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OWNER
DEPARTMENT OF
ENVIRONMENTAL SERVICES

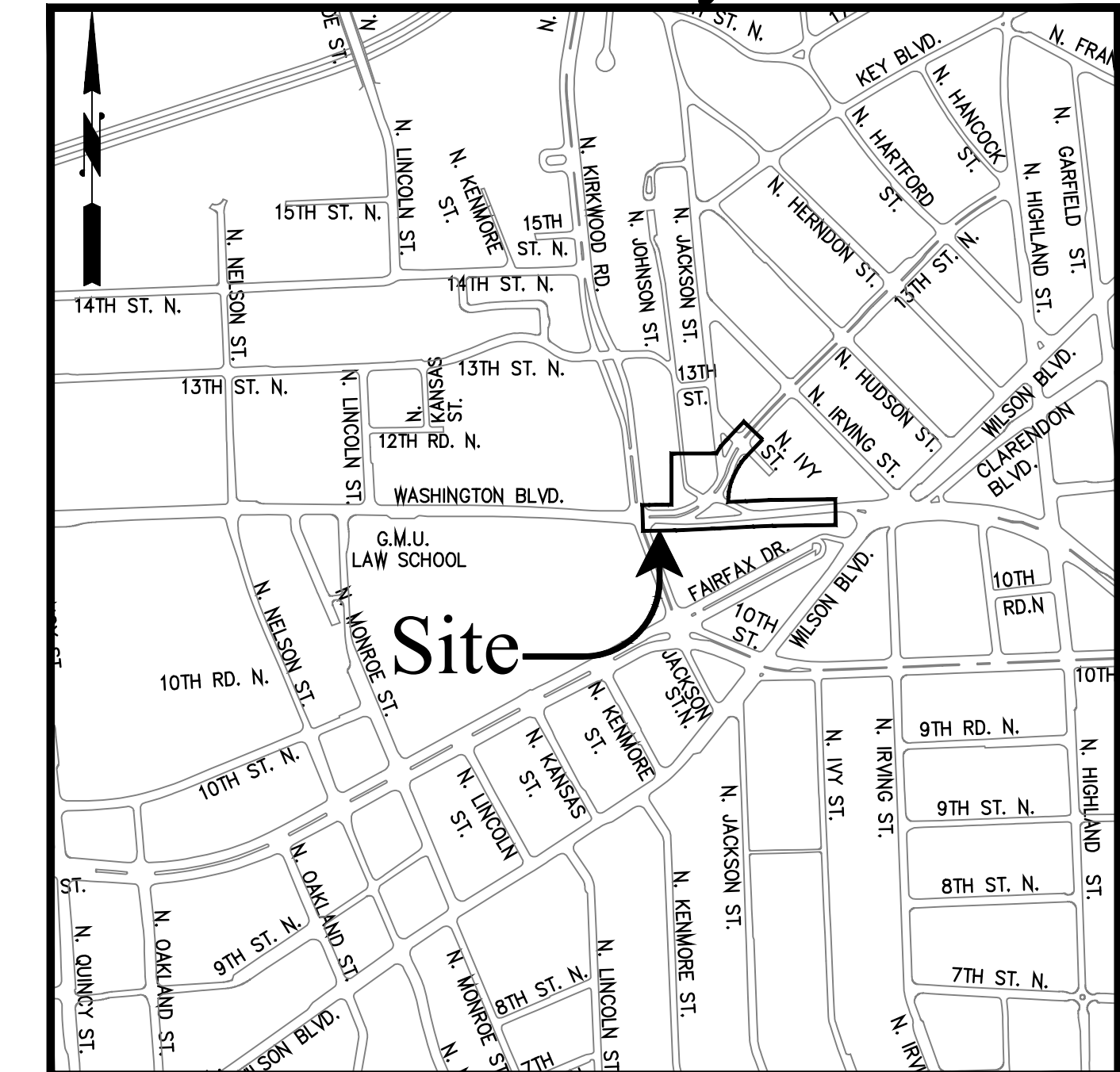
Transportation & Development Division
 Transportation Bureau
 2100 Clarendon Boulevard, Suite 900, Arlington, VA 22201
 Phone: 703.228.3344 Fax: 703.228.7548 www.arlingtonva.us

CONTRACTOR
TO BE DETERMINED

Location Map

Scale: 1"=600'

Vicinity



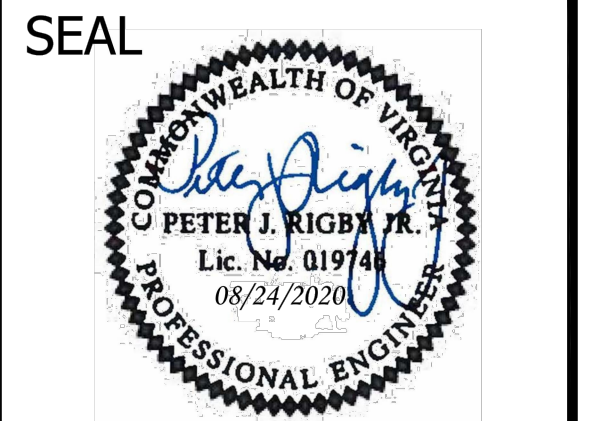
Construction Plans For: WASHINGTON BLVD. & 13TH STREET NORTH IMPROVEMENTS WASHINGTON BLVD. FROM NORTH KIRKWOOD ROAD TO FAIRFAX DRIVE 13TH STREET NORTH FROM WASHINGTON BLVD. TO NORTH JACKSON STREET & NORTH JOHNSON STREET FROM 13TH STREET NORTH TO 150' WEST

Project Number: RB02



DEPARTMENT OF
ENVIRONMENTAL SERVICES
 FACILITIES & ENGINEERING DIVISION
 ENGINEERING BUREAU
 2100 CLARENDON BOULEVARD, SUITE 813
 ARLINGTON, VA 22201
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APPROVALS	DATE
<i>Amy Pflaum</i>	9/11/2020
QUALITY CONTROL ENGINEER	
<i>Kamal Taktak</i>	8.31.20
CONSTRUCTION MANAGEMENT SUPERVISOR	
<i>Jeff</i>	09.16.2020
WATER, SEWER, STREETS BUREAU CHIEF	
<i>Dennis M. Leach</i>	09/11/20
TRANSPORTATION DIRECTOR	
<i>Gabriela Koch</i>	August 24, 2020
PROJECT MANAGER	

REVISIONS	DATE

General Notes:

GENERAL CONSTRUCTION NOTES

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

STORMWATER AND ENVIRONMENTAL PROTECTION

- THE CONTRACTOR SHALL CONFINE ALL ACTIVITIES AT THE SITE ASSOCIATED WITH CONSTRUCTION ACTIVITIES, TO INCLUDE STORAGE OF EQUIPMENT AND OR MATERIALS, ACCESS TO THE WORK, FORMWORK, ETC. TO WITHIN THE DESIGNATED LIMITS OF DISTURBANCE (LOD).

TREE PROTECTION

- TREES SHALL BE PROTECTED PER THE REQUIREMENTS OF ARLINGTON PARKS & RECREATION STANDARD.

TRAFFIC CONTROL

- CONTRACTOR SHALL NOTIFY THE PROJECT OFFICER AT LEAST 3 WORKING DAYS PRIOR TO DISTURBING ANY EXISTING, OR INSTALLING ANY NEW, TRAFFIC SIGNS, SIGNALS, OR OTHER TRAFFIC CONTROL DEVICES.
- THE CONTRACTOR SHALL PREMARK THE LAYOUT OF ANY PERMANENT TRAFFIC CONTROL STRIPING, INDICATING THE PROPOSED LOCATION AND TYPE OF MARKING TO BE INSTALLED. THE PREMARKING MAY CONSIST OF TYPE D TAPE, CHALK, OR LUMBER CRAYONS. THE CONTRACTOR SHALL ALLOW 3 WORKING DAYS FOR THE INSPECTION AND APPROVAL OF THE PREMARKINGS PRIOR TO PLACING THE PERMANENT MARKINGS.
- THE CONTRACTOR SHALL SUBMIT ANY REQUESTS FOR TEMPORARY "NO PARKING" RESTRICTIONS TO THE PROJECT OFFICER AT LEAST 5 BUSINESS DAYS PRIOR TO THE DESIRED ONSET OF RESTRICTIONS. PRIOR TO A REQUEST FOR THE REMOVAL OF ACCESS TO ANY ADA PARKING SPACE THE CONTRACTOR MUST HAVE MADE PROVISION FOR ALTERNATIVE ADA PARKING AS INDICATED ON THE APPROVED PLAN OR AS DIRECTED BY THE PROJECT OFFICER.
- WHEN THE APPROVED PLAN CALLS FOR THE REMOVAL OF ANY PARKING METER THE CONTRACTOR MUST MAKE A REQUEST TO THE PROJECT OFFICER AT LEAST ONE WEEK IN ADVANCE OF THE DESIRED REMOVAL. THE PROJECT OFFICER WILL THEN COORDINATE THE PARKING METER REMOVAL WITH TRAFFIC ENGINEERING AND OPERATIONS.
- THE CONTRACTOR SHALL PRESERVE ALL BUS STOPS, INCLUDING MAINTAINING ADEQUATE ACCESSIBILITY THROUGH AND ADJACENT TO THE CONSTRUCTION FOR BUSES AND THEIR PASSENGERS. THE CONTRACTOR SHALL NOT CLOSE, RELOCATE, OR OTHERWISE MODIFY A BUS STOP WITHOUT PRIOR REQUEST OF THE PROJECT OFFICER. ANY RELOCATION OR CLOSURE OF A BUS STOP SHALL REQUIRE AT LEAST FOUR WEEKS ADVANCE NOTICE FOR COORDINATION WITH THE COUNTY'S BUS STOP COORDINATOR - 703-228-3049.
- WHEN CONDITIONS WARRANT DUE TO TRAFFIC VOLUMES, PATTERNS, OR SPECIAL EVENTS, THE COUNTY MAY SUSPEND OR OTHERWISE DIRECT THE CONTRACTOR'S ACTIVITIES TO PROTECT THE PUBLIC AND OR THE COUNTY'S TRANSPORTATION NETWORK.

WATER DISTRIBUTION, STORM AND SANITARY SEWER SYSTEMS

- UNLESS OTHERWISE DIRECTED, CONTRACTORS ARE EXPRESSLY PROHIBITED FROM OPERATING ANY WATER VALVES OR APPURTENANCES. CONTRACTORS SHALL SUBMIT ALL REQUESTS FOR VALVE OPERATIONS TO THE PROJECT OFFICER AT LEAST 1 WEEK IN ADVANCE OF THE REQUIRED OPERATION.
- IN THE EVENT OF A WATER OR SEWER EMERGENCY, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE COUNTY'S WATER CONTROL CENTER AT 703-228-6555 AND THE PROJECT OFFICER.
- THE CONTRACTOR SHALL COORDINATE ALL UTILITY SHUTOFFS, DISCONNECTS, AND/OR ABANDONMENT WITH UTILITY OWNER AND PROJECT OFFICER AT LEAST 1 WEEK IN ADVANCE OF THE REQUIRED INTERRUPTION.

FIRE DEPARTMENT NOTES:

- ALL EXISTING FIRE HYDRANTS AND FIRE DEPARTMENT CONNECTIONS SHALL BE MAINTAINED UNOBTURATED AND ACCESSIBLE AT ALL TIMES IN ACCORDANCE WITH SECTIONS 508.5.4 AND 508.5.5 OF THE ARLINGTON COUNTY FIRE PREVENTION CODE.
- ACCESS TO BUILDINGS FOR FIREFIGHTING SHALL BE MAINTAINED AT ALL TIMES. EXISTING FIRE APPARATUS ACCESS ROADS (FIRE LANES) SHALL BE KEPT CLEAR OF OBSTRUCTIONS IN ACCORDANCE WITH SECTION 503.4 OF THE ARLINGTON COUNTY FIRE PREVENTION CODE. ACCESS TO CONSTRUCTION SITES SHALL BE PROVIDED AND MAINTAINED IN ACCORDANCE WITH SECTION 1410 OF THE ARLINGTON COUNTY FIRE PREVENTION CODE.
- IN THE EVENT THAT EXISTING FIRE DEPARTMENT CONNECTIONS OR FIRE APPARATUS ACCESS ROADS (FIRE LANES) MUST BE OBSTRUCTED TO FACILITATE CONSTRUCTION ACTIVITIES, CONTACT THE ARLINGTON COUNTY FIRE DEPARTMENT FIRE PREVENTION OFFICE AT 703-228-4644 TO COORDINATE REVIEW AND APPROVAL OF TEMPORARY FIRE DEPARTMENT CONNECTIONS AND/OR FIRE APPARATUS ACCESS ROADS PRIOR TO CREATING THE OBSTRUCTION.

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Local Review Program- Project Report			
Project Name WASHINGTON BOULEVARD AND 13TH STREET NORTH ROAD IMPROVEMENTS			
Purpose of new building			
Office	N/A	sq. ft	
Retail	N/A	sq. ft	
Residential	N/A	sq. ft	
Other (type: _____)	N/A	sq. ft	
WATER MAIN			
New pipe information (excluding fireline length)			
Length of water main by size:	Size: 12"	Length: 648'	
	Size: 8"	Length: 49'	
	Size: 6"	Length: 36'	
Number of new fire hydrants:	Number: 2		
Number of blow-offs:	Number: N/A		
Abandoned pipe and appurtenance information			
Length of water main by size:	Size: 12"	Length: 669'	
	Size: 8"	Length: 203'	
	Size: 6"	Length: 46'	
Number of fire hydrants:	Number: 2		
Number of blow-offs:	Number: N/A		
Number of water meter connections and size			
Residential (SFD)	Number: N/A	Size: N/A	
Multi-Family	Number: N/A	Size: N/A	
Commercial	Number: N/A	Size: N/A	
Institutional	Number: N/A	Size: N/A	
Fireline	Number: N/A	Size: N/A	
Irrigation	Number: N/A	Size: N/A	
Other (type: _____)	Number: N/A	Size: N/A	
SANITARY SEWER MAIN			
New pipe information			
Length of sanitary sewer by size:	Size: 12"	Length: 116'	
Number of Man Holes:	Number: 3		
Abandoned Pipe Information			
Length of sanitary sewer by size:	Size: 12"/8"	Length: 110/146'	
Number of Man Holes:	Number: 1		
Interceptor Information			
Type:	Grease: N/A	Sand/Oil: N/A	Both: N/A
Location:	Inside: N/A	Outside: N/A	
Size:	N/A		
New Bldg:	Yes: N/A	No: N/A	
Retrofit:	Yes: N/A	No: N/A	

SWM 18-0244

ADT:

Washington Blvd:
 20,000 VEHICLES PER DAY (2014)
 30,000 VEHICLES PER DAY (2034 - Projected)
 DHV: 875 VPH (2014) / 1300 VPH (2034)

Street Classification:

Washington Blvd: Urban Principal Arterial
 13th Street North: Urban Minor Arterial
 North Johnson Street: Urban Minor Arterial

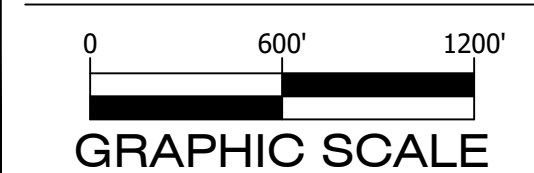
Project Name and Location
WASHINGTON BOULEVARD & 13TH STREET NORTH IMPROVEMENTS

COVER SHEET

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 Drawn: CDL
 Checked: MSD
 Miss Utility Transmittal #: N/A

Filename: 1-COVER1-COVER.DWG
 Path: Q:\DATA\RB02\DESIGN_CD\09100 PCT
 ARCH/REVISED APPROVED PLANS
 Plotted: September 17, 2020
 Plotted by: CL

Scale: AS NOTED



Sheet
1 OF 38

Table with columns for Existing and Proposed symbols and their corresponding descriptions. Includes categories like Sanitary Manhole, Fire Hydrant, Watermain Reducer, Water - Valve, Blowoff Valve, Water - Cross, Water - Tee, Water Meter, Water Cap, Water - Manhole Cover, Siamese Connection, CableTV Pedestal, Electrical Box, Telephone Pedestal, Cobrahead Light, Carlyle Light, Ground Light, Light Pole, Utility Pole, Guy Wire, Utility Cover, Gas Valve, Gas Line Marker, Test Hole, Bollard, Mailbox, Parking Meter, Sign, Traffic Mast Arm Pole, Traffic Pedestrian Pole, Traffic Control Box, Traffic Electrical Box, Traffic Junction Box, Traffic Service Meter, Coniferous Tree, Deciduous Tree, Bush/Hedge/Shrub, Tree Removal, Tree Protection Fencing, Grading Flow Arrow, Construction Notes, Benchmark, Monument (GPS), Monument, Iron Rod Found, Iron Pipe Found, Rebar Rod Found, P.K. Nail Found, Traverse, North Arrow, and Curb Transition.

HATCH LEGEND table with columns for Existing and Proposed hatching patterns and descriptions: PROP MILL & OVERLAY, PROP FULL DEPTH ASPHALT, PROP CONCRETE, REPLACE & MATCH EXISTING DRIVEWAY OR LEADWALK, DEMOLITION AREA.

ARLINGTON COUNTY
DEPARTMENT OF ENVIRONMENTAL SERVICES
WATER & SEWER CONSTRUCTION REQUIREMENTS (REVISED OCTOBER 15, 2012)

- 1. ALL MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH ARLINGTON COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES CONSTRUCTION STANDARDS & SPECIFICATIONS AND SHALL BE APPROVED BY THE DEPARTMENT OF ENVIRONMENTAL SERVICES. UPON PHYSICAL INSPECTION, THE COUNTY RESERVES THE RIGHT TO REJECT THE USE OF ANY MATERIAL FOUND TO BE DEFECTIVE OR NOT CONFORMING TO THE STANDARDS AND SPECIFICATIONS.
- 2. BEFORE START OF CONSTRUCTION, THE DEVELOPER SHALL FURNISH THE FOLLOWING INFORMATION AND/OR EVIDENCE OF COMPLIANCE WITH ALL APPLICABLE REGULATIONS AND LAWS, TO THE ARLINGTON COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES:
 - THE NAME AND ADDRESS OF THE CONTRACTOR HIRED TO WORK ON THE PROJECT. THE CONTRACTOR SHALL BE REGISTERED IN THE COMMONWEALTH OF VIRGINIA. SATISFACTORY EVIDENCE SHALL BE FURNISHED OF THE CONTRACTOR'S PRIOR EXPERIENCE AS PRIME CONTRACTOR IN THE CONSTRUCTION OF WATER MAINS AND/OR SANITARY SEWER INSTALLATIONS. FURTHER, THE CONTRACTOR SHALL FURNISH A LETTER WITH A LIST OF MATERIALS AND SUPPLIERS FOR PROPOSED PROJECT.
 - A RIGHT-OF-WAY PERMIT IS REQUIRED TO WORK IN ARLINGTON COUNTY STREETS. IN INSTANCES OF EXCAVATIONS IN STATE RIGHT OF WAY, THE DATE AND NUMBER OF ALL PERMITS REQUIRED BY THE VIRGINIA DEPARTMENT OF TRANSPORTATION (VDOT) SHALL BE FURNISHED.
 - IF ANY EASEMENTS ARE NEEDED, TWO (2) COPIES OF THE DESCRIPTION OF SUCH EASEMENT, AS ACTUALLY RECORDED, SHALL BE FURNISHED, INCLUDING THE PLACE, DATE AND REFERENCE OF SUCH RECORDATION PRIOR TO PLAN APPROVAL.
 - WRITTEN NOTICE OF TENTATIVE STARTING DATE OF CONSTRUCTION, WHICH SHALL BE A MINIMUM OF ONE (1) WEEK FOLLOWING THE DATE OF NOTICE. IN ADDITION, THE DEVELOPER SHALL FURNISH THE NAMES AND TELEPHONE NUMBERS OF TWO (2) RESPONSIBLE PERSONS WHO CAN BE CONTACTED IN CASE OF EMERGENCY.
 - EXISTING WATER SERVICES MAY BE ALLOWED FOR CONSTRUCTION PURPOSES ONLY WITH PRIOR APPROVAL OF ARLINGTON COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES. IN THESE CASES, INSTALLATION OF A WATER METER FOR "WATER ONLY" USE SHALL BE REQUESTED BY CALLING THE UTILITY SERVICES OFFICE AT (703) 228-6570. THE METER WILL NOT PROVIDED WITHOUT EVIDENCE THAT THE CONTRACTOR HAS INSTALLED AN ASSE-1013 APPROVED, REDUCED-PRESSURE, BACKFLOW PREVENTION (HIGH HAZARD) DEVICE PER THE ARLINGTON COUNTY PLUMBING CODE.
- 3. ALL CONSTRUCTION SHALL BE ACCOMPLISHED FROM APPROVED PLANS, SPECIFICATIONS AND CUT SHEETS SUBMITTED BY A REGISTERED ENGINEER AND APPROVED BY THE COUNTY. TO AVOID CONSTRUCTION DELAYS ALL NECESSARY TEST HOLE INFORMATION SHALL BE OBTAINED PRIOR TO PLAN APPROVAL. WATER MAIN VALVES, METERS AND APPURTENANCES SHALL ONLY BE OPERATED BY ARLINGTON COUNTY WATER PERSONNEL.
- 4. NO EXISTING WATER MAINS, FIRE HYDRANTS, OR SANITARY SEWERS MAY BE TAKEN OUT OF SERVICE OR MADE INACCESSIBLE BY THE CONTRACTOR WITHOUT THE PRIOR APPROVAL FROM THE DEPARTMENT OF ENVIRONMENTAL SERVICES.
- 5. SANITARY SEWER LATERALS ARE PRIVATELY OWNED AND MAINTAINED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATION OF ALL EXISTING LATERALS WITHIN THE LIMITS OF CONSTRUCTION. APPROPRIATE PERMITS AND INSPECTIONS FOR WORK ON ANY LATERALS SHALL BE OBTAINED FROM THE INSPECTION SERVICES DIVISION. ANY LATERALS ABANDONED WITH THE PROJECT SHALL BE CAPPED AT THE SEWER MAIN.
- 6. IN CASES WHERE A PROPOSED SANITARY SEWER IS TO BE CONNECTED TO AN EXISTING SANITARY MANHOLE, THE EXISTING MANHOLE SHALL BE RECONSTRUCTED OR REPLACED BY THE DEVELOPER AS DIRECTED BY THE COUNTY TO MEET THE CURRENT STANDARDS. ALL NEW CONNECTIONS TO THE EXISTING MANHOLES SHALL BE CORE DRILLED WITH BOOT JUST ABOVE THE EXISTING BENCH AND THE FLOW CHANNELS RESHAPED AS NEEDED.
- 7. UPON COMPLETION OF CONSTRUCTION, ALL FINAL TESTS, AS REQUIRED, SHALL BE PERFORMED IN THE PRESENCE OF THE COUNTY'S REPRESENTATIVE. WATER AND SEWER SERVICE CONNECTIONS SHALL NOT BE MADE UNTIL THE WATER AND/OR SEWER MAINS AND APPURTENANCES HAVE BEEN APPROVED AND ACCEPTED BY ARLINGTON COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES. THE CONTRACTOR IS RESPONSIBLE FOR DECHLORINATING ALL CHLORINATED WATER, REGARDLESS OF THE CONCENTRATION. ALL SUPER CHLORINATED WATER REQUIRES A DECHLORINATION PLAN THAT SHALL BE SUBMITTED TO AND APPROVED BY ARLINGTON COUNTY. THIS PLAN SHALL DESCRIBE HOW AND WHERE THE WATER IS TO BE DISCHARGED.
- 8. THE CONTRACTOR SHALL MAINTAIN BACKFILL FOR UTILITY EXCAVATIONS UNTIL ARLINGTON COUNTY HAS FINALLY ACCEPTED THE PROPOSED WATER AND/OR SEWER MAIN. ALSO, ALL SURFACES OVER THE UTILITY EXCAVATIONS SHALL EITHER BE RESTORED TO THE ORIGINAL CONDITION OR FINISHED AS PER THE PROPOSED DESIGN BEFORE THE ACCEPTANCE OF THE PROJECT. PAVEMENT PATCHING FOR UTILITY CUTS IN THE PUBLIC STREETS SHALL BE PERFORMED IN ACCORDANCE WITH ARLINGTON COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES CONSTRUCTION STANDARDS AND SPECIFICATIONS OR AS PER VDOT ROAD AND BRIDGE STANDARDS AND SPECIFICATIONS DEPENDING UPON THE STREET OWNERSHIP. PRIOR TO FINAL PAVING, THE CONTRACTOR SHALL ADJUST ALL EXISTING VALVE BOXES AND SANITARY SEWER MANHOLE FRAME AND COVERS AS PER COUNTY STANDARDS, REMOVE ALL ABANDONED SANITARY MANHOLES AND VALVE BOXES OVER THE ABANDONED WATER MAINS, ABANDON ALL PIPES IN ACCORDANCE WITH COUNTY STANDARDS AND COMPLETE ALL NECESSARY WATER MAIN "CUT AND CAPS."
- 9. UPON COMPLETION, APPROVAL, AND ACCEPTANCE OF WATER AND/OR SEWER MAINS AND APPURTENANCES, THE CONTRACTOR SHALL SUBMIT A TELEVISION INSPECTION AND REPORT ON A DVD IN A COUNTY APPROVED FORMAT. PRIOR TO ANY BOND REDUCTION/RELEASE OR APPROVAL/ACCEPTANCE OF WATER AND/OR SEWER MAINS AND APPURTENANCES, THE DEVELOPER'S REGISTERED ENGINEER SHALL SUBMIT TO ARLINGTON COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES, A SET OF MYLAR TRACINGS AND CD WITH PDF FILE FORMAT THAT SHOWS THE AS-BUILT CONDITIONS PER THE COUNTY STANDARDS AND A SIGNED STATEMENT CONFIRMING THAT THE WORK, AS INDICATED, IS ACCEPTABLE TO THE ENGINEER.
- 10. PRIOR TO THE FINAL ACCEPTANCE OF THE PROJECT, THE DEVELOPER SHALL REQUEST TO THE UTILITY SERVICES IN WRITING FOR THE DISCONTINUATION OF ALL EXISTING WATER SERVICES AT WHICH TIME THE COUNTY WILL REMOVE THE WATER METER AND ISSUE A FINAL BILL. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL EXISTING METER BOXES RELATED TO THE SERVICES BEING DISCONTINUED AND DISCONNECTING EXISTING WATER SERVICES AT THE MAIN BY EXCAVATING, TURNING OFF THE CORPORATION STOP AND DISCONNECTING THE SERVICE FROM THE CORPORATION STOP.

EXISTING STORM TABLE and EXISTING SANITARY TABLE listing various pipe sizes, materials, and elevations (e.g., STM TOP=254.84, SAN TOP=255.09).

EXISTING EASEMENT LEGEND table listing various easement types and their corresponding symbols, including Right-of-Way Acquired, VEPCC Easement, and Building Setback Line.

ARLINGTON VIRGINIA
DEPARTMENT OF ENVIRONMENTAL SERVICES
FACILITIES & ENGINEERING DIVISION
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SEAL: PROFESSIONAL ENGINEER
PETER J. RIGBY, P.E.
Lic. No. 01974
08/24/2020

APPROVALS DATE: 9/11/2020
Amy Pflaum, Quality Control Engineer
Kamal Tabak, Construction Management Supervisor (8.31.20)
Dennis M. Leach, Water, Sewer, Streets Bureau Chief (09.16.2020)
Gabriela Koch, Transportation Director (August 24, 2020)
Project Manager

REVISIONS DATE: [Table with multiple blank rows]

WASHINGTON BOULEVARD & 13TH STREET NORTH IMPROVEMENTS
LEGEND AND NOTES SHEET

Project Name and Location

Designed: ABB
Drawn: CDI
Checked: MSD
Miss Utility Transmittal #: N/A
Filename: 2LEGEN-NEW2-LEGEN-NEW.DWG
Path: O:\DATA\B02\3 DESIGN_CAD\90100 PCT
(ARCHIVE/REVISED APPROVED PLANS)
Plotted: September 17, 2020
Plotted by: CL
Scale: AS NOTED

Sheet 2 OF 38

GENERAL NOTES:

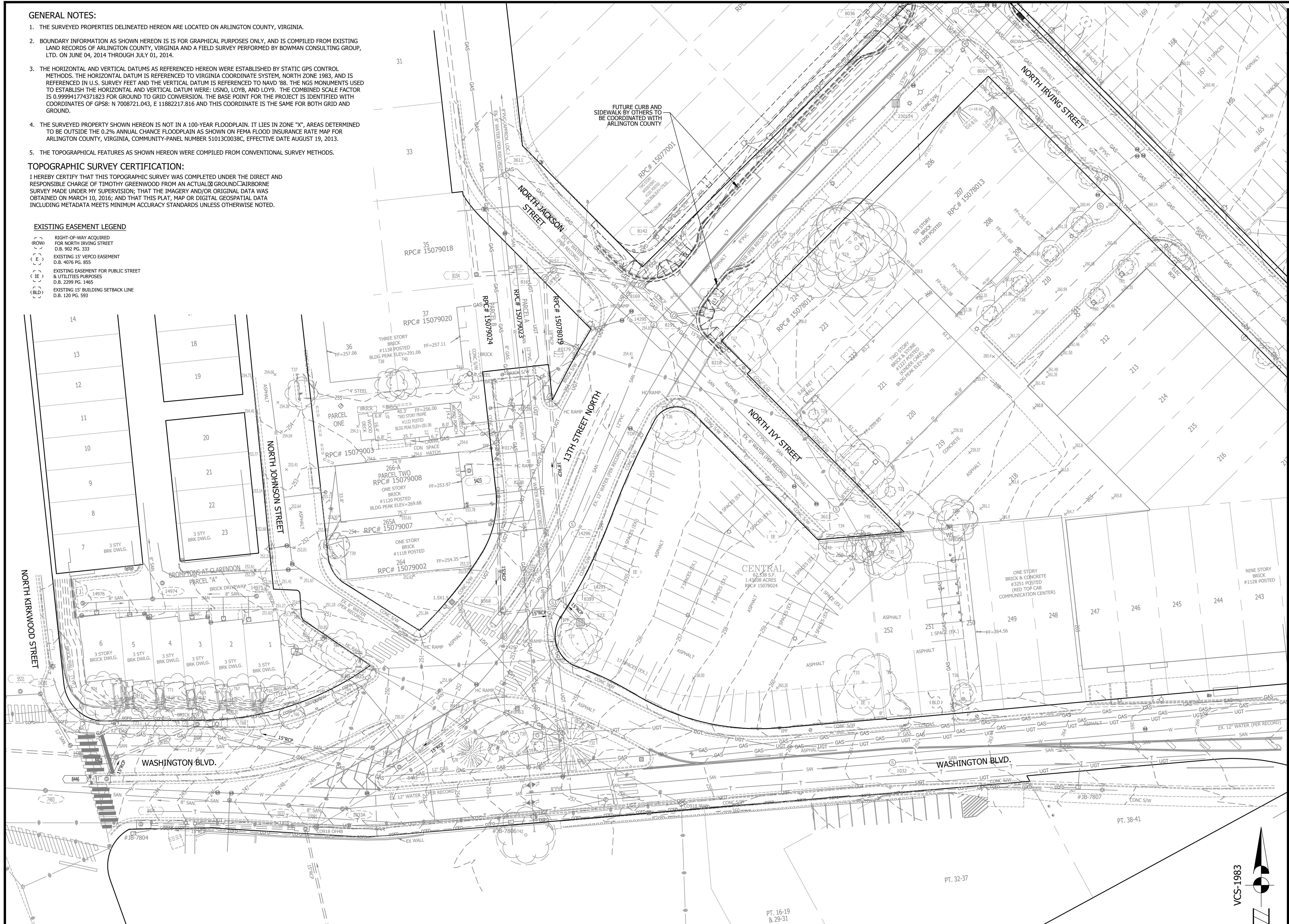
1. THE SURVEYED PROPERTIES DELINEATED HEREON ARE LOCATED ON ARLINGTON COUNTY, VIRGINIA.
2. BOUNDARY INFORMATION AS SHOWN HEREON IS FOR GRAPHICAL PURPOSES ONLY, AND IS COMPILED FROM EXISTING LAND RECORDS OF ARLINGTON COUNTY, VIRGINIA AND A FIELD SURVEY PERFORMED BY BOWMAN CONSULTING GROUP, LTD. ON JUNE 04, 2014 THROUGH JULY 01, 2014.
3. THE HORIZONTAL AND VERTICAL DATUMS AS REFERENCED HEREON WERE ESTABLISHED BY STATIC GPS CONTROL METHODS. THE HORIZONTAL DATUM IS REFERENCED TO VIRGINIA COORDINATE SYSTEM, NORTH ZONE 1983, AND IS REFERENCED IN U.S. SURVEY FEET AND THE VERTICAL DATUM IS REFERENCED TO NAVD 88. THE NGS MONUMENTS USED TO ESTABLISH THE HORIZONTAL AND VERTICAL DATUM WERE: USNO, LOV9, AND LOV9. THE COMBINED SCALE FACTOR IS 0.999941774371823 FOR GRID CONVERSION. THE BASE POINT FOR THE PROJECT IS IDENTIFIED WITH COORDINATES OF GPSS: N 7008721.043, E 11882217.816 AND THIS COORDINATE IS THE SAME FOR BOTH GRID AND GROUND.
4. THE SURVEYED PROPERTY SHOWN HEREON IS NOT IN A 100-YEAR FLOODPLAIN. IT LIES IN ZONE "X", AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN AS SHOWN ON FEMA FLOOD INSURANCE RATE MAP FOR ARLINGTON COUNTY, VIRGINIA, COMMUNITY-PANEL NUMBER 51013C0038C, EFFECTIVE DATE AUGUST 19, 2013.
5. THE TOPOGRAPHICAL FEATURES AS SHOWN HEREON WERE COMPILED FROM CONVENTIONAL SURVEY METHODS.

TOPOGRAPHIC SURVEY CERTIFICATION:

I HEREBY CERTIFY THAT THIS TOPOGRAPHIC SURVEY WAS COMPLETED UNDER THE DIRECT AND RESPONSIBLE CHARGE OF TIMOTHY GREENWOOD FROM AN ACTUAL & GROUND/AIRBORNE SURVEY MADE UNDER MY SUPERVISION; THAT THE IMAGERY AND/OR ORIGINAL DATA WAS OBTAINED ON MARCH 10, 2016; AND THAT THIS PLAT, MAP OR DIGITAL GEOSPATIAL DATA INCLUDING METADATA MEETS MINIMUM ACCURACY STANDARDS UNLESS OTHERWISE NOTED.

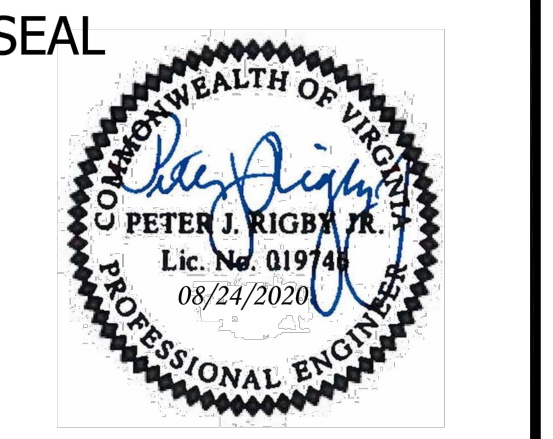
EXISTING EASEMENT LEGEND

- (ROW) RIGHT-OF-WAY ACQUIRED FOR NORTH IRVING STREET D.B. 902 PG. 333
- (VE) EXISTING 15' VEPCO EASEMENT D.B. 4076 PG. 855
- (IE) EXISTING EASEMENT FOR PUBLIC STREET & UTILITIES PURPOSES D.B. 2299 PG. 1465
- (BLD) EXISTING 15' BUILDING SETBACK LINE D.B. 120 PG. 593



DEPARTMENT OF ENVIRONMENTAL SERVICES
 FACILITIES & ENGINEERING DIVISION
 ENGINEERING BUREAU
 2100 CLARENDON BOULEVARD, SUITE 813
 ARLINGTON, VA 22201
 PHONE: 703.228.3629
 FAX: 703.228.3606

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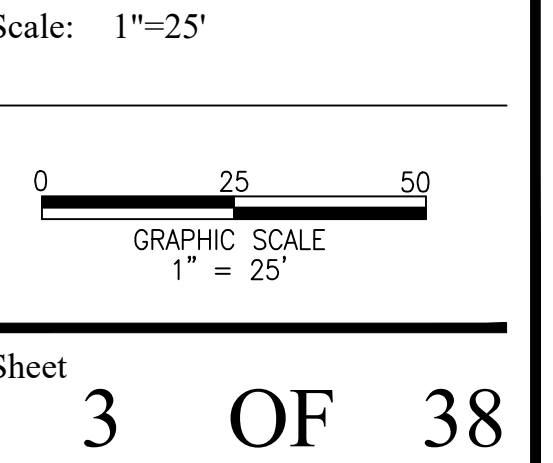


APPROVALS	DATE
<i>Amy Pflaum</i> QUALITY CONTROL ENGINEER	9/11/2020
<i>Kamal Takab</i> CONSTRUCTION MANAGEMENT SUPERVISOR	8.31.20
<i>[Signature]</i> WATER, SEWER, STREETS BUREAU CHIEF	09.16.2020
<i>Donnie M. Leach</i> TRANSPORTATION DIRECTOR	09/11/20
<i>Gabriela Koch</i> PROJECT MANAGER	August 24, 2020

REVISIONS	DATE

Project Name and Location
WASHINGTON BOULEVARD & 13TH STREET NORTH IMPROVEMENTS
 EXISTING CONDITIONS PLAN

Designed: ABB
 Drawn: CDL
 Checked: MSD
 Miss Utility Transmittal #: N/A
 Filename: 3-EXISTING CONDITIONS-EXISTING CONDI
 Path: Q:\DATAR023\DESIGN_CD\090100.PCT
 Plotted: September 17, 2020
 Plotted by: CL



EROSION AND SEDIMENT CONTROL LEGEND

Legend table with symbols and codes for Storm Drain Inlet Protection (IP), Silting Fence (SF), Tree Protection (TP), Safety Fence (SAF), Root Pruning (RP), and Limits of Disturbance.

* NOTE: PROTECT TREES DURING CONSTRUCTION OF PROPOSED WORK AS SHOWN. CALL URBAN FORESTER (702-228-8557) PRIOR TO BEGINNING WORK ADJACENT TO TREE. PROCEED WITH WORK AS DIRECTED BY THE ENGINEER IF ANY CONFLICT ARISES WITH PROPOSED WORK.

IMPERVIOUS AND PERVIOUS AREA TABLE with columns for Pre-development and Post-development areas.

GENERAL EROSION AND SEDIMENT CONTROL NOTES

- 1. UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CONSTRUCTED AND MAINTAINED ACCORDING TO THE MINIMUM STANDARDS AND SPECIFICATIONS OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK AND VIRGINIA REGULATIONS VR 625-02-00 EROSION AND SEDIMENT CONTROL REGULATIONS.

GENERAL LAND CONSERVATION NOTES

- 1. NO DISTURBED AREA WILL REMAIN DENUDED FOR MORE THAN 7 CALENDAR DAYS UNLESS OTHERWISE AUTHORIZED BY THE DIRECTOR OR HIS AGENT.

PROJECT DESCRIPTION:

THIS PROJECT CONSISTS OF REMOVING, REPLACING AND/OR INSTALLING CURB & GUTTER, PAVEMENT, WATERLINE, SANITARY PIPES & STRUCTURES, STORM SEWER PIPES & STRUCTURES, CONCRETE SIDEWALKS, DRIVEWAY APRONS, MEDIANS, ADA COMPLIANT CURB CUT RAMP AND INSTALLING NEW SIGNALS AND STREET LIGHTS.

EXISTING SITE CONDITIONS:

THE HIGHEST POINT WITHIN THE LIMITS OF WORK IS THE SOUTHEAST CORNER OF THE PROJECT AREA ALONG WASHINGTON BLVD. THE PROJECT AREA GENERALLY DRAINS SOUTHWEST TOWARDS THE INTERSECTION OF WASHINGTON BLVD. AND N. KIRKWOOD STREET.

ADJACENT PROPERTIES:

COMMERCIAL & MIX-USED PROPERTIES ARE LOCATED ON EITHER SIDE OF 13TH STREET NORTH & WASHINGTON BLVD FOR THEIR LENGTH WITHIN THE PROJECT LIMITS.

OFF-SITE AREAS:

OFFSITE CONSTRUCTION IS PROPOSED IN 2 EXISTING PARCELS WHERE THE NEW CONNECTING STREET THAT WILL BE PROVIDED BETWEEN THE EXISTING N. JOHNSON STREET TO EXISTING 13TH STREET NORTH IS LOCATED.

CRITICAL AREAS:

THERE ARE NO STEEP SLOPES OR CRITICAL AREAS LOCATED IN THE AREAS TO BE DISTURBED.

EROSION AND SEDIMENT CONTROL MEASURES:

THE EROSION AND SEDIMENT CONTROL MEASURES FOR THIS PROJECT AREA INCLUDE SILT FENCE, INLET PROTECTION, AND TREE PROTECTION/REMOVAL. INLET PROTECTION MAY BE REQUIRED OUTSIDE THE PROJECT LIMITS WHEN WATER FROM DISTURBED AREA WILL FLOW OFFSITE.

SILT FENCE - SILT FENCE SEDIMENT BARRIERS WILL BE INSTALLED DOWNSLOPE OF AREAS WITH MINIMAL GRADES TO FILTER SEDIMENT LADEN RUNOFF FROM SHEET FLOW AS INDICATED ON THE EROSION & SEDIMENT CONTROL PLAN.

INLET PROTECTION - ALL STORM SEWER INLETS SHALL BE PROTECTED DURING CONSTRUCTION. SEDIMENT LADEN WATER SHALL BE FILTERED BEFORE ENTERING THE STORM SEWER INLETS.

TREE PROTECTION FENCING - ALL TREES EXISTING TO REMAIN SHALL BE SURROUNDED BY TREE PROTECTION FENCING TO PREVENT DISTURBANCE WITHIN THE CRITICAL ROOT ZONE.

PERMANENT STABILIZATION:

ALL OF THE AREA DISTURBED WITH THIS PLAN WILL BE PERMANENTLY STABILIZED. ALL UNPAVED AREAS WILL BE STABILIZED WITH GRASS OR MULCH.

STORMWATER RUNOFF CONSIDERATIONS:

THE EXISTING STORM SEWER SYSTEM WILL BE USED TO DRAIN THE STORMWATER RUNOFF. COMPUTATIONS LOCATED ON SHEET 9D SHOW THAT THE PROPOSED IMPROVEMENTS WILL NOT FLOOD THE EXISTING STORM SEWER SYSTEM IN A 10 YEAR STORM EVENT.

EROSION & SEDIMENT CONTROL PROGRAM:

- 1. THE EROSION CONTROL PLAN IS INTENDED TO ESTABLISH ENTRANCES AND PERIMETER CONTROL MEASURES WHICH INCLUDES SILT FENCE (SF), INLET PROTECTION (IP), AND OTHER CONTROLS SPECIFIED ON THE PLANS.

MAINTENANCE PROGRAM:

THE FOLLOWING IS A PROGRAM OF MAINTENANCE FOR THE MECHANICAL CONTROLS SPECIFIED IN THIS NARRATIVE AND ON THE PLAN:

- 1. THE SITE SUPERINTENDENT OR HIS/HER REPRESENTATIVE SHALL MAKE A VISUAL INSPECTION OF ALL MECHANICAL CONTROLS AND NEWLY STABILIZED AREA (I.E. SEEDED AND MULCHED AND/OR SODDED AREAS) ON A DAILY BASIS; ESPECIALLY AFTER A HEAVY RAINFALL EVENT TO INSURE THAT ALL CONTROLS ARE MAINTAINED AND PROPERLY FUNCTIONING.

TEMPORARY SEEDING:

SEE SHEET III-288 OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK (VESCH) FOR ALLOWABLE PLANTING MATERIAL, SEEDING RATES, AND DATES. THE REQUIREMENTS OF THE "SOUTH" PLANTING REQUIREMENTS SHALL BE FOLLOWED.

PERMANENT SEEDING:

THE SUBJECT SITE IS LOCATED IN THE COASTAL PLAIN AREA OF VIRGINIA, SO SHEET III-304 OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK SHALL BE FOLLOWED FOR FINAL SEEDING MATERIAL, SEEDING RATES, AND DATES OF APPLICATION.

SODDING:

SODDED AREAS SHALL BE BROUGHT TO FINAL GRADE IN ACCORDANCE WITH THE APPROVED PLANS. SOIL TEST SHOULD BE MADE TO DETERMINE THE EXACT REQUIREMENTS FOR LIME AND FERTILIZER.

DUST CONTROL:

DUST SHALL BE CONTROLLED USING A VARIETY OF METHODS TO INCLUDE VEGETATIVE COVER, MULCH, TILLAGE, IRRIGATION, SPRAY-ON ADHESIVES, STONE, BARRIERS, AND CALCIUM CHLORIDE.

UTILITY INSTALLATION:

UNDERGROUND UTILITY LINES SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING STANDARDS IN ADDITION TO OTHER APPLICABLE CRITERIA:

- 1. NO MORE THAN 500 LINEAR FEET OF TRENCH MAY BE OPENED AT ONE TIME. EXCAVATED MATERIAL SHALL BE PLACED ON THE UP HILL SIDE OF TRENCHES.

TREE PROTECTION:

CALL URBAN FORESTER AT 703-228-1863 72 HOURS BEFORE ANY LAND DISTURBANCE TO DISCUSS AND SCHEDULE INSPECTION OF TREE PROTECTION MEASURES.

SEQUENCE OF CONSTRUCTION OPERATIONS:

GENERALLY, THE FOLLOWING SEQUENCE SHALL BE FOLLOWED PERTAINING TO EROSION AND SEDIMENT CONTROL DEVICES AND PRACTICES:

PHASE 1:

- 1. INSTALL ALL PERIMETER CONTROLS, SUCH AS SILT FENCE, INLET PROTECTION, AND TREE PROTECTION, AS A FIRST STEP PRIOR TO ANY LAND DISTURBING ACTIVITY.

PHASE 2:

- 6. PHASE 1 STRUCTURAL CONTROLS ARE TO REMAIN IN PLACE ONLY UNTIL IMPROVEMENTS ARE TO BE MADE IN THE AREA OF THE CONTROLS.

09/10/2018 date

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

Re: Erosion and Sediment Control Permit Application for:

Washington Blvd from N Kirkwood Rd to Fairfax Dr, 13th St N from Washington Blvd to street address N Johnson St from 13th St N to 150' West

lot, block, section subdivision

permit number

Dear Mrs. Li:

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

- 1. Reviewing the erosion and sedimentation (E&S) plan for the project.

I may be reached at (703) 228-3604 with questions about this plan or my execution of the duties of Responsible Land Disturber.

Sincerely,

Signature of Peter J. Rigby, Jr. with name printed and professional registration information.

Pre-Storm Erosion and Sediment Control Checklist

Per Erosion and Sediment Control General Note 6, the Contractor is responsible for the installation and maintenance of any additional erosion and sediment control (ESC) measures necessary to prevent erosion and sedimentation as determined by the County.

The following actions shall be taken prior to storm events with predicted heavy and/or large volume rainfall to prevent sediment discharges from a construction site.

Perimeter controls

- Silt fence shall be checked for undermining, holes, or deterioration of the fabric. Fencing shall be replaced immediately if the fabric is damaged or worn.

Exposed slopes and soil

- Exposed slopes not at the final stabilization phase shall be covered with tarps, plastic sheeting, or erosion control matting.

Stockpiles

- Stockpiled soil and other loose materials that can be washed away shall be covered with a tarp, plastic sheeting, or other stabilization matting.

Inlet protection

- Inlet protection controls shall be inspected to ensure they are functioning properly and flooding will not occur.

In addition to these pre-storm actions, all erosion and sediment control (ESC) measures must be checked daily and after each significant rainfall.

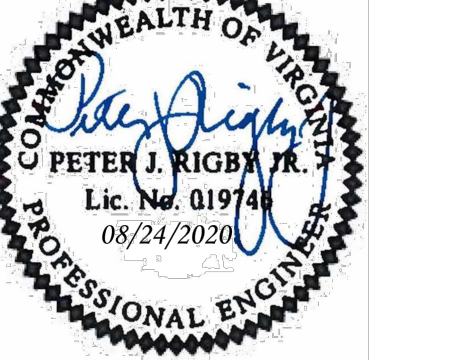


DEPARTMENT OF ENVIRONMENTAL SERVICES FACILITIES & ENGINEERING DIVISION ENGINEERING BUREAU 2100 CLARENDON BOULEVARD, SUITE 813 ARLINGTON, VA 22201

PHONE: 703.228.3629 FAX: 703.228.3606

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SEAL



APPROVALS DATE

Approval table with names and dates for Amy Pfaff, Kamal Taktak, Dennis W. Leach, and Gabriela Kock.

REVISIONS DATE

Empty table for revisions and dates.

WASHINGTON BOULEVARD & 13TH STREET NORTH IMPROVEMENTS EROSION & SEDIMENT CONTROL NOTES

Project Name and Location

Designed: ABB Drawn: CDL Checked: MSD Miss Utility Transmittal #: N/A

Filename: 4-E&S NOTES4-E&S NOTES.DWG Path: Q:\DATA\RB203\DESIGN_CADD\100_PCT ARCHIVEREVIEWED APPROVED PLANS Plotted: September 17, 2020

Plotted by: CL

Scale: N/A

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

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

FERTILIZER & LIME

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

NOTE:

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

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

SEED		
LAND USE	SPECIES	APPLICATION PER ACRE
Minimum Care Lawn (Commercial or Residential)	Tall Fescue ¹	95-100%
	Perennial Ryegrass	0-5%
	Kentucky Bluegrass ¹	0-5%
		TOTAL: 175-200 lbs.
High-Maintenance Lawn	Tall Fescue ¹	TOTAL: 200-250 lbs.
General Slope (3:1 or less)	Tall Fescue ¹	128 lbs.
	Red Top Grass or Creeping Red Fescue	2 lbs.
	Seasonal Nurse Crop ²	20 lbs.
		TOTAL: 150 lbs.
Low-Maintenance Slope (Steeper than 3:1)	Tall Fescue ¹	108 lbs.
	Red Top Grass or Creeping Red Fescue	2 lbs.
	Seasonal Nurse Crop ²	20 lbs.
	Crownvetch ³	20 lbs.
		TOTAL: 150 lbs.

1 - When selecting varieties of turfgrass, use the Virginia Crop Improvement Association (VCIA) recommended turfgrass variety list. Quality seed will bear a label indicating that they are approved by VCIA. A current turfgrass variety list is available at the local County Extension office or through VCIK at 804-746-4864 or at <http://sudan.ces.vt.edu/html/Turf/turfpublications/publications2.html>

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

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

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

FERTILIZER & LIME

- Apply 10-20-10 fertilizer at a rate of 500 lbs. / acre (or 12 lbs. / 1,000 sq. ft.)
- Apply Pulverized Agricultural Limestone at a rate of 2 tons/acre (or 90 lbs. / 1,000 sq. ft.)

NOTE:

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

Note: When specifying/ordering grates, refer to "Choosing the proper inlet grate" on pages 117-118. For a complete listing of FREE OPEN AREAS AND WEIR PERIMETERS of all NEENAH grates, refer to pages 308-311.

R-4900 and R-4900 Series Heavy Duty Trench

Materials: All frames and grates are furnished standard in Gray Iron, Class 35-B for heavy-duty use. For extra heavy-duty use or superior durability requirements, see our Alloy and Cast Steel Series on page 188 and our R-4900 & R-4900 Series on page 200. Neenah recommends project designers avoid the use of light duty trench installations because it is likely that applications will be subjected to heavy delivery vehicle traffic at some time. Furthermore, the use of a site could be changed to heavy duty use patterns at some unanticipated future date.

Dimensions in inches

Un-Bolted Catalog No.	Bolted Catalog No.	A	B	C	Type A	Type C	Type D	Type E	Type P	Type Q
R-4900-AX	R-4900-AX	8	11/2	6	x	x	x	x	x	x
R-4900-BX	R-4900-BX	12	11/2	10	x	x	x	x	x	x
R-4900-CX	R-4900-CX	12	11/2	15	x	x	x	x	x	x
R-4900-DX	R-4900-DX	18	11/2	15	x	x	x	x	x	x
R-4900-EX	R-4900-EX	17	11/2	15	x	x	x	x	x	x
R-4900-FX	R-4900-FX	23	11/2	21	x	x	x	x	x	x
R-4900-GX	R-4900-GX	23	11/2	21	x	x	x	x	x	x
R-4900-HX	R-4900-HX	23	11/2	21	x	x	x	x	x	x
R-4900-JX	R-4900-JX	30	2	27	x	x	x	x	x	x
R-4900-KX	R-4900-KX	30	2	30	x	x	x	x	x	x
R-4900-LX	R-4900-LX	36	2	33	x	x	x	x	x	x
R-4900-MX	R-4900-MX	36	2	36	x	x	x	x	x	x
R-4900-NX	R-4900-NX	45	2	42	x	x	x	x	x	x
R-4900-XX	R-4900-XX	51	2	48	x	x	x	x	x	x

* - Inductive availability

Illustrating Type C bolted trench. Bolted trench sections are furnished in 24" standard lengths. When bolted trench is furnished, they are shipped assembled. If they are not, the units are disassembled during installation. When removing covers, do not use or utilize 180 degrees or other tools which may cause alignment and improper bearing may occur.

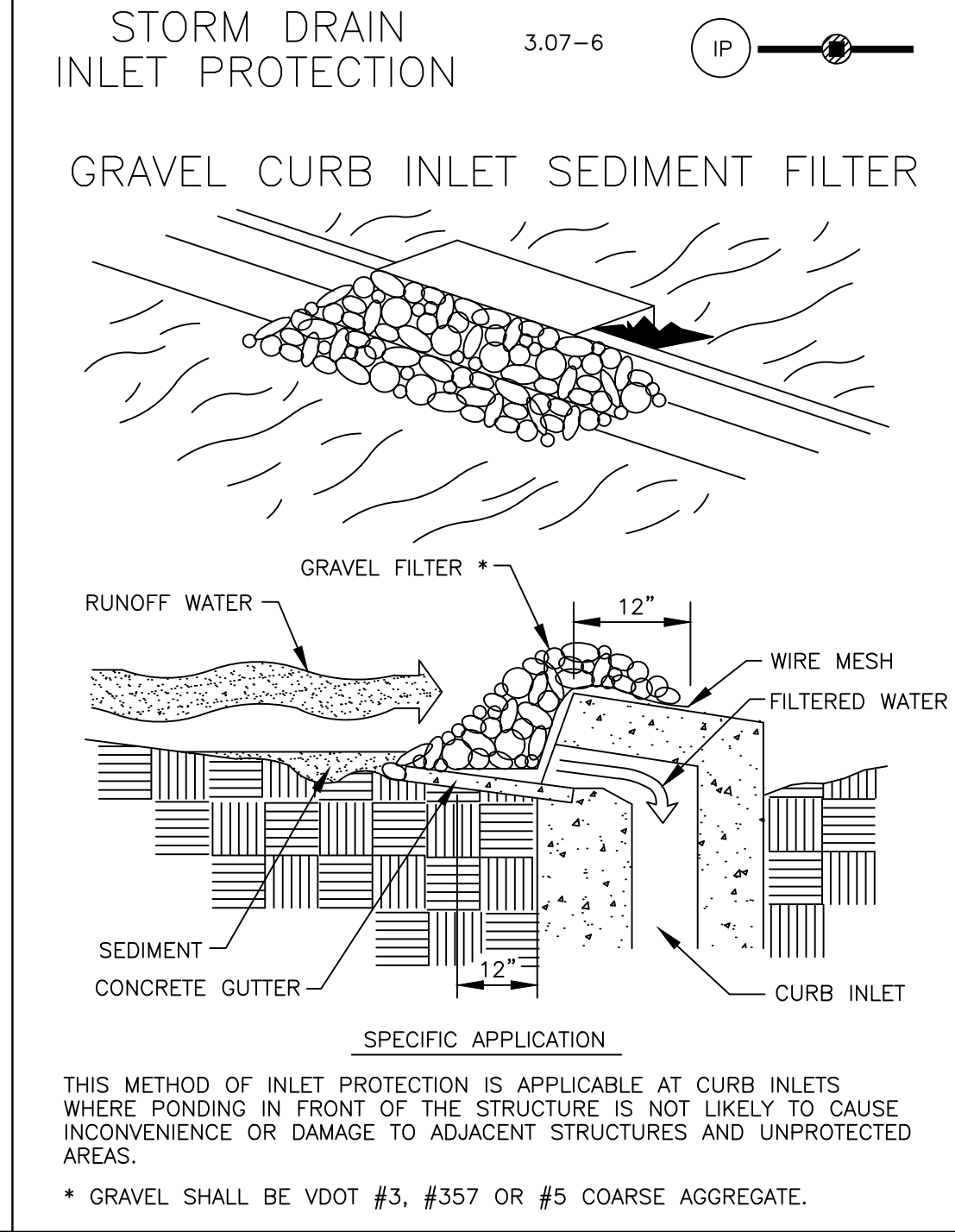
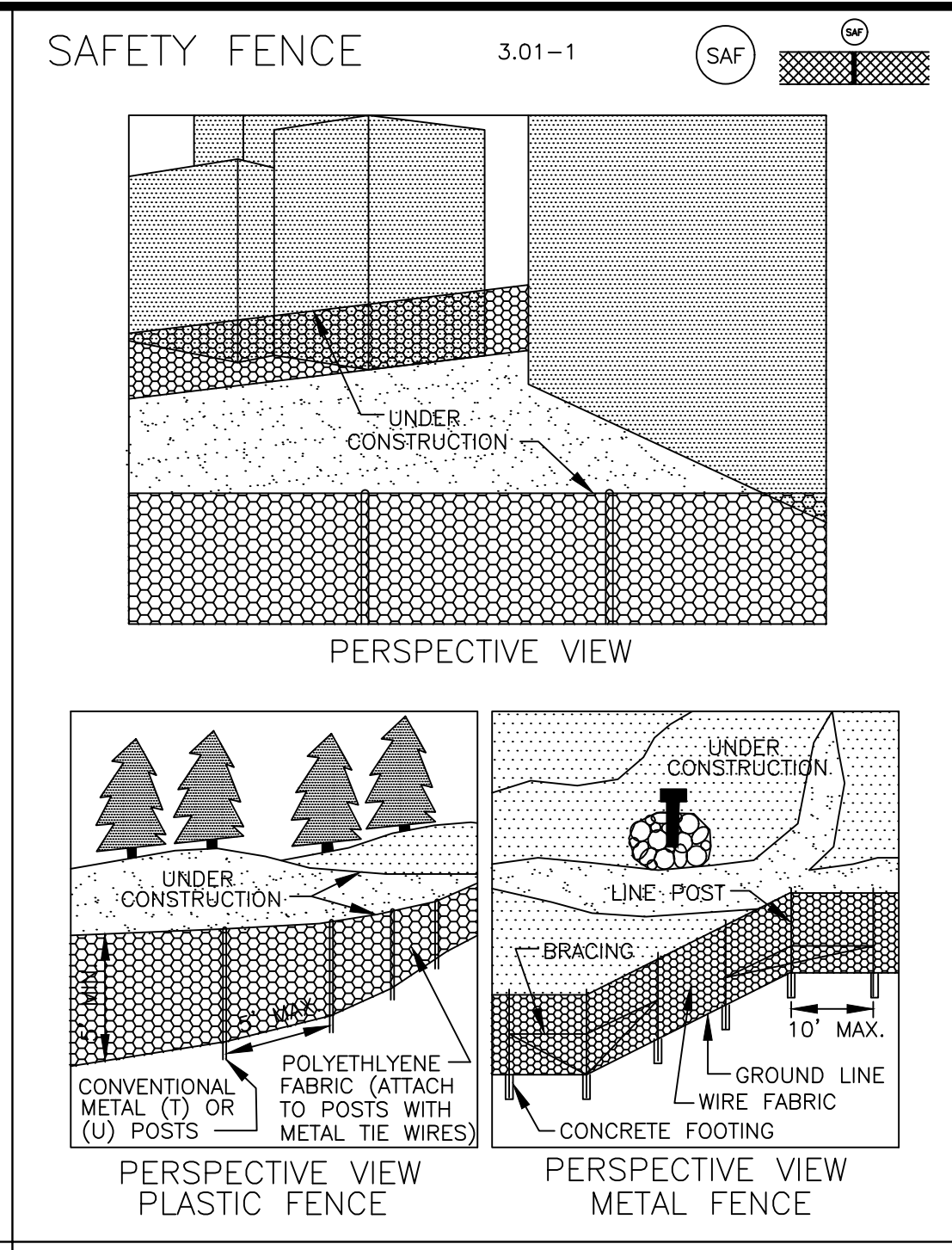
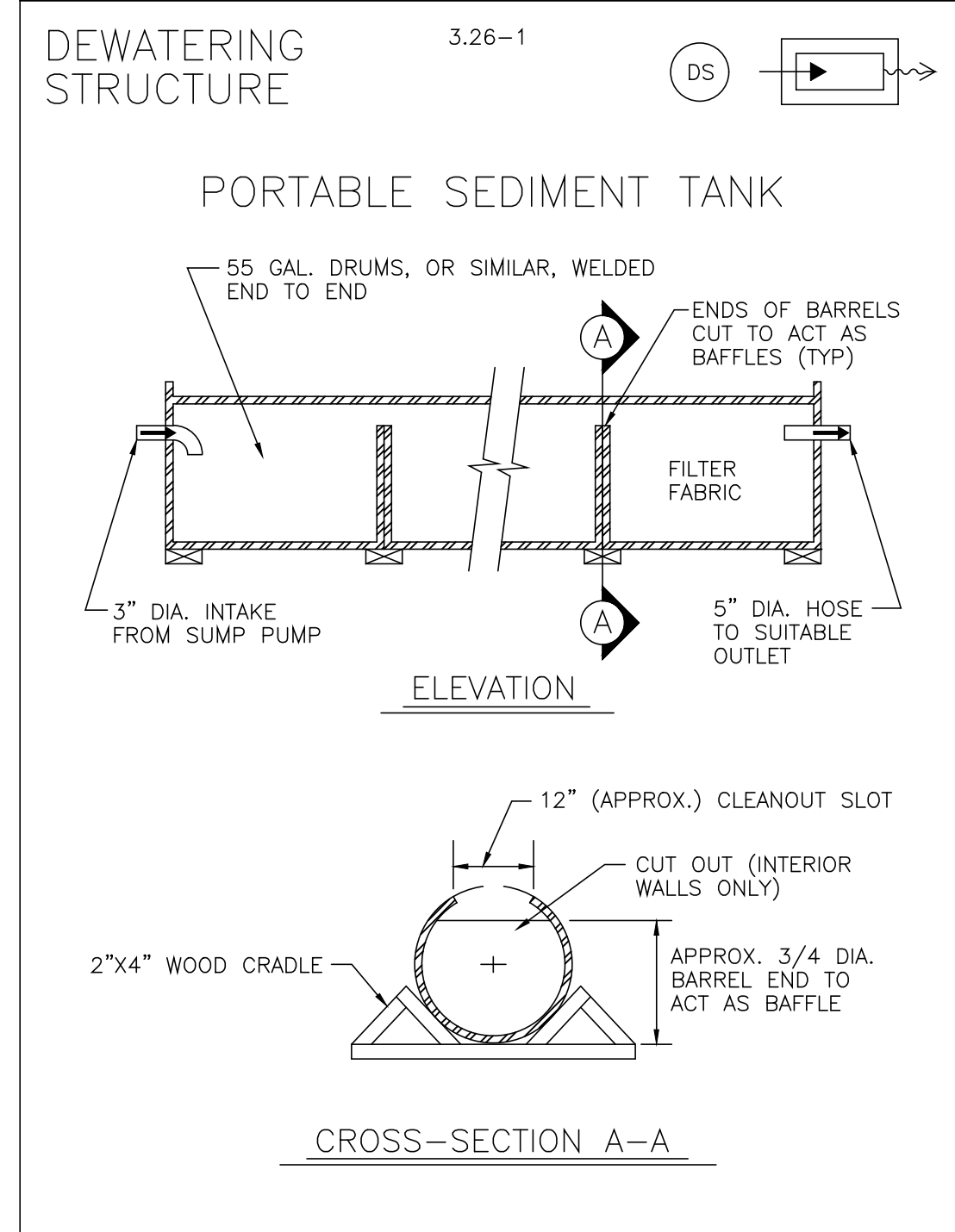
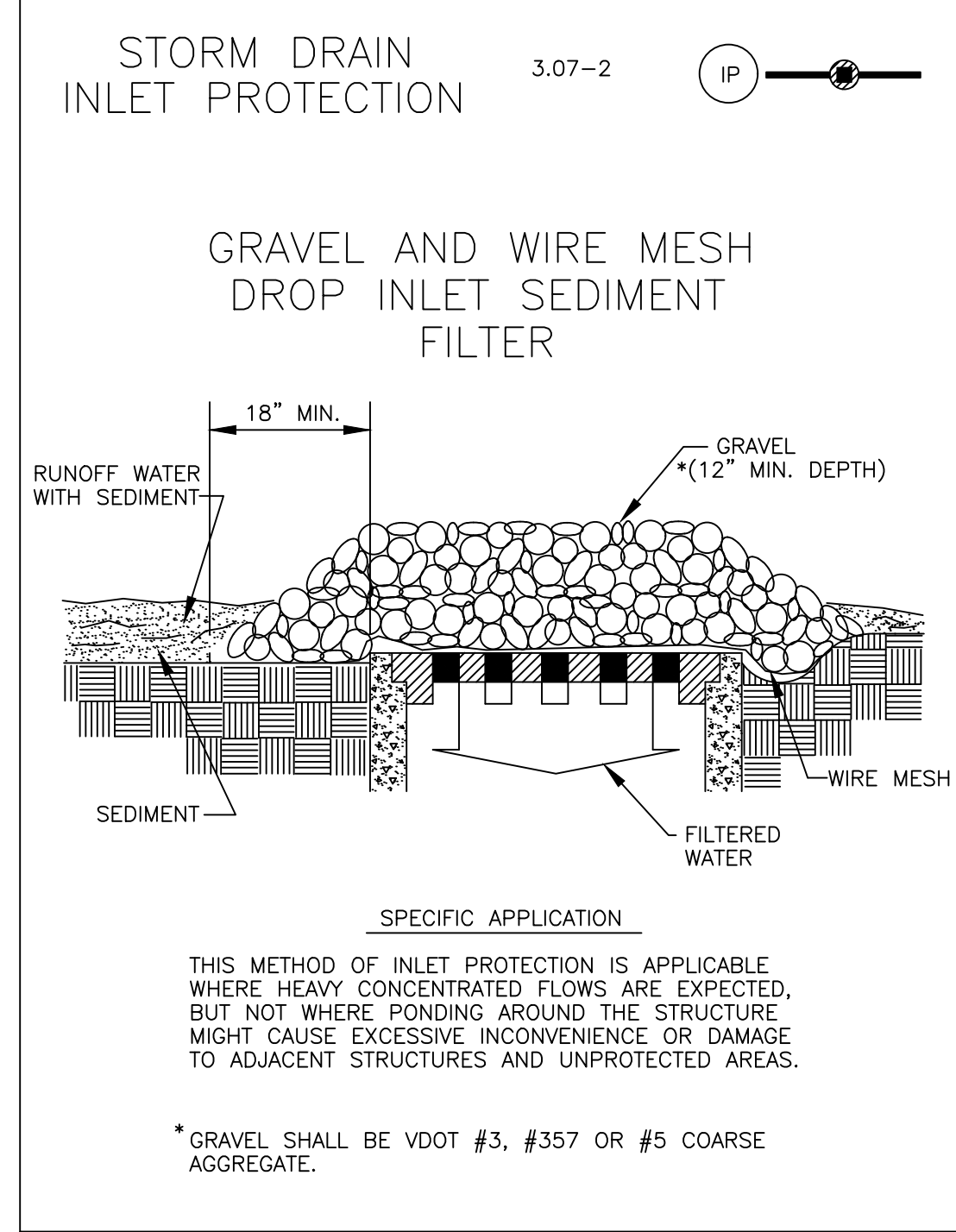
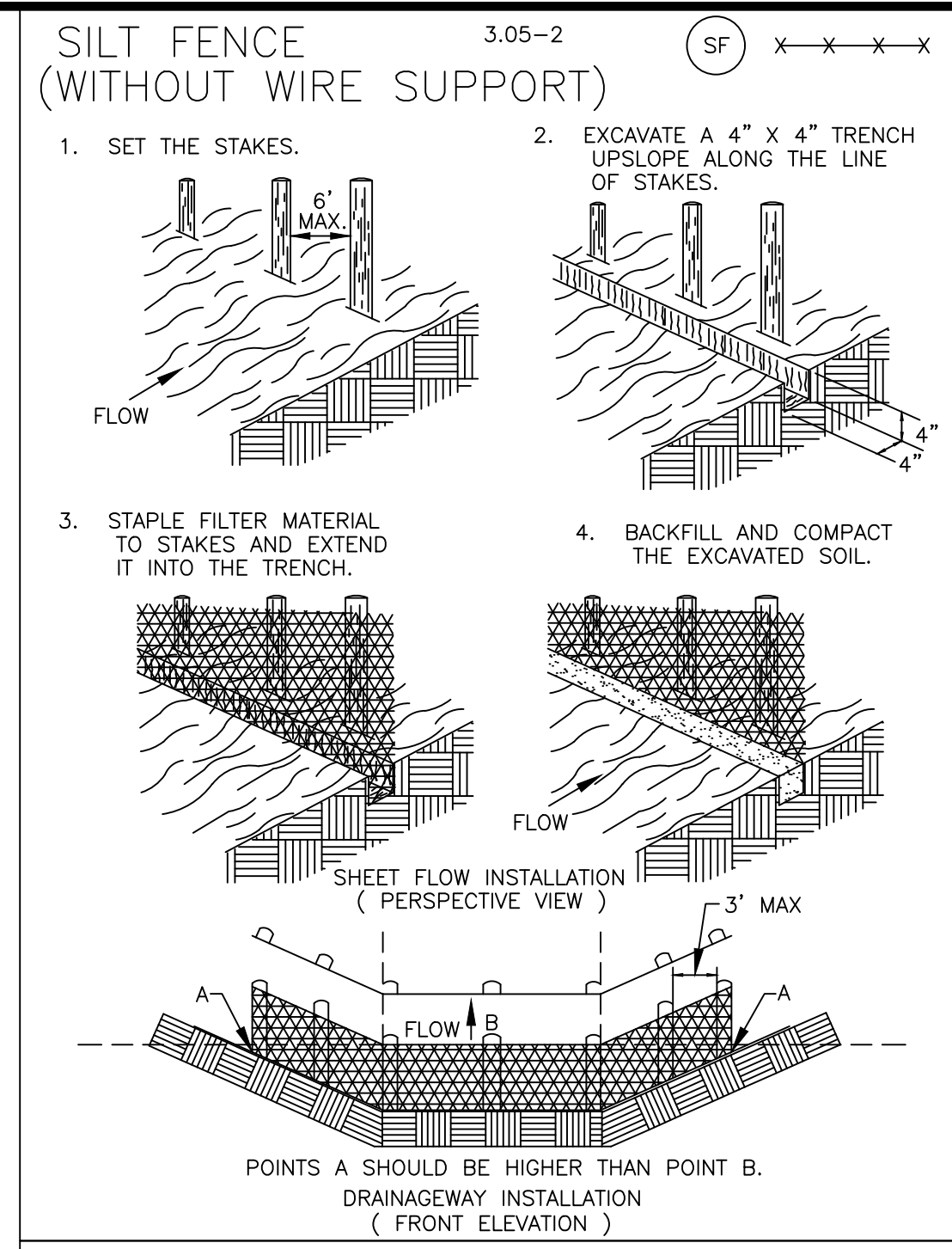
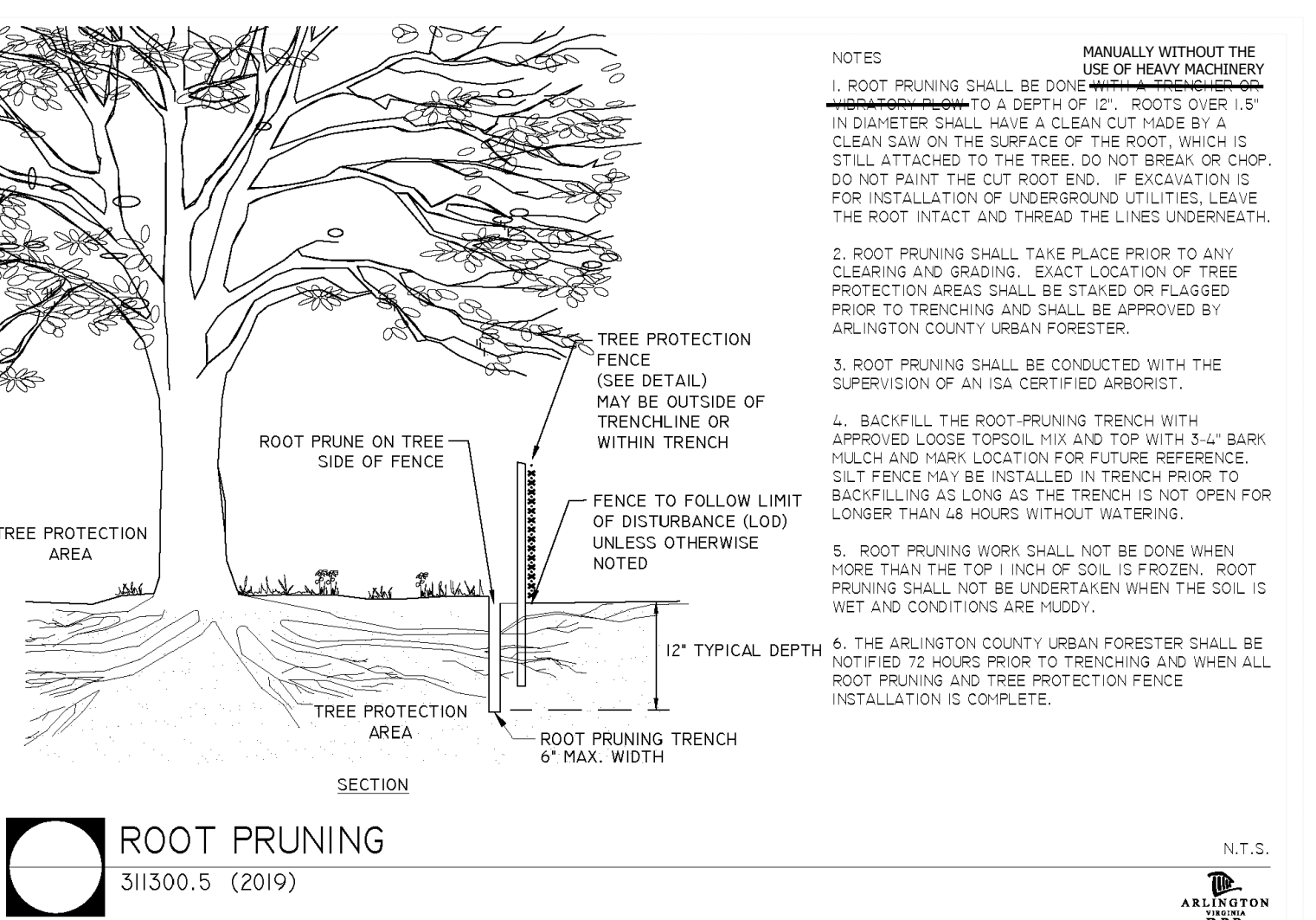
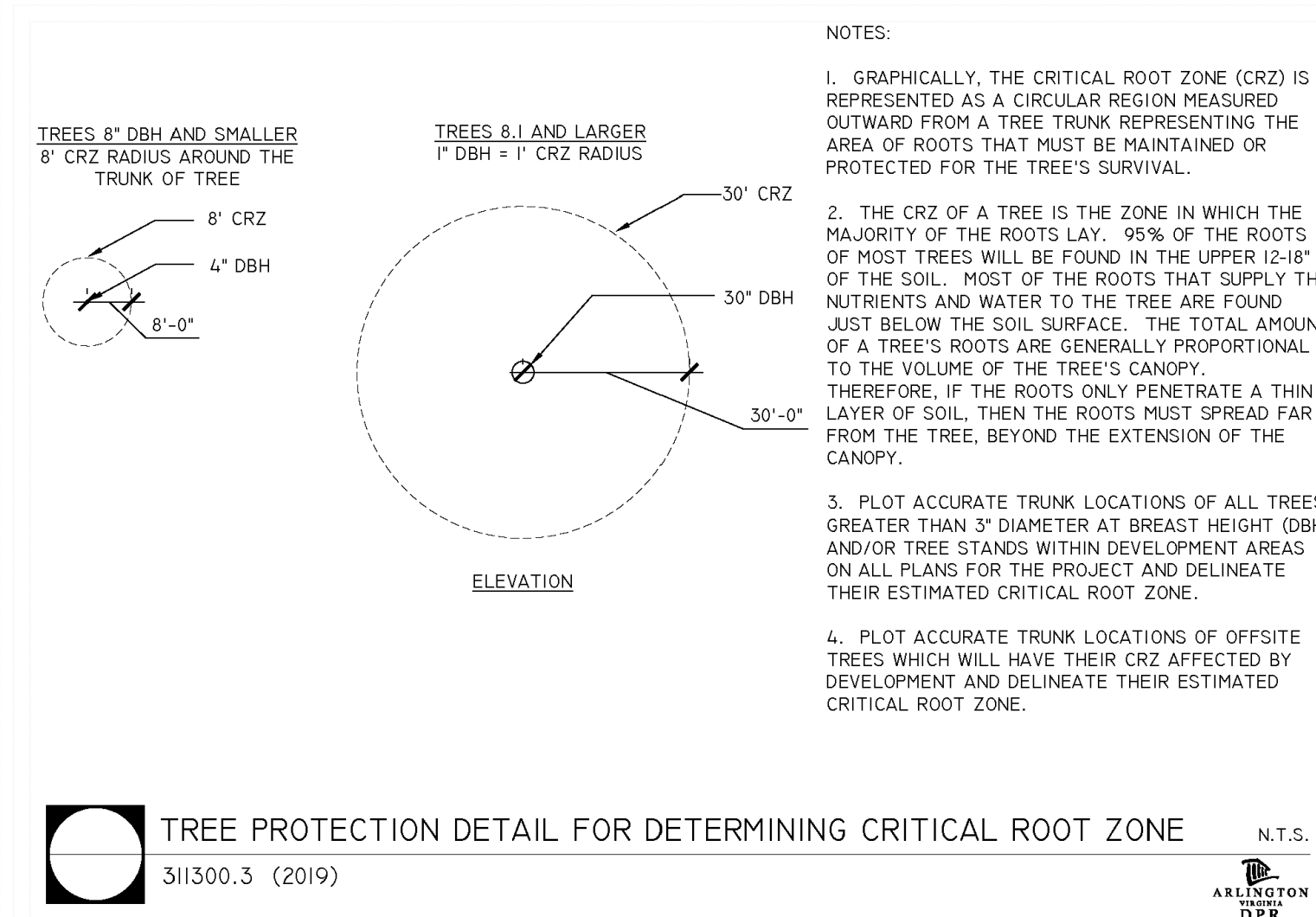
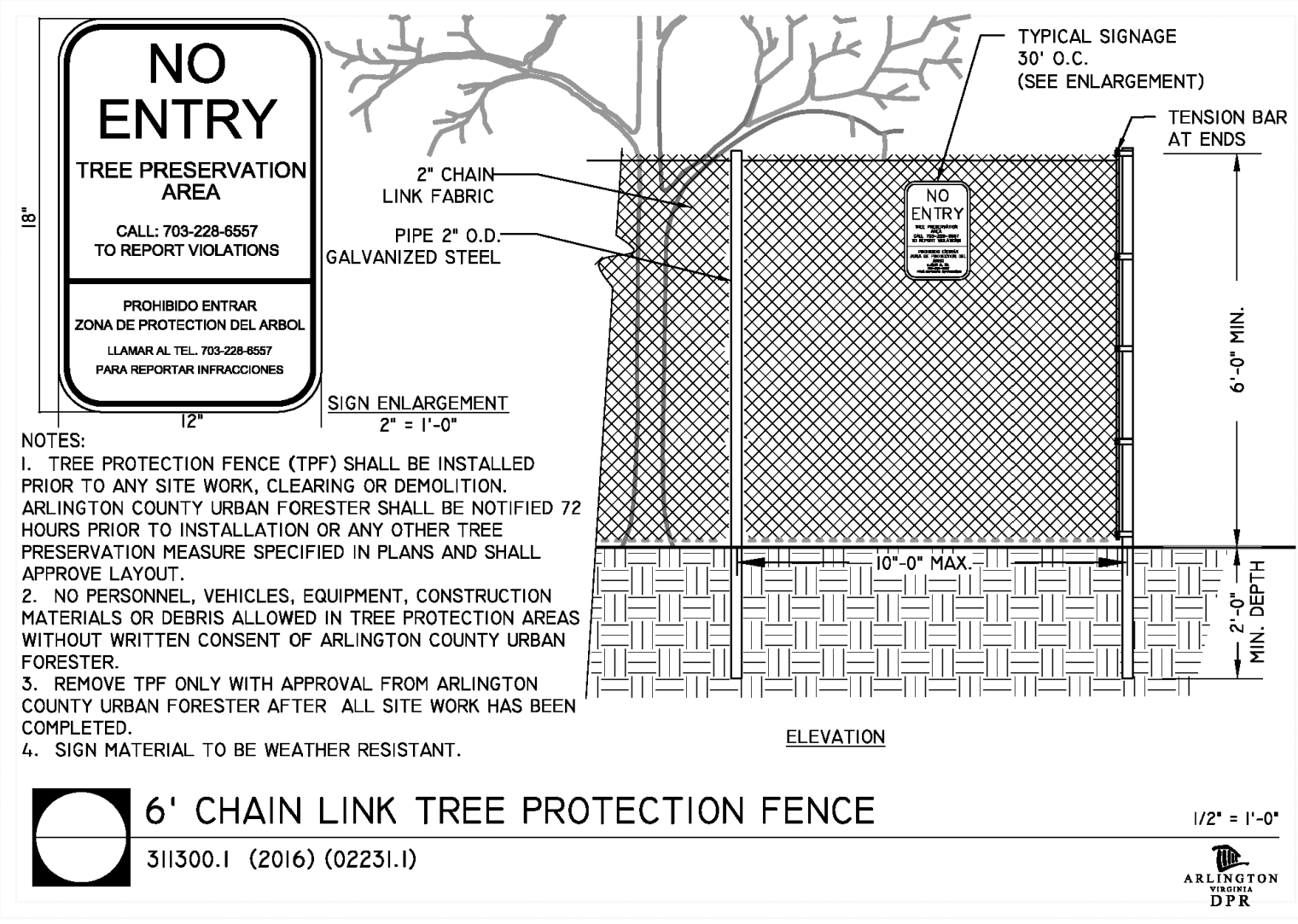
Head Carefully Before Ordering

The various standard trench models are available with a number of alternatives. It is important to examine all of the variables carefully and specify your requirements fully. Your order will be entered correctly and promptly if it includes the following information:

- Complete casting number
- Frame and grates, when required
- Type of frame, A, C, D, E, P or Q
- Length of trench sections
- Angles and intersections*
- Load requirements

*Trenches with angles, intersections, size changes, or other special requirements require detail drawings prior to ordering. Contact your sales representative or product engineering for assistance.

NEENAH **INF** FOUNDRY



FOR ALL DETAILS AND SPECIFICATIONS, SEE THE VIRGINIA EROSION & SEDIMENT CONTROL HANDBOOK

ARLINGTON VIRGINIA

DEPARTMENT OF ENVIRONMENTAL SERVICES
FACILITIES & ENGINEERING DIVISION
ENGINEERING BUREAU
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ARLINGTON, VA 22201
PHONE: 703.228.3629
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SEAL

PROFESSIONAL ENGINEER
Peter J. Rigby, Jr.
Lic. No. 01974
08/24/2020

APPROVALS

Amy Pfaffm	9/11/2020
QUALITY CONTROL ENGINEER	
Kamal Taktab	8.31.20
CONSTRUCTION MANAGEMENT SUPERVISOR	
Amy Pfaffm	09.16.2020
WATER, SEWER, STREETS BUREAU CHIEF	
Dennis M. Leach	09/11/20
TRANSPORTATION DIRECTOR	
Gabriela Koch	August 24, 2020
PROJECT MANAGER	

REVISIONS

REVISIONS	DATE

Project Name and Location
WASHINGTON BOULEVARD & 13TH STREET NORTH IMPROVEMENTS

EROSION & SEDIMENT CONTROL DETAILS

Designed: ABB
Drawn: CDL
Checked: MSD
Miss Utility Transmittal #: N/A

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Plotted by: September 17, 2020
Plotted by: CL

Scale: N/A

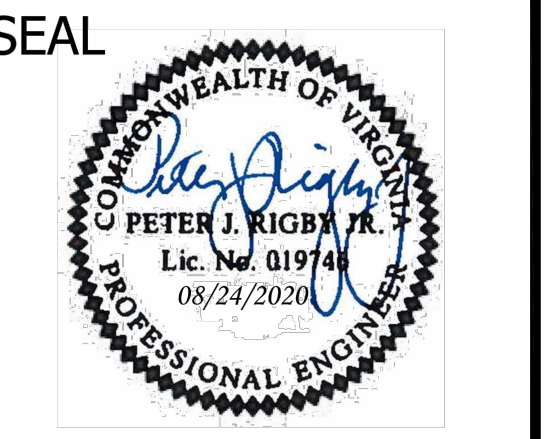
Sheet **4A OF 38**

NOTES:

1. CALL THE URBAN FORESTER AT 703-228-1863 72 HOURS BEFORE THE START OF ANY LAND DISTURBANCE TO DISCUSS AND SCHEDULE INSPECTION OF TREE PROTECTION MEASURES.



DEPARTMENT OF ENVIRONMENTAL SERVICES
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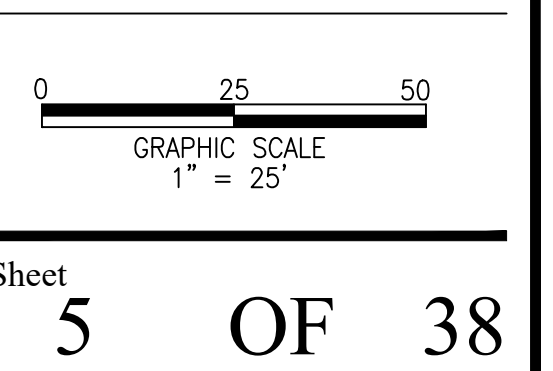


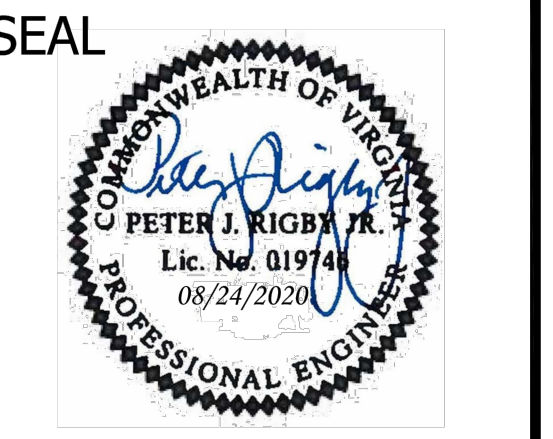
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<i>[Signature]</i> WATER, SEWER, STREETS BUREAU CHIEF	09.16.2020
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<i>Gabriela Koch</i> PROJECT MANAGER	August 24, 2020

REVISIONS	DATE

Project Name and Location
**WASHINGTON BOULEVARD
 & 13TH STREET NORTH IMPROVEMENTS
 E&S PLAN-PHASE I**

Designed: ABB
 Drawn: CDL
 Checked: MSD
 Miss Utility Transmittal #: N/A
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 Plotted by: CL
 Scale: 1"=25'



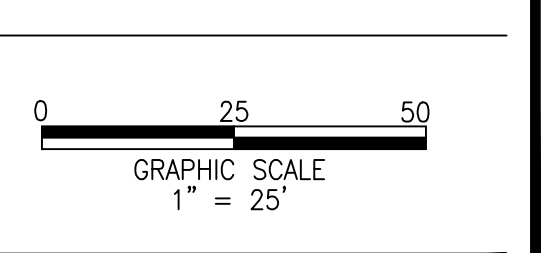


APPROVALS	DATE
<i>Amy Pflaum</i> QUALITY CONTROL ENGINEER	9/11/2020
<i>Kamal Takab</i> CONSTRUCTION MANAGEMENT SUPERVISOR	8.31.20
<i>[Signature]</i> WATER, SEWER, STREETS BUREAU CHIEF	09.16.2020
<i>Dennis M. Leach</i> TRANSPORTATION DIRECTOR	09/11/20
<i>Gabriela Koch</i> PROJECT MANAGER	August 24, 2020

REVISIONS	DATE

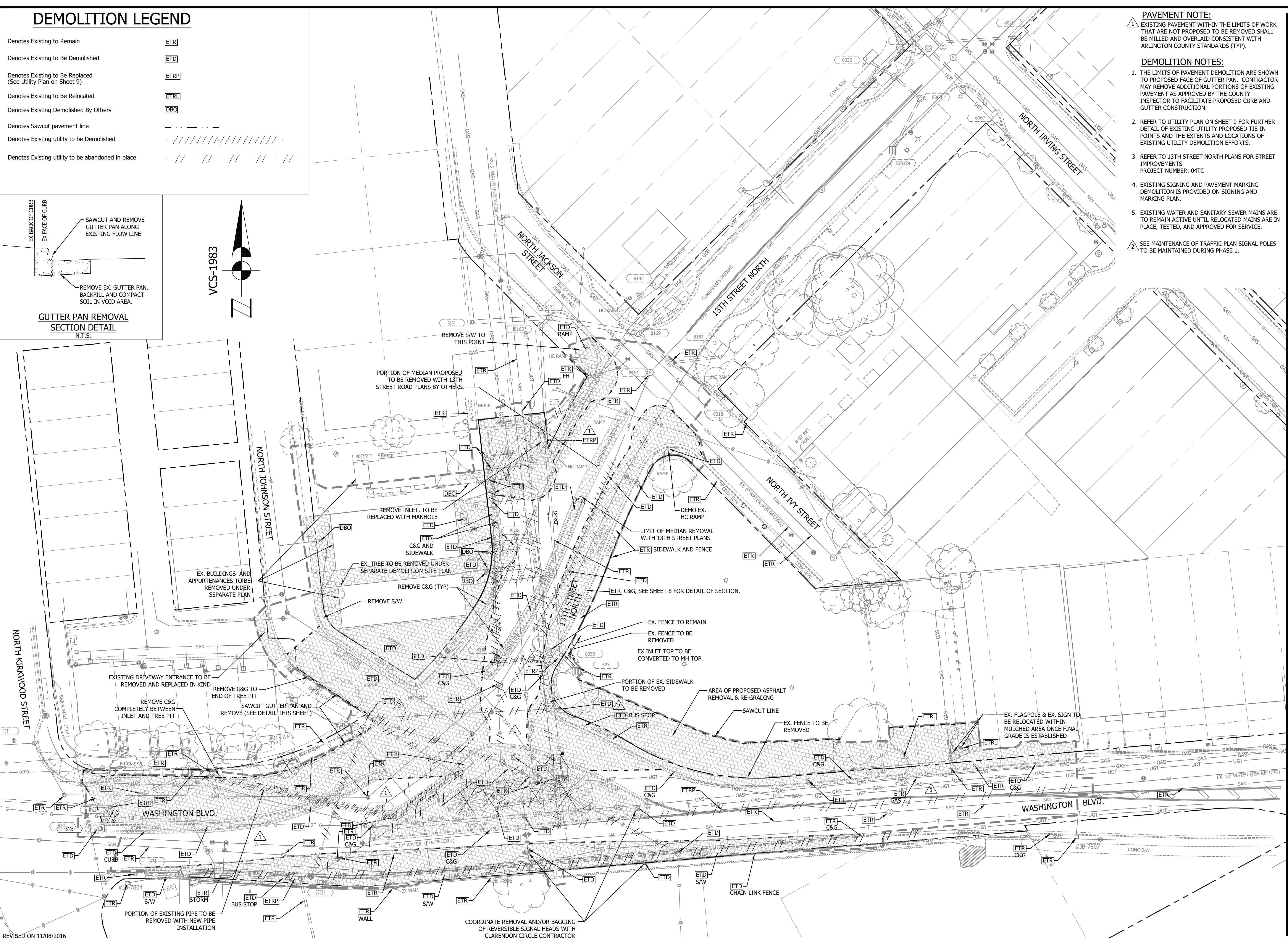
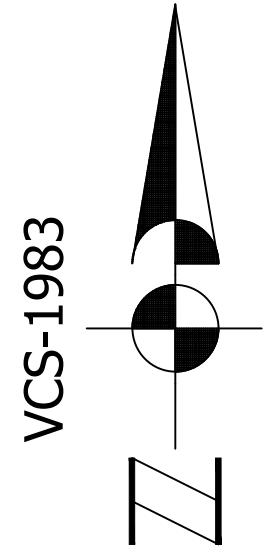
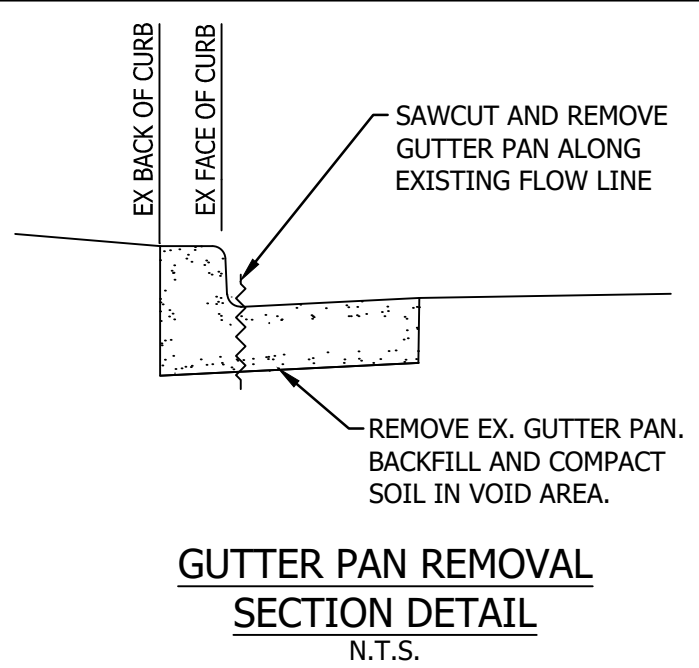
Project Name and Location
**WASHINGTON BOULEVARD
& 13TH STREET NORTH IMPROVEMENTS
E&S PLAN-PHASE II**

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Drawn: CDL
Checked: MSD
Miss Utility Transmittal #: N/A
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Path: Q:\DATA\8023 DESIGN_CAD\80 100 PCT
ARCHIVE\REVISED APPROVED PLANS
Plotted: September 17, 2020
Plotted by: CL
Scale: 1"=25'



DEMOLITION LEGEND

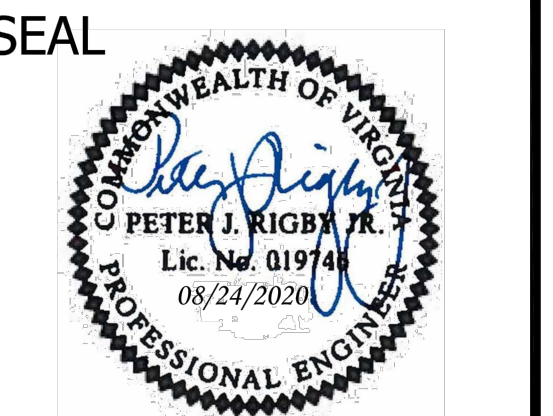
- Denotes Existing to Remain [ETR]
- Denotes Existing to Be Demolished [ETD]
- Denotes Existing to Be Replaced (See Utility Plan on Sheet 9) [ETRP]
- Denotes Existing to Be Relocated [ETRL]
- Denotes Existing Demolished By Others [DBC]
- Denotes Sawcut pavement line ---
- Denotes Existing utility to be Demolished / / / / /
- Denotes Existing utility to be abandoned in place / / / / /



- PAVEMENT NOTE:**
 EXISTING PAVEMENT WITHIN THE LIMITS OF WORK THAT ARE NOT PROPOSED TO BE REMOVED SHALL BE MILLED AND OVERLAID CONSISTENT WITH ARLINGTON COUNTY STANDARDS (TYP).
- DEMOLITION NOTES:**
- THE LIMITS OF PAVEMENT DEMOLITION ARE SHOWN TO PROPOSED FACE OF GUTTER PAN. CONTRACTOR MAY REMOVE ADDITIONAL PORTIONS OF EXISTING PAVEMENT AS APPROVED BY THE COUNTY INSPECTOR TO FACILITATE PROPOSED CURB AND GUTTER CONSTRUCTION.
 - REFER TO UTILITY PLAN ON SHEET 9 FOR FURTHER DETAIL OF EXISTING UTILITY PROPOSED TIE-IN POINTS AND THE EXTENTS AND LOCATIONS OF EXISTING UTILITY DEMOLITION EFFORTS.
 - REFER TO 13TH STREET NORTH PLANS FOR STREET IMPROVEMENTS PROJECT NUMBER: 04TC
 - EXISTING SIGNING AND PAVEMENT MARKING DEMOLITION IS PROVIDED ON SIGNING AND MARKING PLAN.
 - EXISTING WATER AND SANITARY SEWER MAINS ARE TO REMAIN ACTIVE UNTIL RELOCATED MAINS ARE IN PLACE, TESTED, AND APPROVED FOR SERVICE.
- SEE MAINTENANCE OF TRAFFIC PLAN SIGNAL POLES TO BE MAINTAINED DURING PHASE 1.



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 ENGINEERING BUREAU
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 ARLINGTON, VA 22201
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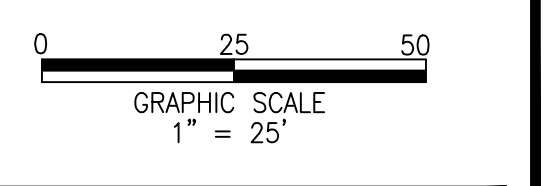


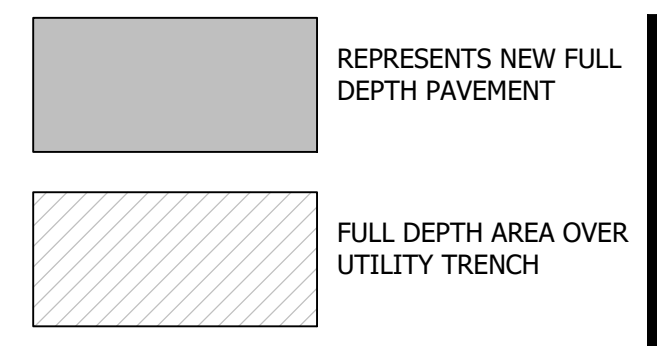
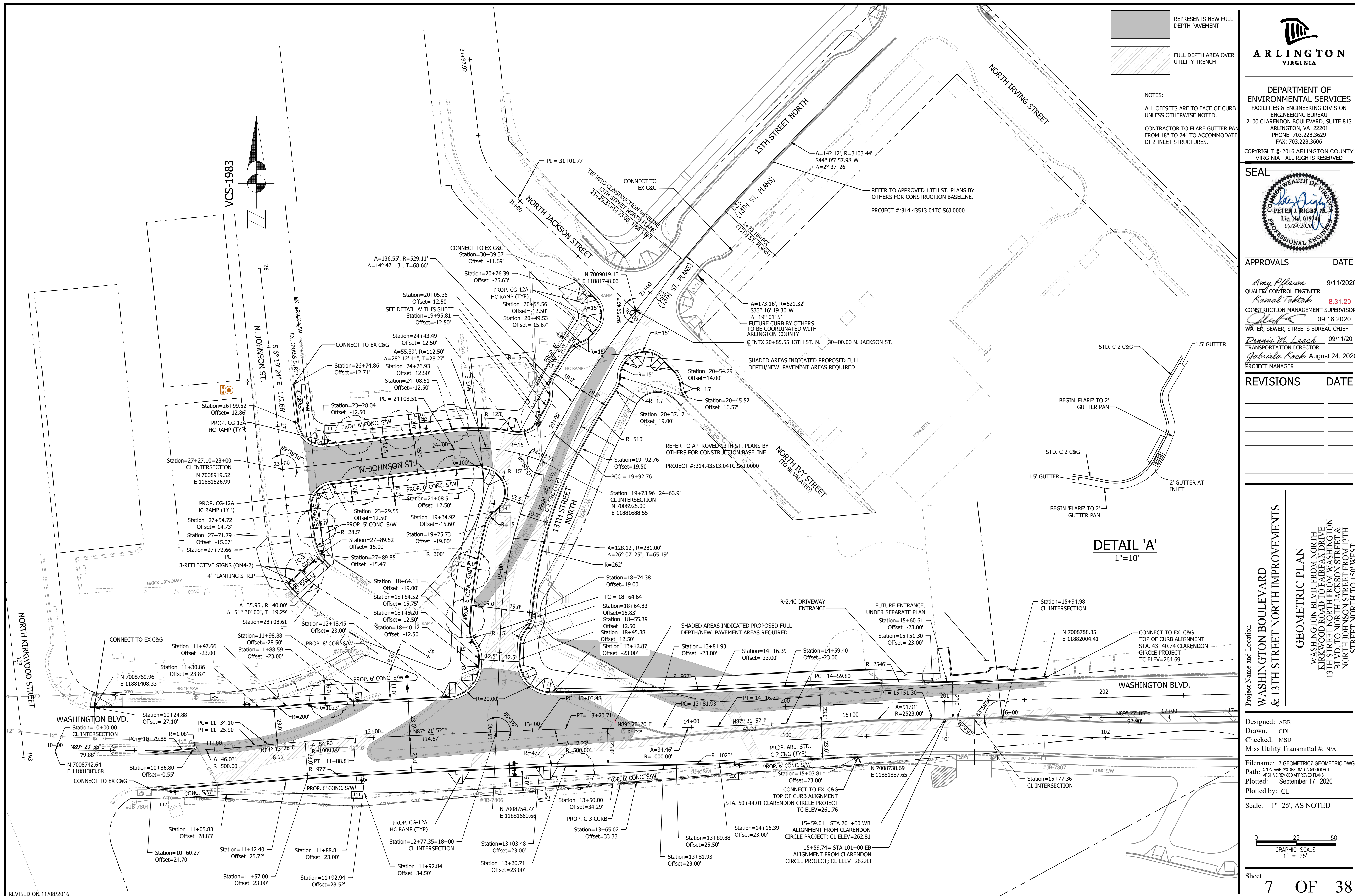
APPROVALS	DATE
Amy Pfauem QUALITY CONTROL ENGINEER	9/11/2020
Kamal Taktak CONSTRUCTION MANAGEMENT SUPERVISOR	8.31.20
[Signature] WATER, SEWER, STREETS BUREAU CHIEF	09.16.2020
Dennis M. Leach TRANSPORTATION DIRECTOR	09/11/20
Gabriela Koch PROJECT MANAGER	August 24, 2020

REVISIONS	DATE

Project Name and Location
WASHINGTON BOULEVARD & 13TH STREET NORTH IMPROVEMENTS
 DEMOLITION PLAN

Designed: ABB
 Drawn: CDL
 Checked: MSD
 Miss Utility Transmittal #: N/A
 Filename: 6-DEMOLITION6-DEMOLITION.DWG
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 (REVISED APPROVED PLANS)
 Plotted: September 17, 2020
 Plotted by: CL
 Scale: 1"=25'

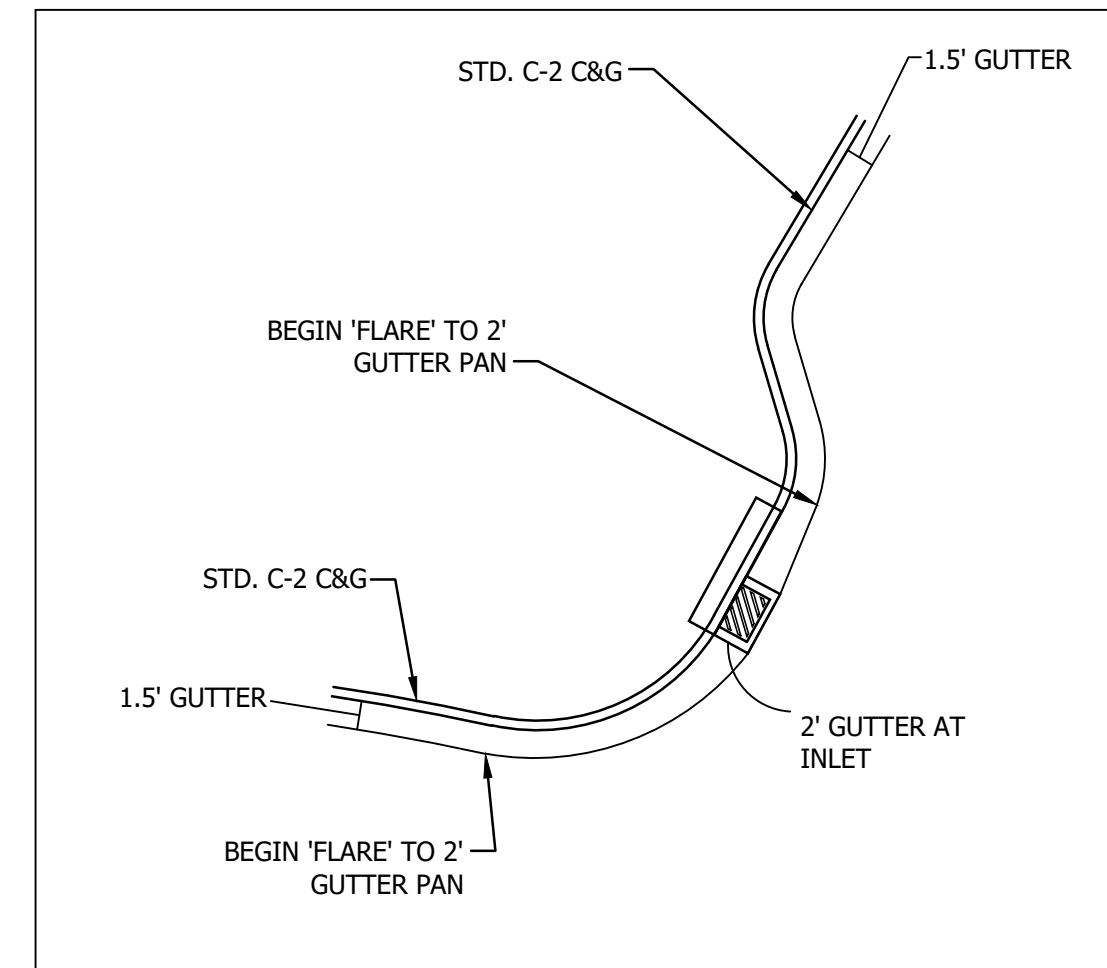




NOTES:
 ALL OFFSETS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
 CONTRACTOR TO FLARE GUTTER PAN FROM 18" TO 24" TO ACCOMMODATE DI-2 INLET STRUCTURES.

REFER TO APPROVED 13TH ST. PLANS BY OTHERS FOR CONSTRUCTION BASELINE.
 PROJECT #: 314.43513.04TC.S61.0000

REFER TO APPROVED 13TH ST. PLANS BY OTHERS FOR CONSTRUCTION BASELINE.
 PROJECT #: 314.43513.04TC.S61.0000

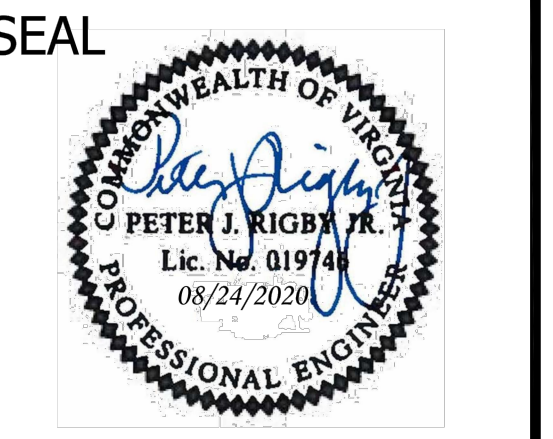


DETAIL 'A'
 1"=10'



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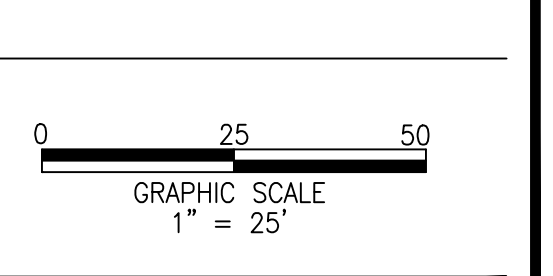


APPROVALS	DATE
<i>Amy Pflaum</i>	9/11/2020
QUALITY CONTROL ENGINEER	
<i>Kamal Tabatab</i>	8.31.20
CONSTRUCTION MANAGEMENT SUPERVISOR	
<i>[Signature]</i>	09.16.2020
WATER, SEWER, STREETS BUREAU CHIEF	
<i>Dennis M. Leach</i>	09/11/20
TRANSPORTATION DIRECTOR	
<i>Gabriela Koch</i>	August 24, 2020
PROJECT MANAGER	

REVISIONS	DATE

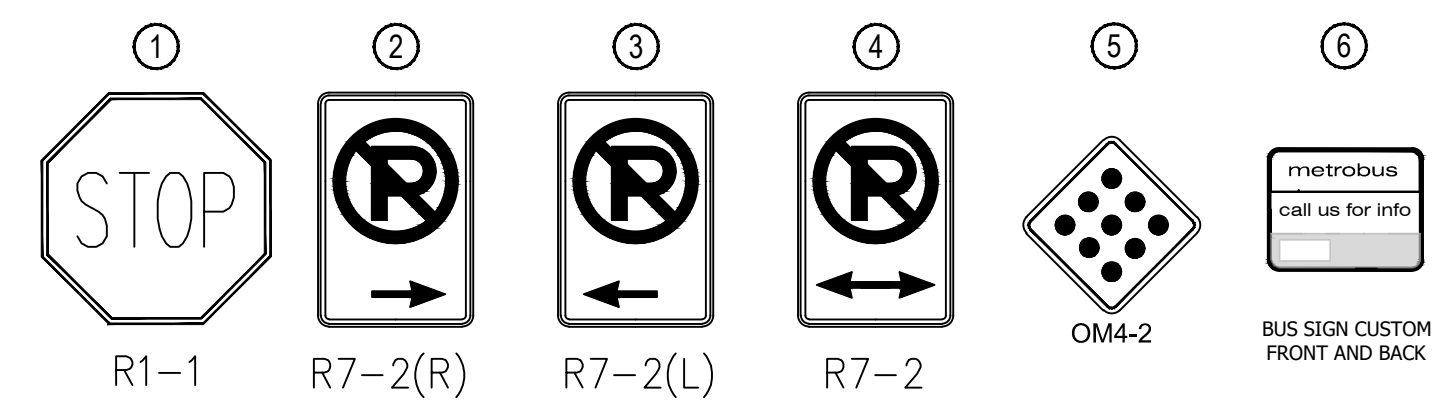
Project Name and Location
WASHINGTON BOULEVARD & 13TH STREET NORTH IMPROVEMENTS
 GEOMETRIC PLAN
 WASHINGTON BLVD. FROM NORTH KIRKWOOD ROAD TO FAIRFAX DRIVE
 13TH STREET NORTH FROM WASHINGTON BLVD. TO NORTH JACKSON STREET & NORTH JOHNSON STREET FROM 13TH STREET NORTH TO 150' WEST

Designed: ABB
 Drawn: CDI
 Checked: MSD
 Miss Utility Transmittal #: N/A
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 Plotted: September 17, 2020
 Plotted by: CL



Scale: 1"=25'; AS NOTED

STANDARD SIGNAGE LEGEND:



SIGN AND PAVEMENT MARKING NOTES:

- STREET WIDTH MEASUREMENTS ARE FROM FACE OF CURB TO FACE OF CURB. LANES ARE MEASURED FROM CENTER OF MARKING TO CENTER OF MARKING.
- CONTACT DENNIS HOWELL OR HIS DESIGNEE AT 703-228-6598 OR (571) 437-1077 TO APPROVE MARKING LAYOUT 48 HRS. PRIOR TO INSTALLATION OF MARKINGS.
- PAVEMENT MARKINGS TO BE IN ACCORDANCE WITH THE FOLLOWING AND ANY REVISIONS HERE TO:
 - THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
 - ARLINGTON COUNTY MARKING STANDARDS.
- ALL MARKINGS SHALL BE THERMOPLASTIC PER ARLINGTON COUNTY MARKING STANDARDS.
- STOP BARS SHALL BE A MINIMUM OF 4' IN ADVANCE OF A MARKED CROSSWALK. IF THERE IS NO MARKED CROSSWALK, STOP BAR SHALL BE NO MORE THAN 30' FROM THE NEAREST EDGE OF THE INTERSECTED TRAVELED WAY.
- CROSSWALKS SHALL BE 10' WIDE UNLESS OTHERWISE NOTED.
- LEFT TURN ARROWS SHALL BE LOCATED 25' BACK FROM STOP BAR. FOR ADDITIONAL ARROWS FOLLOW COUNTY MARKING STANDARDS.
- ON-STREET PARKING LANE IS 7' WIDE (UNLESS OTHERWISE NOTED) AND MARKED WITH 4" WIDE WHITE LINES. BEGINNING AND END OF PARKING SHALL BE MARKED WITH AN END LINE PERPENDICULAR TO CURB EXCEPT AT NUBS OR WHERE OTHERWISE INDICATED.
- SHARED LANE MARKINGS SHALL BE PLACED IN CENTER OF LANE, 250' APART UNLESS OTHERWISE SPECIFIED.
- BIKE LANE SYMBOLS TO BE PLACED 330' APART UNLESS OTHERWISE SPECIFIED.

STANDARD PAVEMENT MARKING LEGEND:

- TYPE B CLASS 1....., WHITE 4" WIDTH
- TYPE B CLASS 1....., WHITE 4" WIDTH, 10' LONG, 30' SPACING
- TYPE B CLASS 1....., WHITE 4" WIDTH, 2' LONG, 10' SPACING
- TYPE B CLASS 1....., WHITE 18" WIDTH
- TYPE B CLASS 1....., WHITE 24" WIDTH
- TYPE B CLASS 1....., WHITE 6" WIDTH
- TYPE B CLASS 1....., WHITE 8" WIDTH
- TYPE B CLASS 1....., YELLOW 4" WIDTH, 2' LONG, 10' SPACING
- TYPE B CLASS 1....., YELLOW 4" WIDTH, DOUBLE LINE, 4" SPACING
- TYPE B CLASS 1....., WHITE 6" WIDTH, 10' SPACING @45 DEGREE
- TYPE B CLASS 1....., WHITE SINGLE ARROW
- TYPE B CLASS 1....., WHITE COMBINATION ARROW
- TYPE B CLASS 1....., WHITE 8" LETTERS
- TYPE B CLASS 1....., WHITE 6" WIDTH, 2' LONG, 10' SPACING
- TYPE B CLASS 1....., WHITE 12" WIDTH, 20' SPACING @45 DEGREE
- TYPE B CLASS 1....., YELLOW 12" WIDTH, 20' SPACING @45 DEGREE
- TYPE B CLASS 1....., YELLOW 4" WIDTH, SINGLE LINE

ARLINGTON VIRGINIA

DEPARTMENT OF ENVIRONMENTAL SERVICES
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 ARLINGTON, VA 22201
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SEAL

APPROVALS	DATE
<i>Amy Pflaum</i> QUALITY CONTROL ENGINEER	9/11/2020
<i>Kamal Takab</i> CONSTRUCTION MANAGEMENT SUPERVISOR	8.31.20
<i>[Signature]</i> WATER, SEWER, STREETS BUREAU CHIEF	09.16.2020
<i>Dennis M. Leach</i> TRANSPORTATION DIRECTOR	09/11/20
<i>Gabriela Koch</i> PROJECT MANAGER	August 24, 2020

REVISIONS	DATE

Project Name and Location
WASHINGTON BOULEVARD & 13TH STREET NORTH IMPROVEMENTS

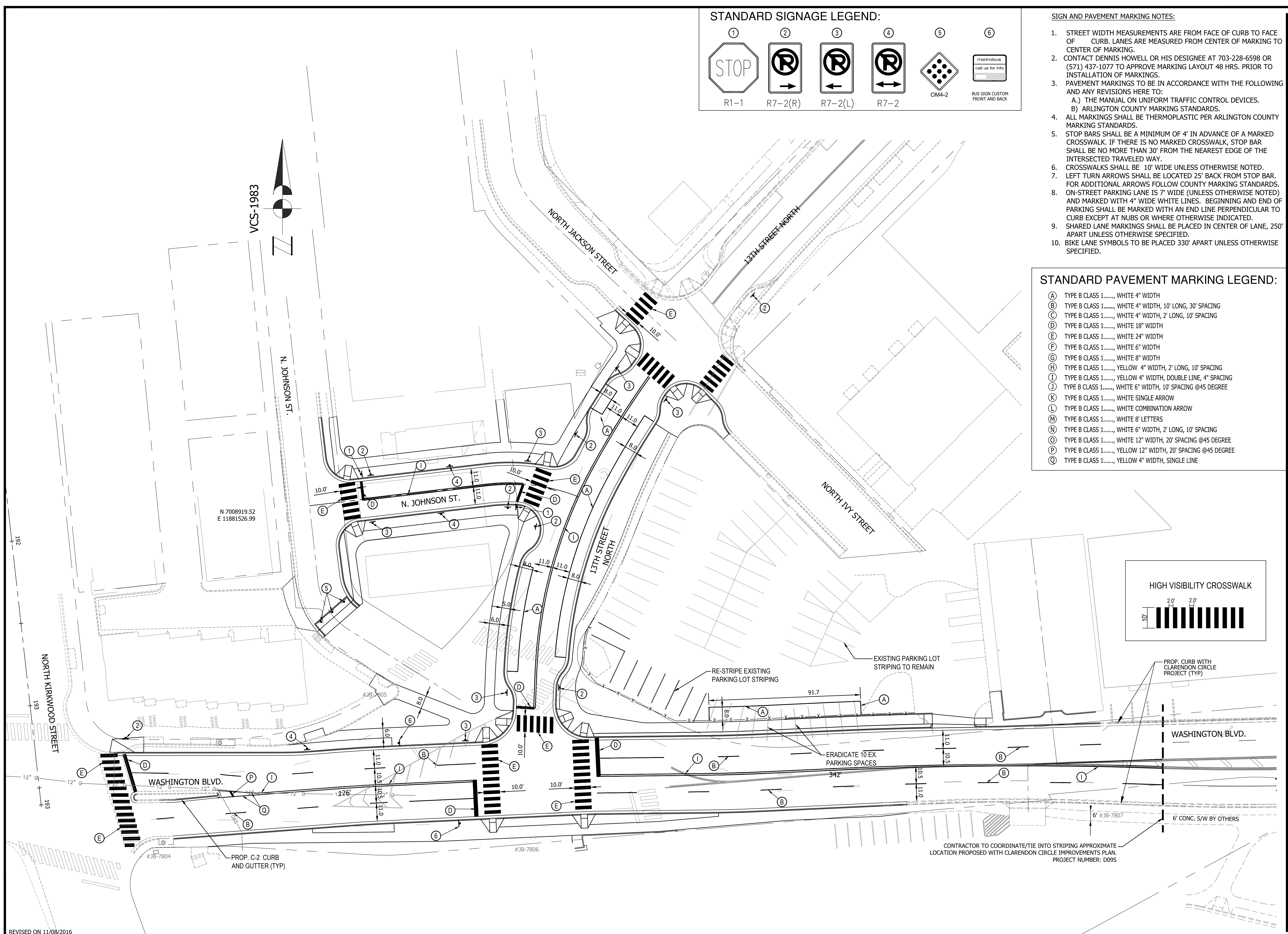
STRIPING AND MARKING PLAN
 WASHINGTON BLVD. FROM NORTH KIRKWOOD ROAD TO FAIRFAX DRIVE
 13TH STREET NORTH FROM WASHINGTON BLVD. TO NORTH JACKSON STREET & NORTH JOHNSON STREET FROM 13TH STREET NORTH TO 150' WEST

Designed: ABB
 Drawn: CDL
 Checked: MSD
 Miss Utility Transmittal #: N/A

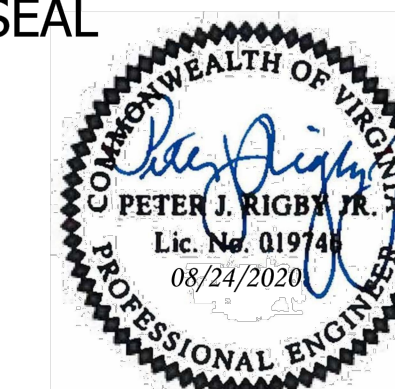
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 Plotted: September 17, 2020
 Plotted by: CL

Scale: 1"=25'

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 GRAPHIC SCALE
 1" = 25'



SEAL

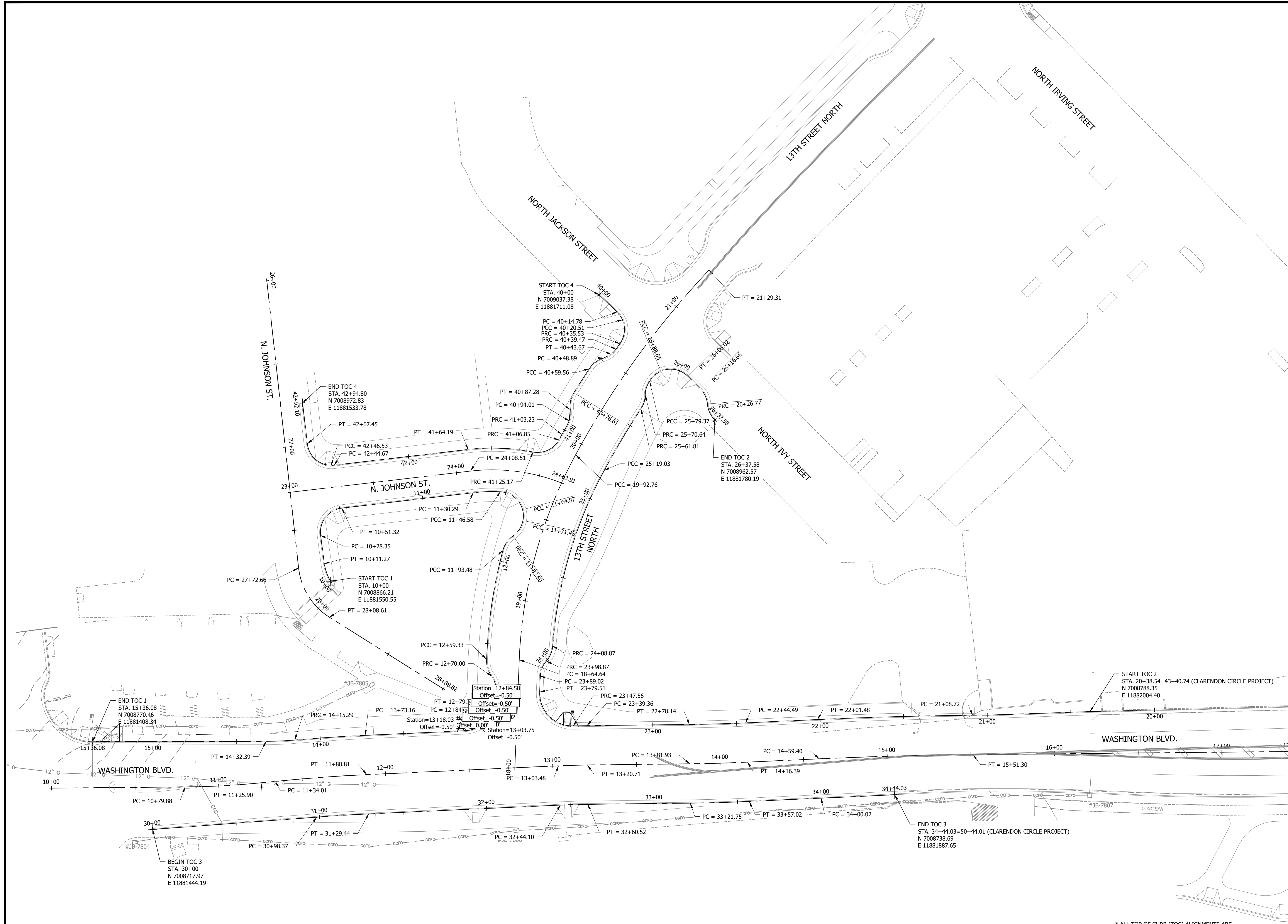


APPROVALS DATE

<i>Amy Pflaum</i>	9/11/2020
QUALITY CONTROL ENGINEER	
<i>Kamal Taktak</i>	8.31.20
CONSTRUCTION MANAGEMENT SUPERVISOR	
<i>[Signature]</i>	09.16.2020
WATER, SEWER, STREETS BUREAU CHIEF	
<i>Dennis M. Leach</i>	09/11/20
TRANSPORTATION DIRECTOR	
<i>Gabriela Koch</i>	August 24, 2020
PROJECT MANAGER	

REVISIONS DATE

REVISIONS	DATE



Project Name and Location
WASHINGTON BOULEVARD & 13TH STREET NORTH IMPROVEMENTS
CURB RETURN CONTROL PLAN
WASHINGTON BLVD. FROM NORTH KIRKWOOD ROAD TO FAIRFAX DRIVE
13TH STREET NORTH FROM WASHINGTON BLVD. TO NORTH JACKSON STREET & NORTH JOHNSON STREET FROM 13TH STREET NORTH TO 150' WEST

Designed: ABB
Drawn: CDL
Checked: MSD
Miss Utility Transmittal #: N/A

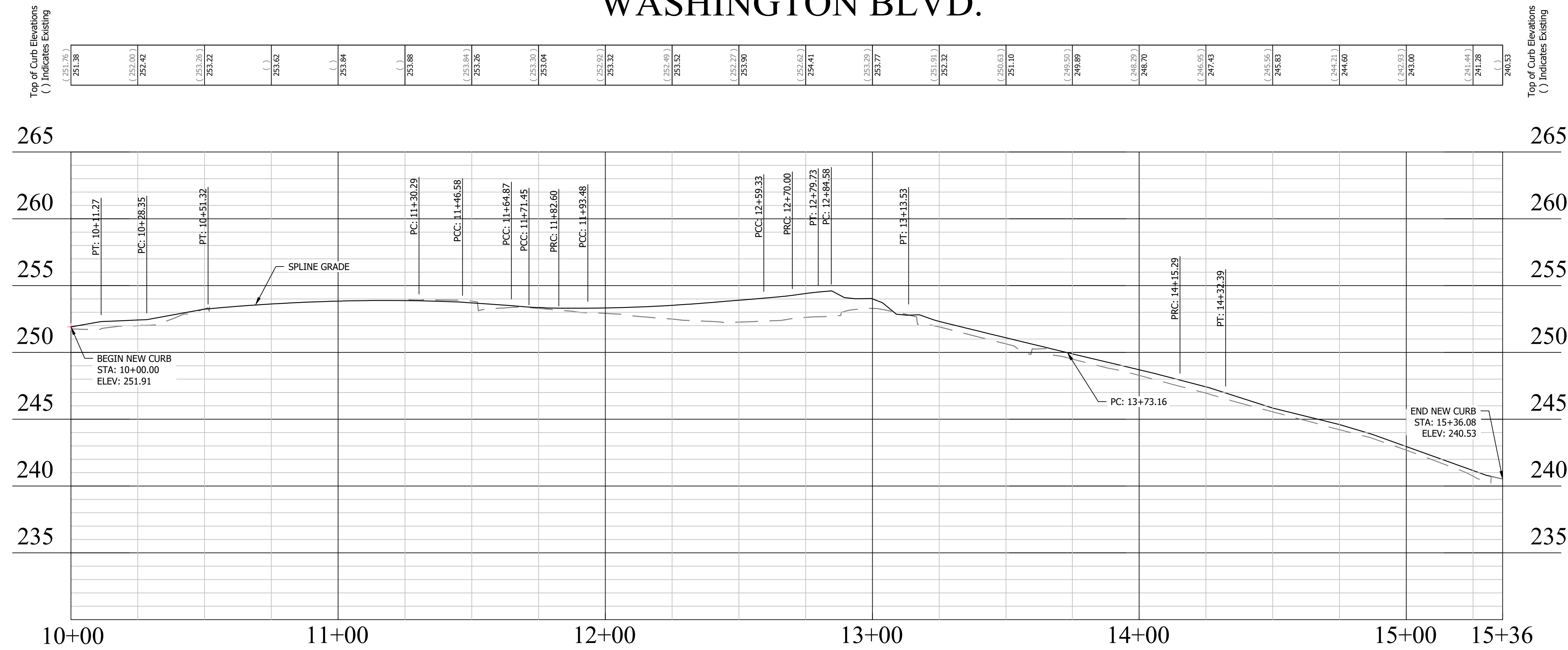
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Plotted: September 17, 2020
Plotted by: CL

Scale: 1"=25'
GRAPHIC SCALE
1" = 25'

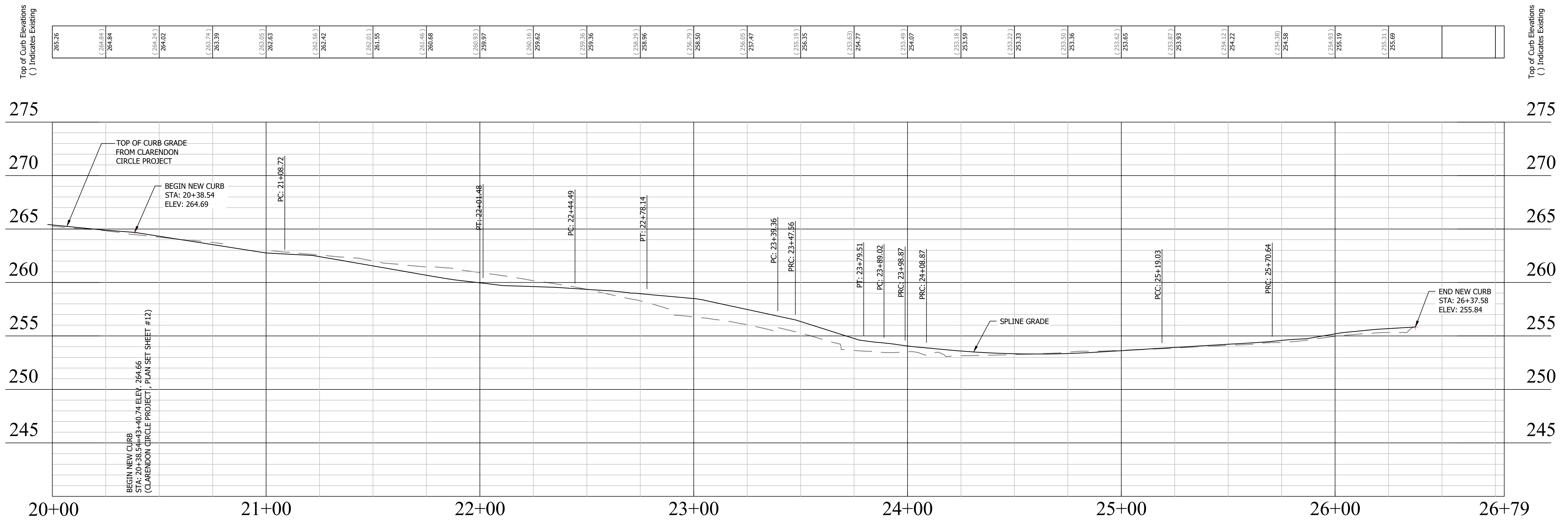
Sheet
7B OF 38

* ALL TOP OF CURB (TOC) ALIGNMENTS ARE SET ALONG THE BACK OF CURB

TOC 1 - EB NORTH JOHNSON STREET to SB 13TH STREET to WB WASHINGTON BLVD.

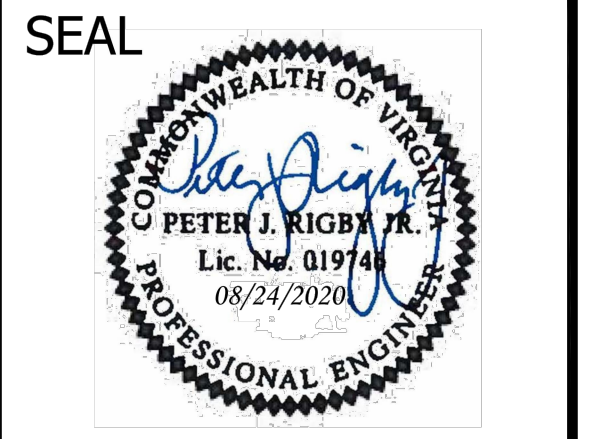


TOC 2 - WB WASHINGTON BLVD. to NB 13TH STREET



DEPARTMENT OF ENVIRONMENTAL SERVICES
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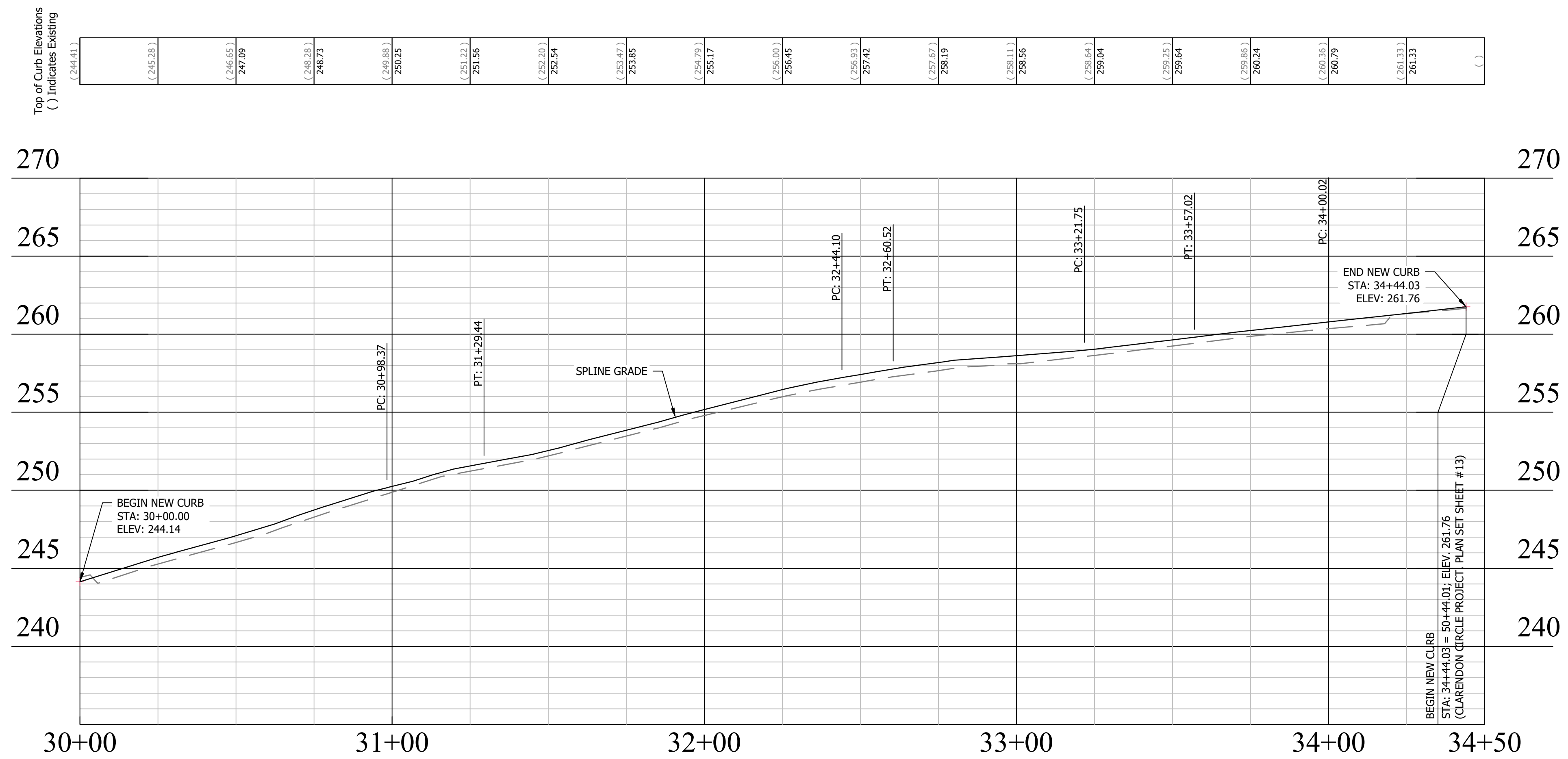
APPROVALS	DATE
Amy Pflaum QUALITY CONTROL ENGINEER	9/11/2020
Kamal Takab CONSTRUCTION MANAGEMENT SUPERVISOR	8.31.20
[Signature] WATER, SEWER, STREETS BUREAU CHIEF	09.16.2020
Dennis M. Leach TRANSPORTATION DIRECTOR	09/11/20
Gabriela Koch PROJECT MANAGER	August 24, 2020

REVISIONS	DATE

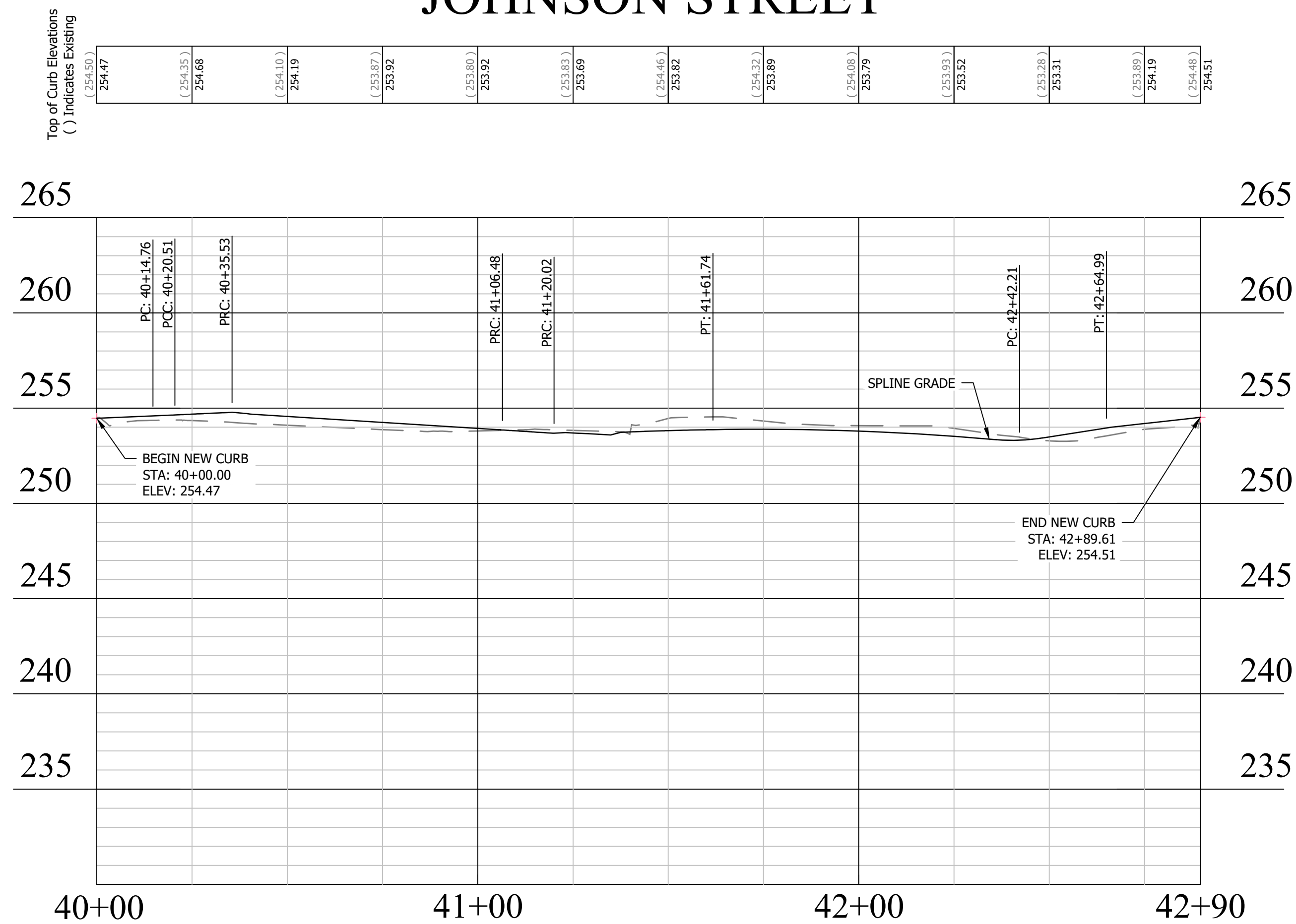
Project Name and Location
WASHINGTON BOULEVARD & 13TH STREET NORTH IMPROVEMENTS
CURB RETURN PROFILES (1 OF 2)

Designed: ABB
 Drawn: CDL
 Checked: MSD
 Miss Utility Transmittal #: N/A
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 ARCHIVE\REVISED APPROVED PLANS
 Plotted: September 17, 2020
 Plotted by: CL
 Scale: Hor.: 1"=25'
 Vert.: 1"=5'

TOC 3 - EB WASHINGTON BLVD.

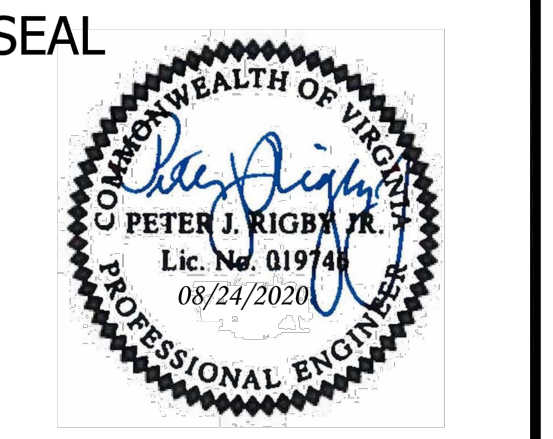


TOC 4 - SB 13TH STREET to WB NORTH JOHNSON STREET



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 ARLINGTON, VA 22201
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 FAX: 703.228.3606

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APPROVALS	DATE
<i>Amy Pflaum</i> QUALITY CONTROL ENGINEER	9/11/2020
<i>Kamal Takab</i> CONSTRUCTION MANAGEMENT SUPERVISOR	8.31.20
<i>[Signature]</i> WATER, SEWER, STREETS BUREAU CHIEF	09.16.2020
<i>Dennis M. Leach</i> TRANSPORTATION DIRECTOR	09/11/20
<i>Gabriela Koch</i> PROJECT MANAGER	August 24, 2020

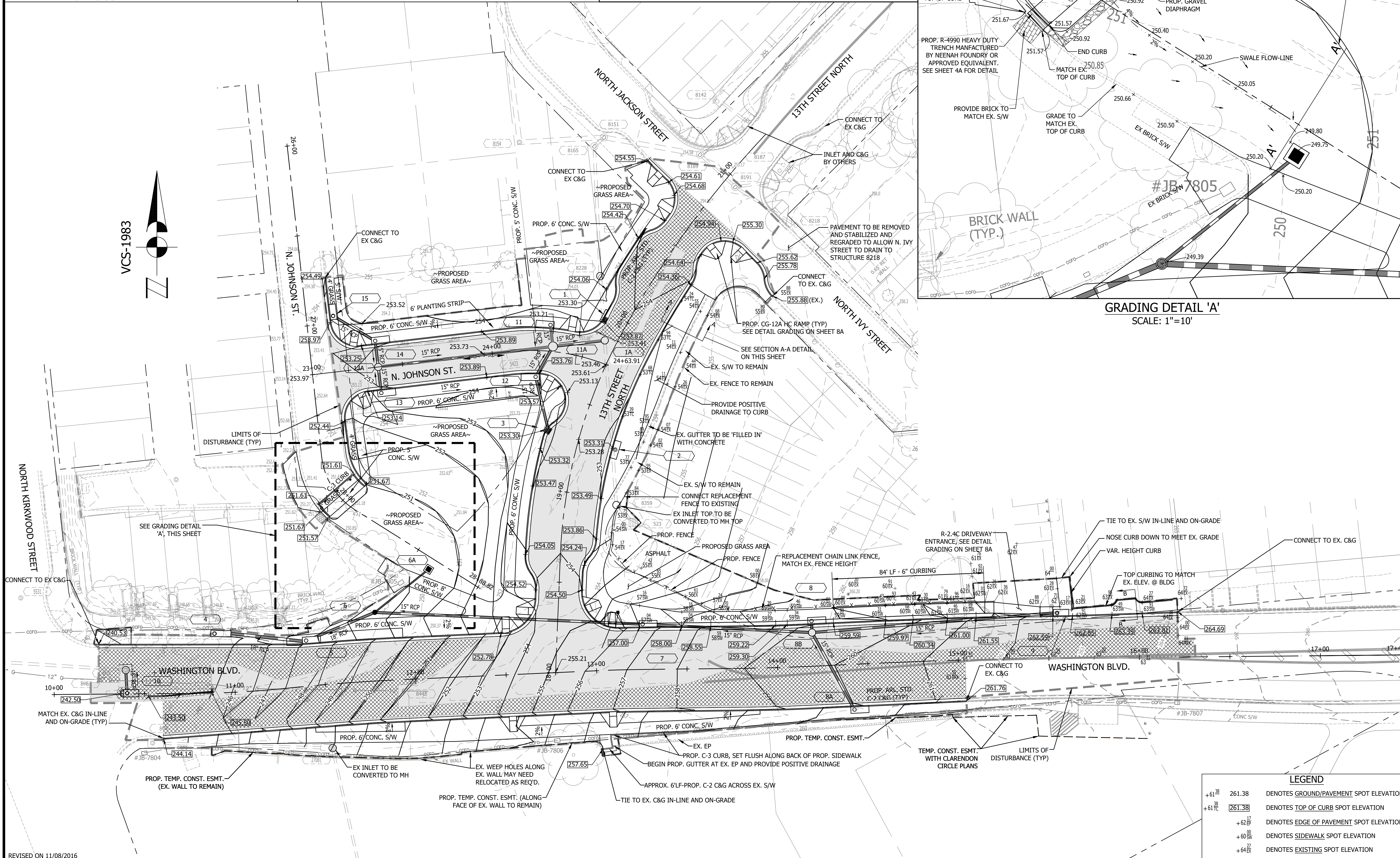
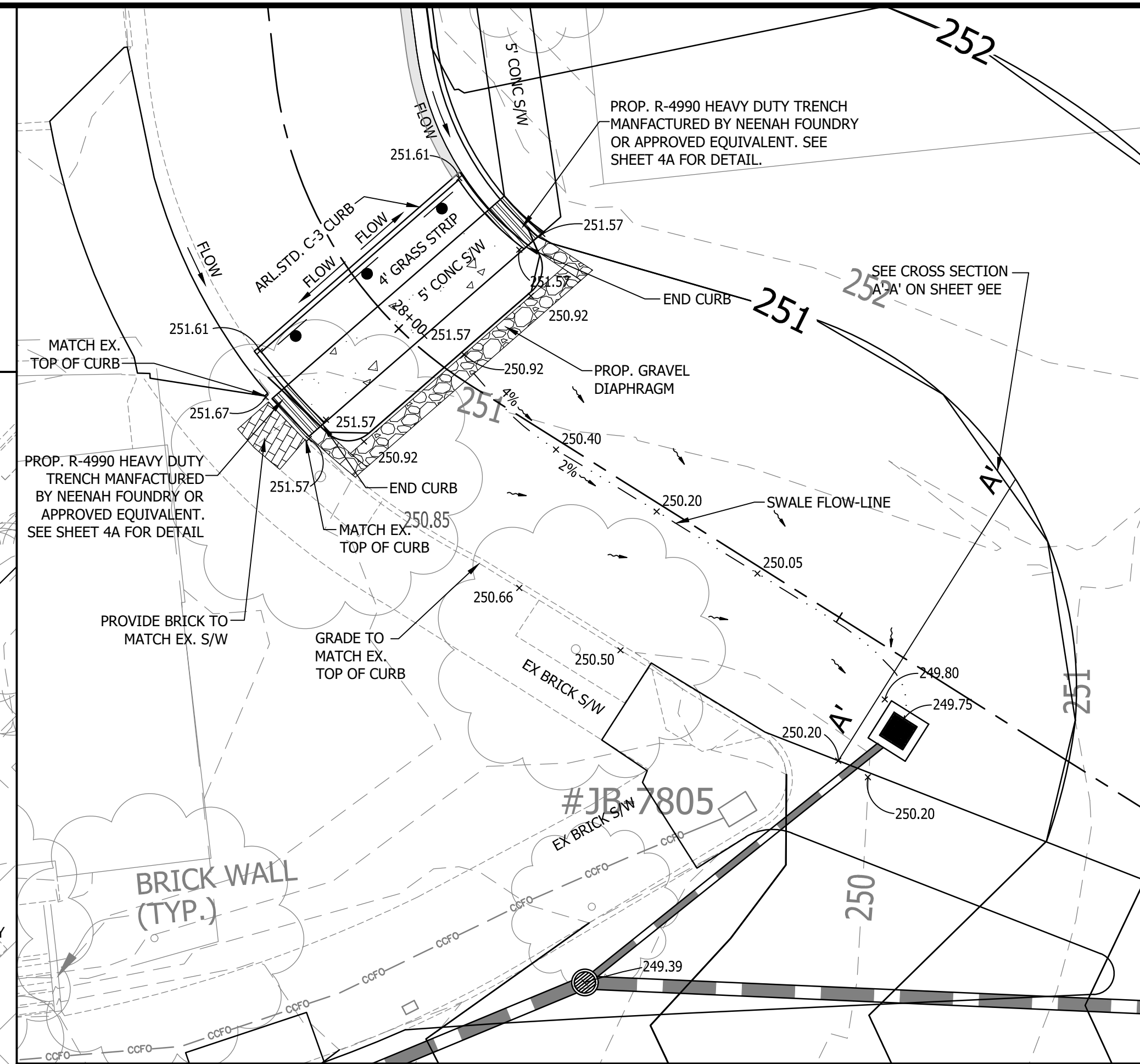
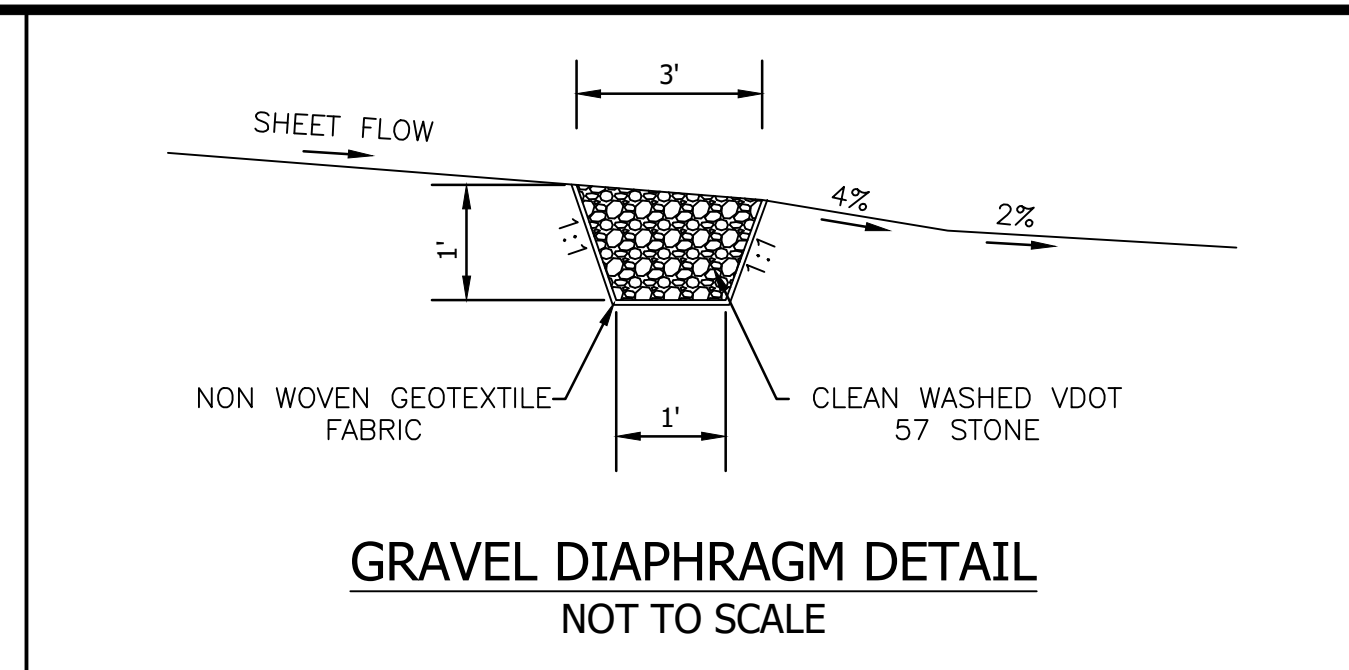
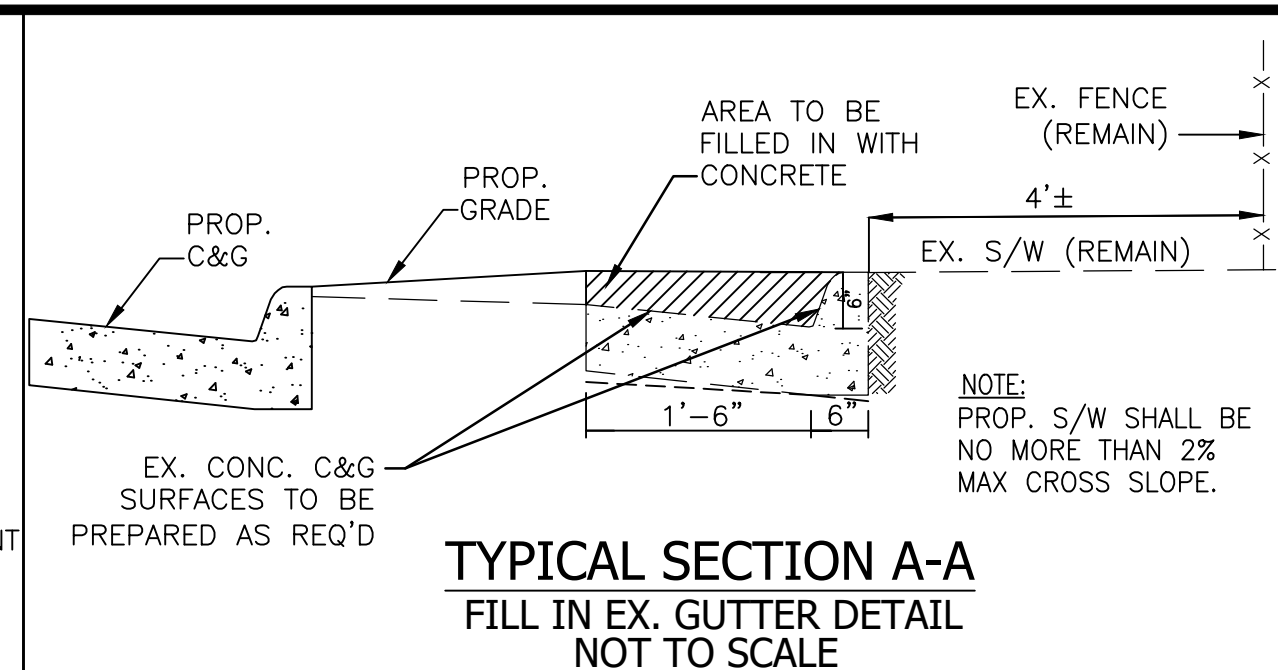
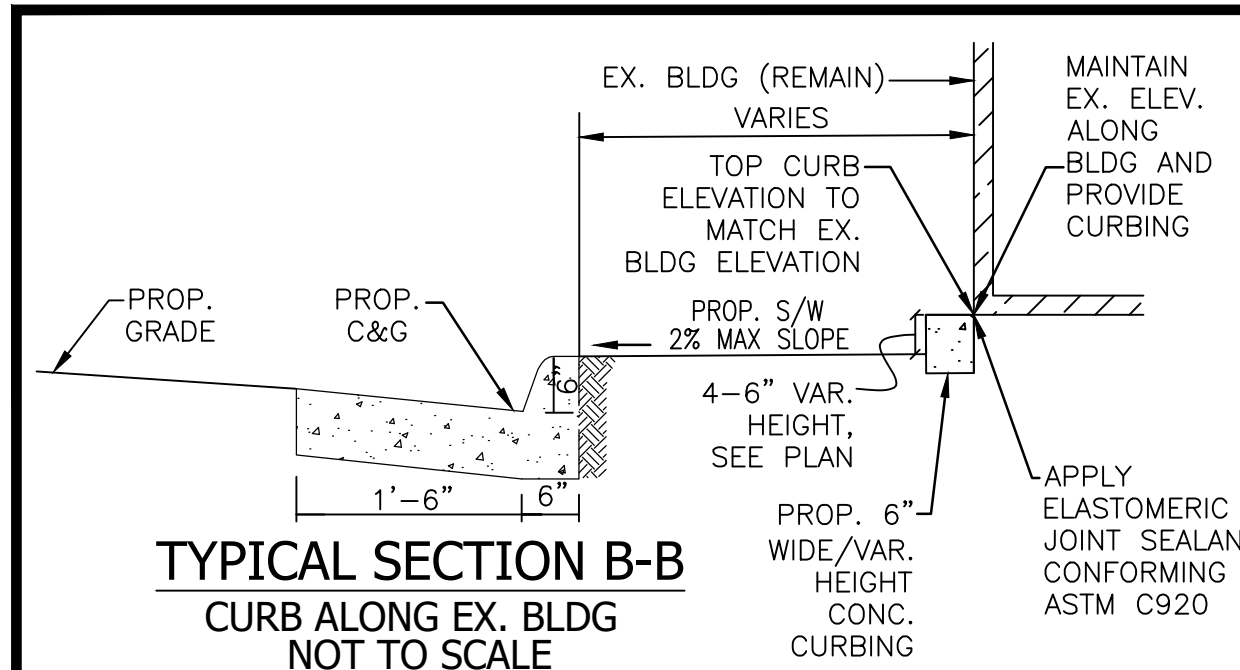
REVISIONS	DATE

Project Name and Location
WASHINGTON BOULEVARD & 13TH STREET NORTH IMPROVEMENTS
CURB RETURN PROFILES (2 OF 2)

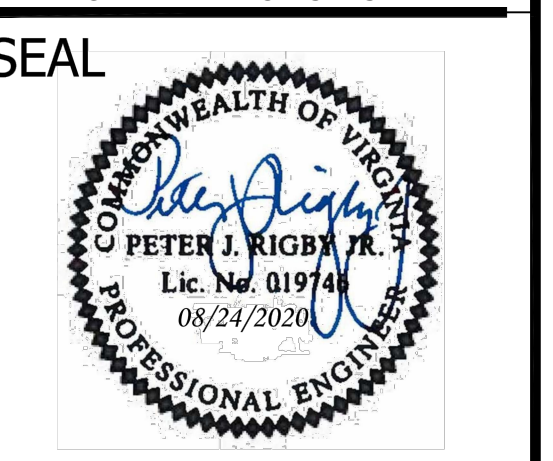
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 Drawn: CDL
 Checked: MSD
 Miss Utility Transmittal #: N/A

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 ARCH\REVISED APPROVED PLANS
 Plotted: September 17, 2020
 Plotted by: CL

Scale: Hor.: 1"=25'
 Vert.: 1"=5'



DEPARTMENT OF ENVIRONMENTAL SERVICES
FACILITIES & ENGINEERING DIVISION
ENGINEERING BUREAU
2100 CLARENDON BOULEVARD, SUITE 813
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PHONE: 703.228.3629
FAX: 703.228.3606



APPROVALS

NAME	DATE
Amy Pflaum	9/11/2020
Kamal Taktab	8.31.20
Cliff	09.16.2020
Dennis M. Leach	09/11/20
Gabriela Koch	August 24, 2020

REVISIONS

NO.	DATE	DESCRIPTION

GRADING PLAN
WASHINGTON BOULEVARD
& 13TH STREET NORTH IMPROVEMENTS

Project Name and Location
WASHINGTON BOULEVARD
& 13TH STREET NORTH IMPROVEMENTS

WASHINGTON BLVD. FROM NORTH
KIRKWOOD ROAD TO FAIRFAX DRIVE
13TH STREET NORTH FROM WASHINGTON
BLVD. TO NORTH JACKSON STREET &
NORTH JOHNSON STREET FROM 13TH
STREET NORTH TO 150' WEST

Designed: ABB
Drawn: CDL
Checked: MSD
Miss Utility Transmittal #: N/A

Filename: 8-GRADING8-GRADING.DWG
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18-REVISED APPROVED PLANS
Plotted: September 17, 2020
Plotted by: CL

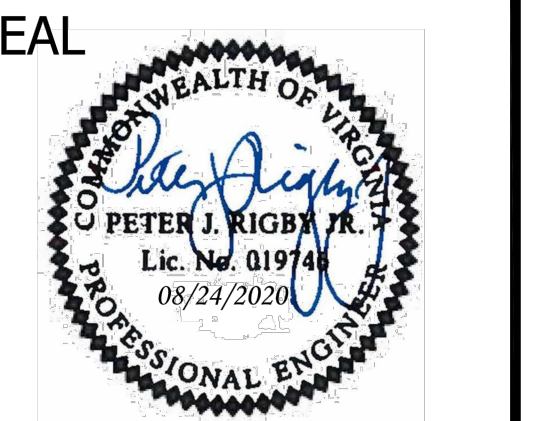
Scale: 1"=25'

LEGEND

+61.38	261.38	DENOTES GROUND/PAVEMENT SPOT ELEVATION
+61.38	261.38	DENOTES TOP OF CURB SPOT ELEVATION
+62.17		DENOTES EDGE OF PAVEMENT SPOT ELEVATION
+60.50		DENOTES SIDEWALK SPOT ELEVATION
+64.27		DENOTES EXISTING SPOT ELEVATION

0 25 50
GRAPHIC SCALE
1" = 25'

Sheet
8 OF 38



APPROVALS	DATE
<i>Amy Pflaum</i> QUALITY CONTROL ENGINEER	9/11/2020
<i>Kamal Takab</i> CONSTRUCTION MANAGEMENT SUPERVISOR	8.31.20
<i>[Signature]</i> WATER, SEWER, STREETS BUREAU CHIEF	09.16.2020
<i>Dennis M. Leach</i> TRANSPORTATION DIRECTOR	09/11/20
<i>Gabriela Koch</i> PROJECT MANAGER	August 24, 2020

REVISIONS	DATE

Project Name and Location
WASHINGTON BOULEVARD & 13TH STREET NORTH IMPROVEMENTS

Designed: ABB
Drawn: CDL
Checked: MSD
Miss Utility Transmittal #: N/A

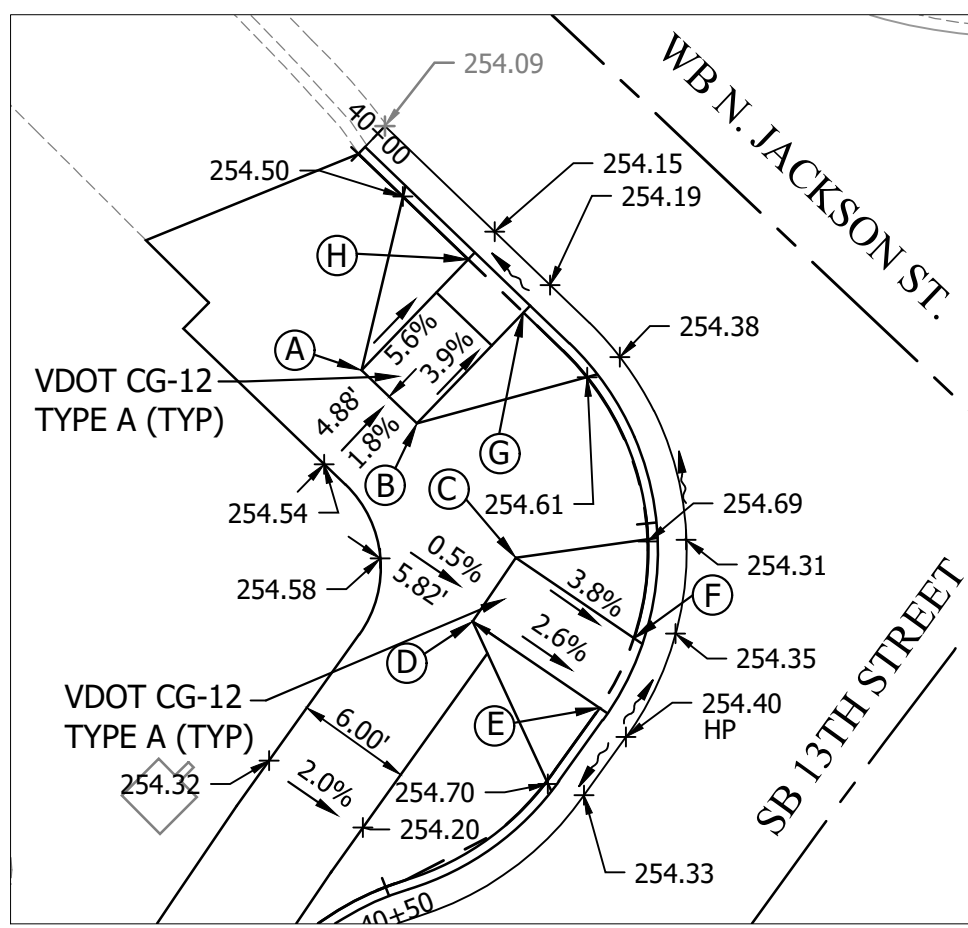
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Archived/Revised APPROVED PLANS
Plotted: September 17, 2020
Plotted by: CL

Scale: 1"=25'



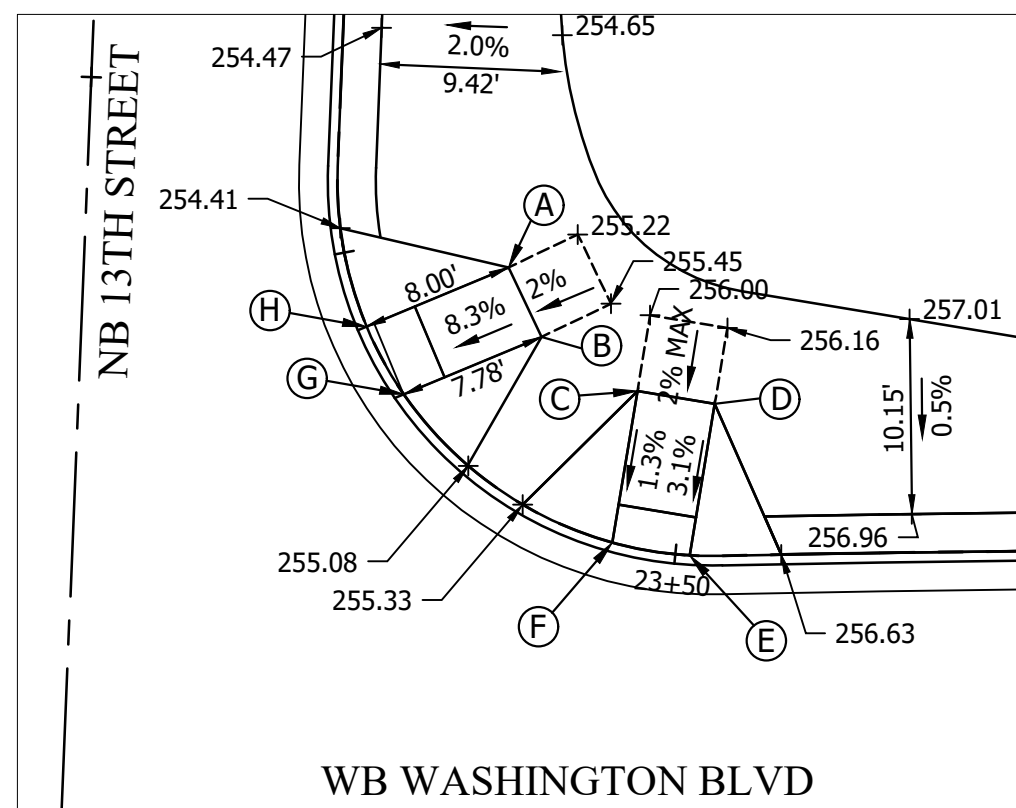
NOTES

- Elevations along curb lines always indicate top of proposed curb elevations along the TOC baselines.
- All detail panes share the same orientation/north arrow.



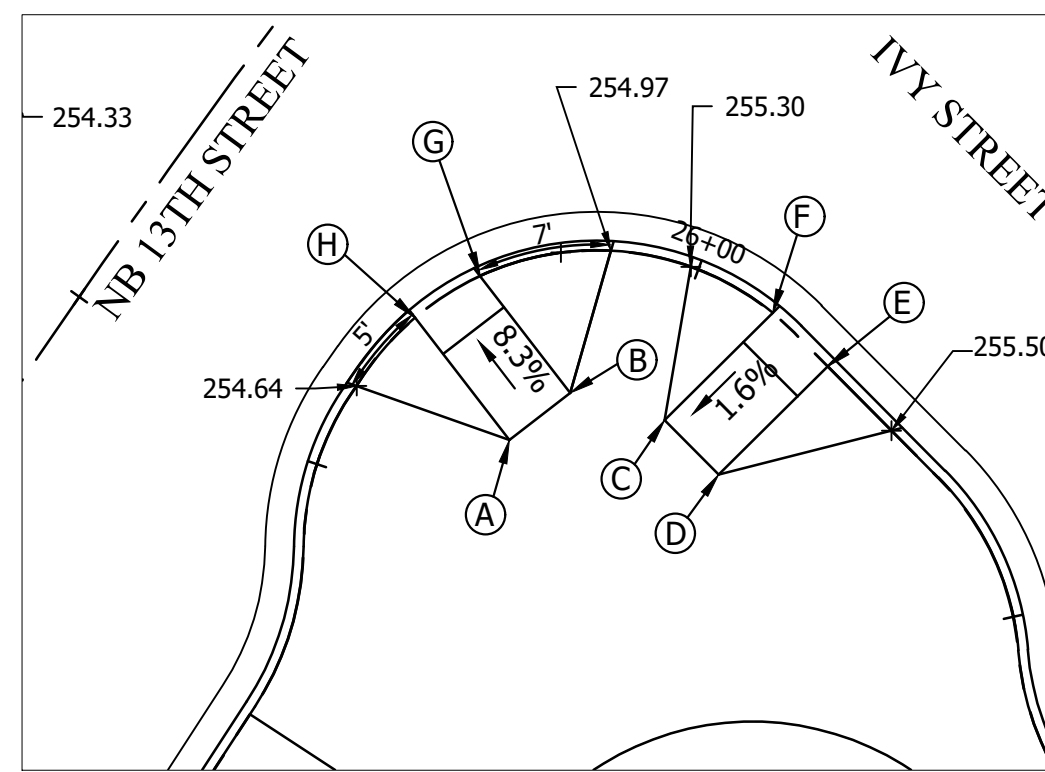
STA.	OFFSET	EL	
A	40+07.93	8.00' RT	254.50
B	40+11.93	8.00' RT	254.40
C	40+31.05	8.00' RT	254.55
D	40+35.10	8.00' RT	254.55
E	40+35.10	0.00' RT	254.29
F	40+31.05	0.00' RT	254.25
G	40+11.93	0.00' RT	254.09
H	40+07.93	0.00' RT	254.05

CURB RAMP CG 12A - WB NORTH JACKSON STREET/ SB 13TH STREET
Scale: 1" = 10'



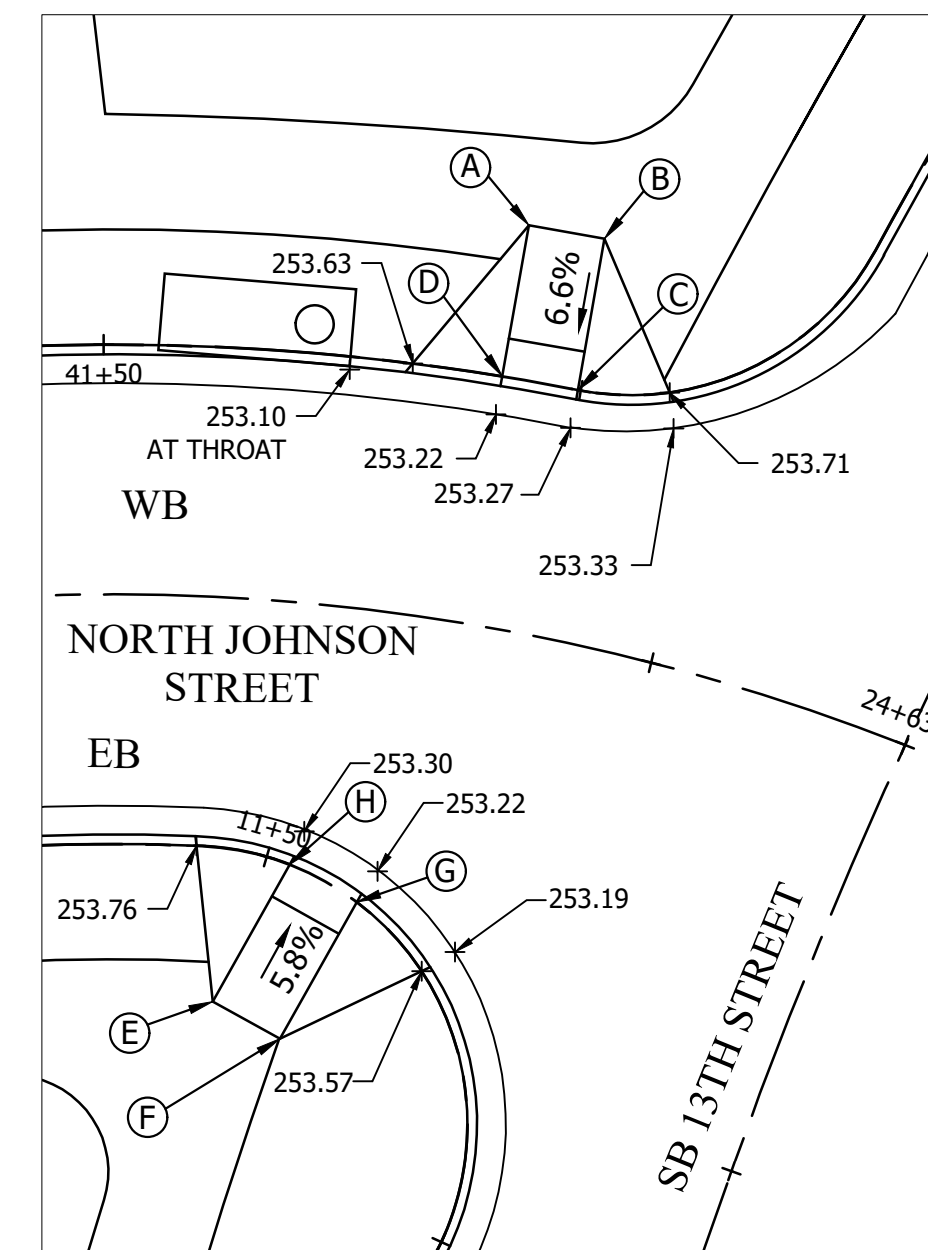
STA.	OFFSET	EL	
A	23+70.96	8.00' RT	255.14
B	23+66.93	7.50' RT	255.37
C	23+54.75	7.93' RT	256.00
D	23+47.84	7.93' RT	256.08
E	23+49.25	0.00' RT	255.83
F	23+53.34	0.00' RT	255.89
G	23+66.93	0.00' RT	254.73
H	23+70.96	0.00' RT	254.48

CURB RAMP CG 12A - WB WASHINGTON BLVD/ NB 13TH STREET
Scale: 1" = 10'



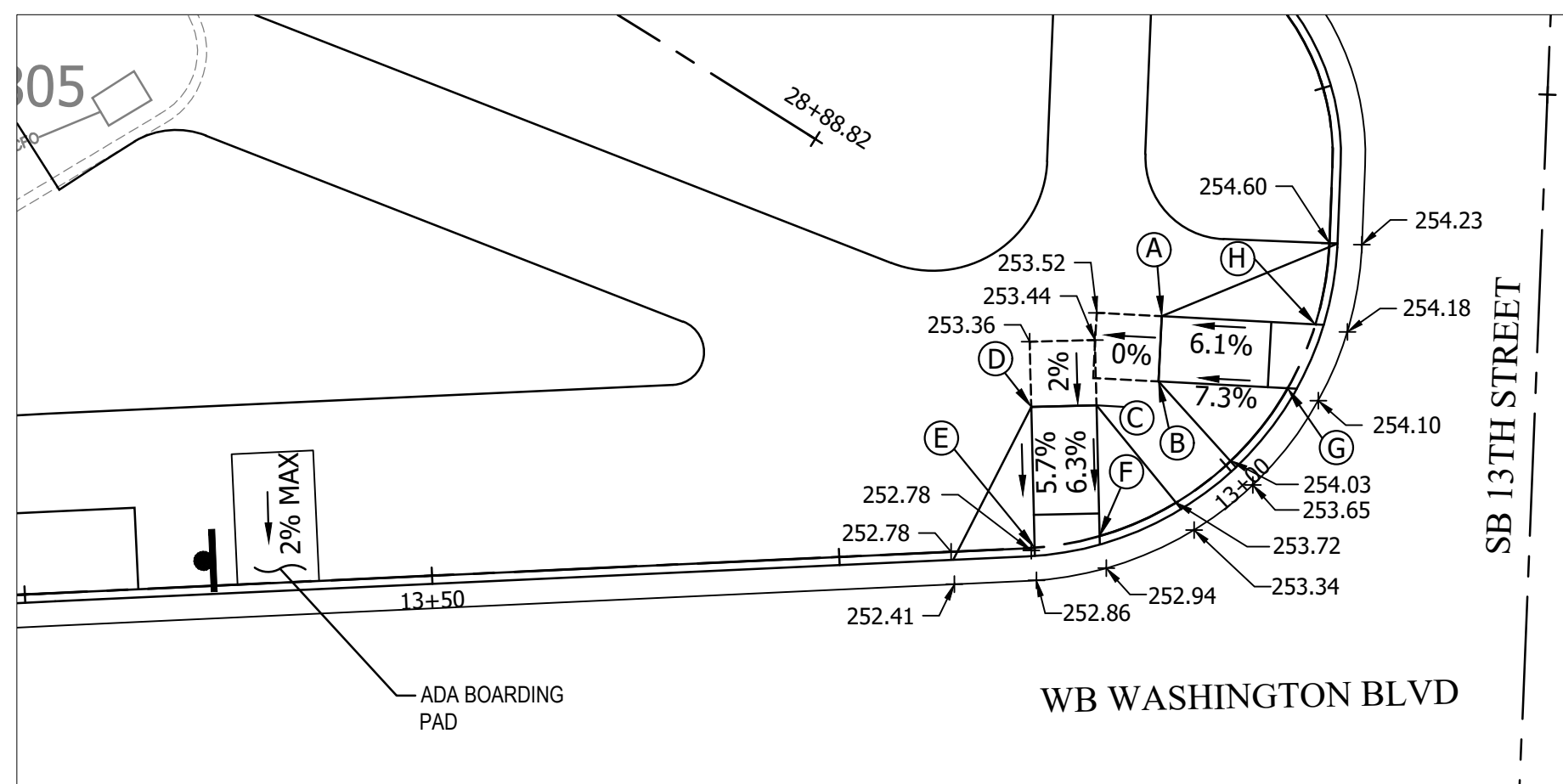
STA.	OFFSET	EL	
A	25+84.28	8.00' RT	254.82
B	25+88.31	8.00' RT	254.90
C	25+85.19	8.00' RT	255.00
D	26+08.50	8.00' RT	255.05
E	26+08.50	0.00' RT	255.17
F	26+04.50	0.00' RT	255.13
G	25+88.31	0.00' RT	254.27
H	25+84.28	0.00' RT	254.23

CURB RAMP CG 12A - NB 13TH STREET
Scale: 1" = 10'



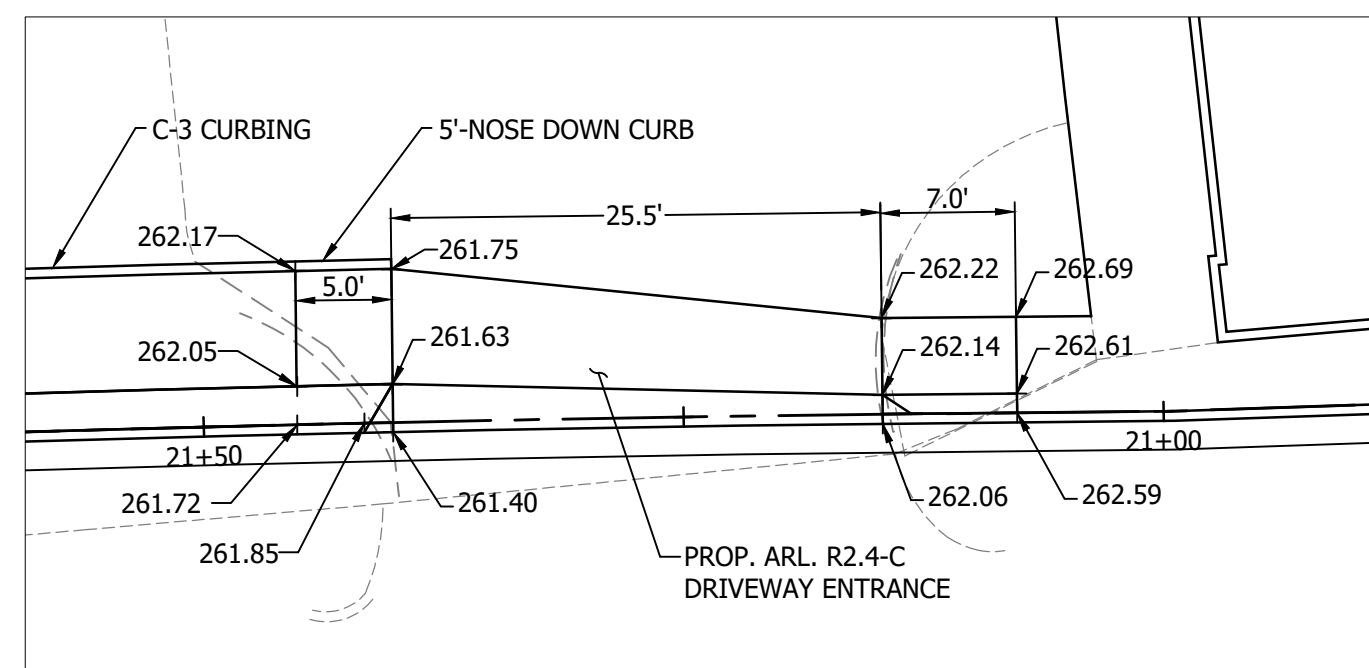
STA.	OFFSET	EL	
A	41+29.16	8.00' RT	253.73
B	41+25.15	8.00' RT	253.73
C	41+25.15	0.00' RT	253.22
D	41+29.16	0.00' RT	253.17
E	11+51.26	8.00' RT	253.70
F	11+55.26	8.00' RT	253.61
G	11+55.26	0.00' RT	253.18
H	11+51.26	0.00' RT	253.25

CURB RAMP CG 12A - EB/WB NORTH JOHNSON STREET/ SB 13TH STREET
Scale: 1" = 10'

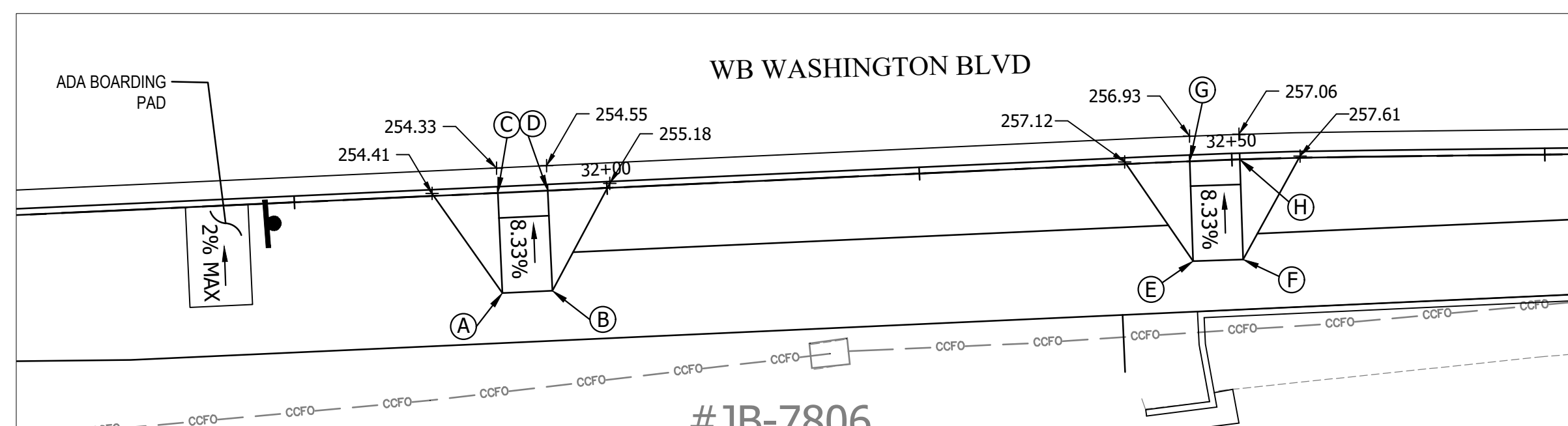


STA.	OFFSET	EL	
A	12+89.64	9.44' RT	253.52
B	12+93.92	8.00' RT	253.44
C	13+08.96	8.00' RT	253.36
D	13+12.27	8.60' RT	253.28
E	13+12.27	0.00' RT	252.78
F	13+08.96	0.00' RT	252.86
G	12+93.92	0.00' RT	254.02
H	12+89.64	0.00' RT	254.10

CURB RAMP CG 12A - WB WASHINGTON BLVD/ SB 13TH STREET
Scale: 1" = 10'



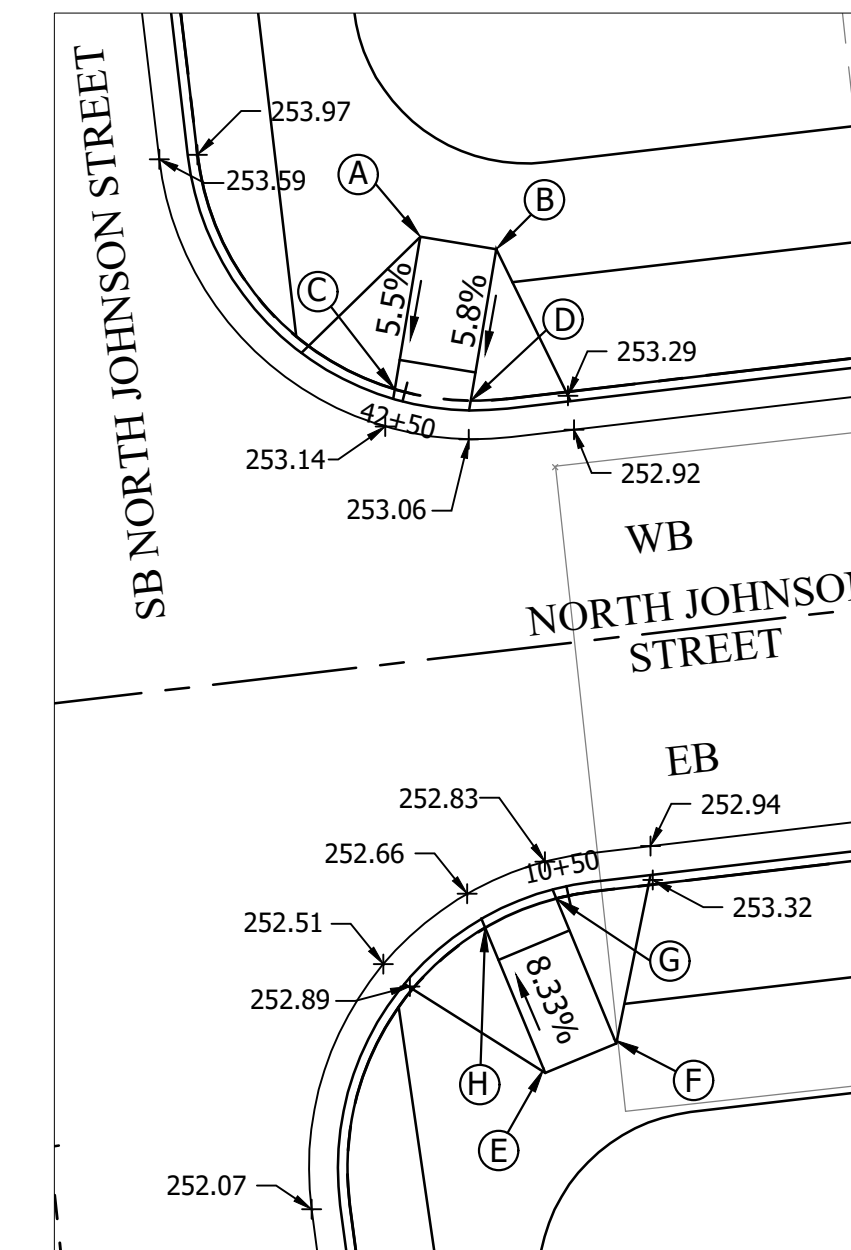
CURB RAMP AT R-2.4C ENTRANCE - WB WASHINGTON BLVD
Scale: 1" = 10'



STA.	OFFSET	EL	
A	31+91.27	8.00' RT	254.91
B	31+95.27	8.00' RT	255.13
C	31+91.27	0.00' RT	254.25
D	31+95.27	0.00' RT	254.47

STA.	OFFSET	EL	
E	32+46.60	8.00' RT	256.89
F	32+50.60	8.00' RT	257.06
G	32+46.60	0.00' RT	256.85
H	32+50.60	0.00' RT	256.98

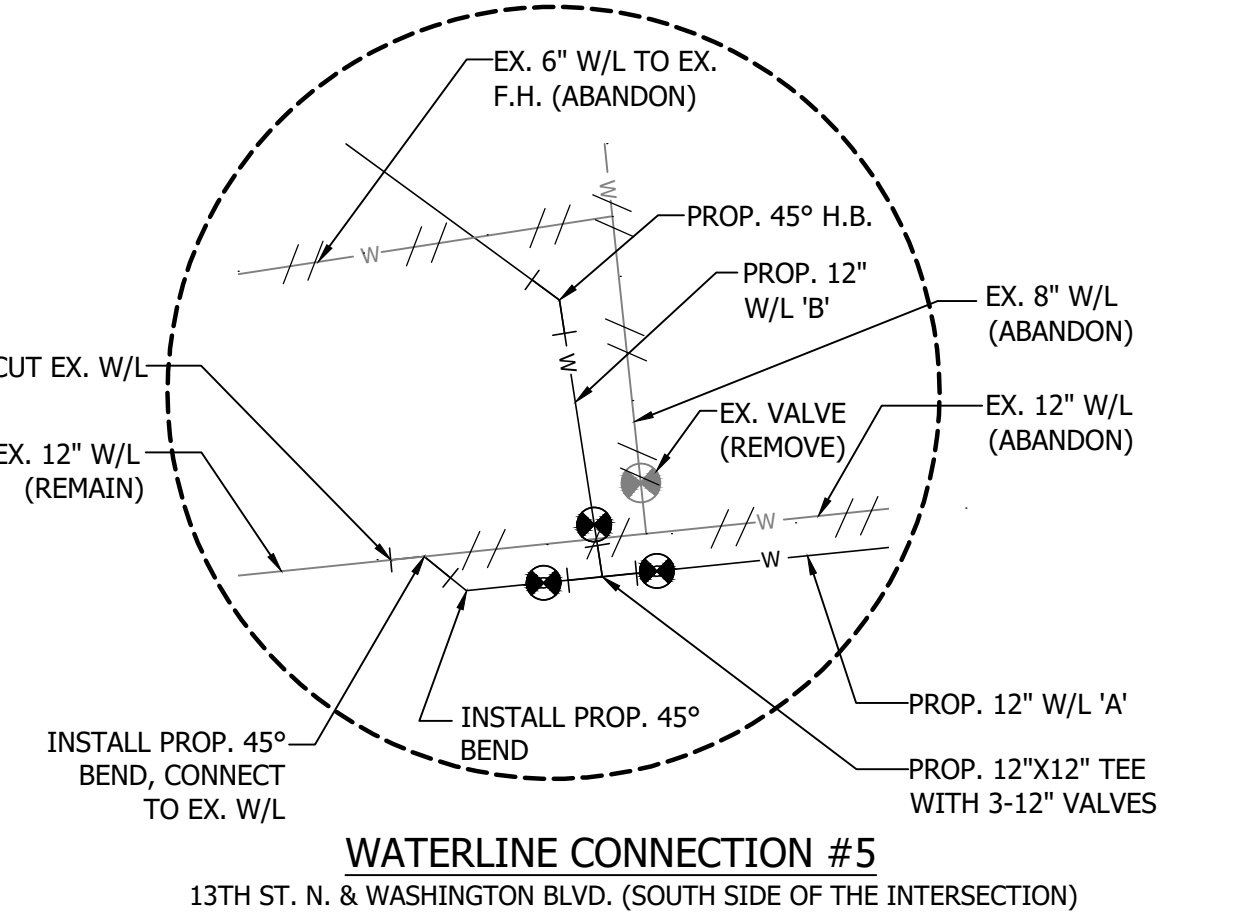
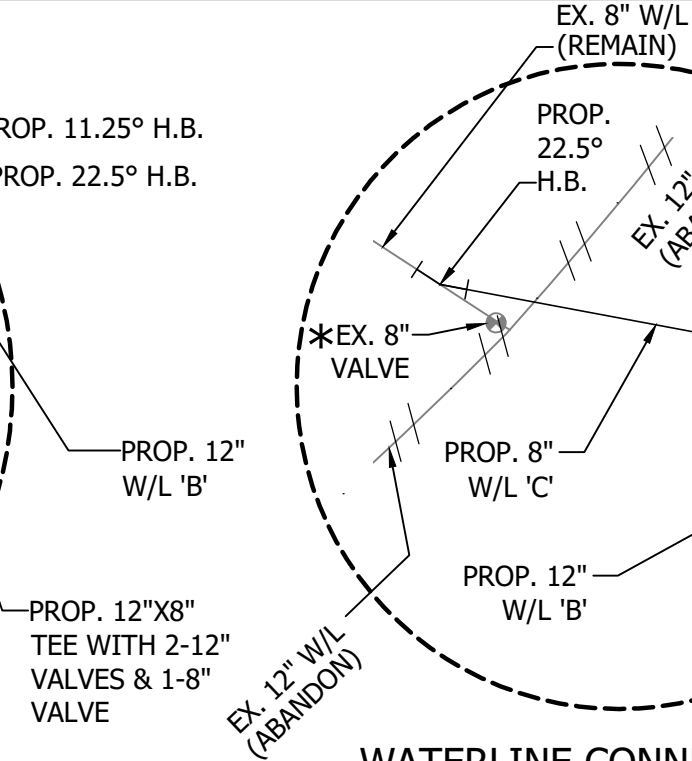
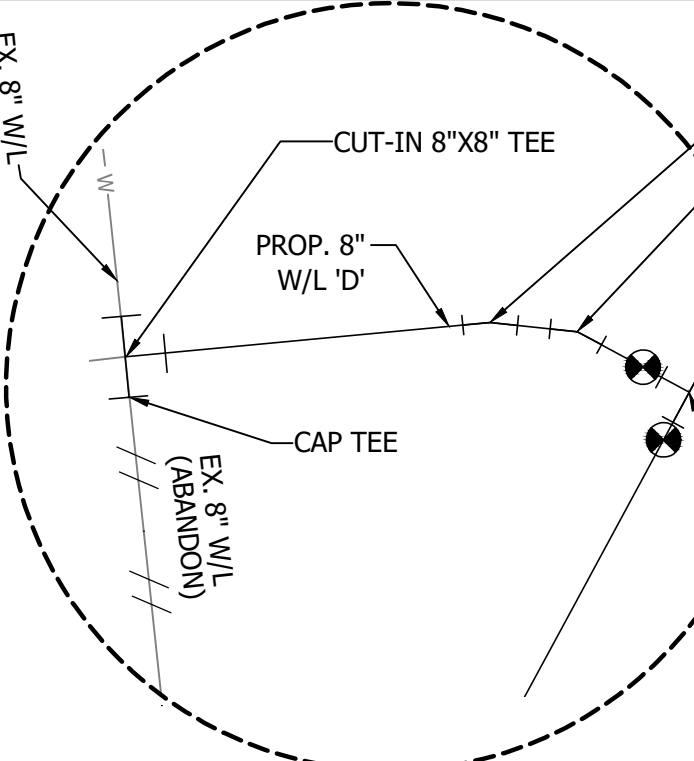
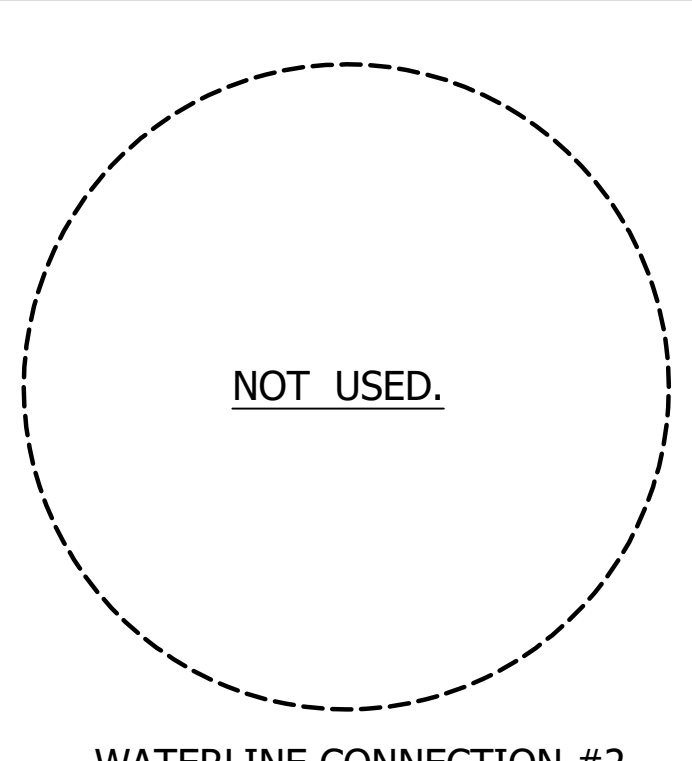
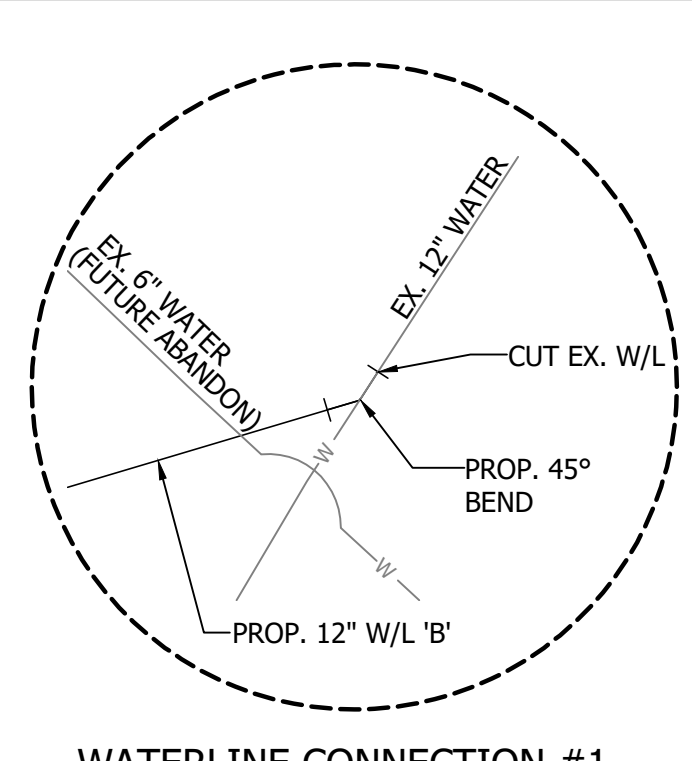
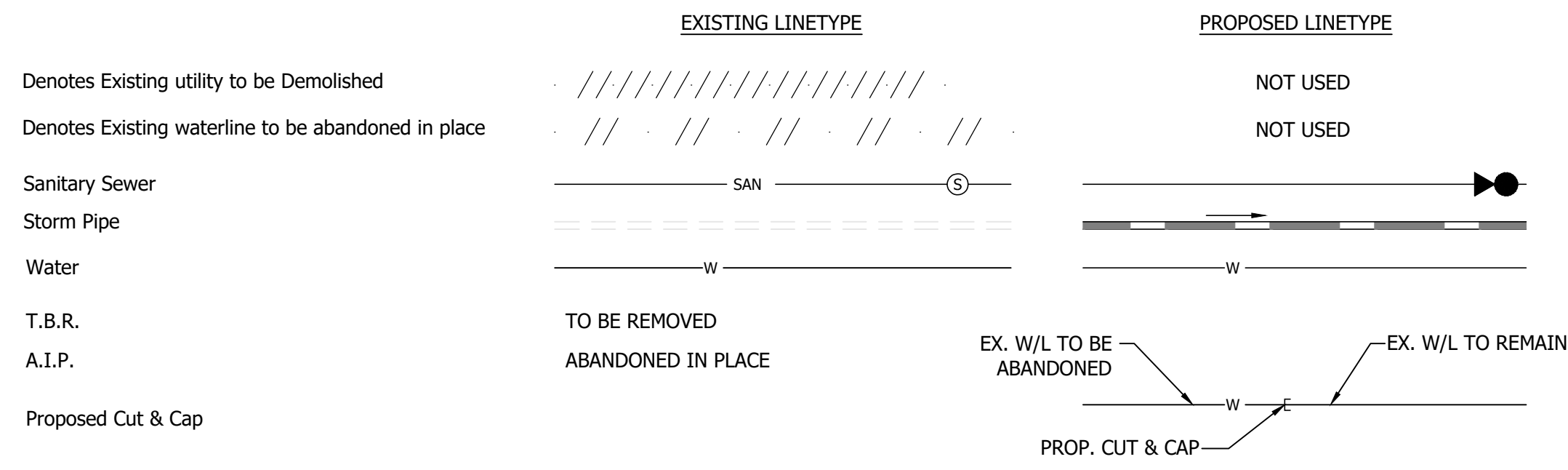
CURB RAMP CG 12B - EB WASHINGTON BLVD
Scale: 1" = 10'



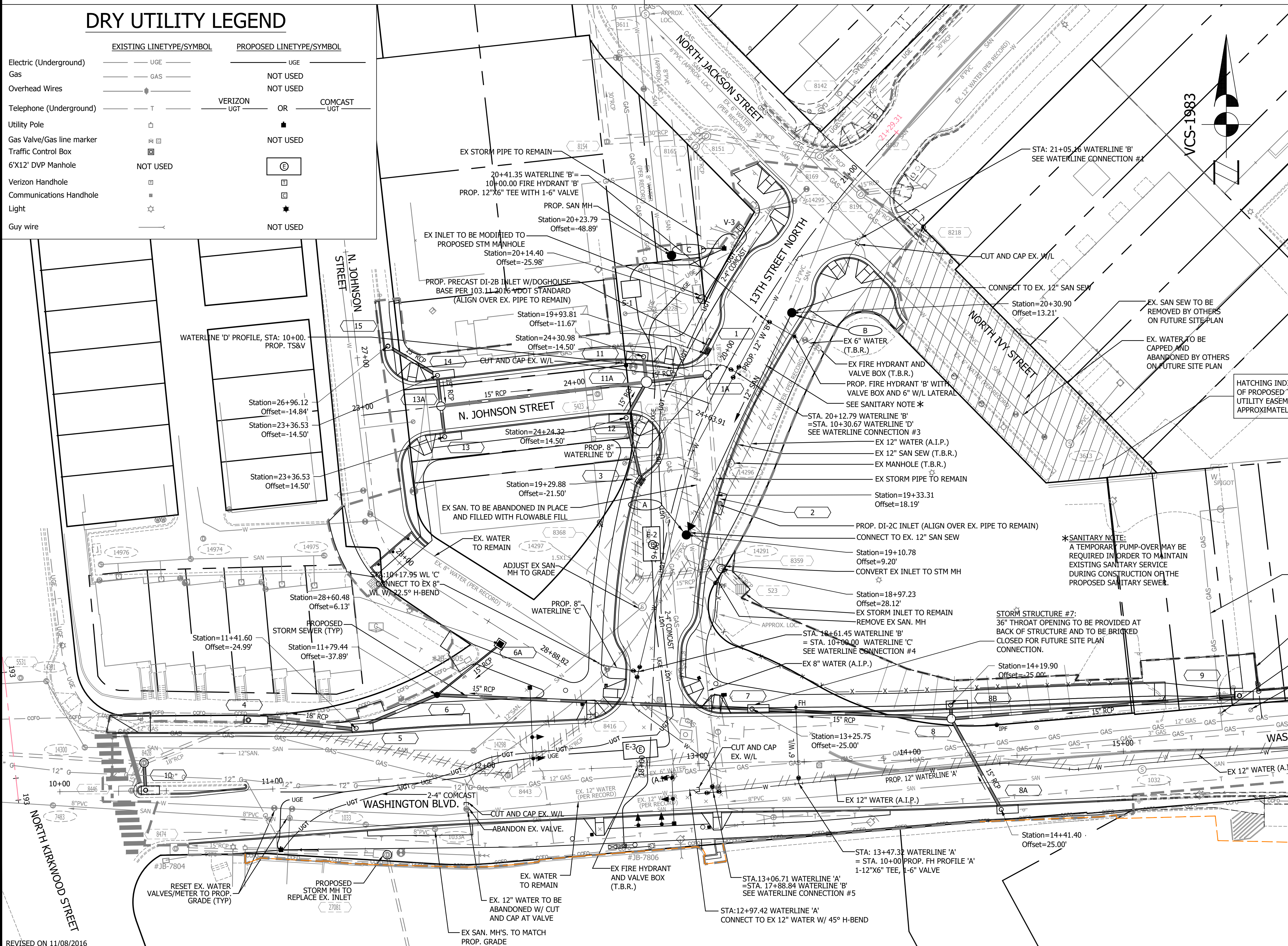
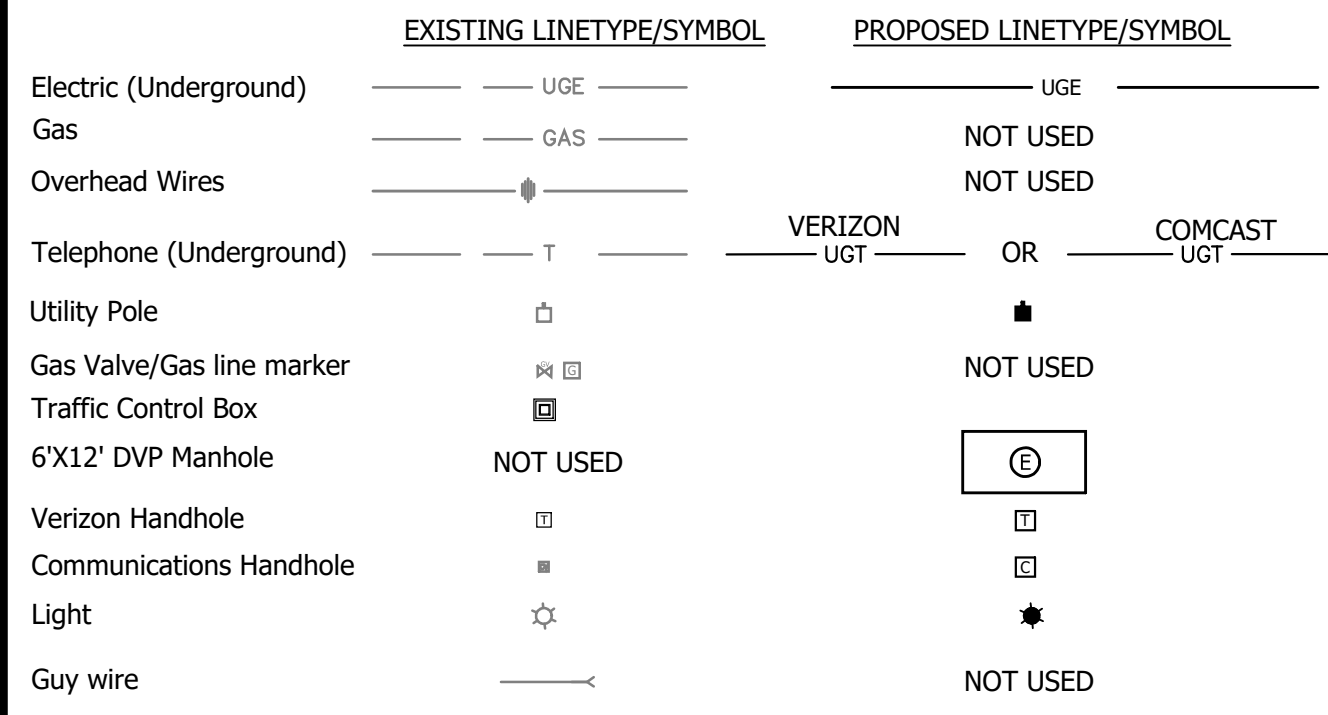
STA.	OFFSET	EL	
A	42+48.09	8.00' RT	253.50
B	42+44.07	8.00' RT	253.44
C	42+48.09	0.00' RT	253.06
D	42+44.07	0.00' RT	252.98
E	10+49.35	8.00' RT	253.18
F	10+55.35	8.00' RT	253.26
G	10+45.35	0.00' RT	252.73
H	10+49.35	0.00' RT	252.51

CURB RAMP CG 12A - SB NORTH JOHNSON STREET AND EB/WB NORTH JOHNSON STREET
Scale: 1" = 10'

WET UTILITY LEGEND



DRY UTILITY LEGEND



CAUTION!!
THE LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE BASED UPON ABOVEGROUND EVIDENCE (INCLUDING BUT NOT LIMITED TO MANHOLES AND INLETS VALVES AND MARKS MADE UPON THE GROUND BY OTHERS) AND ARE SPECULATIVE IN NATURE. THERE MAY ALSO BE OTHER EXISTING UNDERGROUND UTILITIES FOR WHICH THERE IS NO ABOVEGROUND EVIDENCE. EXACT LOCATIONS OF SAID EXISTING UNDERGROUND UTILITY SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO ANY AND ALL CONSTRUCTION.

MISS UTILITY
CALL "MISS UTILITY" AT 811 OR 1-800-552-7001, 5 WORKING DAYS PRIOR TO THE START OF WORK. THE EXCAVATOR MUST NOTIFY ALL PUBLIC UTILITY COMPANIES WITH UNDERGROUND FACILITIES IN THE AREA OF PROPOSED EXCAVATION AND HAVE THOSE FACILITIES LOCATED BY THE UTILITY COMPANIES PRIOR TO COMMENCING EXCAVATION. THE EXCAVATOR IS RESPONSIBLE FOR COMPLIANCE WITH REQUIREMENTS OF LOCAL CODES AND REGULATIONS.

TEST PITS REQUIRED: CONTRACTOR TO VERIFY HORIZONTAL AND VERTICAL LOCATION AND ELEVATION OF EXISTING UTILITY CONTRACTOR TO NOTIFY BOWMAN CONSULTING GROUP OF ANY DISCREPANCIES.

FIRE HYDRANT: FIRE COVERAGE MUST BE IN PLACE BEFORE EXISTING FIRE HYDRANT CAN BE REMOVED.

CONTRACTOR TO FLARE GUTTER PAN FROM 18" TO 24" TO ACCOMMODATE DI-2 INLET STRUCTURES.

RESET EX. GAS VALVE TO PROP. GRADE
REMOVE EX. WATER METER BOX

WATERLINE 'A' STA. 16+26.40
CONNECT TO EX 12" W/L W/ 45° H-BEND

STATION=14+19.90
OFFSET=25.00'

STATION=14+41.40
OFFSET=25.00'

ARLINGTON VIRGINIA

DEPARTMENT OF ENVIRONMENTAL SERVICES
FACILITIES & ENGINEERING DIVISION
ENGINEERING BUREAU
2100 CLARENDON BOULEVARD, SUITE 813
ARLINGTON, VA 22201
PHONE: 703.228.3629
FAX: 703.228.3606

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SEAL

APPROVALS

NAME	DATE
Amy Pflaum	9/11/2020
Kamal Tabak	8.31.20
CONSTRUCTION MANAGEMENT SUPERVISOR	09.16.2020
WATER, SEWER, STREETS BUREAU CHIEF	09/11/20
Dennis M. Leach	August 24, 2020
TRANSPORTATION DIRECTOR	
Gabriela Koch	
PROJECT MANAGER	

REVISIONS

NO.	DATE

UTILITY PLAN
WASHINGTON BOULEVARD & 13TH STREET NORTH IMPROVEMENTS

Project Name and Location

WASHINGTON BLVD. FROM NORTH KIRKWOOD ROAD TO FAIRFAX DRIVE
13TH STREET NORTH FROM WASHINGTON BLVD. TO NORTH JACKSON STREET & NORTH JOHNSON STREET FROM 13TH STREET NORTH TO 150' WEST

Designed: ABB
Drawn: CDI
Checked: MSD
Miss Utility Transmittal #: N/A

Filename: 9-UTILITY-DWG
Path: C:\DATA\2023\DESIGN_CAD\9100 PCT
Revised Approved Plans
Plotted: September 17, 2020
Plotted by: CL

Scale: 1"=25'

GRAPHIC SCALE
1" = 25'

Sheet
9 OF 38

DRY UTILITY LEGEND

Table with columns for EXISTING LINETYPE/SYMBOL and PROPOSED LINETYPE/SYMBOL. Lists various utility types like Electric (Underground), Gas, Telephone (Underground), Arlington County Traffic Control, etc., with their corresponding line styles and symbols.

APPROVAL OF THIS CONCEPTUAL DRY UTILITY PLAN SHALL ALLOW FOR THE ISSUANCE OF RIGHT-OF-WAY PERMITS FOR INSTALLATION OF CONDUITS, MANHOLES, HAND HOLES, ETC... WHICH WILL BE CONSTRUCTED BY THE DEVELOPER FOR THE UTILITY COMPANY'S USE, RIGHT-OF-WAY PERMIT FOR INSTALLATION OF DVP FACILITY SUCH AS POLES, CABLE, ELECTRICAL DEVICES (TRANSFORMER AND SWITCH BOXES) SHALL NOT BE ISSUED BEFORE APPROVAL OF THE FINAL DRY UTILITY PLAN.

CAUTION!!
THE LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE BASED UPON ABOVEGROUND EVIDENCE (INCLUDING BUT NOT LIMITED TO MANHOLES AND INLETS VALVES AND MARKS MADE UPON THE GROUND BY OTHERS) AND ARE SPECULATIVE IN NATURE. THERE MAY ALSO BE OTHER EXISTING UNDERGROUND UTILITIES FOR WHICH THERE IS NO ABOVEGROUND EVIDENCE. EXACT LOCATIONS OF SAID EXISTING UNDERGROUND UTILITY SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO ANY AND ALL CONSTRUCTION.

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CALL "MISS UTILITY" AT 811 OR 1-800-552-7001, 5 WORKING DAYS PRIOR TO THE START OF WORK. THE EXCAVATOR MUST NOTIFY ALL PUBLIC UTILITY COMPANIES WITH UNDERGROUND FACILITIES IN THE AREA OF PROPOSED EXCAVATION AND HAVE THOSE FACILITIES LOCATED BY THE UTILITY COMPANIES PRIOR TO COMMENCING EXCAVATION. THE EXCAVATOR IS RESPONSIBLE FOR COMPLIANCE WITH REQUIREMENTS OF LOCAL CODES AND REGULATIONS.

TEST PITS REQUIRED: CONTRACTOR TO VERIFY HORIZONTAL AND VERTICAL LOCATION AND ELEVATION OF EXISTING UTILITY CONTRACTOR TO NOTIFY BOWMAN CONSULTING GROUP OF ANY DISCREPANCIES.

Dominion Commitment/Conceptual Design Acceptance Letter

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

July 20, 2018

Mr. Abe Bibizadeh
2100 Clarendon Blvd., Suite 800
Arlington, VA 22201

Re: ROAD IMPROVEMENT PLANS FOR WASHINGTON BOULEVARD & 13TH STREET NORTH, ARLINGTON, VA

Dear Mr. Bibizadeh:
BOWMAN CONSULTING (in coordination with Arlington County) has developed a conceptual dry utility plan (attached) for the referenced project in conjunction with the site civil engineering plan. This dry utility plan dated 7/20/18 considers the installation of a new underground utility system to accommodate the removal of the existing overhead utility wires and, utility poles that are adjacent to the site and/or permanent service to the buildings.

Dominion Virginia Power (DVP) has completed a conceptual review and accepts the preliminary design of ROAD IMPROVEMENT PLANS FOR WASHINGTON BOULEVARD & 13TH STREET NORTH for the installation of conduit and manholes. DVP acknowledges that based on the current existing and projected load information provided, the current and existing capacity on DVP's systems, DVP's current design standards, and other information provided at the time of the DVP conceptual review, BOWMAN CONSULTING'S dry utility plan meets the DVP requirements and commits to utilizing the underground infrastructure for installation of the DVP cable and other necessary facilities to underground the existing overhead utilities and/or provide permanent service to the buildings, if the underground infrastructure and installation meets DVP's requirements. DVP will endeavor to complete their final engineering design plan in a manner that will not result in additional trenching, conduit or any underground type work beyond what is shown on this conceptual dry utility plan. Should there be a change in any of the following, DVP reserves the right to adjust its design accordingly to assure the operational integrity of its system:

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

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

Should you have any questions regarding this plan, feel free to contact Scott Delgado at 703-464-1000.

Sincerely,

M. Scott Delgado
Principal
Bowman Consulting

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

Designated Dominion Supervisor: _____ (Print Full Name)

Signature: _____ Date: _____

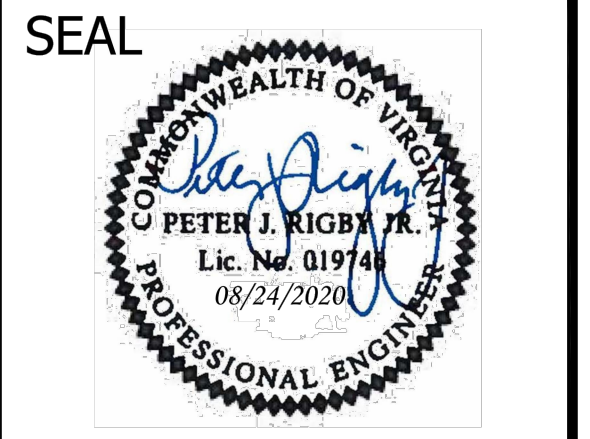
DVP Project Number: _____

Last Updated: May 18, 2011.



DEPARTMENT OF ENVIRONMENTAL SERVICES
FACILITIES & ENGINEERING DIVISION
ENGINEERING BUREAU
2100 CLARENDON BOULEVARD, SUITE 813
ARLINGTON, VA 22201
PHONE: 703.228.3629
FAX: 703.228.3606

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APPROVALS DATE

- Amy Pfauam 9/11/2020 (QUALITY CONTROL ENGINEER)
Kamal Taktak 8.31.20 (CONSTRUCTION MANAGEMENT SUPERVISOR)
Dennis M. Leach 09.16.2020 (WATER, SEWER, STREETS BUREAU CHIEF)
Gabriela Kock August 24, 2020 (TRANSPORTATION DIRECTOR)
PROJECT MANAGER

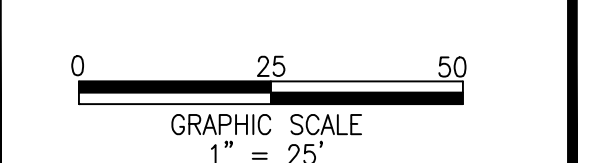
REVISIONS DATE

Table for REVISIONS with columns for description and date. It is currently empty.

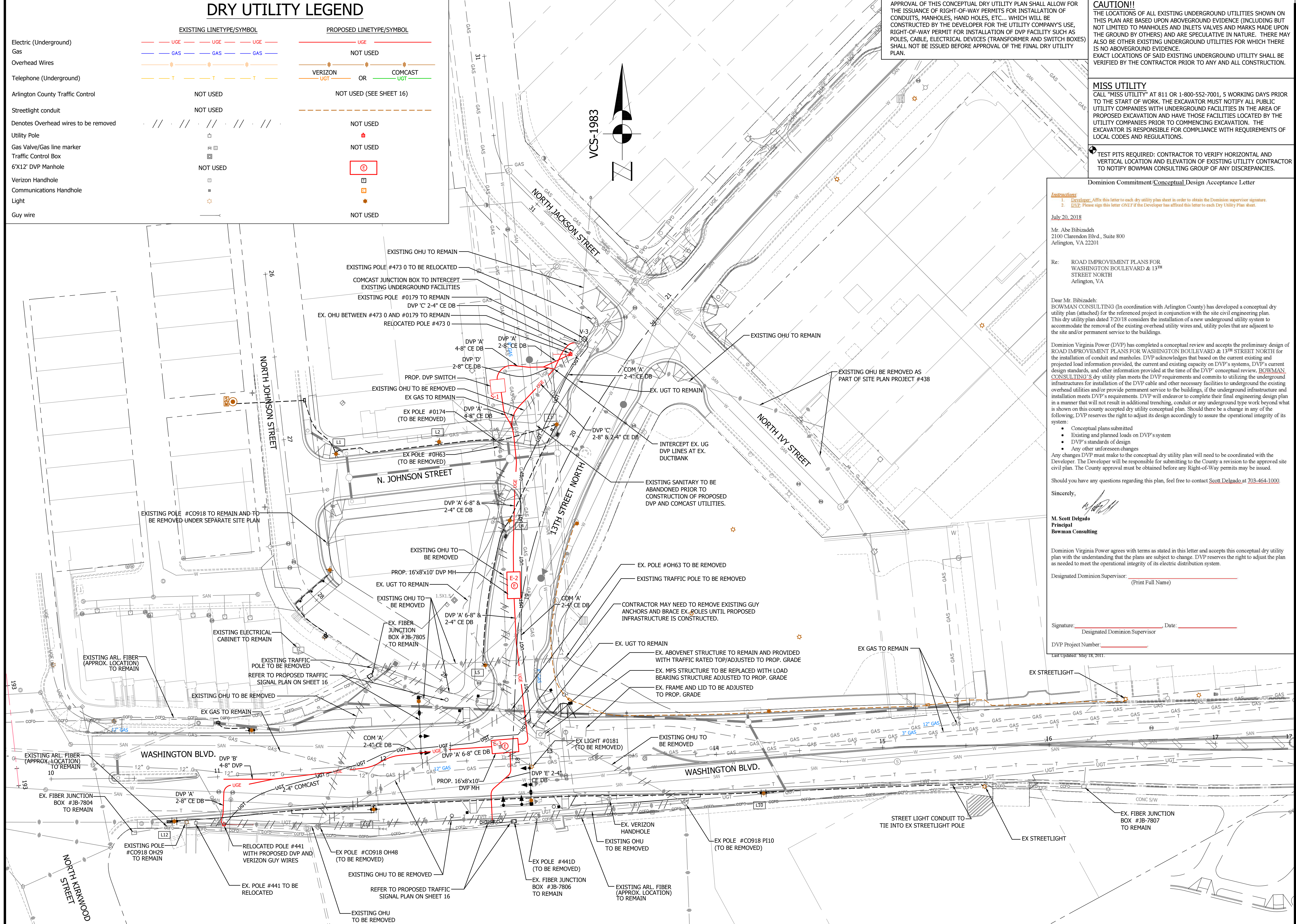
DRY UTILITY PLAN
WASHINGTON BOULEVARD & 13TH STREET NORTH IMPROVEMENTS
WASHINGTON BLVD. FROM NORTH KIRKWOOD ROAD TO FAIRFAX DRIVE
13TH STREET NORTH FROM WASHINGTON BLVD. TO NORTH JACKSON STREET & NORTH JOHNSON STREET FROM 13TH STREET NORTH TO 150' WEST

Designed: ABB
Drawn: CDI
Checked: MSD
Miss Utility Transmittal #: N/A

Filename: 9-UTILITY-DRY9-UTILITY-DRY.DWG
Path: C:\DATA\B2013\DESIGN_CAD\B2013\9-9-18\REVISED APPROVED PLANS
Plotted: September 17, 2020
Plotted by: CL
Scale: 1"=25'



Sheet 9A OF 38



WET UTILITY LEGEND

EXISTING LINETYPE		PROPOSED LINETYPE	
Denotes Existing utility to be Demolished		NOT USED	
Denotes Existing waterline to be abandoned in place		NOT USED	
Sanitary Sewer			
Storm Pipe			
Water			
T.B.R.	TO BE REMOVED		
A.I.P.	ABANDONED IN PLACE		

CAUTION!!
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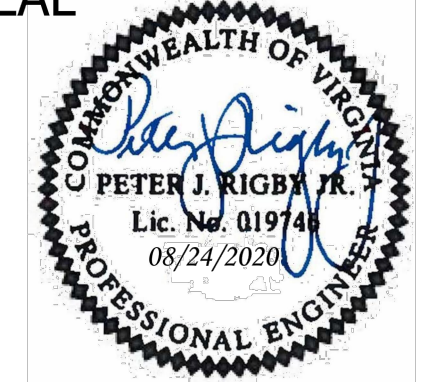
TEST PITS REQUIRED: CONTRACTOR TO VERIFY HORIZONTAL AND VERTICAL LOCATION AND ELEVATION OF EXISTING UTILITY CONTRACTOR TO NOTIFY BOWMAN CONSULTING GROUP OF ANY DISCREPANCIES.



DEPARTMENT OF ENVIRONMENTAL SERVICES
 FACILITIES & ENGINEERING DIVISION
 ENGINEERING BUREAU
 2100 CLARENDON BOULEVARD, SUITE B13
 ARLINGTON, VA 22201
 PHONE: 703.228.3629
 FAX: 703.228.3606

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SEAL

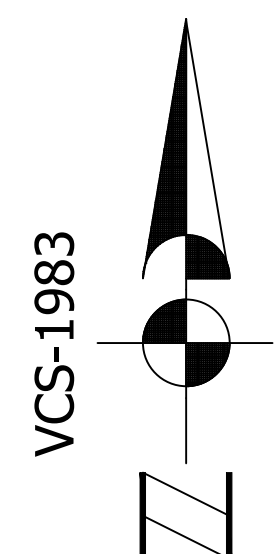
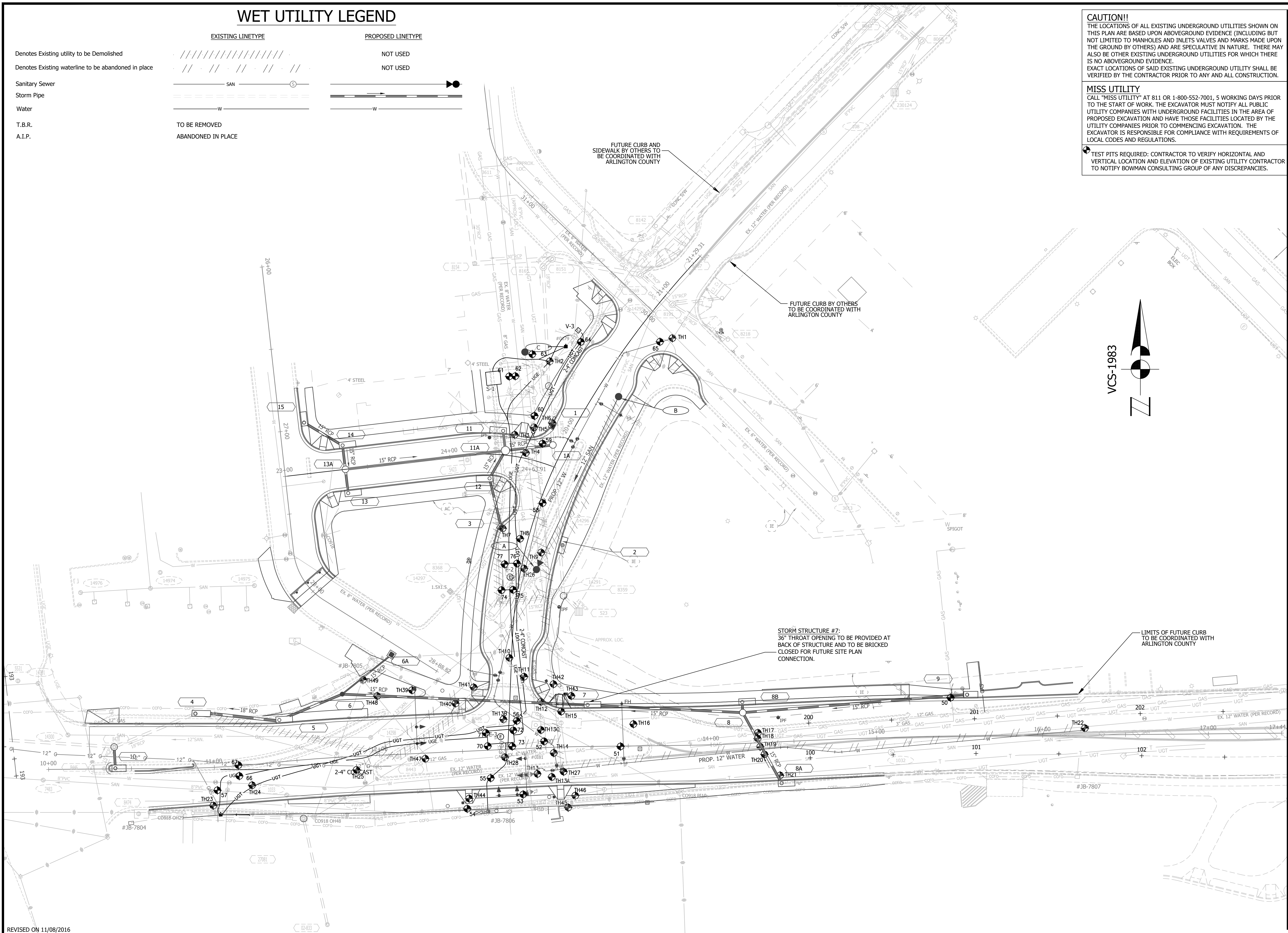


APPROVALS DATE

<i>Amy Pflaum</i>	9/11/2020
QUALITY CONTROL ENGINEER	
<i>Kamal Takah</i>	8.31.20
CONSTRUCTION MANAGEMENT SUPERVISOR	
<i>Allyssa</i>	09.16.2020
WATER, SEWER, STREETS BUREAU CHIEF	
<i>Dennis M. Leach</i>	09/11/20
TRANSPORTATION DIRECTOR	
<i>Gabriela Koch</i>	August 24, 2020
PROJECT MANAGER	

REVISIONS DATE

REVISIONS	DATE



Project Name and Location
WASHINGTON BOULEVARD & 13TH STREET NORTH IMPROVEMENTS
TEST HOLE LOCATION PLAN
 WASHINGTON BLVD. FROM NORTH KIRKWOOD ROAD TO FAIRFAX DRIVE
 13TH STREET NORTH FROM WASHINGTON BLVD. TO NORTH JACKSON STREET & NORTH JOHNSON STREET FROM 13TH STREET NORTH TO 150' WEST

Designed: ABB
 Drawn: CDL
 Checked: MSD
 Miss Utility Transmittal #: N/A
 Filename: 9A1-TEST HOLES9A1-TEST HOLES.DWG
 Path: C:\DATA\2023\DESIGN_CAD\90100.PCT
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 Plotted: September 17, 2020
 Plotted by: CL

Scale: 1"=25'

 GRAPHIC SCALE
 1" = 25'

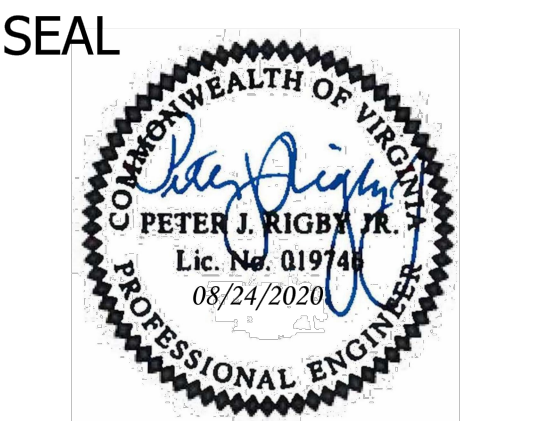
TEST HOLE	EASTING	NORTHING	SURFACE ELEV. (FEET)	TOP FACILITIES ELEV. (FEET)	DEPTH (FEET)	OWNER	TYPE OF FACILITY
1	11881759.9100	7009002.8440	255.11	250.36	4.75	AC	12.75" DUCTILE IRON WATER LINE
2	11881685.9380	7008988.8670	254.42	253.99	0.43	DOMINION	56" ROUGH POUR CONCRETE ELECTRIC BANK
3	11881664.7280	7008944.5570	254.00	250.48	3.52	WG	10" PAPER WRAPPED STEEL GAS LINE
4	11881671.5210	7008933.6080	253.99	248.94	5.05	AC	12.5" CAST IRON WATERLINE
5	11881676.4510	7008949.0830	254.03	A=248.93 B=248.37 C=246.89	A=5.10 B=5.66 C=7.14	A=AC B=AC C=AT&T	"A=12-1/2" PVC SANITARY B=15" RCP STORM C=37" ROUGH CONCRETE COMMUNICATION DUCTBANK"
6	11881687.3900	7008951.6770	254.03	251.01	3.02	VERIZON	24" SMOOTH POUR CONCRETE COMMUNICATION DUCTBANK
7	11881657.5690	7008888.0780	253.12	248.33	4.79	VERIZON	24" ROUGH POUR CONCRETE COMMUNICATION DUCTBANK
8	11881667.9970	7008881.8090	253.28	249.05	4.23	WG	10" PAPER WRAPPED STEEL GAS LINE
9	11881680.7220	7008873.4690	253.14	248.60	4.54	ATT	32" ROUGH POUR CONCRETE COMMUNICATION DUCTBANK
10	11881661.5460	7008809.9440	253.13	248.79	4.34		24" ROUGH POUR CONCRETE COMMUNICATION DUCTBANK
11	11881670.4630	7008798.5590	253.54	249.94	3.60	ATT	37" ROUGH CONCRETE COMMUNICATION DUCTBANK
12	11881680.5970	7008783.4400	254.57	A=251.71 B=249.91	A=2.86 B=4.66	A=WG	"A=10" PAPER WRAPPED STEEL GAS LINE B=37" ROUGH POUR CONCRETE COMMUNICATION DUCTBANK"
13	11881678.4430	7008739.9340	256.54	251.49	5.05	AC	12.5" CAST IRON WATER LINE
13A	11881687.1570	7008738.1140	256.90	253.85	3.05		4.5" PVC COMMUNICATION CONDUIT
13B	11881657.9550	7008772.8520	255.03	251.35	3.68		2.5" PE COMMUNICATION CONDUIT
13C	11881680.6030	7008766.4630	256.23	252.96	3.27		4.5" PVC COMMUNICATION CONDUIT
14	11881688.3810	7008752.5820	257.56	252.80	4.76	WG	12" PAPER WRAPPED STEEL GAS LINE
15	11881692.8110	7008777.5650	255.57	A=254.51 B=249.74	A=1.06 B=5.83	A=VDOT B=ATT	"A=2" STEEL ELECTRIC CONDUIT, B=30" ROUGH POUR CONCRETE COMMUNICATION DUCTBANK"
16	11881736.4180	7008769.9940	257.37	249.62	7.75	ATT	29" ROUGH POUR CONCRETE COMMUNICATION DUCTBANK
17	11881811.4870	7008764.7110	259.64	256.32	3.32	WG	12.5" PAPER WRAPPED STEEL GAS LINE
18	11881811.3260	7008761.2710	259.71	A=255.96 B=252.39	A=3.75 B=7.32	A= WG B= ATT	"A=3.5" EPOXY COATED STEEL GAS LINE, B=26" ROUGH POUR CONCRETE COMMUNICATION DUCTBANK"
19	11881812.8060	7008756.3680	259.77	257.78	1.99	WG	3.5" EPOXY COATED STEEL GAS LINE
20	11881815.4330	7008751.7200	259.86	255.55	4.31	AC	12.5" CAST IRON WATER LINE
21	11881824.8580	7008739.0430	260.02	256.98	3.04	MCI	28" ROUGH POUR CONCRETE COMMUNICATION DUCTBANK
22	11882008.6390	7008767.5540	264.32	259.59	4.73	AC	12.5" CAST IRON WATER LINE
23	11881483.0050	7008720.7690	246.08	244.09	1.99	MCI	15" ROUGH POUR CONCRETE COMMUNICATION DUCTBANK
24	11881506.4700	7008733.1010	247.52	243.02	4.50	AC	12.5" CAST IRON WATER LINE
25	11881569.4260	7008742.4210	250.82	247.34	3.48	WG	12" PAPER WRAPPED STEEL GAS LINE
26	11881670.4420	7008863.8250	253.54	248.08	5.46	WG	10" PAPER WRAPPED STEEL GAS LINE
27	11881694.2840	7008741.2940	257.53	254.51	2.72	MCI	25" ROUGH POUR CONCRETE COMMUNICATION
28	11881658.8670	7008749.9760	256.41	251.85	4.56	WG	12" PAPER WRAPPED STEEL GAS LINE
29	11881602.8680	7008790.4570	251.00	239.09	11.91		CLEAR HOLE / NO UTILITY
30	11881629.0610	7008782.4100	252.29	240.74	11.55		CLEAR HOLE / NO UTILITY
31	11881640.0720	7008792.1480	252.55	240.92	11.63		CLEAR HOLE / NO UTILITY
32	11881688.1900	7008794.1350	254.39	243.67	10.72		CLEAR HOLE / NO UTILITY
33	11881698.9050	7008786.9900	255.07	244.82	10.25		CLEAR HOLE / NO UTILITY
34	11881637.3290	7008725.0610	254.29	242.66	11.63		CLEAR HOLE / NO UTILITY
35	11881697.0840	7008719.6620	257.18	251.72	5.46		2" PE UNKNOWN FUNCTION CONDUITS
36	11881701.3320	7008726.8320	256.85	A=254.48 B=253.99	A=2.37 B=2.86	B=MCI	"A=4.5" PVC COMMUNICATION CONDUIT B=25" ROUGH POUR CONCRETE COMMUNICATION DUCTBANK"
37	11881610.9220	7008749.1380	253.75	248.37	5.38	MCI	21" ROUGH CONCRETE COMMUNICATION DUCTBANK
38	11881581.9220	7008786.9300	249.99	246.92	3.07		22" ROUGH POUR CONCRETE COMMUNICATION DUCTBANK
39	11881573.3530	7008796.6950	249.26	246.44	2.82		22" ROUGH POUR CONCRETE COMMUNICATION DUCTBANK

TEST HOLE	EASTING	NORTHING	SURFACE ELEV. (FEET)	TOP FACILITIES ELEV. (FEET)	DEPTH (FEET)	OWNER	TYPE OF FACILITY
50	11881927.7000	7008785.9600	256.73		6.00	NONE	NONE
51	11881728.6100	7008756.5360	258.51	254.31	4.20	WG	12.5" EPOXY COATED STEEL GAS LINE
52	11881682.5260	7008759.5560	256.56	A = 253.02 B = 251.75	A = 3.54 B = 4.81	A = WG B = AC	A = 8.5" EPOXY COATED STEEL GAS LINE B = 6.5" CAST IRON WATER LINE
53	11881669.8980	7008727.5970	255.80		12	NONE	NONE
54	11881636.1600	7008718.9810	253.85	A = 251.09 B = 249.42	A = 2.76 B = 4.43		20" TERRACOTTA/CONCRETE COMMUNICATION DUCTBANK. A=TOP, B=BOTTOM
55	11881650.3150	7008737.4330	255.14	249.83	5.31	AC	12.5" CAST IRON WATER LINE
56	11881666.0260	7008771.9660	255.42	251.75	3.67		(4) 2.25 PE COMMUNICATION CONDUITS
57	11881485.4860	7008730.0840	246.45	239.98	6.47	AC	10" RCP SANITARY LINE
58	11881677.8550	7008898.8160	253.36	A = 248.14 B = 245.86	A = 5.22 B = 7.50		40" ROUGH POUR CONCRETE COMMUNICATION CONDUITS. A=TOP, B=BOTTOM
59	11881681.5590	7008939.2290	253.84	A = 250.85 B = 250.35	A = 2.99 B = 3.49		22" ROUGH POUR CONCRETE COMMUNICATION DUCTBANK. A=TOP, B=BOTTOM
60	11881676.7550	7008955.9880	253.85	A = 247.03 B = 244.73	A = 6.82 B = 9.12		42" ROUGH POUR CONCRETE COMMUNICATION DUCTBANK A=TOP, B=BOTTOM
61	11881661.4980	7008979.7540	254.09	250.37	3.72		6.5" EPOXY COATED STEEL GAS LINE
62	11881665.1560	7008979.8740	253.89	249.08	4.81		6.75" DUCTILE IRON WATER LINE
63	11881675.3910	7008993.1520	254.35	A = 249.68 B = 247.40	A = 4.67 B = 6.95		42" ROUGH POUR CONCRETE COMMUNICATION DUCTBANK A=TOP, B=BOTTOM
64	11881704.6370	7009000.5700	254.38	A = 251.88 B = 251.17	A = 2.50 B = 3.21		22" ROUGH POUR CONCRETE COMMUNICATION DUCTBANK. A=TOP, B=BOTTOM
65	11881752.3520	7009000.6380	254.78	251.14	3.64		6.5" CAST IRON WATER LINE
66	11881498.7080	7008738.6980	246.78		12	NONE	NONE
67	11881498.1770	7008745.1840	247.28	242.94	4.34	WG	12" EPOXY COATED STEEL GAS LINE
70	11881648.5380	7008756.7470	255.49		12	NONE	NONE
71	11881647.3640	7008764.6950	255.18		12	NONE	NONE
72	11881663.9700	7008766.2000	255.62		12	NONE	NONE
73	11881663.2660	7008756.5310	256.20	A = 252.27 B = CLEAR HOLE	A = 3.93 B = 12	A = AC B = NONE	A=TOP 6.75" DUCTILE IRON WATER LINE, B=NONE
74	11881656.8390	7008850.8140	252.63		12	NONE	NONE
75	11881663.7850	7008851.0260	253.13		12	NONE	NONE
76	11881666.1510	7008866.8450	252.87		12	NONE	NONE
77	11881658.6870	7008866.4410	252.89		12	NONE	NONE



DEPARTMENT OF ENVIRONMENTAL SERVICES
 FACILITIES & ENGINEERING DIVISION
 ENGINEERING BUREAU
 2100 CLARENDON BOULEVARD, SUITE 813
 ARLINGTON, VA 22201
 PHONE: 703.228.3629
 FAX: 703.228.3606

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APPROVALS DATE

Amy Pflaus 9/11/2020
 QUALITY CONTROL ENGINEER
 Kamal Taktak 8.31.20
 CONSTRUCTION MANAGEMENT SUPERVISOR
 09.16.2020
 WATER, SEWER, STREETS BUREAU CHIEF
 Dennis M. Leach 09/11/20
 TRANSPORTATION DIRECTOR
 Gabriela Kock August 24, 2020
 PROJECT MANAGER

REVISIONS DATE

NO.	DESCRIPTION	DATE

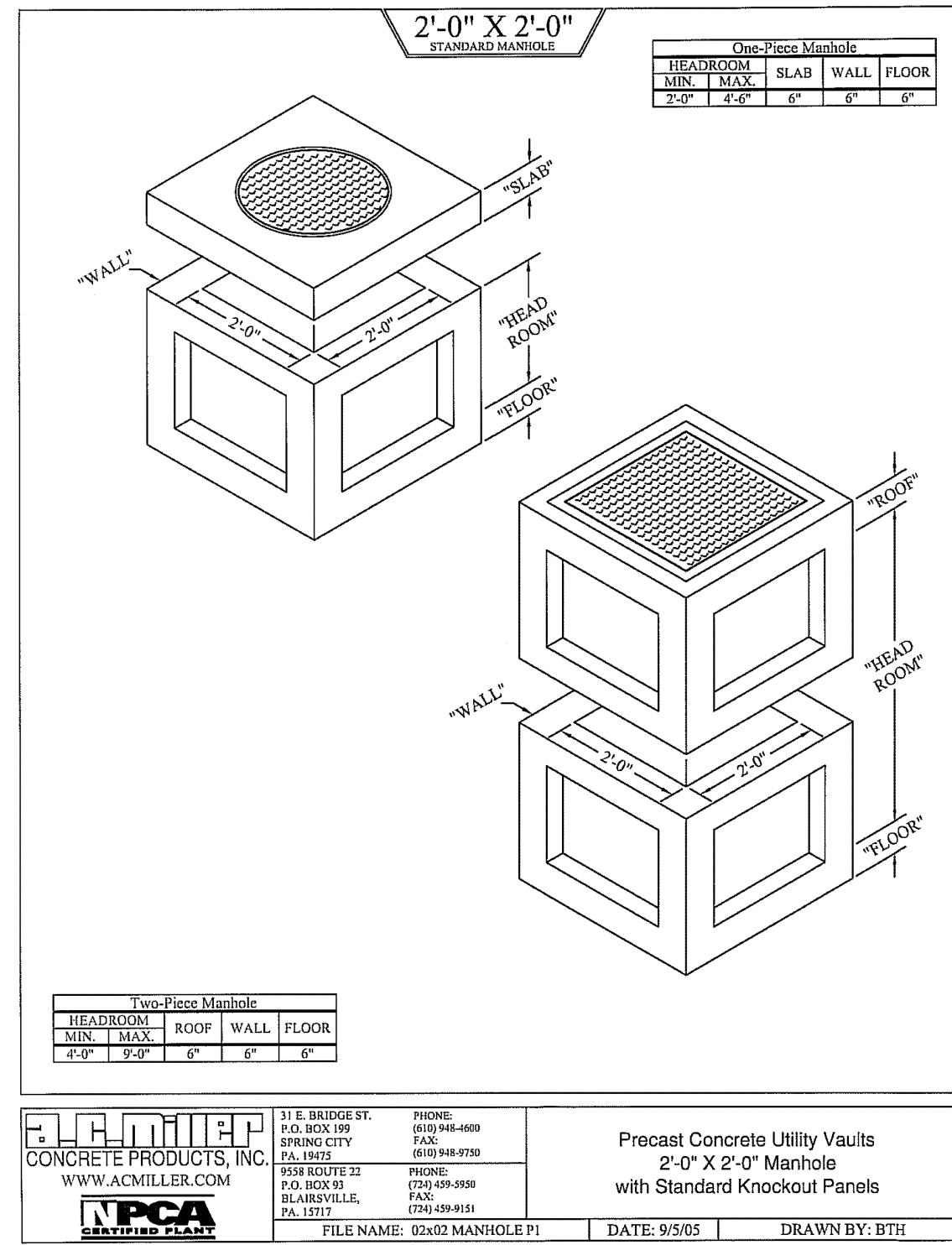
Project Name and Location
**WASHINGTON BOULEVARD
 & 13TH STREET NORTH IMPROVEMENTS**
 UG UTILITY TEST HOLE INFORMATION
 WASHINGTON BLVD. FROM NORTH
 KIRKWOOD ROAD TO FAIRFAX DRIVE
 13TH STREET NORTH FROM WASHINGTON
 BLVD. TO NORTH JACKSON STREET &
 NORTH JOHNSON STREET FROM 13TH
 STREET NORTH TO 150' WEST

Designed: ABB
 Drawn: CDL
 Checked: MSD
 Miss Utility Transmittal #: N/A

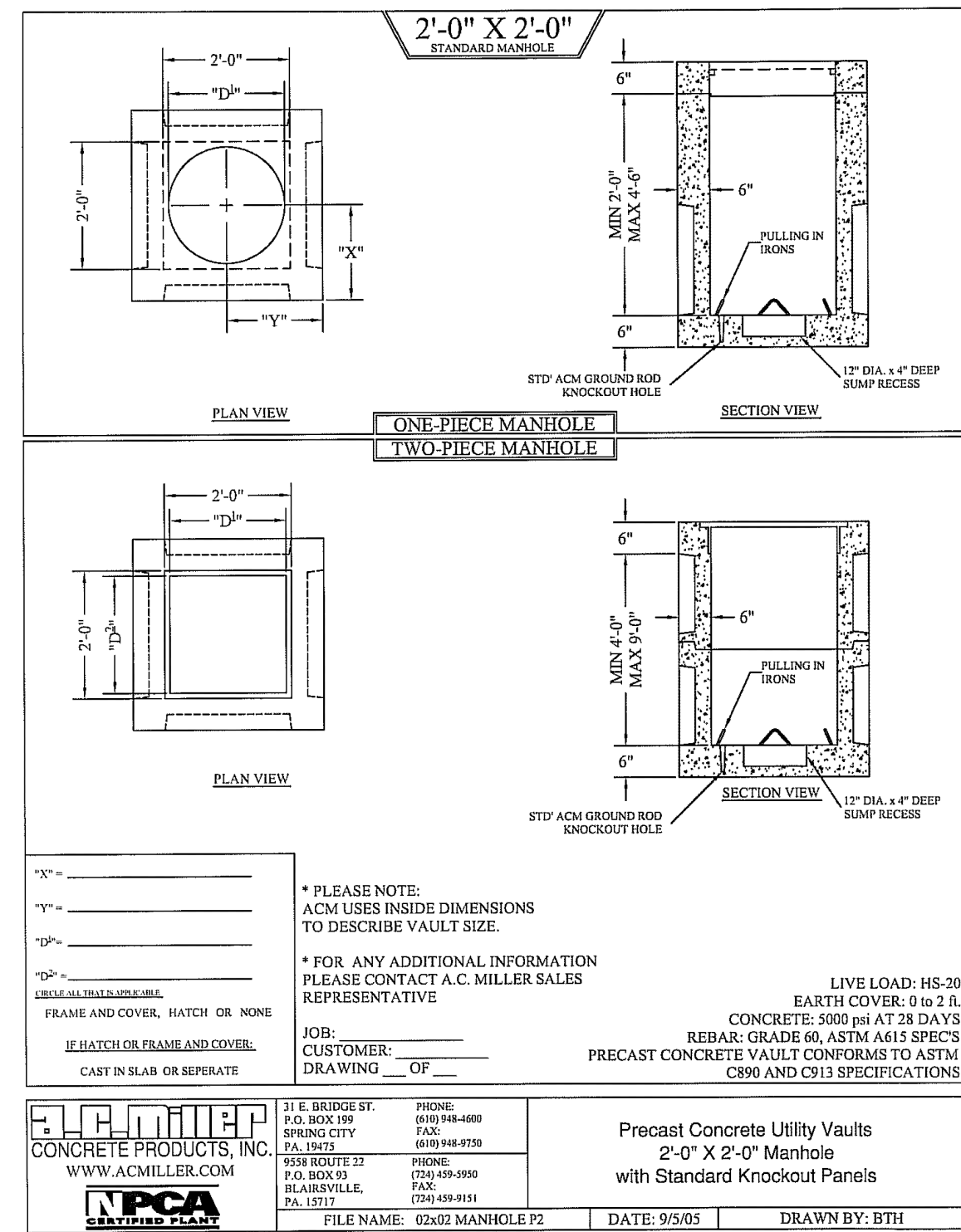
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 Plotted: September 17, 2020
 Plotted by: CL

Scale: NTS

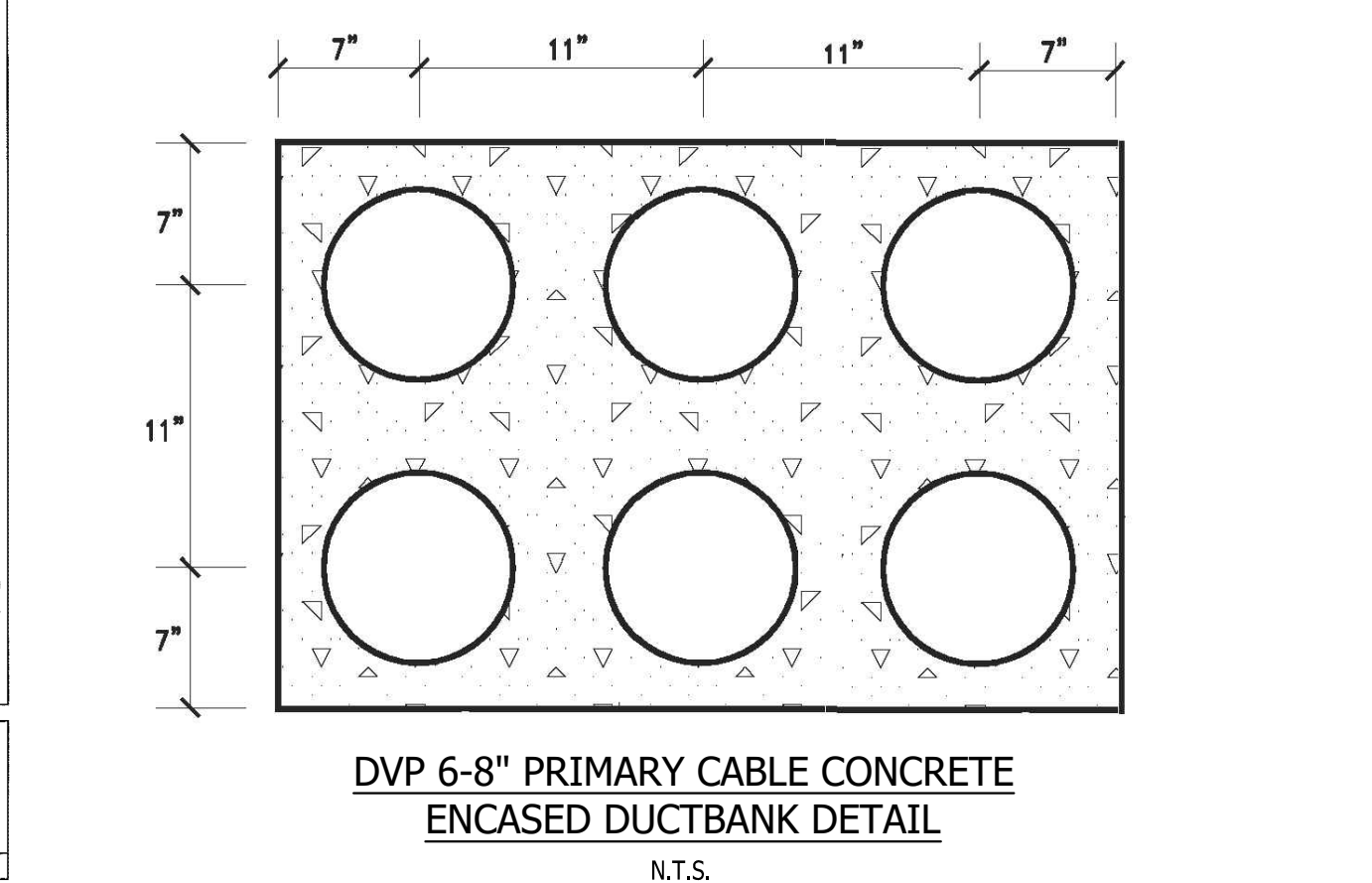
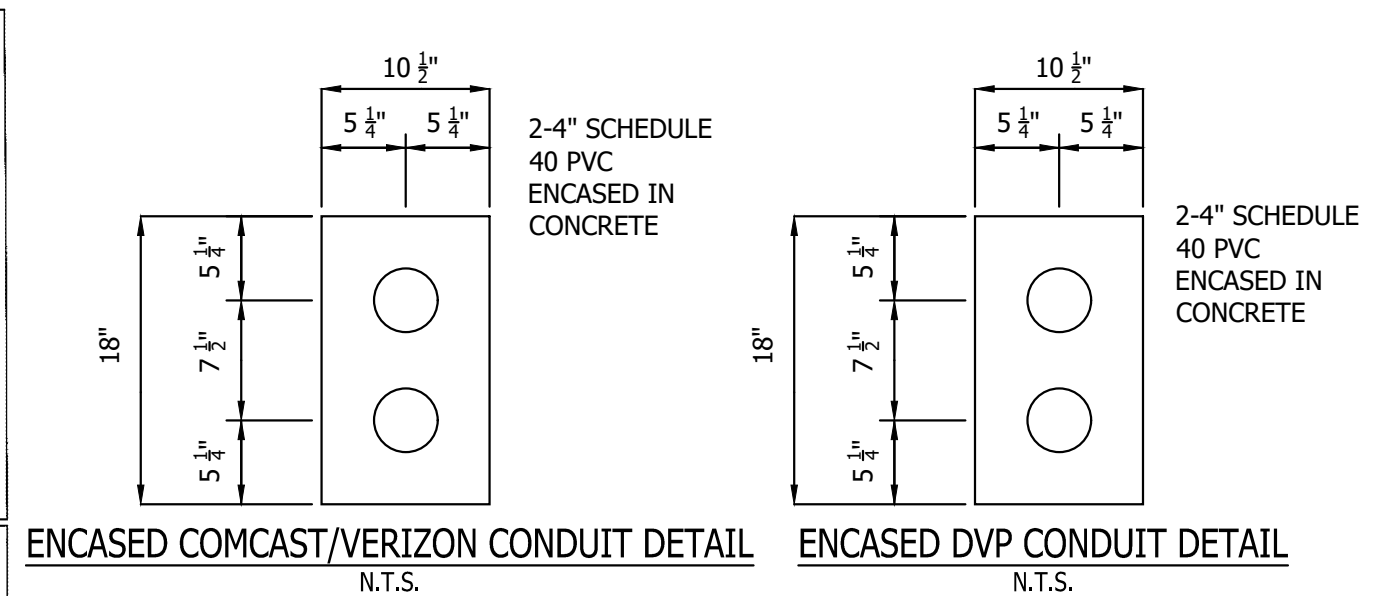
VERIZON & COMCAST HANDHOLE DETAIL



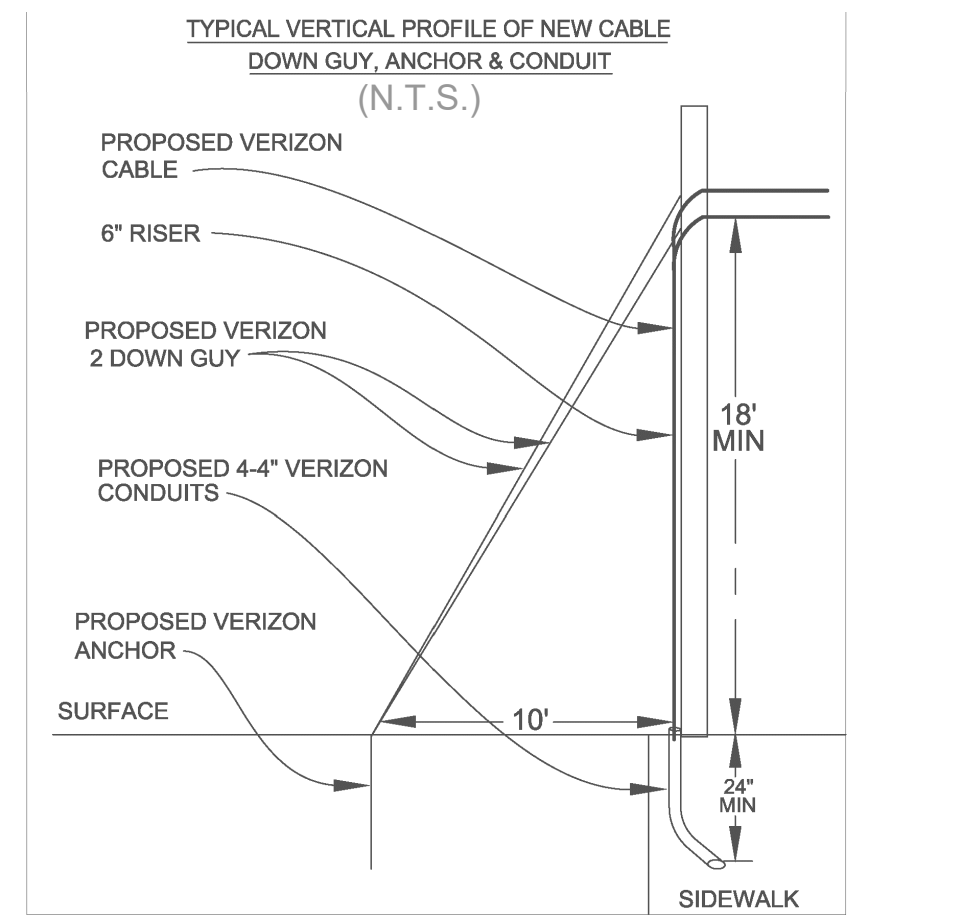
VERIZON & COMCAST HANDHOLE DETAIL



ENCASED COMCAST/VERIZON CONDUIT DETAIL



APPROVAL OF THIS CONCEPTUAL DRY UTILITY PLAN SHALL ALLOW FOR THE ISSUANCE OF RIGHT-OF-WAY PERMITS FOR INSTALLATION OF CONDUITS, MANHOLES, HAND HOLES, ETC... WHICH WILL BE CONSTRUCTED BY THE DEVELOPER FOR THE UTILITY COMPANY'S USE, RIGHT-OF-WAY PERMIT FOR INSTALLATION OF DVP FACILITY SUCH AS POLES, CABLE, ELECTRICAL DEVICES (TRANSFORMER AND SWITCH BOXES) SHALL NOT BE ISSUED BEFORE APPROVAL OF THE FINAL DRY UTILITY PLAN.



Domination Commitment/Conceptual Design Acceptance Letter

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

July 20, 2018

Mr. Abo Bibizadeh
 2100 Clarendon Blvd., Suite 800
 Arlington, VA 22201

Re: ROAD IMPROVEMENT PLANS FOR WASHINGTON BOULEVARD & 13TH STREET NORTH Arlington, VA

Dear Mr. Bibizadeh:
 BOWMAN CONSULTING (in coordination with Arlington County) has developed a conceptual dry utility plan (attached) for the referenced project in conjunction with the site civil engineering plan. This dry utility plan dated 7/20/18 considers the installation of a new underground utility system to accommodate the removal of the existing overhead utility wires and, utility poles that are adjacent to the site and/or permanent service to the buildings.

Dominion Virginia Power (DVP) has completed a conceptual review and accepts the preliminary design of ROAD IMPROVEMENT PLANS FOR WASHINGTON BOULEVARD & 13TH STREET NORTH for the installation of conduit and manholes. DVP acknowledges that based on the current existing and projected load information provided, the current and existing capacity on DVP's systems, DVP's current design standards, and other information provided at the time of the DVP conceptual review, BOWMAN CONSULTING'S dry utility plan meets the DVP requirements and commits to utilizing the underground infrastructures for installation of the DVP cable and other necessary facilities to underground the existing overhead utilities and/or provide permanent service to the buildings, if the underground infrastructure and installation meets DVP's requirements. DVP will endeavor to complete their final engineering design plan in a manner that will not result in additional trenching, conduit or any underground type work beyond what is shown on this county accepted dry utility conceptual plan. Should there be a change in any of the following, DVP reserves the right to adjust its design accordingly to assure the operational integrity of its system:

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

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

Should you have any questions regarding this plan, feel free to contact Scott Delgado at 703-464-1000.

Sincerely,

M. Scott Delgado
 Principal
 Bowman Consulting

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

Designated Dominion Supervisor: _____
 (Print Full Name)

Signature: _____ Date: _____
 Designated Dominion Supervisor

DVP Project Number: _____

Last Updated: May 18, 2011.

ARLINGTON VIRGINIA

DEPARTMENT OF ENVIRONMENTAL SERVICES
 FACILITIES & ENGINEERING DIVISION
 ENGINEERING BUREAU
 2100 CLARENDON BOULEVARD, SUITE 813
 ARLINGTON, VA 22201
 PHONE: 703.228.3629
 FAX: 703.228.3606

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SEAL

APPROVALS

NAME	DATE
Amy Pflaum	9/11/2020
Kamal Tabak	8.31.20
[Signature]	09.16.2020
Dennis M. Leach	09/11/20
Gabriela Koch	August 24, 2020

REVISIONS

NO.	DESCRIPTION	DATE

Project Name and Location: **WASHINGTON BOULEVARD & 13TH STREET NORTH IMPROVEMENTS**

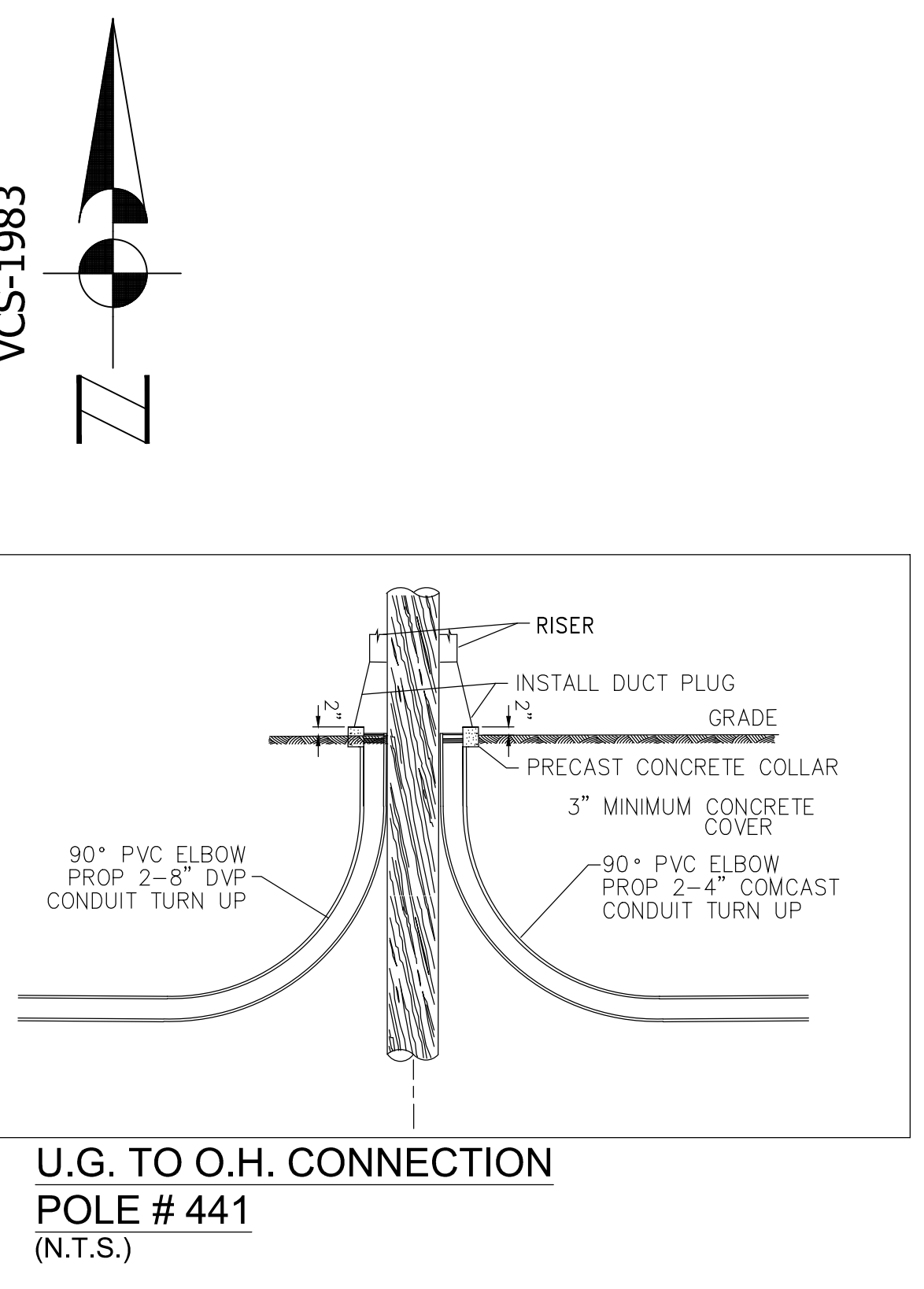
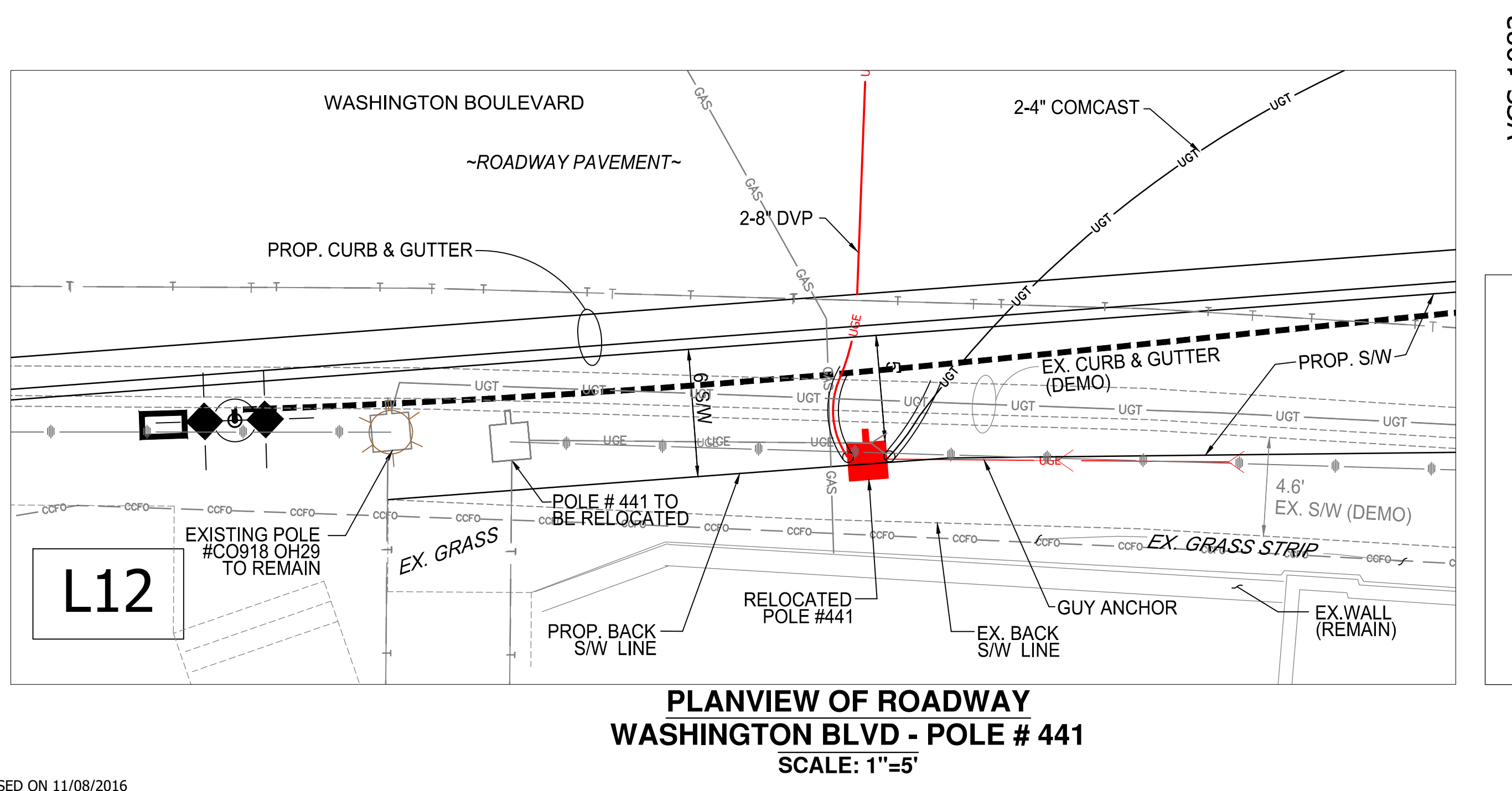
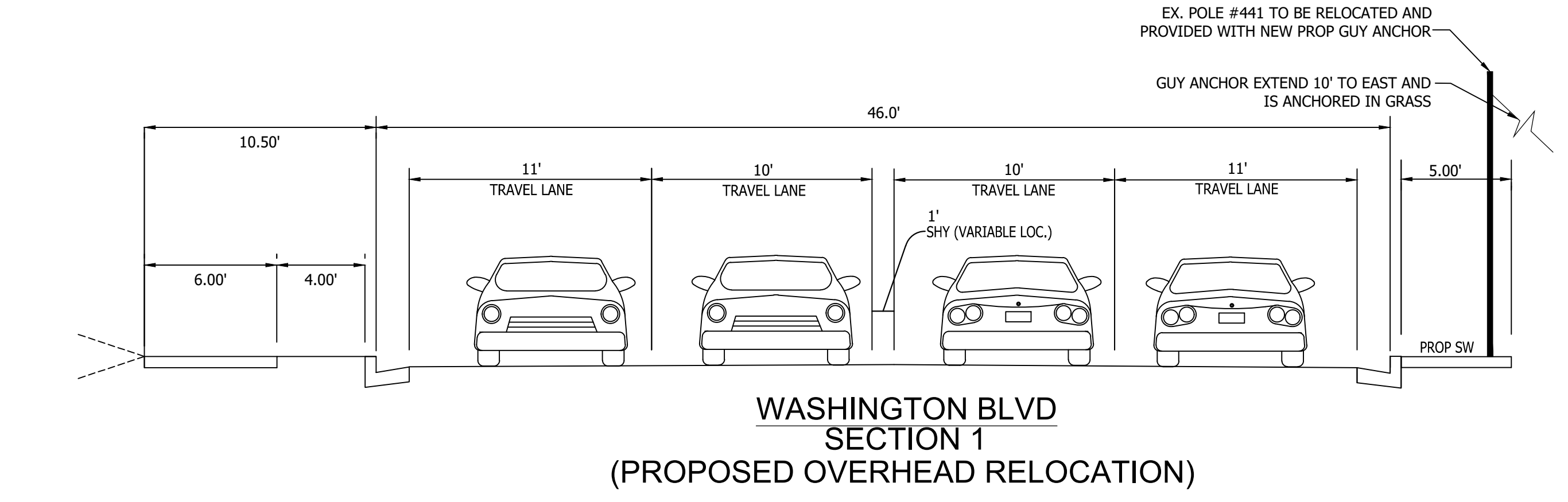
DRY UTILITY DETAILS

Designed: ABB
 Drawn: CDL
 Checked: MSD
 Miss Utility Transmittal #: N/A

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 Plotted: September 17, 2020
 Plotted by: CL

Scale: AS SHOWN

Sheet **9B OF 38**



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

July 20, 2018

Mr. Abu Bibizadeh
 2100 Clarendon Blvd., Suite 800
 Arlington, VA 22201

Re: ROAD IMPROVEMENT PLANS FOR
 WASHINGTON BOULEVARD & 13TH
 STREET NORTH
 Arlington, VA

Dear Mr. Bibizadeh:
 BOWMAN CONSULTING (in coordination with Arlington County) has developed a conceptual dry utility plan (attached) for the referenced project in conjunction with the site civil engineering plan. This dry utility plan dated 7/20/18 considers the installation of a new underground utility system to accommodate the removal of the existing overhead utility wires and, utility poles that are adjacent to the site and/or permanent service to the buildings.

Dominion Virginia Power (DVP) has completed a conceptual review and accepts the preliminary design of ROAD IMPROVEMENT PLANS FOR WASHINGTON BOULEVARD & 13TH STREET NORTH for the installation of conduit and manholes. DVP acknowledges that based on the current existing and projected load information provided, the current and existing capacity on DVP's systems, DVP's current design standards, and other information provided at the time of the DVP conceptual review, BOWMAN CONSULTING'S dry utility plan meets the DVP requirements and commits to utilizing the underground infrastructures for installation of the DVP cable and other necessary facilities to underground the existing overhead utilities and/or provide permanent service to the buildings, if the underground infrastructure and installation meets DVP's requirements. DVP will endeavor to complete their final engineering design plan in a manner that will not result in additional trenching, conduit or any underground type work beyond what is shown on this county accepted dry utility conceptual plan. Should there be a change in any of the following, DVP reserves the right to adjust its design accordingly to assure the operational integrity of its system:

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- Existing and planned loads on DVP's system
- DVP's standards of design
- Any other unforeseen charges

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

Should you have any questions regarding this plan, feel free to contact Scott Delgado at 703-464-1000.

Sincerely,

[Signature]
M. Scott Delgado
 Principal
 Bowman Consulting

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

Designated Dominion Supervisor: _____
 (Print Full Name)

Signature: _____ Date: _____
 Designated Dominion Supervisor

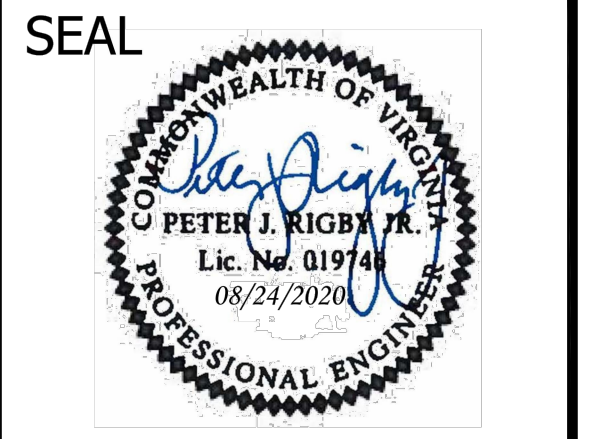
DVP Project Number: _____
 Last Updated: May 18, 2011.

APPROVAL OF THIS CONCEPTUAL DRY UTILITY PLAN SHALL ALLOW FOR THE ISSUANCE OF RIGHT-OF-WAY PERMITS FOR INSTALLATION OF CONDUITS, MANHOLES, HAND HOLES, ETC... WHICH WILL BE CONSTRUCTED BY THE DEVELOPER FOR THE UTILITY COMPANY'S USE, RIGHT-OF-WAY PERMIT FOR INSTALLATION OF DVP FACILITY SUCH AS POLES, CABLE, ELECTRICAL DEVICES (TRANSFORMER AND SWITCH BOXES) SHALL NOT BE ISSUED BEFORE APPROVAL OF THE FINAL DRY UTILITY PLAN.



DEPARTMENT OF ENVIRONMENTAL SERVICES
 FACILITIES & ENGINEERING DIVISION
 ENGINEERING BUREAU
 2100 CLARENDON BOULEVARD, SUITE 813
 ARLINGTON, VA 22201
 PHONE: 703.228.3629
 FAX: 703.228.3606

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APPROVALS DATE

<i>Amy Pflaum</i>	9/11/2020
QUALITY CONTROL ENGINEER	
<i>Kamal Taktak</i>	8.31.20
CONSTRUCTION MANAGEMENT SUPERVISOR	
<i>[Signature]</i>	09.16.2020
WATER, SEWER, STREETS BUREAU CHIEF	
<i>Dennis M. Leach</i>	09/11/20
TRANSPORTATION DIRECTOR	
<i>Gabriela Koch</i>	August 24, 2020
PROJECT MANAGER	

REVISIONS DATE

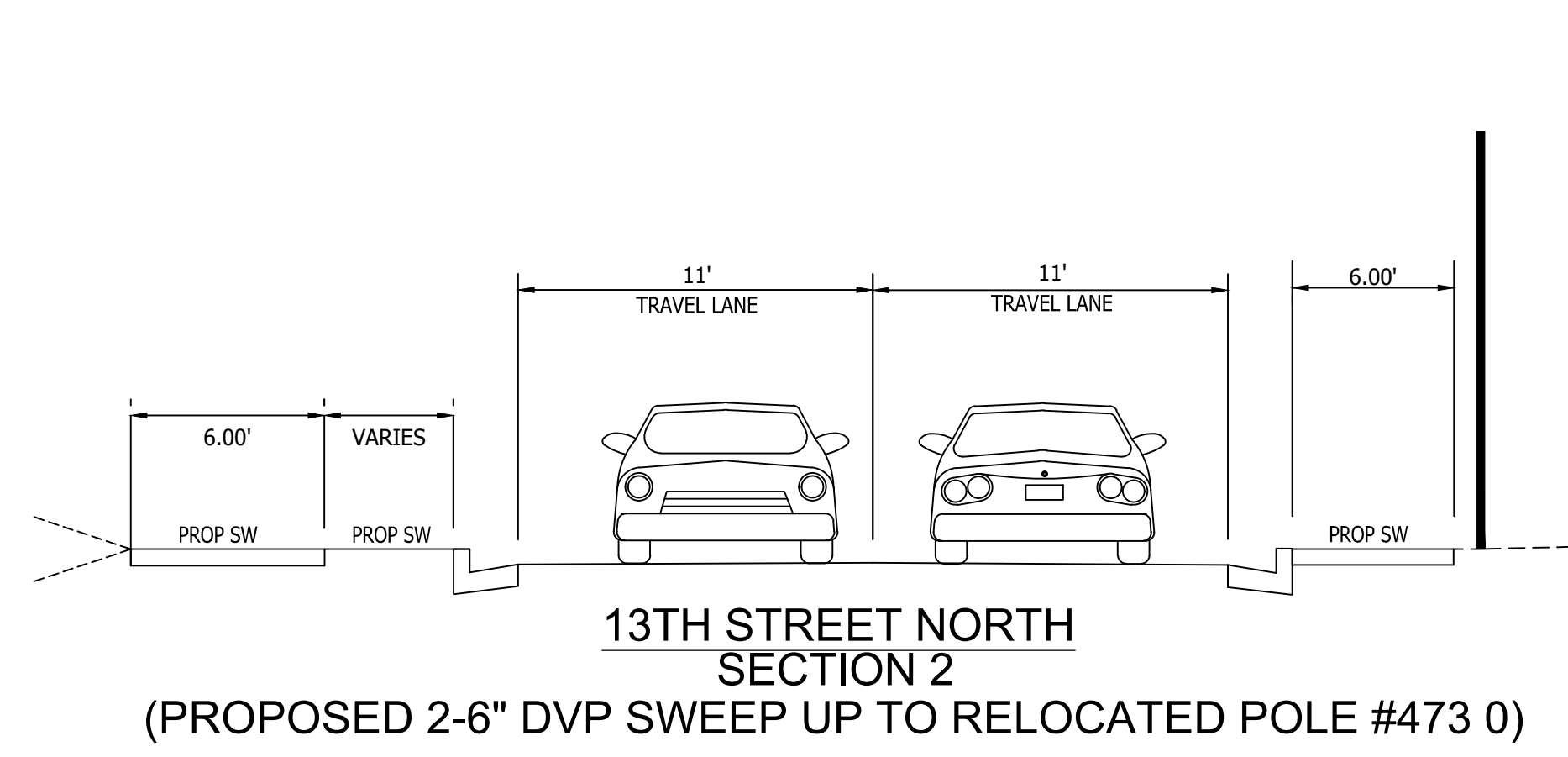
REVISIONS	DATE

Project Name and Location
WASHINGTON BOULEVARD & 13TH STREET NORTH IMPROVEMENTS
DRY UTILITY DETAILS

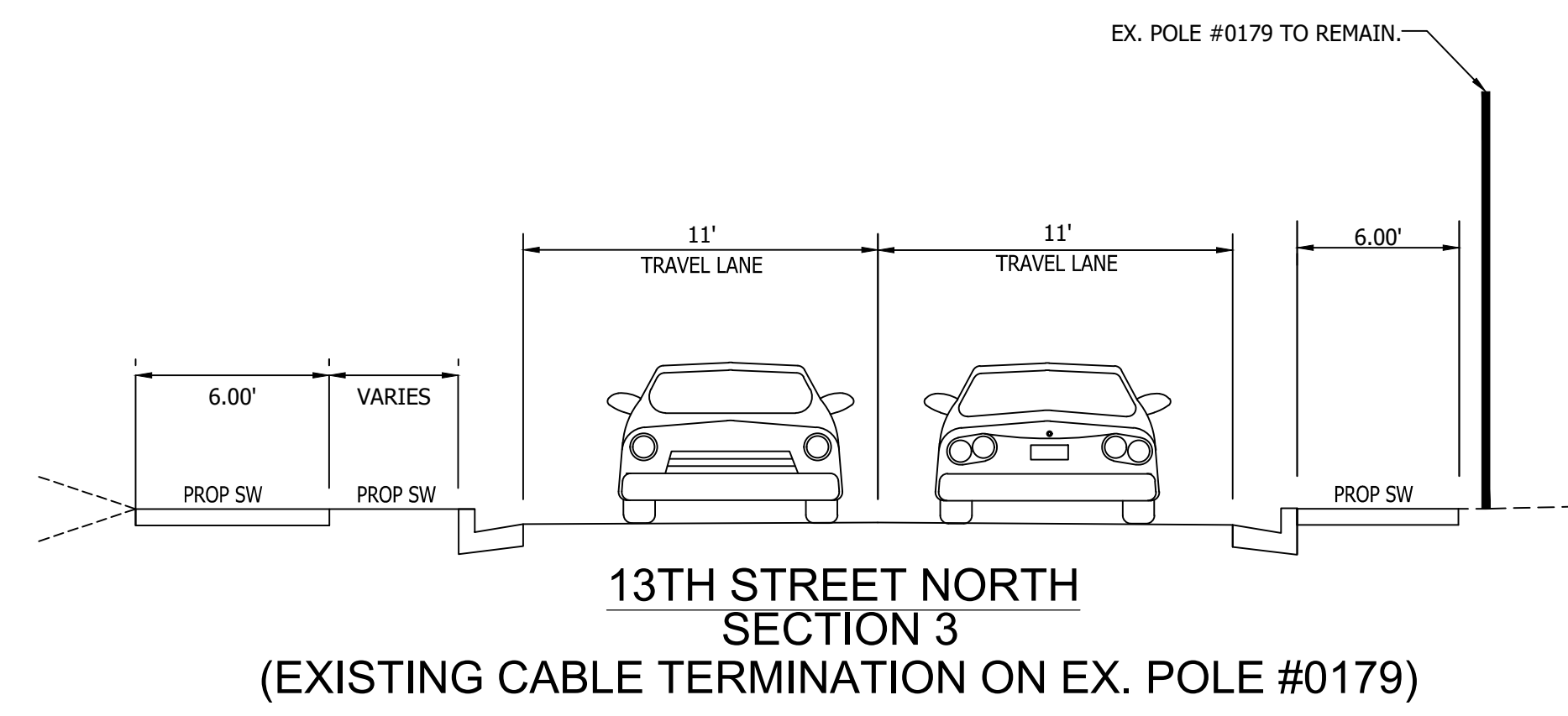
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 Plotted by: CL

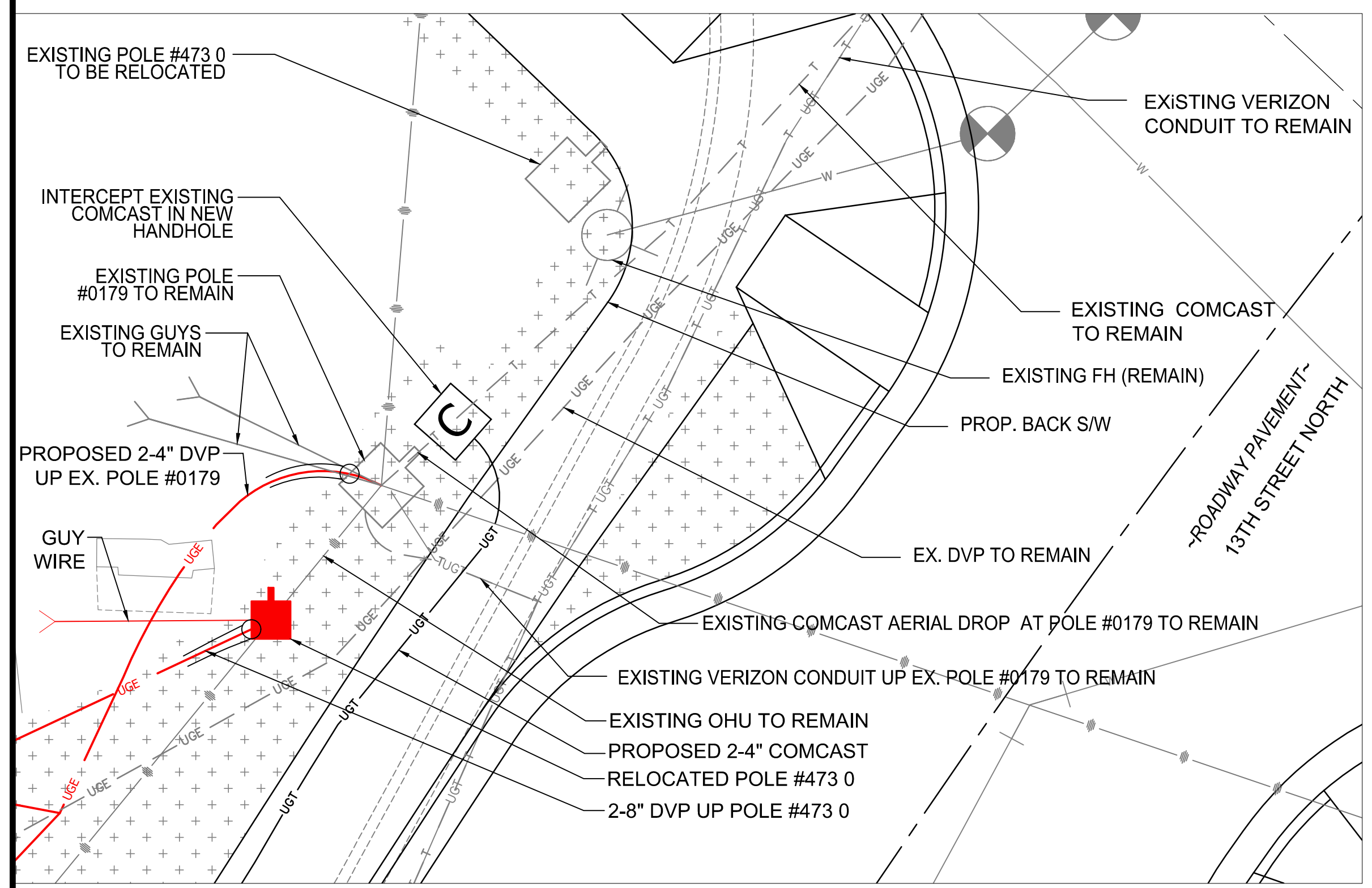
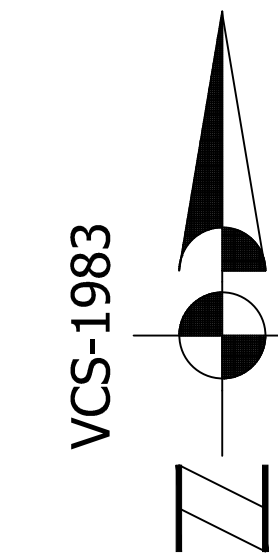
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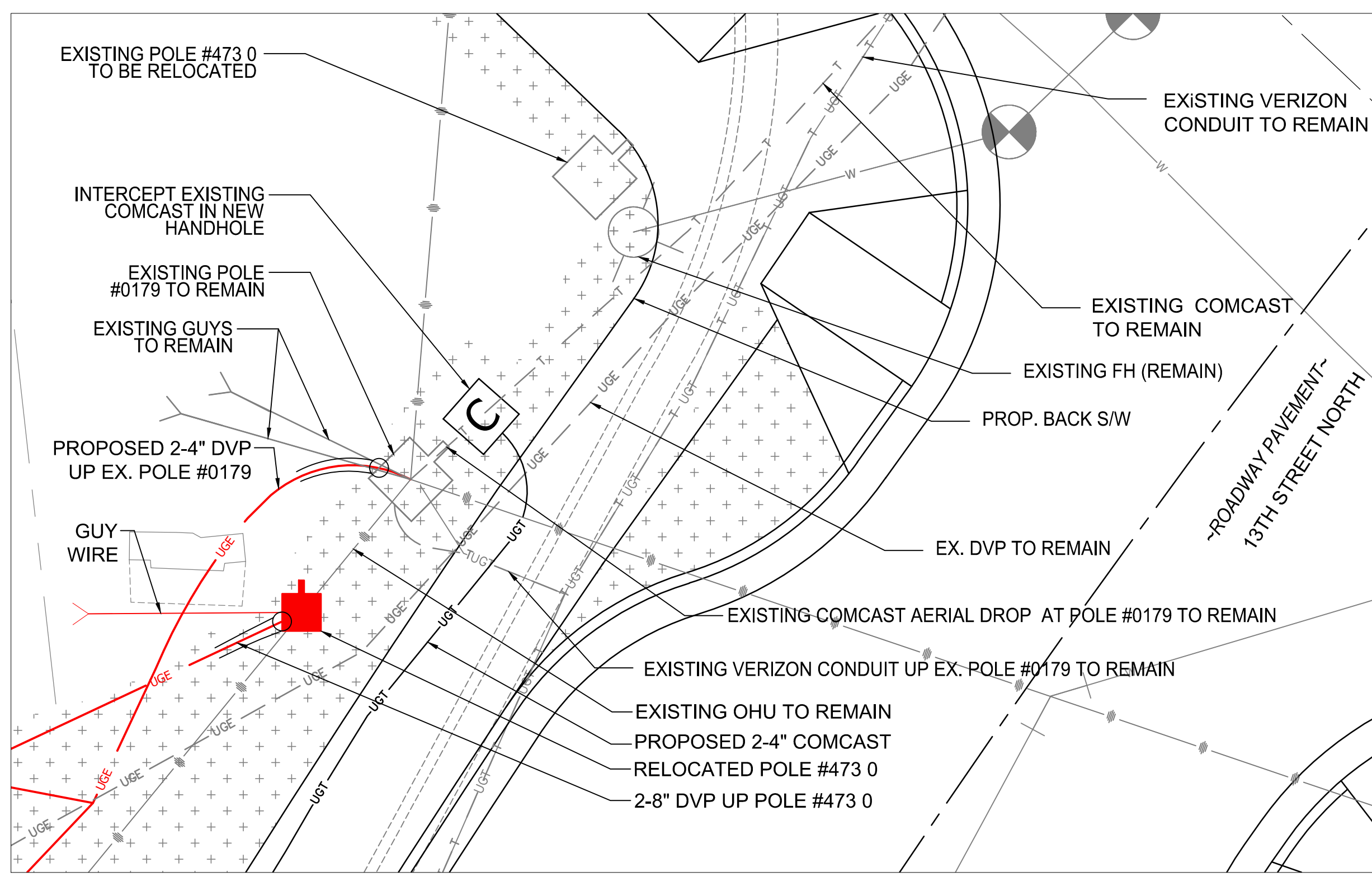
13TH STREET NORTH SECTION 2
 (PROPOSED 2-6" DVP SWEEP UP TO RELOCATED POLE #473 0)



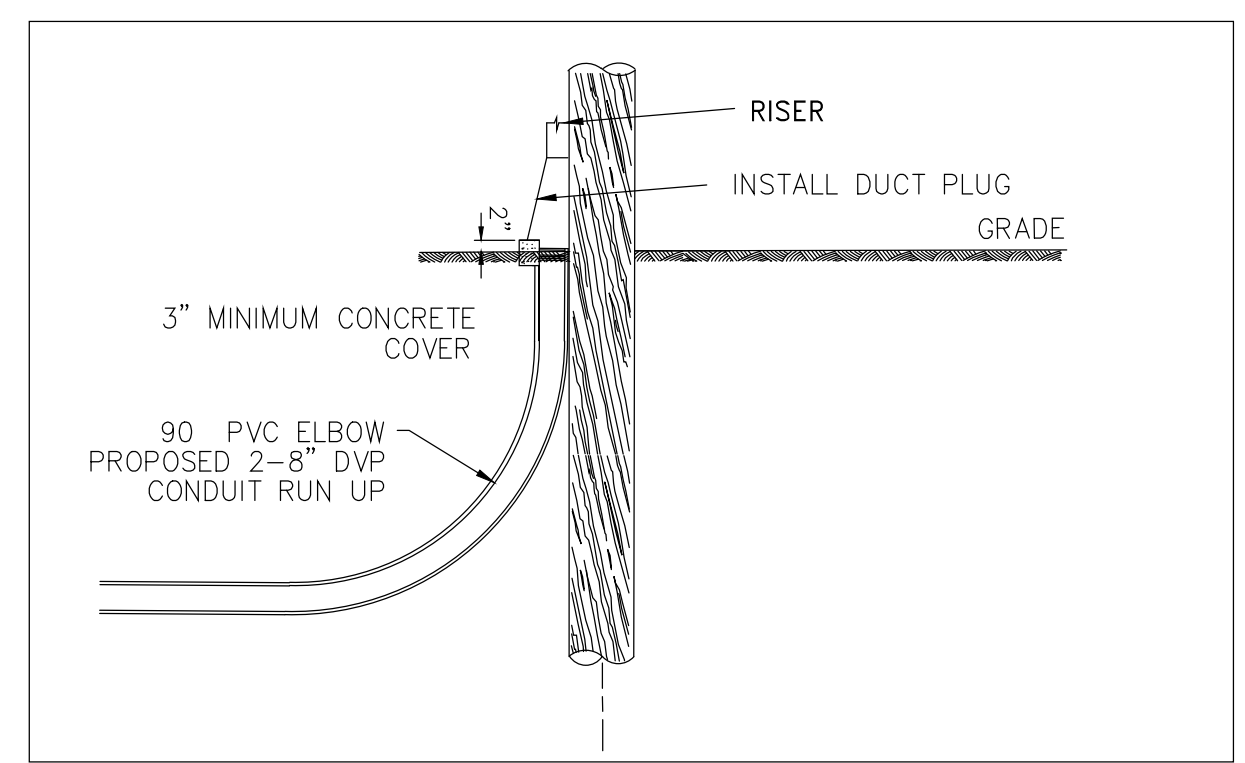
13TH STREET NORTH SECTION 3
 (EXISTING CABLE TERMINATION ON EX. POLE #0179)



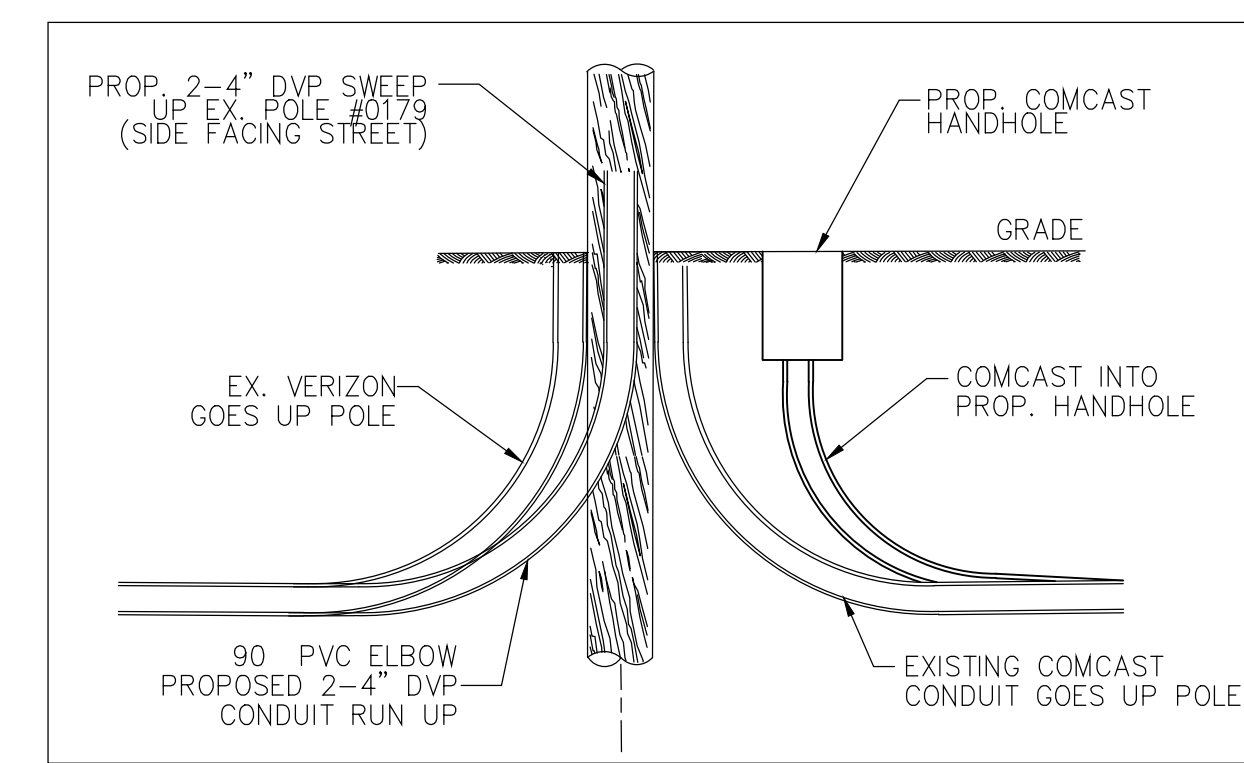
PLANVIEW OF ROADWAY
13TH STREET NORTH - RELOCATED POLE # 473 0
 SCALE: 1"=5'



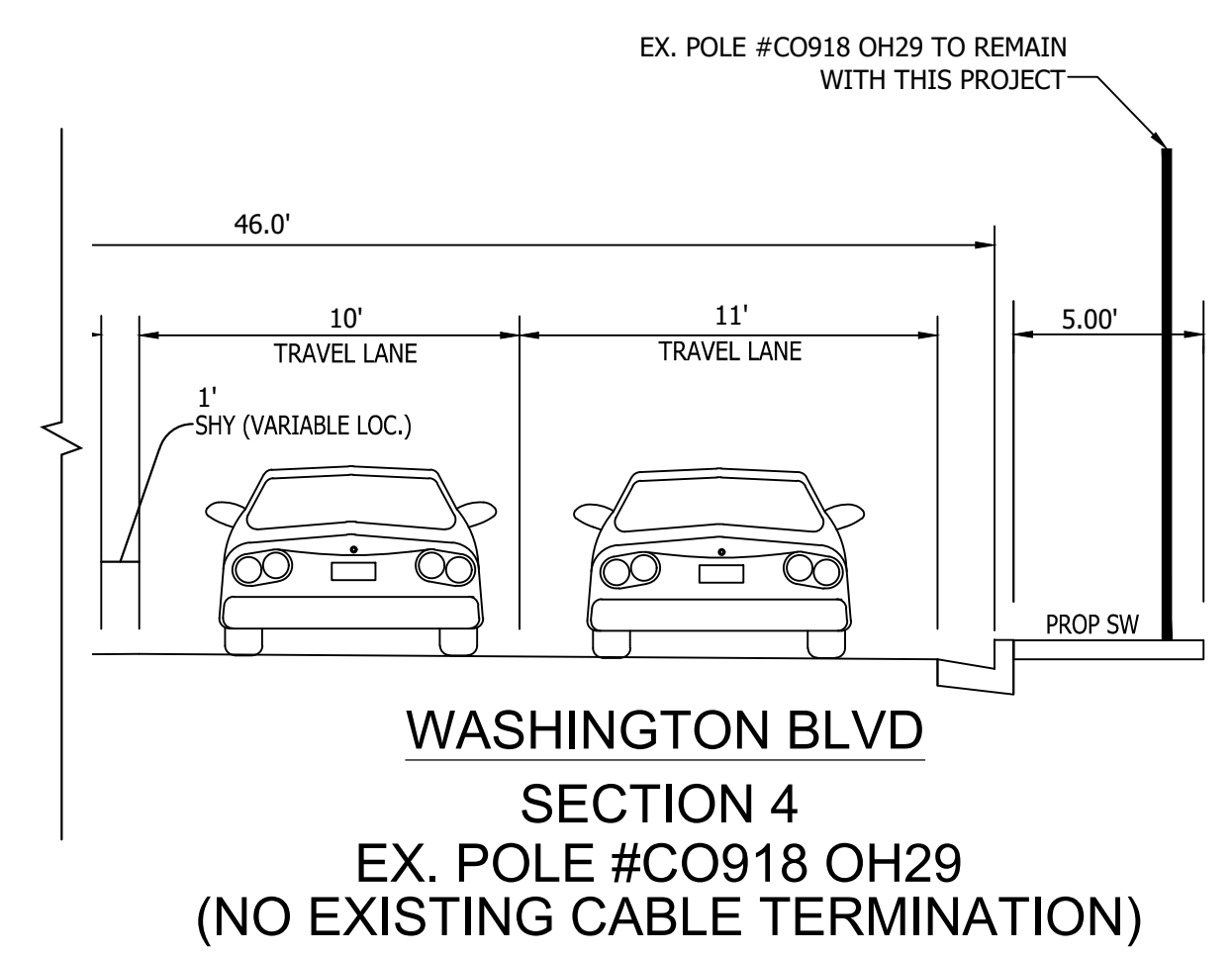
PLANVIEW OF ROADWAY
13TH STREET NORTH - POLE # 0179
 SCALE: 1"=5'



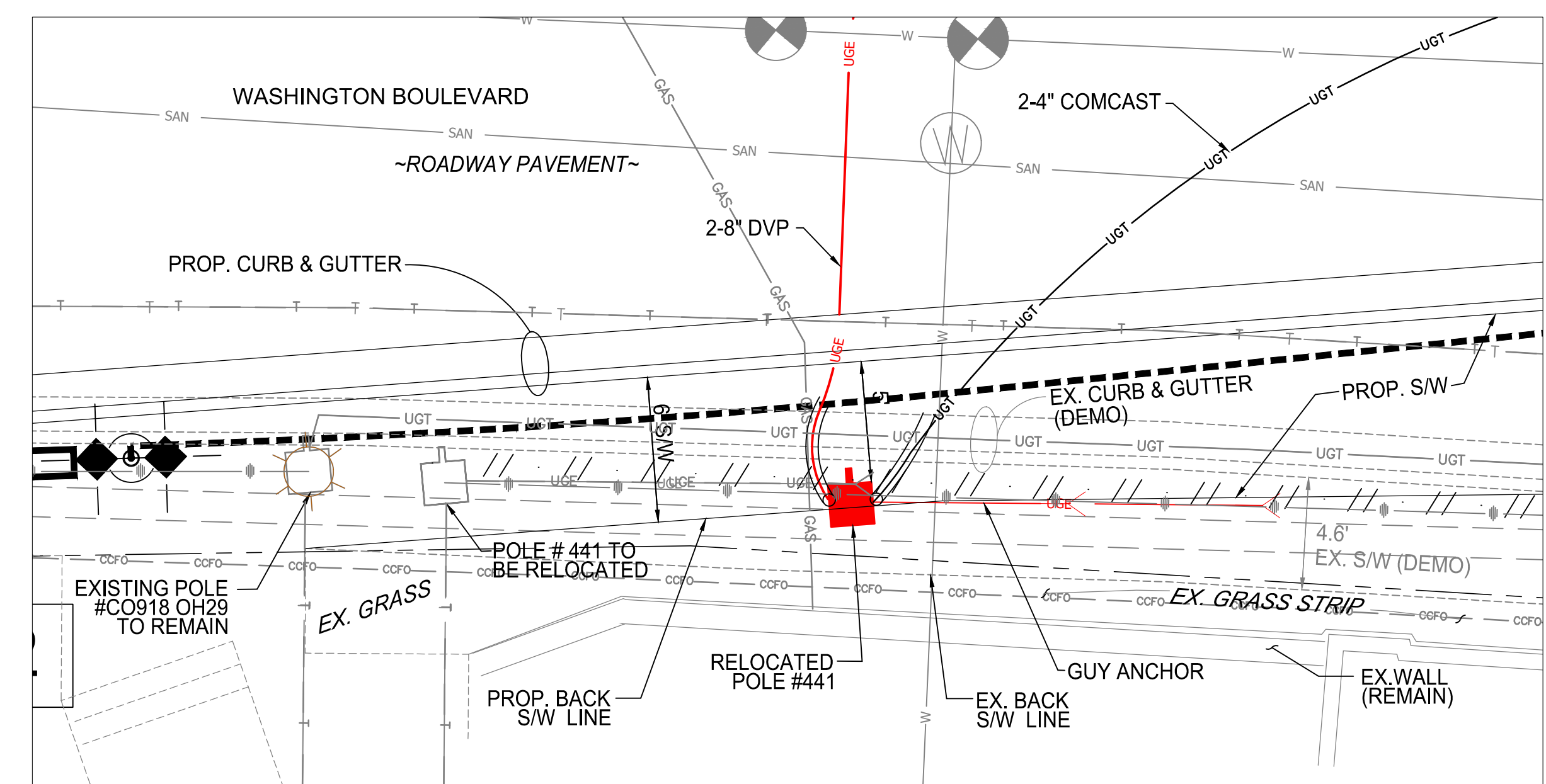
U.G. TO O.H. CONNECTION
RELOCATED POLE #473 0
 (N.T.S.)



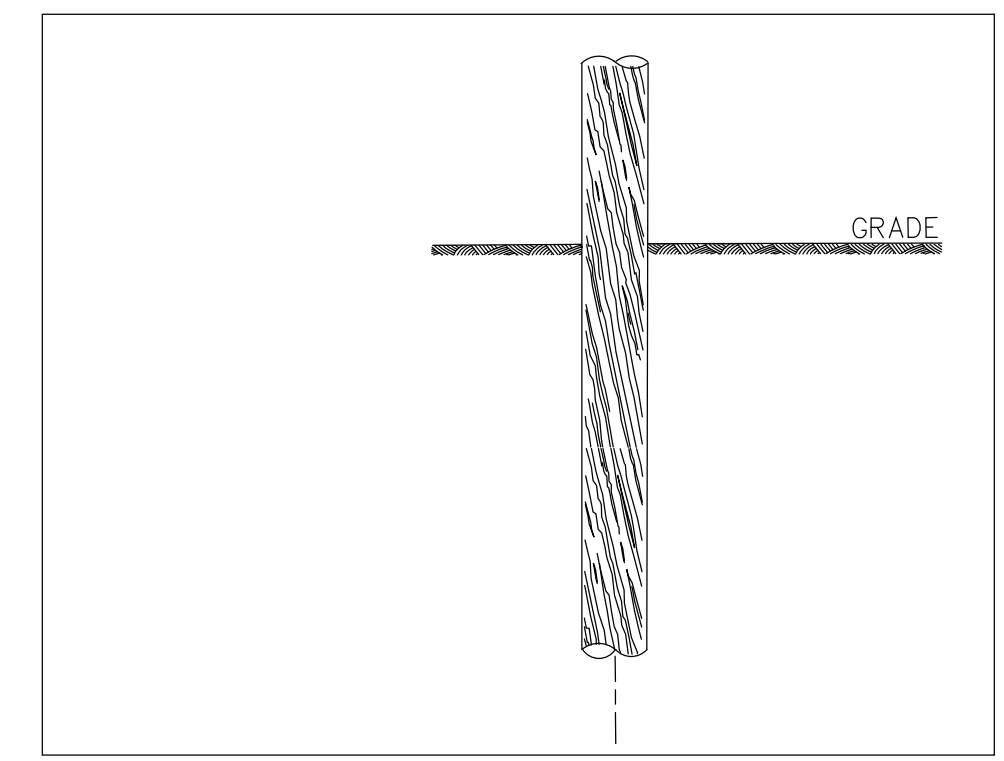
U.G. TO O.H. CONNECTION
EXISTING POLE #0179
 (N.T.S.)



WASHINGTON BLVD
SECTION 4
EX. POLE #CO918 OH29
(NO EXISTING CABLE TERMINATION)



PLANVIEW OF ROADWAY
WASHINGTON BLVD - EX. POLE # CO918 OH29
SCALE: 1"=5'



EX. POLE # CO918 OH29
(N.T.S.)

Dominion Commitment/Conceptual Design Acceptance Letter

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

July 20, 2018

Mr. Abe Bibizadeh
2100 Clarendon Blvd., Suite 800
Arlington, VA 22201

Re: ROAD IMPROVEMENT PLANS FOR
WASHINGTON BOULEVARD & 13TH
STREET NORTH
Arlington, VA

Dear Mr. Bibizadeh:
BOWMAN CONSULTING (in coordination with Arlington County) has developed a conceptual dry utility plan (attached) for the referenced project in conjunction with the site civil engineering plan. This dry utility plan dated 7/20/18 considers the installation of a new underground utility system to accommodate the removal of the existing overhead utility wires and, utility poles that are adjacent to the site and/or permanent service to the buildings.

Dominion Virginia Power (DVP) has completed a conceptual review and accepts the preliminary design of road improvement plans for Washington Boulevard & 13th Street North for the installation of conduit and manholes. DVP acknowledges that based on the current existing and projected load information provided, the current and existing capacity on DVP's systems, DVP's current design standards, and other information provided at the time of the DVP conceptual review, BOWMAN CONSULTING'S dry utility plan meets the DVP requirements and commits to utilizing the underground infrastructures for installation of the DVP cable and other necessary facilities to underground the existing overhead utilities and/or provide permanent service to the buildings, if the underground infrastructure and installation meets DVP's requirements. DVP will endeavor to complete their final engineering design plan in a manner that will not result in additional trenching, conduit or any underground type work beyond what is shown on this county accepted dry utility conceptual plan. Should there be a change in any of the following, DVP reserves the right to adjust its design accordingly to assure the operational integrity of its system:

- Conceptual plans submitted
- Existing and planned loads on DVP's system
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- Any other unforeseen changes

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

Should you have any questions regarding this plan, feel free to contact Scott Delgado at 703-464-1000.

Sincerely,

[Signature]
M. Scott Delgado
Principal
Bowman Consulting

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

Designated Dominion Supervisor: _____
(Print Full Name)

Signature: _____ Date: _____
Designated Dominion Supervisor

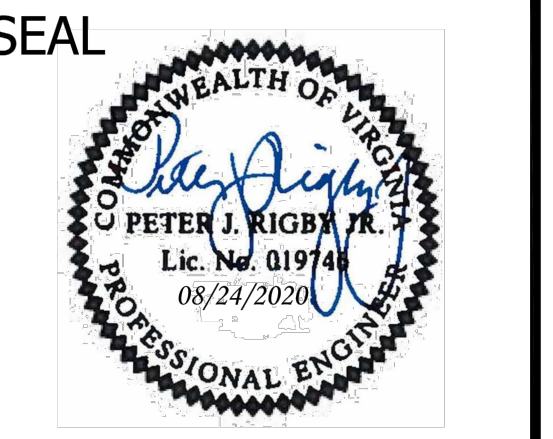
DVP Project Number: _____
Last Updated: May 18, 2011.

APPROVAL OF THIS CONCEPTUAL DRY UTILITY PLAN SHALL ALLOW FOR THE ISSUANCE OF RIGHT-OF-WAY PERMITS FOR INSTALLATION OF CONDUITS, MANHOLES, HAND HOLES, ETC., WHICH WILL BE CONSTRUCTED BY THE DEVELOPER FOR THE UTILITY COMPANY'S USE, RIGHT-OF-WAY PERMIT FOR INSTALLATION OF DVP FACILITY SUCH AS POLES, CABLE, ELECTRICAL DEVICES (TRANSFORMER AND SWITCH BOXES) SHALL NOT BE ISSUED BEFORE APPROVAL OF THE FINAL DRY UTILITY PLAN.



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2100 CLARENDON BOULEVARD, SUITE 813
ARLINGTON, VA 22201
PHONE: 703.228.3629
FAX: 703.228.3606

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APPROVALS DATE

Amy Pflaum	9/11/2020
QUALITY CONTROL ENGINEER	
Kamal Takab	8.31.20
CONSTRUCTION MANAGEMENT SUPERVISOR	
[Signature]	09.16.2020
WATER, SEWER, STREETS BUREAU CHIEF	
Dennis M. Leach	09/11/20
TRANSPORTATION DIRECTOR	
Gabriela Koch	August 24, 2020
PROJECT MANAGER	

REVISIONS DATE

REVISIONS	DATE

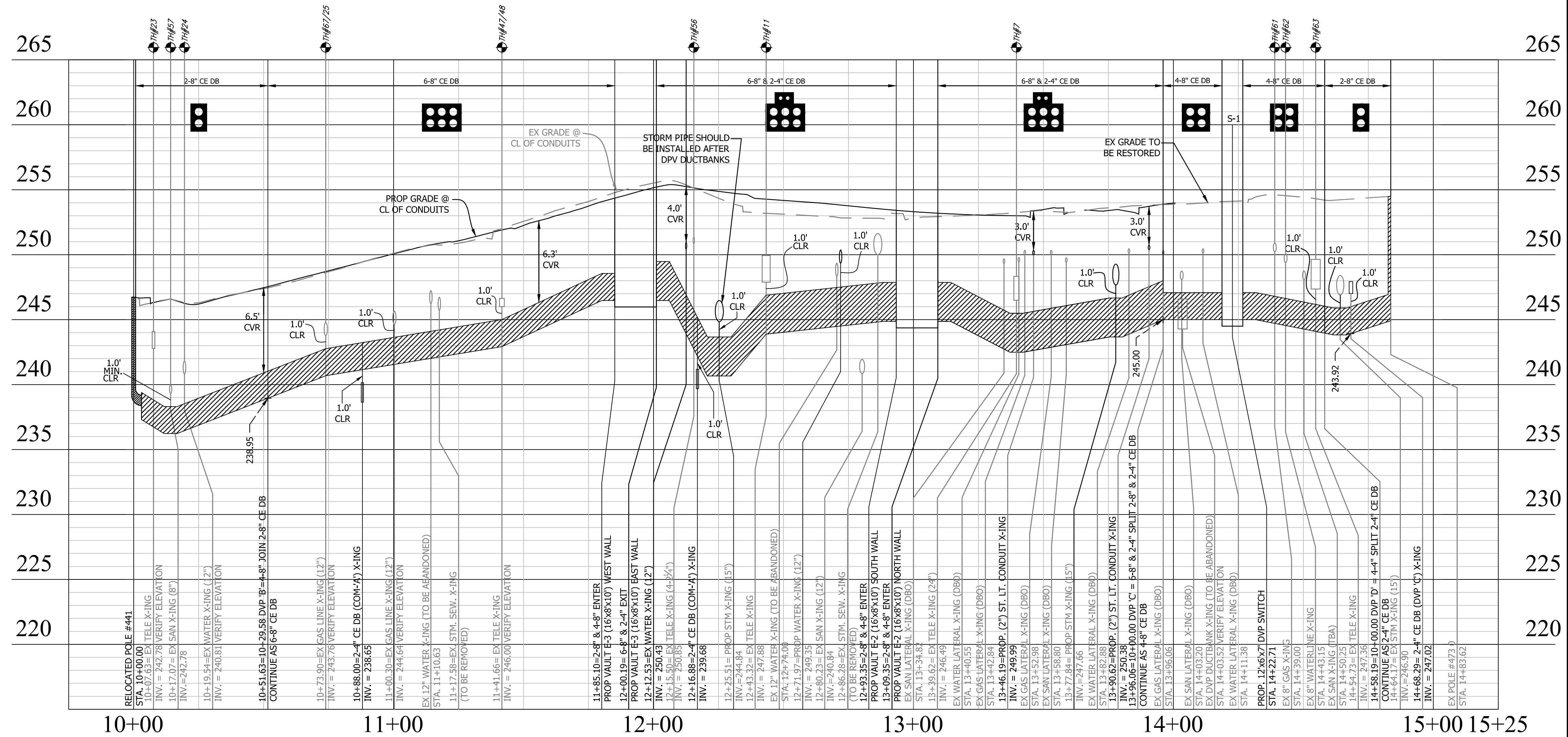
Project Name and Location
WASHINGTON BOULEVARD
& 13TH STREET NORTH IMPROVEMENTS
DRY UTILITY DETAILS

Designed: ABB
Drawn: CDL
Checked: MSD
Miss Utility Transmittal #: N/A

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Plotted: September 17, 2020
Plotted by: CL

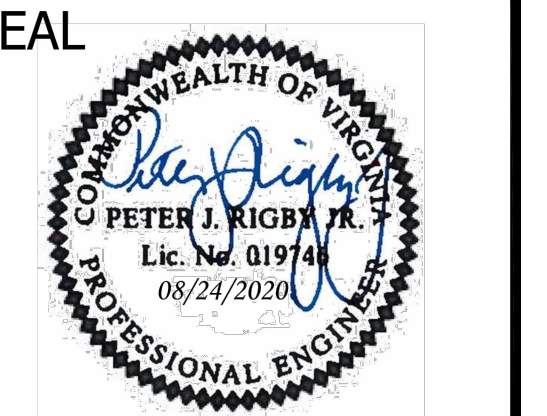
Scale: AS SHOWN

DVP-'A': RELOCATED POLE #441 TO RELOCATED POLE #473 0



DEPARTMENT OF ENVIRONMENTAL SERVICES
 FACILITIES & ENGINEERING DIVISION
 ENGINEERING BUREAU
 2100 CLARENDON BOULEVARD, SUITE 813
 ARLINGTON, VA 22201
 PHONE: 703.228.3629
 FAX: 703.228.3606

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APPROVALS	DATE
<i>Amy Pflaum</i> QUALITY CONTROL ENGINEER	9/11/2020
<i>Kamal Takab</i> CONSTRUCTION MANAGEMENT SUPERVISOR	8.31.20
<i>[Signature]</i> WATER, SEWER, STREETS BUREAU CHIEF	09.16.2020
<i>Dennis M. Leach</i> TRANSPORTATION DIRECTOR	09/11/20
<i>Gabriela Koch</i> PROJECT MANAGER	August 24, 2020

REVISIONS	DATE

Dominion Commitment Conceptual Design Acceptance Letter

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

July 20, 2018

Mr. Abe Bibizadeh
 2100 Clarendon Blvd., Suite 800
 Arlington, VA 22201

Re: ROAD IMPROVEMENT PLANS FOR WASHINGTON BOULEVARD & 13TH STREET NORTH
 Arlington, VA

Dear Mr. Bibizadeh:
 BOWMAN CONSULTING (in coordination with Arlington County) has developed a conceptual dry utility plan (attached) for the referenced project in conjunction with the site civil engineering plan. This dry utility plan dated 7/20/18 considers the installation of a new underground utility system to accommodate the removal of the existing overhead utility wires and, utility poles that are adjacent to the site and/or permanent service to the buildings.

Dominion Virginia Power (DVP) has completed a conceptual review and accepts the preliminary design of ROAD IMPROVEMENT PLANS FOR WASHINGTON BOULEVARD & 13TH STREET NORTH for the installation of conduit and manholes. DVP acknowledges that based on the current existing and projected load information provided, the current and existing capacity on DVP's systems, DVP's current design standards, and other information provided at the time of the DVP conceptual review, BOWMAN CONSULTING'S dry utility plan meets the DVP requirements and commits to utilizing the underground infrastructure for installation of the DVP cable and other necessary facilities to underground the existing overhead utilities and/or provide permanent service to the buildings, if the underground infrastructure and installation meets DVP's requirements. DVP will endeavor to complete their final engineering design plan in a manner that will not result in additional trenching, conduit or any underground type work beyond what is shown on this county accepted dry utility conceptual plan. Should there be a change in any of the following, DVP reserves the right to adjust its design accordingly to assure the operational integrity of its system:

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

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

Should you have any questions regarding this plan, feel free to contact Scott Delgado at 703-464-1000.

Sincerely,

[Signature]
 M. Scott Delgado
 Principal
 Bowman Consulting

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

Designated Dominion Supervisor: _____
 (Print Full Name)

Signature: _____ Date: _____
 Designated Dominion Supervisor

DVP Project Number: _____

Last Updated: May 18, 2011.

REVISED ON 11/08/2016

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ELEVATIONS SHOWN HEREON ARE TO THE TOP OF THE FACILITY UNLESS OTHERWISE NOTED.

TEST PITS REQUIRED: CONTRACTOR TO VERIFY HORIZONTAL AND VERTICAL LOCATION AND ELEVATION OF EXISTING UTILITY CONTRACTOR TO NOTIFY BOWMAN CONSULTING GROUP OF ANY DISCREPANCIES.

DBO: DEMOLISH BY OTHERS

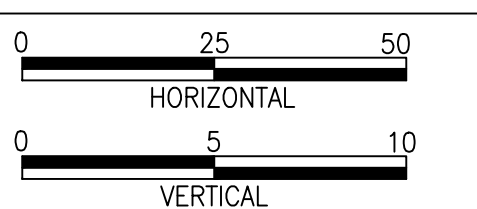
APPROVAL OF THIS CONCEPTUAL DRY UTILITY PLAN SHALL ALLOW FOR THE ISSUANCE OF RIGHT-OF-WAY PERMITS FOR INSTALLATION OF CONDUITS, MANHOLES, HAND HOLES, ETC. WHICH WILL BE CONSTRUCTED BY THE DEVELOPER FOR THE UTILITY COMPANY'S USE, RIGHT-OF-WAY PERMIT FOR INSTALLATION OF DVP FACILITY SUCH AS POLES, CABLE, ELECTRICAL DEVICES (TRANSFORMER AND SWITCH BOXES) SHALL NOT BE ISSUED BEFORE APPROVAL OF THE FINAL DRY UTILITY PLAN.

Project Name and Location
WASHINGTON BOULEVARD & 13TH STREET NORTH IMPROVEMENTS
 DRY UTILITY PROFILES

Designed: ABB
 Drawn: CDI
 Checked: MSD
 Miss Utility Transmittal #: N/A

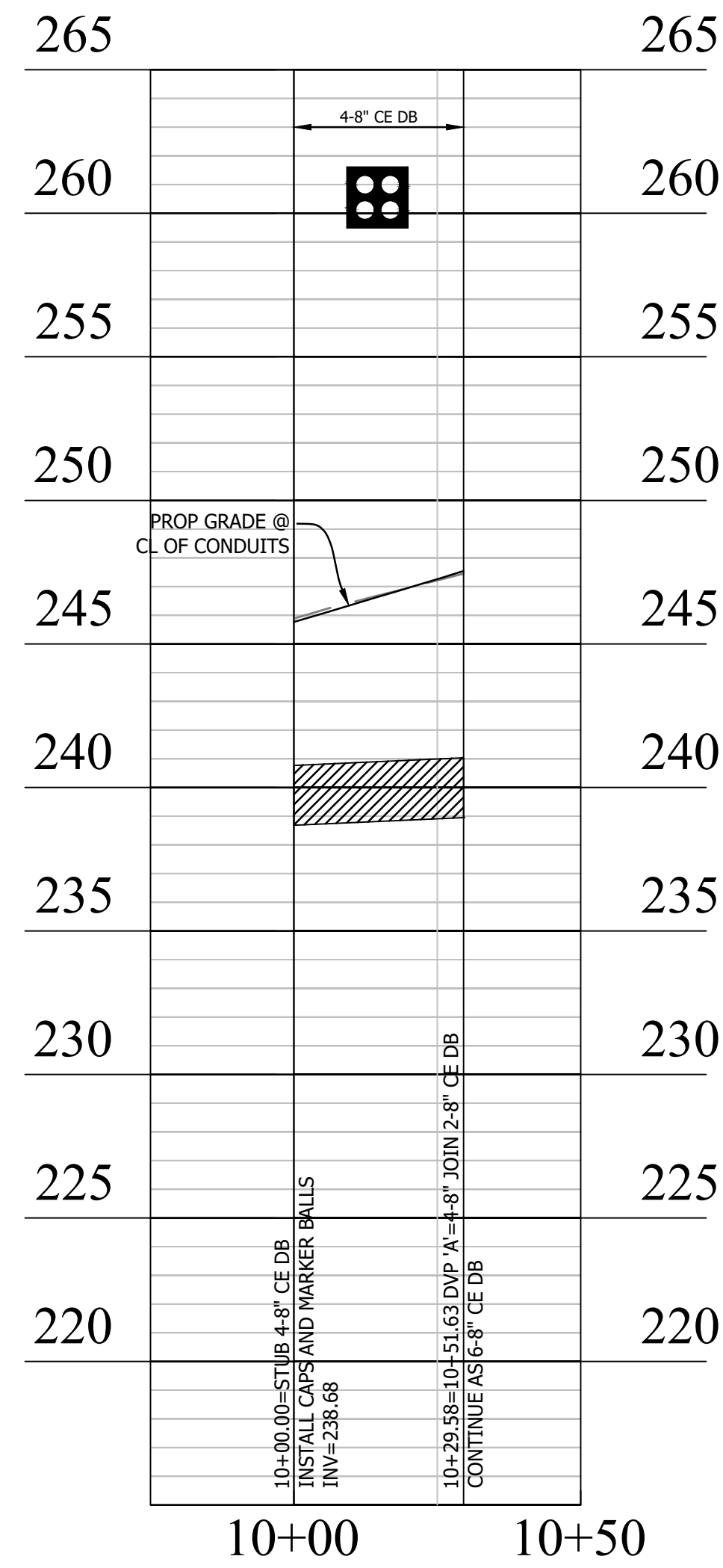
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 Plotted by: CL

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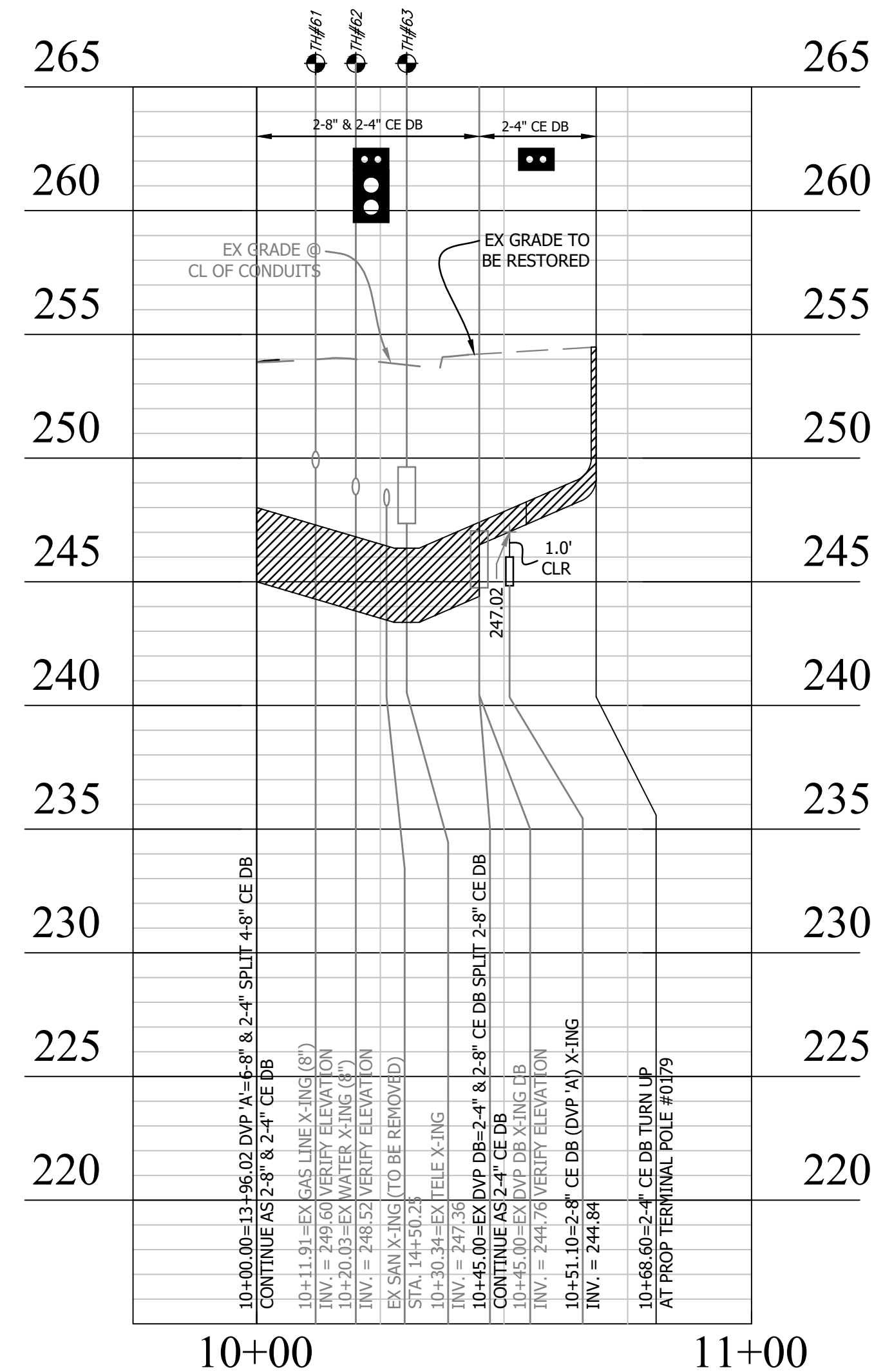


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9C OF 38

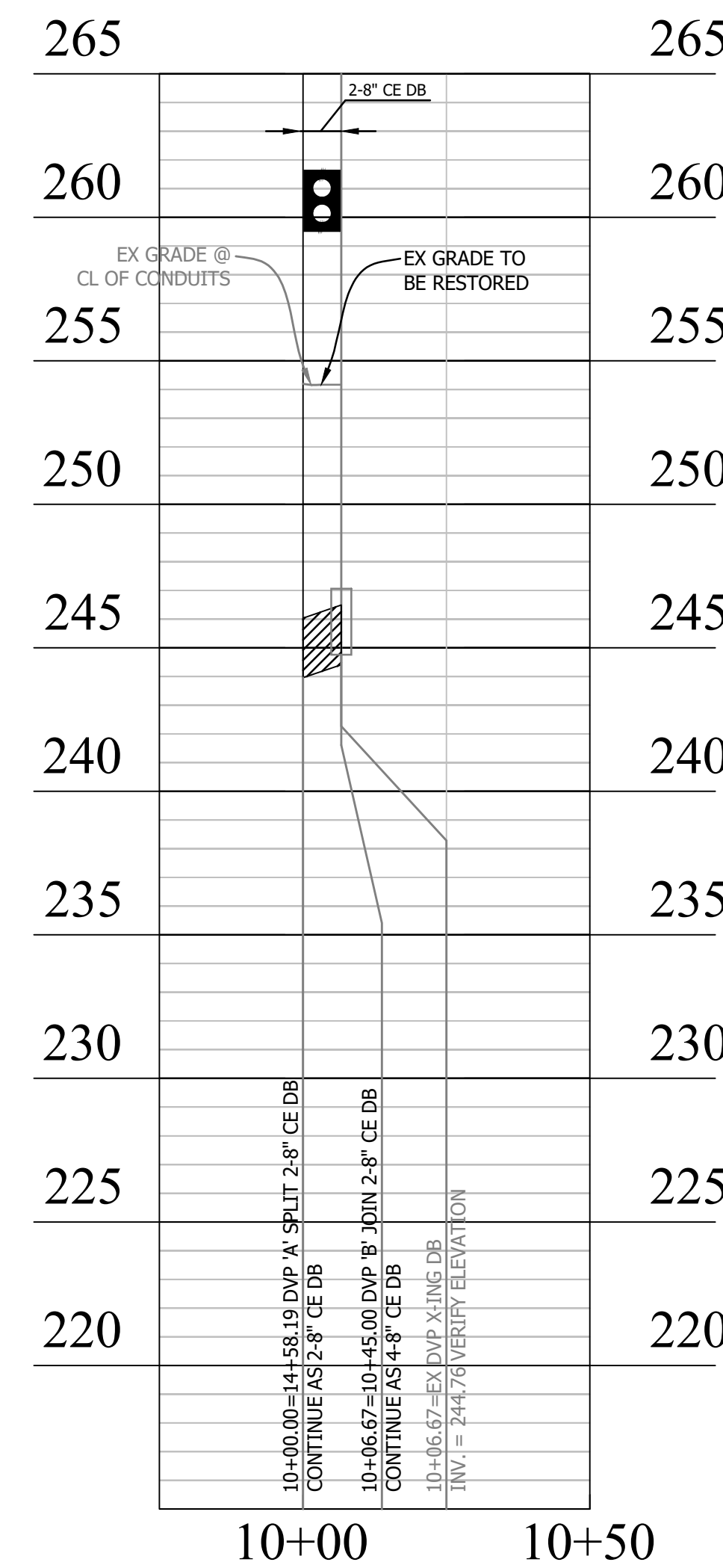
DVP-'B': STUB & CAP DB TO DVP-'A'



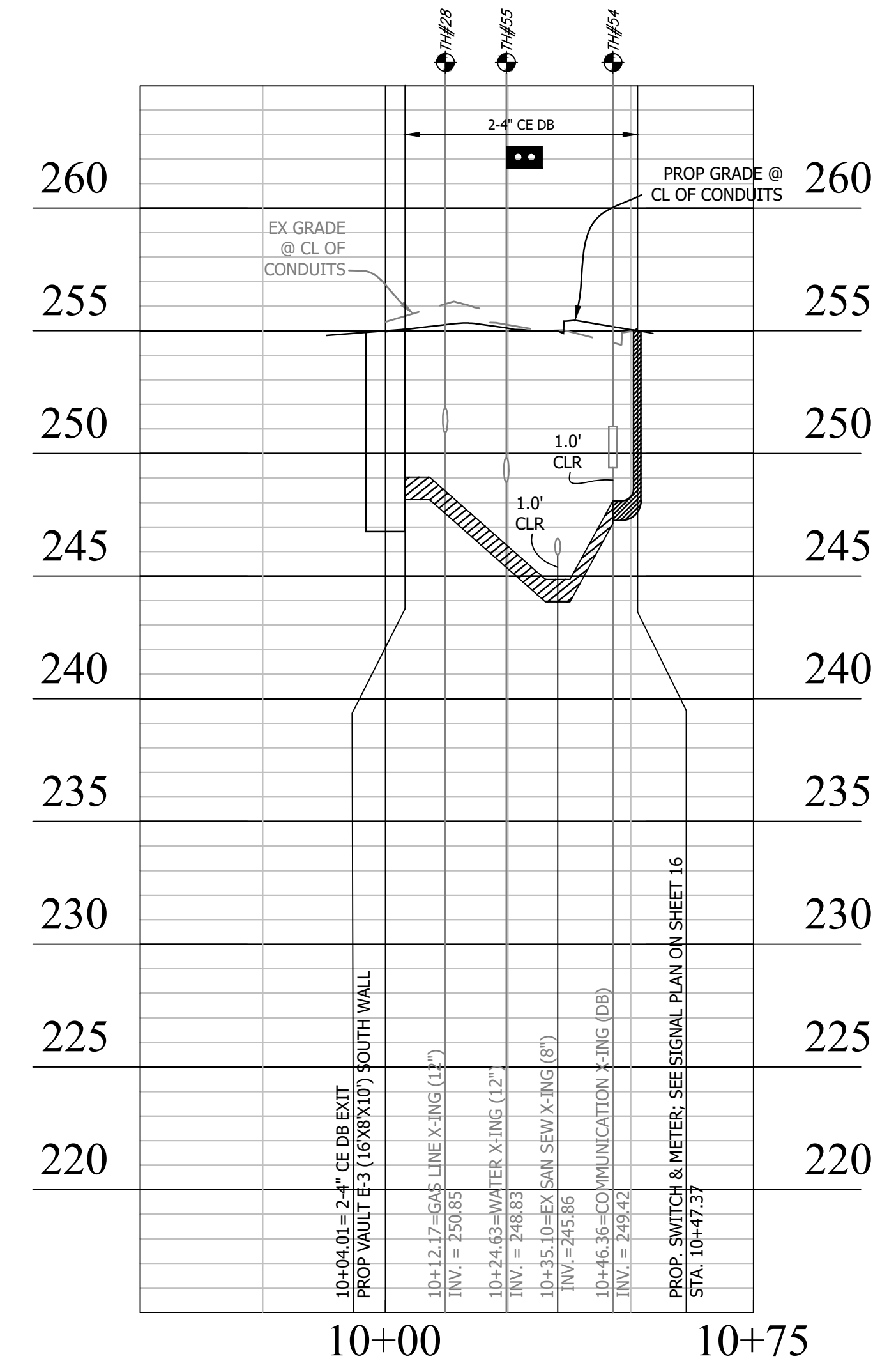
DVP-'C': DVP-'A' TO EX POLE 0179



DVP-'D': DVP-'A' TO EX DVP DB



DVP-'E': PROP VAULT E-3 TO METER



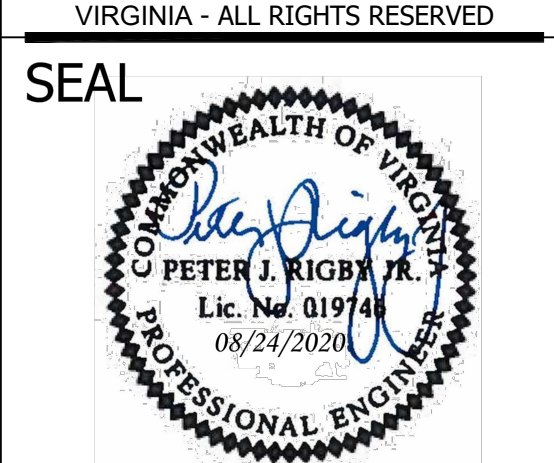
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DBO: DEMOLISH BY OTHERS



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 ENGINEERING BUREAU
 2100 CLARENDON BOULEVARD, SUITE 813
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APPROVALS	DATE
<i>Amy Pflaum</i> QUALITY CONTROL ENGINEER	9/11/2020
<i>Kamal Takab</i> CONSTRUCTION MANAGEMENT SUPERVISOR	8.31.20
<i>[Signature]</i> WATER, SEWER, STREETS BUREAU CHIEF	09.16.2020
<i>Dennis M. Leach</i> TRANSPORTATION DIRECTOR	09/11/20
<i>Gabriela Koch</i> PROJECT MANAGER	August 24, 2020

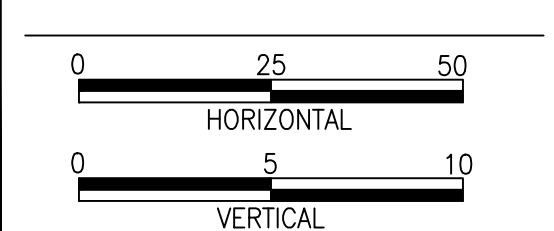
REVISIONS	DATE

Project Name and Location
WASHINGTON BOULEVARD & 13TH STREET NORTH IMPROVEMENTS
 DRY UTILITY PROFILES

Designed: ABB
 Drawn: CDL
 Checked: MSD
 Miss Utility Transmittal #: N/A

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 Plotted by: CL

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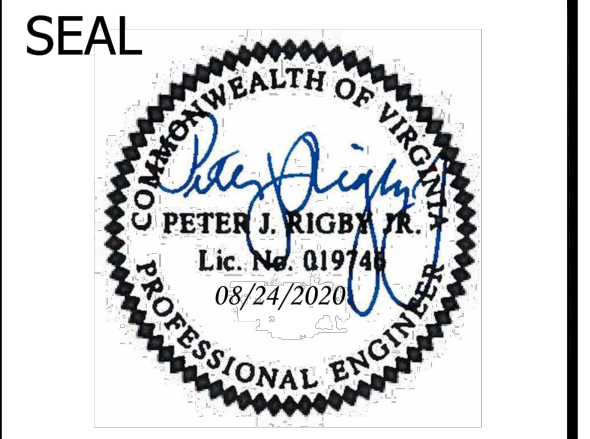
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9C.1 OF 38

COM-'A': RELOCATED POLE #441 TO COMCAST HANDHOLE V-3



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<i>Gabriela Koch</i> PROJECT MANAGER	August 24, 2020

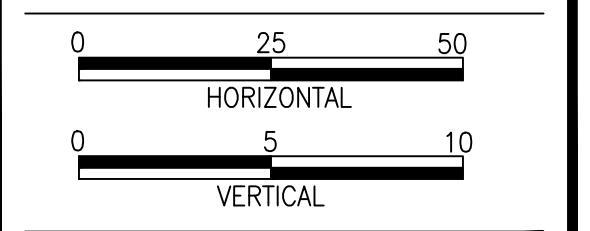
REVISIONS	DATE

Project Name and Location
WASHINGTON BOULEVARD & 13TH STREET NORTH IMPROVEMENTS
 DRY UTILITY PROFILES

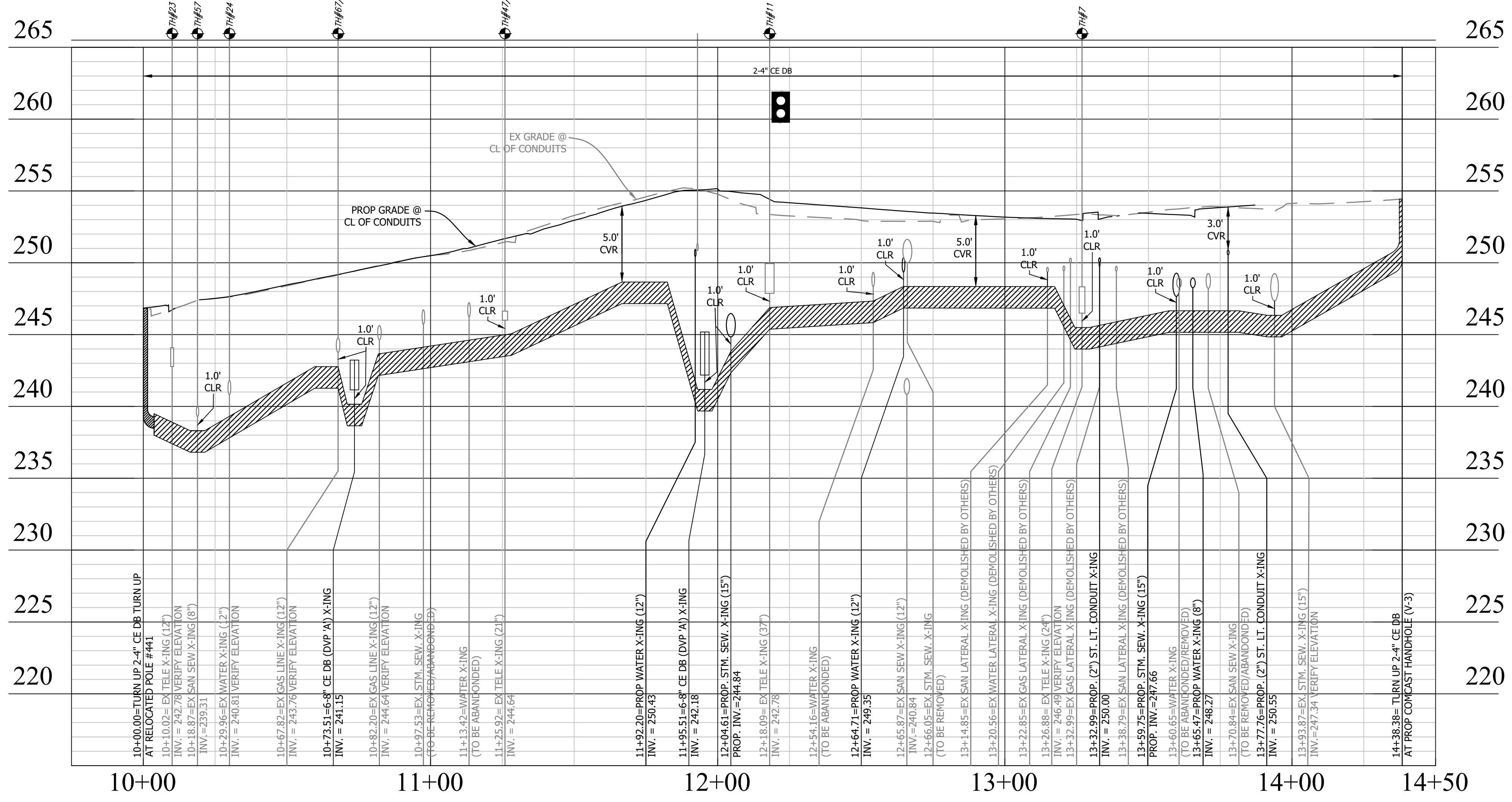
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 Checked: MSD
 Miss Utility Transmittal #: N/A

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 Plotted by: CL

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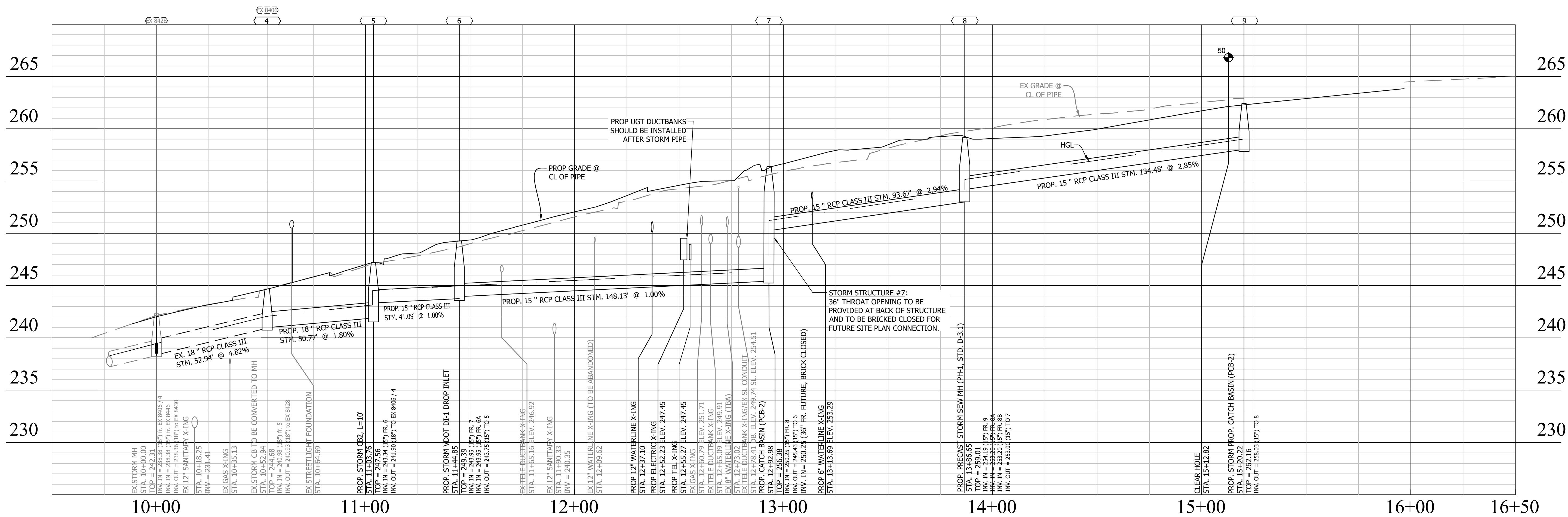


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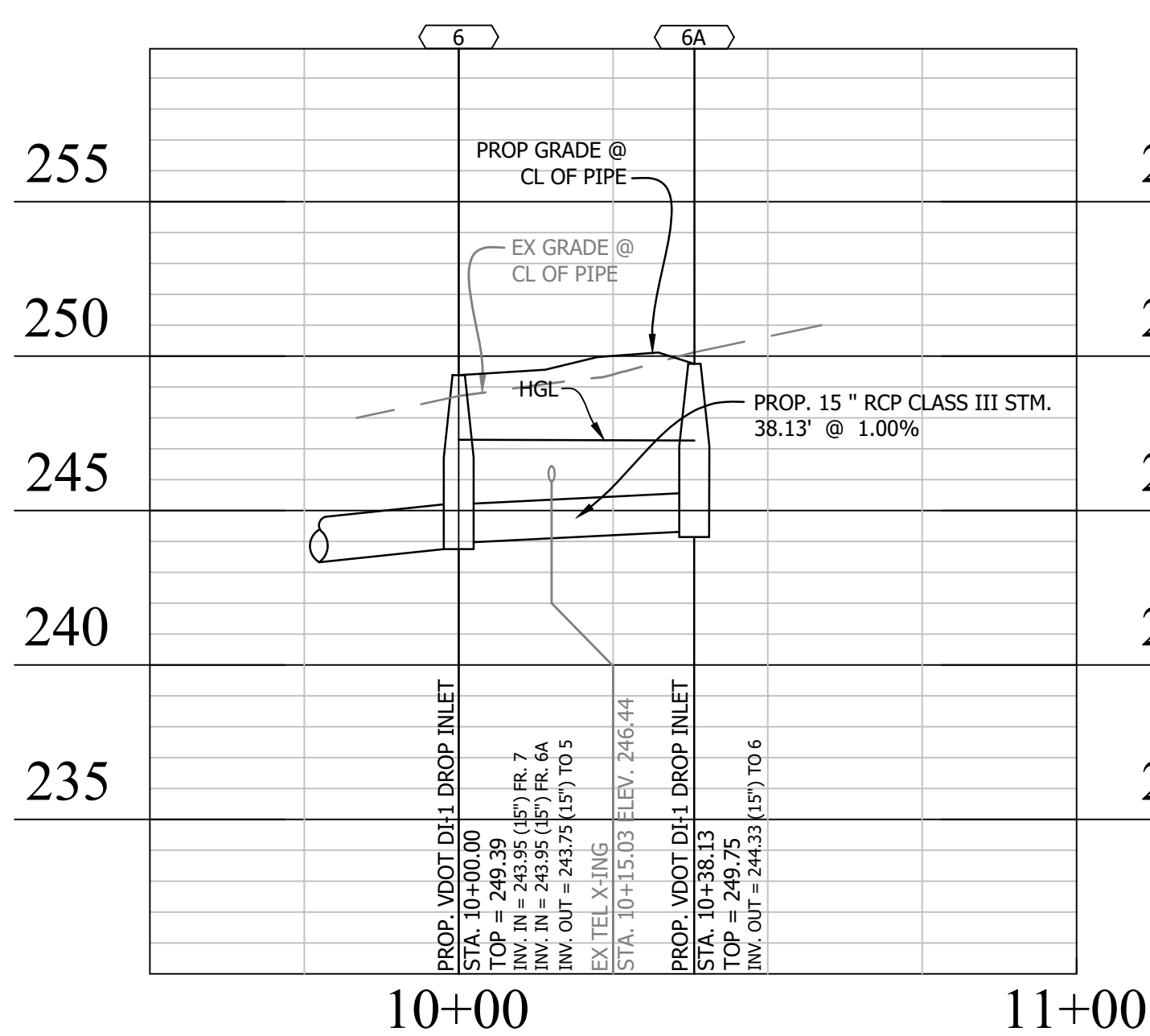


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 TEST PITS REQUIRED: CONTRACTOR TO VERIFY HORIZONTAL AND VERTICAL LOCATION AND ELEVATION OF EXISTING UTILITY CONTRACTOR TO NOTIFY BOWMAN CONSULTING GROUP OF ANY DISCREPANCIES.
 DBO: DEMOLISH BY OTHERS

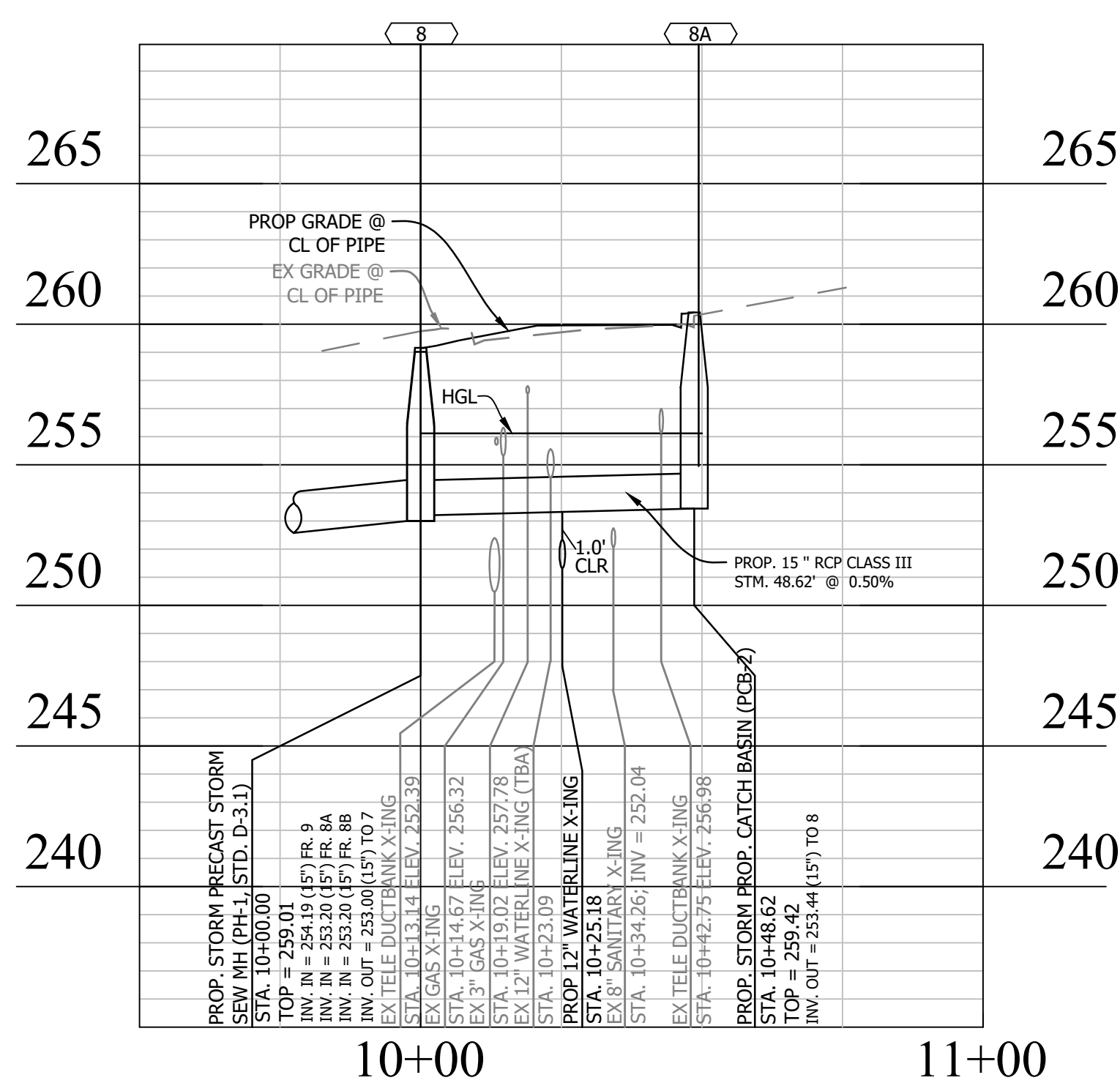
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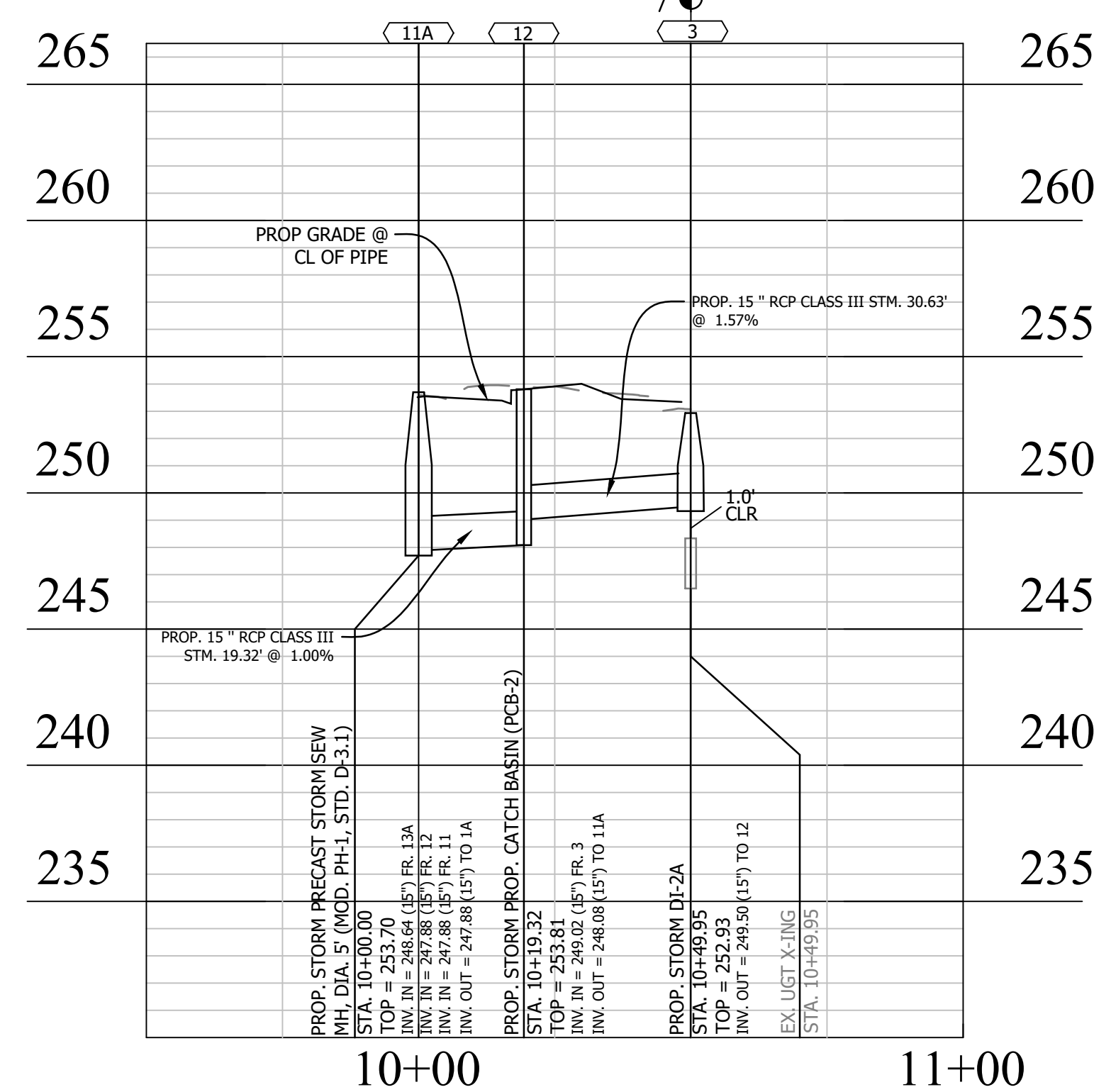
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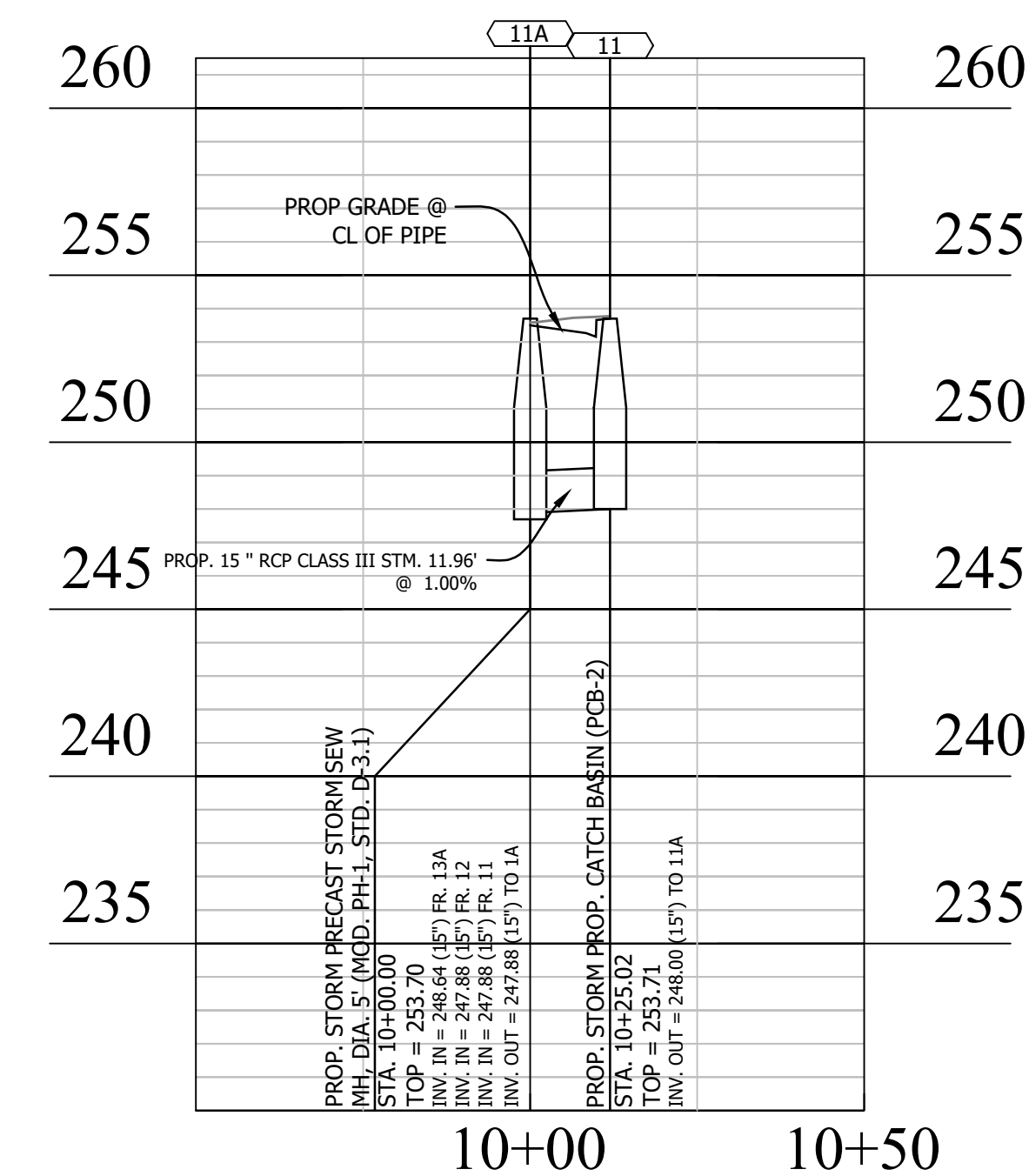
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STORM SEWER 3-11A



STORM SEWER 11-11A



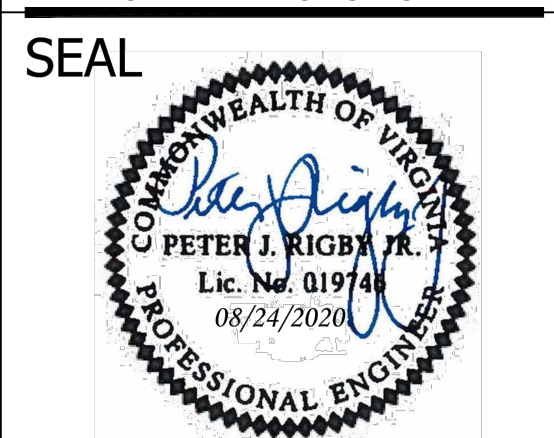
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 ARLINGTON, VA 22201
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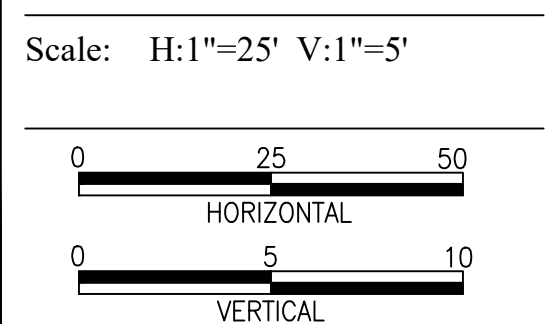
APPROVALS	DATE
Amy Pflaum QUALITY CONTROL ENGINEER	9/11/2020
Kamal Taktak CONSTRUCTION MANAGEMENT SUPERVISOR	8.31.20
[Signature] WATER, SEWER, STREETS BUREAU CHIEF	09.16.2020
Dennis M. Leach TRANSPORTATION DIRECTOR	09/11/20
Gabriela Koch PROJECT MANAGER	August 24, 2020

REVISIONS	DATE

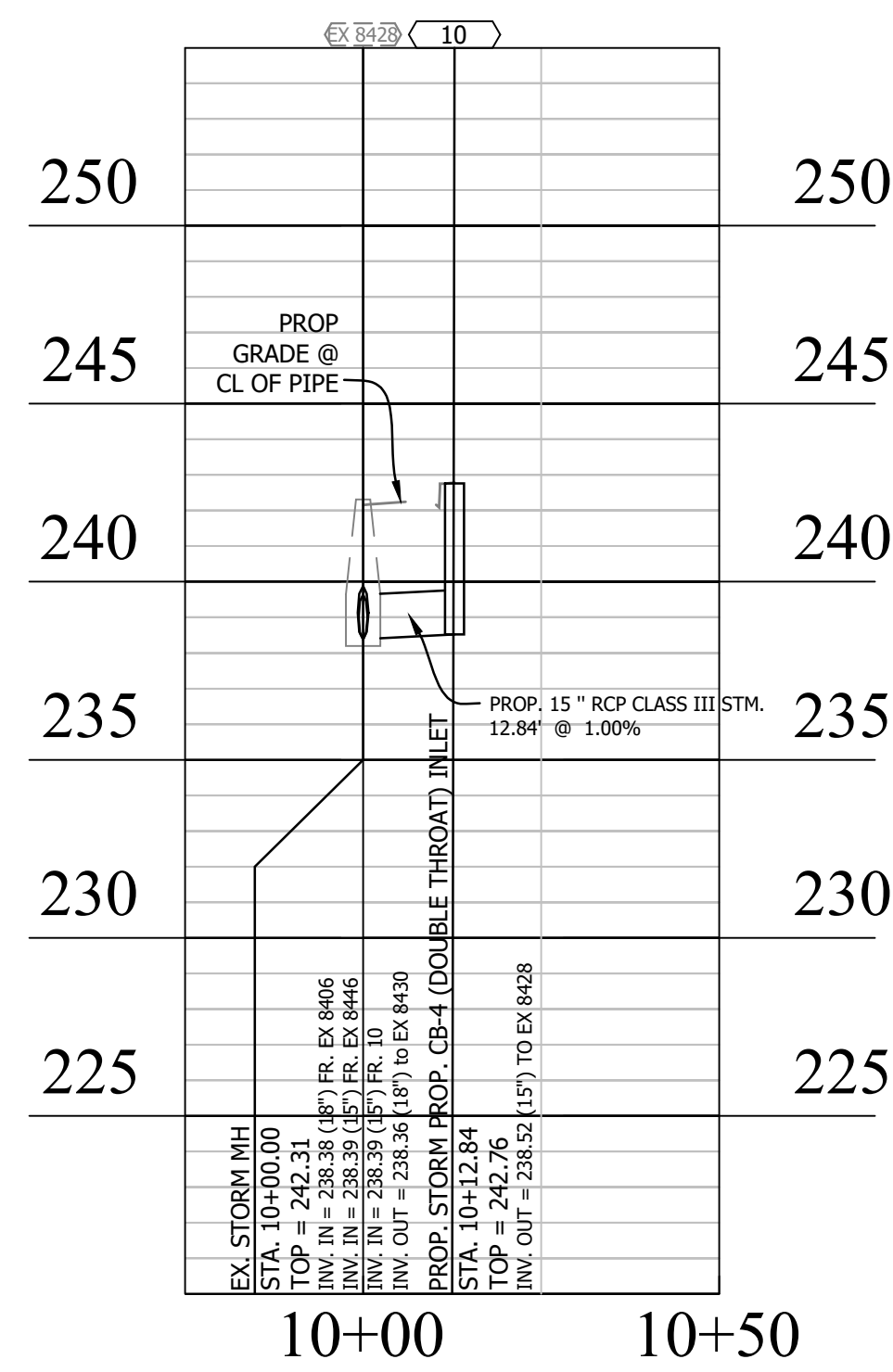
Project Name and Location
WASHINGTON BOULEVARD & 13TH STREET NORTH IMPROVEMENTS
 STORM SEWER PROFILES (1 OF 2)

Designed: ABB
 Drawn: CDI
 Checked: MSD
 Miss Utility Transmittal #: N/A

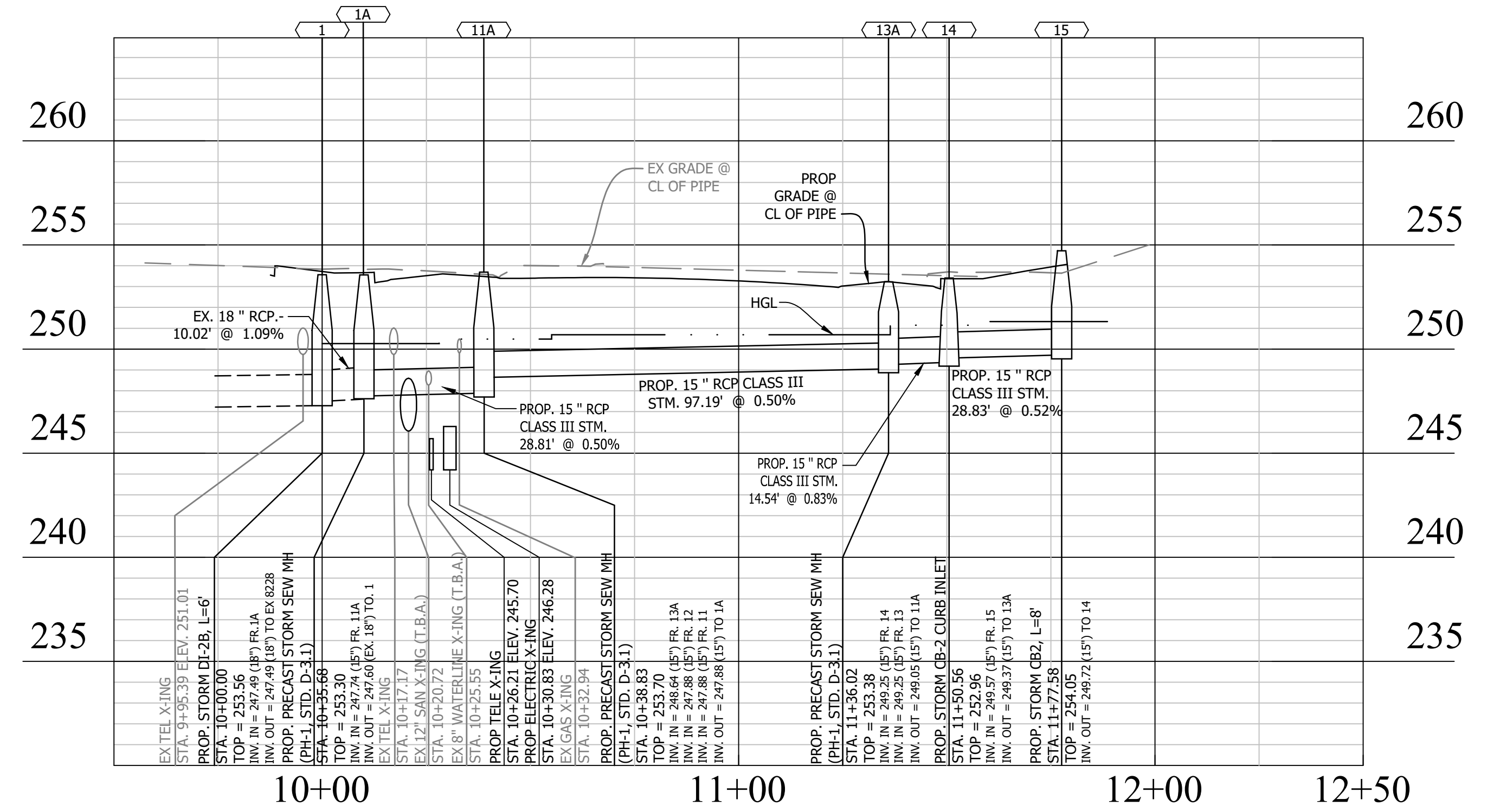
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 Plotted: September 17, 2020
 Plotted by: CL



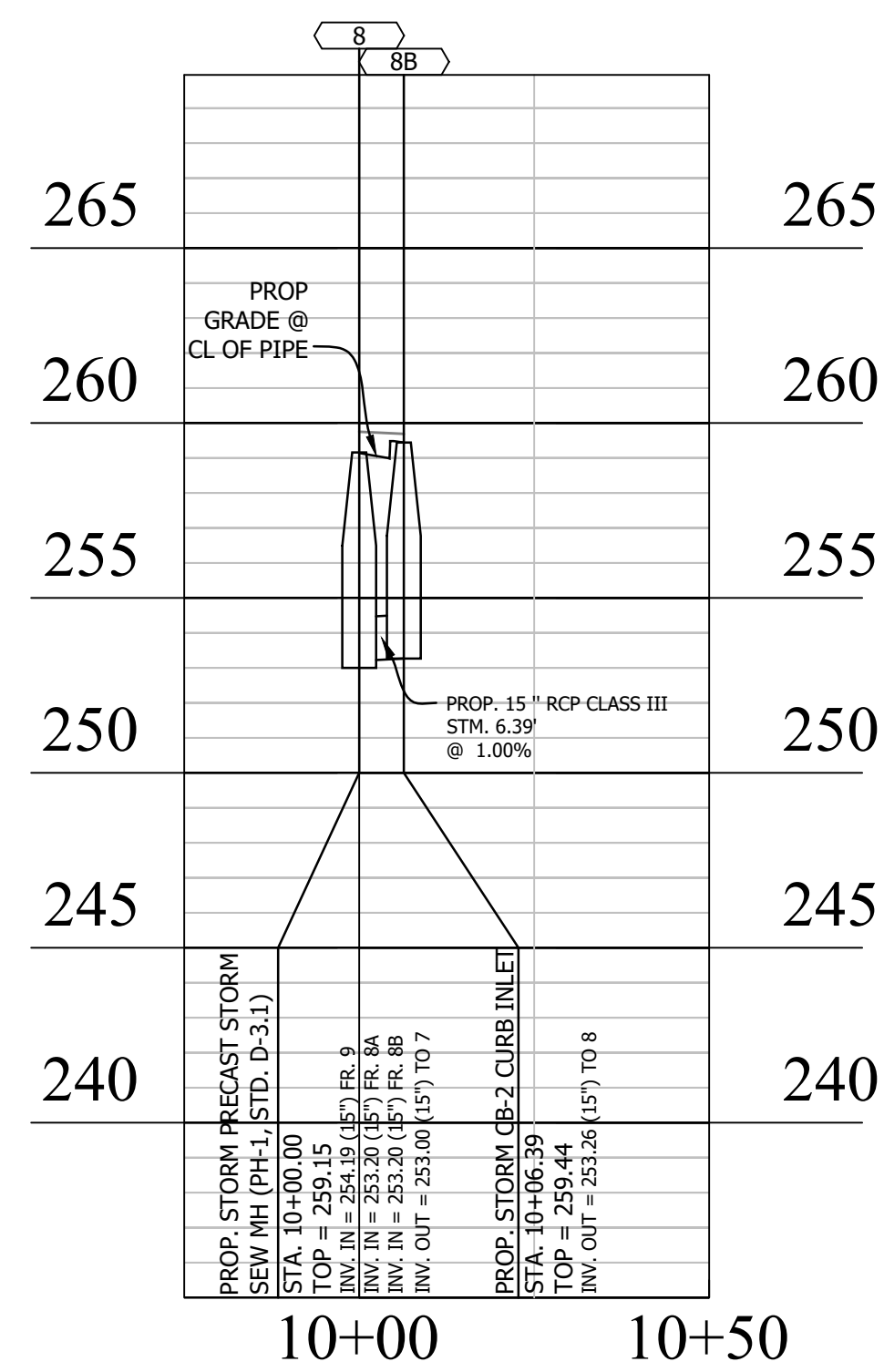
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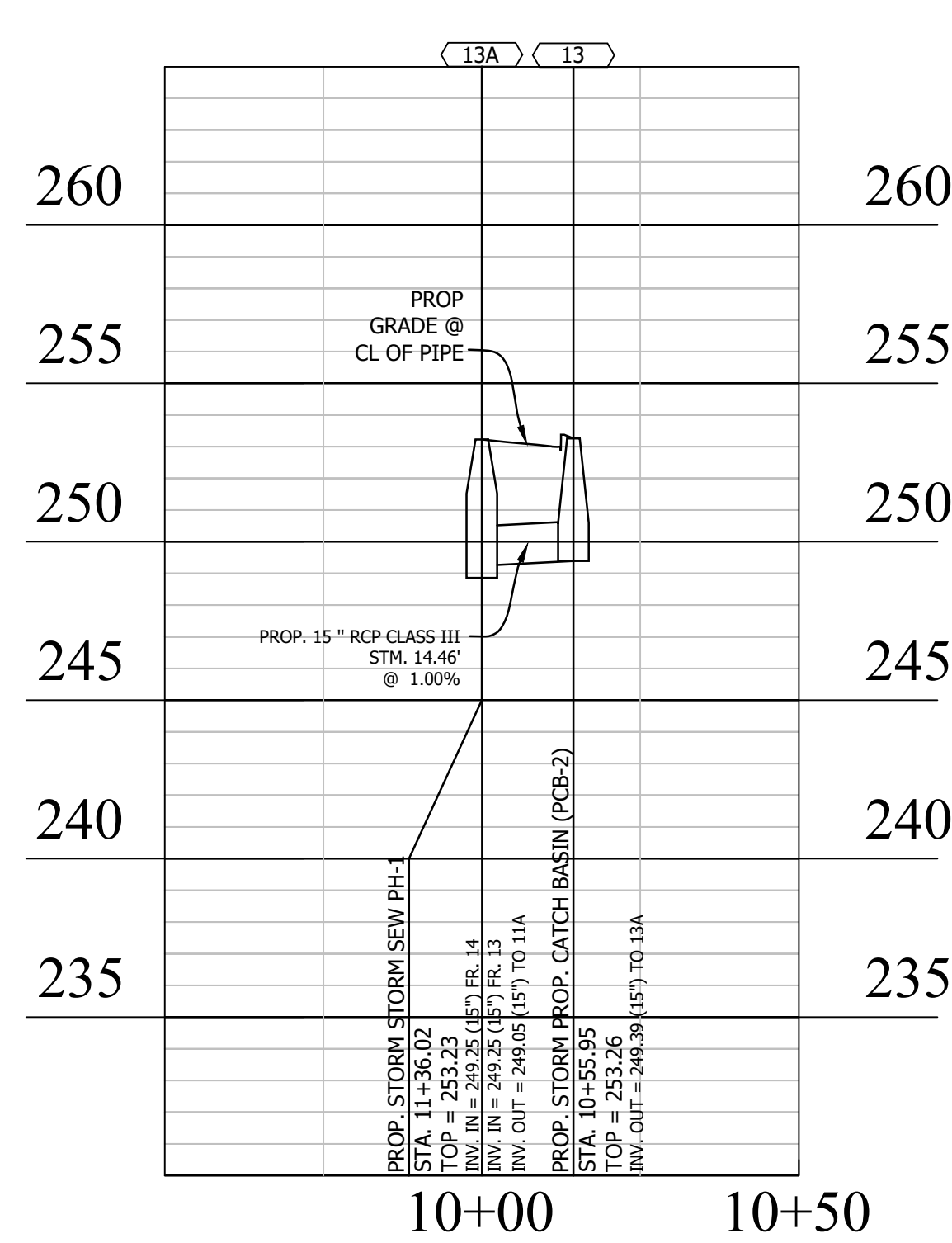
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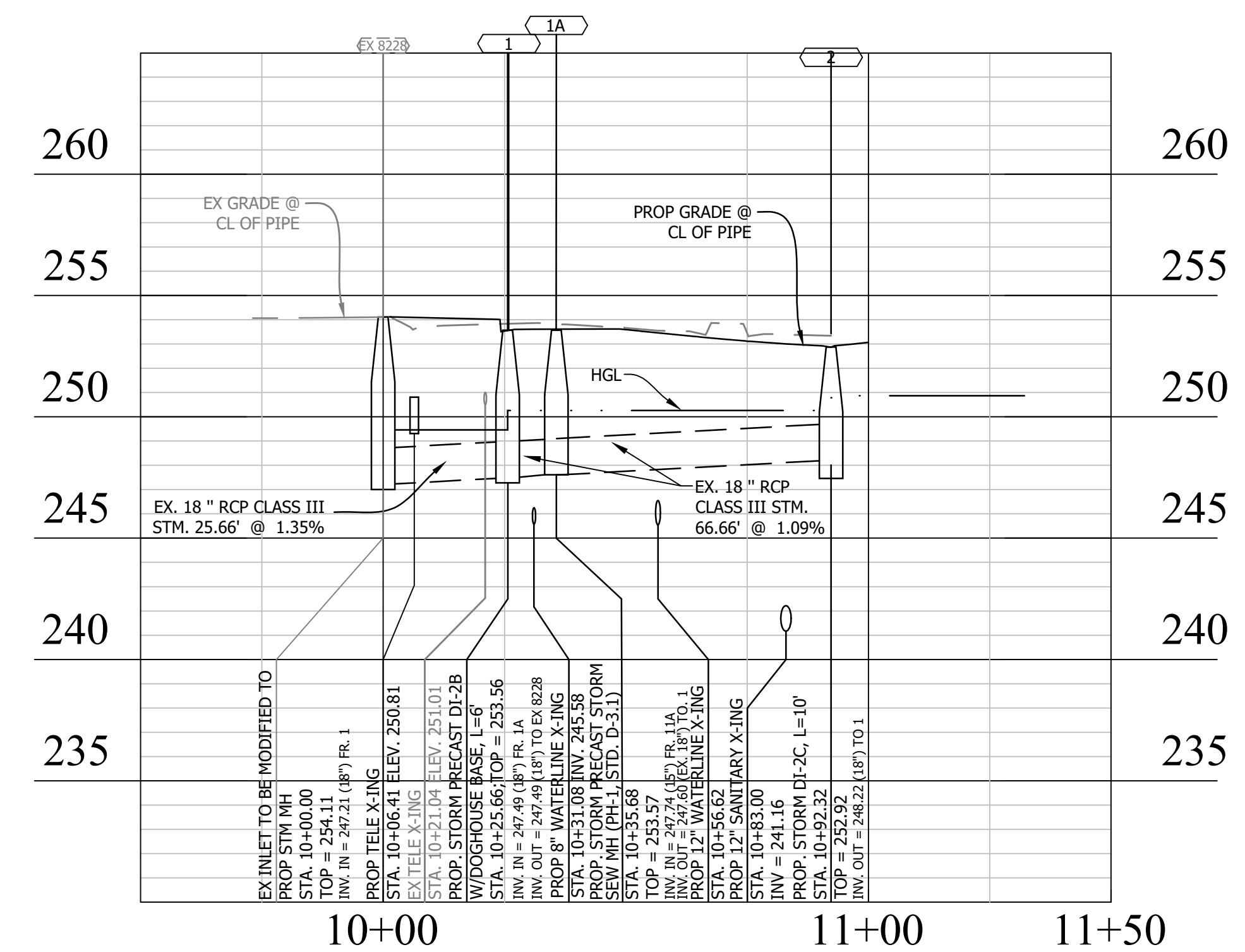
STORM SEWER 8B-8



STORM SEWER 13-13A



STORM SEWER 2-EX8228



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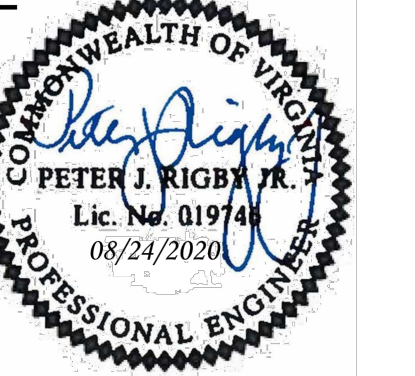
DBO: DEMOLISH BY OTHERS



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SEAL



APPROVALS DATE

Amy Pflaum 9/11/2020
 QUALITY CONTROL ENGINEER
Kamal Tabak 8.31.20
 CONSTRUCTION MANAGEMENT SUPERVISOR
Jeffrey 09.16.2020
 WATER, SEWER, STREETS BUREAU CHIEF
Dennis M. Leach 09/11/20
 TRANSPORTATION DIRECTOR
Gabriela Koch August 24, 2020
 PROJECT MANAGER

REVISIONS DATE

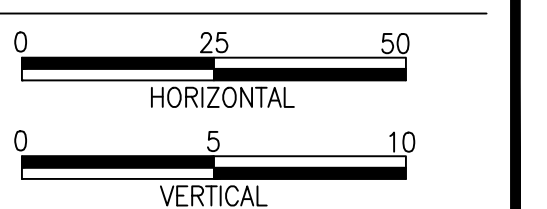
REVISIONS	DATE

Project Name and Location
WASHINGTON BOULEVARD & 13TH STREET NORTH IMPROVEMENTS
 STORM SEWER PROFILES (2 OF 2)

Designed: ABB
 Drawn: CDL
 Checked: MSD
 Miss Utility Transmittal #: N/A

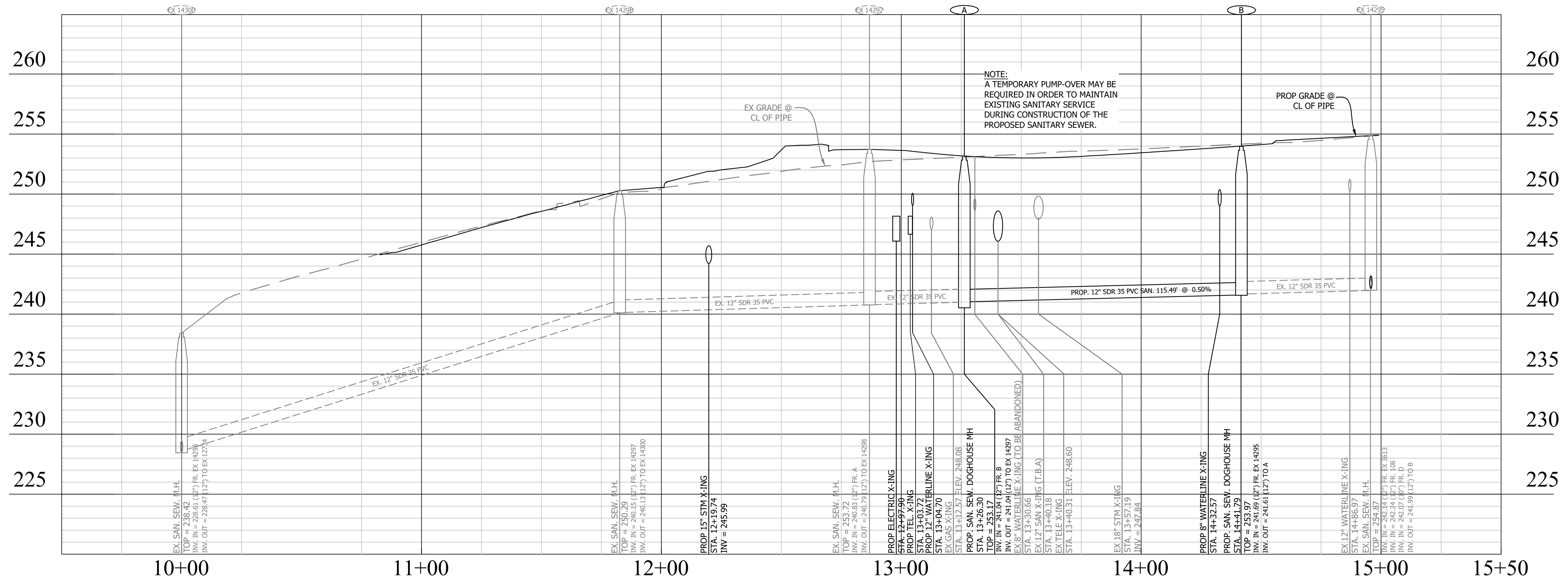
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 Plotted by: CL

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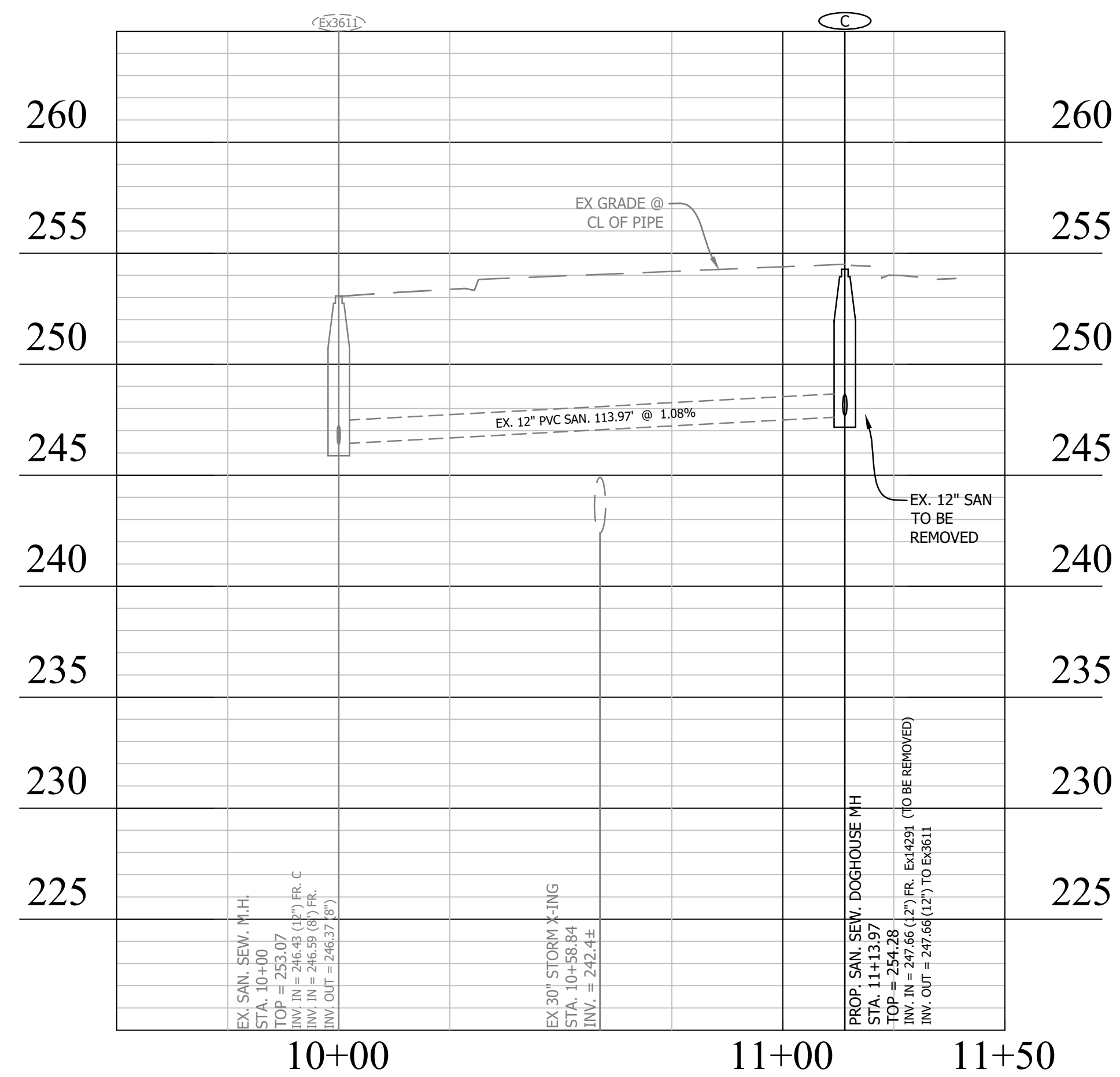


Sheet
9E OF 38

SANITARY SEWER EX 14295-EX 14300



SANITARY SEWER C-EX3611



ELEVATIONS SHOWN HEREON ARE TO THE TOP OF THE FACILITY UNLESS OTHERWISE NOTED.

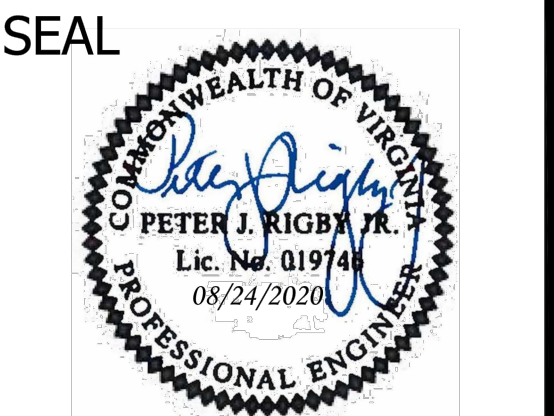
TEST PITS REQUIRED: CONTRACTOR TO VERIFY HORIZONTAL AND VERTICAL LOCATION AND ELEVATION OF EXISTING UTILITY CONTRACTOR TO NOTIFY BOWMAN CONSULTING GROUP OF ANY DISCREPANCIES.

DBO: DEMOLISH BY OTHERS



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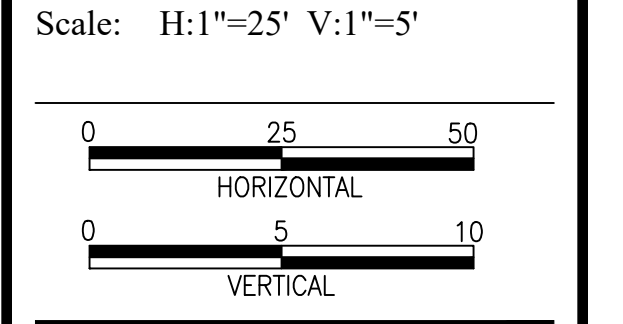
APPROVALS	DATE
<i>Amy Pflaum</i> QUALITY CONTROL ENGINEER	9/11/2020
<i>Kamal Taktak</i> CONSTRUCTION MANAGEMENT SUPERVISOR	8.31.20
<i>[Signature]</i> WATER, SEWER, STREETS BUREAU CHIEF	09.16.2020
<i>Dennis W. Leach</i> TRANSPORTATION DIRECTOR	09/11/20
<i>Gabriela Kock</i> PROJECT MANAGER	August 24, 2020

REVISIONS	DATE

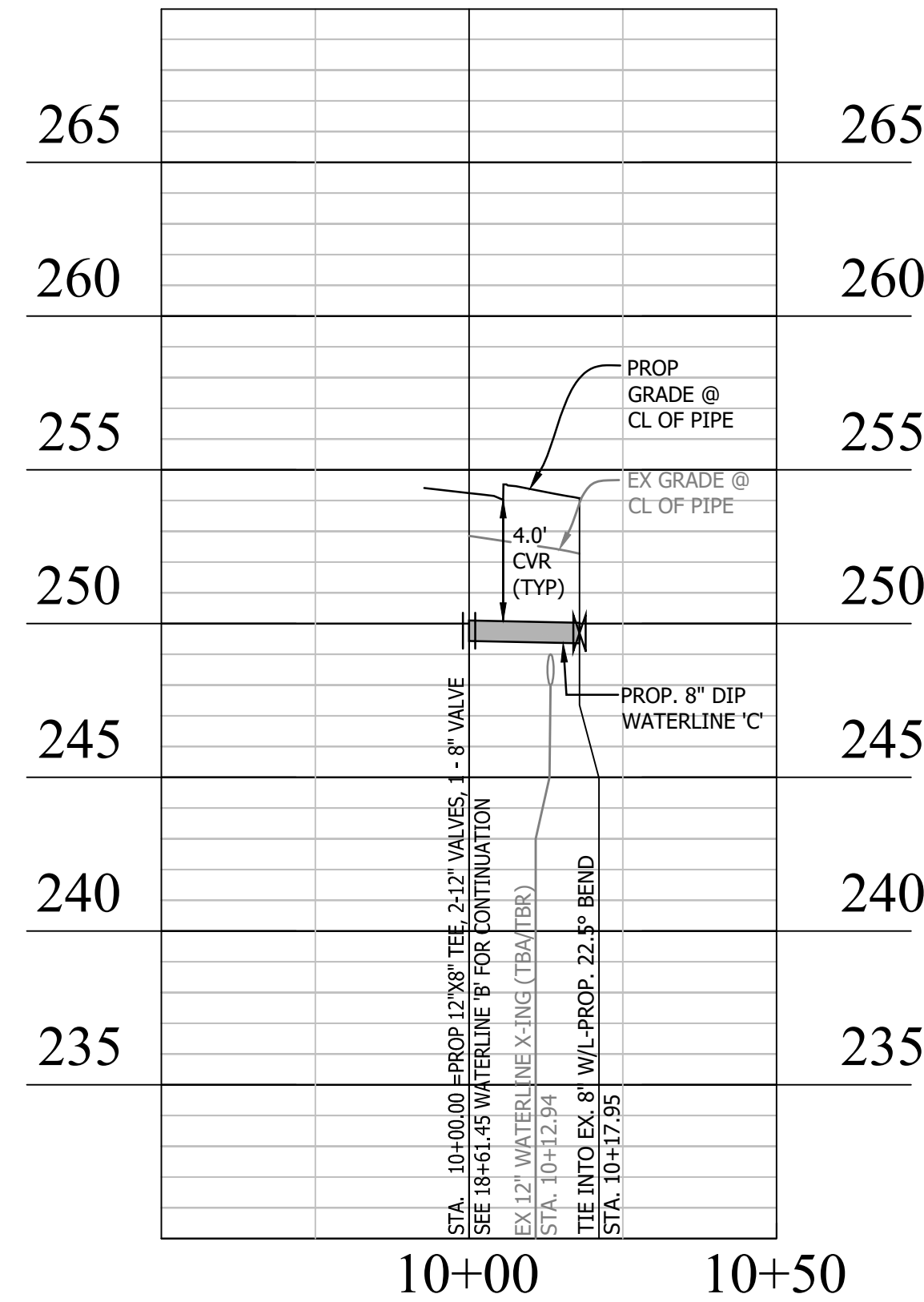
Project Name and Location
**WASHINGTON BOULEVARD
 & 13TH STREET NORTH IMPROVEMENTS**
 SANITARY SEWER PROFILE

Designed: ABB
 Drawn: CDL
 Checked: MSD
 Miss Utility Transmittal #: N/A

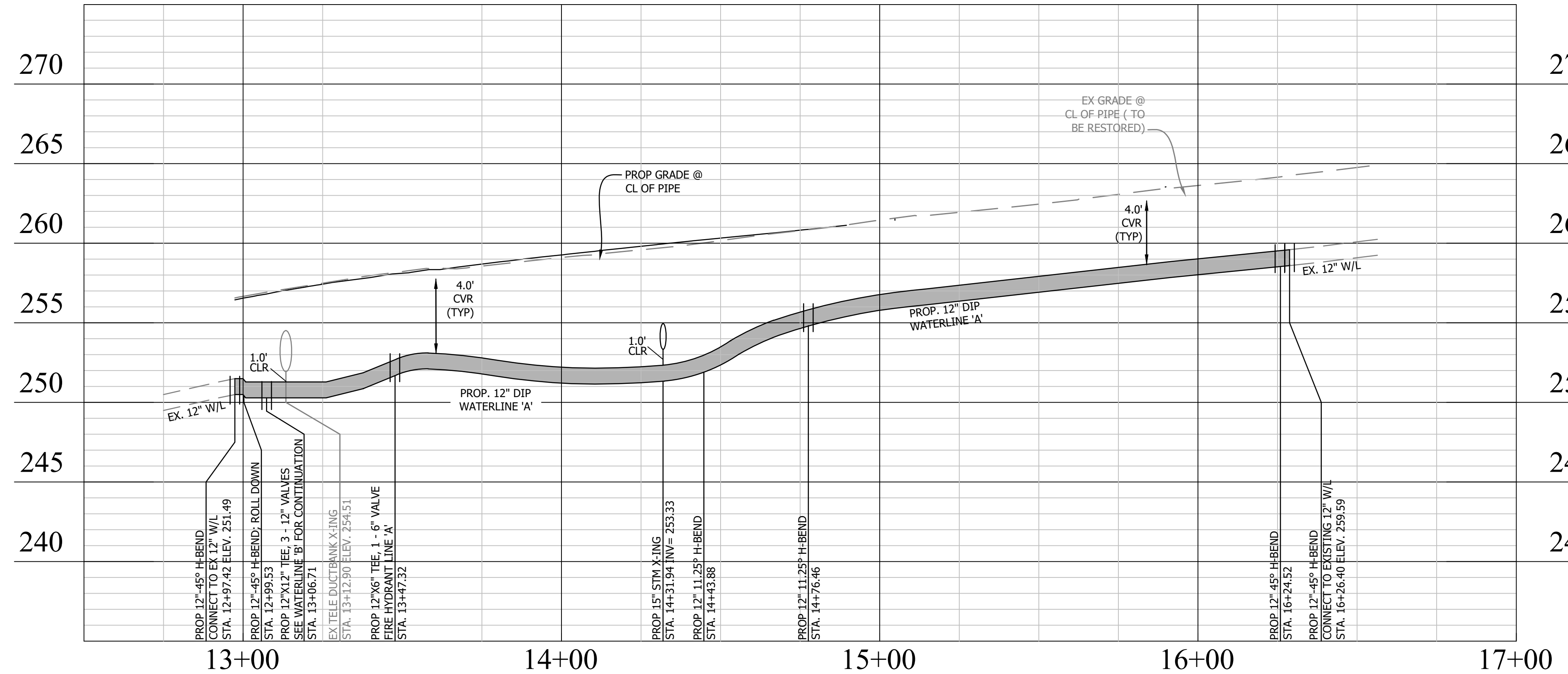
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 ARCHIVE\REVISED APPROVED PLANS
 Plotted: September 17, 2020
 Plotted by: CL



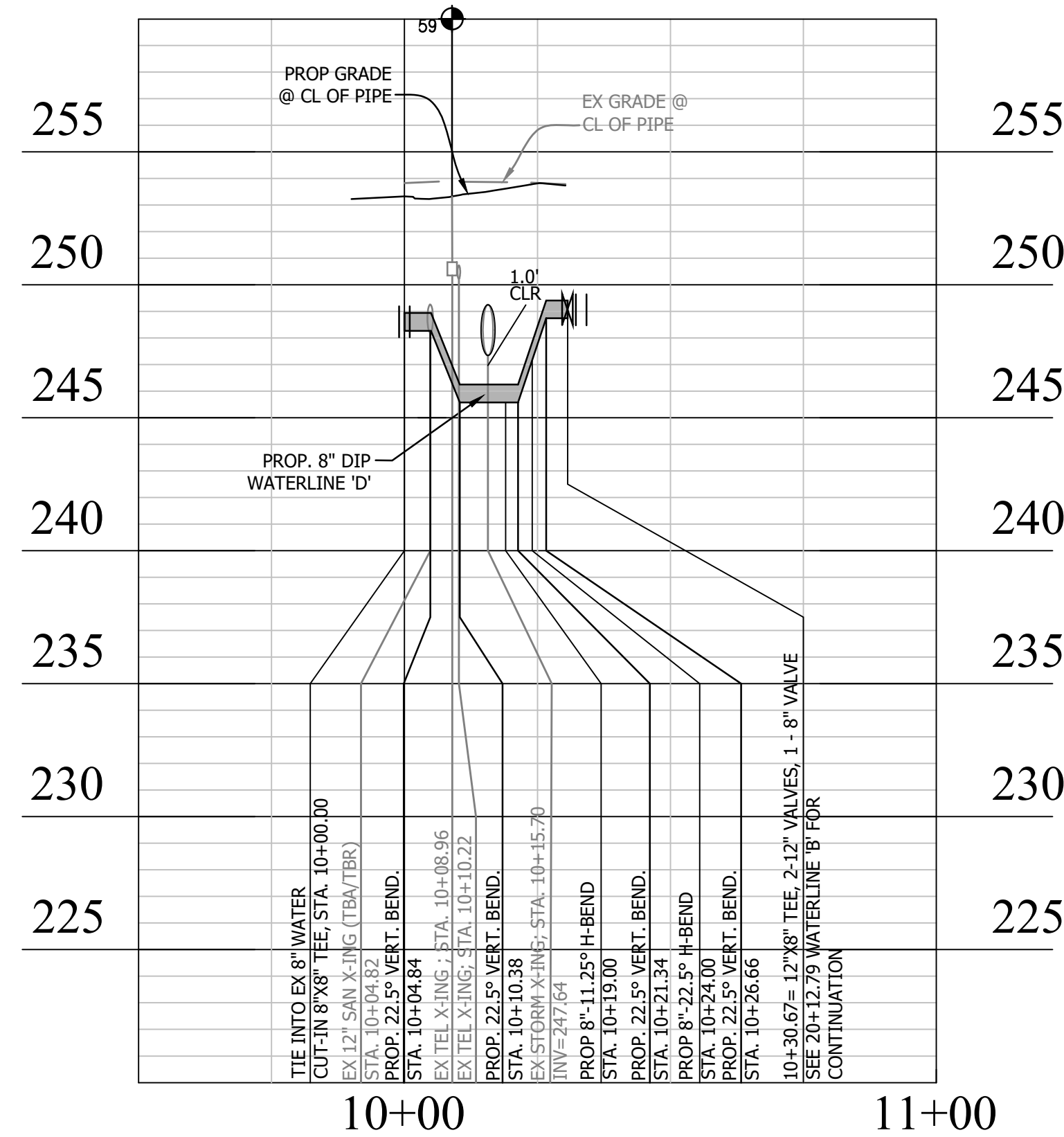
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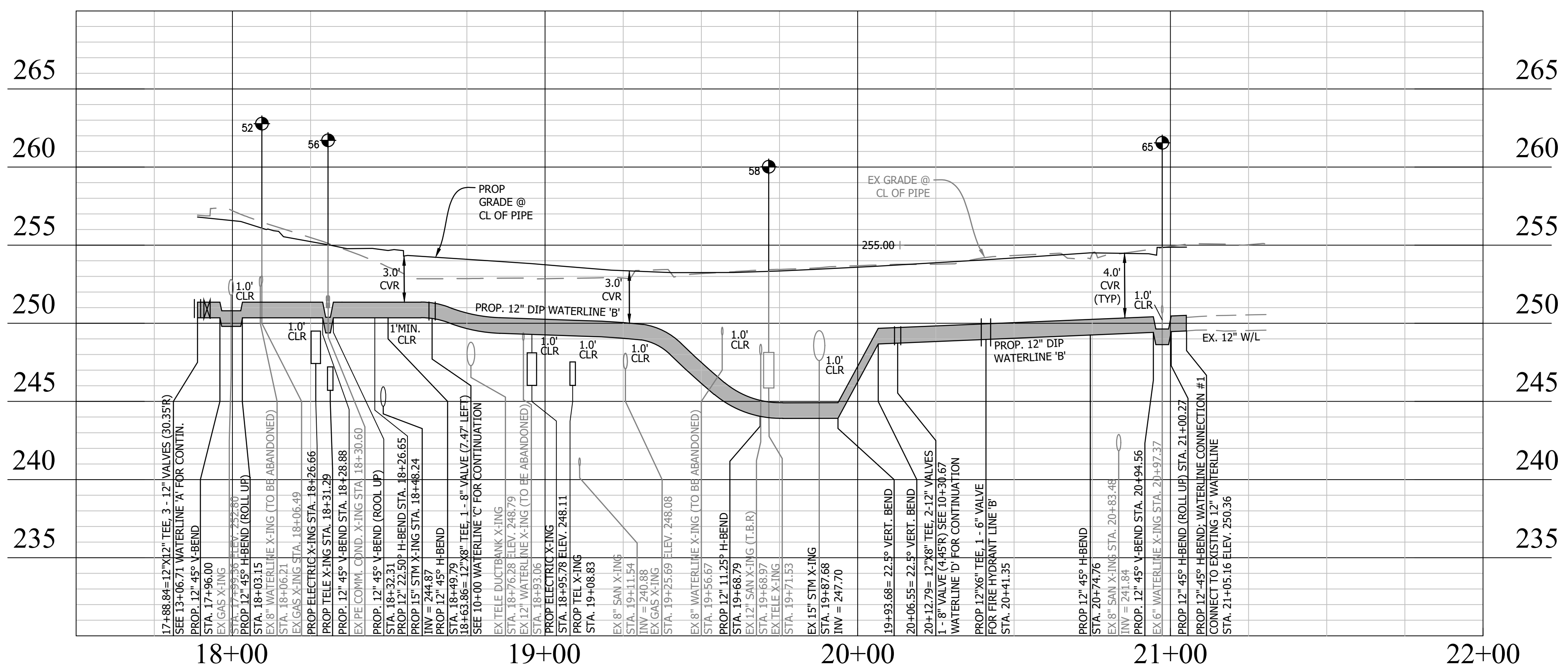
WASHINGTON BLVD WATERLINE 'A'



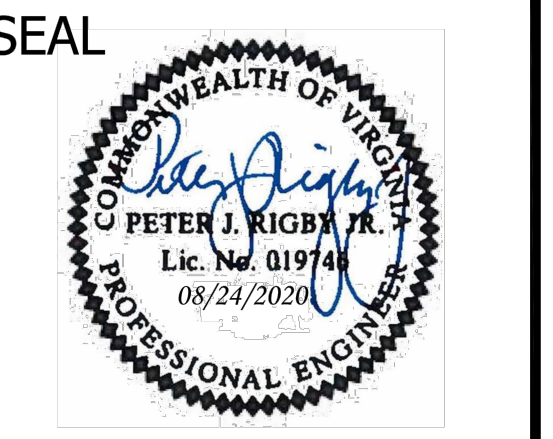
NORTH JOHNSON ST WATERLINE 'D'



13TH STREET NORTH WATERLINE 'B'



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APPROVALS	DATE
Amy Pfau	9/11/2020
QUALITY CONTROL ENGINEER	
Kamal Taktak	8.31.20
CONSTRUCTION MANAGEMENT SUPERVISOR	
[Signature]	09.16.2020
WATER, SEWER, STREETS BUREAU CHIEF	
Dennis M. Leach	09/11/20
TRANSPORTATION DIRECTOR	
Gabriela Koch	August 24, 2020
PROJECT MANAGER	

REVISIONS	DATE

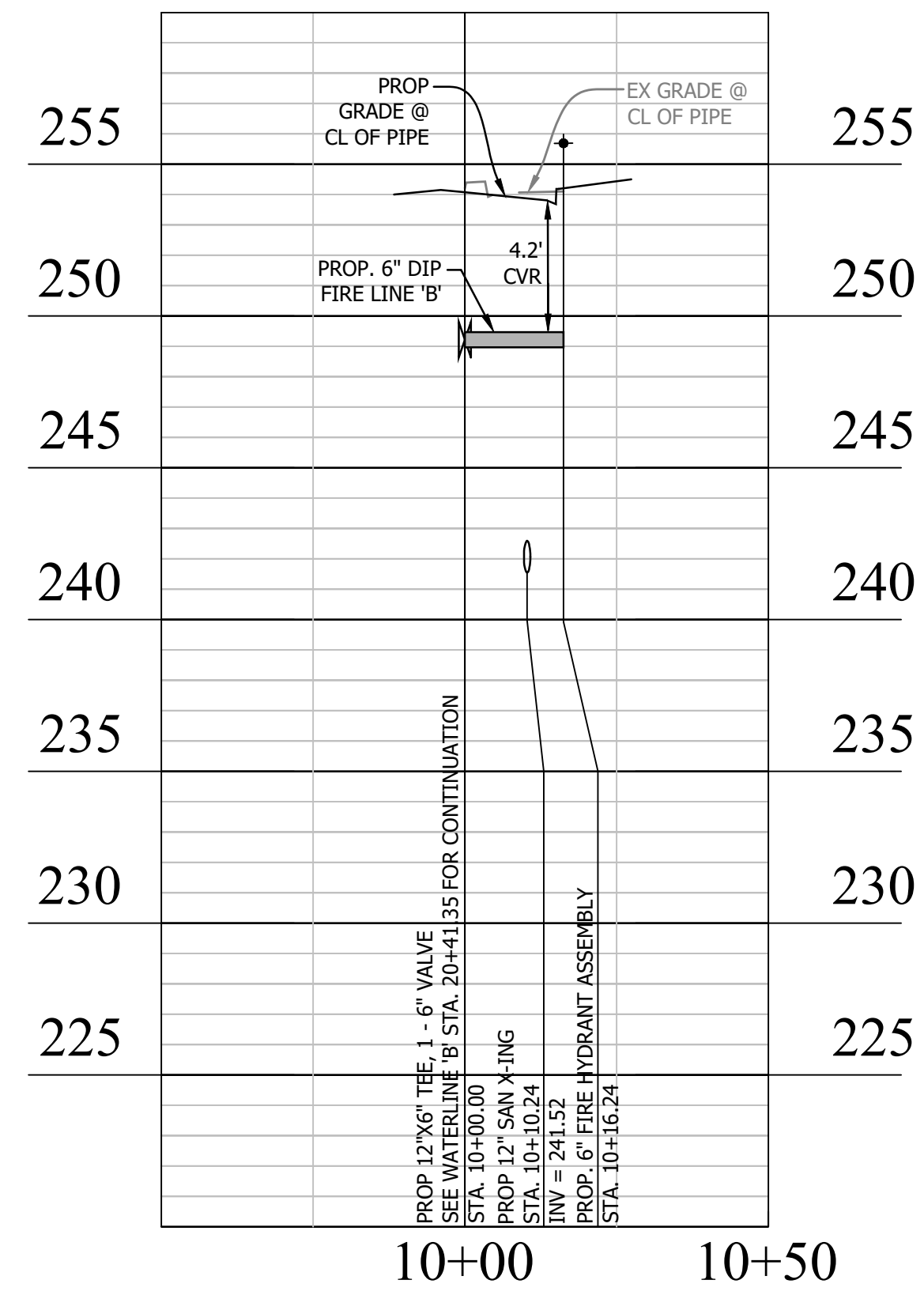
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WASHINGTON BOULEVARD & 13TH STREET NORTH IMPROVEMENTS
 WATERLINE PROFILES

Designed: ABB
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 Checked: MSD
 Miss Utility Transmittal #: N/A

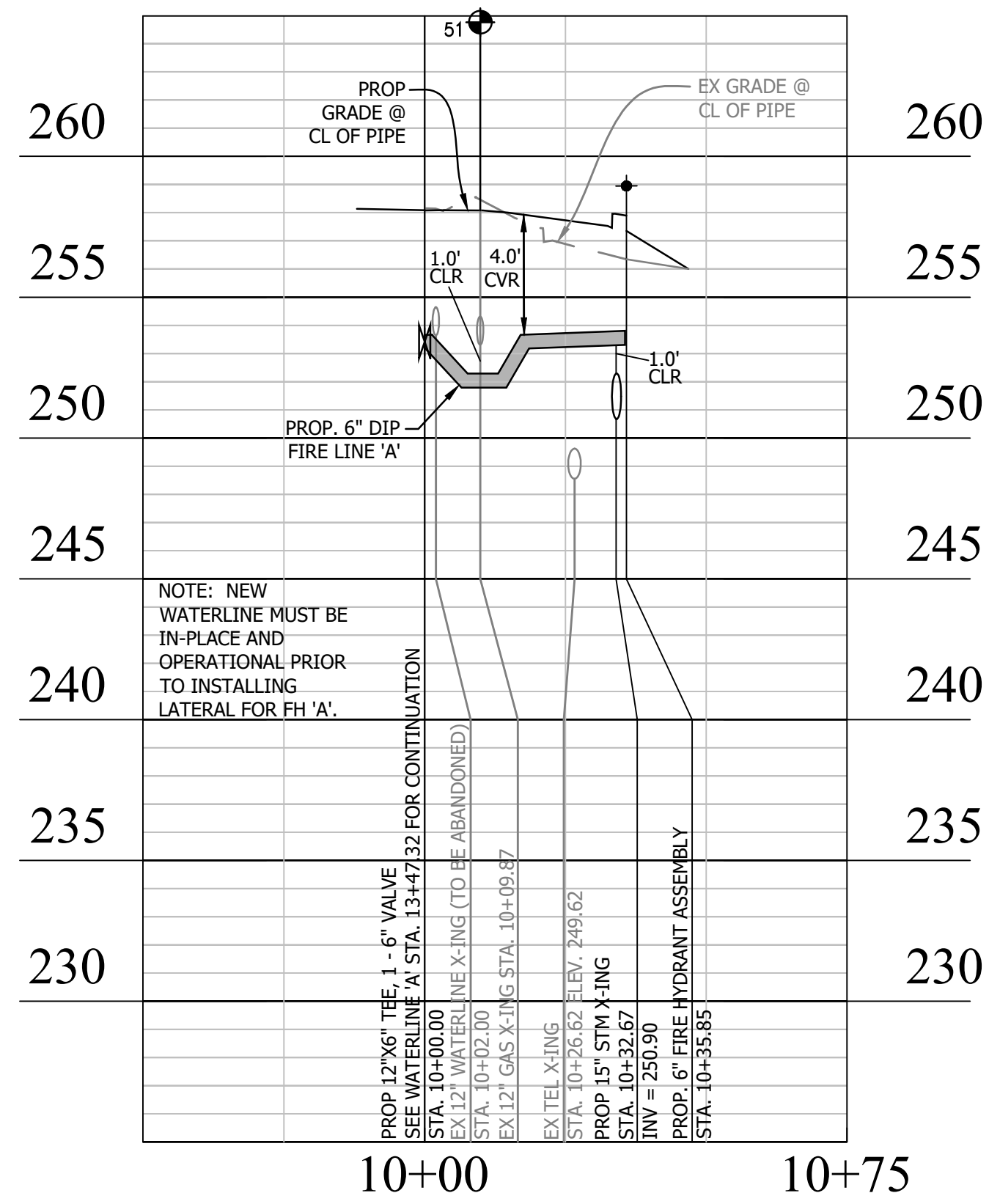
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 (REVISED APPROVED PLANS)
 Plotted: September 17, 2020
 Plotted by: CL

Scale: H:1"=25' V:1"=5'

13TH STREET NORTH FIRE HYDRANT LINE 'B'



WASHINGTON BLVD FIRE HYDRANT LINE 'A'



ELEVATIONS SHOWN HEREON ARE TO THE TOP OF THE FACILITY UNLESS OTHERWISE NOTED.

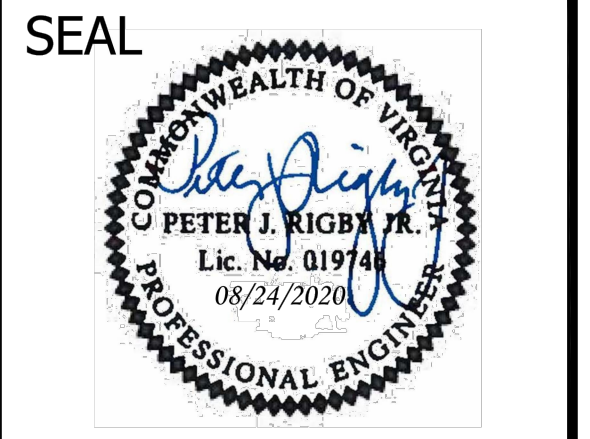
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APPROVALS	DATE
<i>Amy Pflaum</i> QUALITY CONTROL ENGINEER	9/11/2020
<i>Kamal Takab</i> CONSTRUCTION MANAGEMENT SUPERVISOR	8.31.20
<i>[Signature]</i> WATER, SEWER, STREETS BUREAU CHIEF	09.16.2020
<i>Dannia M. Leach</i> TRANSPORTATION DIRECTOR	09/11/20
<i>Gabriela Koch</i> PROJECT MANAGER	August 24, 2020

REVISIONS	DATE

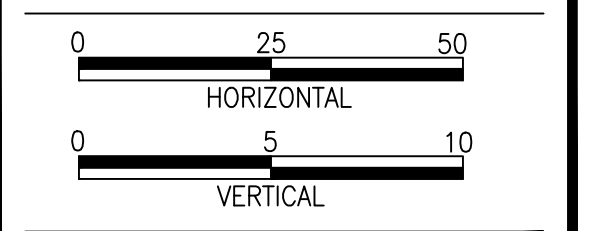
Project Name and Location
**WASHINGTON BOULEVARD
& 13TH STREET NORTH IMPROVEMENTS**

FIRE LINE PROFILES

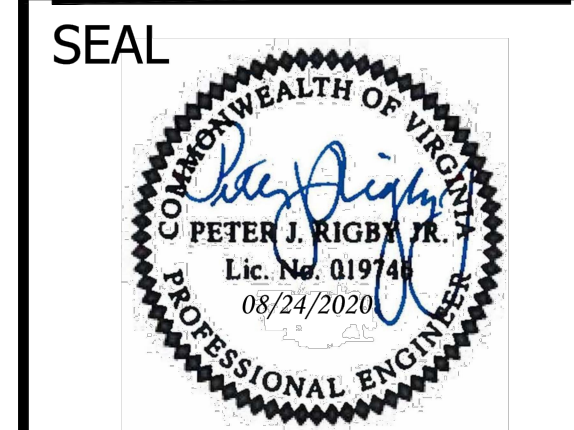
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Miss Utility Transmittal #: N/A

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ARCHIVE/REVISED APPROVED PLANS
Plotted: September 17, 2020
Plotted by: CL

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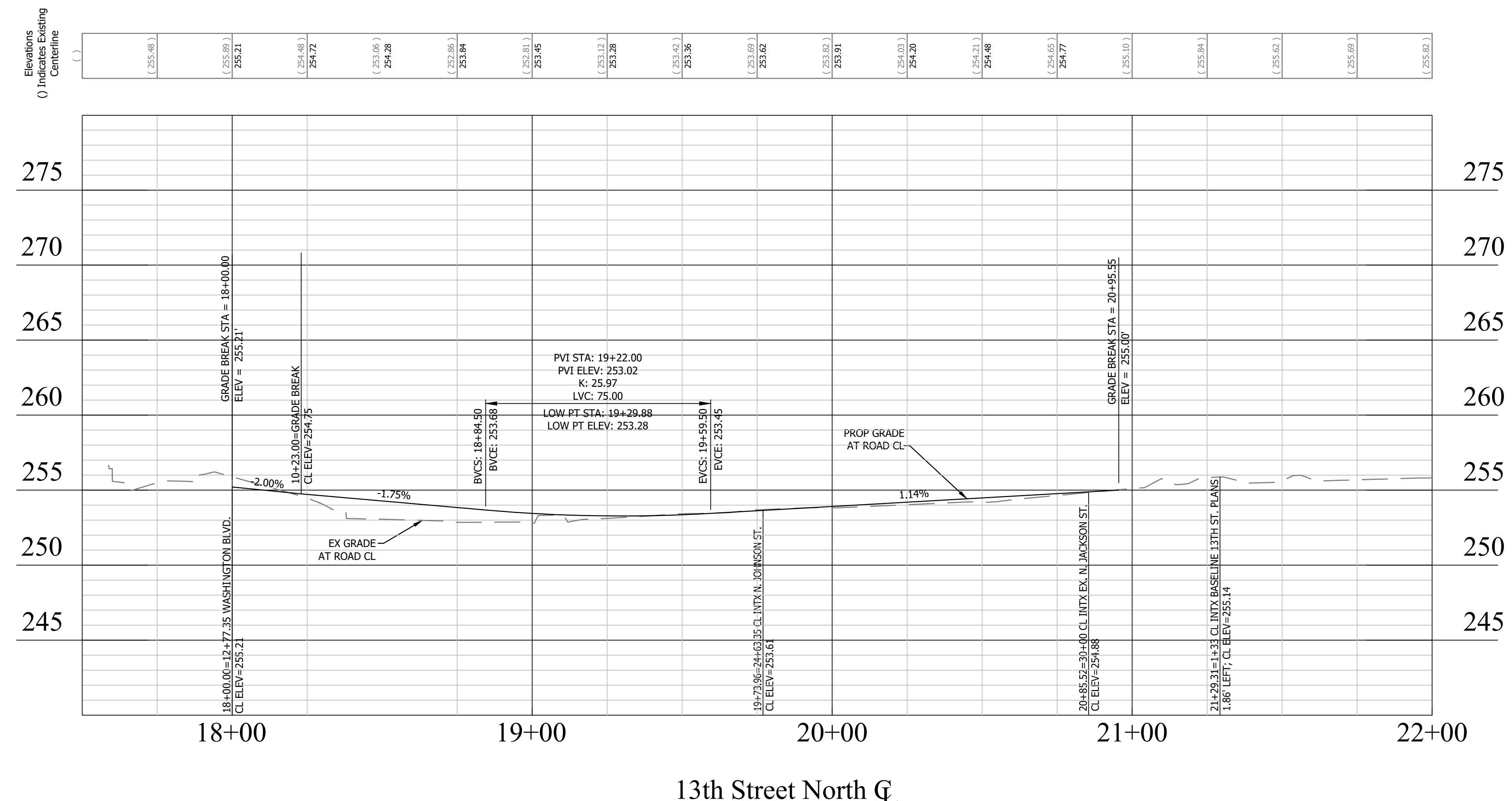
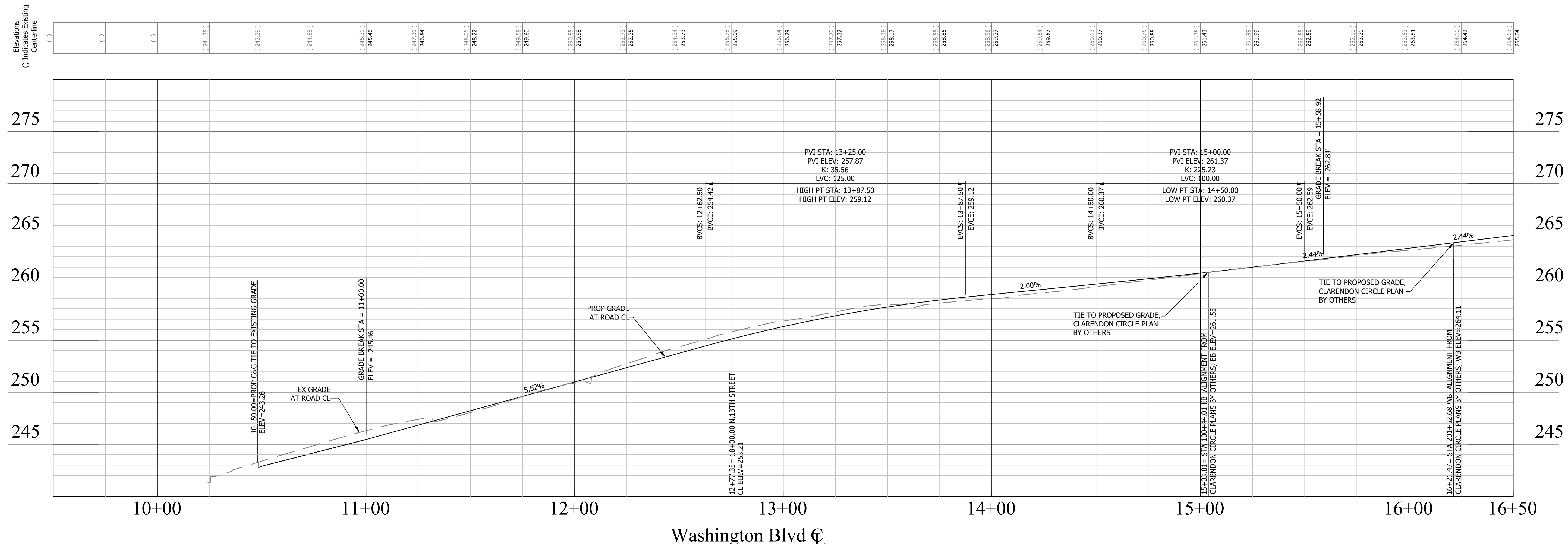


Sheet
9H OF 38



APPROVALS	DATE
<i>Amy Pflaum</i> QUALITY CONTROL ENGINEER	9/11/2020
<i>Kamal Takab</i> CONSTRUCTION MANAGEMENT SUPERVISOR	8.31.20
<i>[Signature]</i> WATER, SEWER, STREETS BUREAU CHIEF	09.16.2020
<i>Dennis M. Leach</i> TRANSPORTATION DIRECTOR	09/11/20
<i>Gabriela Koch</i> PROJECT MANAGER	August 24, 2020

REVISIONS	DATE

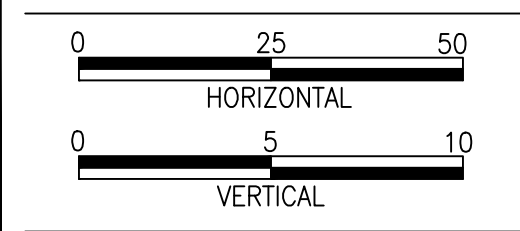


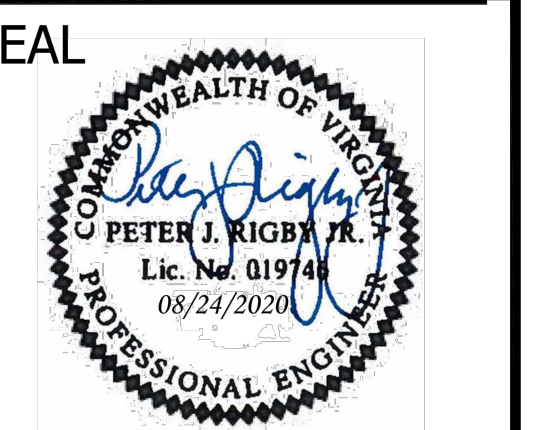
Project Name and Location
WASHINGTON BOULEVARD & 13TH STREET NORTH IMPROVEMENTS
ROAD PROFILES (1 OF 2)
WASHINGTON BLVD. FROM NORTH KIRKWOOD ROAD TO FAIRFAX DRIVE
13TH STREET NORTH FROM WASHINGTON BLVD. TO NORTH JACKSON STREET

Designed: ABB
Drawn: CDL
Checked: MSD
Miss Utility Transmittal #: N/A

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Plotted: September 17, 2020
Plotted by: CL

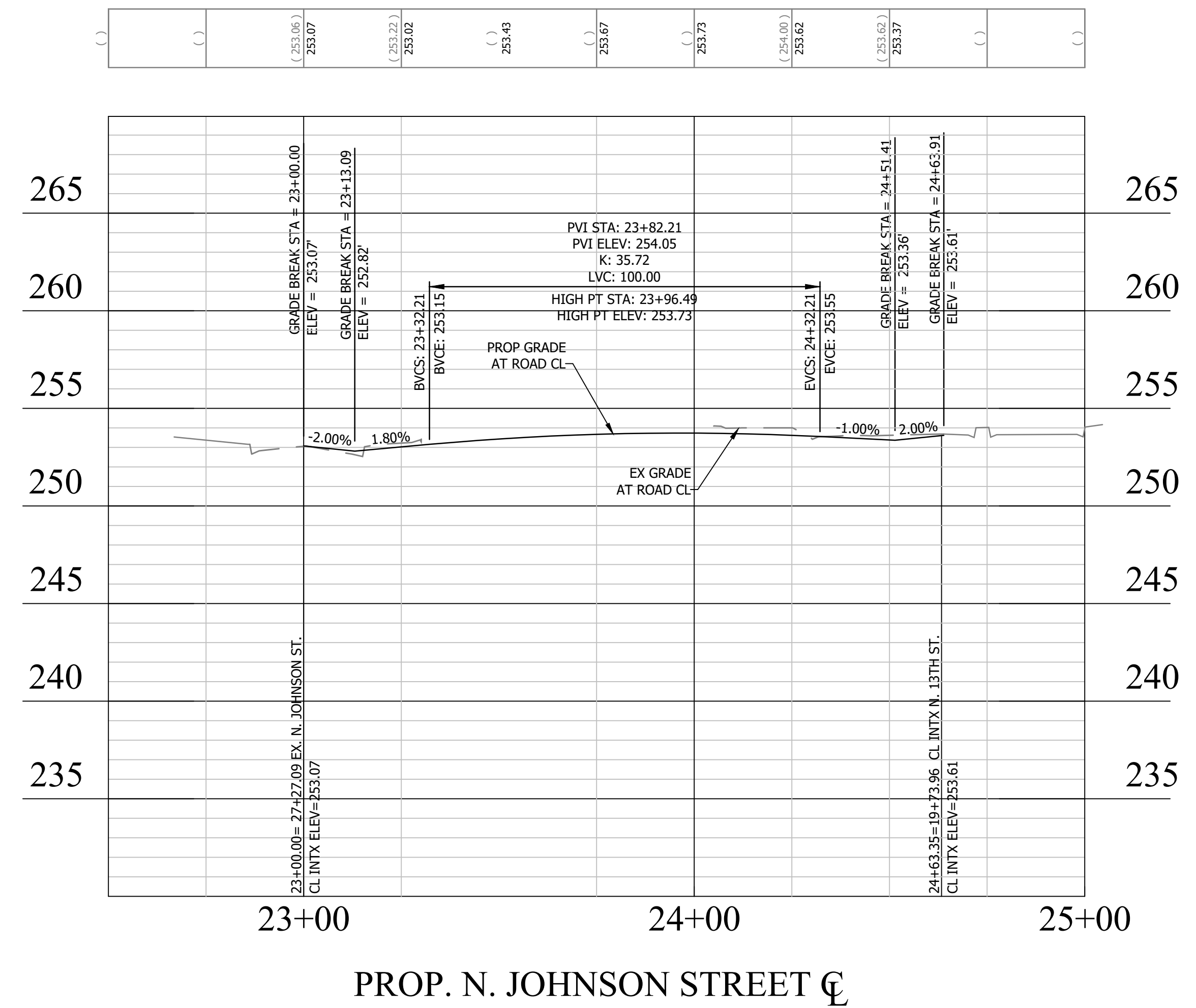
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APPROVALS	DATE
<i>Amy Pflaum</i> QUALITY CONTROL ENGINEER	9/11/2020
<i>Kamal Takab</i> CONSTRUCTION MANAGEMENT SUPERVISOR	8.31.20
<i>[Signature]</i> WATER, SEWER, STREETS BUREAU CHIEF	09.16.2020
<i>Dennis M. Leach</i> TRANSPORTATION DIRECTOR	09/11/20
<i>Gabriela Koch</i> PROJECT MANAGER	August 24, 2020

REVISIONS	DATE

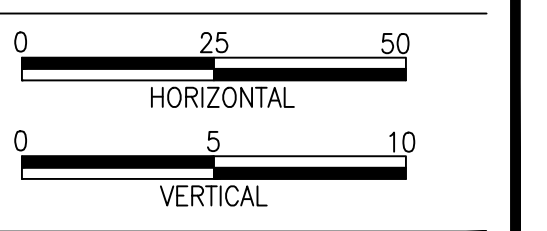


Project Name and Location
WASHINGTON BOULEVARD & 13TH STREET NORTH IMPROVEMENTS
ROAD PROFILES (2 OF 2)
NORTH JOHNSON STREET FROM 13TH STREET NORTH TO 150' WEST

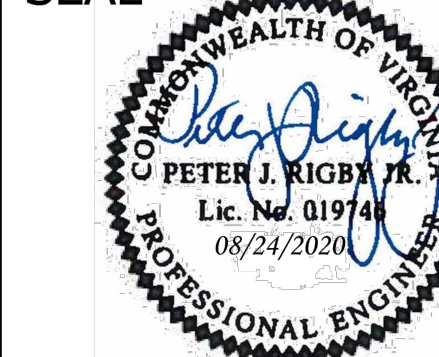
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Plotted: September 17, 2020
Plotted by: CL

Scale: H:1"=25' V:1"=5'



SEAL



APPROVALS DATE

<i>Amy Pflaum</i>	9/11/2020
QUALITY CONTROL ENGINEER	
<i>Kamal Takab</i>	8.31.20
CONSTRUCTION MANAGEMENT SUPERVISOR	
<i>Jeff</i>	09.16.2020
WATER, SEWER, STREETS BUREAU CHIEF	
<i>Dennis M. Leach</i>	09/11/20
TRANSPORTATION DIRECTOR	
<i>Gabriela Koch</i>	August 24, 2020
PROJECT MANAGER	

REVISIONS DATE

REVISIONS	DATE

Project Name and Location

WASHINGTON BOULEVARD & 13TH STREET NORTH IMPROVEMENTS

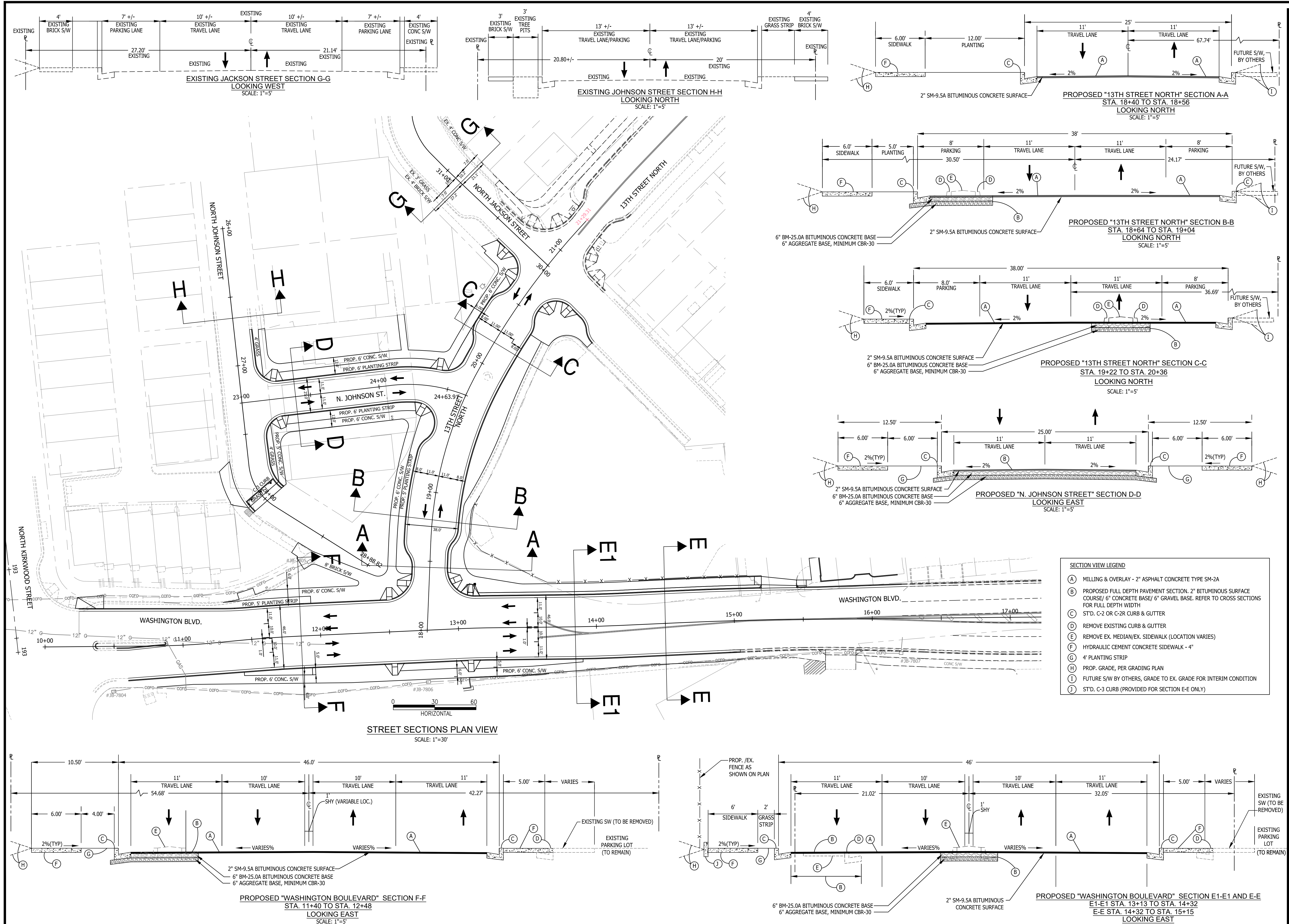
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WASHINGTON BLVD. FROM NORTH
KIRKWOOD ROAD TO FAIRFAX DRIVE
13TH STREET NORTH FROM WASHINGTON
BLVD. TO NORTH JACKSON STREET &
NORTH JOHNSON STREET FROM 13TH
STREET NORTH TO 150' WEST

Designed: ABB
Drawn: CDL
Checked: MSD
Miss Utility Transmittal #: N/A

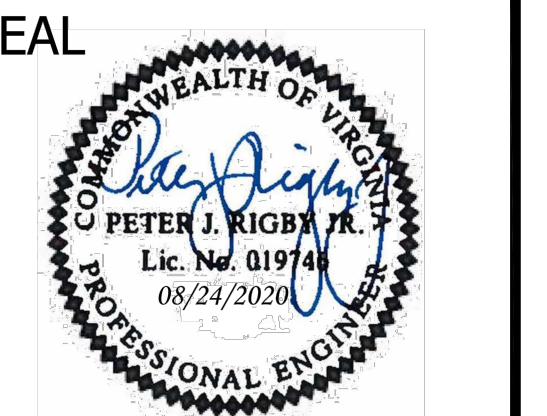
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Plotted: September 17, 2020
Plotted by: CL

Scale: AS NOTED

Sheet
12 OF 38



- SECTION VIEW LEGEND**
- (A) MILLING & OVERLAY - 2" ASPHALT CONCRETE TYPE SM-2A
 - (B) PROPOSED FULL DEPTH PAVEMENT SECTION. 2" BITUMINOUS SURFACE COURSE/ 6" CONCRETE BASE/ 6" GRAVEL BASE. REFER TO CROSS SECTIONS FOR FULL DEPTH WIDTH
 - (C) STD. C-2 OR C-2R CURB & GUTTER
 - (D) REMOVE EXISTING CURB & GUTTER
 - (E) REMOVE EX. MEDIAN/EX. SIDEWALK (LOCATION VARIES)
 - (F) HYDRAULIC CEMENT CONCRETE SIDEWALK - 4"
 - (G) 4' PLANTING STRIP
 - (H) PROP. GRADE, PER GRADING PLAN
 - (I) FUTURE S/W BY OTHERS, GRADE TO EX. GRADE FOR INTERIM CONDITION
 - (J) STD. C-3 CURB (PROVIDED FOR SECTION E-E ONLY)



APPROVALS	DATE
<i>Amy Pflaum</i> QUALITY CONTROL ENGINEER	9/11/2020
<i>Kamal Taktak</i> CONSTRUCTION MANAGEMENT SUPERVISOR	8.31.20
<i>[Signature]</i> WATER, SEWER, STREETS BUREAU CHIEF	09.16.2020
<i>Dennis M. Leach</i> TRANSPORTATION DIRECTOR	09/11/20
<i>Gabriela Koch</i> PROJECT MANAGER	August 24, 2020

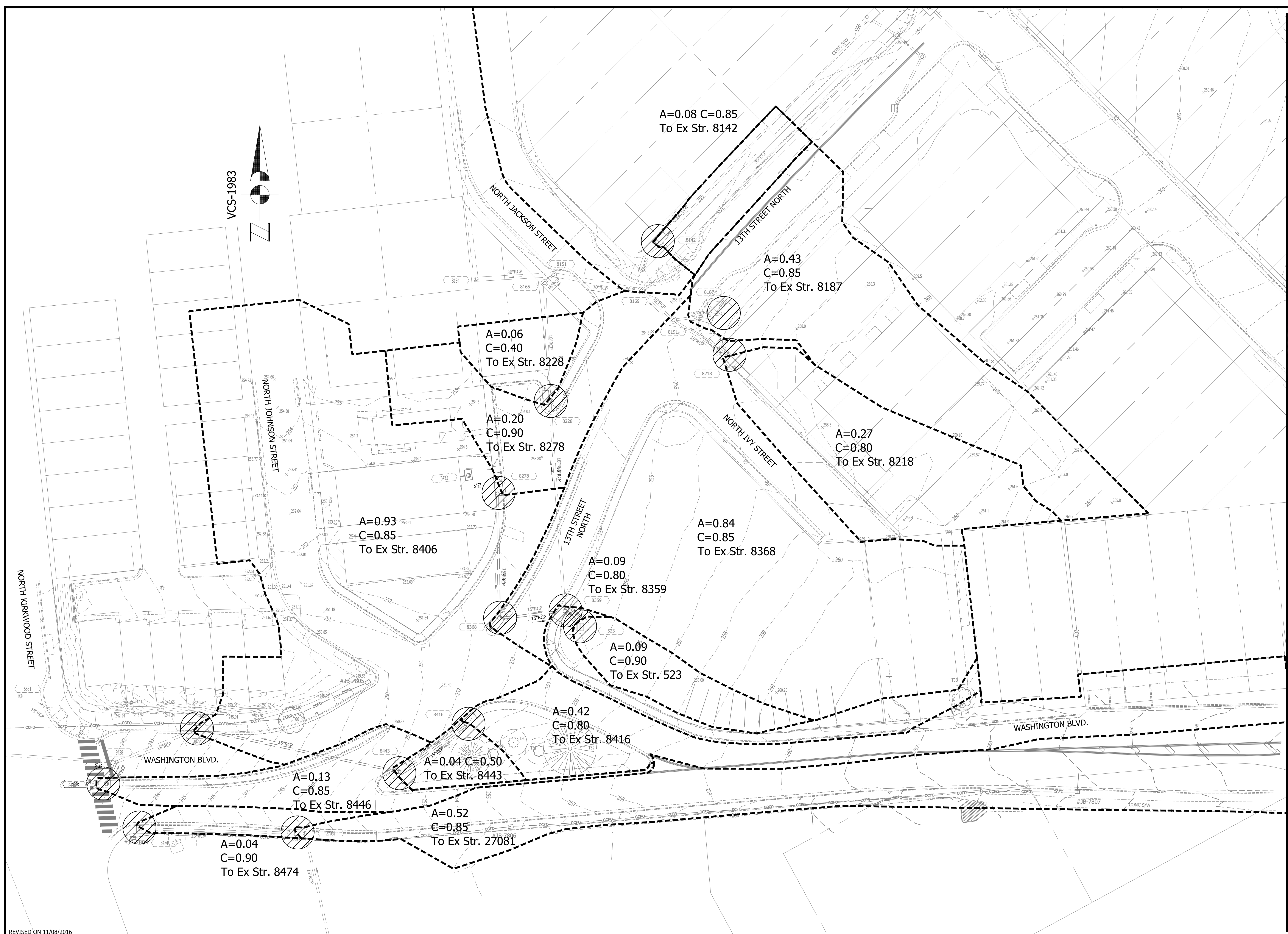
REVISIONS	DATE

Project Name and Location
WASHINGTON BOULEVARD & 13TH STREET NORTH IMPROVEMENTS
EXISTING DRAINAGE DIVIDES
WASHINGTON BLVD. FROM NORTH KIRKWOOD ROAD TO FAIRFAX DRIVE
13TH STREET NORTH FROM WASHINGTON BLVD. TO NORTH JACKSON STREET & NORTH JOHNSON STREET FROM 13TH STREET NORTH TO 150' WEST

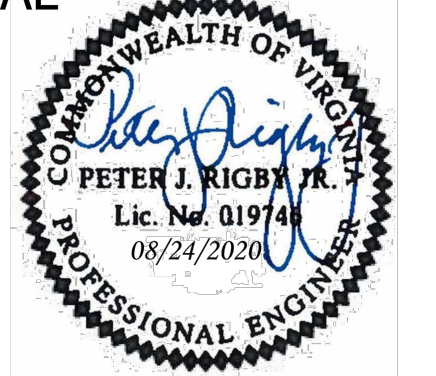
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Plotted by: CL

Scale: 1"=25'
GRAPHIC SCALE
1" = 25'



SEAL



APPROVALS DATE

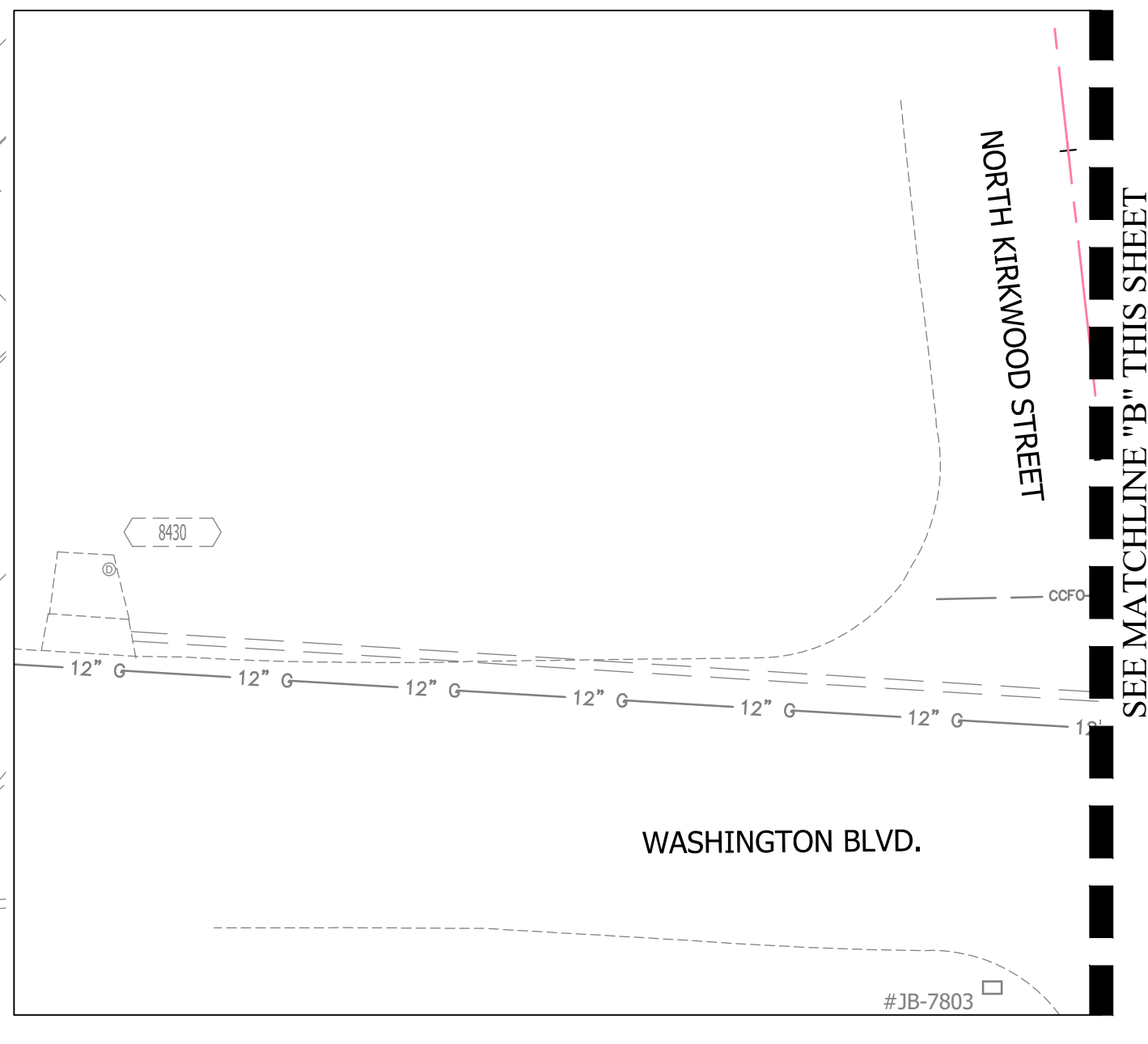
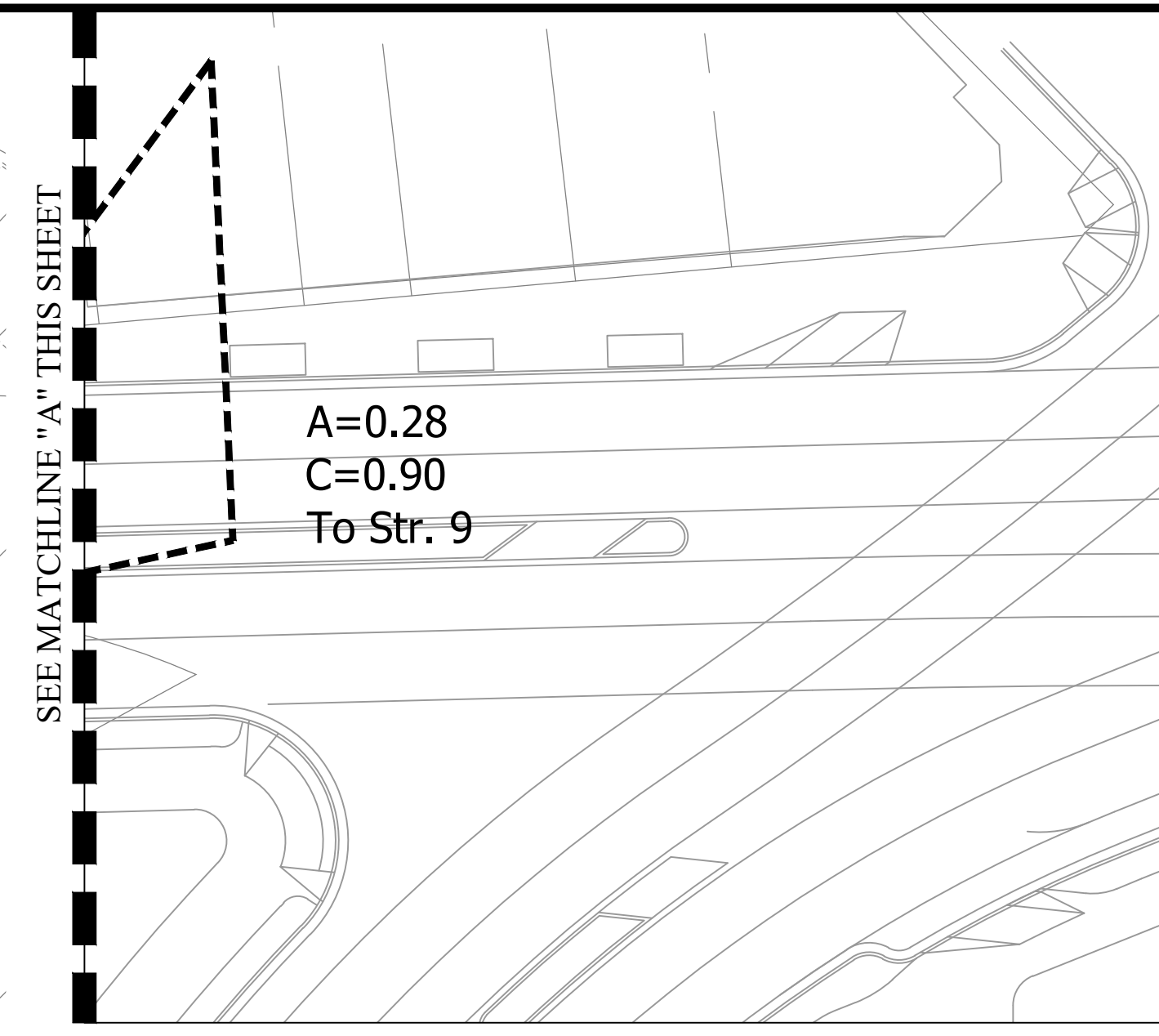
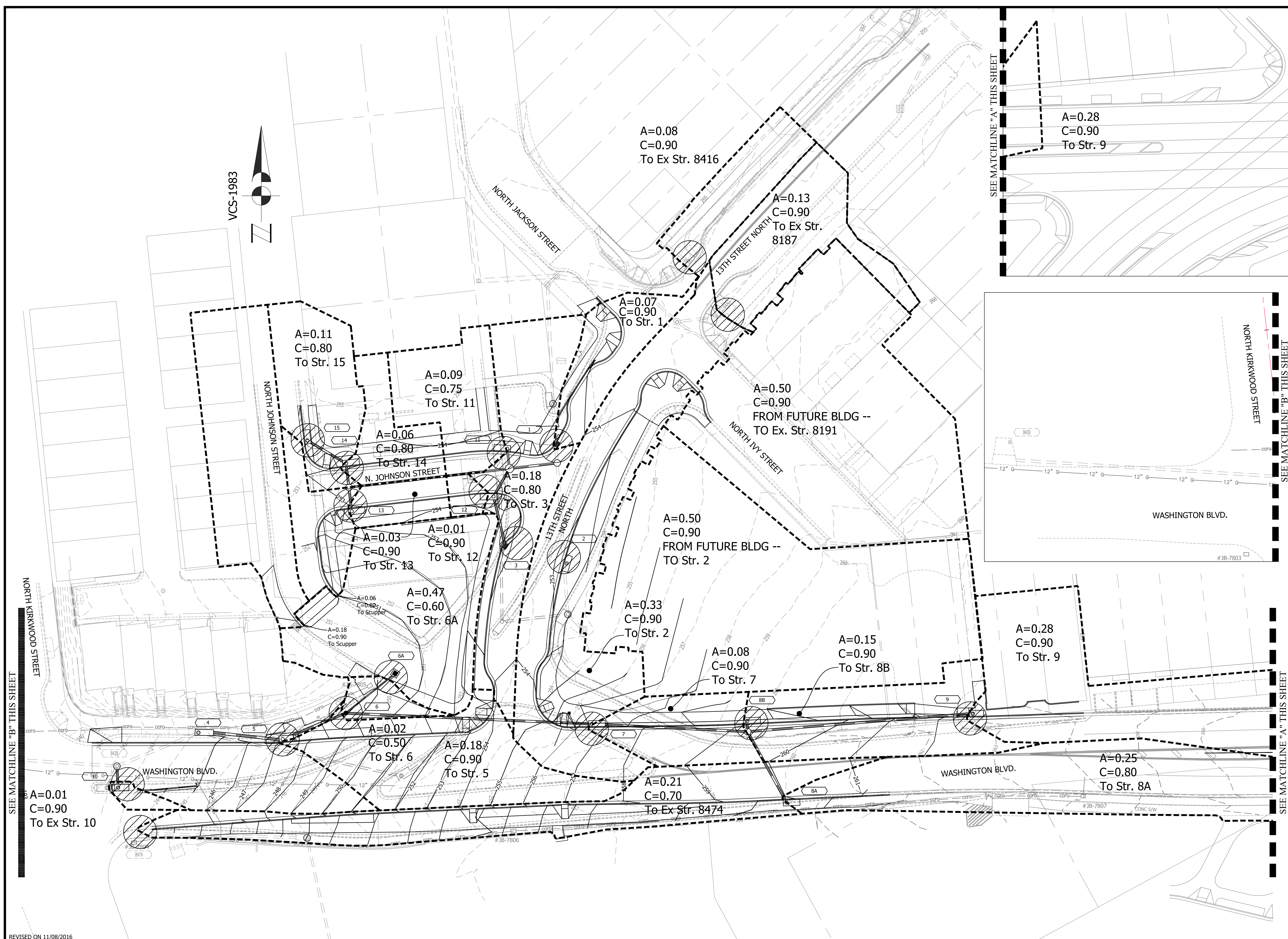
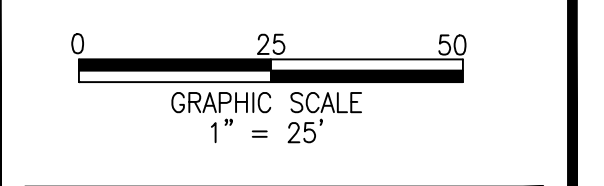
<i>Amy Pflaum</i>	9/11/2020
QUALITY CONTROL ENGINEER	
<i>Kamal Takab</i>	8.31.20
CONSTRUCTION MANAGEMENT SUPERVISOR	
<i>[Signature]</i>	09.16.2020
WATER, SEWER, STREETS BUREAU CHIEF	
<i>Dennis M. Leach</i>	09/11/20
TRANSPORTATION DIRECTOR	
<i>Gabriela Koch</i>	August 24, 2020
PROJECT MANAGER	

REVISIONS DATE

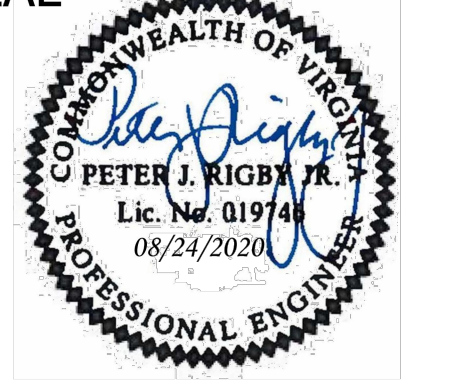
REVISIONS	DATE

Project Name and Location
WASHINGTON BOULEVARD & 13TH STREET NORTH IMPROVEMENTS
PROPOSED DRAINAGE DIVIDES
WASHINGTON BLVD. FROM NORTH KIRKWOOD ROAD TO FAIRFAX DRIVE
13TH STREET NORTH FROM WASHINGTON BLVD. TO NORTH JACKSON STREET & NORTH JOHNSON STREET FROM 13TH STREET NORTH TO 150' WEST

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Miss Utility Transmittal #: N/A
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ARCH/REVISED APPROVED PLANS
Plotted: September 17, 2020
Plotted by: CL
Scale: 1"=25'



SEAL



APPROVALS **DATE**

<i>Amy Pfau</i>	9/11/2020
QUALITY CONTROL ENGINEER	
<i>Kamal Taktak</i>	8.31.20
CONSTRUCTION MANAGEMENT SUPERVISOR	
<i>[Signature]</i>	09.16.2020
WATER, SEWER, STREETS BUREAU CHIEF	
<i>Dennis M. Leach</i>	09/11/20
TRANSPORTATION DIRECTOR	
<i>Gabriela Koch</i>	August 24, 2020
PROJECT MANAGER	

REVISIONS **DATE**

REVISIONS	DATE

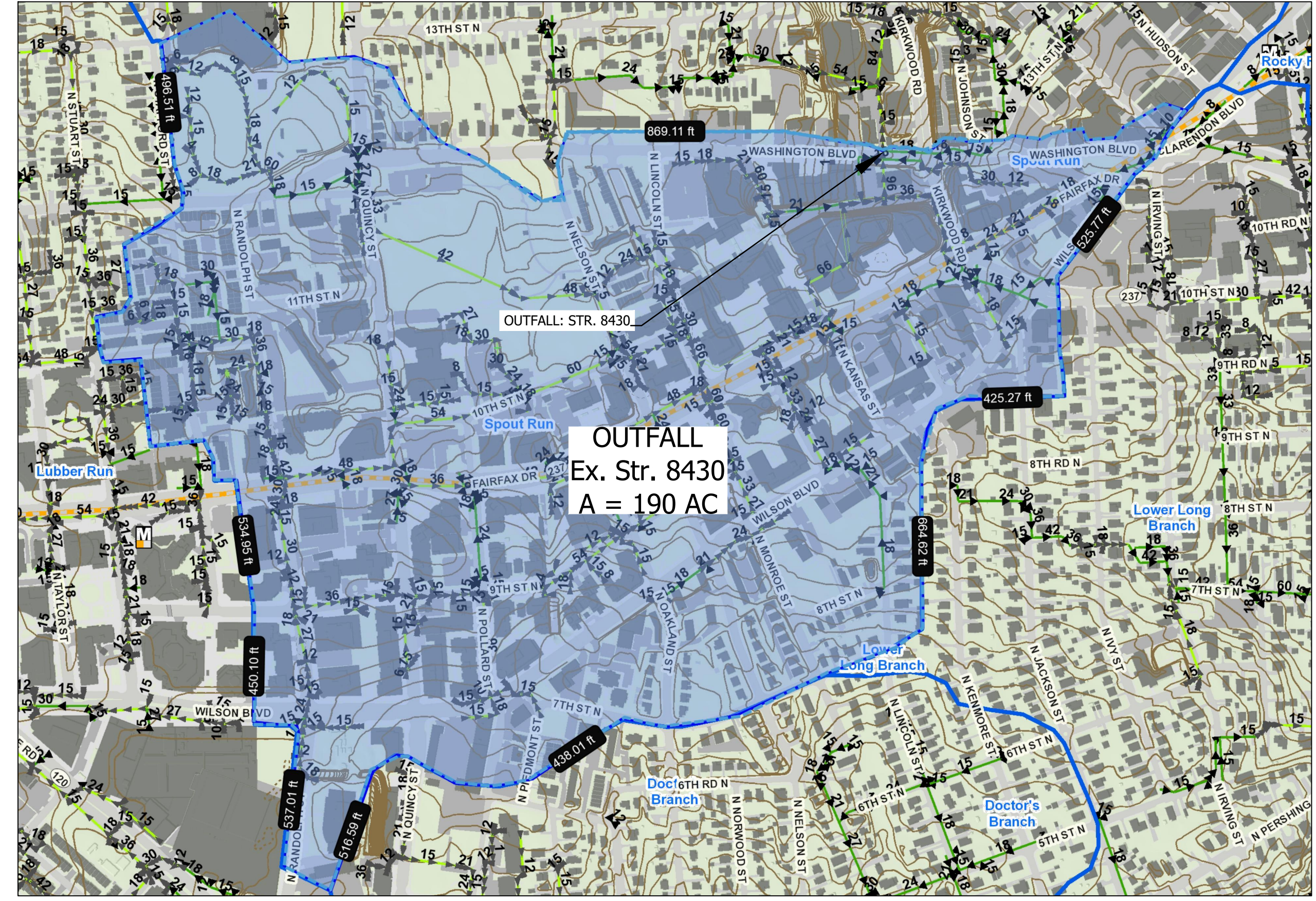
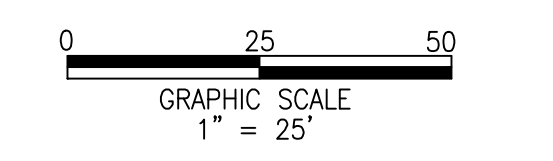
Project Name and Location
**WASHINGTON BOULEVARD
& 13TH STREET NORTH IMPROVEMENTS**

DOWNSTREAM ANALYSIS
WASHINGTON BLVD. FROM NORTH
KIRKWOOD ROAD TO FAIRFAX DRIVE
13TH STREET NORTH FROM WASHINGTON
BLVD. TO NORTH JACKSON STREET &
NORTH JOHNSON STREET FROM 13TH
STREET NORTH TO 150' WEST

Designed: ABB
Drawn: CDL
Checked: MSD
Miss Utility Transmittal #: N/A

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ARCHIVE\REVISED APPROVED PLANS
Plotted: September 17, 2020
Plotted by: CL

Scale: 1"=25'



LIMIT OF ANALYSIS

Contributing drainage area to existing structure 8430 is 100 times
grater than the contributing drainage area of the project.

Project's contributing area = 1.77 AC
Contributing drainage area = 190 AC X 100% = 0.93% < 1% (OK)

STORMWATER MANAGEMENT NARRATIVE

1. THIS PUBLIC IMPROVEMENT PLAN PROPOSES THE RE-DESIGN AND RE-CONSTRUCTION OF THE INTERSECTION AT WASHINGTON BOULEVARD, 13TH STREET NORTH, AND NORTH JOHNSON STREET, ALONG WITH OTHER ROAD IMPROVEMENTS ALONG THE FRONTAGE OF THE PROPOSED CLARENDON WEST DEVELOPMENT. THE REDESIGN OF THIS INTERSECTION WILL ELIMINATE DIRECT ACCESS FROM NORTH JOHNSON STREET TO THE INTERSECTION, AND WILL INSTEAD GIVE ACCESS FROM NORTH JOHNSON STREET TO 13TH STREET JUST NORTH OF THE INTERSECTION. THESE PROPOSED IMPROVEMENTS WILL PROMOTE PUBLIC SAFETY, IMPROVE TRAFFIC CONTROLS, AND PROVIDE EXPANDED STREETScape FOR PEDESTRIAN CONVENIENCE.
2. THIS PROJECT WAS FUNDED PRIOR TO 07/01/2012 AND IS THEREFORE GRANDFATHERED INTO THE OLD STORMWATER MANAGEMENT REGULATIONS IN EFFECT PRIOR TO THE NEW ARLINGTON COUNTY STORMWATER MANAGEMENT ORDINANCE. BECAUSE THIS PROJECT IS FOR PUBLIC ROADS AND UTILITIES, AND IS IN ACCORDANCE WITH THE REGULATIONS PURSUANT TO THE VIRGINIA EROSION AND SEDIMENT CONTROL LAW AND THE VIRGINIA STORMWATER MANAGEMENT ACT, IT IS EXEMPT FROM THE CHESAPEAKE BAY PRESERVATION ORDINANCE, PER SECTION 61-15(A).
3. THE LIMITS OF THE STORMWATER MANAGEMENT APPLICATION AREA APPLICABLE TO THIS PUBLIC IMPROVEMENT PLAN EXCLUDES WORK OUTSIDE OF THE DEDICATED RIGHT OF WAY ON THE CLARENDON WEST PARCEL. THE CIVIL ENGINEERING PLAN FOR THE CLARENDON WEST REDEVELOPMENT SITE WILL ACCOMMODATE THE STORMWATER MANAGEMENT REQUIREMENTS FOR DISTURBANCE WITHIN THE CLARENDON WEST PARCEL. AS SHOWN WITHIN THE LEGENDS ON THIS SHEET, 0.53 ACRES OF MILL AND OVERLAY ARE PROPOSED WITHIN THE LIMITS OF WORK. THIS AREA IS CONSIDERED ROUTINE MAINTENANCE AND IS THEREFORE EXCLUDED FROM THE STORMWATER MANAGEMENT APPLICATION AREA. 1.00 ACRES OF THE 1.154 ACRES OF LAND DISTURBANCE PROPOSED WITH THIS PROJECT ARE WITHIN THE PROPOSED RIGHT OF WAY.
4. THE IMPROVEMENTS SHOWN ON THIS SHEET WITHIN THE STORMWATER MANAGEMENT APPLICATION AREA, ALONG THE FRONTAGE OF THE CLARENDON WEST PARCEL, WILL BE PROPOSED WITH THE CIVIL ENGINEERING PLAN FOR THE CLARENDON WEST REDEVELOPMENT PLAN.
5. AS SHOWN ON THE EXISTING AND PROPOSED CONDITION MAPS ON THIS SHEET, THE PROPOSED IMPROVEMENTS WILL DECREASE THE TOTAL IMPERVIOUS AREA WITHIN THE SWM APPLICATION AREA BY 5,367 SQUARE FEET. AS SUCH, THERE WILL BE NO SIGNIFICANT INCREASE IN PEAK FLOW RATES DUE TO THE PROPOSED IMPROVEMENTS SHOWN ON THIS PLAN. AS SHOWN IN THE DRAINAGE DIVIDES ON SHEET 14, THERE WILL BE LESS THAN AN ACRE OF DISTURBED AREA FOR EACH CATCH BASIN. ADDITIONALLY, THERE ARE NO KNOWN FLOODING OR EROSION PROBLEMS DOWNSTREAM OF THIS PROJECT, NOR ARE ANY ANTICIPATED DUE TO THE PROPOSED IMPROVEMENTS OF THIS PLAN. BECAUSE OF THE REDUCTION IN IMPERVIOUS AREA, STORMWATER MANAGEMENT AND BEST MANAGEMENT PRACTICES WILL NOT BE REQUIRED FOR THIS PROJECT.

ARLINGTON VIRGINIA
 DEPARTMENT OF ENVIRONMENTAL SERVICES
 Division of Transportation & Development
 ACCS Bureau 2100 Clarendon Boulevard, Suite 900, Arlington, VA 22201
 TEL 703-228-3661 FAX 703-228-7548 TTY 703-228-4611 www.arlingtonva.us

Date: 03/08/2016
 To: M. Scott Delgado, Bowman Consulting
 From: Qianqian Li, P.E.
 ESC & SWM Program Administrator
 Arlington County, Department of Environmental Services
 Development Services Bureau
 Subject: Washington Blvd and 13th Street Project SWM exemption

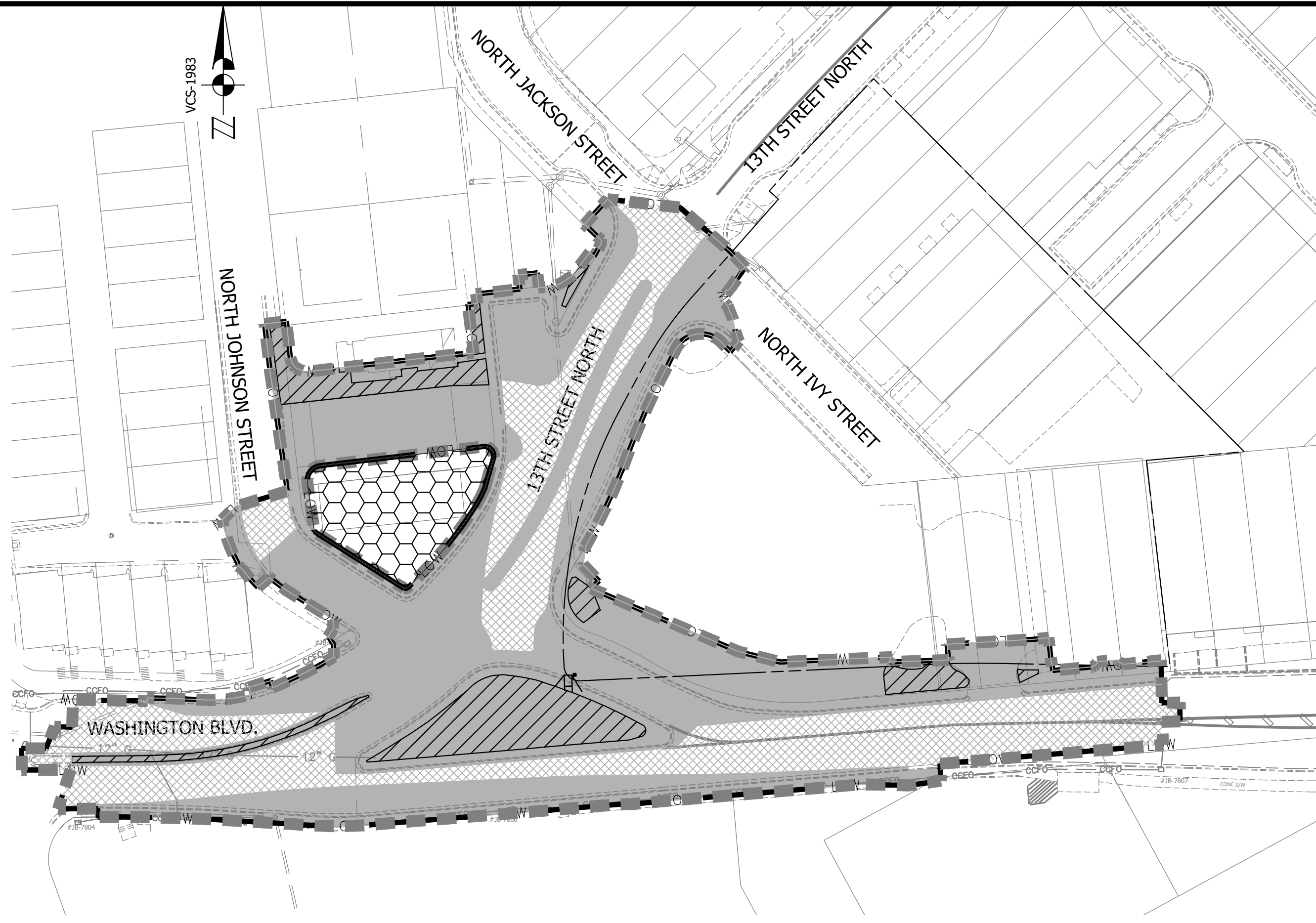
The Washington Blvd. and 13th Street Project was funded before 7/1/2012, therefore not subject to Arlington's current Stormwater Management Ordinance. It is granted as an exemption under the Chesapeake Bay Preservation Ordinance Section § 61-15(a). This exemption is applicable to public linear projects that consist solely of transportation and utility-related infrastructure.

Continual advancement of the design has occurred since 2007 when the project was first identified in the County Arterial Streets Capital Improvements Program. County Transportation Improvement Funds (TCF) were allocated to the project January 2009 for topographic survey, transportation study and preliminary engineering. In June 2010 additional funds were allocated for a major transportation study and 30% preliminary design. Additional funding and active project work by both County staff and consultants has continued to date. The project was divided into two projects in 2014, Clarendon Circle Improvements and Washington Blvd and 13th Street Improvements as needed to coordinate with the Clarendon West Development.

Because the project was funded before July 1st 2012, CB Preservation and detention Ordinance (Chapter 61 and 60), and the regulatory transition flowchart for county project will be used for the project as approved by DEQ.

IMPERVIOUS AND PERVIOUS AREA TABLE		
	PRE-DEVELOPMENT	POST-DEVELOPMENT
LIMITS OF WORK	73,355 SF (1.684 AC)	
LIMITS OF DISTURBANCE (SITE AREA)	50,288 SF (1.154 AC)	50,288 SF (1.154 AC)
IMPERVIOUS AREA	43,137 SF (0.990 AC)	37,770 SF (0.867 AC)
PERVIOUS AREA	7,151 SF (0.164 AC)	12,518 SF (0.287 AC)
DECREASED IMPERVIOUS AREA	5,367 SF (0.123 AC)	

NOTE:
 AREAS NO INCLUDED IN THIS PERMIT ARE NOT PART OF LAND DISTURBANCE AREAS.



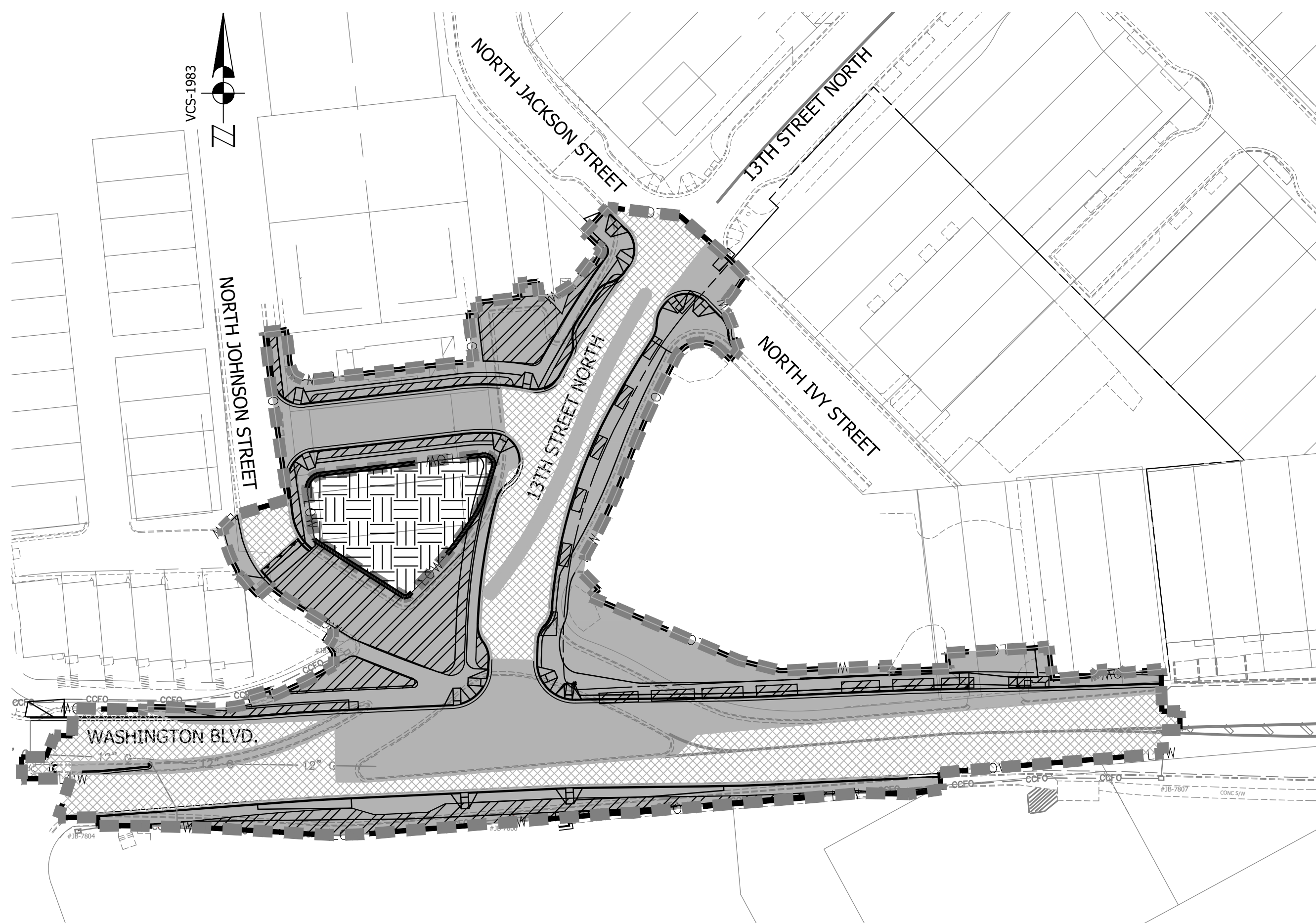
EXISTING CONDITIONS

LEGEND

- DISTURBED AREA (1.154 AC)
- 1.00 AC WITHIN PROP. ROW
- 0.154 AC WITHIN PARCEL
- MILL AND OVERLAY (0.53 AC)
- NOT APPLICABLE TO SWM
- PERVIOUS AREA WITHIN SWM APPLICATION AREA (7,151 SF / 0.164 AC)
- SWM APPLICATION AREA - LESS MILL AND OVERLAY (50,288 SF / 1.154 AC)
- IMPERVIOUS AREA UNDER SEPARATE PERMIT (4,715 SF / 0.11 AC)
- LIMITS OF WORK (73,355 SF / 1.684 AC)
- RIGHT OF WAY BOUNDARY

EXISTING IMPERVIOUS AREA:
 50,288 SF (SWM APPLICATION AREA) - 7,151 SF (PERVIOUS)
 = 43,137 SF = 0.99 AC (IMPERVIOUS)

GRAPHIC SCALE
 1" = 50'



PROPOSED CONDITIONS

LEGEND

- DISTURBED AREA (1.154 AC)
- 1.00 AC WITHIN PROP. ROW
- 0.154 AC WITHIN PARCEL
- MILL AND OVERLAY (0.53 AC)
- NOT APPLICABLE TO SWM
- PERVIOUS AREA WITHIN SWM APPLICATION AREA (12,518 SF / 0.29 AC)
- SWM APPLICATION AREA - LESS MILL AND OVERLAY (50,288 SF / 1.154 AC)
- PERVIOUS AREA UNDER SEPARATE PERMIT (4,715 SF / 0.11 AC)
- LIMITS OF WORK (73,355 SF / 1.684 AC)
- RIGHT OF WAY BOUNDARY

PROPOSED IMPERVIOUS AREA:
 50,288 SF (SWM APPLICATION AREA) - 12,518 SF (PERVIOUS)
 = 37,770 SF = 0.867 AC (IMPERVIOUS)

GRAPHIC SCALE
 1" = 25'

ARLINGTON VIRGINIA

DEPARTMENT OF ENVIRONMENTAL SERVICES
 FACILITIES & ENGINEERING DIVISION
 ENGINEERING BUREAU
 2100 CLARENDON BOULEVARD, SUITE 813
 ARLINGTON, VA 22201
 PHONE: 703.228.3629
 FAX: 703.228.3606

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SEAL
 COMMONWEALTH OF VIRGINIA
 PETER J. RIGBY, JR.
 Lic. No. 01974
 08/24/2020
 PROFESSIONAL ENGINEER

APPROVALS

NAME	DATE
Amy Pfauw	9/11/2020
QUALITY CONTROL ENGINEER	
Kamal Takah	8.31.20
CONSTRUCTION MANAGEMENT SUPERVISOR	
[Signature]	09.16.2020
WATER, SEWER, STREETS BUREAU CHIEF	
Dennis M. Leach	09/11/20
TRANSPORTATION DIRECTOR	
Gabriela Koch	August 24, 2020
PROJECT MANAGER	

REVISIONS

NO.	DATE

Project Name and Location
WASHINGTON BOULEVARD & 13TH STREET NORTH IMPROVEMENTS

IMPERVIOUS AREA ANALYSIS
 WASHINGTON BLVD. FROM NORTH KIRKWOOD ROAD TO FAIRFAX DRIVE
 13TH STREET NORTH FROM WASHINGTON BLVD. TO NORTH JACKSON STREET & NORTH JOHNSON STREET FROM 13TH STREET NORTH TO 150' WEST

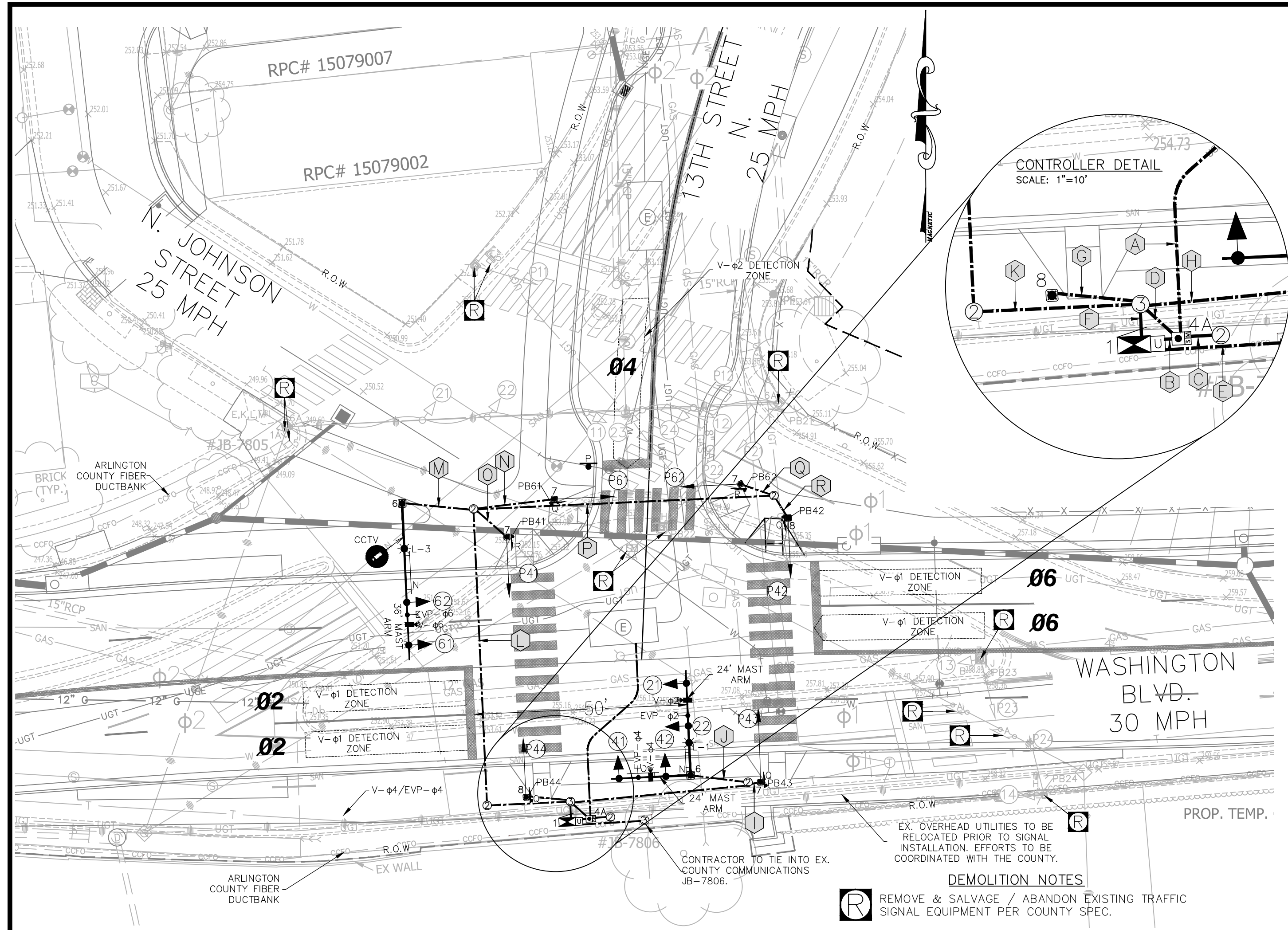
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 Plotted: September 17, 2020
 Plotted by: CL

Scale: 1"=25'

GRAPHIC SCALE
 1" = 25'

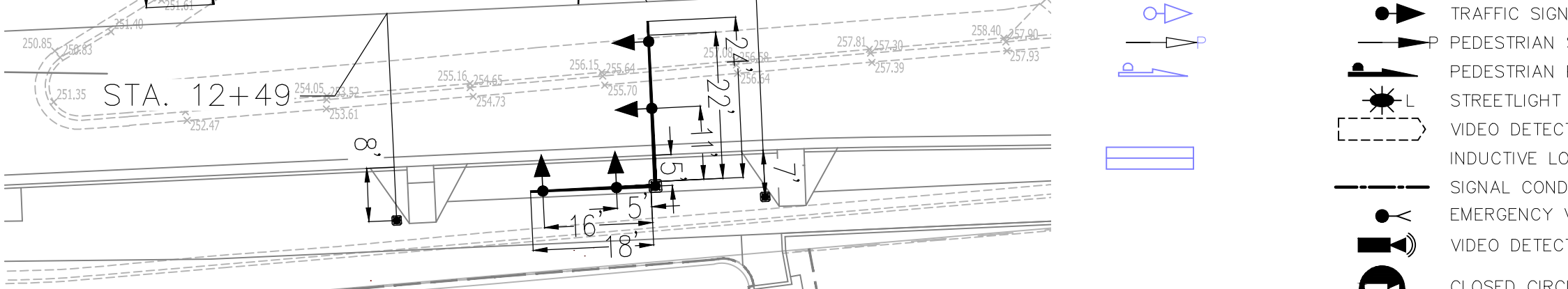
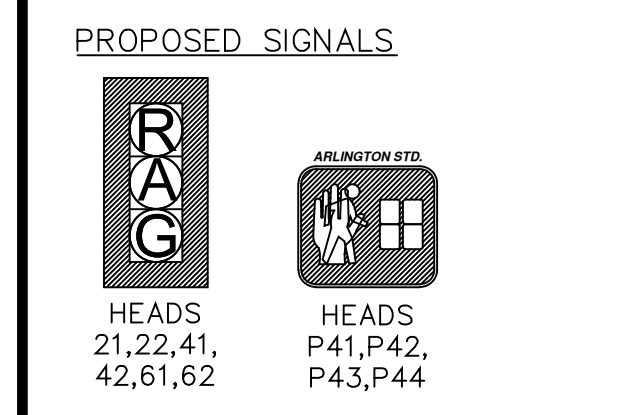
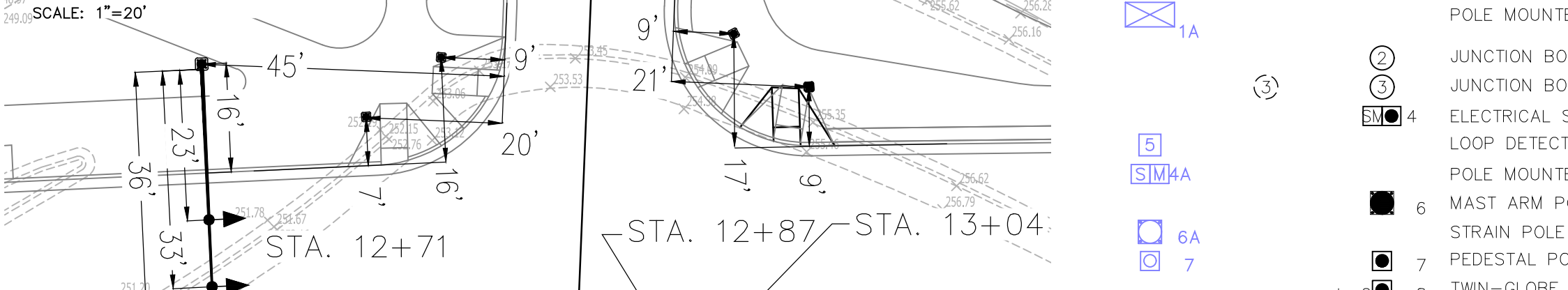
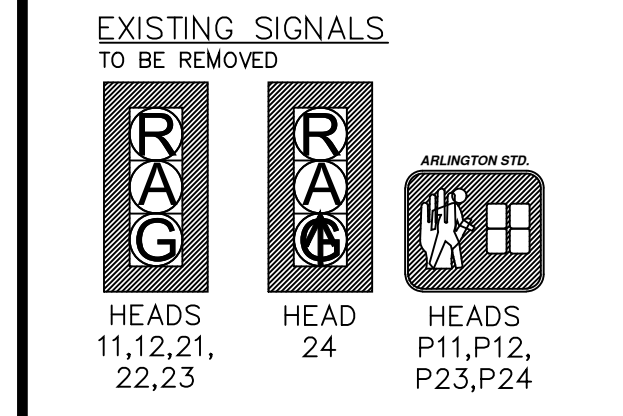
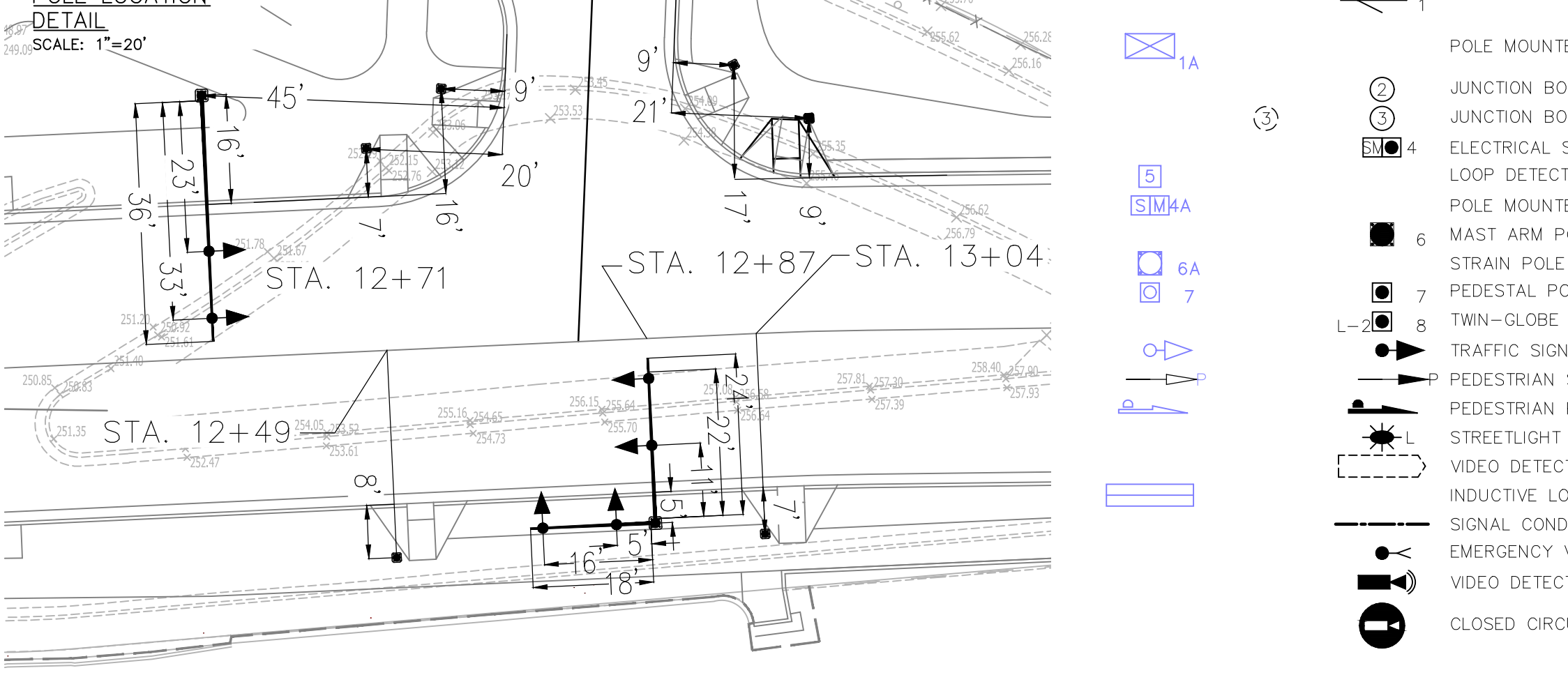
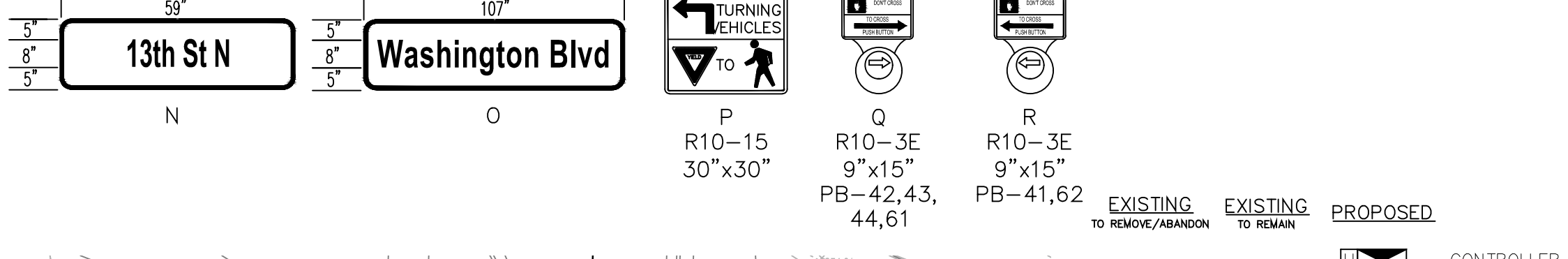
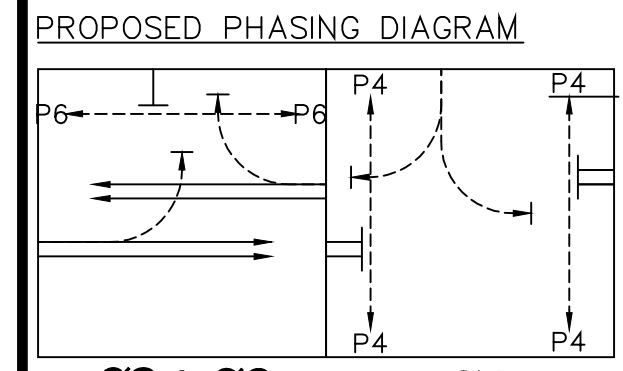
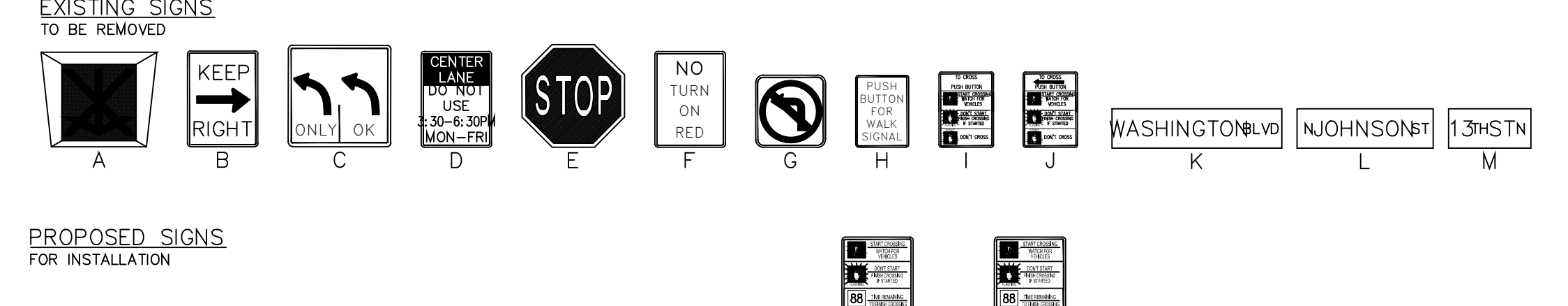
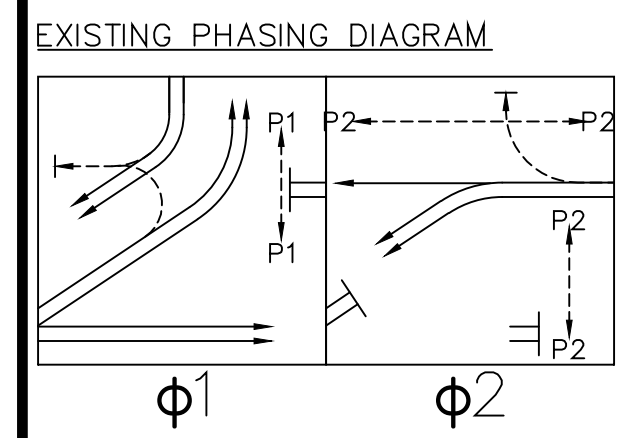
Sheet **15 OF 38**



CONDUIT & CABLE	
A	24" PVC CONDUIT STUB-OUT FOR ELECTRICAL SERVICE
B	1/4" PVC CONDUIT - #8 ELECTRICAL SERVICE CABLE
C	1/4" PVC CONDUIT - #8 AWG (EGC) FOR SYSTEM GROUNDING
D	1/2" PVC CONDUIT - #8 AWG (EGC) FOR SYSTEM GROUNDING
E	24" HDPE CONDUITS - #8 AWG (EGC) FOR SYSTEM GROUNDING
F	1/2" PVC CONDUITS - #8 AWG (EGC) FOR SYSTEM GROUNDING
G	24" PVC CONDUIT - #8 AWG (EGC) FOR SYSTEM GROUNDING
H	24" PVC CONDUIT - #8 AWG (EGC) FOR SYSTEM GROUNDING
I	24" PVC CONDUIT - #8 AWG (EGC) FOR SYSTEM GROUNDING
J	24" PVC CONDUIT - #8 AWG (EGC) FOR SYSTEM GROUNDING
K	24" PVC CONDUIT - #8 AWG (EGC) FOR SYSTEM GROUNDING
L	24" PVC CONDUIT - #8 AWG (EGC) FOR SYSTEM GROUNDING
M	24" PVC CONDUIT - #8 AWG (EGC) FOR SYSTEM GROUNDING
N	24" PVC CONDUIT - #8 AWG (EGC) FOR SYSTEM GROUNDING
O	24" PVC CONDUIT - #8 AWG (EGC) FOR SYSTEM GROUNDING
P	24" PVC CONDUIT - #8 AWG (EGC) FOR SYSTEM GROUNDING
Q	24" PVC CONDUIT - #8 AWG (EGC) FOR SYSTEM GROUNDING
R	24" PVC CONDUIT - #8 AWG (EGC) FOR SYSTEM GROUNDING

Signal Notes

- A. POLES AND FOUNDATIONS**
- MAST ARM LENGTH IS TO BE AS SHOWN ON PLAN AND ALL MAST ARMS ARE TO BE FIELD DRILLED ONLY.
 - MAST ARM POLES SHALL BE DESIGNED TO THE PROPER HEIGHT TO ACCOMMODATE A STREET LIGHT LUMINAIRE AND INSTALLED IN ACCORDANCE WITH ARLINGTON COUNTY TRAFFIC SIGNAL & STREETLIGHT SPECIFICATIONS.
 - MAST ARM POLE FOUNDATIONS SHALL BE INSTALLED IN ACCORDANCE WITH ARLINGTON COUNTY STANDARDS AND SPECIFICATIONS. ALL POLES SHALL HAVE A 6-BOLT PATTERN.
 - AT THE COUNTY'S REQUEST, THE CONTRACTOR SHALL DIG TEST PITS TO VERIFY THAT SIGNAL POLE FOUNDATIONS WILL NOT CONFLICT WITH UNDERGROUND UTILITIES AND THAT FOUNDATIONS WILL FIT WITHIN THE EXISTING RIGHT-OF-WAY.
 - SIGNAL POLES AND MAST ARMS SHALL BE NON-ORNAMENTAL. COBRA LIGHTING SHALL BE LED.
 - COBRA LIGHTING SHALL BE LED TYPE RFL-145W6LED4K-T-R2M-UNIV-DMG-PH8-RCDF-[USA-003]-BK. DECORATIVE POST-TOP LIGHTING SHALL BE HADCO DECORATIVE POST-TOP LUMINAIRE WITH RELUME LED KIT (UAZ XRE LED 57.69W).
- B. CONTROLLER AND FOUNDATION**
- NEW CONTROLLER CABINETS SHALL BE TS2, P TYPE WITH BATTERY BACKUP PER ARLINGTON COUNTY REQUIREMENTS.
 - CONTROLLER SHALL BE INTELLIGENT X-3 AND SHALL BE INSTALLED AND SET AS FOLLOWS:
 - TO REST IN PHASE 2 & 6 GREEN INTERVAL
 - TO START/RESTART IN PHASE 2 & 6 YELLOW CHANGE INTERVAL
 - THE CONTROLLER CABINET AND FOUNDATION SHALL BE INSTALLED IN ACCORDANCE WITH ARLINGTON COUNTY TRAFFIC SIGNAL & STREETLIGHT SPECIFICATIONS 66-01, 66-02, AND 70-01.
 - THE COUNTY WILL PROVIDE SIGNAL TIMINGS TO THE CONTRACTOR FOR THE CONTROLLER WHEN THE INTERSECTION IS TOTALLY PREPARED FOR OPERATION. THE CONTRACTOR SHALL NOTIFY THE COUNTY IN WRITING 10 DAYS IN ADVANCE OF REQUIRING FINAL TIMINGS.
- C. TRAFFIC SIGNAL HEADS**
- ALL NEW VEHICULAR SIGNAL SECTIONS SHALL BE 12 INCHES IN DIAMETER CAST ALUMINUM WITH LED DISPLAYS.
 - PEDESTRIAN SIGNAL HEAD SECTIONS SHALL BE CAST ALUMINUM WITH LED DISPLAYS (COUNTDOWN).
 - ALL SIGNAL HEADS SHALL BE YELLOW IN COLOR.
- A. DETECTORS**
- ALL NEW PEDESTRIAN PUSH BUTTON STATIONS SHALL CONFORM TO ARLINGTON COUNTY'S SPECIFICATIONS FOR ACCESSIBLE SIGNAL DESIGN AND SHALL USE POLARA NAVIGATOR VIBRO-TACTILE/AUDIO PUSH BUTTON ASSEMBLIES UNLESS OTHERWISE SPECIFIED.
 - NEW OVERHEAD VIDEO DETECTION SHALL BE FLIR CAMERAS AND SHALL BE INSTALLED IN ACCORDANCE WITH COUNTY REQUIREMENTS.
 - EMERGENCY VEHICLE PRE-EMPTION (EVP) EQUIPMENT (GTT MODEL M711 OR M721), OR APPROVED SUBSTITUTE, SHALL BE INSTALLED COMPLETE WITH DISCRIMINATOR CARDS, WIRING, ETC. IN ACCORDANCE WITH ARLINGTON COUNTY STANDARDS. EVP TO BE MOUNTED ON VEHICLE HEAD MOUNTING BRACKET OR AS APPROVED BY THE ENGINEER IN THE FIELD.
- B. CONDUIT, CONDUCTORS, AND ELECTRICAL**
- ALL JUNCTION BOXES SHALL HAVE THE WORDS "ARLINGTON COUNTY TRANSPORTATION" CAST IN THE LID. ALL JUNCTION BOXES SHALL BE INSTALLED PER STANDARDS 61-01, 61-02, 61-03, AND 61-04.
 - METER PEDESTAL SHALL BE INSTALLED PER COUNTY STANDARDS. UNDERGROUND SERVICE SHALL BE OBTAINED FROM THE NEAREST UTILITY POLE OR SERVICE POINT. CONTRACTOR IS RESPONSIBLE FOR OBTAINING APPROVAL AND COORDINATING WITH POWER SERVICE COMPANY FOR CONNECTION.
 - CONDUIT SYSTEM SHALL BE ADDED TO CONNECT EXISTING COMMUNICATION CABLE PLANT TO THE NEW CONTROLLER CABINET LOCATION AS DIRECTED BY THE COUNTY ENGINEER.
 - ALL CONDUIT ENTERING INTO JUNCTION BOXES SHALL NOT EXTEND OVER 3" MAXIMUM NOR 2" MINIMUM INSIDE THE JUNCTION BOXES, AND SHALL BE FITTED WITH BELL ENDS OR BUSHING.
 - ALL JUNCTION BOXES SHALL HAVE A GROUND ROD INSTALLED. ALL JUNCTION BOXES SHALL BE PROPERLY CONNECTED TO THE INTERSECTION GROUNDING SYSTEM. METAL LIDS SHALL BE BONDED TO THE GROUNDING SYSTEM.
 - CONTRACTOR IS TO VERIFY DEPTHS OF UTILITIES AT PROPOSED CONDUIT CROSSINGS PRIOR TO EXCAVATING CONDUIT TRENCHES OR BORING.
 - ALL CONDUITS BENEATH ROADWAYS SHALL BE DIRECTIONAL DRILLED UNLESS DIRECTED OTHERWISE BY THE COUNTY CONSTRUCTION MANAGER. WHERE DIRECTED ON THE PLANS OR BY THE CONSTRUCTION MANAGER, THE CONTRACTOR SHALL INSTALL SPARE CONDUITS WITH PULL TAPE AND TRACER WIRE FOR ROAD CROSSINGS.
 - ALL EXISTING CONDUIT AND CABLES ARE BASED ON RECORD DRAWINGS OR WERE ESTIMATED. CONTRACTOR SHALL VERIFY CONDUIT FILL CAPACITY IN EXISTING CONDUITS PRIOR TO BEGINNING CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY ARLINGTON COUNTY IF CONDUIT CAPACITY IS NOT AVAILABLE IN EXISTING CONDUIT FOR NEW CABLES.
 - NEW CCTV CABLES SHALL BE INSTALLED IN ACCORDANCE WITH ARLINGTON COUNTY REQUIREMENTS. CONTRACTOR SHALL CONFIRM MOUNTING LOCATION OF CCTV CAMERA WITH COUNTY PRIOR TO INSTALLATION.
 - CONTRACTOR TO VERIFY THE CONDUIT AND % FILL. IF THERE IS NOT ENOUGH CAPACITY IN CONDUIT, THEN THE CONTRACTOR SHALL INSTALL NEW CONDUIT.
 - ALL PROPOSED CONDUIT SHALL HAVE #6 AWG (EGC) & TRACER WIRE FOR GROUNDING SYSTEM.
 - REMOVE ALL EXISTING UNUSED RISERS, JUNCTION BOXES, AND CABLES.
- F. SIGNS**
- ALL MAST ARM SIGNS SHALL BE MOUNTED IN ACCORDANCE WITH ARLINGTON COUNTY STANDARDS. SIGNS SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR UNLESS DIRECTED OTHERWISE.
 - STREET NAME SIGNS SHALL HAVE A WHITE LEGEND ON GREEN BACKGROUND. CONTRACTOR SHALL SUBMIT SIGN DETAILS TO COUNTY TO REVIEW. THE DIMENSIONS PROVIDED ON PLANS ARE ESTIMATED.
- G. DEMOLITION/SALVAGE**
- ALL EXISTING SIGNAL EQUIPMENT IS TO BE REMOVED & RETURNED TO ARLINGTON COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES LOCATED AT 4300 29TH ST S., ARLINGTON, VA 22206.
 - ALL EXISTING SIGNAL POLE FOUNDATIONS SHALL BE DEMOLISHED IN ACCORDANCE WITH ARLINGTON COUNTY SPECIFICATIONS.
- H. COMMUNICATIONS**
- EXISTING COUNTY FIBER JUNCTION BOXES AND CONDUITS CONTAIN LIVE FIBER OPTIC CABLES. THE CONTRACTOR SHALL NOT CUT OR DAMAGE THE COUNTY'S EXISTING FIBER CABLES.
 - ALL FIBER OPTIC CABLE INSTALLATION, REMOVAL, SPLICING, AND TESTING SHALL BE PERFORMED BY THE COUNTY AT THE CONTRACTOR'S EXPENSE. CONTRACTOR MAY CONTRACT DIRECTLY WITH THE COUNTY'S FIBER CONTRACTORS. UPON REQUEST 703-228-7726, THE COUNTY WILL PROVIDE THE CONTACT INFORMATION FOR CURRENT QUALIFIED COUNTY FIBER CONTRACTORS.
 - CONTACT ARLINGTON COUNTY DTS FOR FIBER OPTIC CABLE REMOVAL OR INSTALLATION AT LEAST 10 BUSINESS DAYS IN ADVANCE.
 - CONTRACTOR SHALL FURNISH FIBER PATCH PANEL FOR INSTALLATION BY THE COUNTY. FIBER PIGTAIL SHALL BE APPROPRIATE LENGTH TO ALLOW FOR 50 FEET OF SLACK IN EACH INTERMEDIATE JUNCTION BOX. CONTRACTOR SHALL SUBMIT A SHOP DRAWING OF THE PATCH PANEL (INDICATING THE TAIL LENGTH) FOR COUNTY REVIEW PRIOR TO ORDERING.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF PROPOSED JUNCTION BOXES AND CONDUITS INCLUDING ALL APPURTENANCES SUCH AS GROUND RODS, TRACER WIRE, PULL TAPE, ETC.
 - ALL NEW CONDUITS SHALL HAVE PULL TAPE INSTALLED BETWEEN JUNCTION BOXES AND TRACER WIRE INSTALLED WITHIN OR BESIDE AT LEAST ONE OF THE CONDUITS. TRACER WIRE SHALL BE CONNECTED TO THE GROUND RODS INSTALLED IN THE ADJACENT JUNCTION BOXES.
 - DO NOT SPLICE TRACER WIRE.



COLOR SEQUENCE CHART					
PHASE	2	4	6	FLASH	
21	G	R	W	A	A
22	G	R	W	A	A
42	G	R	W	A	A
61	G	R	W	A	A
62	G	R	W	A	A
P41	WALK	BLANK	BLANK	BLANK	BLANK
P42	WALK	BLANK	BLANK	BLANK	BLANK
P43	WALK	BLANK	BLANK	BLANK	BLANK
P44	WALK	BLANK	BLANK	BLANK	BLANK
FB1	WALK	BLANK	BLANK	BLANK	BLANK
FB2	WALK	BLANK	BLANK	BLANK	BLANK

NOTE: BLANK SPACES REPRESENT A RED DISPLAY. WALK INDICATION DISPLAYED AFTER PEDESTRIAN CALL IS SERVICED.

PHASE	INITIAL TIMING(S)					
	1	2	3	4	5	6
MOVEMENT	RD	LT	RT	LT	RT	WB TRN
PHASE ON	X	X	X	X	X	X
PHASE OFF	X	X	X	X	X	X

MOVEMENT	PER PHASE		PER PHASE		PER PHASE	
	MIN	MAX	MIN	MAX	MIN	MAX
PHASE 2	5.0	5.0	5.0	5.0	5.0	5.0
PHASE 4	4.0	4.0	4.0	4.0	4.0	4.0
PHASE 6	3.5	3.5	3.5	3.5	3.5	3.5
PHASE P	0.0	0.0	0.0	0.0	0.0	0.0
PHASE FB	0.0	0.0	0.0	0.0	0.0	0.0
PHASE T	0.0	0.0	0.0	0.0	0.0	0.0
PHASE V	0.0	0.0	0.0	0.0	0.0	0.0
PHASE W	0.0	0.0	0.0	0.0	0.0	0.0
PHASE X	0.0	0.0	0.0	0.0	0.0	0.0
PHASE Y	0.0	0.0	0.0	0.0	0.0	0.0
PHASE Z	0.0	0.0	0.0	0.0	0.0	0.0

POLE SHAFT DATA				BASE PLATE				ARM SIZE DATA				FOUNDATION DATA				LUMINAIRE DATA											
Shaft #	For Arm Lgths	Base Dia. (in)	Top Dia. (in)	Lgth (ft)	Wall (in)	Width (in)	Thk (in)	Bolt Circle (in)	Hole Size (in)	Bolt Dia. (in)	Bolt Projection (in)	Arm ID#	Large Dia. (in)	Small Dia. (in)	Wall (in)	Hbriz. Lgth (ft)	Span (ft)	Foundation Design #	Shaft Dia. (ft)	Depth Below Grade (ft)	Approx. Conc. Vol. (cu yd)	Vertical Steel	Closed Hoops	Cobra Head LED Luminaire Model:			
ORSS-18P6	n/a	4.5	4.5	15	n/a	n/a	n/a	n/a	n/a	1	4.5	n/a	n/a	n/a	n/a	n/a	n/a	#1	2.5	5.5	0.8	n/a	n/a	n/a			
NR-540	MAX 40"	12	7.8	30	0.179	21	1.5	16	1.75	1.5	6.25	H06	9	3.96	0.179	36	36	#1	3	10.5	3	7-#8	10-#4	GPLM-180V8LED4K-ES-LE3-120-BL-[COMG-016]-PH-B-USA-WB7 (BKT)			
NR-132	MAX 32"	12	7.8	30	0.179	23	1.5	18	1.8	1.5	6.75	H24	7	3.64	0.179	24	24	#1	3	10.5	3	7-#8	10-#4	GPLM-180V8LED4K-ES-LE3-120-BL-[COMG-016]-PH-B-USA-WB7 (BKT)			

ALL UTILITIES SHOWN ON THIS PLAN ARE BASED ON AVAILABLE RECORDS. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL EXISTING UTILITIES BY CONTACTING UTILITY AGENCIES AND TO AVOID DAMAGING EXISTING UTILITIES DURING EXCAVATION OR THE ERECTION OF POLES. CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL UNDERGROUND OR AERIAL UTILITIES BY CALLING "MISS UTILITY" (1-800-552-7001) 48 HOURS PRIOR TO BEGINNING ANY EXCAVATION OR CONSTRUCTION.

DEPARTMENT OF ENVIRONMENTAL SERVICES

Engineering & Capital Projects Division
Engineering Bureau
2100 Clarendon Boulevard, Suite 813
Arlington, VA 22201
Phone: 703.228.3629
Fax: 703.228.3606

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Scale: 1"=20'

Project Name and Location:
WASHINGTON BOULEVARD
FROM NORTH KIRKWOOD ROAD TO FAIRFAX DRIVE & 13TH STREET NORTH FROM WASHINGTON BLVD. TO NORTH JACKSON STREET.

SIGNAL PLAN 1 OF 2

Designed: ABB
Drawn: CDL
Checked: MSD
Miss Utility Transmittal #: N/A

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Plotted:
Plotted by: Ldelacruz

Scale: 1"=20'

Sheet **16 OF 42**



Approvals	Date
DESIGN TEAM SUPERVISOR	
ENGINEERING BUREAU CHIEF	
WATER, SEWER STREETS BUREAU CHIEF	
TRANSPORTATION DIRECTOR	
Revisions	Date

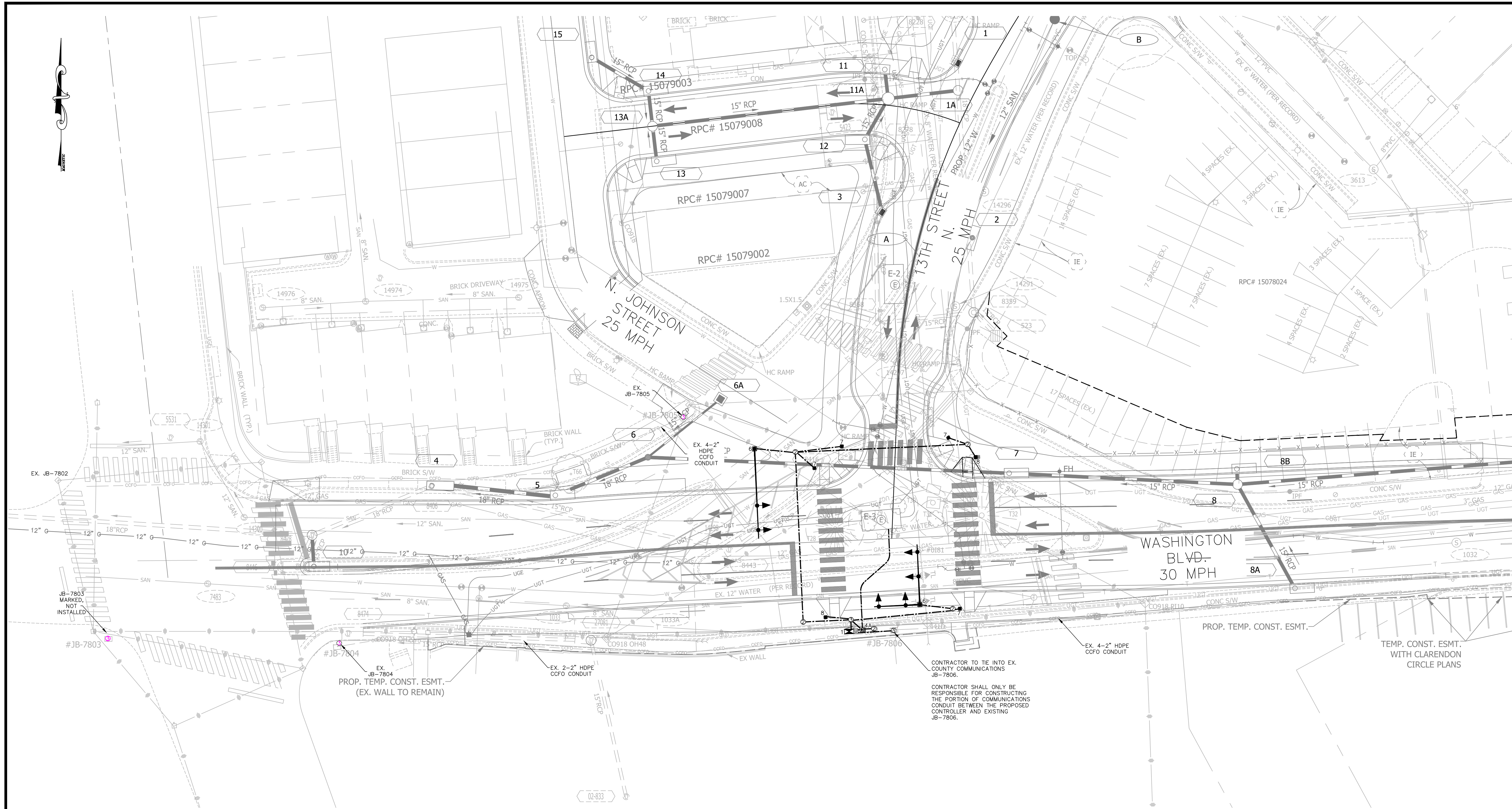
Project Name and Location
WASHINGTON BOULEVARD

SIGNAL PLAN 2 OF 2

FROM NORTH KIRKWOOD ROAD TO FAIRFAX DRIVE & 13TH STREET NORTH FROM WASHINGTON BLVD. TO NORTH JACKSON STREET.

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Drawn: CDL
Checked: MSD
Miss Utility Transmittal #: N/A

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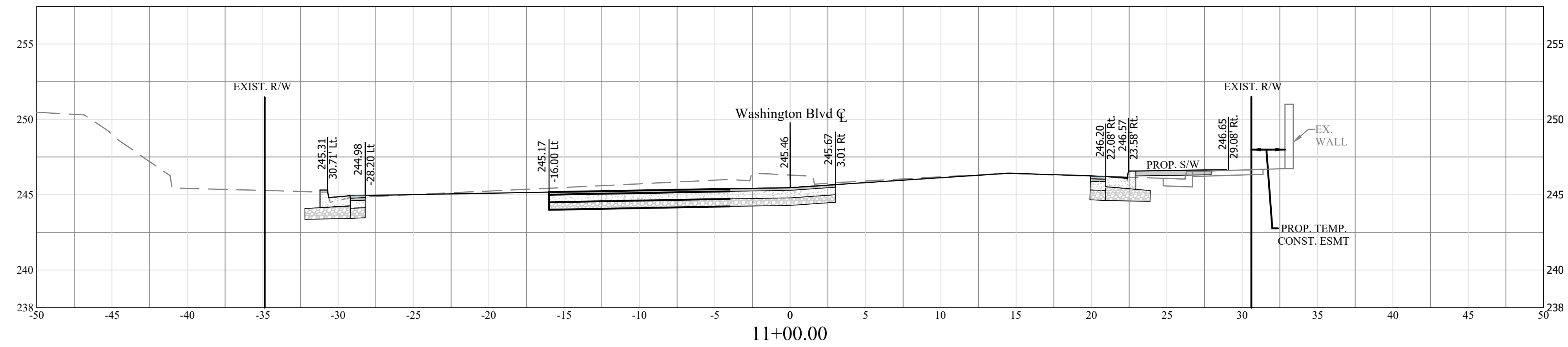
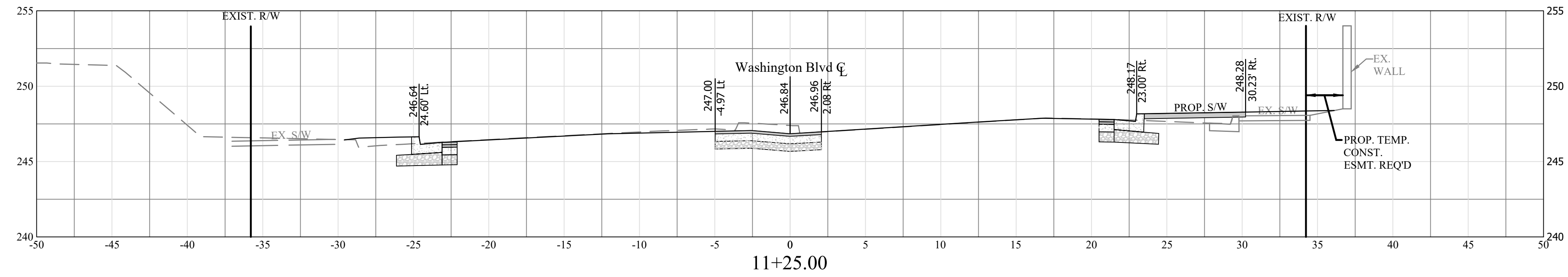
Communication Notes

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 - DO NOT SPUCE TRACER WIRE.

EXISTING TO REMAIN	PROPOSED	DESCRIPTION
	1	CONTROLLER CABINET ASSEMBLY W/ UPS
	2	JUNCTION BOX [2019 COUNTY SPEC. 61-02]
	3	JUNCTION BOX [2019 COUNTY SPEC. 61-04]
	4	ELECTRICAL SERVICE PEDESTAL WITH SWITCH & METER
	6	MAST ARM POLE FOUNDATION
	7	PEDESTAL POLE
	8	TRAFFIC SIGNAL DISPLAY

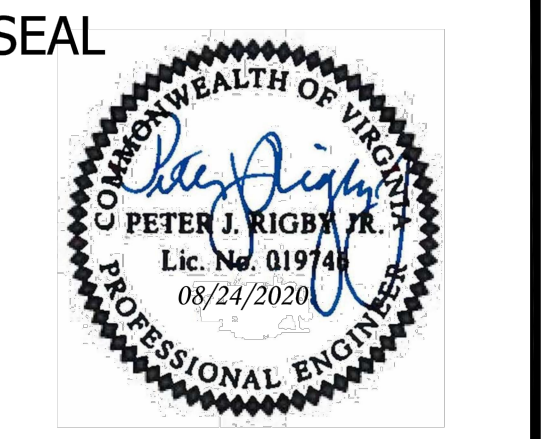
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Washington Blvd Baseline



DEPARTMENT OF ENVIRONMENTAL SERVICES
 FACILITIES & ENGINEERING DIVISION
 ENGINEERING BUREAU
 2100 CLARENDON BOULEVARD, SUITE 813
 ARLINGTON, VA 22201
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APPROVALS	DATE
<i>Amy Pflaum</i>	9/11/2020
QUALITY CONTROL ENGINEER	
<i>Kamal Takab</i>	8.31.20
CONSTRUCTION MANAGEMENT SUPERVISOR	
<i>[Signature]</i>	09.16.2020
WATER, SEWER, STREETS BUREAU CHIEF	
<i>Dennis M. Leach</i>	09/11/20
TRANSPORTATION DIRECTOR	
<i>Gabriela Koch</i>	August 24, 2020
PROJECT MANAGER	

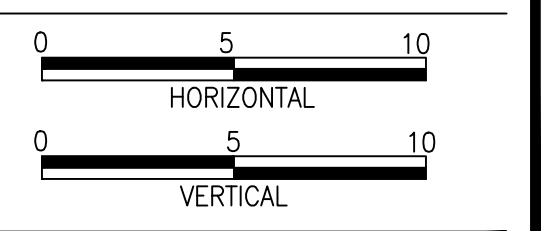
REVISIONS	DATE

Project Name and Location
WASHINGTON BOULEVARD & 13TH STREET NORTH IMPROVEMENTS
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Designed: ABB
 Drawn: CDL
 Checked: MSD
 Miss Utility Transmittal #: N/A

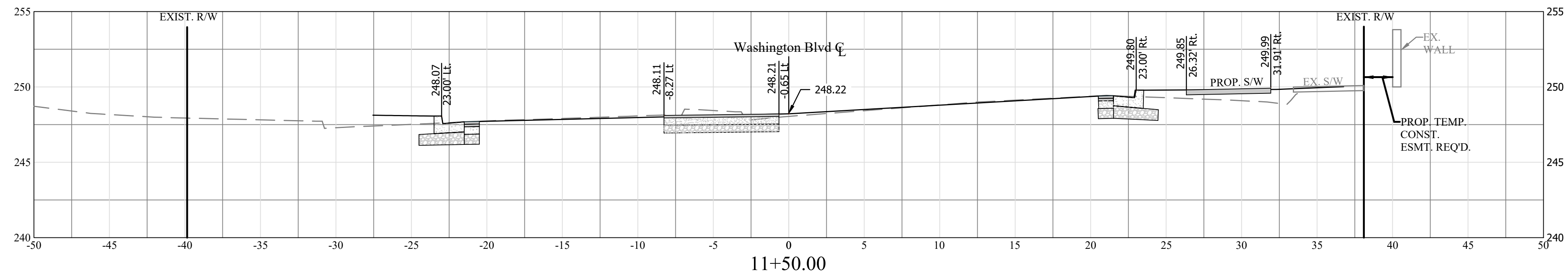
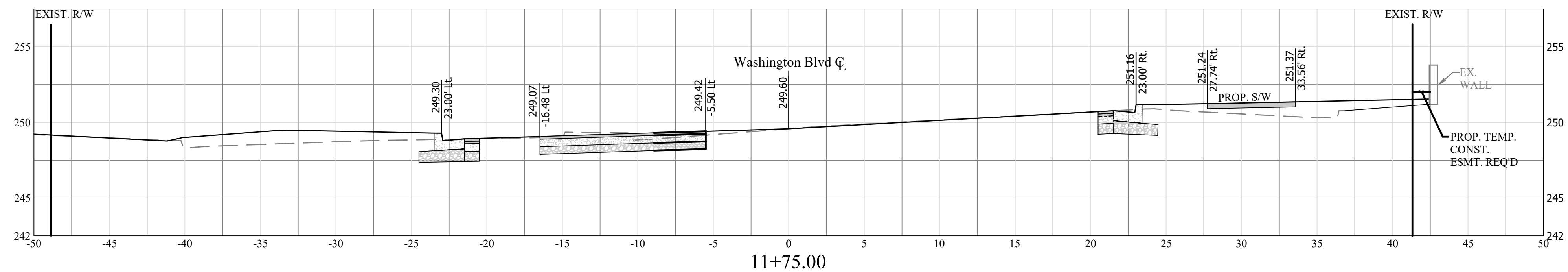
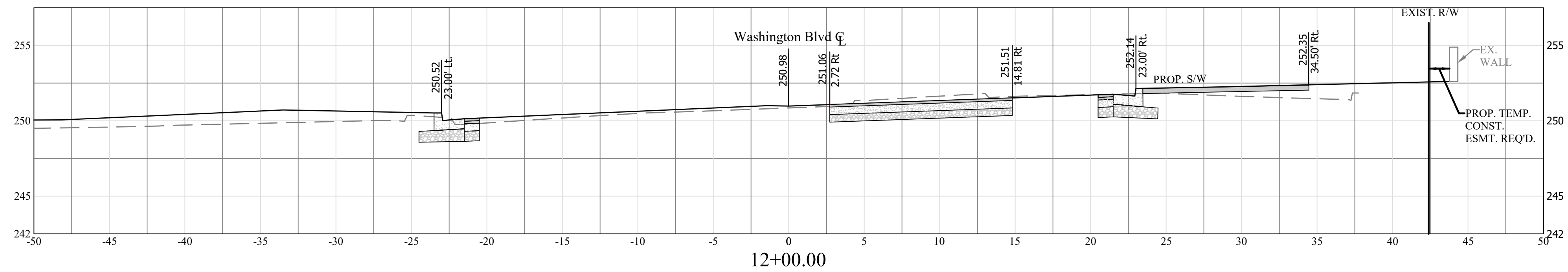
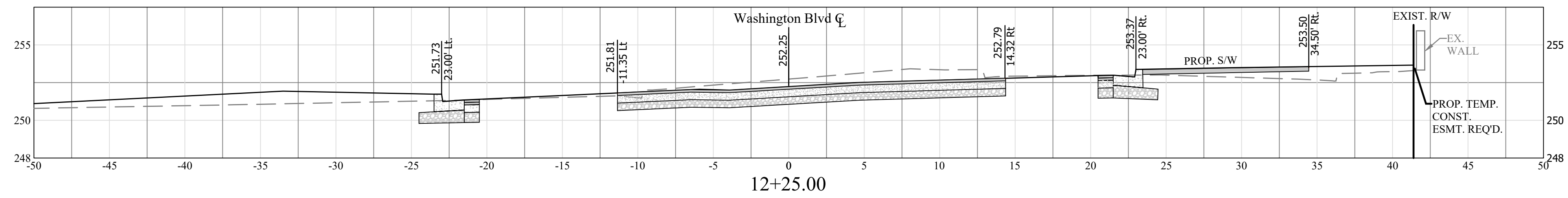
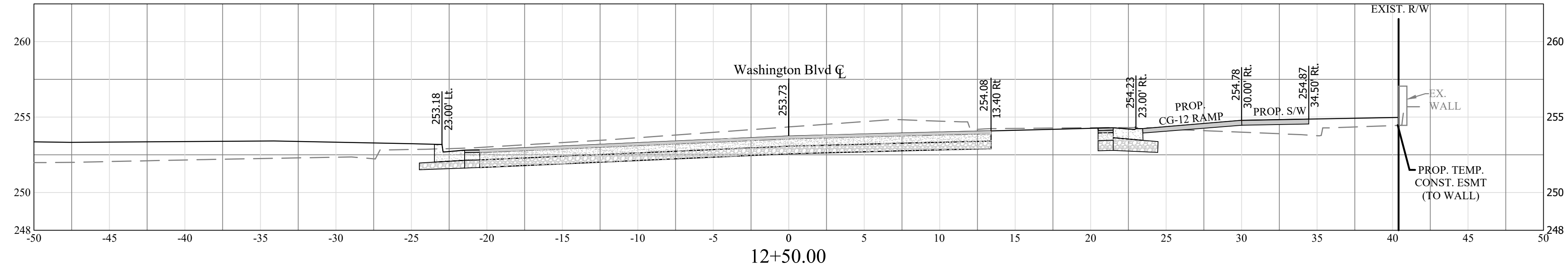
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 Plotted by: CL

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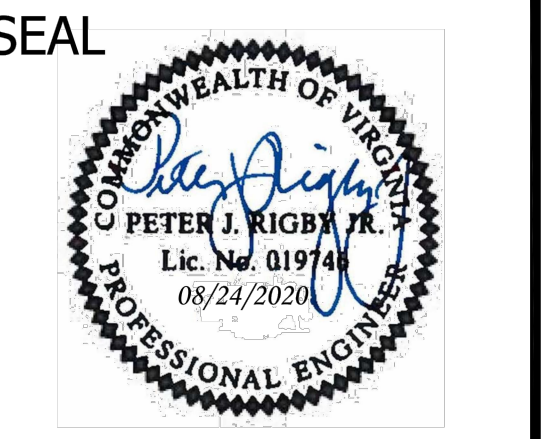
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17 OF 38

Washington Blvd Baseline



DEPARTMENT OF ENVIRONMENTAL SERVICES
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 2100 CLARENDON BOULEVARD, SUITE 813
 ARLINGTON, VA 22201
 PHONE: 703.228.3629
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APPROVALS	DATE
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<i>Kamal Tabak</i>	8.31.20
CONSTRUCTION MANAGEMENT SUPERVISOR	
<i>[Signature]</i>	09.16.2020
WATER, SEWER, STREETS BUREAU CHIEF	
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TRANSPORTATION DIRECTOR	
<i>Gabriela Koch</i>	August 24, 2020
PROJECT MANAGER	

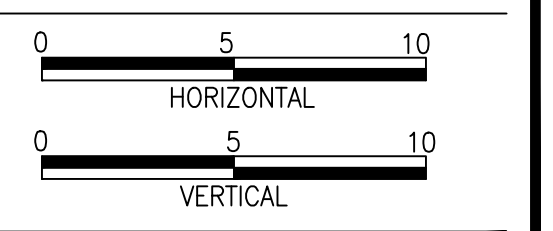
REVISIONS	DATE

Project Name and Location
WASHINGTON BOULEVARD & 13TH STREET NORTH IMPROVEMENTS
 CROSS SECTIONS (2 OF 10)

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 Checked: MSD
 Miss Utility Transmittal #: N/A

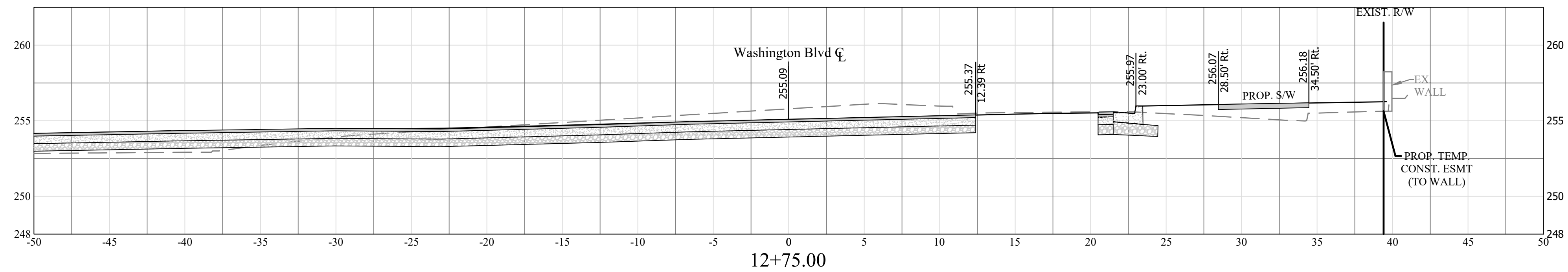
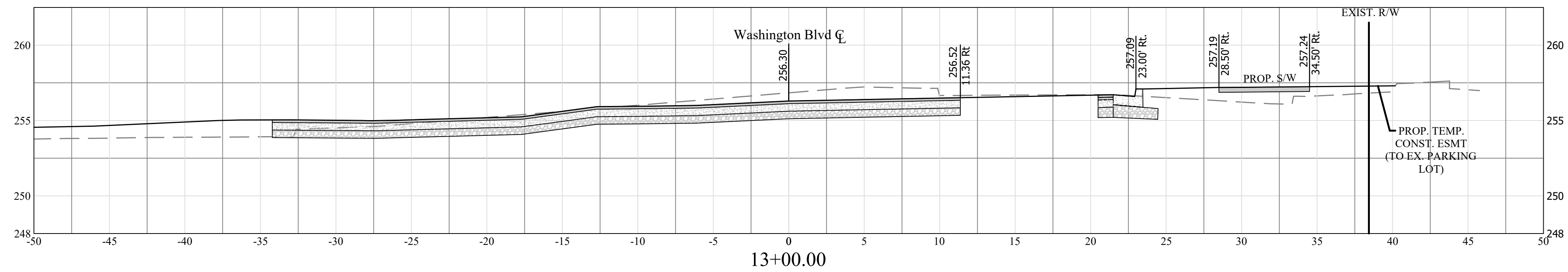
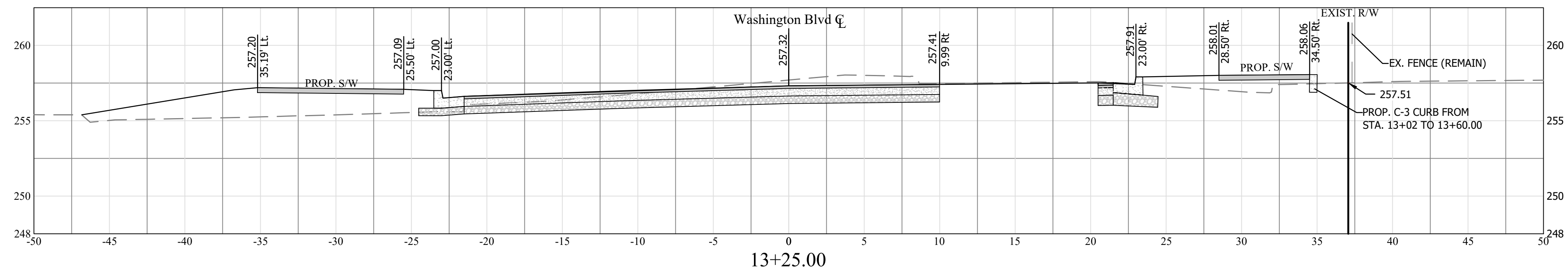
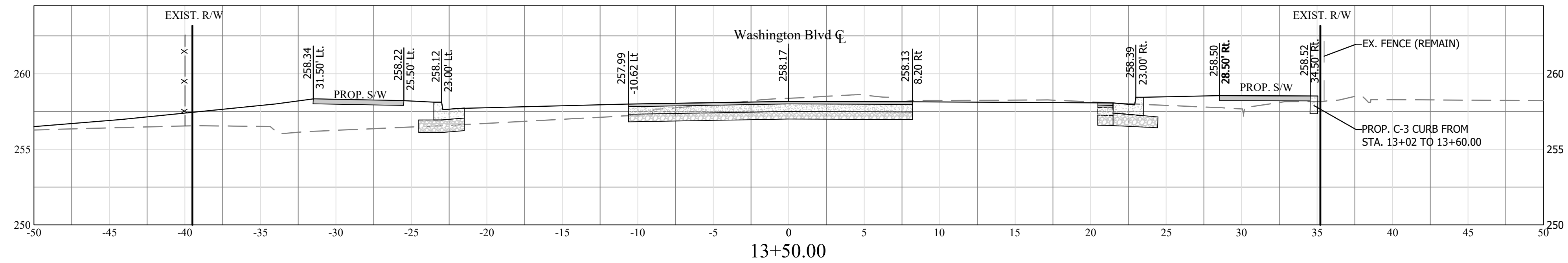
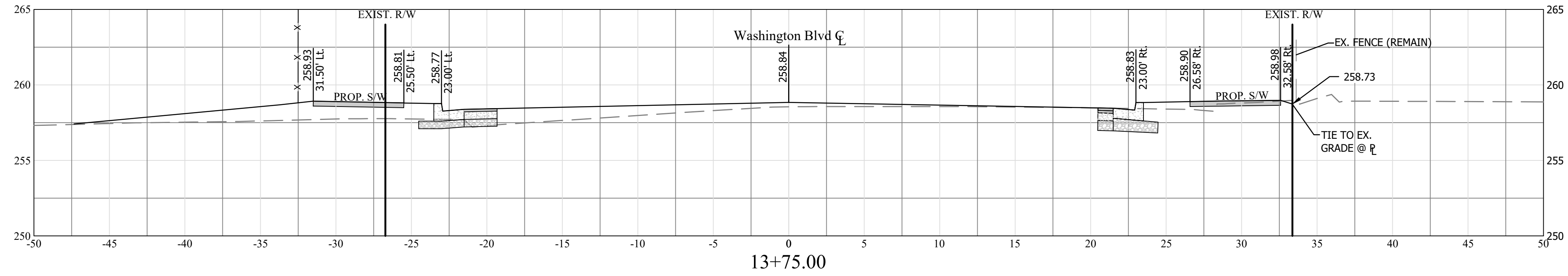
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 Plotted by: CL

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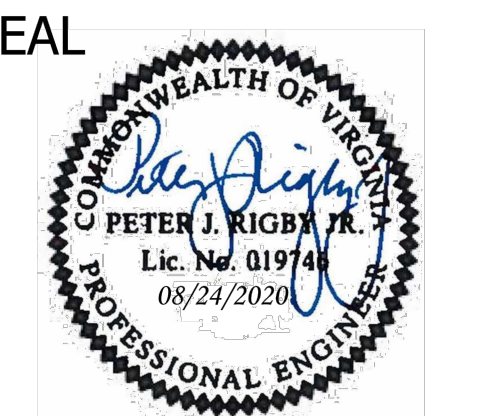
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Washington Blvd Baseline



DEPARTMENT OF ENVIRONMENTAL SERVICES
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<i>Gabriela Koch</i>	August 24, 2020
PROJECT MANAGER	

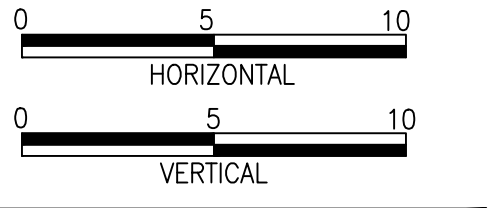
REVISIONS	DATE

Project Name and Location
WASHINGTON BOULEVARD & 13TH STREET NORTH IMPROVEMENTS
 CROSS SECTIONS (3 OF 10)

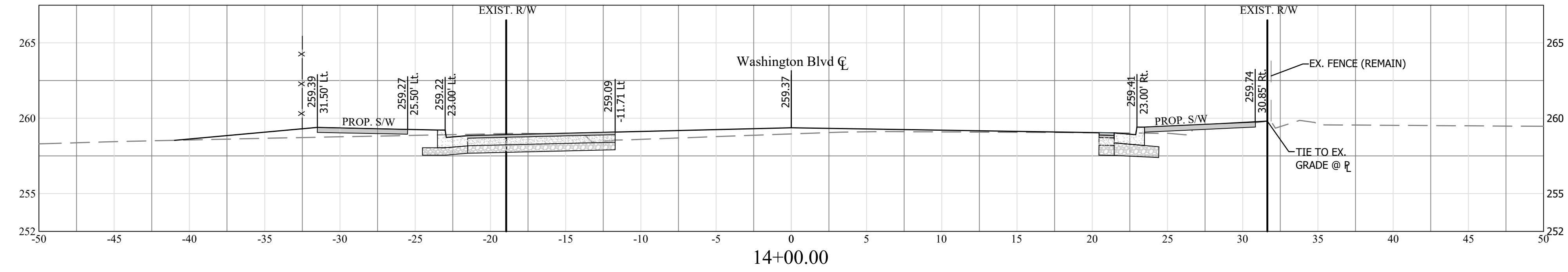
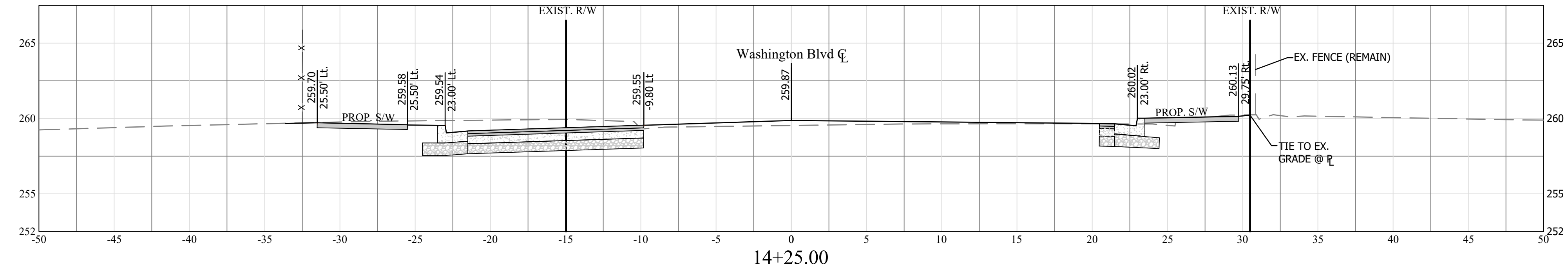
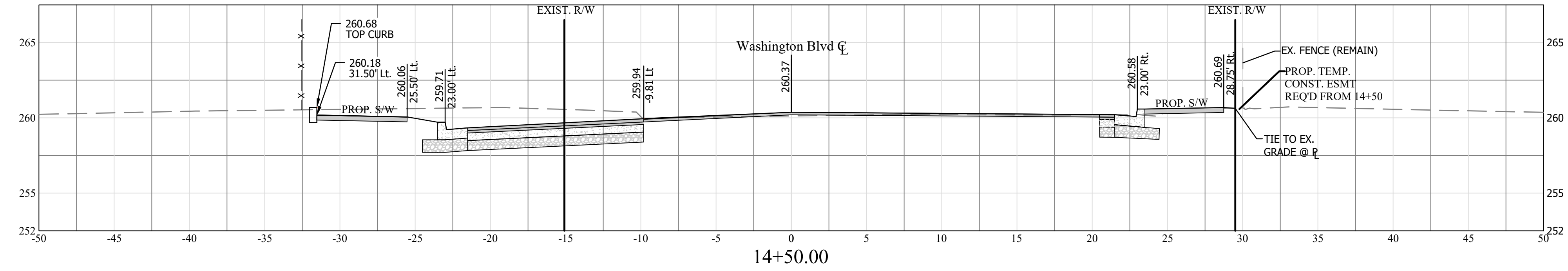
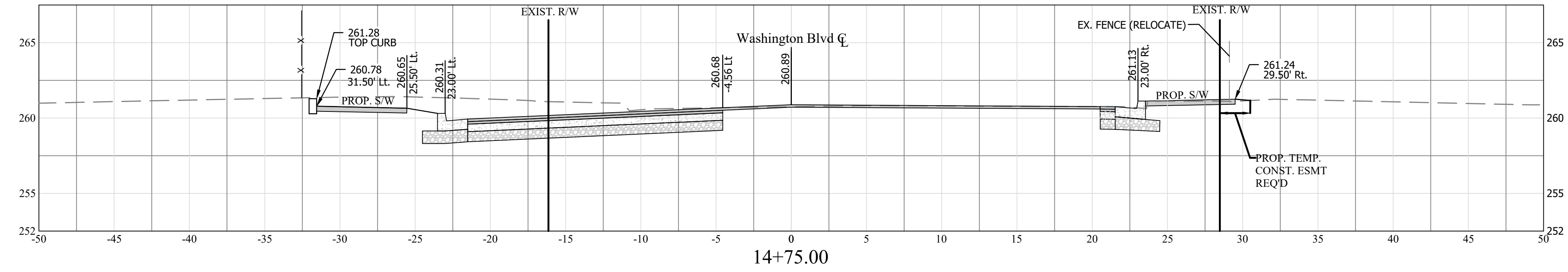
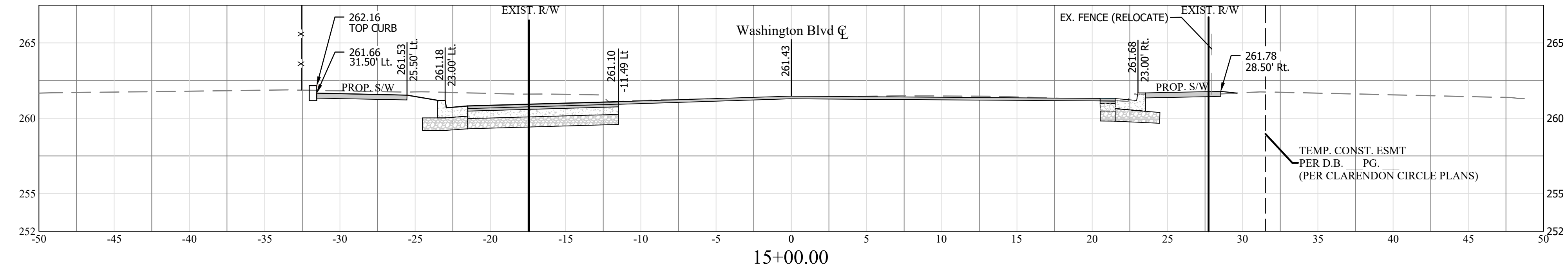
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 Plotted by: CL

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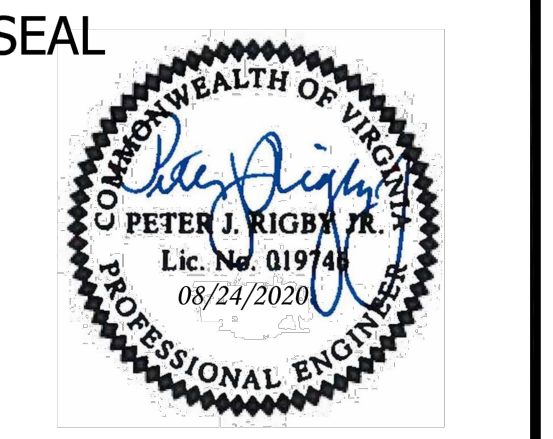


Washington Blvd Baseline



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APPROVALS	DATE
<i>Amy Pflaum</i>	9/11/2020
QUALITY CONTROL ENGINEER	
<i>Kamal Taktak</i>	8.31.20
CONSTRUCTION MANAGEMENT SUPERVISOR	
<i>[Signature]</i>	09.16.2020
WATER, SEWER, STREETS BUREAU CHIEF	
<i>Dennis M. Leach</i>	09/11/20
TRANSPORTATION DIRECTOR	
<i>Gabriela Koch</i>	August 24, 2020
PROJECT MANAGER	

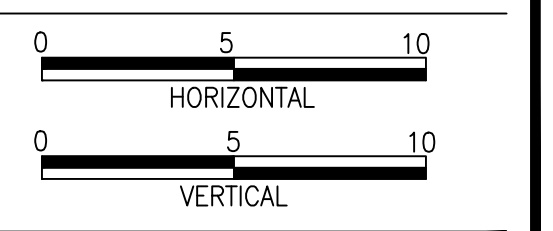
REVISIONS	DATE

Project Name and Location
WASHINGTON BOULEVARD & 13TH STREET NORTH IMPROVEMENTS
 CROSS SECTIONS (4 OF 10)

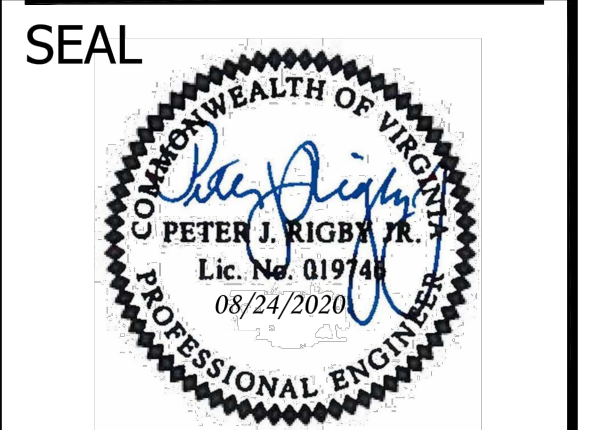
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 Plotted by: CL

Scale: Hor: 1"=5'
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Sheet
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APPROVALS	DATE
<i>Amy Pflaum</i> QUALITY CONTROL ENGINEER	9/11/2020
<i>Kamal Taktak</i> CONSTRUCTION MANAGEMENT SUPERVISOR	8.31.20 09.16.2020
<i>Donnie M. Leach</i> WATER, SEWER, STREETS BUREAU CHIEF	09/11/20
<i>Gabriela Koch</i> TRANSPORTATION DIRECTOR	August 24, 2020
<i>Gabriela Koch</i> PROJECT MANAGER	

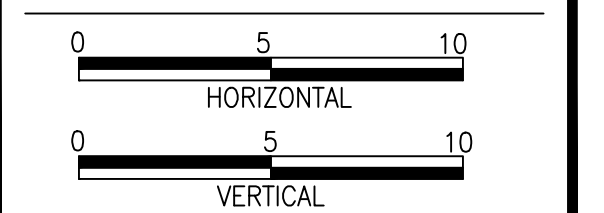
REVISIONS	DATE

Project Name and Location
WASHINGTON BOULEVARD & 13TH STREET NORTH IMPROVEMENTS
CROSS SECTIONS (5 OF 10)

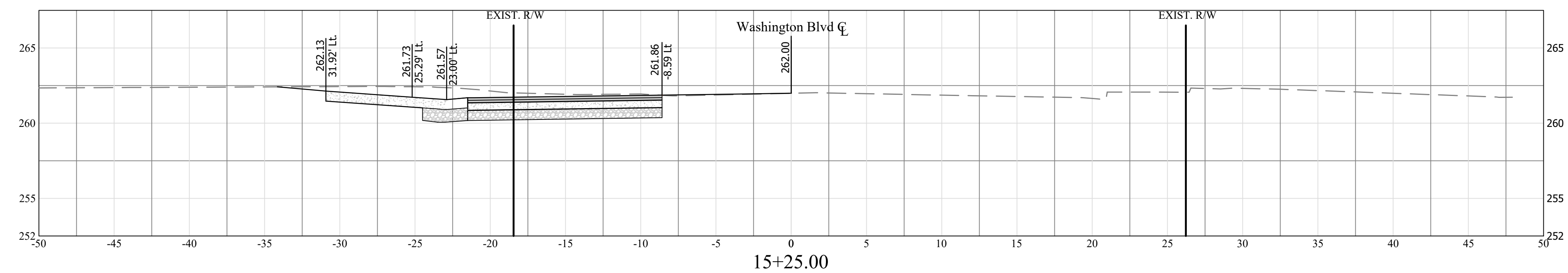
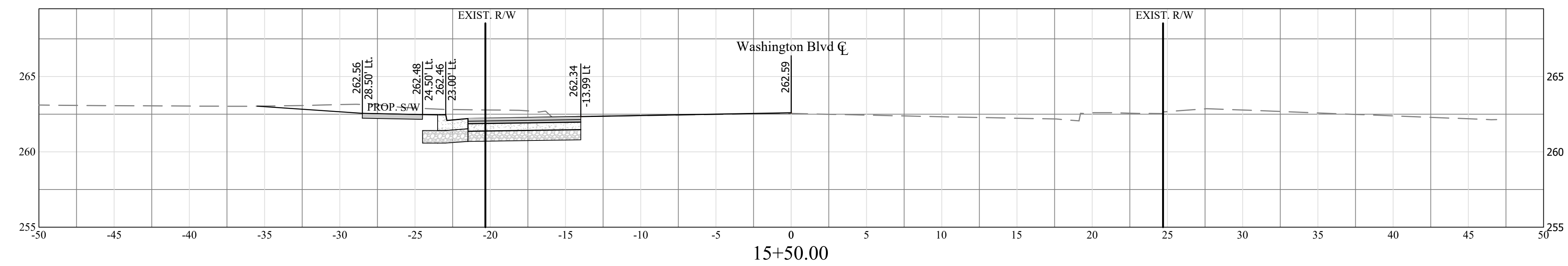
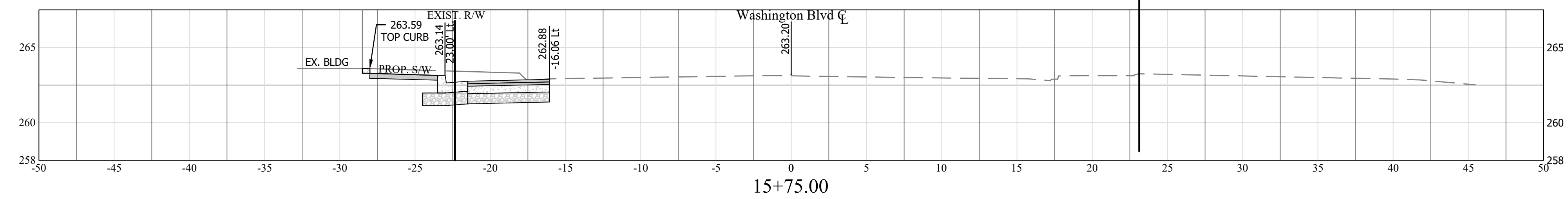
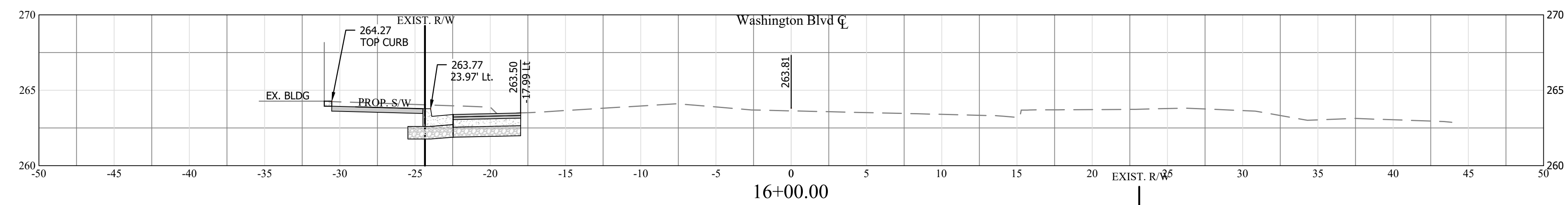
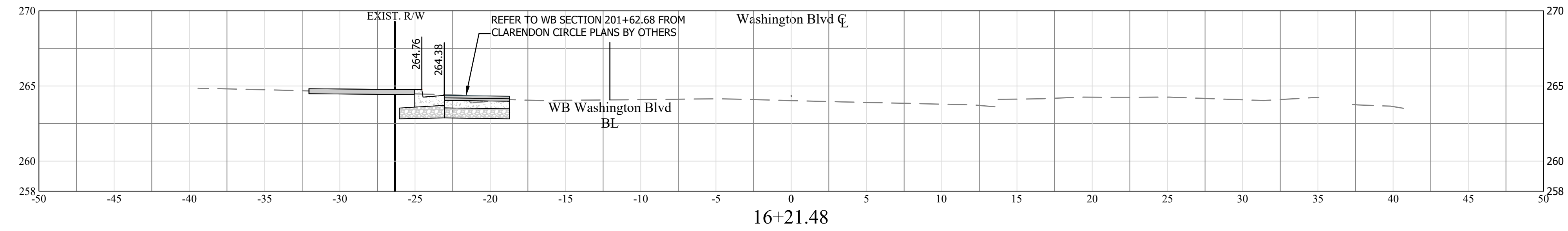
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Miss Utility Transmittal #: N/A

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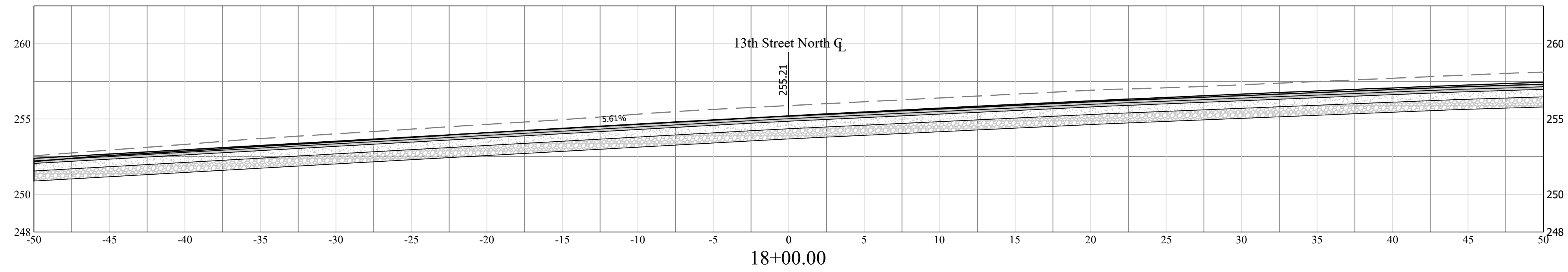
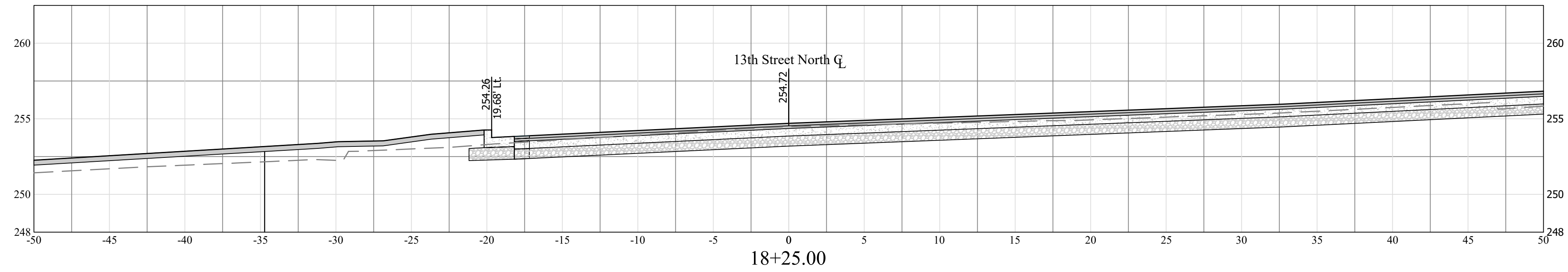
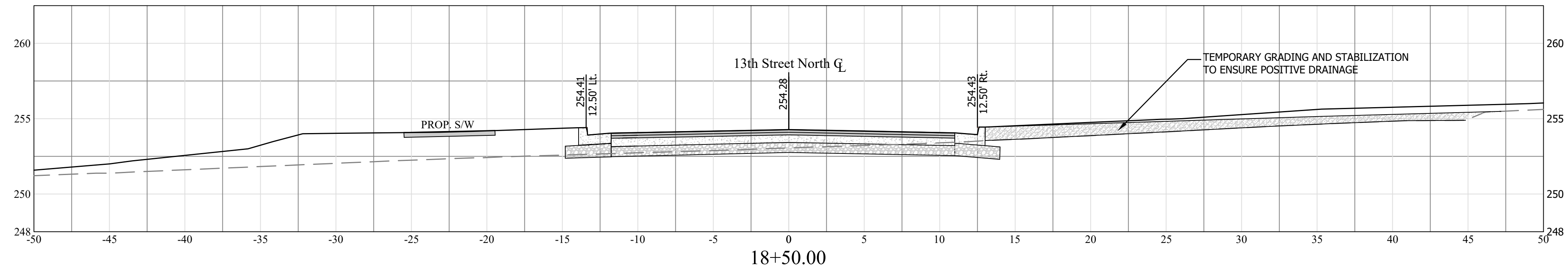
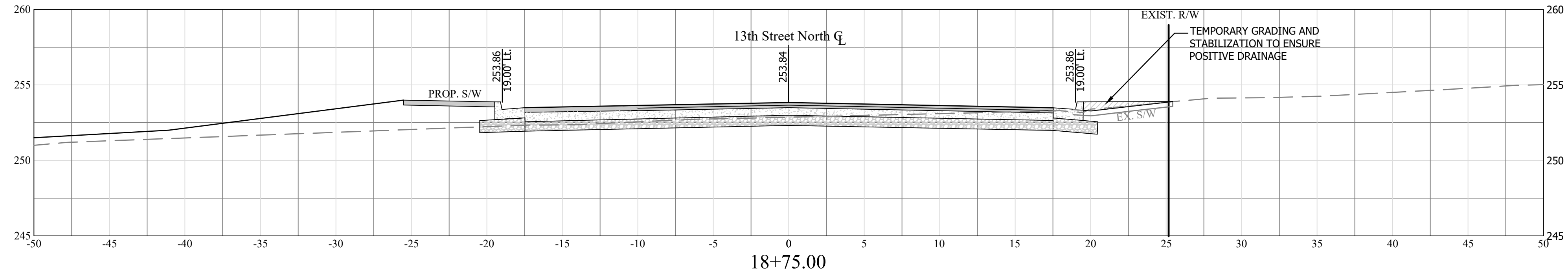
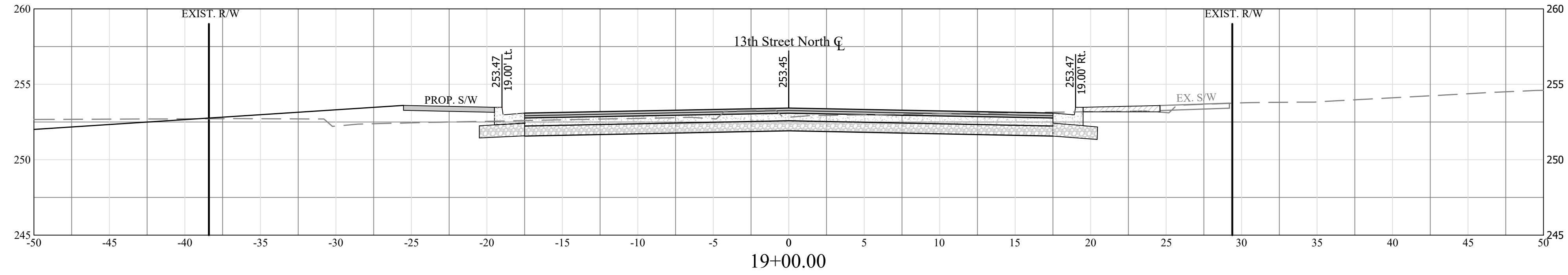
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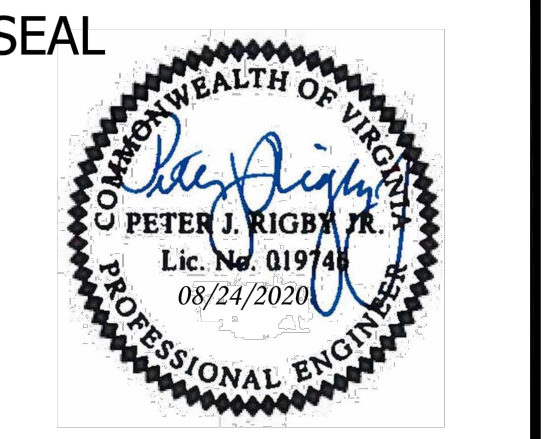


13TH Street North Baseline



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<i>Gabriela Koch</i>	August 24, 2020
PROJECT MANAGER	

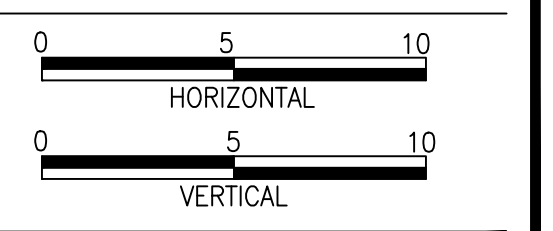
REVISIONS	DATE

Project Name and Location
WASHINGTON BOULEVARD & 13TH STREET NORTH IMPROVEMENTS
 CROSS SECTIONS (6 OF 10)

Designed: ABB
 Drawn: CDL
 Checked: MSD
 Miss Utility Transmittal #: N/A

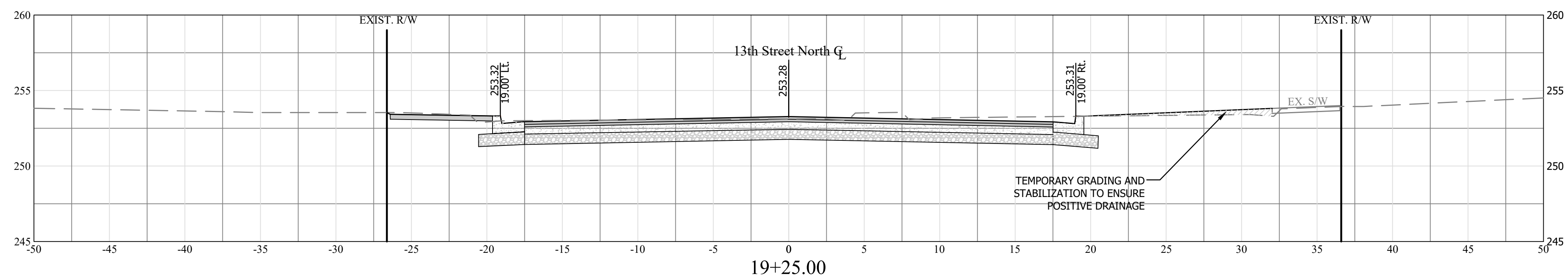
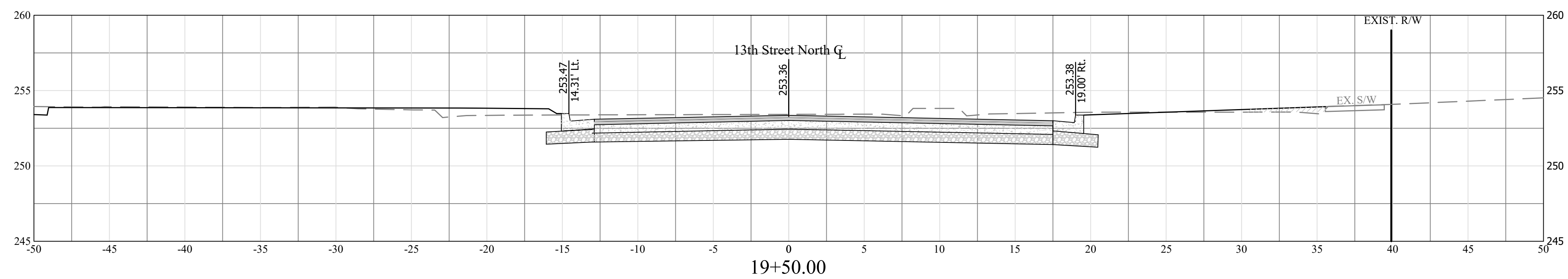
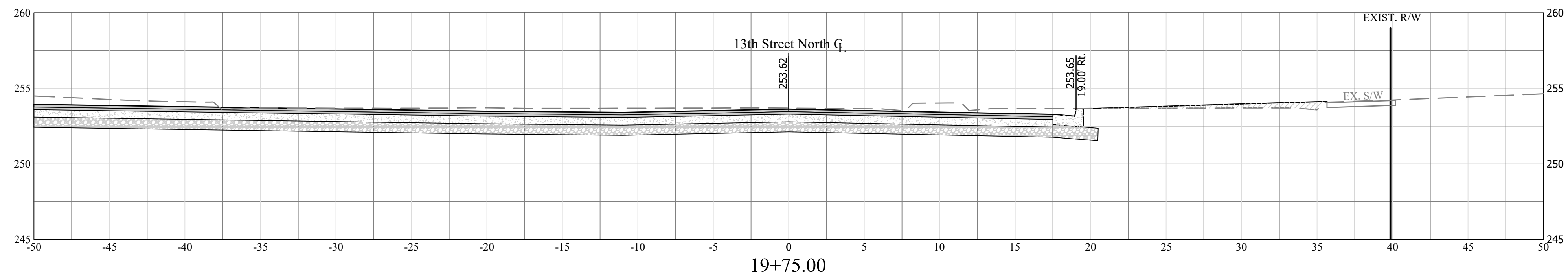
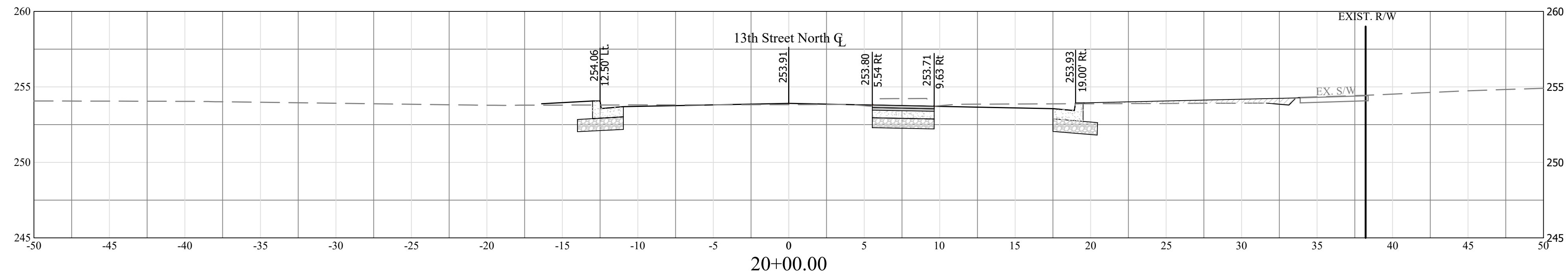
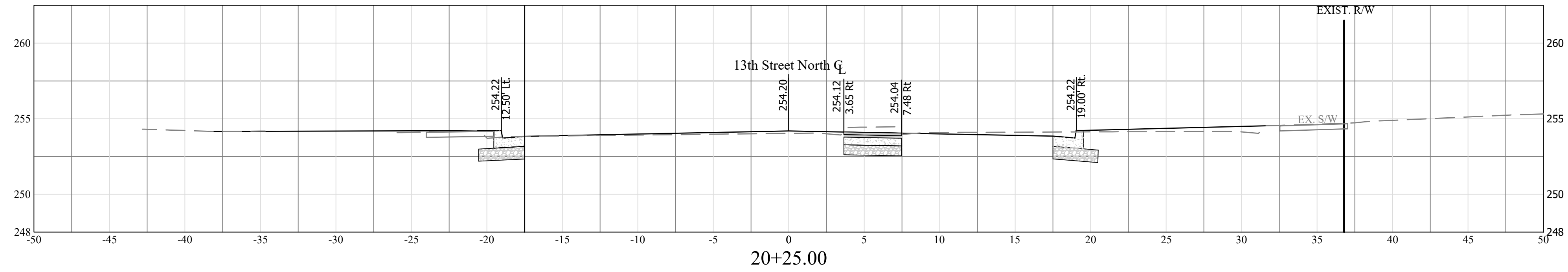
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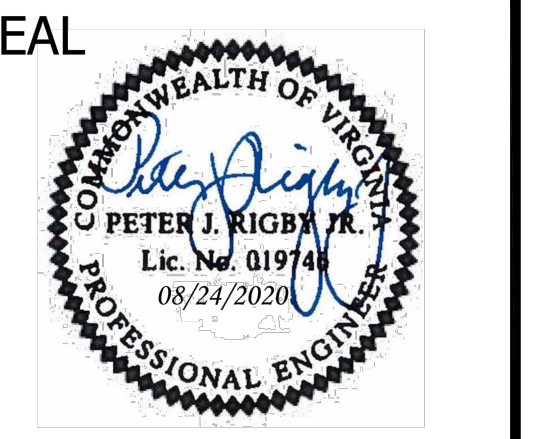
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13TH Street North Baseline



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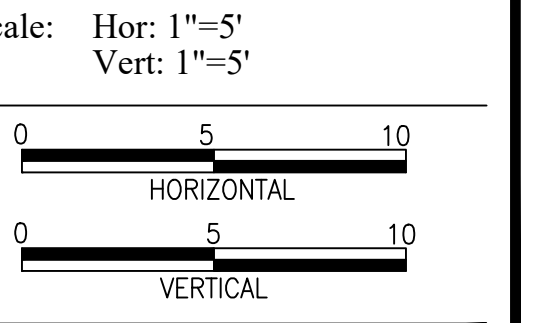
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<i>Amy Pflaum</i> QUALITY CONTROL ENGINEER	9/11/2020
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<i>Gabriela Koch</i> PROJECT MANAGER	August 24, 2020

REVISIONS	DATE

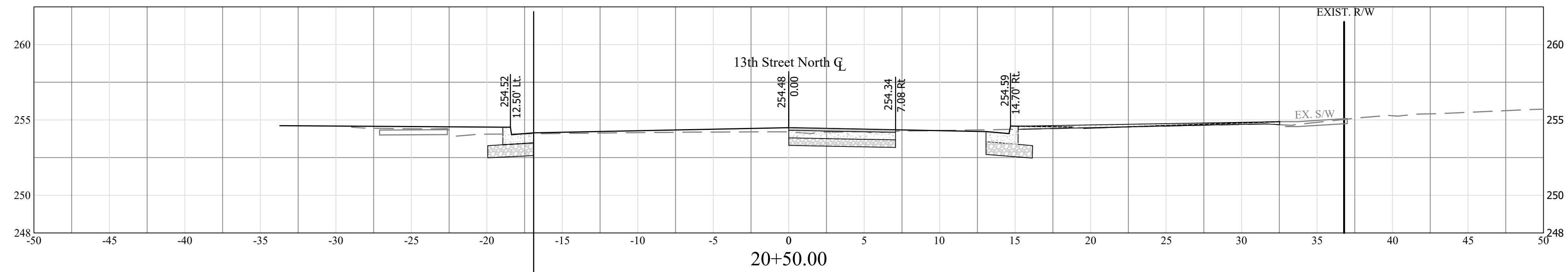
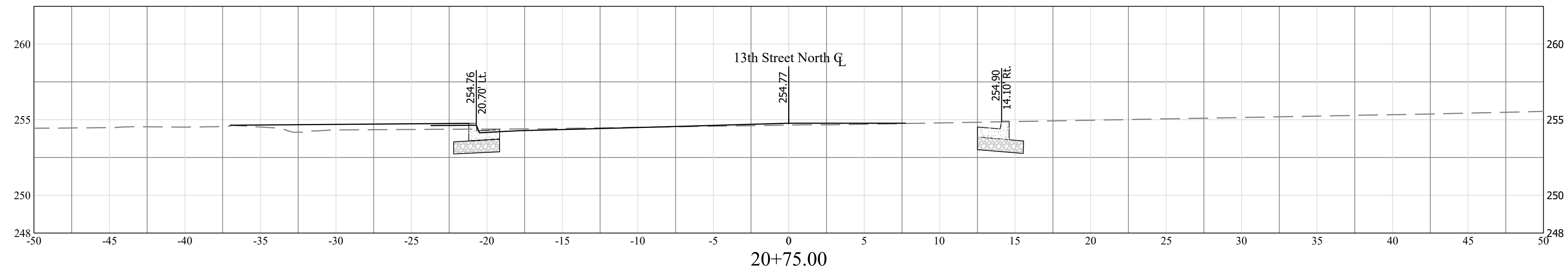
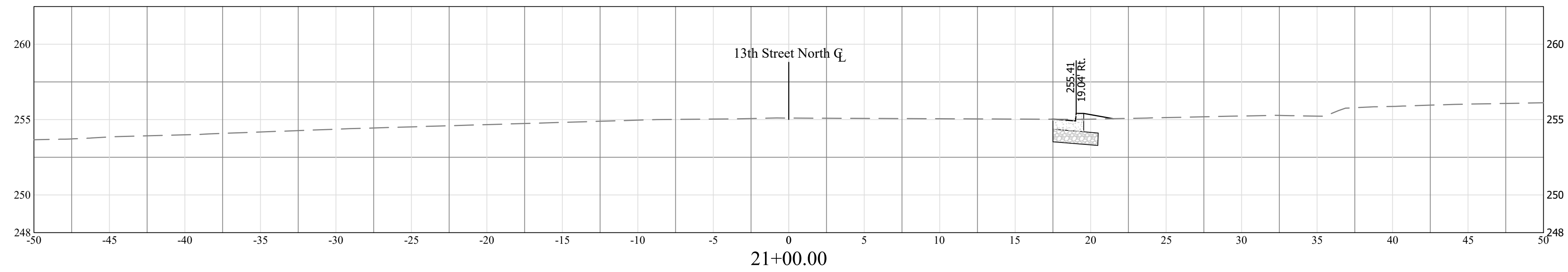
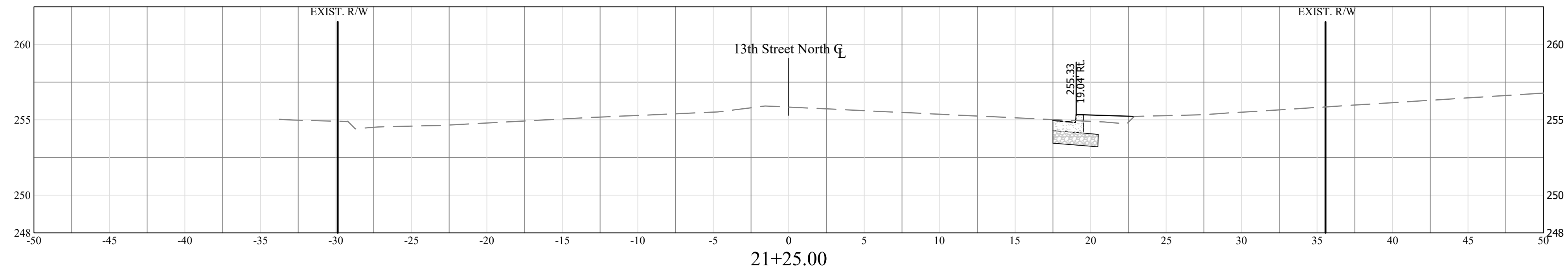
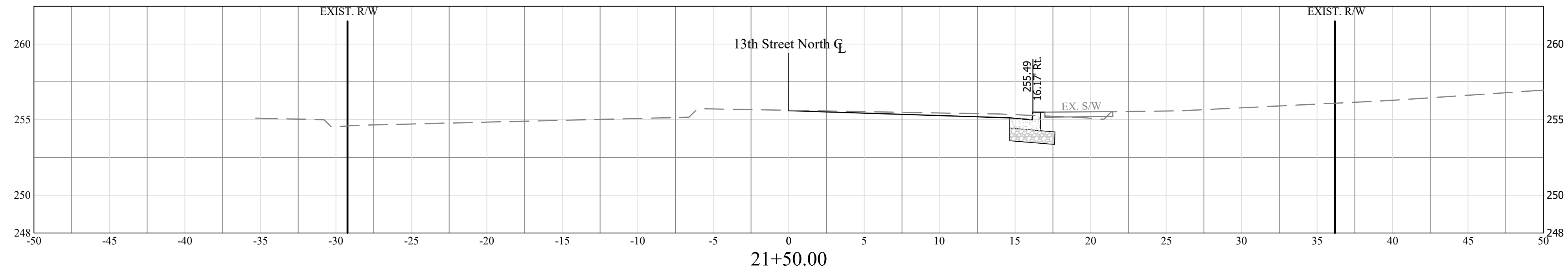
Project Name and Location
WASHINGTON BOULEVARD & 13TH STREET NORTH IMPROVEMENTS
 CROSS SECTIONS (7 OF 10)

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 Drawn: CDL
 Checked: MSD
 Miss Utility Transmittal #: N/A

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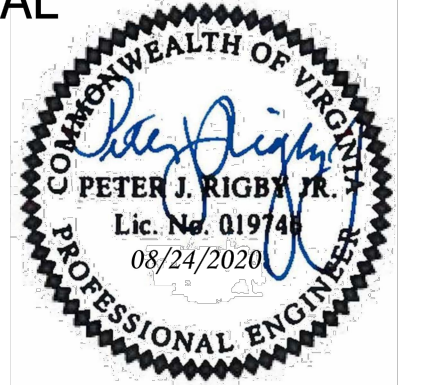
13TH Street North Baseline



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APPROVALS	DATE
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<i>Gabriela Koch</i> PROJECT MANAGER	August 24, 2020

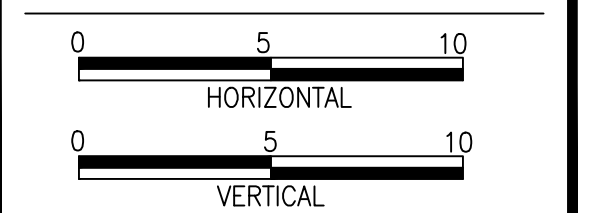
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Project Name and Location
WASHINGTON BOULEVARD & 13TH STREET NORTH IMPROVEMENTS
 CROSS SECTIONS (8 OF 10)

Designed: ABB
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 Miss Utility Transmittal #: N/A

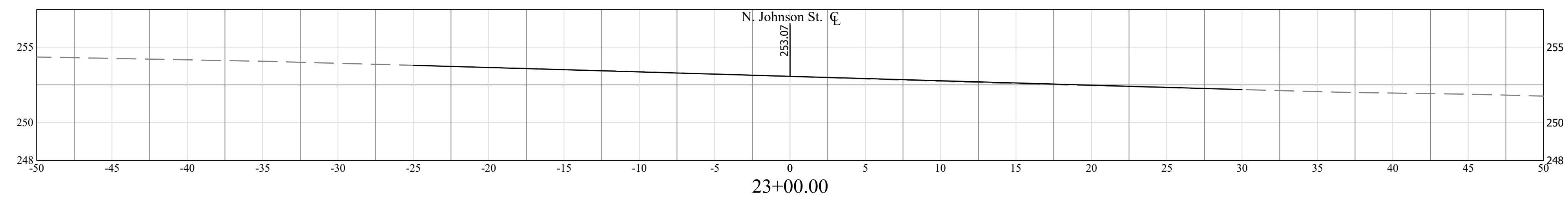
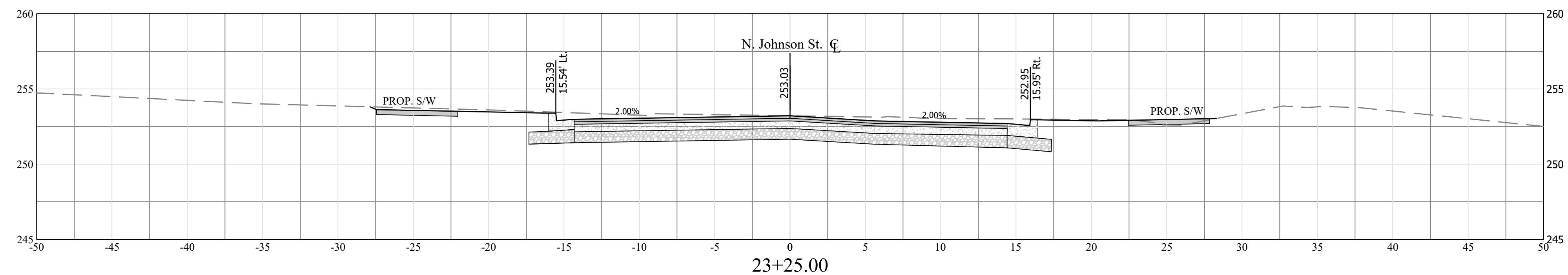
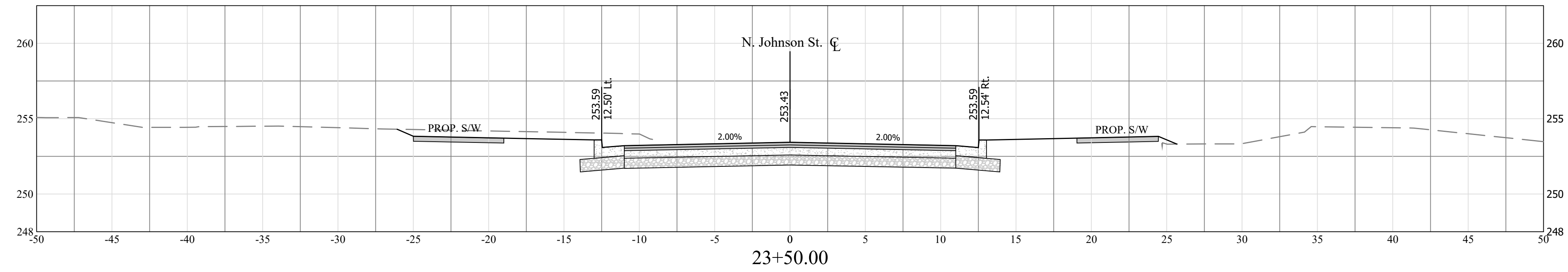
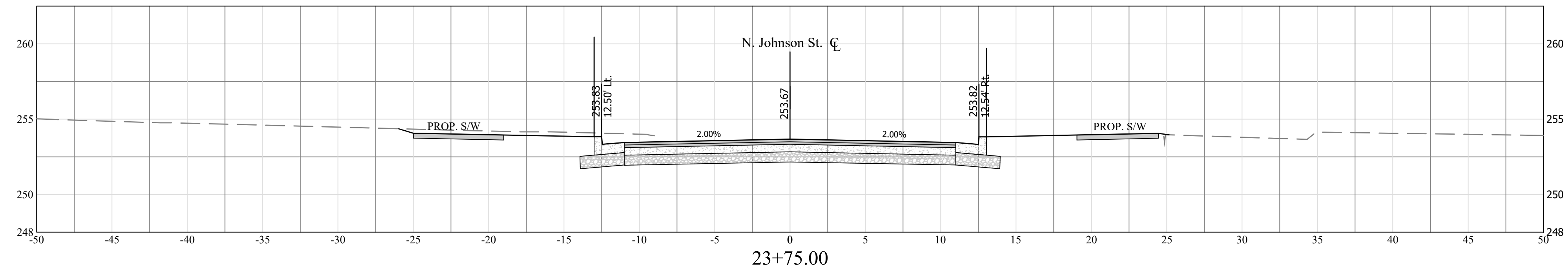
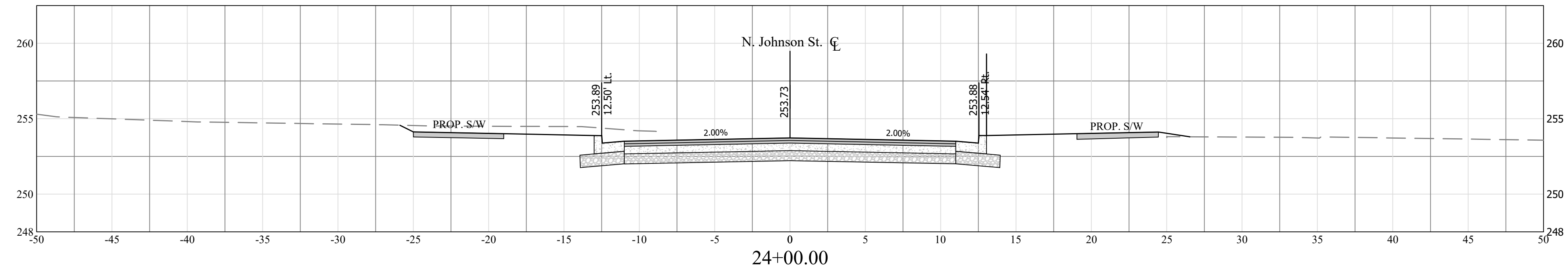
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 Plotted by: CL

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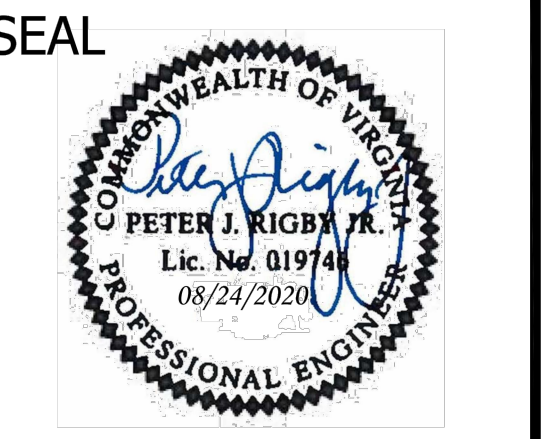
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N. Johnson Street Baseline



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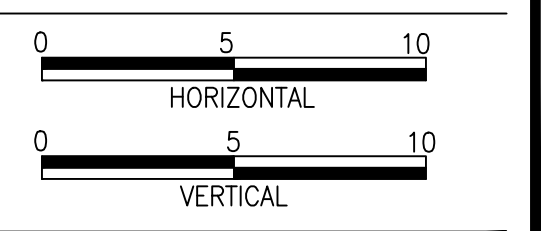
REVISIONS	DATE

Project Name and Location
WASHINGTON BOULEVARD & 13TH STREET NORTH IMPROVEMENTS
 CROSS SECTIONS (9 OF 10)

Designed: ABB
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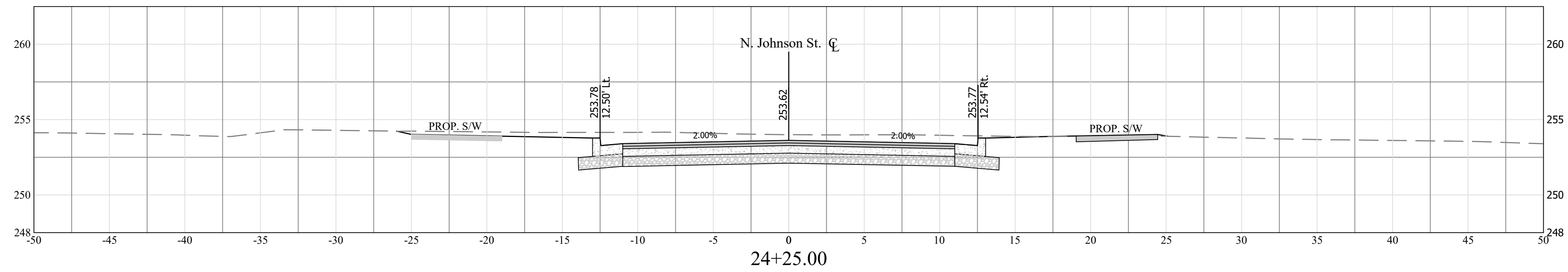
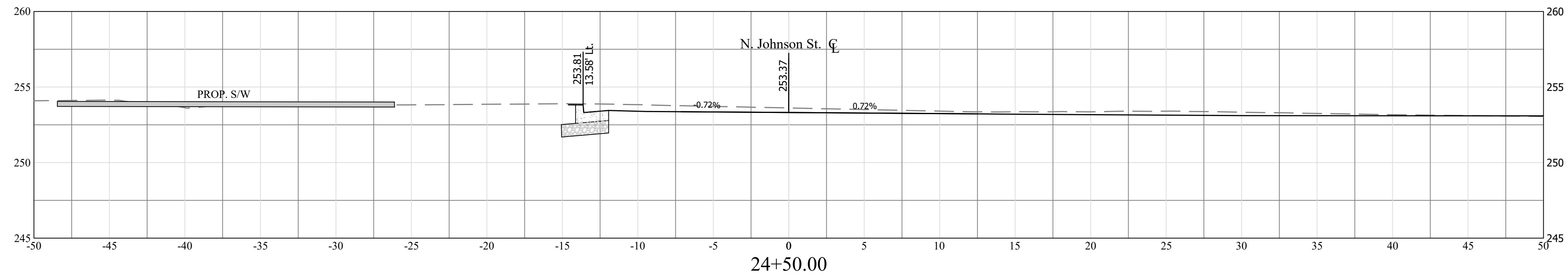
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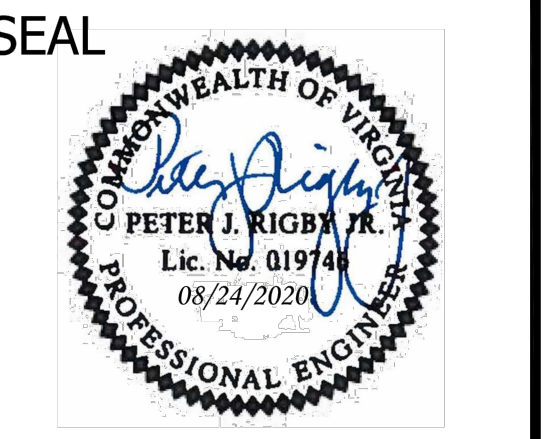


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N. Johnson Street Baseline



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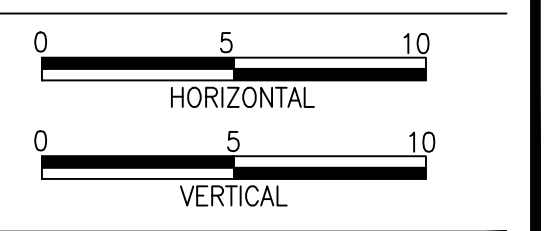
REVISIONS	DATE

Project Name and Location
WASHINGTON BOULEVARD & 13TH STREET NORTH IMPROVEMENTS
 CROSS SECTIONS (10 OF 10)

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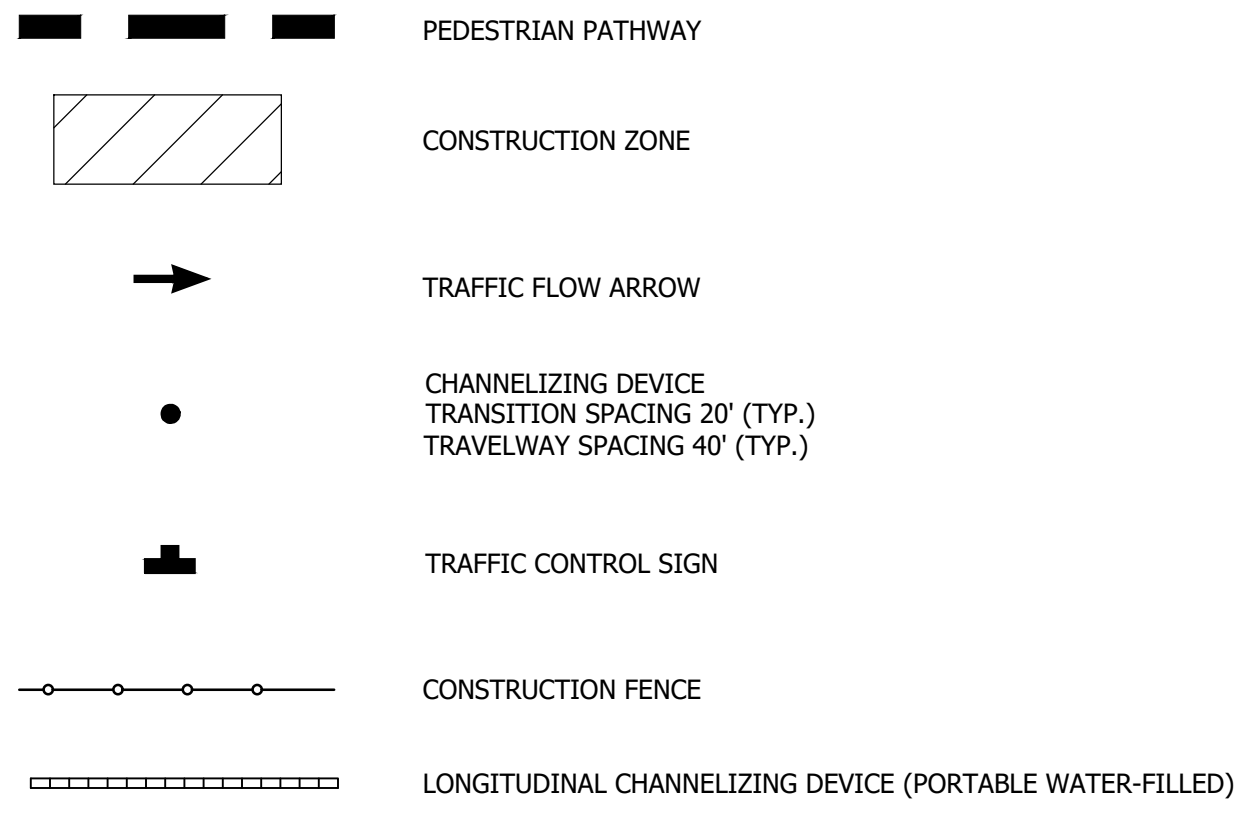
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 Plotted: September 17, 2020
 Plotted by: CL

Scale: Hor: 1"=5'
 Vert: 1"=5'



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MOT LEGEND



SEQUENCE OF CONSTRUCTION NOTES:

- PHASE I (4 MONTHS):**
1. REMOVE MEDIANS IN 13TH STREET.
 2. BUILD NEW SANITARY SEWER IN 13TH STREET. INSTALL MANHOLE C AND REMOVE PORTION OF EXISTING SANITARY LINE NEAR NEW SWITCH.
 3. BUILD A PORTION OF NEW WATERLINE IN 13TH STREET.
 4. BUILD NEW STORM SEWER IN PROP. JOHNSON STREET.
 5. BUILD NEW ROADWAY "JOHNSON STREET". PROVIDE TEMPORARY ROAD SURFACE CONNECTION TO 13TH STREET.
 6. BUILD SWITCH PAD.
 7. INSTALL MOT CONTROLS IN WASHINGTON BLVD. BAG SIGNAL HEAD JUST EAST OF EXISTING CROSSWALK. ALL OTHER SIGNALS/PED CROSSING SHALL REMAIN OPERATIONAL.
 8. BUILD NEW WATERLINE IN WASHINGTON BOULEVARD WORKING FROM EAST TO WEST.

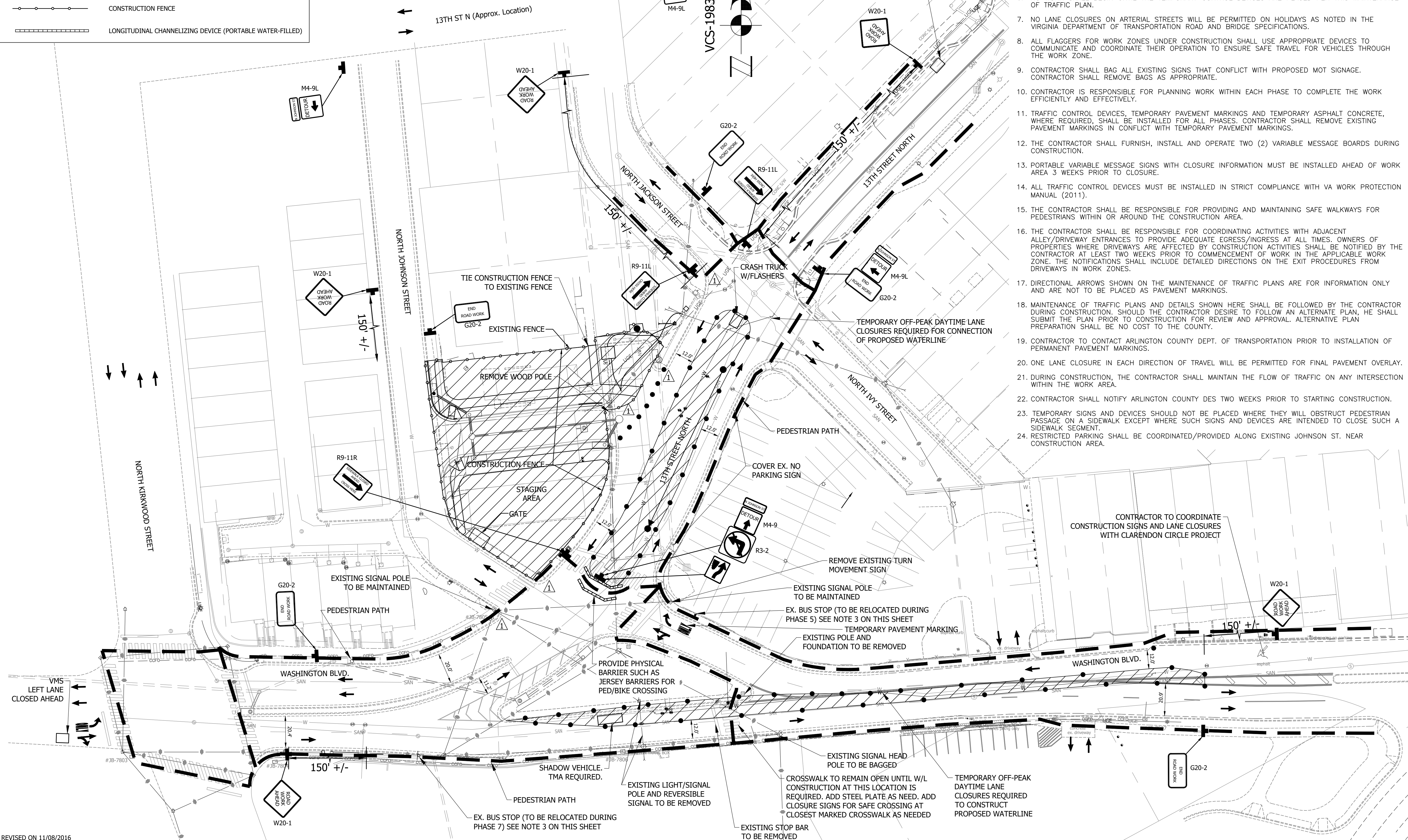
WORK HOURS:

1. IN ARLINGTON RIGHT-OF-WAY - 9 AM TO 4 PM (MON.-FRI.)
 2. IN VDOT RIGHT-OF-WAY - 9:30 AM TO 3 PM (MON.-THUR.) AND 9:30 AM TO 2 PM (FRI.)
- ALL LANES SHALL BE FULLY OPEN TO TRAFFIC OUTSIDE THE ABOVE HOURS UNLESS SPECIFIED OTHERWISE IN THE MAINTENANCE OF TRAFFIC PLANS.

CONTRACTOR TO MAINTAIN ACCESSIBLE ROUTE. EXISTING HANDICAP RAMPS TO BE MAINTAINED OR TEMPORARY RAMPS TO BE PROVIDED TO ADEQUATELY SUB-PHASE CONSTRUCTION OF NEW SIDEWALK FACILITIES.

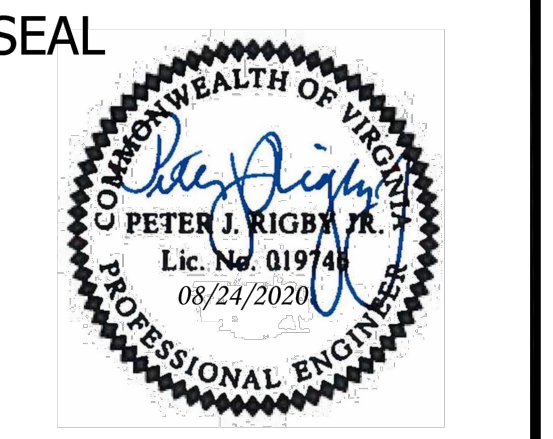
MOT NOTES:

1. IT IS NOT THE INTENT OF THE MAINTENANCE OF TRAFFIC PLAN TO ENUMERATE EVERY DETAIL WHICH MUST BE CONSIDERED IN CONSTRUCTION, BUT ONLY TO SHOW THE GENERAL HANDLING OF TRAFFIC; UNLESS OTHERWISE APPROVED OR DIRECTED BY THE ENGINEER, THE CONTRACTOR SHALL PLAN AND EXECUTE THE WORK IN ACCORDANCE WITH THIS TEMPORARY TRAFFIC CONTROL PLAN.
2. PARKING SHALL BE RESTRICTED BY THE COUNTY AS PART OF THE RIGHT-OF-WAY PERMIT. CONTACT DES-PERMITTING SECTION (703-228-4798) AT LEAST 72 HOURS PRIOR TO COMMENCEMENT OF WORK.
3. THE CONTRACTOR SHALL COORDINATE WITH ARLINGTON COUNTY TRANSIT BUREAU (703-228-3049) AT LEAST 4 WEEKS PRIOR TO COMMENCEMENT OF WORK FOR APPROVAL, IF TRANSIT IS AFFECTED.
4. ALL SIGNS AND TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) LATEST EDITION.
5. UNLESS OTHERWISE SHOWN ON THE MAINTENANCE OF TRAFFIC PLAN, THE TYPES AND DISTANCES BETWEEN CONSTRUCTION SIGNS ON THIS PROJECT SHALL BE IN ACCORDANCE WITH THE MOST CURRENT EDITIONS OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS (MUTCD) AND ALL REVISIONS THERETO, THE VIRGINIA SUPPLEMENT TO THE MUTCD AND ALL REVISIONS THERETO, AND THE VIRGINIA WORK AREA PROTECTION MANUAL, 2011 (VA WAPM) AND ALL REVISIONS THERETO.
6. NO WORK SHALL BEGIN UNTIL THE TEMPORARY CONTROL DEVICES ARE PLACED PER THIS MAINTENANCE OF TRAFFIC PLAN.
7. NO LANE CLOSURES ON ARTERIAL STREETS WILL BE PERMITTED ON HOLIDAYS AS NOTED IN THE VIRGINIA DEPARTMENT OF TRANSPORTATION ROAD AND BRIDGE SPECIFICATIONS.
8. ALL FLAGGERS FOR WORK ZONES UNDER CONSTRUCTION SHALL USE APPROPRIATE DEVICES TO COMMUNICATE AND COORDINATE THEIR OPERATION TO ENSURE SAFE TRAVEL FOR VEHICLES THROUGH THE WORK ZONE.
9. CONTRACTOR SHALL BAG ALL EXISTING SIGNS THAT CONFLICT WITH PROPOSED MOT SIGNAGE. CONTRACTOR SHALL REMOVE BAGS AS APPROPRIATE.
10. CONTRACTOR IS RESPONSIBLE FOR PLANNING WORK WITHIN EACH PHASE TO COMPLETE THE WORK EFFICIENTLY AND EFFECTIVELY.
11. TRAFFIC CONTROL DEVICES, TEMPORARY PAVEMENT MARKINGS AND TEMPORARY ASPHALT CONCRETE, WHERE REQUIRED, SHALL BE INSTALLED FOR ALL PHASES. CONTRACTOR SHALL REMOVE EXISTING PAVEMENT MARKINGS IN CONFLICT WITH TEMPORARY PAVEMENT MARKINGS.
12. THE CONTRACTOR SHALL FURNISH, INSTALL AND OPERATE TWO (2) VARIABLE MESSAGE BOARDS DURING CONSTRUCTION.
13. PORTABLE VARIABLE MESSAGE SIGNS WITH CLOSURE INFORMATION MUST BE INSTALLED AHEAD OF WORK AREA 3 WEEKS PRIOR TO CLOSURE.
14. ALL TRAFFIC CONTROL DEVICES MUST BE INSTALLED IN STRICT COMPLIANCE WITH VA WORK PROTECTION MANUAL (2011).
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING SAFE WALKWAYS FOR PEDESTRIANS WITHIN OR AROUND THE CONSTRUCTION AREA.
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ACTIVITIES WITH ADJACENT ALLEY/DRIVEWAY ENTRANCES TO PROVIDE ADEQUATE EGRESS/INGRESS AT ALL TIMES. OWNERS OF PROPERTIES WHERE DRIVEWAYS ARE AFFECTED BY CONSTRUCTION ACTIVITIES SHALL BE NOTIFIED BY THE CONTRACTOR AT LEAST TWO WEEKS PRIOR TO COMMENCEMENT OF WORK IN THE APPLICABLE WORK ZONE. THE NOTIFICATIONS SHALL INCLUDE DETAILED DIRECTIONS ON THE EXIT PROCEDURES FROM DRIVEWAYS IN WORK ZONES.
17. DIRECTIONAL ARROWS SHOWN ON THE MAINTENANCE OF TRAFFIC PLANS ARE FOR INFORMATION ONLY AND ARE NOT TO BE PLACED AS PAVEMENT MARKINGS.
18. MAINTENANCE OF TRAFFIC PLANS AND DETAILS SHOWN HERE SHALL BE FOLLOWED BY THE CONTRACTOR DURING CONSTRUCTION. SHOULD THE CONTRACTOR DESIRE TO FOLLOW AN ALTERNATE PLAN, HE SHALL SUBMIT THE PLAN PRIOR TO CONSTRUCTION FOR REVIEW AND APPROVAL. ALTERNATIVE PLAN PREPARATION SHALL BE NO COST TO THE COUNTY.
19. CONTRACTOR TO CONTACT ARLINGTON COUNTY DEPT. OF TRANSPORTATION PRIOR TO INSTALLATION OF PERMANENT PAVEMENT MARKINGS.
20. ONE LANE CLOSURE IN EACH DIRECTION OF TRAVEL WILL BE PERMITTED FOR FINAL PAVEMENT OVERLAY.
21. DURING CONSTRUCTION, THE CONTRACTOR SHALL MAINTAIN THE FLOW OF TRAFFIC ON ANY INTERSECTION WITHIN THE WORK AREA.
22. CONTRACTOR SHALL NOTIFY ARLINGTON COUNTY DES TWO WEEKS PRIOR TO STARTING CONSTRUCTION.
23. TEMPORARY SIGNS AND DEVICES SHOULD NOT BE PLACED WHERE THEY WILL OBSTRUCT PEDESTRIAN PASSAGE ON A SIDEWALK EXCEPT WHERE SUCH SIGNS AND DEVICES ARE INTENDED TO CLOSE SUCH A SIDEWALK SEGMENT.
24. RESTRICTED PARKING SHALL BE COORDINATED/PROVIDED ALONG EXISTING JOHNSON ST. NEAR CONSTRUCTION AREA.



DEPARTMENT OF ENVIRONMENTAL SERVICES
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 FAX: 703.228.3606

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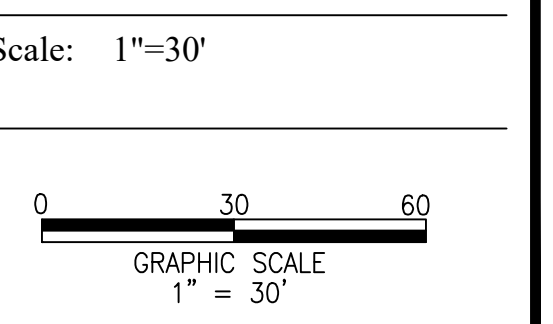
APPROVALS	DATE
Amy Pflaum QUALITY CONTROL ENGINEER	9/11/2020
Kamal Taktak CONSTRUCTION MANAGEMENT SUPERVISOR	8.31.20
[Signature] WATER, SEWER, STREETS BUREAU CHIEF	09.16.2020
Dennis M. Leach TRANSPORTATION DIRECTOR	09/11/20
Gabriela Koch PROJECT MANAGER	August 24, 2020

REVISIONS	DATE






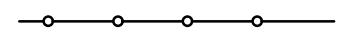
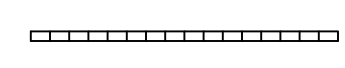
Project Name and Location
WASHINGTON BOULEVARD & 13TH STREET NORTH IMPROVEMENTS
 MAINTENANCE OF TRAFFIC PLAN-PHASE 1
 WASHINGTON BLVD. FROM NORTH KIRKWOOD ROAD TO FAIRFAX DRIVE
 13TH STREET NORTH FROM WASHINGTON BLVD. TO NORTH JACKSON STREET & NORTH JOHNSON STREET FROM 13TH STREET NORTH TO 150' WEST

Designed: ABB
 Drawn: CDL
 Checked: MSD
 Miss Utility Transmittal #: N/A

Filename: 27-MOT-PHASE 127-MOT-PHASE 1.LWG
 Path: \\ARL\REVISED APPROVED PLANS
 Plotted: September 17, 2020
 Plotted by: CL



MOT LEGEND


-  PEDESTRIAN PATHWAY
-  CONSTRUCTION ZONE
-  TRAFFIC FLOW ARROW
-  CHANNELIZING DEVICE
TRANSITION SPACING 20' (TYP.)
TRAVELWAY SPACING 40' (TYP.)
-  TRAFFIC CONTROL SIGN
-  CONSTRUCTION FENCE
-  LONGITUDINAL CHANNELIZING DEVICE (PORTABLE WATER-FILLED)

SEQUENCE OF CONSTRUCTION NOTES:

- PHASE 2 (2 MONTHS):**
- BUILD NEW DVP/COMCAST INFRASTRUCTURE. REMOVE/CAP OLD SERVICE LINES TO AVOID CONFLICTS WITH INFRASTRUCTURE.
 - INSTALL ELECTRIC VAULT E-2 IN 13TH STREET NORTH
 - CONNECT NEW STORM SEWER WATERLINE INTO EX. COUNTY STORM/WATERLINE NETWORK AT JOHNSON STREET AND 13TH STREET.

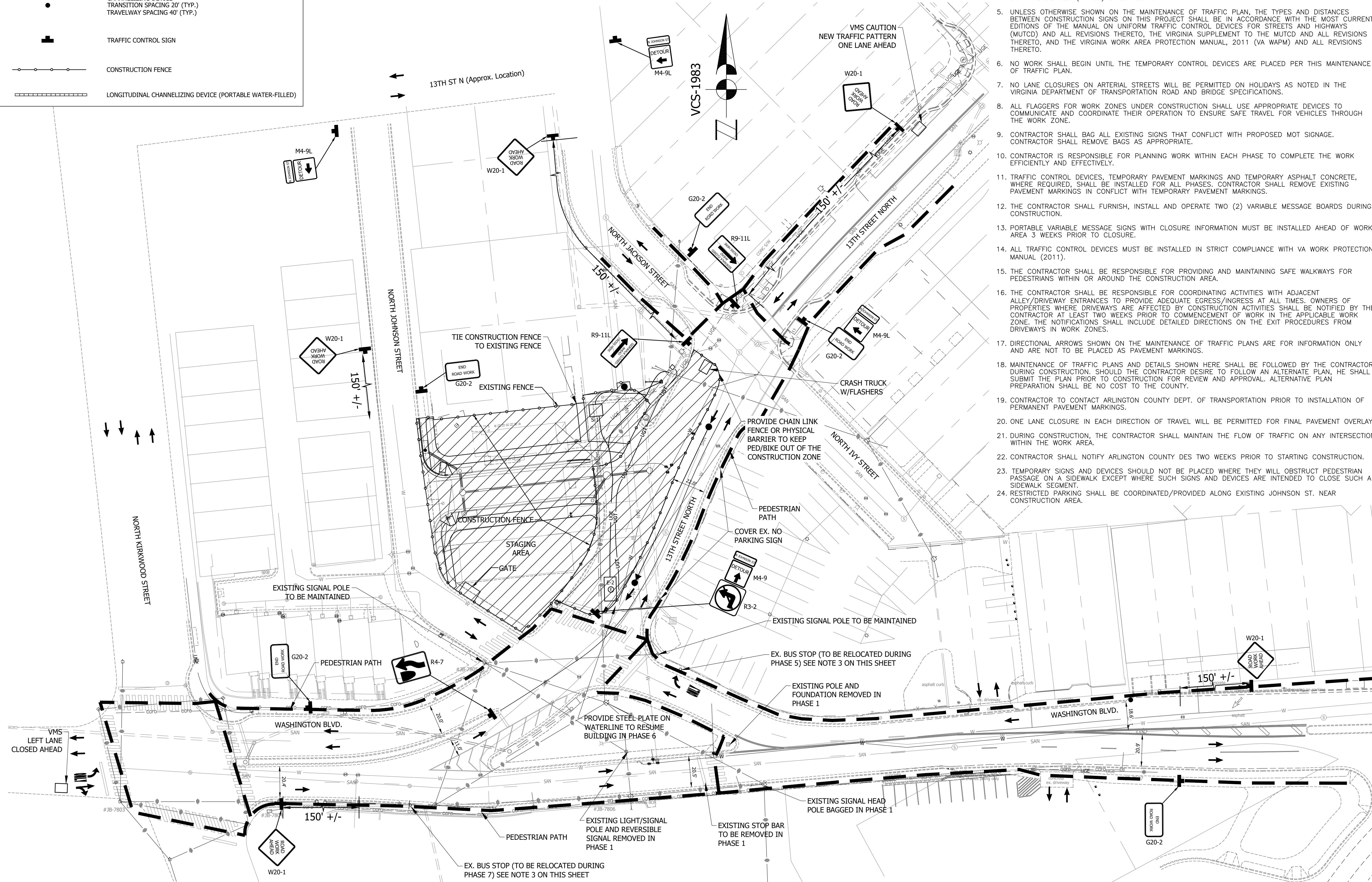
WORK HOURS:

- IN ARLINGTON RIGHT-OF-WAY - 9 AM TO 4 PM (MON.-FRI.)
 - IN VDOT RIGHT-OF-WAY - 9:30 AM TO 3 PM (MON.-THUR.) AND 9:30 AM TO 2 PM (FRI.)
- ALL LANES SHALL BE FULLY OPEN TO TRAFFIC OUTSIDE THE ABOVE HOURS UNLESS SPECIFIED OTHERWISE IN THE MAINTENANCE OF TRAFFIC PLANS.

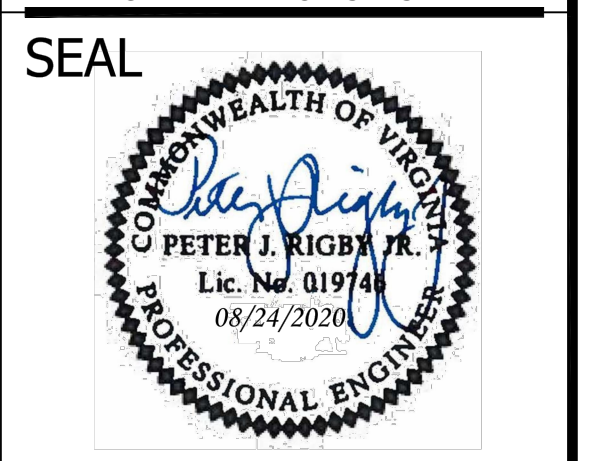
 CONTRACTOR TO MAINTAIN ACCESSIBLE ROUTE. EXISTING HANDICAP RAMPS TO BE MAINTAINED OR TEMPORARY RAMPS TO BE PROVIDED TO ADEQUATELY SUB-PHASE CONSTRUCTION OF NEW SIDEWALK FACILITIES.

MOT NOTES:

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- PARKING SHALL BE RESTRICTED BY THE COUNTY AS PART OF THE RIGHT-OF-WAY PERMIT. CONTACT DES-PERMITTING SECTION (703-228-4798) AT LEAST 72 HOURS PRIOR TO COMMENCEMENT OF WORK.
- THE CONTRACTOR SHALL COORDINATE WITH ARLINGTON COUNTY TRANSIT BUREAU (703-228-3049) AT LEAST 4 WEEKS PRIOR TO COMMENCEMENT OF WORK FOR APPROVAL, IF TRANSIT IS AFFECTED.
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- CONTRACTOR TO CONTACT ARLINGTON COUNTY DEPT. OF TRANSPORTATION PRIOR TO INSTALLATION OF PERMANENT PAVEMENT MARKINGS.
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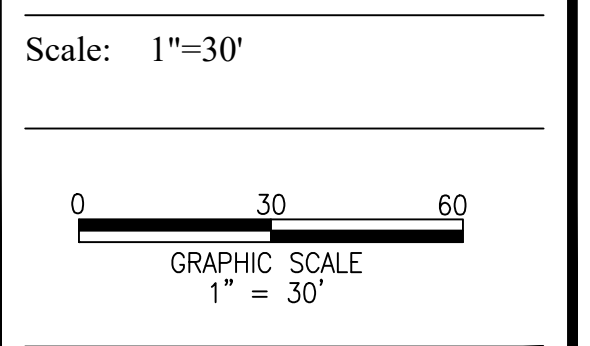
APPROVALS	DATE
<i>Amy Pflaum</i> QUALITY CONTROL ENGINEER	9/11/2020
<i>Kamal Taktak</i> CONSTRUCTION MANAGEMENT SUPERVISOR	8.31.20
<i>[Signature]</i> WATER, SEWER, STREETS BUREAU CHIEF	09.16.2020
<i>Dennis M. Leach</i> TRANSPORTATION DIRECTOR	09/11/20
<i>Gabriela Koch</i> PROJECT MANAGER	August 24, 2020

REVISIONS	DATE

Project Name and Location
WASHINGTON BOULEVARD & 13TH STREET NORTH IMPROVEMENTS
MAINTENANCE OF TRAFFIC PLAN-PHASE 2
 WASHINGTON BLVD. FROM NORTH KIRKWOOD ROAD TO FAIRFAX DRIVE
 13TH STREET NORTH FROM WASHINGTON BLVD. TO NORTH JACKSON STREET & NORTH JOHNSON STREET FROM 13TH STREET NORTH TO 150' WEST







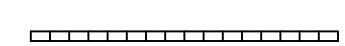
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 Checked: MSD
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 Plotted: September 17, 2020
 Plotted by: CL



Sheet
28 OF 38

MOT LEGEND


-  PEDESTRIAN PATHWAY
-  CONSTRUCTION ZONE
-  TRAFFIC FLOW ARROW
-  CHANNELIZING DEVICE
TRANSITION SPACING 20' (TYP.)
TRAVELWAY SPACING 40' (TYP.)
-  TRAFFIC CONTROL SIGN
-  CONSTRUCTION FENCE
-  LONGITUDINAL CHANNELIZING DEVICE (PORTABLE WATER-FILLED)

SEQUENCE OF CONSTRUCTION NOTES:

- PHASE 3 (2 MONTHS):**
- INSTALL TEMPORARY YELLOW CENTERLINE MARKING ON 13TH STREET AND NARROW SOUTHBOUND LANES.
 - DEMOLISH A PORTION OF EXISTING MEDIAN IN WASHINGTON BLVD AND INSTALL NEW MEDIAN AND STORM SEWER AS SHOWN.

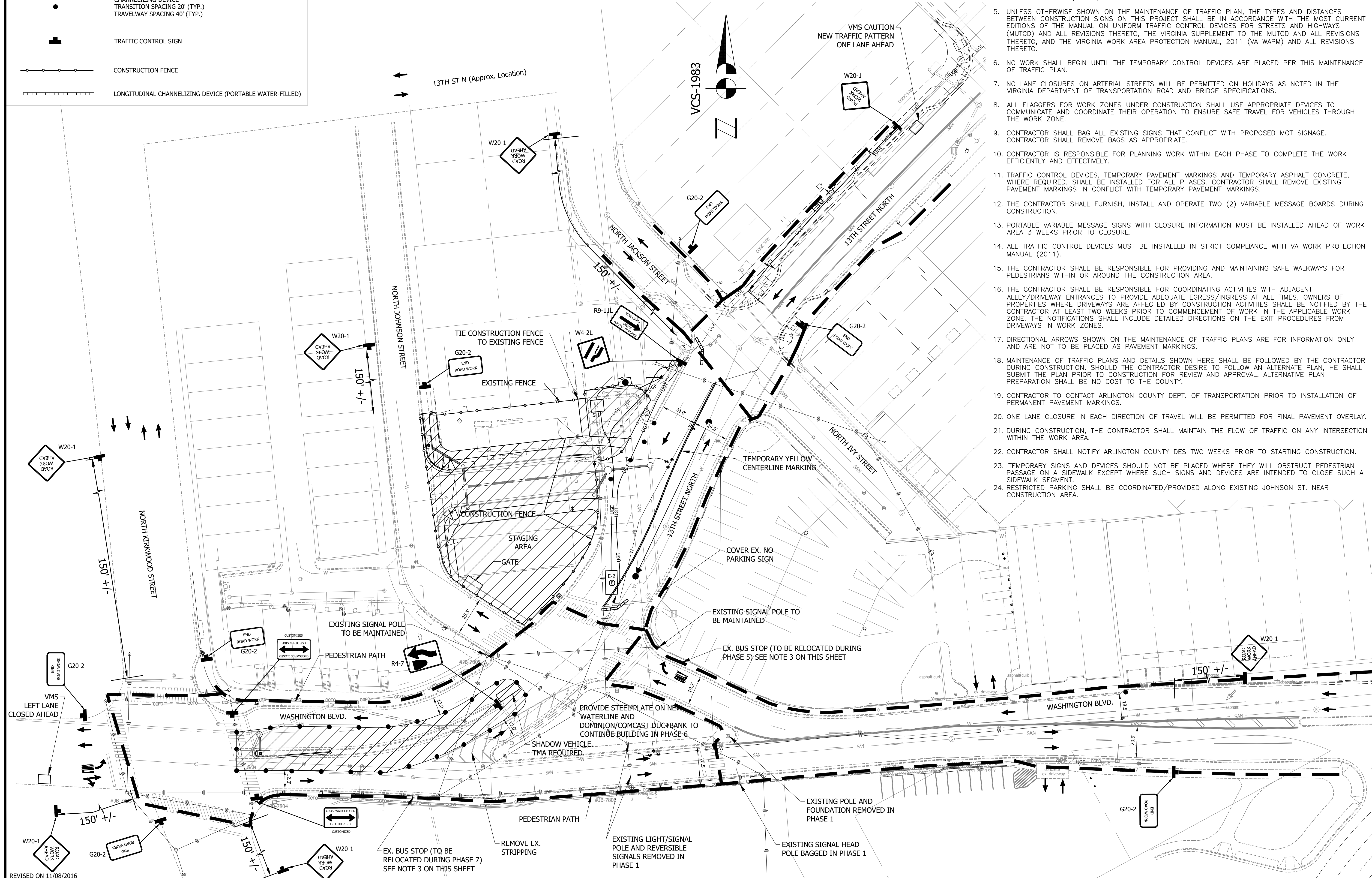
WORK HOURS:

- IN ARLINGTON RIGHT-OF-WAY - 9 AM TO 4 PM (MON.-FRI.)
 - IN VDOT RIGHT-OF-WAY - 9:30 AM TO 3 PM (MON.-THUR.) AND 9:30 AM TO 2 PM (FRI.)
- ALL LANES SHALL BE FULLY OPEN TO TRAFFIC OUTSIDE THE ABOVE HOURS UNLESS SPECIFIED OTHERWISE IN THE MAINTENANCE OF TRAFFIC PLANS.

 CONTRACTOR TO MAINTAIN ACCESSIBLE ROUTE. EXISTING HANDICAP RAMPS TO BE MAINTAINED OR TEMPORARY RAMPS TO BE PROVIDED TO ADEQUATELY SUB-PHASE CONSTRUCTION OF NEW SIDEWALK FACILITIES.

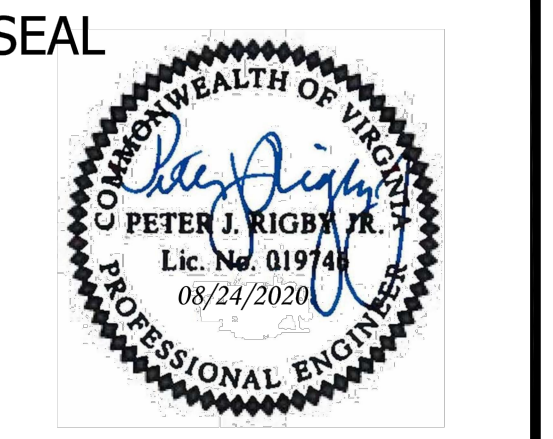
MOT NOTES:

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- PARKING SHALL BE RESTRICTED BY THE COUNTY AS PART OF THE RIGHT-OF-WAY PERMIT. CONTACT DES-PERMITTING SECTION (703-228-4798) AT LEAST 72 HOURS PRIOR TO COMMENCEMENT OF WORK.
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- CONTRACTOR SHALL BAG ALL EXISTING SIGNS THAT CONFLICT WITH PROPOSED MOT SIGNAGE. CONTRACTOR SHALL REMOVE BAGS AS APPROPRIATE.
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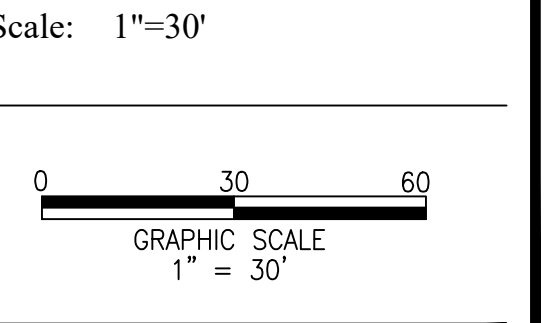
APPROVALS	DATE
<i>Amy Pflaum</i> QUALITY CONTROL ENGINEER	9/11/2020
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<i>Dennis M. Leach</i> TRANSPORTATION DIRECTOR	09/11/20
<i>Gabriela Koch</i> PROJECT MANAGER	August 24, 2020

REVISIONS	DATE

Project Name and Location
 WASHINGTON BOULEVARD & 13TH STREET NORTH IMPROVEMENTS
 MAINTENANCE OF TRAFFIC PLAN-PHASE 3
 WASHINGTON BLVD. FROM NORTH KIRKWOOD ROAD TO FAIRFAX DRIVE
 13TH STREET NORTH FROM WASHINGTON BLVD. TO NORTH JACKSON STREET & NORTH JOHNSON STREET FROM 13TH STREET NORTH TO 150' WEST

Designed: ABB
 Drawn: CDL
 Checked: MSD
 Miss Utility Transmittal #: N/A

Filename: 27-MOT-PHASE 127-MOT-PHASE 127V
 Path: Q:\DATA\2023\DESIGN_CAD\90100 PCT
 ARCHIVE/REVISED APPROVED PLANS
 Plotted: September 17, 2020
 Plotted by: CL



Sheet **29 OF 38**

MOT LEGEND

- PEDESTRIAN PATHWAY
- CONSTRUCTION ZONE
- TRAFFIC FLOW ARROW
- CHANNELIZING DEVICE
TRANSITION SPACING 20' (TYP.)
TRAVELWAY SPACING 40' (TYP.)
- TRAFFIC CONTROL SIGN
- CONSTRUCTION FENCE
- LONGITUDINAL CHANNELIZING DEVICE
(PORTABLE WATER-FILLED)

SEQUENCE OF CONSTRUCTION NOTES:

PHASE 4 (4 MONTHS)

1. EXISTING SIGNAL LIGHTS ON NORTHBOUND AND SOUTHBOUND ON 13TH STREET NORTH WILL BE REMOVED/BAGGED. EXISTING SIGNAL LIGHTS ON WESTBOUND WASHINGTON BLVD TO BE MAINTAINED.
2. REROUTE TRAFFIC THRU NEW N JOHNSON STREET.
3. CONTRACTOR SHALL COORDINATE WITH DOMINION ENERGY AND ALLOW A MINIMUM OF 2 MONTHS FOR DOMINION ENERGY TO BEGIN AND COMPLETE THE INSTALLATION OF TWO TERMINAL POLES DURING THIS PHASE.
4. BUILD NEW CURB & GUTTER AND SIDEWALKS ON WEST SIDE OF 13TH STREET NORTH. ROUTE Peds/BIKES TO EAST SIDE OF 13TH STREET NORTH. PROVIDE TEMPORARY HARD SURFACE TRANSITION FROM NEW SIDEWALK ON THE WEST SIDE OF 13TH STREET NORTH TO EXISTING GRADE.
5. BUILD A PORTION OF NEW STORM SEWER AND REMOVE EX. STORM SEWER IN THE ISLAND.
6. DEMOLISH/ABANDON EX STORM SEWER LOCATED AT PORK CHOP ISLAND.
7. STARTING AT TERMINAL POLE ON THE SOUTHSIDE OF WASHINGTON BLVD BUILD A PORTION OF DOMINION/COMCAST DUCTBANK ON WASHINGTON BLVD.
8. INSTALL FULL DEPTH PAVEMENT IN AREA WHERE MEDIAN WAS DEMOLISHED TO PREPARE FOR TWO LANE TRAFFIC WESTBOUND IN PHASE 5.

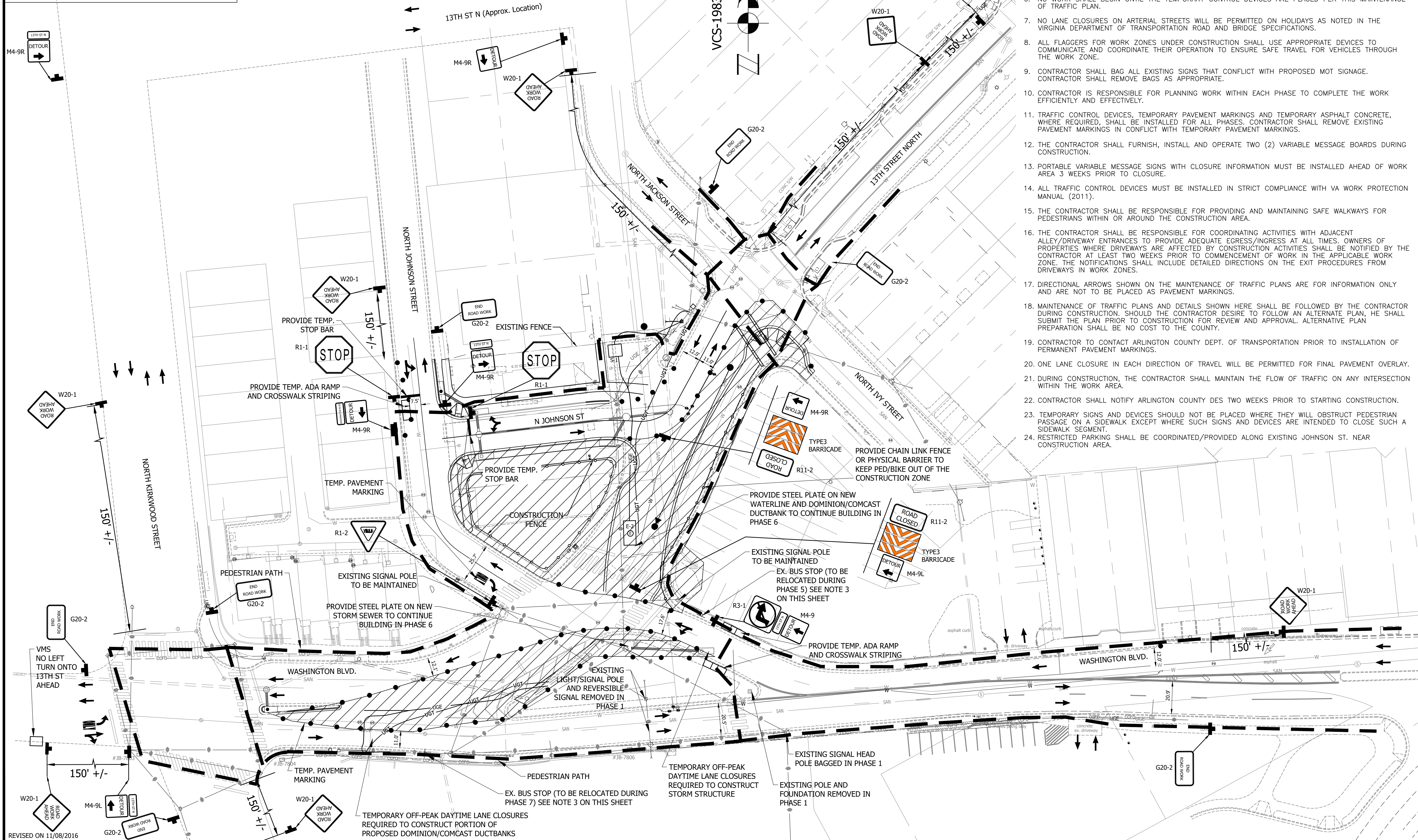
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MOT NOTES:

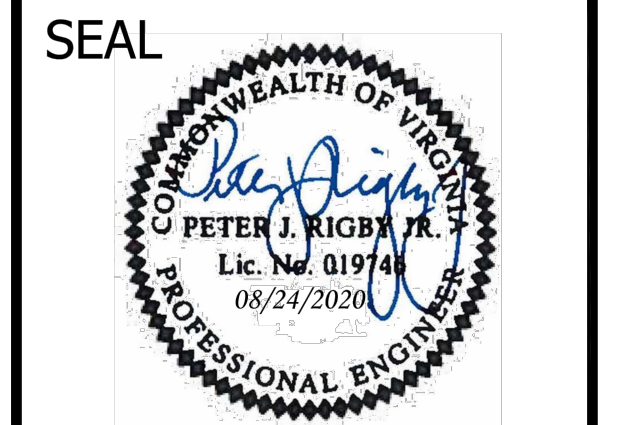
1. IT IS NOT THE INTENT OF THE MAINTENANCE OF TRAFFIC PLAN TO ENUMERATE EVERY DETAIL WHICH MUST BE CONSIDERED IN CONSTRUCTION, BUT ONLY TO SHOW THE GENERAL HANDLING OF TRAFFIC; UNLESS OTHERWISE APPROVED OR DIRECTED BY THE ENGINEER, THE CONTRACTOR SHALL PLAN AND EXECUTE THE WORK IN ACCORDANCE WITH THIS TEMPORARY TRAFFIC CONTROL PLAN.
2. PARKING SHALL BE RESTRICTED BY THE COUNTY AS PART OF THE RIGHT-OF-WAY PERMIT. CONTACT DES-PERMITTING SECTION (703-228-4798) AT LEAST 72 HOURS PRIOR TO COMMENCEMENT OF WORK.
3. THE CONTRACTOR SHALL COORDINATE WITH ARLINGTON COUNTY TRANSIT BUREAU (703-228-3049) AT LEAST 4 WEEKS PRIOR TO COMMENCEMENT OF WORK FOR APPROVAL, IF TRANSIT IS AFFECTED.
4. ALL SIGNS AND TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) LATEST EDITION.
5. UNLESS OTHERWISE SHOWN ON THE MAINTENANCE OF TRAFFIC PLAN, THE TYPES AND DISTANCES BETWEEN CONSTRUCTION SIGNS ON THIS PROJECT SHALL BE IN ACCORDANCE WITH THE MOST CURRENT EDITIONS OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS (MUTCD) AND ALL REVISIONS THERETO, THE VIRGINIA SUPPLEMENT TO THE MUTCD AND ALL REVISIONS THERETO, AND THE VIRGINIA WORK AREA PROTECTION MANUAL, 2011 (VA WAPM) AND ALL REVISIONS THERETO.
6. NO WORK SHALL BEGIN UNTIL THE TEMPORARY CONTROL DEVICES ARE PLACED PER THIS MAINTENANCE OF TRAFFIC PLAN.
7. NO LANE CLOSURES ON ARTERIAL STREETS WILL BE PERMITTED ON HOLIDAYS AS NOTED IN THE VIRGINIA DEPARTMENT OF TRANSPORTATION ROAD AND BRIDGE SPECIFICATIONS.
8. ALL FLAGGERS FOR WORK ZONES UNDER CONSTRUCTION SHALL USE APPROPRIATE DEVICES TO COMMUNICATE AND COORDINATE THEIR OPERATION TO ENSURE SAFE TRAVEL FOR VEHICLES THROUGH THE WORK ZONE.
9. CONTRACTOR SHALL BAG ALL EXISTING SIGNS THAT CONFLICT WITH PROPOSED MOT SIGNAGE. CONTRACTOR SHALL REMOVE BAGS AS APPROPRIATE.
10. CONTRACTOR IS RESPONSIBLE FOR PLANNING WORK WITHIN EACH PHASE TO COMPLETE THE WORK EFFICIENTLY AND EFFECTIVELY.
11. TRAFFIC CONTROL DEVICES, TEMPORARY PAVEMENT MARKINGS AND TEMPORARY ASPHALT CONCRETE, WHERE REQUIRED, SHALL BE INSTALLED FOR ALL PHASES. CONTRACTOR SHALL REMOVE EXISTING PAVEMENT MARKINGS IN CONFLICT WITH TEMPORARY PAVEMENT MARKINGS.
12. THE CONTRACTOR SHALL FURNISH, INSTALL AND OPERATE TWO (2) VARIABLE MESSAGE BOARDS DURING CONSTRUCTION.
13. PORTABLE VARIABLE MESSAGE SIGNS WITH CLOSURE INFORMATION MUST BE INSTALLED AHEAD OF WORK AREA 3 WEEKS PRIOR TO CLOSURE.
14. ALL TRAFFIC CONTROL DEVICES MUST BE INSTALLED IN STRICT COMPLIANCE WITH VA WORK PROTECTION MANUAL (2011).
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING SAFE WALKWAYS FOR PEDESTRIANS WITHIN OR AROUND THE CONSTRUCTION AREA.
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ACTIVITIES WITH ADJACENT ALLEY/DRIVEWAY ENTRANCES TO PROVIDE ADEQUATE EGRESS/INGRESS AT ALL TIMES. OWNERS OF PROPERTIES WHERE DRIVEWAYS ARE AFFECTED BY CONSTRUCTION ACTIVITIES SHALL BE NOTIFIED BY THE CONTRACTOR AT LEAST TWO WEEKS PRIOR TO COMMENCEMENT OF WORK IN THE APPLICABLE WORK ZONE. THE NOTIFICATIONS SHALL INCLUDE DETAILED DIRECTIONS ON THE EXIT PROCEDURES FROM DRIVEWAYS IN WORK ZONES.
17. DIRECTIONAL ARROWS SHOWN ON THE MAINTENANCE OF TRAFFIC PLANS ARE FOR INFORMATION ONLY AND ARE NOT TO BE PLACED AS PAVEMENT MARKINGS.
18. MAINTENANCE OF TRAFFIC PLANS AND DETAILS SHOWN HERE SHALL BE FOLLOWED BY THE CONTRACTOR DURING CONSTRUCTION; SHOULD THE CONTRACTOR DESIRE TO FOLLOW AN ALTERNATE PLAN, HE SHALL SUBMIT THE PLAN PRIOR TO CONSTRUCTION FOR REVIEW AND APPROVAL. ALTERNATIVE PLAN PREPARATION SHALL BE NO COST TO THE COUNTY.
19. CONTRACTOR TO CONTACT ARLINGTON COUNTY DEPT. OF TRANSPORTATION PRIOR TO INSTALLATION OF PERMANENT PAVEMENT MARKINGS.
20. ONE LANE CLOSURE IN EACH DIRECTION OF TRAVEL WILL BE PERMITTED FOR FINAL PAVEMENT OVERLAY.
21. DURING CONSTRUCTION, THE CONTRACTOR SHALL MAINTAIN THE FLOW OF TRAFFIC ON ANY INTERSECTION WITHIN THE WORK AREA.
22. CONTRACTOR SHALL NOTIFY ARLINGTON COUNTY DES TWO WEEKS PRIOR TO STARTING CONSTRUCTION.
23. TEMPORARY SIGNS AND DEVICES SHOULD NOT BE PLACED WHERE THEY WILL OBSTRUCT PEDESTRIAN PASSAGE ON A SIDEWALK EXCEPT WHERE SUCH SIGNS AND DEVICES ARE INTENDED TO CLOSE SUCH A SIDEWALK SEGMENT.
24. RESTRICTED PARKING SHALL BE COORDINATED/PROVIDED ALONG EXISTING JOHNSON ST. NEAR CONSTRUCTION AREA.



REVISED ON 11/08/2016
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DEPARTMENT OF ENVIRONMENTAL SERVICES
 FACILITIES & ENGINEERING DIVISION
 ENGINEERING BUREAU
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 ARLINGTON, VA 22201
 PHONE: 703.228.3629
 FAX: 703.228.3606
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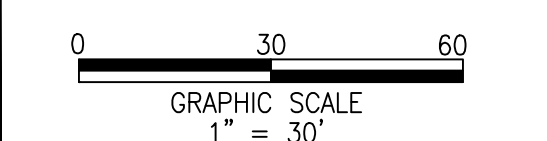


APPROVALS	DATE
Amy Pflaum QUALITY CONTROL ENGINEER	9/11/2020
Kamal Takab CONSTRUCTION MANAGEMENT SUPERVISOR	8.31.20
[Signature] WATER, SEWER, STREETS BUREAU CHIEF	09.16.2020
Dennis M. Leach TRANSPORTATION DIRECTOR	09/11/20
Gabriela Koch PROJECT MANAGER	August 24, 2020

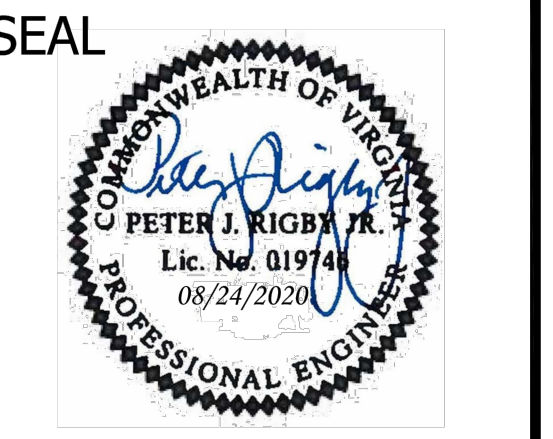
REVISIONS	DATE

Project Name and Location
WASHINGTON BOULEVARD & 13TH STREET NORTH IMPROVEMENTS
 MAINTENANCE OF TRAFFIC PLAN-PHASE 4
 WASHINGTON BLVD. FROM NORTH KIRKWOOD ROAD TO FAIRFAX DRIVE
 13TH STREET NORTH FROM WASHINGTON BLVD. TO NORTH JACKSON STREET & NORTH JOHNSON STREET FROM 13TH STREET NORTH TO 150' WEST

Designed: ABB
 Drawn: CDL
 Checked: MSD
 Miss Utility Transmittal #: N/A
 Filename: 27-MOT-PHASE 127-MOT-PHASE 1.DWG
 Path: \\ARL\REVISED APPROVED PLANS
 Plotted: September 17, 2020
 Plotted by: CL
 Scale: 1"=30'



Sheet
29AOF 38



APPROVALS	DATE
Amy Pflaum QUALITY CONTROL ENGINEER	9/11/2020
Kamal Takab CONSTRUCTION MANAGEMENT SUPERVISOR	8.31.20
[Signature] WATER, SEWER, STREETS BUREAU CHIEF	09.16.2020
Dennis M. Leach TRANSPORTATION DIRECTOR	09/11/20
Gabriela Koch PROJECT MANAGER	August 24, 2020

REVISIONS	DATE

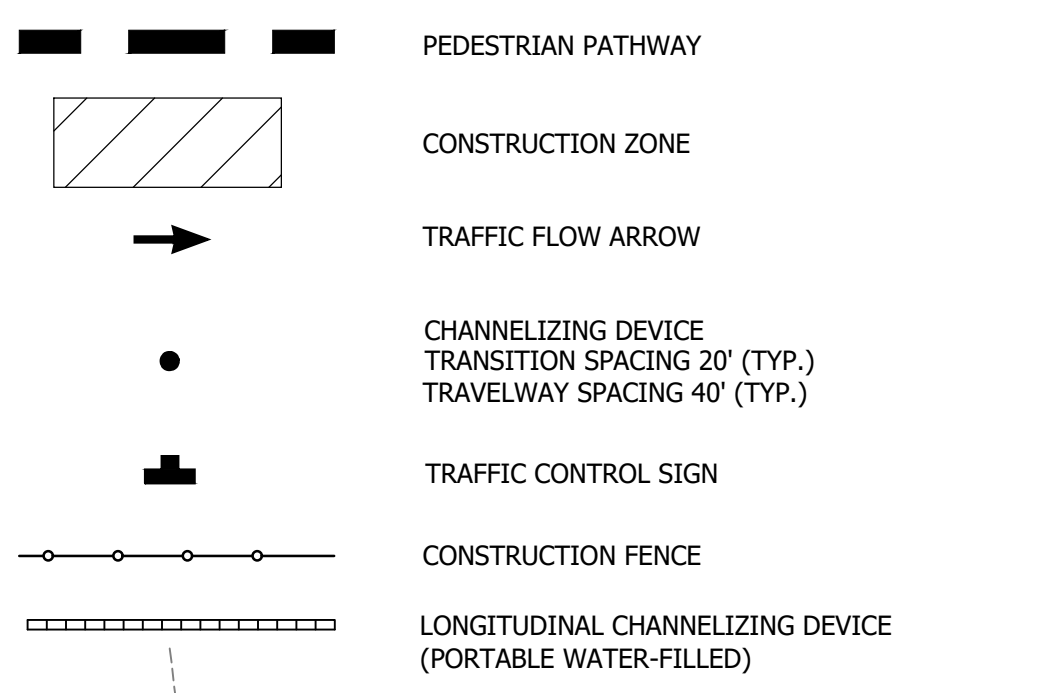
Project Name and Location
WASHINGTON BOULEVARD & 13TH STREET NORTH IMPROVEMENTS
MAINTENANCE OF TRAFFIC PLAN-PHASE 5
WASHINGTON BLVD. FROM NORTH KIRKWOOD ROAD TO FAIRFAX DRIVE
13TH STREET NORTH FROM WASHINGTON BLVD. TO NORTH JACKSON STREET & NORTH JOHNSON STREET FROM 13TH STREET NORTH TO 150' WEST

Designed: ABB
Drawn: CDL
Checked: MSD
Miss Utility Transmittal #: N/A

Filename: 27-MOT-PHASE 1A27-MOT-PHASE 1.DWG
Path: \\DATA\B023\DESIGN_CAD\09100_PCT_ARCH\REVISED APPROVED PLANS
Plotted: September 17, 2020
Plotted by: CL

Scale: 1"=30'
GRAPHIC SCALE
1" = 30'

MOT LEGEND



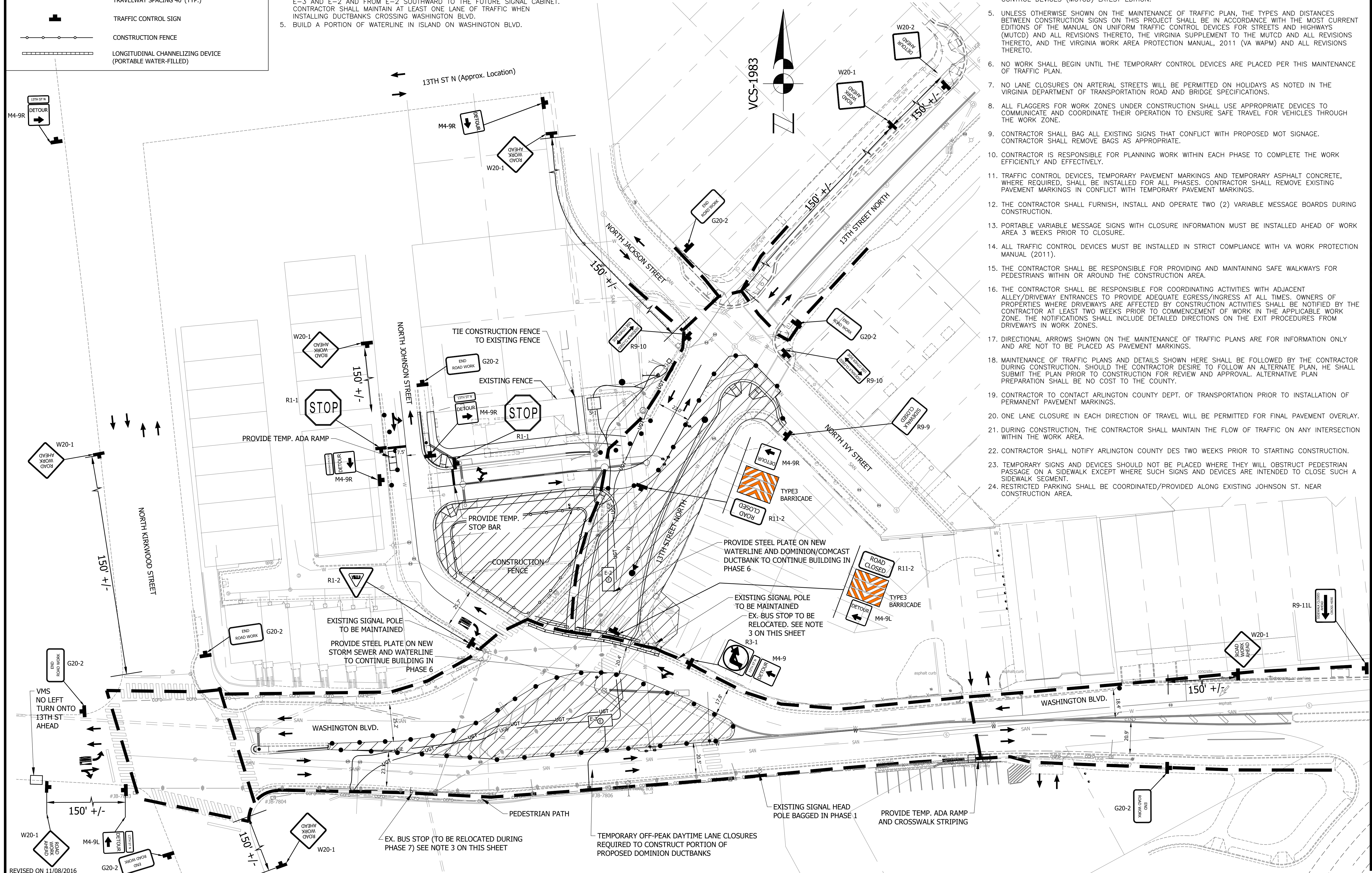
SEQUENCE OF CONSTRUCTION NOTES:

- PHASE 5 (3 MONTHS):**
1. MAINTAIN SIGNAL CONFIGURATION FROM PHASE 4.
 2. CONTRACTOR SHALL COORDINATE WITH DOMINION ENERGY AND ALLOW A MINIMUM OF 3 MONTHS FOR DOMINION ENERGY TO INSTALL VAULT E-1 AND SWITCH, AND RUN WIRES BETWEEN THEM DURING THIS PHASE.
 3. BUILD NEW CURB & GUTTER AND SIDEWALKS ON THE EAST SIDE OF 13TH STREET NORTH. ROUTE Peds/BIKES TO THE WEST SIDE OF 13TH STREET NORTH. CONTRACTOR SHALL PROVIDE LONGITUDINAL CHANNELIZING DEVICE FOR PED/BIKE CROSSING 13TH STREET NORTH AT WASHINGTON BLVD.
 4. INSTALL VAULT E-2 AND COMPLETE DOMINION/COMCAST DUCTBANKS BETWEEN E-3 AND E-2 AND FROM E-2 SOUTHWARD TO THE FUTURE SIGNAL CABINET. CONTRACTOR SHALL MAINTAIN AT LEAST ONE LANE OF TRAFFIC WHEN INSTALLING DUCTBANKS CROSSING WASHINGTON BLVD.
 5. BUILD A PORTION OF WATERLINE IN ISLAND ON WASHINGTON BLVD.

WORK HOURS:

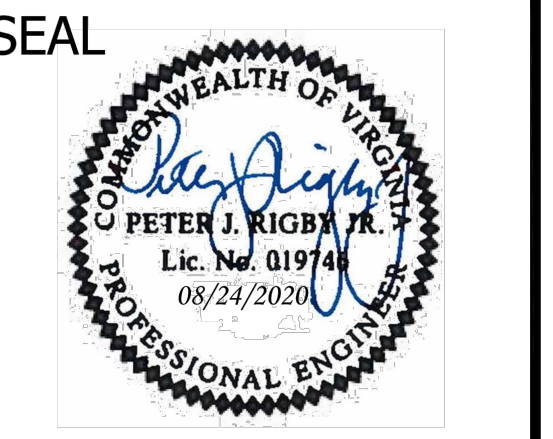
1. IN ARLINGTON RIGHT-OF-WAY - 9 AM TO 4 PM (MON.-FRI.)
 2. IN VDOT RIGHT-OF-WAY - 9:30 AM TO 3 PM (MON.-THUR.) AND 9:30 AM TO 2 PM (FRI.)
- ALL LANES SHALL BE FULLY OPEN TO TRAFFIC OUTSIDE THE ABOVE HOURS UNLESS SPECIFIED OTHERWISE IN THE MAINTENANCE OF TRAFFIC PLANS.

CONTRACTOR TO MAINTAIN ACCESSIBLE ROUTE. EXISTING HANDICAP RAMPS TO BE MAINTAINED OR TEMPORARY RAMPS TO BE PROVIDED TO ADEQUATELY SUB-PHASE CONSTRUCTION OF NEW SIDEWALK FACILITIES.



MOT NOTES:

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5. UNLESS OTHERWISE SHOWN ON THE MAINTENANCE OF TRAFFIC PLAN, THE TYPES AND DISTANCES BETWEEN CONSTRUCTION SIGNS ON THIS PROJECT SHALL BE IN ACCORDANCE WITH THE MOST CURRENT EDITIONS OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS (MUTCD) AND ALL REVISIONS THERETO, THE VIRGINIA SUPPLEMENT TO THE MUTCD AND ALL REVISIONS THERETO, AND THE VIRGINIA WORK AREA PROTECTION MANUAL, 2011 (VA WAPM) AND ALL REVISIONS THERETO.
6. NO WORK SHALL BEGIN UNTIL THE TEMPORARY CONTROL DEVICES ARE PLACED PER THIS MAINTENANCE OF TRAFFIC PLAN.
7. NO LANE CLOSURES ON ARTERIAL STREETS WILL BE PERMITTED ON HOLIDAYS AS NOTED IN THE VIRGINIA DEPARTMENT OF TRANSPORTATION ROAD AND BRIDGE SPECIFICATIONS.
8. ALL FLAGGERS FOR WORK ZONES UNDER CONSTRUCTION SHALL USE APPROPRIATE DEVICES TO COMMUNICATE AND COORDINATE THEIR OPERATION TO ENSURE SAFE TRAVEL FOR VEHICLES THROUGH THE WORK ZONE.
9. CONTRACTOR SHALL BAG ALL EXISTING SIGNS THAT CONFLICT WITH PROPOSED MOT SIGNAGE. CONTRACTOR SHALL REMOVE BAGS AS APPROPRIATE.
10. CONTRACTOR IS RESPONSIBLE FOR PLANNING WORK WITHIN EACH PHASE TO COMPLETE THE WORK EFFICIENTLY AND EFFECTIVELY.
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22. CONTRACTOR SHALL NOTIFY ARLINGTON COUNTY DES TWO WEEKS PRIOR TO STARTING CONSTRUCTION.
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24. RESTRICTED PARKING SHALL BE COORDINATED/PROVIDED ALONG EXISTING JOHNSON ST. NEAR CONSTRUCTION AREA.



APPROVALS	DATE
<i>Amy Pflaum</i> QUALITY CONTROL ENGINEER	9/11/2020
<i>Kamal Taktak</i> CONSTRUCTION MANAGEMENT SUPERVISOR	8.31.20
<i>[Signature]</i> WATER, SEWER, STREETS BUREAU CHIEF	09.16.2020
<i>Dennis M. Leach</i> TRANSPORTATION DIRECTOR	09/11/20
<i>Gabriela Koch</i> PROJECT MANAGER	August 24, 2020

REVISIONS	DATE

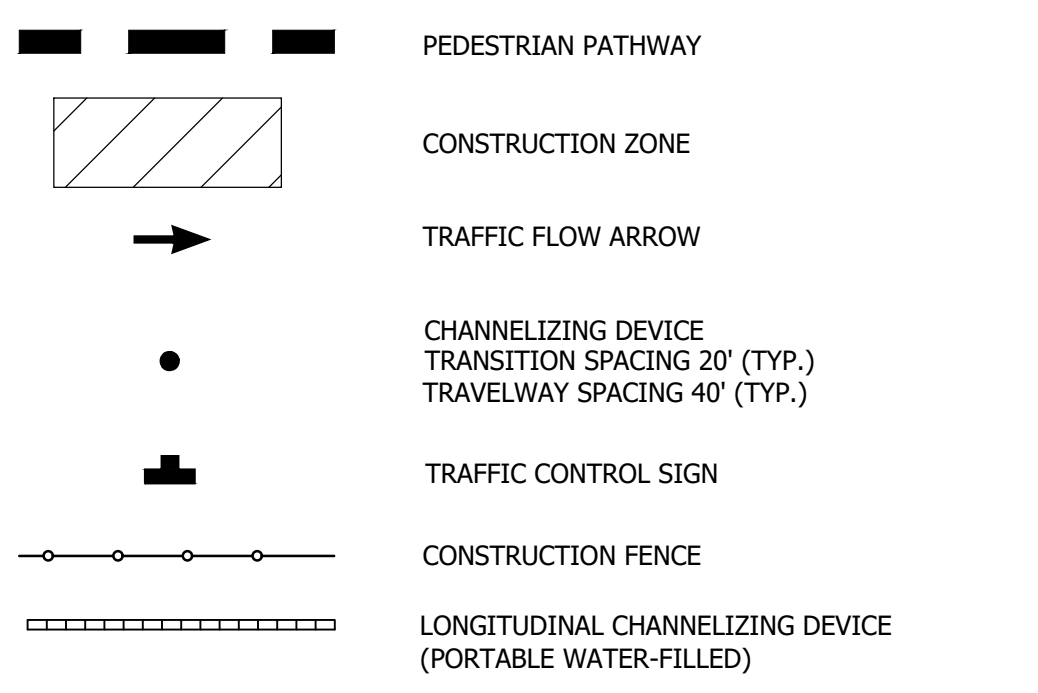
Project Name and Location
WASHINGTON BOULEVARD & 13TH STREET NORTH IMPROVEMENTS
MAINTENANCE OF TRAFFIC PLAN-PHASE 6
WASHINGTON BLVD. FROM NORTH KIRKWOOD ROAD TO FAIRFAX DRIVE
13TH STREET NORTH FROM WASHINGTON BLVD. TO NORTH JACKSON STREET & NORTH JOHNSON STREET FROM 13TH STREET NORTH TO 150' WEST

Designed: ABB
Drawn: CDL
Checked: MSD
Miss Utility Transmittal #: N/A

Filename: 27-MOT-PHASE 1B27-MOT-PHASE 1.DWG
Path: \\DATA\B27\DESIGN_CAD\B27\100 PCT ARCH\REVISED APPROVED PLANS
Plotted: September 17, 2020
Plotted by: CL

Scale: 1"=30'
GRAPHIC SCALE
1" = 30'

MOT LEGEND



SEQUENCE OF CONSTRUCTION NOTES:

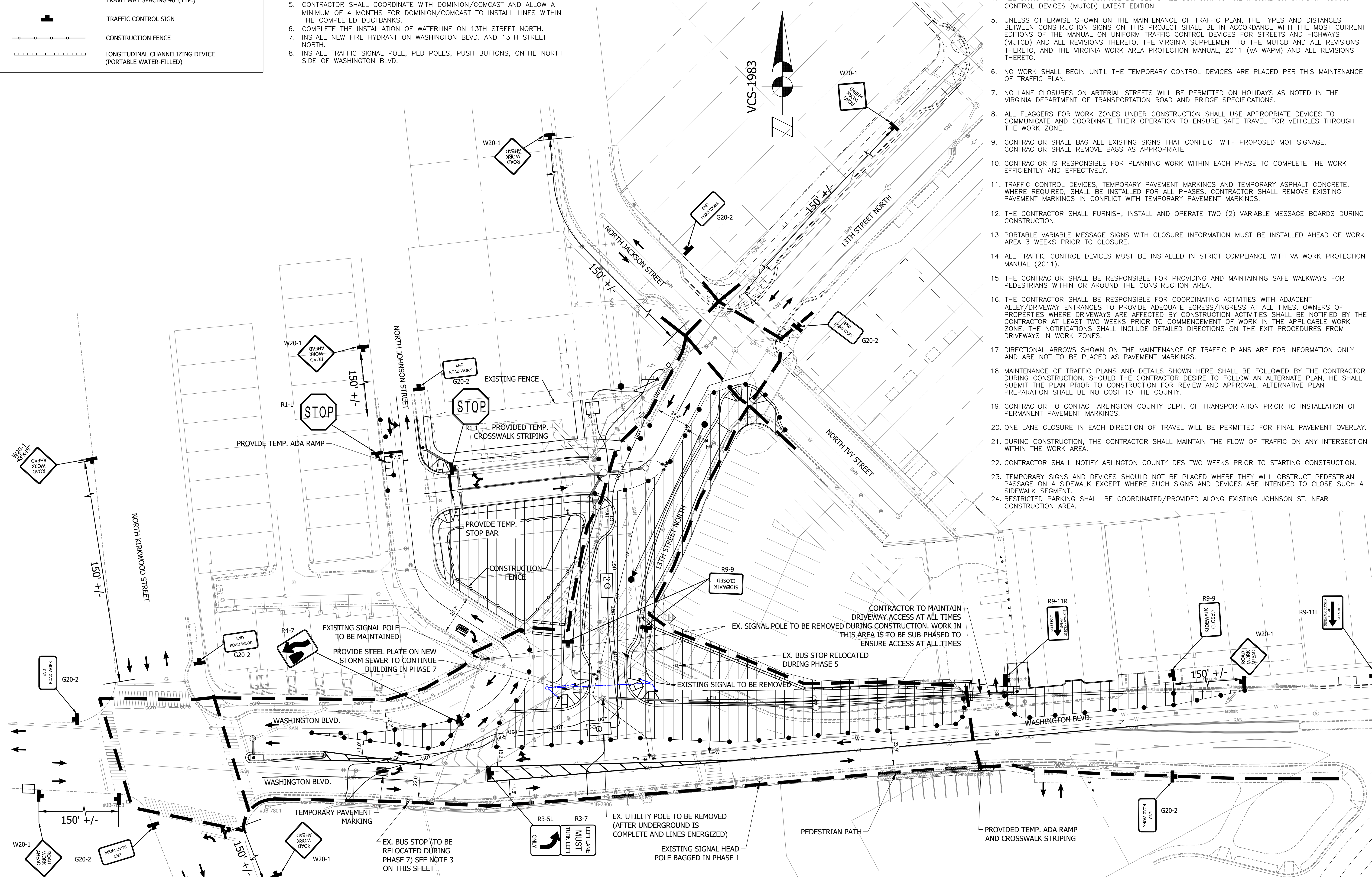
- PHASE 6 (4 MONTHS)**
- INSTALL TEMPORARY PAVEMENT MARKING PER PLAN. THE EXISTING SIGNALIZATION SHALL BE INACTIVE DURING THIS PHASE AND CONTRACTOR SHALL BAG/REMOVE SIGNAL POLES AS INDICATED.
 - BUILD STORM SEWER ON NORTH SIDE OF WASHINGTON BLVD WORKING EASTERLY.
 - BUILD CURB & GUTTER AND THEN SIDEWALK ON THE NORTH SIDE OF WASHINGTON BLVD.
 - CONTRACTOR SHALL COMPLETE THE INSTALLATION OF DOMINION/COMCAST DUCTBANKS ON 13TH STREET NORTH.
 - CONTRACTOR SHALL COORDINATE WITH DOMINION/COMCAST AND ALLOW A MINIMUM OF 4 MONTHS FOR DOMINION/COMCAST TO INSTALL LINES WITHIN THE COMPLETED DUCTBANKS.
 - COMPLETE THE INSTALLATION OF WATERLINE ON 13TH STREET NORTH.
 - INSTALL NEW FIRE HYDRANT ON WASHINGTON BLVD. AND 13TH STREET NORTH.
 - INSTALL TRAFFIC SIGNAL POLE, PED POLES, PUSH BUTTONS, ON THE NORTH SIDE OF WASHINGTON BLVD.

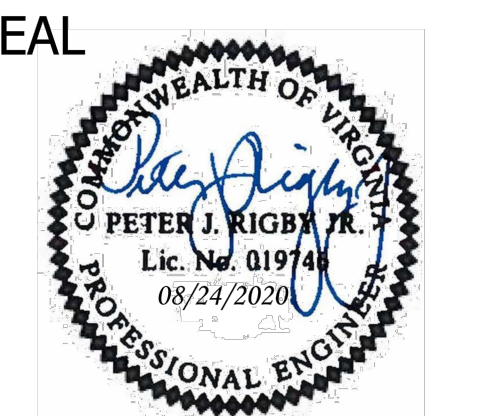
WORK HOURS:

- IN ARLINGTON RIGHT-OF-WAY - 9 AM TO 4 PM (MON.-FRI.)
 - IN VDOT RIGHT-OF-WAY - 9:30 AM TO 3 PM (MON.-THUR.) AND 9:30 AM TO 2 PM (FRI.)
- ALL LANES SHALL BE FULLY OPEN TO TRAFFIC OUTSIDE THE ABOVE HOURS UNLESS SPECIFIED OTHERWISE IN THE MAINTENANCE OF TRAFFIC PLANS.
- CONTRACTOR TO MAINTAIN ACCESSIBLE ROUTE. EXISTING HANDICAP RAMPS TO BE MAINTAINED OR TEMPORARY RAMPS TO BE PROVIDED TO ADEQUATELY SUB-PHASE CONSTRUCTION OF NEW SIDEWALK FACILITIES.

MOT NOTES:

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- THE CONTRACTOR SHALL COORDINATE WITH ARLINGTON COUNTY TRANSIT BUREAU (703-228-3049) AT LEAST 4 WEEKS PRIOR TO COMMENCEMENT OF WORK FOR APPROVAL, IF TRANSIT IS AFFECTED. COORDINATE WITH BUS STOP MANAGER FOR STOP RELOCATIONS.
- ALL SIGNS AND TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) LATEST EDITION.
- UNLESS OTHERWISE SHOWN ON THE MAINTENANCE OF TRAFFIC PLAN, THE TYPES AND DISTANCES BETWEEN CONSTRUCTION SIGNS ON THIS PROJECT SHALL BE IN ACCORDANCE WITH THE MOST CURRENT EDITIONS OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS (MUTCD) AND ALL REVISIONS THERETO, THE VIRGINIA SUPPLEMENT TO THE MUTCD AND ALL REVISIONS THERETO, AND THE VIRGINIA WORK AREA PROTECTION MANUAL, 2011 (VA WAPM) AND ALL REVISIONS THERETO.
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- NO LANE CLOSURES ON ARTERIAL STREETS WILL BE PERMITTED ON HOLIDAYS AS NOTED IN THE VIRGINIA DEPARTMENT OF TRANSPORTATION ROAD AND BRIDGE SPECIFICATIONS.
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REVISIONS	DATE

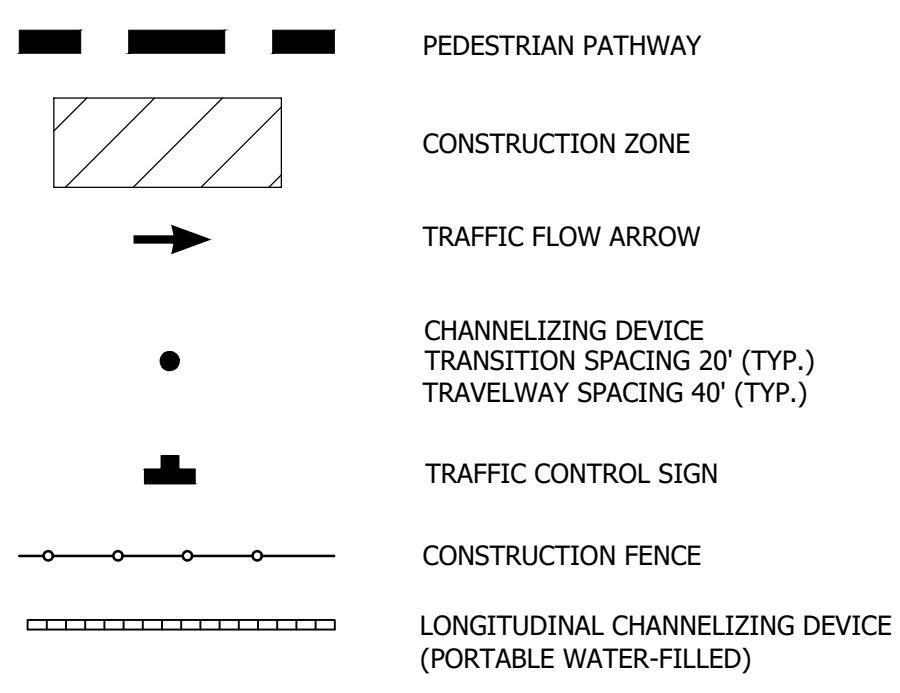
Project Name and Location
WASHINGTON BOULEVARD & 13TH STREET NORTH IMPROVEMENTS
MAINTENANCE OF TRAFFIC PLAN-PHASE 7
WASHINGTON BLVD. FROM NORTH KIRKWOOD ROAD TO FAIRFAX DRIVE
13TH STREET NORTH FROM WASHINGTON BLVD. TO NORTH JACKSON STREET & NORTH JOHNSON STREET FROM 13TH STREET NORTH TO 150' WEST

Designed: ABB
Drawn: CDL
Checked: MSD
Miss Utility Transmittal #: N/A

Filename: 27-MOT-PHASE 1C27-MOT-PHASE 1.DWG
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MOT LEGEND



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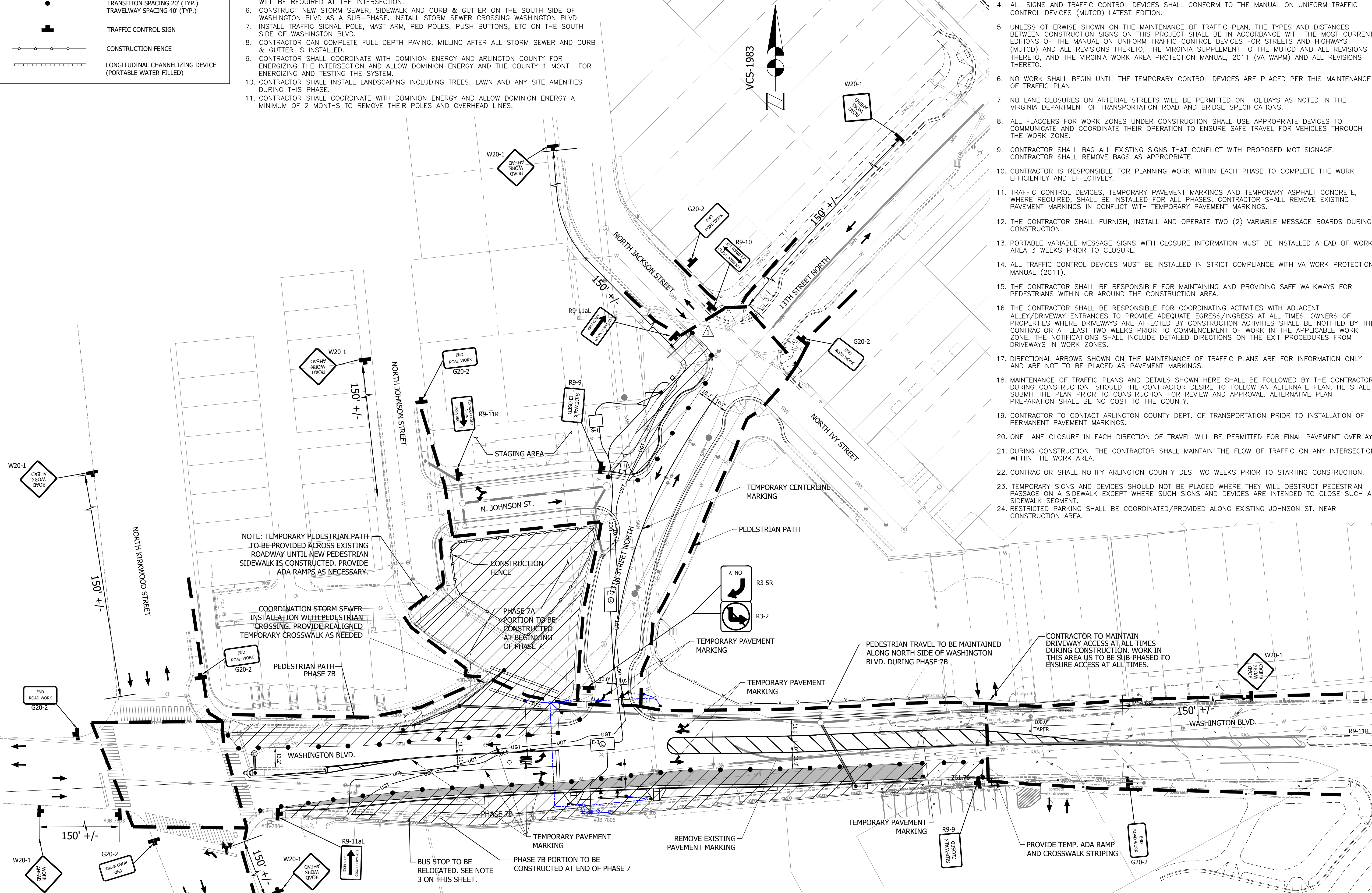
- PHASE 7 (5 MONTHS):**
- CONSTRUCT CURB AND SIDEWALK ON THE NORTHERN WEST SIDE OF 13TH STREET NORTH.
 - CONSTRUCT THE REST OF THE STORM SEWER ON THE NORTH SIDE OF WASHINGTON BLVD.
 - CONSTRUCT THE REST OF THE SIDEWALK AND CURB & GUTTER ON THE NORTH SIDE OF WASHINGTON AND GRADE THE PARK AREA AS LABELED AS PHASE 7A ON PLANS.
 - COMPLETE THE INSTALLATION OF THE TRAFFIC SIGNAL POLE (MAST ARM) ON THE NORTH SIDE OF WASHINGTON BLVD.
 - CONTRACTOR SHALL INSTALL PAVING AND TEMPORARY PAVEMENT MARKINGS IN WASH BLVD AND 13TH STREET NORTH BEFORE THE NEW INTERSECTION CAN BE OPENED. TEMPORARY PAVING WILL BE REQUIRED AT THE INTERSECTION.
 - CONSTRUCT NEW STORM SEWER, SIDEWALK AND CURB & GUTTER ON THE SOUTH SIDE OF WASHINGTON BLVD AS A SUB-PHASE. INSTALL STORM SEWER CROSSING WASHINGTON BLVD.
 - INSTALL TRAFFIC SIGNAL POLE, MAST ARM, PED POLES, PUSH BUTTONS, ETC ON THE SOUTH SIDE OF WASHINGTON BLVD.
 - CONTRACTOR CAN COMPLETE FULL DEPTH PAVING, MILLING AFTER ALL STORM SEWER AND CURB & GUTTER IS INSTALLED.
 - CONTRACTOR SHALL COORDINATE WITH DOMINION ENERGY AND ARLINGTON COUNTY FOR ENERGIZING THE INTERSECTION AND ALLOW DOMINION ENERGY AND THE COUNTY 1 MONTH FOR ENERGIZING AND TESTING THE SYSTEM.
 - CONTRACTOR SHALL INSTALL LANDSCAPING INCLUDING TREES, LAWN AND ANY SITE AMENITIES DURING THIS PHASE.
 - CONTRACTOR SHALL COORDINATE WITH DOMINION ENERGY AND ALLOW DOMINION ENERGY A MINIMUM OF 2 MONTHS TO REMOVE THEIR POLES AND OVERHEAD LINES.

WORK HOURS:

- IN ARLINGTON RIGHT-OF-WAY - 9 AM TO 4 PM (MON.-FRI.)
 - IN VDOT RIGHT-OF-WAY - 9:30 AM TO 3 PM (MON.-THUR.) AND 9:30 AM TO 2 PM (FRI.)
- ALL LANES SHALL BE FULLY OPEN TO TRAFFIC OUTSIDE THE ABOVE HOURS UNLESS SPECIFIED OTHERWISE IN THE MAINTENANCE OF TRAFFIC PLANS.
- CONTRACTOR TO MAINTAIN ACCESSIBLE ROUTE. EXISTING HANDICAP RAMPS TO BE MAINTAINED OR TEMPORARY RAMPS TO BE PROVIDED TO ADEQUATELY SUB-PHASE CONSTRUCTION OF NEW SIDEWALK FACILITIES.

MOT NOTES:

- IT IS NOT THE INTENT OF THE MAINTENANCE OF TRAFFIC PLAN TO ENUMERATE EVERY DETAIL WHICH MUST BE CONSIDERED IN CONSTRUCTION, BUT ONLY TO SHOW THE GENERAL HANDLING OF TRAFFIC; UNLESS OTHERWISE APPROVED OR DIRECTED BY THE ENGINEER, THE CONTRACTOR SHALL PLAN AND EXECUTE THE WORK IN ACCORDANCE WITH THIS TEMPORARY TRAFFIC CONTROL PLAN.
- PARKING SHALL BE RESTRICTED BY THE COUNTY AS PART OF THE RIGHT-OF-WAY PERMIT. CONTACT DES-PERMITTING SECTION (703-228-4798) AT LEAST 72 HOURS PRIOR TO COMMENCEMENT OF WORK.
- THE CONTRACTOR SHALL COORDINATE WITH ARLINGTON COUNTY TRANSIT BUREAU (703-228-3049) AT LEAST 4 WEEKS PRIOR TO COMMENCEMENT OF WORK FOR APPROVAL, IF TRANSIT IS AFFECTED. COORDINATE WITH BUS STOP MANAGER FOR STOP RELOCATION.
- ALL SIGNS AND TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) LATEST EDITION.
- UNLESS OTHERWISE SHOWN ON THE MAINTENANCE OF TRAFFIC PLAN, THE TYPES AND DISTANCES BETWEEN CONSTRUCTION SIGNS ON THIS PROJECT SHALL BE IN ACCORDANCE WITH THE MOST CURRENT EDITIONS OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS (MUTCD) AND ALL REVISIONS THERETO, THE VIRGINIA SUPPLEMENT TO THE MUTCD AND ALL REVISIONS THERETO, AND THE VIRGINIA WORK AREA PROTECTION MANUAL, 2011 (VA WAPM) AND ALL REVISIONS THERETO.
- NO WORK SHALL BEGIN UNTIL THE TEMPORARY CONTROL DEVICES ARE PLACED PER THIS MAINTENANCE OF TRAFFIC PLAN.
- NO LANE CLOSURES ON ARTERIAL STREETS WILL BE PERMITTED ON HOLIDAYS AS NOTED IN THE VIRGINIA DEPARTMENT OF TRANSPORTATION ROAD AND BRIDGE SPECIFICATIONS.
- ALL FLAGGERS FOR WORK ZONES UNDER CONSTRUCTION SHALL USE APPROPRIATE DEVICES TO COMMUNICATE AND COORDINATE THEIR OPERATION TO ENSURE SAFE TRAVEL FOR VEHICLES THROUGH THE WORK ZONE.
- CONTRACTOR SHALL BAG ALL EXISTING SIGNS THAT CONFLICT WITH PROPOSED MOT SIGNAGE. CONTRACTOR SHALL REMOVE BAGS AS APPROPRIATE.
- CONTRACTOR IS RESPONSIBLE FOR PLANNING WORK WITHIN EACH PHASE TO COMPLETE THE WORK EFFICIENTLY AND EFFECTIVELY.
- TRAFFIC CONTROL DEVICES, TEMPORARY PAVEMENT MARKINGS AND TEMPORARY ASPHALT CONCRETE, WHERE REQUIRED, SHALL BE INSTALLED FOR ALL PHASES. CONTRACTOR SHALL REMOVE EXISTING PAVEMENT MARKINGS IN CONFLICT WITH TEMPORARY PAVEMENT MARKINGS.
- THE CONTRACTOR SHALL FURNISH, INSTALL AND OPERATE TWO (2) VARIABLE MESSAGE BOARDS DURING CONSTRUCTION.
- PORTABLE VARIABLE MESSAGE SIGNS WITH CLOSURE INFORMATION MUST BE INSTALLED AHEAD OF WORK AREA 3 WEEKS PRIOR TO CLOSURE.
- ALL TRAFFIC CONTROL DEVICES MUST BE INSTALLED IN STRICT COMPLIANCE WITH VA WORK PROTECTION MANUAL (2011).
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING AND PROVIDING SAFE WALKWAYS FOR PEDESTRIANS WITHIN OR AROUND THE CONSTRUCTION AREA.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ACTIVITIES WITH ADJACENT ALLEY/DRIVEWAY ENTRANCES TO PROVIDE ADEQUATE EGRESS/INGRESS AT ALL TIMES. OWNERS OF PROPERTIES WHERE DRIVEWAYS ARE AFFECTED BY CONSTRUCTION ACTIVITIES SHALL BE NOTIFIED BY THE CONTRACTOR AT LEAST TWO WEEKS PRIOR TO COMMENCEMENT OF WORK IN THE APPLICABLE WORK ZONE. THE NOTIFICATIONS SHALL INCLUDE DETAILED DIRECTIONS ON THE EXIT PROCEDURES FROM DRIVEWAYS IN WORK ZONES.
- DIRECTIONAL ARROWS SHOWN ON THE MAINTENANCE OF TRAFFIC PLANS ARE FOR INFORMATION ONLY AND ARE NOT TO BE PLACED AS PAVEMENT MARKINGS.
- MAINTENANCE OF TRAFFIC PLANS AND DETAILS SHOWN HERE SHALL BE FOLLOWED BY THE CONTRACTOR DURING CONSTRUCTION. SHOULD THE CONTRACTOR DESIRE TO FOLLOW AN ALTERNATE PLAN, HE SHALL SUBMIT THE PLAN PRIOR TO CONSTRUCTION FOR REVIEW AND APPROVAL. ALTERNATIVE PLAN PREPARATION SHALL BE NO COST TO THE COUNTY.
- CONTRACTOR TO CONTACT ARLINGTON COUNTY DEPT. OF TRANSPORTATION PRIOR TO INSTALLATION OF PERMANENT PAVEMENT MARKINGS.
- ONE LANE CLOSURE IN EACH DIRECTION OF TRAVEL WILL BE PERMITTED FOR FINAL PAVEMENT OVERLAY.
- DURING CONSTRUCTION, THE CONTRACTOR SHALL MAINTAIN THE FLOW OF TRAFFIC ON ANY INTERSECTION WITHIN THE WORK AREA.
- CONTRACTOR SHALL NOTIFY ARLINGTON COUNTY DES TWO WEEKS PRIOR TO STARTING CONSTRUCTION.
- TEMPORARY SIGNS AND DEVICES SHOULD NOT BE PLACED WHERE THEY WILL OBSTRUCT PEDESTRIAN PASSAGE ON A SIDEWALK EXCEPT WHERE SUCH SIGNS AND DEVICES ARE INTENDED TO CLOSE SUCH A SIDEWALK SEGMENT.
- RESTRICTED PARKING SHALL BE COORDINATED/PROVIDED ALONG EXISTING JOHNSON ST. NEAR CONSTRUCTION AREA.



NOTE: TEMPORARY PEDESTRIAN PATH TO BE PROVIDED ACROSS EXISTING ROADWAY UNTIL NEW PEDESTRIAN SIDEWALK IS CONSTRUCTED. PROVIDE ADA RAMPS AS NECESSARY.

COORDINATION STORM SEWER INSTALLATION WITH PEDESTRIAN CROSSING. PROVIDE REALIGNED TEMPORARY CROSSWALK AS NEEDED

PHASE 7A PORTION TO BE CONSTRUCTED AT BEGINNING OF PHASE 7.

PEDESTRIAN TRAVEL TO BE MAINTAINED ALONG NORTH SIDE OF WASHINGTON BLVD. DURING PHASE 7B

CONTRACTOR TO MAINTAIN DRIVEWAY ACCESS AT ALL TIMES DURING CONSTRUCTION. WORK IN THIS AREA US TO BE SUB-PHASED TO ENSURE ACCESS AT ALL TIMES.

BUS STOP TO BE RELOCATED. SEE NOTE 3 ON THIS SHEET.

PHASE 7B PORTION TO BE CONSTRUCTED AT END OF PHASE 7

REMOVE EXISTING PAVEMENT MARKING

PROVIDE TEMP. ADA RAMP AND CROSSWALK STRIPING

PLANT SCHEDULE:

QTY TREES	KEY	LATIN NAME	COMMON NAME	SIZE	SPACING/CCA	NATIVE
8	NSY	Nyssa Sylvatica	Black Gum	B&B, 2" - 2 1/2" cal	393.75	X
2	QPX	Quercus Phellos	Willow Oak	B&B, 2" - 2 1/2" cal	312.50	X
2	TDC	Taxodium Distichum	Bald Cypress	B&B, 2" - 2 1/2" cal	250	

HARDSCAPE LEGEND

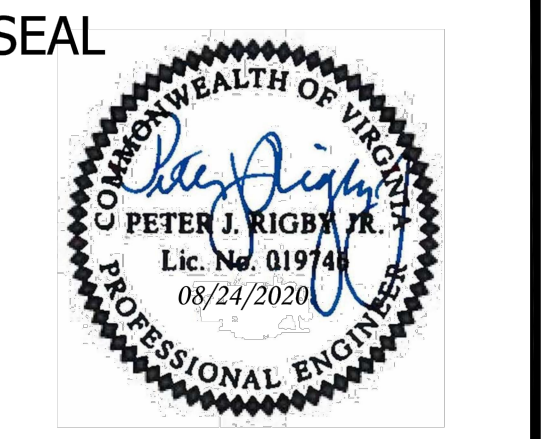
P1	SCORED CONCRETE SIDEWALK	
P2	INSTALL SALVAGED EX UNIT PAVER SIDEWALK	
F1	TRASH RECEPTACLE	
L1	DOUBLE GLOBE CARLYLE LIGHT	
L2	SINGLE GLOBE CARLYLE LIGHT	
L3	LED COBRA LIGHT	
L4	STREET LIGHT CONDUIT	
L5	STREET LIGHT METER PEDESTAL	

LANDSCAPE LEGEND

	LAWN		PROPOSED STREET TREE
	EXISTING TREE		



DEPARTMENT OF ENVIRONMENTAL SERVICES
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 ENGINEERING BUREAU
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APPROVALS	DATE
<i>Amy Pflaum</i> QUALITY CONTROL ENGINEER	9/11/2020
<i>Kamal Takab</i> CONSTRUCTION MANAGEMENT SUPERVISOR	8.31.20
<i>[Signature]</i> WATER, SEWER, STREETS BUREAU CHIEF	09.16.2020
<i>Dennis M. Leach</i> TRANSPORTATION DIRECTOR	09/11/20
<i>Gabriela Koch</i> PROJECT MANAGER	August 24, 2020

REVISIONS	DATE

Project Name and Location
WASHINGTON BOULEVARD & 13TH STREET NORTH IMPROVEMENTS
LANDSCAPE AND HARDSCAPE PLAN
 WASHINGTON BLVD. FROM NORTH KIRKWOOD ROAD TO FAIRFAX DRIVE
 13TH STREET NORTH FROM WASHINGTON BLVD. TO NORTH JACKSON STREET & NORTH JOHNSON STREET FROM 13TH STREET NORTH TO 150' WEST

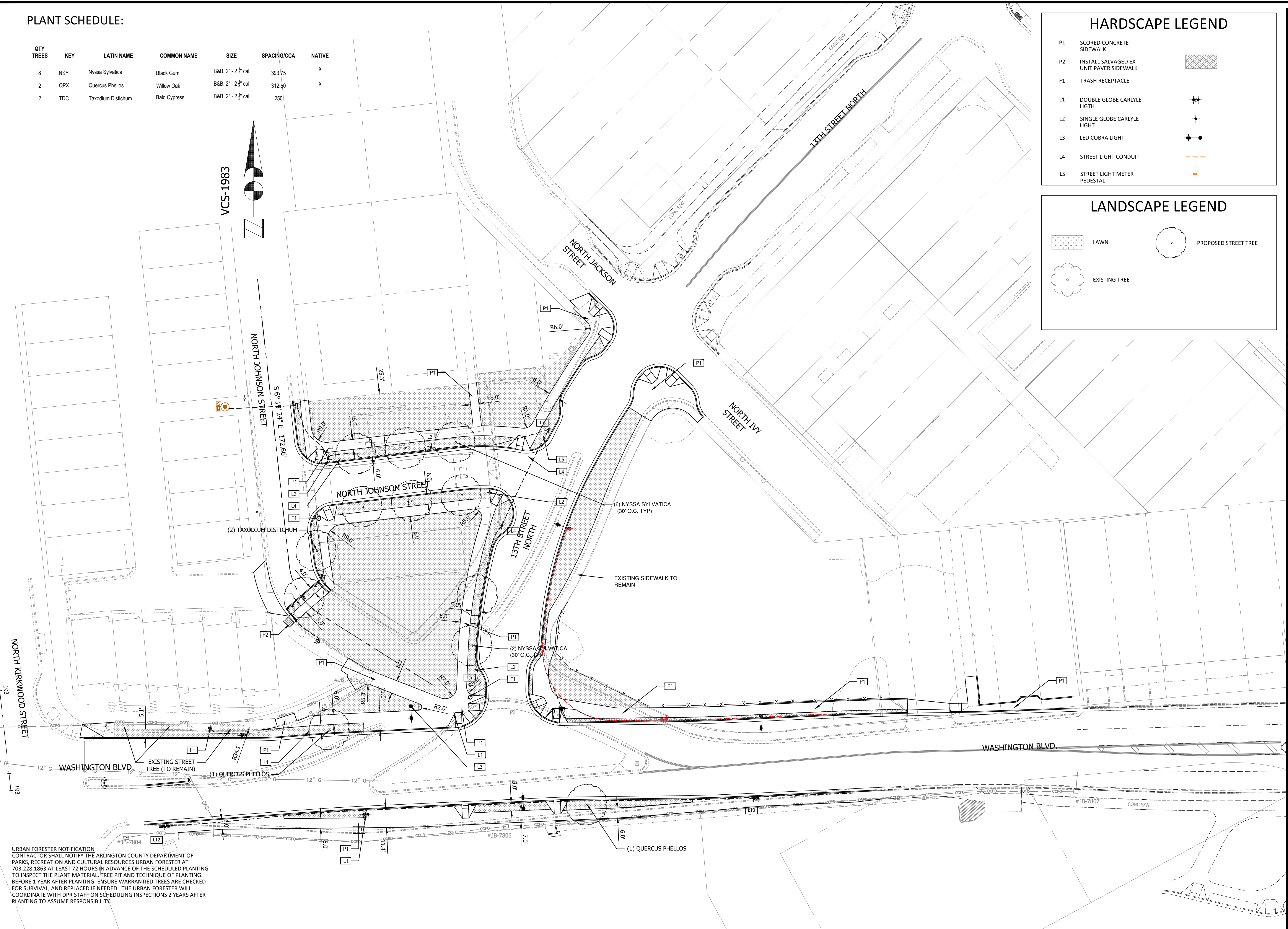
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 Plotted by: CL

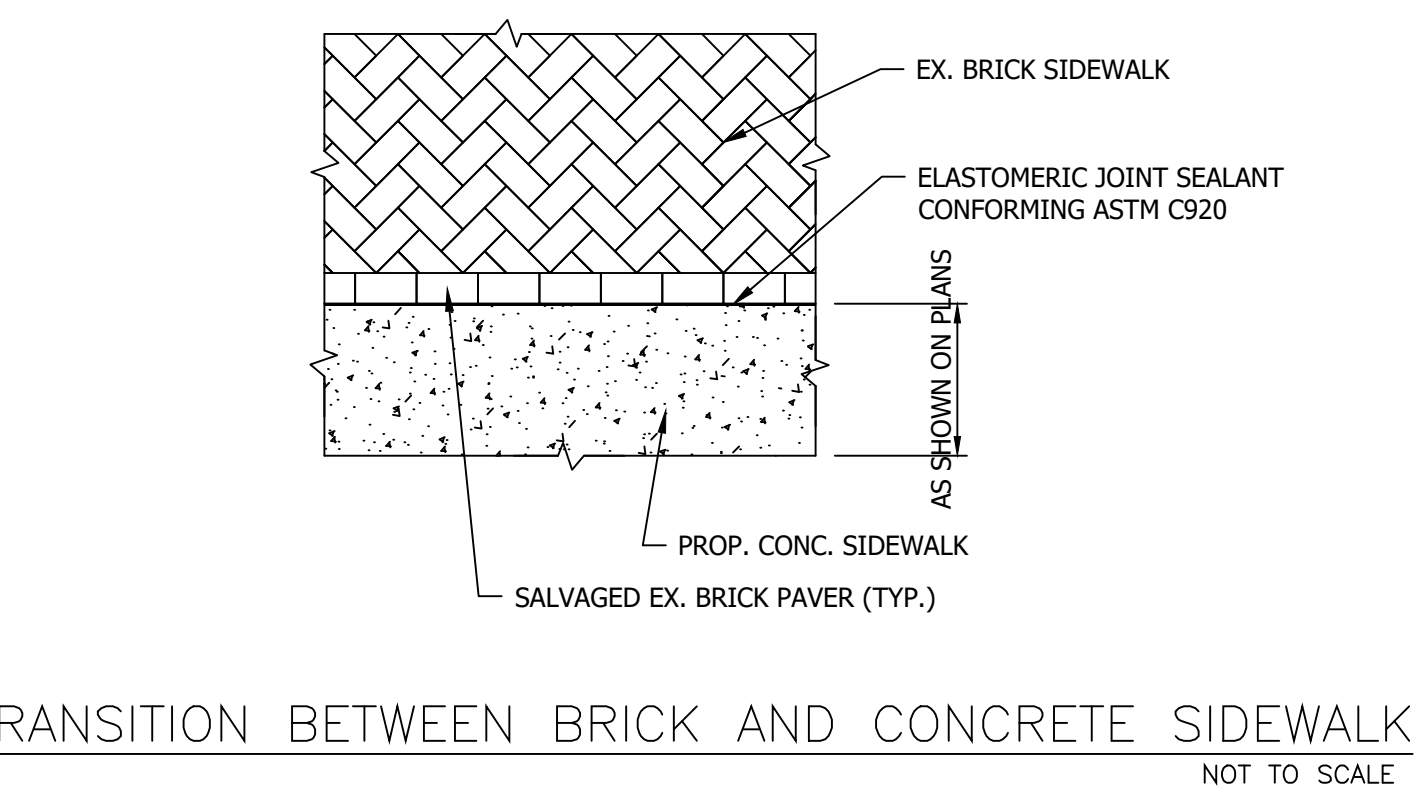
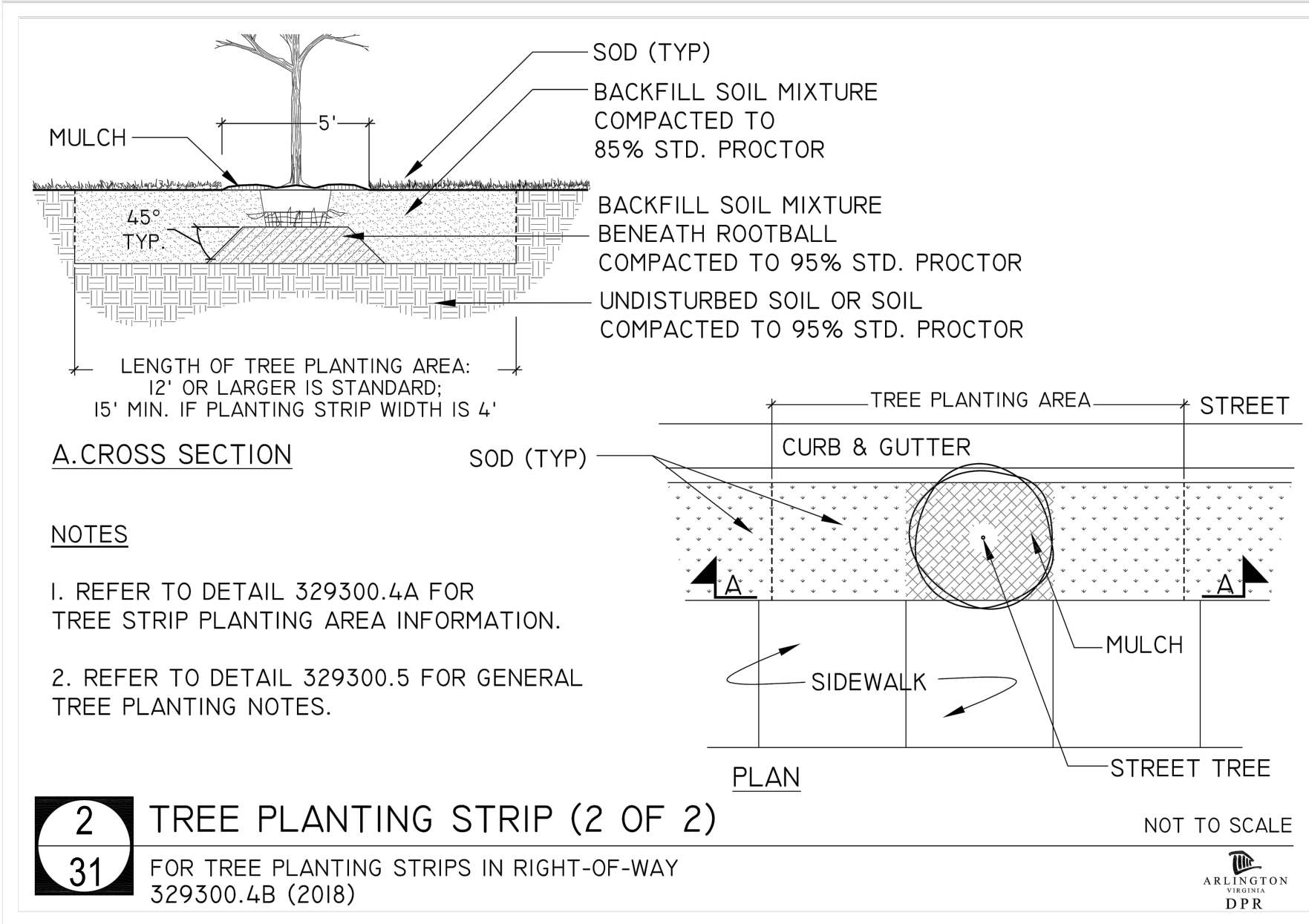
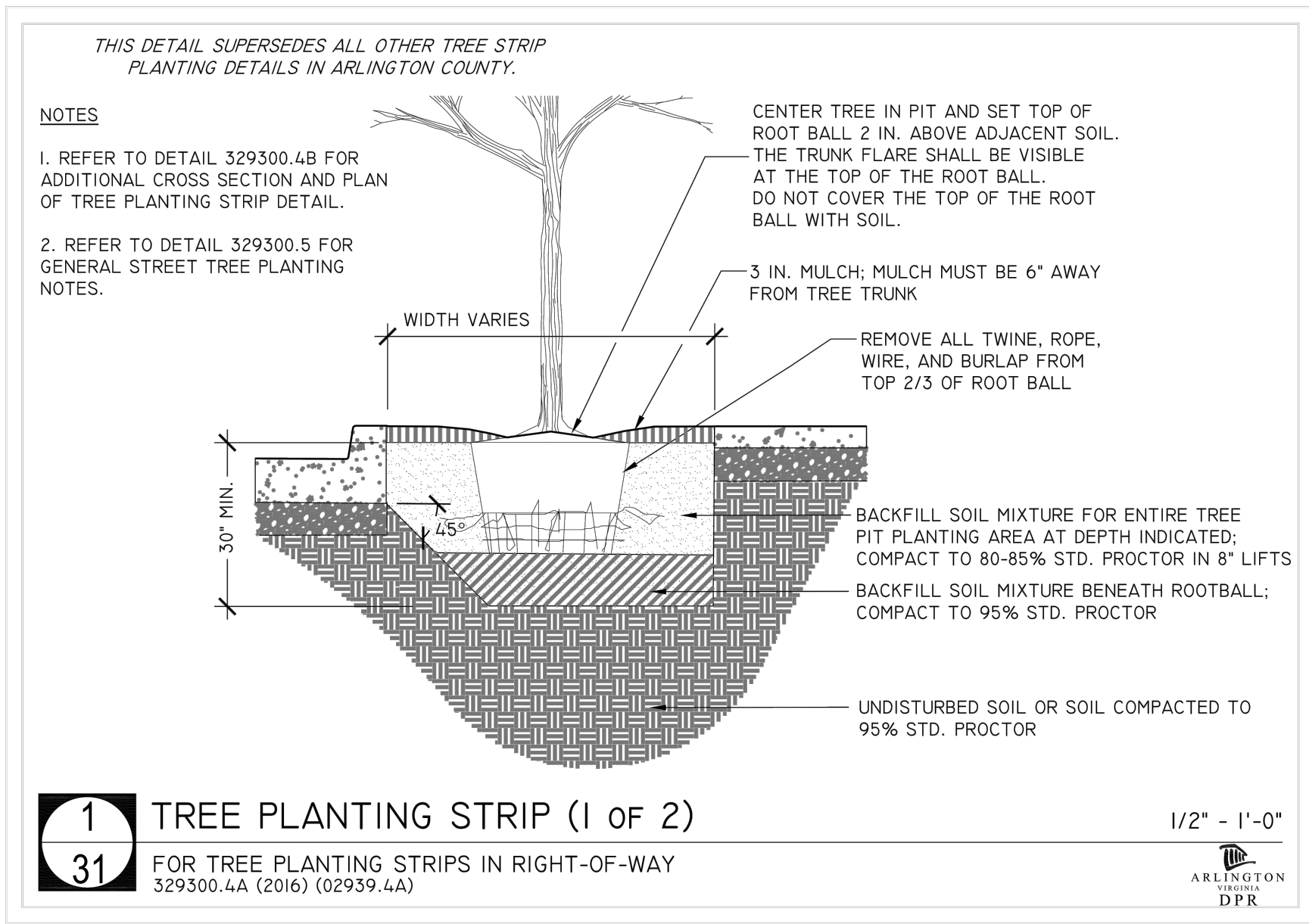
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 GRAPHIC SCALE
 1" = 25'

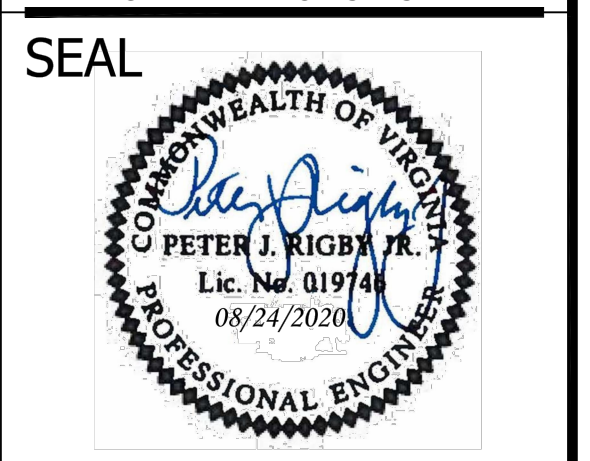
Sheet
30 OF 38



URBAN FORESTER NOTIFICATION
 CONTRACTOR SHALL NOTIFY THE ARLINGTON COUNTY DEPARTMENT OF PARKS, RECREATION AND CULTURAL RESOURCES URBAN FORESTER AT 703.228.1863 AT LEAST 72 HOURS IN ADVANCE OF THE SCHEDULED PLANTING TO INSPECT THE PLANT MATERIAL, TREE PIT AND TECHNIQUE OF PLANTING. BEFORE 1 YEAR AFTER PLANTING, ENSURE WARRANTIED TREES ARE CHECKED FOR SURVIVAL, AND REPLACED IF NEEDED. THE URBAN FORESTER WILL COORDINATE WITH DPR STAFF ON SCHEDULING INSPECTIONS 2 YEARS AFTER PLANTING TO ASSUME RESPONSIBILITY.



- NOTES**
- A PERMIT IS REQUIRED WHEN TREES ARE PLANTED IN PUBLIC RIGHT-OF-WAY OR IN A PUBLIC EASEMENT. THE DEPARTMENT OF ENVIRONMENTAL SERVICES SHALL ISSUE THE PERMIT ACCORDING TO THE PROVISIONS OF THE CURRENT ARLINGTON COUNTY ADMINISTRATIVE REGULATION 4.3.
 - TREE SPECIES SHALL BE SELECTED FROM THE "ARLINGTON COUNTY STREET TREE LIST" OR PER SECTOR PLAN REQUIREMENTS.
 - TREES SHALL BE NURSERY GROWN SPECIMENS THAT MEET THE LATEST EDITION OF THE AMERICAN STANDARDS FOR NURSERY STOCK (ANSI Z60). BALLED AND BURLAPPED TREES SHALL BE SECURELY HELD IN PLACE BY UNTREATED BURLAP AND STOUT ROPE (NYLON ROPE IS NOT ACCEPTABLE). LOOSE, BROKEN OR MANUFACTURED BALLS ARE UNACCEPTABLE.
 - CALL MISS UTILITY AT (800) 552-7001 FOR UTILITY LOCATIONS PRIOR TO EXCAVATION.
 - AT TIME OF PLANTING PRUNE ONLY CROSSING LIMBS, BROKEN OR DEAD BRANCHES, AND ANY BRANCHES THAT POSE A HAZARD TO PEDESTRIANS. DO NOT PRUNE INTO OLD WOOD ON EVERGREENS.
 - TREE PIT AND TREE STRIP PLANTING AREA DIMENSIONS:
 - 5' X 12' OR LARGER IS STANDARD
 - 4' X 15' MINIMUM IS ALLOWED PER SITE CONDITIONS AND COUNTY URBAN FORESTER'S APPROVAL.
 - SPACE TREES 25'-30' APART OR PER SECTOR PLAN REQUIREMENTS OR SITE CONDITIONS.
 - SITE CHARACTERISTICS, SUCH AS OVERHEAD POWER LINES, EXISTING VEGETATION, AND INFRASTRUCTURE ITEMS SUCH AS CURBS, SIDEWALKS AND UTILITIES SHALL BE CONSIDERED. TREES THAT GROW TALLER THAN 25 FEET SHOULD NOT BE PLANTED DIRECTLY UNDER POWER LINES. WHEN POSSIBLE THE TREE LEADER SHALL BE OFFSET FROM POWER LINES.
 - BACKFILL SOIL MIXTURE SHALL BE 3/4 EXISTING SOIL CLEANED OF DEBRIS (GRAVEL, ROCKS, STICKS, TRASH, ETC.) AND MIXED WITH 1/4 ORGANIC MATERIAL (COMPOSTED BARK, LEAF MOLD, OR OTHER PLANT DEBRIS PROCESSED TO A POINT OF DECAY AND APPROVED BY THE COUNTY URBAN FORESTER. PEAT MOSS MAY NOT BE USED.
 - IF THE QUANTITY OF ACCEPTABLE EXISTING SOIL IS INSUFFICIENT FOR THE PLANTING REQUIREMENTS, THE CONTRACTOR MAY USE TOPSOIL. SOIL TEST REPORT RESULTS FOR THE TOPSOIL WILL BE MADE AVAILABLE TO THE COUNTY URBAN FORESTER UPON REQUEST. CONTRACTOR SHALL SUBMIT TOPSOIL FOR APPROVAL TO COUNTY URBAN FORESTER THAT MEETS THE FOLLOWING SPECIFICATIONS:
 - TOPSOIL CONSISTS OF A SANDY LOAM WITH UNIFORM COMPOSITION AND IS FREE OF STONES, LUMPS, PLANTS, ROOTS, AND OTHER DEBRIS OVER 1/2" IN LENGTH.
 - TOPSOIL HAS A PH RANGE OF 5.5 TO 6.5 AND A MINIMUM CONTENT OF 1.0% ORGANIC MATTER
 - TOPSOIL DOES NOT CONTAIN TOXIC SUBSTANCES HARMFUL TO PLANT GROWTH. SOLUBLE SALT LEVEL SHALL NOT EXCEED 3 MILLIGRAMS PER CONTAINER.
 - TREES PLANTED WITHOUT THE TRUNK FLARE VISIBLE WILL BE REJECTED.
 - TREES MAY ONLY BE STAKED IF REQUIRED BY THE COUNTY URBAN FORESTER. REFER TO ARLINGTON COUNTY STANDARD STAKING DETAILS.
 - MULCH SHALL BE CLEAN, SCREENED, DOUBLE-HAMMERED HARDWOOD BARK MULCH, UNIFORM IN SIZE AND FREE OF STONES, CLODS, NON-ORGANIC DEBRIS AND OTHER FOREIGN MATERIAL.
 - ALL PLANTS SHALL BE WATERED TWICE: ONCE AT INSTALLATION AND AGAIN WITHIN 48-HOURS OF INSTALLATION. EACH WATERING WILL CONSIST OF 20 GALLONS PER TREE.
 - CONTRACTOR SHALL LEGALLY REMOVE EXCESS SOIL & DEBRIS FROM SITE.
- 3 GENERAL NOTES FOR STREET TREE PLANTINGS**
FOR TREES PLANTED IN RIGHT-OF-WAY
329300.5 (2016) (02930.5)
- ARLINGTON VIRGINIA DPR



APPROVALS	DATE
Amy Pflaum QUALITY CONTROL ENGINEER	9/11/2020
Kamal Taktak CONSTRUCTION MANAGEMENT SUPERVISOR	8.31.20
[Signature] WATER, SEWER, STREETS BUREAU CHIEF	09.16.2020
Dennis M. Leach TRANSPORTATION DIRECTOR	09/11/20
Gabriela Koch PROJECT MANAGER	August 24, 2020

REVISIONS	DATE

Project Name and Location
WASHINGTON BOULEVARD & 13TH STREET NORTH IMPROVEMENTS
LANDSCAPE AND HARDSCAPE DETAILS

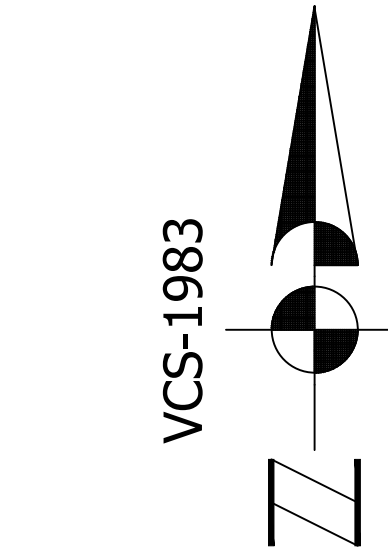
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Plotted: September 17, 2020
Plotted by: CL

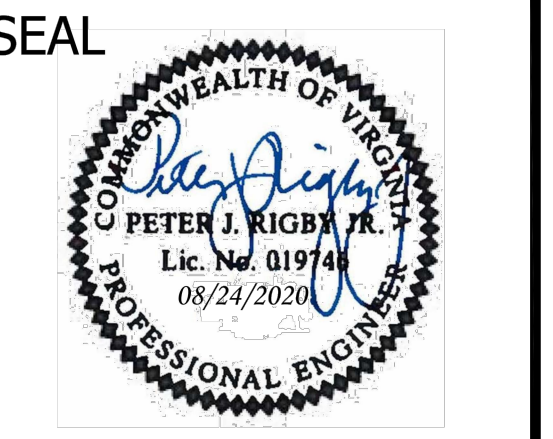
Scale: AS NOTED

Tree #	Botanic Name	Common Name	Caliper (DBH)	Condition Rating	Species Rating	Total Rating	Preserve/Remove	Replacements Required
1	Quercus phellos	Willow Oak	10	0.80	0.70	5.6	Preserve	
2	Zelkova serrata	Japanese Zelkova	1.0	0.80	0.70	5.6	Preserve	
3	Zelkova serrata	Japanese Zelkova	1.2	0.80	0.70	6.7	Preserve	
4	Zelkova serrata	Japanese Zelkova	4	0.80	0.70	2.2	Preserve	
5	Zelkova serrata	Japanese Zelkova	4	0.80	0.70	2.2	Preserve	
6	Zelkova serrata	Japanese Zelkova	4	0.80	0.70	2.2	Preserve	
7	Zelkova serrata	Japanese Zelkova	10	0.70	0.70	5.3	Preserve	
8	Ilex Nellie Stevensii	Nellie Stevens Holly	1.2	0.80	0.80	7.7	Preserve	
9	Monna alba	White Mulberry	1.4	0.60	0.40	3.4	Preserve	
10	Ilex cornuta	Chinese Holly	1.0	0.80	0.80	6.4	Preserve	
11	Prunus serotina Kawananzii	Kawanzan Cherry	1.3	0.70	0.50	4.9	Preserve	
12	Prunus serotina Kawananzii	Kawanzan Cherry	1.3	0.70	0.50	4.9	Preserve	
13	Ilex cornuta	Chinese Holly	4	0.80	0.80	2.6	Preserve	
14	Monna alba	White Mulberry	1.4	0.72	0.40	4.0	Preserve	
15	Prunus serotina Kawananzii	Kawanzan Cherry	3	0.40	0.50	0.7	Preserve	
16	Prunus serotina Kawananzii	Kawanzan Cherry	10	0.70	0.50	3.8	Preserve	
17	Acer rubrum	Red Maple	1.2	0.80	0.70	6.7	Preserve	
18	Monna alba	White Mulberry	1.2	0.48	0.40	2.3	Preserve	
19	Monna alba	White Mulberry	30	0.60	0.40	7.2	Preserve	
20	Monna alba	White Mulberry	12	0.48	0.40	2.3	Preserve	
21	Thuja occidentalis	Eastern Arborvitae	3	0.80	0.60	1.4	Preserve	
22	Prunus serotina Kawananzii	Kawanzan Cherry	1.4	0.72	0.50	5.0	Preserve	
23	Ilex Nellie Stevensii	Nellie Stevens Holly	3	0.80	0.80	1.9	Preserve	
24	Acer negundo	Box Elder	8	0.48	0.30	1.2	Preserve	
25	Ulmus americana	American Elm	10	0.48	0.60	2.9	Preserve	
26	Gleditsia inaequalis	Honey Locust	8	0.80	0.60	3.6	Preserve	
27	Gleditsia inaequalis	Honey Locust	10	0.80	0.60	4.8	Preserve	
28	Ilex opaca	American Holly	1.2	0.72	0.70	6.0	Remove	2
29	Lagerstroemia indica	Crape Myrtle	3	0.80	0.80	1.9	Remove	1
30	Lagerstroemia indica	Crape Myrtle	3	0.80	0.80	1.9	Remove	1
31	Lagerstroemia indica	Crape Myrtle	3	0.80	0.80	1.9	Remove	1
32	Ilex opaca	American Holly	1.6	0.60	0.70	6.7	Remove	2
33	Quercus palustris	Pin Oak	11	0.80	0.70	6.2	Preserve	
34	Calathea speciosa	Northern Calathea	8	0.48	0.40	1.5	Preserve	
35	Castanea sp.	Hawthorn	7	0.40	0.60	2.0	Preserve	
36	Cedrus atlantica 'Glauca Pendula'	Weeping Blue Atlas Cedar	6	0.80	0.80	3.8	Remove	1
37	Quercus phellos	Willow Oak	8	0.80	0.70	4.5	Preserve	
38	Lagerstroemia indica	Crape Myrtle	6	0.80	0.80	3.6	Preserve	
39	Ulmus americana	American Elm	9	0.70	0.60	3.6	Preserve	
40	Prunus serotina Kawananzii	Kawanzan Cherry	4	0.80	0.50	1.6	Preserve	
41	Cercis canadensis	Redbud	3	0.80	0.70	1.7	Preserve	
42	Acer rubrum	Red Maple	1.8	0.80	0.70	10.1	Preserve	
43	Acer negundo	Box Elder	4	0.48	0.30	0.6	Preserve	
44	Koeleria paniculata	Goldenrain Tree	3	0.04	0.70	0.1	Preserve	
45	Acer negundo	Box Elder	3	0.60	0.30	0.5	Preserve	
46	Fraxinus pennsylvanica	Green Ash	3	0.24	0.40	0.3	Preserve	
47	Ulmus americana	American Elm	3	0.60	0.60	1.1	Preserve	
48	Quercus phellos	Willow Oak	4	0.80	0.70	2.2	Preserve	
49	Quercus phellos	Willow Oak	4	0.80	0.70	2.2	Preserve	
50	Quercus phellos	Willow Oak	4	0.80	0.70	2.2	Preserve	
51	Quercus phellos	Willow Oak	4	0.80	0.70	2.2	Preserve	
52	Quercus phellos	Willow Oak	4	0.80	0.70	2.2	Preserve	
53	Quercus phellos	Willow Oak	4	0.80	0.70	2.2	Preserve	
54	Quercus phellos	Willow Oak	4	0.80	0.70	2.2	Preserve	
55	Quercus phellos	Willow Oak	4	0.80	0.70	2.2	Preserve	
56	Quercus phellos	Willow Oak	4	0.80	0.70	2.2	Preserve	
57	Quercus phellos	Willow Oak	4	0.80	0.70	2.2	Preserve	
58	Quercus phellos	Willow Oak	3	0.80	0.70	1.7	Preserve	
59	Quercus phellos	Willow Oak	4	0.80	0.70	2.2	Preserve	
60	Quercus phellos	Willow Oak	4	0.80	0.70	2.2	Preserve	
61	Quercus phellos	Willow Oak	4	0.80	0.70	2.2	Preserve	
62	Quercus phellos	Willow Oak	10	0.80	0.70	5.6	Preserve	
63	Quercus phellos	Willow Oak	10	0.80	0.70	5.6	Preserve	
64	Quercus phellos	Willow Oak	7	0.80	0.70	3.9	Preserve	
65	Prunus serotina Kawananzii	Kawanzan Cherry	8	0.80	0.50	3.2	Preserve	
66	Quercus phellos	Willow Oak	7	0.80	0.70	3.9	Remove	1
67	Prunus serotina Kawananzii	Kawanzan Cherry	8	0.70	0.50	2.8	Preserve	
68	Quercus phellos	Willow Oak	10	0.80	0.70	5.6	Preserve	
69	Prunus serotina Kawananzii	Kawanzan Cherry	8	0.80	0.50	3.2	Preserve	
70	Quercus phellos	Willow Oak	10	0.80	0.70	5.6	Preserve	
71	Prunus serotina Kawananzii	Kawanzan Cherry	10	0.80	0.50	4.0	Preserve	
72	Prunus serotina Kawananzii	Kawanzan Cherry	8	0.50	0.50	2.0	Preserve	
73	Quercus phellos	Willow Oak	8	0.80	0.70	4.5	Preserve	
74	Prunus serotina Kawananzii	Kawanzan Cherry	12	0.80	0.50	4.8	Preserve	

Notes:
 1. Condition Rating based on formula provided by the **Guide for Plant Appraisal** published by the ISA.
 2. Species Rating based on formula provided by the **Guide for Plant Appraisal** published by the ISA.
 3. All trees with a minimum 3.0 D.B.H. were measured and noted.
 4. The locations of trees 1, 8, 10, 13, 21, 23, 29, 30, 31, 36 & 39 have not been surveyed and are shown as observed in the field.
 5. Nine (9) Tree replacements are required, 10 have been provided, see Landscape Plan on sheet #30.



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 PHONE: 703.228.3629
 FAX: 703.228.3606



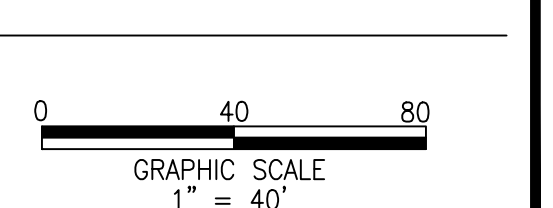
APPROVALS	DATE
<i>Amy Pflaum</i>	9/11/2020
QUALITY CONTROL ENGINEER	
<i>Kamal Tabak</i>	8.31.20
CONSTRUCTION MANAGEMENT SUPERVISOR	
<i>Glenn</i>	09.16.2020
WATER, SEWER, STREETS BUREAU CHIEF	
<i>Dennis M. Leach</i>	09/11/20
TRANSPORTATION DIRECTOR	
<i>Gabriela Koch</i>	August 24, 2020
PROJECT MANAGER	

REVISIONS	DATE

TREE INVENTORY PLAN
 WASHINGTON BLVD. FROM NORTH WASHINGTON ROAD TO FAIRFAX DRIVE
 KIRKWOOD ROAD FROM WASHINGTON BLVD. TO NORTH JACKSON STREET & NORTH JOHNSON STREET FROM 13TH STREET NORTH TO 150' WEST

Designed: ABB
 Drawn: CDL
 Checked: MSD
 Miss Utility Transmittal #: N/A

Filename: 32-TREE INVENTORY PLAN32-TREE INVENTORY
 Path: Q:\DATA\2020\DESIGN_CAD\30100 PCT
 IRGINIA\REVISED APPROVED PLANS
 Plotted: September 17, 2020
 Plotted by: CL



REGISTRATION STATEMENT

Registration Statement
General VPDES Permit for Discharges of Stormwater from Construction Activities (VAR10)

- (Please Type or Print All Information)
- Construction Activity Operator:** (General permit coverage will be issued to this operator. The Certification in Item #12 must be signed by the appropriate person associated with this operator.)
Name: _____
Contact: _____
Mailing Address: _____
City: _____ State: _____ Zip: _____ Phone: _____
Email address (if available): _____
Indicate if DEQ may transmit general permit correspondence electronically: Yes No
 - Existing General Permit Registration Number (for renewals only):** _____
 - Name and Location of the Construction Activity:**
Name: _____
Address (if available): _____
City: _____ State: _____ Zip: _____
County (if not located within a City): _____
Latitude (decimal degrees): _____ Longitude (decimal degrees): _____
Name and Location of all Off-site Support Activities to be covered under the general permit:
Name: _____
Address (if available): _____
City: _____ State: _____ Zip: _____
County (if not located within a City): _____
Latitude (decimal degrees): _____ Longitude (decimal degrees): _____
 - Status of the Construction Activity (check only one):** Federal State Public Private
 - Nature of the Construction Activity (e.g., commercial, industrial, residential, agricultural, oil and gas, etc.):** _____
Name of the Receiving Water(s) and Hydrologic Unit Code (HUC) - [Link to HUC6 Map](#)
Name: _____ HUC: _____
Name: _____ HUC: _____
 - If the discharge is through a Municipal Separate Storm Sewer System (MS4), the name of the MS4 operator:** _____
 - Estimated Project Start and Completion Date:**
Start Date (mm/dd/yyyy): _____ Completion Date (mm/dd/yyyy): _____
 - Total Land Area of Development (to the nearest one-hundredth acre):** _____
Estimated Area to be Disturbed (to the nearest one-hundredth acre): _____
 - Is the area to be disturbed part of a larger common plan of development or sale?** Yes No
 - A stormwater pollution prevention plan (SWPPP) must be prepared in accordance with the requirements of the General VPDES Permit for Discharges of Stormwater from Construction Activities prior to submitting this Registration Statement. By signing this Registration Statement the operator is certifying that the SWPPP has been prepared.**
 - Certification:** "I certify under penalty of law that I have read and understand this Registration Statement and that this document and all attachments were prepared in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment for knowing violations."
Printed Name: _____ Title: _____
Signature: _____ Date: _____
(Please sign in INK. This Certification must be signed by the appropriate person associated with the operator identified in Item #1.)

01/2014

Page 1 of 1

POLLUTION PREVENTION PLAN

2.0 Authorized Non-Stormwater Discharges

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

5.0 Potential Sources of Pollution & Pollution Prevention Practices

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

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

- 7.0 Spill Prevention & Response**
- Most spills can be cleaned up following manufacturer specifications. Absorbent/oil dry, sealable containers, plastic bags, and shovels/brooms are suggested minimum spill response items that should be available at this location.
- 1st Priority: Protect all people
2nd Priority: Protect equipment and property
3rd Priority: Protect the environment

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

Emergency Contacts:

Normal Working Hours
DEQ Northern Regional Office 703-583-3800

Nights, Holidays & Weekends
VA Dept. of Emergency Management 804-674-2400
24 Hour Reporting Service

Local Contacts
Local Fire Department 703-228-3362
Local Police Department 703-558-2222

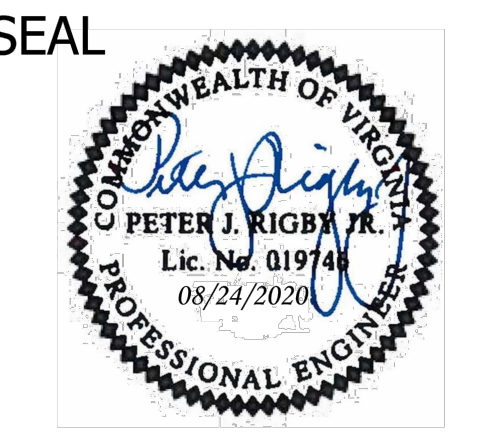
POLLUTION PREVENTION PLAN NOTES

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



DEPARTMENT OF ENVIRONMENTAL SERVICES
FACILITIES & ENGINEERING DIVISION
ENGINEERING BUREAU
2100 CLARENDON BOULEVARD, SUITE 813
ARLINGTON, VA 22201
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FAX: 703.228.3606

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APPROVALS DATE

Amy Pflaum 9/11/2020
QUALITY CONTROL ENGINEER

Kamal Taktak 8.31.20
CONSTRUCTION MANAGEMENT SUPERVISOR

09.16.2020
WATER, SEWER, STREETS BUREAU CHIEF

Dennise M. Leach 09/11/20
TRANSPORTATION DIRECTOR

Gabriela Koch August 24, 2020
PROJECT MANAGER

REVISIONS DATE

Project Name and Location
WASHINGTON BOULEVARD & 13TH STREET NORTH IMPROVEMENTS
POLLUTION PREVENTION PLAN

Designed: ABB
Drawn: CDL
Checked: MSD
Miss Utility Transmittal #: N/A

Filename: 33-POLLUTION PREVENTION PLANS-POLLI
Path: Q:\DATA\8023 DESIGN_CAD\80 100 PCT
Plotted: September 17, 2020
Plotted by: CL
Scale: N/A

GENERAL PHOTOMETRIC NOTES:

- EXISTING LIGHT FIXTURES HAVE BEEN INCLUDED IN THE CALCULATIONS. IN SOME CASES, THE WATTAGE AND OR LUMINAIRE HAVE BEEN ESTIMATED.
- PER ARLINGTON COUNTY THE LLF FOR ALL PROPOSED AND EXISTING LED FIXTURES HAS BEEN ASSUMED TO BE .95 AND .65 FOR ALL OTHER EXISTING FIXTURES.
- ILLUMINATION LEVELS HAVE BEEN CALCULATED FROM LABORATORY DATA TAKEN UNDER CONTROLLED CONDITIONS UTILIZING CURRENT INDUSTRY STANDARD LAMP RATINGS IN ACCORDANCE WITH THE ILLUMINATING ENGINEERING SOCIETY APPROVED METHODS.
- ACTUAL ILLUMINATION LEVELS MAY VARY FROM THE PREDICTED RESULTS SHOWN ON THIS PLAN DUE TO VARIATION IN ELECTRICAL VOLTAGE, TOLERANCE IN LAMPS AND OTHER FIELD CONDITIONS.

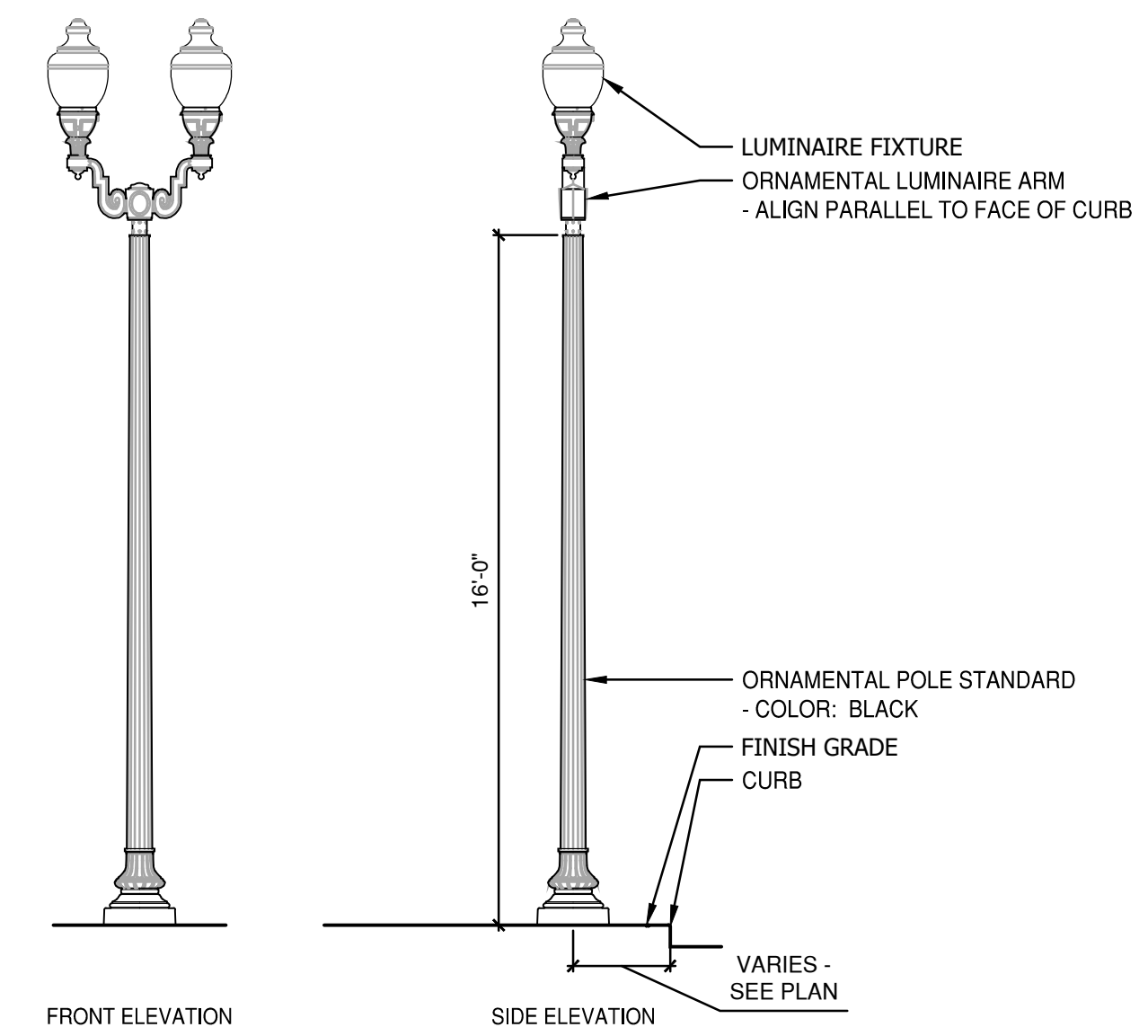
GENERAL CONSTRUCTION NOTES:

- CONTRACTOR SHALL PROVIDE ADEQUATE INTERIM LIGHTING DURING CONSTRUCTION AND UTILITY RELOCATION STAGE.
- ALL INTERIM LIGHTS THAT PROVIDE ILLUMINATION FOR ROADWAYS AND PEDESTRIAN WALKWAYS SHALL BE TURNED ON BETWEEN DUSK AND DAWN 7 DAYS A WEEK.
- THE APPROVED INTERIM LIGHTING PLAN SHALL BE OPERATED FROM PRIOR TO ISSUANCE OF THE DEMOLITION, CLEARING AND GRADING PERMIT UNTIL COUNTY STANDARD LIGHTING FIXTURES ARE IN PLACE AND OPERATIONAL AROUND THE PERIMETER OF THE SITE.
- COVERED WALKWAYS SHALL BE ILLUMINATED BY STRINGING LIGHT FIXTURES ALONG THE LENGTH OF THE COVERED WALKWAY AND SHALL USE 75 WATT BULBS (OR EQUIVALENT) SPACED 25 FEET APART AT 6 TO 10 FEET HIGH.

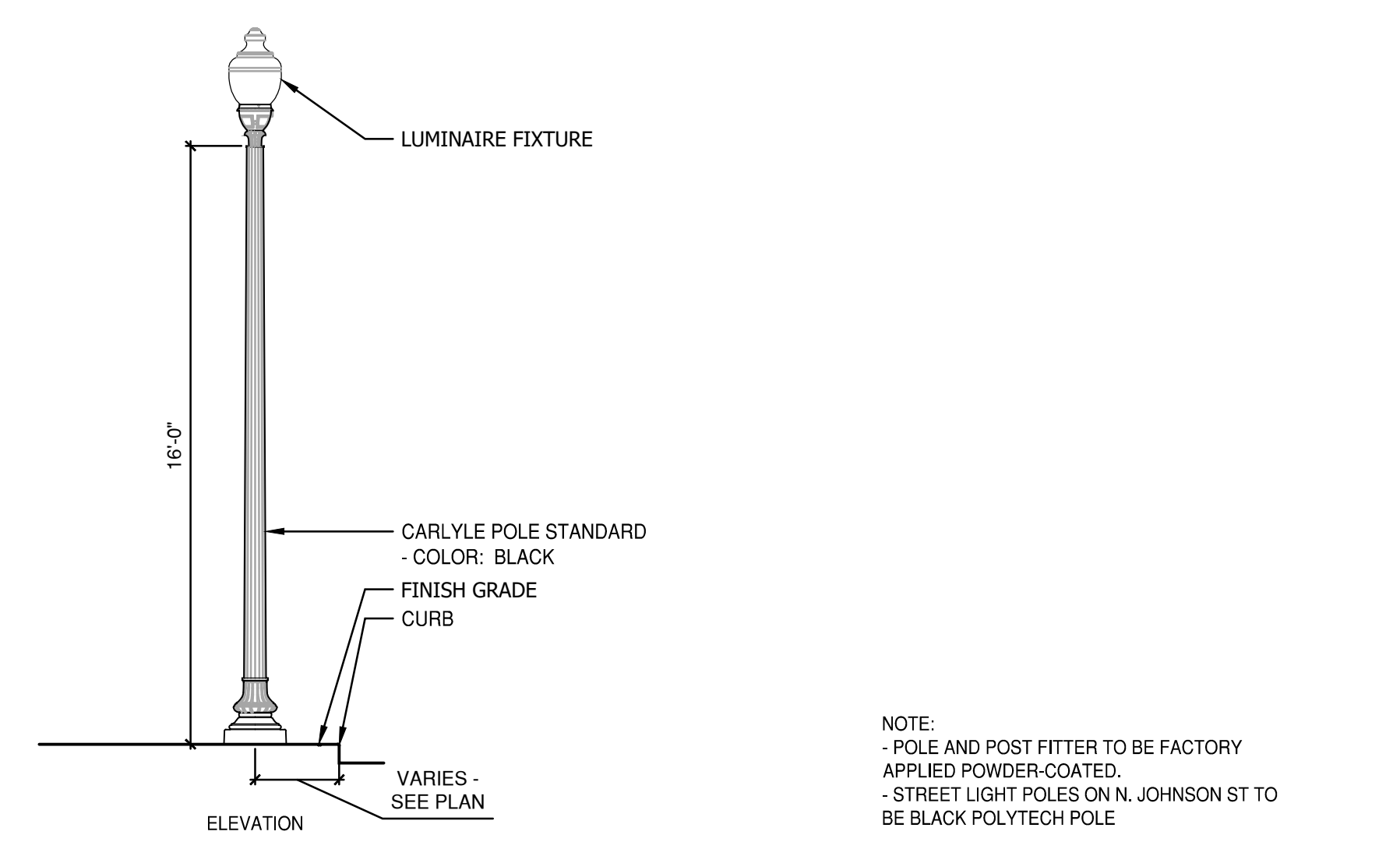
NOTE:
THIS PHOTOMETRIC PLAN REFLECTS THE ULTIMATE BUILD OUT CONDITION IN THE AREA OF THE SITE. THIS INCLUDES THE APPROXIMATE LOCATION OF DOUBLE-CARLYLE FIXTURES ASSUMED TO BE INSTALLED WITH THE REDEVELOPMENT AND CONSTRUCTION OF THE RED TOP SITE.

Symbol	Qty	Label	Arrangement	LLF	Description	Filename	Lum. Watts	Arm
●	4	Existing Single Globe Carlyle	SINGLE	0.95	relume_us2_LTL_17912_1F pole	relume_us2_LTL_17912_IES	57.6	0
●	2	2 Carlyle 6W 1V ref	BACK-BACK	0.95	RLS4BANN1ASNNNA3NNNSP1	69W GX4 350mA Type V Reflector ies	68	1.43
●	2	Cobra 72W	SINGLE	0.95	RFM-T2WSZLEDK4-T-RCM	72W Roadfocus Type III (1) ies	73	6
●	3	Ex 2 Carlyle CC volume	BACK-BACK	0.95	UNIVERSAL ACORN	relume_us2_LTL_17912_IES	57.6	1.4
●	3	Carlyle 39W IV 3000K	SINGLE	0.95	RLS4AxxxxSxWx2xxxx	39W GX4 200mA Type V 3000K (1) ies	39	0
●	2	2 Carlyle 39W III 3000K	BACK-BACK	0.95	RLS4AxxxxSxWx2xxxx	39W GX4 200mA Type III 3000K ies	39.3	1.43
●	3	Carlyle 69W III Reflec	SINGLE	0.95	RLS4BANN1ASNNNA3NNNSP1	69W GX4 350mA Type III Reflector ies	68.4	0

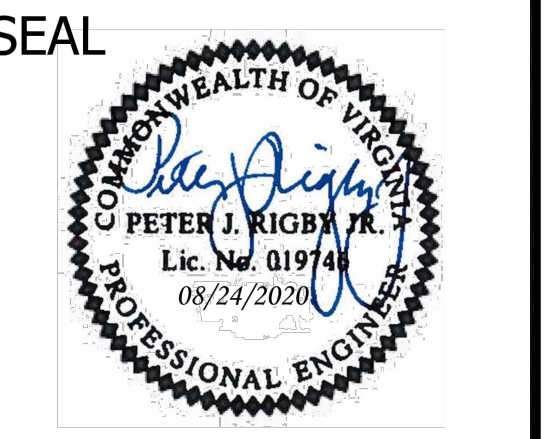
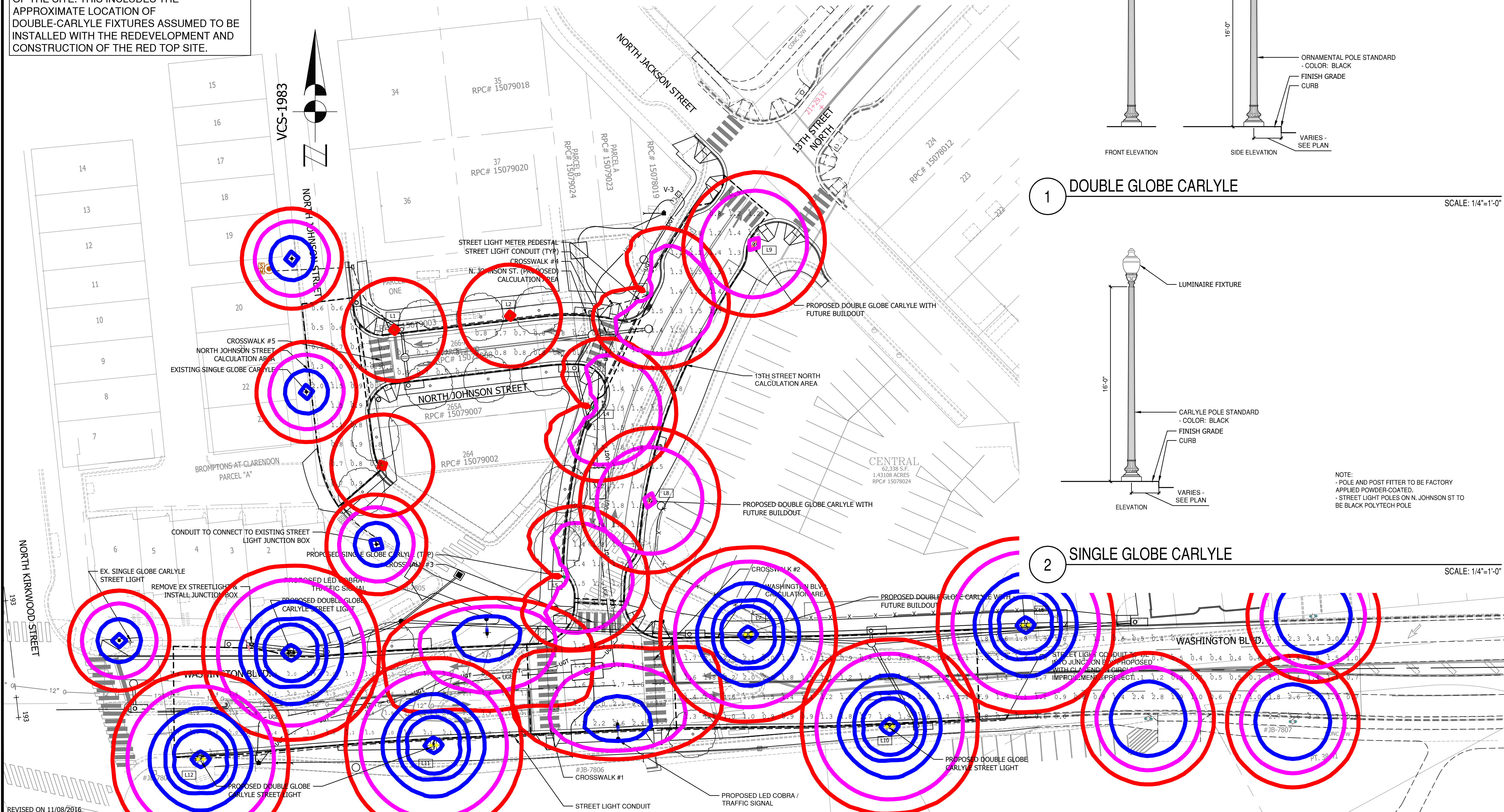
Label	Calc-Type	Units	Avg	Max	Min	Avg/Min	Max/Min
13th Street N	Illuminance	Fc	1.39	1.9	0.7	1.99	2.71
Crosswalk 1	Illuminance	Fc	1.54	1.8	1.2	1.28	1.50
Crosswalk 2	Illuminance	Fc	1.44	1.7	1.0	1.44	1.70
Crosswalk 3	Illuminance	Fc	1.47	1.7	1.2	1.23	1.42
Crosswalk 4	Illuminance	Fc	1.13	1.2	1.1	1.03	1.09
Crosswalk 5	Illuminance	Fc	0.73	0.8	0.7	1.04	1.14
Intersection	Illuminance	Fc	1.70	2.6	1.1	1.55	2.36
N. Johnson St	Illuminance	Fc	0.89	2.0	0.5	1.78	4.00
N. Johnson St (Proposed)	Illuminance	Fc	0.71	0.8	0.5	1.42	1.60
Washington Blvd East Side	Illuminance	Fc	1.33	3.6	0.3	4.43	12.00
Washington Blvd West Side	Illuminance	Fc	1.73	2.5	0.8	2.16	3.13



1 DOUBLE GLOBE CARLYLE SCALE: 1/4"=1'-0"



2 SINGLE GLOBE CARLYLE SCALE: 1/4"=1'-0"



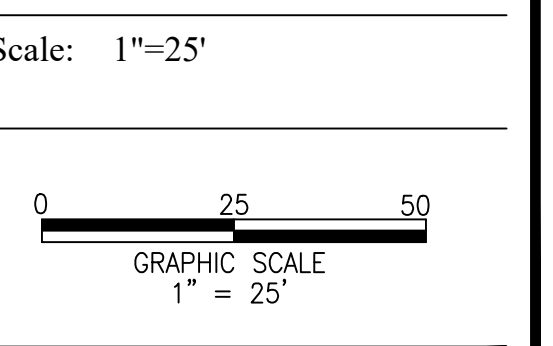
APPROVALS	DATE
Amy Pfau	9/11/2020
Kamal Takab	8.31.20
[Signature]	09.16.2020
Dennis M. Leach	09/11/20
Gabriela Koch	August 24, 2020

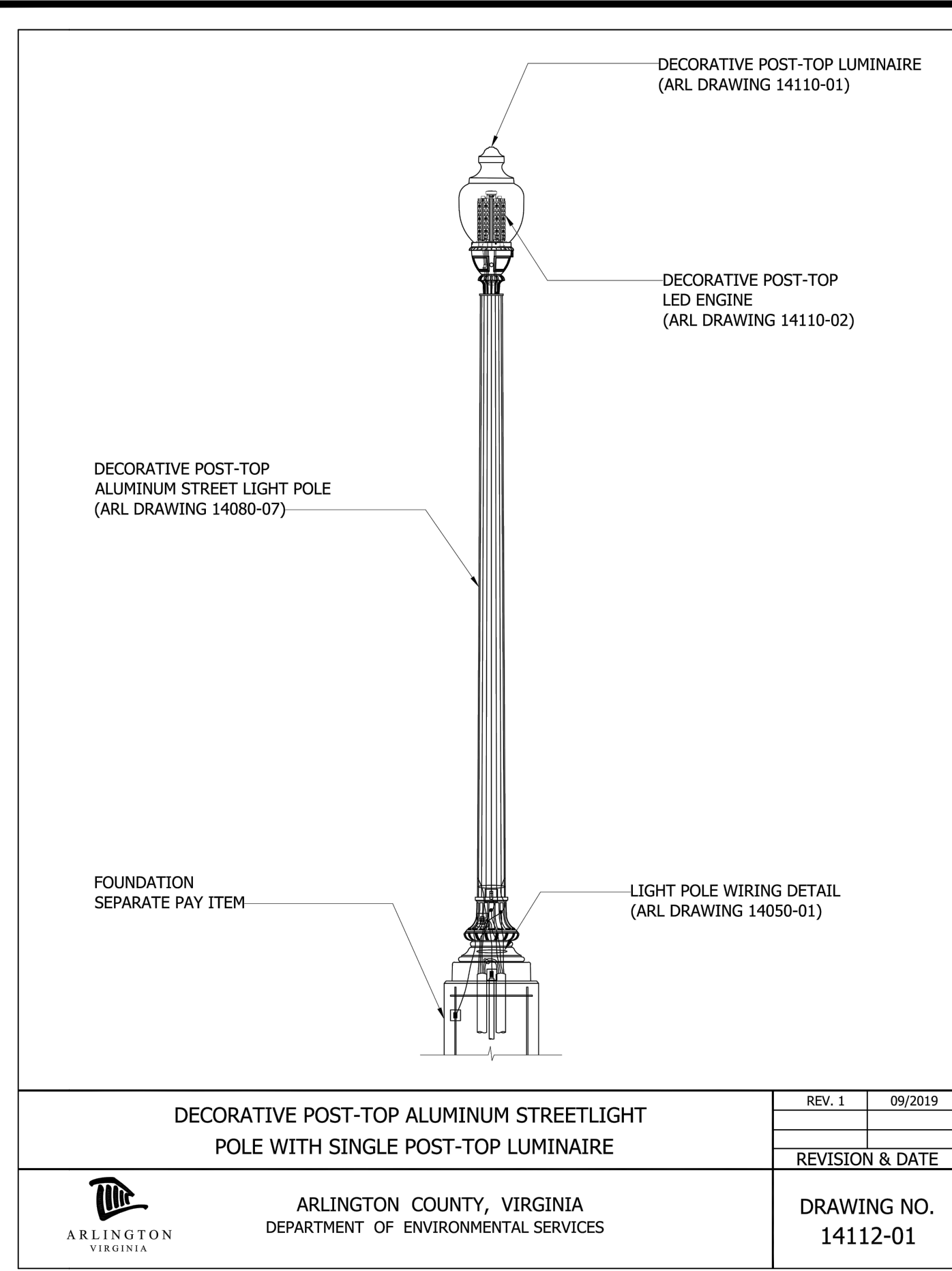
REVISIONS	DATE

Project Name and Location
WASHINGTON BOULEVARD & 13TH STREET NORTH IMPROVEMENTS
PHOTOMETRIC PLAN-ULTIMATE BUILDOUT
WASHINGTON BLVD. FROM NORTH KIRKWOOD ROAD TO FAIRFAX DRIVE
13TH STREET NORTH FROM WASHINGTON BLVD. TO NORTH JACKSON STREET & NORTH JOHNSON STREET FROM 13TH STREET NORTH TO 150' WEST

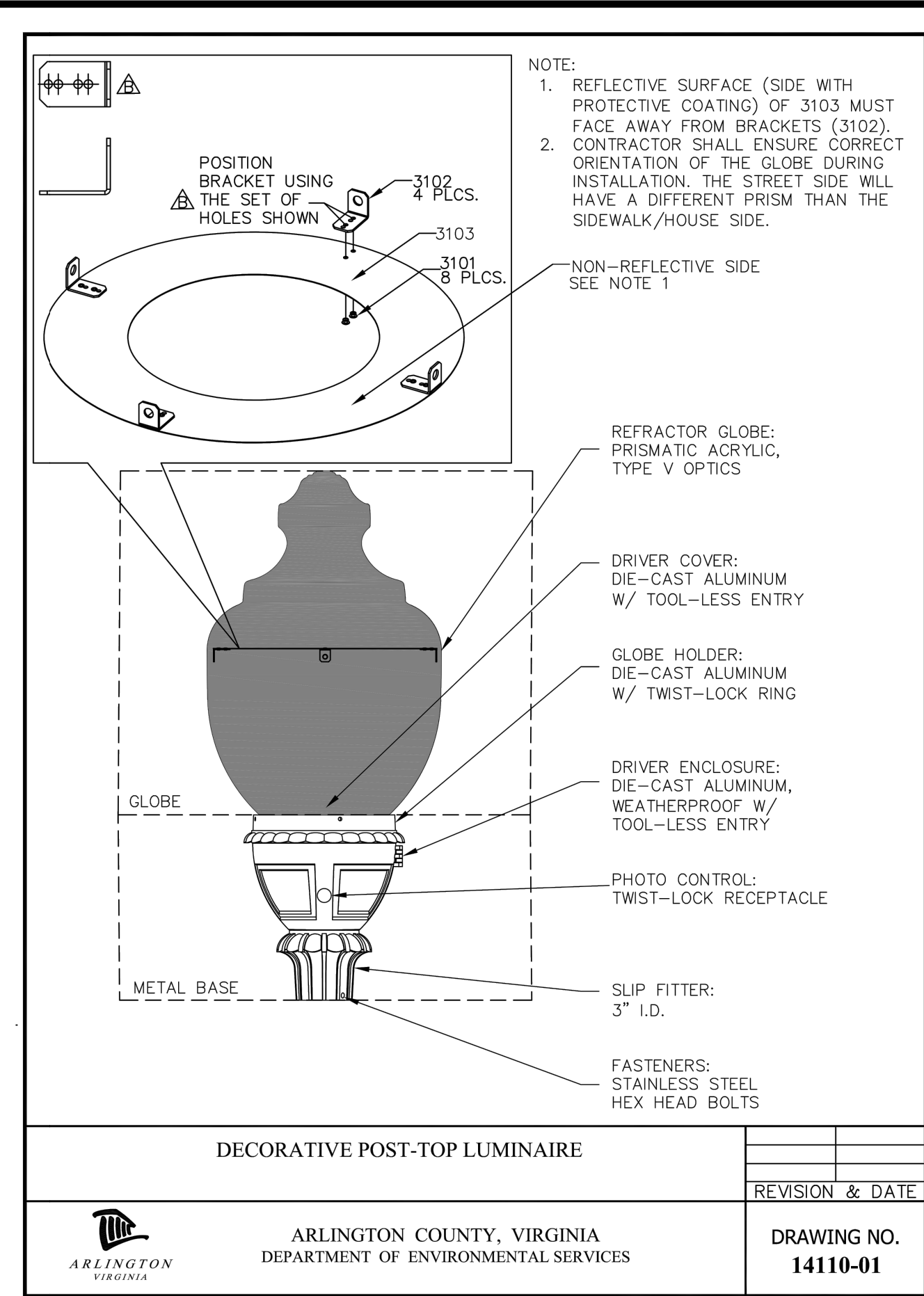
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Drawn: CDL
Checked: MSD
Miss Utility Transmittal #: N/A

Filename: 38-PHOTOMETRIC PLAN38-PHOTOMETRIC PLAN
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Plotted: September 17, 2020
Plotted by: CL

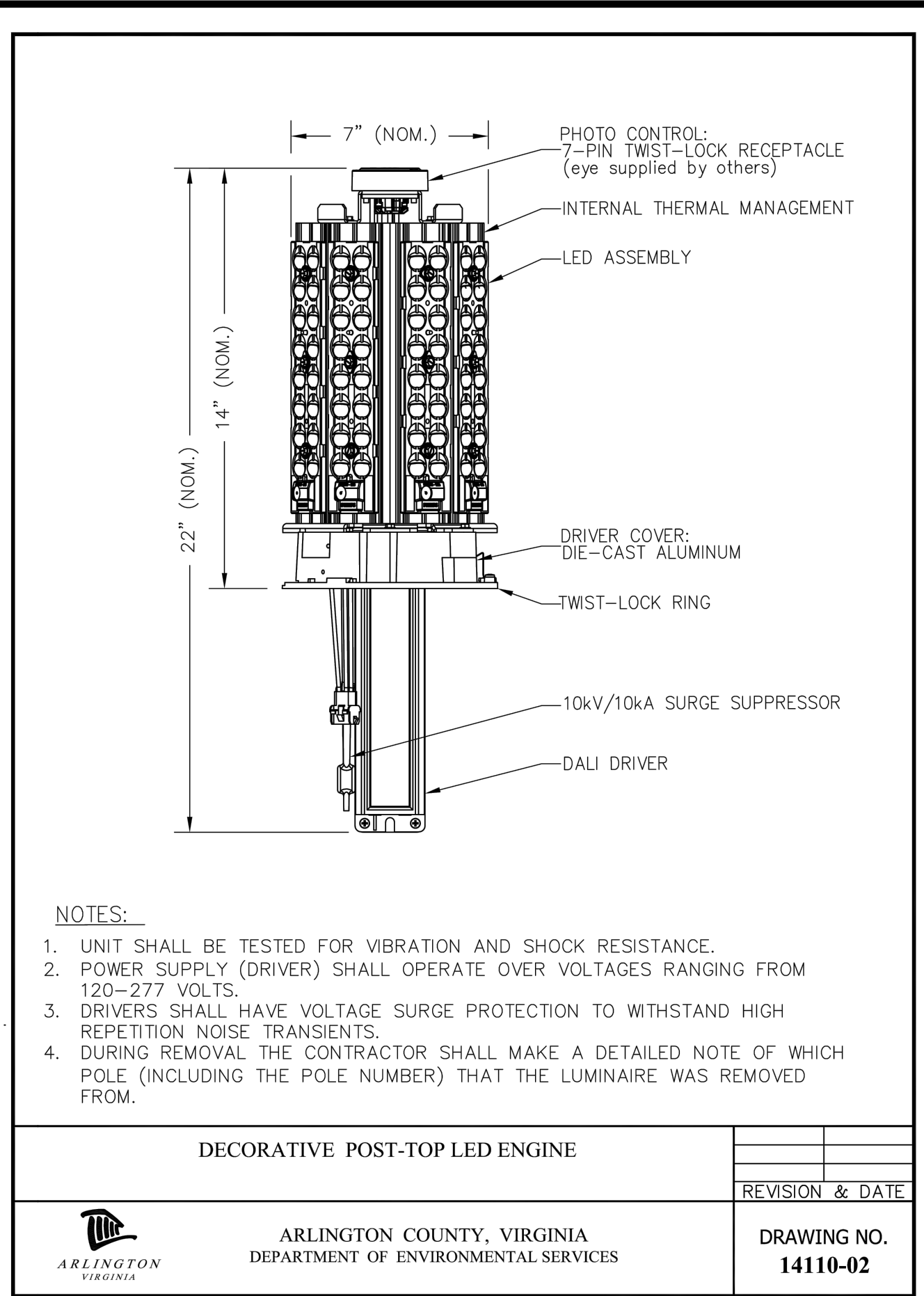




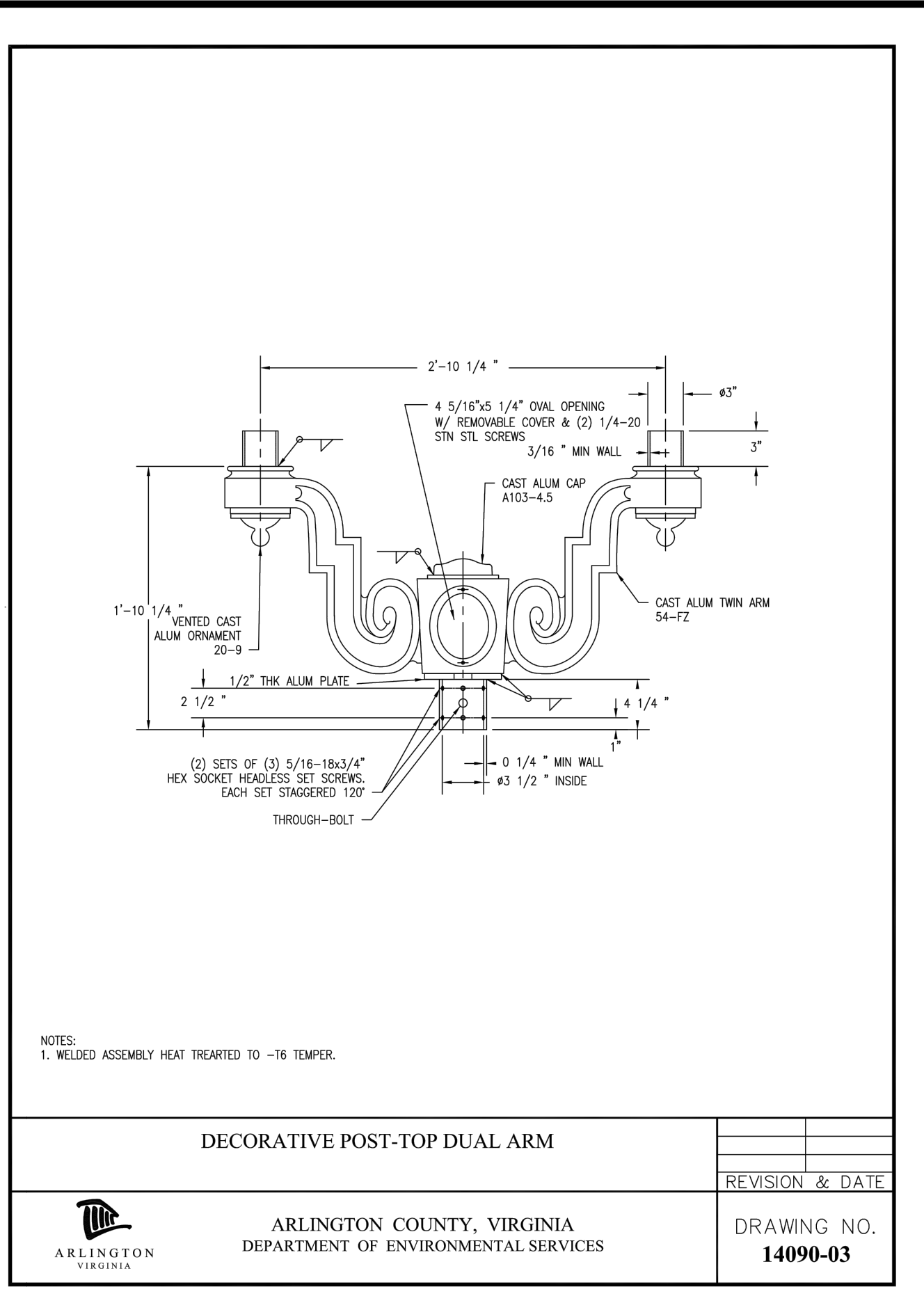
DECORATIVE POST-TOP ALUMINUM STREETLIGHT POLE WITH SINGLE POST-TOP LUMINAIRE		REV. 1	09/2019
		REVISION & DATE	
ARLINGTON COUNTY, VIRGINIA DEPARTMENT OF ENVIRONMENTAL SERVICES		DRAWING NO. 14112-01	



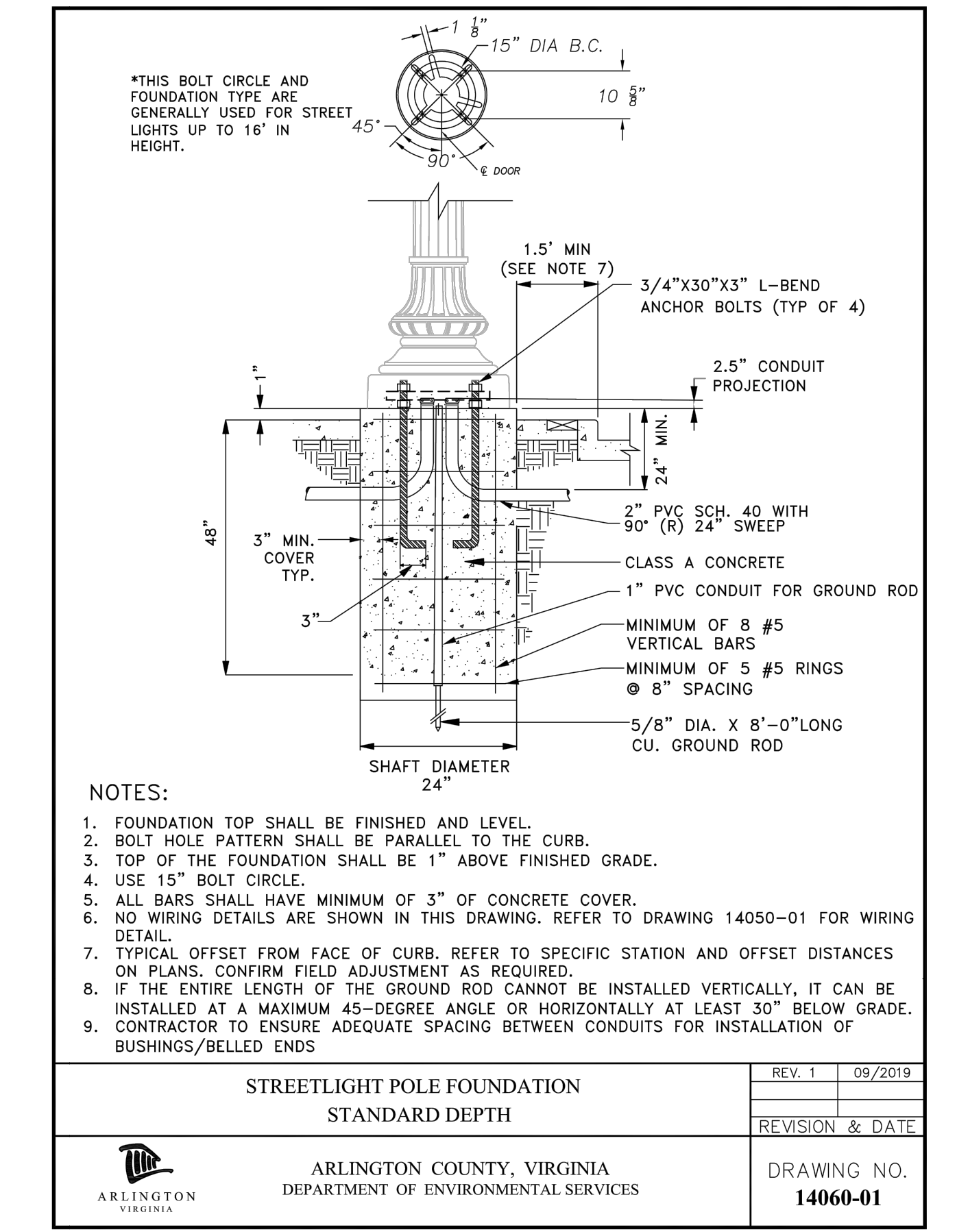
DECORATIVE POST-TOP LUMINAIRE			
		REVISION & DATE	
ARLINGTON COUNTY, VIRGINIA DEPARTMENT OF ENVIRONMENTAL SERVICES		DRAWING NO. 14110-01	



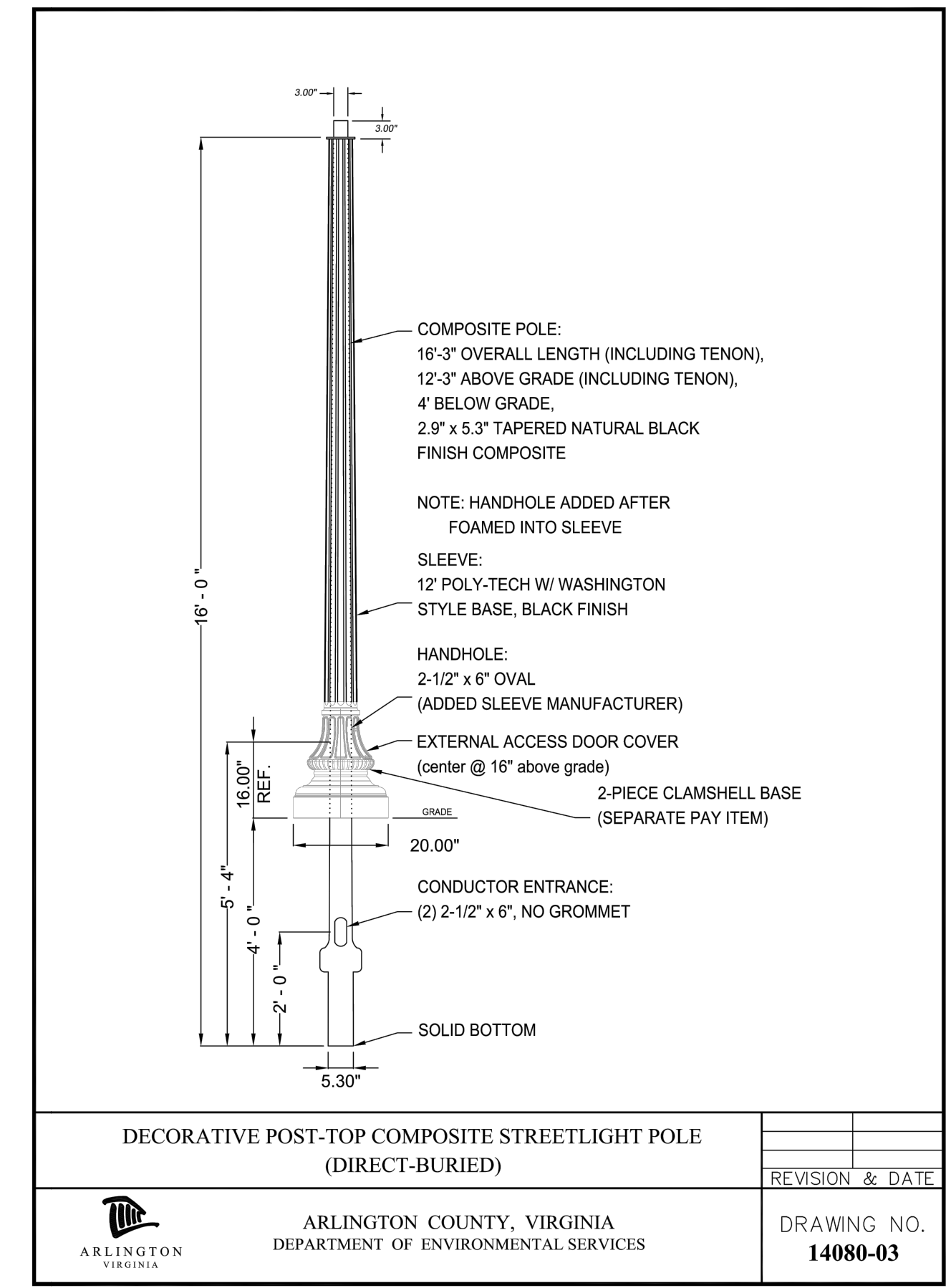
DECORATIVE POST-TOP LED ENGINE			
		REVISION & DATE	
ARLINGTON COUNTY, VIRGINIA DEPARTMENT OF ENVIRONMENTAL SERVICES		DRAWING NO. 14110-02	



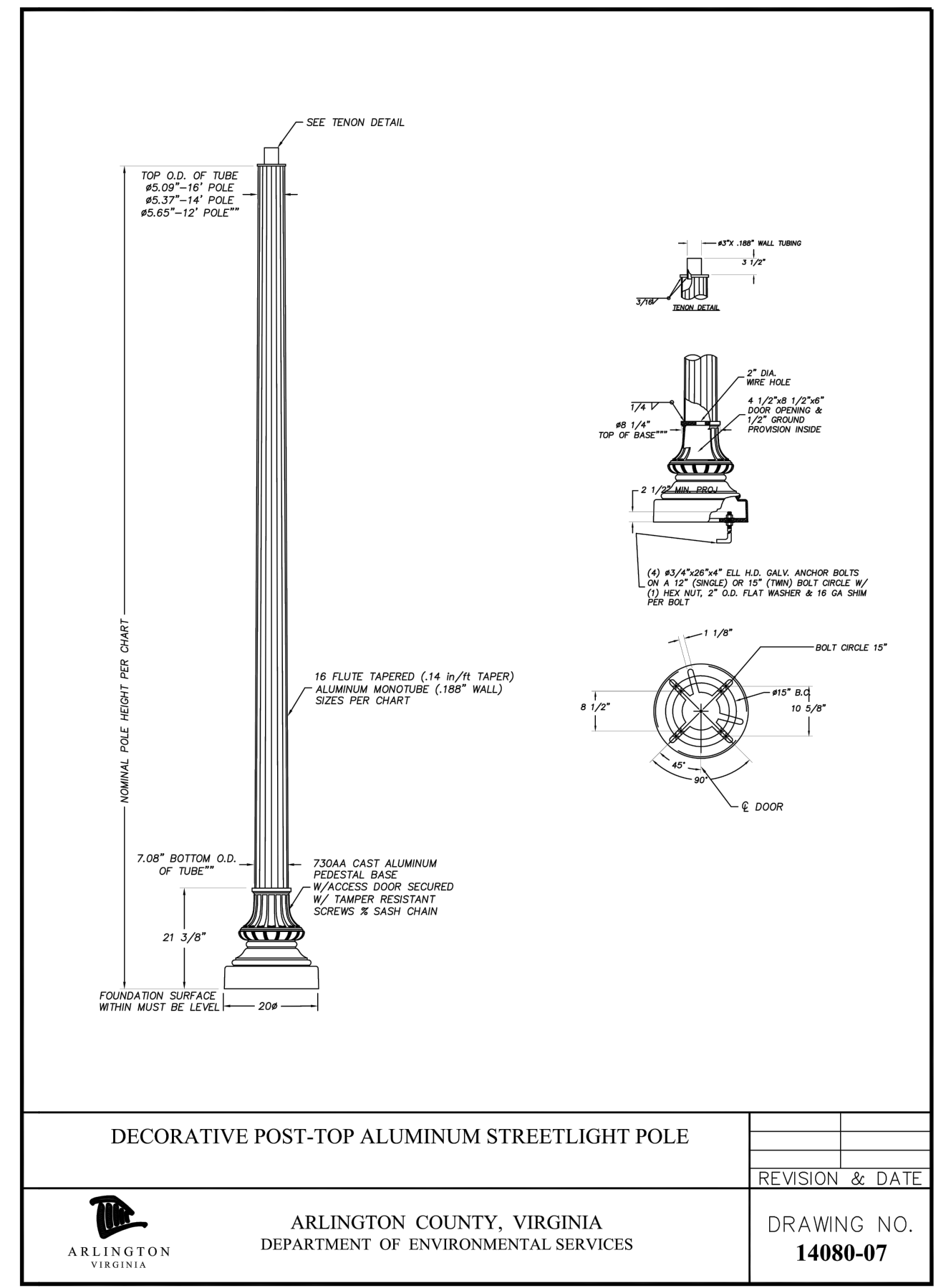
DECORATIVE POST-TOP DUAL ARM			
		REVISION & DATE	
ARLINGTON COUNTY, VIRGINIA DEPARTMENT OF ENVIRONMENTAL SERVICES		DRAWING NO. 14090-03	



STREETLIGHT POLE FOUNDATION STANDARD DEPTH		REV. 1	09/2019
		REVISION & DATE	
ARLINGTON COUNTY, VIRGINIA DEPARTMENT OF ENVIRONMENTAL SERVICES		DRAWING NO. 14060-01	



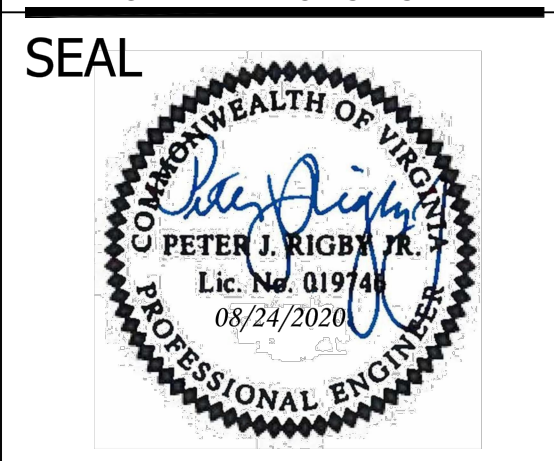
DECORATIVE POST-TOP COMPOSITE STREETLIGHT POLE (DIRECT-BURIED)			
		REVISION & DATE	
ARLINGTON COUNTY, VIRGINIA DEPARTMENT OF ENVIRONMENTAL SERVICES		DRAWING NO. 14080-03	



DECORATIVE POST-TOP ALUMINUM STREETLIGHT POLE			
		REVISION & DATE	
ARLINGTON COUNTY, VIRGINIA DEPARTMENT OF ENVIRONMENTAL SERVICES		DRAWING NO. 14080-07	



DEPARTMENT OF ENVIRONMENTAL SERVICES
 FACILITIES & ENGINEERING DIVISION
 ENGINEERING BUREAU
 2100 CLARENDON BOULEVARD, SUITE 813
 ARLINGTON, VA 22201
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 FAX: 703.228.3606

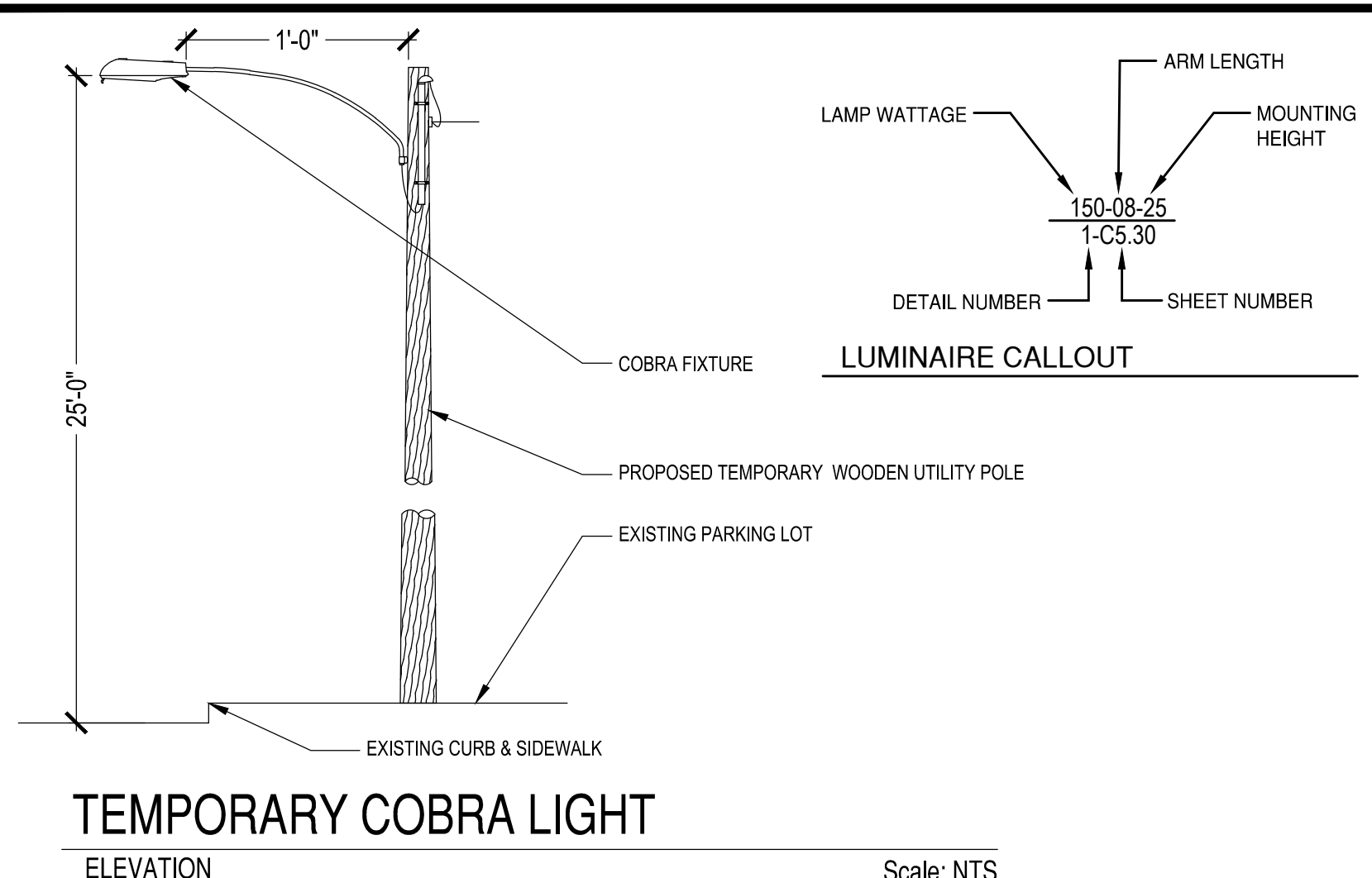


APPROVALS	DATE
<i>Amy Pflaum</i>	9/11/2020
QUALITY CONTROL ENGINEER	
<i>Kamal Taktak</i>	8.31.20
CONSTRUCTION MANAGEMENT SUPERVISOR	
<i>Jeff</i>	09.16.2020
WATER, SEWER, STREETS BUREAU CHIEF	
<i>Dennis M. Leach</i>	09/11/20
TRANSPORTATION DIRECTOR	
<i>Gabriela Koch</i>	August 24, 2020
PROJECT MANAGER	

REVISIONS	DATE

Project Name and Location
WASHINGTON BOULEVARD & 13TH STREET NORTH IMPROVEMENTS
 STREETLIGHT DETAILS

Designed: ABB
 Drawn: CDL
 Checked: MSD
 Miss Utility Transmittal #: N/A
 Filename: 39-LIT DETAILS\39-LIT DETAILS.DWG
 Path: Q:\DATA\B02\3 DESIGN_CAD\B0 100 PCT ARCH\REVISED APPROVED PLANS
 Plotted: September 17, 2020
 Plotted by: CL
 Scale: AS NOTED



TEMPORARY COBRA LIGHT
ELEVATION
Scale: NTS

STREET LIGHT INFORMATION (EXISTING)					
Light #	Location	Type	Light Source	Lamp Watts	Remarks
X-01	Washington Blvd - South Side	Cobra	HPS	250	To remain
X-02	Washington Blvd - South Side	Cobra	HPS	250	To remain
X-03	Washington Blvd - South Side	Cobra	HPS	400	Relocate from signal pole in island
X-04	Washington Blvd - South Side	Cobra	HPS	250	To remain
X-05	Washington Blvd - South Side	Double Globe Carlyle	LED	58	To remain
X-06	Washington Blvd - South Side	Double Globe Carlyle	LED	58	To remain
X-07	Washington Blvd - North Side	Double Globe Carlyle	LED	58	To remain
X-08	Washington Blvd - North Side	Cobra	HPS	250	Removed
X-09	Washington Blvd - North Side	Double Globe Carlyle	LED	58	To remain
X-10	Washington Blvd - North Side	Single Globe Carlyle	LED	58	To remain
X-11	Washington Blvd - North Side	Single Globe Carlyle	LED	57.59	To remain
X-12	Washington Blvd - North Side	Single Globe Carlyle	LED	57.59	Removed
X-13	Washington Blvd - North Side	Cobra	HPS	250	Relocated from signal pole in island
X-14	Washington Blvd - North Side	Single Globe Carlyle	LED	57	To remain
X-15	Washington Blvd - North Side	Cobra	HPS	100	To remain
X-16	Washington Blvd - North Side	Single Globe Carlyle	LED	57.59	To remain
X-17	Washington Blvd - North Side	Single Globe Carlyle	LED	57.59	To remain

Luminaire Schedule						
Symbol	Qty	Label	Arrangement	Total Lamp Lumens	LLF	Description
	5	Existing Double Globe Carlyle	BACK-BACK	N.A.	0.950	relume_u02_LTL_17612-16' pole
	8	Existing 250w Cobra DG	SINGLE	27500	0.650	315 25S R3 DG
	3	Existing Single Globe Carlyle	SINGLE	N.A.	0.950	relume_u02_LTL_17612-16' pole
	1	Existing 100w Cobra	SINGLE	9500	0.650	115 10S R3 DG
	3	Proposed 250w Cobra FG	SINGLE	29000	0.650	325 25S R3 FG HP - 33' MH

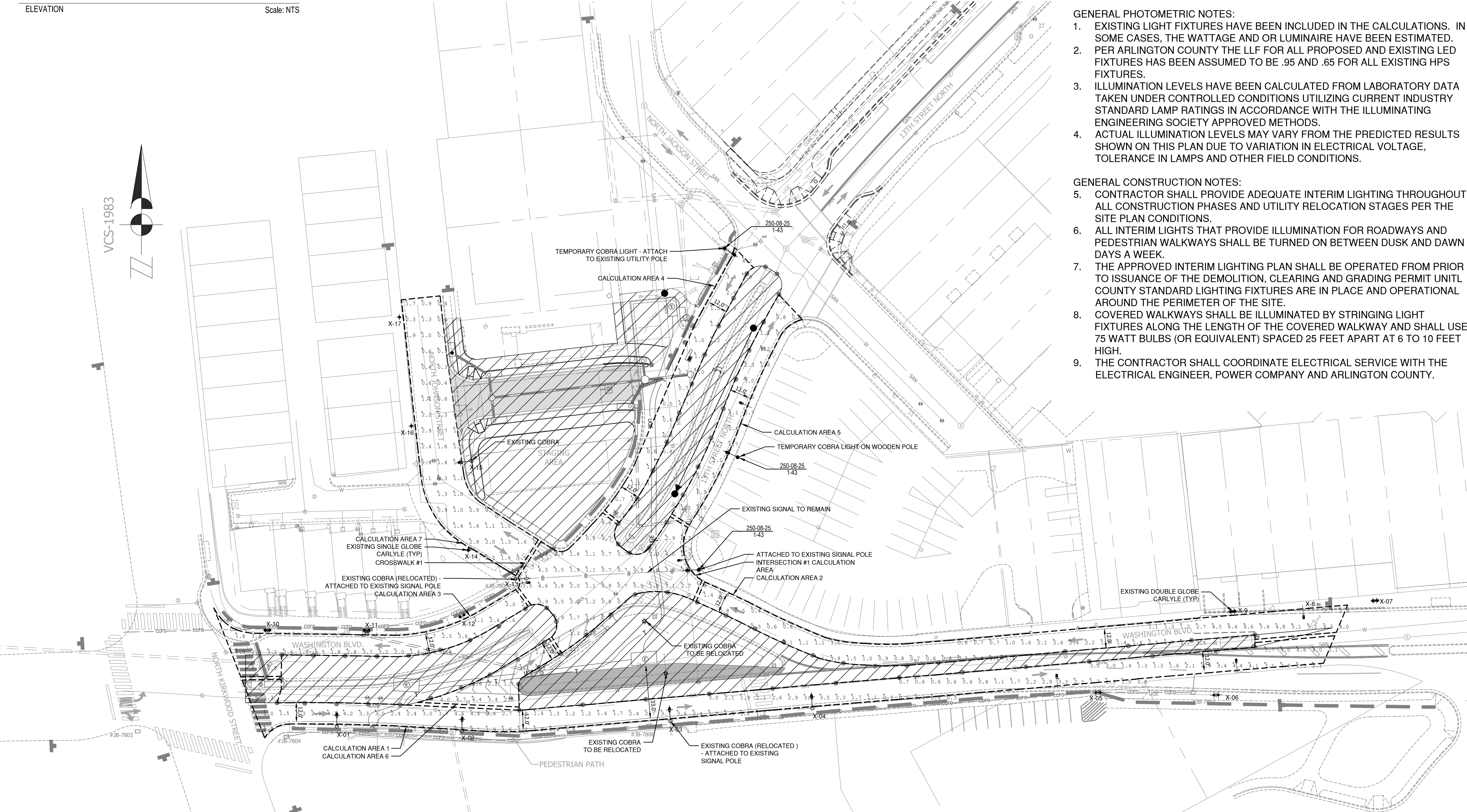
Calculation Summary						
Label	CalcType	Units	Avg	Max	Min	Avg/Min
Crosswalk 1	Illuminance	Fc	2.85	3.8	2.3	1.24
Intersection 1	Illuminance	Fc	1.98	4.6	0.6	3.30
Road 1	Illuminance	Fc	2.17	5.7	0.3	7.23
Road 2	Illuminance	Fc	1.97	6.6	0.4	4.93
Road 3	Illuminance	Fc	2.26	4.1	0.6	3.77
Road 4	Illuminance	Fc	1.36	4.2	0.5	2.72
Road 5	Illuminance	Fc	1.63	4.1	0.5	3.26
Road 6	Illuminance	Fc	2.57	4.7	1.1	2.34
Road 7	Illuminance	Fc	1.30	2.9	0.3	4.33

GENERAL PHOTOMETRIC NOTES:

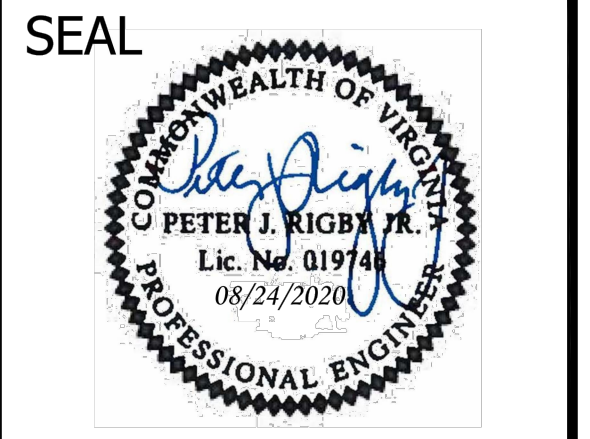
- EXISTING LIGHT FIXTURES HAVE BEEN INCLUDED IN THE CALCULATIONS. IN SOME CASES, THE WATTAGE AND OR LUMINAIRE HAVE BEEN ESTIMATED.
- PER ARLINGTON COUNTY THE LLF FOR ALL PROPOSED AND EXISTING LED FIXTURES HAS BEEN ASSUMED TO BE .95 AND .65 FOR ALL EXISTING HPS FIXTURES.
- ILLUMINATION LEVELS HAVE BEEN CALCULATED FROM LABORATORY DATA TAKEN UNDER CONTROLLED CONDITIONS UTILIZING CURRENT INDUSTRY STANDARD LAMP RATINGS IN ACCORDANCE WITH THE ILLUMINATING ENGINEERING SOCIETY APPROVED METHODS.
- ACTUAL ILLUMINATION LEVELS MAY VARY FROM THE PREDICTED RESULTS SHOWN ON THIS PLAN DUE TO VARIATION IN ELECTRICAL VOLTAGE, TOLERANCE IN LAMPS AND OTHER FIELD CONDITIONS.

GENERAL CONSTRUCTION NOTES:

- CONTRACTOR SHALL PROVIDE ADEQUATE INTERIM LIGHTING THROUGHOUT ALL CONSTRUCTION PHASES AND UTILITY RELOCATION STAGES PER THE SITE PLAN CONDITIONS.
- ALL INTERIM LIGHTS THAT PROVIDE ILLUMINATION FOR ROADWAYS AND PEDESTRIAN WALKWAYS SHALL BE TURNED ON BETWEEN DUSK AND DAWN 7 DAYS A WEEK.
- THE APPROVED INTERIM LIGHTING PLAN SHALL BE OPERATED FROM PRIOR TO ISSUANCE OF THE DEMOLITION, CLEARING AND GRADING PERMIT UNTIL COUNTY STANDARD LIGHTING FIXTURES ARE IN PLACE AND OPERATIONAL AROUND THE PERIMETER OF THE SITE.
- COVERED WALKWAYS SHALL BE ILLUMINATED BY STRINGING LIGHT FIXTURES ALONG THE LENGTH OF THE COVERED WALKWAY AND SHALL USE 75 WATT BULBS (OR EQUIVALENT) SPACED 25 FEET APART AT 6 TO 10 FEET HIGH.
- THE CONTRACTOR SHALL COORDINATE ELECTRICAL SERVICE WITH THE ELECTRICAL ENGINEER, POWER COMPANY AND ARLINGTON COUNTY.



DEPARTMENT OF ENVIRONMENTAL SERVICES
FACILITIES & ENGINEERING DIVISION
ENGINEERING BUREAU
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PHONE: 703.228.3629
FAX: 703.228.3606
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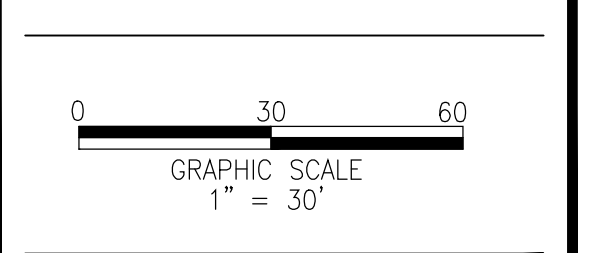


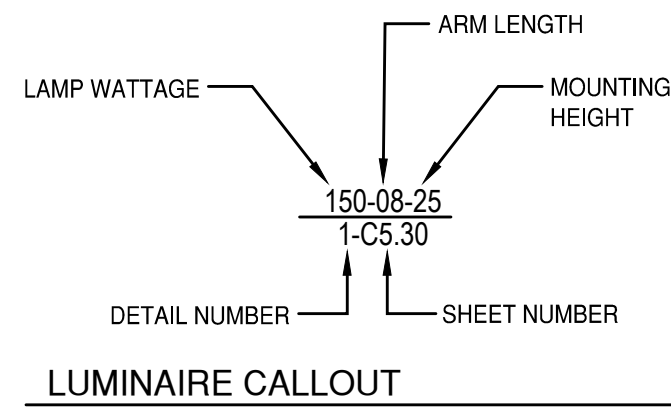
APPROVALS	DATE
<i>Amy Pflaum</i> QUALITY CONTROL ENGINEER	9/11/2020
<i>Kamal Taktak</i> CONSTRUCTION MANAGEMENT SUPERVISOR	8.31.20
<i>[Signature]</i> WATER, SEWER, STREETS BUREAU CHIEF	09.16.2020
<i>Dennis M. Leach</i> TRANSPORTATION DIRECTOR	09/11/20
<i>Gabriela Koch</i> PROJECT MANAGER	August 24, 2020

REVISIONS	DATE

Project Name and Location
WASHINGTON BOULEVARD & 13TH STREET NORTH IMPROVEMENTS
TEMPORARY STREET LIGHTING - PHASE 1
WASHINGTON BLVD. FROM NORTH KIRKWOOD ROAD TO FAIRFAX DRIVE
13TH STREET NORTH FROM WASHINGTON BLVD. TO NORTH JACKSON STREET & NORTH JOHNSON STREET FROM 13TH STREET NORTH TO 150' WEST

Designed: ABB
Drawn: CDL
Checked: MSD
Miss Utility Transmittal #: N/A
Filename: 40-TEMP PHOTOMETRIC MOT-PHASE 140-T
Path: \\ARL\REVISED APPROVED PLANS
Plotted: September 17, 2020
Plotted by: CL
Scale: 1"=30'





STREET LIGHT INFORMATION (EXISTING)					
Light #	Location	Type	Light Source	Lamp Watts	Remarks
X-01	Washington Blvd - South Side	Cobra	HPS	250	To remain
X-02	Washington Blvd - South Side	Cobra	HPS	250	To remain
X-03	Washington Blvd - South Side	Cobra	HPS	400	Relocated From signal pole in island
X-04	Washington Blvd - South Side	Cobra	HPS	250	To remain
X-05	Washington Blvd - South Side	Double Globe Carlyle	LED	58	To remain
X-06	Washington Blvd - South Side	Double Globe Carlyle	LED	58	To remain
X-07	Washington Blvd - North Side	Double Globe Carlyle	LED	58	To remain
X-08	Washington Blvd - North Side	Cobra	HPS	250	Removed
X-09	Washington Blvd - North Side	Double Globe Carlyle	LED	58	To remain
X-10	Washington Blvd - North Side	Single Globe Carlyle	LED	58	To remain
X-11	Washington Blvd - North Side	Single Globe Carlyle	LED	57.59	To remain
X-12	Washington Blvd - North Side	Single Globe Carlyle	LED	57.59	Removed
X-13	Washington Blvd - North Side	Cobra	HPS	250	Relocated from signal pole in island
X-14	Washington Blvd - North Side	Single Globe Carlyle	LED	57	To remain
X-15	Washington Blvd - North Side	Cobra	HPS	100	To remain
X-16	Washington Blvd - North Side	Single Globe Carlyle	LED	57.59	To remain
X-17	Washington Blvd - North Side	Single Globe Carlyle	LED	57.59	To remain

Luminaire Schedule						
Symbol	Qty	Label	Arrangement	Total Lamp Lumens	LLF	Description
	5	Existing Double Globe Carlyle	BACK-BACK	N.A.	0.950	relume_ua2_LTL_17612-16' pole
	8	Existing 250w Cobra DG	SINGLE	27500	0.650	315 25S R3 DG
	3	Existing Single Globe Carlyle	SINGLE	N.A.	0.950	relume_ua2_LTL_17612-16' pole
	1	Existing 100w Cobra	SINGLE	9500	0.650	115 10S R3 DG
	1	Proposed 250w Cobra FG	SINGLE	29000	0.650	325 25S R3 FG HP (33' MH)
	4	Single Globe Carlyle	SINGLE	N.A.	0.950	relume_ua2_LTL_17612-16' pole

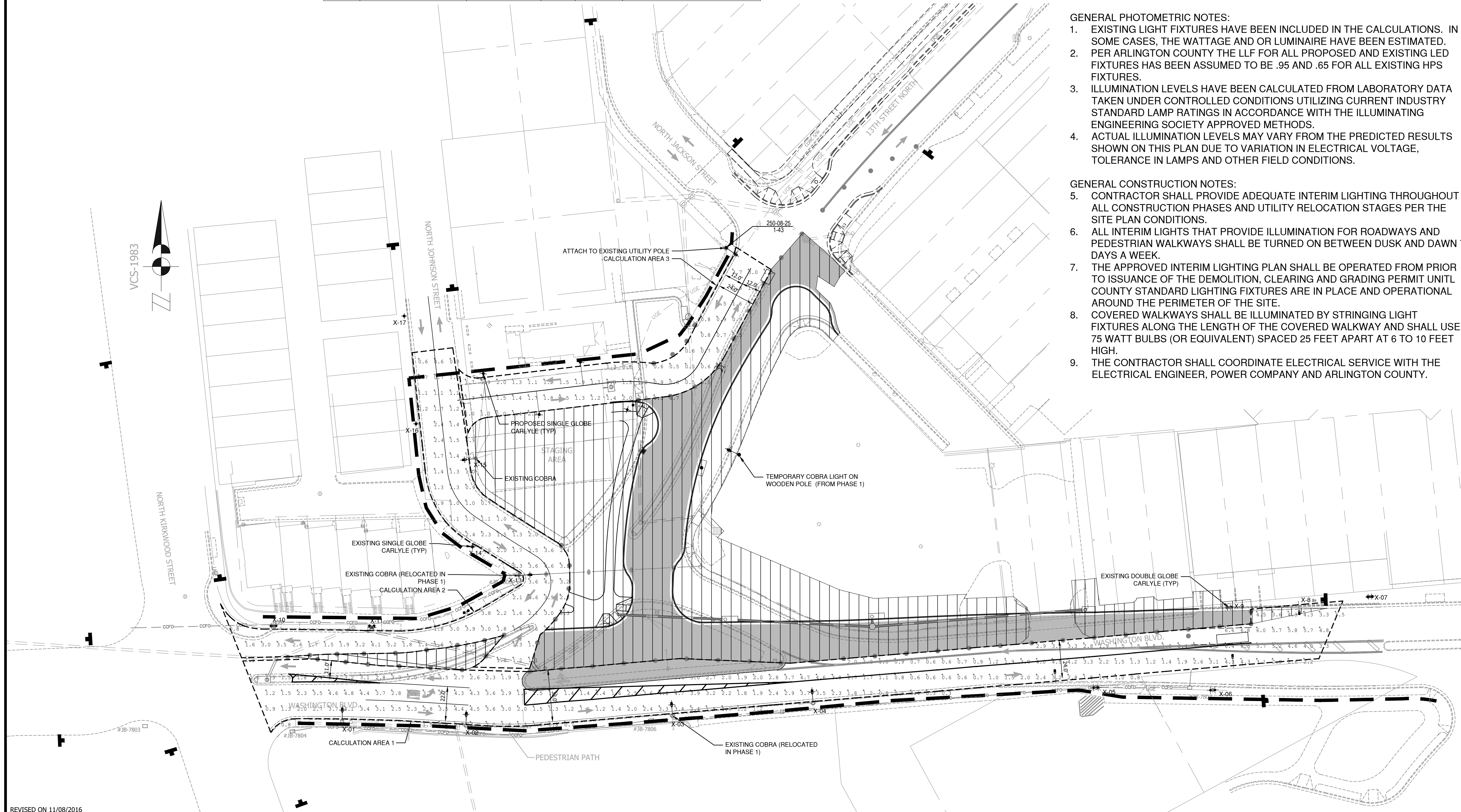
Calculation Summary						
Label	CalcType	Units	Avg	Max	Min	Avg/Min
Road 1	Illuminance	Fc	2.53	6.8	0.3	8.43
Road 2	Illuminance	Fc	1.94	4.7	0.6	3.23
Road 3	Illuminance	Fc	1.28	3.7	0.5	2.56

GENERAL PHOTOMETRIC NOTES:

- EXISTING LIGHT FIXTURES HAVE BEEN INCLUDED IN THE CALCULATIONS. IN SOME CASES, THE WATTAGE AND OR LUMINAIRE HAVE BEEN ESTIMATED.
- PER ARLINGTON COUNTY THE LLF FOR ALL PROPOSED AND EXISTING LED FIXTURES HAS BEEN ASSUMED TO BE .95 AND .65 FOR ALL EXISTING HPS FIXTURES.
- ILLUMINATION LEVELS HAVE BEEN CALCULATED FROM LABORATORY DATA TAKEN UNDER CONTROLLED CONDITIONS UTILIZING CURRENT INDUSTRY STANDARD LAMP RATINGS IN ACCORDANCE WITH THE ILLUMINATING ENGINEERING SOCIETY APPROVED METHODS.
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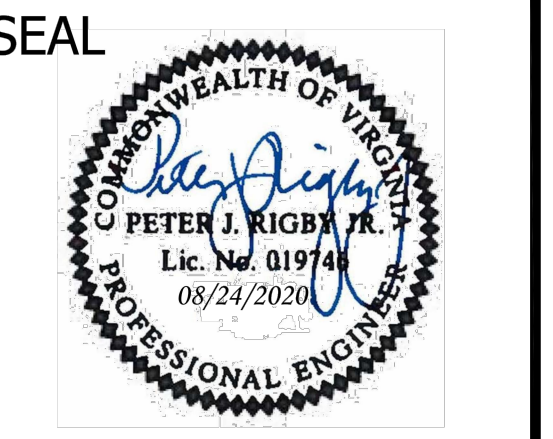
GENERAL CONSTRUCTION NOTES:

- CONTRACTOR SHALL PROVIDE ADEQUATE INTERIM LIGHTING THROUGHOUT ALL CONSTRUCTION PHASES AND UTILITY RELOCATION STAGES PER THE SITE PLAN CONDITIONS.
- ALL INTERIM LIGHTS THAT PROVIDE ILLUMINATION FOR ROADWAYS AND PEDESTRIAN WALKWAYS SHALL BE TURNED ON BETWEEN DUSK AND DAWN 7 DAYS A WEEK.
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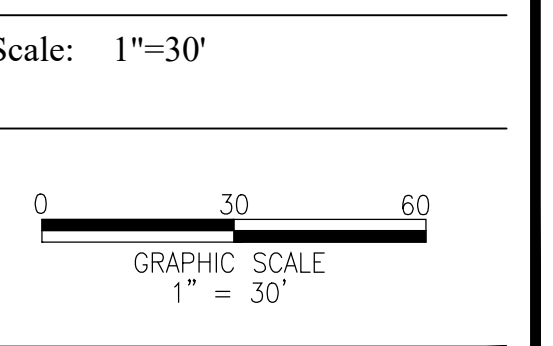
APPROVALS	DATE
<i>Amy Pflaum</i> QUALITY CONTROL ENGINEER	9/11/2020
<i>Kamal Taktab</i> CONSTRUCTION MANAGEMENT SUPERVISOR	8.31.20
<i>[Signature]</i> WATER, SEWER, STREETS BUREAU CHIEF	09.16.2020
<i>Dennis M. Leach</i> TRANSPORTATION DIRECTOR	09/11/20
<i>Gabriela Koch</i> PROJECT MANAGER	August 24, 2020

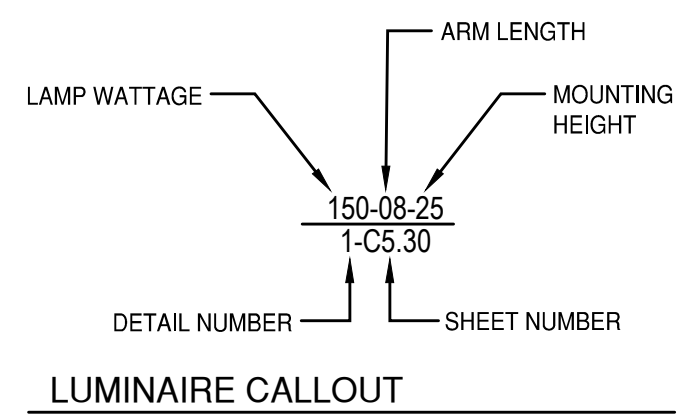
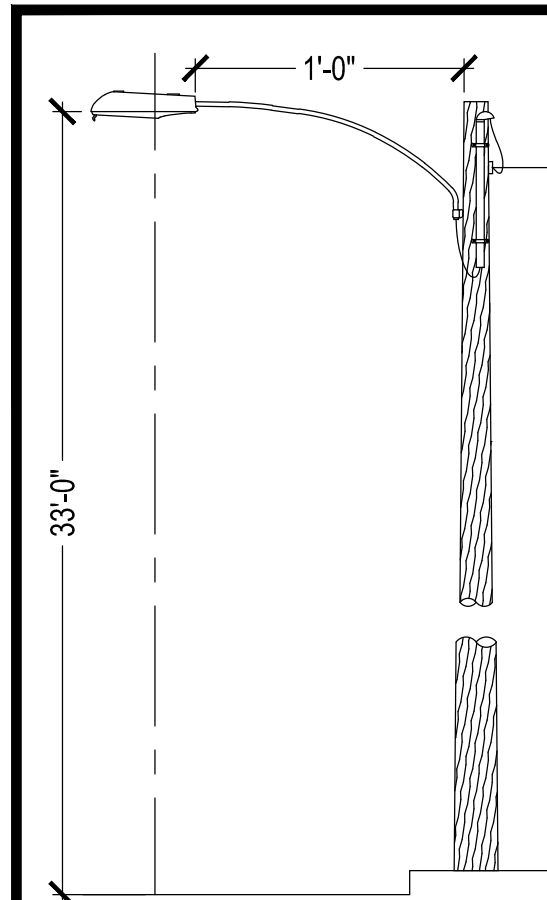
REVISIONS	DATE

Project Name and Location
WASHINGTON BOULEVARD & 13TH STREET NORTH IMPROVEMENTS
 TEMPORARY STREET LIGHTING - PHASE 2
 WASHINGTON BLVD. FROM NORTH KIRKWOOD ROAD TO FAIRFAX DRIVE
 13TH STREET NORTH FROM WASHINGTON BLVD. TO NORTH JACKSON STREET & NORTH JOHNSON STREET FROM 13TH STREET NORTH TO 150' WEST

Designed: ABB
 Drawn: CDL
 Checked: MSD
 Miss Utility Transmittal #: N/A

Filename: 41-TEMP PHOTOMETRIC MOT-PHASE 241-T
 Path: Q:\DATA\8023 DESIGN_CAD\80100 PCT ARCHIVE\REVISED APPROVED PLANS
 Plotted: September 17, 2020
 Plotted by: CL





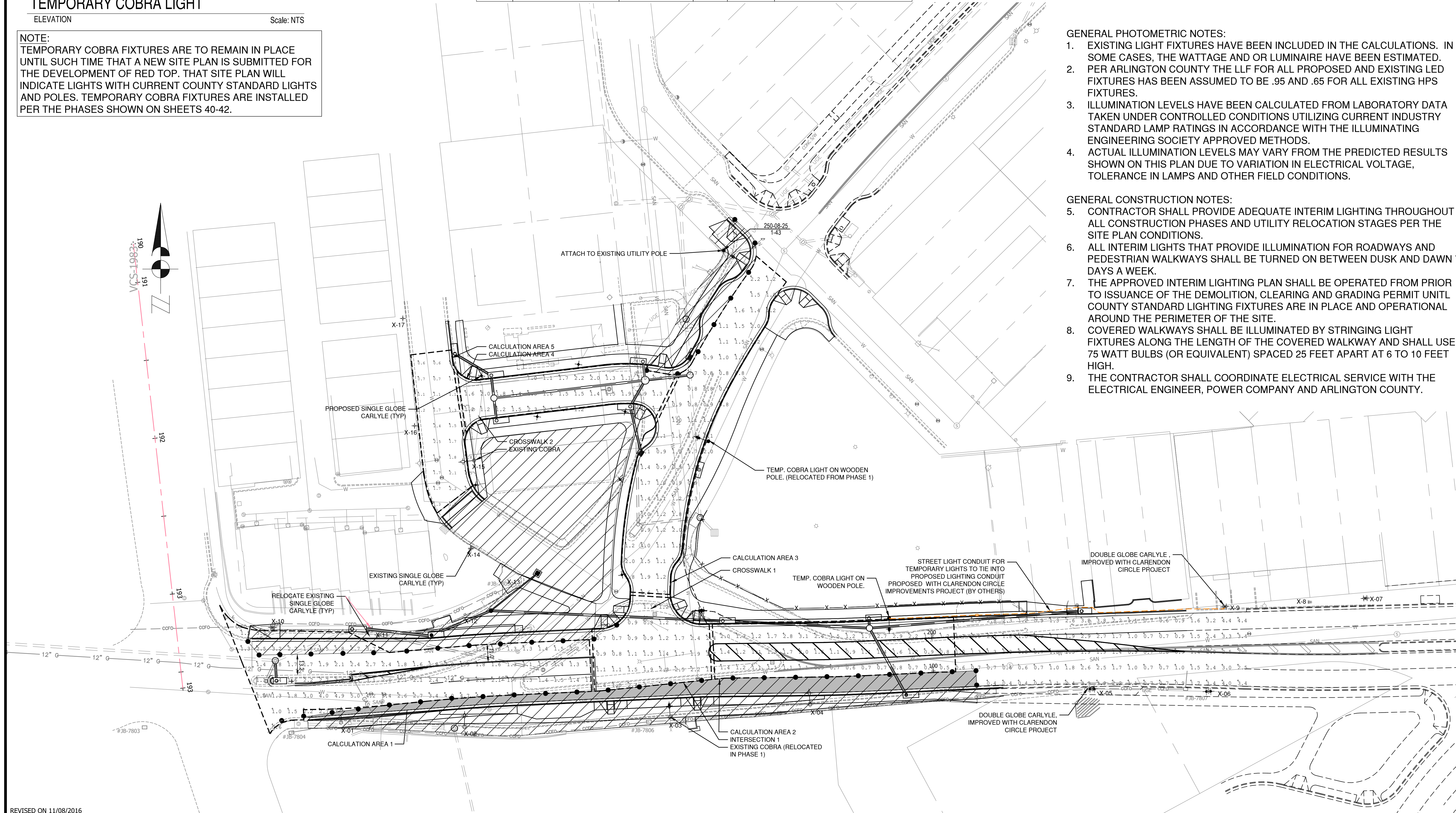
STREET LIGHT INFORMATION (EXISTING)					
Light #	Location	Type	Light Source	Lamp Watts	Remarks
X-01	Washington Blvd - South Side	Cobra	HPS	250	To remain
X-02	Washington Blvd - South Side	Cobra	HPS	250	To remove
X-03	Washington Blvd - South Side	Cobra	HPS	400	Relocated From signal pole in island
X-04	Washington Blvd - South Side	Cobra	HPS	250	To remove
X-05	Washington Blvd - South Side	Double Globe Carlyle	LED	58	To remain
X-06	Washington Blvd - South Side	Double Globe Carlyle	LED	58	To remain
X-07	Washington Blvd - North Side	Double Globe Carlyle	LED	58	To remain
X-08	Washington Blvd - North Side	Cobra	HPS	250	Removed
X-09	Washington Blvd - North Side	Double Globe Carlyle	LED	58	To remain
X-10	Washington Blvd - North Side	Single Globe Carlyle	LED	58	To remain
X-11	Washington Blvd - North Side	Single Globe Carlyle	LED	57.59	To remain
X-12	Washington Blvd - North Side	Single Globe Carlyle	LED	57.59	Removed
X-13	Washington Blvd - North Side	Cobra	HPS	250	To remove
X-14	Washington Blvd - North Side	Single Globe Carlyle	LED	57	To remain
X-15	Washington Blvd - North Side	Cobra	HPS	100	To remain
X-16	Washington Blvd - North Side	Single Globe Carlyle	LED	57.59	To remain
X-17	Washington Blvd - North Side	Single Globe Carlyle	LED	57.59	To remain

Luminaire Schedule						
Symbol	Qty	Label	Arrangement	Total Lamp Lumens	LLF	Description
(Symbol)	10	Single Globe Carlyle	SINGLE	N.A.	0.950	relume_u2_LTL_17612-16' pole
(Symbol)	7	Double Globe Carlyle	BACK-BACK	N.A.	0.950	relume_u2_LTL_17612-16' pole
(Symbol)	5	Existing Double Globe Carlyle	BACK-BACK	N.A.	0.950	relume_u2_LTL_17612-16' pole
(Symbol)	5	Existing 250w Cobra DG	SINGLE	27500	0.650	315 25S R3 DG
(Symbol)	3	Existing Single Globe Carlyle	SINGLE	N.A.	0.950	relume_u2_LTL_17612-16' pole
(Symbol)	2	Proposed 250w Cobra FG	SINGLE	29000	0.650	325 25S R3 FG HP (33' MH)
(Symbol)	1	Existing 100w Cobra	SINGLE	9500	0.650	115 10S R3 DG

Calculation Summary						
Label	CalcType	Units	Avg	Max	Min	Avg/Min
Crosswalk 1	Illuminance	Fc	1.20	1.5	1.0	1.20
Crosswalk 2	Illuminance	Fc	1.53	2.1	1.0	1.53
Intersection 1	Illuminance	Fc	1.68	4.2	0.7	2.40
Road 1	Illuminance	Fc	2.17	5.0	0.6	3.62
Road 2	Illuminance	Fc	1.61	4.4	0.4	4.03
Road 3	Illuminance	Fc	1.25	2.2	0.7	1.79
Road 4	Illuminance	Fc	1.49	2.3	0.7	2.13
Road 5	Illuminance	Fc	1.57	2.7	0.6	2.62

TEMPORARY COBRA LIGHT
ELEVATION Scale: NTS

NOTE:
TEMPORARY COBRA FIXTURES ARE TO REMAIN IN PLACE UNTIL SUCH TIME THAT A NEW SITE PLAN IS SUBMITTED FOR THE DEVELOPMENT OF RED TOP. THAT SITE PLAN WILL INDICATE LIGHTS WITH CURRENT COUNTY STANDARD LIGHTS AND POLES. TEMPORARY COBRA FIXTURES ARE INSTALLED PER THE PHASES SHOWN ON SHEETS 40-42.

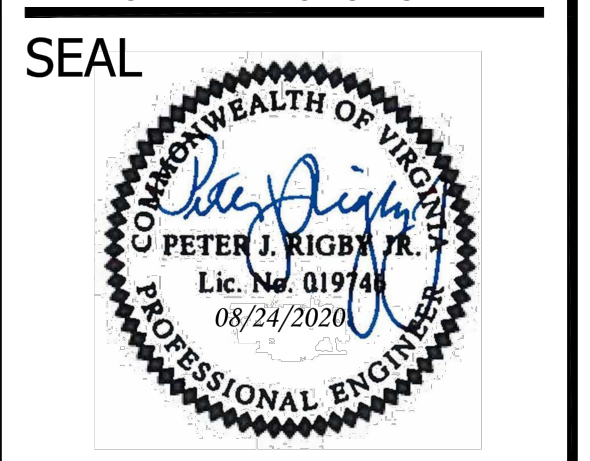


- GENERAL PHOTOMETRIC NOTES:**
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ENGINEERING BUREAU
2100 CLARENDON BOULEVARD, SUITE 813
ARLINGTON, VA 22201
PHONE: 703.228.3629
FAX: 703.228.3606



APPROVALS	DATE
<i>Amy Pflaum</i> QUALITY CONTROL ENGINEER	9/11/2020
<i>Kamal Taktak</i> CONSTRUCTION MANAGEMENT SUPERVISOR	8.31.20
<i>[Signature]</i> WATER, SEWER, STREETS BUREAU CHIEF	09.16.2020
<i>Dennis M. Leach</i> TRANSPORTATION DIRECTOR	09/11/20
<i>Gabriela Koch</i> PROJECT MANAGER	August 24, 2020

REVISIONS	DATE

Project Name and Location
WASHINGTON BOULEVARD & 13TH STREET NORTH IMPROVEMENTS
TEMPORARY STREET LIGHTING - PHASE 3 (INTERIM CONDITION)
WASHINGTON BLVD. FROM NORTH KIRKWOOD ROAD TO FAIRFAX DRIVE
13TH STREET NORTH FROM WASHINGTON BLVD. TO NORTH JACKSON STREET & NORTH JOHNSON STREET FROM 13TH STREET NORTH TO 150' WEST

Designed: ABB
Drawn: CDL
Checked: MSD
Miss Utility Transmittal #: N/A
Filename: 42-TEMP PHOTOMETRIC MOT-PHASE 342-T
Path: Q:\DATA\2023\DESIGN_CD\090 100 PCT ARCHIVE\REVISED APPROVED PLANS
Plotted: September 17, 2020
Plotted by: CL
Scale: 1"=30'

