



ENGINEER  
DEPARTMENT OF  
ENVIRONMENTAL SERVICES

Facilities and Engineering Division  
Engineering Bureau  
2100 Clarendon Boulevard, Suite 813  
Arlington, VA 22201  
Phone: 703.228.3629 Fax: 703.228.3606  
www.arlingtonva.us

OWNER  
DES/DTD/PLAN

CONTRACTOR  
TO BE DETERMINED

# COLUMBIA PIKE ROUTE 244 MULTIMODAL STREET IMPROVEMENTS SEGMENT F SOUTH OAKLAND STREET TO SOUTH WAKEFIELD STREET

SWM#15-2071

## GENERAL NOTES:

### GENERAL CONSTRUCTION NOTES

1. ALL ELEVATIONS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).

2. ALL CONSTRUCTION WORK FOR THIS PROJECT SHALL CONFORM TO THE ARLINGTON COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES, CONSTRUCTION STANDARDS AND SPECIFICATIONS, THE ARLINGTON COUNTY PARK DESIGN STANDARDS, THE ARLINGTON COUNTY TRAFFIC SIGNAL AND STREETLIGHT SPECIFICATIONS, AND WHERE APPLICABLE THE VIRGINIA DEPARTMENT OF TRANSPORTATION (VDOT) ROAD AND BRIDGE SPECIFICATIONS, AND ROAD AND BRIDGE STANDARDS. THE LATEST EDITIONS OF EACH RELEVANT MANUAL SHALL BE USED.

3. ALL CONSTRUCTION AND WORK ACTIVITIES SHALL COMPLY WITH THE VIRGINIA WORK AREA PROTECTION MANUAL AND ALL OTHER RELEVANT WORK SAFETY REQUIREMENTS, LATEST EDITIONS.

4. THE CONTRACTOR SHALL CONTACT "MISS UTILITY" AT 811 FOR MARKING THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES (i.e. WATER, SEWER, GAS, TELEPHONE, ELECTRIC, AND CABLE TV) AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION OR CONSTRUCTION. THE CONTRACTOR IS REQUIRED TO IDENTIFY AND PROTECT ALL OTHER UTILITY LINES FOUND IN THE WORK SITE AREA BELONGING TO OTHER OWNERS THAT ARE NOT MEMBERS OF "MISS UTILITY". PRIVATE WATER AND/OR SEWER LATERALS WILL NOT BE MARKED BY MISS UTILITY OR THE COUNTY. THE CONTRACTOR WILL BE EXPECTED TO LOCATE AND PROTECT THESE SERVICES DURING CONSTRUCTION.

5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LAYING OUT THE WORK AND SHALL RETAIN A PROFESSIONAL LAND SURVEYOR LICENSED IN THE COMMONWEALTH OF VIRGINIA TO PROVIDE ALL NECESSARY CONSTRUCTION LAYOUTS AND ESTABLISH ALL CONTROL LINES, GRADES, AND ELEVATION DURING CONSTRUCTION. THE CONTRACTOR SHALL SUBMIT A COPY OF ALL CUT SHEETS FOR REVIEW, PER THE SPECIFICATIONS. THE COST OF ALL NECESSARY SURVING SERVICES SHALL BE CONSIDERED INCIDENTAL TO THE WORK AND, UNLESS OTHERWISE SPECIFIED, THE COST SHALL BE INCORPORATED INTO THE COSTS FOR RELEVANT ITEMS.

6. 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. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE EXISTING UTILITIES AND THE RELATED STRUCTURES. ALL EXISTING UTILITY SYSTEMS SHALL BE PROTECTED TO PREVENT DAMAGE DURING THE CONTRACTOR'S OPERATIONS. ANY SYSTEM DAMAGED SHALL BE PROMPTLY REPAIRED AT NO COST TO THE OWNER.

THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE PROJECT OFFICER OF ANY DISCREPANCIES BETWEEN ACTUAL FIELD CONDITIONS AND THE APPROVED PLANS.

7. 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.

8. THE CONTRACTOR SHALL PROVIDE ADA COMPLIANT ACCESS THROUGH OR AROUND THE SITE AT ALL TIMES AND SHALL ENSURE THE SAFETY OF ALL THOSE PASSING THROUGH OR ADJACENT TO THE SITE.

### STORMWATER AND ENVIRONMENTAL PROTECTION

9. THE CONTRACTOR SHALL PROTECT EXISTING DRAINAGE FACILITIES (TO INCLUDE CURB AND GUTTER) AND WATERWAYS FROM ADVERSE IMPACTS PER SECTION 01500 OF THE ARLINGTON COUNTY STANDARDS & SPECIFICATIONS.

10. ANY WORK WITHIN A RESOURCE PROTECTION AREA (RPA) SHALL COMPLY WITH THE REQUIREMENTS OF CHAPTER 61 OF THE COUNTY CODE (THE CHESAPEAKE BAY PRESERVATION ORDINANCE).

### TREE PROTECTION

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

12. NO TREES SHALL BE REMOVED OR OTHERWISE AFFECTED UNLESS CLEARLY MARKED ON THE APPROVED PLAN.

13. TREES SHALL BE PROTECTED PER THE REQUIREMENTS OF SECTION 02100 - CLEARING AND GRUBBING

### TRAFFIC CONTROL

14. CONTRACTOR SHALL NOTIFY THE PROJECT OFFICER AT LEAST 3 WORKING DAYS PRIOR TO DISTURBING ANY EXISTING, OR INSTALLING ANY NEW, TRAFFIC SIGNS, SIGNALS, OR OTHER TRAFFIC CONTROL DEVICES.

15. THE CONTRACTOR SHALL PREMARK THE LAYOUT OF ANY PERMANENT TRAFFIC CONTROL STRIPING, INDICATING THE PROPOSED LOCATION AND TYPE OF MARKING TO BE INSTALLED. THE PREMARKING MAY CONSIST OF 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.

16. THE CONTRACTOR SHALL SUBMIT ANY REQUESTS FOR TEMPORARY "NO PARKING" RESTRICTIONS TO THE PROJECT OFFICER AT LEAST 3 WORKING DAYS PRIOR TO THE DESIRED ONSET OF RESTRICTIONS.

17. THE CONTRACTOR SHALL PRESERVE ALL BUS STOPS, INCLUDING MAINTAINING ADEQUATE ACCESS THROUGH AND ADJACENT TO THE CONSTRUCTION FOR BUSES AND THEIR PASSENGERS. THE CONTRACTOR SHALL NOT CLOSE, RELOCATE, OR OTHERWISE MODIFY A BUS STOP WITHOUT PRIOR REQUEST OF THE PROJECT OFFICER. TYPICALLY ANY RELOCATION OR CLOSURE OF A BUS STOP WILL REQUIRE AT LEAST TWO WEEKS ADVANCE NOTICE FOR COORDINATION WITH THE COUNTY'S BUS STOP COORDINATOR.

18. WHEN CONDITIONS WARRANT DUE TO TRAFFIC VOLUMES, PATTERNS, OR SPECIAL EVENTS, THE COUNTY MAY SUSPEND OR OTHERWISE DIRECT THE CONTRACTOR'S ACTIVITIES TO PROTECT THE PUBLIC AND OR THE COUNTY'S TRANSPORTATION NETWORK.

### WATER DISTRIBUTION, STORM, AND SANITARY SEWER SYSTEMS

19. 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 3 WORKING DAYS IN ADVANCE OF THE REQUIRED OPERATION.

20. 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.

21. STORM OR SANITARY SEWERS AND APPURTENANCES TO BE ABANDONED SHALL BE EXCAVATED AND REMOVED, OR ABANDONED AS DETAILED IN THE COUNTY'S STANDARDS AND SPECIFICATIONS.

### WORK WITHIN A VDOT RIGHT OF WAY

22. WHEN REQUIRED FOR THE WORK, AN APPROVED VIRGINIA DEPARTMENT OF TRANSPORTATION (VDOT) PERMIT WILL BE PROVIDED BY THE COUNTY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADHERING TO AND IMPLEMENTING ALL PERMIT REQUIREMENTS.

23. THE CONTRACTOR SHALL HAVE AT LEAST ONE EMPLOYEE ON-SITE CERTIFIED BY VDOT IN BASIC WORK ZONE TRAFFIC CONTROL AND WILL BE RESPONSIBLE FOR THE PLACEMENT, MAINTENANCE AND REMOVAL OF WORK ZONE TRAFFIC CONTROL DEVICES WITHIN THE PROJECT LIMITS IN COMPLIANCE WITH THE PERMIT REQUIREMENTS AND CONDITIONS. THE APPROVED PLANS, SPECIFICATIONS, THE VIRGINIA WORK AREA PROTECTION MANUAL AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

24. THE CONTRACTOR SHALL HAVE AT LEAST ONE EMPLOYEE ON-SITE WHO HAS COMPLETED VDOT EROSION AND SEDIMENT CONTROL CONTRACTOR CERTIFICATION TRAINING AND WILL BE RESPONSIBLE FOR INSURING COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL EROSION AND SEDIMENT CONTROL REGULATIONS DURING ALL LAND DISTURBANCE ACTIVITIES.

### DESIGN CHARACTERISTICS

ROAD CLASSIFICATION	ADT (2014)	ADT PROJECTION (2038)	PROJECT COMPLETION	DESIGN YEAR
URBAN OTHER PRINCIPAL ARTERIAL (2014, VDOT)	25,000 VPD	33,000 VPD	2020 (OVERALL) 2018 (SEGMENT)	2038

DESIGN SPEED = 30 M.P.H.  
TYPE A ARTERIAL: EAST OF S. GEORGE MASON TO WEST OF S. QUINCY  
TYPE D ARTERIAL: S. WAKEFIELD TO WEST OF S. GEORGE MASON, EAST OF S. QUINCY TO S. OAKLAND

### SHEET NO. DESCRIPTION

F1.1-F1.2	TITLE AND COVER SHEET
F2.1-F2.4	GENERAL NOTES AND DETAILS
F3.1-F3.7	TYPICAL SECTIONS
F4	INTENTIONALLY OMITTED
F5.1-F5.4	EXISTING CONDITIONS
F6.1-F6.4	PHASE 1 EROSION CONTROL AND DEMOLITION PLAN
F7.1-F7.6	GEOMETRY AND GRADING PLANS
F8.1-F8.4	DRAINAGE AREA MAPS
F9.1-F9.4	PHASE 2 EROSION AND SEDIMENT CONTROL
F10.1-F10.13.4	ROADWAY PLAN AND PROFILES
F11.1-F11.6.3	STORMWATER PROFILES AND CALCULATIONS
F12.1-F12.8	SANITARY SEWER PROFILES
F13.1-F13.10	WATERLINE PLAN AND PROFILES
F14.1-F14.10.3	LANDSCAPE CONSERVATION PLAN
F15.1-F15.13.3	STREET LIGHTING PLAN
F16.1-F16.33	ROADWAY CROSS SECTIONS
F17.1-F17.5	TRAFFIC SIGNAL MODIFICATION PLAN
F18.1-F18.7	SIGNING AND PAVEMENT MARKING PLAN
F19.1-F19.31	MAINTENANCE OF TRAFFIC PLAN
F20.1-F20.4	WALL ELEVATION PROFILES
F21.1-F21.48	DRY UTILITY PLAN AND PROFILES
F22.1-F22.2	INTERSECTION SIGHT DISTANCE PLAN
F23.1-F23.3	TRANSIT STOP LAYOUT PLANS

I CERTIFY THAT THIS PROJECT WAS BUILT IN SUBSTANTIAL CONFORMANCE WITH THIS PLAN, UNLESS DULY NOTED IN THE ABOVE REVISION BLOCK.

PROJECT MANAGER

DATE

CONSTRUCTION MANAGER

DATE

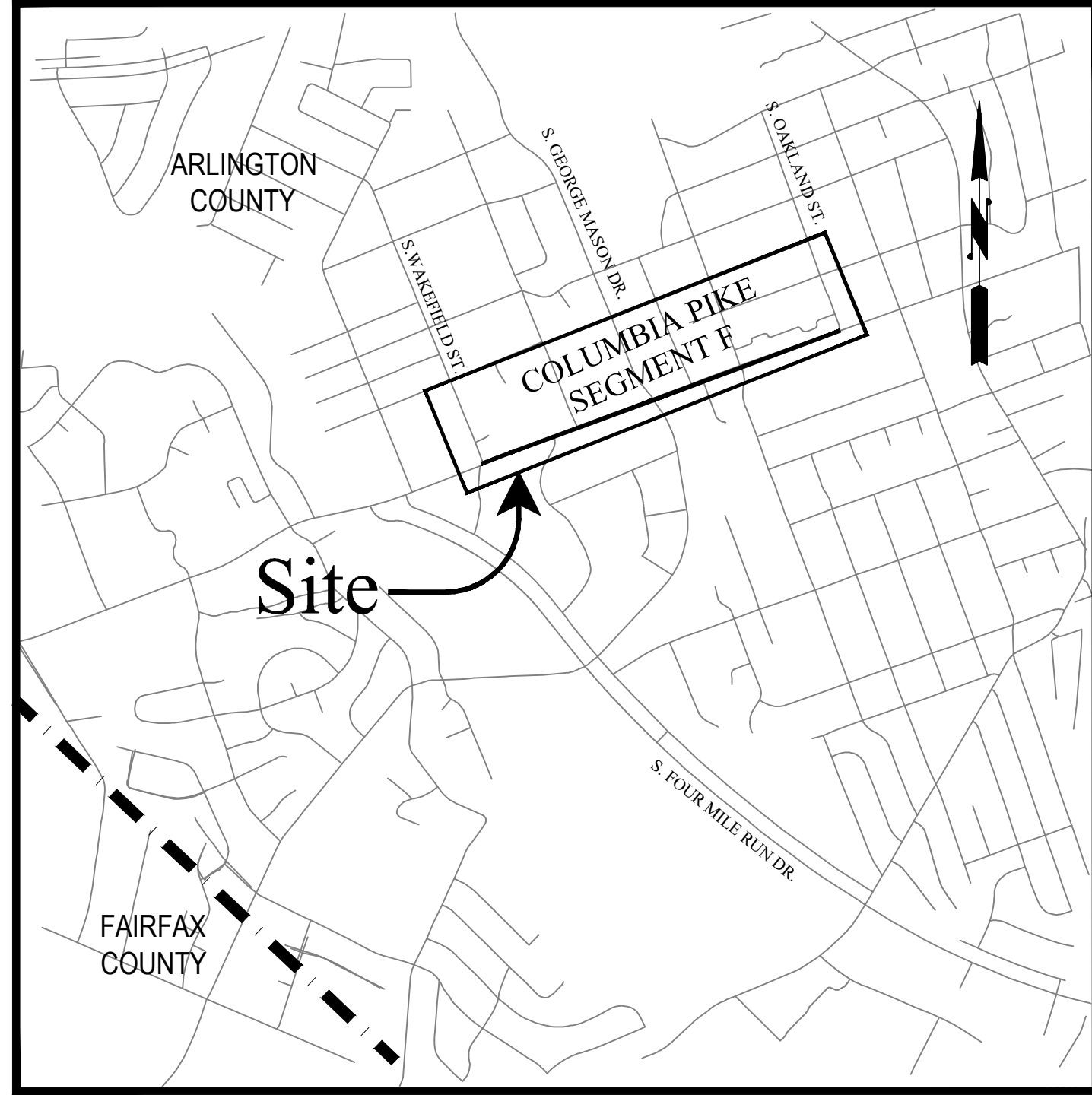
CALL 48 HOURS  
BEFORE YOU DIG

IT'S THE LAW!  
DIAL 811



Know what's  
Call below,  
before you dig.

## Location Map



## PROJECT DESCRIPTION

1. THE PURPOSE OF THE COLUMBIA PIKE MULTIMODAL STREET IMPROVEMENTS PROJECT IS TO IMPLEMENT A COMPLETE STREET THAT ACHIEVES THE FOLLOWING GOALS:

- PROVIDE AN APPROPRIATE BALANCE BETWEEN PEDESTRIANS, BICYCLES, TRANSIT, AND VEHICLES WITHIN THE STREET SPACE.
- ACCOMMODATE FUTURE HIGH-QUALITY, HIGH-FREQUENCY MASS TRANSIT SERVICE IN THE CORRIDOR; AND
- SUPPORT THE REDEVELOPMENT OF SEVERAL NEIGHBORHOODS AND COMMERCIAL LOCATIONS ALONG THE CORRIDOR AND IN SOUTH ARLINGTON.

2. THIS PROJECT CONTINUES THE WORK OF ARLINGTON COUNTY IN RECONSTRUCTING COLUMBIA PIKE TO ACCOMPLISH NEAR-TERM ELEMENTS OF THE VISION OF THE COLUMBIA PIKE STREET SPACE PLANNING TASK FORCE INCLUDING:

- CONSISTENT 6-LANE CROSS SECTION (WHERE ALLOWABLE) INCLUDING LEFT TURN LANES/MEDIANS AND ELIMINATION OF RIGHT TURN LANES/BUS PULL-OUTS
- STREET SPACE ELEMENTS BEHIND THE CURB LINE INCLUDING WIDER SIDEWALKS, STREET TREES AND PLANTING STRIPS, ON STREET PARKING, FURNITURE ZONES, AND BICYCLE ACCOMMODATIONS
- REHABILITATION OF STREET PAVEMENTS
- IMPROVEMENTS TO STORMWATER DRAINAGE SYSTEMS
- UPGRADING OF SUBSURFACE UTILITIES
- MINIMAL IMPACTS TO ADJACENT PROPERTIES

3. THE WORK OF THIS PROJECT WILL INCLUDE, BUT IS NOT LIMITED TO, DEMOLITION, EXCAVATION, EMBANKMENT, DRAINAGE, UTILITIES, PAVING, LIGHTING, TRANSIT PLATFORMS, LANDSCAPING, SIGNING AND PAVEMENT MARKING, AND MAINTENANCE OF TRAFFIC.

4. THE CONTRACTOR SHALL COMPLETE THE WORK IN ACCORDANCE WITH THESE PLANS, REFERENCE SPECIFICATIONS, AND ALL OTHER CONTRACT DOCUMENTS.



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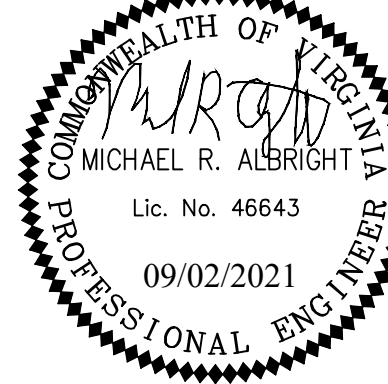
Kimley»Horn

Kimley-Horn

and Associates, Inc.

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Phone: 703-674-1500  
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Seal



Approvals

Date

Design Team Engineer Supervisor

Construction Management Supervisor

Water, Sewer, Streets Bureau Chief

Transportation Director

Project Manager

Revisions Date

Designed: EJD  
Drawn: TEC  
Checked: MRA  
Miss Utility Transmittal #:

Filename: 010073-OVERALL-CV-F.dwg  
Patht: S:\NVA\_RDP\Y15010073 Columbia Pike Multimodal\Production\Task  
12 Final Design\010073 Columbia Pike Segment\Segment F.dwg  
Design: Patrick Husted  
Plotted: September 02, 2021  
Plotted by: patrick.husted

ARLINGTON COUNTY, VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL SERVICES

TITLE SHEET  
COLUMBIA PIKE - ROUTE 244  
COLUMBIA PIKE - MULTIMODAL STREET IMPROVEMENTS  
SEGMENT F  
S. OAKLAND ST. TO S. WAKEFIELD ST.

SCALE: HOR. N/A VERT. N/A SHEET: F1.1 of F1.2



DEPARTMENT OF  
ENVIRONMENTAL SERVICES

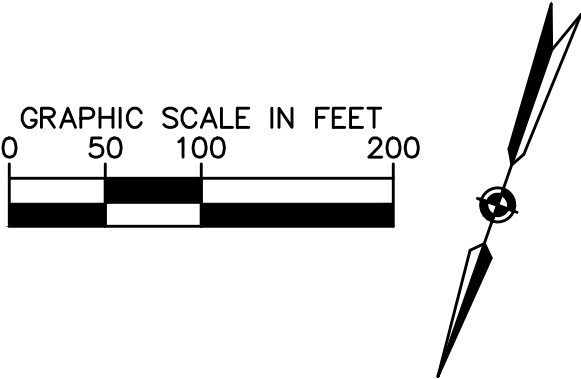
10/19/2021

APPROVAL DATE



COLUMBIA PIKE ROUTE 244  
Arlington County, Virginia

SEGMENT F  
S. OAKLAND STREET TO S. WAKEFIELD STREET  
STA. 132+00 - STA. 169+00



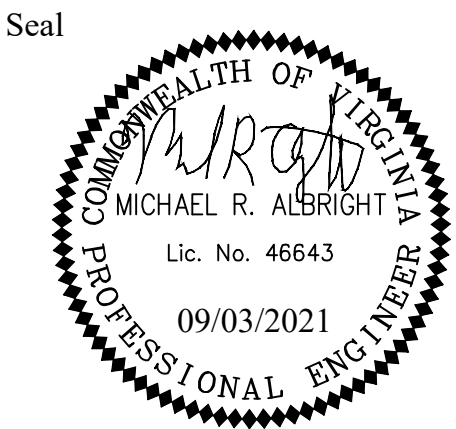
**ARLINGTON**  
VIRGINIA

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Approvals \_\_\_\_\_ Date \_\_\_\_\_

Design Team Engineer Supervisor \_\_\_\_\_

Construction Management Supervisor \_\_\_\_\_

Water, Sewer, Streets Bureau Chief \_\_\_\_\_

Transportation Director \_\_\_\_\_

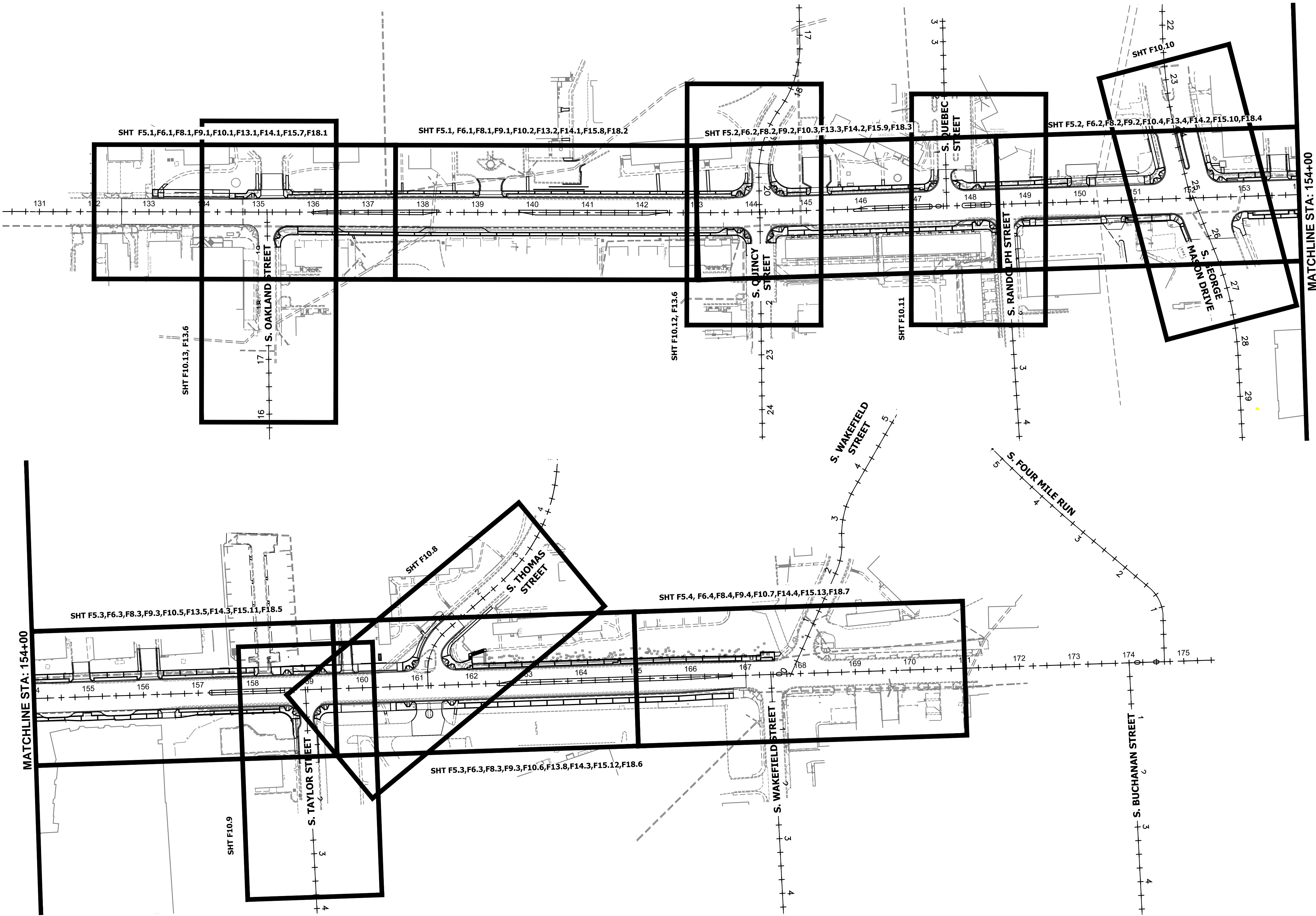
Project Manager \_\_\_\_\_

Revisions	Date

Designed: JGJ  
Drawn: JGJ  
Checked: MRA  
Miss Utility Transmittal #:

Filename: 010073-F-CVR401.dwg  
Path: C:\Users\KORVY\OneDrive\Documents\Projects\010073-F-CVR401\Drawings\010073-F-CVR401.dwg  
Plotted: September 03, 2021  
Plotted by: Patrick.Husted

ARLINGTON COUNTY, VIRGINIA DEPARTMENT OF ENVIRONMENTAL SERVICES		
COVER SHEET COLUMBIA PIKE - ROUTE 244 COLUMBIA PIKE - MULTIMODAL STREET IMPROVEMENTS SEGMENT F STA. 132+00 TO STA. 169+00		
SCALE:	HOR. 1" = 100' VERT. N/A	SHEET: F1.2 of F1.2

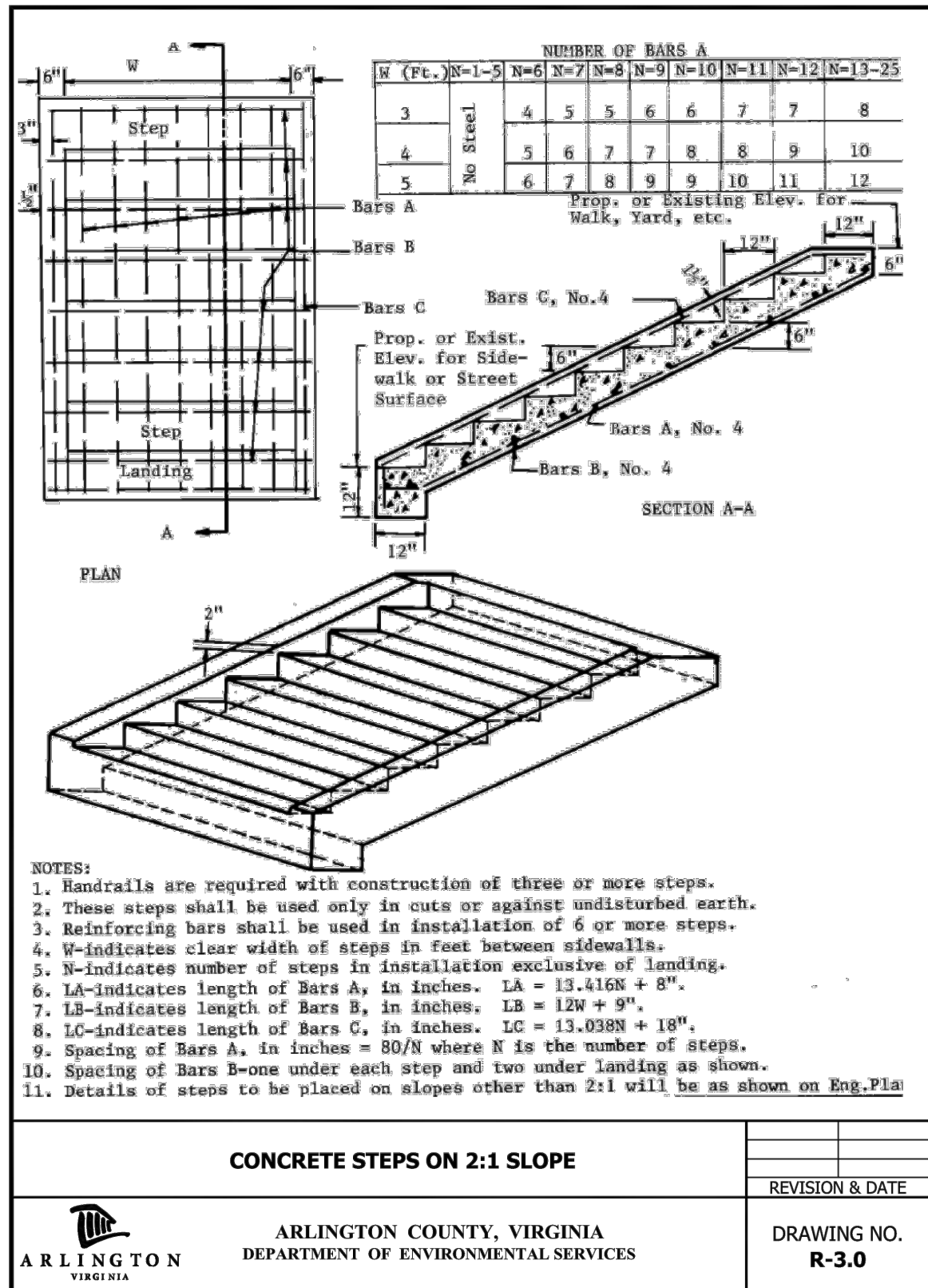




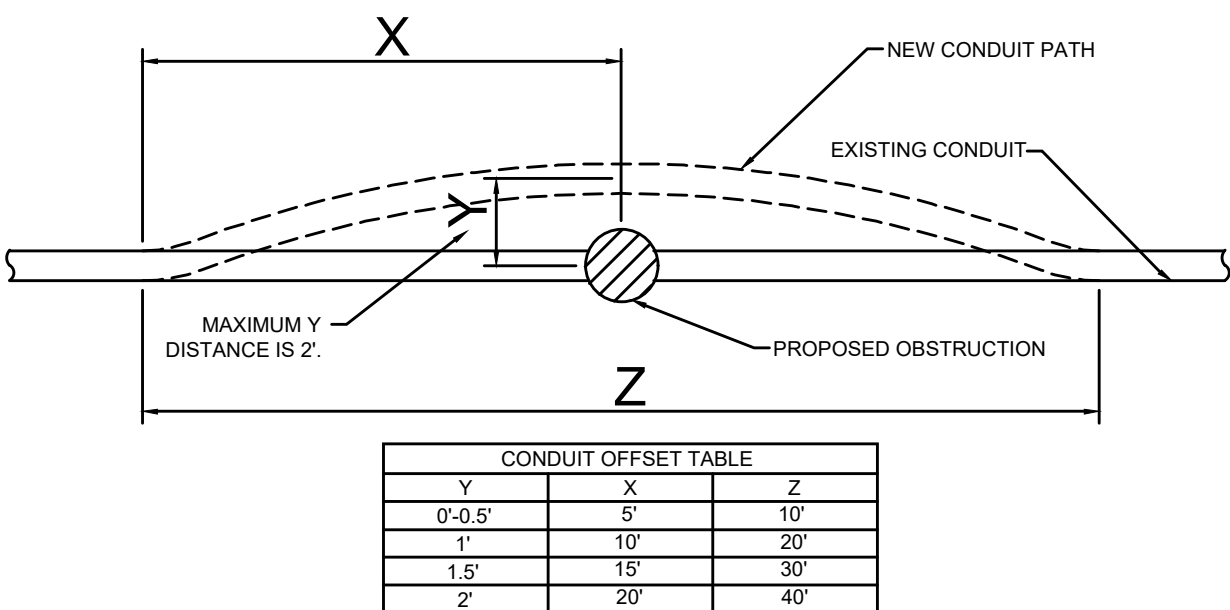
# GENERAL NOTES

## GENERAL SURVEY NOTES

- ALL ELEVATIONS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (N.A.V.D. 88)
- EXISTING CONDITIONS MAPPING PROVIDED BY RICE AND ASSOCIATES, DATED APRIL 29, 2014 AND SUPPLEMENTAL MAPPING AT GEORGE MASON DRIVE, DATED OCTOBER 1, 2019. BASIS FOR MAPPING IS FIELD SURVEY AND AS-BUILT INFORMATION FROM DECEMBER 2014 THROUGH APRIL 2015. AS-BUILT INFORMATION FOR STORMWATER FACILITIES FOR THE COLUMBIA VILLAGE SITE AT THE NORTHWEST CORNER OF S. GEORGE MASON STREET WAS PROVIDED BY VIKI AND INCORPORATED INTO EXISTING CONDITIONS MAPPING BY KIMLEY-HORN. SITE PLAN FOR 4238 COLUMBIA PIKE DEVELOPMENT WAS PROVIDED BY DEWBERRY AND INCORPORATED INTO EXISTING CONDITIONS MAPPING BY KIMLEY-HORN. THE RFB AT OAKLAND STREET WAS ADDED TO THE EXISTING CONDITIONS MAPPING BY KIMLEY-HORN. AS-BUILT INFORMATION FOR WASHINGTON GAS FACILITIES FROM OAKLAND STREET TO WAKEFIELD STREET WAS PROVIDED BY WASHINGTON GAS AND INCORPORATED INTO EXISTING CONDITIONS MAPPING BY KIMLEY-HORN.
- FOR CONTROL AND MAINTENANCE OF TRAFFIC REFER TO CONTRACT SPECIAL PROVISION, MAINTENANCE OF TRAFFIC, LOCATED IN THE BID PROPOSAL.



## CONDUIT RELOCATION DETAIL



### CONSTRUCTION NOTES:

- CONTRACTOR TO NOTIFY ARLINGTON COUNTY'S FIBER ENGINEER AT (703) 228-7728 WHENEVER WORK IS BEING DONE WITHIN 2' OF ANY ARLINGTON COUNTY FIBER LINE OR HANDHOLE.
- DO NOT BEND OR KINK CONDUIT WHEN MOVING.
- DO NOT APPLY HEAT, I.E. BLOW TORCH TO FACILITATE MOVING CONDUIT.
- CONTRACTOR SHALL EXCAVATE A MINIMUM OF X' IN EACH DIRECTION FROM OBSTRUCTION.
- CONTRACTOR SHALL EXCAVATE THE EXISTING CONDUIT USING A MANUAL AND/OR HAND DIGGING METHOD SO AS TO NOT DAMAGE THE EXISTING CONDUIT.
- MAXIMUM CONDUIT OFFSET IS Z'.
- WHEN RELOCATION OF COUNTY FIBER SYSTEM EXCEEDS A Z' OFFSET AND/OR IF SPLICING IS REQUIRED, THEN ONE(1) OF THE COUNTY'S PRE-APPROVED SPLICING CONTRACTORS SHALL BE USED.
- a. CALL (703) 228-7728 TO OBTAIN A LIST OF CURRENTLY APPROVED CONTRACTORS.
- b. COST FOR ADJUSTING, RELOCATING AND/OR SPLICING SHALL BE PART OF COST FOR UTILITY BEING INSTALLED (WHICH CAUSES THE CONFLICT).
- CONDUIT EXCAVATION AND MANIPULATION SHALL ONLY BE PERFORMED IN THE PRESENCE OF A COUNTY FIBER ENGINEER, (703) 228-7728.
- NO MECHANICAL ASSISTANCE SHALL BE USED TO REPOSITION THE FIBER CONDUIT.
- RING CUTS AND INSTALLATION OF COUPLERS AND SLIT DUCT SHALL BE PERFORMED ONLY BY THE COUNTY'S FIBER OPTIC MAINTENANCE CONTRACTOR.
- NEW EMPTY FACILITIES MAY BE CONSTRUCTED BY OTHER CONTRACTORS WITH INSPECTIONS BY COUNTY FIBER CONTRACTORS OR ENGINEERS. RELOCATION OF THE FIBER OPTIC CABLE AND RESPLICING MAY ONLY BE PERFORMED BY THE COUNTY'S ON-CALL FIBER CONTRACTOR(S).

## GENERAL REQUIREMENTS

- THE CONTRACTOR SHALL OBTAIN ALL APPLICABLE PERMITS AND LICENSES AND KEEP COPIES OF THE SAME ON SITE DURING CONSTRUCTION, EXCEPT AS PROVIDED BY ARLINGTON COUNTY.
- THE CONTRACTOR SHALL MAINTAIN A CLEAN WORK SITE, FREE FROM TRASH AND DEBRIS.
- THE CONTRACTOR SHALL KEEP AND MAINTAIN A SET OF APPROVED PROJECT PLANS AND SPECIFICATIONS ON SITE AT ALL TIMES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING WITH MATCHING MATERIALS ANY PAVEMENT, PAVEMENT MARKINGS, ETC. THAT MUST BE CUT OR REMOVED, OR THAT ARE DAMAGED DURING CONSTRUCTION.
- LDA AND DEQ PERMITS WILL BE OBTAINED BY THE COUNTY AND SHALL BE TRANSFERRED TO THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION.
- DETECTABLE WARNING SURFACES SHALL BE COMPLIANT WITH ARLINGTON COUNTY SPECIFICATION 06110.
- EASEMENTS REQUIRED FOR CONSTRUCTION AND UTILITY INSTALLATION ARE EITHER IN THE PROCESS OF BEING OBTAINED BY THE ARLINGTON COUNTY FROM THE LAND OWNER OR HAVE BEEN ACQUIRED. EASEMENTS FOR PARCELS 63, 64, 65 ARE IN THE PROCESS OF BEING FINALIZED AND OBTAINED BY THE COUNTY AT THE TIME OF THIS SUBMISSION.

## COORDINATION

- CONSTRUCTION WILL TAKE PLACE ADJACENT TO ONGOING TRAFFIC OPERATIONS. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH ARLINGTON COUNTY (AC) PROJECT OFFICER.
- THE CONTRACTOR SHALL SUBMIT A SCHEDULE FOR CONSTRUCTION TO PROJECT OFFICER IN ACCORDANCE WITH ARLINGTON COUNTY D.E.S. REQUIREMENTS.
- PER THE CONTRACT DOCUMENTS, PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL ARRANGE A MEETING WITH PROJECT OFFICER TO DISCUSS COORDINATION OF CONSTRUCTION ACTIVITIES AND RELATED PROJECTS. THE CONTRACTOR SHALL PARTICIPATE IN BI-WEEKLY PROGRESS MEETINGS AND SHALL SUBMIT SCHEDULE UPDATES AT THESE MEETINGS.
- THE CONTRACTOR WILL ALSO BE REQUIRED TO CLOSELY COORDINATE WITH ADJACENT ONGOING AND PLANNED PROJECTS BEING CONSTRUCTED BY OTHERS, INCLUDING BUT NOT LIMITED TO THE TRANSIT STATIONS PROJECT.

## ROADWAY LIGHTING

- THE CONTRACTOR SHALL INSTALL LIGHTING EQUIPMENT ITEMS (CONDUIT, JUNCTION BOXES, LIGHT POLES, AND LIGHT FIXTURES) IN ACCORDANCE WITH THESE PLANS, THE CONTRACT DOCUMENTS, THE TRAFFIC SIGNAL EQUIPMENT SPECIFICATIONS, STREET LIGHT SPECIFICATIONS AND ALL REFERENCE SPECIFICATIONS, INCLUDING THOSE LISTED IN THESE GENERAL NOTES (ESPECIALLY ARLINGTON COUNTY TRAFFIC SIGNAL AND STREETLIGHT SPECIFICATIONS, AND DOMINION ENERGY VIRGINIA POWER (DEV) STANDARDS AND SPECIFICATIONS).
- THE LOCATIONS OF LIGHTING AND ELECTRICAL EQUIPMENT ITEMS ARE SHOWN ON THE PLANS AS DIAGRAMMATIC ONLY. THE PLANS CONVEY THE SCOPE, GENERAL ARRANGEMENT, AND APPROXIMATE LOCATION OF EQUIPMENT ITEMS. THE FINAL LOCATIONS OF THE ITEMS SHALL BE DETERMINED IN THE FIELD BY THE CONTRACTOR, THE COUNTY, AND THE ELECTRICAL SERVICE PROVIDER.
- THE CONTRACTOR SHALL NOT PROCEED WITH THE INSTALLATION OF ANY ITEMS WITHOUT APPROVAL OF THE FIELD LOCATIONS BY THE COUNTY.
- ALL LIGHTING AND ELECTRICAL EQUIPMENT FURNISHED BY THE CONTRACTOR FOR THIS PROJECT SHALL BE NEW, UNLESS OTHERWISE APPROVED BY THE COUNTY.
- THE CONTRACTOR SHALL INSTALL A METER PEDESTAL FOR ROADWAY LIGHTING SYSTEM (LOCATION TO BE DETERMINED). THE CONTRACTOR SHALL ALSO INSTALL ALL LIGHT POLES, LIGHT FIXTURES, BASES, CONDUIT, JUNCTION BOXES, AND WIRING FROM THE METER PEDESTAL.
- DVP WILL INSTALL A TRANSFORMER, IF NEEDED, AND INSTALL CONDUCTOR CABLES FROM THAT TRANSFORMER TO THE METER PEDESTAL INSTALLED BY THE CONTRACTOR.
- SEPARATE METERS ARE REQUIRED FOR STREETLIGHTS AND TRAFFIC SIGNALS.
- REMOVAL OF EXISTING LIGHT POLES AND ASSOCIATED ELECTRICAL CONDUCTORS SHALL BE PERFORMED BY THE CONTRACTOR. EXISTING CONDUIT MAY BE ABANDONED IN PLACE, UNLESS THAT CONDUIT INTERFERES WITH OTHER WORK.

## MS4 NOTES

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

## COORDINATION WITH UTILITY PROVIDERS

- THE CONTRACTOR SHALL COORDINATE WITH REPRESENTATIVES OF THE UTILITY PROVIDERS (OWNERS) WHO WILL BE OPERATING PORTIONS OF THE UTILITY DUCT BANK SYSTEM SUPPORTING THE RELOCATION OF EXISTING UTILITIES (BOTH OVERHEAD AND UNDERGROUND) AND THE INSTALLATION OF NEW UNDERGROUND UTILITIES.

## UTILITIES

- THIS PLAN DOES NOT GUARANTEE THE EXISTENCE, NONEXISTENCE, SIZE, TYPE, LOCATION, ALIGNMENT, OR DEPTH OF ANY UNDERGROUND UTILITIES OR OTHER FACILITIES. WHERE SURFACE FEATURES (MANHOLES, CATCH BASINS, VALVES, ETC.) ARE UNAVAILABLE OR INCONCLUSIVE, INFORMATION SHOWN MAY BE FROM UTILITY OWNER'S RECORDS AND/OR ELECTRONIC LINE TRACING, THE RELIABILITY OF WHICH IS UNCERTAIN. THE CONTRACTOR SHALL PERFORM TEST EXCAVATIONS OR OTHER REINVESTIGATIONS AS NECESSARY TO VERIFY LOCATION AND CLEARANCES.

- UNLESS OTHERWISE NOTED, UTILITIES LIDS, INCLUDING WATER VALVE LIDS, ARE TO BE ADJUSTED BY THE CONTRACTOR TO MATCH FINAL GRADE AND SLOPE

- STATE LAW MANDATES THE NOTIFICATION OF "MISS UTILITY" OF VIRGINIA AT 811 AT LEAST 72 HOURS IN ADVANCE OF ANY EXCAVATION OR CONSTRUCTION. UTILITY OWNER CONTACTS ARE LISTED BELOW FOR REFERENCE DURING CONSTRUCTION:

UTILITY OWNERS	TELEPHONE
DOMINION VIRGINIA POWER (DVP)	888-667-3000
VERIZON COMMUNICATIONS	888-826-2355
COMCAST	888-683-1000
JONES FIBER	540-891-5545
WASHINGTON GAS	703-750-1000

- CONTRACTOR SHALL CONFORM TO THE "OVERHEAD HIGH VOLTAGE ACT" (EFFECTIVE JULY 1, 2003) AND SHALL CONTACT THE NECESSARY AUTHORITIES PRIOR TO START OF CONSTRUCTION.

- ARLINGTON COUNTY'S PROJECT OFFICER SHALL BE NOTIFIED WHEN ANY IMPROVEMENT PERTINENT TO HIS INSPECTION DUTIES ARE BEING INSTALLED. SPECIFIC REQUIREMENTS ARE:

- SITE INSPECTOR OR PROJECT OFFICER IS TO BE NOTIFIED AT LEAST 3 DAYS PRIOR TO START OF CONSTRUCTION.
- A MINIMUM OF 24 HOURS NOTICE IS REQUIRED WHEN REQUESTING COMPACTION TESTS.

- STABLE SUBGRADE SHALL COMPRISE SOLID, WELL DRAINED, UNDISTURBED EARTH CAPABLE OF SUPPORTING STREET LOADING WITHOUT RESULTING IN ANY DAMAGING SETTLEMENT AS DETERMINED BY THE PROJECT OFFICER.

- WHERE UNSUITABLE SUBGRADE, AS DETERMINED BY THE PROJECT OFFICER, IS ENCOUNTERED, IT SHALL BE MADE STABLE BY DRAINING, COMPACTING, AND/OR REPLACING AS REQUIRED, TO THE SATISFACTION OF THE PROJECT OFFICER.

- ALL CONCRETE SHALL BE VIRGINIA DEPARTMENT OF TRANSPORTATION (VDOT) CLASS A4" FOR PRECAST STRUCTURES AND VDOT CLASS A3" FOR ALL OTHERS USES, UNLESS OTHERWISE SPECIFIED.

- ALL ASPHALT PAVEMENT COURSES SHALL BE IN CONFORMANCE WITH VDOT SPECIFICATIONS.

- EXISTING FIRE HYDRANTS MUST REMAIN ACTIVE UNTIL NEW HYDRANTS ARE AVAILABLE FOR PUBLIC USE. CONTRACTOR TO COORDINATE WITH PROPERTY OWNERS AND FIRE DEPARTMENT WHEN SERVICES TO PROPERTIES ARE INTERRUPTED.

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF THE DUCT BANK SYSTEM ALONG COLUMBIA PIKE, AS SHOWN ON THE DRY UTILITY RELOCATION PLAN, INCLUDING CONDUITS, MANHOLES, JUNCTION BOXES, AND ALL ASSOCIATED EQUIPMENT TO SUPPORT THE RELOCATION OF EXISTING UTILITIES AND THE INSTALLATION OF NEW UTILITY SERVICES.

- DUCT BANK DETAILS, NOTES, AND PLANS AND PROFILES ARE SHOWN IN THE DRY UTILITY RELOCATION PLAN TO CONVEY THE GENERAL SCOPE OF THE WORK. FINAL DESIGNS ARE BEING COMPLETED BY THE INDIVIDUAL UTILITY PROVIDERS FOR ELECTRIC, TELEPHONE, CABLE TELEVISION, AND FIBER OPTIC COMMUNICATIONS. FINAL DESIGNS OF THE UTILITY SERVICES THEMSELVES ARE ALSO BEING COMPLETED BY THE PROVIDERS.

- THE CONTRACTOR SHALL COORDINATE CLOSELY WITH THE COUNTY, THE COUNTY'S DESIGNATED UTILITY COORDINATOR, AND THE UTILITY PROVIDERS TO ENSURE THE SUCCESSFUL INSTALLATION OF A COMPLETE AND FUNCTIONING DUCT BANK SYSTEM THAT MEETS THE REQUIREMENTS OF THIS PROJECT AND THE SPECIFICATIONS AND DESIGNS OF EACH UTILITY PROVIDER.

- THE CONTRACTOR SHALL ALSO INSTALL THE PORTIONS OF THE DUCT BANK SYSTEM, OTHER CONDUITS, AND SERVICES THAT WILL RESULT IN THE FOLLOWING UTILITY SYSTEMS:

- ARLINGTON COUNTY CONDUITS FOR COUNTY COMMUNICATIONS AND SIMILAR SYSTEMS TO BE PROVIDED BY VIKI
  - ELECTRICAL SERVICE FOR ROADWAY LIGHTING
  - ELECTRICAL AND COMMUNICATIONS SERVICES FOR THE BUS SHELTERS ALONG COLUMBIA PIKE
- THE UTILITY PROVIDERS WILL BE RESPONSIBLE FOR INSTALLING THE CABLES WITHIN THE DUCT BANK SYSTEM AND THE SERVICES FOR THE FOLLOWING UTILITY SYSTEMS:
- DOMINION ENERGY VIRGINIA (DEV)--ELECTRIC
  - VERIZON/AT&T (TELEPHONE)
  - VERIZON BUSINESS/MCI (FIBER)
  - COMCAST (CATV)

- FOR THE CONTRACTOR'S PORTIONS OF THE UTILITY DUCT BANK SYSTEM AND ASSOCIATED INFRASTRUCTURE, CONSTRUCTION SHALL BE PERFORMED BY CONTRACTOR PERSONNEL AND/OR SUBCONTRACTORS QUALIFIED TO WORK ON THE SYSTEM BEING INSTALLED. THE CONTRACTOR AND SUBCONTRACTORS SHALL BE FAMILIAR WITH AND CONFORM TO THE CONSTRUCTION PRACTICES AND STANDARDS OF THE ARLINGTON COUNTY AND THE ABOVE UTILITY PROVIDERS.

- WASHINGTON GAS WILL ADJUST AND/OR UPGRADE THEIR FACILITIES AS PART OF THE CONSTRUCTION OF THIS PROJECT. THE CONTRACTOR SHALL COORDINATE PROJECT SCHEDULES AND ACTIVITIES WITH WASHINGTON GAS. IN THE CASES OF ANY CONFLICTS BETWEEN WASHINGTON GAS FACILITIES AND OTHER UTILITIES AND CONSTRUCTION ITEMS, THE CONTRACTOR SHALL COORDINATE WITH WASHINGTON GAS. IT IS ANTICIPATED THAT WASHINGTON GAS WILL ADJUST THEIR UTILITIES IN COORDINATION WITH THE CONTRACTOR'S ACTIVITIES.

- ANY RELOCATION OR TEMPORARY DEACTIVATION OF ACTIVE/LIVE ARLINGTON COUNTY FIBER OPTIC LINES SHALL BE PERFORMED BY THE COUNTY'S ON-CALL FIBER CONTRACTOR (OBTAINED FROM THE COUNTY FIBER TEAM BY CONTACTING 703-228-7726). ANY WORK DONE TO, ON, OR FOR THE ARLINGTON COUNTY FIBER SYSTEM WILL BE INSPECTED BY THE ARLINGTON COUNTY FIBER TEAM PRIOR TO ACCEPTANCE OF THAT WORK.

- FOR ALL MANHOLES PROPOSED AT A DEPTH OF 16' OR DEEPER, CONTRACTOR SHALL SUBMIT DESIGN CALCULATIONS AND SHOP DRAWINGS FOR THE MANHOLE STRUCTURE AND INSTALLATION PROCEDURE FOR THESE STRUCTURES TO ARLINGTON COUNTY FOR APPROVAL PRIOR TO INSTALLATION.



## DEPARTMENT OF ENVIRONMENTAL SERVICES

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Seal



Approvals \_\_\_\_\_ Date \_\_\_\_\_

Design Team Engineer Supervisor \_\_\_\_\_

Construction Management Supervisor \_\_\_\_\_

Water, Sewer, Streets Bureau Chief \_\_\_\_\_

Transportation Director \_\_\_\_\_

Project Manager \_\_\_\_\_

Revisions \_\_\_\_\_ Date \_\_\_\_\_

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Designed: KF  
Drawn: KF  
Checked: MRA  
Miss Utility Transmittal #:

Filename: 010073-F-GENERALNOTES.dwg  
Path: C:\NVA\_RDP\11010073\_Columbia Pike Multimodal Production\Task  
12 - Final Design of Columbia Pike Segments\Segment F\1.2 - 100%  
Design\Drawings  
Plotted: September 02, 2021  
Plotted by: patrick.husted

## ARLINGTON COUNTY, VIRGINIA DEPARTMENT OF ENVIRONMENTAL SERVICES

## GENERAL NOTES AND DETAILS COLUMBIA PIKE - ROUTE 244 COLUMBIA PIKE - MULTIMODAL STREET IMPROVEMENTS SEGMENT F

SCALE: HOR. N/A VERT. N/A SHEET: F2.1 of F2.5



DEPARTMENT OF ENVIRONMENTAL SERVICES

10/19/2021  
APPROVAL DATE



# GENERAL NOTES

## WATER-SEWER CONSTRUCTION REQUIREMENTS

- 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.
- BEFORE START OF CONSTRUCTION, THE CONTRACTOR SHALL FURNISH THE FOLLOWING INFORMATION AND/OR EVIDENCE OF COMPLIANCE WITH ALL APPLICABLE REGULATIONS AND LAWS, TO THE ARLINGTON COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES:
  - THE NAME AND ADDRESS OF THE CONTRACTOR HIRED TO WORK ON THE PROJECT. THE CONTRACTOR SHALL BE REGISTERED IN THE COMMONWEALTH OF VIRGINIA. SATISFACTORY EVIDENCE SHALL BE FURNISHED OF THE CONTRACTOR'S PRIOR EXPERIENCE AS PRIME CONTRACTOR IN THE CONSTRUCTION OF WATER MAINS AND/OR SANITARY SEWER INSTALLATIONS. FURTHER, THE CONTRACTOR SHALL FURNISH A LETTER WITH A LIST OF MATERIALS AND SUPPLIERS FOR PROPOSED PROJECT.
  - A RIGHT-OF-WAY PERMIT IS REQUIRED TO WORK IN ARLINGTON COUNTY STREETS. IN INSTANCES OF EXCAVATIONS IN STATE RIGHT OF WAY, THE DATE AND NUMBER OF ALL PERMITS REQUIRED BY THE VIRGINIA DEPARTMENT OF TRANSPORTATION (VDOT) SHALL BE FURNISHED.
  - IF ANY MODIFICATION TO EASEMENTS ARE NEEDED DUE TO CONTRACTOR MEANS AND METHODS, 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 OFFICES AT (703) 228-6570. THE METER WILL NOT BE 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.
  - CONSTRUCTION SHALL NOT BEGIN UNTIL THE ABOVE ITEMS HAVE BEEN COMPLETED AND THE ARLINGTON COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES HAS APPROVED THE STARTING DATE AND ARRANGEMENTS HAVE BEEN MADE FOR THE REQUIRED INSPECTION SERVICE.
- ALL CONSTRUCTION SHALL BE ACCOMPLISHED FROM APPROVED PLANS, SPECIFICATIONS AND CUT SHEETS SUBMITTED BY A REGISTERED ENGINEER AND APPROVED BY THE COUNTY. TO AVOID CONSTRUCTION DELAYS ALL NECESSARY TEST HOLE INFORMATION SHALL BE OBTAINED PRIOR TO PLAN APPROVAL. WATER MAIN VALVES, METERS AND APPURTENANCES SHALL ONLY BE OPERATED BY ARLINGTON COUNTY WATER PERSONNEL.
- 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.
- 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.
- 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 CONTRACTOR 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.
- 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.
- 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."
- 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 CONTRACTORS REGISTERED SURVEYOR/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 SURVEYOR/ENGINEER.
- PRIOR TO THE FINAL ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL REQUEST TO THE UTILITY SERVICES IN WRITING FOR THE DISCONTINUATION OF ALL EXISTING WATER SERVICES (WHERE APPLICABLE) 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.

## CLEARING AND GRUBBING/DEMOLITION

- THE CONTRACTOR SHALL PERFORM DEMOLITION ACTIVITIES AS NOTED AND SHOWN ON THESE PLANS AND AS DIRECTED BY ARLINGTON COUNTY (AC).
- INSTALL ALL EROSION AND SEDIMENT CONTROL DEVICES AND TREE PROTECTION PRIOR TO BEGINNING DEMOLITION WORK. ALL INLET PROTECTION SHALL BE PLACED WITHIN THE LIMIT OF DISTURBANCE. INLET PROTECTION MAY NOT BE PLACED IN ACTIVE TRAVEL LANES.
- DEMOLITION DETAILS AND NOTES ARE INTENDED TO DEPICT GENERAL DEMOLITION AND UTILITY WORK AND ARE NOT INTENDED TO IDENTIFY EACH ELEMENT OF DEMOLITION OR RELOCATION. CONTRACTOR SHALL COORDINATE WITH AC AND APPROPRIATE UTILITY COMPANIES PRIOR TO WORK.
- THE CONTRACTOR SHALL REMOVE OR ABANDON, AS SPECIFIED, EXISTING UTILITIES SUCH AS STORM DRAINAGE, SANITARY SEWER, WATER, GAS, ELECTRIC, AND TELEPHONE OR AS DIRECTED BY AC. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING EACH UTILITY COMPANY AND AC TO COORDINATE ABANDONMENT OR REMOVAL OF ALL UTILITIES AND FOR DETERMINING HORIZONTAL AND VERTICAL LOCATIONS OF UTILITIES PRIOR TO COMMENCING WORK.
- THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES TO REMAIN IN PLACE.
- ALL MATERIALS REMOVED UNDER CLEARING WORK, NOT TO BE RELOCATED OR TO BE TURNED OVER TO THE OWNER, SHALL BE LEGALLY DISPOSED OF.
- THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS TO AVOID UNNECESSARY DAMAGE TO EXISTING ROAD SURFACES.
- ALL EXISTING ITEMS TO REMAIN WHICH ARE DAMAGED DURING CONSTRUCTION SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT THE EXPENSE OF THE CONTRACTOR.

## CONSTRUCTION

- SUBMITTALS ON MATERIALS FOR THIS PROJECT SHALL BE PROVIDED TO AC FOR APPROVAL PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION.
- EXISTING VEGETATION SURROUNDING THE CONSTRUCTION AREA SHALL REMAIN IN A NATURAL STATE. TREES NEAR THE CONSTRUCTION AREA SHALL BE PROTECTED IN ACCORDANCE WITH TREE PROTECTION DETAILS, PLANS, AND NOTES AS SHOWN ON THE EROSION AND SEDIMENT CONTROL PLAN.
- THE CONTRACTOR SHALL STRIP TOPSOIL AND ANY ORGANIC-LADEN SOIL AND STORE FOR USE IN BACKFILLING AND LANDSCAPING FOR SITE RESTORATION. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ANY EXCESS SOIL AFTER RESTORATION OF THE SITE.
- WHEN MATERIALS WHICH ARE UNSUITABLE FOR FOUNDATIONS, SUBGRADES, OR ROADWAY PURPOSES OCCUR WITHIN THE LIMITS OF CONSTRUCTION, THE CONTRACTOR SHALL BE REQUIRED TO EXCAVATE SUCH MATERIAL BELOW THE GRADE SHOWN ON THE PLANS. THE AREAS SO EXCAVATED SHALL BE BACKFILLED WITH APPROVED SUITABLE SELECT FILL MATERIAL.
- ANY NECESSARY FILL UNDER PAVED AREAS SHALL BE PLACED IN 6-INCH LIFTS. ALL FILL SHALL BE COMPACTED 95% MDD STANDARD PROCTOR. SUBGRADE SHALL BE PROOF-ROLLED PER THE DIRECTION OF AC. AREAS THAT RUT SHALL BE UNDERCUT AND REPLACED WITH CONTROLLED FILL.
- ALL UNPAVED SURFACES SHALL BE GRADED TO PROVIDE POSITIVE DRAINAGE AWAY FROM PAVED AREAS AND TOWARD DRAINAGE STRUCTURES.
- FOLLOWING FINAL COMPLETION, ALL DISTURBED GRASS AREAS SHALL BE PREPARED AND SODDED.
- DISTURBED GRASS AREAS WITHIN THE PROJECT LIMITS THAT WILL REMAIN INACTIVE FOR A PERIOD OF 7 CALENDAR DAYS OR LONGER SHALL BE TEMPORARILY STABILIZED WITH SEED AND STRAW, MULCH, OR OTHER ACCEPTABLE GROUND COVER.
- THE CONTRACTOR IS REQUIRED TO NOTIFY AC THREE (3) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION AND SPECIFICALLY REQUEST INSPECTION BEFORE BEGINNING ANY OF THE FOLLOWING ACTIVITIES:
  - INSTALLATION OF SILTATION AND EROSION CONTROL MEASURES
  - CLEARING AND GRUBBING
  - EARTHWORK
  - BACKFILL OF ANY STORM DRAINAGE PIPE, CULVERTS, INLET, AND OTHER UTILITIES
  - INSTALLATION OF ANY UNDERGROUND UTILITY, INCLUDING STORM PIPES, CULVERT, INLETS, DUCT BANKS, MANHOLE, ETC.
  - PLACING SUBBASE, BASE OR PAVING SURFACE
  - INSTALLATION OF ANY FORMS
  - PLACING OF ANY CONCRETE
  - BACKFILL OF ANY FOUNDATIONS OR WALLS
  - INSTALLATION OF LANDSCAPING
  - INSTALLATION MARKINGS OF LIGHTING
  - STRIPING AND APPLICATION OF PAVEMENT MARKINGS
  - ALTERATIONS TO BUS STOPS STRUCTURES AND SIGNAGE

## CONSTRUCTION CONT.

- CONTRACTOR TO MAINTAIN ALL PUBLIC AND PRIVATE ACCESS AT ALL TIMES.
- CONTRACTOR TO MATCH ALL EXISTING STEPS, SIDEWALKS, RAMPS, ETC. IN ORDER TO MAINTAIN SAFE PEDESTRIAN AND ADA ACCESS.
- THE HORIZONTAL LOCATION AND INVERT ELEVATIONS SHOWN FOR PROPOSED STORM SEWER PIPES AND STRUCTURES ARE BASED ON EXISTING SURVEY DATA AND REQUIRED DESIGN CRITERIA. THE HORIZONTAL LOCATION OF ALL DRAINAGE STRUCTURE SHOWN ON THESE PLANS ARE APPROXIMATE ONLY.
- IF DURING CONSTRUCTION, IT IS FOUND THAT THE LOCATION OR INVERT ELEVATIONS SHOWN ON THE PLANS DIFFER SIGNIFICANTLY FROM THE LOCATION OR ELEVATIONS OF THE EXISTING CONDITIONS SURVEYED, THE CONTRACTOR SHALL CONFER WITH, AND GET APPROVAL FROM, THE PROJECT OFFICER BEFORE INSTALLING THE PROPOSED PIPE OR STRUCTURE.
- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING TEMPORARY DRAINAGE STRUCTURES AND CONVEYANCE MEASURES TO PREVENT DAMAGE TO PRIVATE PROPERTY AND PUBLIC STREETS, OR AS DIRECTED BY AC.
- CONTRACTOR TO VERIFY LOCATIONS OF EXISTING UTILITIES BEFORE BEGINNING CONSTRUCTION OF THE PROPOSED STORMWATER SYSTEM.
- IF PRECAST DRAINAGE STRUCTURES ARE USED, SHOP DRAWINGS MUST BE SUBMITTED TO ARLINGTON COUNTY PROJECT OFFICER.
- ALL PROPOSED STORM DRAINAGE STRUCTURES SHALL UTILIZE INLET SHAPING WITH PAVED INVERTS, UNLESS OTHERWISE NOTED ON THE PLANS, FOR EACH STRUCTURE.
- ALL PIPES (WATER, SEWER, AND STORM SEWER), LOCATED WITHIN RIGHT-OF-WAY EXCAVATION AREAS THAT ARE SUBJECT TO TRAFFIC LOADS SHALL BE BACKFILLED WITH A SELECT OR GRANULAR MATERIAL AND PLACED IN SIX (6) INCH LAYERS AND COMPACTED TO 95 PERCENT THEORETICAL AASHTO DENSITY IN ACCORDANCE WITH SECTION 302.03 OF THE VIRGINIA DEPARTMENT OF TRANSPORTATION ROAD AND BRIDGE SPECIFICATIONS (CURRENT EDITION).
- RIPRAP MUST BE PROVIDED AT ALL ENDWALLS AND FLARED END SECTIONS AS REQUIRED BY AC INSPECTOR.
- THE CONTRACTOR SHALL MAINTAIN ALL DRAINAGE, STORMWATER MANAGEMENT, AND BEST MANAGEMENT PRACTICES FACILITIES AND SYSTEMS TO ENSURE THAT THEY FUNCTION PROPERLY DURING CONSTRUCTION.
- A WATERTIGHT CONNECTION SHALL BE MADE AT ALL PIPES ENTERING DRAINAGE STRUCTURES. IN ADDITION, WATERTIGHT CONNECTIONS SHALL BE MADE BETWEEN EACH SECTIONS OF PIPE.
- LENGTHS OF PIPE SHOWN ON THE DRAWINGS ARE MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE.
- VDOT STD. UD-2, UD-4, AND CD-2 SHALL BE USED AS DEPICTED ON PLANS. UNDER-DRAIN PIPE SHALL CONNECT DIRECTLY TO DRAINAGE STRUCTURES. MODIFIED UNDER-DRAIN DETAILS REQUIRED BY THIS PROJECT HAVE BEEN PROVIDED AND ARE TO BE INSTALLED AS INDICATED ON THE PLANS.
- ALL PIPE ON THIS PROJECT SHALL BE REINFORCED CONCRETE PIPE, FOR STRENGTH, SHEET THICKNESS, OR CLASS DESIGNATION, AVAILABLE SIZES, HEIGHT OF COVER LIMITATIONS, AND OTHER RESTRICTIONS FOR A PARTICULAR PIPE TYPE OR HEIGHT OF COVER, SEE THE APPLICABLE SECTION OF THE ARLINGTON COUNTY DES CONSTRUCTION STANDARDS AND SPECIFICATIONS MANUAL (2020).
- ALL EXISTING DRAINAGE FACILITIES LABELED "TO BE ABANDONED" SHALL BE LEFT IN PLACE, BACKFILLED AND PLUGGED IN ACCORDANCE WITH THE ARLINGTON COUNTY DES CONSTRUCTION STANDARDS AND SPECIFICATIONS MANUAL (2020).
- EXISTING DRAINAGE FACILITIES BEING UTILIZED AS PART OF THE DRAINAGE SYSTEM SHALL BE CLEANED OF DEBRIS BY THE CONTRACTOR. THE COST INCIDENTAL TO THIS SHALL BE INCLUDED IN THE CONTRACT PRICE FOR OTHER ITEMS.
- ALL EXISTING STRUCTURES TO REMAIN ARE TO BE ADJUSTED OR MODIFIED FROM THE EXISTING RIM ELEVATION TO MATCH THE PROPOSED GRADE. TOP OF PROPOSED STRUCTURES SHALL BE SET TO MATCH CURB AND GUTTER, SIDEWALK AND/OR DITCH CONSTRUCTION.

## RPA NARRATIVE

THERE ARE NO RPA LIMITS WITHIN OR ADJACENT TO THE LIMITS OF DISTURBANCE OF THIS SEGMENT, (F). NO IMPACTS TO THE RPA, ITS COMPONENTS OR DISTURBANCE WITHIN THE RPA ARE PROPOSED.



DEPARTMENT OF  
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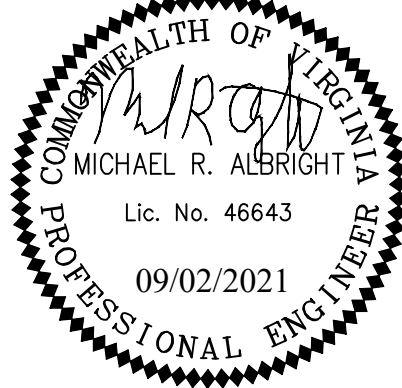
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Approvals \_\_\_\_\_ Date \_\_\_\_\_

Design Team Engineer Supervisor \_\_\_\_\_

Construction Management Supervisor \_\_\_\_\_

Water, Sewer, Streets Bureau Chief \_\_\_\_\_

Transportation Director \_\_\_\_\_

Project Manager \_\_\_\_\_

Revisions \_\_\_\_\_ Date \_\_\_\_\_

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Checked: MRA  
Miss Utility Transmittal #:

Filename: 010073-F-GENERALNOTES.dwg  
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Plotted: September 02, 2021  
Plotted by: patrick.husted

ARLINGTON COUNTY, VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL SERVICES

GENERAL NOTES AND DETAILS  
COLUMBIA PIKE - ROUTE 244  
COLUMBIA PIKE - MULTIMODAL STREET IMPROVEMENTS  
SEGMENT F

SCALE: HOR. N/A VERT. N/A SHEET: F2.2 of F2.5



DEPARTMENT OF  
ENVIRONMENTAL SERVICES

10/19/2021  
APPROVAL DATE



## EROSION AND SEDIMENT CONTROL NOTES

1. TEMPORARY SILT FENCE SHALL BE CONSTRUCTED FOR SHEET PILE RUN OFF AS SHOWN ON PLAN OR AS DIRECTED BY THE PROJECT OFFICER.
2. WHEN WIRE SUPPORT IS USED, STANDARD STRENGTH FILTER CLOTH MAY BE USED. POSTS FOR THIS TYPE OF INSTALLATION SHALL BE PLACED A MAXIMUM OF 10 FEET APART. THE WIRE MESH FENCE MUST BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY DUTY WIRE STAPLES AT LEAST ONE INCH LONG. THE WIRES OR HOG RINGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF TWO INCHES AND SHALL NOT EXTEND MORE THAN 34 INCHES ABOVE THE ORIGINAL GROUND SURFACE.
3. WHEN WIRE SUPPORT IS NOT USED, EXTRA STRENGTH FILTER CLOTH SHALL BE USED. POSTS FOR THIS TYPE OF FABRIC SHALL BE PLACED A MAXIMUM OF 6 FEET APART. THE FILTER FABRIC SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING ONE INCH LONG (MINIMUM) HEAVY DUTY WIRE STAPLES OR TIE WIRES AND EIGHT INCHES OF THE FABRIC SHALL BE EXTENDED INTO THE TRENCH.
4. WIRE FENCE REINFORCEMENT FOR SILT FENCES USING STANDARD STRENGTH FILTER CLOTH SHALL BE A MINIMUM OF 14 GAUGE AND SHALL HAVE A MAXIMUM MESH SPACING OF 6 INCHES. POSTS SHALL BE EITHER STEEL POSTS OR WOODEN STAKES AND HAVE A MINIMUM LENGTH OF 5 FEET.
5. SYNTHETIC FILTER FABRIC SHALL BE A PEROUS SHEET OF PROPYLENE, NYLON, POLYESTER OR ETHYLENE YARN AND SHALL BE CERTIFIED BY THE MANUFACTURER OR SUPPLIER AS CONFORMING TO THE REQUIREMENTS NOTED IN TABLE 3.05-B OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK, THIRD EDITION. THE SYNTHETIC FILTER FABRIC SHALL CONTAIN ULTRAVIOLET RAY INHIBITORS AND STABILIZERS TO PROVIDE A MINIMUM OF SIX MONTHS OF EXPECTED USABLE CONSTRUCTION LIFE AT A TEMPERATURE RANGE OF 0F TO 120F.
6. SILT FENCES SHALL BE INSPECTED AND CLEANED ON A WEEKLY BASIS AND ON A DAILY BASIS IMMEDIATELY FOLLOWING EACH RAIN STORM. ALL NECESSARY REPAIRS SHOULD BE MADE IMMEDIATELY.
7. UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CONSTRUCTED AND MAINTAINED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK, THIRD EDITION (1992) AND VIRGINIA REGULATIONS 4VAC50-30 EROSION AND SEDIMENT CONTROL REGULATIONS.
8. THE TEMPORARY EROSION AND SILTATION (E&S) CONTROL ITEMS SHOWN ON THE E&S CONTROL PLAN ARE INTENDED TO PROVIDE A GENERAL PLAN FOR CONTROLLING EROSION AND SILTATION WITHIN THE PROJECT LIMITS. THE E&S CONTROL PLAN IS BASED ON FIELD CONDITIONS AT THE TIME OF PLAN DEVELOPMENT AND AN ASSUMED SEQUENCE OF CONSTRUCTION. THE CONTRACTOR, IN CONJUNCTION WITH THE AC PROJECT MANAGER AND/OR RLD, SHALL ADJUST THE LOCATION, QUANTITY AND TYPE OF EROSION AND SILTATION CONTROL ITEMS REQUIRED BASED ON THE ACTUAL FIELD CONDITIONS ENCOUNTERED AT THE TIME OF CONSTRUCTION AND THE SELECTED SEQUENCE OF CONSTRUCTION.
9. THE AREAS BEYOND THE PROJECT'S CONSTRUCTION AREA ARE TO BE PROTECTED FROM SILTATION. PERIMETER CONTROLS SUCH AS FILTER BARRIER, SILT FENCE, ETC. SHALL BE INSTALLED PRIOR TO ANY CONSTRUCTION OPERATIONS.
10. SILT REMOVAL AND SEDIMENT CLEAN-OUT FROM EROSION AND SILTATION CONTROL ITEMS SHALL BE PERFORMED IN ACCORDANCE WITH THE FOLLOWING:
  - A. TEMPORARY SEDIMENT BASINS AND SEDIMENT TRAPS - WHEN THE "WET" STORAGE VOLUME (PERMANENT POOL) HAS BEEN REDUCED BY 50%.
  - B. DEWATERING BASINS - WHEN THE EXCAVATED VOLUME HAS BEEN REDUCED BY 50%.
  - C. ALL OTHER EROSION AND SILTATION CONTROL ITEMS - WHEN THE CAPACITY, HEIGHT, OR DEPTH HAS BEEN REDUCED BY 50%.
11. EXCEPT WHERE NOTED HEREON, TO THE BEST OF THE DESIGNER'S KNOWLEDGE, THE PROPOSED DEVELOPMENT OF THE SUBJECT PROPERTY CONFORMS TO ALL CURRENT APPLICABLE LAND DEVELOPMENT ORDINANCES, REGULATIONS, AND ADOPTED STANDARDS.
12. LAND CONSERVATION NOTES - MEASURES TO CONTROL EROSION AND SILTATION SHALL BE PROVIDED PURSUANT TO AND IN COMPLIANCE WITH CURRENT STATE AND LOCAL REGULATIONS. HOWEVER, THE APPROVAL OF THESE PLANS SHALL IN NO WAY RELIEVE THE CONTRACTOR OR HIS AGENT OF ANY LEGAL RESPONSIBILITIES WHICH MAY BE REQUIRED BY THE CODE OF VIRGINIA OR ANY ORDINANCE ENACTED BY AC.
13. ADDITIONAL SILTATION AND EROSION CONTROL MEASURES SHALL BE INSTALLED AS DIRECTED BY ARLINGTON COUNTY INSPECTOR DURING FIELD REVIEW; COSTS ASSOCIATED WITH ADDITIONAL MEASURES SHALL BE ASSUMED BY THE CONTRACTOR.
14. EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO OR AS THE FIRST STEP IN CONSTRUCTION.
15. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
16. ALL DISTURBED AREAS ARE TO DRAIN TO APPROVED SEDIMENT CONTROL MEASURES AT ALL TIMES DURING LAND DISTURBING ACTIVITIES AND DURING SITE DEVELOPMENT UNTIL FINAL STABILIZATION IS ACHIEVED.
17. DURING DEWATERING OPERATIONS, WATER WILL BE PUMPED INTO AN APPROVED FILTERING DEVICE.
18. THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES WEEKLY AND AFTER EACH RUNOFF-PRODUCING RAINFALL EVENT. ANY NECESSARY REPAIRS OR CLEANUP TO MAINTAIN THE EFFECTIVENESS OF THE EROSION CONTROL DEVICES SHALL BE MADE IMMEDIATELY.
19. EROSION CONTROL MEASURES ARE TO BE REMOVED BY CONTRACTOR AFTER PERMANENT VEGETATION HAS BEEN ESTABLISHED.
20. UNDERGROUND UTILITY LINES SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING STANDARDS:
  - A. NO MORE THAN 500 LINEAR FEET OF TRENCH MAY BE OPENED AT ONE TIME.
  - B. EXCAVATED MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF THE TRENCH.
  - C. EFFLUENT FROM DEWATERING OPERATIONS SHALL BE FILTERED (EXAMPLE WOULD BE A SILT BAG) OR PASSED THROUGH AN APPROVED SEDIMENT TRAPPING DEVICE (EXAMPLE WOULD BE A SEDIMENT TRAP) OR BOTH, AND DISCHARGED IN A MANNER THAT DOES NOT ADVERSELY AFFECT FLOWING STREAMS OR OFF-SITE PROPERTY.
  - D. MATERIAL USED FOR BACKFILLING TRENCHES SHALL BE PROPERLY COMPACTED IN ORDER TO MINIMIZE EROSION AND PROMOTE STABILIZATION.
  - E. RESTABILIZATION SHALL BE ACCOMPLISHED IN ACCORDANCE WITH STANDARDS 3.31 AND 3.32.
  - F. ALL TRENCHING SHALL BE IN ACCORDANCE WITH APPLICABLE SAFETY STANDARDS.

1. NO DISTURBED AREA WILL REMAIN DENuded FOR MORE THAN 7 CALENDAR DAYS UNLESS OTHERWISE AUTHORIZED BY THE DIRECTOR OR HIS AGENT.
2. ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO OR AS THE FIRST STEP IN GRADING. FIRST AREAS TO BE CLEARED ARE TO BE THOSE REQUIRED FOR THE PERIMETER CONTROLS.
3. ALL STORM AND SANITARY SEWER LINES NOT IN STREETS ARE TO BE MULCHED AND SEEDED WITHIN 5 DAYS AFTER BACKFILL. NO MORE THAN 500 FEET ARE TO BE OPEN AT ANY ONE TIME.
4. ELECTRIC POWER, TELEPHONE, AND GAS SUPPLY TRENCHES ARE TO BE COMPACTED, SEEDED, AND MULCHED WITHIN 5 DAYS AFTER BACKFILL.
5. ALL TEMPORARY EARTH BERMS, DIVERSIONS, AND SEDIMENT CONTROL DAMS ARE TO BE MULCHED AND SEEDED FOR TEMPORARY VEGETATIVE COVER IMMEDIATELY AFTER GRADING. STRAW OR HAY MULCH IS REQUIRED. THE SAME APPLIES TO ALL SOIL STOCKPILES.
6. DURING CONSTRUCTION, ALL STORM SEWER INLETS WILL BE PROTECTED BY INLET PROTECTION.

MS-1	TEMPORARY AND PERMANENT STABILIZATION HAS BEEN ADDRESSED.
MS-2	THERE ARE NO STOCKPILES PROPOSED WITH THIS PLAN.
MS-3	MAINTENANCE OF PERMANENT STABILIZATION HAS BEEN ADDRESSED, SEE PERMANENT STABILIZATION.
MS-4	SEDIMENT TRAPPING FACILITIES ARE TO BE INSTALLED AS THE FIRST STEP IN LAND DISTURBING ACTIVATES. MAINTENANCE OF FACILITIES ARE DETAILED UNDER THE EROSION AND SEDIMENT CONTROL NOTES.
MS-5	THERE ARE NO EARTHEN STRUCTURE PROPOSED WITH THIS PROJECT.
MS-6	THERE ARE NO SEDIMENT BASINS PROPOSED WITH THIS PROJECT.
MS-7	THERE ARE NO CUT AND FILL SLOPES PROPOSED WITH THIS PROJECT.
MS-8	THERE ARE NO PAVED FLUMES, CHANNELS, OR SLOPE DRAINS PROPOSED WITH THIS PROJECT.
MS-9	THERE ARE NO WATER SEEPS ANTICIPATED WITH THIS PROJECT.
MS-10	INLET PROTECTION IS PROVIDED ON INLETS DOWN GRADIENT FROM DISTURBED AREAS.
MS-11	ADEQUATE OUTLET PROTECTION EXIST AT ALL EXISTING OUTLETS. THERE ARE NO NEW OUTLETS PROPOSED.
MS-12	THERE ARE NO IN-STREAM CONSTRUCTION MEASURES PROPOSED WITH THIS PROJECT.
MS-13	THERE ARE NO STREAM CROSSINGS PROPOSED WITH THIS PROJECT.
MS-14	THERE ARE NO WATERCOURSES BEING CROSSED WITH THIS PROJECT.
MS-15	THERE ARE NO IMPACTS TO IN-STREAM IMPROVEMENTS PROPOSED WITH THIS PROJECT.
MS-16	UTILITY TRENCHING HAS BEEN ADDRESSED IN THE EROSION AND SEDIMENT CONTROL NOTES.
MS-17	PREVENTING SOIL FROM BEING TRACKED ON THE STREETS IS ADDRESSED IN THE EROSION AND SEDIMENT CONTROL NOTES.
MS-18	THE REMOVAL OF TEMPORARY PRACTICES HAS BEEN ADDRESSED IN THE EROSION AND SEDIMENT CONTROL NOTES.
MS-19	THIS PROJECT REDUCES THE IMPERVIOUS AREA AND DECREASE THE RUNOFF FROM THE SITE AREA. DOWNSTREAM OUTFALL POINTS ARE ADEQUATELY PROTECTED AND ARE NOT ACTIVELY ERODING. OUTFALL POINTS HAVE BEEN ANALYZED AND FOUND TO BE ADEQUATE IN ACCORDANCE WITH THE STATE OUTFALL REQUIREMENTS.

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*date*

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

Re: Erosion and Sediment Control Permit Application for:

\_\_\_\_\_

*street address*

\_\_\_\_\_

*lot, block, section subdivision*

\_\_\_\_\_

*permit number*

Dear Mrs. Li:

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

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

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

Sincerely,

\_\_\_\_\_

*signed*

\_\_\_\_\_

*name printed*

\_\_\_\_\_

*professional registration (type and number)*

- STOCKPILES**
- STOCKPILED SOIL AND OTHER LOOSE MATERIALS THAT CAN BE WASHED AWAY SHALL BE COVERED WITH A TARP, PLASTIC SHEETING, OR OTHER STABILIZATION MATTING. THE COVER MUST BE PROPERLY SECURED / ANCHORED DOWN TO PREVENT IT FROM BEING BLOWN OFF AND EXPOSING MATERIALS TO RAIN. CONTROLS SUCH AS HAY BALES OR BOOMS SHOULD BE PLACED ALONG THE PERIMETER OF THE STOCK PILE (DOWNHILL SIDE).
- INLET PROTECTION**
- INLET PROTECTION CONTROLS SHALL BE INSPECTED TO ENSURE THEY ARE FUNCTIONING PROPERLY AND FLOODING WILL NOT OCCUR. CLOGGED OR DAMAGED CONTROLS MUST BE REPLACED IMMEDIATELY. ENSURE CONTROLS ALLOW FOR OVERTFLOW / BYPASS OF STORMWATER RUNOFF DURING SIGNIFICANT STORM EVENTS.
  - ALL INLET PROTECTION IS TO BE PLACED WITHIN THE PROJECT LOD APPLICABLE TO THE CURRENTLY UTILIZED WORK AREA.
- IN ADDITION TO THESE PRE-STORM ACTIONS, ALL EROSION AND SEDIMENT CONTROL (ESC) MEASURES MUST BE CHECKED DAILY AND AFTER EACH SIGNIFICANT RAINFALL.

PROJECT DESCRIPTION:  
THIS PROJECT RECONSTRUCTS EXISTING COLUMBIA PIKE FROM SOUTH OAKLAND STREET TO SOUTH WAKEFIELD STREET, FROM BACK OF SIDEWALK TO THE OPPOSITE BACK OF SIDEWALK, DISTURBING APPROXIMATELY 7.96 ACRES. THE PROJECT INCLUDES RECONSTRUCTION OF SIGNALS ALONG THE CORRIDOR AND RELOCATION OF THE EXISTING UTILITIES. ALL CONSTRUCTION WORK WILL BE FOR THE DURATION OF 365 TOTAL CALENDAR (260 WORK DAYS). WORK DAYS NOT TO INCLUDE ARLINGTON COUNTY PUBLIC HOLIDAYS.

EXISTING CONDITIONS:  
COLUMBIA PIKE IS A MULTI-LANE, CURB AND GUTTER ROAD WITH SIDEWALKS ON BOTH SIDES. OVERHEAD UTILITIES ARE LOCATED ALONG MOST OF THE ROAD. THE RIGHT OF WAY INCLUDES STREET TREES, STREET LIGHTING, STORM DRAINAGE STRUCTURES AND PIPES, SANITARY SEWER MAINS, WATER MAINS, NATURAL GAS, ELECTRIC LINES, COMMUNICATIONS LINES AND MASS TRANSIT STOP LOCATIONS. MINIMAL CHANGES TO THE EXISTING TOPOGRAPHY ARE PROPOSED WITH LIMITED AREAS OUTSIDE OF THE RIGHT-OF-WAY BEING IMPACTED. MOST OF THE EXISTING VEGETATION WITHIN THE PROJECT LIMITS SHALL BE REPLACED. EXISTING MINOR DRAINAGE FEATURES ARE TO BE IMPROVED WITH ADDITIONAL STORM DRAINAGE INLETS. THERE ARE NO NEW CUT OF FILL SLOPES PROPOSED.

ADJACENT AREAS:  
COLUMBIA PIKE IS BOUND ON BOTH SIDES WITH A MIXTURE OF COMMERCIAL AND RESIDENTIAL DEVELOPMENTS. SOME OF THE ADJACENT PARCELS HAVE RECENTLY BEEN REDEVELOPED AND IN SOME CASES THOSE IMPROVEMENTS WILL REMAIN UNDISTURBED. THE CONTRACTOR SHALL PROVIDE TO THE ARLINGTON COUNTY INSPECTOR PHOTOGRAPHS OF IMMEDIATE ADJACENT AREAS TO DOCUMENT ADJACENT OFFSITE CONDITIONS PRIOR TO INSTALLING PERIMETER EROSION CONTROLS.

OFF-SITE AREAS:  
THERE ARE NO OFF-SITE AREAS OR STOCKPILES ASSOCIATED WITH THIS PROJECT. OFFSITE AREAS DAMAGED BY THE CONTRACTOR OR ITS LACK OF EROSION CONTROLS SHALL BE REPAIRED BY THE CONTRACTOR, AT ITS EXPENSE, IN A TIMELY MANNER.

SOILS:  
THE SOILS IN THE PROJECT AREA HAVE BEEN MAPPED AS URBAN LAND - UDORTHERTS COMPLEX WHICH ARE SOILS THAT HAVE BEEN PREVIOUSLY DISTURBED AND NOT CHARACTERIZED. THE SOILS ALONG THIS PROJECT AREA HAVE BEEN ANALYZED BY GEOCONCEPTS ENGINEERING, INC. AND A GEOTECHNICAL REPORT HAS BEEN PROVIDED IN THE CONTRACT DOCUMENTS. THE SOILS HAVE BEEN LISTED AS A SANDY FAT CLAY (USCS - CH) AND CLAYED SAND W/ GRAVEL (USCS - SC). ADDITIONAL INFORMATION IS AVAILABLE IN THE PROJECT GEOTECHNICAL REPORT.

CRITICAL AREAS:  
THERE ARE NO CRITICAL AREAS ASSOCIATED WITH THIS PROJECT. DISTURBANCE SHALL BE LIMITED TO SMALL AREAS AND THE CONTRACTOR SHALL PROTECT THOSE AREAS AS TO NOT CAUSE OR ALLOW FOR EROSION OF SOILS OUT OF THE PROJECT AREA.

THE FOLLOWING EROSION CONTROLS SHALL BE USED DURING THIS PROJECT:

1. COUNTY. SEE NEXT SHEET FOR DETAIL. SILT FENCE OR SUPER SILT FENCE SHALL BE USED IN ACCORDANCE WITH THIS STANDARD AND AS SPECIFIED BY ARLINGTON COUNTY. SEE NEXT SHEET FOR DETAIL. SILT FENCE OR SUPER SILT FENCE SHALL BE USED DOWN GRADIENT FROM DISTURBED AREAS AS SHOWN ON THE PLANS AND AS NEEDED TO PREVENT THE TRANSPORTATION OF SEDIMENT BEYOND THE PROJECT LIMITS. IT SHALL BE INSTALLED PRIOR TO STARTING LAND DISTURBANCE AND SHALL BE REMOVED AFTER THE DISTURBED AREA HAS HAD TEMPORARY OR PERMANENT STABILIZATION ESTABLISHED. COORDINATE REMOVAL WITH THE ARLINGTON COUNTY INSPECTOR.
2. STD. 3.07-7 STORM DRAIN INLET PROTECTION - STORM DRAINAGE INLETS SHALL BE PROTECTED IN ACCORDANCE WITH THIS STANDARD. INLETS DOWN GRADIENT FROM AND TRAPPING ACTIVITIES SHALL HAVE INLET PROTECTION INSTALLED PRIOR TO STARTING LAND DISTURBANCE. CARE SHALL BE TAKEN AS NOT TO INTERFERE WITH TRAFFIC ON COLUMBIA PIKE WHEN SELECTING THE TYPE OF INLET PROTECTION TO BE USED. THE CONTRACTOR IS TO REMOVE SILT BUILDUP PROMPTLY SO THAT SILT IS NOT TRACKED ALONG THE ROAD. REMOVAL OF THE INLET PROTECTION SHALL OCCUR ONCE DISTURBED AREA UP GRADIENT OF THE INLET HAVE BEEN STABILIZED AND IN COORDINATION WITH THE ARLINGTON COUNTY INSPECTOR.
3. STD. 3.26 DEWATERING STRUCTURE - ALL DISCHARGES FROM DEWATERING OPERATIONS SHALL BE IN ACCORDANCE WITH THIS STANDARD. DEWATERING CONTROLS SHALL BE USED AT ALL DEWATERING DISCHARGES. THE CONTRACTOR IS TO NOTIFY THE ARLINGTON COUNTY INSPECTOR PRIOR TO DISCHARGING DEWATERING EFFLUENT OF THE LOCATION OF FILTER CONTROL THAT WILL BE USED AND FOR HOW LONG IT WILL BE USED.
4. STD. 3.31 TEMPORARY SEEDING - TEMPORARY SEEDING SHALL BE APPLIED IN ACCORDANCE WITH THIS STANDARD. TEMPORARY STABILIZATION IS REQUIRED WHEN AN AREA IS NOT TO BE WORKED WITHIN A 7 DAY PERIOD. THE CONTRACTOR SHALL STABILIZE DISTURBED AREAS AS SOON AS POSSIBLE IN ORDER TO ESTABLISH A SURFACE PROTECTION TO EROSION. TEMPORARY SEEDING SHALL BE CARED FOR AS NECESSARY IN ORDER TO GENERATE A DENSE, HEALTHY STAND OF VEGETATION THAT WILL RESIST EROSION.
5. STD. 3.33 SODDING - ALL SODDING SHALL BE IN ACCORDANCE WITH THIS STANDARD. SODDED AREAS SHALL BE MAINTAINED BY THE CONTRACTOR UNTIL THE SOD HAS BEEN ESTABLISHED AND HAD TWO MOWING CYCLES. THE CONTRACTOR SHALL COORDINATE THE RELEASE OF MAINTENANCE OF SODDED AREAS WITH THE ARLINGTON COUNTY INSPECTOR AND THE LAND OWNER.
6. STD. 3.38 TREE PRESERVATION AND PROTECTION - TREE PROTECTION FENCING SHALL BE IN ACCORDANCE WITH THIS STANDARD AND ARLINGTON COUNTY'S TREE PROTECTION FENCE, PLAN. SEE NEXT SHEET FOR DETAIL. TREE PROTECTION SHALL BE USED ALONG THE LIMITS OF DISTURBANCE WHERE AN OFFSITE TREE OR LANDSCAPED AREA MAY HAVE A CRITICAL ROOT ZONE THAT EXTENDS INTO THE LIMITS OF THIS PROJECT. THE ARLINGTON COUNTY URBAN FORESTER MAY REQUIRE ADDITIONAL TREE PRESERVATION AND PROTECTION BE INSTALLED PRIOR TO STARTING LAND DISTURBING ACTIVITIES. TREE PRESERVATION AND PROTECTION SHALL ONLY BE REMOVED WITH THE APPROVAL OF THE ARLINGTON COUNTY URBAN FORESTER.
7. STD. 3.39 DUST CONTROL - DUST CONTROL SHALL BE IN ACCORDANCE WITH THIS STANDARD AND AS SPECIFIED BY ARLINGTON COUNTY. DUST SHALL BE CONTROLLED USING A VARIETY OF METHODS TO INCLUDE: VEGETATIVE COVER, MULCH, TILLAGE, IRRIGATION, SPRAY-ON ADHESIVES, STONE, BARRIERS, SODDING, AND CALCIUM CHLORIDE.
8. THE CONTRACTOR SHALL USE APPROPRIATE METHODS TO ESTABLISH PERMANENT STABILIZATION THAT ARE SIMILAR TO THE CONDITION THAT WAS PRESENT PRIOR TO STARTING LAND DISTURBANCE ACTIVITIES.

ALL DISTURBED AREAS BY THIS PROJECT SHALL BE STABILIZED WITH PERMANENT GROUND COVER UTILIZING STD. 3.35. SODDING IS THE REQUIRED GROUND COVER FOR AREAS THAT ARE CURRENTLY GRASS. THE CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE OF ALL DISTURBED AREAS UNTIL FINAL ACCEPTANCE BY ARLINGTON COUNTY AND/OR LAND OWNER. THIS SHALL INCLUDE CUTTING THE GRASS TO MAINTAIN THE SAME APPEARANCE AS THE ADJOINING PROPERTY.

THIS PROJECT REDUCES THE OVERALL IMPERVIOUSNESS OF THE SITE AREA AND DOES NOT INCREASE SURFACE RUNOFF PATTERNS OR VOLUMES. NO FLOODING OR CHANNEL DEGRADATION IS ANTICIPATED DOWNSTREAM OF THE PROJECT DUE TO THE PROPOSED REDUCTION IN RUNOFF.

DETAILED CALCULATIONS SHOWING DRAINAGE AREAS, INLET COMPUTATIONS, PIPE CAPACITIES AND FLOWS ARE INCLUDED IN THIS SET OF PLANS.

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. THESE SUPPLEMENTARY PRACTICES ARE IN ADDITION TO THOSE SHOWN IN AN ESC PLAN. ESC PRACTICES SHALL BE MODIFIED AS NEEDED TO ENSURE ONLY CLEAR WATER IS DISCHARGED FROM THE SITE.

THE FOLLOWING ACTIONS SHALL BE TAKEN PRIOR TO STORM EVENTS WITH PREDICTED HEAVY AND/OR LARGE VOLUME RAINFALL TO PREVENT SEDIMENT DISCHARGES FROM A CONSTRUCTION SITE. A TYPICAL SUMMER THUNDERSTORM IS AN EXAMPLE OF A STORM EVENT WITH PREDICTED HEAVY AND/OR LARGE VOLUME RAINFALL.

- \* SILT FENCE SHALL BE CHECKED FOR UNDERMINING, HOLES, OR DEGRADATION OF THE FABRIC. FENCING SHALL BE REPLACED IMMEDIATELY IF THE FABRIC IS DAMAGED OR WORN. SILT FENCE MUST BE TRENCHED INTO THE GROUND PER STATE SPECIFICATIONS (STD & SPEC 3.09).
- \* WOODEN STAKES OR STEEL POSTS SHALL BE PROPERLY SECURED UPRIGHT INTO THE GROUND. DAMAGED POSTS OR STAKES MUST BE REPLACED.
- \* SEDIMENT THAT HAS ACCUMULATED AGAINST THE SILT FENCE SHOULD BE REMOVED. ACCUMULATED SEDIMENT MUST BE REMOVED WHEN THE LEVEL REACHES ONE-HALF THE HEIGHT OF THE FENCING.
- \* HAY BALES OR A STONE BERM SHOULD BE PLACED ACROSS THE CONSTRUCTION ENTRANCE TO PREVENT SEDIMENT FROM LEAVING THE CONSTRUCTION SITE.

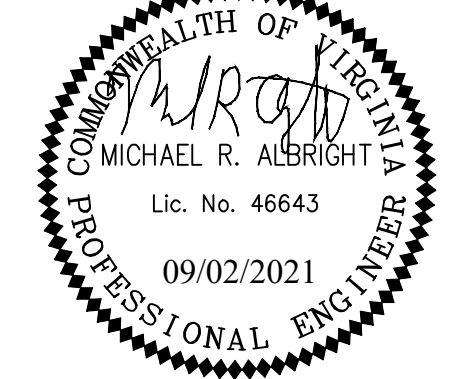
<ul style="list-style-type: none"> <li>* EXPOSED SLOPES NOT AT THE FINAL STABILIZATION PHASE SHALL BE COVERED WITH TARPS, PLASTIC SHEETING, OR EROSION CONTROL MATTING. COVERING MATERIAL SHALL BE PROPERLY SECURED/ANCHORED.</li> <li>* CONTROLS SHALL BE INSTALLED TO PREVENT CONCENTRATED FLOW DOWN AN EXPOSED SLOPE.</li> <li>* BERMS OR DIVERSION DIKES SHALL BE INSTALLED AT THE TOP OF CUT / EXPOSED SLOPES TO DIRECT STORM FLOW AROUND THE DISTURBED AREA.</li> <li>* EXPOSED SLOPES AT THE FINAL STABILIZATION PHASE SHALL BE STABILIZED USING SOLE</li> <li>* STABILIZATION PRACTICES SUCH AS SOIL STABILIZATION BLANKETS OR MATTING AS SPECIFIED IN THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK (VESC) STD &amp; SPEC 3.36. BLANKETS OR MATS MUST BE PROPERLY SECURED AND ANCHORED TO THE SLOPE USING STAPLES, PINS, OR STAKES.</li> <li>* SEEDED AREAS SHALL BE CHECKED AND RESEEDED AS NECESSARY TO COVER EXPOSED SOIL.</li> <li>* RECENTLY SEEDING AREAS SHALL BE PROTECTED BY STRAW OR SOIL STABILIZATION BLANKETS TO PREVENT SEEDING FROM BEING WASHED AWAY.</li> </ul>	<p>ARLINGTON COUNTY, VA DEPARTMENT OF ENVIRONMENTAL SERVICES</p> <p>GENERAL NOTES AND DETAILS COLUMBIA PIKE - ROUTE 28 COLUMBIA PIKE - MULTIMODAL STRIP SEGMENT F</p>
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Facilities & Engineering Division  
Engineering Bureau  
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Fax: 703-674-1350

Seal



approvals D

Design Team Engineer Supervisor

### Construction Management Supervisor

Water, Sewer, Streets Bureau Chief

Transportation Director

Project Manager

Revisions	Date
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Drawn: KF

Miss Utility Transmittal #:

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Path: K:\NVA\_CAD\WY\110010073\_Columbia Pike Multimodal Production Task\7.5 Final Design of Columbia Pike Segments\Segment P\7.5.2 - 100% Design\PlanSheets

Plotted: September 02, 2021

Plotted by: patrick.husted

ARLINGTON COUNTY, VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL SERVICES

GENERAL NOTES AND DETAILS  
COLUMBIA PIKE - ROUTE 244  
COLUMBIA PIKE - MULTIMODAL STREET IMPROVEMENTS  
SEGMENT F

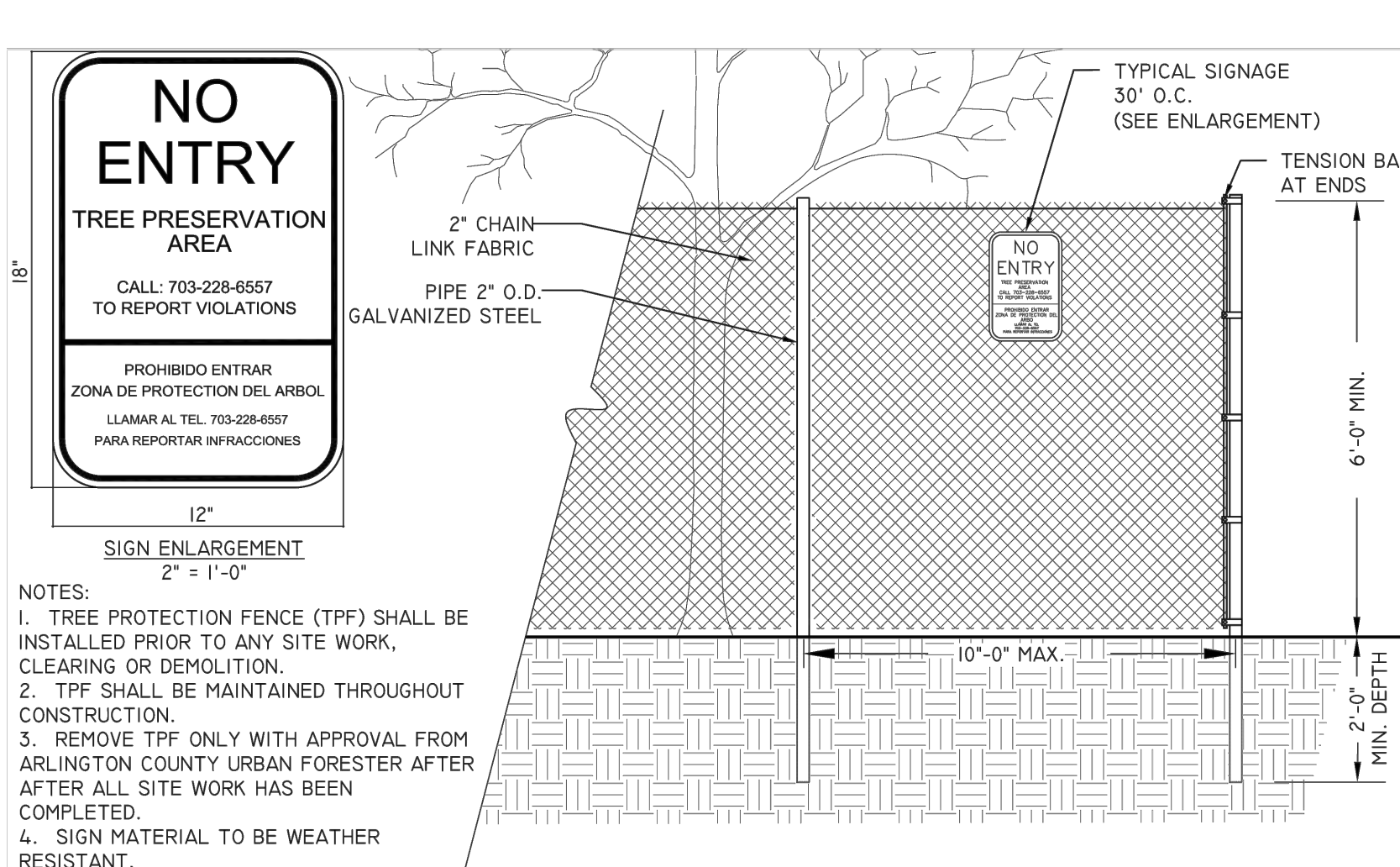
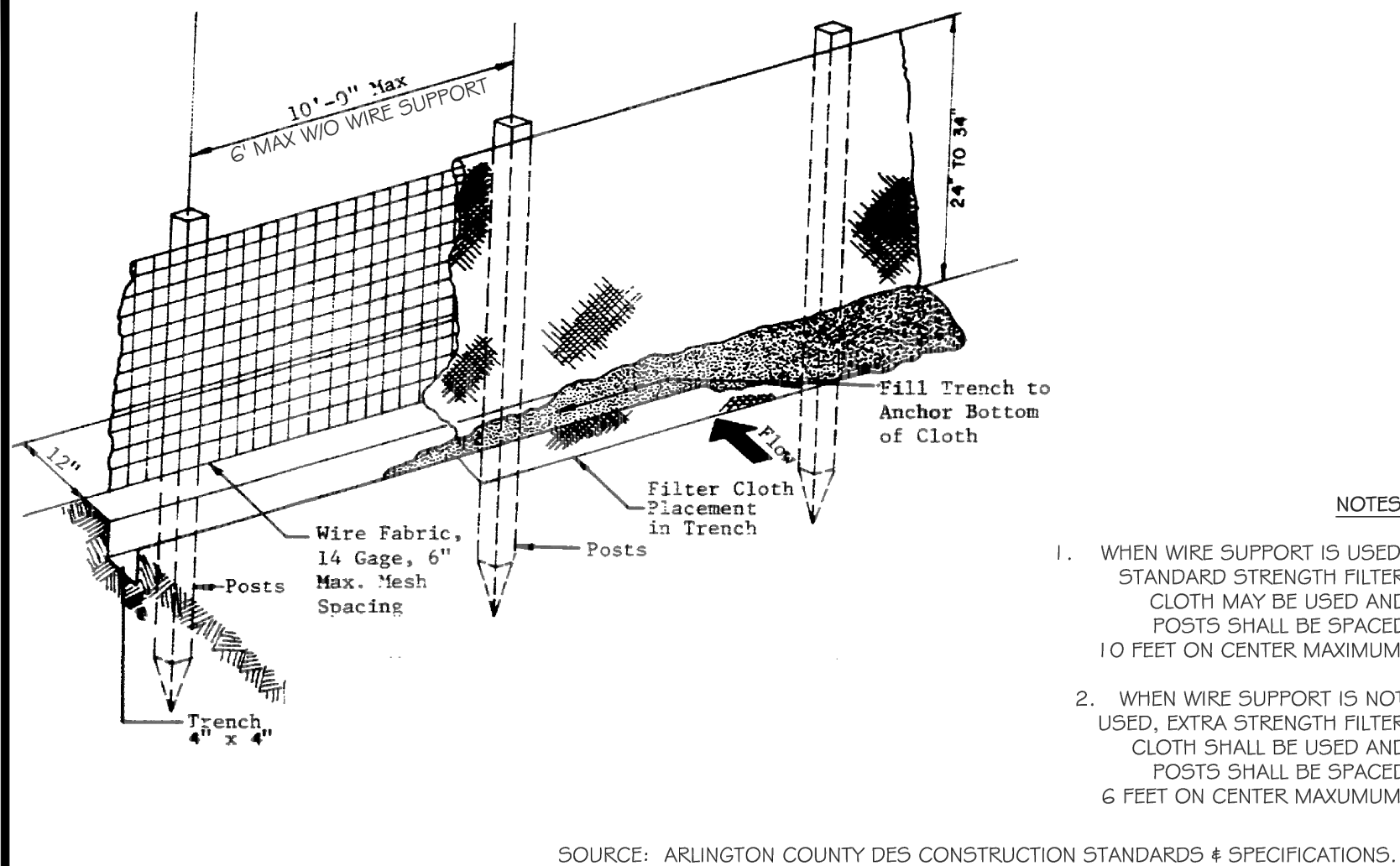
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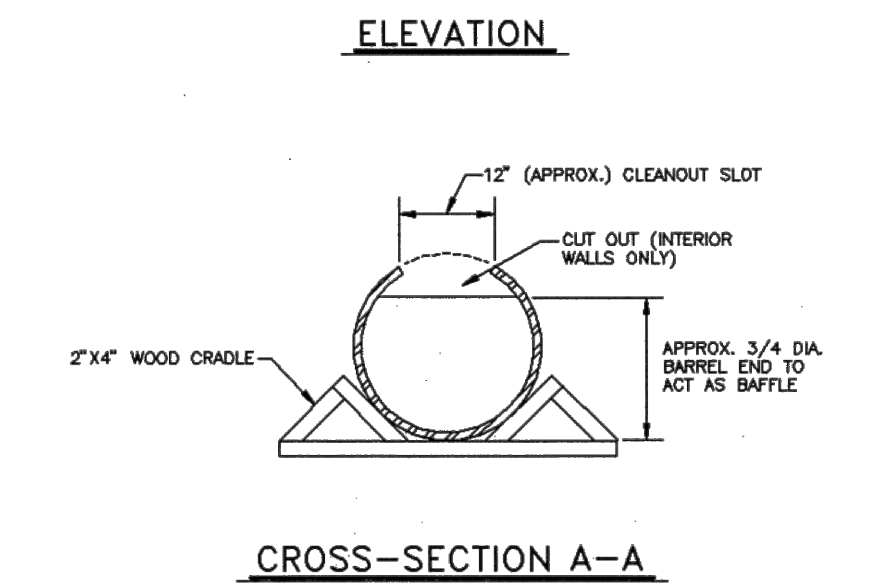
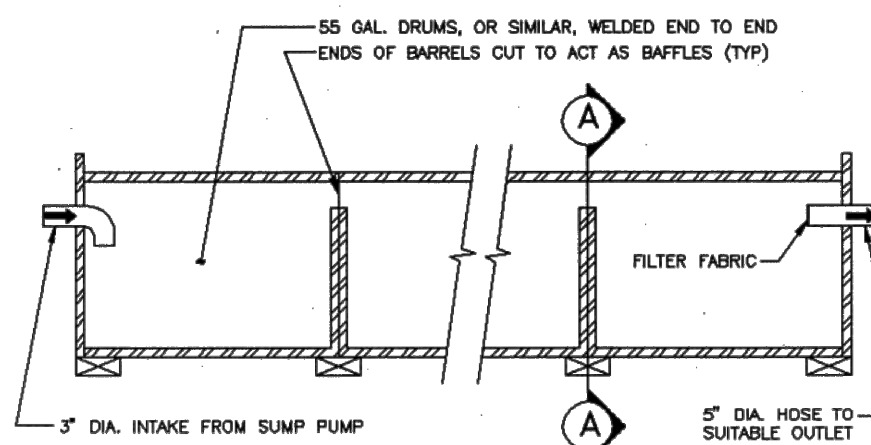
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## PORTABLE SEDIMENT TANK



## SODDING

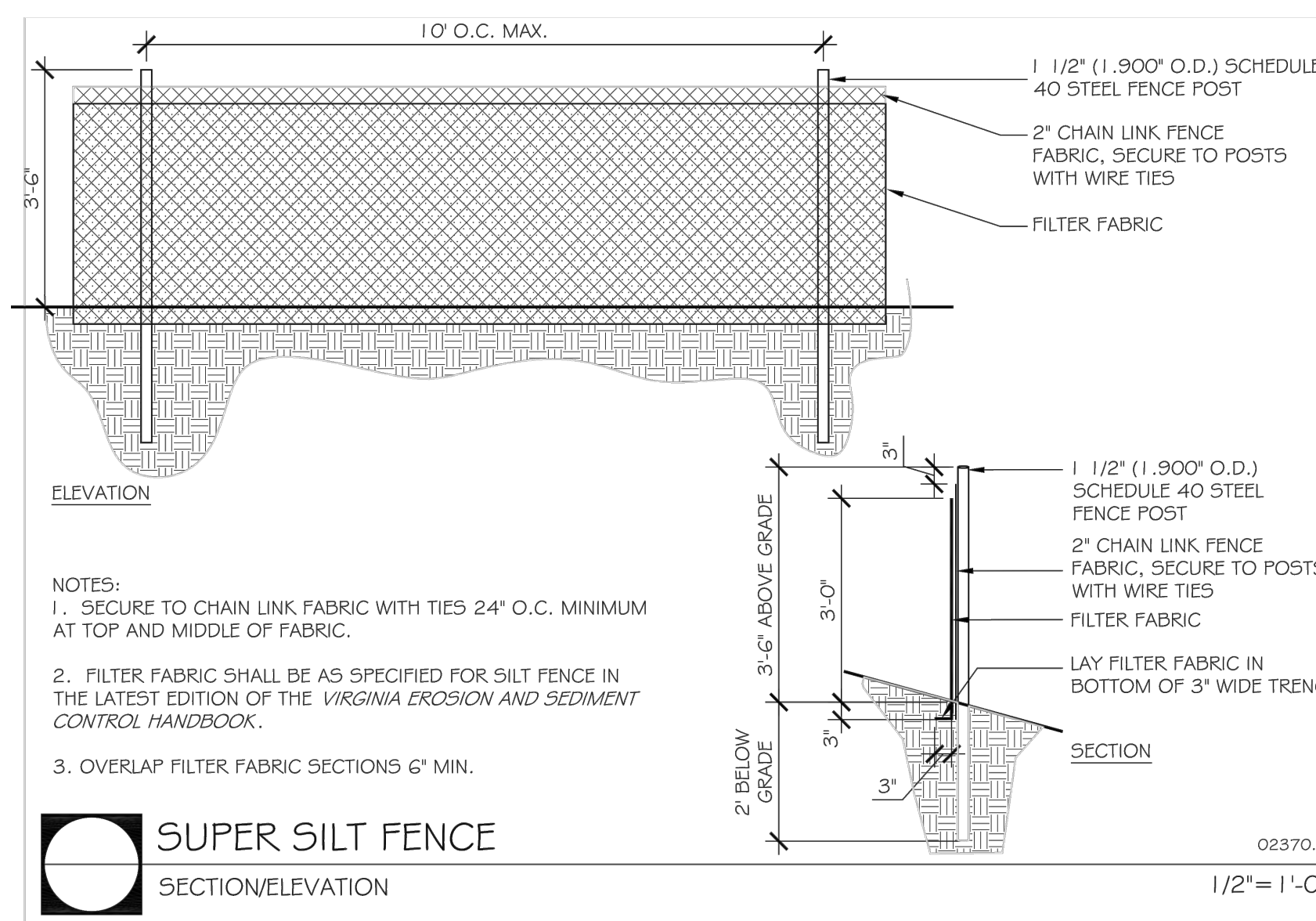
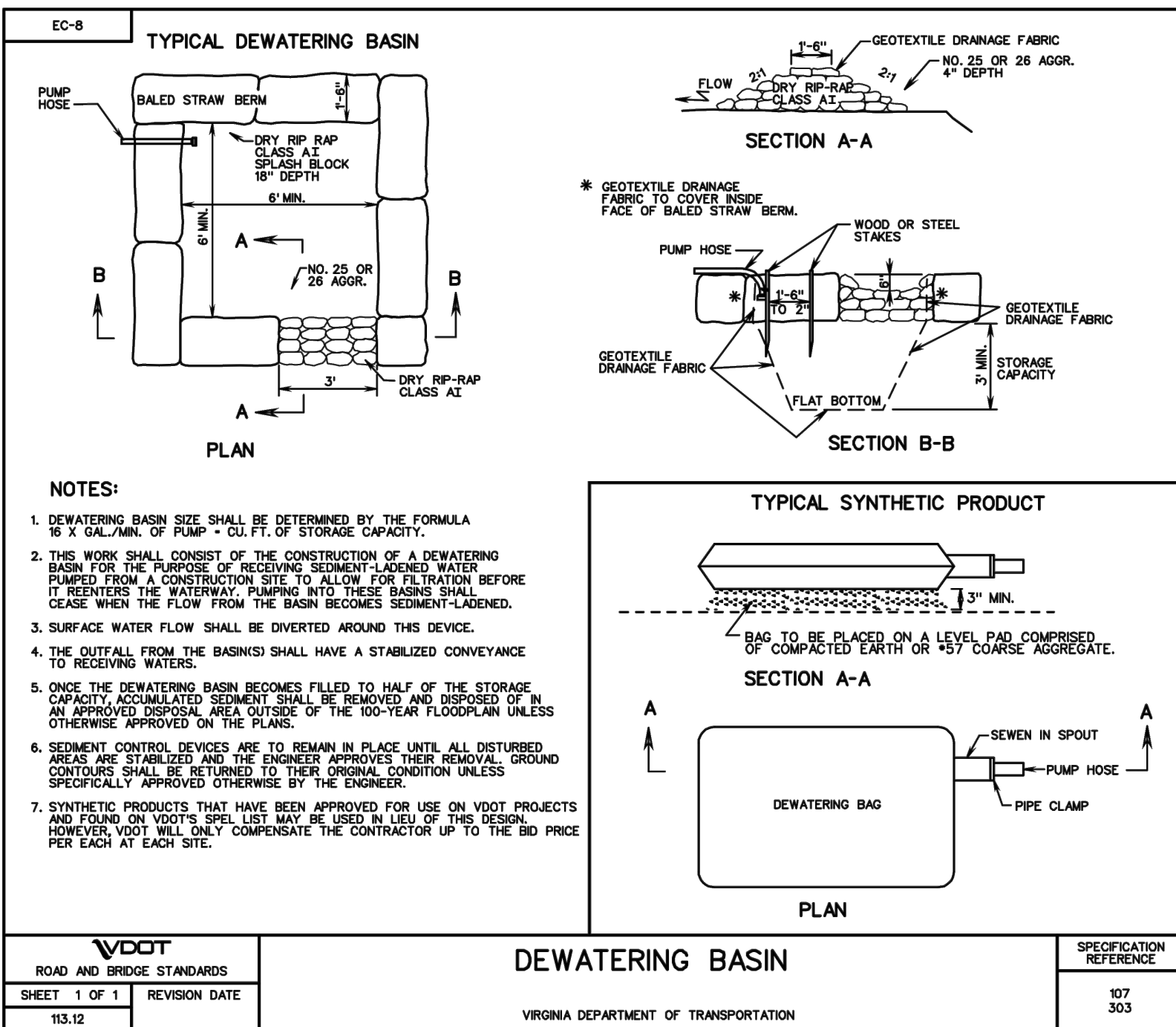
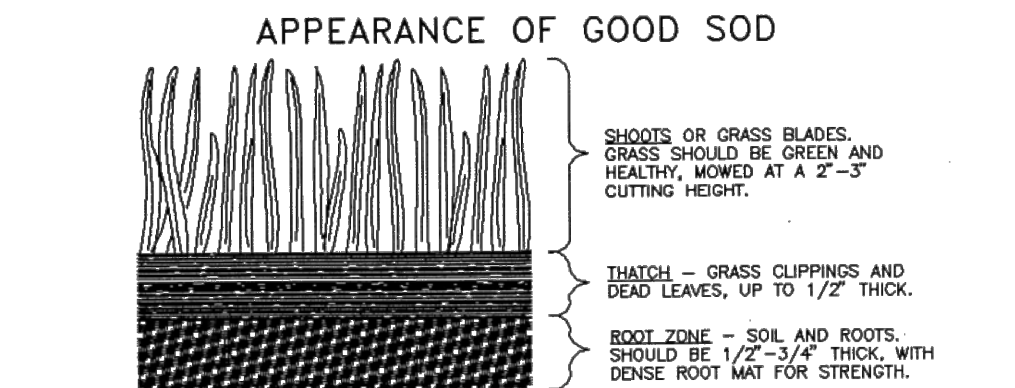
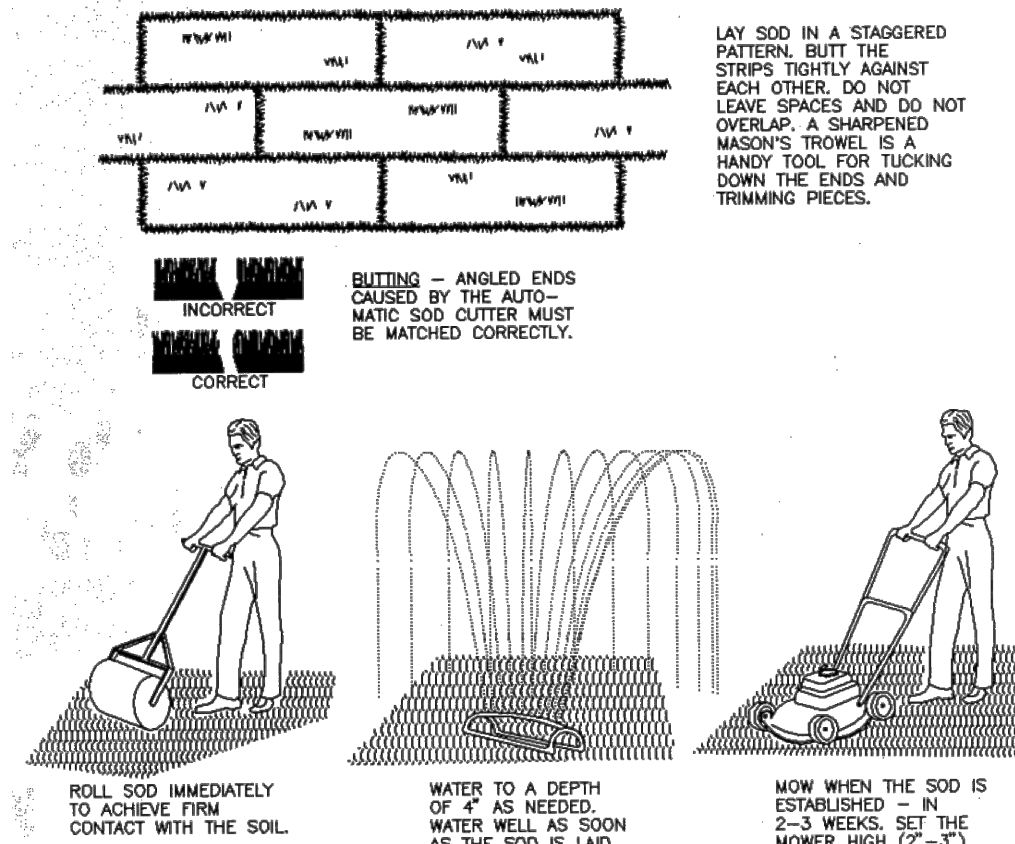


TABLE 3.31-B  
(Revised June 2003)  
TEMPORARY SEEDING SPECIFICATIONS  
QUICK REFERENCE FOR ALL REGIONS

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

### FERTILIZER & LIME

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

**NOTE:**

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

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

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

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

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

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

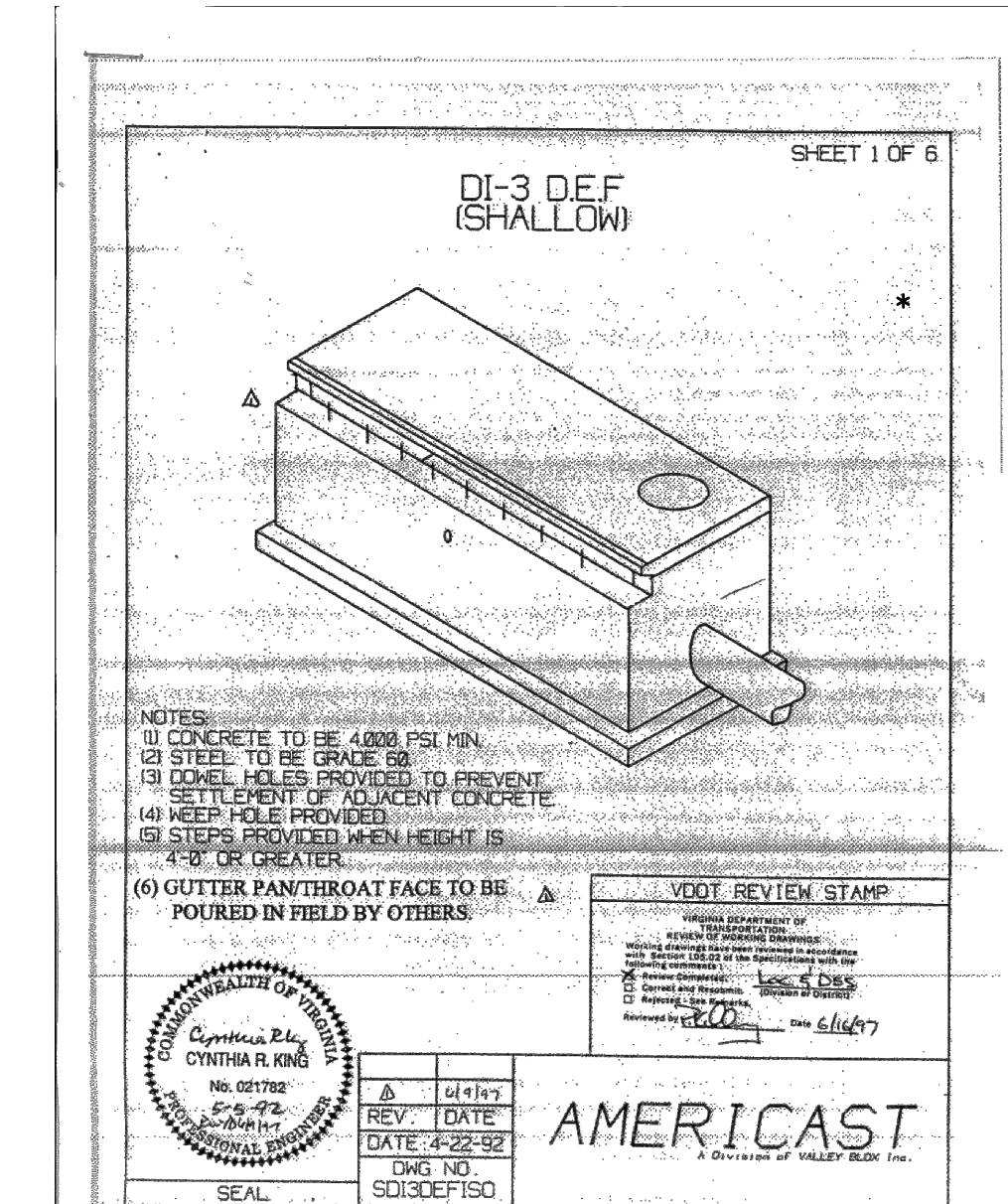
3 - Substitute Sericea lespedeza for Crownvetch east of Farmville, VA (May through September use hulled seed, all other periods, use unhulled Sericea). If Flatpea is used, increase rate to 30 lbs./acre. If Weeping Lovegrass is used, include in any slope or low maintenance mixture during warmer seeding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



\*OR APPROVED EQUAL

**NOTE:** WHERE DRAINAGE INLETS ARE PROPOSED IN A TRANSIT STOP PLATFORM WITH MODIFIED C-2 CURB AND GUTTER (9.5" CURB FACE HEIGHT), THE INLET STRUCTURE STOP IS TO BE THICKER CONCRETE SUCH THAT THE TOP ELEVATION MATCHES THE PROPOSED TOP OF CURB.

ARLINGTON COUNTY, VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL SERVICES

GENERAL NOTES AND DETAILS  
COLUMBIA PIKE - ROUTE 244  
COLUMBIA PIKE - MULTIMODAL STREET IMPROVEMENTS  
SEGMENT F

SCALE: HOR. N/A VERT. N/A SHEET: F2.4 of F2.5

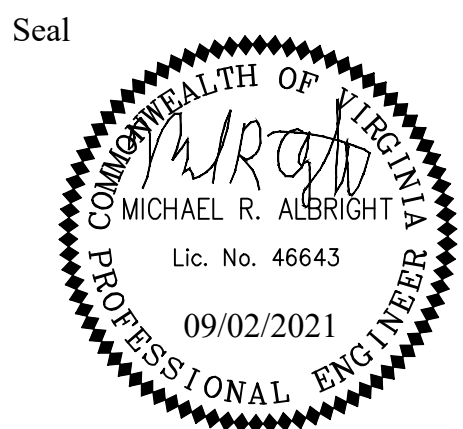


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Approvals Date

Design Team Engineer Supervisor

Construction Management Supervisor

Water, Sewer, Streets Bureau Chief

Transportation Director

Project Manager

Revisions Date

Designed: KF  
Drawn: KF  
Checked: MRA  
Miss Utility Transmittal #:

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12 - Final Design of Columbia Pike Segment F\12.1 - 100%  
Design\Drawings  
Plotted: September 02, 2021  
Plotted by: patrick.husted

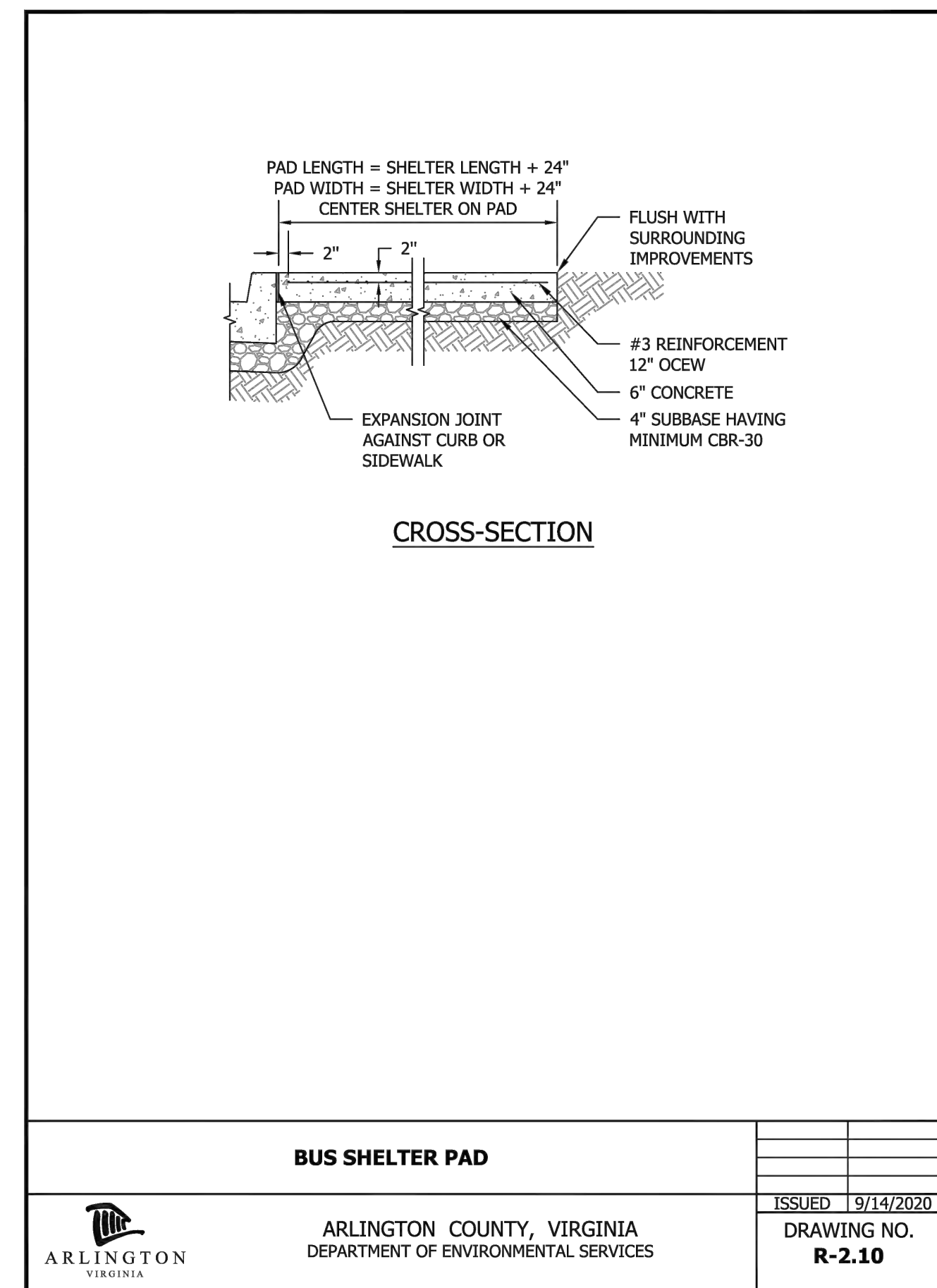
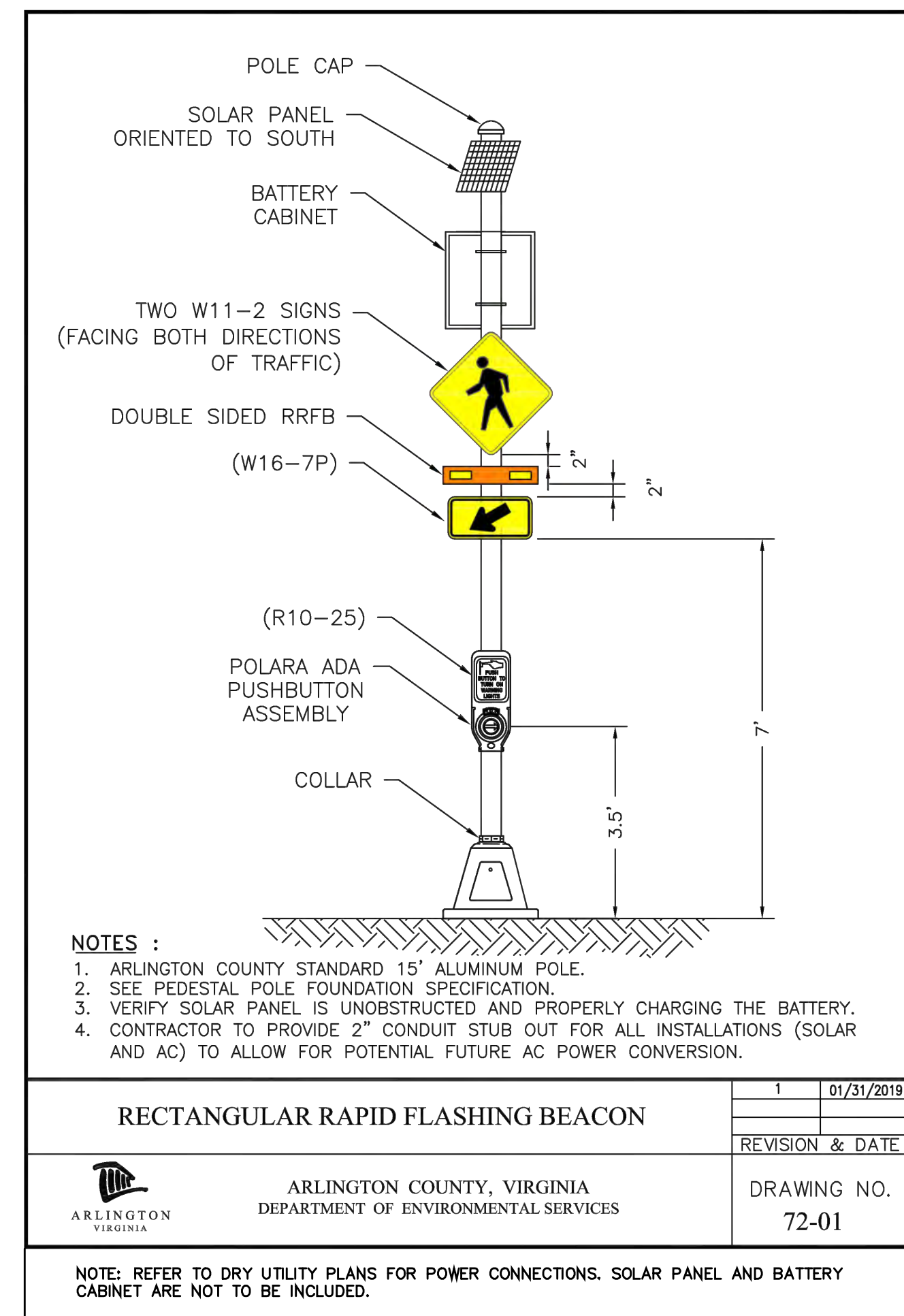
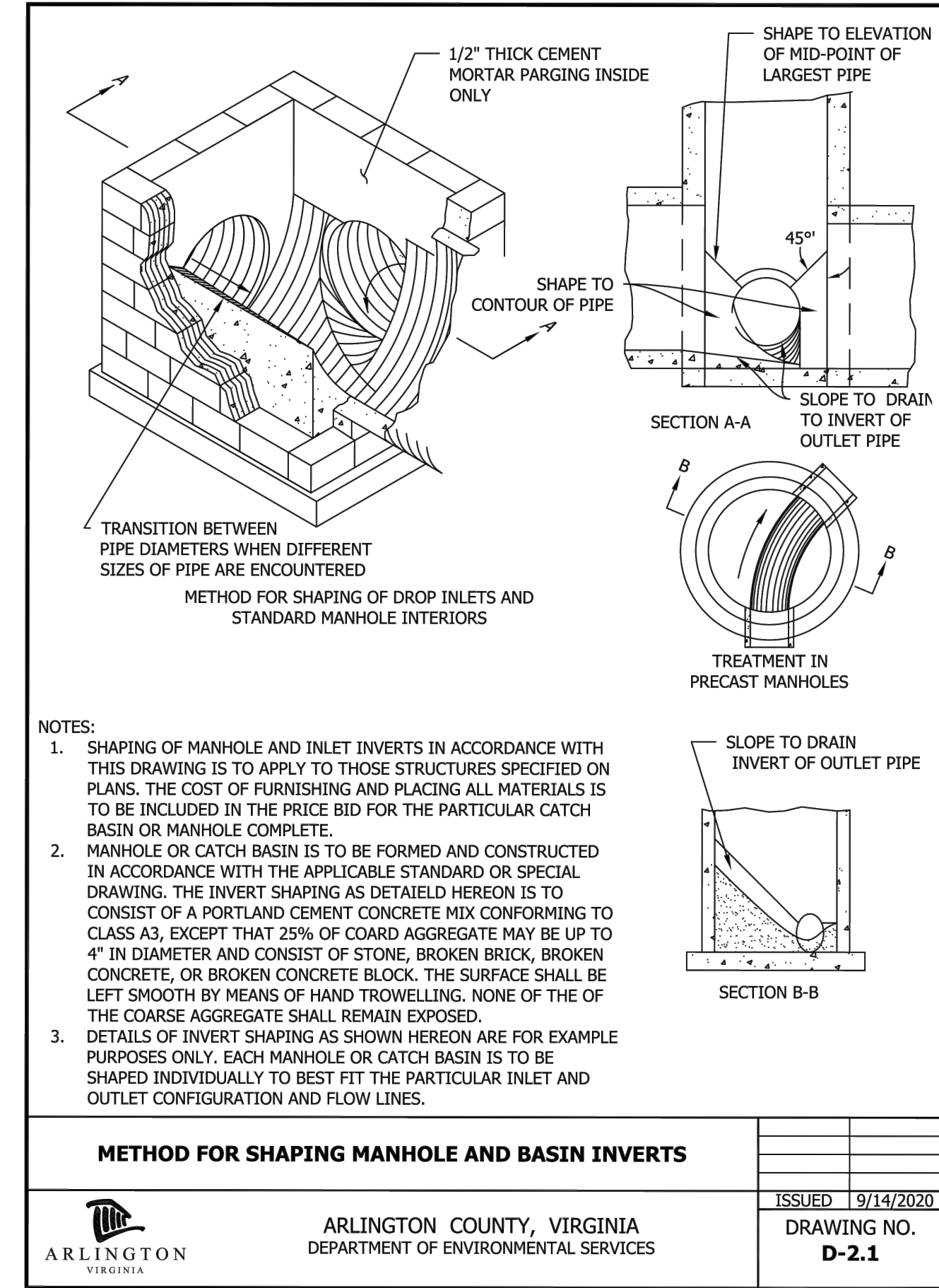
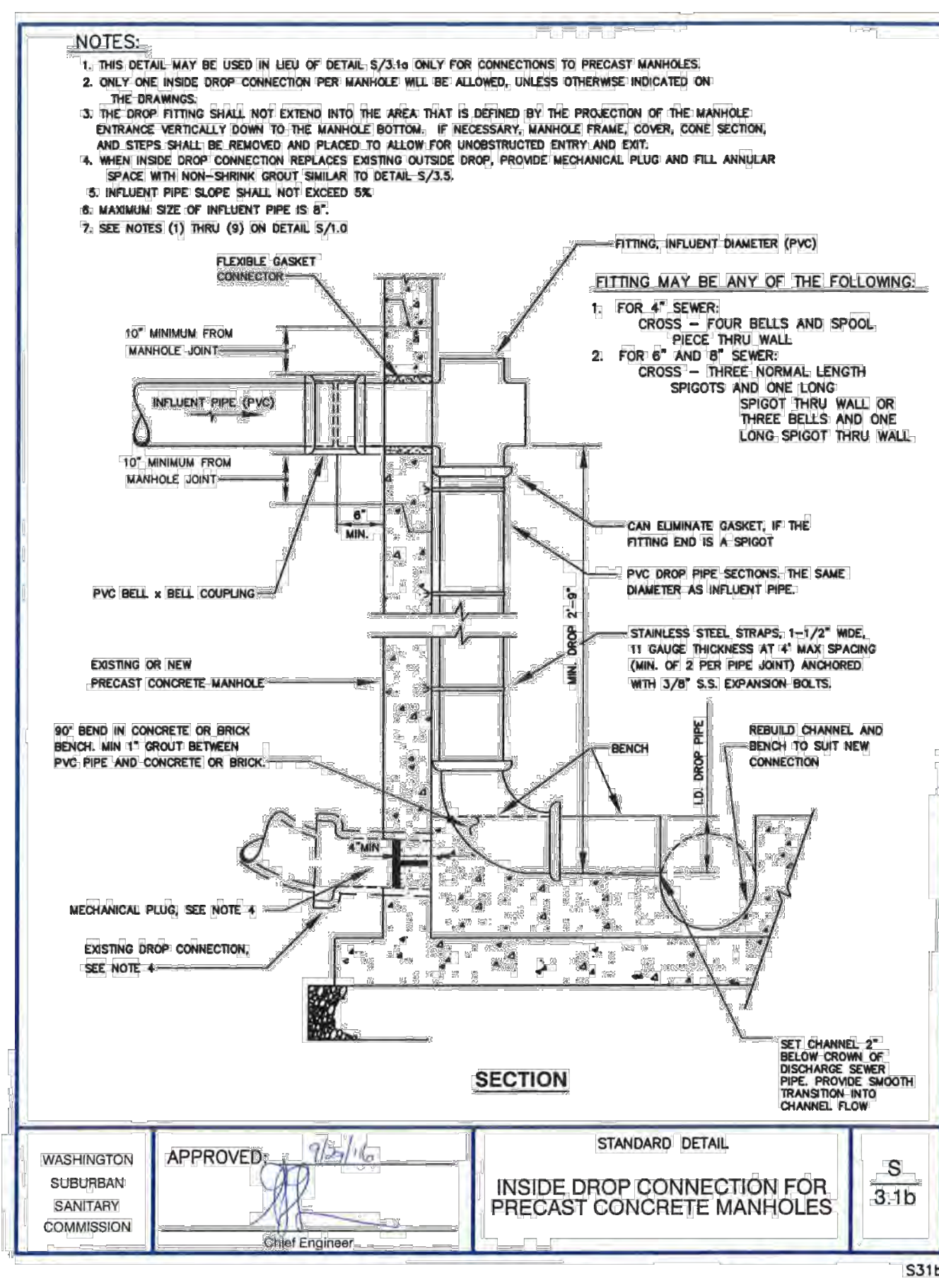
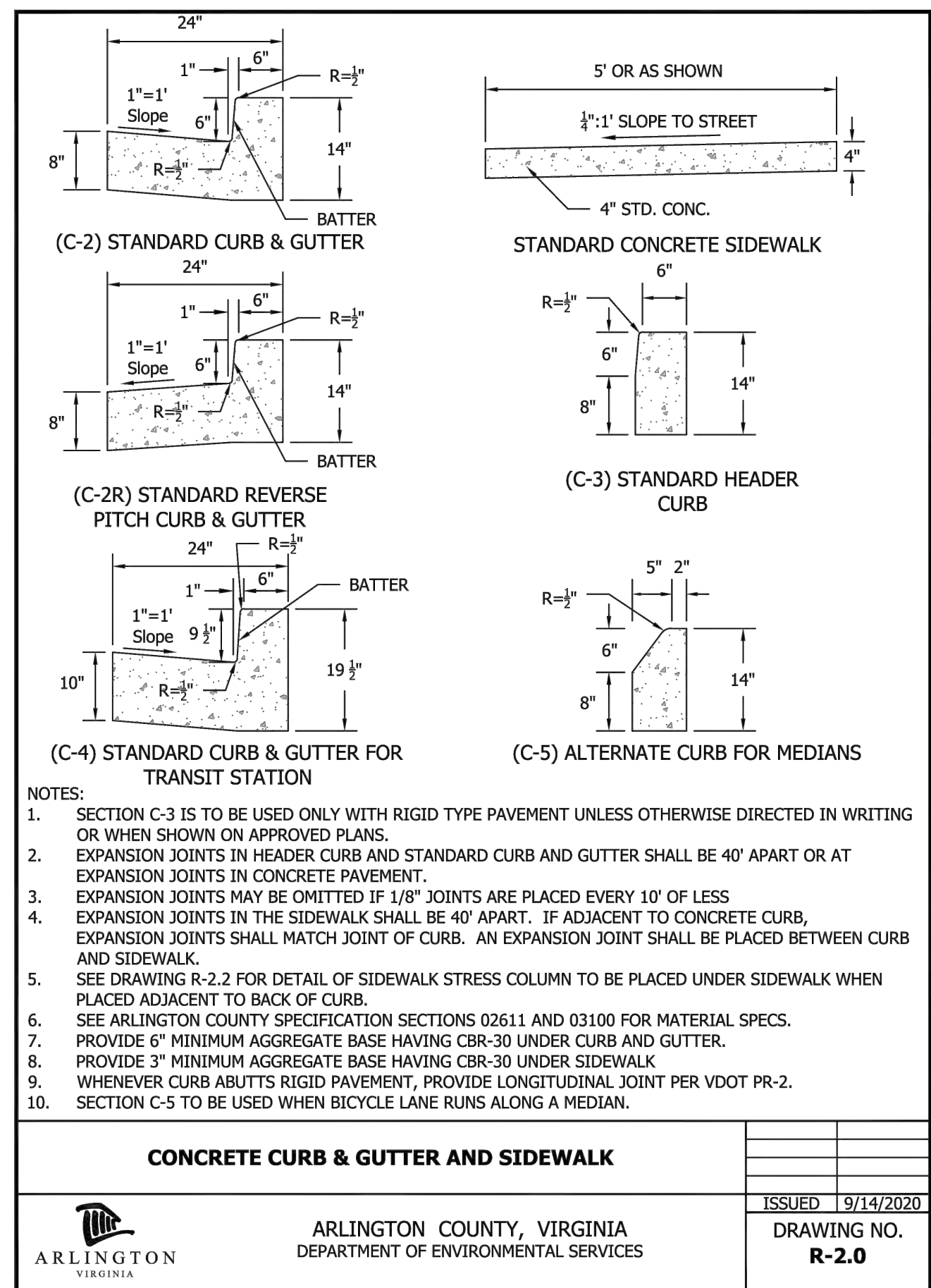
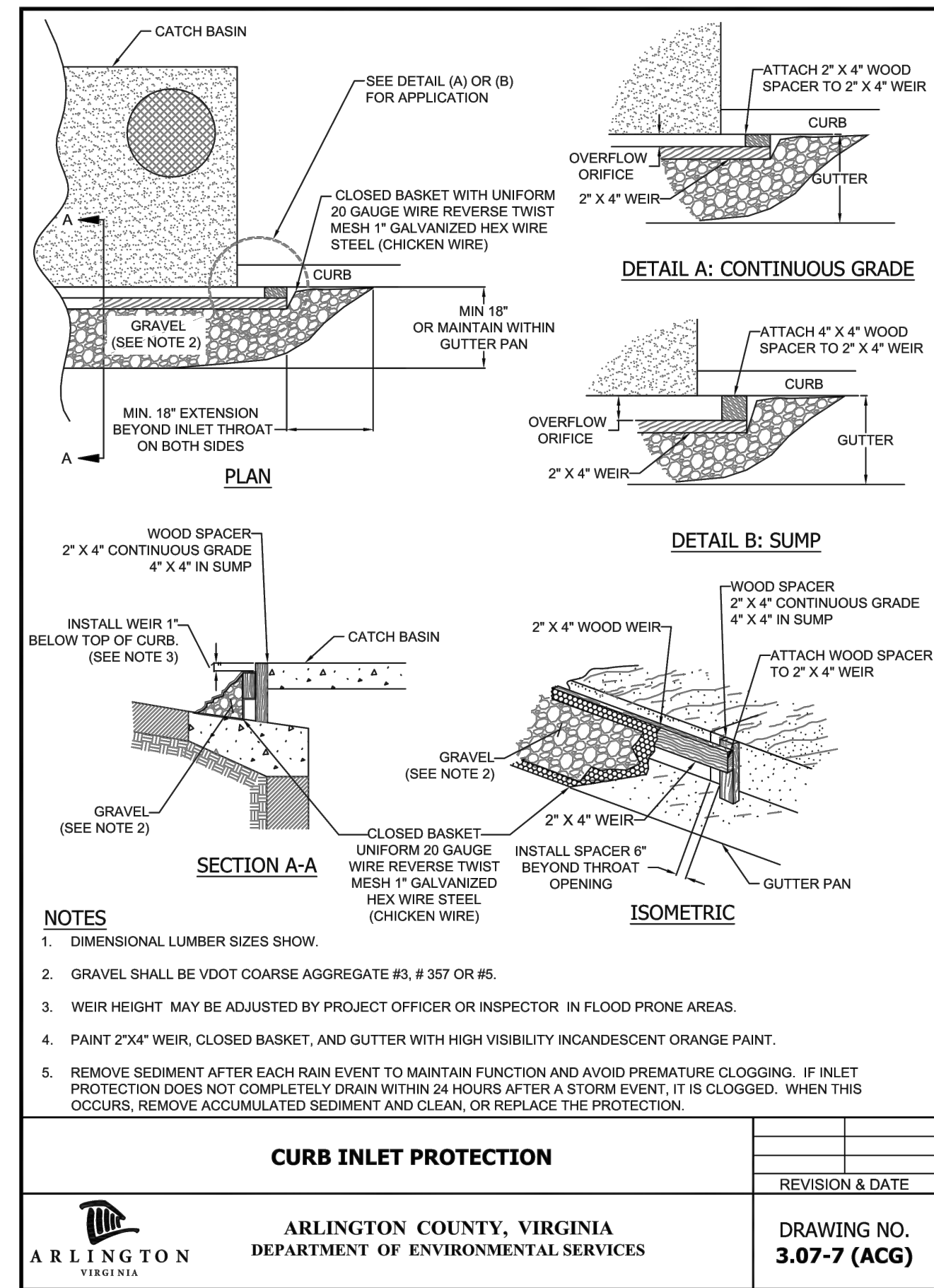


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LUIS ARAYA  
BUREAU CHIEF, DES - DEVELOPMENT SERVICES

10/19/2021  
APPROVAL DATE



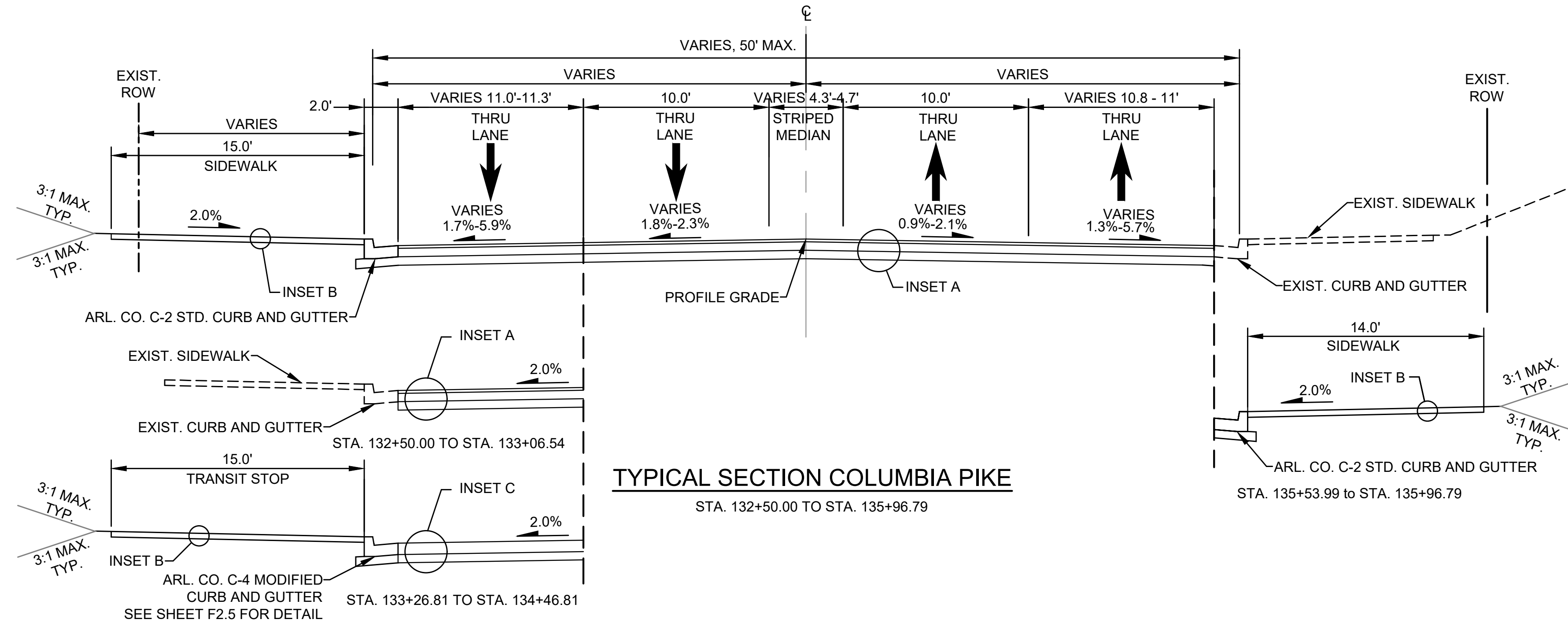


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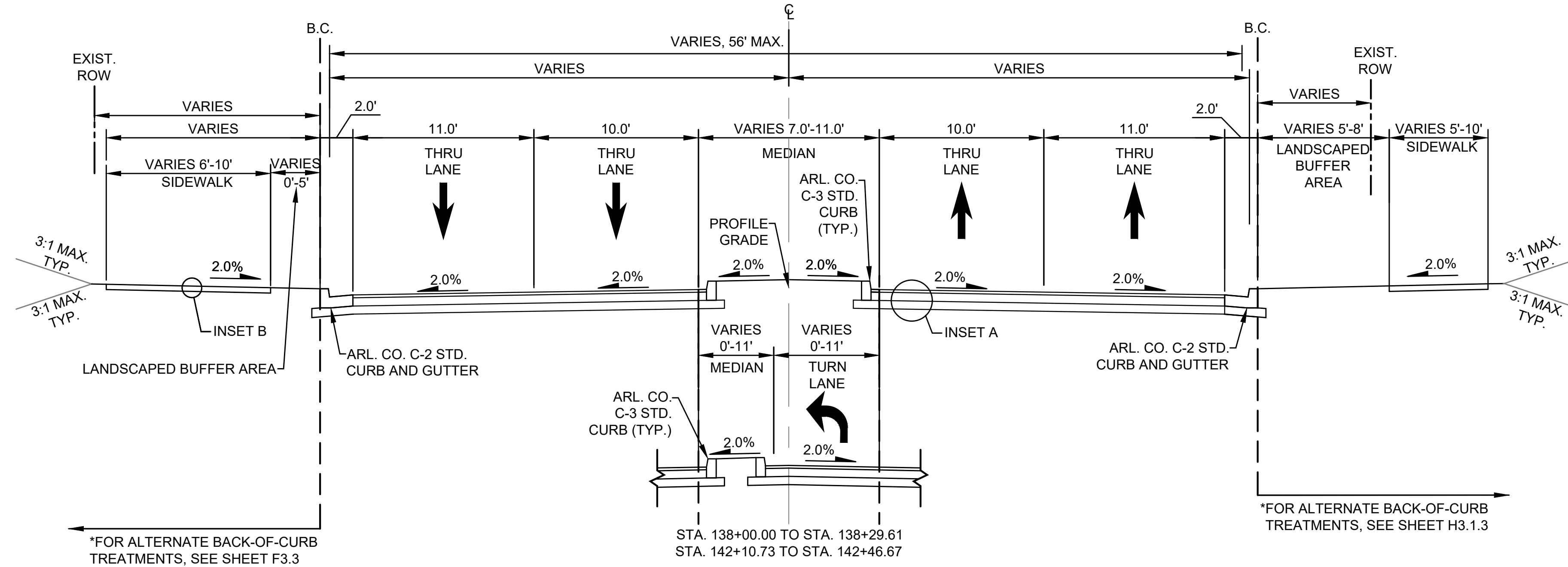
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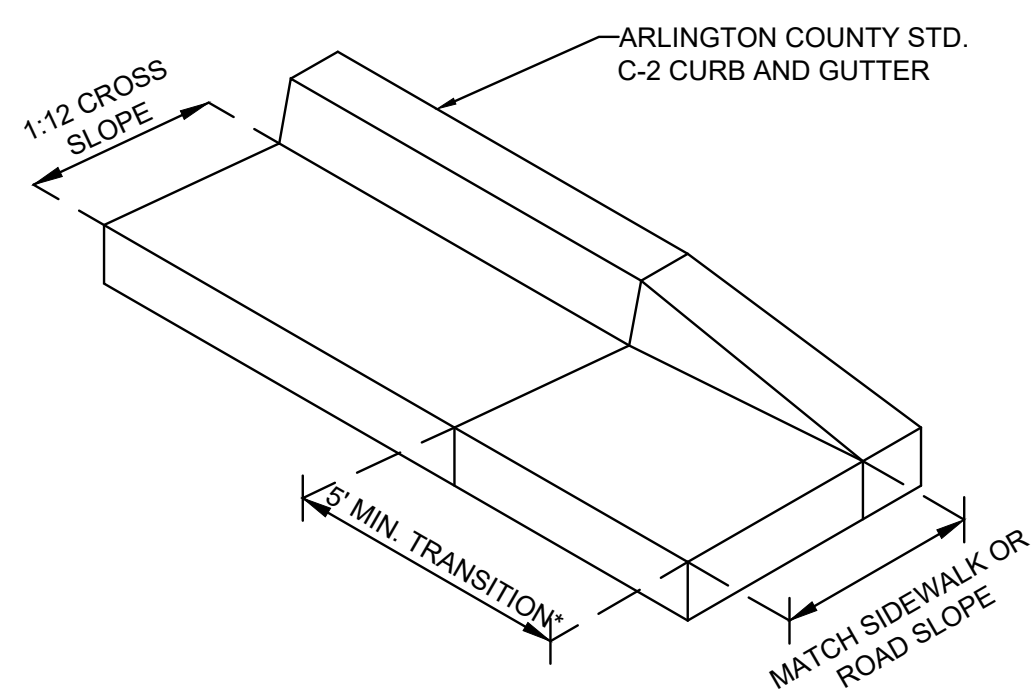




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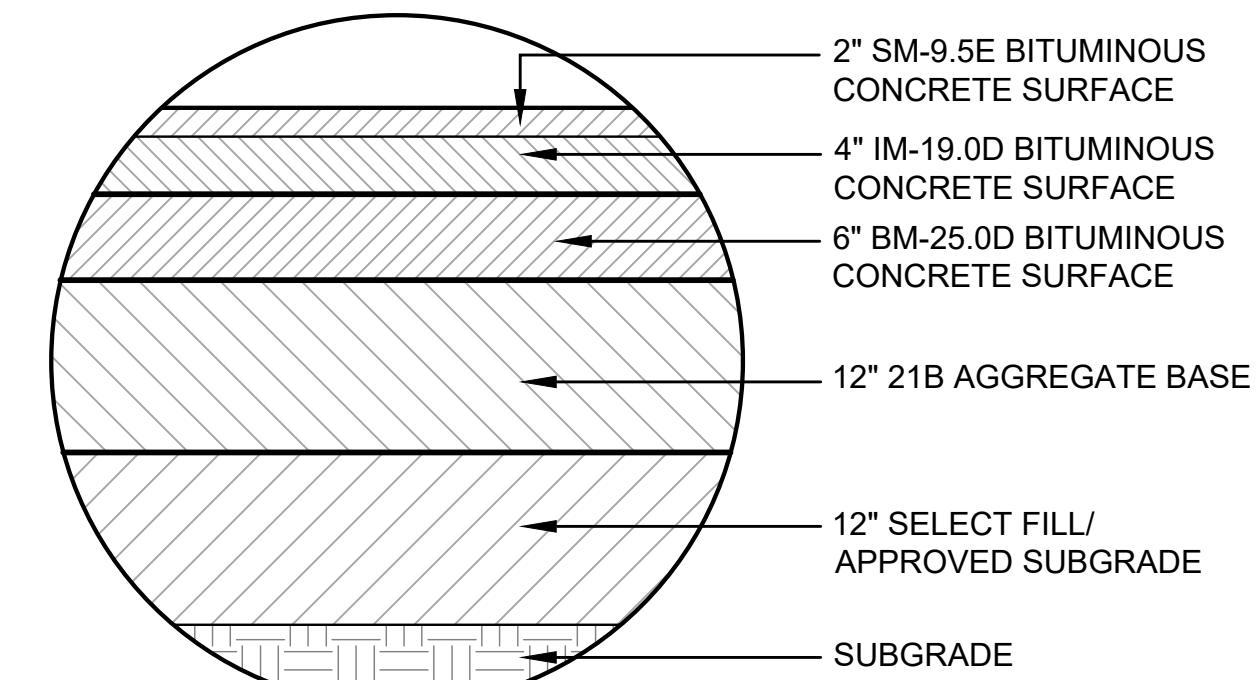


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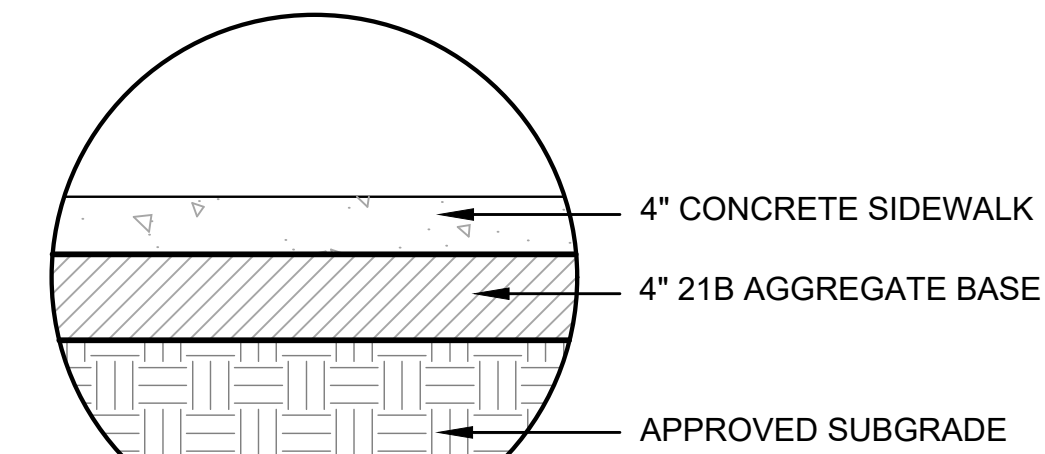


\* - TRANSITION LENGTH MAY VARY BASED ON DRIVEWAY GRADES.  
CONTRACTOR TO ENSURE POSITIVE DRAINAGE ALONG FLOW LINE

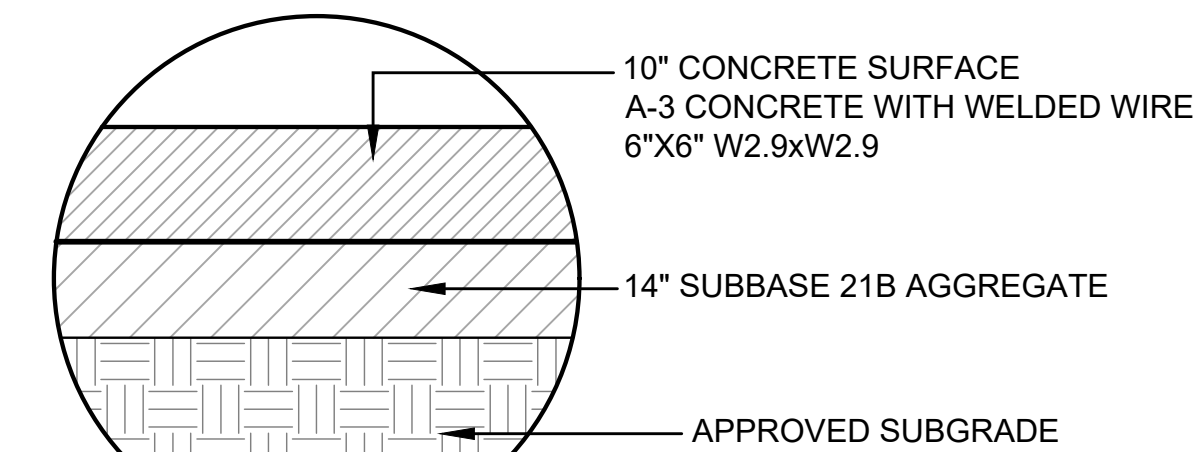
DRIVEWAY TO APRON CURB & GUTTER TRANSITION DETAIL



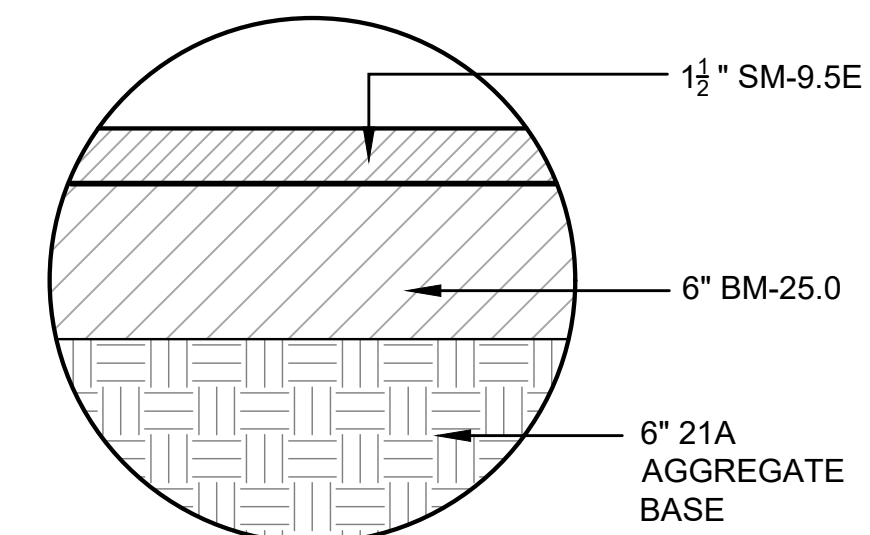
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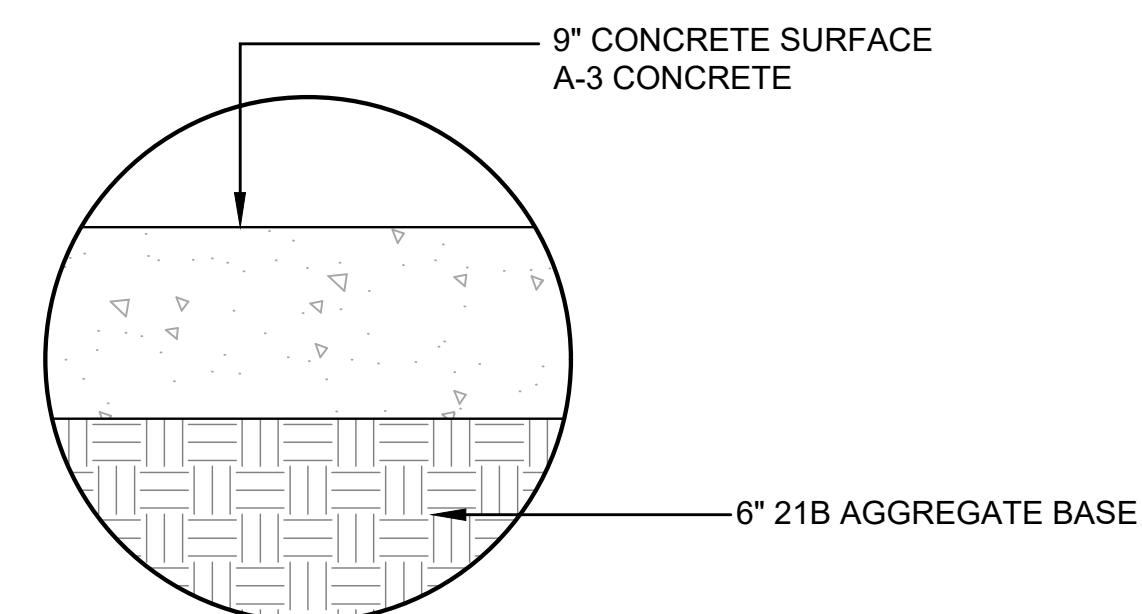
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INSET C  
BUS PAD



PAVEMENT SECTION - PRIVATE DRIVEWAY



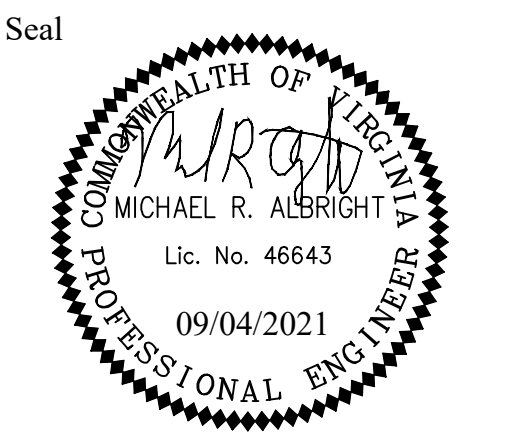
CONCRETE PAVEMENT SECTION -  
COMMERCIAL DRIVEWAY



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Approvals \_\_\_\_\_ Date \_\_\_\_\_

Design Team Engineer Supervisor \_\_\_\_\_

Construction Management Supervisor \_\_\_\_\_

Water, Sewer, Streets Bureau Chief \_\_\_\_\_

Transportation Director \_\_\_\_\_

Project Manager \_\_\_\_\_

Revisions	Date

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Drawn: TC  
Checked: MRA  
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Plotted: September 04, 2021  
Plotted by: patrick.husted

ARLINGTON COUNTY, VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL SERVICES

TYPICAL SECTIONS  
COLUMBIA PIKE - ROUTE 244  
COLUMBIA PIKE - MULTIMODAL STREET IMPROVEMENTS  
SEGMENT F

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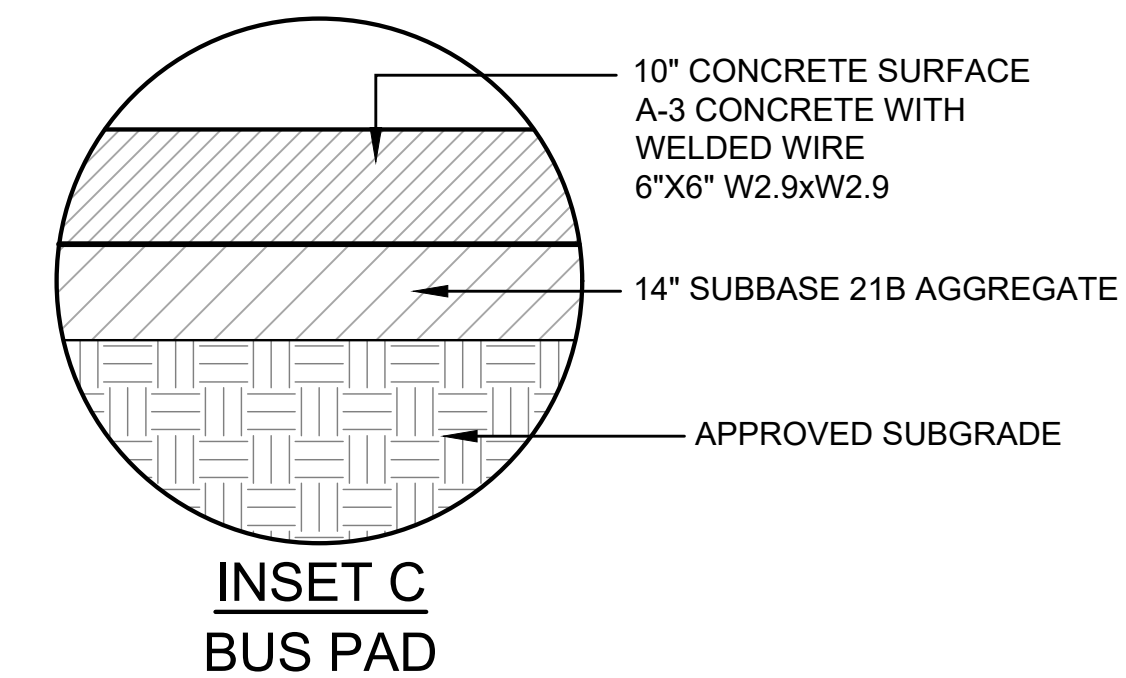
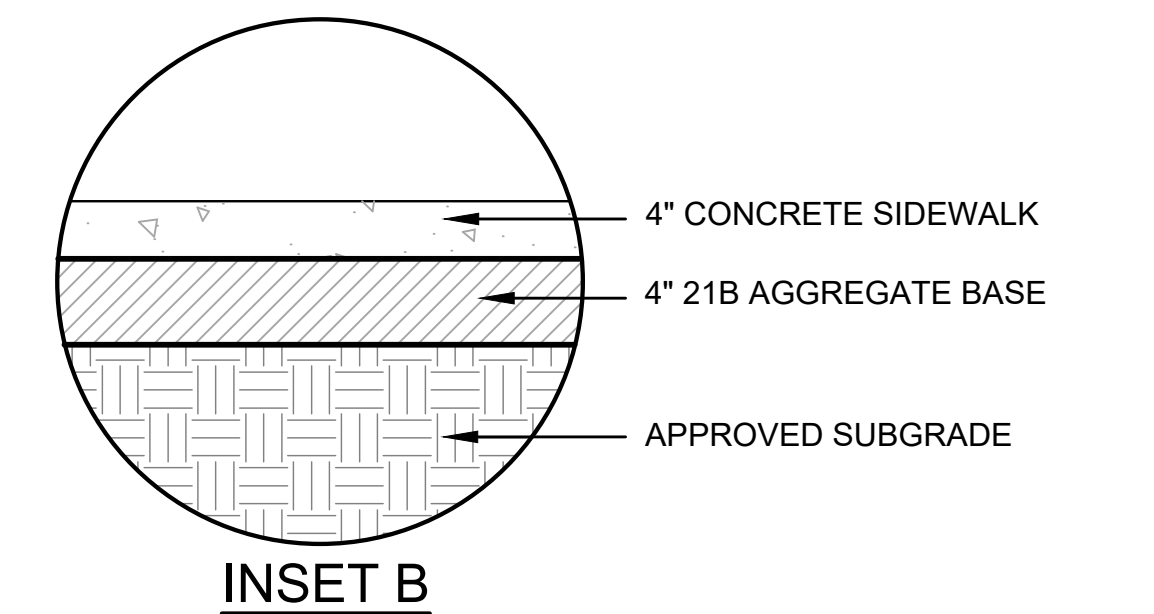
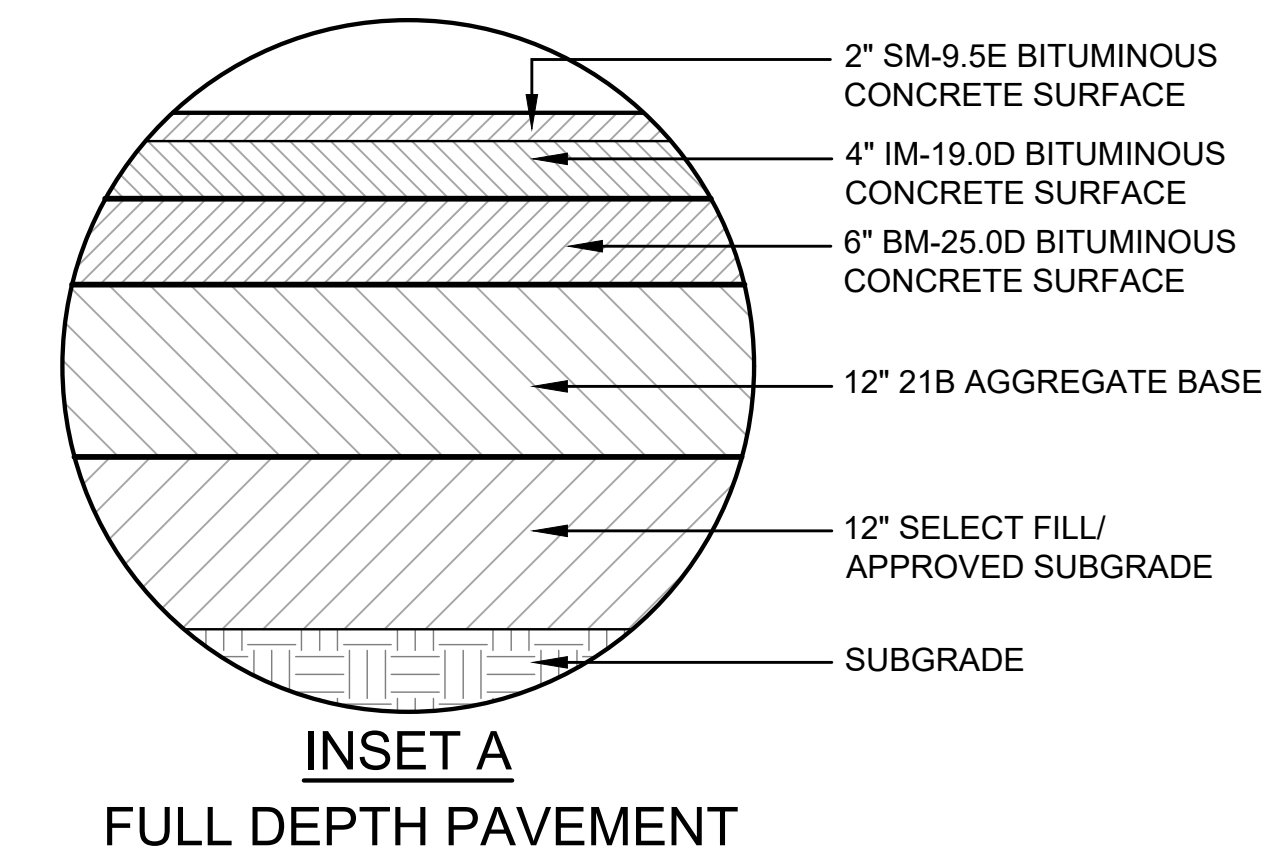


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ENVIRONMENTAL SERVICES

LUIS ARAYA  
BUREAU CHIEF, DES - DEVELOPMENT SERVICES

10/19/2021  
APPROVAL DATE





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Approvals	Date
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Design Team Engineer Supervisor

Construction Management Supervisor

Water, Sewer, Streets Bureau Chief

Transportation Director

Project Manager

Revisions \_\_\_\_\_ Date \_\_\_\_\_

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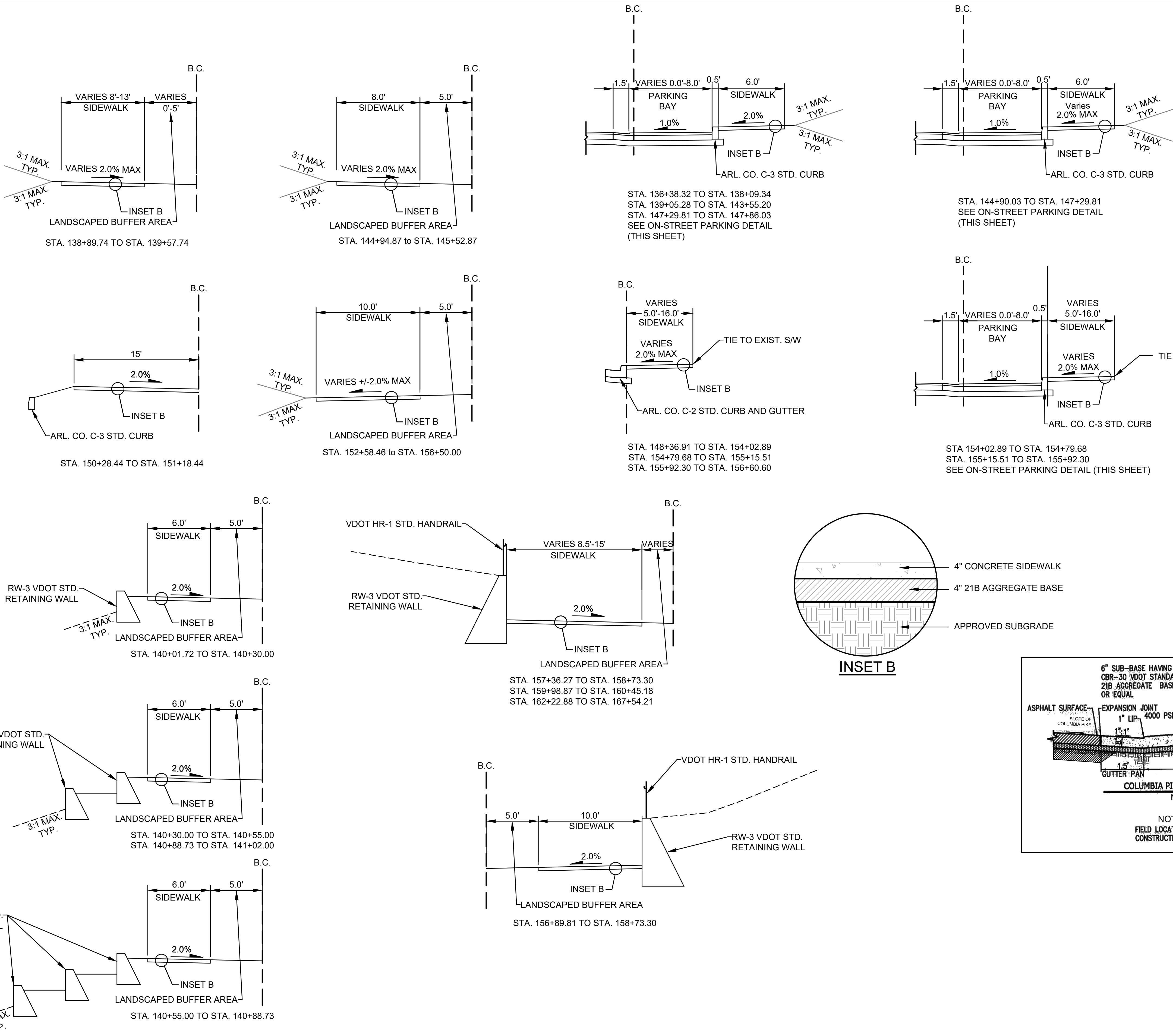
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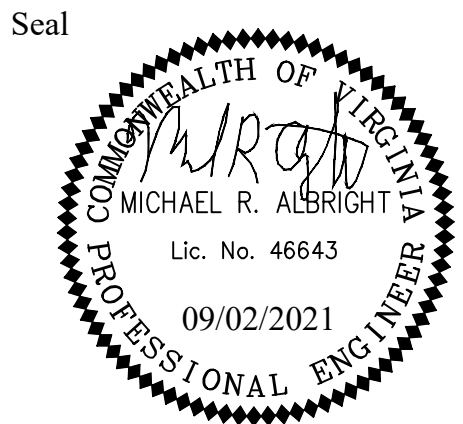




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Design Team Engineer Supervisor \_\_\_\_\_

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Water, Sewer, Streets Bureau Chief \_\_\_\_\_

Transportation Director \_\_\_\_\_

Project Manager \_\_\_\_\_

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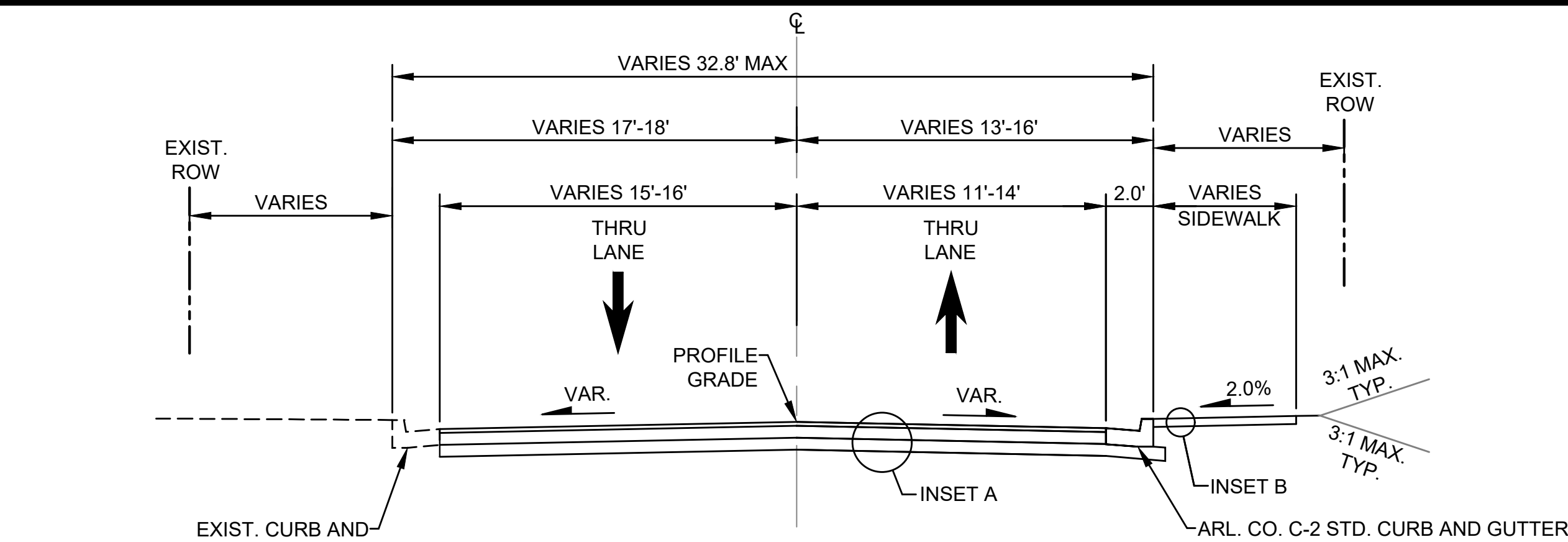
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Plotted: September 02, 2021  
Plotted by: patrick.husted

ARLINGTON COUNTY, VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL SERVICES

TYPICAL SECTIONS  
COLUMBIA PIKE - ROUTE 244  
COLUMBIA PIKE - MULTIMODAL STREET IMPROVEMENTS  
SEGMENT F

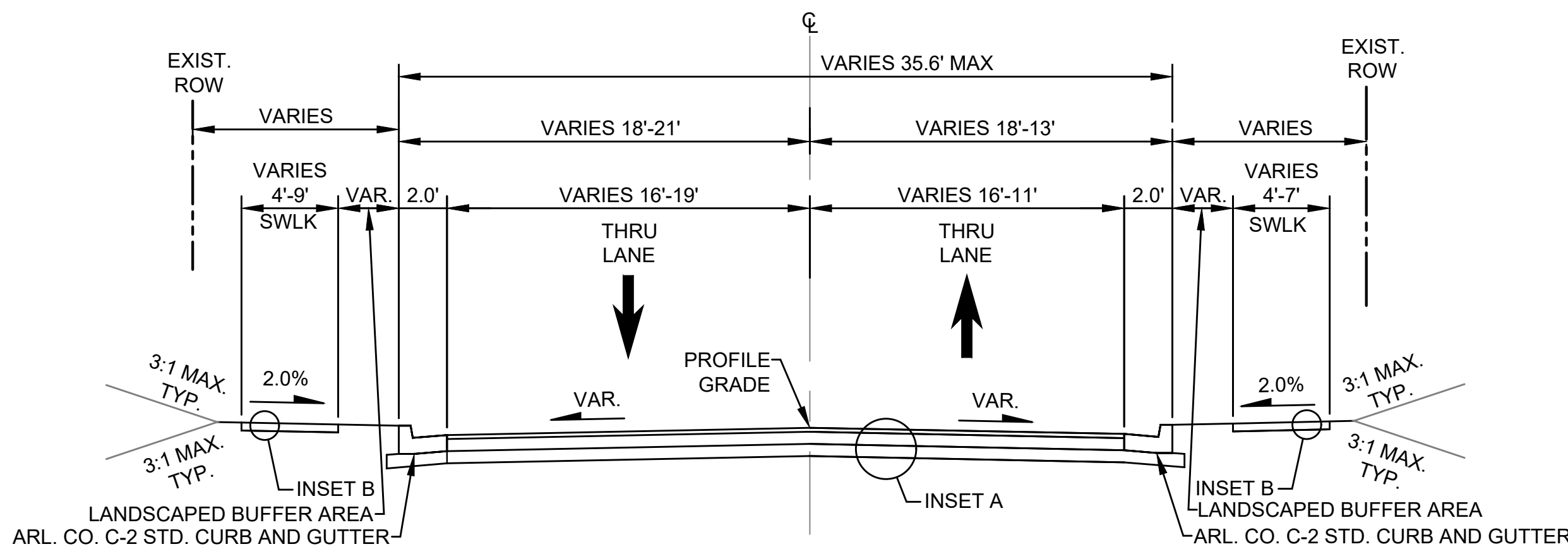
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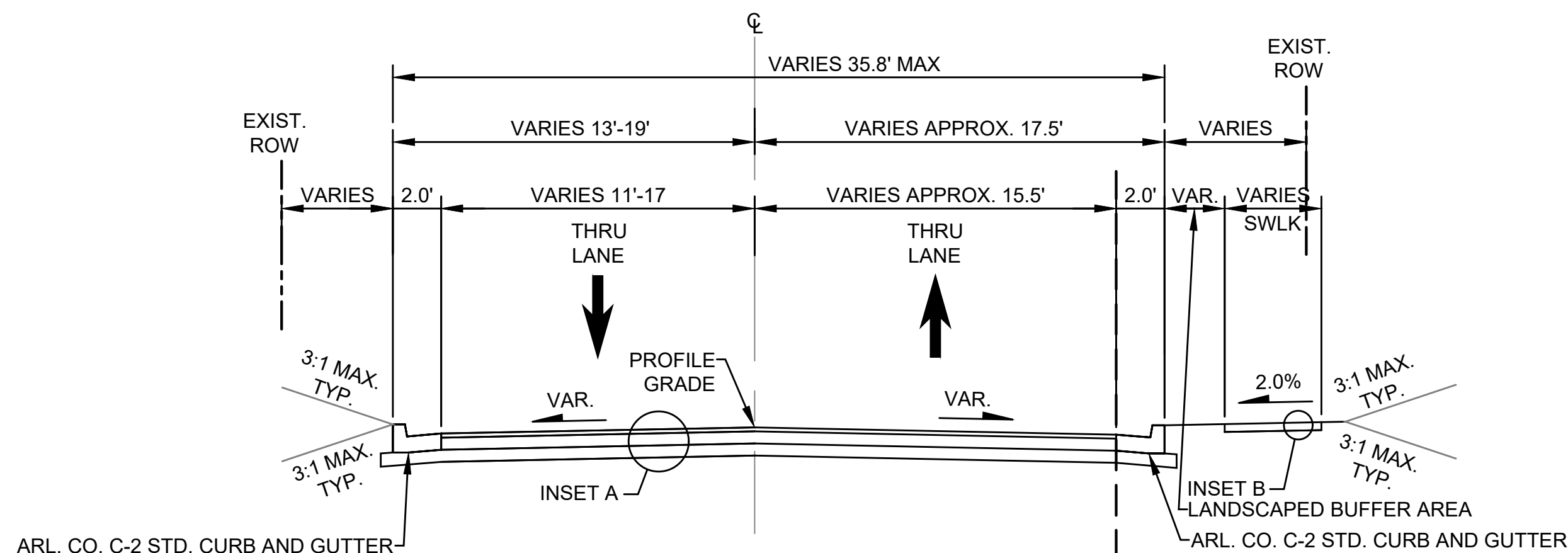
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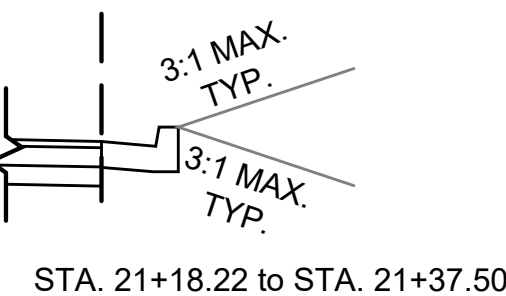
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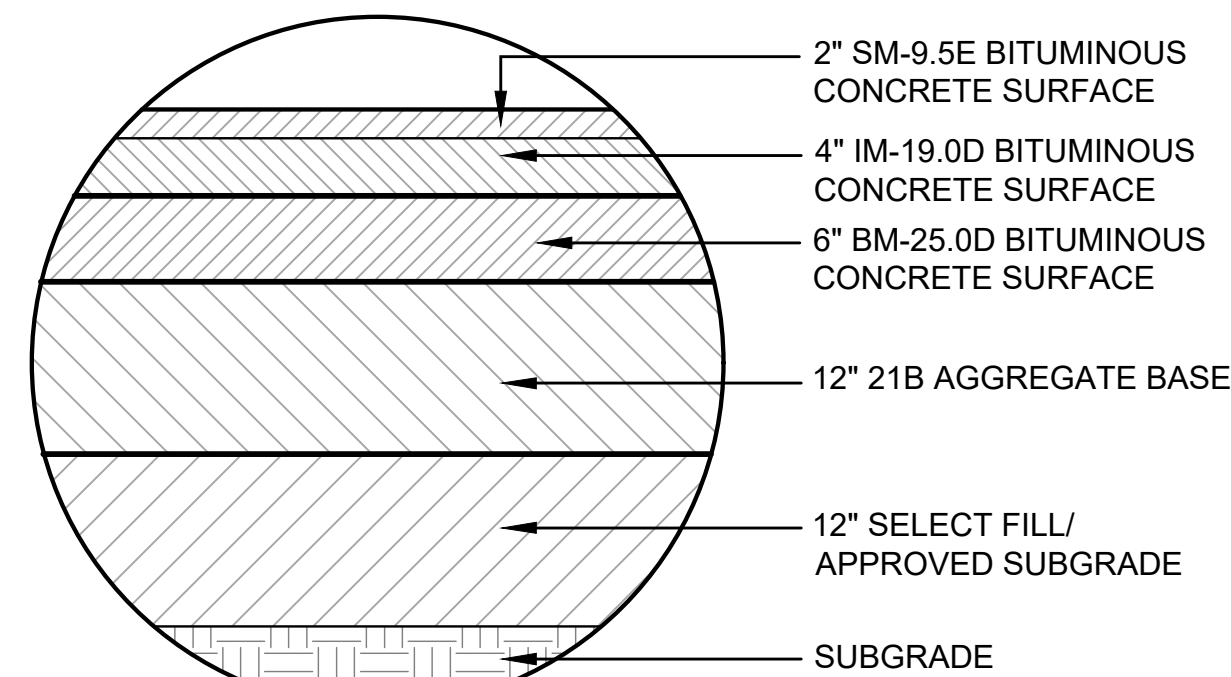


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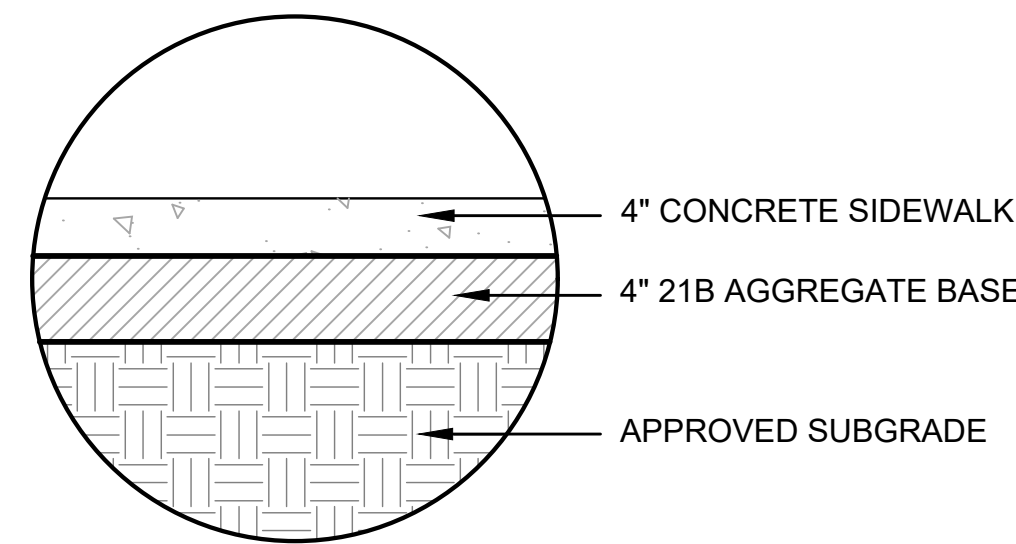
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INSET A  
FULL DEPTH PAVEMENT



INSET B

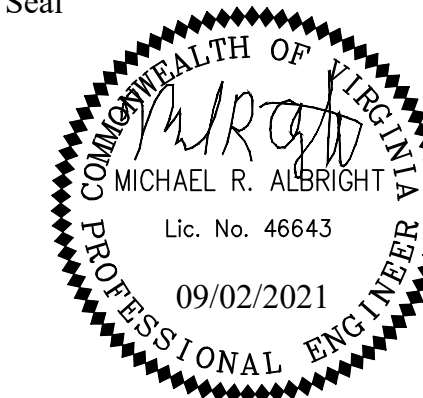


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Seal



Approvals \_\_\_\_\_ Date \_\_\_\_\_

Design Team Engineer Supervisor \_\_\_\_\_

Construction Management Supervisor \_\_\_\_\_

Water, Sewer, Streets Bureau Chief \_\_\_\_\_

Transportation Director \_\_\_\_\_

Project Manager \_\_\_\_\_

Revisions \_\_\_\_\_ Date \_\_\_\_\_

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Checked: MRA  
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Design\Plan\Sections  
Plotted: September 02, 2021  
Plotted by: patrick.husted

ARLINGTON COUNTY, VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL SERVICES

TYPICAL SECTIONS  
COLUMBIA PIKE - ROUTE 244  
COLUMBIA PIKE - MULTIMODAL STREET IMPROVEMENTS  
SEGMENT F

SCALE: HOR. N/A VERT. N/A SHEET: F3.4 of F3.7



DEPARTMENT OF  
ENVIRONMENTAL SERVICES

10/19/2021  
APPROVAL DATE

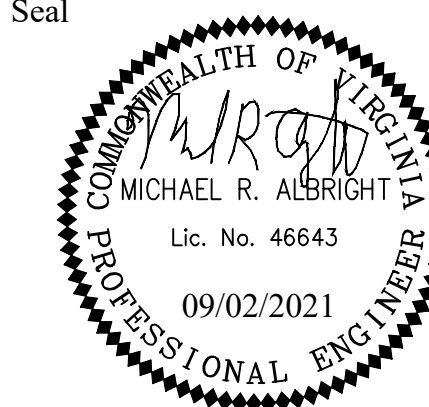




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Seal



<b>Approvals</b>	<b>Date</b>

Design Team Engineer Supervisor

---

Construction Management Supervisor

Water, Sewer, Streets Bureau Chief

Transportation Director

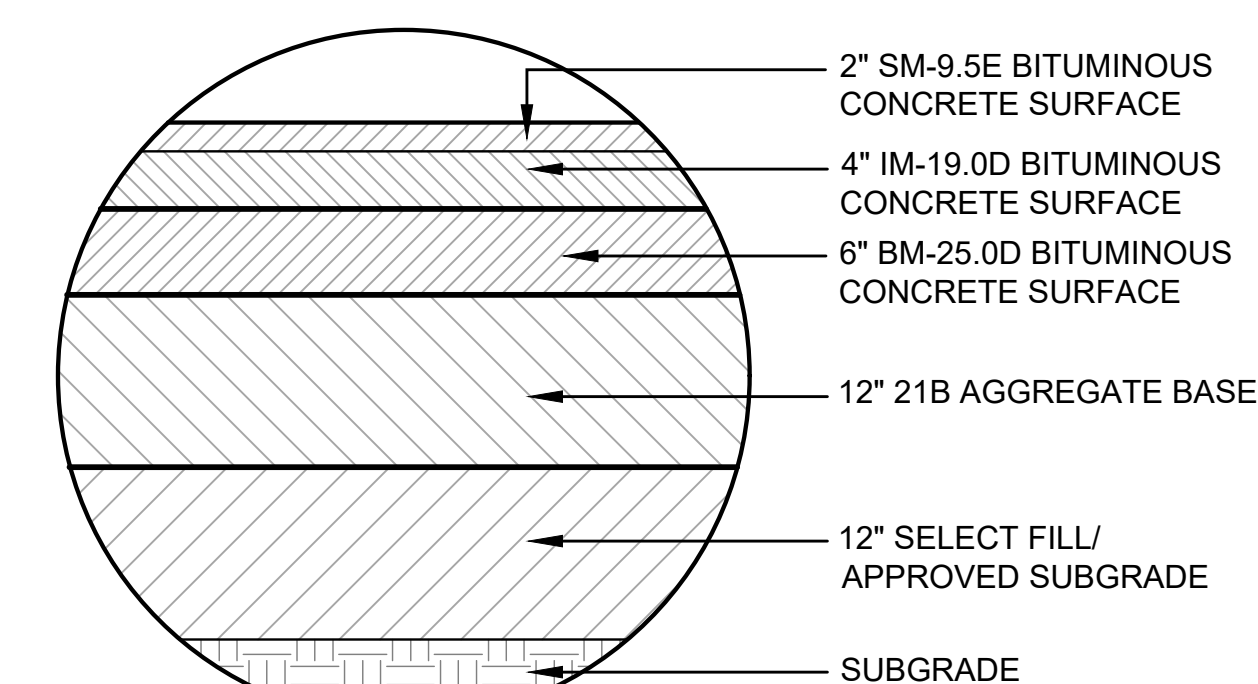
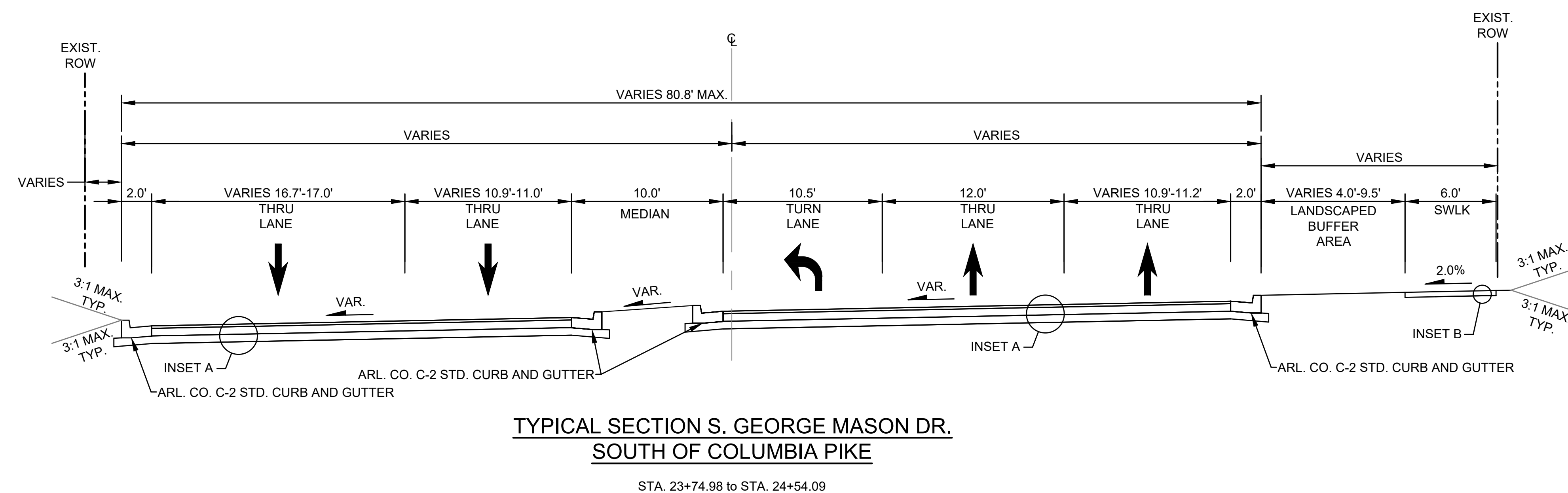
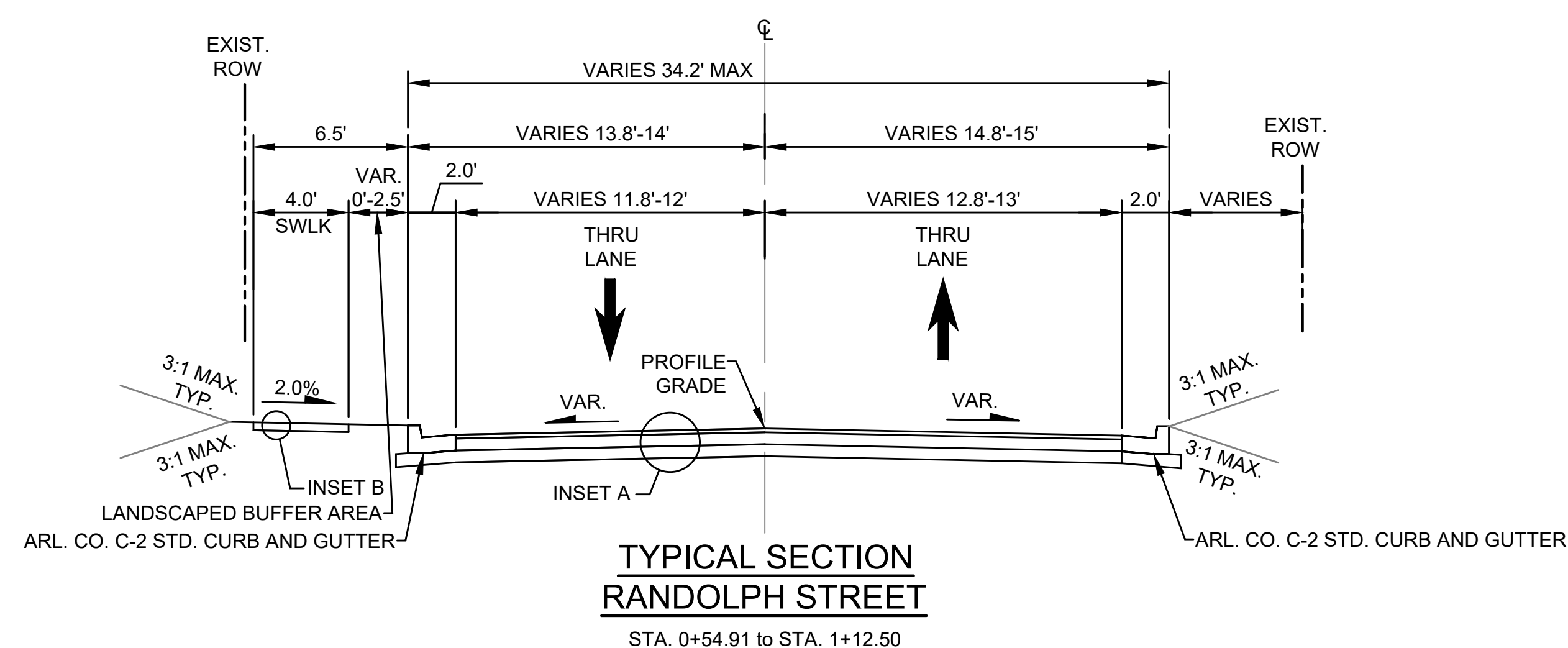
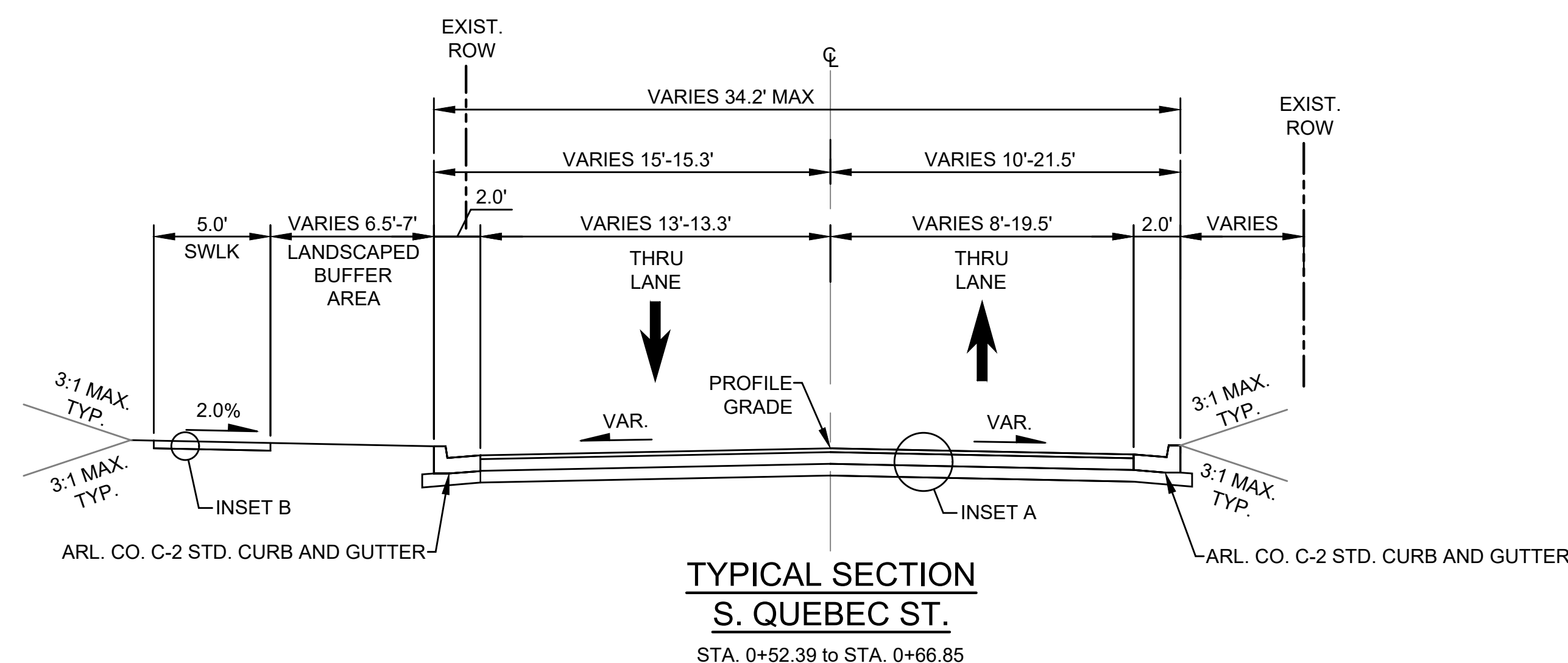
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Project Manager

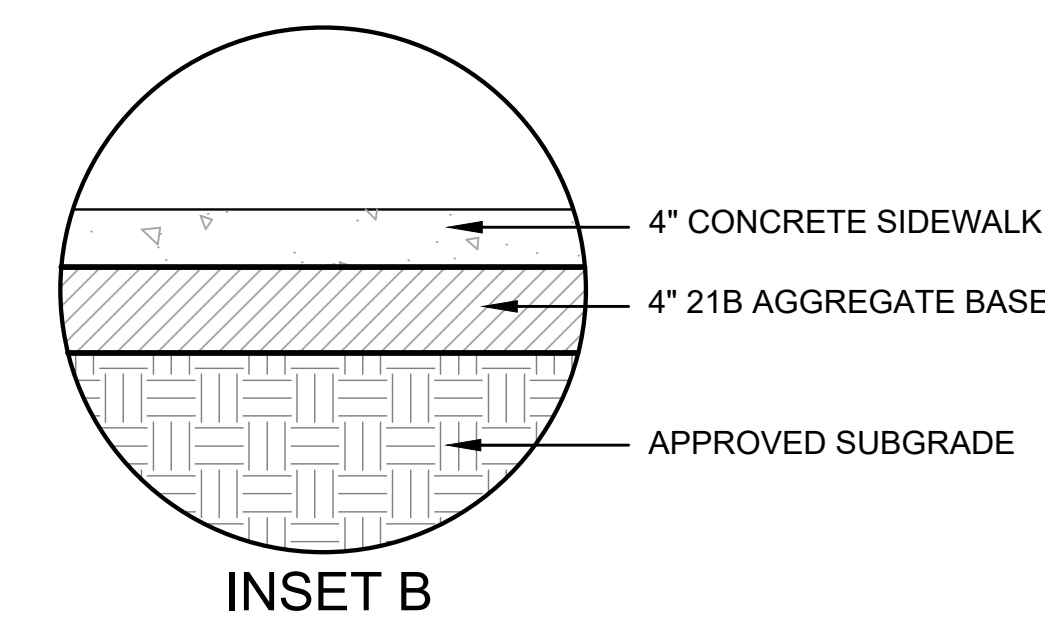
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 Plotted: September 02, 2021  
 Plotted by: patrick.husted



INSET A  
FULL DEPTH PAVEMENT



INSET B

ARLINGTON COUNTY, VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL SERVICES

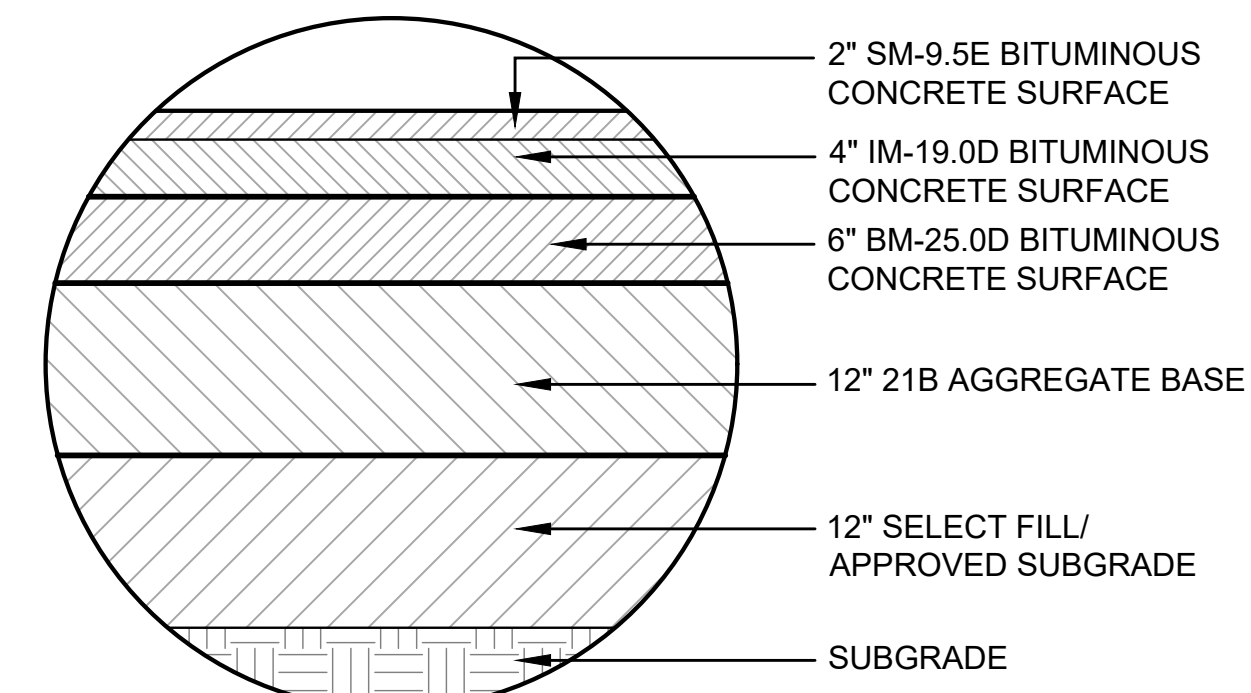
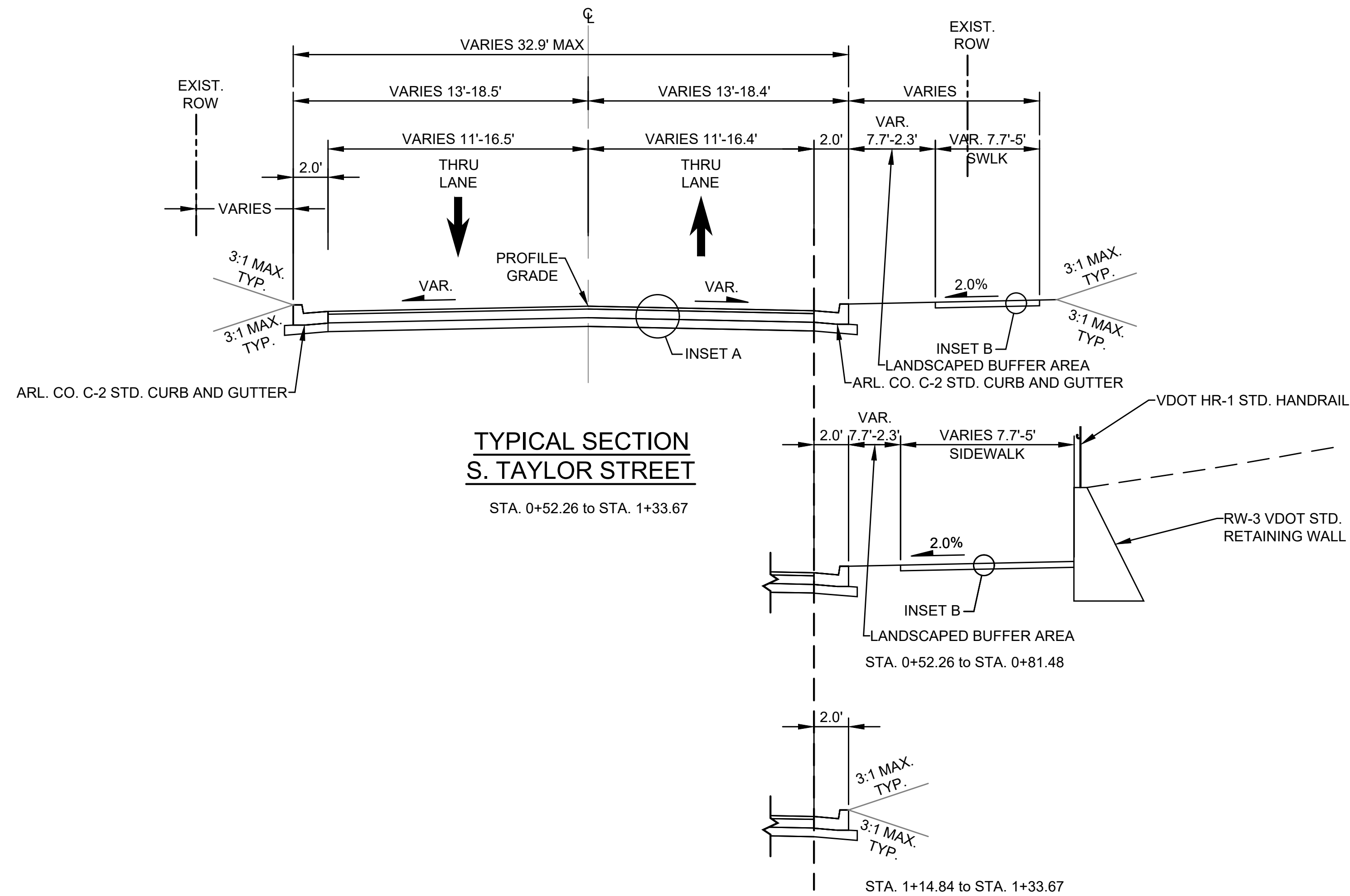
TYPICAL SECTIONS  
COLUMBIA PIKE - ROUTE 244  
COLUMBIA PIKE - MULTIMODAL STREET IMPROVEMENTS  
SEGMENT F

SCALE:	HOB. N/A VERT. N/A	SHEET:	F3.5 of F3.7
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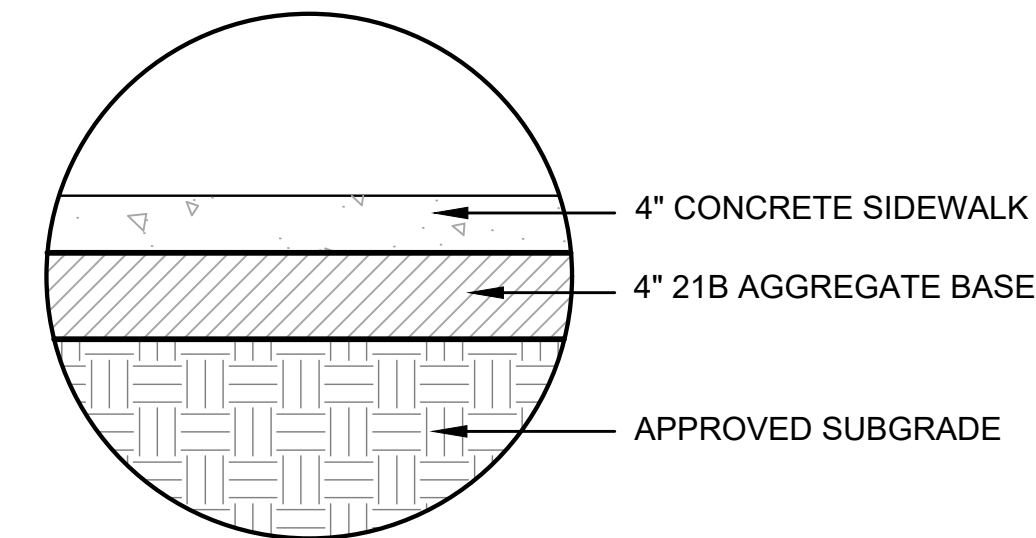
DEPARTMENT OF  
ENVIRONMENTAL SERVICES

10/19/2021  
APPROVAL DATE





INSET A  
FULL DEPTH PAVEMENT



INSET B

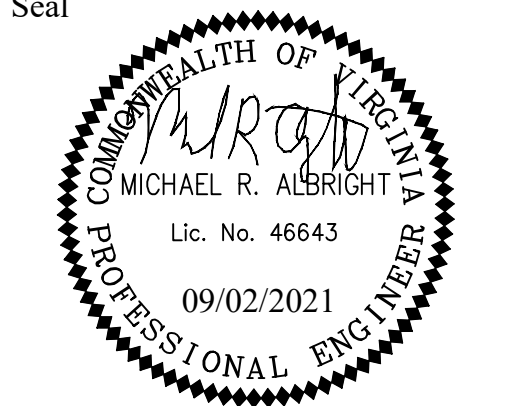


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Facilities & Engineering Division  
Engineering Bureau  
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Seal



Approvals \_\_\_\_\_ Date \_\_\_\_\_

Design Team Engineer Supervisor \_\_\_\_\_

Construction Management Supervisor \_\_\_\_\_

Water, Sewer, Streets Bureau Chief \_\_\_\_\_

Transportation Director \_\_\_\_\_

Project Manager \_\_\_\_\_

Revisions \_\_\_\_\_ Date \_\_\_\_\_

Designed: EJD  
Drawn: TC  
Checked: MRA  
Miss Utility Transmittal #: \_\_\_\_\_

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Design\Final\Drawings of Columbia Pike Segment\Segment F\3.6 of F3.7  
Plotted: September 02, 2021  
Plotted by: patrick.husted

ARLINGTON COUNTY, VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL SERVICES

TYPICAL SECTIONS  
COLUMBIA PIKE - ROUTE 244  
COLUMBIA PIKE - MULTIMODAL STREET IMPROVEMENTS  
SEGMENT F

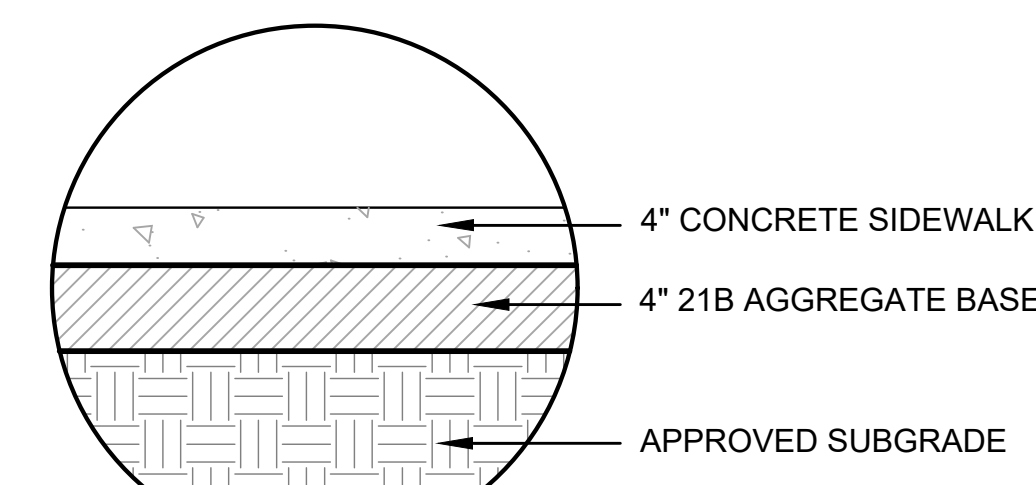
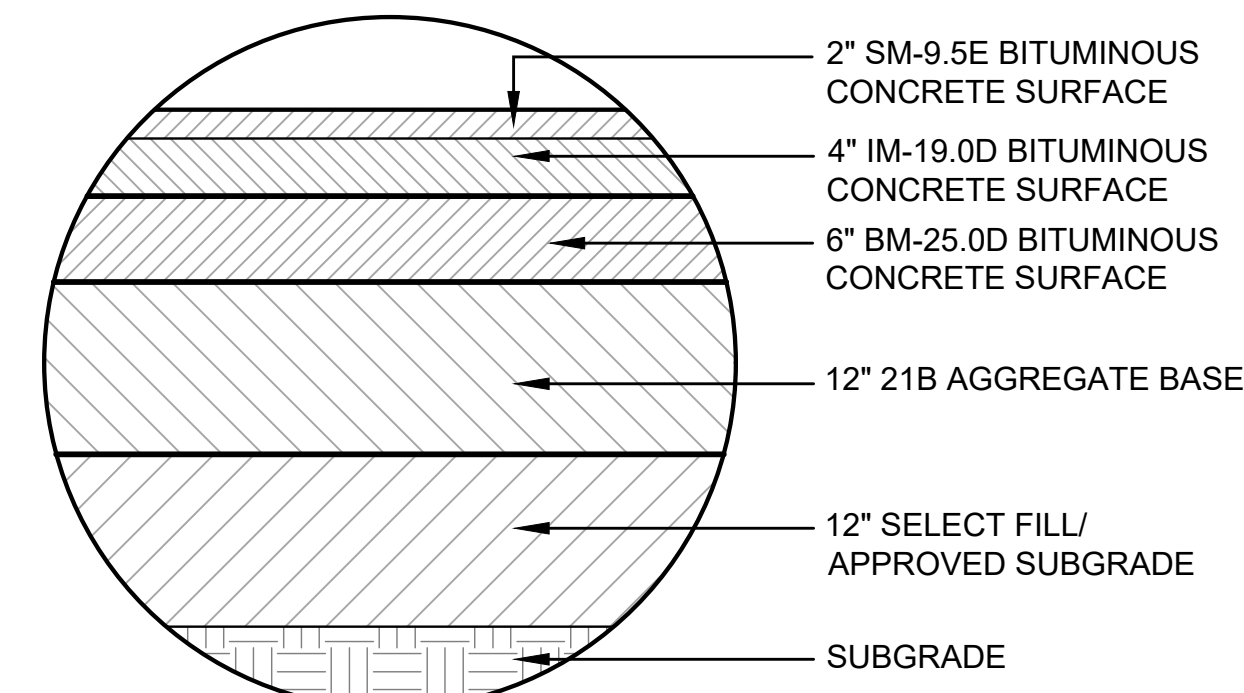
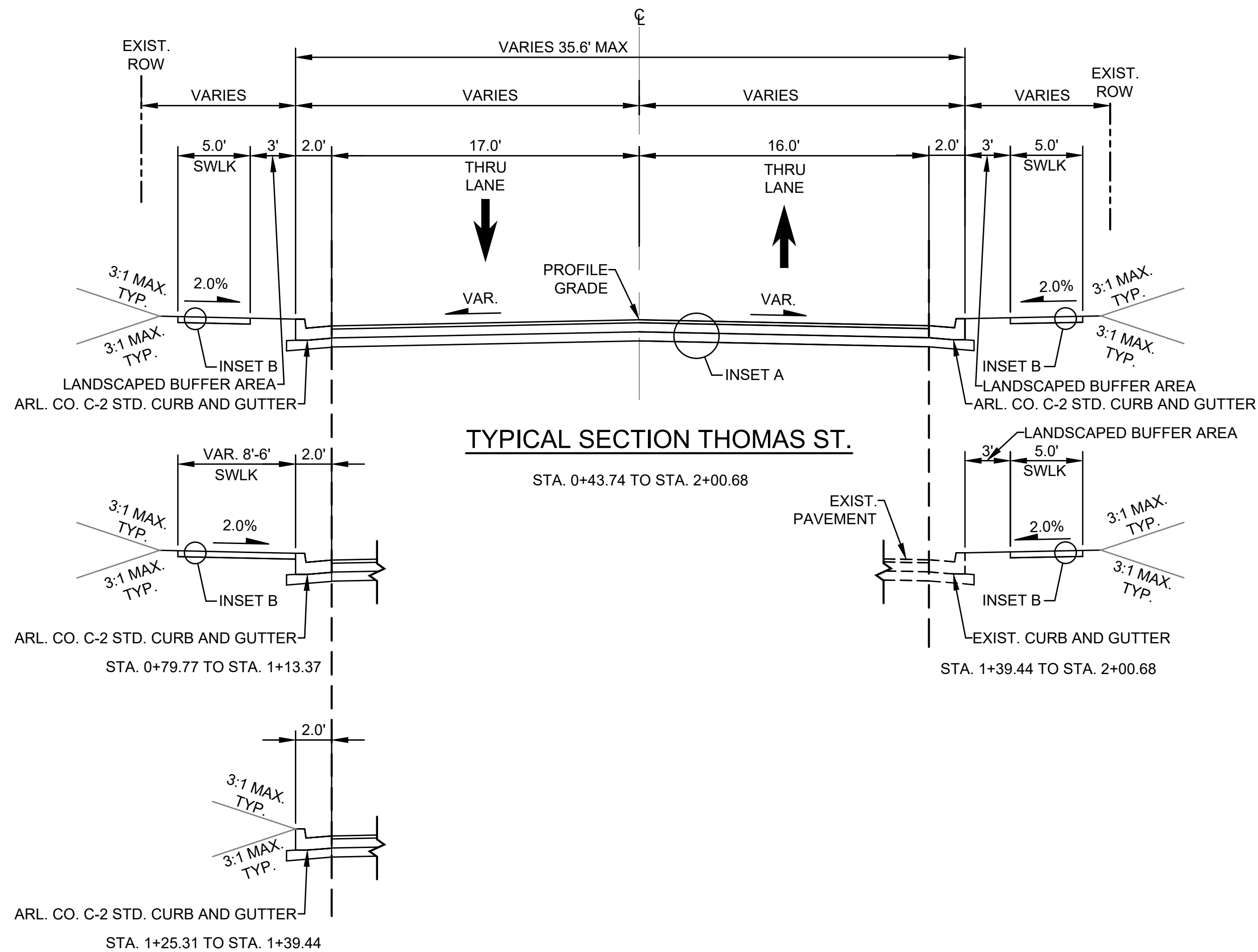
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DEPARTMENT OF  
ENVIRONMENTAL SERVICES

10/19/2021  
APPROVAL DATE

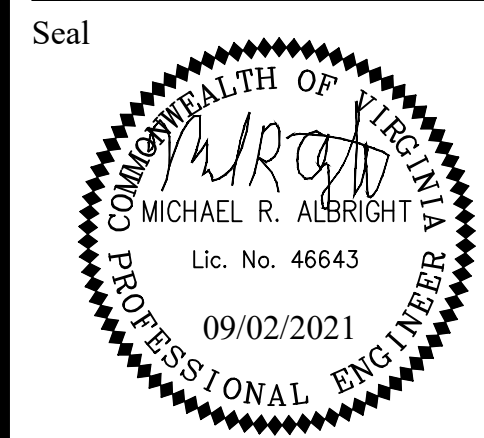




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Approvals \_\_\_\_\_ Date \_\_\_\_\_

Design Team Engineer Supervisor \_\_\_\_\_

Construction Management Supervisor \_\_\_\_\_

Water, Sewer, Streets Bureau Chief \_\_\_\_\_

Transportation Director \_\_\_\_\_

Project Manager \_\_\_\_\_

Revisions	Date

Designed: EJD  
Drawn: TC  
Checked: MRA  
Miss Utility Transmittal #:

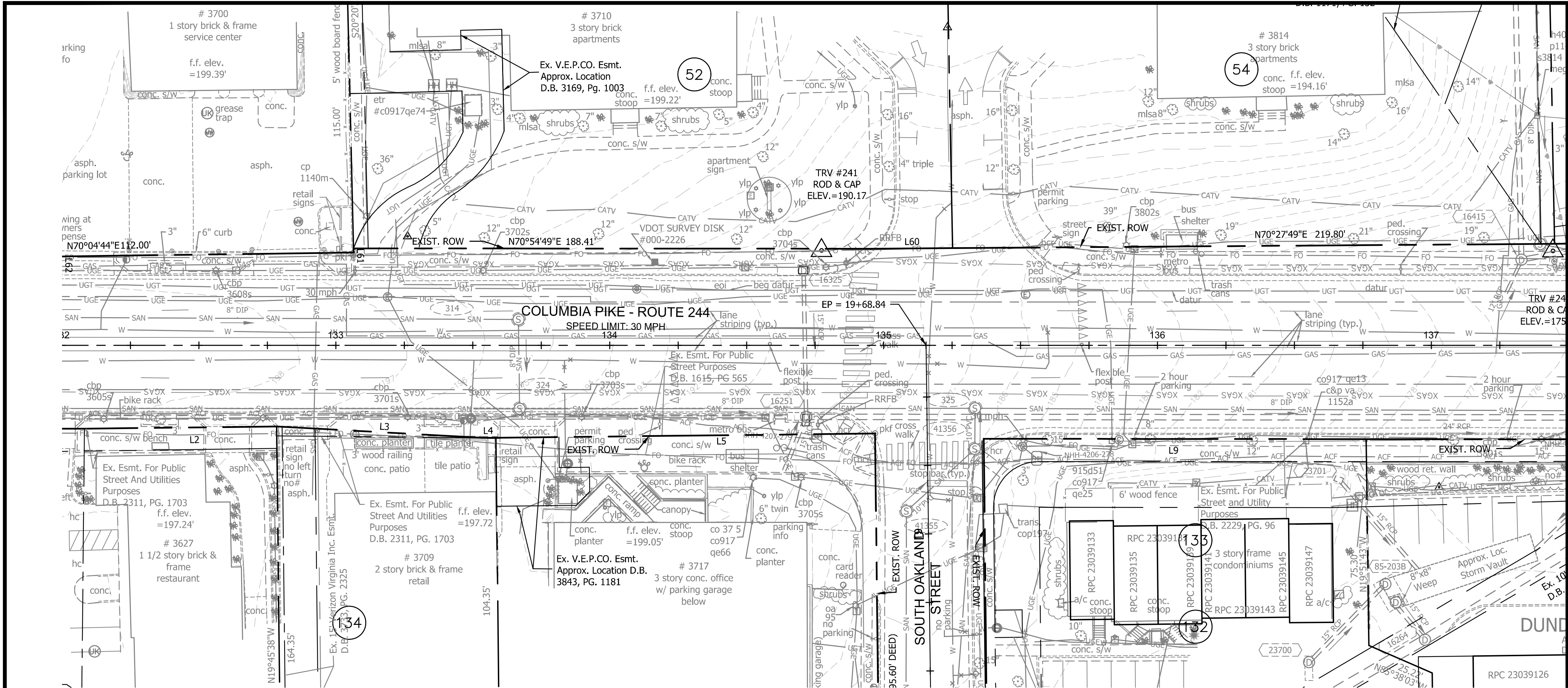
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Plotted: September 02, 2021  
Plotted by: patrick.husted

ARLINGTON COUNTY, VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL SERVICES

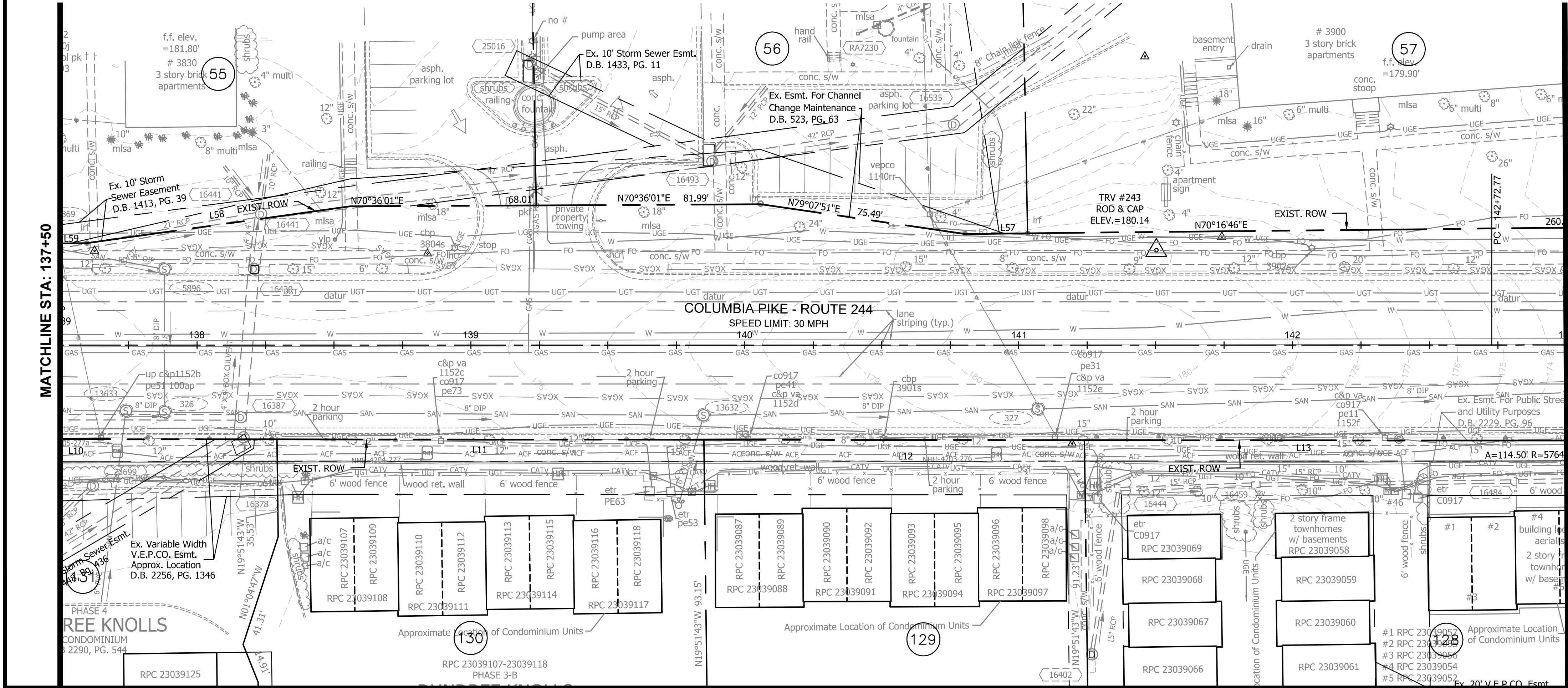
TYPICAL SECTIONS  
COLUMBIA PIKE - ROUTE 244  
COLUMBIA PIKE - MULTIMODAL STREET IMPROVEMENTS  
SEGMENT F

SCALE: HOR. N/A VERT. N/A SHEET: F3.7 of F3.7

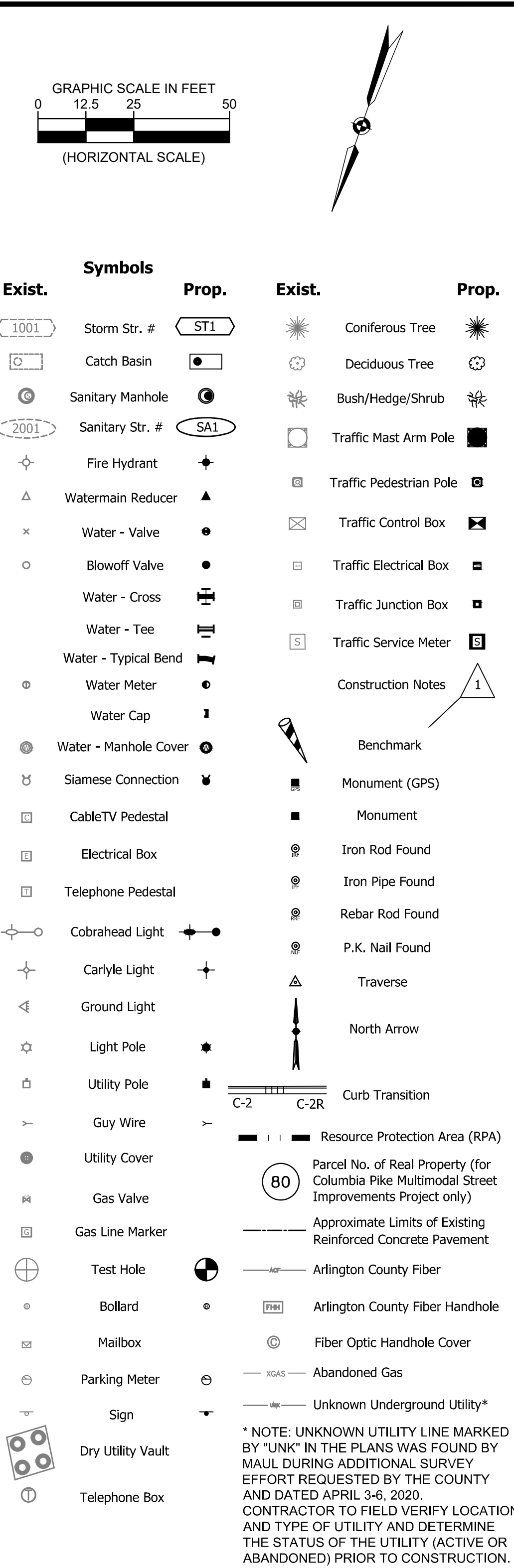




MATCHLINE STA: 137+50



MATCHLINE STA: 143+50 - SEE SHEET F5.2



**ARLINGTON VIRGINIA**

DEPARTMENT OF ENVIRONMENTAL SERVICES

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Seal  
MICHAEL R. ALBRIGHT  
Lic. No. 46643  
09/02/2021  
PROFESSIONAL ENGINEER

Approvals \_\_\_\_\_ Date \_\_\_\_\_

Design Team Engineer Supervisor \_\_\_\_\_

Construction Management Supervisor \_\_\_\_\_

Water, Sewer, Streets Bureau Chief \_\_\_\_\_

Transportation Director \_\_\_\_\_

Project Manager \_\_\_\_\_

Revisions \_\_\_\_\_ Date \_\_\_\_\_

Designed: JGJ  
Drawn: JGJ  
Checked: MRA  
Miss Utility Transmittal #:

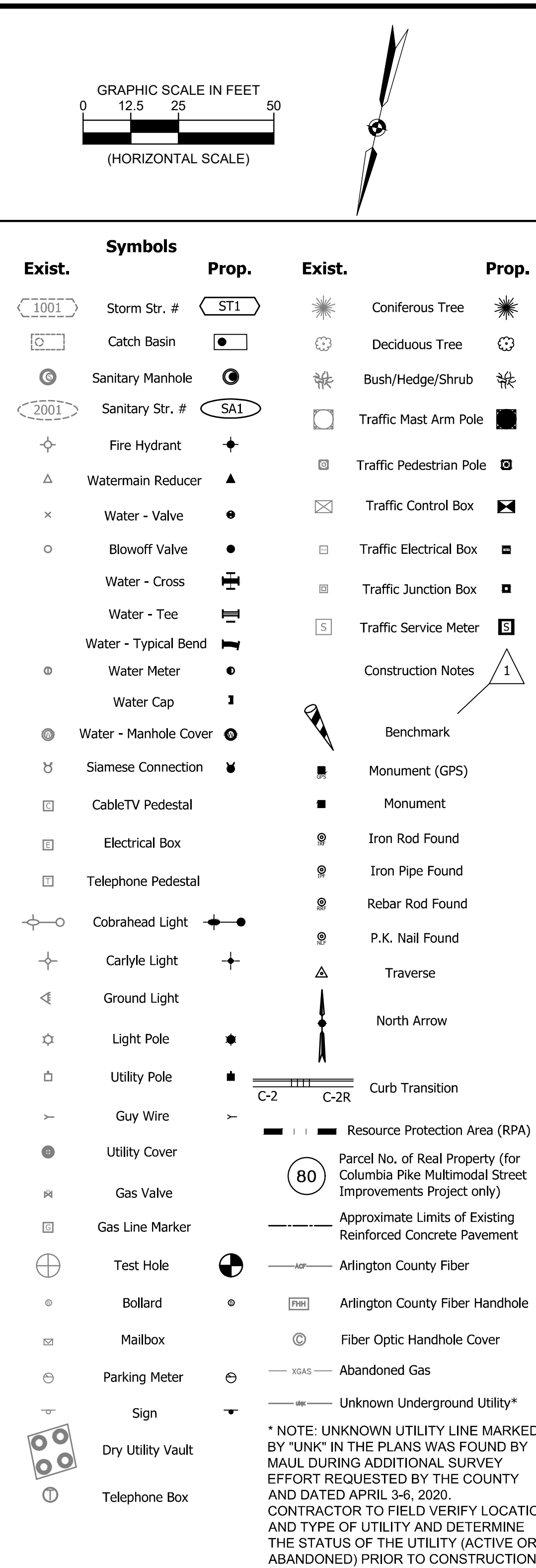
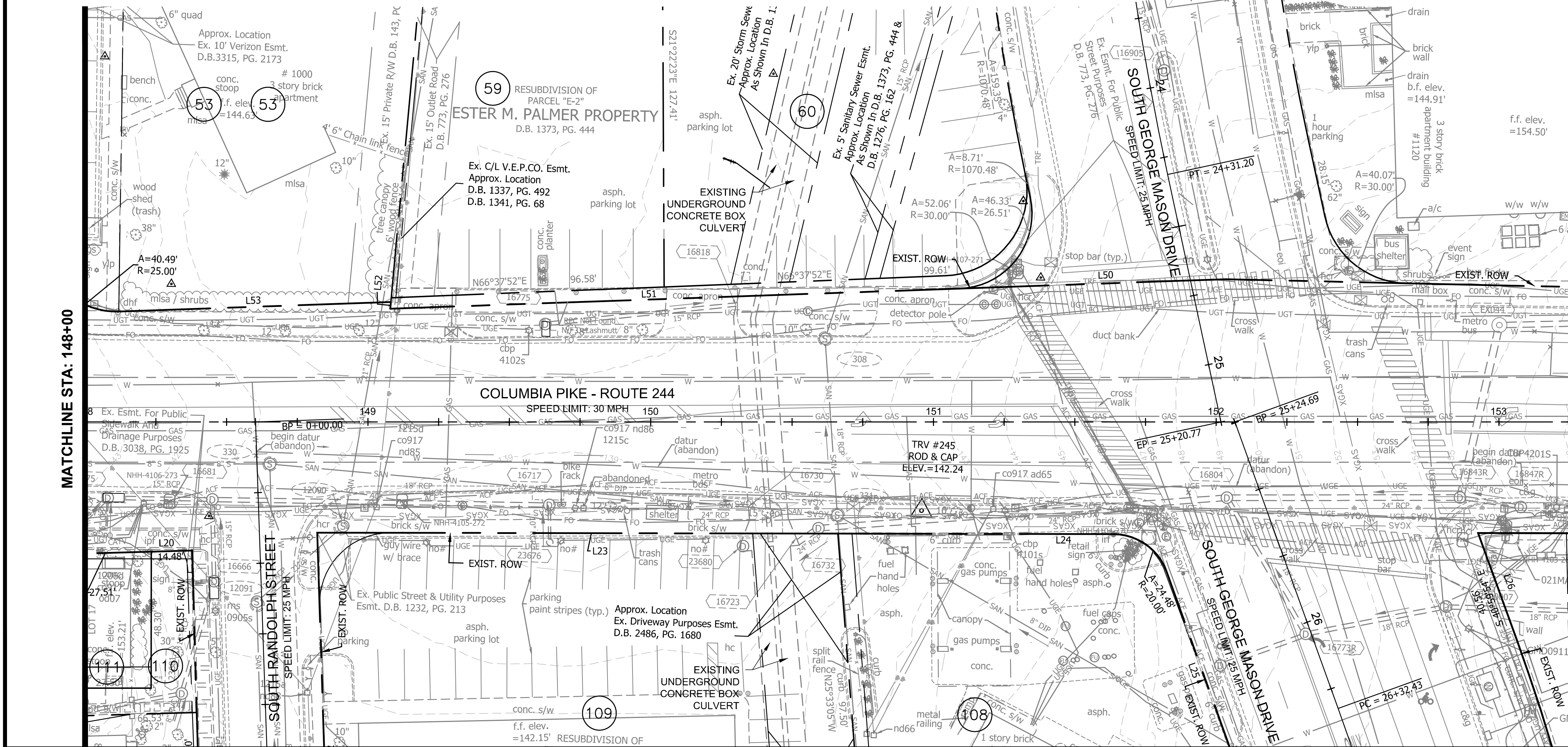
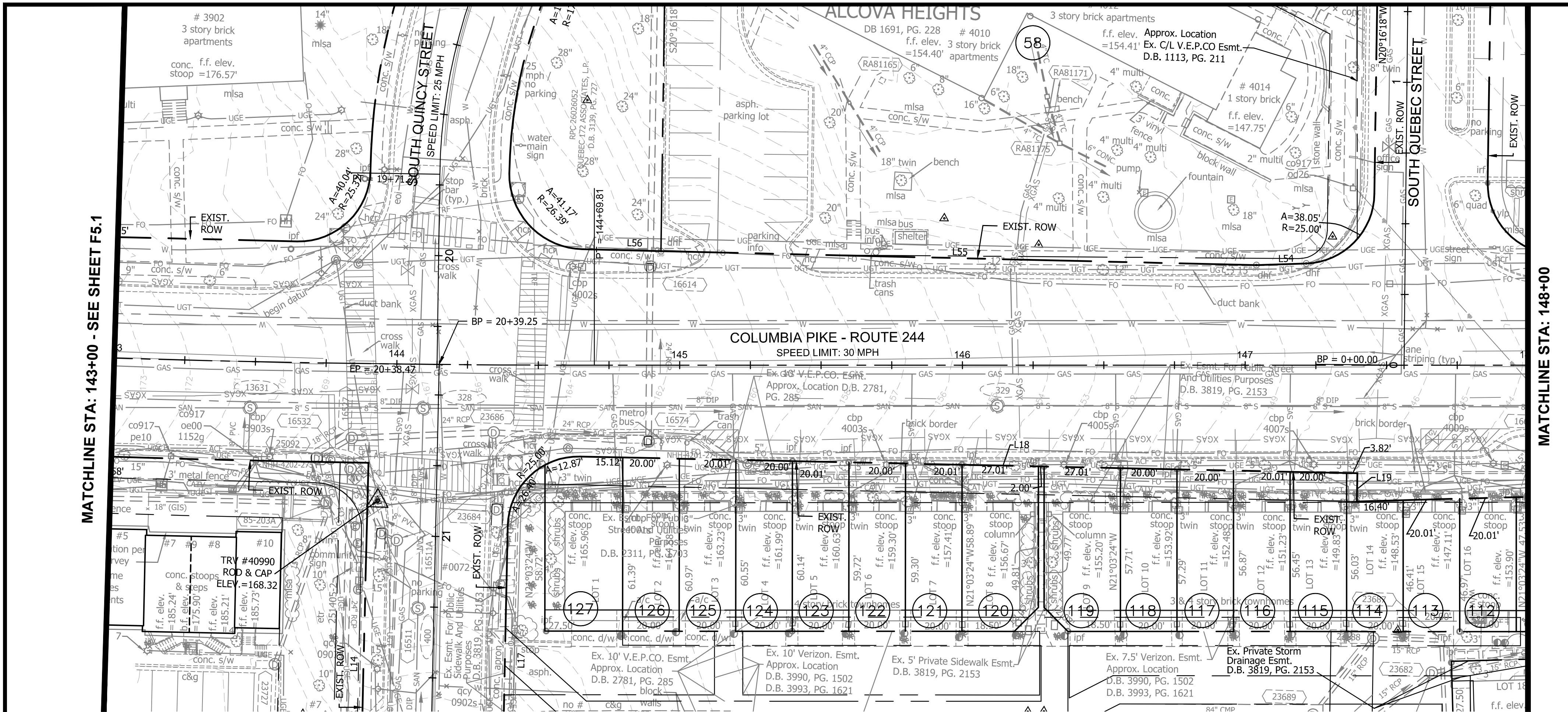
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Path: C:\Users\jgja\OneDrive\Documents\Projects\010073-F-EXC401.dwg  
Plotted: September 02, 2021  
Plotted by: patrick.husted

ARLINGTON COUNTY, VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL SERVICES

EXISTING CONDITIONS  
COLUMBIA PIKE - ROUTE 244  
COLUMBIA PIKE - MULTIMODAL STREET IMPROVEMENTS  
SEGMENT F  
STA. 132+00 TO STA. 143+00

SCALE: HOR. 1" = 25' VERT. N/A SHEET: F5.1 of F5.4





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09/02/2021  
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Approvals \_\_\_\_\_ Date \_\_\_\_\_

Design Team Engineer Supervisor \_\_\_\_\_

Construction Management Supervisor \_\_\_\_\_

Water, Sewer, Streets Bureau Chief \_\_\_\_\_

Transportation Director \_\_\_\_\_

Project Manager \_\_\_\_\_

Revisions \_\_\_\_\_ Date \_\_\_\_\_

Designed: JGJ  
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Filename: 010073-F-EXC401.dwg  
Path: C:\Users\jgja\OneDrive\Documents\010073-F-EXC401.dwg  
Plotted: September 02, 2021  
Plotted by: patrick.husted