREE CANOPY ZONE (TREE TO BE PRESERVED AND PROTECTED)	(O)



DATED: DECEMBER, 2022	SCALE: 1" = 30'	SW-01
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D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT DIVISION

PENNSYLVANIA AND POTOMAC AVE SE
INTERSECTION IMPROVEMENT PROJECT

STORMWATER MANAGEMENT PLAN

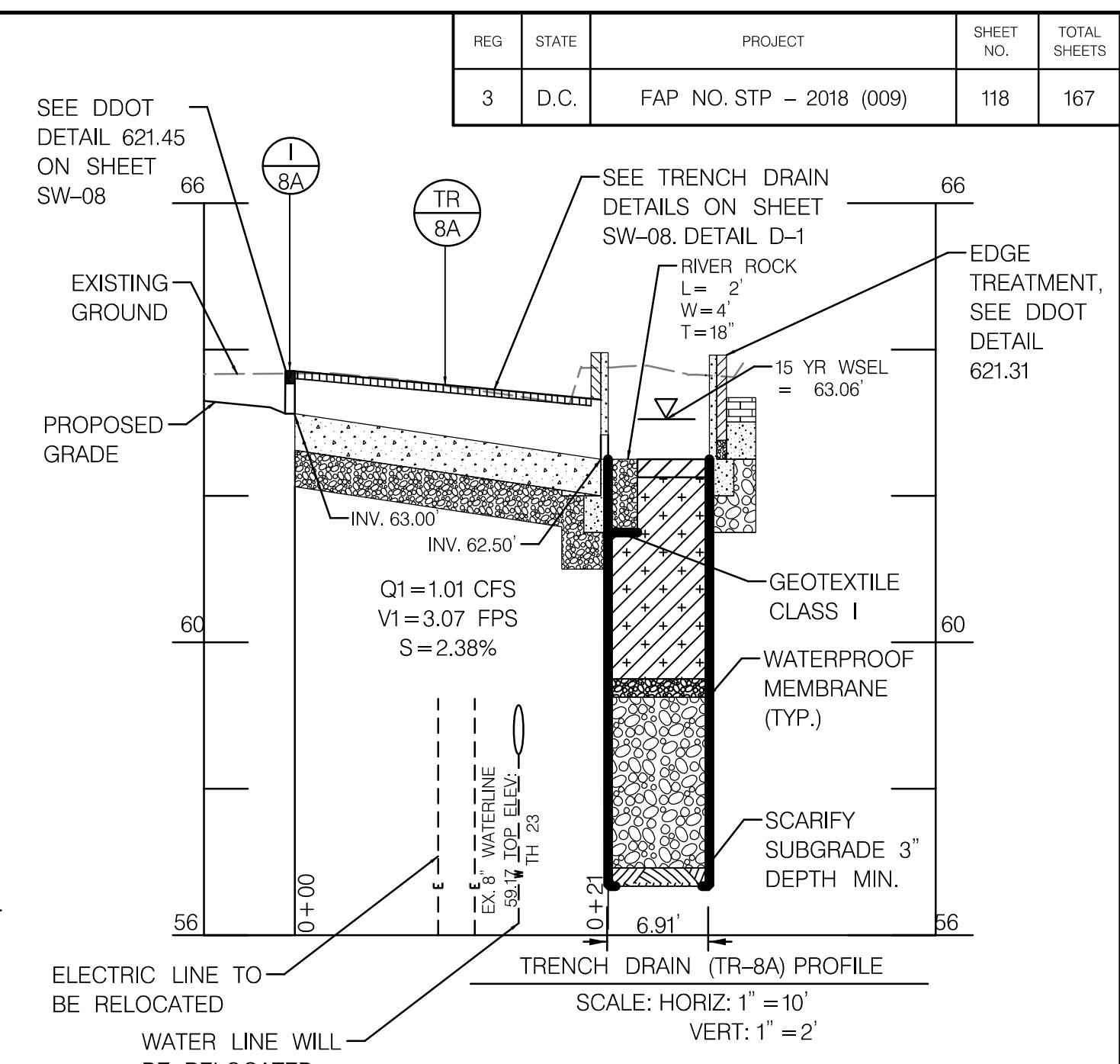
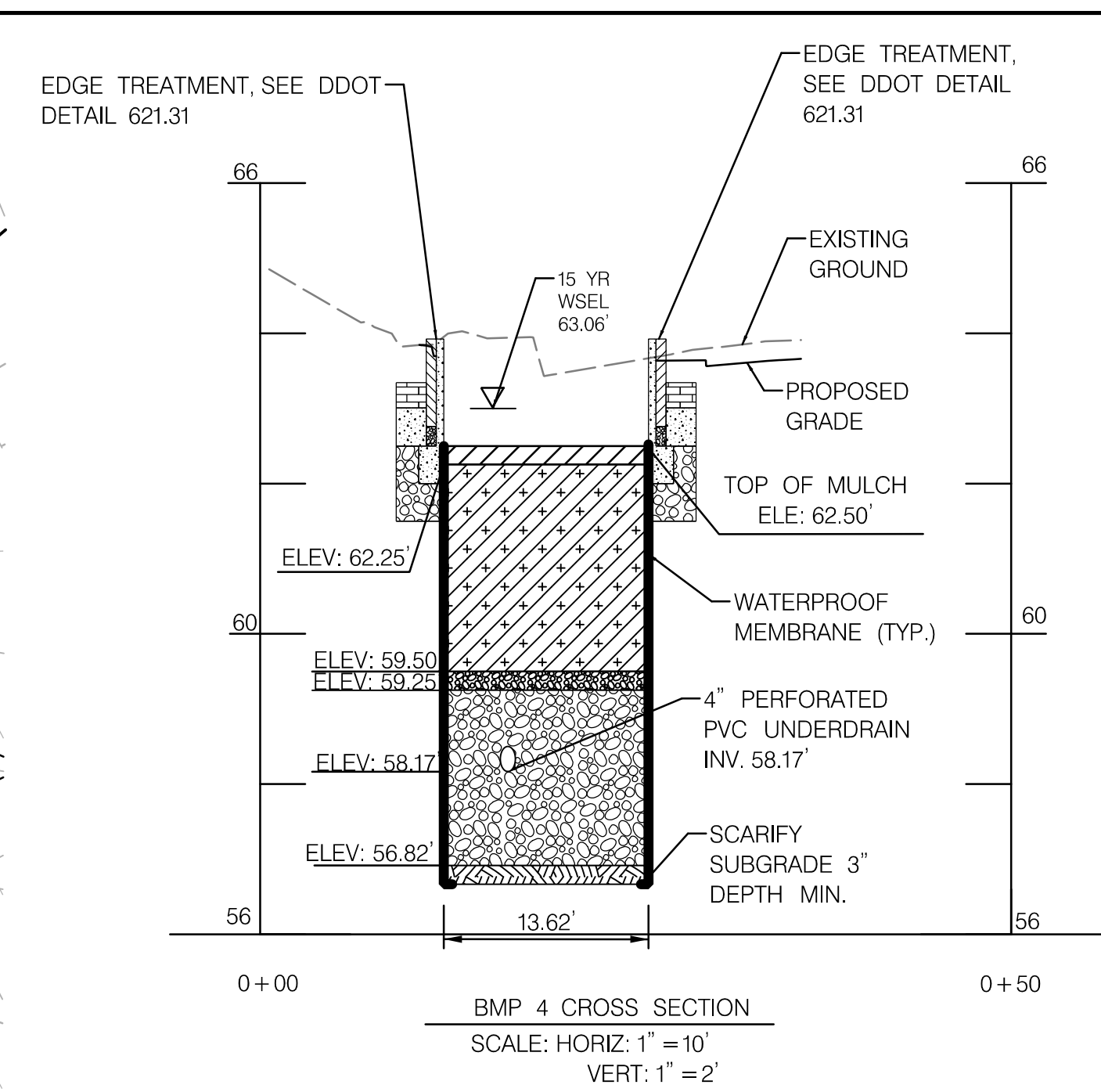
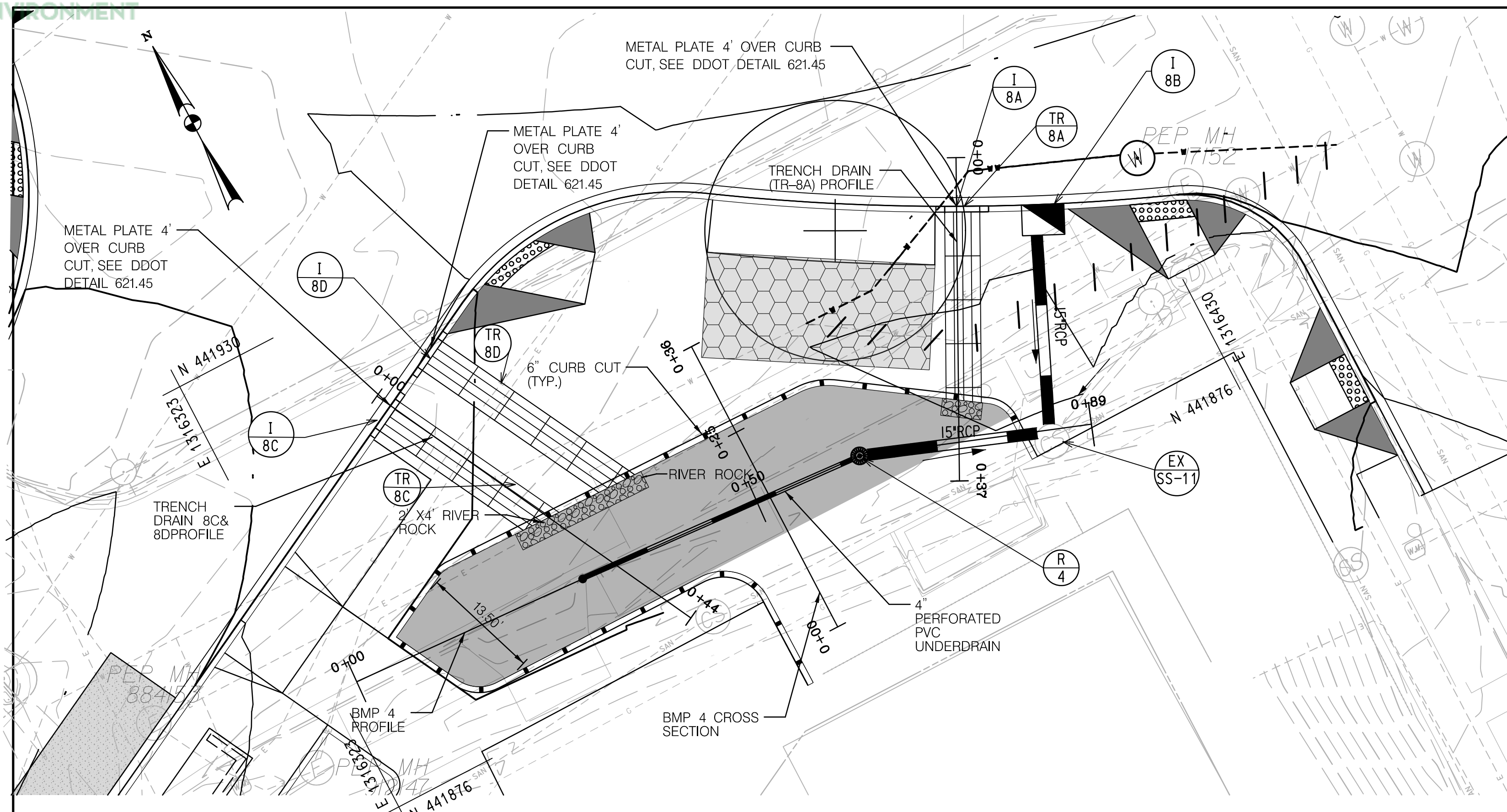
DIVISION CHIEF

DATE _____
FILE _____
SHEET 117 OF 167

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Consulting Engineers
11000 Broken Land Parkway Suite 450
Columbia, Maryland 21044
Phone 410-884-3607
www.brudis.com

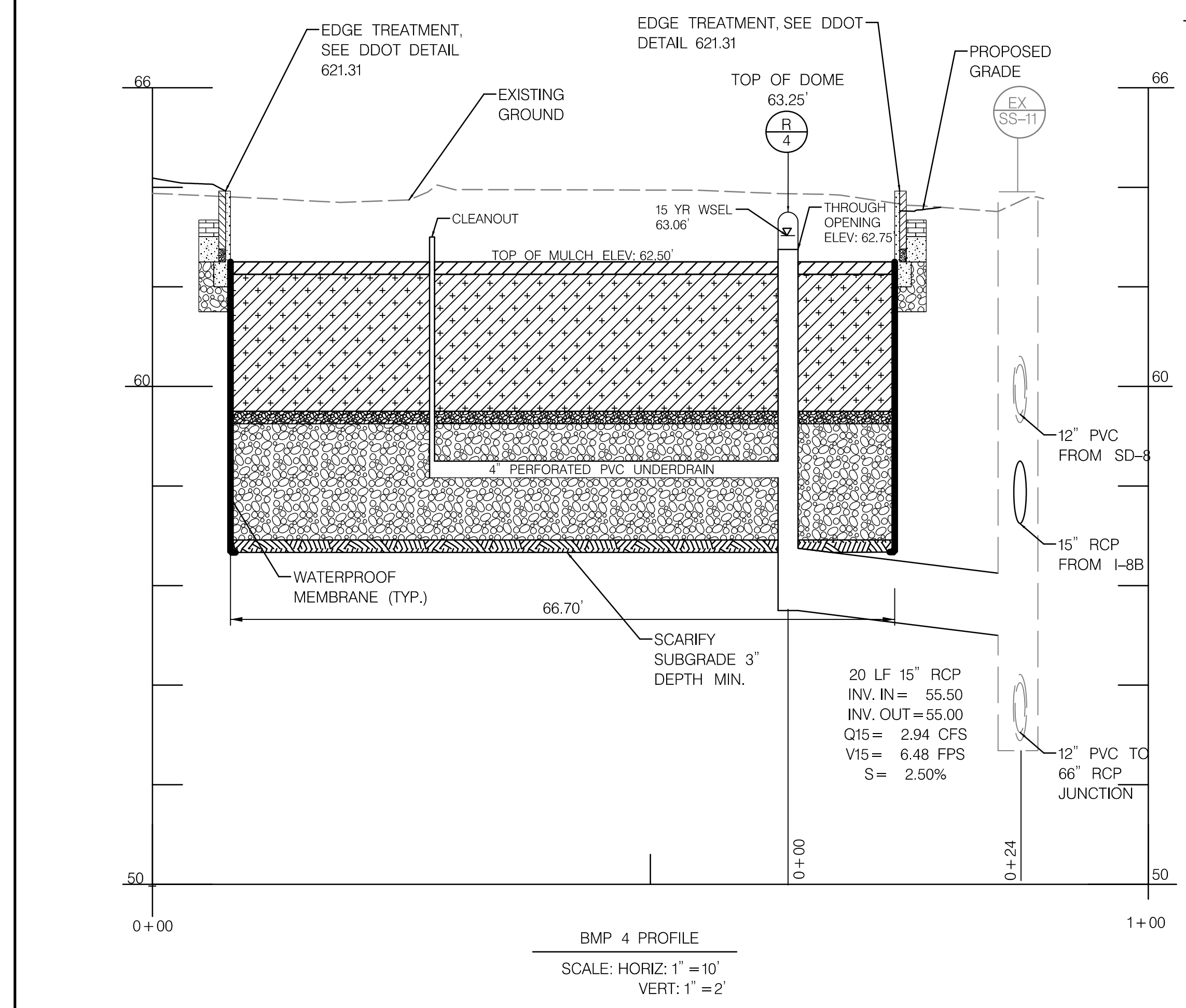
NO.	DESCRIPTION	NAME	DATE
REVISIONS			

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.	FAP NO. STP - 2018 (009)	118	167



FROM	TO	TYPE	LENGTH	INV. IN	INV. OUT	REMARKS*
TR-8A	BMP-4	PRE-CAST CONCRETE	21'	64.58'	63.80'	4 - 12" WIDE TRENCH DRAINS
TR-8C	BMP-4	PRE-CAST CONCRETE	25'	63.55'	62.50'	4 - 12" WIDE TRENCH DRAINS
TR-8D	BMP-4	PRE-CAST CONCRETE	25'	63.55'	62.50'	4 - 12" WIDE TRENCH DRAINS

*NOTE: INSTALL NUMBER AND SIZE OF TRENCH DRAINS OR EQUIVALENT TO MATCH CURB CUT WIDTH SPECIFIED ON PLANS.

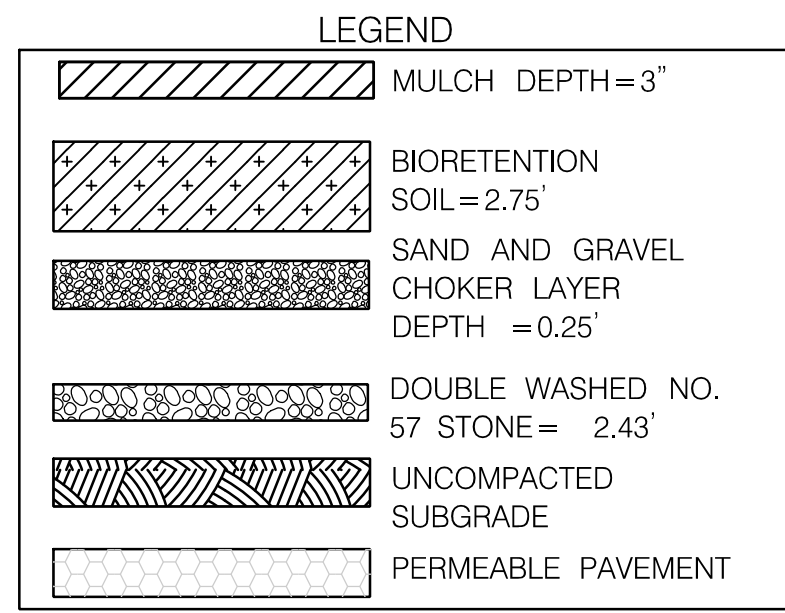


BMP 4 PLAN VIEW
SCALE: 1" = 10'

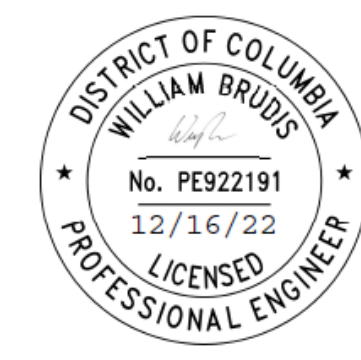
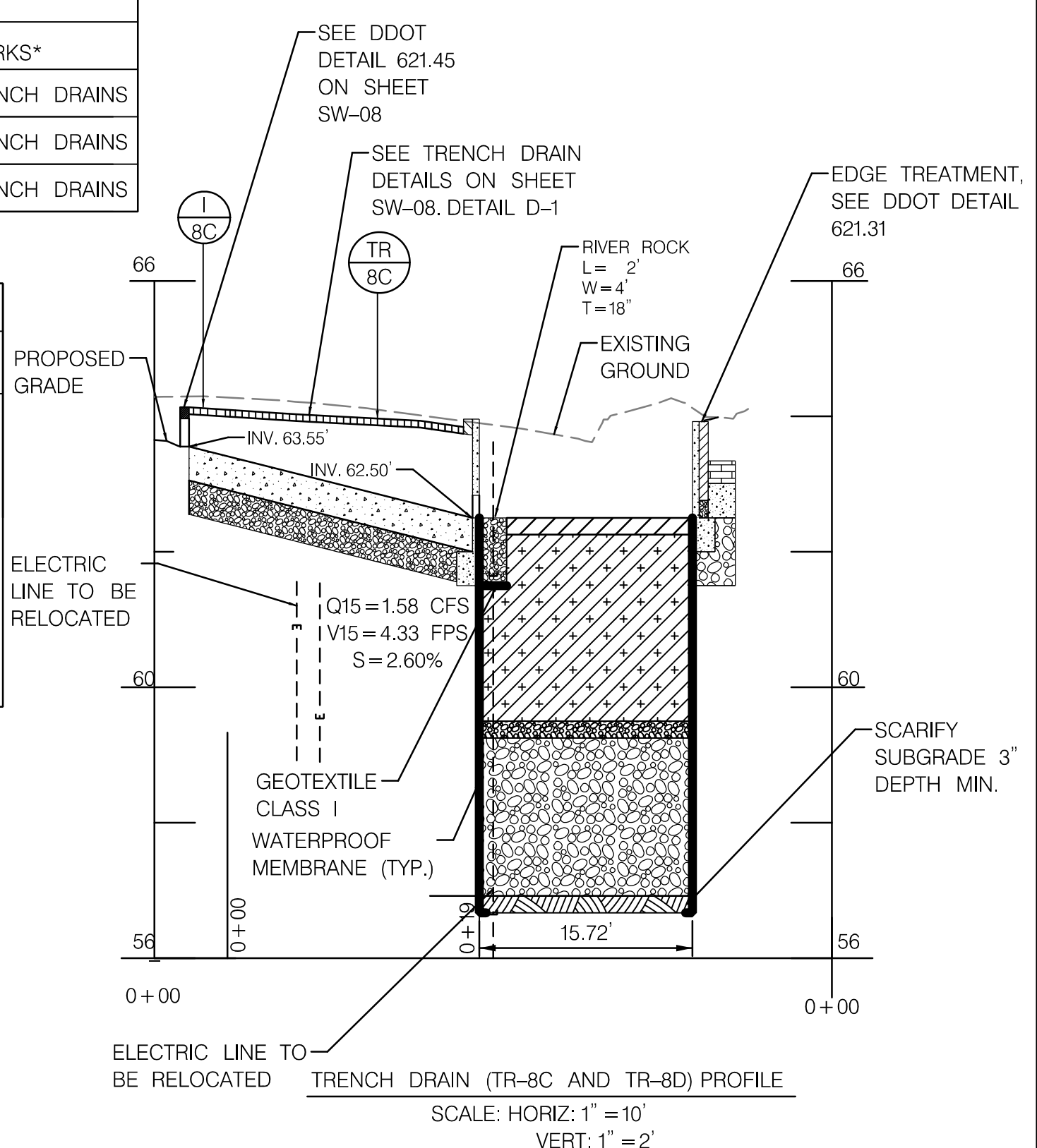
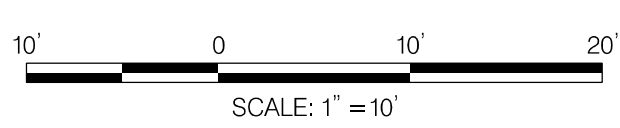
NO.	STATION	OFFSET	BASELINE	DEPTH	DDOT STANDARD TYPE	T.S.	REMARKS	MAINTENANCE SCHEDULE
R-4	202+28	71.9' RT	PENNSYLVANIA AVE SE	7.85'	DDOT 621.50	63.25'		MAINTAINED BY DDOT
I-8A	202+50	60' RT	PENNSYLVANIA AVE SE	2.0'	DDOT 621.45	63.7'	INSTALL 1" LOCAL DEPRESSION ALONG GUTTER PAN	
I-8C	202+10	20' RT	PENNSYLVANIA AVE SE	2.0'	DDOT 621.45	64.00'	INSTALL 2" LOCAL DEPRESSION ALONG GUTTER PAN	
I-8D	201+90	20' RT	PENNSYLVANIA AVE SE	2.0'	DDOT 621.45	64.00'	INSTALL 2" LOCAL DEPRESSION ALONG GUTTER PAN	

NO.	STATION	OFFSET	BASELINE	DEPTH	DDOT STANDARD TYPE	T.S.	REMARKS
CO-1	201+91	49' RT	PENNSYLVANIA AVE SE	4.0'	6" PVC	63.00'	

FROM	TO	SIZE	TYPE	LENGTH	INV. IN	INV. OUT	REMARKS
R-4	EXSS-11	15"	RCP, CLASS IV, B	20'	55.50'	55.00'	



NOTES:
SCARIFY BOTTOM OF FACILITY BEFORE INSTALLATION
SOIL BORING ANALYSES INDICATED WATER TABLE TO BE GREATER THAN 10" BELOW GROUND.



NO.	DESCRIPTION	NAME	DATE
REVISIONS			

DATED: DECEMBER, 2022 SCALE: 1" = 10" **SW-02**

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT DIVISION

PENNSYLVANIA AND POTOMAC AVE SE INTERSECTION IMPROVEMENT PROJECT

SWM PLAN - BMP 4

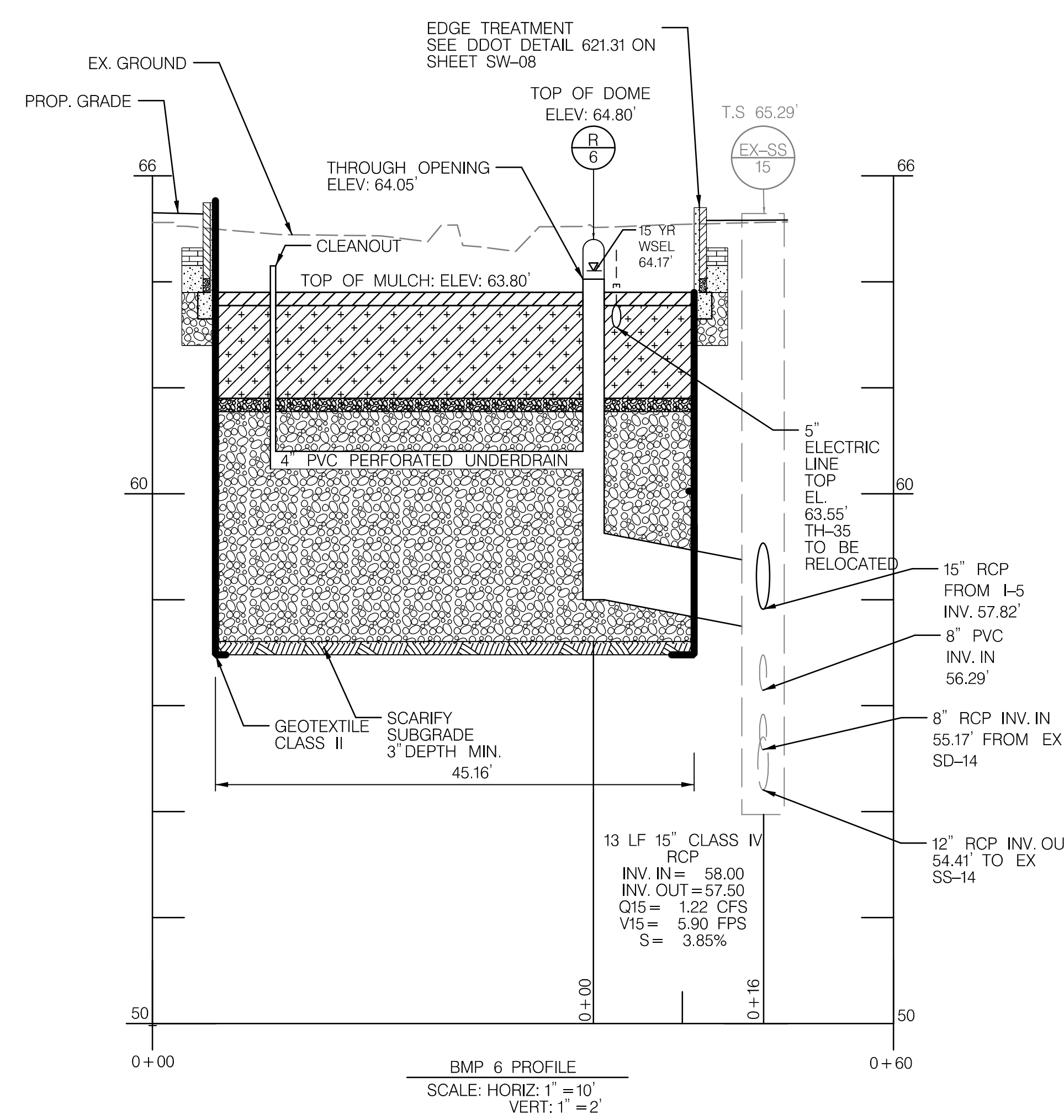
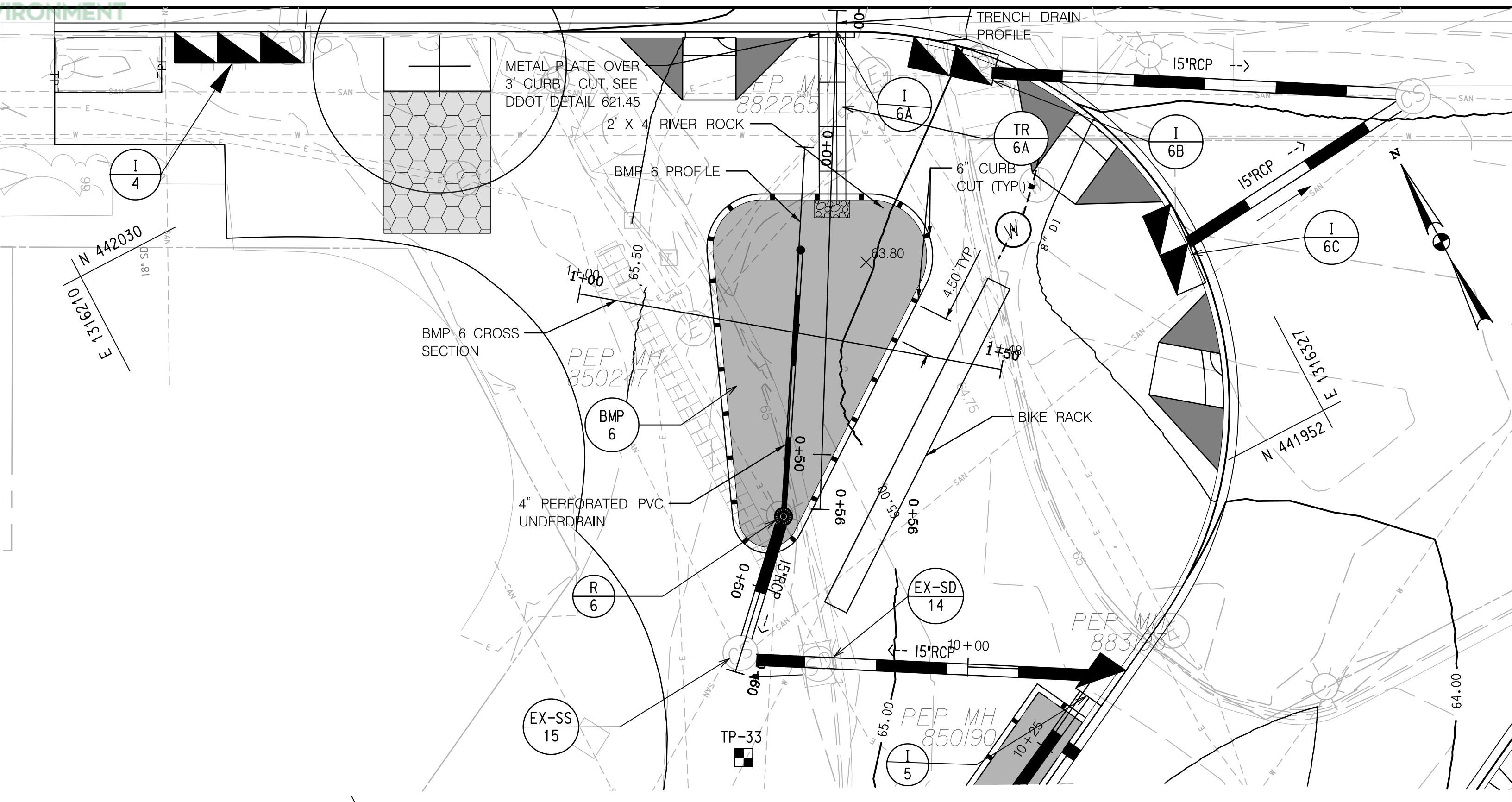
PROJECT ENG. _____ AP
DESIGNED BY _____ DMK
CHECKED BY _____ SA
DRAWN BY _____ DMK
PROJECT MGR. _____ AP

DIVISION CHIEF

DATE _____
FILE _____
SHEET 118 OF 167

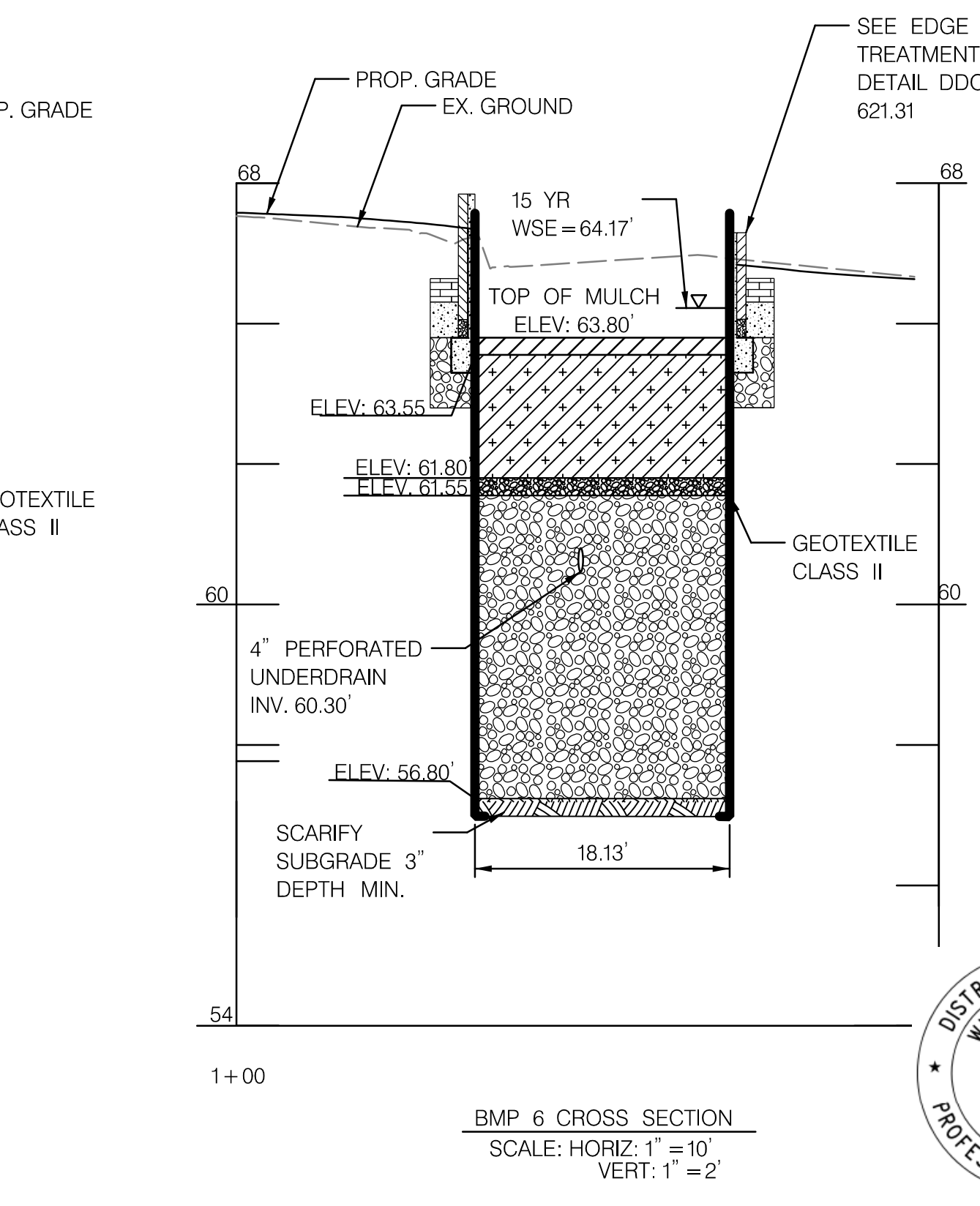
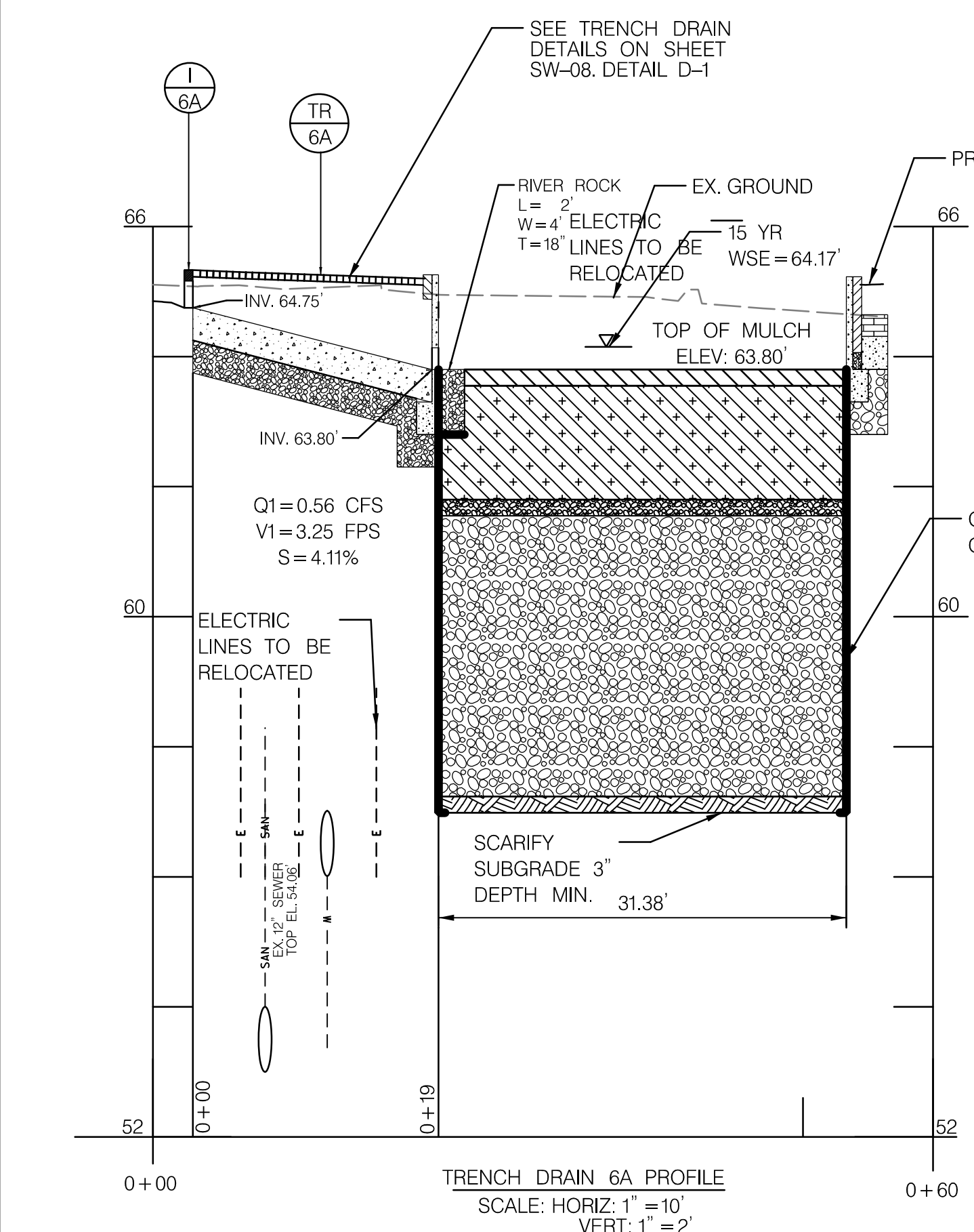
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REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.	TRAP NO. STP - 2018 (009)	119	167



LEGEND

- MULCH DEPTH = 3"
- BIORETENTION SOIL = 1.75'
- SAND AND GRAVEL CHOKER LAYER DEPTH = 0.25'
- DOUBLE WASHED NO. 57 STONE = 4.75'
- UNCOMPACTED SUBGRADE
- PERMEABLE PAVEMENT



STRUCTURE SCHEDULE

NO.	STATION	OFFSET	BASELINE	DEPTH	DDOT STANDARD TYPE	T.S.	REMARKS	MAINTENANCE SCHEDULE
R-6	201+51	61.4 LT	POTOMAC AVE	8.05'	24" PVC, DDOT DWG 621.50	64.80'		MAINTAINED BY DDOT
I-6A	201+51	61.4 LT	POTOMAC AVE		CURB CUT, DDOT DWG 621.45		1" LOCAL DEPRESSION	MAINTAINED BY DDOT

CLEANOUT SCHEDULE

NO.	STATION	OFFSET	BASELINE	DEPTH	DDOT STANDARD TYPE	T.S.	REMARKS
CO-2	201+91	77' LT	PENNSYLVANIA AVE SE	4.0'	6" PVC	64.30'	

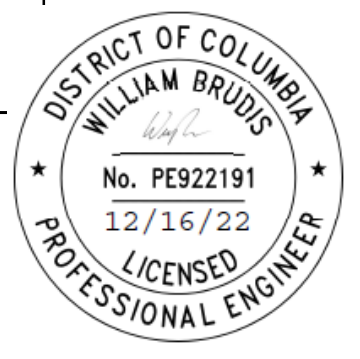
PIPE SCHEDULE

FROM	TO	SIZE	TYPE	LENGTH	INV. IN	INV. OUT	REMARKS
R-6	EX-SS-15	15"	RCP, CLASS IV	13'	56.50'	56.00'	

TRENCH DRAIN SCHEDULE

FROM	TO	TYPE	LENGTH	INV. IN	INV. OUT	REMARKS*
TR-6A	BMP-6	PRE-CAST CONCRETE	19'	64.75'	63.80'	3 - 12" WIDE TRENCH DRAIN

*NOTE: INSTALL NUMBER AND SIZE OF TRENCH DRAINS OR EQUIVALENT TO MATCH CURB CUT WIDTH SPECIFIED ON PLANS.



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REVISIONS

NO.	DESCRIPTION	NAME	DATE

DATED: DECEMBER, 2022 SCALE: 1" = 10' **SW-03**

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT DIVISION

PENNSYLVANIA AND POTOMAC AVE SE
INTERSECTION IMPROVEMENT PROJECT

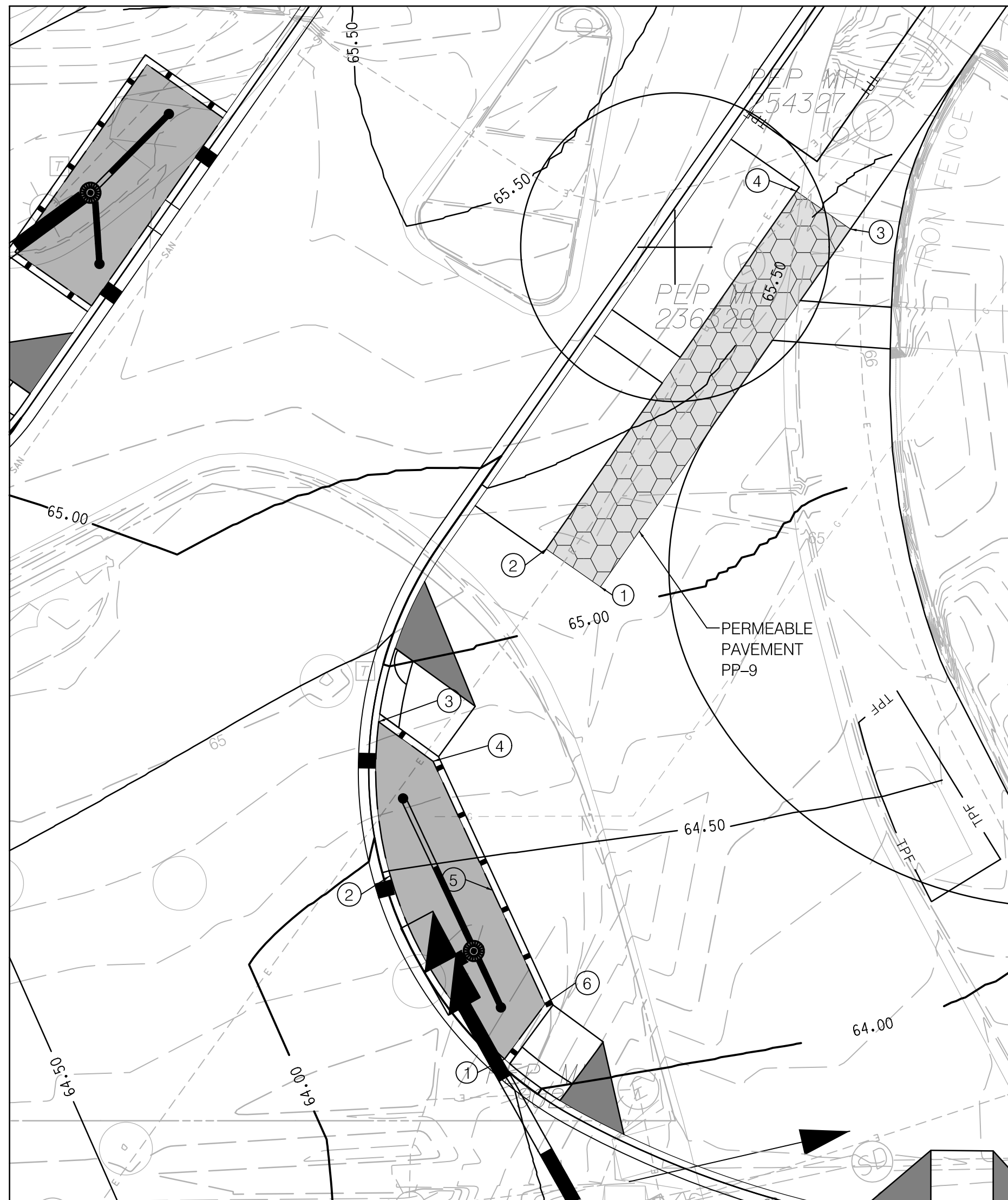
SWM PLAN - BMP 6

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CHECKED BY _____ SA
DRAWN BY _____ DMK
PROJECT MGR. _____ RKL

DIVISION CHIEF

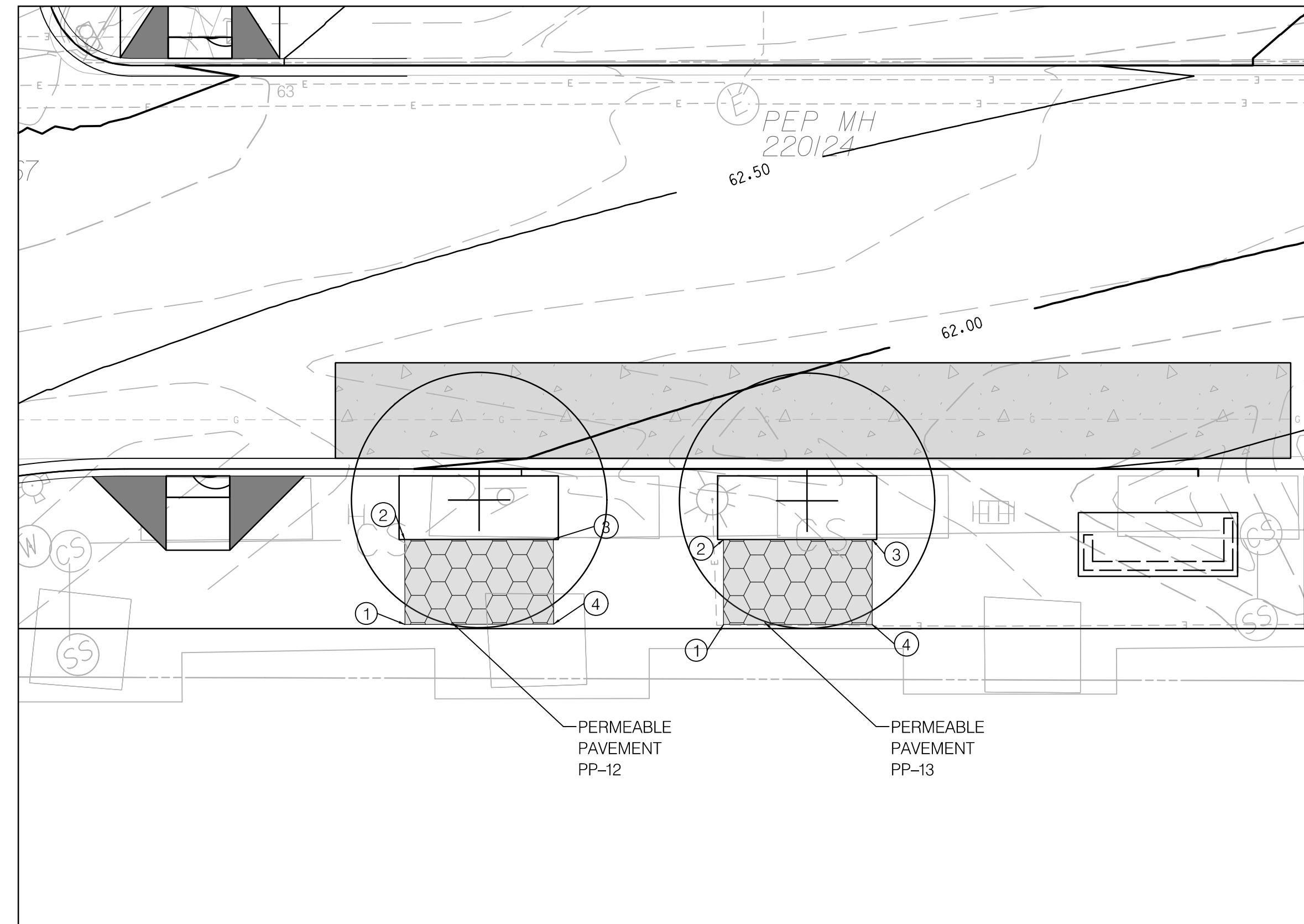
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FILE _____
SHEET 119 OF 167

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NO	STATION	OFFSET(FT)	NORTHING	EASTING
1	207 + 51	28 RT	442053.7932	1316625.0826
2	207 + 51	35 RT	442048.1569	1316628.0179
3	205 + 49	28 RT	442073.1930	1316662.3338
4	205 + 46	35 RT	442067.5567	1316665.2691

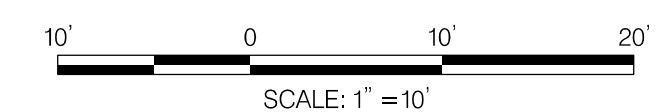
NO	STATION	OFFSET(FT)	NORTHING	EASTING
1	204 + 65	53 RT	442012.1406	1316598.8303
2	204 + 71	53 RT	442015.0258	1316604.7274
3	204 + 73	34 RT	442032.8755	1316597.2384
4	204 + 77	43 RT	442027.0717	1316605.3150
5	204 + 84	51 RT	442040.7234	1316605.9808
6	204 + 84	25 RT	442046.5150	1316603.0983



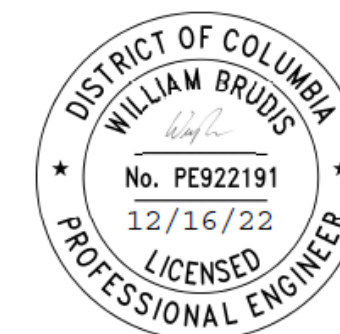
PERVIOUS CONCRETE AND BMP STAKEOUT
SCALE: 1" = 10'

NO	STATION	OFFSET(FT)	NORTHING	EASTING
1	105 + 78	66 RT	441855.8507	1316588.7680
2	105 + 78	74 RT	441848.7454	1316585.0917
3	105 + 92	66 RT	441849.4173	1316601.2022
4	105 + 92	74 RT	441842.3120	1316597.5260

NO	STATION	OFFSET(FT)	NORTHING	EASTING
1	106 + 08	74 RT	441834.8667	1316611.7057
2	106 + 08	66 RT	441841.9603	1316615.4044
3	106 + 22	74 RT	441828.3939	1316624.1195
4	106 + 22	66 RT	441835.4875	1316627.8182



DATED: DECEMBER, 2022	SCALE: 1" = 10'	SW-04
D.C. DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT DIVISION		
PENNSYLVANIA AND POTOMAC AVE SE INTERSECTION IMPROVEMENT PROJECT		PROJECT ENG. _____ DESIGNED BY _____ CHECKED BY _____ DRAWN BY _____ PROJECT MGR. _____
SWM STAKE OUT PLAN BMP 2 PP-9, PP-12, PP-13		DIVISION CHIEF DATE _____ FILE _____ SHEET 120 OF 167



BAI BRUDIS & ASSOCIATES, INC.
Consulting Engineers
11000 Broken Land Parkway Suite 450
Columbia, Maryland 21044
Phone 410-884-3607
www.brudis.com

NO.	DESCRIPTION	NAME	DATE

P:\17-005 DDOT AE Schedule\1_Pennsylvania Ave, Potomac Ave Improvements\CADD\Working\DW-0004_Penn Ave & Potomac Ave.dgn 2/17/2023

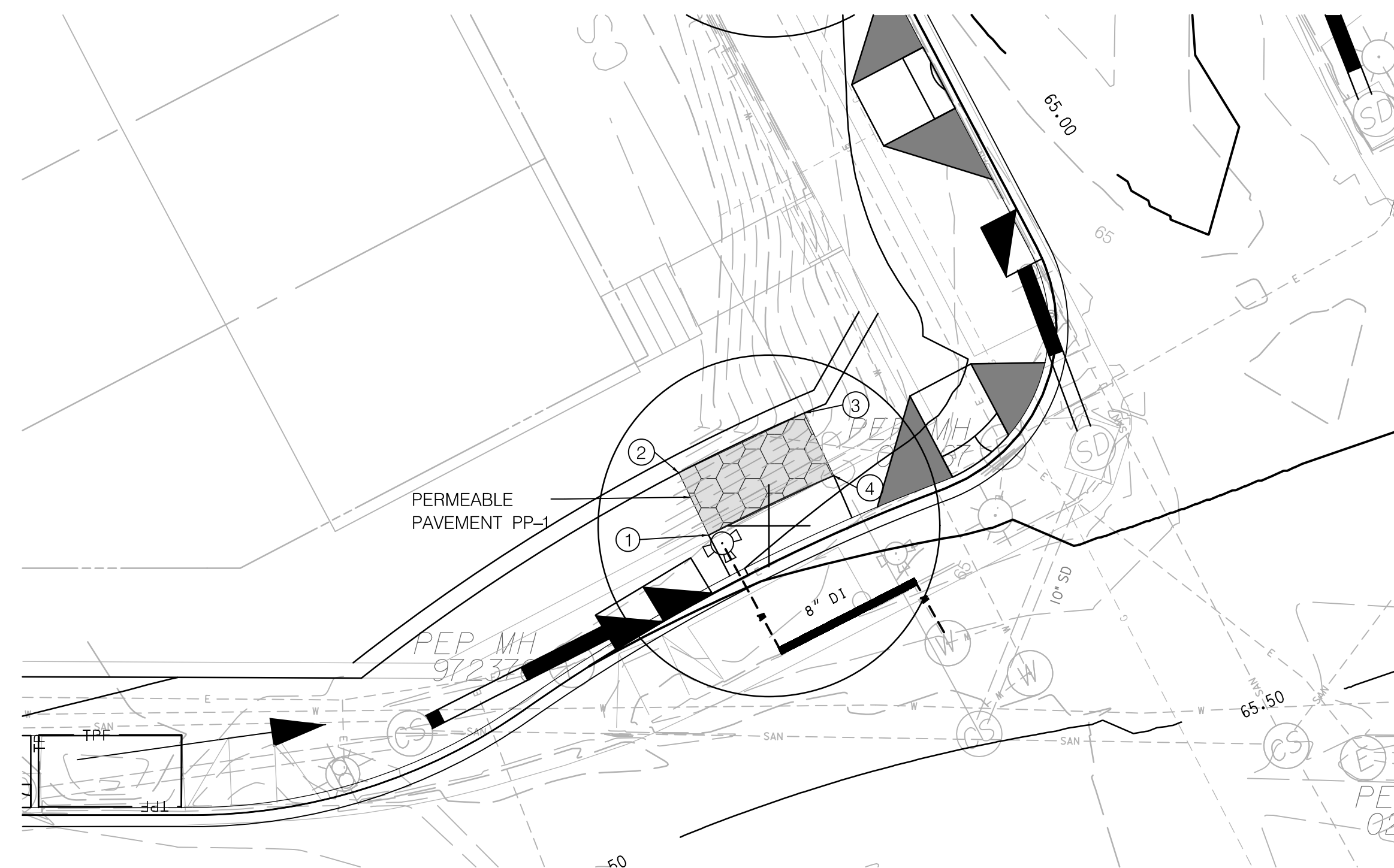
REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.	FAP NO. STP - 2018 (009)	121	167



POTOMAC AVE BASELINE STATION OFFSETS (BMP-4)
SCALE: 1" = 10'

NO	STATION	OFFSET (FT)	NORTHING	EASTING
1	201+73	36 RT	441893.2938	1316331.6823
2	201+73	44 RT	441885.7420	1316335.6186
3	201+74	47 RT	441883.9161	1316337.4350
4	201+75	48 RT	441883.4147	1316339.4443
5	201+82	36 RT	441897.3041	1316339.4109
6	202+07	49 RT	441897.0772	1316368.2601
7	202+24	58 RT	441896.5275	1316387.1374
8	202+25	60 RT	441895.5130	1316389.3556
9	202+34	79 RT	441883.1538	1316405.2987
10	202+34	77 RT	441884.9252	1316404.6400

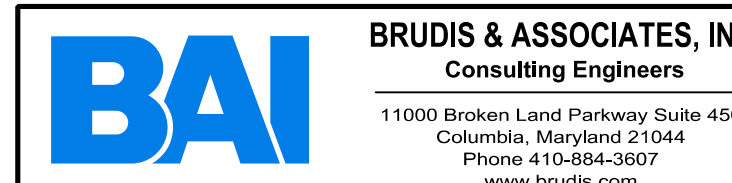
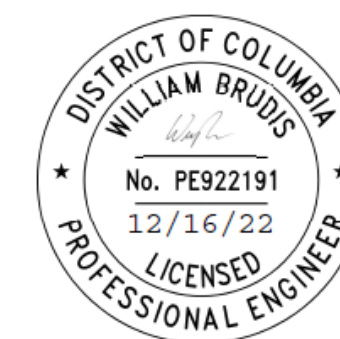
NO	STATION	OFFSET (FT)	NORTHING	EASTING
1	201+47	62 LT	441967.5868	1316263.9812
2	201+48	65 LT	441971.4236	1316262.9895
3	201+51	60 LT	441967.4701	1316268.0188
4	201+71	85 LT	441999.3919	1316274.3023
5	201+76	86 LT	442002.6704	1316278.0929
6	201+79	84 LT	442002.2049	1316281.9397
7	201+82	64 LT	441985.7990	1316293.5437
8	201+86	74 LT	441996.5536	1316292.7782
9	201+87	68 LT	441992.0170	1316296.0894



NO	STATION	OFFSET (FT)	NORTHING	EASTING
1	201+52	117 LT	442018.5289	1316242.5028
2	201+58	107 LT	442012.9808	1316253.1432
3	201+65	126 LT	442032.7162	1316249.9002
4	201+72	116 LT	442027.1681	1316260.5407

NO	STATION	OFFSET (FT)	NORTHING	EASTING
1	303+32	39 LT	442119.7879	1316418.7120
2	303+32	51 LT	442120.2207	1316406.6654
3	303+37	38 LT	442125.7878	1316418.9275
4	303+38	50 LT	442126.2206	1316406.8810

NO	STATION	OFFSET (FT)	NORTHING	EASTING
1	202+19	46 RT	441905.4702	1316377.2582
2	202+29	39 RT	441915.7902	1316383.3817
3	202+33	68 RT	441892.2027	1316399.6183
4	202+43	62 RT	441902.5227	131605.7418



DATED: DECEMBER, 2022 SCALE: 1" = 10' **SW-05**

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT DIVISION

PENNSYLVANIA AND POTOMAC AVE SE
INTERSECTION IMPROVEMENT PROJECT

SWM STAKE OUT PLAN
BMP 4, BMP 6
PP-1, PP-14, PP-19

PROJECT ENG. _____ BK
DESIGNED BY _____ BK / RKL
CHECKED BY _____ RKL
DRAWN BY _____ RKL
PROJECT MGR. _____ RKL
DIVISION CHIEF
DATE _____
FILE _____
SHEET 121 OF 167

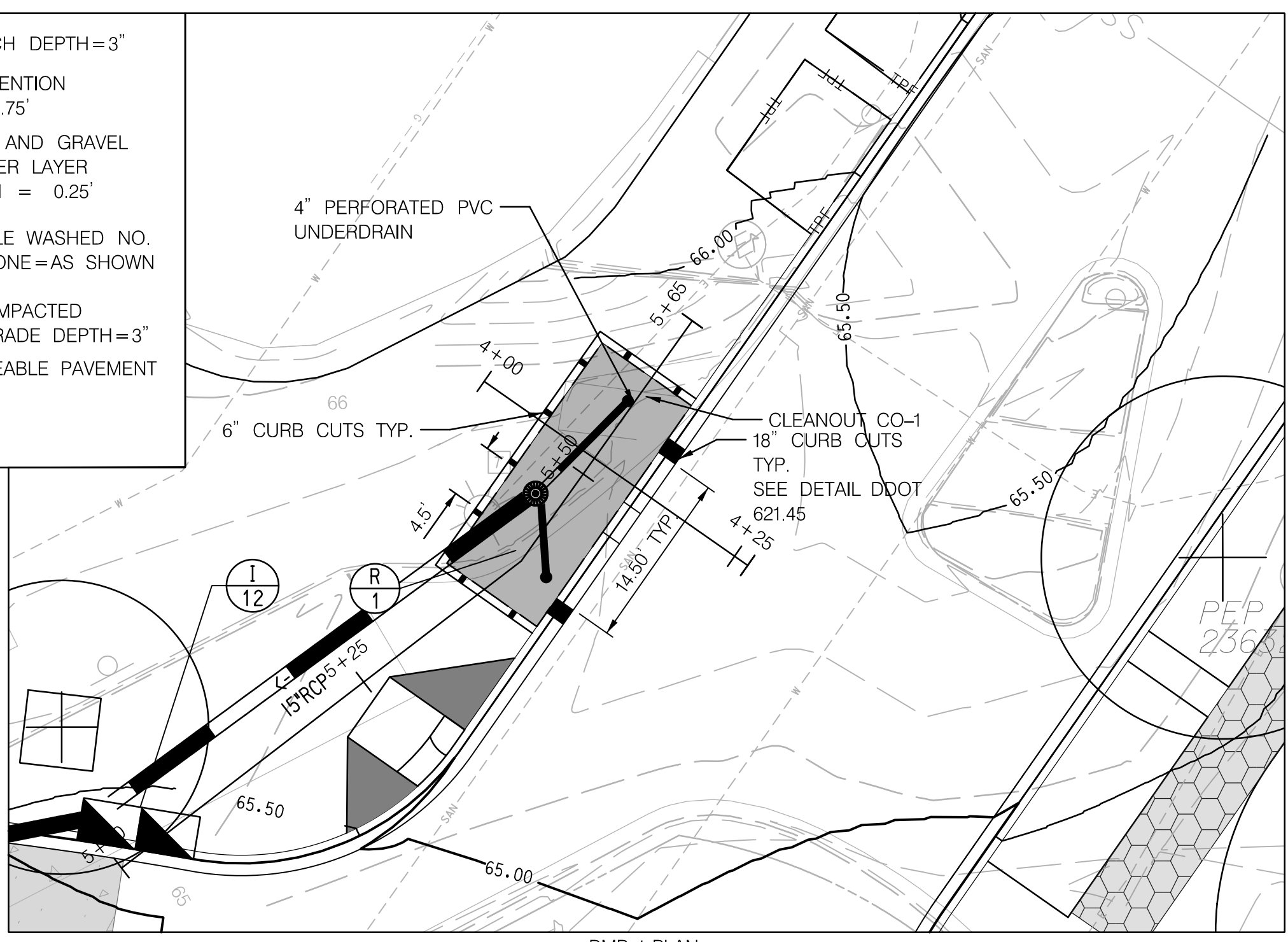
NO.	DESCRIPTION	NAME	DATE

P:\17-005-DDOT-AE-Schedule\1_Pennsylvania Ave Improvements\Drawings\CADD\Working\DW-0005_Penn Ave & Potomac Ave.dgn 2/17/2023

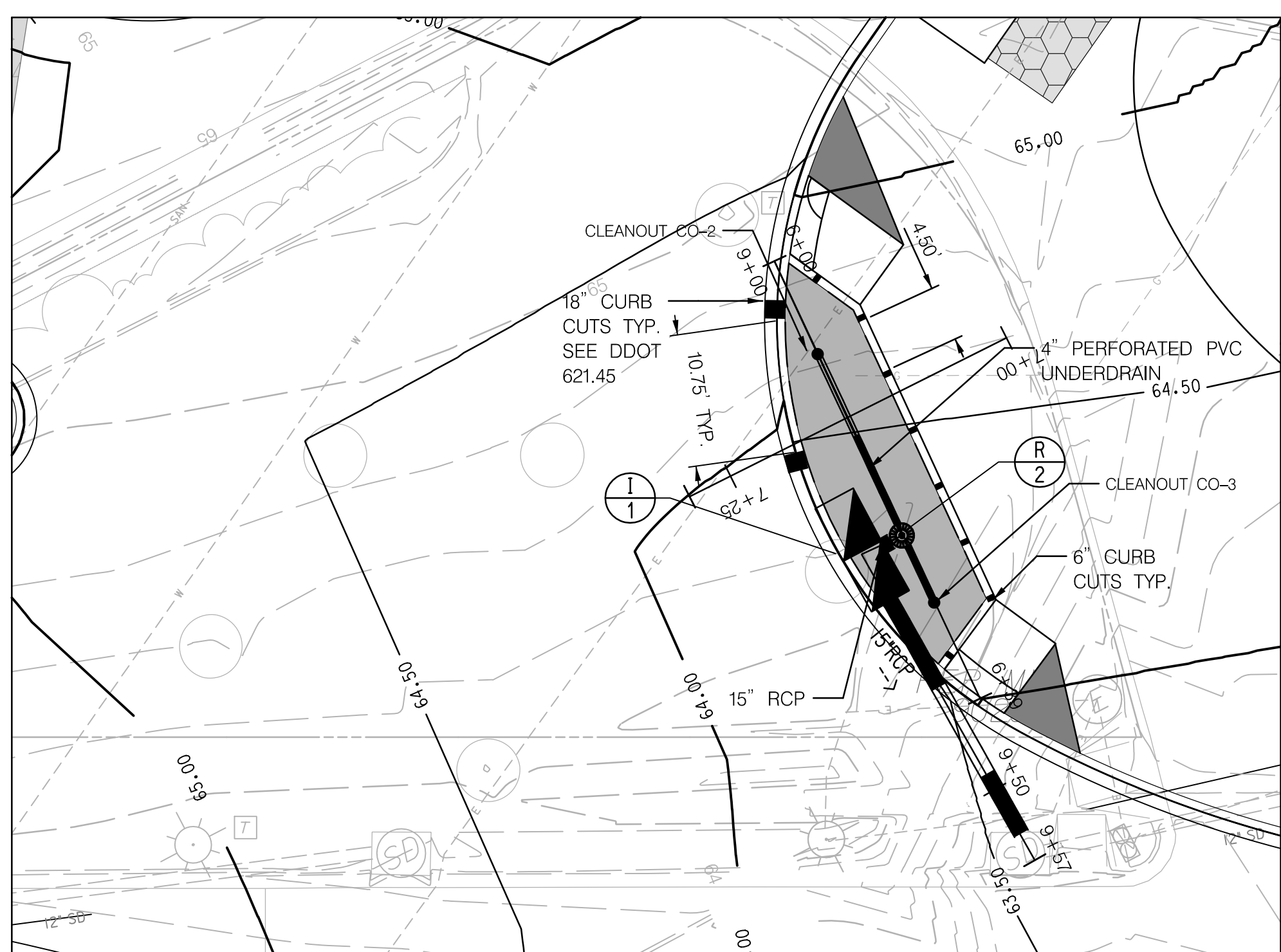
REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.	FAP NO. STP - 2018 (009)	122	167

LEGEND

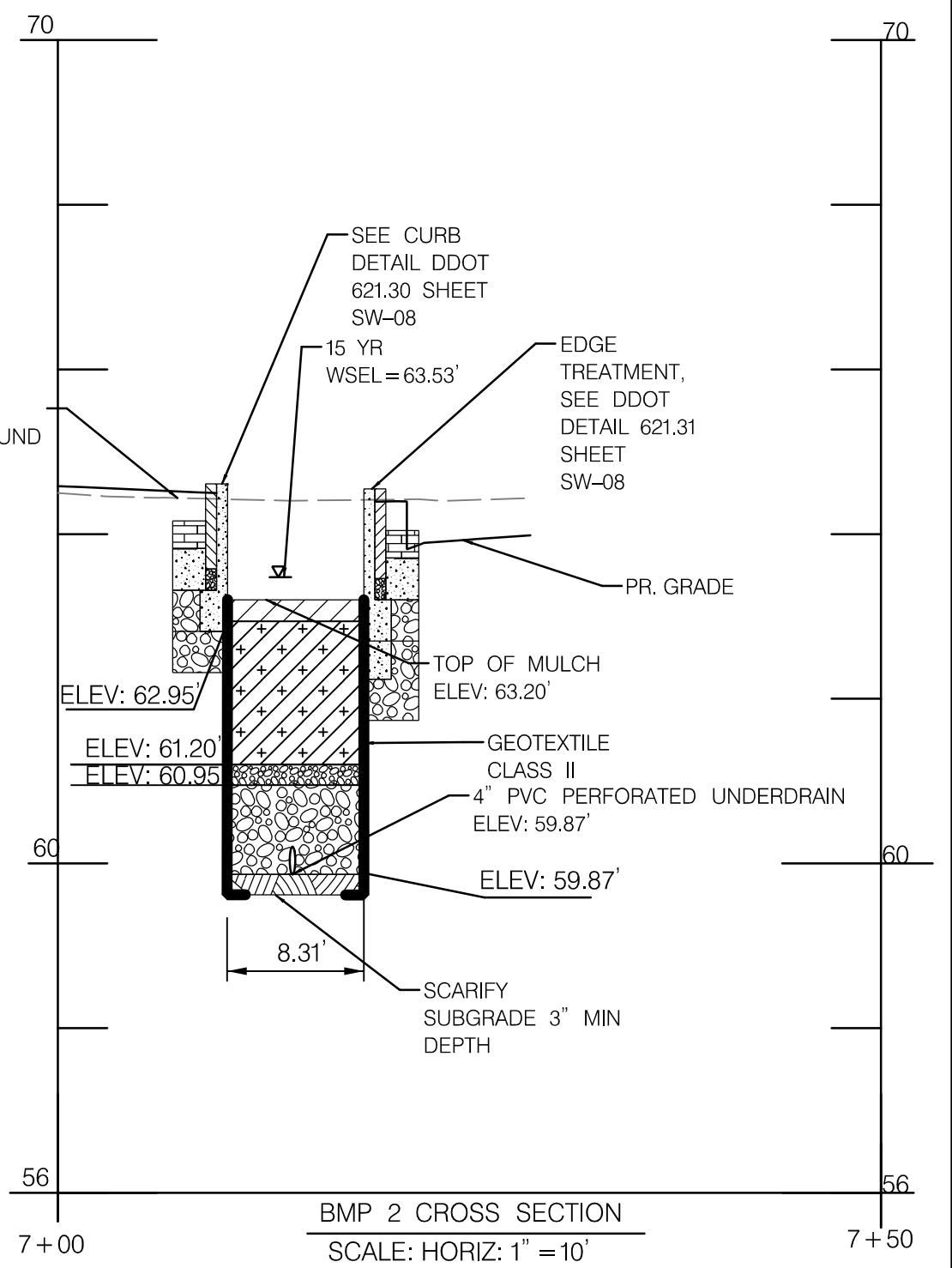
- MULCH DEPTH=3"
- BIORETENTION SOIL=1.75'
- SAND AND GRAVEL CHOKER LAYER DEPTH = 0.25'
- DOUBLE WASHED NO. 57 STONE=AS SHOWN
- UNCOMPACTED SUBGRADE DEPTH=3"
- PERMEABLE PAVEMENT



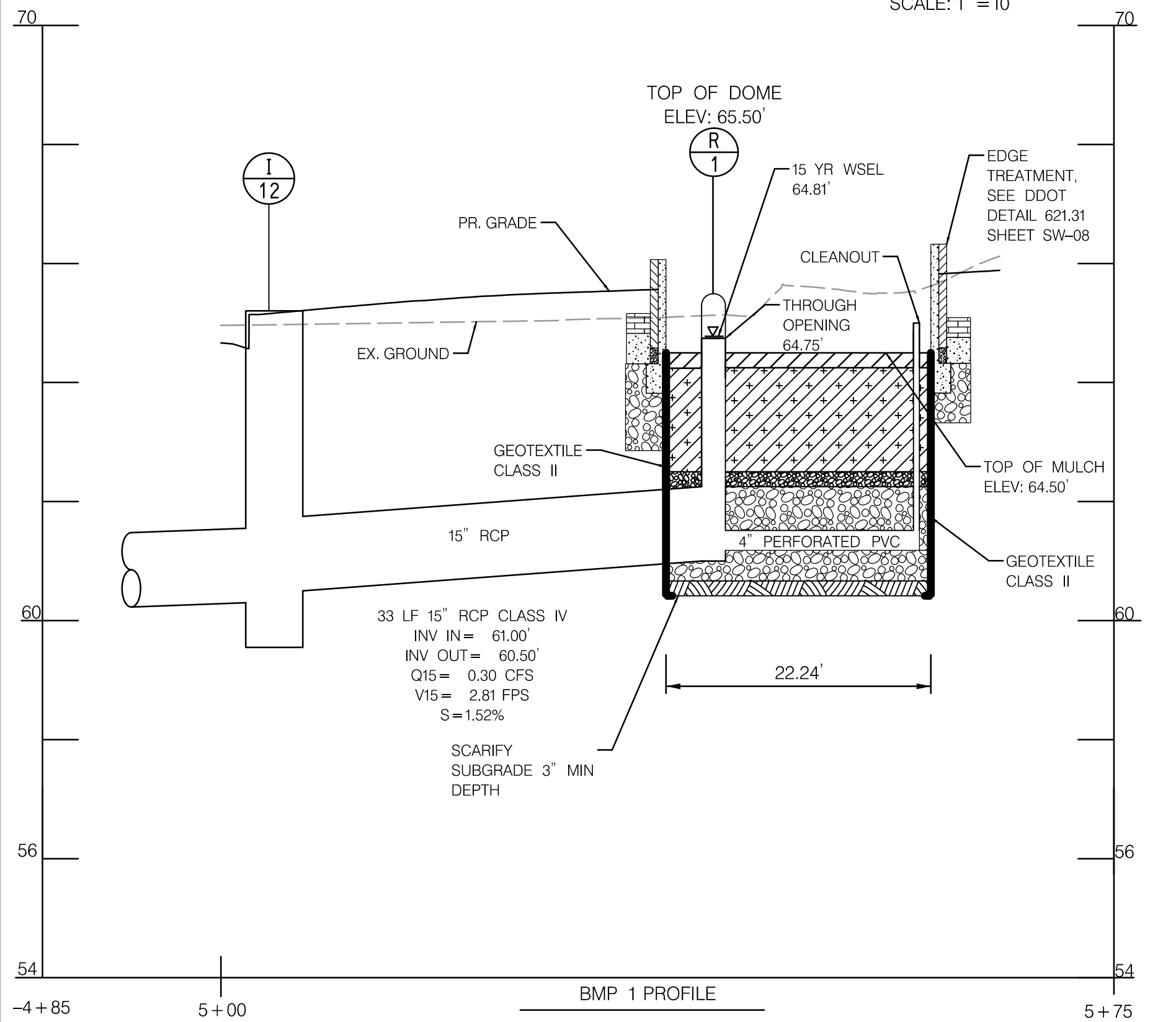
BMP-1 PLAN
SCALE: 1" = 10'



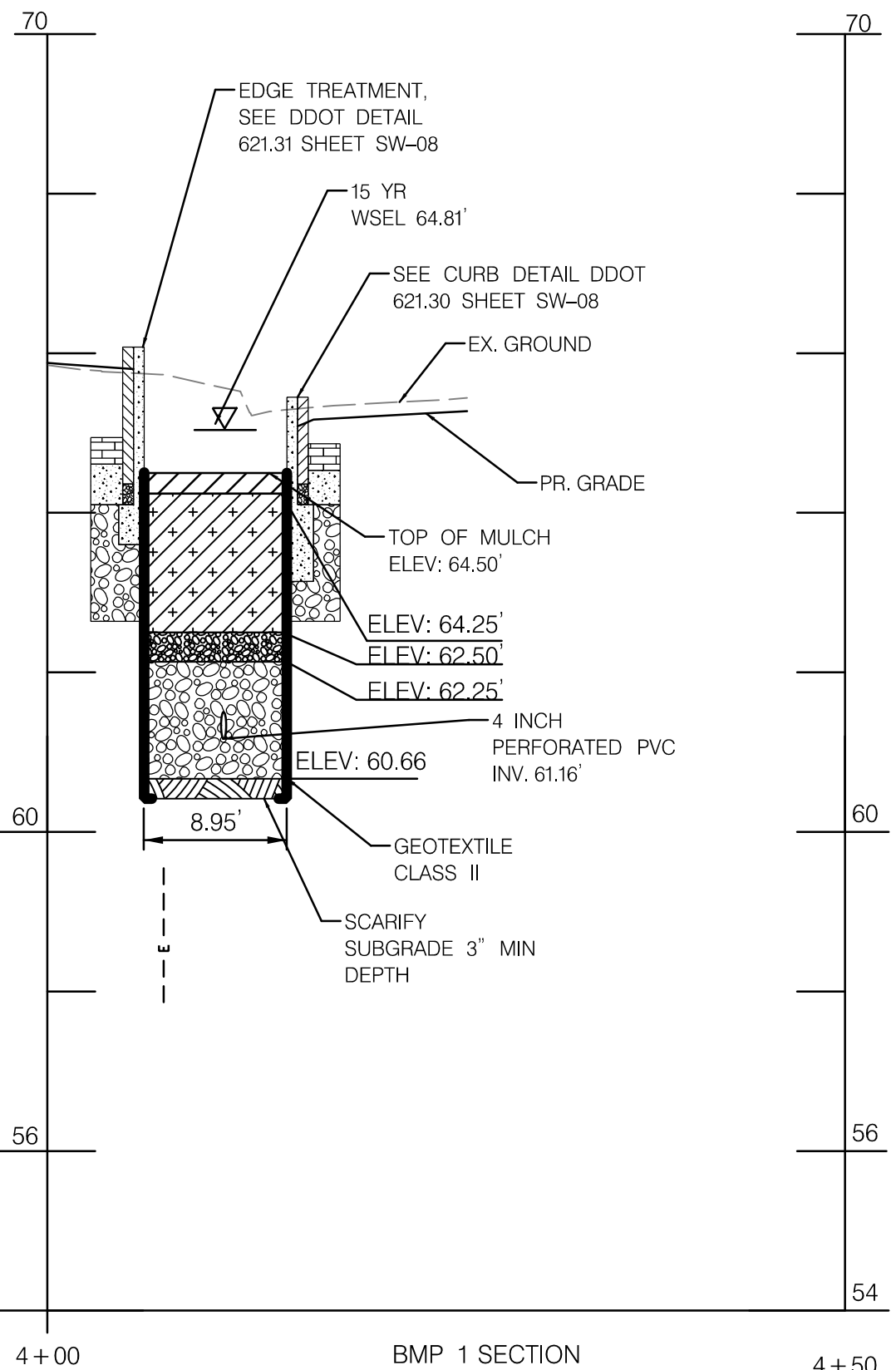
BMP-2 PLAN
SCALE: 1" = 10'



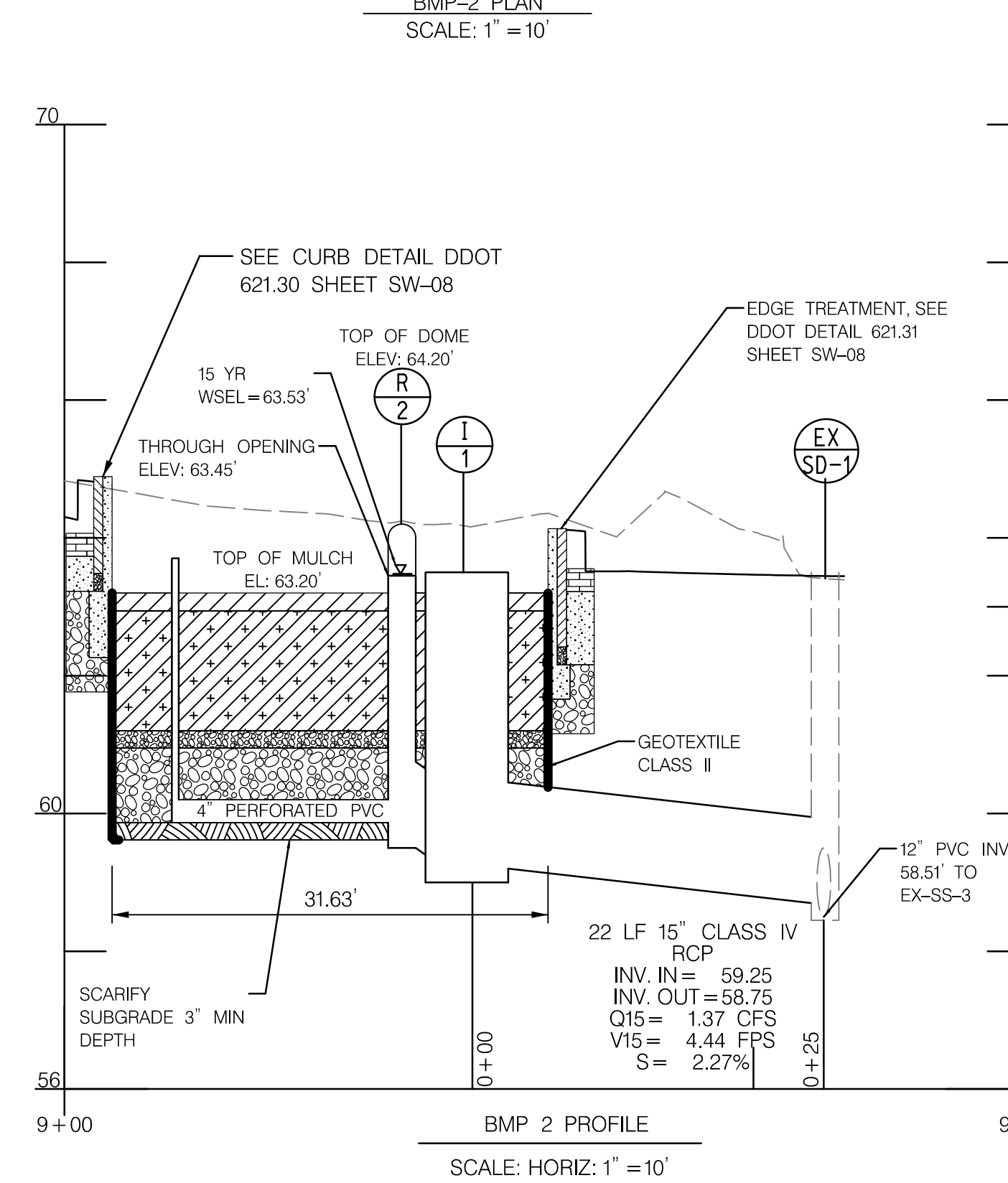
BMP 2 CROSS SECTION
SCALE: HORIZ: 1" = 10'
VERT: 1" = 2'



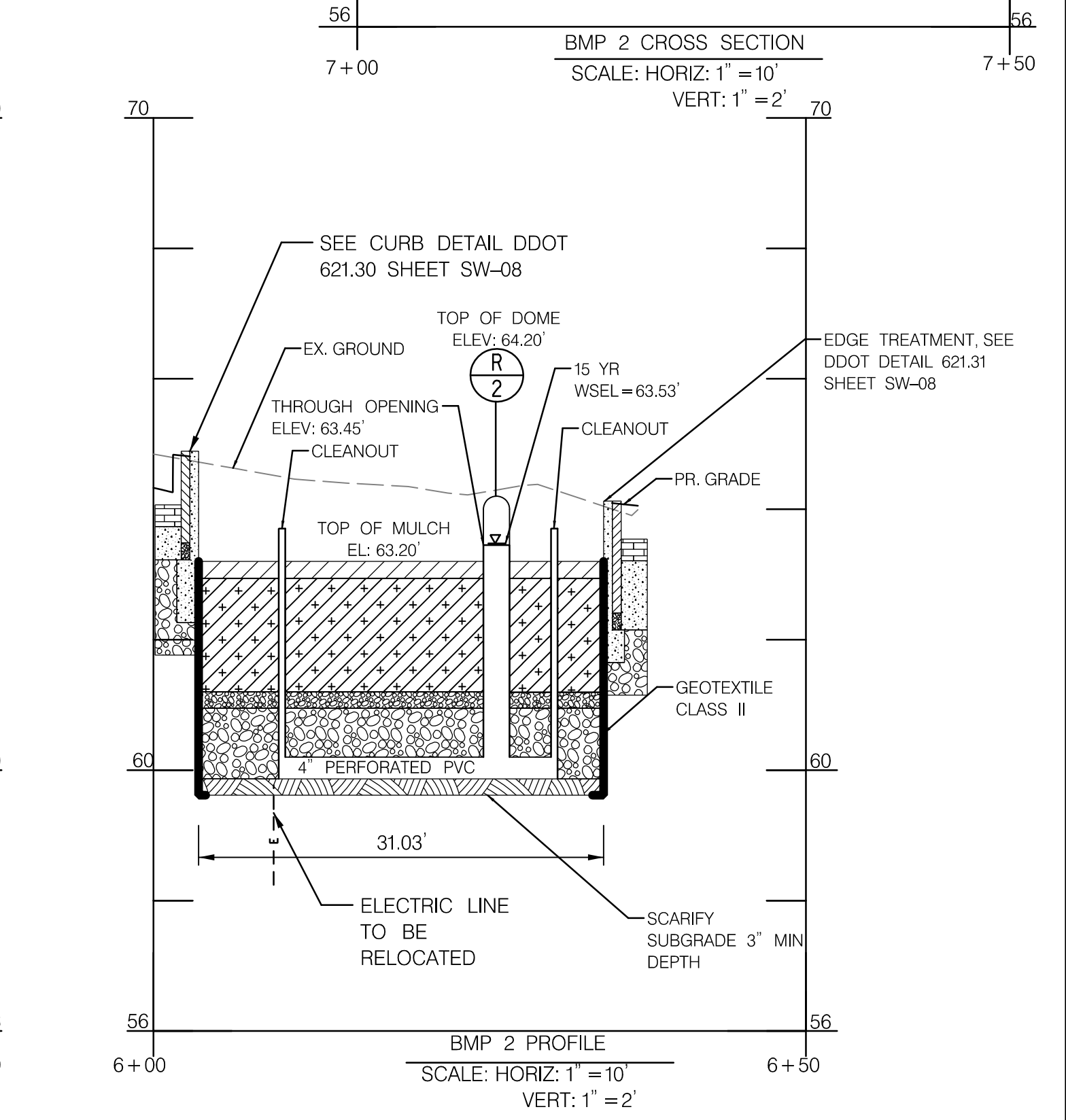
BMP 1 PROFILE
SCALE: HORIZ: 1" = 10'
VERT: 1" = 2'



BMP 1 SECTION
SCALE: HORIZ: 1" = 10'
VERT: 1" = 2'



BMP 2 PROFILE
SCALE: HORIZ: 1" = 10'
VERT: 1" = 2'



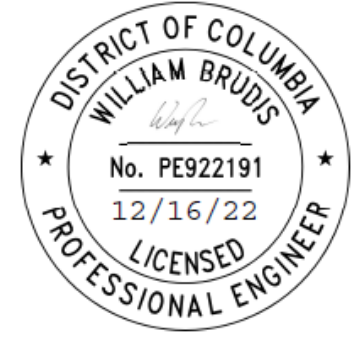
BMP 2 SECTION
SCALE: HORIZ: 1" = 10'
VERT: 1" = 2'

STRUCTURE SCHEDULE							
NO.	STATION	OFFSET	BASELINE	DEPTH	DDOT STANDARD TYPE	T.S.	REMARKS
R-1	202+28	71.9' RT	PENNSYLVANIA AVE SE	6.85'	24" PVC, DDOT DWG 621.50	64.75'	
R-2	202+28	71.9' RT	PENNSYLVANIA AVE SE	6.85'	24" PVC, DDOT DWG 621.50	63.95'	TO BE MAINTAINED BY DDOT

CLEANOUT SCHEDULE							
NO.	STATION	OFFSET	BASELINE	DEPTH	DDOT STANDARD TYPE	T.S.	REMARKS
CO-1	201+91	49' RT	PENNSYLVANIA AVE SE	4.0'	6" PVC	65.00	
CO-2	201+91	49' RT	PENNSYLVANIA AVE SE	4.0'	6" PVC	64.20	

PIPE SCHEDULE							
FROM	TO	SIZE	TYPE	LENGTH	INV.IN	INV.OUT	REMARKS
R-1	I-12	15"	RCP, CLASS IV	33'	61.00'	60.50'	
R-2	I-1	15"	RCP, CLASS IV	1'	59.50'	59.40'	

NOTE:
SOIL BORING ANALYSES INDICATED
WATER TABLE TO BE GREATER THAN
10' BELOW GROUND.



NO.	DESCRIPTION	NAME	DATE
REVISIONS			

DATED: DECEMBER, 2022 SCALE: 1" = 10" **SW-06**

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT DIVISION

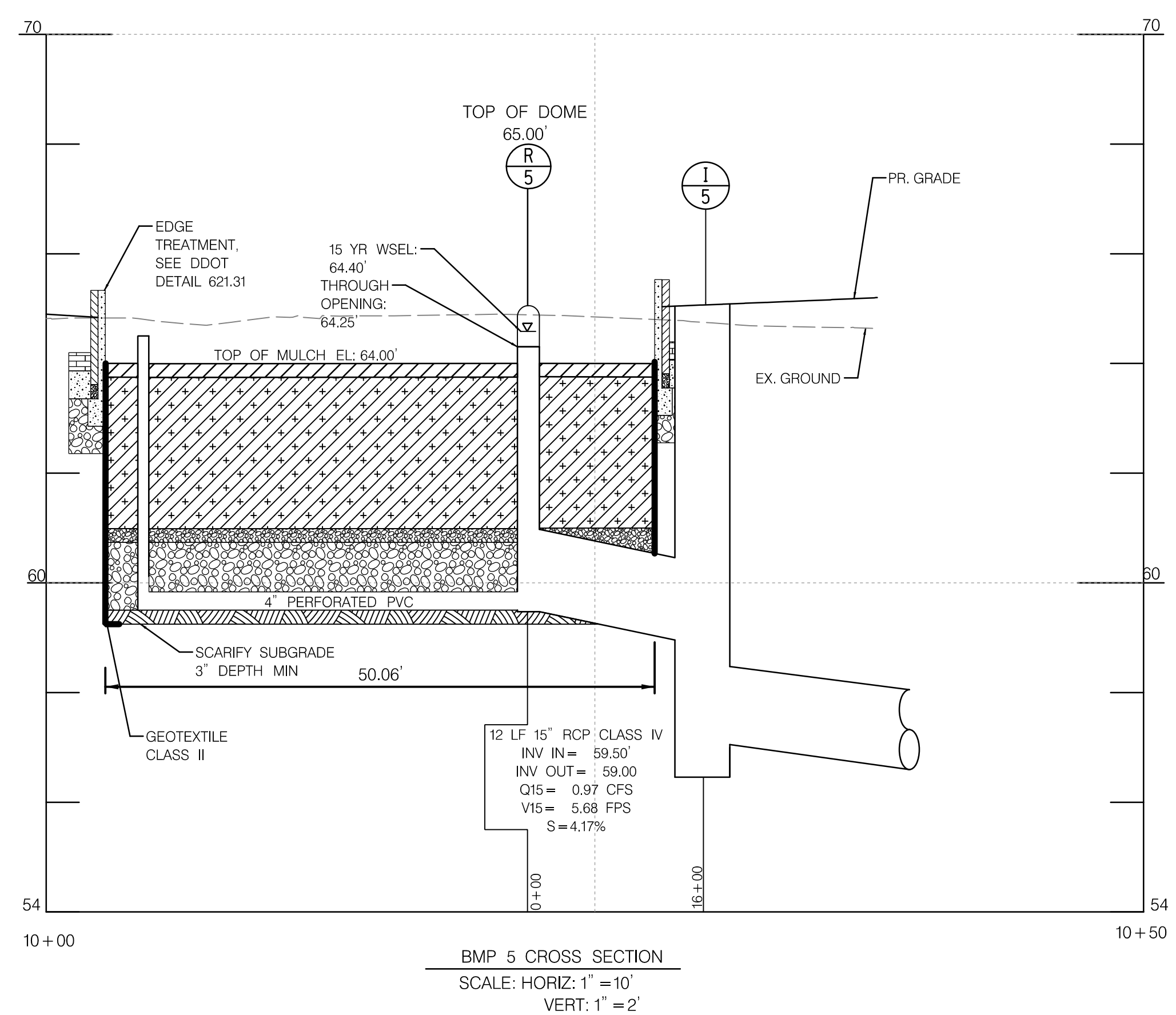
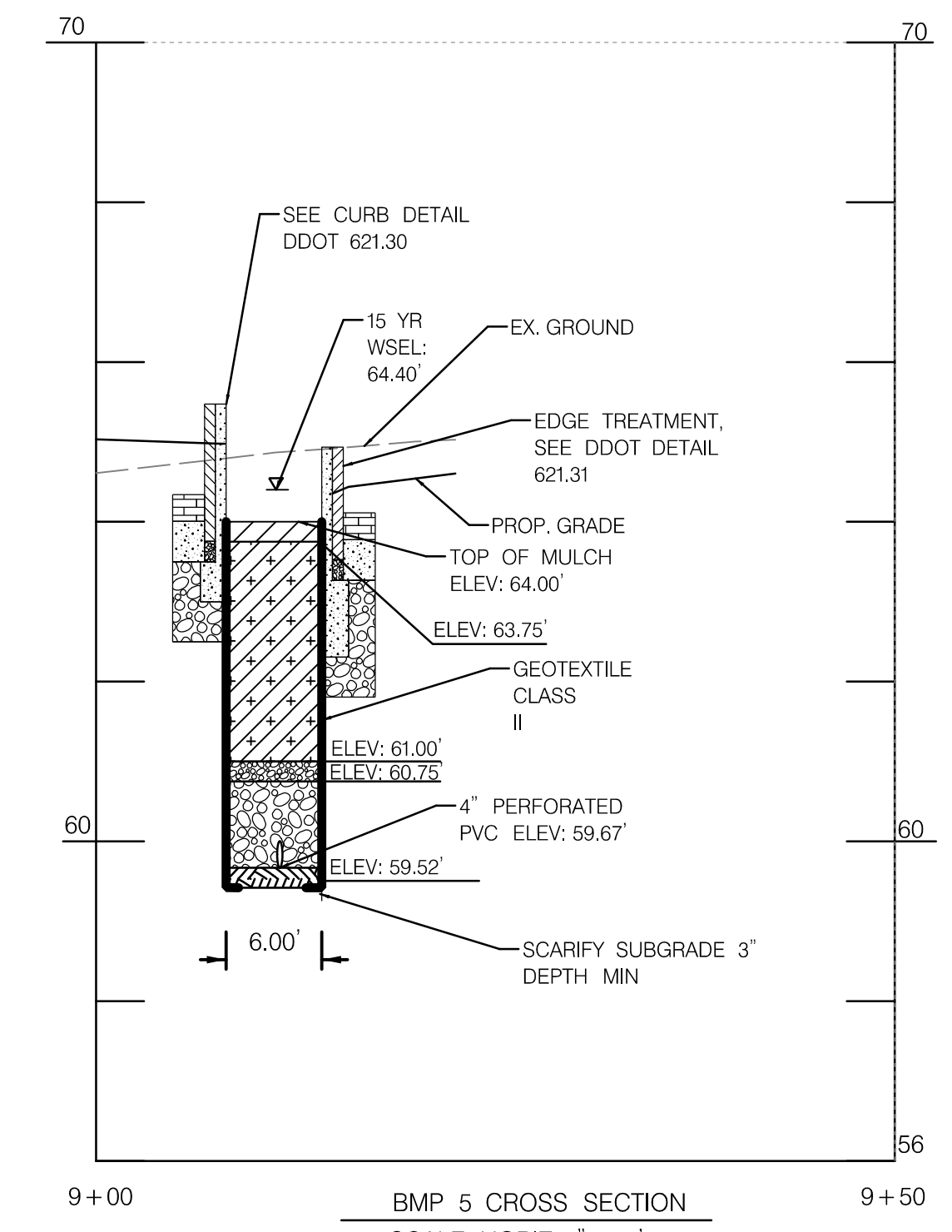
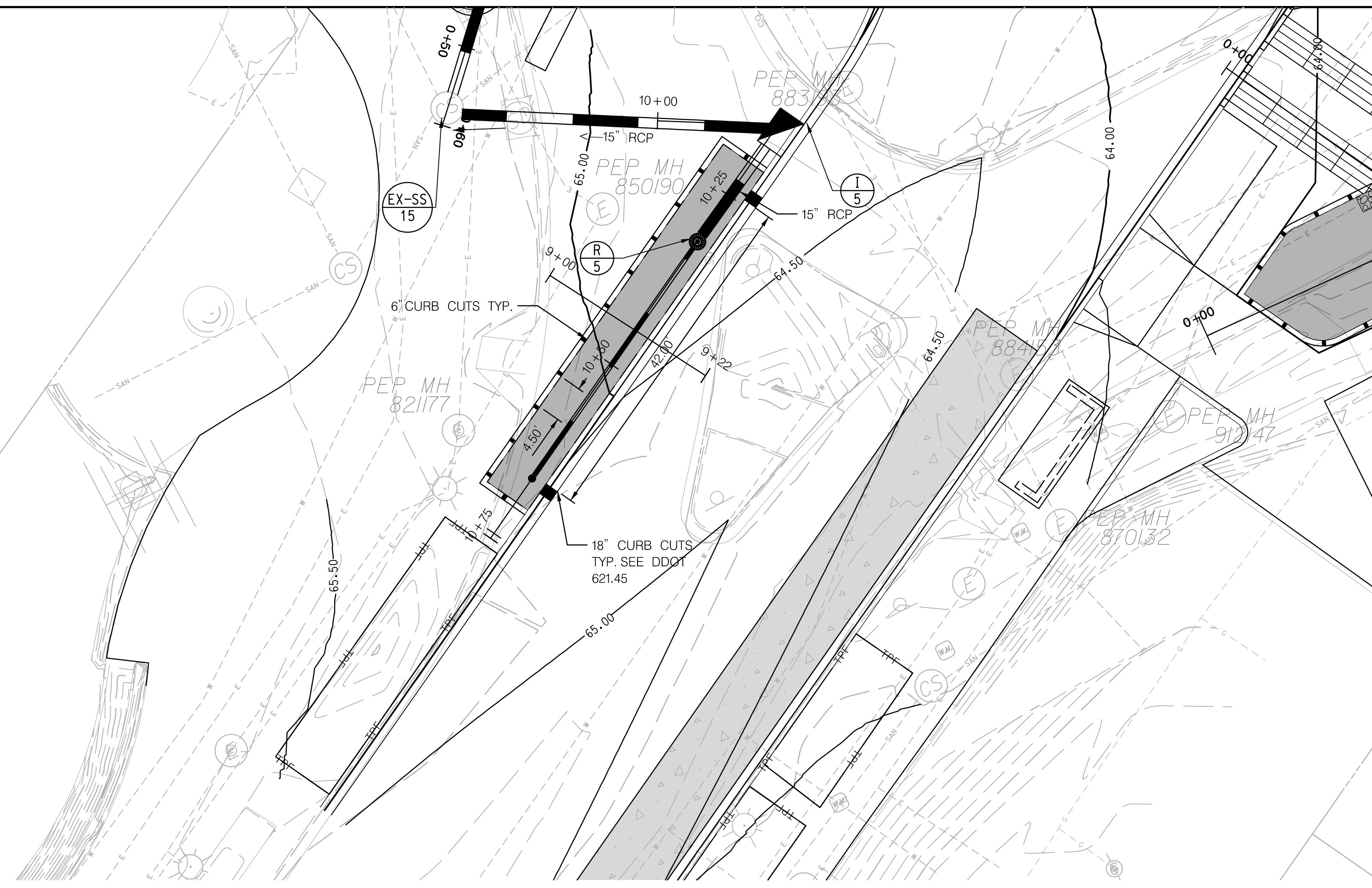
PENNSYLVANIA AND POTOMAC AVE SE
INTERSECTION IMPROVEMENT PROJECT

SWM PLAN BMP 1, BMP 2

PROJECT ENG. AP
DESIGNED BY MKW
CHECKED BY SA
DRAWN BY DMK
PROJECT MGR. RL
DIVISION CHIEF
DATE _____
FILE _____
SHEET 122 OF 167

P:\17-005 DDOT AE Schedule\AE Improvements\Drawings\CADD\Working\SW-0006_Perm Ave & Potomac Ave.dgn 2/17/2023

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.	FAP NO. STP - 2018 (009)	123	167



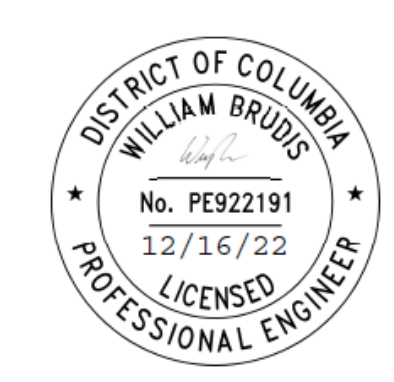
STRUCTURE SCHEDULE								
NO.	STATION	OFFSET	BASELINE	DEPTH	DDOT STANDARD TYPE	T.S.	REMARKS	MAINTENANCE SCHEDULE
R-1	202+28	71.9' RT	PENNSYLVANIA AVE SE	6.85'	24" PVC, DDOT DWG 621.50	65.00		TO BE MAINTAINED BY DDOT

CLEANOUT SCHEDULE							
NO.	STATION	OFFSET	BASELINE	DEPTH	DDOT STANDARD TYPE	T.S.	REMARKS
CO-1	201+91	49' RT	PENNSYLVANIA AVE SE	4.0'	6" PVC	64.5'	

PIPE SCHEDULE							
FROM	TO	SIZE	TYPE	LENGTH	INV. IN	INV. OUT	REMARKS
R-5	I-5	15"	RCP, CLASS IV	12'	59.50'	59.00'	

LEGEND

- MULCH DEPTH = 3"
- BIORETENTION SOIL = 2.75'
- SAND AND GRAVEL CHOKER LAYER DEPTH = 0.25'
- DOUBLE WASHED NO. 57 STONE = 1.23'
- UNCOMPACTED SUBGRADE DEPTH = 3"
- PERMEABLE PAVEMENT



DATED: DECEMBER, 2022 SCALE: 1" = 10' **SW-07**

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT DIVISION

PENNSYLVANIA AND POTOMAC AVE SE INTERSECTION IMPROVEMENT PROJECT

PROJECT ENG. _____ AP
DESIGNED BY _____ MKW
CHECKED BY _____ SA
DRAWN BY _____ DMK
PROJECT MGR. _____ RKL

SWM PLAN BMP 5

DIVISION CHIEF

DATE _____
FILE _____
SHEET 123 OF 167

NO.	DESCRIPTION	NAME	DATE
REVISIONS			

P:\17-005-DDOT AE Schedule\1_Pennsylvania Ave. Potomac Ave Improvements\CADD\Working\DWG-0007_Penn Ave & Potomac Ave.dgn 2/17/2023

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.	FAP NO. STP - 2018 (009)	124	167

DETAIL A - Concrete Flume with Wingwalls and Stone Splash Pad

SECTION A-A

NOTES:
 1. CURB OPENING DIMENSION SHOWN IS A MINIMUM. CURB CUT SHALL BE SIZED TO CONVEY 1/2" RAINFALL OFFLINE OR TO CONTROL SPREAD IN THE GUTTER PAN UNLESS PER DOT DESIGN AND ENGINEERING MANUAL.
 2. SEE SECTION A-4 ON DWG. NO. 621.42

CLASS 0 RIPRAP, RIVER ROCK, OR NO. 2 STONE, PER DESIGN

DISTRICT OF COLUMBIA
DEPARTMENT OF TRANSPORTATION
DWG. NO. 621.41

TRENCH DRAIN WITH METAL COVER DETAIL

PLAN VIEW

SECTION A-A

SECTION B-B

NOTES:
 1. CURB OPENING DIMENSION SHOWN IS A MINIMUM. CURB CUTS SHALL BE SIZED TO CONVEY 1/2" RAINFALL OFFLINE OR TO CONTROL SPREAD IN THE GUTTER PAN UNLESS PER DOT DESIGN AND ENGINEERING MANUAL.
 2. REFER TO DESIGN PLANS FOR SIZE AND TYPE OF GRATE.
 3. METAL TRENCH DRAIN COVER TO BE BOLTED DOWN (THEFT PROTECTED) BUT REMOVABLE.
 4. FOR DIMENSIONS AND SLOPES, SEE DESIGN PLANS.

DISTRICT OF COLUMBIA
DEPARTMENT OF TRANSPORTATION
DWG. NO. 621.42

BIORETENTION FACILITY STREET SIDE EDGE TREATMENT-2

GRANITE CURBS WITH L-WALL CRADLE

L-WALL AND STEP OUT ZONE

NOTES:
 1. AT CATCH BASINS AND OTHER STORM OR UTILITY STRUCTURES, PROVIDE REDUCED BASE DIMENSION TO CLEAR THE STRUCTURE.
 2. GUTTER MATERIAL TO MATCH PLANS (CONCRETE OR BRICK).
 3. PROVIDE NO. 51 STONE BENEATH GRANITE CURB.
 4. PROVIDE MIN 4" CONCRETE BETWEEN BOTTOM OF GUTTER AND WALL BASE REMOVE CONFLICTING PCC DRY MIX PRIOR TO CONSTRUCTING CONCRETE GUTTER.
 5. FINISH ALL EXPOSED CONCRETE SURFACES.
 6. STEP OUT ZONE INSTALLATION MAY BE STANDARD CONCRETE SIDEWALK, SOI, MULCH OR PAVEMENT BASED ON SURROUNDING CONDITIONS, AS SHOWN ON PLANS.
 7. REFER TO DESIGN AND ENGINEERING MANUAL SECTION "3314.5.6 SAFETY AND ACCESS" FOR PEDESTRIAN SAFETY DESIGN REQUIREMENTS.
 8. EXPANSION JOINTS SHALL BE PLACED AT MAXIMUM 30 FOOT INTERVAL. CONTRACTION JOINTS SHALL BE FORMED OR SAVED AT 30 FOOT MAXIMUM INTERVAL BETWEEN EXPANSION JOINTS, WHERE ADJACENT TO CURB, SIDEWALK OR CONCRETE PAVEMENT, JOINTS SHALL LINE UP.

DISTRICT OF COLUMBIA
DEPARTMENT OF TRANSPORTATION
DWG. NO. 621.31

CURB CUT METAL TRENCH DRAIN COVER-2

FRAME DETAIL

GRATE ATTACHMENT DETAIL

CONSTRUCTION NOTES:
 1. CAST IRON, NATURAL FINISH.
 2. NO OPENING GREATER THAN 3/4".
 3. PROTECT TRENCHED WELLS IN FRAME FROM ELOGGING DURING FRAME INSTALLATION.
 4. GRATE TO BE RATED FOR #100 LOADING WITH A MINIMUM SQUARE HOLE TO THE CENTER OF FRAME. TRENCHED SOLE AND US PER ASTM F2000. GRATES OR RINGS GREATER THAN 18" SHALL HAVE A COEFFICIENT OF FRICTION OF 0.40.
 5. RAVY GRATE AS SHOWN OR APPROVED ADA COMPLIANT EQUIVALENT.

DISTRICT OF COLUMBIA
DEPARTMENT OF TRANSPORTATION
DWG. NO. 621.44

BIORETENTION FACILITY SIDEWALK SIDE EDGE TREATMENT

L-WALL (FLUSH)

NOTES:
 1. WHEN FLUSH WALLS ARE SELECTED, TYPICALLY IN HIGH-VOLUME PEDESTRIAN AREAS, PROVIDE RAILING OR FENCE PER PLAN.
 2. WHEN WALLS WITH REVEALS ARE USED, TYPICALLY IN LOW-VOLUME PEDESTRIAN AREAS, PROVIDE BREAKS IN REVEAL AS SHOWN ON PLANS TO ALLOW FOR SIDEWALK RUNOFF INTO STORMWATER MANAGEMENT FACILITY.
 3. CONCRETE SHALL BE CLASS 0 FINISH ALL EXPOSED CONCRETE SURFACES.
 4. BASE MAY BE REDUCED TO 10" HIGH IN CONCRETE IS USED IN THE MATCHED AREA.
 5. REFER TO DESIGN AND ENGINEERING MANUAL SECTION "3314.5.6 SAFETY AND ACCESS" FOR PEDESTRIAN SAFETY DESIGN REQUIREMENTS.
 6. EXPANSION JOINTS SHALL BE PLACED AT MAXIMUM 30 FOOT INTERVAL. CONTRACTION JOINTS SHALL BE FORMED OR SAVED AT 30 FOOT MAXIMUM INTERVAL BETWEEN EXPANSION JOINTS, WHERE ADJACENT TO CURB, SIDEWALK OR CONCRETE PAVEMENT, JOINTS SHALL LINE UP.

DISTRICT OF COLUMBIA
DEPARTMENT OF TRANSPORTATION
DWG. NO. 621.32

OVERFLOW RISER WITH BEEHIVE GRATE

ELEVATION

CAST IRON BEEHIVE GRATE DETAIL

NOTES:
 1. MINIMUM OPENING SIZE IN GRATE SHALL BE 1/4" MIN.
 2. SIZE OF GRATE SHALL MATCH SIZE OF THE RISER, PER PLANS, SHALL FIT SNUG AND WATER TIGHT, AND SHALL BE REMOVABLE FOR MAINTENANCE PURPOSES.
 3. ALTERNATE MATERIAL TO CAST IRON SHALL BE ALLOWED AS APPROVED BY DOT SPMA.

DISTRICT OF COLUMBIA
DEPARTMENT OF TRANSPORTATION
DWG. NO. 621.50

STANDARD CATCH BASIN

PLAN

SECTION A - A

NOTES:
 1. ALL CONCRETE TO BE CLASS 4000, AIR ENTRAINED, TYPE II CEMENT.
 2. REINFORCING SHALL BE CENTERED IN WALLS AND BASE AND SHALL CONFORM TO ASTM A615 GRADE 60.

DISTRICT OF COLUMBIA
DEPARTMENT OF TRANSPORTATION
DWG. NO. 621.01

BIORETENTION FACILITY STREET SIDE EDGE TREATMENT-1

CURB WITH SLOPE

THICKENED CONCRETE CURB AND GUTTER

NOTES:
 1. CONCRETE SHALL BE CLASS 0 FINISH ALL EXPOSED CONCRETE SURFACES.
 2. CURB TYPE AND MATERIAL TO MATCH PLANS.
 3. SLOPE OF GUTTER AND CURB REVEAL TO MATCH STANDARD CURB AND GUTTER, PER DWG. 621.42.
 4. REFER TO DESIGN AND ENGINEERING MANUAL SECTION "3314.5.6 SAFETY AND ACCESS" FOR PEDESTRIAN SAFETY DESIGN REQUIREMENTS.
 5. 0" TO 28" STEP OUT ZONE, PER PLAN.
 6. EXPANSION AND CONTRACTION JOINTS SHALL BE PLACED IN ACCORDANCE WITH STANDARD DOT CONCRETE CURB REQUIREMENTS.

DISTRICT OF COLUMBIA
DEPARTMENT OF TRANSPORTATION
DWG. NO. 621.30

METAL PLATE OVER CURB CUT

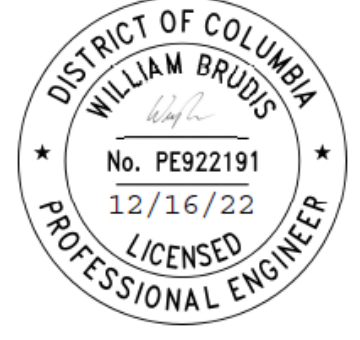
PLAN VIEW

SECTION A-A

SECTION B-B

NOTES:
 1. PLATE OVER CURB CUT MAY BE OMITTED WITH DOT APPROVAL.
 2. HEADED CONCRETE ANCHORS SHALL MEET THE REQUIREMENTS OF ASTM A496.
 3. HSS 6 x 2 CHANNEL SHALL MEET THE REQUIREMENTS OF ASTM A500 GRADE B.
 4. END PLATES SHALL MEET THE REQUIREMENTS OF ASTM A36.
 5. ENTIRE ASSEMBLY SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM A496.
 6. DESIGN VERTICAL WHEEL LOAD IS 8.5 KIPS @ 2 OF TANDEN AXLE WEIGHT SPECIFIED IN FHWA-HSP-06-105.
 7. SINGLE BEVEL GROOVE WELD.
 8. ALTERNATE MATERIAL FOR ASSEMBLY (E.G. CAST IRON, GRAY IRON) MAY BE USED PER DESIGN PLANS.

DISTRICT OF COLUMBIA
DEPARTMENT OF TRANSPORTATION
DWG. NO. 621.45



DATED: DECEMBER, 2022	SCALE: NOT TO SCALE	SW-08
D.C. DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT DIVISION		
PROJECT ENG. <u>AP</u> DESIGNED BY <u>DMK</u> CHECKED BY <u>AP</u> DRAWN BY <u>DMK</u> PROJECT MGR. <u>RKL</u>		
DIVISION CHIEF		
STORMWATER MANAGEMENT DETAILS		
DATE	NAME	DATE
FILE		
SHEET 124 OF 167		

NO.	DESCRIPTION	NAME	DATE
REVISIONS			



P:\17-005 DDOT AE Schedule\1. Pennsylvania Ave. Improvements\Drawings\CADD\Working\DWG-001_Penn Ave & Potomac Ave.dwg 5/21/2022 11:02:24 PM

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.	FAP NO. STP - 2018 (009)	125	167

SIDEWALK SECTION

MAX. 5% LONGITUDINAL SLOPE
MAX. 2% CROSS SLOPE
4" SEE NOTE 5
5" TYP.

*STEEPER SLOPE ALLOWED IF APPROVED BY DDOT IPMA.

LEGEND:

- ① PERVIOUS PORTLAND CEMENT CONCRETE
- ② BASE COURSE, AASHTO #57 OR APPROVED EQUIVALENT
- ③ UNCOMPACTED SUBGRADE FOR AREAS DESIGNED AS INFILTRATION PRACTICES. FOR OTHER AREAS, COMPACT AS SPECIFIED IN SPECIFICATION CITED IN NOTE 2. FOR SOFT SOILS, INSTALL GEGRID PER GEOTECHNICAL ENGINEER RECOMMENDATIONS.

NOTES:

- DETAIL TO BE USED ONLY WHEN APPROVED BY DDOT IPMA AND SHALL MEET CURRENT APPROVED DDOT SPECIFICATION FOR "PERVIOUS PORTLAND CEMENT CONCRETE PAVEMENT".
- AGGREGATE LAYERS SHALL MEET CURRENT APPROVED DDOT SPECIFICATION FOR "AGGREGATES FOR PERMEABLE PAVEMENT AND BIORETENTION".
- WHERE INSTALLED SOILS ARE NOT CONDUCTIVE TO INFILTRATION OF 1.2" RETENTION VOLUME WITHIN 12 HOURS, UNDERDRAIN SHOULD BE CONSIDERED THROUGH COORDINATION WITH DDOT IPMA.
- WATERPROOF MEMBRANCE TO BE USED TO PROMOTE WATER RE-USE, PROTECT HEAVY BUILDING FOUNDATIONS AND AVOID INFILTRATION AROUND UTILITIES, SEE DESIGN PLANS.
- AGGREGATE DEPTH MAY BE GREATER THAN MINIMUM, AS SHOWN IN DESIGN PLANS TO ACHIEVE ADDITIONAL STORMWATER STORAGE.
- BOTTOM OF PERMEABLE PAVEMENT STRUCTURE SHALL BE AT LEAST 2" ABOVE THE SEASONAL HIGH WATER TABLE OR BEDROCK, AS DETERMINED BY GEOTECHNICAL INVESTIGATION.
- TOP OF PAVEMENT SHOULD BE DESIGNED TO ACHIEVE 1% MINIMUM SLOPE IN ANY DIRECTION.
- FOR SIDEWALK JOINT LAYOUT, REFER TO DDOT DWG. NO. 608.01. FOR TRAIL JOINT LAYOUT, REFER TO DDOT DWG. NO. 501.01.

RECOMMENDED:	<i>Ravindra D. Goyal</i> DEPUTY CHIEF ENGINEER
DATE:	
APPR:	
REVISED:	
ISSUED:	
REFERENCE:	CHIEF TRANSPORTATION ENGINEER

DISTRICT OF COLUMBIA
DEPARTMENT OF TRANSPORTATION

PERVIOUS CONCRETE SIDEWALK

DWG. NO. 621.02

BIORETENTION PLANTER ADJACENT TO ROADWAY-2 (WITH STEP OUT ZONE)

PLAN VIEW

SECTION A-A

LEGEND:

- ① BIORETENTION SOIL
- ② CHOKER LAYER, SAND & GRAVEL
- ③ AASHTO #57 STONE, DOUBLE WASHED
- ④ INFILTRATION SUMP, AASHTO #57 STONE, DOUBLE WASHED
- ⑤ GEOTEXTILE, CLASS 2
- ⑥ MULCH, PER PLANTING PLANS
- ⑦ WATERPROOF MEMBRANE

NOTES:

- BIORETENTION MATERIALS AND CONSTRUCTION SHALL MEET CURRENT APPROVED DDOT SPECIFICATION FOR "BIORETENTION, PLANTING, AND STRUCTURAL SOILS".
- SCARIFY SUBGRADE 3" MIN. BEFORE INSTALLATION.
- STEP OUT ZONE REQUIRED WHEN PARALLEL PARKING IS PROVIDED, INSTALLATION MAY BE STANDARD CONCRETE SIDEWALK, SOD, MULCH OR PAVEMENT BASED ON SURROUNDING CONDITIONS.
- FOR EDGE TREATMENT OPTIONS, SEE DWG. NOS. 621.30 TO 621.32.
- TREES AND PLANTINGS SHALL BE INSTALLED IN ACCORDANCE WITH DESIGN PLANS.
- BOTTOM OF BIORETENTION SHALL BE AT LEAST 2" ABOVE THE SEASONAL HIGH WATER TABLE AND BEDROCK AS DETERMINED BY GEOTECHNICAL INVESTIGATION.
- DEPTH OF INFILTRATION SUMP AS SHOWN ON DESIGN PLANS SHOULD BE SIZED TO ADDRESS STORMWATER MANAGEMENT REQUIREMENTS.
- OUTLET REQUIRED AS SPECIFIED BY PLANS.

RECOMMENDED:	<i>Ravindra D. Goyal</i> DEPUTY CHIEF ENGINEER
DATE:	
APPR:	
REVISED:	
ISSUED:	
REFERENCE:	CHIEF TRANSPORTATION ENGINEER

DISTRICT OF COLUMBIA
DEPARTMENT OF TRANSPORTATION

BIORETENTION PLANTER ADJACENT TO ROADWAY-2 (WITH STEP OUT ZONE)

DWG. NO. 621.23

BIORETENTION PLANTER ADJACENT TO ROADWAY-1 (NO STEP OUT ZONE)

PLAN VIEW

SECTION A-A

LEGEND:

- ① BIORETENTION SOIL
- ② CHOKER LAYER, SAND & GRAVEL
- ③ AASHTO #57 STONE, DOUBLE WASHED
- ④ INFILTRATION SUMP, AASHTO #57 STONE, DOUBLE WASHED
- ⑤ GEOTEXTILE, CLASS 2
- ⑥ MULCH, PER PLANTING PLANS
- ⑦ WATERPROOF MEMBRANE

NOTES:

- BIORETENTION MATERIALS AND CONSTRUCTION SHALL MEET CURRENT APPROVED DDOT SPECIFICATION FOR "BIORETENTION, PLANTING, AND STRUCTURAL SOILS".
- SCARIFY SUBGRADE 3" MIN. BEFORE INSTALLATION.
- FOR EDGE TREATMENT OPTIONS, SEE DWG. NOS. 621.30 TO 621.32.
- TREES AND PLANTINGS SHALL BE INSTALLED IN ACCORDANCE WITH DESIGN PLANS.
- BOTTOM OF BIORETENTION SHALL BE AT LEAST 2" ABOVE THE SEASONAL HIGH WATER TABLE AND BEDROCK AS DETERMINED BY GEOTECHNICAL INVESTIGATION.
- DEPTH OF INFILTRATION SUMP AS SHOWN ON DESIGN PLANS SHOULD BE SIZED TO ADDRESS STORMWATER MANAGEMENT REQUIREMENTS.
- OUTLET REQUIRED AS SPECIFIED BY PLANS.

RECOMMENDED:	<i>Ravindra D. Goyal</i> DEPUTY CHIEF ENGINEER
DATE:	
APPR:	
REVISED:	
ISSUED:	
REFERENCE:	CHIEF TRANSPORTATION ENGINEER

DISTRICT OF COLUMBIA
DEPARTMENT OF TRANSPORTATION

BIORETENTION PLANTER ADJACENT TO ROADWAY-1 (NO STEP OUT ZONE)

DWG. NO. 621.22

STORMWATER FACILITY UNDERDRAIN PIPE RISERS

OBSERVATION WELL IN BIORETENTION

OBSERVATION WELL IN PERMEABLE PAVEMENT

CLEANOUT / OBSERVATION WELL IN PERMEABLE PAVEMENT (SEE NOTE 6)

LEGEND:

- ① PERFORATED PVC PIPE SEE NOTE 1
- ② PIPE SEAL GASKET (TYP.)
- ③ LOCKABLE CAP SEE NOTE 3
- ④ PERFORATED UNDERDRAIN (0.5% MIN. SLOPE IF ABOVE FROST LINE)

NOTES:

- PROVIDE A TUBE MADE OF NON-CORROSIVE MATERIAL, SCHEDULE 40 PVC OR EQUAL, AT LEAST 3 FEET LONG WITH AN INSIDE DIAMETER OF 4 TO 6 INCHES. PERFORATED PIPE IS REQUIRED FOR ALL OBSERVATION WELLS, OR CLEANOUTS USED AS OBSERVATION WELLS.
- FACTORY ATTACHED BRASS OR HIGH IMPACT PLASTIC HEAD WITH RIBS TO PREVENT ROTATION WHEN REMOVING LOCKABLE CAP.
- LOCKABLE CAP SHALL BE BRASS AND RATED FOR MS-20 LOADING IN VEHICULAR AREAS, MOUNTED FLUSH TO GRADE. LOCKABLE CAP MAY BE HIGH IMPACT PLASTIC THAT IS UV STABLE IN NON-VEHICULAR LOADING AREA, AT LEAST 6 INCHES ABOVE GRADE.
- IN FACILITIES SUBJECT TO VEHICULAR TRAFFIC, CONCRETE APRONS AROUND CLEANOUTS ARE AN OPTION, AS SHOWN IN DESIGN PLANS.
- CAP ON RISERS IN BIORETENTION FACILITY SHALL BE PVC SCREW IN PLUG.
- FOR CLEANOUT IN BIORETENTION (NOT SHOWN), USE SIMILAR DETAIL, BUT USE PVC SCREW CAP SET 6" ABOVE FINISHED GRADE.

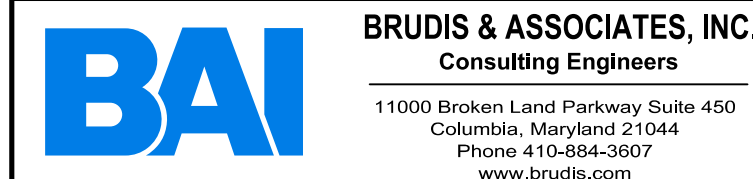
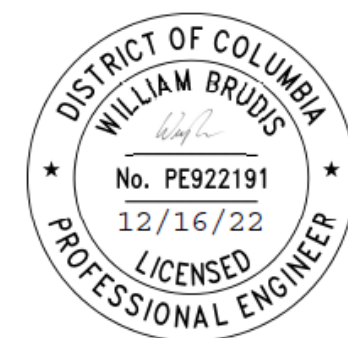
RECOMMENDED:	<i>Ravindra D. Goyal</i> DEPUTY CHIEF ENGINEER
DATE:	
APPR:	
REVISED:	
ISSUED:	
REFERENCE:	CHIEF TRANSPORTATION ENGINEER

DISTRICT OF COLUMBIA
DEPARTMENT OF TRANSPORTATION

STORMWATER FACILITY UNDERDRAIN PIPE RISERS

DWG. NO. 621.51

DATED: DECEMBER, 2022	SCALE: NOT TO SCALE	SW-09
D.C. DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT DIVISION		
PENNSYLVANIA AND POTOMAC AVE SE INTERSECTION IMPROVEMENT PROJECT		
DIVISION CHIEF		
DATE:	FILE:	SHEET 125 OF 167



NO.	DESCRIPTION	NAME	DATE

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BIORETENTION MAINTENANCE SCHEDULE

Frequency	Maintenance Tasks
Upon establishment	<ul style="list-style-type: none"> For the first 6 months following construction, the practice and CDA should be inspected at least twice after storm events that exceed 0.5 inch of rainfall. Conduct any needed repairs or stabilization. Inspectors should look for bare or eroding areas in the CDA or around the bioretention area and make sure they are immediately stabilized with grass cover. One-time, spot fertilization may be needed for initial plantings. Watering is needed once a week during the first 2 months, and then as needed during first growing season (April through October), depending on rainfall. Remove and replace dead plants. Up to 10% of the plant stock may die off in the first year, so construction contracts should include a care and replacement warranty to ensure that vegetation is properly established and survives during the first growing season following construction.
At least 4 times per year	<ul style="list-style-type: none"> Mow grass filter strips and bioretention with turf cover Check curb cuts and inlets for accumulated grit, leaves, and debris that may block inflow
Twice during growing season	<ul style="list-style-type: none"> Spot weed, remove trash, and rake the mulch
Annually	<ul style="list-style-type: none"> Conduct a maintenance inspection Supplement mulch in devoid areas to maintain a 3-inch layer Prune trees and shrubs Remove sediment in pretreatment cells and inflow points
Once every 2-3 years	<ul style="list-style-type: none"> Remove sediment in pretreatment cells and inflow points Remove and replace the mulch layer
As needed	<ul style="list-style-type: none"> Add reinforcement planting to maintain desired vegetation density Remove invasive plants using recommended control methods Remove any dead or diseased plants Stabilize the CDA to prevent erosion

Standing water is the most common problem outside of routine maintenance. If water remains on the surface for more than 72 hours after a storm, adjustments to the grading may be needed or underdrain repairs may be needed. The surface of the filter bed should also be checked for accumulated sediment or a fine crust that builds up after the first several storm events. There are several methods that can be used to rehabilitate the filter. These are listed below, starting with the simplest approach and ranging to more involved procedures (i.e., if the simpler actions do not solve the problem):

- Open the underdrain observation well or cleanout and pour in water to verify that the underdrains are functioning and not clogged or otherwise in need of repair. The purpose of this check is to see if there is standing water all the way down through the soil. If there is standing water on top, but not in the underdrain, then there is a clogged soil layer. If the underdrain and stand pipe indicates standing water, then the underdrain must be clogged and will need to be cleaned out.
- Remove accumulated sediment and till 2 to 3 inches of sand into the upper 6 to 12 inches of soil.
- Install sand wicks from 3 inches below the surface to the underdrain layer. This reduces the average concentration of fines in the media bed and promotes quicker drawdown times. Sand wicks can be installed by excavating or auguring (i.e., using a tree auger or similar tool) down to the top of the underdrain layer to create vertical columns that are then filled with a clean open-graded coarse sand material (e.g., ASTM C-33, Standard Specification for Concrete Aggregates, concrete sand or similar approved sand mix for bioretention media). A sufficient number of wick drains of sufficient dimension should be installed to meet the design dewatering time for the facility.
- Remove and replace some or all of the filter media.

Maintenance Inspections. It is recommended that a qualified professional conduct a spring maintenance inspection and cleanup at each bioretention area. Maintenance inspections should include information about the inlets, the actual bioretention facility (sediment buildup, outlet conditions, etc.), and the state of vegetation (water stressed, dead, etc.) and are intended to highlight any issues that need or may need attention to maintain stormwater management functionality.

BIORETENTION MATERIALS SPECIFICATIONS

Table 3-18 Filter Media Grain Size Distribution

Sieve Type	Particle Size (mm)	Percent Passing (%)
	8.0	100
No. 5	4.0	92-100
No. 10	2.0	72-100
No. 18	1.0	43-95
No. 35	0.5	20-65
No. 60	0.25	11-37
No. 140	0.105	10-25
No. 270	0.053	10-20
	0.002	0-10

BIORETENTION MATERIALS SPECIFICATIONS

Table 3-19 Summary of Filter Media Criteria for Bioretention

Filter Media Criterion	Description	Standard(s)
General Composition	Filter media must have the proper proportions of sand, loam soil, and organic amendments to promote plant growth, drain at the proper rate, and filter pollutants.	80%-90% sand; 10%-20% soil fines; maximum of 10% clay; and 3%-5% organic content Must meet final filter media grain size distribution OR have a saturated hydraulic conductivity of 2-6 inches per hour
Sand	Medium to coarse aggregate	Based on final filter media grain size distribution
Loam Soil	Loamy sand, sandy loam, or loam	USDA Textural Triangle
Organic Amendments	Stable, well-composted, natural, carbon-containing organic materials such as leaf mulch, peat moss, humus, or yard waste.	Appendix K
P-Index or Phosphorus (P) Content	Filter media with high P levels will export P through the media and potentially to downstream conveyances or receiving waters.	P-Index of 10-30 or P content = 5-15 mg/kg (Mehlich I) or 18-40 mg/kg (Mehlich III)
Cation Exchange Capacity (CEC)	The CEC is determined by the amount of soil fines and organic matter. Higher CEC will promote pollutant removal.	CEC > 5 milliequivalents per 100 grams
pH	Soil pH influences nutrient availability and microbial populations.	Between 6.0 and 7.5
Soluble Salts	Filter media with high levels of soluble salts can injure or kill plants.	Less than 500 ppm or less than 0.5 mmhos/cm.

Table 3-21 Bioretention Material Specifications

Material	Specification	Notes
Filter Media	See Table 3-18 and Table 3-19	Minimum depth of 24 inches (18 inches for standard design). To account for settling/compaction, it is recommended that 110% of the plan volume be utilized.
Mulch Layer	Use aged, shredded hardwood bark mulch	Lay a 2- to 3-inch layer on the surface of the filter bed.
Alternative Surface Cover	Use river stone or pea gravel, coir and jute matting, or turf cover.	Lay a 2- to 3-inch layer of to suppress weed growth.
Top Soil for Turf Cover	Loamy sand or sandy loam texture, with less than 5% clay content, pH corrected to between 6 and 7, and an organic matter content of at least 2%.	3-inch tilled into surface layer.
Geotextile or Choking Layer	An appropriate geotextile fabric that complies with AASHTO M-288 Class 2 (latest edition available here: https://store.transportation.org/item/publicationdetail/3791) requirements and has a permeability of at least an order of magnitude (10 times) higher than the soil subgrade permeability must be used	Can use in place of the choking layer where the depth of the practice is limited. Geotextile fabric may be used on the sides of bioretention areas as well.
	Lay a 2- to 4-inch layer of choker stone (e.g., typically No.8 or No.89 washed gravel) over the underdrain stone.	
Underdrain Stone	1-inch diameter stone must be washed clean and free of fines (with no more than 2% passing the No. 200 sieve) (e.g., ASTM D448 No. 57 or smaller stone).	At least 2 inches above and below the underdrain.
Storage Layer (optional)	To increase storage for larger storm events, chambers, perforated pipe, stone, or other acceptable material can be incorporated below the filter media layer.	
Impermeable Liner (optional)	Where appropriate, use a PVC Geomembrane liner or equivalent material of an appropriate thickness.	
Underdrains, Cleanouts, and Observation Wells	Use 4- or 6-inch rigid schedule 40 PVC pipe, or equivalent corrugated HDPE for small bioretention BMPs, with three or four rows of 3/8-inch perforations at 6 inches on center. Multiple underdrains may be necessary for bioretention areas wider than 40 feet, and each underdrain is recommended to be located no more than 20 feet from the next pipe or the edge of the bioretention.	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 or to daylight in a stabilized conveyance. Install T's and Y's as needed, depending on the underdrain configuration. Extend cleanout pipes to the surface of ponding.
Plant Materials	See Section 3.6.5 Bioretention Landscaping Criteria	Establish plant materials as specified in the landscaping plan and the recommended plant list.

PERMEABLE PAVEMENT MAINTENANCE SCHEDULE

Frequency	Maintenance Tasks
After installation	<ul style="list-style-type: none"> For the first 6 months following construction, the practice and CDA should be inspected at least twice after storm events that exceed 0.5 inch of rainfall. Conduct any needed repairs or stabilization.
Once every 1-2 months during the growing season	<ul style="list-style-type: none"> Mow grass in grid paver applications (clippings should be removed from the pavement area).
As needed	<ul style="list-style-type: none"> Stabilize the CDA to prevent erosion. Remove any soil or sediment deposited on pavement. Replace or repair any pavement surfaces that are degenerating or spalling.
2-4 times per year (depending on use)	<ul style="list-style-type: none"> Mechanically sweep pavement with a standard street sweeper to prevent clogging.
Annually	<ul style="list-style-type: none"> Conduct a maintenance inspection Remove weeds as needed.
Once every 2-3 years	<ul style="list-style-type: none"> Remove any accumulated sediment in pretreatment cells and inflow points.
If clogged	<ul style="list-style-type: none"> Conduct maintenance using a regenerative street sweeper or a vacuum sweeper Replace any necessary joint material.

Seasonal Maintenance Considerations: Winter maintenance for permeable pavements is similar to standard pavements, with a few additional considerations:

- Large snow storage piles should be located in adjacent grassy areas so that sediment and pollutants in snowmelt are partially treated before they reach the permeable pavement.
- Sand or cinders should never be applied for winter traction over permeable pavement or areas of standard (impervious) pavement that drain toward permeable pavement, since it will quickly clog the system.
- When plowing plastic reinforced grid pavements, snow plow blades should be lifted 0.5 inch to 1 inch above the pavement surface to prevent damage to the paving blocks or turf. Porous asphalt, pervious concrete, and some permeable pavers can be plowed similarly to traditional pavements, using similar equipment and settings.
- Chloride products should be used judiciously to deice above permeable pavement designed for infiltration, since the salt will be transmitted through the pavement. Salt can be applied but environmentally sensitive deicers are recommended. Permeable pavement applications will generally require less salt application than traditional pavements.

PERMEABLE PAVEMENT MATERIAL SPECIFICATIONS

Pervious Concrete (PC)	Void content: 15-20% Thickness: Typically 4-8 inches Compressive strength: 2.8-28 MPa Open void fill media: None	May not require a reservoir layer to support the structural load, but a layer may be included to increase the storage or infiltration.
Bedding Layer	PC: 3-4 inches of No. 57 stone if No. 2 stone is used for Reservoir Layer PA: 3-4 inches of No. 57 stone PP: Follow manufacturer specifications	ASTM D448 size No. 57 stone (i.e., 1/2 to 1-1/2 inches in size). Must be washed clean and free of fines (no more than 2% passing the No. 200 sieve)

STATEMENT BY PROFESSIONAL ENGINEER REGISTERED IN THE DISTRICT OF COLUMBIA

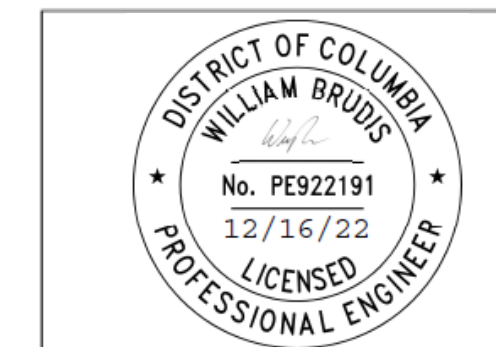
This is to certify that the engineering features of all stormwater best management practices (BMPs), stormwater infrastructure, and land covers (collectively the "Facility") have been designed/examined by me and found to be in conformity with modern engineering principles applicable to the treatment and disposal of stormwater pollutants. I further certify that the Facility has been designed in accordance with the specification required under Chapter 5 of Title 21 of the District of Columbia Municipal Regulations. It is also stated that the undersigned has furnished the applicant with a set of instructions for the maintenance and operation of the site's Facility.

William Brudis
Name and Title (please type)

11000 Broken Land Parkway, Suite 450
Address
Columbia, MD 21044

Date 12/16/2022 Phone No. 410-884-3607

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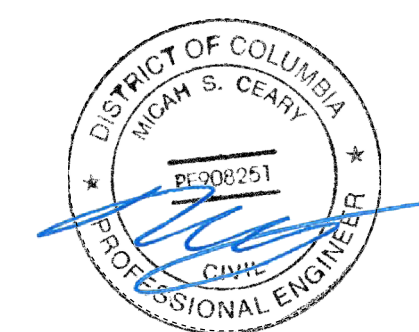
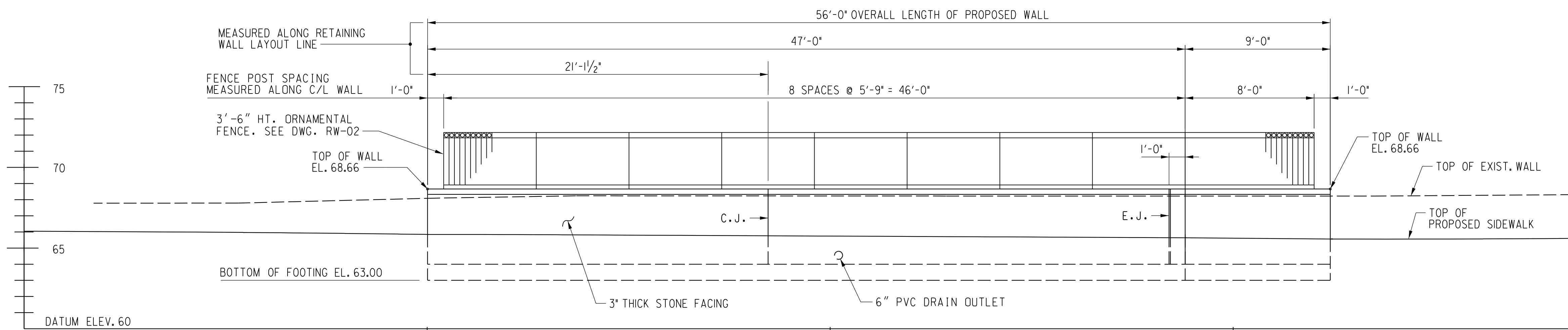
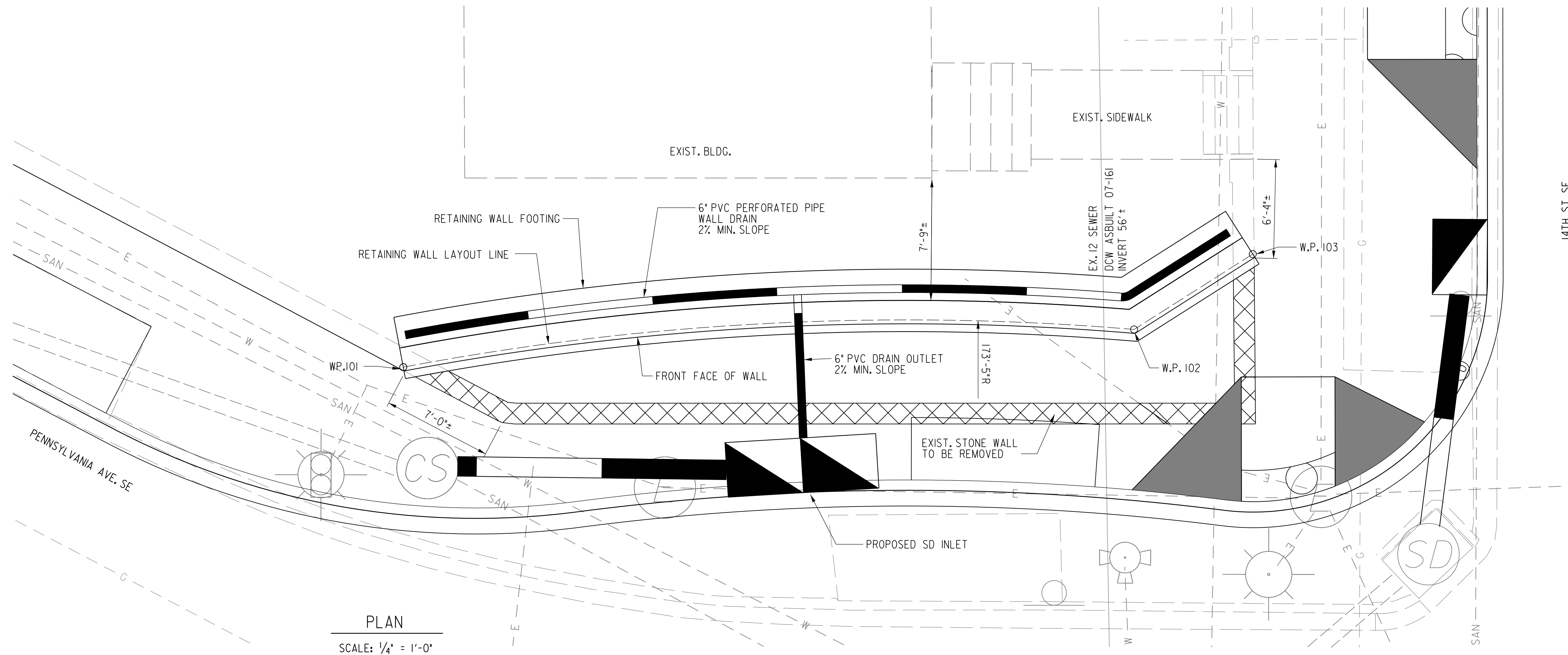


DATED: DECEMBER, 2022	SCALE: NOT TO SCALE	SW-10
D.C. DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT DIVISION		
PENNSYLVANIA AND POTOMAC AVE SE INTERSECTION IMPROVEMENT PROJECT		PROJECT ENG. _____ AP DESIGNED BY _____ AP CHECKED BY _____ SA DRAWN BY _____ DMK PROJECT MGR. _____ RKL
STORMWATER MANAGEMENT DETAILS		DIVISION CHIEF _____ DATE _____ FILE _____ SHEET 126 OF 167

NO.	DESCRIPTION	NAME	DATE

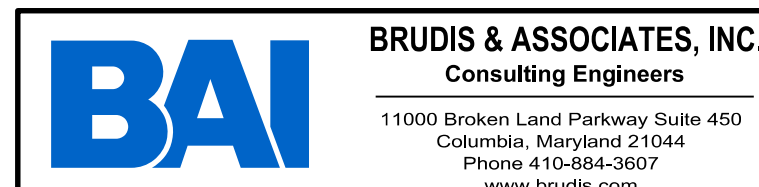
BAI BRUDIS & ASSOCIATES, INC.
Consulting Engineers
11000 Broken Land Parkway Suite 450
Columbia, Maryland 21044
Phone 410-884-3607
www.brudis.com

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.	FAP NO. STP - 2018 (009)	127	167



CONSTRUCTION WORKING POINT COORDINATES					
W.P.	STA.	OFFSET	N	E	RADIUS
101	102+64.59	-71.57' LT	442123.3847	1316374.1208	
102	103+4.92	-95.43' LT	442125.8861	1316420.9188	
103	303+42.79	-28.76' LT	442130.7250	1316428.5072	
104-CC	103+72.22	-64.40' RT	441953.0533	1316406.6908	173'-5"

FOR BASELINE CONSTRUCTION COORDINATES REFER TO DWG. GS-01



NO.	DESCRIPTION	NAME	DATE

DATED: DECEMBER, 2022 SCALE: AS SHOWN **RW-01**

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT DIVISION

PENNSYLVANIA AND POTOMAC AVE SE INTERSECTION IMPROVEMENT PROJECT

RETAINING WALL PLAN & ELEVATION

PROJECT ENG. MM
DESIGNED BY TM/MM
CHECKED BY TM
DRAWN BY MM
PROJECT MGR. RKL

DIVISION CHIEF

DATE _____
FILE _____
SHEET 127 OF 167

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REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.	FAP NO. STP - 2018 (009)	128	167

GENERAL NOTES

SPECIFICATIONS:

ALL CONSTRUCTION MATERIALS AND PROCEDURES SHALL BE GOVERNED BY THE "STANDARD SPECIFICATIONS FOR HIGHWAYS AND STRUCTURES," DATED 2013, ISSUED BY THE DISTRICT OF COLUMBIA DEPARTMENT OF PUBLIC WORKS.

MATERIALS:

ALL POSTS AND PICKETS SHALL BE HOT ROLLED STEEL CONFORMING TO A 787, G90. ALL RAIL CHANNELS SHALL BE ROLLED "U" CHANNELS CONFORMING TO A 653, G90. ALL STEEL SHALL BE HOT DIPPED GALVANIZED IN CONFORMANCE WITH A 525, G90.

ALL PICKETS FOR THE FENCES SHALL BE SQUARE WITH 16 GAUGE THICKNESS AND A TENSILE STRENGTH OF 50 KSI.

ALL HORIZONTAL RAILS FOR THE FENCE SHALL BE 1 3/8" WIDE BY 1 1/2" DEEP, AND SHALL BE ROLLED INTO "U" CHANNELS WITH A WALL THICKNESS OF 0.12 IN.

RAIL ATTACHMENT BRACKET SHALL BE DIE CAST OF ZINC PER ASTM B 86-83 Z 33521. BALL AND SOCKET DESIGN CAPABLE OF 30 DEGREES SWIVEL. BRACKET SHALL FULLY ENCAPSULATE RAIL END.

RINGS SHALL BE CAST ALUMINUM. ATTACH RINGS TO TOP RAIL BY INSERTING MOUNTING BLOCK INTO TOP RAIL AND RIVETING THROUGH SIDE OF RAIL USING 1/4" RIVET. HOLD BOTTOM OF RING IN PLACE BY INSERTING DOWEL THAT PROTRUDES FROM RING THROUGH PREDRILLED HOLE IN RAIL. RINGS MAY BE OMITTED IF THE SLOPE OF THE RAILING IS SET AT AN ANGLE MORE THAN 10 DEGREES.

VERTICAL POSTS FOR THE FENCE SHALL BE 2" SQUARE WITH A 14 GAUGE THICKNESS AND A TENSILE STRENGTH OF 50 KSI.

ALL ANCHOR PLATES SHALL BE STEEL CONFORMING TO A 709, GRADE 50.

ANCHOR STUDS OR ANCHOR BOLTS SHALL CONFORM TO A 276, TYPE 430 OR TYPE 304 STAINLESS STEEL ANNEALED, HOT-FINISHED, ULTIMATE STRENGTH 70 KSI MIN., 20% MIN. ELONGATION. THREADS MAY BE ROLLED OR CUT.

EPOXY GROUT FOR ANCHOR STUDS IN CORED HOLES SHALL CONFORM TO 902.11 (D).

CONSTRUCTION:

ALL PICKET, RAIL, BRACKET AND POST ATTACHMENTS SHALL BE MADE WITH 1/4" INDUSTRIAL DRIVE RIVETS.

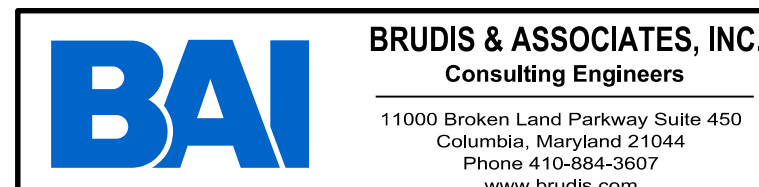
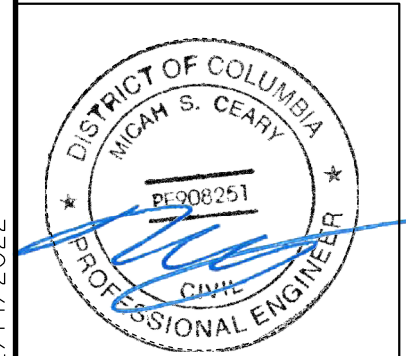
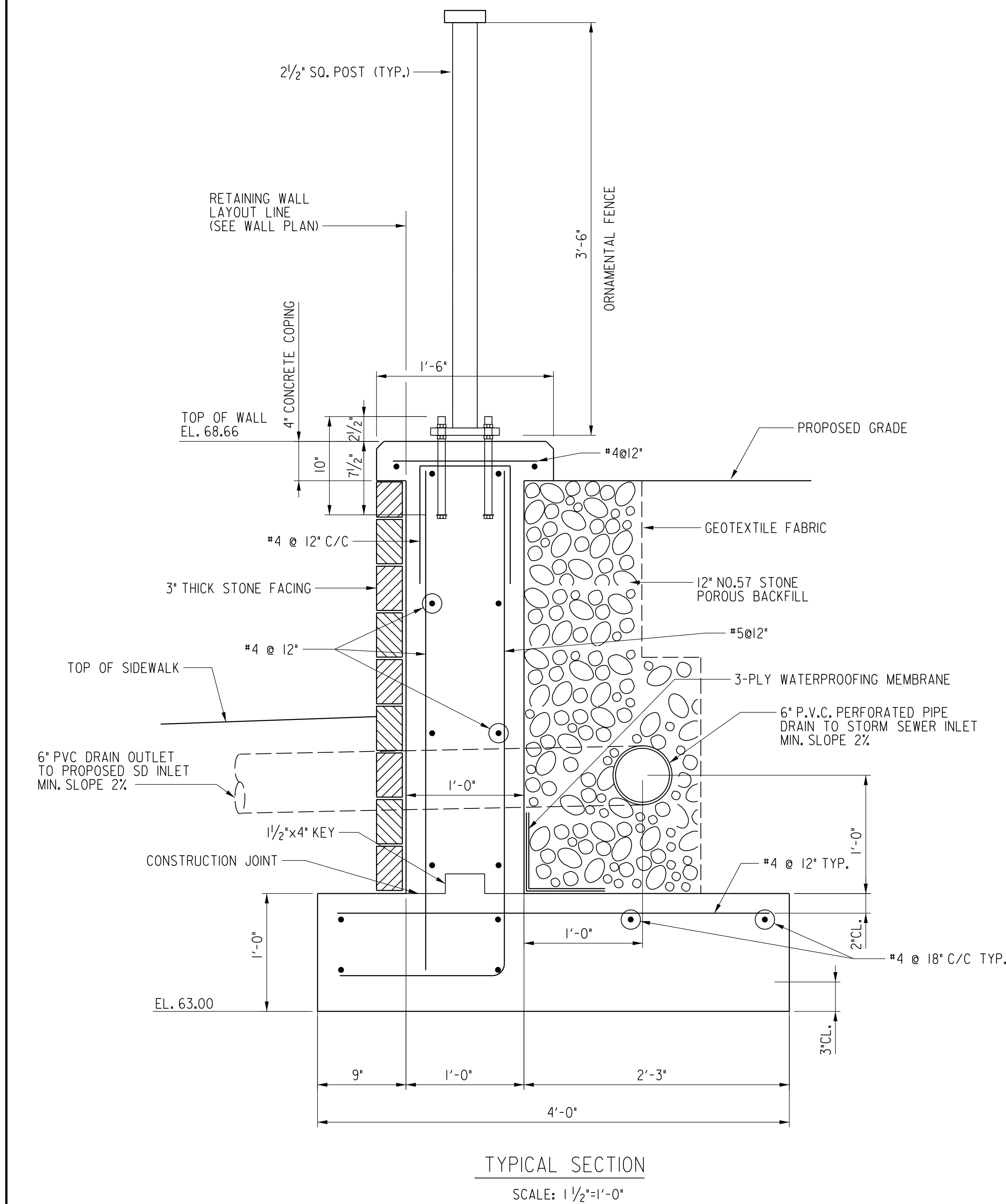
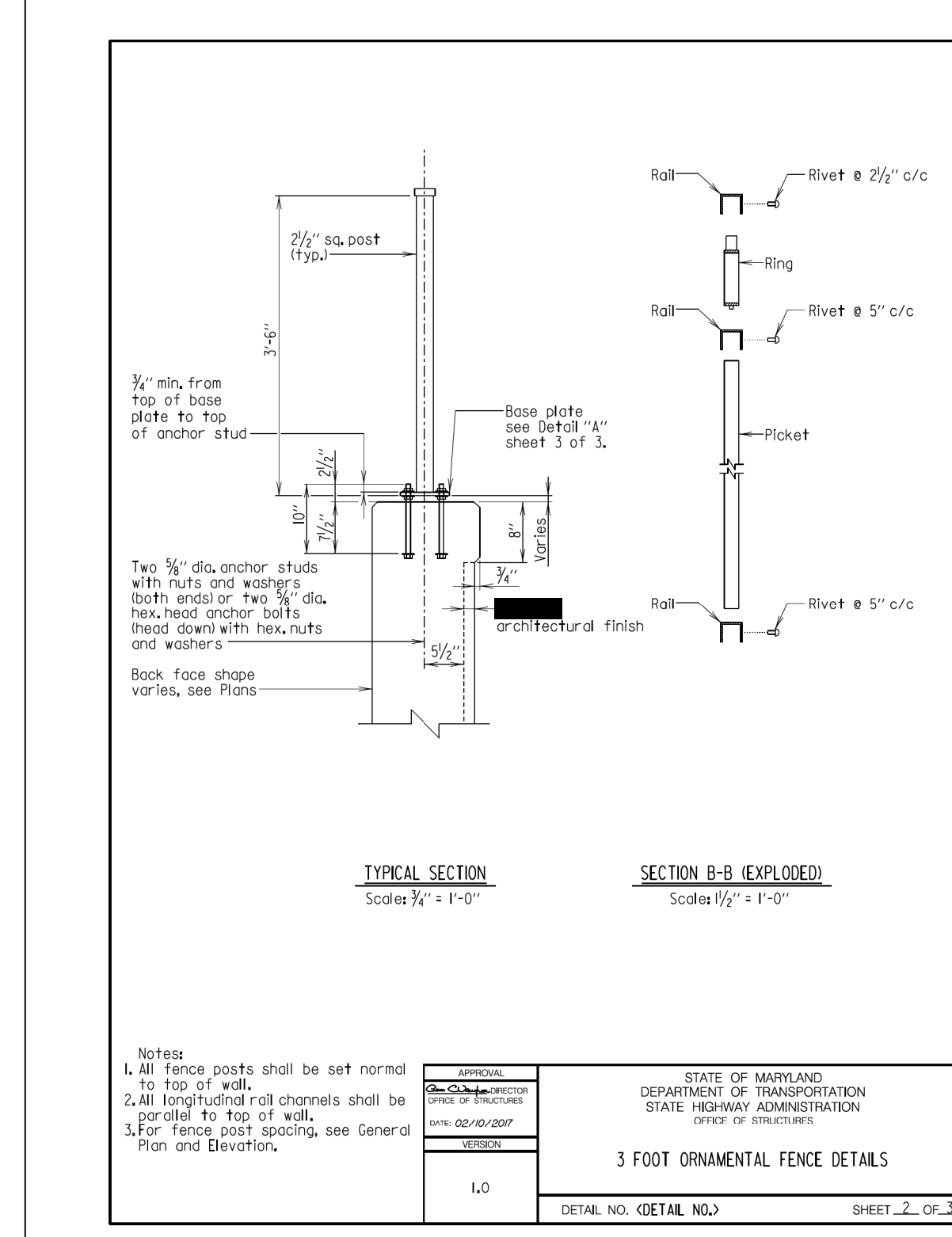
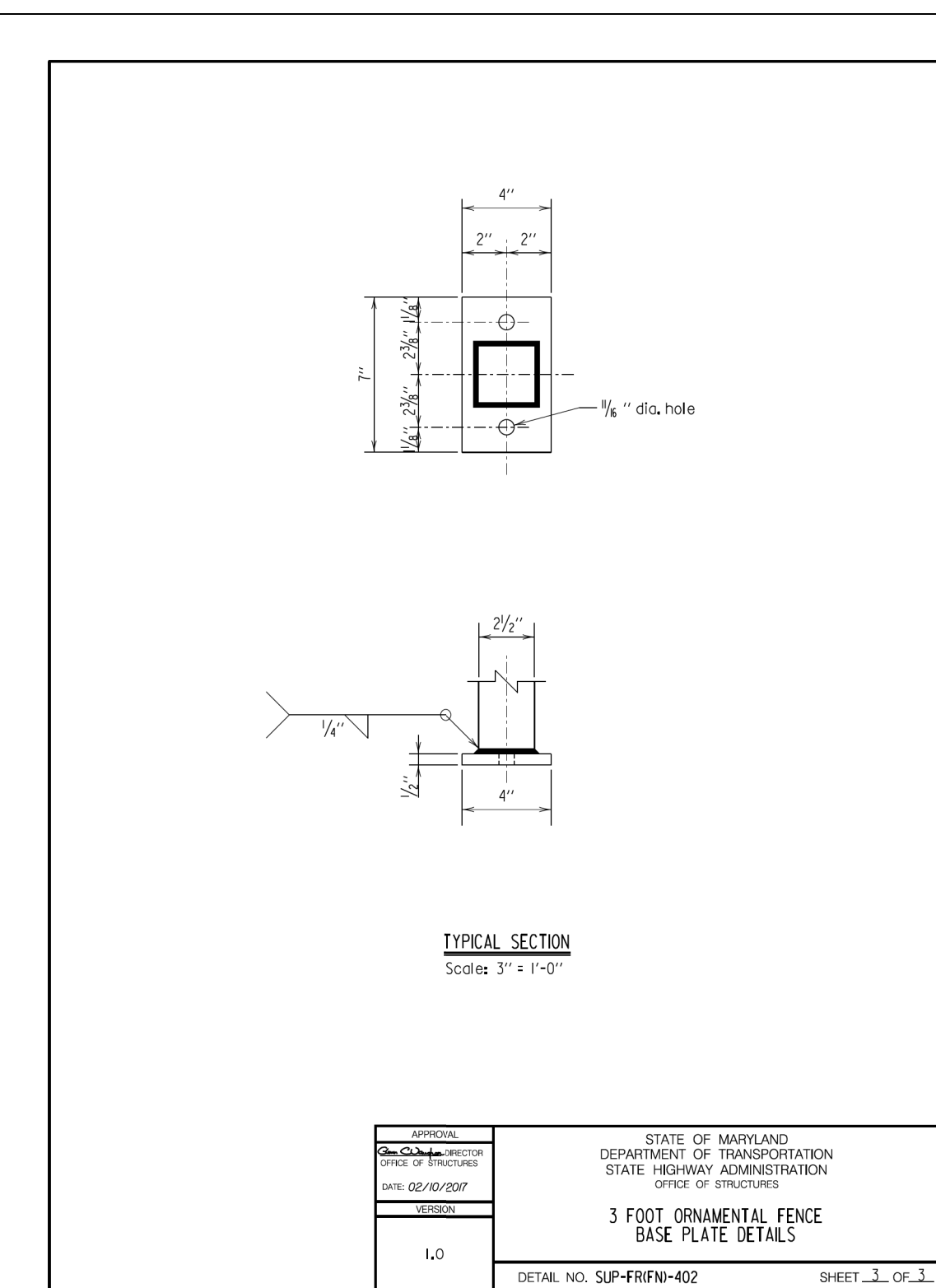
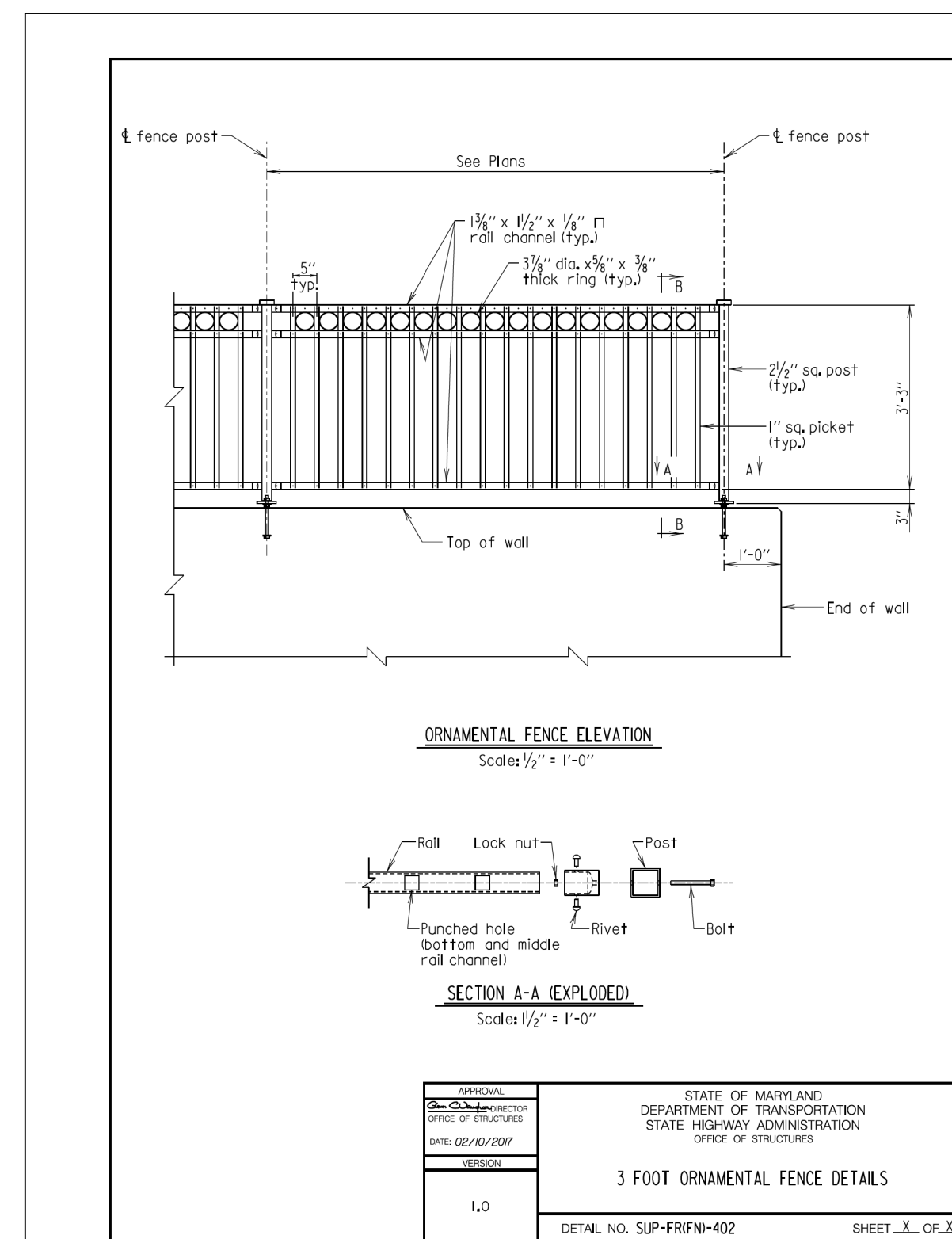
ALL LONGITUDINAL RAILS SHALL BE PARALLEL TO TOP OF WALL.

ALL METAL SHALL BE GIVEN A POLYESTER RESIN BASED POWDER COATING APPLIED BY THE ELECTROSTATIC SPRAY PROCESS.

THE FINISHED COLOR SHALL BE BLACK.

FOR POST SPACING SEE PERTINENT STRUCTURE SHEETS.

PRECOATED LONGITUDINAL RAILS, IF CUT, SHALL HAVE THE CUT END COATED WITH TOUCH UP MATERIAL SUPPLIED BY THE MANUFACTURER, PRIOR TO ERECTION.



NO.	DESCRIPTION	NAME	DATE

DATED: DECEMBER, 2022	SCALE: AS SHOWN	RW-02
D.C. DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT DIVISION		
PENNSYLVANIA AND POTOMAC AVE SE INTERSECTION IMPROVEMENT PROJECT		PROJECT ENG. <u>MM</u> DESIGNED BY <u>TM</u> / <u>MM</u> CHECKED BY <u>MM</u> DRAWN BY <u>MM</u> PROJECT MGR. <u>RKL</u>
RETAINING WALL TYPICAL SECTION		DIVISION CHIEF DATE _____ FILE _____ SHEET 128 OF 167

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REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.	FAP NO. STP - 2018 (009)	147	167

DOEE SOIL EROSION AND SEDIMENT CONTROL PLAN GENERAL NOTES

- FOLLOWING INITIAL LAND DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR INTERIM STABILIZATION MUST BE COMPLETED WITHIN SEVEN (7) CALENDAR DAYS FOR THE SURFACES OF ALL PERIMETER CONTROLS, DIKES, SWALES, DITCHES, PERIMETER SLOPES, AND SLOPES GREATER THAN THREE (3) HORIZONTAL TO ONE (1) VERTICAL (3:1); AND FOURTEEN (14) DAYS FOR ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE. THESE REQUIREMENTS DO NOT APPLY TO AREAS SHOWN ON THE PLAN THAT ARE USED FOR MATERIAL STORAGE OTHER THAN STOCKPILING, OR FOR THOSE AREAS ON THE PLAN WHERE ACTUAL CONSTRUCTION ACTIVITIES ARE BEING PERFORMED. MAINTENANCE SHALL BE PERFORMED AS NECESSARY SO THAT STABILIZED AREAS CONTINUOUSLY MEET THE APPROPRIATE REQUIREMENTS OF THE DISTRICT OF COLUMBIA STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL (ESC). [21 DCMR § 542.9 (O)]
- ESC MEASURES SHALL BE IN PLACE BEFORE AND DURING LAND DISTURBANCE. [21 DCMR § 543.6]
- CONTACT DOEE INSPECTION (202) 535-2977 TO SCHEDULE A PRECONSTRUCTION MEETING AT LEAST THREE (3) BUSINESS DAYS BEFORE THE COMMENCEMENT OF A LAND-DISTURBING ACTIVITY. [21 DCMR § 503.7 (A)]
- A COPY OF THE APPROVED PLAN SET WILL BE MAINTAINED AT THE CONSTRUCTION SITE FROM THE DATE THAT CONSTRUCTION ACTIVITIES BEGIN TO THE DATE OF FINAL STABILIZATION AND WILL BE AVAILABLE FOR DOEE INSPECTORS. [21 DCMR § 542.15]
- ESC MEASURES SHALL BE IN PLACE TO STABILIZE AN EXPOSED AREA AS SOON AS PRACTICABLE AFTER CONSTRUCTION ACTIVITY HAS TEMPORARILY OR PERMANENTLY CEASED BUT NO LATER THAN FOURTEEN (14) DAYS FOLLOWING CESSATION, EXCEPT THAT TEMPORARY OR PERMANENT STABILIZATION SHALL BE IN PLACE AT THE END OF EACH DAY OF UNDERGROUND UTILITY WORK THAT IS NOT CONTAINED WITHIN A LARGER DEVELOPMENT SITE. [21 DCMR § 543.7]
- STOCKPILED MATERIAL BEING ACTIVELY USED DURING A PHASE OF CONSTRUCTION SHALL BE PROTECTED AGAINST EROSION BY ESTABLISHING AND MAINTAINING PERIMETER CONTROLS AROUND THE STOCKPILE. [21 DCMR § 543.16 (A)]
- STOCKPILED MATERIAL NOT BEING ACTIVELY USED OR ADDED TO SHALL BE STABILIZED WITH MULCH, TEMPORARY VEGETATION, HYDRO-SEED OR PLASTIC WITHIN FIFTEEN (15) CALENDAR DAYS AFTER ITS LAST USE OR ADDITION. [21 DCMR § 543.16 (B)]
- FILL MATERIAL MUST BE FREE OF CONTAMINATION LEVELS OF ANY POLLUTANT THAT IS, OR MAY BE CONSIDERED TO REPRESENT, A POSSIBLE HEALTH HAZARD TO THE PUBLIC OR MAY BE DETRIMENTAL TO SURFACE OR GROUND WATER QUALITY, OR WHICH MAY CAUSE DAMAGE TO PROPERTY OR THE DRAINAGE SYSTEM. ALL FILL MATERIAL MUST BE FREE OF HAZARDOUS MATERIALS AND COMPLY WITH ALL APPLICABLE DISTRICT AND FEDERAL REGULATIONS.
- PROTECT BEST MANAGEMENT PRACTICES FROM SEDIMENTATION AND OTHER DAMAGE DURING CONSTRUCTION FOR PROPER POST CONSTRUCTION OPERATION. [21 DCMR § 543.5]
- REQUEST A DOEE INSPECTOR'S APPROVAL AFTER THE INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING. [21 DCMR § 542.12 (A)]
- REQUEST A DOEE INSPECTOR'S APPROVAL AFTER FINAL STABILIZATION OF THE SITE AND BEFORE THE REMOVAL OF EROSION AND SEDIMENT CONTROLS. [21 DCMR § 542.12 (B)]
- FINAL STABILIZATION MEANS THAT ALL LAND-DISTURBING ACTIVITIES AT THE SITE HAVE BEEN COMPLETED AND EITHER OF THE FOLLOWING TWO CRITERIA HAVE BEEN MET: (1) A UNIFORM (FOR EXAMPLE, EVENLY DISTRIBUTED, WITHOUT LARGE BARE AREAS) PERENNIAL VEGETATIVE COVER WITH A DENSITY OF SEVENTY PERCENT (70%) OF THE NATIVE BACKGROUND VEGETATIVE COVER FOR THE AREA HAS BEEN ESTABLISHED ON ALL UNPAVED AREAS AND AREAS NOT COVERED BY PERMANENT STRUCTURES, OR (2) EQUIVALENT PERMANENT STABILIZATION MEASURES HAVE BEEN EMPLOYED (SUCH AS THE USE OF RIPRAP, GABIONS, OR GEOTEXTILES). [21 DCMR § 542.12 (B.1, B.2)]
- FOLLOW THE REQUIREMENTS OF THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY APPROVED STORMWATER POLLUTION PREVENTION PLAN (SWPPP) AND MAINTAIN A LEGIBLE COPY OF THIS SWPPP ON SITE. [21 DCMR § 543.10 (B)]
- POST A SIGN THAT NOTIFIES THE PUBLIC TO CONTACT DOEE IN THE EVENT OF EROSION OR OTHER POLLUTION. THE SIGN WILL BE PLACED AT EACH ENTRANCE TO THE SITE OR AS DIRECTED BY THE DOEE INSPECTOR. EACH SIGN WILL BE NO LESS THAN 18 X 24 INCHES IN SIZE AND MADE OF MATERIALS THAT WILL WITHSTAND WEATHER FOR THE DURATION OF THE PROJECT. LETTERING WILL BE AT LEAST 1 INCH IN HEIGHT AND EASILY READABLE BY THE PUBLIC FROM A DISTANCE OF TWELVE FEET (12 FT). THE SIGN MUST DIRECT THE PUBLIC, IN SUBSTANTIALLY THE FOLLOWING FORM: "TO REPORT EROSION, RUNOFF, OR STORMWATER POLLUTION" AND WILL PROVIDE THE CONSTRUCTION SITE ADDRESS, DOEE'S TELEPHONE NUMBER (202-535-2977), DOEE'S E-MAIL ADDRESS (IEB.SCHEDULING@DC.GOV), AND THE 311 MOBILE APP HEADING ("CONSTRUCTION-EROSION RUNOFF"). [21 DCMR § 543.22]
- A RESPONSIBLE PERSON MUST BE PRESENT OR AVAILABLE WHILE THE SITE IS IN A LAND-DISTURBING PHASE. THE RESPONSIBLE PERSON IS CHARGED WITH BEING AVAILABLE TO (A) INSPECT THE SITE AND ITS ESC MEASURES AT LEAST ONCE BIWEEKLY AND AFTER A RAINFALL EVENT TO IDENTIFY AND REMEDY EACH POTENTIAL OR ACTUAL EROSION PROBLEM, (B) RESPOND TO EACH POTENTIAL OR ACTUAL EROSION PROBLEM IDENTIFIED BY CONSTRUCTION PERSONNEL, AND (C) SPEAK ON SITE WITH DOEE TO REMEDY EACH POTENTIAL OR ACTUAL EROSION PROBLEM. A RESPONSIBLE PERSON SHALL BE (A) LICENSED IN THE DISTRICT OF COLUMBIA AS A CIVIL OR GEOTECHNICAL ENGINEER, A LAND SURVEYOR, OR ARCHITECT; OR (B) CERTIFIED THROUGH A TRAINING PROGRAM THAT DOEE APPROVES, INCLUDING A COURSE ON EROSION CONTROL PROVIDED BY ANOTHER JURISDICTION OR PROFESSIONAL ASSOCIATION. DURING CONSTRUCTION, THE RESPONSIBLE PERSON SHALL KEEP ON SITE PROOF OF PROFESSIONAL LICENSING OR OF SUCCESSFUL COMPLETION OF A DOEE-APPROVED TRAINING PROGRAM. [21 DCMR § 547]

EROSION & SEDIMENT CONTROL NOTES:

- CONTRACTOR TO OBTAIN ALL NECESSARY PERMITS. THE CONTRACTOR CONTACT DC DEPARTMENT OF ENVIRONMENT, WATERSHED PROTECTION DIVISION AT (202-535-2250) TO SCHEDULE PRE-CONSTRUCTION MEETING.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT MISS UTILITY AT 1-800-257-7777 FORTY-EIGHT (48 HOURS) PRIOR TO BEGINNING EXCAVATION TO DETERMINE LOCATION OF EXISTING UTILITIES.
- CONTRACTOR MUST NOTIFY THE DEPARTMENT OF THE ENVIRONMENT BY PHONE (202-535-2250) AT LEAST 24 HOURS PRIOR TO START OF ANY CONSTRUCTION ACTIVITY AND WITHIN TWO (2) WEEKS AFTER COMPLETION OF PROJECT TO REQUEST INSPECTION.
- FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT STABILIZATION SHALL BE COMPLETED WITHIN SEVEN (7) CALENDAR DAYS TO ALL DISTURBED AREAS ON THE SITE.
- THE CONTRACTOR SHALL CONDUCT OPERATIONS AND MAINTAIN THE PROJECT SITE AS TO MINIMIZE THE CREATION AND DISPERSION OF DUST. DUST CONTROL SHALL BE USED THROUGHOUT THE WORK AT THE SITE.
- ALL SEDIMENT AND EROSION CONTROL METHOD SHALL BE INSTALLED PRIOR TO START OF ANY EXCAVATION AND/OR CONSTRUCTION FOR SOIL EROSION AND SEDIMENT CONTROL FOR THE DISTRICT OF COLUMBIA.
- ALL DEBRIS IS TO BE REMOVED FROM THE SITE.
- ALLEY AND/OR STREETS AND SIDEWALKS SHALL BE SWEEPED CLEAN AT ALL TIMES DURING EXCAVATION AND CONSTRUCTION.
- ALL CATCH BASINS AND DRAINAGE INLETS SHALL BE PROTECTED DURING EXCAVATION AND CONSTRUCTION. IF ANY CATCH BASIN OR DRAIN AREA BECOMES CLOGGED AS A RESULT OF EXCAVATION OR CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ITS CLEANING.
- THE CONTRACTOR SHALL INSTALL SEDIMENT CONTROL PROTECTION FOR NEW INLETS IMMEDIATELY AFTER THE INLETS ARE CONSTRUCTED. WITH PERMISSION OF ON-SITE DOEE INSPECTOR, THE EXISTING INLETS SHALL BE CONVERTED TO MANHOLE COVER.
- THE CONTRACTOR SHALL INSTALL SEDIMENT CONTROL PROTECTION FOR EXISTING NEARBY INLETS OUTSIDE THE LIMIT OF WORK THAT ARE IMPACTED BY THE CONSTRUCTION.
- THE CONTRACTOR RESPONSIBLE TO DIVERT ANY CLEAN WATER FROM OFFSITE ENTERING TO LIMIT OF DISTURBANCE TO THE NEAREST INLETS USING EROSION AND SEDIMENT CONTROL METHOD WITH PERMISSION OF ON-SITE DOEE INSPECTOR.
- TREES TO BE PROTECTED SHALL BE FENCED AROUND THE TREE BOX.
- ALL STABILIZATION SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE LATEST VERSION OF D.C. STANDARD SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, ARTICLE No. 618.
NOTE: ANY DISTURBED AREA NOT PAVED, SODDED OR BUILT UPON BY OCTOBER 15, IS TO BE SEEDED AND MULCHED ON THAT DATE UNLESS WAVED BY THE ENGINEER.
- THE CONTRACTOR SHALL INSPECT ALL EROSION AND SEDIMENT CONTROL MEASURES PERIODICALLY AND AFTER EACH RAINFALL EVENT. ANY REPAIR OR CLEAN UP NECESSARY TO MAINTAIN THE EFFECTIVENESS OF THE SEDIMENT AND EROSION CONTROL MEASURES SHALL BE DONE IMMEDIATELY.
- DURING ALL PHASES OF CONSTRUCTION AND DURATION OF THE CONTRACT THE TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH THE CONTRACT DRAWINGS (MOT) PLANS AND SPECIAL PREVISIONS. TEMPORARY TRAFFIC CONTROL SIGNS SHALL NOT BE INSTALLED AT THE TREE PROTECTION STRUCTURES.
- THE CONSTRUCTION OF BMP'S BIORETENTION FACILITIES SHALL OCCUR AFTER COMPLETION OF SEDIMENT CONTROL ACTIVITIES FOR EACH PHASES AND WITH PERMISSION OF ON-SITE DOEE INSPECTOR.
- PRIOR TO REMOVING ANY SEDIMENT AND EROSION CONTROL MEASURES, APPROVAL MUST BE GIVEN FROM DOEE.

NOTE:

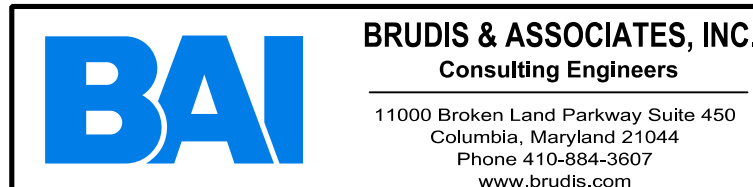
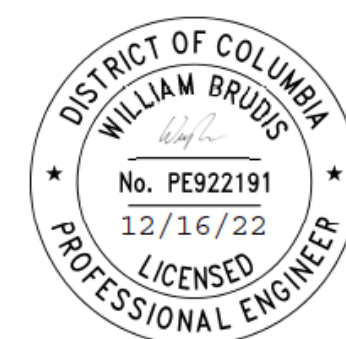
NO STOCKPILE AREAS HAVE BEEN PROVIDED. NO DEBRIS OR SPOIL MATERIAL SHALL BE STORED ON-SITE. ALL SUCH MATERIAL WILL BE IMMEDIATELY HAULED AWAY OR DISPOSED OF IN DUMPSTER.

BIORETENTION 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 CURB 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, THE INSTALLER, AND DOEE INSPECTOR MUST 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 INSPECTOR. MATERIAL CERTIFICATIONS FOR AGGREGATE, SOIL MEDIA AND ANY GEOTEXTILES MUST BE SUBMITTED FOR APPROVAL TO THE INSPECTOR AT THE PRECONSTRUCTION MEETING.
- TEMPORARY SOIL EROSION AND SEDIMENT CONTROLS (E.G., DIVERSION DIKES, REINFORCED SILT FENCES) 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 PRETREATMENT CELLS SHOULD BE EXCAVATED FIRST AND THEN SEALED TO TRAP SEDIMENT.
- 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-SQUARE FOOT TEMPORARY CELLS WITH A 10- TO 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.
- IF USING A GEOTEXTILE FABRIC, PLACE THE 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 NO. 57 STONE (CLEAN DOUBLE WASHED) ON THE BOTTOM, INSTALL THE PERFORATED UNDERDRAIN PIPE, PACK NO. 57 STONE TO 3 INCHES ABOVE THE UNDERDRAIN PIPE, AND ADD THE CHOKING LAYER OR APPROPRIATE GEOTEXTILE LAYER AS A FILTER BETWEEN THE UNDERDRAIN AND THE SOIL MEDIA LAYER. IF NO STONE STORAGE LAYER IS USED, START WITH 6 INCHES OF NO. 57 STONE ON THE BOTTOM AND PROCEED WITH THE LAYERING AS DESCRIBED ABOVE.
- PREPARE PLANTING HOLES FOR ANY TREES AND SHRUBS, INSTALL THE VEGETATION, AND WATER ACCORDINGLY. INSTALL ANY TEMPORARY IRRIGATION.
- INSTALL THE PLANT MATERIALS AS SHOWN IN THE LANDSCAPING PLAN, AND WATER THEM AS NEEDED
- PLACE THE SURFACE COVER (I.E., MULCH, RIVER STONE, OR TURF) IN BOTH CELLS, DEPENDING ON THE DESIGN. IF COIR OR JUTE MATTING WILL BE USED IN LIEU OF MULCH, THE MATTING WILL NEED TO BE INSTALLED PRIOR TO PLANTING (STEP 10), AND HOLES OR SLITS WILL HAVE TO BE CUT IN THE MATTING TO INSTALL THE PLANTS.
- IF CURB CUTS OR INLETS ARE BLOCKED DURING BIORETENTION INSTALLATION, UNBLOCK THESE AFTER THE DRAINAGE AREA AND SIDE SLOPES HAVE GOOD VEGETATIVE COVER. IT IS RECOMMENDED THAT UNBLOCKING CURB CUTS AND INLETS TAKE PLACE AFTER TWO TO THREE STORM EVENTS IF THE DRAINAGE AREA INCLUDES NEWLY INSTALLED ASPHALT, SINCE NEW ASPHALT TENDS TO PRODUCE A LOT OF FINES AND GRIT DURING THE FIRST SEVERAL STORMS.
- CONDUCT THE FINAL CONSTRUCTION INSPECTION USING A QUALIFIED PROFESSIONAL, PROVIDING DOEE WITH AN AS-BUILT, THEN LOG THE GPS COORDINATES FOR EACH BIORETENTION FACILITY, AND SUBMIT THEM FOR ENTRY INTO THE MAINTENANCE TRACKING DATABASE.

SITE DISTURBANCE:

SITE INFORMATION:	PENNSYLVANIA AND POTOMAC AVENUES SE
TOTAL AREA OF SITE:	2.32 AC
AREA DISTURBED:	3.55 AC
TOTAL CUT:	2320 CY
TOTAL FILL:	890 CY
OFFSITE WASTE/BORROW:	CY



NO.	DESCRIPTION	NAME	DATE

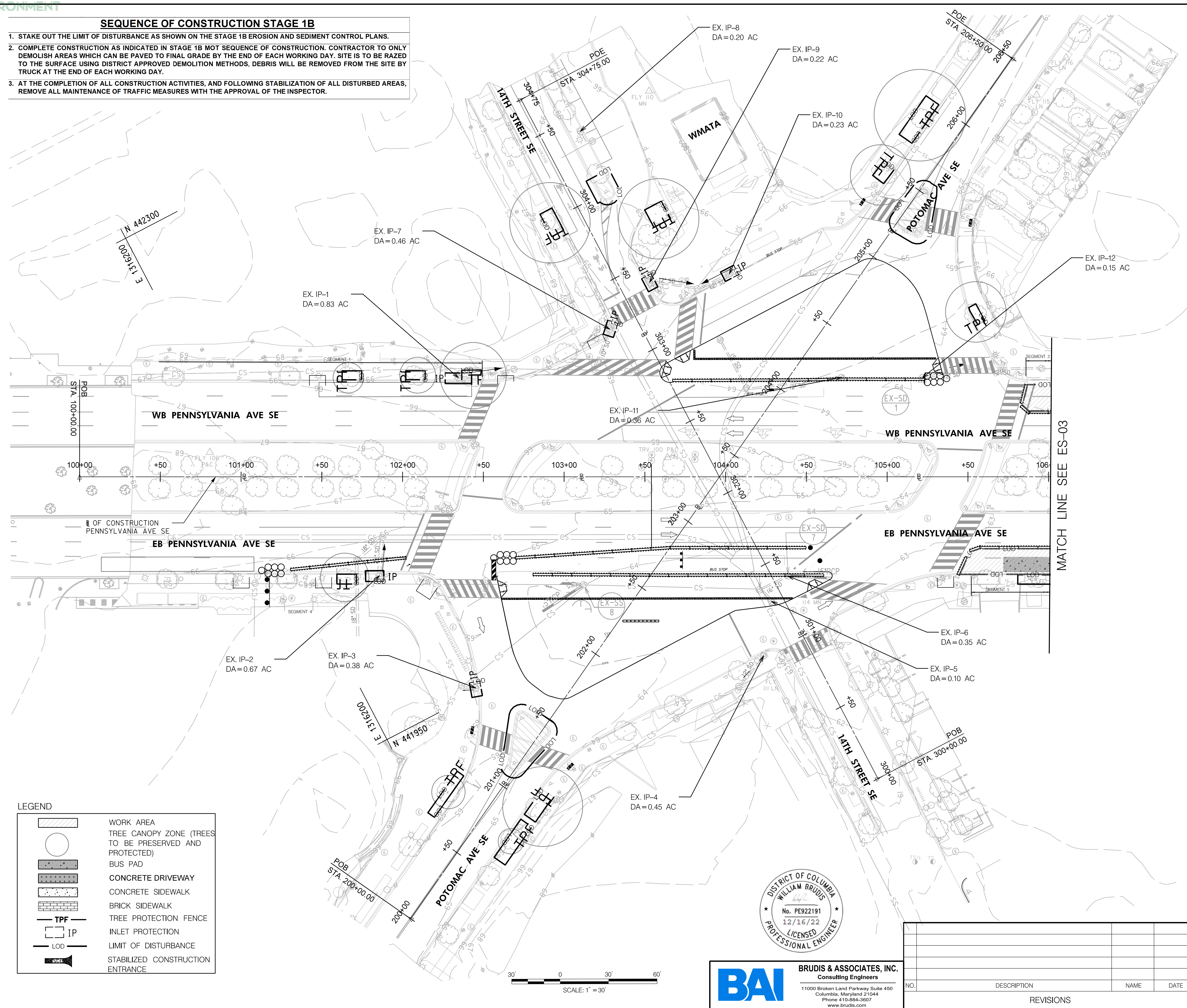
REVISIONS

DATED: DECEMBER, 2022	SCALE: NTS	EN-01
D.C. DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT DIVISION		
PENNSYLVANIA AND POTOMAC AVE SE INTERSECTION IMPROVEMENT PROJECT		PROJECT ENG. <u>MTW/JA</u> DESIGNED BY <u>MTW/JA</u> CHECKED BY <u>SA</u> DRAWN BY <u>MTW</u> PROJECT MGR. <u>RKL</u>
EROSION AND SEDIMENT CONTROL GENERAL NOTES AND SEQUENCE OF CONSTRUCTION		DIVISION CHIEF DATE _____ FILE _____ SHEET 147 OF 167

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
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SEQUENCE OF CONSTRUCTION STAGE 1B

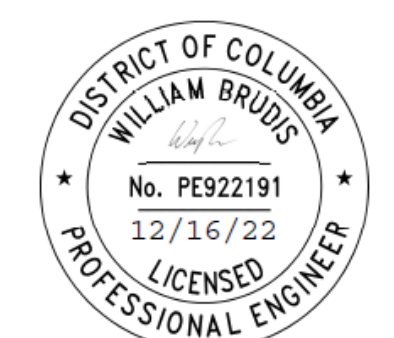
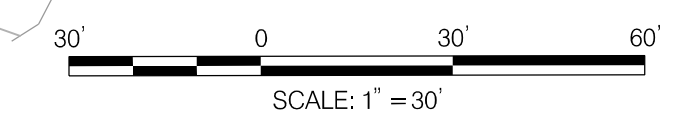
1. STAKE OUT THE LIMIT OF DISTURBANCE AS SHOWN ON THE STAGE 1B EROSION AND SEDIMENT CONTROL PLANS.
2. COMPLETE CONSTRUCTION AS INDICATED IN STAGE 1B MOT SEQUENCE OF CONSTRUCTION. CONTRACTOR TO ONLY DEMOLISH AREAS WHICH CAN BE PAVED TO FINAL GRADE BY THE END OF EACH WORKING DAY. SITE IS TO BE RAZED TO THE SURFACE USING DISTRICT APPROVED DEMOLITION METHODS. DEBRIS WILL BE REMOVED FROM THE SITE BY TRUCK AT THE END OF EACH WORKING DAY.
3. AT THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES, AND FOLLOWING STABILIZATION OF ALL DISTURBED AREAS, REMOVE ALL MAINTENANCE OF TRAFFIC MEASURES WITH THE APPROVAL OF THE INSPECTOR.



MATCH LINE SEE ES-03

LEGEND

	WORK AREA
	TREE CANOPY ZONE (TREES TO BE PRESERVED AND PROTECTED)
	BUS PAD
	CONCRETE DRIVEWAY
	CONCRETE SIDEWALK
	BRICK SIDEWALK
	TREE PROTECTION FENCE
	INLET PROTECTION
	LIMIT OF DISTURBANCE
	STABILIZED CONSTRUCTION ENTRANCE

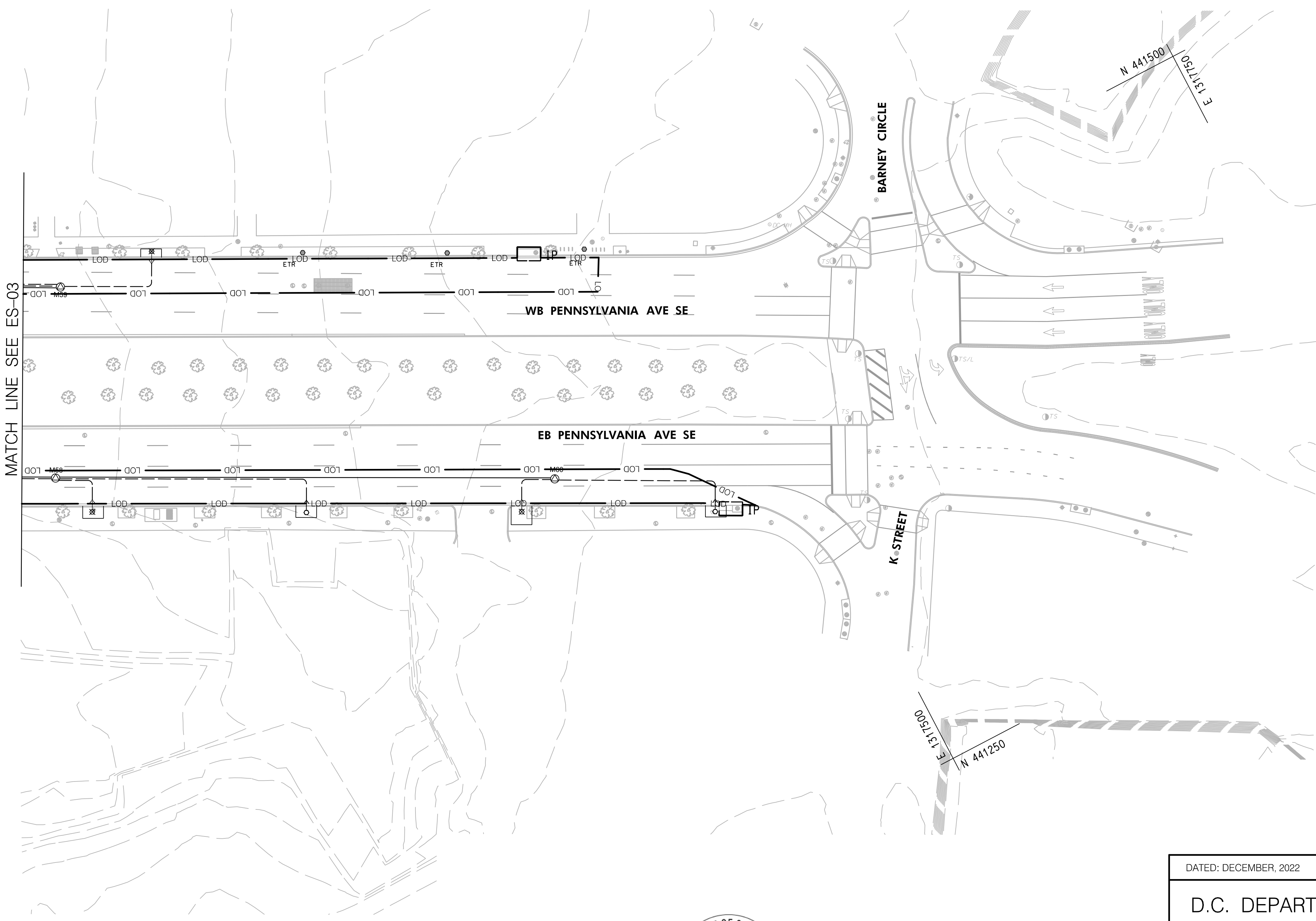


BAI BRUDIS & ASSOCIATES, INC.
 Consulting Engineers
 11000 Broken Land Parkway Suite 450
 Columbia, Maryland 21044
 Phone 410-884-3607
 www.brudis.com

DATED: DECEMBER, 2022	SCALE: 1" = 30'	ES-02
D.C. DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT DIVISION		
PENNSYLVANIA AND POTOMAC AVE SE INTERSECTION IMPROVEMENT PROJECT		PROJECT ENG. <u>MTW/JA</u> DESIGNED BY <u>MTW/JA</u> CHECKED BY <u>SA</u> DRAWN BY <u>MS</u> PROJECT MGR. <u>RKL</u>
EROSION AND SEDIMENT CONTROL PLAN - STAGE 1B		DIVISION CHIEF DATE _____ FILE _____
NO. _____ DESCRIPTION _____ NAME _____ DATE _____		SHEET 149 OF 167

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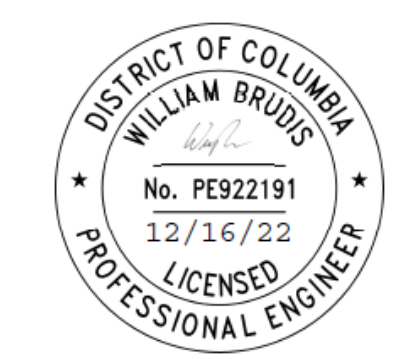
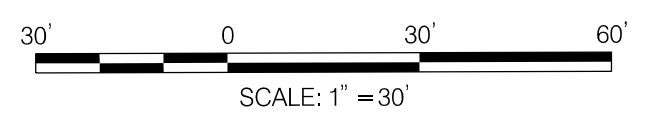
REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.	FAP NO. STP - 2018 (009)	151	167



MATCH LINE SEE ES-03

LEGEND

	WORK AREA
	TREE CANOPY ZONE (TREES TO BE PRESERVED AND PROTECTED)
	BUS PAD
	CONCRETE DRIVEWAY
	CONCRETE SIDEWALK
	BRICK SIDEWALK
	TREE PROTECTION FENCE
	INLET PROTECTION
	LIMIT OF DISTURBANCE
	STABILIZED CONSTRUCTION ENTRANCE



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NO.	DESCRIPTION	NAME	DATE
REVISIONS			

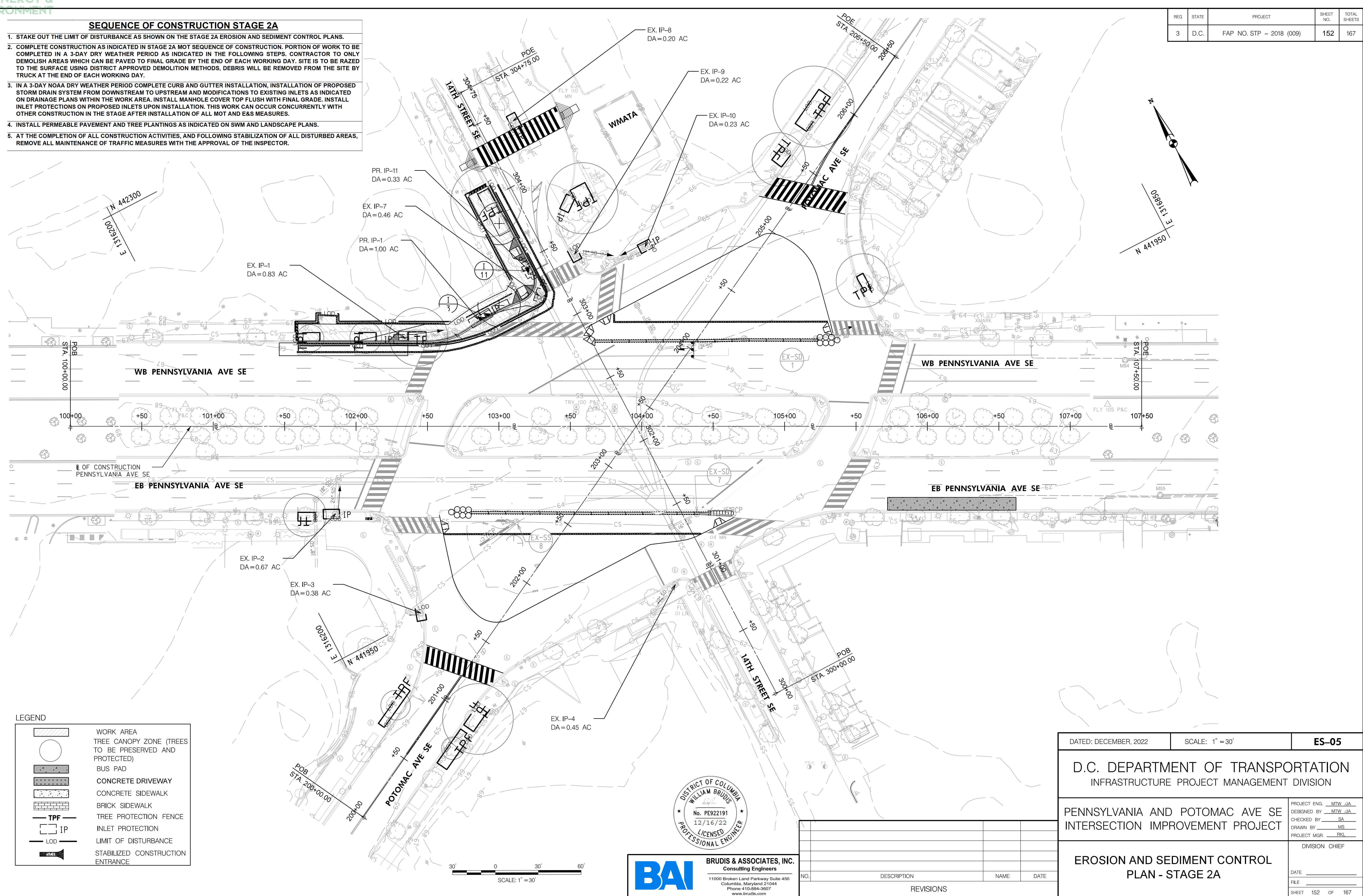
DATED: DECEMBER, 2022	SCALE: 1" = 30'	ES-04
D.C. DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT DIVISION		
PENNSYLVANIA AND POTOMAC AVE SE INTERSECTION IMPROVEMENT PROJECT		PROJECT ENG. <u>MTW /JA</u> DESIGNED BY <u>MTW /JA</u> CHECKED BY <u>SA</u> DRAWN BY <u>MS</u> PROJECT MGR. <u>RKL</u>
EROSION AND SEDIMENT CONTROL PLAN - STAGE 1B		DIVISION CHIEF DATE _____ FILE _____ SHEET 151 OF 167

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REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.	FAP NO. STP - 2018 (009)	152	167

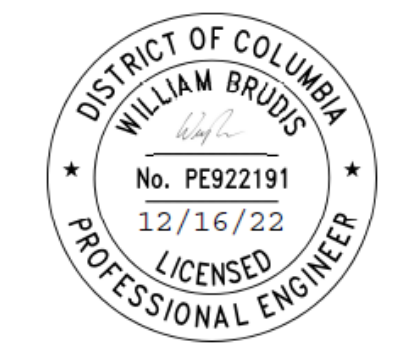
SEQUENCE OF CONSTRUCTION STAGE 2A

1. STAKE OUT THE LIMIT OF DISTURBANCE AS SHOWN ON THE STAGE 2A EROSION AND SEDIMENT CONTROL PLANS.
2. COMPLETE CONSTRUCTION AS INDICATED IN STAGE 2A MOT SEQUENCE OF CONSTRUCTION. PORTION OF WORK TO BE COMPLETED IN A 3-DAY DRY WEATHER PERIOD AS INDICATED IN THE FOLLOWING STEPS. CONTRACTOR TO ONLY DEMOLISH AREAS WHICH CAN BE PAVED TO FINAL GRADE BY THE END OF EACH WORKING DAY. SITE IS TO BE RAZED TO THE SURFACE USING DISTRICT APPROVED DEMOLITION METHODS. DEBRIS WILL BE REMOVED FROM THE SITE BY TRUCK AT THE END OF EACH WORKING DAY.
3. IN A 3-DAY NOAA DRY WEATHER PERIOD COMPLETE CURB AND GUTTER INSTALLATION. INSTALLATION OF PROPOSED STORM DRAIN SYSTEM FROM DOWNSTREAM TO UPSTREAM AND MODIFICATIONS TO EXISTING INLETS AS INDICATED ON DRAINAGE PLANS WITHIN THE WORK AREA. INSTALL MANHOLE COVER TOP FLUSH WITH FINAL GRADE. INSTALL INLET PROTECTIONS ON PROPOSED INLETS UPON INSTALLATION. THIS WORK CAN OCCUR CONCURRENTLY WITH OTHER CONSTRUCTION IN THE STAGE AFTER INSTALLATION OF ALL MOT AND E&S MEASURES.
4. INSTALL PERMEABLE PAVEMENT AND TREE PLANTINGS AS INDICATED ON SWM AND LANDSCAPE PLANS.
5. AT THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES, AND FOLLOWING STABILIZATION OF ALL DISTURBED AREAS, REMOVE ALL MAINTENANCE OF TRAFFIC MEASURES WITH THE APPROVAL OF THE INSPECTOR.



LEGEND

	WORK AREA
	TREE CANOPY ZONE (TREES TO BE PRESERVED AND PROTECTED)
	BUS PAD
	CONCRETE DRIVEWAY
	CONCRETE SIDEWALK
	BRICK SIDEWALK
	TREE PROTECTION FENCE
	INLET PROTECTION
	LIMIT OF DISTURBANCE
	STABILIZED CONSTRUCTION ENTRANCE



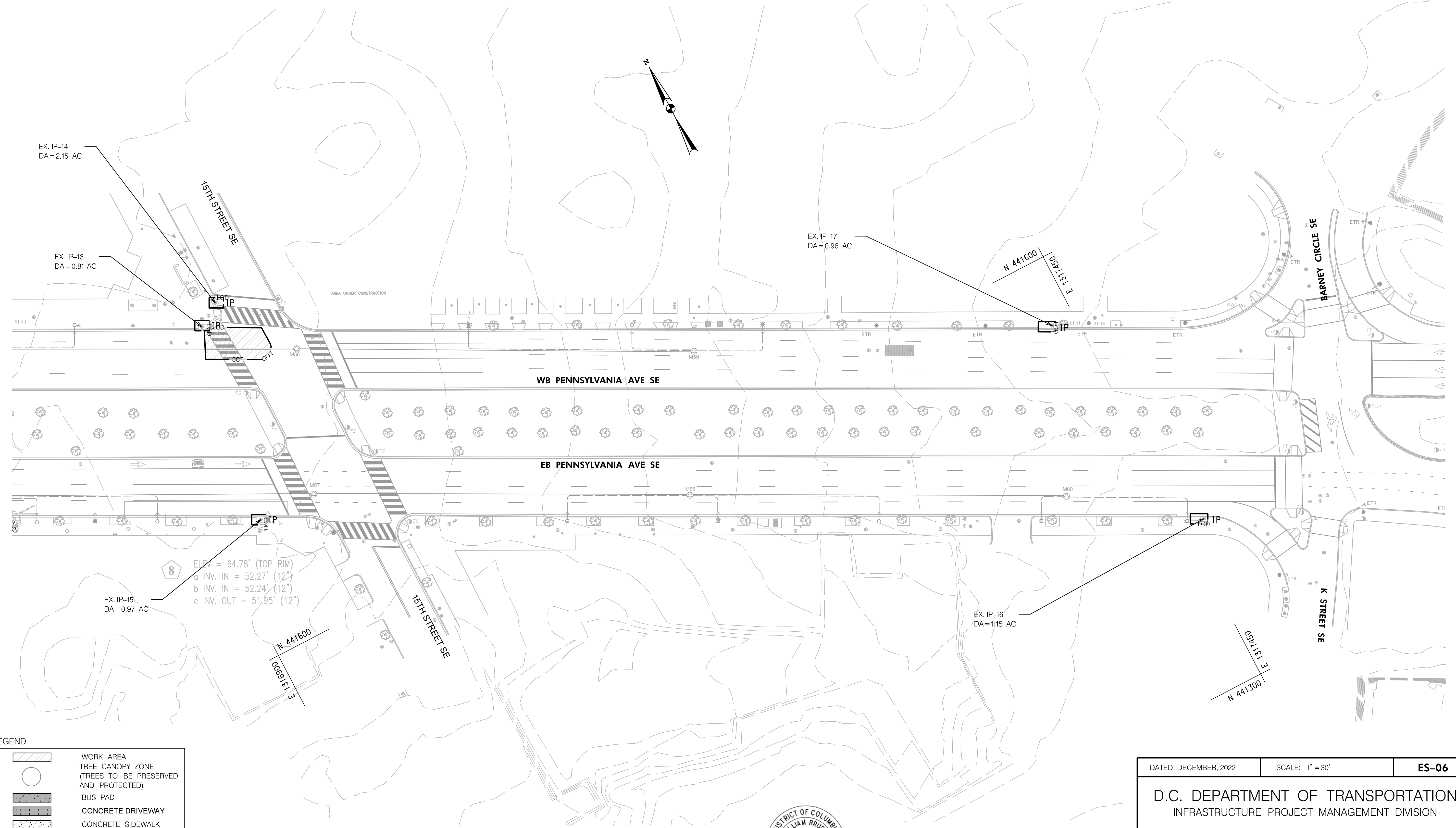
BAI BRUDIS & ASSOCIATES, INC.
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DATED: DECEMBER, 2022	SCALE: 1" = 30'	ES-05
D.C. DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT DIVISION		
PENNSYLVANIA AND POTOMAC AVE SE INTERSECTION IMPROVEMENT PROJECT		PROJECT ENG. <u>MTW/JA</u> DESIGNED BY <u>MTW/JA</u> CHECKED BY <u>SA</u> DRAWN BY <u>MS</u> PROJECT MGR. <u>RKL</u>
EROSION AND SEDIMENT CONTROL PLAN - STAGE 2A		DIVISION CHIEF DATE _____ FILE _____
REVISIONS		SHEET 152 OF 167

P:\17-005 DDOT AE Schedule\1. Pennsylvania Ave. Potomac Ave Improvements\CADD\Working\DES-P201_Penn Ave & Potomac Ave.dgn
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REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.	FAP NO. STP - 2018 (009)	153	167

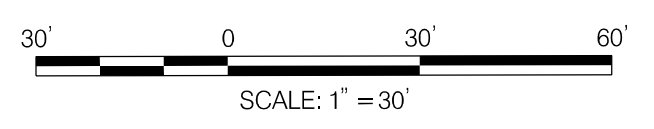
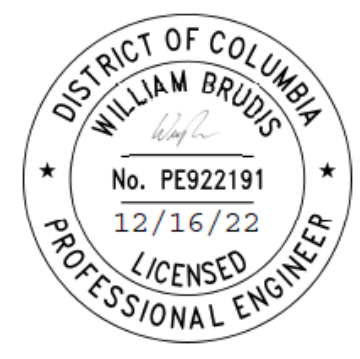
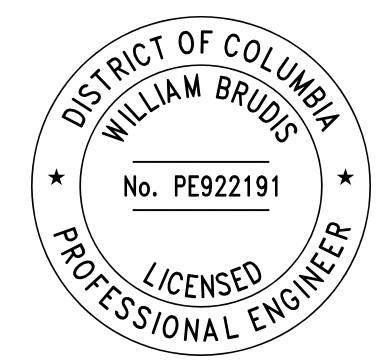
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8
 ELEV = 64.78' (TOP RIM)
 a INV. IN = 52.27' (12")
 b INV. IN = 52.24' (12")
 c INV. OUT = 51.95' (12")

LEGEND

	WORK AREA
	TREE CANOPY ZONE (TREES TO BE PRESERVED AND PROTECTED)
	BUS PAD
	CONCRETE DRIVEWAY
	CONCRETE SIDEWALK
	BRICK SIDEWALK
	TREE PROTECTION FENCE
	INLET PROTECTION
	LIMIT OF DISTURBANCE
	STABILIZED CONSTRUCTION ENTRANCE



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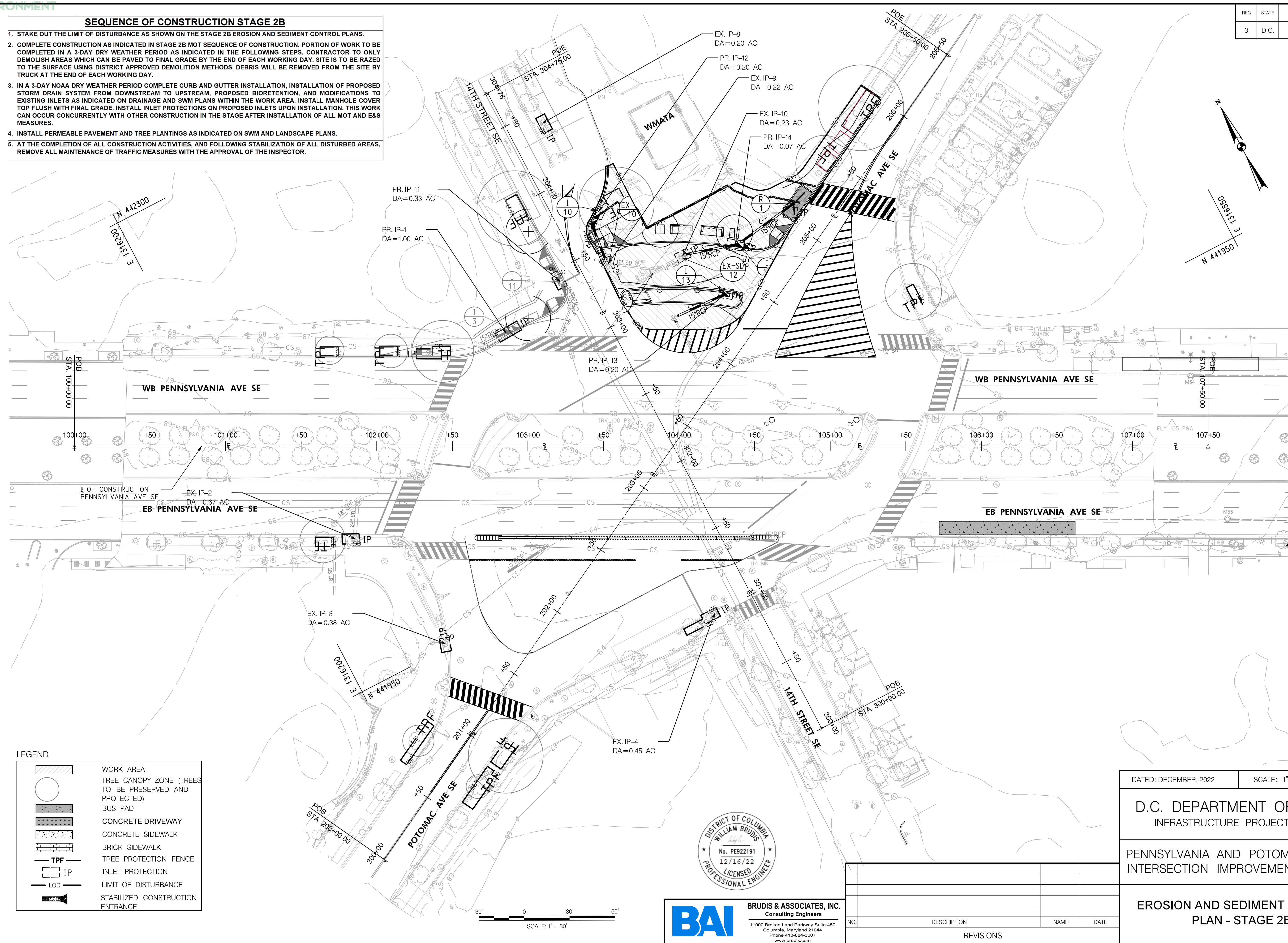
DATED: DECEMBER, 2022	SCALE: 1" = 30'	ES-06
D.C. DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT DIVISION		
PENNSYLVANIA AND POTOMAC AVE SE INTERSECTION IMPROVEMENT PROJECT		PROJECT ENG. <u>MTW/AA</u> DESIGNED BY <u>MTW/AA</u> CHECKED BY <u>MTW/AA</u> DRAWN BY <u>MTW/AA</u> PROJECT MGR. <u>RKL</u>
EROSION AND SEDIMENT CONTROL PLAN - STAGE 2A		DIVISION CHIEF DATE _____ FILE _____
NO. DESCRIPTION NAME DATE		SHEET 153 OF 167

P:\17-005 DDOT AE Schedule\1_Pennsylvania Ave. Potomac Ave Improvements\CADD\Working\DES-P202-Penn Ave & Potomac Ave.dgn
 S:\17-005 December 17, 2022 AT 03:17 PM

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.	FAP NO. STP - 2018 (009)	154	167

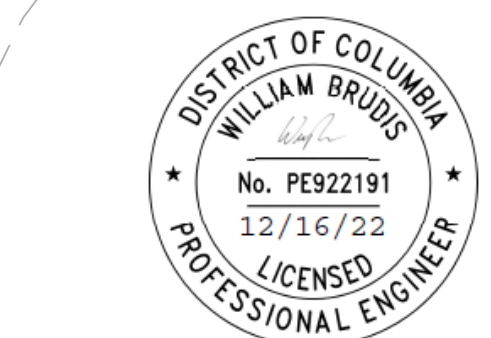
SEQUENCE OF CONSTRUCTION STAGE 2B

1. STAKE OUT THE LIMIT OF DISTURBANCE AS SHOWN ON THE STAGE 2B EROSION AND SEDIMENT CONTROL PLANS.
2. COMPLETE CONSTRUCTION AS INDICATED IN STAGE 2B MOT SEQUENCE OF CONSTRUCTION. PORTION OF WORK TO BE COMPLETED IN A 3-DAY DRY WEATHER PERIOD AS INDICATED IN THE FOLLOWING STEPS. CONTRACTOR TO ONLY DEMOLISH AREAS WHICH CAN BE RAZED TO FINAL GRADE BY THE END OF EACH WORKING DAY. SITE IS TO BE RAZED TO THE SURFACE USING DISTRICT APPROVED DEMOLITION METHODS, DEBRIS WILL BE REMOVED FROM THE SITE BY TRUCK AT THE END OF EACH WORKING DAY.
3. IN A 3-DAY NOAA DRY WEATHER PERIOD COMPLETE CURB AND GUTTER INSTALLATION, INSTALLATION OF PROPOSED STORM DRAIN SYSTEM FROM DOWNSTREAM TO UPSTREAM, PROPOSED BIORETENTION, AND MODIFICATIONS TO EXISTING INLETS AS INDICATED ON DRAINAGE AND SWM PLANS WITHIN THE WORK AREA. INSTALL MANHOLE COVER TOP FLUSH WITH FINAL GRADE. INSTALL INLET PROTECTIONS ON PROPOSED INLETS UPON INSTALLATION. THIS WORK CAN OCCUR CONCURRENTLY WITH OTHER CONSTRUCTION IN THE STAGE AFTER INSTALLATION OF ALL MOT AND E&S MEASURES.
4. INSTALL PERMEABLE PAVEMENT AND TREE PLANTINGS AS INDICATED ON SWM AND LANDSCAPE PLANS.
5. AT THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES, AND FOLLOWING STABILIZATION OF ALL DISTURBED AREAS, REMOVE ALL MAINTENANCE OF TRAFFIC MEASURES WITH THE APPROVAL OF THE INSPECTOR.



LEGEND

	WORK AREA
	TREE CANOPY ZONE (TREES TO BE PRESERVED AND PROTECTED)
	BUS PAD
	CONCRETE DRIVEWAY
	CONCRETE SIDEWALK
	BRICK SIDEWALK
	TREE PROTECTION FENCE
	INLET PROTECTION
	LIMIT OF DISTURBANCE
	STABILIZED CONSTRUCTION ENTRANCE



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DATED: DECEMBER, 2022 SCALE: 1" = 30' **ES-07**

D.C. DEPARTMENT OF TRANSPORTATION
 INFRASTRUCTURE PROJECT MANAGEMENT DIVISION

PENNSYLVANIA AND POTOMAC AVE SE
 INTERSECTION IMPROVEMENT PROJECT

**EROSION AND SEDIMENT CONTROL
 PLAN - STAGE 2B**

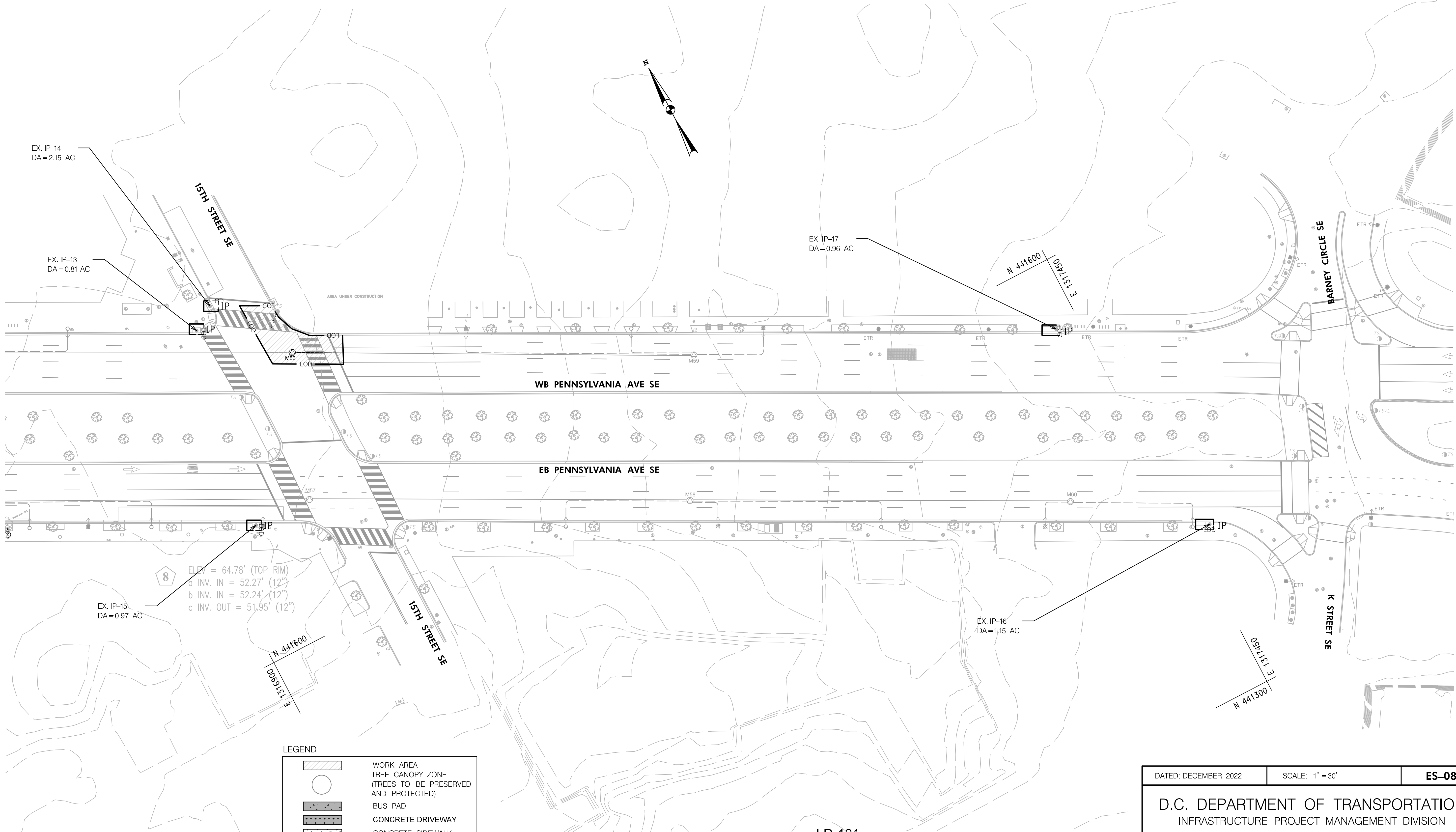
PROJECT ENG. MTW/JA
 DESIGNED BY MTW/JA
 CHECKED BY SA
 DRAWN BY MS
 PROJECT MGR. RKL
 DIVISION CHIEF
 DATE _____
 FILE _____
 SHEET 154 OF 167

NO.	DESCRIPTION	NAME	DATE

P:\17-005 DDOT AE Schedule\1_Pennsylvania Ave. Potomac Ave Improvements\CADD\Working\DES-P203_Penn Ave & Potomac Ave.dgn
 S:\ur\gdy, December 17, 2022 AT 03:18 PM

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.	FAP NO. STP - 2018 (009)	155	167

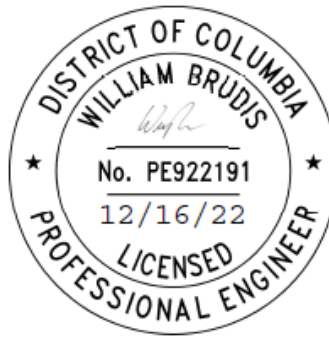
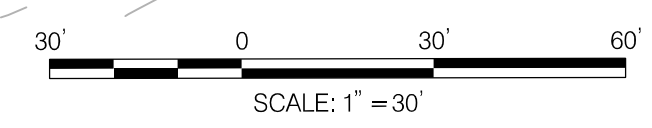
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8
 ELEV = 64.78' (TOP RIM)
 a INV. IN = 52.27' (12")
 b INV. IN = 52.24' (12")
 c INV. OUT = 51.95' (12")

LEGEND

	WORK AREA
	TREE CANOPY ZONE (TREES TO BE PRESERVED AND PROTECTED)
	BUS PAD
	CONCRETE DRIVEWAY
	CONCRETE SIDEWALK
	BRICK SIDEWALK
	TREE PROTECTION FENCE
	INLET PROTECTION
	LIMIT OF DISTURBANCE
	STABILIZED CONSTRUCTION ENTRANCE



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NO.	DESCRIPTION	NAME	DATE

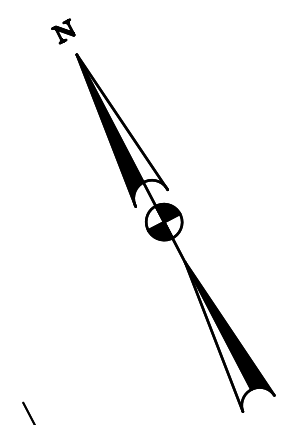
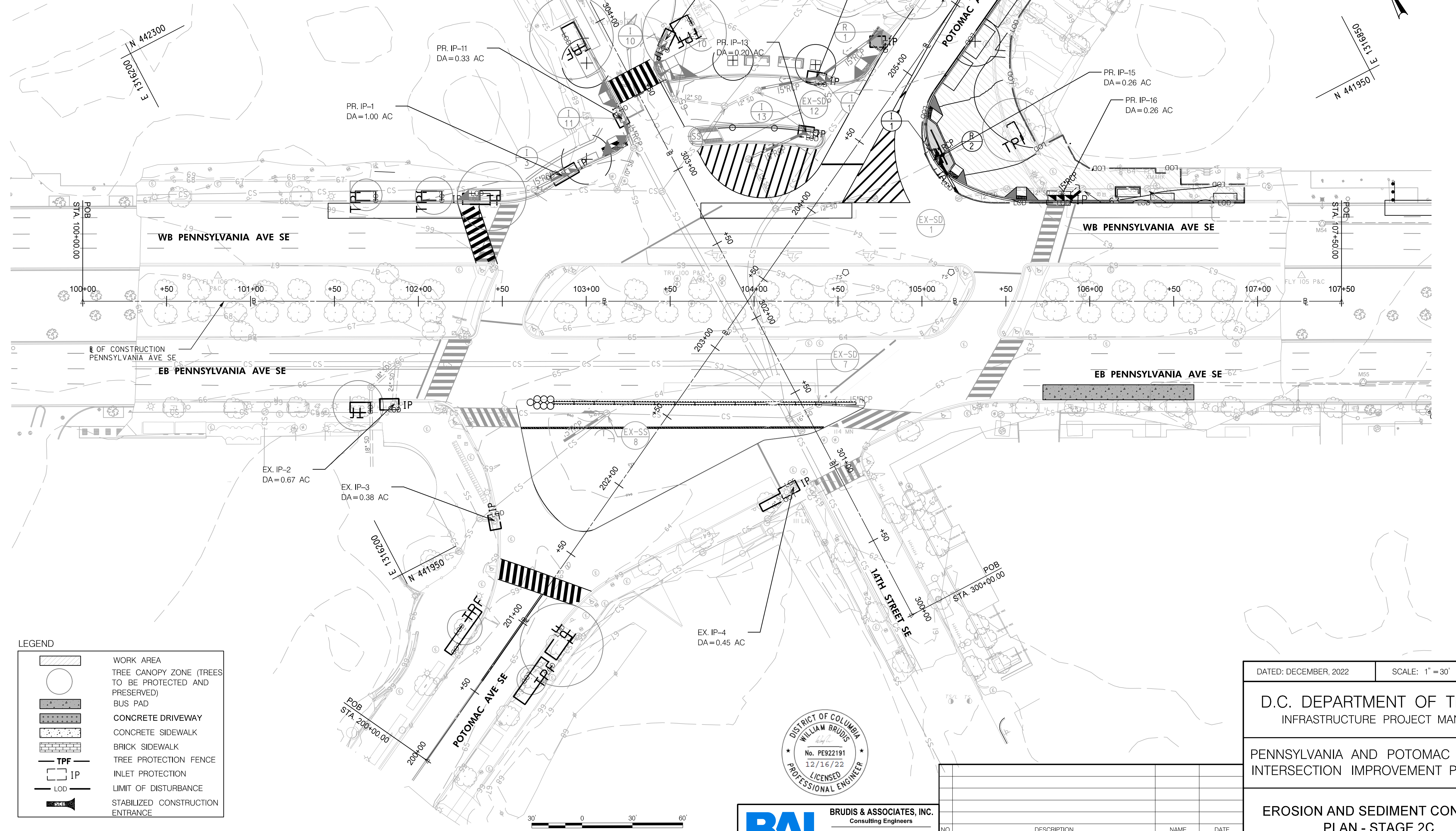
DATED: DECEMBER, 2022	SCALE: 1" = 30'	ES-08
D.C. DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT DIVISION		
PENNSYLVANIA AND POTOMAC AVE SE INTERSECTION IMPROVEMENT PROJECT		PROJECT ENG. <u>MTW/JA</u> DESIGNED BY <u>MTW/JA</u> CHECKED BY <u>SA</u> DRAWN BY <u>MTW</u> PROJECT MGR. <u>RKL</u>
EROSION AND SEDIMENT CONTROL PLAN - STAGE 2B		DIVISION CHIEF DATE _____ FILE _____
SHEET 155 OF 167		

P:\17-005 DDOT AE Schedule\1 Pennsylvania Ave, Potomac Ave Improvements\CADD\Working\DES-P204_Penn Ave & Potomac Ave.dgn
 Saturday, December 17, 2022 AT 03:18 PM

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
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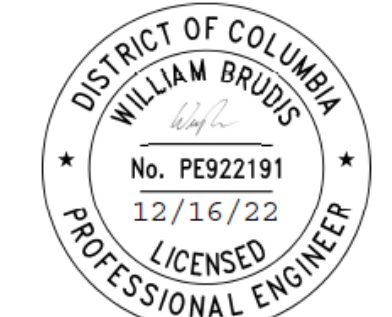
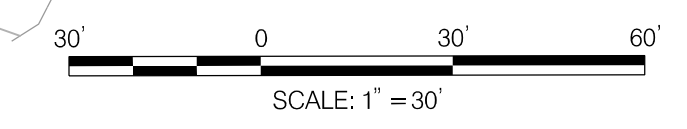
SEQUENCE OF CONSTRUCTION STAGE 2C

1. STAKE OUT THE LIMIT OF DISTURBANCE AS SHOWN ON THE STAGE 2C EROSION AND SEDIMENT CONTROL PLANS.
2. COMPLETE CONSTRUCTION AS INDICATED IN STAGE 2C MOT SEQUENCE OF CONSTRUCTION. PORTION OF WORK TO BE COMPLETED IN A 3-DAY DRY WEATHER PERIOD AS INDICATED IN THE FOLLOWING STEPS. CONTRACTOR TO ONLY DEMOLISH AREAS WHICH CAN BE PAVED TO FINAL GRADE BY THE END OF EACH WORKING DAY. SITE IS TO BE RAZED TO THE SURFACE USING DISTRICT APPROVED DEMOLITION METHODS. DEBRIS WILL BE REMOVED FROM THE SITE BY TRUCK AT THE END OF EACH WORKING DAY.
3. IN A 3-DAY NOAA DRY WEATHER PERIOD COMPLETE CURB AND GUTTER INSTALLATION, INSTALLATION OF PROPOSED STORM DRAIN SYSTEM FROM DOWNSTREAM TO UPSTREAM, PROPOSED BIORETENTION, AND MODIFICATIONS TO EXISTING INLETS AS INDICATED ON DRAINAGE AND SWM PLANS WITHIN THE WORK AREA. INSTALL MANHOLE COVER TOP FLUSH WITH FINAL GRADE. INSTALL INLET I-1, REMOVE PIPE CAP, AND CONNECT WITH 15" RCP TO EX SD-2 INSTALLED IN STAGE 1A. INSTALL INLET PROTECTIONS ON PROPOSED INLETS UPON INSTALLATION. THIS WORK CAN OCCUR CONCURRENTLY WITH OTHER CONSTRUCTION IN THE STAGE AFTER INSTALLATION OF ALL MOT AND E&S MEASURES.
4. INSTALL PERMEABLE PAVEMENT AND TREE PLANTINGS AS INDICATED ON SWM AND LANDSCAPE PLANS.
5. AT THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES, AND FOLLOWING STABILIZATION OF ALL DISTURBED AREAS, REMOVE ALL MAINTENANCE OF TRAFFIC MEASURES WITH THE APPROVAL OF THE INSPECTOR.



LEGEND

	WORK AREA
	TREE CANOPY ZONE (TREES TO BE PROTECTED AND PRESERVED)
	BUS PAD
	CONCRETE DRIVEWAY
	CONCRETE SIDEWALK
	BRICK SIDEWALK
	TREE PROTECTION FENCE
	INLET PROTECTION
	LIMIT OF DISTURBANCE
	STABILIZED CONSTRUCTION ENTRANCE



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DATED: DECEMBER, 2022	SCALE: 1" = 30'	ES-09
D.C. DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT DIVISION		
PENNSYLVANIA AND POTOMAC AVE SE INTERSECTION IMPROVEMENT PROJECT		
EROSION AND SEDIMENT CONTROL PLAN - STAGE 2C		PROJECT ENG. <u>MTW/JA</u> DESIGNED BY <u>MTW/JA</u> CHECKED BY <u>SA</u> DRAWN BY <u>MS</u> PROJECT MGR. <u>RKL</u>
		DIVISION CHIEF
		DATE _____
		FILE _____
		SHEET 156 OF 167

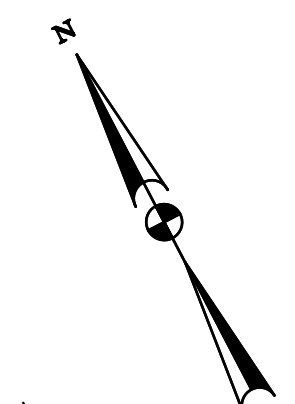
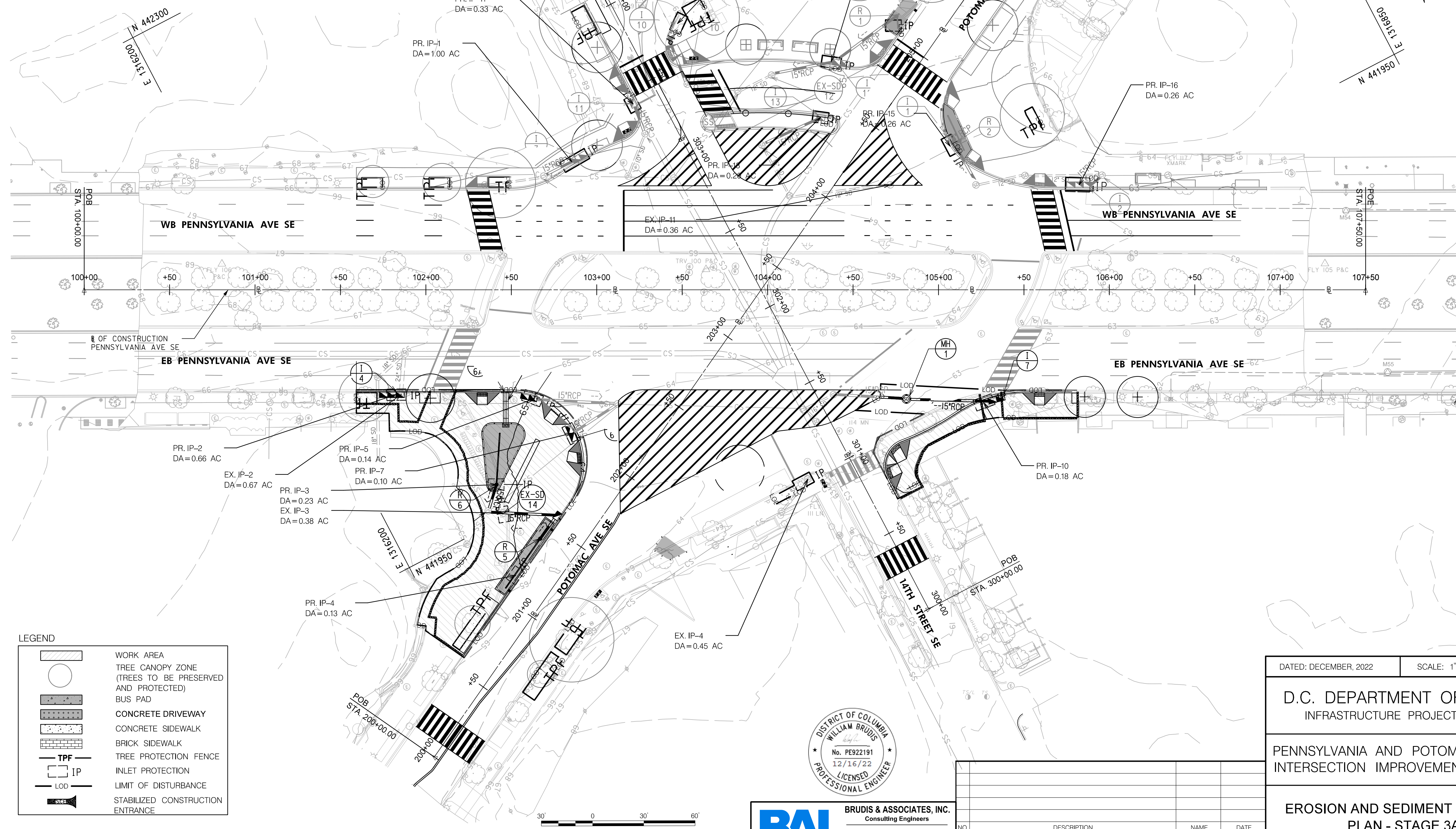
NO.	DESCRIPTION	NAME	DATE

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 S:\ur\gdy, December 17, 2022 AT 03:19 PM

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.	FAP NO. STP - 2018 (009)	157	167

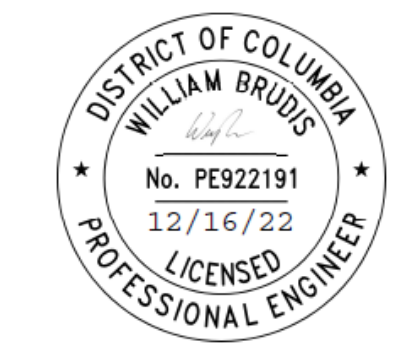
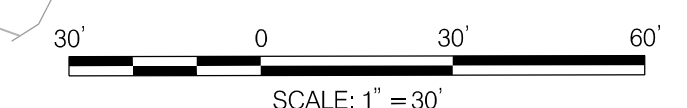
SEQUENCE OF CONSTRUCTION STAGE 3A

1. STAKE OUT THE LIMIT OF DISTURBANCE AS SHOWN ON THE STAGE 3A EROSION AND SEDIMENT CONTROL PLANS.
2. COMPLETE CONSTRUCTION AS INDICATED IN STAGE 3A MOT SEQUENCE OF CONSTRUCTION. PORTION OF WORK TO BE COMPLETED IN A 3-DAY DRY WEATHER PERIOD AS INDICATED IN THE FOLLOWING STEPS. CONTRACTOR TO ONLY DEMOLISH AREAS WHICH CAN BE PAVED TO FINAL GRADE BY THE END OF EACH WORKING DAY. SITE IS TO BE RAZED TO THE SURFACE USING DISTRICT APPROVED DEMOLITION METHODS. DEBRIS WILL BE REMOVED FROM THE SITE BY TRUCK AT THE END OF EACH WORKING DAY.
3. IN A 3-DAY NOAA DRY WEATHER PERIOD COMPLETE CURB AND GUTTER INSTALLATION, INSTALLATION OF PROPOSED STORM DRAIN SYSTEM FROM DOWNSTREAM TO UPSTREAM, PROPOSED BIORETENTION, AND MODIFICATIONS TO EXISTING INLETS AS INDICATED ON DRAINAGE AND SWM PLANS WITHIN THE WORK AREA. INSTALL MANHOLE COVER TOP FLUSH WITH FINAL GRADE. INSTALL INLET I-6B, REMOVE PIPE CAP, AND CONNECT WITH 15" RCP TO EX SS-8 INSTALLED IN STAGE 1A. REMOVE CAP AND CONNECT PROPOSED 15" RCP DOWNSTREAM OF MH-1 WITH PORTION OF 15" RCP INSTALLED IN STAGE 1A. ALL STORM DRAIN INSTALLATION OUTSIDE OF THE WORK AREA TO BE DONE UTILIZING LANE CLOSURE METHODOLOGY SPECIFIED IN STAGE 3A MOT SEQUENCE OF CONSTRUCTION. INSTALL INLET PROTECTIONS ON PROPOSED INLETS UPON INSTALLATION. THIS WORK CAN OCCUR CONCURRENTLY WITH OTHER CONSTRUCTION IN THE STAGE AFTER INSTALLATION OF ALL MOT AND E&S MEASURES.
4. INSTALL PERMEABLE PAVEMENT AND TREE PLANTINGS AS INDICATED ON SWM AND LANDSCAPE PLANS IN THE WORK AREA.
5. AT THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES, AND FOLLOWING STABILIZATION OF ALL DISTURBED AREAS, REMOVE ALL MAINTENANCE OF TRAFFIC MEASURES WITH THE APPROVAL OF THE INSPECTOR.



LEGEND

	WORK AREA
	TREE CANOPY ZONE (TREES TO BE PRESERVED AND PROTECTED)
	BUS PAD
	CONCRETE DRIVEWAY
	CONCRETE SIDEWALK
	BRICK SIDEWALK
	TREE PROTECTION FENCE
	INLET PROTECTION
	LIMIT OF DISTURBANCE
	STABILIZED CONSTRUCTION ENTRANCE



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DATED: DECEMBER, 2022	SCALE: 1" = 30'	ES-10
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D.C. DEPARTMENT OF TRANSPORTATION
 INFRASTRUCTURE PROJECT MANAGEMENT DIVISION

PENNSYLVANIA AND POTOMAC AVE SE
 INTERSECTION IMPROVEMENT PROJECT

**EROSION AND SEDIMENT CONTROL
 PLAN - STAGE 3A**

PROJECT ENG. MTW /JA
 DESIGNED BY MTW /JA
 CHECKED BY SA
 DRAWN BY MS
 PROJECT MGR. RKL

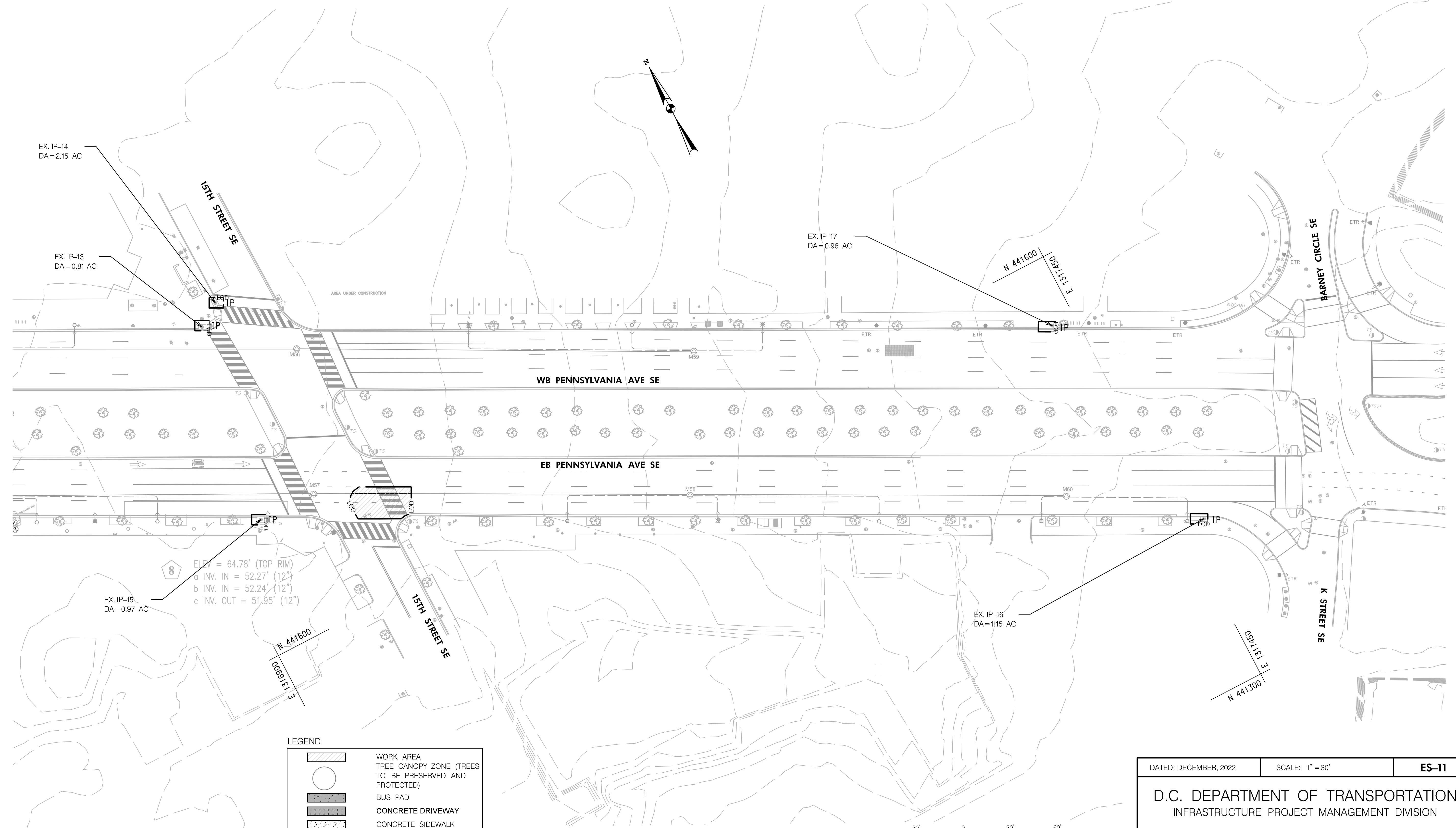
DIVISION CHIEF
 DATE _____
 FILE _____
 SHEET 157 OF 167

NO.	DESCRIPTION	NAME	DATE

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 S:\17-005 December 17, 2022 AT 03:13 PM

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
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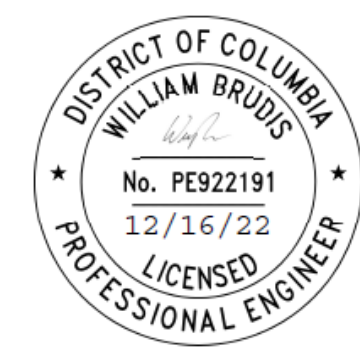
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8
 ELEV. = 64.78' (TOP RIM)
 a INV. IN = 52.27' (12")
 b INV. IN = 52.24' (12")
 c INV. OUT = 51.95' (12")

LEGEND

	WORK AREA
	TREE CANOPY ZONE (TREES TO BE PRESERVED AND PROTECTED)
	BUS PAD
	CONCRETE DRIVEWAY
	CONCRETE SIDEWALK
	BRICK SIDEWALK
	TREE PROTECTION FENCE
	INLET PROTECTION
	LIMIT OF DISTURBANCE
	STABILIZED CONSTRUCTION ENTRANCE



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NO.	DESCRIPTION	NAME	DATE
REVISIONS			

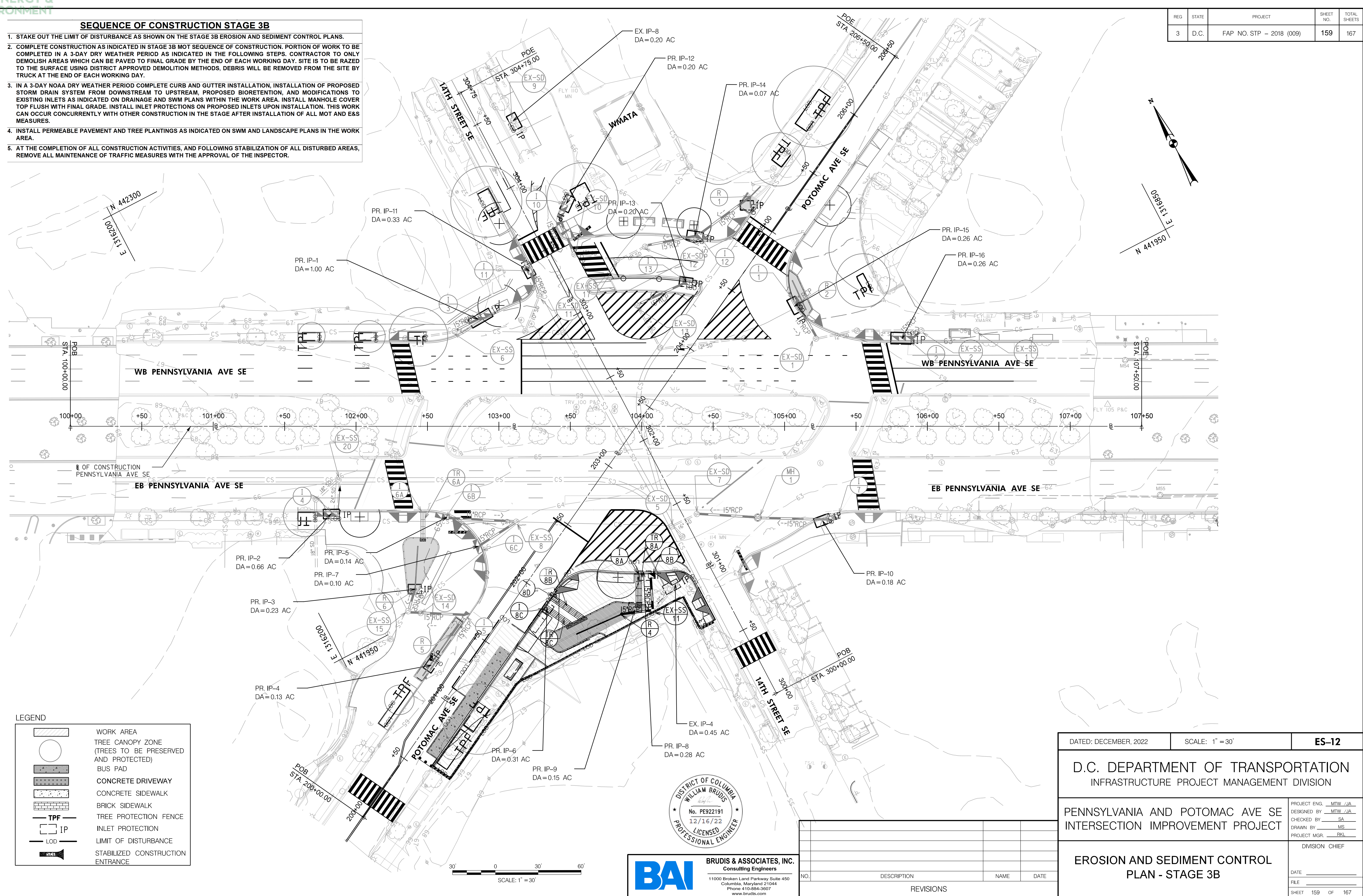
DATED: DECEMBER, 2022	SCALE: 1" = 30'	ES-11
D.C. DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT DIVISION		
PENNSYLVANIA AND POTOMAC AVE SE INTERSECTION IMPROVEMENT PROJECT		PROJECT ENG. <u>MTW /JA</u> DESIGNED BY <u>MTW /JA</u> CHECKED BY <u>SA</u> DRAWN BY <u>MS</u> PROJECT MGR. <u>RKL</u>
EROSION AND SEDIMENT CONTROL PLAN - STAGE 3A		DIVISION CHIEF DATE _____ FILE _____
SHEET 158 OF 167		

P:\17-005 DDOT AE Schedule\1. Pennsylvania Ave. Potomac Ave Improvements\CADD\Working\DES-P302-Penn Ave & Potomac Ave.dgn
 Saturday, December 17, 2022 AT 03:19 PM

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.	FAP NO. STP - 2018 (009)	159	167

SEQUENCE OF CONSTRUCTION STAGE 3B

1. STAKE OUT THE LIMIT OF DISTURBANCE AS SHOWN ON THE STAGE 3B EROSION AND SEDIMENT CONTROL PLANS.
2. COMPLETE CONSTRUCTION AS INDICATED IN STAGE 3B MOT SEQUENCE OF CONSTRUCTION. PORTION OF WORK TO BE COMPLETED IN A 3-DAY DRY WEATHER PERIOD AS INDICATED IN THE FOLLOWING STEPS. CONTRACTOR TO ONLY DEMOLISH AREAS WHICH CAN BE PAVED TO FINAL GRADE BY THE END OF EACH WORKING DAY. SITE IS TO BE RAZED TO THE SURFACE USING DISTRICT APPROVED DEMOLITION METHODS. DEBRIS WILL BE REMOVED FROM THE SITE BY TRUCK AT THE END OF EACH WORKING DAY.
3. IN A 3-DAY NOAA DRY WEATHER PERIOD COMPLETE CURB AND GUTTER INSTALLATION, INSTALLATION OF PROPOSED STORM DRAIN SYSTEM FROM DOWNSTREAM TO UPSTREAM, PROPOSED BIORETENTION, AND MODIFICATIONS TO EXISTING INLETS AS INDICATED ON DRAINAGE AND SWM PLANS WITHIN THE WORK AREA. INSTALL MANHOLE COVER TOP FLUSH WITH FINAL GRADE. INSTALL INLET PROTECTIONS ON PROPOSED INLETS UPON INSTALLATION. THIS WORK CAN OCCUR CONCURRENTLY WITH OTHER CONSTRUCTION IN THE STAGE AFTER INSTALLATION OF ALL MOT AND E&S MEASURES.
4. INSTALL PERMEABLE PAVEMENT AND TREE PLANTINGS AS INDICATED ON SWM AND LANDSCAPE PLANS IN THE WORK AREA.
5. AT THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES, AND FOLLOWING STABILIZATION OF ALL DISTURBED AREAS, REMOVE ALL MAINTENANCE OF TRAFFIC MEASURES WITH THE APPROVAL OF THE INSPECTOR.



P:\17-005 DDOT AE Schedule\1. Pennsylvania Ave. Potomac Ave Improvements\CADD\Working\DES-P303-Penn Ave & Potomac Ave.dgn
S:\17-005\17-005.dwg, December 17, 2022 AT 03:20 PM

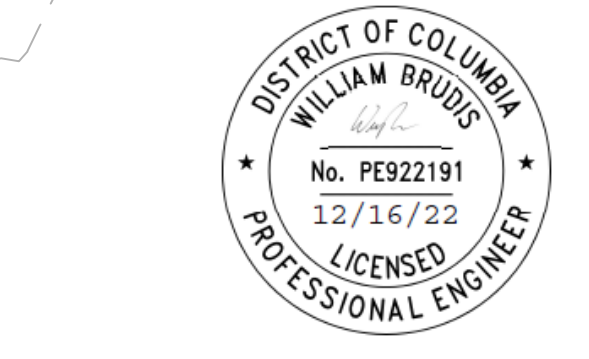
DATED: DECEMBER, 2022 SCALE: 1" = 30' **ES-12**

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT DIVISION

PENNSYLVANIA AND POTOMAC AVE SE
INTERSECTION IMPROVEMENT PROJECT

**EROSION AND SEDIMENT CONTROL
PLAN - STAGE 3B**

PROJECT ENG. MTW/JIA
DESIGNED BY MTW/JIA
CHECKED BY SA
DRAWN BY MS
PROJECT MGR. RKL
DIVISION CHIEF
DATE _____
FILE _____
SHEET 159 OF 167

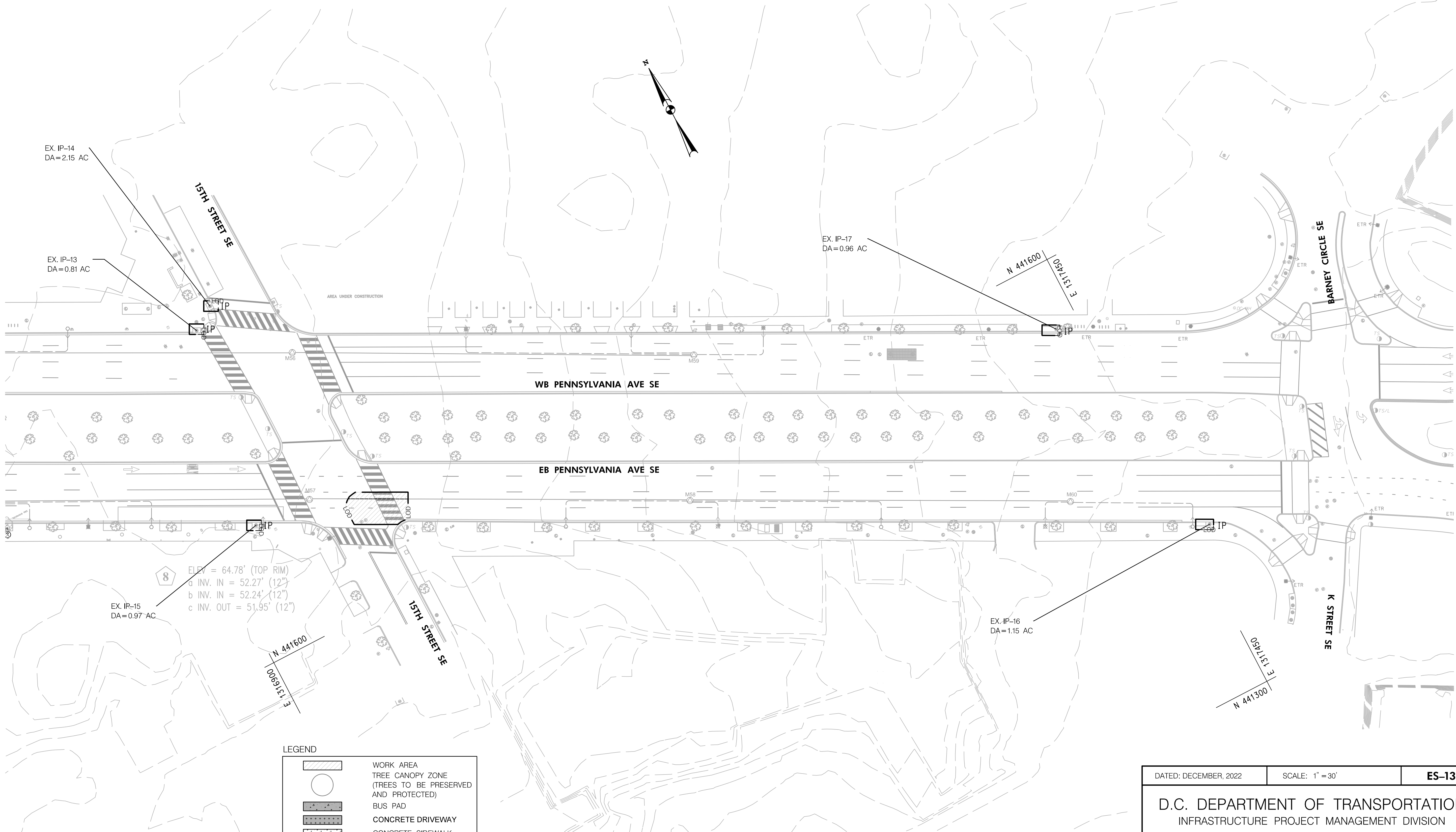


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NO.	DESCRIPTION	NAME	DATE

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.	FAP NO. STP - 2018 (009)	160	167

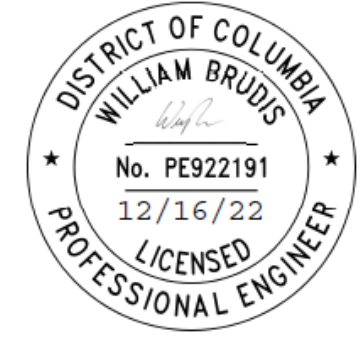
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8
 ELEV = 64.78' (TOP RIM)
 a INV. IN = 52.27' (12")
 b INV. IN = 52.24' (12")
 c INV. OUT = 51.95' (12")

LEGEND

	WORK AREA
	TREE CANOPY ZONE (TREES TO BE PRESERVED AND PROTECTED)
	BUS PAD
	CONCRETE DRIVEWAY
	CONCRETE SIDEWALK
	BRICK SIDEWALK
	TREE PROTECTION FENCE
	INLET PROTECTION
	LIMIT OF DISTURBANCE
	STABILIZED CONSTRUCTION ENTRANCE



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NO.	DESCRIPTION	NAME	DATE
REVISIONS			

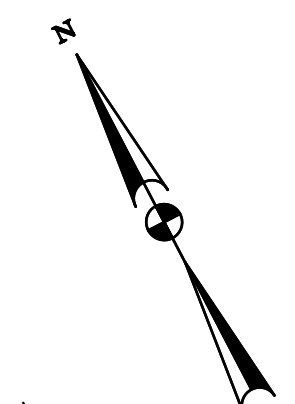
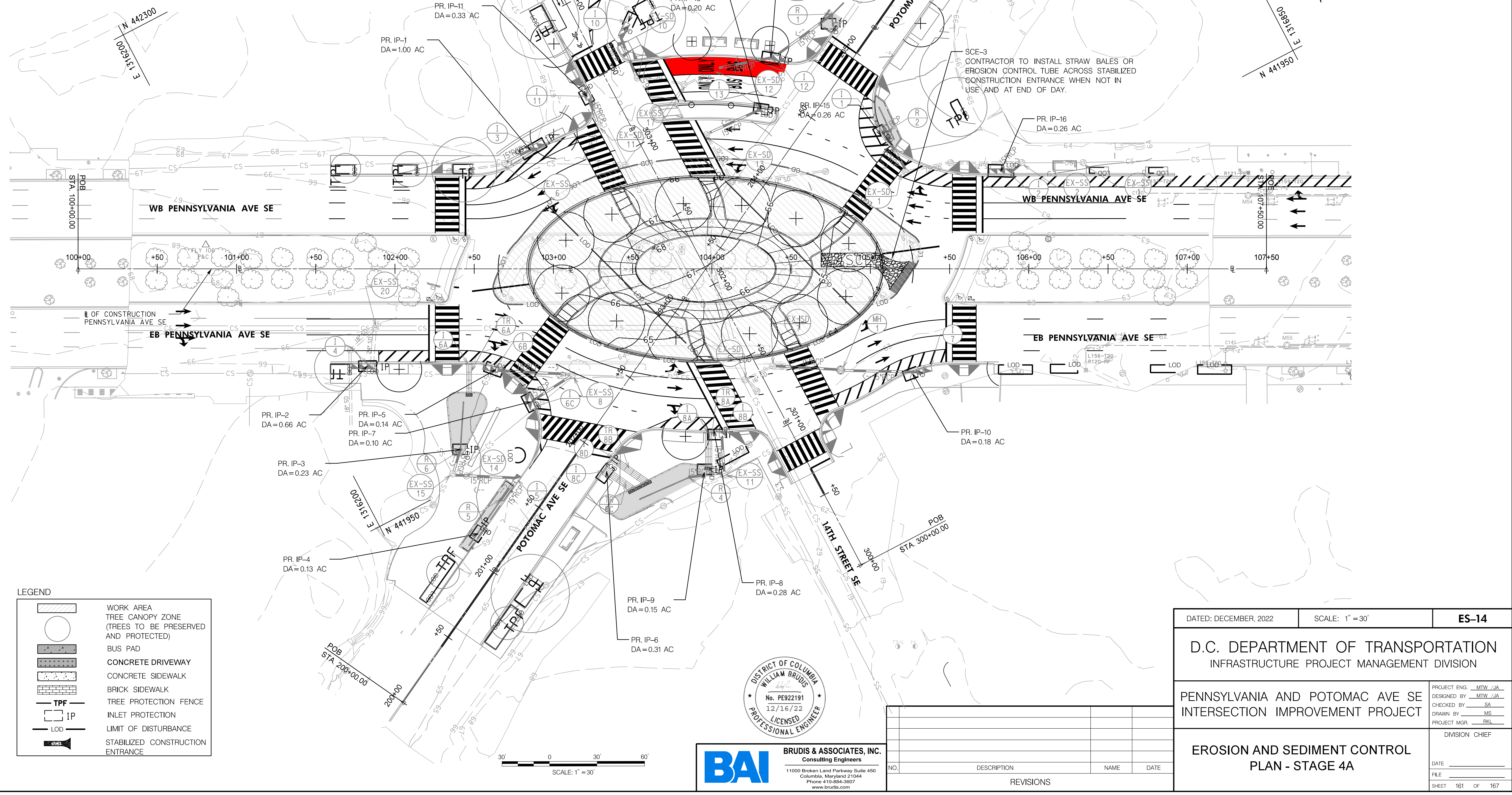
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D.C. DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT DIVISION		
PENNSYLVANIA AND POTOMAC AVE SE INTERSECTION IMPROVEMENT PROJECT		PROJECT ENG. <u>MTW /JA</u> DESIGNED BY <u>MTW /JA</u> CHECKED BY <u>SA</u> DRAWN BY <u>MTW</u> PROJECT MGR. <u>RKL</u>
EROSION AND SEDIMENT CONTROL PLAN - STAGE 3B		DIVISION CHIEF DATE _____ FILE _____
SHEET 160 OF 167		

P:\17-005 DDOT AE Schedule\1. Pennsylvania Ave. Potomac Ave Improvements\CADD\Working\DES-P304_Penn Ave & Potomac Ave.dgn
 S:\ur\ggg, December 17, 2022 AT 03:20 PM

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
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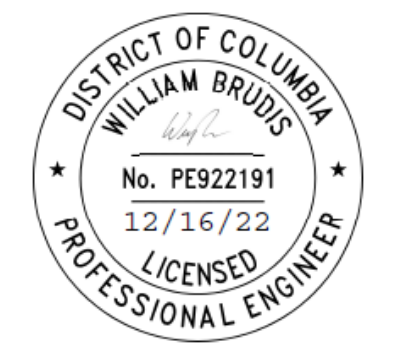
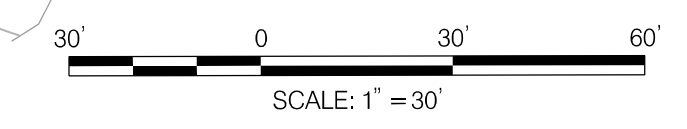
SEQUENCE OF CONSTRUCTION STAGE 4A

1. STAKE OUT THE LIMIT OF DISTURBANCE AS SHOWN ON THE STAGE 4A EROSION AND SEDIMENT CONTROL PLANS. CLEAR AND GRUB AREAS AS REQUIRED FOR INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES ONLY. INSTALL STABILIZED CONSTRUCTION ENTRANCE.
2. COMPLETE CONSTRUCTION AS INDICATED IN STAGE 4A MOT SEQUENCE OF CONSTRUCTION. PORTION OF WORK TO BE COMPLETED IN A 3-DAY DRY WEATHER PERIOD AS INDICATED IN THE FOLLOWING STEPS. CONTRACTOR TO ONLY DEMOLISH AREAS WHICH CAN BE PAVED TO FINAL GRADE BY THE END OF EACH WORKING DAY. SITE IS TO BE RAZED TO THE SURFACE USING DISTRICT APPROVED DEMOLITION METHODS. DEBRIS WILL BE REMOVED FROM THE SITE BY TRUCK AT THE END OF EACH WORKING DAY.
3. IN A 3-DAY NOAA DRY WEATHER PERIOD COMPLETE CURB AND GUTTER INSTALLATION, INSTALLATION OF PROPOSED STORM DRAIN SYSTEM FROM DOWNSTREAM TO UPSTREAM, PROPOSED BIORETENTION, AND MODIFICATIONS TO EXISTING INLETS AS INDICATED ON DRAINAGE AND SWM PLANS WITHIN THE WORK AREA. INSTALL MANHOLE COVER TOP FLUSH WITH FINAL GRADE. INSTALL INLET PROTECTIONS ON PROPOSED INLETS UPON INSTALLATION. THIS WORK CAN OCCUR CONCURRENTLY WITH OTHER CONSTRUCTION IN THE STAGE AFTER INSTALLATION OF ALL MOT AND E&S MEASURES.
4. INSTALL PERMEABLE PAVEMENT AND TREE PLANTINGS AS INDICATED ON SWM AND LANDSCAPE PLANS IN THE WORK AREA.
5. AT THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES, AND FOLLOWING STABILIZATION OF ALL DISTURBED AREAS, REMOVE ALL MAINTENANCE OF TRAFFIC MEASURES AND STABILIZED CONSTRUCTION ENTRANCE WITH THE APPROVAL OF THE INSPECTOR.



LEGEND

	WORK AREA
	TREE CANOPY ZONE (TREES TO BE PRESERVED AND PROTECTED)
	BUS PAD
	CONCRETE DRIVEWAY
	CONCRETE SIDEWALK
	BRICK SIDEWALK
	TREE PROTECTION FENCE
	INLET PROTECTION
	LIMIT OF DISTURBANCE
	STABILIZED CONSTRUCTION ENTRANCE



BAI BRUDIS & ASSOCIATES, INC.
 Consulting Engineers
 11000 Broken Land Parkway Suite 450
 Columbia, Maryland 21044
 Phone 410-884-3607
 www.brudis.com

DATED: DECEMBER, 2022	SCALE: 1" = 30'	ES-14
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D.C. DEPARTMENT OF TRANSPORTATION
 INFRASTRUCTURE PROJECT MANAGEMENT DIVISION

PENNSYLVANIA AND POTOMAC AVE SE
 INTERSECTION IMPROVEMENT PROJECT

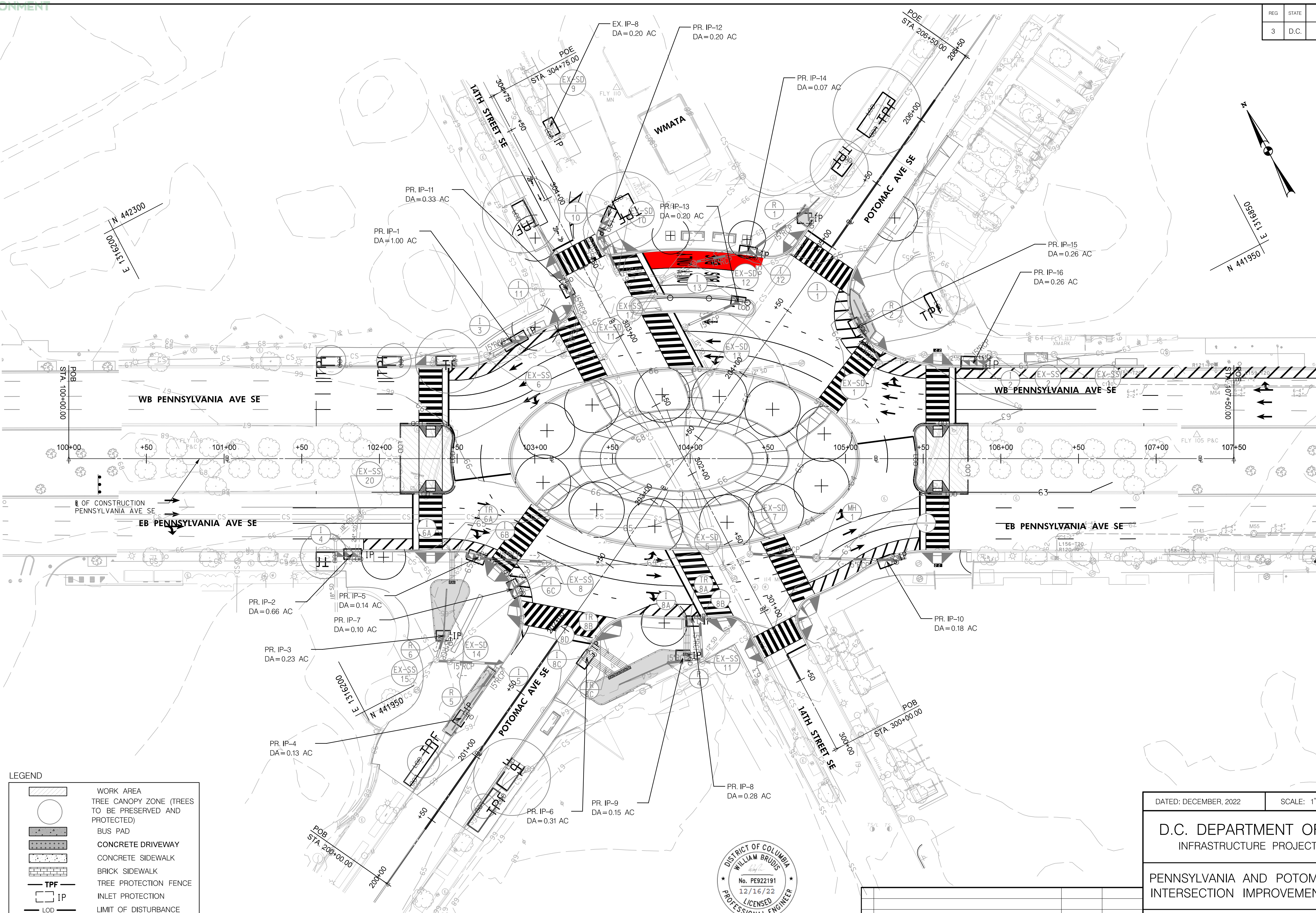
**EROSION AND SEDIMENT CONTROL
 PLAN - STAGE 4A**

PROJECT ENG. <u>MTW /JA</u>
DESIGNED BY <u>MTW /JA</u>
CHECKED BY <u>SA</u>
DRAWN BY <u>MS</u>
PROJECT MGR. <u>RKL</u>
DIVISION CHIEF
DATE _____
FILE _____
SHEET 161 OF 167

NO.	DESCRIPTION	NAME	DATE
REVISIONS			

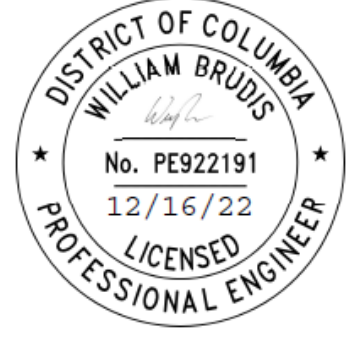
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REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.	FAP NO. STP - 2018 (009)	162	167



LEGEND

	WORK AREA
	TREE CANOPY ZONE (TREES TO BE PRESERVED AND PROTECTED)
	BUS PAD
	CONCRETE DRIVEWAY
	CONCRETE SIDEWALK
	BRICK SIDEWALK
	TREE PROTECTION FENCE
	INLET PROTECTION
	LIMIT OF DISTURBANCE
	STABILIZED CONSTRUCTION ENTRANCE



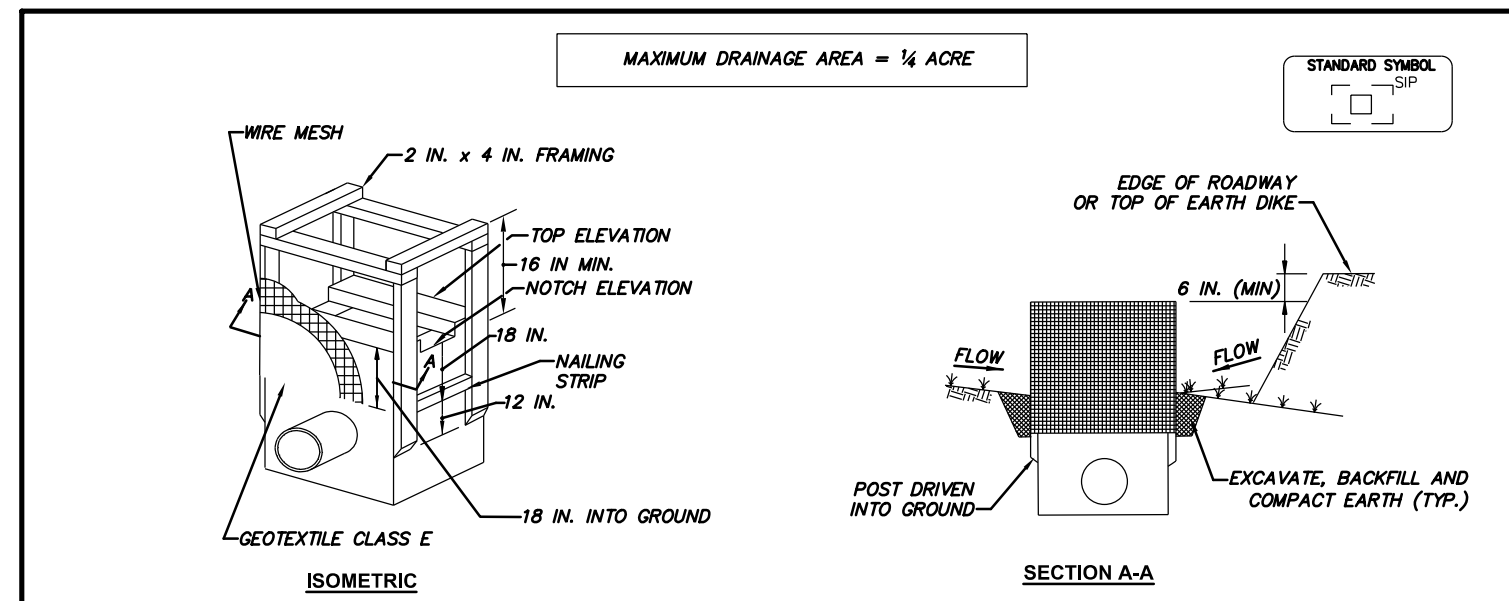
BAI BRUDIS & ASSOCIATES, INC.
 Consulting Engineers
 11000 Broken Land Parkway Suite 450
 Columbia, Maryland 21044
 Phone 410-884-3607
 www.brudis.com

DATED: DECEMBER, 2022	SCALE: 1" = 30'	ES-15
D.C. DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT DIVISION		
PENNSYLVANIA AND POTOMAC AVE SE INTERSECTION IMPROVEMENT PROJECT		
EROSION AND SEDIMENT CONTROL PLAN - STAGE 4B		DIVISION CHIEF
DATE _____		FILE _____
SHEET 162 OF 167		

NO.	DESCRIPTION	NAME	DATE

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REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.	FAP NO. STP - 2018 (009)	163	167



CONSTRUCTION SPECIFICATIONS

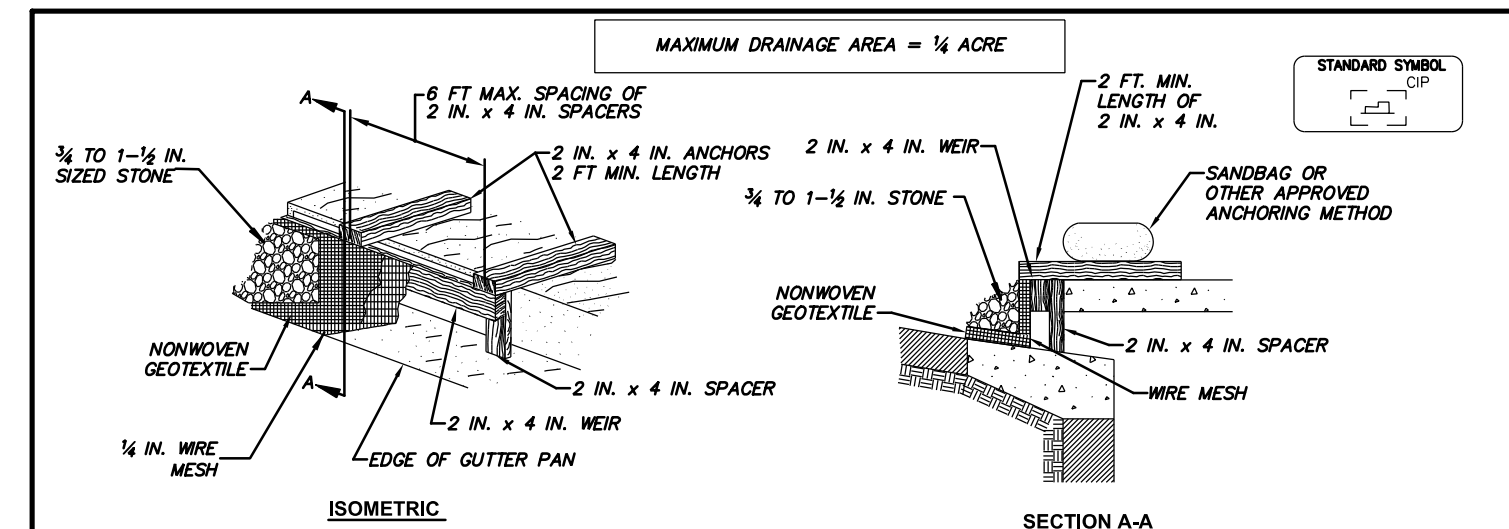
- EXCAVATE COMPLETELY AROUND THE INLET TO A DEPTH OF 18 INCHES BELOW THE NOTCH ELEVATION.
- DRIVE 2-INCH x 4-INCH CONSTRUCTION GRADE LUMBER POSTS 1 FOOT INTO THE GROUND AT EACH CORNER OF THE INLET. PLACE NAIL STRIPS BETWEEN THE POSTS ON THE ENDS OF THE INLET. ASSEMBLE THE TOP PORTION OF THE 2-INCH x 4-INCH FRAME USING THE OVERLAP JOINT SHOWN ON DETAIL 307.1. THE TOP OF THE FRAME (WEIR) MUST BE 6 INCHES BELOW ADJACENT ROADWAYS WHERE FLOODING AND SAFETY ISSUES MAY ARISE.
- STRETCH 1/2-INCH x 1/2-INCH WIRE MESH TIGHTLY AROUND THE FRAME AND FASTEN SECURELY. THE ENDS MUST MEET AND OVERLAP AT A POST.
- STRETCH THE GEOTEXTILE CLASS E TIGHTLY OVER THE WIRE MESH WITH THE GEOTEXTILE EXTENDING FROM THE TOP OF THE FRAME TO 18 INCHES BELOW THE INLET NOTCH ELEVATION. FASTEN THE GEOTEXTILE FIRMLY TO THE FRAME. THE ENDS OF THE GEOTEXTILE MUST MEET AT A POST, BE OVERLAPPED AND FOLDED, THEN FASTENED DOWN.
- BACKFILL AROUND THE INLET IN COMPACTED 6-INCH LAYERS UNTIL THE LAYER OF EARTH IS LEVEL WITH THE NOTCH ELEVATION ON THE ENDS AND TOP ELEVATION ON THE SIDES.
- IF THE INLET IS NOT IN A SUMP, CONSTRUCT A COMPACTED EARTH DIKE ACROSS THE DITCH LINE DIRECTLY BELOW IT. THE TOP OF THE EARTH DIKE SHOULD BE AT LEAST 6 INCHES HIGHER THAN THE TOP OF THE FRAME.
- THE STRUCTURE MUST BE INSPECTED PERIODICALLY AND AFTER EACH RAIN AND THE GEOTEXTILE REPLACED WHEN IT BECOMES CLOGGED.

DATE	APPR.	
REVISION		
ISSUED	REFERENCE	

**STANDARD INLET PROTECTION
STORM DRAIN INLET PROTECTION**

DISTRICT OF COLUMBIA
DEPARTMENT OF ENERGY & ENVIRONMENT
DWG. NO 307.1

SOURCE: 2011 MARYLAND STANDARDS AND SPECIFICATIONS



CONSTRUCTION SPECIFICATIONS

- ATTACH A CONTINUOUS PIECE OF 1/2 INCH x 1/2 INCH WIRE MESH, (30 INCHES MINIMUM WIDTH BY THROAT LENGTH, PLUS 4 FEET) TO THE 2-INCH x 4-INCH WEIR (MEASURING THROAT LENGTH PLUS 2 FEET) AS SHOWN ON THE STANDARD DRAWING.
- PLACE A CONTINUOUS PIECE OF GEOTEXTILE CLASS E OF THE SAME DIMENSIONS AS THE WIRE MESH AND SECURELY ATTACH TO THE 2-INCH x 4-INCH WEIR.
- SECURELY NAIL THE 2-INCH x 4-INCH WEIR TO A 9-INCH LONG VERTICAL SPACER TO BE LOCATED BETWEEN THE WEIR AND THE INLET FACE (MAXIMUM 4 FEET APART).
- PLACE THE ASSEMBLY AGAINST THE INLET THROAT AND NAIL (MINIMUM 2-FOOT LENGTHS OF 2-INCHES x 4-INCHES TO THE TOP OF THE WEIR AT SPACER LOCATIONS). EXTEND THESE 2-INCH x 4-INCH ANCHORS ACROSS THE INLET TOP AND BE HELD IN PLACE BY SANDBAGS OR ALTERNATE WEIGHT.
- PLACE THE ASSEMBLY SO THAT THE END SPACERS ARE 1 FOOT BEYOND BOTH ENDS OF THE THROAT OPENING.
- FORM THE 1/2-INCH x 1/2-INCH WIRE MESH AND THE GEOTEXTILE FABRIC TO THE CONCRETE GUTTER AND AGAINST THE FACE OF THE CURB ON BOTH SIDES OF THE INLET. PLACE CLEAN 3/4 TO 1-1/2 INCH STONE OVER THE WIRE MESH AND GEOTEXTILE IN SUCH A MANNER AS TO PREVENT WATER FROM ENTERING THE INLET UNDER OR AROUND THE GEOTEXTILE.
- THIS TYPE OF PROTECTION MUST BE INSPECTED FREQUENTLY AND THE GEOTEXTILE FABRIC AND STONE REPLACED WHEN CLOGGED WITH SEDIMENT.
- ASSURE THAT STORM FLOWS DO NOT BYPASS THE INLET BY INSTALLING A TEMPORARY EARTH OR ASPHALT DIKE TO DIRECT THE FLOW TO THE INLET.
- IF THERE ARE ANY SIGNS OF STREET FLOODING OR WATER PONDING, THIS STRUCTURE MUST BE CLEANED OR REPLACED, OR REDESIGNED WITH A VIABLE ALTERNATIVE SUCH AS 3.3 FILTER SOCK.

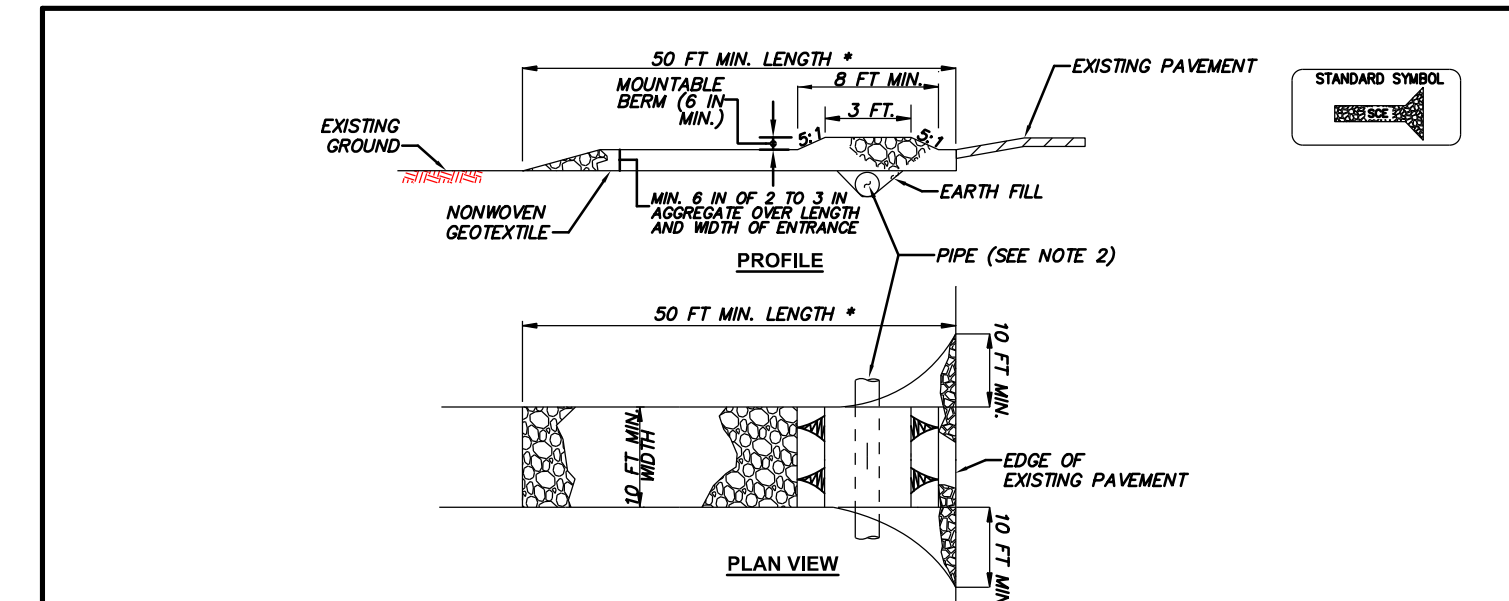
NOTE: FILTER SOCK IS AN ALTERNATIVE WHICH IS EASIER TO INSTALL AND MAINTAIN THAN THIS STANDARD DESIGN.

DATE	APPR.	
REVISION		
ISSUED	REFERENCE	

**CURB INLET PROTECTION
STORM DRAIN INLET PROTECTION**

DISTRICT OF COLUMBIA
DEPARTMENT OF ENERGY & ENVIRONMENT
DWG. NO 307.3

SOURCE: 2011 MARYLAND STANDARDS AND SPECIFICATIONS



CONSTRUCTION SPECIFICATIONS

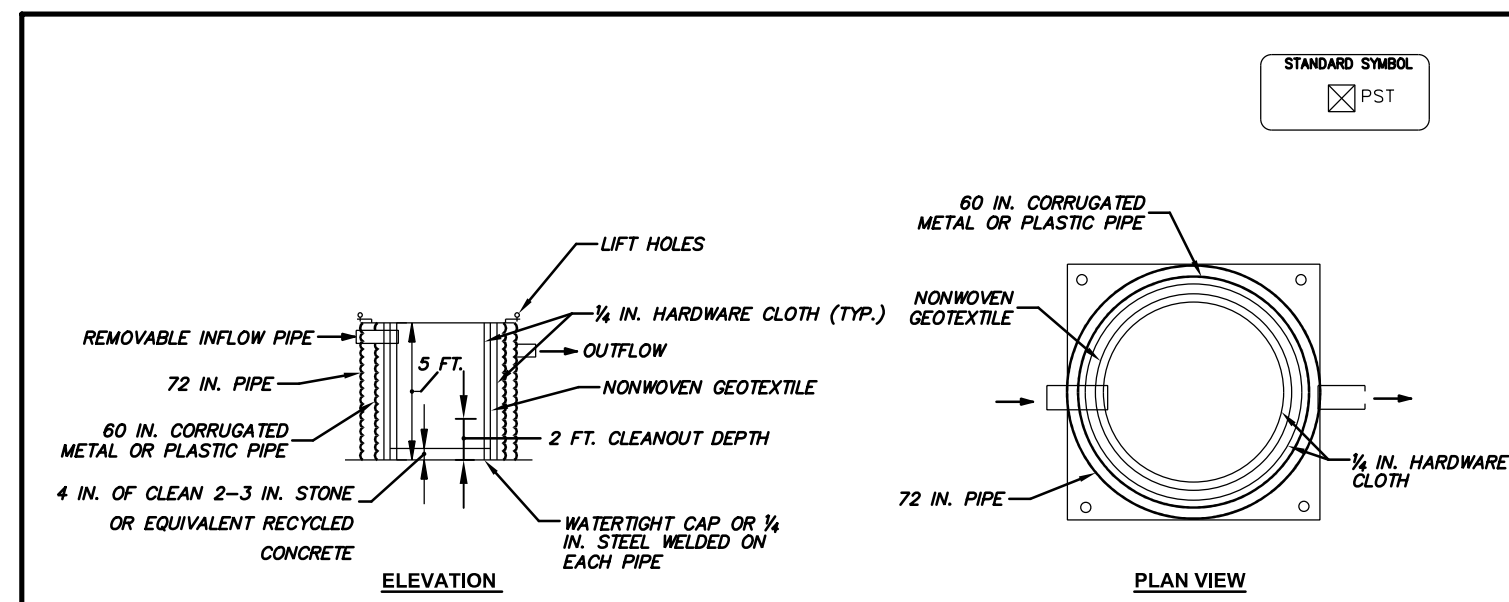
- PLACE THE STABILIZED CONSTRUCTION ENTRANCE IN ACCORDANCE WITH THE APPROVED PLAN. VEHICLES MUST TRAVEL OVER THE ENTIRE LENGTH OF THE SCE. USE A MINIMUM LENGTH OF 50 FEET (40 FEET FOR SINGLE-FAMILY RESIDENCE LOT) AND A MINIMUM WIDTH OF 10 FEET. FLARE THE SCE AT THE EXISTING ROAD TO PROVIDE A TURNING RADIUS.
- PIPE ALL SURFACE WATER FLOWING TO OR DIVERTED TOWARD THE SCE UNDER THE ENTRANCE MAINTAINING POSITIVE DRAINAGE. PROVIDE PIPE AS SPECIFIED ON APPROVED PLAN. PROVIDE PIPE INSTALLED THROUGH THE SCE WITH A MOUNTABLE BERM WITH 5:1 SLOPES AND A MINIMUM OF 12 INCHES OF STONE OVER THE PIPE. WHEN THE SCE IS LOCATED AT A HIGH SPOT AND HAS NO DRAINAGE TO CONVEY, A PIPE IS NOT NECESSARY. A MOUNTABLE BERM IS REQUIRED WHEN THE SCE IS NOT LOCATED AT A HIGH SPOT.
- PREPARE SUBGRADE AND PLACE NONWOVEN GEOTEXTILE.
- PLACE CRUSHED AGGREGATE (2 TO 3 INCHES IN SIZE) OR EQUIVALENT RECYCLED CONCRETE (WITHOUT REBAR) AT LEAST 6 INCHES DEEP OVER THE LENGTH AND WIDTH OF THE SCE.
- MAINTAIN ENTRANCE IN A CONDITION THAT MINIMIZES TRACKING OF SEDIMENT. ADD STONE OR MAKE OTHER REPAIRS AS CONDITIONS DEMAND TO MAINTAIN CLEAN SURFACE, MOUNTABLE BERM, AND SPECIFIED DIMENSIONS. IMMEDIATELY REMOVE STONE AND/OR SEDIMENT SPILLED, DROPPED, OR TRACKED ONTO ADJACENT ROADWAY BY VACUUMING, SCRAPING, AND/OR SWEEPING. WASHING ROADWAY TO REMOVE MUD TRACKED ONTO PAVEMENT IS NOT ACCEPTABLE UNLESS WASH WATER IS DIRECTED TO AN APPROVED SEDIMENT CONTROL PRACTICE.

DATE	APPR.	
REVISION		
ISSUED	REFERENCE	

STABILIZED CONSTRUCTION ENTRANCE

DISTRICT OF COLUMBIA
DEPARTMENT OF ENERGY & ENVIRONMENT
DWG. NO 201.1

SOURCE: 2011 MARYLAND STANDARDS AND SPECIFICATIONS



CONSTRUCTION SPECIFICATIONS

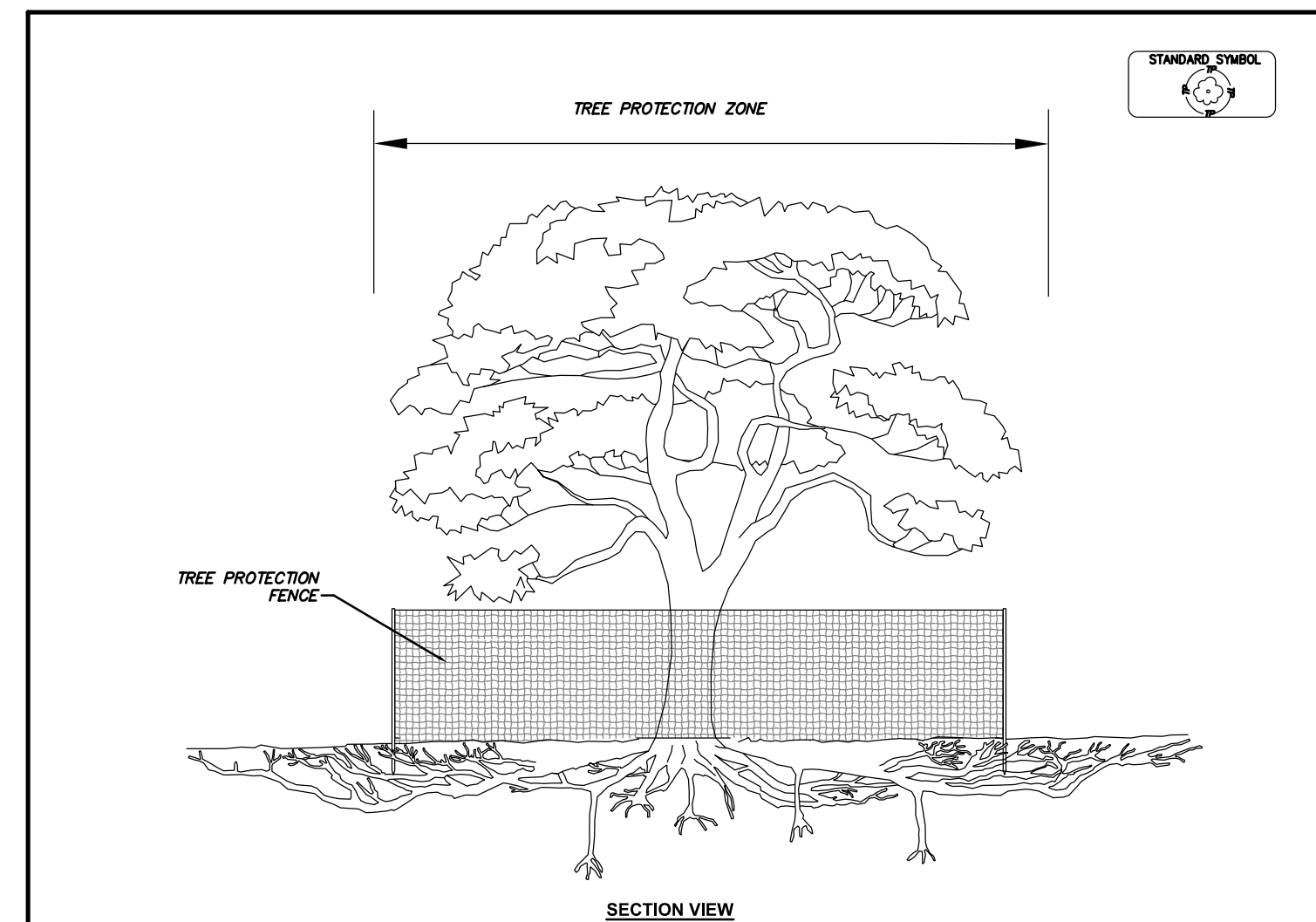
- USE 60 INCH CORRUGATED METAL OR PLASTIC PIPE WITH 1 INCH DIAMETER PERFORATIONS, 6 INCHES ON CENTER FOR THE INNER PIPE. LINE PIPE WITH NONWOVEN GEOTEXTILE SANDWICHED BETWEEN, AND ATTACHED TO, 1/4 INCH HARDWARE CLOTH.
- OVERLAP GEOTEXTILE 8 INCHES MINIMUM AT VERTICAL SEAM AND AT THE BOTTOM PLATE.
- ANCHOR GEOTEXTILE AT BOTTOM OF TANK WITH 4 INCHES OF 2 TO 3 INCH CLEAN STONE OR EQUIVALENT RECYCLED CONCRETE.
- USE 72 INCH CORRUGATED METAL OR PLASTIC OUTER PIPE WITH PERMANENT OUTFLOW PIPE WITH INVERT LOWER THAN INFLOW PIPE.
- INFLOW PIPE MUST DISCHARGE INTO INNER PIPE AND BE REMOVABLE.
- PLACE TANK ON LEVEL SURFACE AND DISCHARGE TO A STABLE AREA AT A NON-EROSIVE RATE.

DATE	APPR.	
REVISION		
ISSUED	REFERENCE	

**PORTABLE SEDIMENT TANK - 2
(VERTICAL)**

DISTRICT OF COLUMBIA
DEPARTMENT OF ENERGY & ENVIRONMENT
DWG. NO 703.2

SOURCE: 2011 MARYLAND STANDARDS AND SPECIFICATIONS



DATE	APPR.	
REVISION		
ISSUED	REFERENCE	

TREE PROTECTION

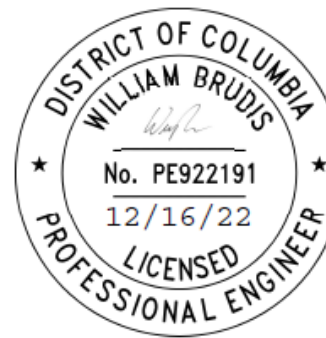
DISTRICT OF COLUMBIA
DEPARTMENT OF ENERGY & ENVIRONMENT
DWG. NO 903.1

SOURCE: URBAN TREE FOUNDATION 2014

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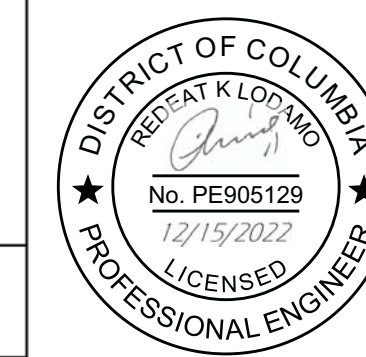
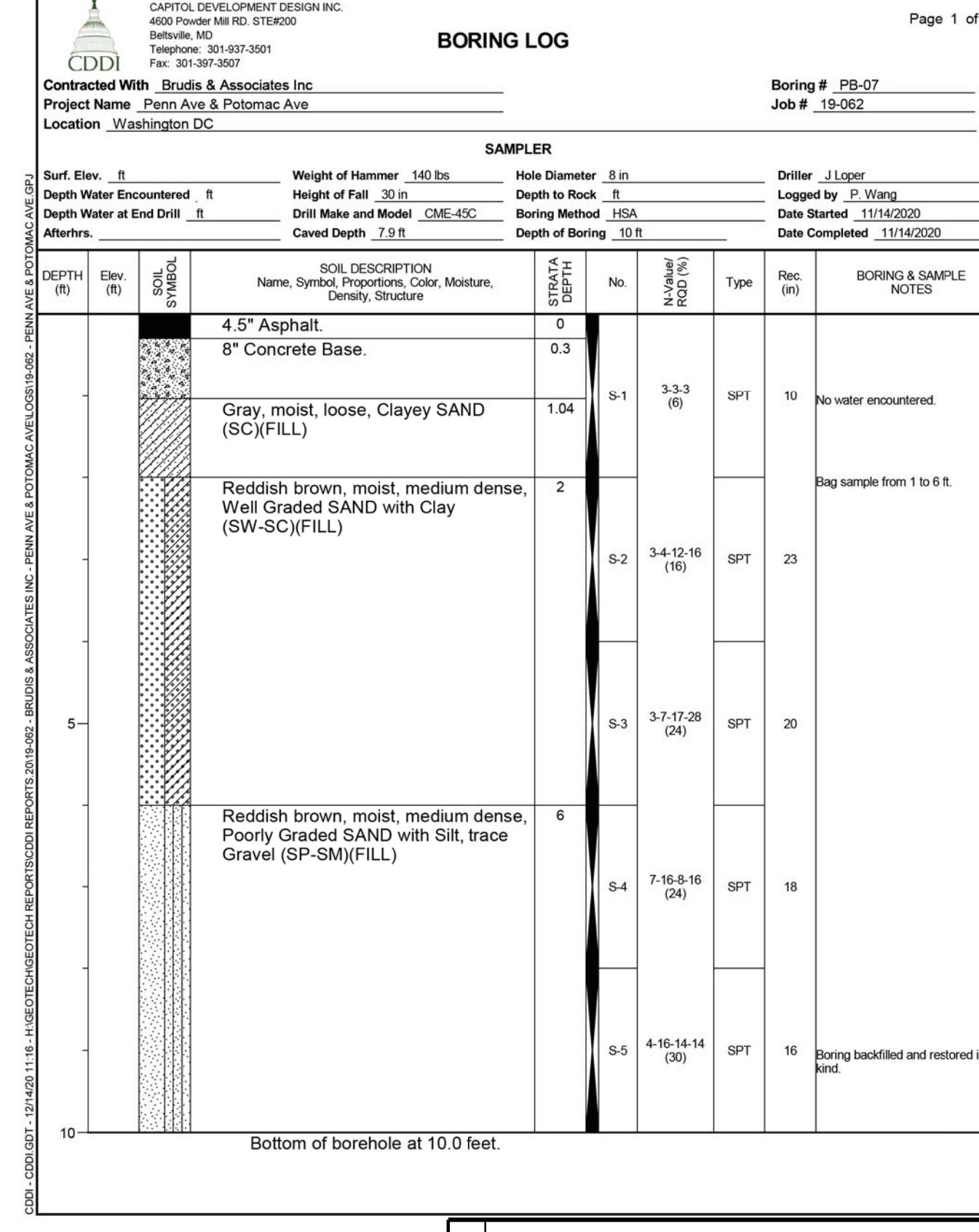
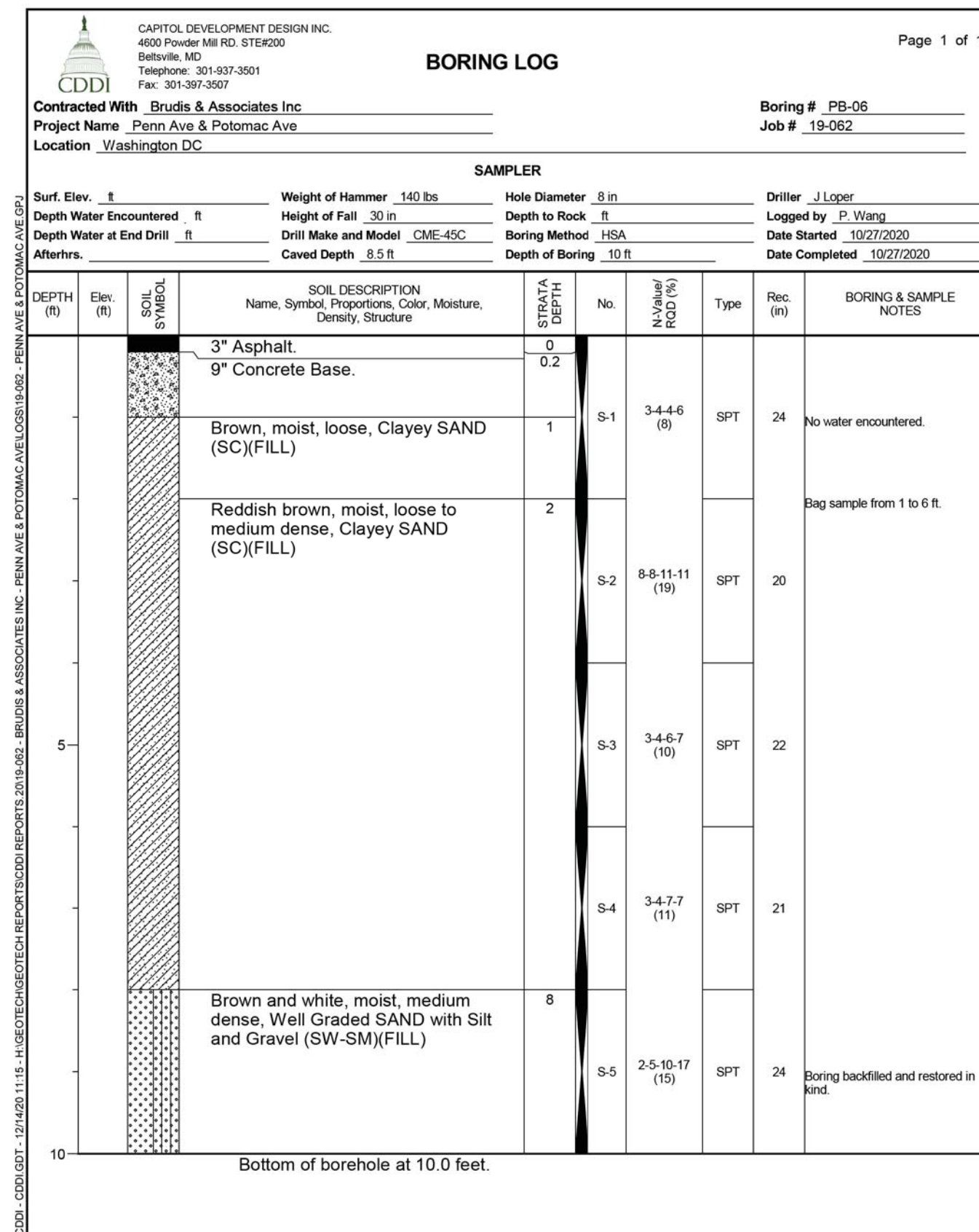
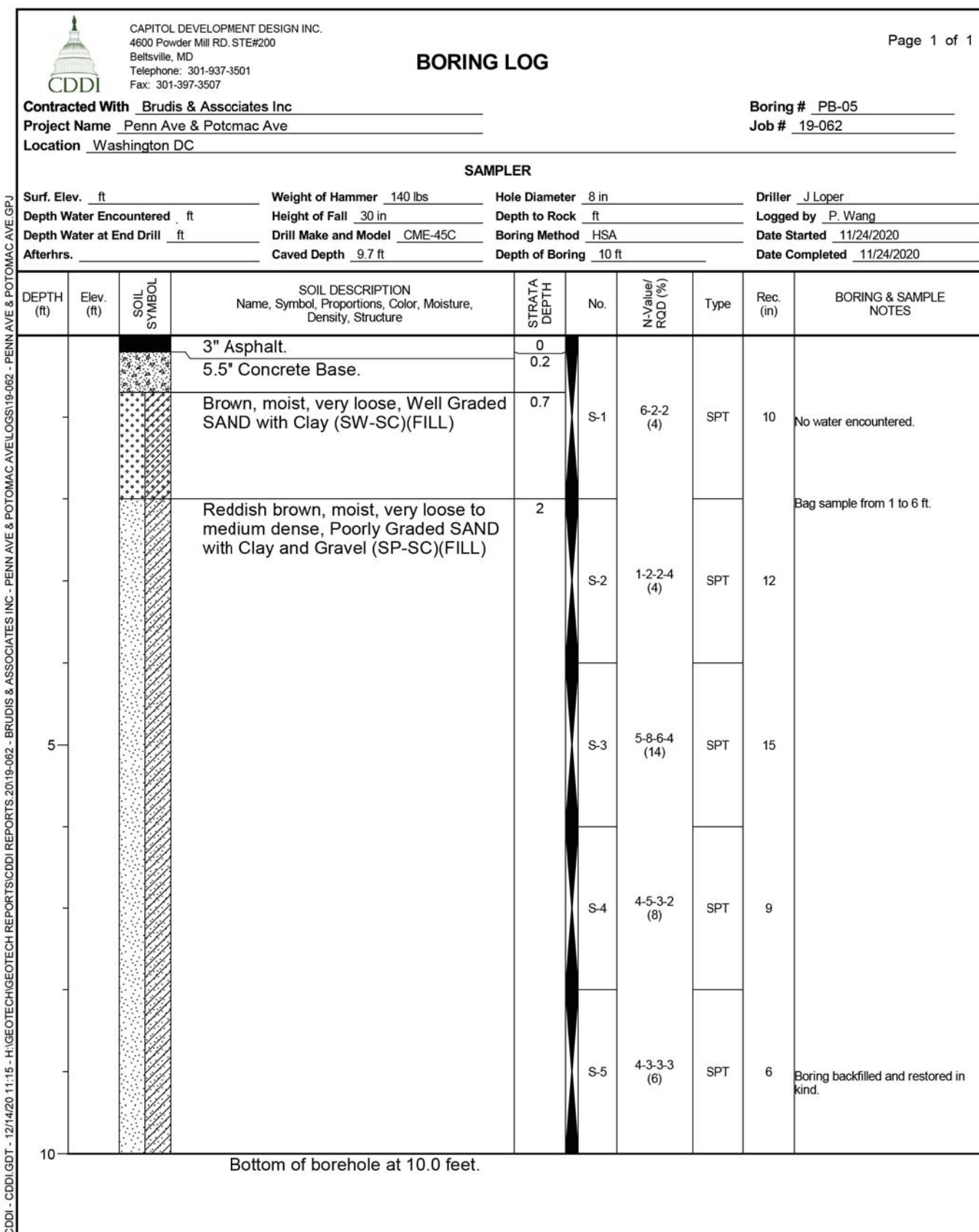
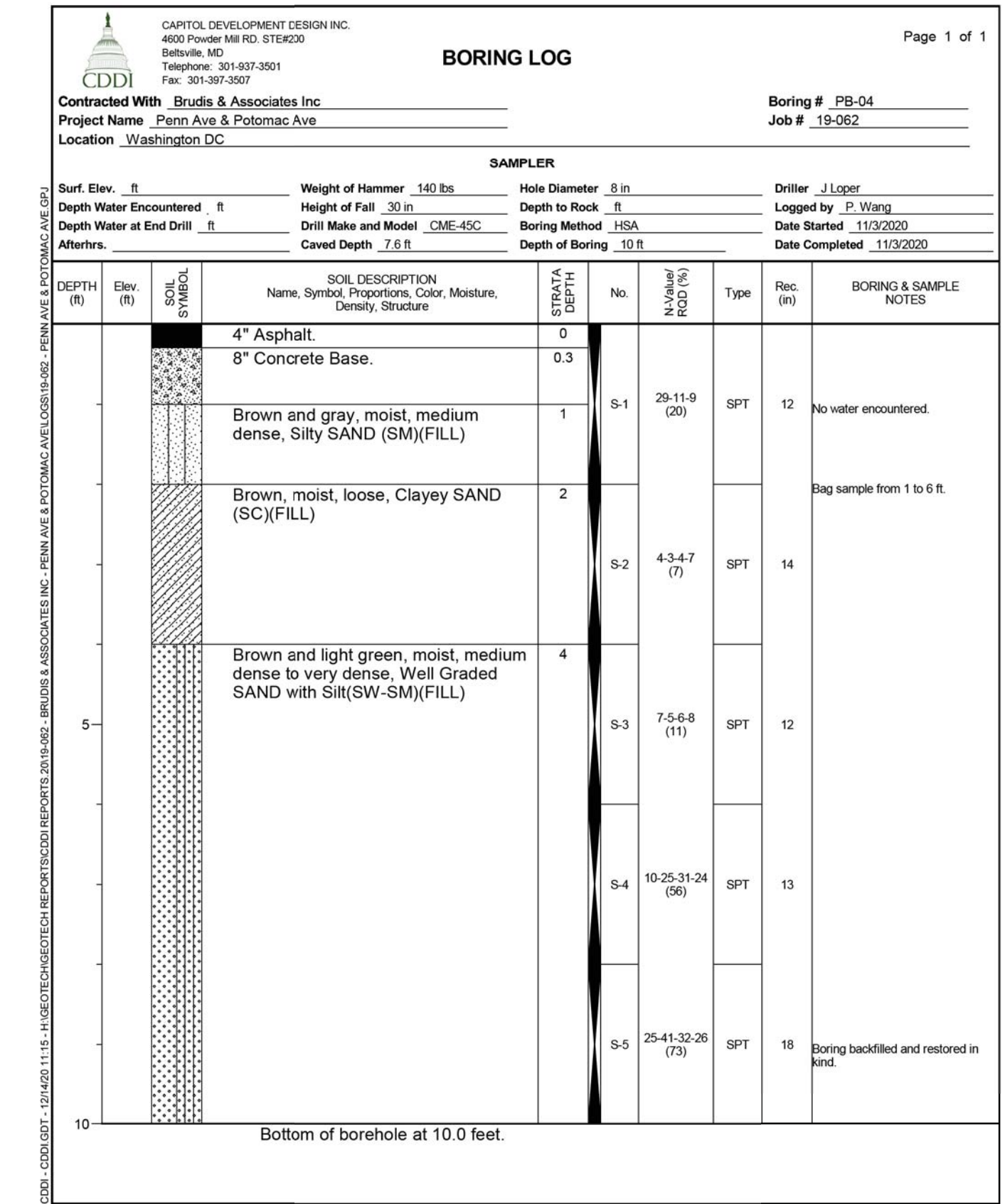
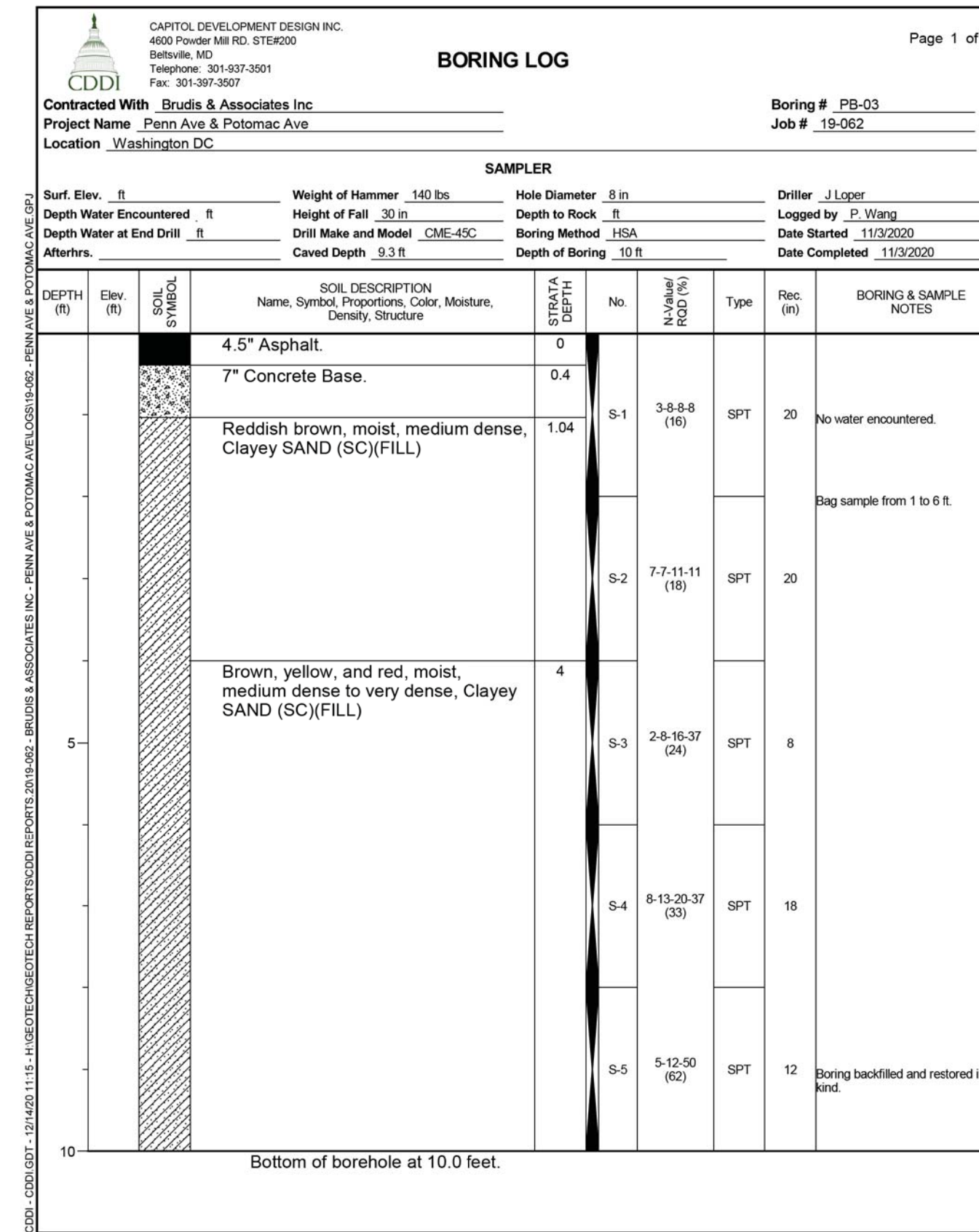
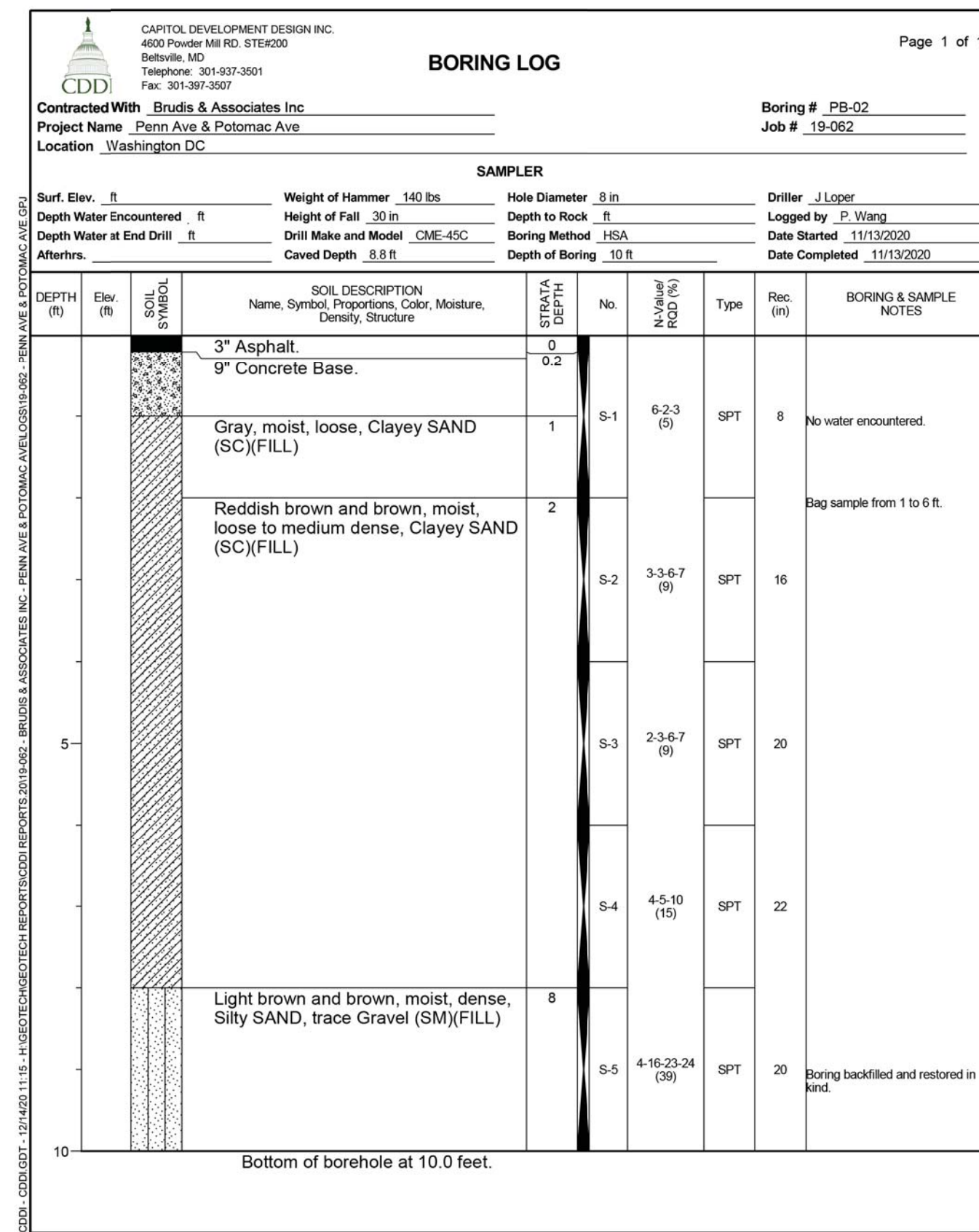
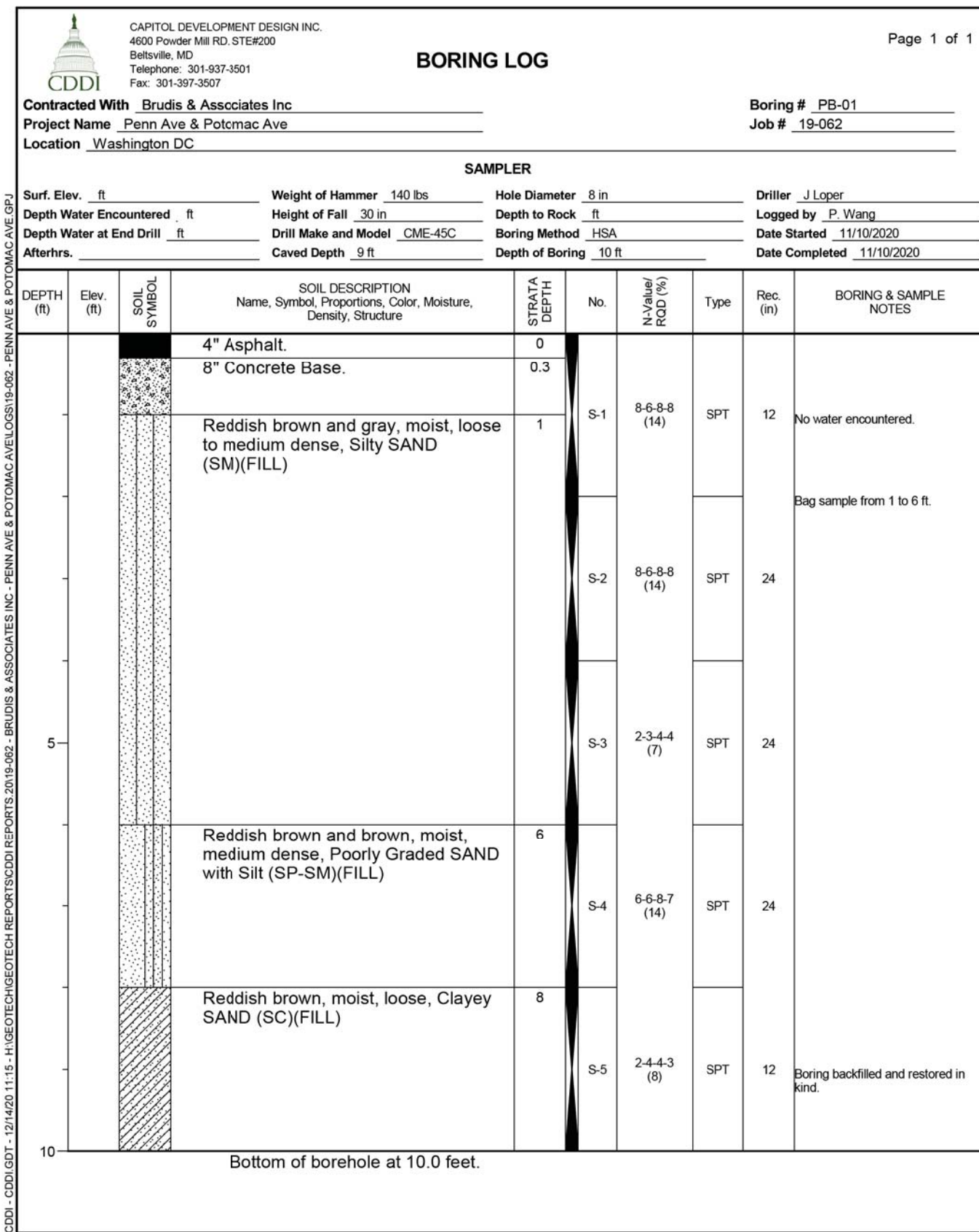
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D.C. DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT DIVISION		
PENNSYLVANIA AND POTOMAC AVE SE INTERSECTION IMPROVEMENT PROJECT		PROJECT ENG. <u>MTW /JA</u> DESIGNED BY <u>MTW /JA</u> CHECKED BY <u>SA</u> DRAWN BY <u>MS</u> PROJECT MGR. <u>RKL</u>
EROSION AND SEDIMENT CONTROL DETAILS		DIVISION CHIEF DATE _____ FILE _____ SHEET 163 OF 167

NO.	DESCRIPTION	NAME	DATE


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 Columbia, Maryland 21044
 Phone 410-884-3607
 www.brudis.com



REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.	FAP NO. STP - 2018 (009)	164	167



DATED: DECEMBER, 2022 SCALE: NONE **SB-01**

D.C. DEPARTMENT OF TRANSPORTATION
 INFRASTRUCTURE PROJECT MANAGEMENT DIVISION

PENNSYLVANIA AND POTOMAC AVE SE INTERSECTION IMPROVEMENT PROJECT

PROJECT ENG. BK
 DESIGNED BY BK / RKL
 CHECKED BY RKL
 DRAWN BY BK
 PROJECT MGR. RKL

DIVISION CHIEF

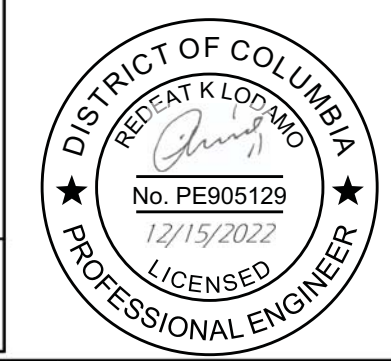
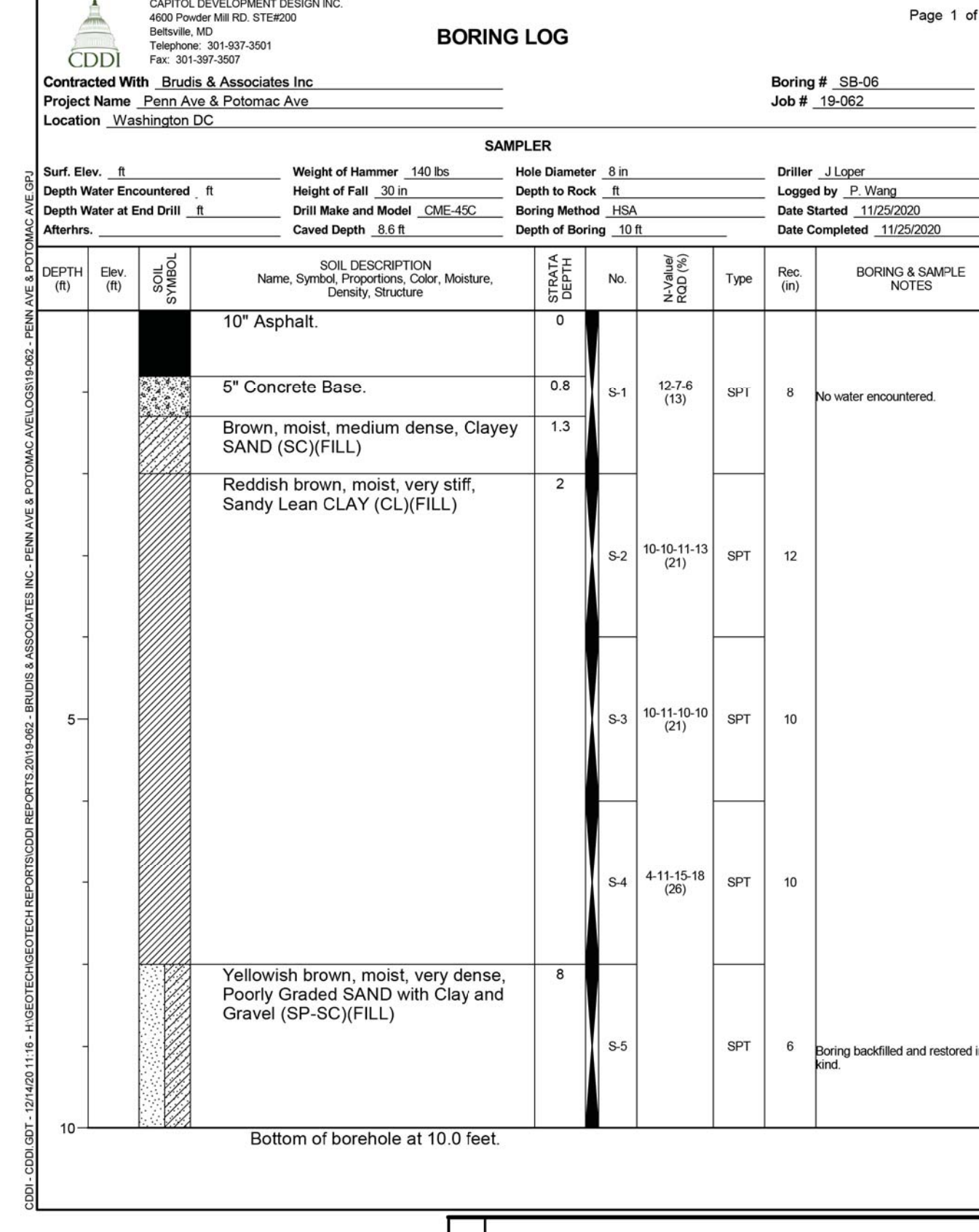
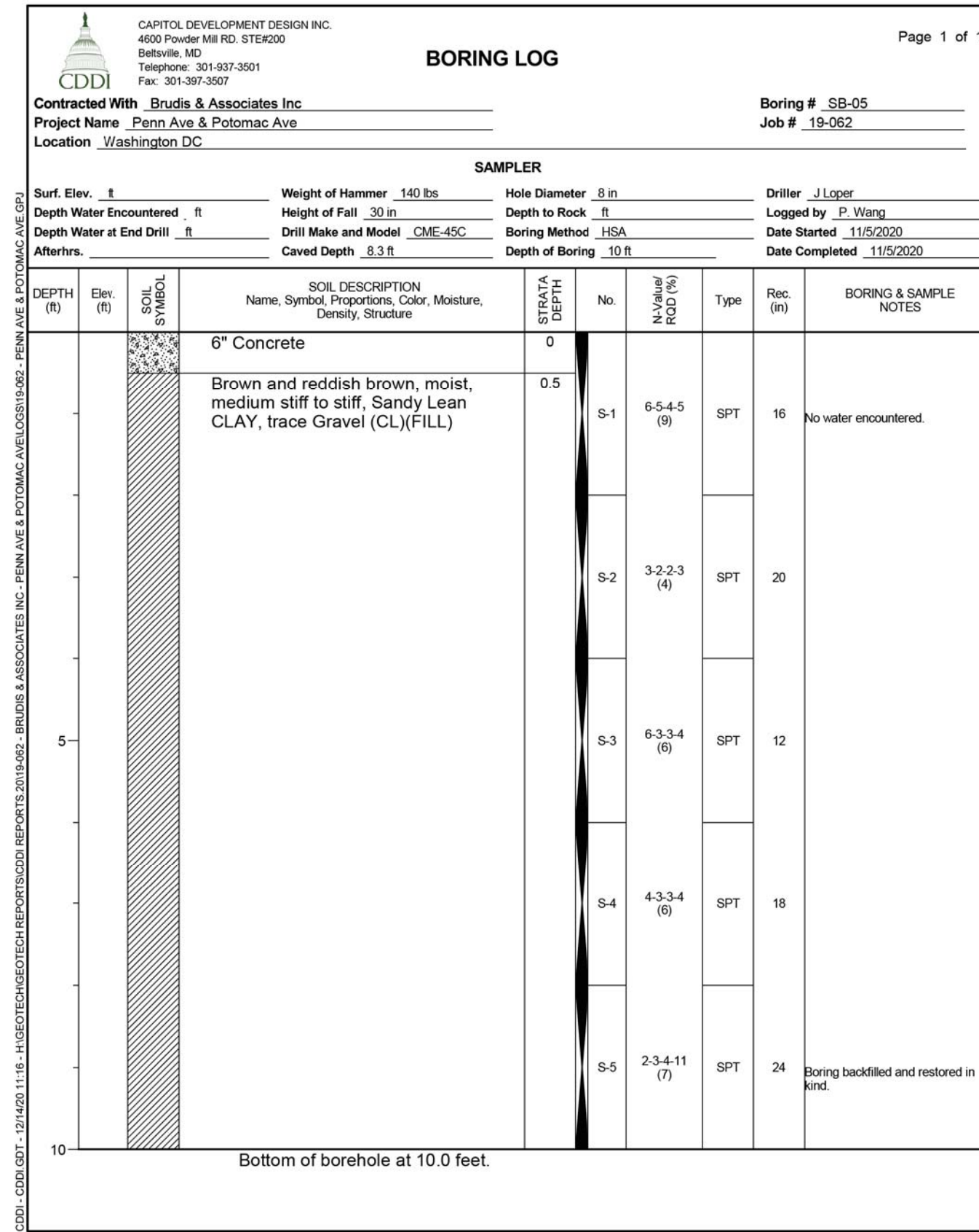
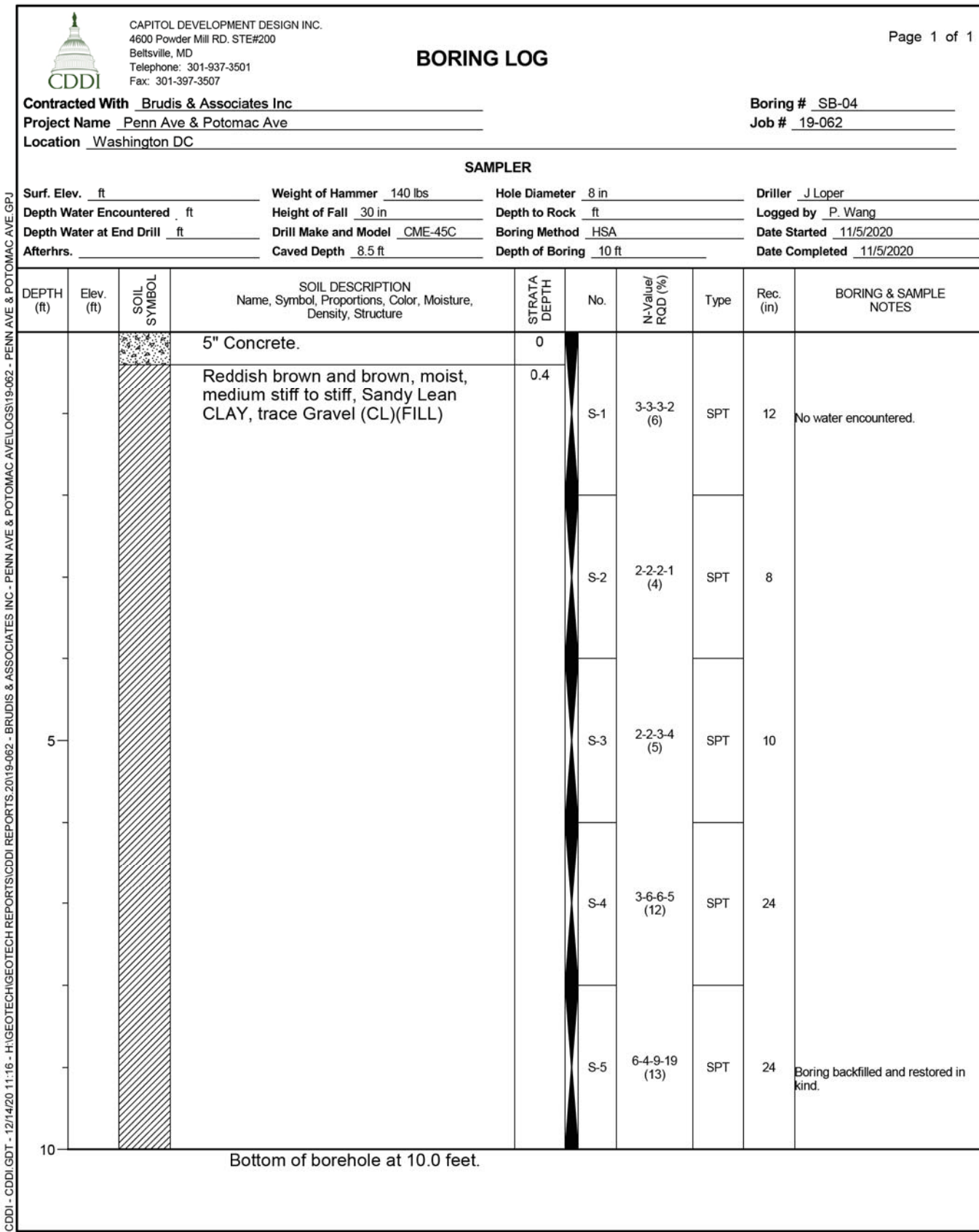
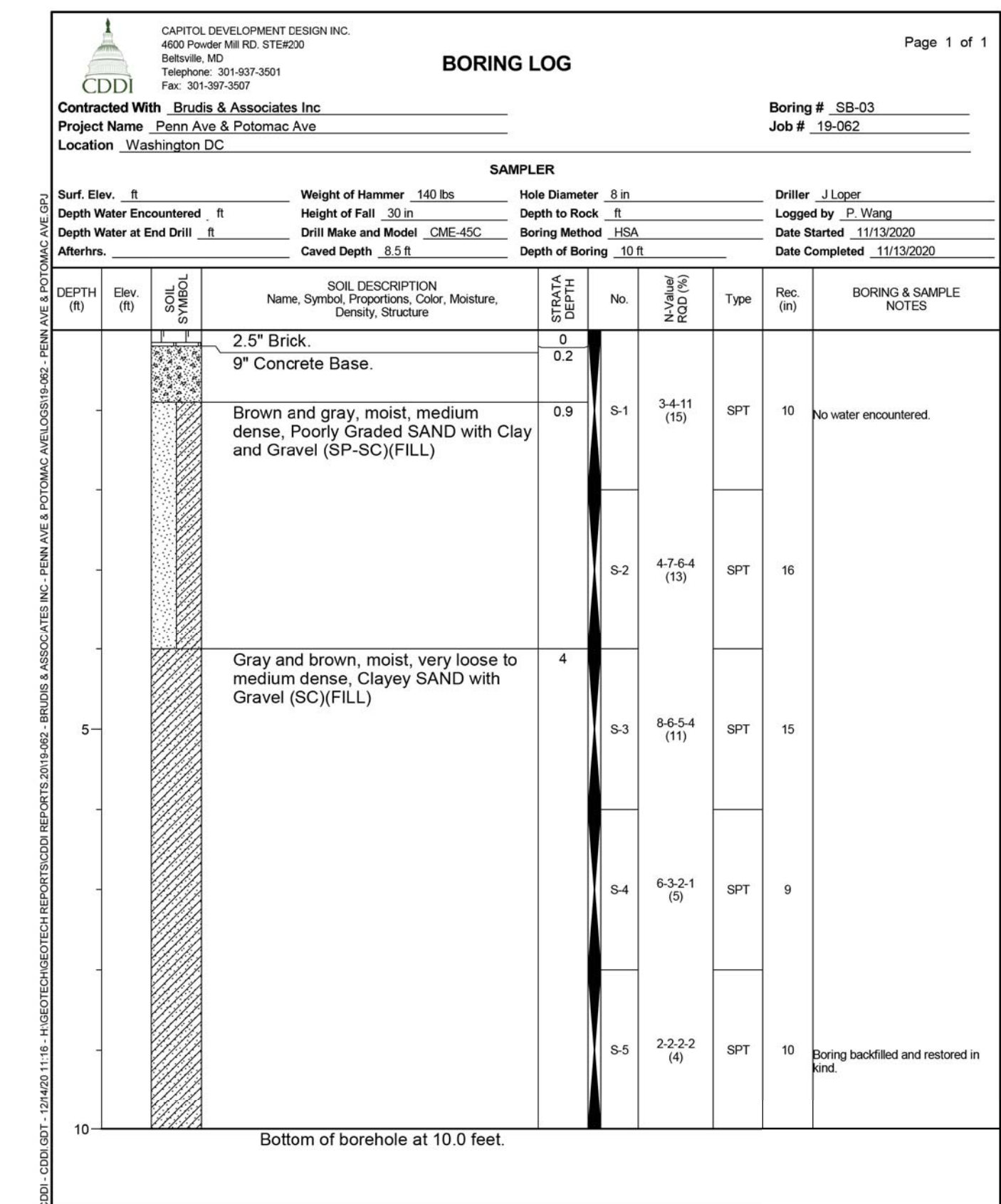
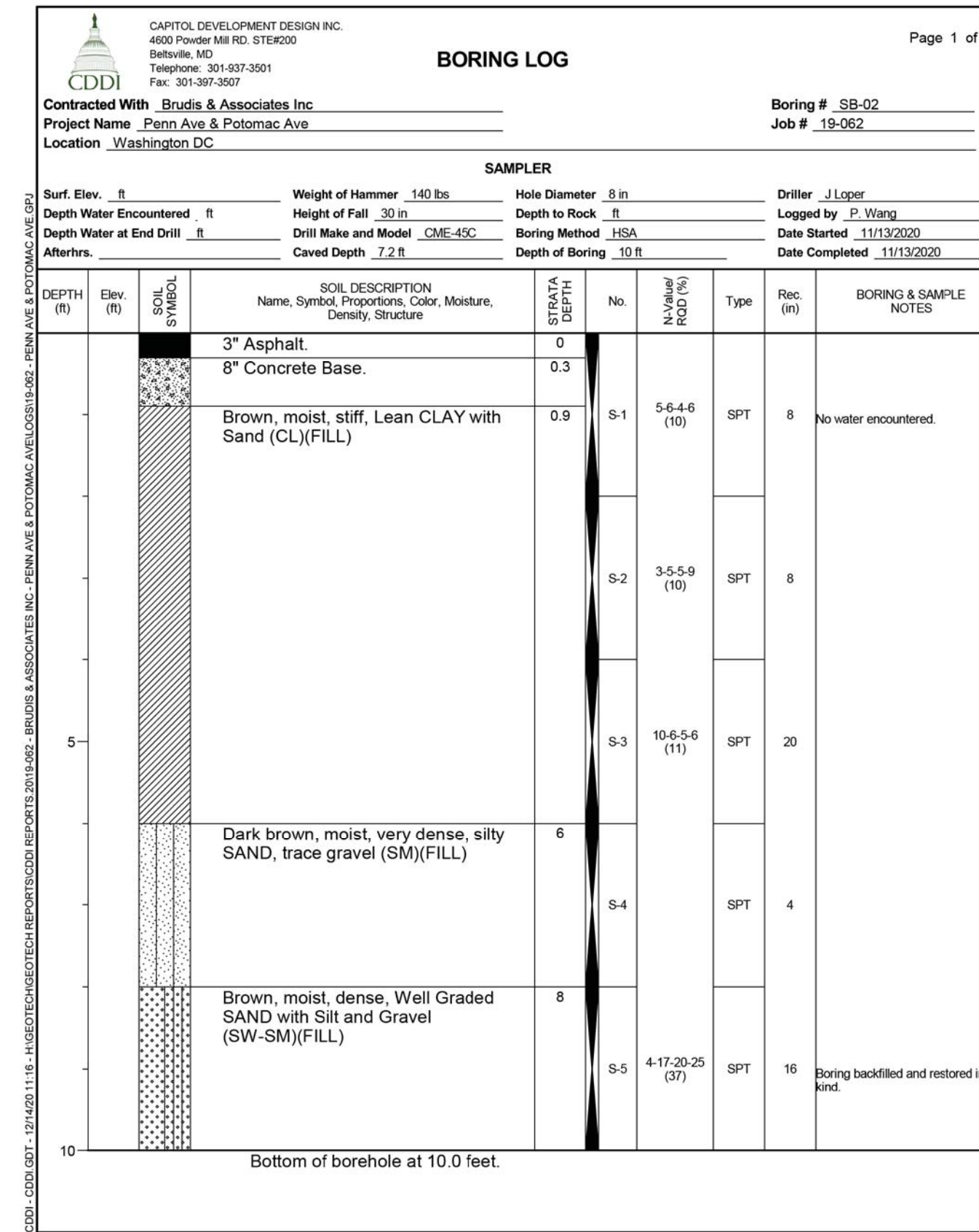
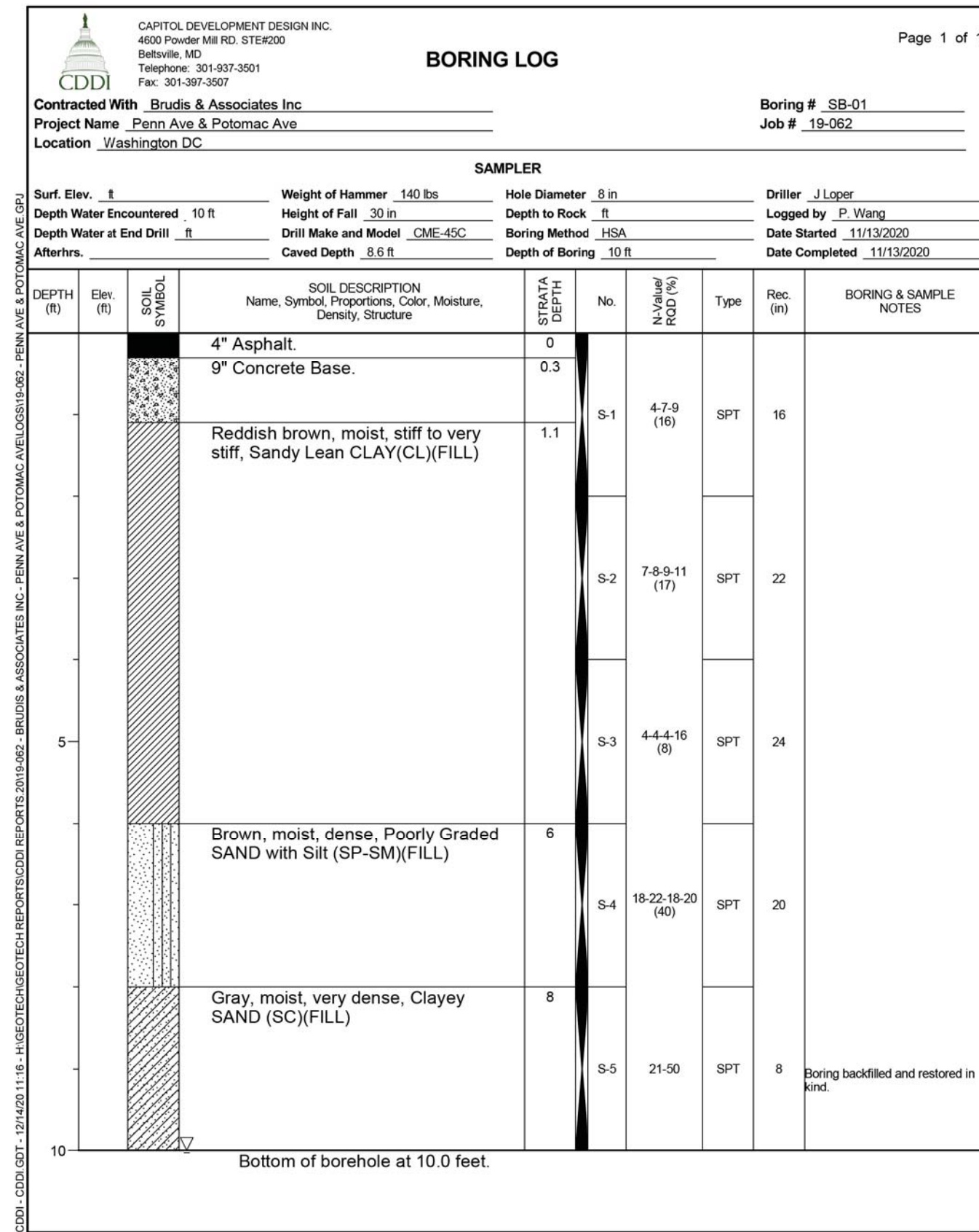
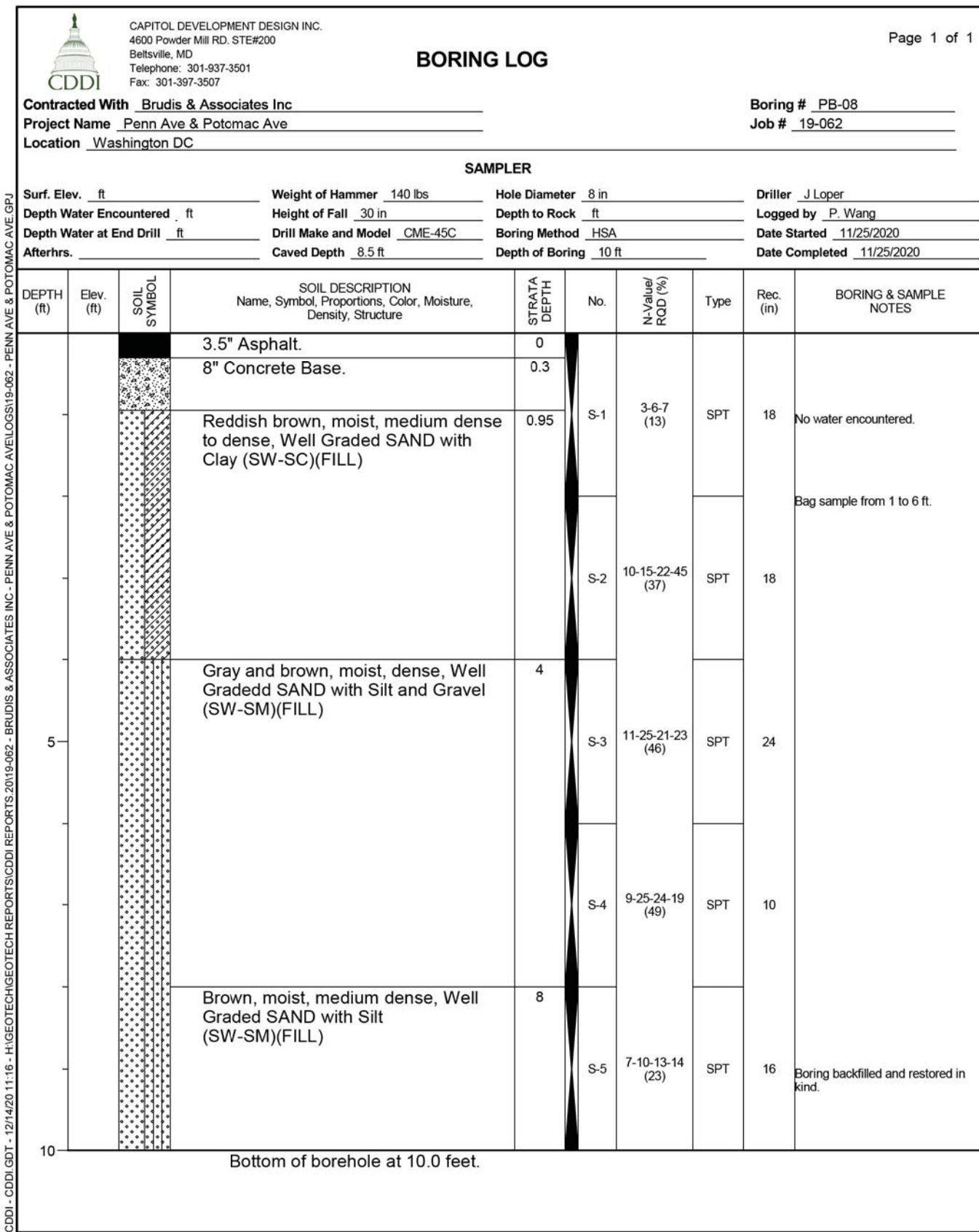
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 Consulting Engineers
 11000 Broken Land Parkway Suite 450
 Columbia, Maryland 21044
 Phone 410-884-3607
 www.brudis.com

NO.	DESCRIPTION	NAME	DATE

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REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.	FAP NO. STP - 2018 (009)	165	167



DATED: DECEMBER, 2022 SCALE: NONE **SB-02**

D.C. DEPARTMENT OF TRANSPORTATION
 INFRASTRUCTURE PROJECT MANAGEMENT DIVISION

PENNSYLVANIA AND POTOMAC AVE SE
 INTERSECTION IMPROVEMENT PROJECT

DIVISION CHIEF

PROJECT ENG. BK
 DESIGNED BY BK / BK
 CHECKED BY BK
 DRAWN BY BK
 PROJECT MGR. BK

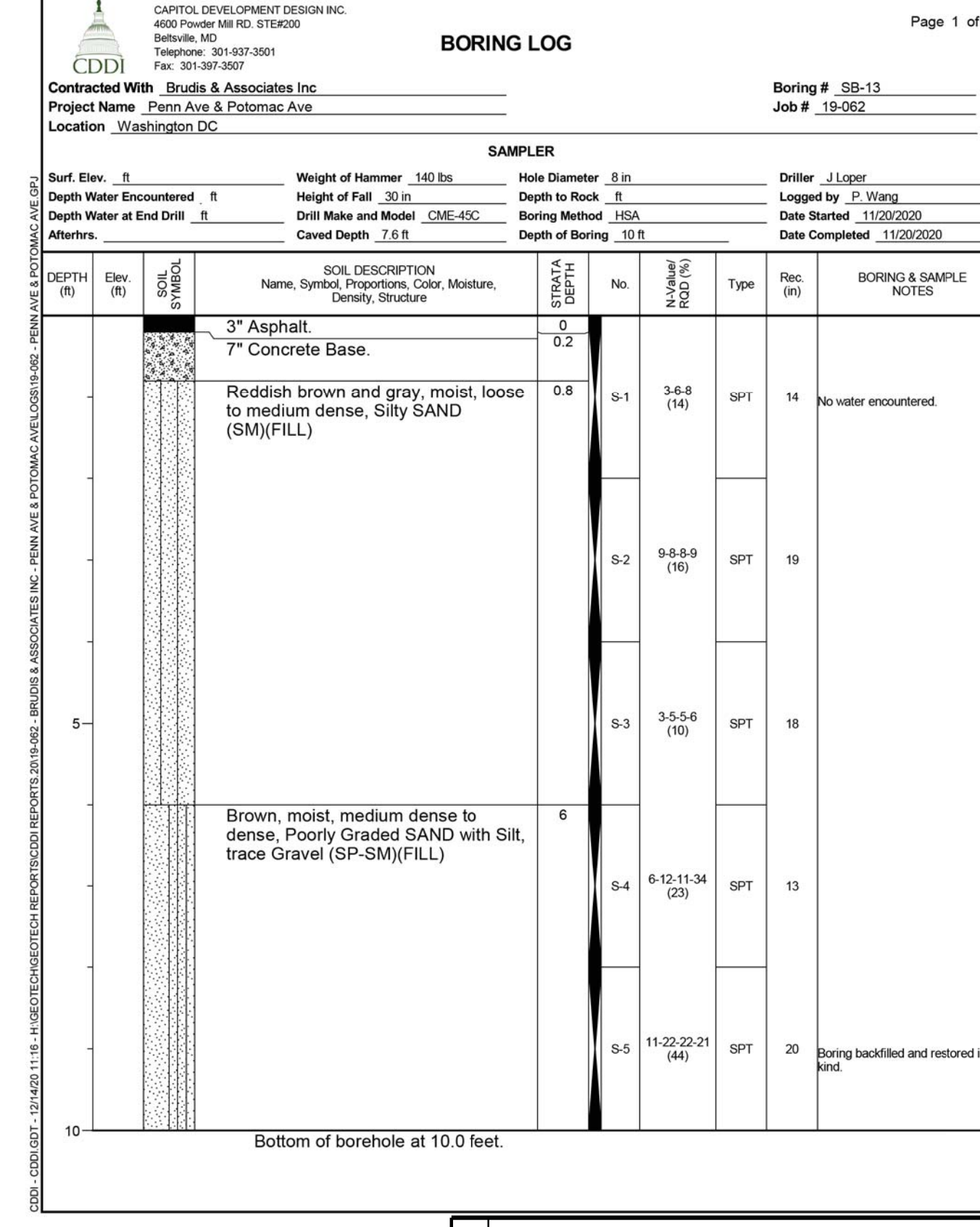
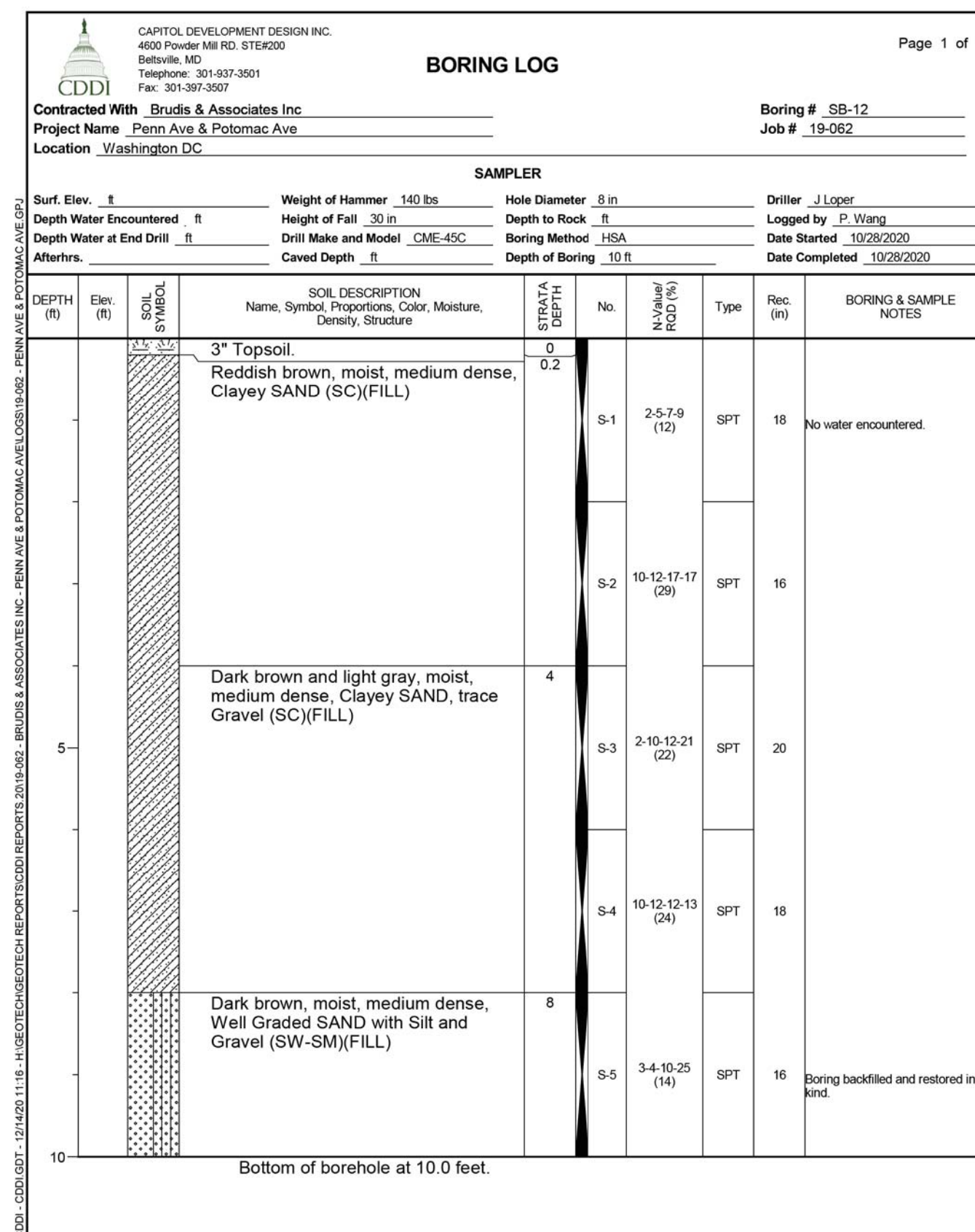
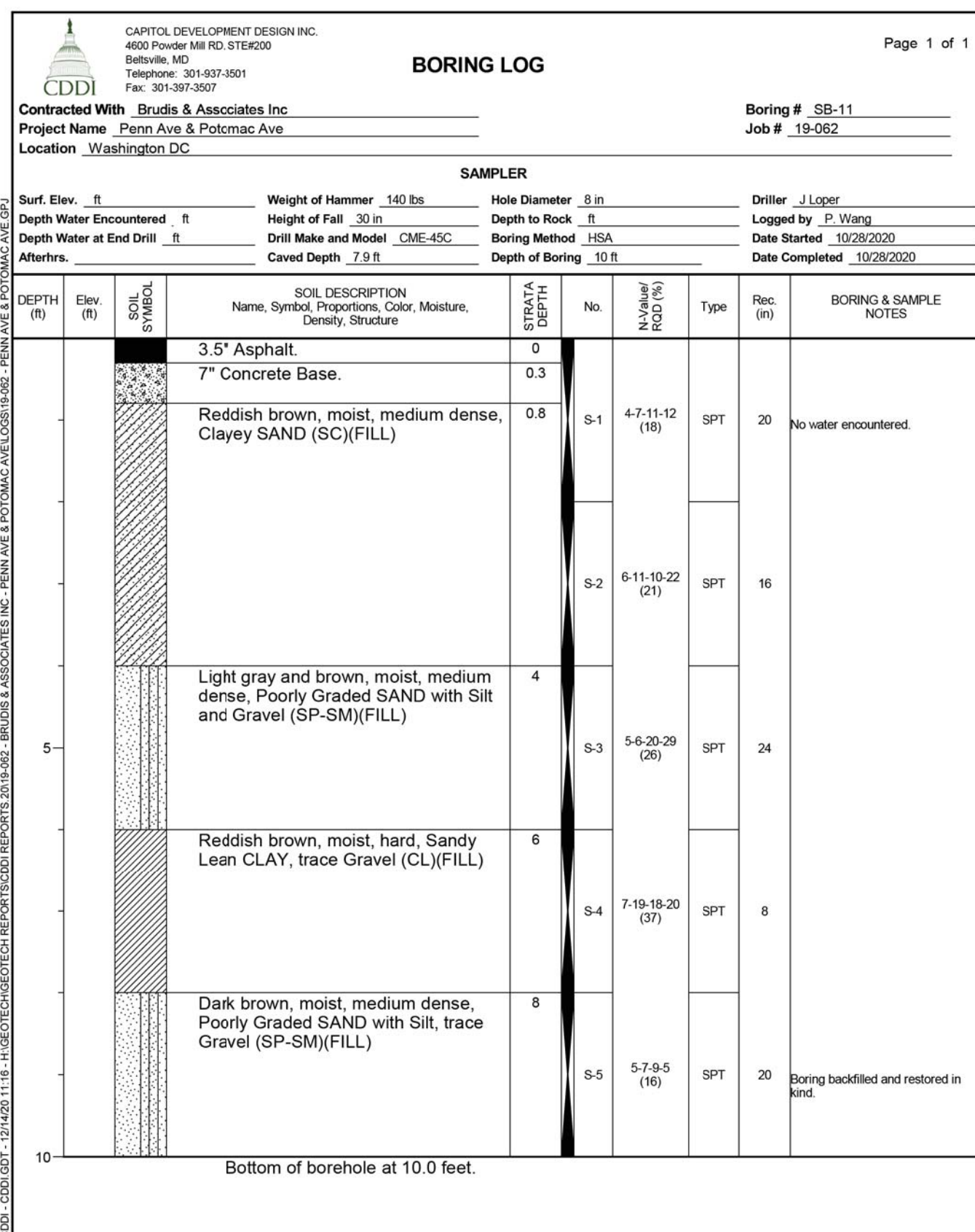
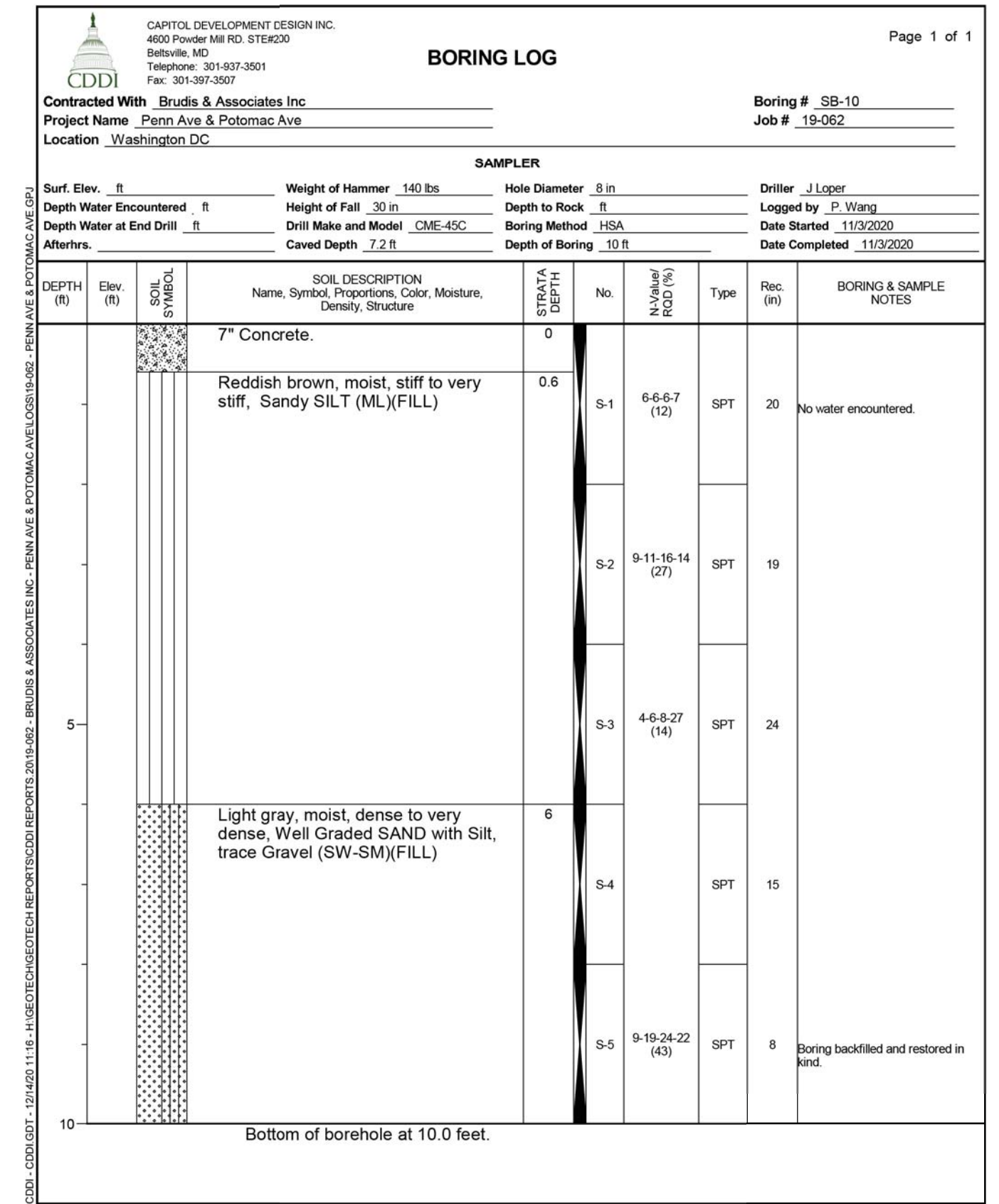
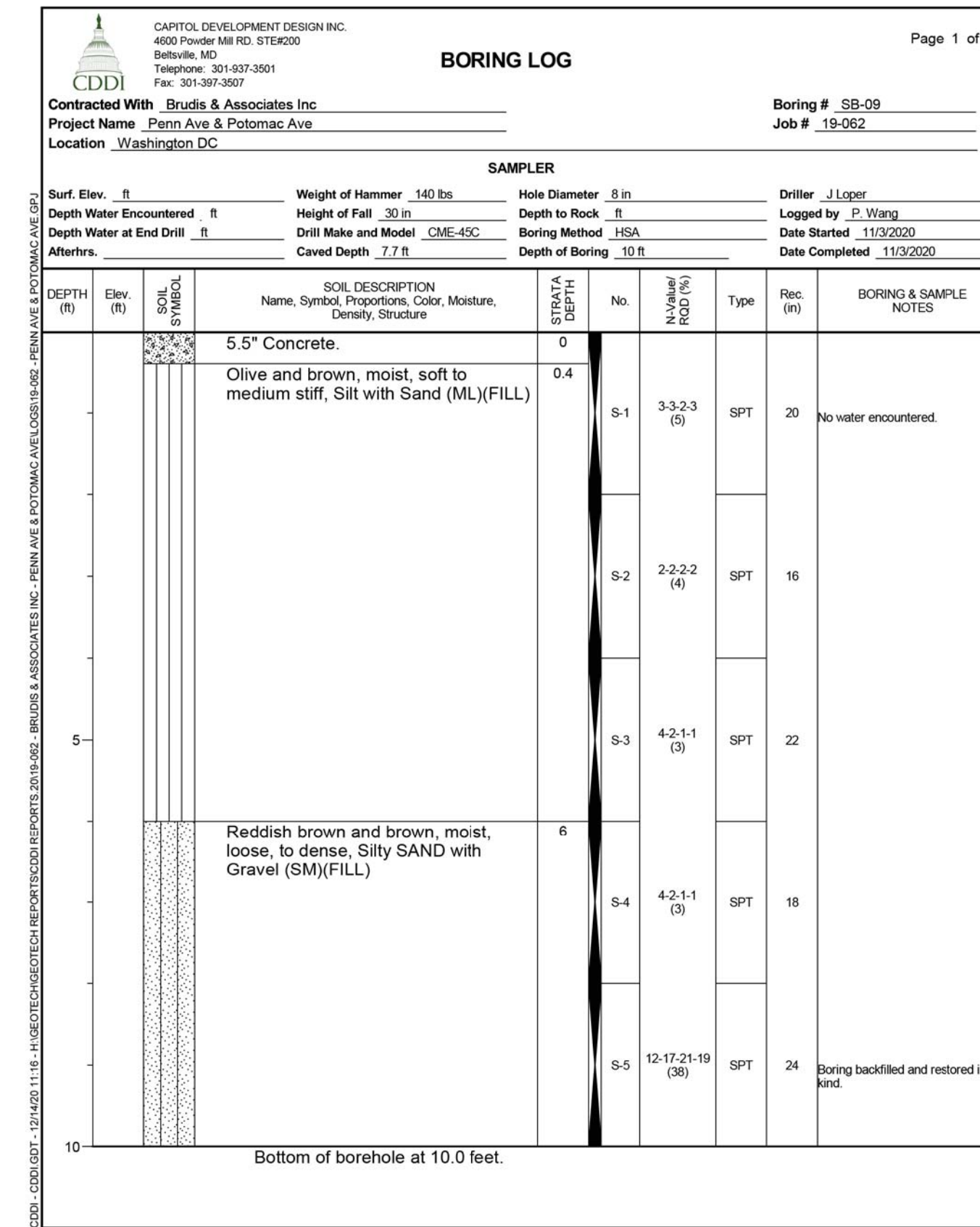
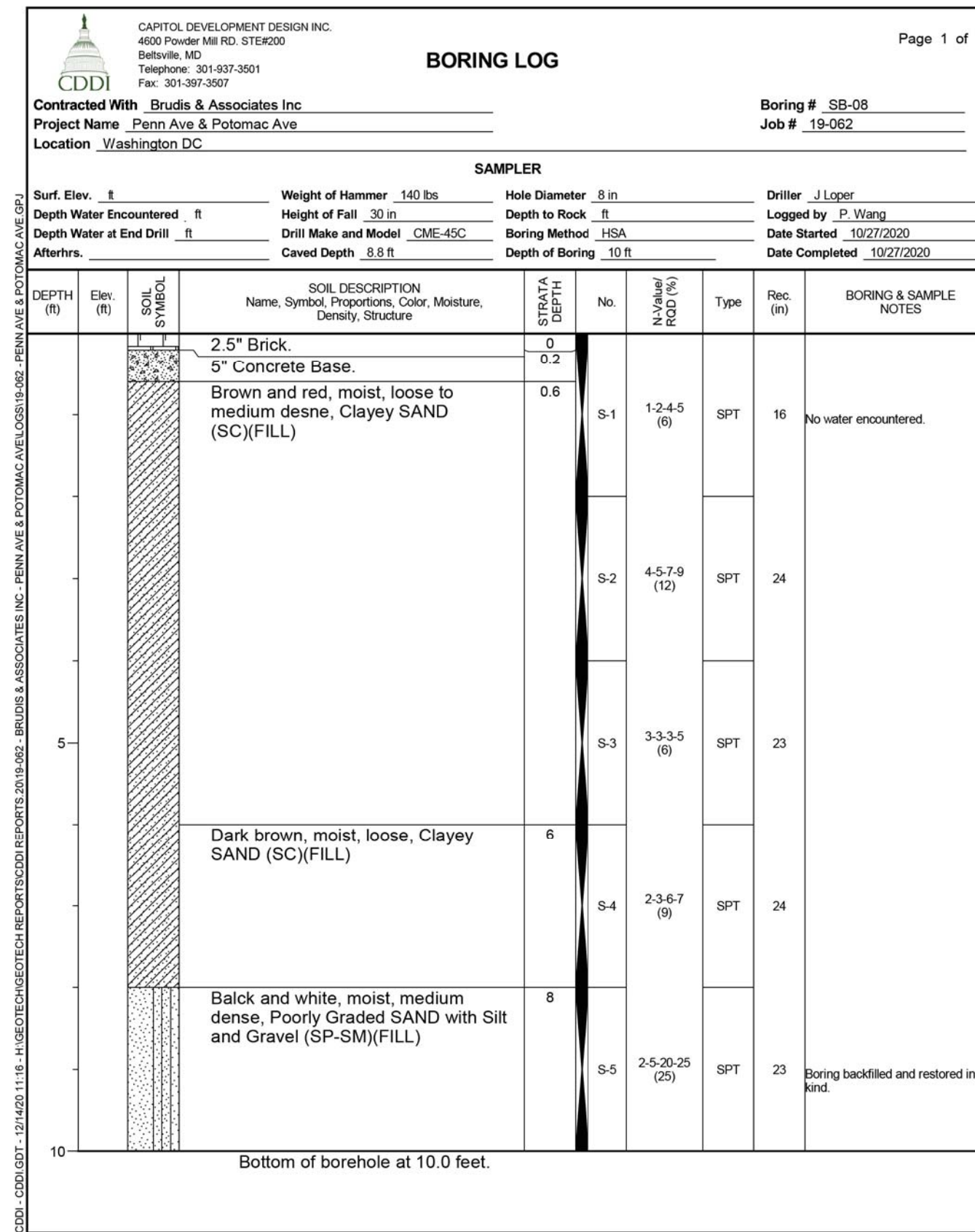
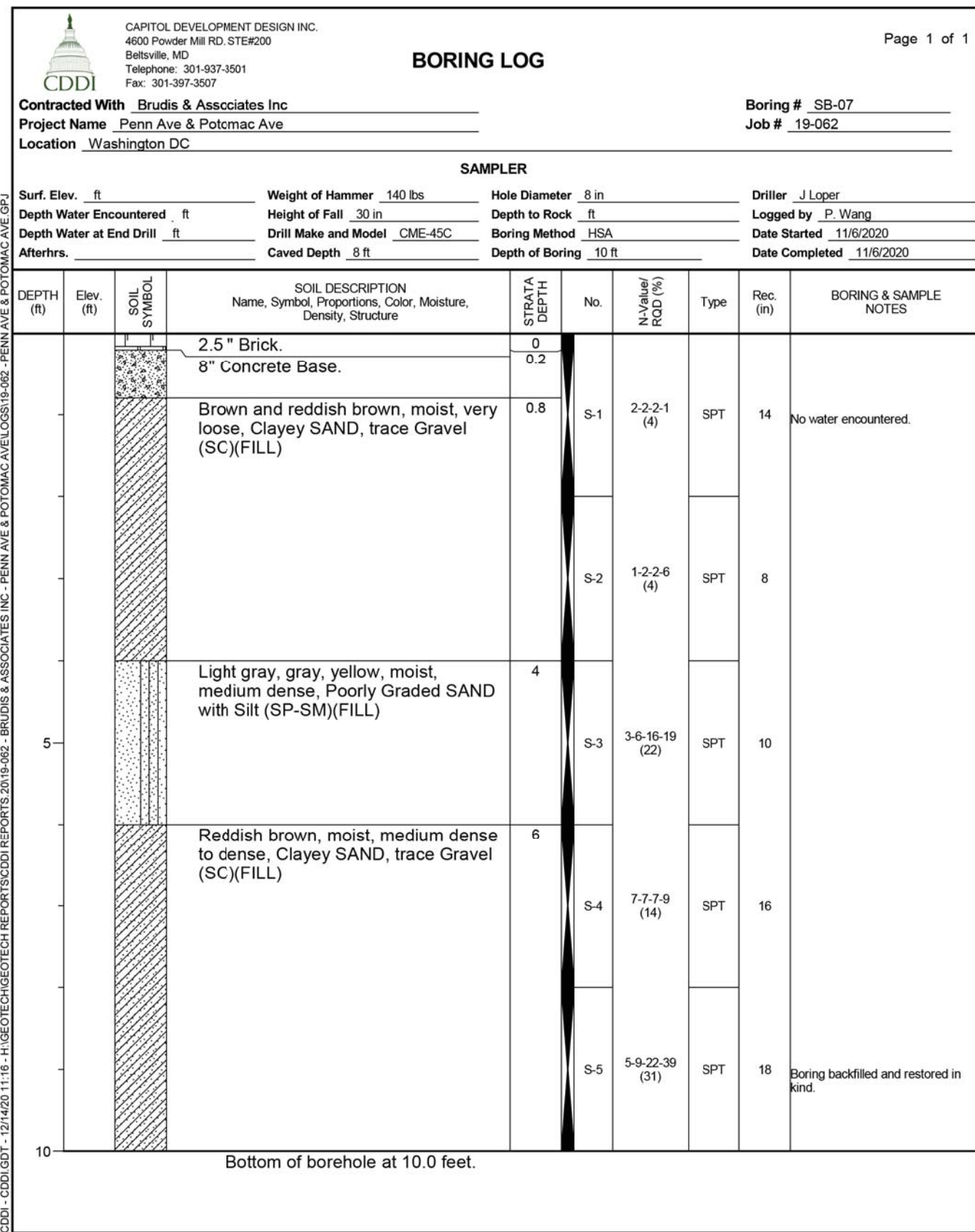
DATE
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 SHEET 165 OF 167

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NO.	DESCRIPTION	NAME	DATE

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REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.	FAP NO. STP - 2018 (009)	166	167



DATED: DECEMBER, 2022 SCALE: NONE **SB-03**

D.C. DEPARTMENT OF TRANSPORTATION
 INFRASTRUCTURE PROJECT MANAGEMENT DIVISION

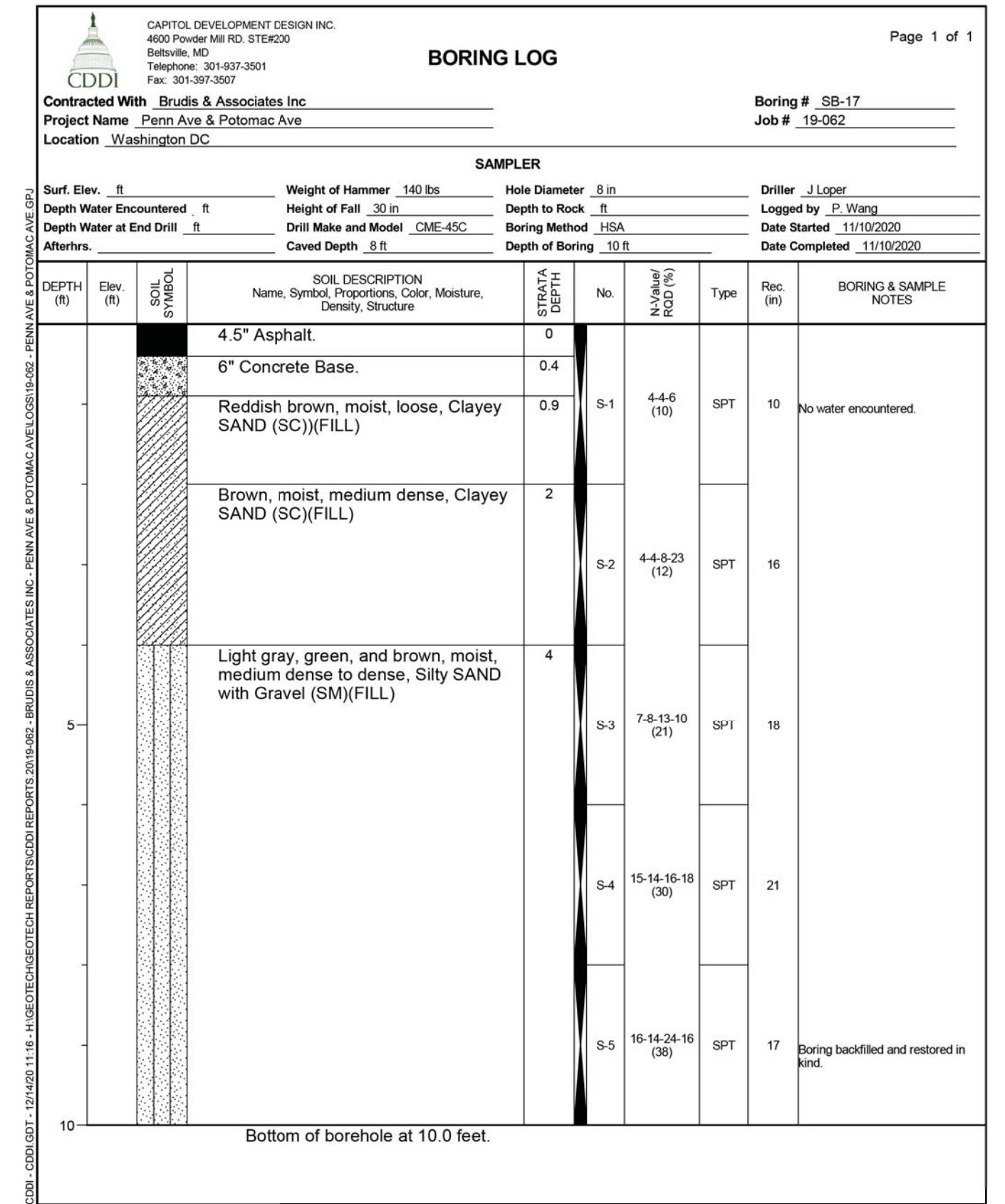
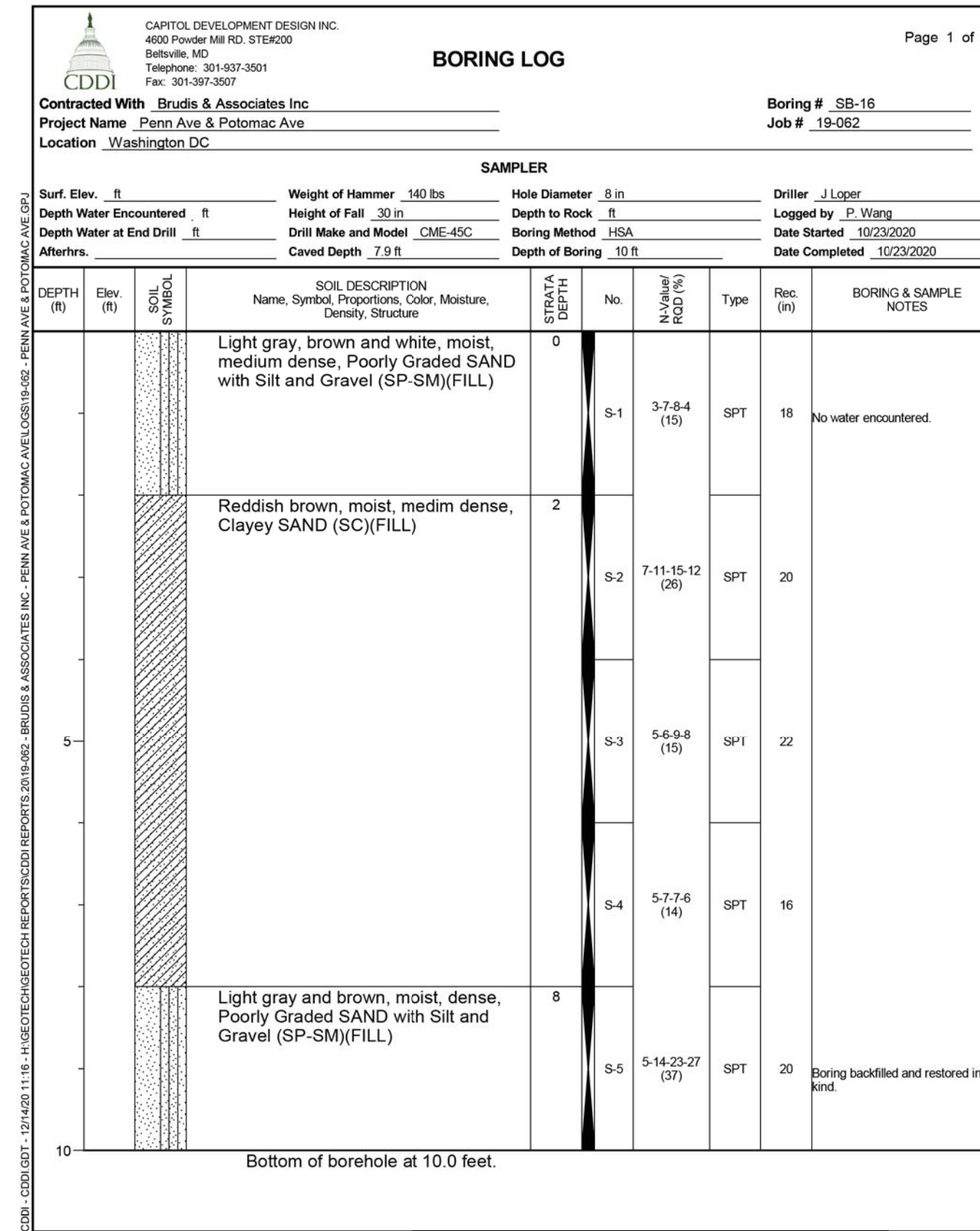
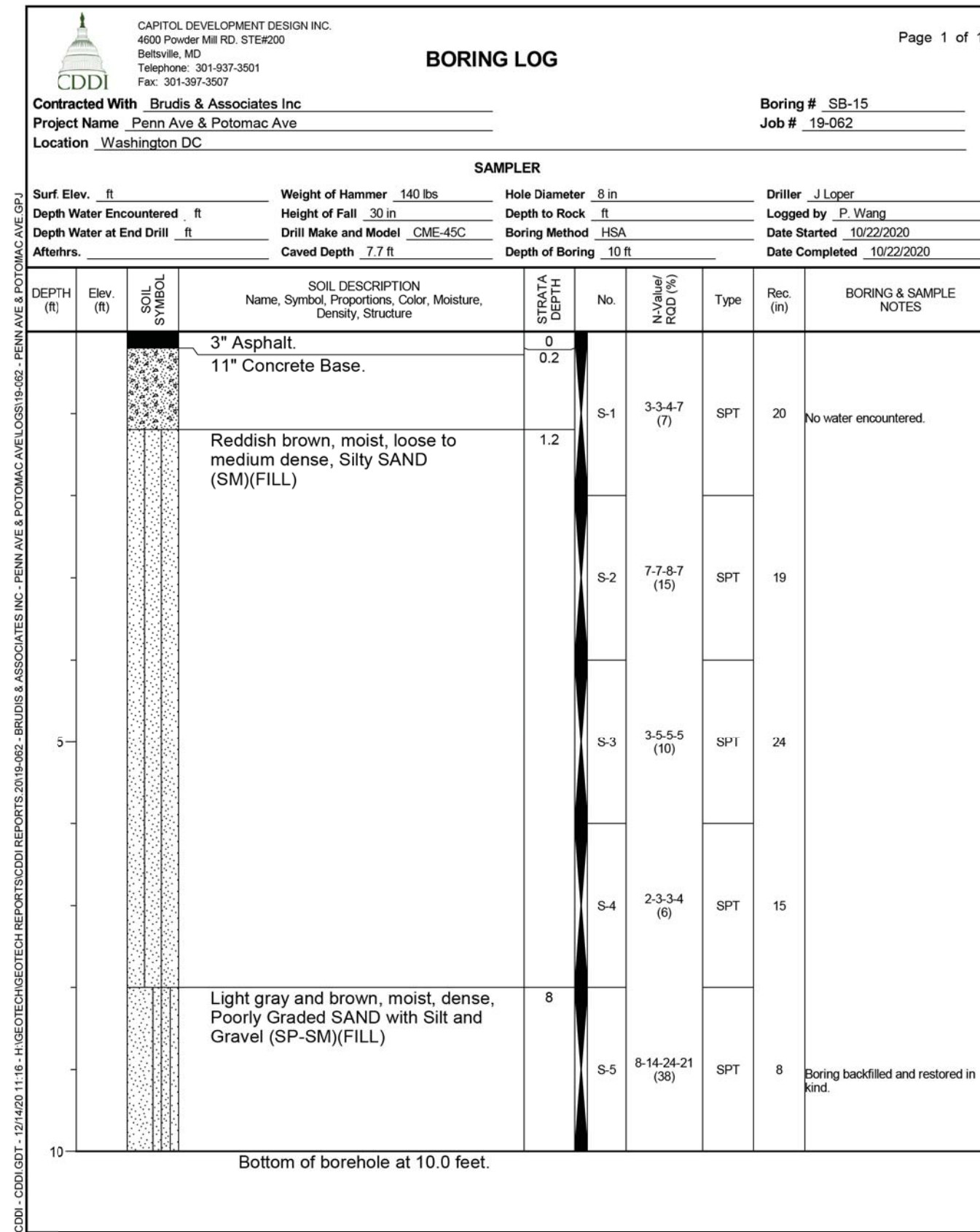
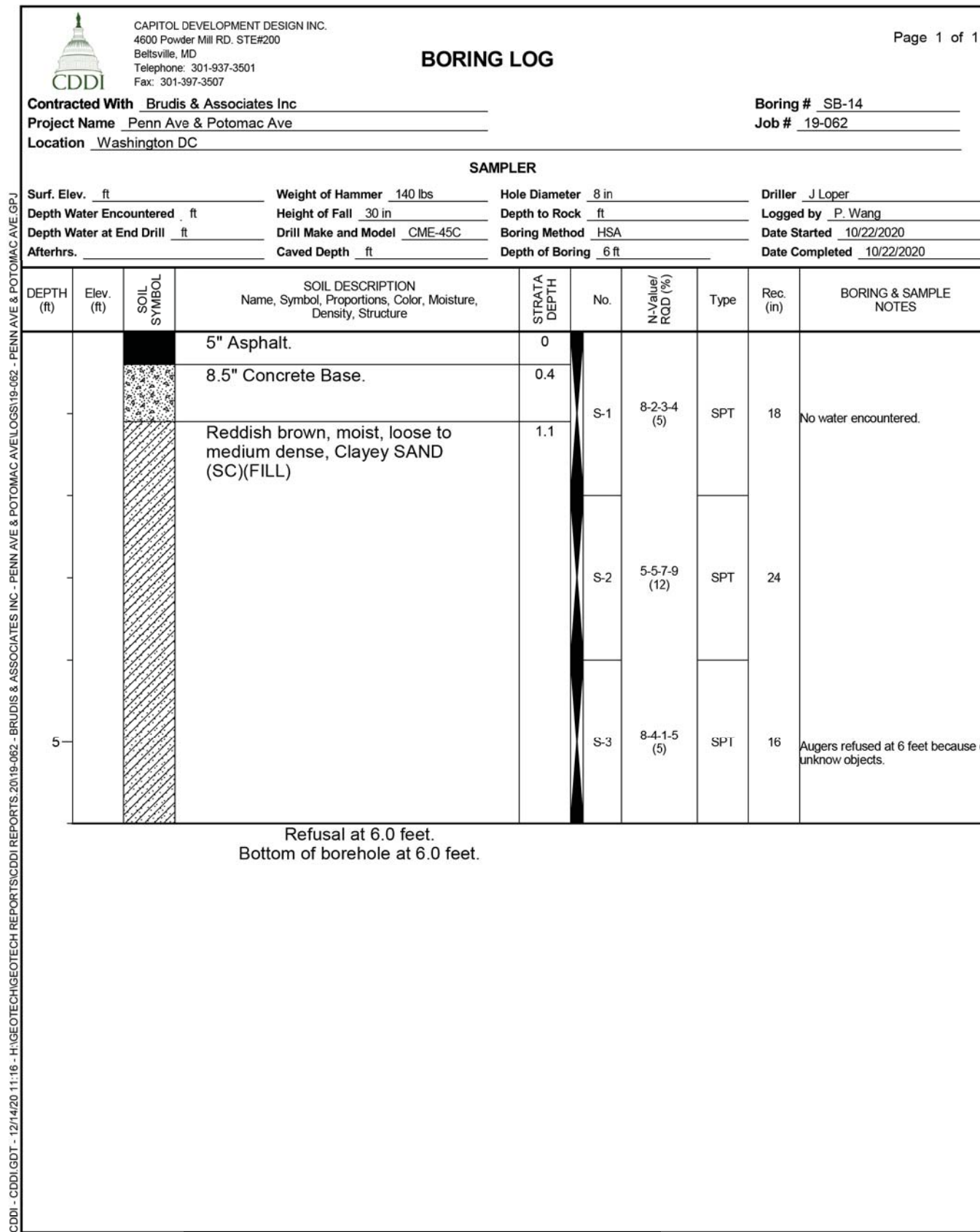
PENNSYLVANIA AND POTOMAC AVE SE
 INTERSECTION IMPROVEMENT PROJECT

DIVISION CHIEF
 DATE _____
 FILE _____
 SHEET 166 OF 167

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NO.	DESCRIPTION	NAME	DATE

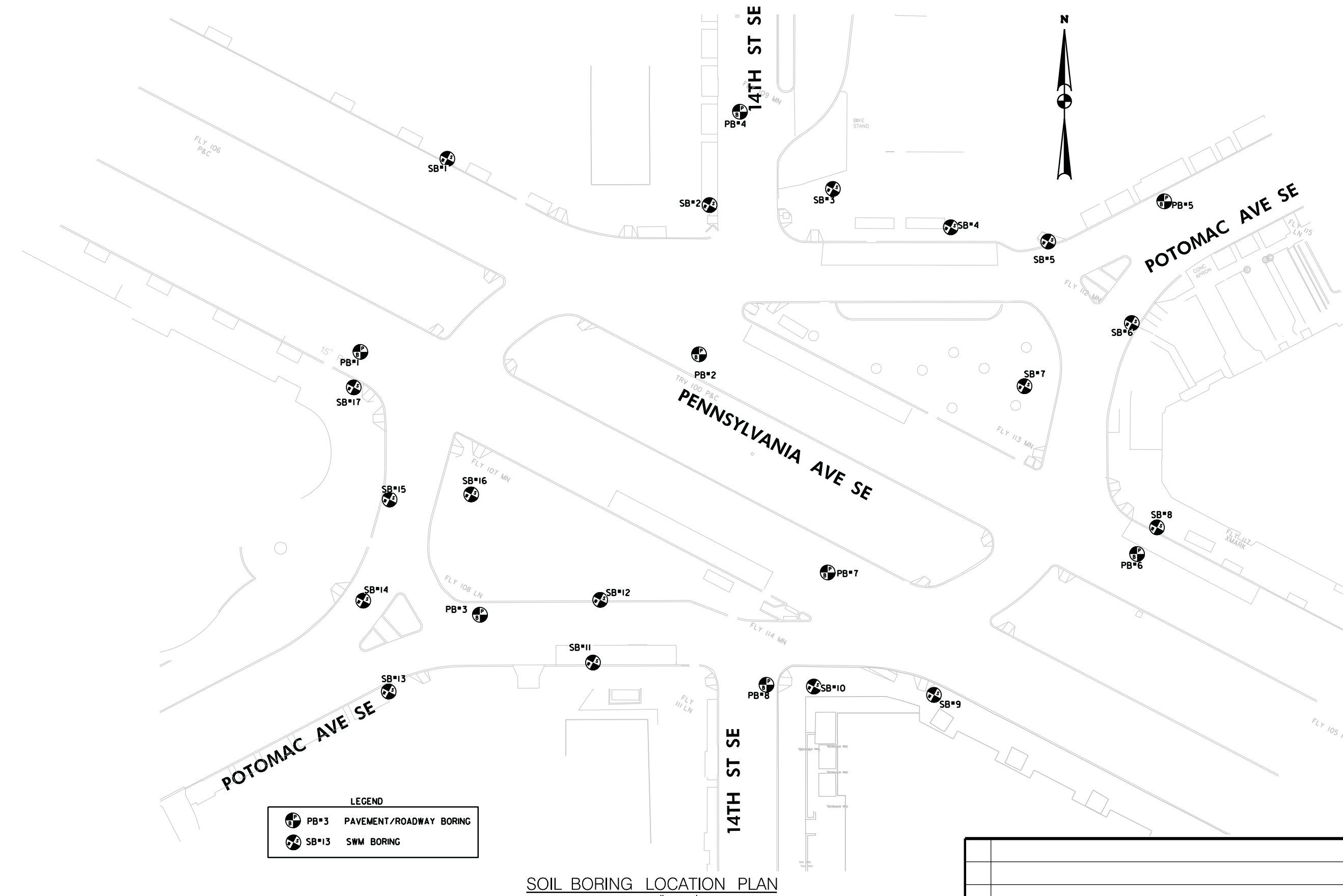
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SUMMARY OF SOIL PROPERTIES PER USDA CLASSIFICATION

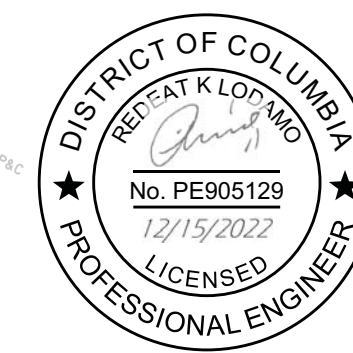
Boring ID.	Sample Depth (ft.)	USDA Textural Classification	Hydrologic Soil Grouping	Silt* (%)	Clay* (%)	Nature of soil	Field Infiltration Rate (in/hr.)
SB-1	0 to 10	Clay Loam	D	36.6	29.9	Fill	0.00
SB-2	0 to 10	Clay	D	27.7	52.8	Fill	0.00
SB-3	0 to 10	Sandy Loam	A	12.3	18.1	Fill	0.69
SB-4	0 to 10	Clay	D	16.9	44.8	Fill	0.02
SB-5	0 to 10	Sandy Clay Loam	C	19.1	33.6	Fill	0.31
SB-6	0 to 10	Clay Loam	D	22.7	32.9	Fill	0.00
SB-7	0 to 10	Sandy Loam	A	4.8	16.5	Fill	0.00
SB-8**	0 to 10	Sandy Loam	A	15.7	19.3	Fill	0.00
SB-9	0 to 10	Loam	B	49.3	25.7	Fill	0.00
SB-10**	0 to 10	Sandy Clay	D	13.8	39.7	Fill	0.00
SB-11	0 to 10	Sandy Clay Loam	C	17.4	34.4	Fill	0.09
SB-12	0 to 10	Sandy Loam	A	11.1	18.0	Fill	0.18
SB-13	0 to 10	Sandy Clay Loam	C	21.5	26.2	Fill	0.00
SB-14	0 to 10	Sandy Clay Loam	C	19.1	26.5	Fill	0.01
SB-15	0 to 10	Sandy Loam	A	16.6	17.1	Fill	0.77
SB-16	0 to 10	Sandy Clay Loam	C	14.4	28.1	Fill	0.00
SB-17	0 to 10	Sandy Clay Loam	C	17.3	23.0	Fill	0.00

*Based on percentages of materials passing the No. 10 sieve for hydrometer tests.
 ** Infiltration tests were not performed due to the presence of groundwater in those borings.



SOIL BORING LOCATION PLAN
 1" = 50'

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DATED: DECEMBER, 2022	SCALE: NONE	SB-04
D.C. DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT DIVISION		
PENNSYLVANIA AND POTOMAC AVE SE INTERSECTION IMPROVEMENT PROJECT		
PROJECT ENG. <u> </u> BK	DESIGNED BY <u> </u> BK /RKL	CHECKED BY <u> </u> RKL
SOIL BORING LOGS		
DIVISION CHIEF		
DATE <u> </u>	FILE <u> </u>	SHEET 167 OF 167

NO.	DESCRIPTION	NAME	DATE

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