



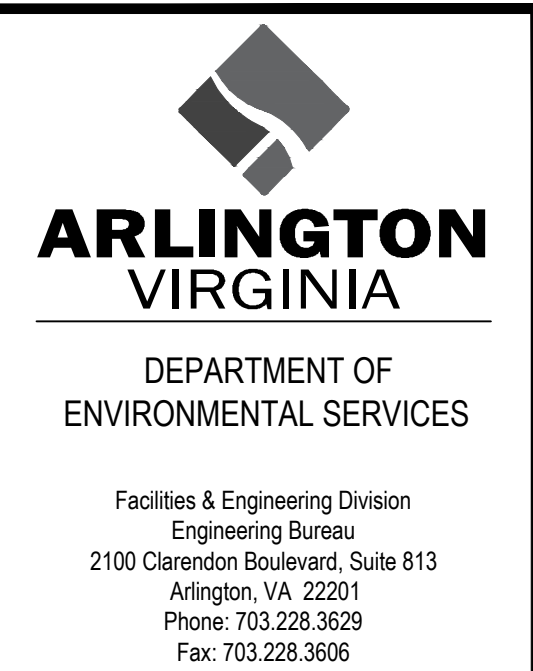
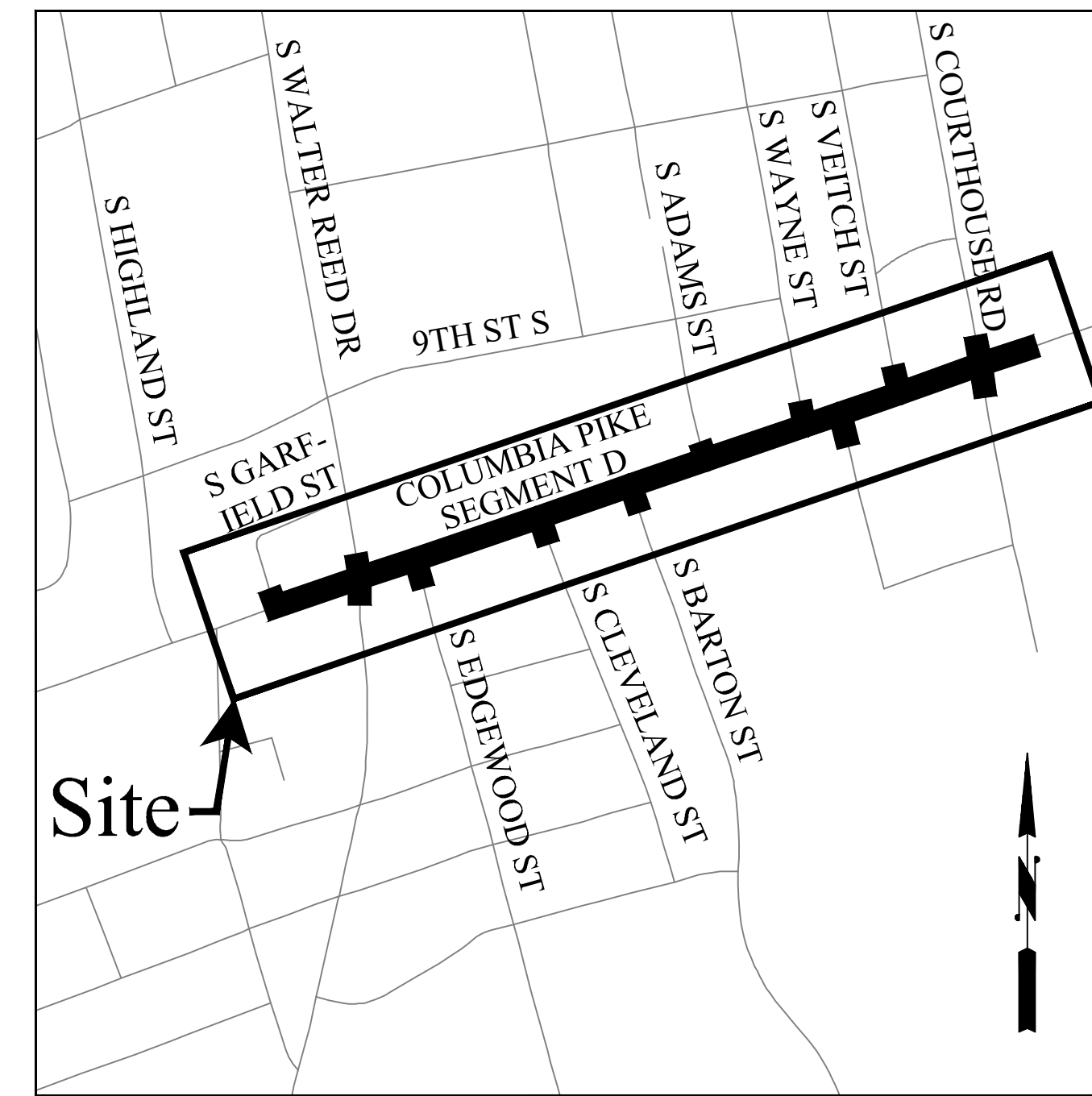
ENGINEER
DEPARTMENT OF
ENVIRONMENTAL SERVICES

Facilities and Engineering Division
Engineering Bureau
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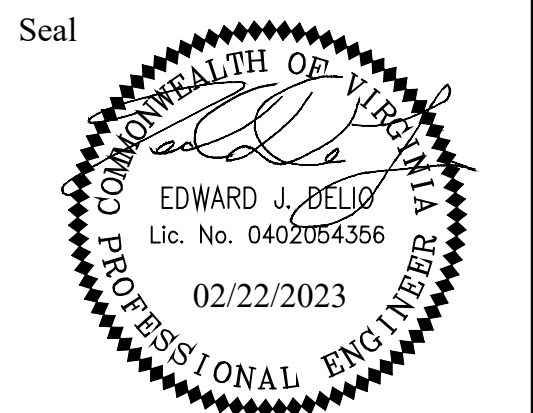
OWNER
DES/DTD/PLAN

CONTRACTOR
TO BE DETERMINED

Location Map



Kimley-Horn
Kimley-Horn
and Associates, Inc.
© 2022 KIMLEY-HORN AND ASSOCIATES, INC.
11400 Commerce Park Drive, Suite 400
Reston, Virginia 20191
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COLUMBIA PIKE ROUTE 244 MULTIMODAL STREET IMPROVEMENTS SEGMENT D SOUTH COURTHOUSE ROAD TO SOUTH GARFIELD STREET

SWM#16-0078

GENERAL NOTES:

GENERAL CONSTRUCTION NOTES

- ALL ELEVATIONS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
 - 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.
 - 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 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.
 - 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. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE EXISTING UTILITIES AND THE RELATED STRUCTURES. ALL EXISTING UTILITY SYSTEMS SHALL BE PROTECTED TO PREVENT DAMAGE DURING THE CONTRACTOR'S OPERATIONS. ANY SYSTEM DAMAGED SHALL BE PROMPTLY REPAIRED AT NO COST TO THE OWNER.

THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES BETWEEN ACTUAL FIELD CONDITIONS AND THE APPROVED PLANS.
 - 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.
- STORMWATER AND ENVIRONMENTAL PROTECTION**
- 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.
 - 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**
- 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 (LDD).
 - NO TREES SHALL BE REMOVED OR OTHERWISE AFFECTED UNLESS CLEARLY MARKED ON THE APPROVED PLAN.

- TREES SHALL BE PROTECTED PER THE REQUIREMENTS OF SECTION 02100 - CLEARING AND GRUBBING
- TRAFFIC CONTROL**
- CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST 3 WORKING DAYS PRIOR TO DISTURBING ANY EXISTING, OR INSTALLING ANY NEW, TRAFFIC SIGNS, SIGNALS, OR OTHER TRAFFIC CONTROL DEVICES.
 - 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 ENGINEER AT LEAST 3 WORKING DAYS PRIOR TO THE DESIRED ONSET OF RESTRICTIONS.
 - THE CONTRACTOR SHALL PRESERVE ALL BUS STOPS, INCLUDING MAINTAINING ADEQUATE ACCESS THROUGH AND ADJACENT TO THE CONSTRUCTION FOR BUSES AND THEIR PASSENGERS. THE CONTRACTOR SHALL NOT CLOSE, RELOCATE, OR OTHERWISE MODIFY A BUS STOP WITHOUT PRIOR REQUEST OF THE ENGINEER. 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.
 - 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.
 - 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 ENGINEER.
 - 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**
- 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.
 - 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.
 - 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)	DESIGN COMPLETION	DESIGN YEAR
URBAN OTHER PRINCIPAL ARTERIAL (2014, VDOT)	25,000 VPD	33,000 VPD	2022 (SEGMENT)	2038

DESIGN SPEED = 30 M.P.H.
TYPE A ARTERIAL: WEST OF S. COURTHOUSE ROAD TO S. WALTER REED DR
TYPE D ARTERIAL: EAST OF S. COURTHOUSE ROAD

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REVISION #1
UPDATE TO STORM INLET LOCATION IN FRONT OF ELLIOT DEVELOPMENT

PROJECT DESCRIPTION:

- 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 PEDESTRIAN, BICYCLE, TRANSIT, AND VEHICLE 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.
- 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 5-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
 - CONSOLIDATION OF SUBSURFACE UTILITIES
 - MINIMAL IMPACTS TO ADJACENT PROPERTIES
- THE WORK OF THIS PROJECT WILL INCLUDE, BUT IS NOT LIMITED TO, DEMOLITION, EXCAVATION, EMBANKMENT, DRAINAGE UTILITIES, PAVING, LIGHTING, TRANSIT SHELTERS, LANDSCAPING, SIGNING AND PAVEMENT MARKING, AND MAINTENANCE OF TRAFFIC.
- THE CONTRACTOR SHALL COMPLETE THE WORK IN ACCORDANCE WITH THESE PLANS, REFERENCE SPECIFICATIONS, AND ALL OTHER CONTRACT DOCUMENTS.

Approvals _____ Date _____

Design Team Engineer Supervisor _____

Construction Management Supervisor _____

Water, Sewer, Streets Bureau Chief _____

Transportation Director _____

Project Manager _____

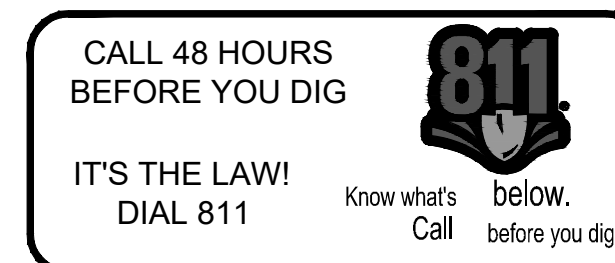
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Drawn: MAT
Checked: EJD
Miss Utility Transmittal #:

Filename: 010073-OVERALL-CV-D.dwg
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Plotted: February 22, 2023
Plotted by: Miguel.Tyshing

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 _____



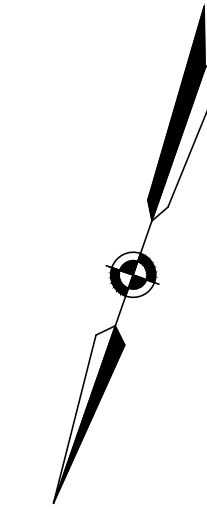
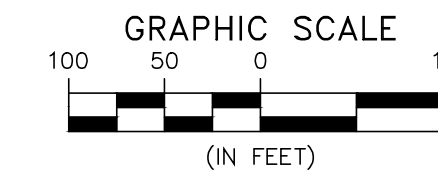
ARLINGTON COUNTY, VIRGINIA
DEPARTMENT OF ENVIRONMENTAL SERVICES

TITLE SHEET
COLUMBIA PIKE - ROUTE 244
COLUMBIA PIKE - MULTIMODAL STREET IMPROVEMENTS
SEGMENT D
S. COURTHOUSE RD. TO S. GARFIELD ST.

SCALE: HOR. N/A VERT. N/A SHEET: D1.1 of D1.2

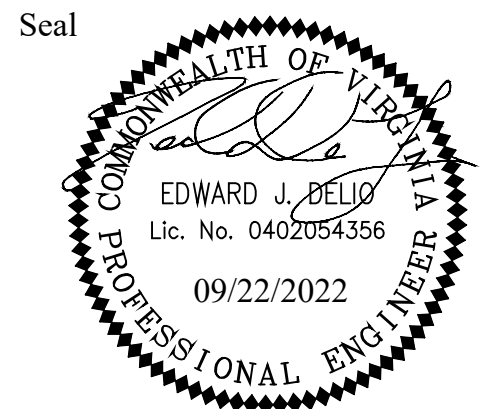
COLUMBIA PIKE - ROUTE 244
Arlington County, Virginia

SEGMENT D
S. COURTHOUSE ROAD TO S. GARFIELD STREET
STA. 88+50 - STA. 111+50



ARLINGTON VIRGINIA
DEPARTMENT OF ENVIRONMENTAL SERVICES
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Approvals _____ Date _____

Design Team Engineer Supervisor _____

Construction Management Supervisor _____

Water, Sewer, Streets Bureau Chief _____

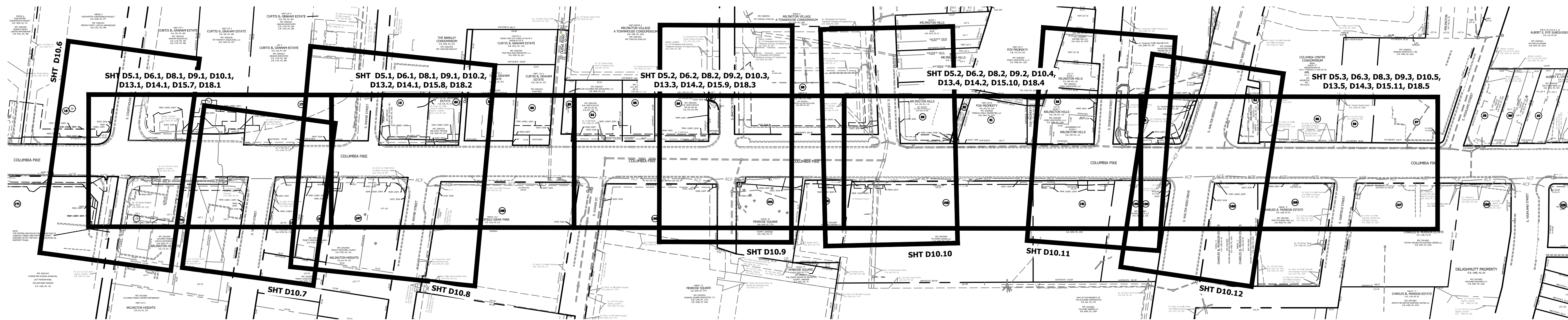
Transportation Director _____

Project Manager _____

Revisions _____ Date _____

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

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2 Final Design of Columbia Pike Segment\Report\0113.2 - 100%
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Plotted: September 22, 2022
Plotted by: Ted.DeLio

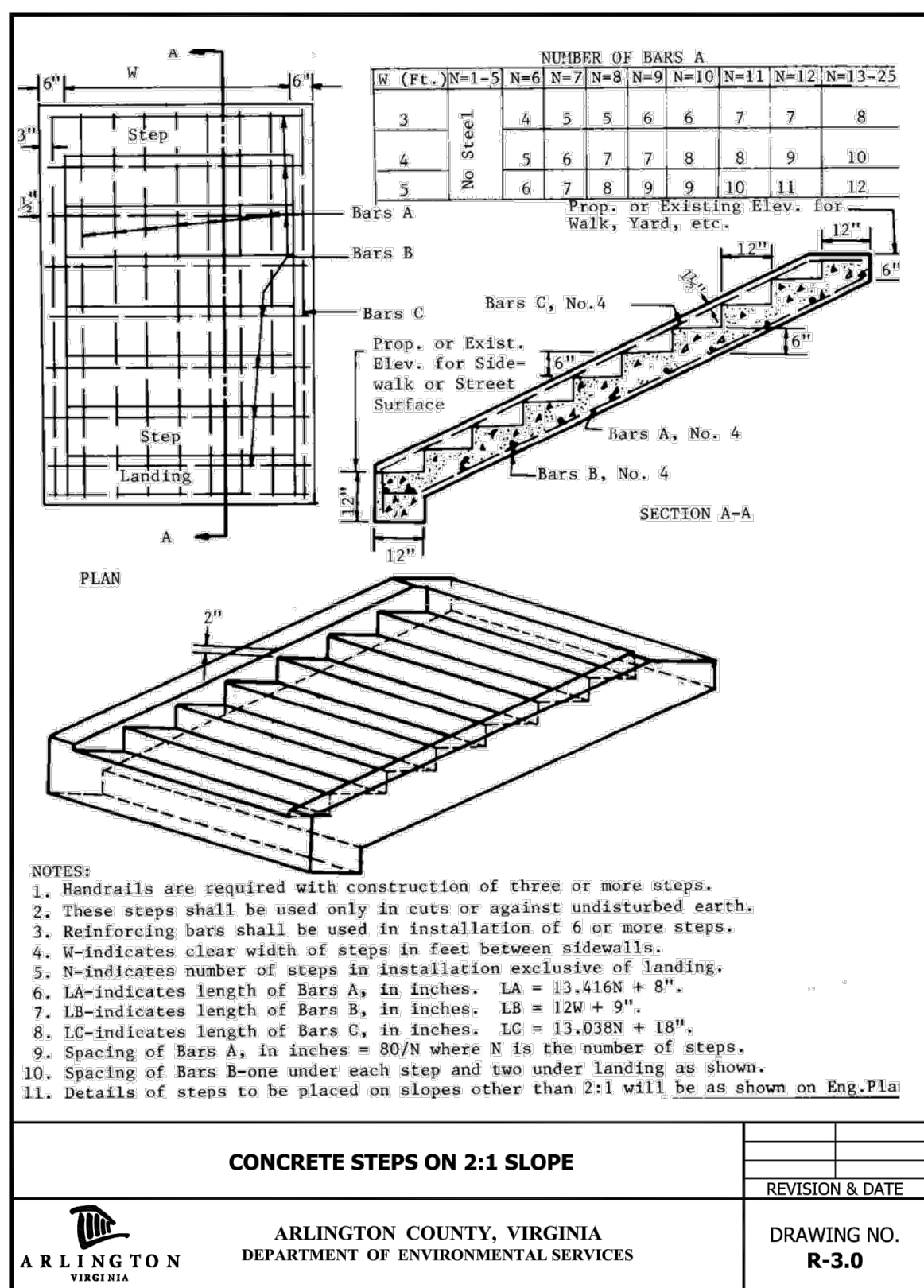


ARLINGTON COUNTY, VIRGINIA DEPARTMENT OF ENVIRONMENTAL SERVICES		
COVER SHEET COLUMBIA PIKE - ROUTE 244 COLUMBIA PIKE - MULTIMODAL STREET IMPROVEMENTS SEGMENT D STA. 88+50 TO STA. 111+50		
SCALE:	HOR. 1" = 25' VERT. N/A	SHEET: D1.2 of D1.2

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 MAY 5, 2015 AND SUPPLEMENTAL MAPPING AT 2112 COLUMBIA PIKE, DATED APRIL 4, 2022. BASIS FOR MAPPING IS FIELD SURVEY AND AS-BUILT INFORMATION.
- FOR CONTROL AND MAINTENANCE OF TRAFFIC REFER TO THE CONTRACT SPECIAL PROVISIONS, MAINTENANCE OF TRAFFIC, WITHIN THE CONTRACT DOCUMENTS. IN ADDITION TO THE MAINTENANCE OF TRAFFIC PLANS INCLUDED HEREIN, CONTRACTOR SHALL ADHERE TO ALL APPLICABLE REQUIREMENTS AND STANDARDS PUT FORTH IN THE CURRENT VERSION OF THE MUTCD, AND THE CURRENT VERSION OF THE VIRGINIA WORK AREA PROTECTION MANUAL.



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 ARLINGTON COUNTY FROM THE LAND OWNER OR HAVE BEEN ACQUIRED. EASEMENTS FOR CERTAIN PARCELS IN THE PROCESS OF BEING FINALIZED AND OBTAINED BY THE COUNTY AT THE TIME OF THIS SUBMISSION SHALL BE FINALIZED BY THE COUNTY PRIOR TO CONSTRUCTION NOTICE TO PROCEED.

COORDINATION

- CONSTRUCTION WILL TAKE PLACE ADJACENT TO ONGOING TRAFFIC OPERATIONS. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH ARLINGTON COUNTY'S (AC) PROJECT OFFICER.
- THE CONTRACTOR SHALL SUBMIT A SCHEDULE FOR CONSTRUCTION TO THE 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 MINIMUM 2-WEEK ADVANCE SCHEDULE UPDATES AT THESE MEETINGS.
- THE CONTRACTOR WILL BE REQUIRED TO CLOSELY COORDINATE WITH ADJACENT ONGOING AND PLANNED PROJECTS BEING CONSTRUCTED BY OTHERS, INCLUDING BUT NOT LIMITED TO THE COUNTY TRANSIT STATIONS PROJECT, THE ELLIOTT DEVELOPMENT PROJECT AND THE S. WALTER REED DRIVE IMPROVEMENTS 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

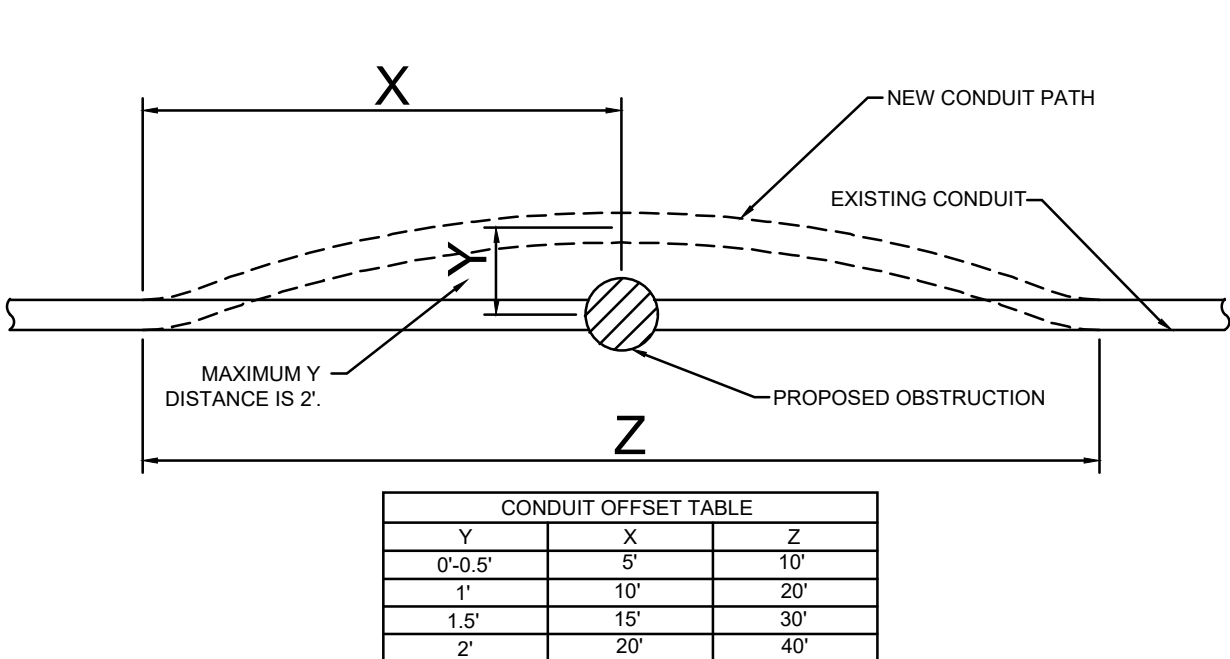
- THE CONTRACTOR SHALL COORDINATE WITH REPRESENTATIVES OF THE UTILITY PROVIDERS (OWNERS) WHO WILL BE OPERATING PORTIONS OF THE UTILITY DUCT BANK SYSTEM SUPPORTING THE RELOCATION OF EXISTING UTILITIES (BOTH OVERHEAD AND UNDERGROUND) AND THE INSTALLATION OF NEW UNDERGROUND UTILITIES.

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 (DEV)	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/HER 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 CONSIST OF 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 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 (ACF)
 - 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 AS APPLICABLE:
 - 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 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 TO RESOLVE THE CONFLICT. 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.
- IF COUNTY FHH OR CONDUIT NEED TO BE RELOCATED, THE COUNTY'S MAINTENANCE CONTRACTOR MUST BE EMPLOYED TO REPLACE OR ADJUST, EITHER HORIZONTALLY OR VERTICALLY, TO OPEN THE LID OF A COUNTY FHH REQUIRES THE PRESENCE OF A COUNTY FIBER OPTIC TEAM MEMBER. THE FIBER TEAM MAY BE REACHED AT (703) 228-7726.
- ACF HANDHOLES MAY ONLY BE RELOCATED OR ADJUSTED BY THE COUNTY'S ON-CALL FIBER CONTRACTOR: N-TO-N FIBER. CONTACT DTS FIBER TEAM AT (703) 228-7726 FOR ADDITIONAL INFORMATION.

CONDUIT RELOCATION DETAIL

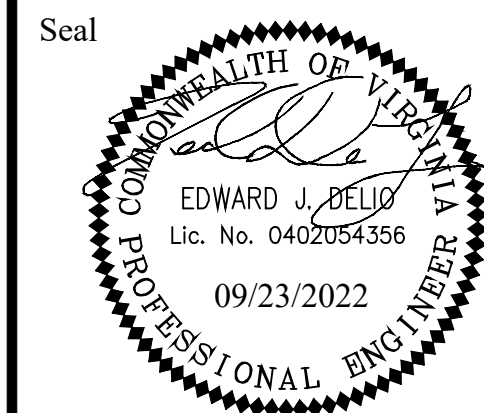


CONSTRUCTION NOTES:

- CONTRACTOR TO NOTIFY ARLINGTON COUNTY'S FIBER ENGINEER AT (703) 228-7726 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.
- CALL (703) 228-7726 TO OBTAIN A LIST OF CURRENTLY APPROVED CONTRACTORS.
- 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) 228-7726.
- 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).

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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: PNH
 Drawn: PNH
 Checked: EJD
 Miss Utility Transmittal #:

Filename: 010073-D-GENERALNOTES.dwg
 Path: C:\Users\jdelio\OneDrive\Documents\Projects\2022\010073-D-GENERALNOTES.dwg
 Plotted: September 23, 2022
 Plotted by: Miguel Tyshing

ARLINGTON COUNTY, VIRGINIA
 DEPARTMENT OF ENVIRONMENTAL SERVICES

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

SCALE: HOR. N/A VERT. N/A SHEET: D2.1 of D2.5

ARLINGTON VIRGINIA
 DEPARTMENT OF ENVIRONMENTAL SERVICES
 Luis Araya
 BUREAU CHIEF, DES. - DEVELOPMENT SERVICES
 3/7/2023
 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 VIDEO 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.

DRAINAGE

- 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.
- CONTRACTOR IS REQUIRED TO FOLLOW ALL APPLICABLE REQUIREMENTS AND GUIDELINES IN THE CURRENT VERSION OF THE ARLINGTON COUNTY STORMWATER MANUAL (LAST REVISED JULY 2021 AS OF DATE OF SUBMISSION).

RPA NARRATIVE

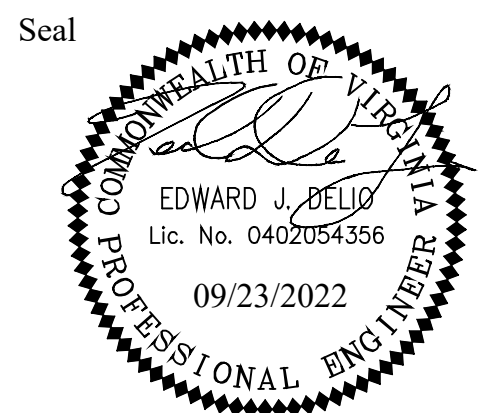
THERE ARE NO RPA LIMITS WITHIN OR ADJACENT TO THE LIMITS OF DISTURBANCE OF THIS SEGMENT, (F). NO IMPACTS TO THE RPA, ITS COMPONENTS OR DISTURBANCE WITHIN THE RPA ARE PROPOSED.



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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: PNH
Drawn: PNH
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Plotted: September 23, 2022
Plotted by: Miguel.Tyshing

ARLINGTON COUNTY, VIRGINIA DEPARTMENT OF ENVIRONMENTAL SERVICES		
GENERAL NOTES AND DETAILS COLUMBIA PIKE - ROUTE 244 COLUMBIA PIKE - MULTIMODAL STREET IMPROVEMENTS SEGMENT D		
SCALE:	HOR. N/A VERT. N/A	SHEET: D2.2 of D2.5

EROSION AND SEDIMENT CONTROL NOTES AND NARRATIVE

EROSION AND SEDIMENT CONTROL NOTES

- TEMPORARY SILT FENCE SHALL BE CONSTRUCTED FOR SHEET RUN OFF AS SHOWN ON PLAN OR AS DIRECTED BY THE ENGINEER.
- 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.
- 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.
- 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.
- SYNTHETIC FILTER FABRIC SHALL BE A PERVIOUS 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 3.06-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 0° TO 120°F.
- 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.
- 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 4VAC60-30 EROSION AND SEDIMENT CONTROL REGULATIONS.
- 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 ENGINEER 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.
- 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.
- SILT REMOVAL AND SEDIMENT CLEAN-OUT FROM EROSION AND SILTATION CONTROL ITEMS SHALL BE PERFORMED IN ACCORDANCE WITH THE FOLLOWING:
 - TEMPORARY SEDIMENT BASINS AND SEDIMENT TRAPS - WHEN THE "WT" STORAGE VOLUME (PERMANENT POOL) HAS BEEN REDUCED BY 50%.
 - DEWATERING BASINS - WHEN THE EXCAVATED VOLUME HAS BEEN REDUCED BY 50%.
 - ALL OTHER EROSION AND SILTATION CONTROL ITEMS - WHEN THE CAPACITY, HEIGHT, OR DEPTH HAS BEEN REDUCED BY 50%.
- 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.
- 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 ARLINGTON COUNTY (AC).
- 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.
- EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO OR AS THE FIRST STEP IN CONSTRUCTION.
- A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
- 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.
- DURING DEWATERING OPERATIONS, WATER WILL BE PUMPED INTO AN APPROVED FILTERING DEVICE.
- 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.
- EROSION CONTROL MEASURES ARE TO BE REMOVED BY CONTRACTOR AFTER PERMANENT VEGETATION HAS BEEN ESTABLISHED.
- UNDERGROUND UTILITY LINES SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING STANDARDS:
 - NO MORE THAN 500 LINEAR FEET OF TRENCH MAY BE OPENED AT ONE TIME.
 - EXCAVATED MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF THE TRENCH.
 - 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.
 - MATERIAL USED FOR BACKFILLING TRENCHES SHALL BE PROPERLY COMPACTED IN ORDER TO MINIMIZE EROSION AND PROMOTE STABILIZATION.
 - RESTABILIZATION SHALL BE ACCOMPLISHED IN ACCORDANCE WITH STANDARDS 3.31 AND 3.32.
 - ALL TRENCHING SHALL BE IN ACCORDANCE WITH APPLICABLE SAFETY STANDARDS.

LAND CONSERVATION NOTES

- NO DISTURBED AREA WILL REMAIN DENUDE FOR MORE THAN 7 CALENDAR DAYS UNLESS OTHERWISE AUTHORIZED BY THE DIRECTOR OR HIS AGENT.
- ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO OR AS THE FIRST STEP IN GRADING. FIRST AREAS TO BE CLEARED ARE TO BE THOSE REQUIRED FOR THE PERIMETER CONTROLS.
- ALL STORM 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.
- ELECTRIC POWER, TELEPHONE, AND GAS SUPPLY TRENCHES ARE TO BE COMPACTED, SEEDED, AND MULCHED WITHIN 5 DAYS AFTER BACKFILL.
- 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.
- DURING CONSTRUCTION, ALL STORM SEWER INLETS WILL BE PROTECTED BY INLET PROTECTION.

MINIMUM STANDARDS REVIEW

- | | |
|-------|--|
| 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 ACTIVITIES. 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 | 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. |

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

Re: Erosion and Sediment Control Permit Application for:

street address _____

lot, block, section subdivision _____

permit number _____

Dear Mrs. Li:

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

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

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

Sincerely,

signed _____

name printed _____

professional registration (type and number) _____

EROSION & SEDIMENT CONTROL NARRATIVE

PROJECT DESCRIPTION:
THIS PROJECT RECONSTRUCTS EXISTING COLUMBIA PIKE FROM SOUTH COURTHOUSE STREET TO SOUTH GARFIELD STREET, FROM BACK OF SIDEWALK TO THE OPPOSITE BACK OF SIDEWALK, DISTURBING APPROXIMATELY 5.77 ACRES. THE PROJECT INCLUDES RECONSTRUCTION OF SIGNALS ALONG THE CORRIDOR AND RELOCATION OF THE EXISTING UTILITIES.

EXISTING CONDITIONS:
COLUMBIA PIKE IS A MULTI-LANE, CURB AND GUTTER ROAD WITH SIDEWALKS ON BOTH SIDES. 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 PROBLEMS ARE TO BE IMPROVED WITH ADDITIONAL STORM DRAINAGE INLETS. THERE ARE NO NEW CUT OR 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 - UDORTMENTS 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.

EROSION AND SEDIMENT CONTROL MEASURES:
THE FOLLOWING EROSION CONTROLS SHALL BE USED DURING THIS PROJECT:

- STD. 3.05 SILT FENCE - SILT FENCE AND 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.
- STD. 3.07 STORM DRAIN INLET PROTECTION - STORM DRAINAGE INLETS SHALL BE PROTECTED IN ACCORDANCE WITH THIS STANDARD. INLETS DOWN GRADIENT FROM LAND DISTURBING ACTIVITIES SHALL HAVE INLET PROTECTION INSTALLED PRIOR TO STARTING LAND DISTURBANCE. CARE SHALL BE TAKEN AS TO NOT INTERFERE WITH TRAFFIC ON COLUMBIA PIKE WHEN SELECTING THE TYPE OF INLET PROTECTION TO BE USED. THE CONTRACTOR IS TO REMOVE SILT BUILUP 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.
- 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 AND TYPE OF FILTER OR CONTROL THAT IS TO BE USED AND FOR HOW LONG IT WILL BE USED.
- STD. 3.31 TEMPORARY SEEDING - TEMPORARY SEEDING SHALL BE APPLIED IN ACCORDANCE WITH THIS STANDARD. TEMPORARY STABILIZATION IS REQUIRED WHEN AN AREA IS 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.
- 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.
- 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.
- 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.
- 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.

PERMANENT STABILIZATION:
ALL DISTURBED AREAS BY THIS PROJECT SHALL BE STABILIZED WITH PERMANENT GROUND COVER UTILIZING STD. 3.33. 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.

STORMWATER RUNOFF CONSIDERATIONS:
THIS PROJECT REPLACES AND IMPROVES THE EXISTING FACILITY AND DOES NOT SIGNIFICANTLY INCREASE SURFACE RUNOFF PATTERNS OR VOLUMES. NO FLOODING OR CHANNEL DEGRADATION IS ANTICIPATED DOWNSTREAM OF THE PROJECT DUE TO THE PROPOSED STORMWATER RUNOFF.

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

PRE-STORM EROSION AND SEDIMENT CONTROL CHECKLIST

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.

PERIMETER CONTROLS

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

EXPOSED SLOPES AND SOIL

- 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.
- CONTROLS SHALL BE INSTALLED TO PREVENT CONCENTRATED FLOW DOWN AN EXPOSED SLOPE. BERMS OR DIVERSION DIKES SHALL BE INSTALLED AT THE TOP OF CUT / EXPOSED SLOPES TO DIRECT STORM FLOW AROUND THE DISTURBED AREA.
- EXPOSED SLOPES AT THE FINAL STABILIZATION PHASE SHALL BE STABILIZED USING SLOPE STABILIZATION PRACTICES SUCH AS SOIL STABILIZATION BLANKETS OR MATTING AS SPECIFIED IN THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK (VESCH) STD & SPEC 3.36. BLANKETS OR MATS MUST BE PROPERLY SECURED AND ANCHORED TO THE SLOPE USING STAPLES, PINS, OR STAKES.
- SEEDED AREAS SHALL BE CHECKED AND RESEEDED AS NECESSARY TO COVER EXPOSED SOIL. RECENTLY SEEDED AREAS SHALL BE PROTECTED BY STRAW OR SOIL STABILIZATION BLANKETS TO PREVENT SEEDING FROM BEING WASHED AWAY.

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 OVERFLOW / BYPASS OF STORMWATER RUNOFF DURING SIGNIFICANT STORM EVENTS.

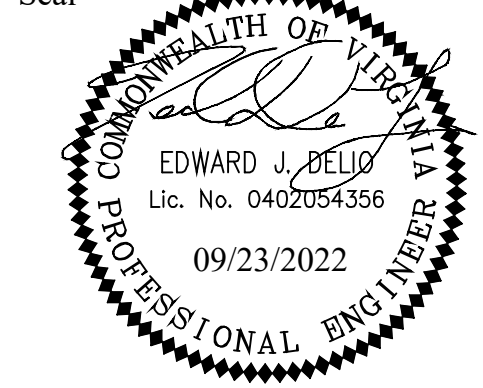
IN ADDITION TO THESE PRE-STORM ACTIONS, ALL EROSION AND SEDIMENT CONTROL (ESC) MEASURES MUST BE CHECKED DAILY AND AFTER EACH SIGNIFICANT RAINFALL.



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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and Associates, Inc.
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11400 Commerce Park Drive, Suite 400
Reston, Virginia 20191
Phone: 703-874-1500
Fax: 703-674-1500

Seal



Approvals _____ Date _____

Design Team Engineer Supervisor _____

Construction Management Supervisor _____

Water, Sewer, Streets Bureau Chief _____

Transportation Director _____

Project Manager _____

Revisions _____ Date _____

Designed: PNH

Drawn: PNH

Checked: EJD

Miss Utility Transmittal #: _____

Filename: 010073-D-GENERALNOTES.dwg

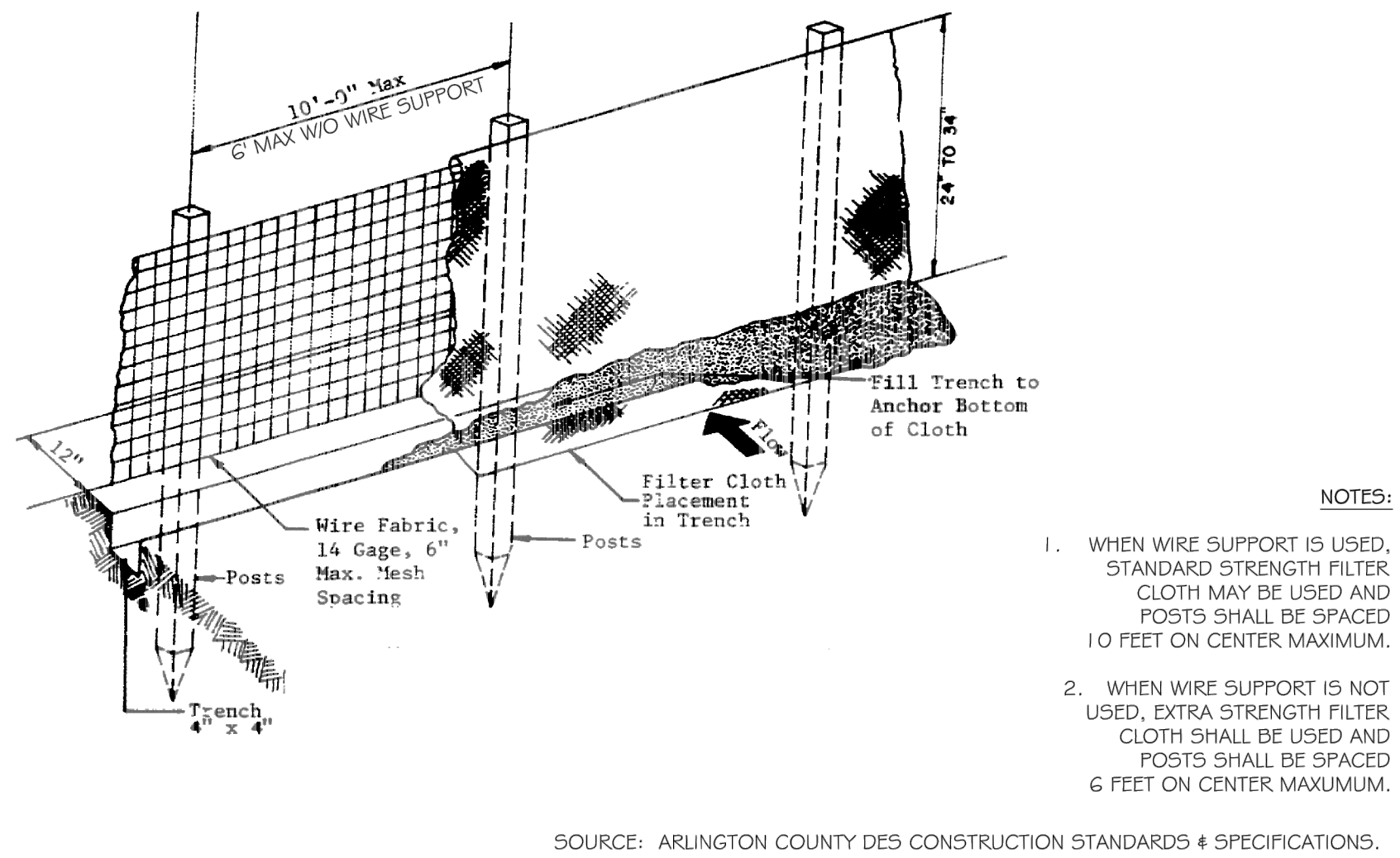
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Plotted: September 23, 2022

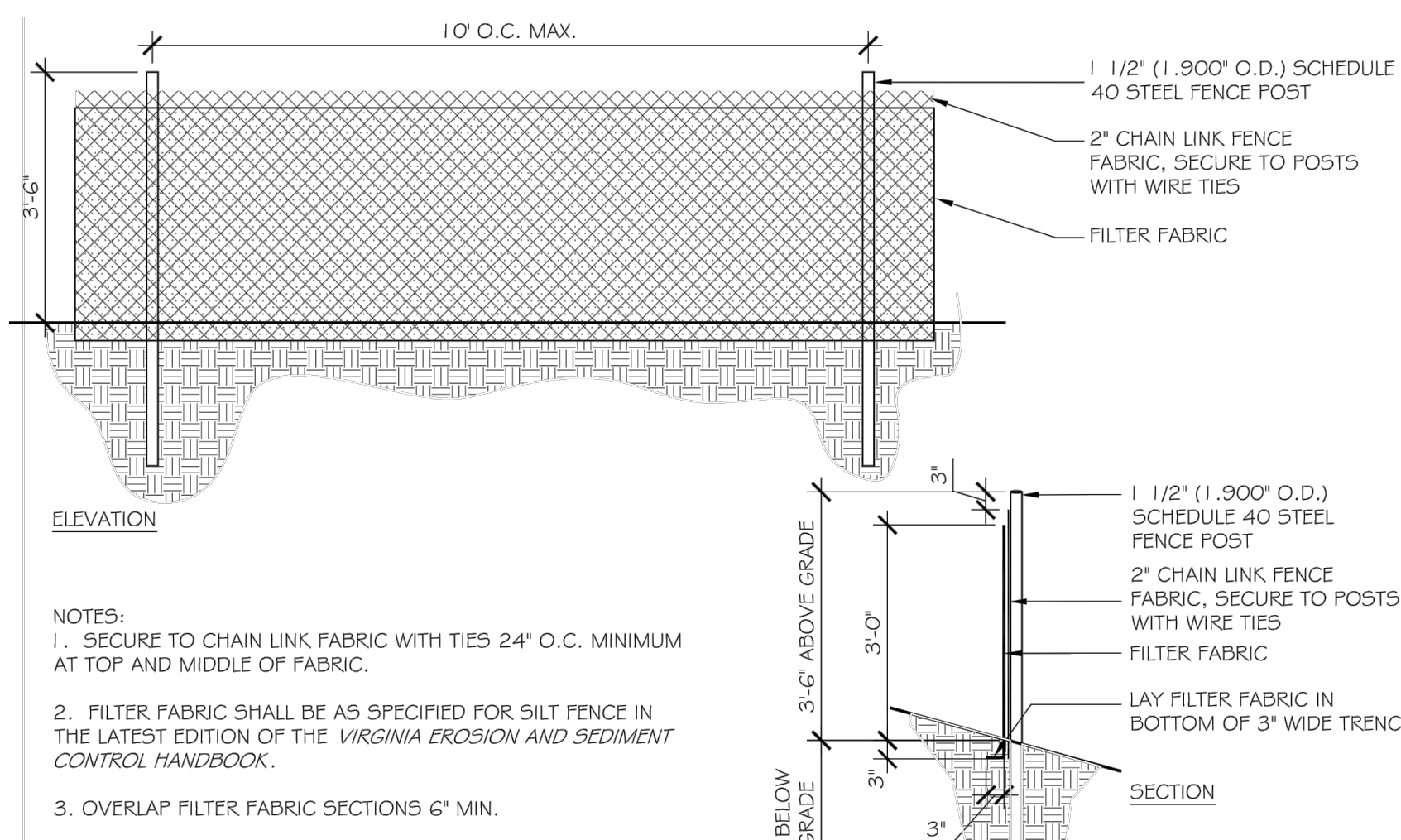
Plotted by: Miguel Tyshing

ARLINGTON COUNTY, VIRGINIA DEPARTMENT OF ENVIRONMENTAL SERVICES		
GENERAL NOTES AND DETAILS COLUMBIA PIKE - ROUTE 244 COLUMBIA PIKE - MULTIMODAL STREET IMPROVEMENTS SEGMENT D		
SCALE:	HOR. N/A VERT. N/A	SHEET: D2.3 of D2.5

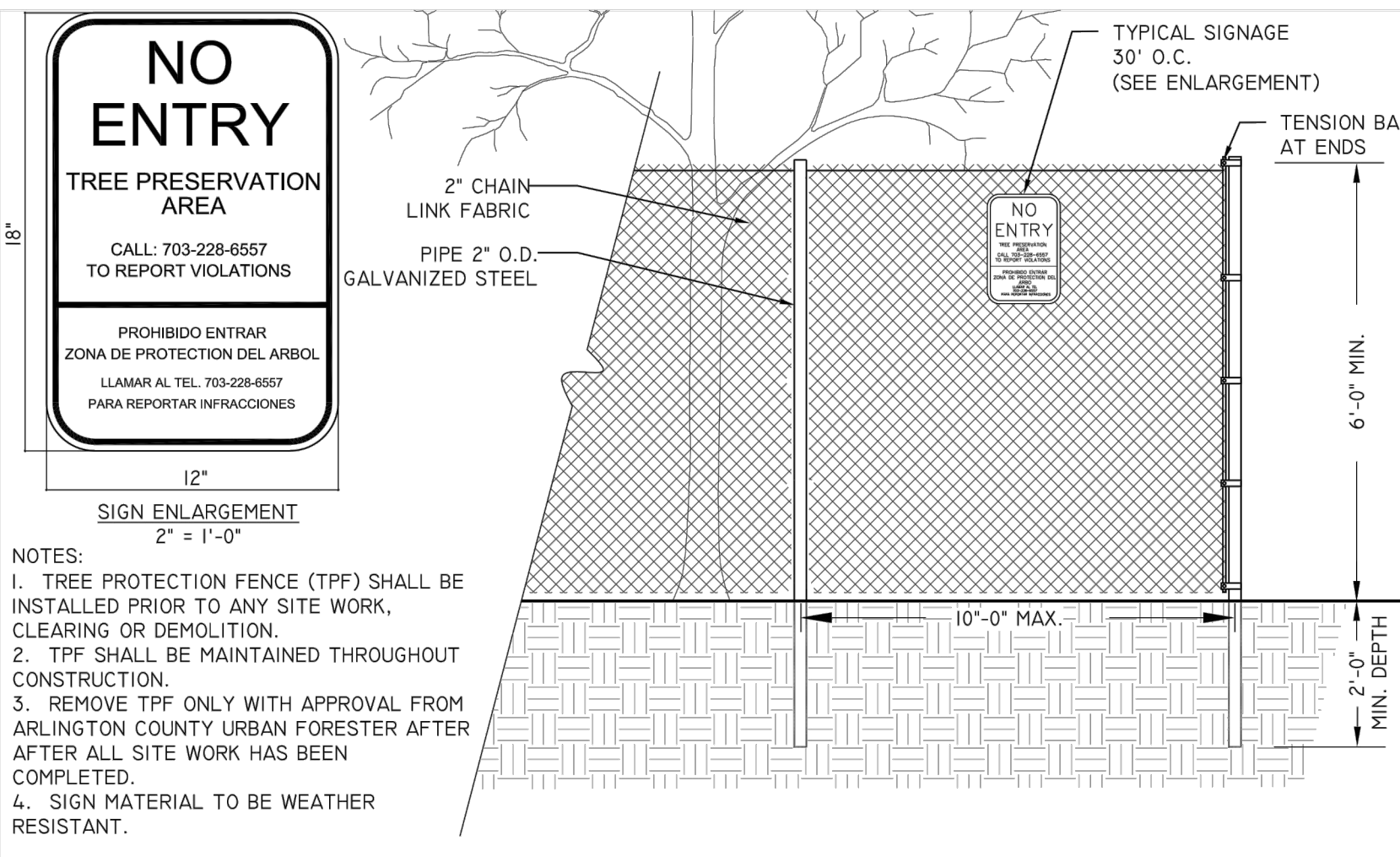
 ARLINGTON VIRGINIA LUCAS ARAYA BUREAU CHIEF, DES. DEVELOPMENT SERVICES	DEPARTMENT OF ENVIRONMENTAL SERVICES 3/7/2023 APPROVAL DATE
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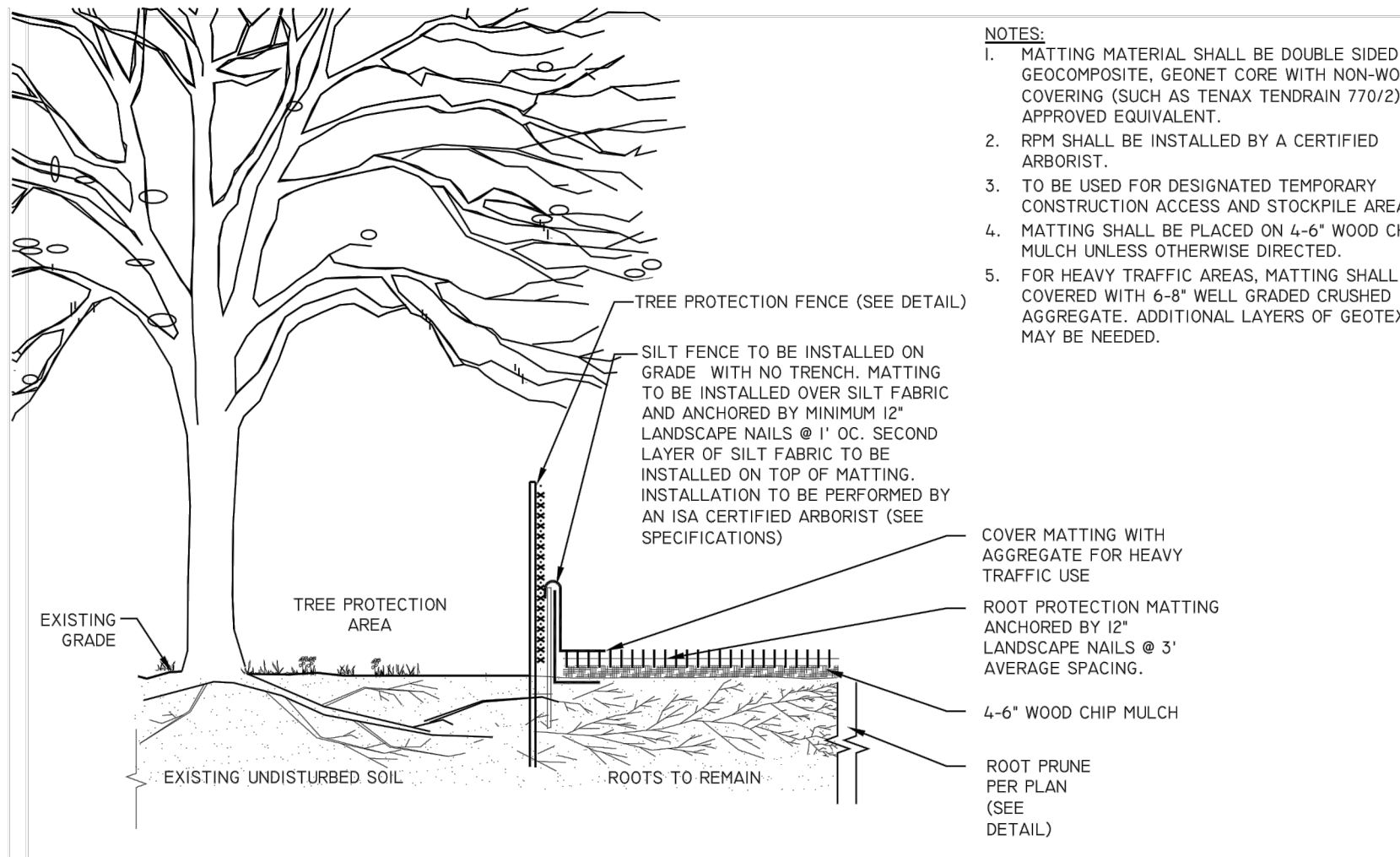
SILT FENCE
ELEVATION
NOT TO SCALE
02570.1



SUPER SILT FENCE
SECTION/ELEVATION
1/2" = 1'-0"
02370.2

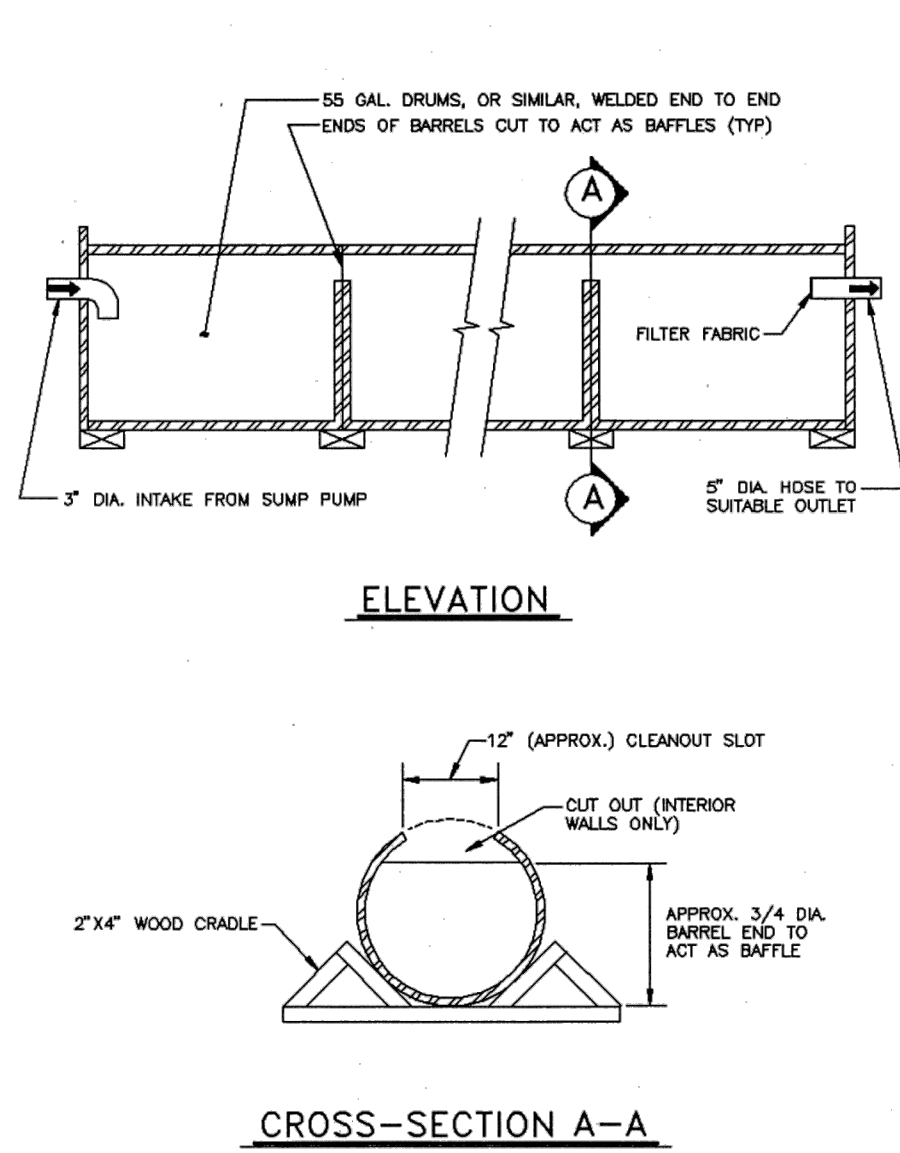


6' CHAIN LINK TREE PROTECTION FENCE
ELEVATION
1/2" = 1'-0"
02251.1
ARLINGTON COUNTY, VIRGINIA DEPARTMENT OF PARKS & RECREATION



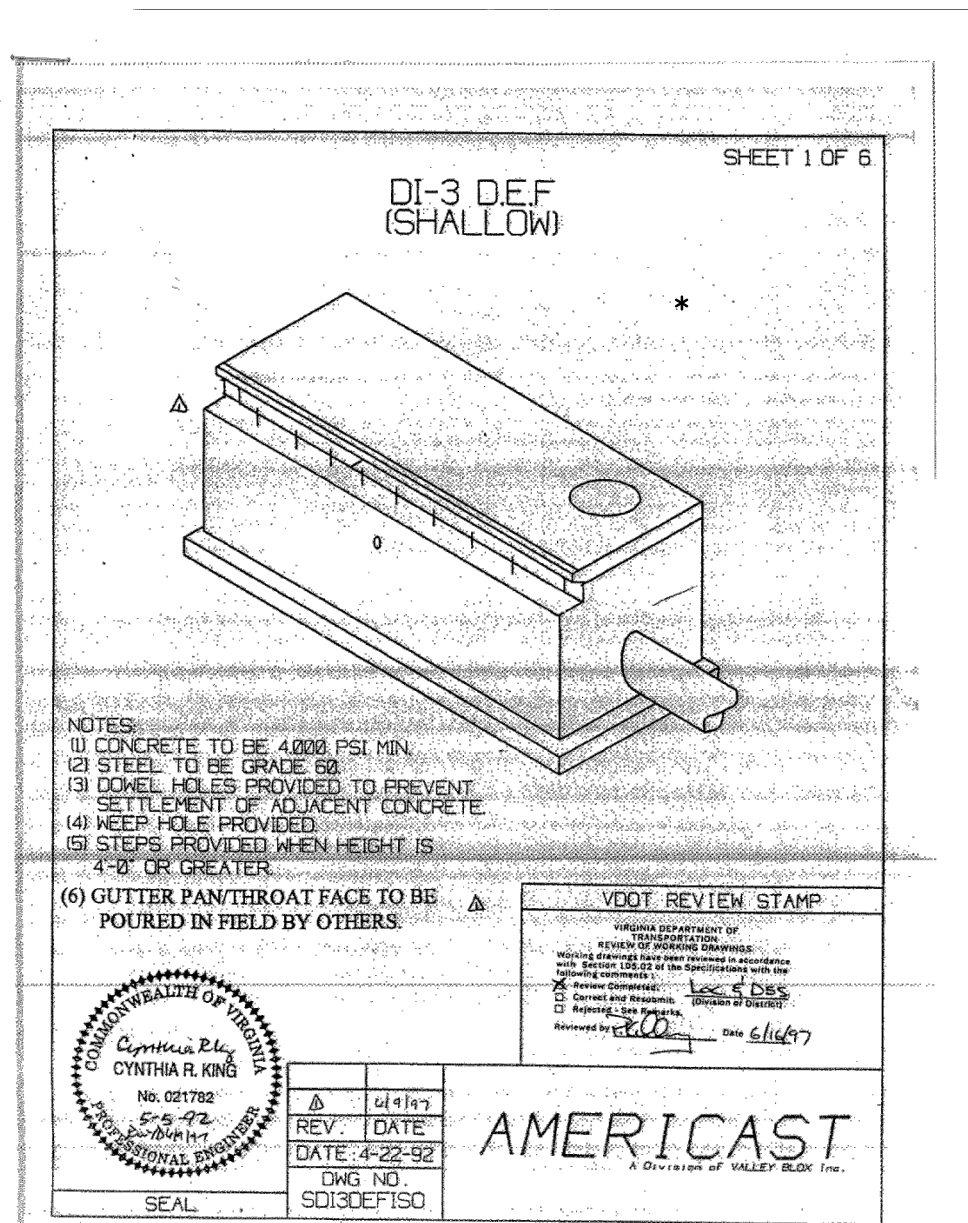
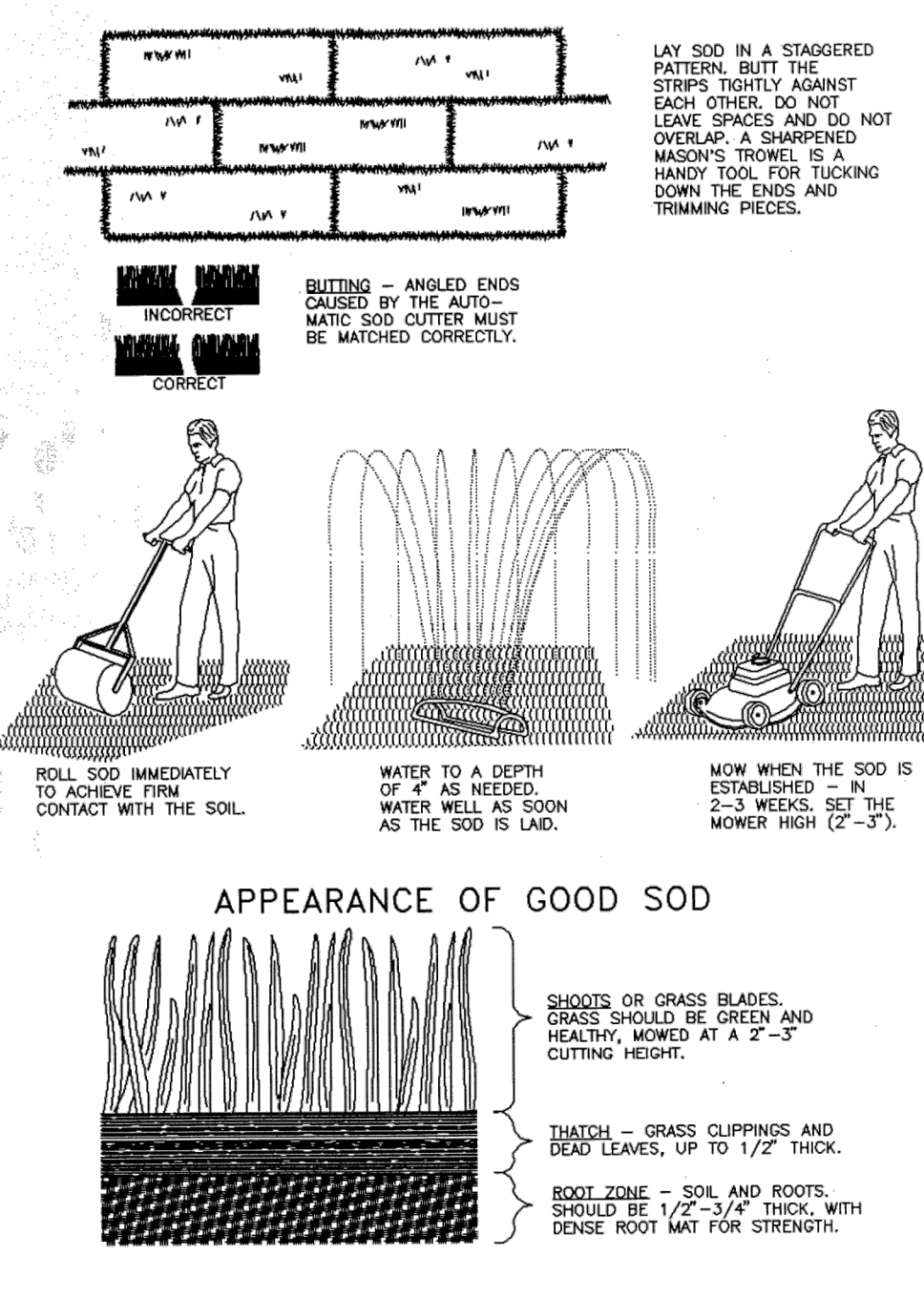
TEMPORARY ROOT PROTECTION MATTING WITHIN CRZ
ELEVATION
NOT TO SCALE
311300.7NS
ARLINGTON VIRGINIA

PORTABLE SEDIMENT TANK



CROSS-SECTION A-A

SODDING



*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.

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:
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>

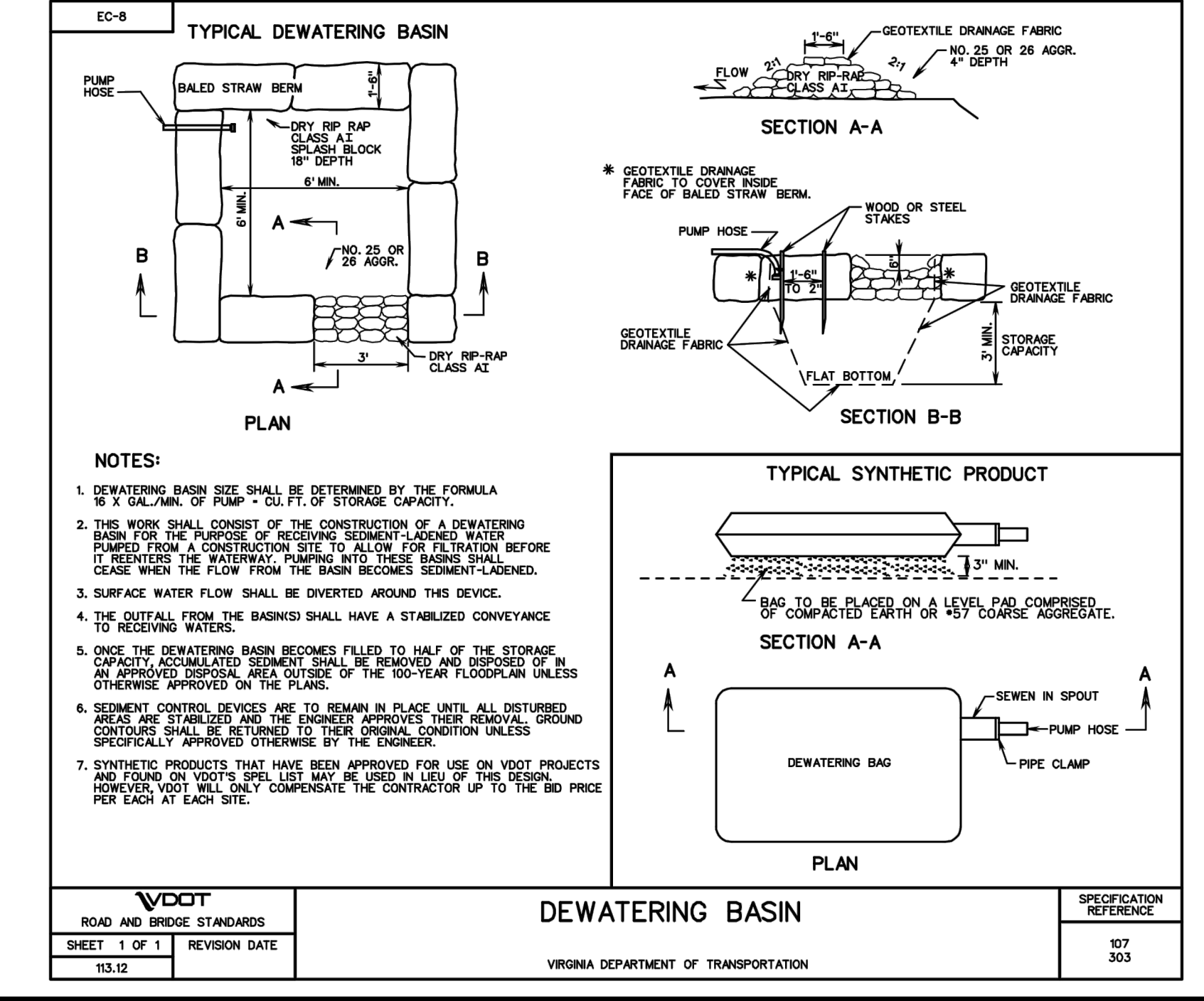
TABLE 3.32-D
(Revised June 2003)
PERMANENT SEEDING SPECIFICATIONS FOR PIEDMONT AREA

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

1 - When selecting varieties of turfgrass, use the Virginia Crop Improvement Association (VCIA) recommended turfgrass variety list. Quality seed will bear a label indicating that they are approved by VCIA. A current turfgrass variety list is available at the local County Extension office or through VCIA at 804-746-4684 or at <http://sudan.cses.vt.edu/html/Turf/turf/publications/publications2.html>
2 - Use seasonal nurse crop in accordance with seeding dates as stated below:
February 16th - April Annual Rye
May 1st - August 15th Foxtail Millet
August 16th - October Annual Rye
November - February 15th Winter Rye
3 - Substitute *Setaria lespedeza* for *Crownvetch* east of Farmville, VA (May through September use hulled seed, all other periods, use unhulled *Setaria*). If *Flatpea* is used, increase rate to 30 lbs./acre. If Weeping Lovegrass is used, include in any slope or low maintenance mature 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>



DEWATERING BASIN
VDOOT ROAD AND BRIDGE STANDARDS SHEET 1 OF 1 REVISION DATE 11.12 VIRGINIA DEPARTMENT OF TRANSPORTATION SPECIFICATION REFERENCE 107 303

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

Kimley-Horn and Associates, Inc.
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11400 Commerce Park Drive, Suite 400
Reston, Virginia 20191
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Fax: 703-874-1300

Seal
COMMONWEALTH OF VIRGINIA
EDWARD J. DELU
Lic. No. 0402054356
09/23/2022
PROFESSIONAL ENGINEER

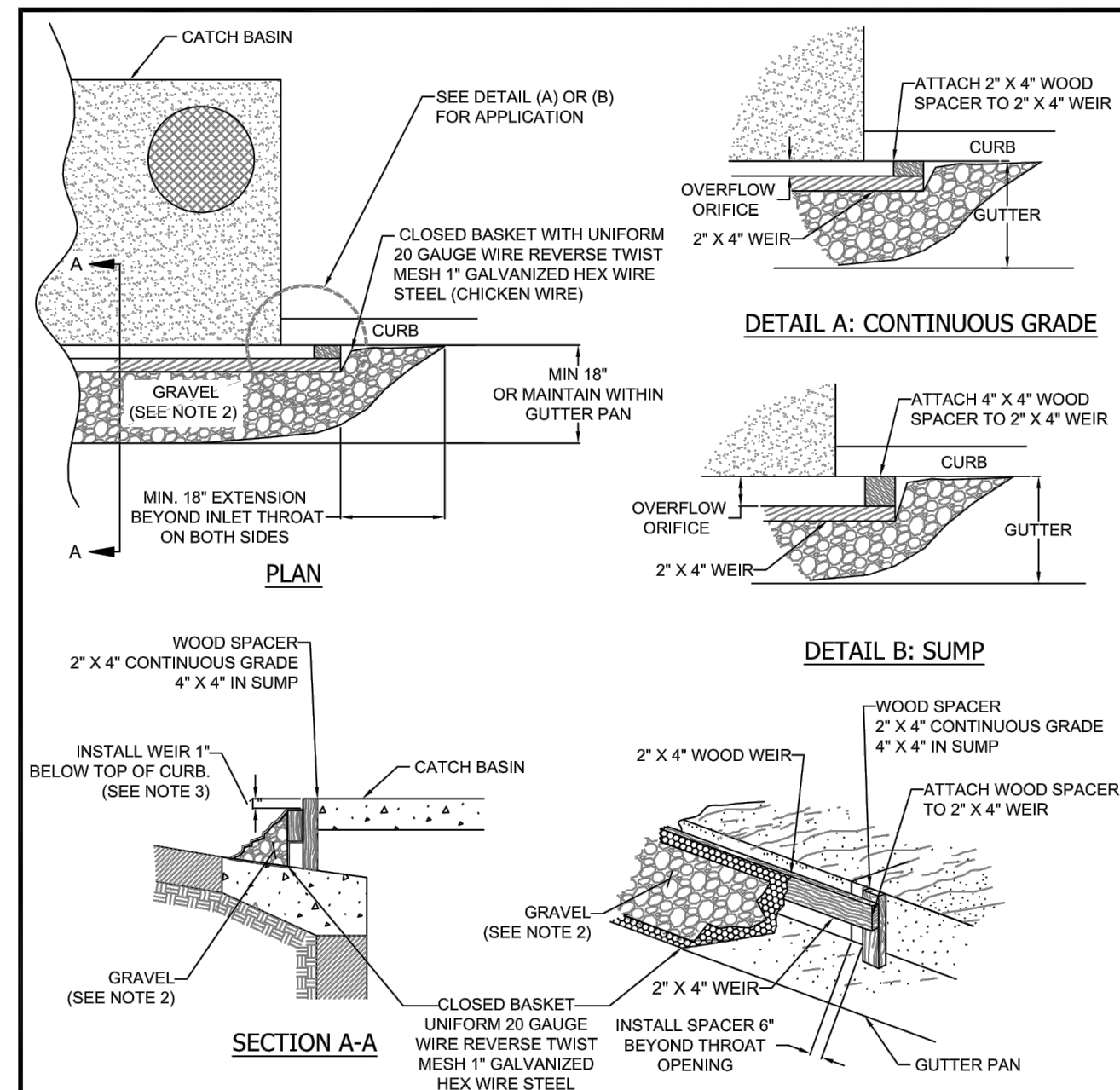
Approvals	Date
Design Team Engineer Supervisor	
Construction Management Supervisor	
Water, Sewer, Streets Bureau Chief	
Transportation Director	
Project Manager	

Designed: PNH
Drawn: PNH
Checked: EJD
Miss Utility Transmittal #:

Filename: 010073-D-GENERALNOTES.dwg
Path: C:\Users\jdelu\OneDrive\Desktop\Projects\17-2-1009\17-2-1009-Final Design of Columbia Pike Segment D\17-2-1009-Design\Revisions
Plotted: September 23, 2022
Plotted by: Miguel Tyshing

ARLINGTON COUNTY, VIRGINIA
DEPARTMENT OF ENVIRONMENTAL SERVICES
GENERAL NOTES AND DETAILS
COLUMBIA PIKE - ROUTE 244
COLUMBIA PIKE - MULTIMODAL STREET IMPROVEMENTS
SEGMENT D
SCALE: HOR. N/A VERT. N/A SHEET: D2.4 of D2.5

ARLINGTON VIRGINIA
DEPARTMENT OF ENVIRONMENTAL SERVICES
LUIS ARAYA
BUREAU CHIEF, DES - DEVELOPMENT SERVICES
3/7/2023
APPROVAL DATE



NOTES:

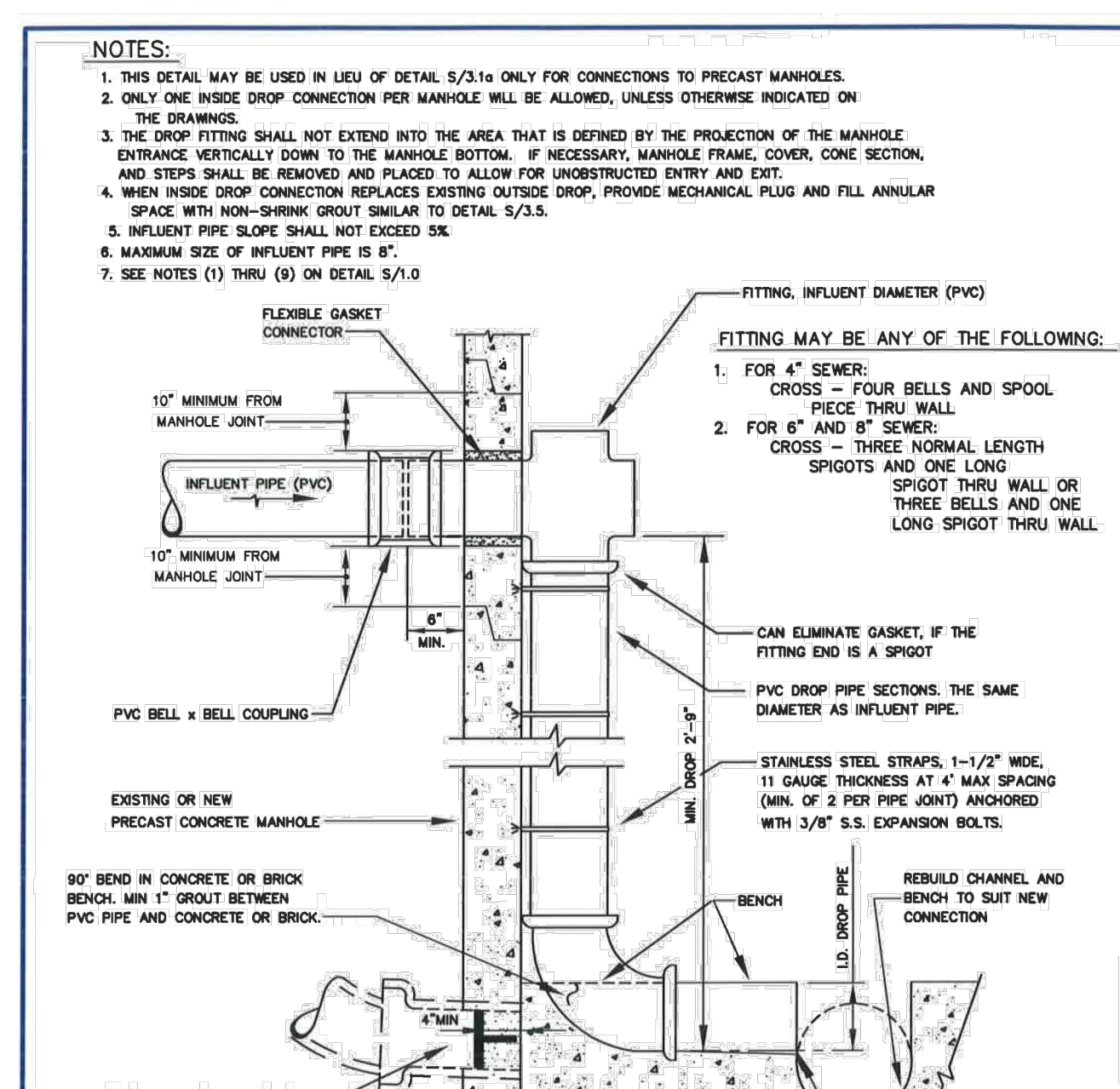
- DIMENSIONAL LUMBER SIZES SHOWN.
- GRAVEL SHALL BE VDOT COARSE AGGREGATE #3, 357 OR #5.
- WEIR HEIGHT MAY BE ADJUSTED BY PROJECT OFFICER OR INSPECTOR IN FLOOD PRONE AREAS.
- PAINT 2"x4" WEIR, CLOSED BASKET, AND GUTTER WITH HIGH VISIBILITY INCANDESCENT ORANGE PAINT.
- REMOVE SEDIMENT AFTER EACH RAIN EVENT TO MAINTAIN FUNCTION AND AVOID PREMATURE CLOGGING. IF INLET PROTECTION DOES NOT COMPLETELY DRAIN WITHIN 24 HOURS AFTER A STORM EVENT, IT IS CLOGGED. WHEN THIS OCCURS, REMOVE ACCUMULATED SEDIMENT AND CLEAN, OR REPLACE THE PROTECTION.

CURB INLET PROTECTION

WASHINGTON SUBURBAN SANITARY COMMISSION	APPROVED: <i>[Signature]</i> Chief Engineer	STANDARD DETAIL	S 3.1b
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ARLINGTON COUNTY, VIRGINIA
DEPARTMENT OF ENVIRONMENTAL SERVICES

ISSUED 9/14/2020
DRAWING NO. **3.07-7 (ACG)**



NOTES:

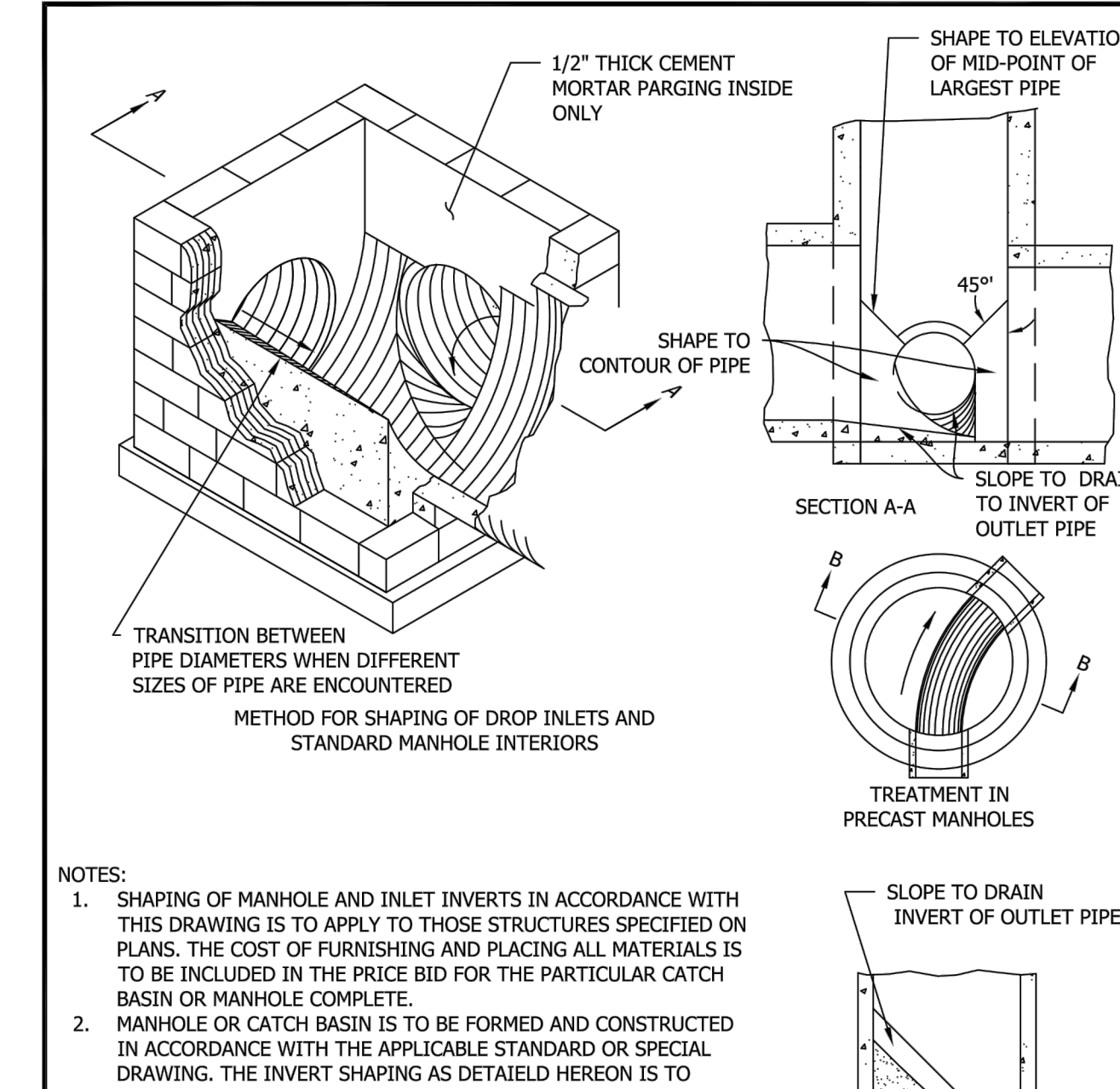
- THIS DETAIL MAY BE USED IN LIEU OF DETAIL S-3.1a ONLY FOR CONNECTIONS TO PRECAST MANHOLES.
- ONLY ONE INSIDE DROP CONNECTION PER MANHOLE WILL BE ALLOWED, UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
- THE DROP FITTING SHALL NOT EXTEND INTO THE AREA THAT IS DEFINED BY THE PROJECTION OF THE MANHOLE ENTRANCE VERTICALLY DOWN TO THE MANHOLE BOTTOM. IF NECESSARY, MANHOLE FRAME, COVER, ONE SECTION, AND STEPS SHALL BE REMOVED AND PLACED TO ALLOW FOR UNOBSTRUCTED ENTRY AND EXIT.
- WHEN INSIDE DROP CONNECTION REPLACES EXISTING OUTSIDE DROP, PROVIDE MECHANICAL PLUG AND FILL ANNUAL SPACE WITH NON-SHRINK GROUT SIMILAR TO DETAIL S-3.5.
- INFLUENT PIPE SLOPE SHALL NOT EXCEED 5%.
- MAXIMUM SIZE OF INFLUENT PIPE IS 8".
- SEE NOTES (1) THRU (9) ON DETAIL S-3.1a

INSIDE DROP CONNECTION FOR PRECAST CONCRETE MANHOLES

WASHINGTON SUBURBAN SANITARY COMMISSION	APPROVED: <i>[Signature]</i> Chief Engineer	STANDARD DETAIL	S 3.1b
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ARLINGTON COUNTY, VIRGINIA
DEPARTMENT OF ENVIRONMENTAL SERVICES

ISSUED 9/14/2020
DRAWING NO. **D-2.1**



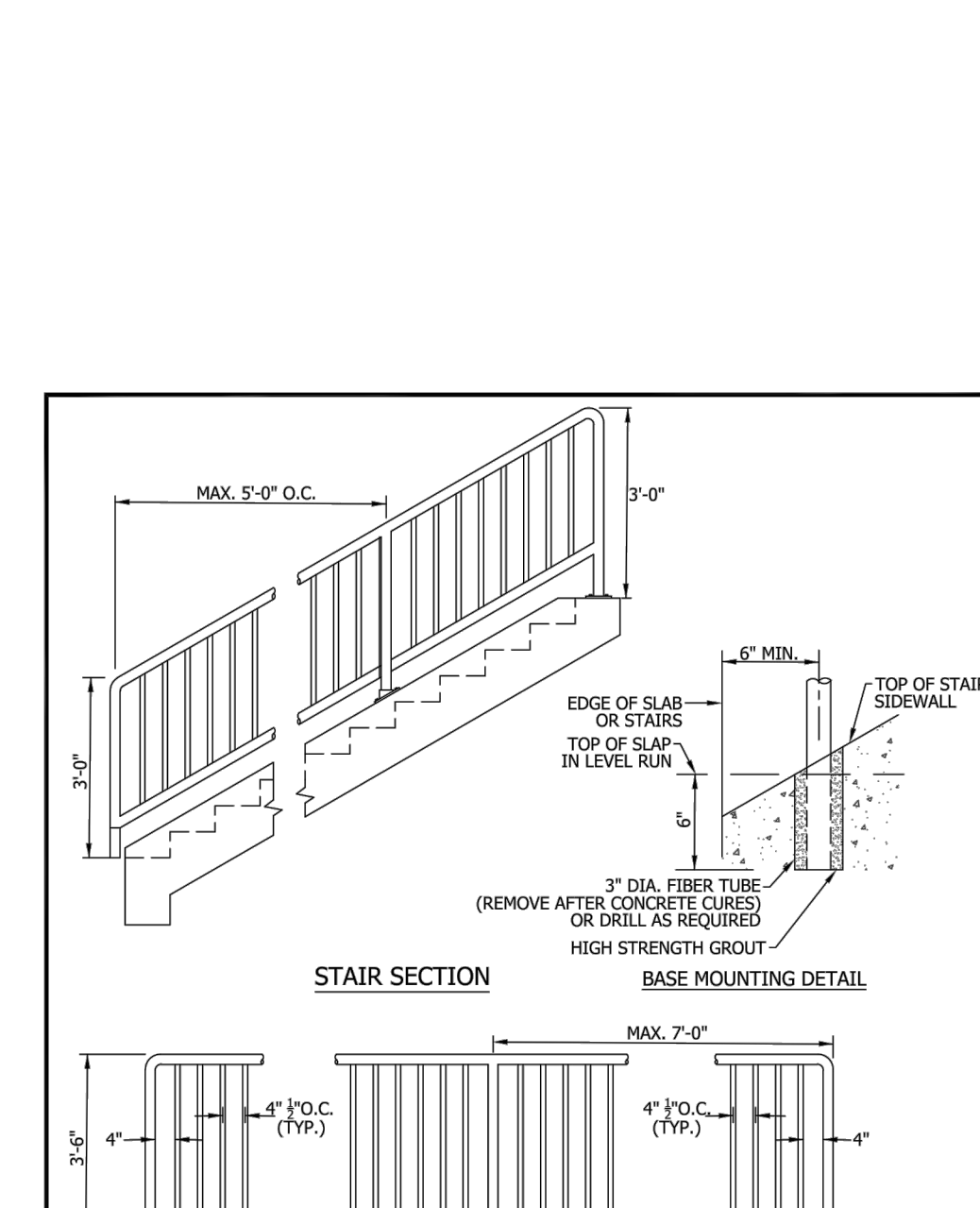
METHOD FOR SHAPING MANHOLE AND BASIN INVERTS

NOTES:

- SHAPING OF MANHOLE AND INLET INVERTS IN ACCORDANCE WITH THIS DRAWING IS TO APPLY TO THOSE STRUCTURES SPECIFIED ON PLANS. THE COST OF FURNISHING AND PLACING ALL MATERIALS IS TO BE INCLUDED IN THE PRICE BID FOR THE PARTICULAR CATCH BASIN OR MANHOLE COMPLETE.
- MANHOLE OR CATCH BASIN IS TO BE FORMED AND CONSTRUCTED IN ACCORDANCE WITH THE APPLICABLE STANDARD OR SPECIAL DRAWING. THE INVERT SHAPING AS DETAILED HEREON IS TO CONSIST OF A PORTLAND CEMENT CONCRETE MIX CONFORMING TO CLASS A3, EXCEPT THAT 25% OF COARSE AGGREGATE MAY BE UP TO 4" IN DIAMETER AND CONSIST OF STONE, BROKEN BRICK, BROKEN CONCRETE, OR BROKEN CONCRETE BLOCK. THE SURFACE SHALL BE LEFT SMOOTH BY MEANS OF HAND TROWELLING. NONE OF THE OF THE COARSE AGGREGATE SHALL REMAIN EXPOSED.
- DETAILS OF INVERT SHAPING AS SHOWN HEREON ARE FOR EXAMPLE PURPOSES ONLY. EACH MANHOLE OR CATCH BASIN IS TO BE SHAPED INDIVIDUALLY TO BEST FIT THE PARTICULAR INLET AND OUTLET CONFIGURATION AND FLOW LINES.

ARLINGTON COUNTY, VIRGINIA
DEPARTMENT OF ENVIRONMENTAL SERVICES

ISSUED 9/14/2020
DRAWING NO. **D-2.1**



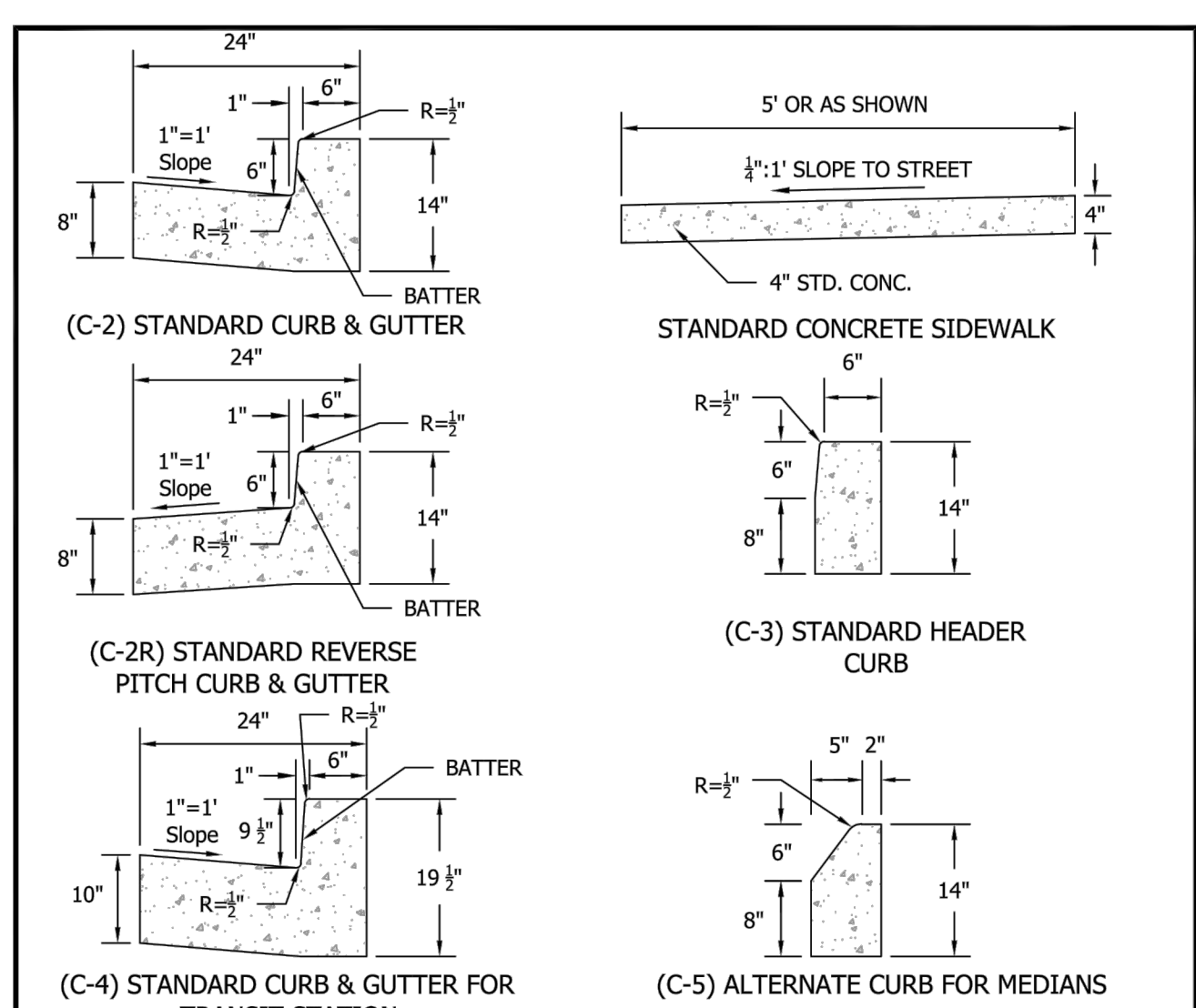
PIPE HANDRAIL

NOTES:

- REFER TO SECTION 0550 FOR HANDRAIL SPECIFICATIONS.
- FITTINGS SHALL BE USED OR JOINTS MAY BE WELDED.
- RAILS SHALL BE STANDARD WEIGHT AND POST SHALL BE EXTRA STRONG STEEL PIPE.
- HANDRAILS TO BE SHOP GALVANIZED OR PAINTED IN ACCORDANCE WITH SECTION 09900.

ARLINGTON COUNTY, VIRGINIA
DEPARTMENT OF ENVIRONMENTAL SERVICES

ISSUED 9/14/2020
DRAWING NO. **R-3.1**



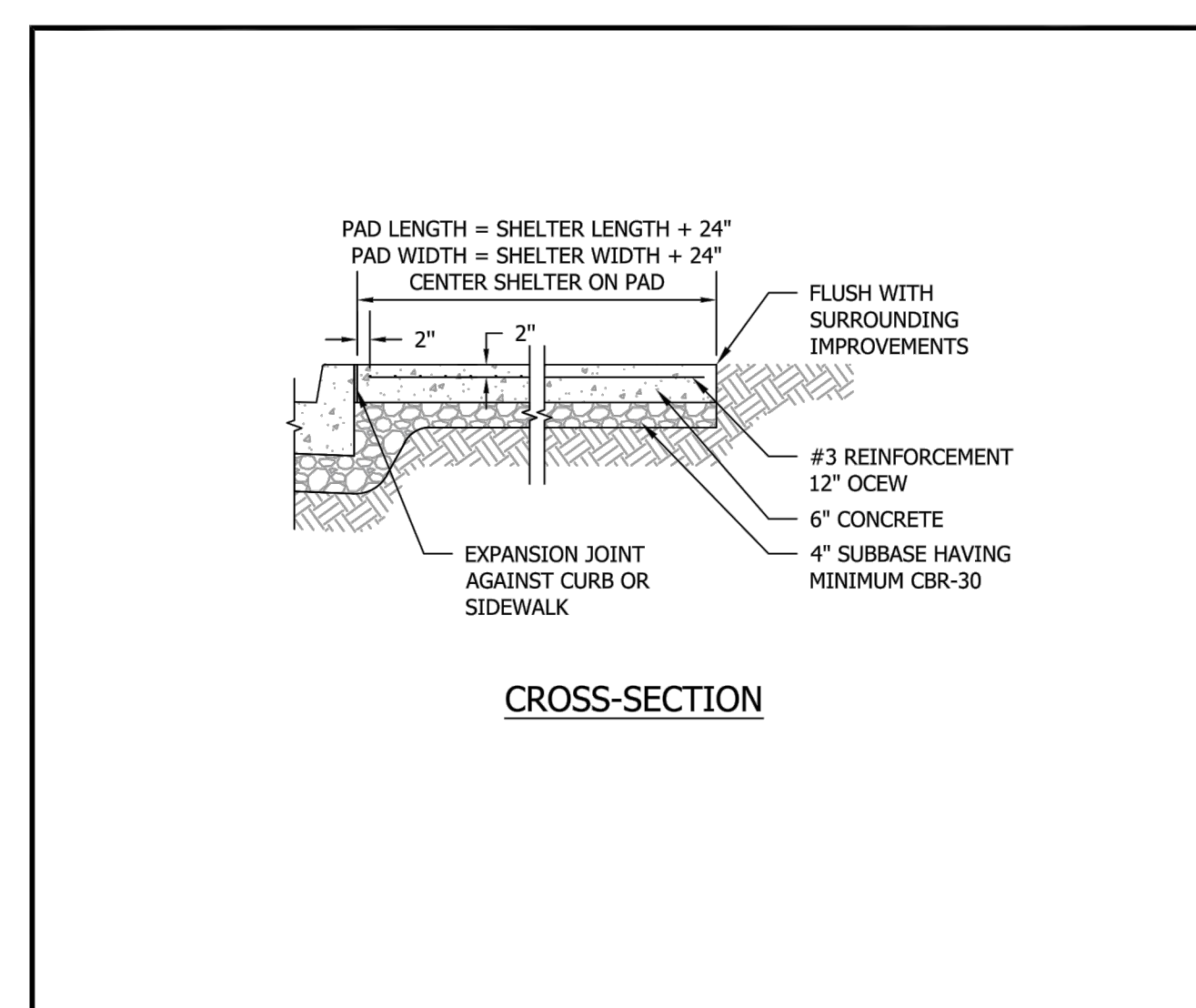
CONCRETE CURB & GUTTER AND SIDEWALK

NOTES:

- SECTION C-3 IS TO BE USED ONLY WITH RIGID TYPE PAVEMENT UNLESS OTHERWISE DIRECTED IN WRITING OR WHEN SHOWN ON APPROVED PLANS.
- EXPANSION JOINTS IN HEADER CURB AND STANDARD CURB AND GUTTER SHALL BE 40' APART OR AT EXPANSION JOINTS IN CONCRETE PAVEMENT.
- EXPANSION JOINTS MAY BE OMITTED IF 1/8" JOINTS ARE PLACED EVERY 10' OF LESS.
- EXPANSION JOINTS IN THE SIDEWALK SHALL BE 40' APART. IF ADJACENT TO CONCRETE CURB, EXPANSION JOINTS SHALL MATCH JOINT OF CURB. AN EXPANSION JOINT SHALL BE PLACED BETWEEN CURB AND SIDEWALK.
- SEE DRAWING R-2.2 FOR DETAIL OF SIDEWALK STRESS COLUMN TO BE PLACED UNDER SIDEWALK WHEN PLACED ADJACENT TO BACK OF CURB.
- SEE ARLINGTON COUNTY SPECIFICATION SECTIONS 02611 AND 03100 FOR MATERIAL SPECS.
- PROVIDE 6" MINIMUM AGGREGATE BASE HAVING CBR-30 UNDER CURB AND GUTTER.
- PROVIDE 3" MINIMUM AGGREGATE BASE HAVING CBR-30 UNDER SIDEWALK.
- WHENEVER CURB ABUTS RIGID PAVEMENT, PROVIDE LONGITUDINAL JOINT PER VDOT PR-2.
- SECTION C-5 TO BE USED WHEN BICYCLE LANE RUNS ALONG A MEDIAN.

ARLINGTON COUNTY, VIRGINIA
DEPARTMENT OF ENVIRONMENTAL SERVICES

ISSUED 9/14/2020
DRAWING NO. **R-2.0**



BUS SHELTER PAD

CROSS-SECTION

PAD LENGTH = SHELTER LENGTH + 24"
PAD WIDTH = SHELTER WIDTH + 24"
CENTER SHELTER ON PAD

FLUSH WITH SURROUNDING IMPROVEMENTS

#3 REINFORCEMENT 12" OCEW

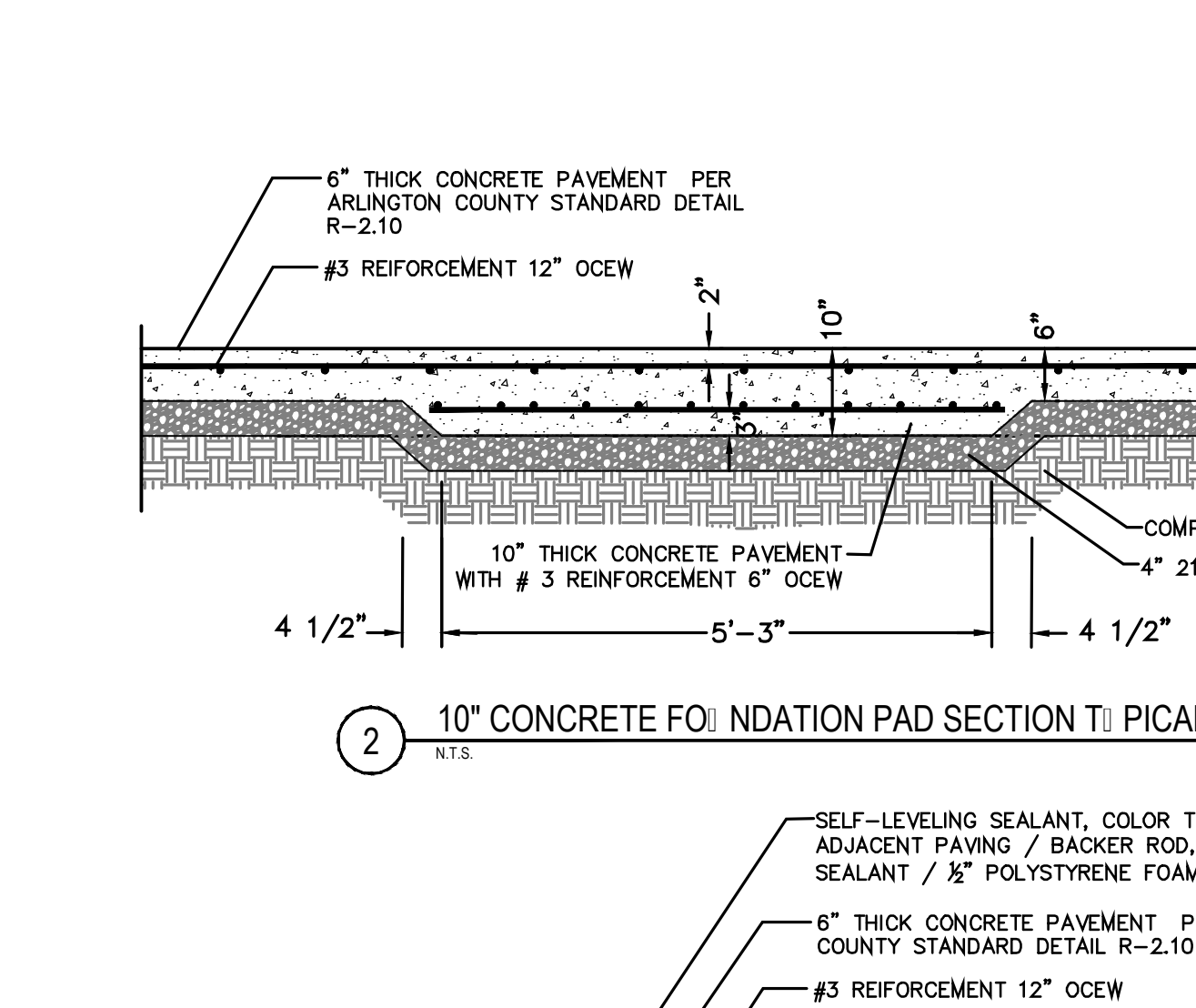
6" CONCRETE

4" SUBBASE HAVING MINIMUM CBR-30

EXPANSION JOINT AGAINST CURB OR SIDEWALK

ARLINGTON COUNTY, VIRGINIA
DEPARTMENT OF ENVIRONMENTAL SERVICES

ISSUED 9/14/2020
DRAWING NO. **R-2.10**



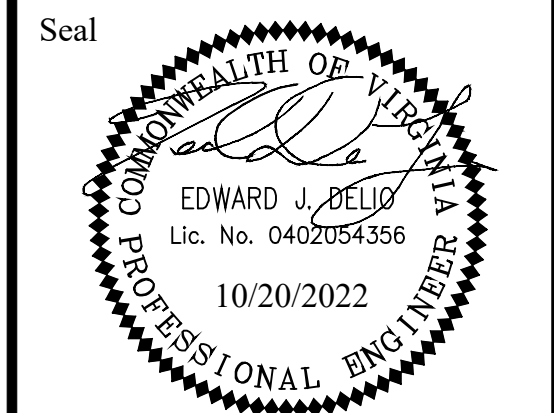
10" CONCRETE FOUNDATION PAD SECTION TYPICAL

NOTES:

- CONCRETE SHALL BE USED CLASS A3.
- EXPANSION JOINT ON THE PAVEMENT SHALL BE 40' APART. LOCATION OF THE JOINT TO BE COORDINATED WITH THE PROJECT OFFICER.
- AN EXPANSION JOINT SHALL BE PLACED BETWEEN CURB AND PAVEMENT.
- COORDINATE WITH THE PROJECT OFFICER FOR THE FINISH SURFACE ON TOP OF PAVEMENT.

ARLINGTON COUNTY, VIRGINIA
DEPARTMENT OF ENVIRONMENTAL SERVICES

ISSUED 9/14/2020
DRAWING NO. **R-2.10**



Approvals	Date
Design Team Engineer Supervisor	
Construction Management Supervisor	
Water, Sewer, Streets Bureau Chief	
Transportation Director	
Project Manager	

Revisions	Date

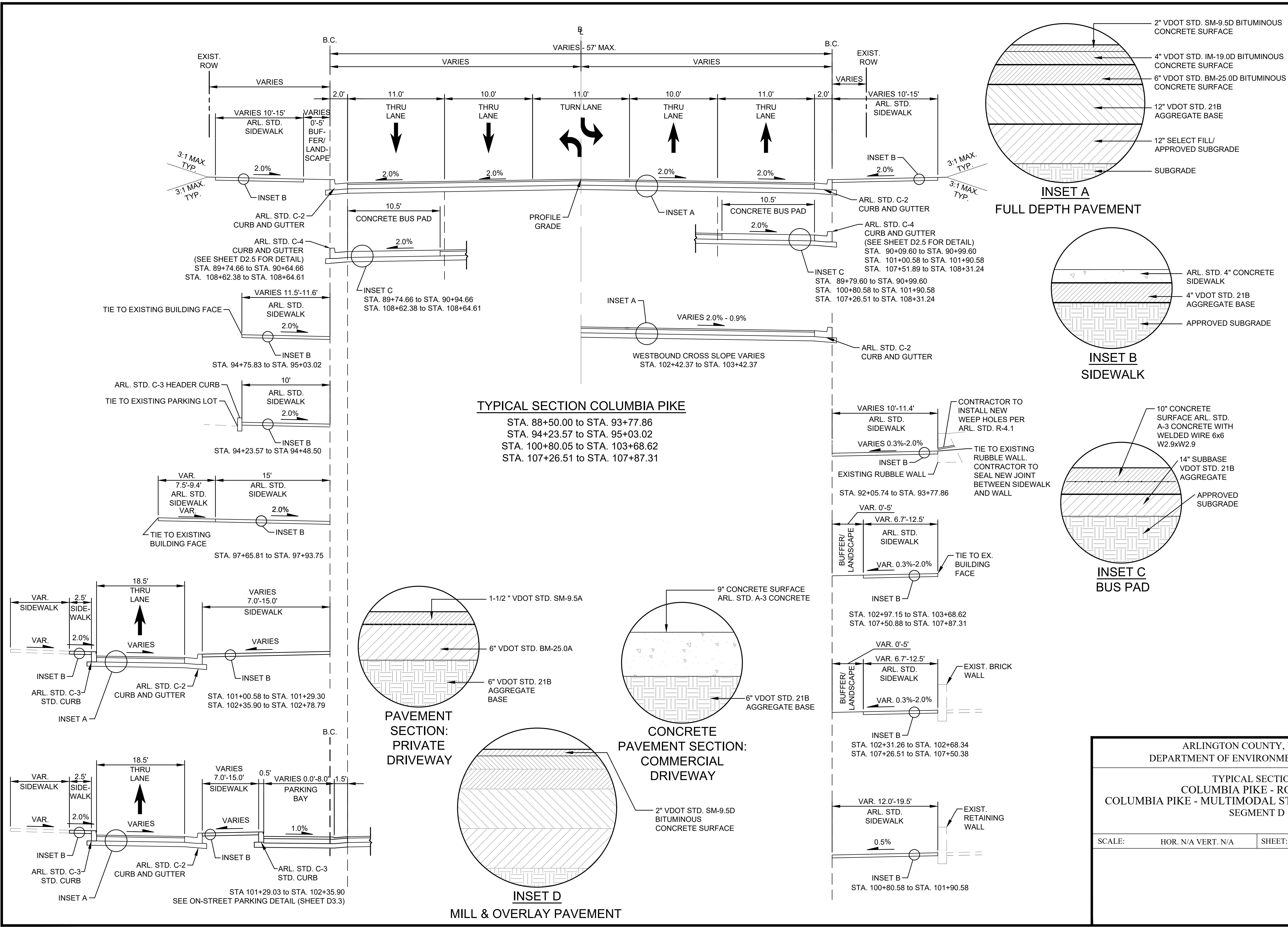
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Drawn: PNH
Checked: EJD
Miss Utility Transmittal #:

Filename: 010073-D-GENERALNOTES.dwg
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Plotted: October 20, 2022
Plotted by: Miguel Tyshing

ARLINGTON COUNTY, VIRGINIA
DEPARTMENT OF ENVIRONMENTAL SERVICES

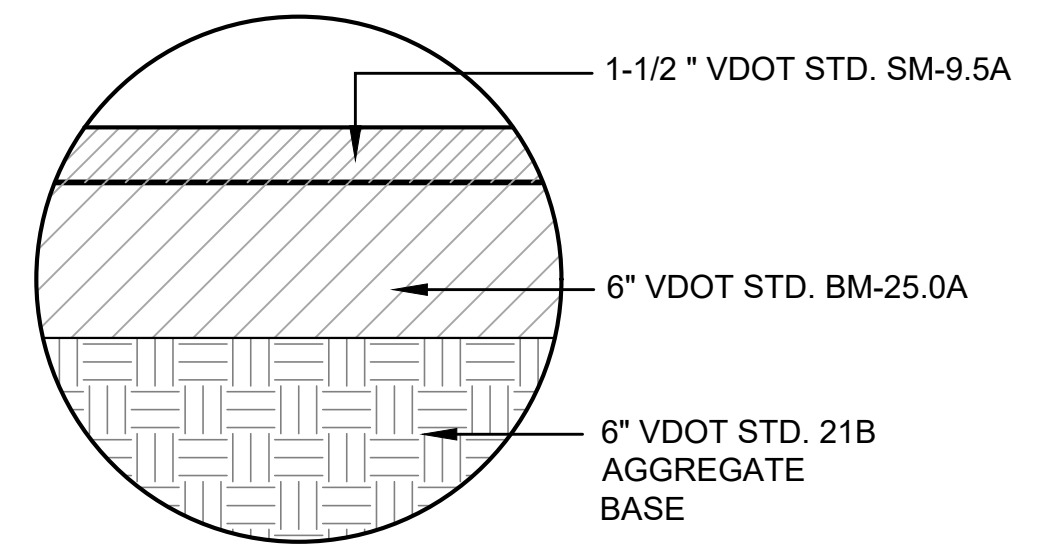
GENERAL NOTES AND DETAILS
COLUMBIA PIKE - ROUTE 244
COLUMBIA PIKE - MULTIMODAL STREET IMPROVEMENTS
SEGMENT D

SCALE: HOR. N/A VERT. N/A SHEET: D2.5 of D2.5

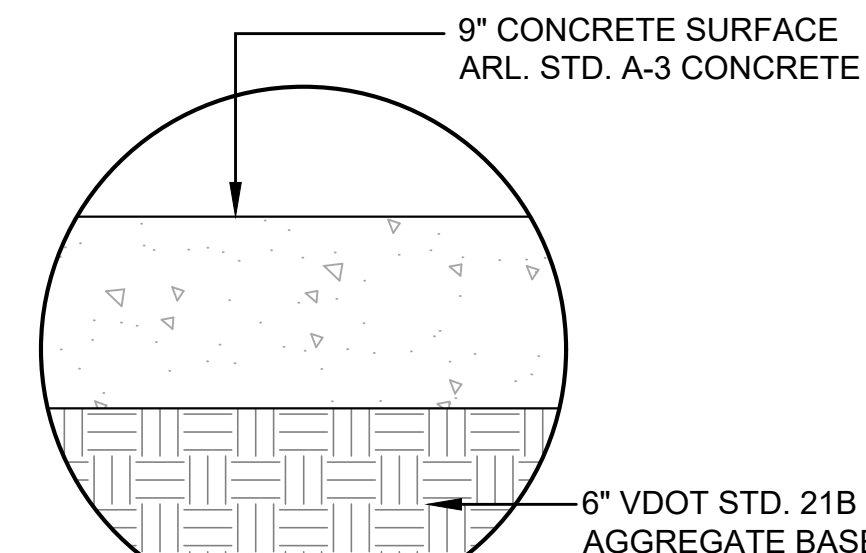


TYPICAL SECTION COLUMBIA PIKE

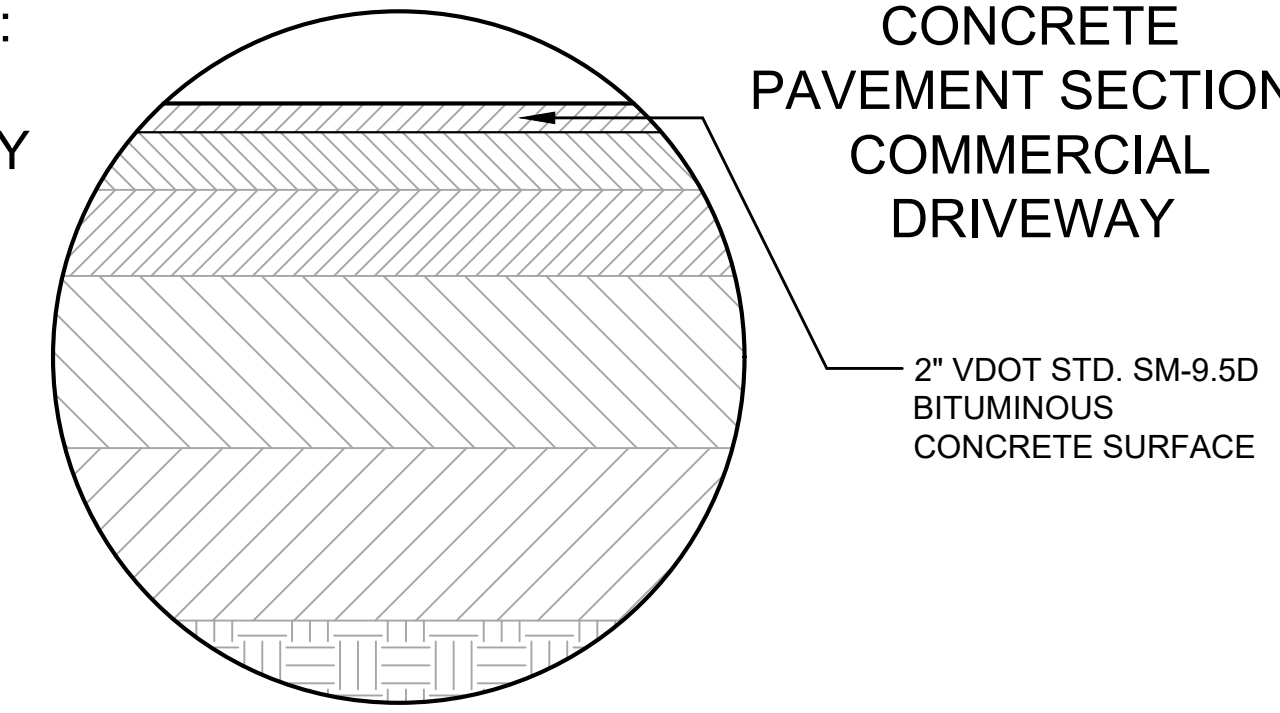
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 STA. 94+23.57 to STA. 95+03.02
 STA. 100+80.05 to STA. 103+68.62
 STA. 107+26.51 to STA. 107+87.31



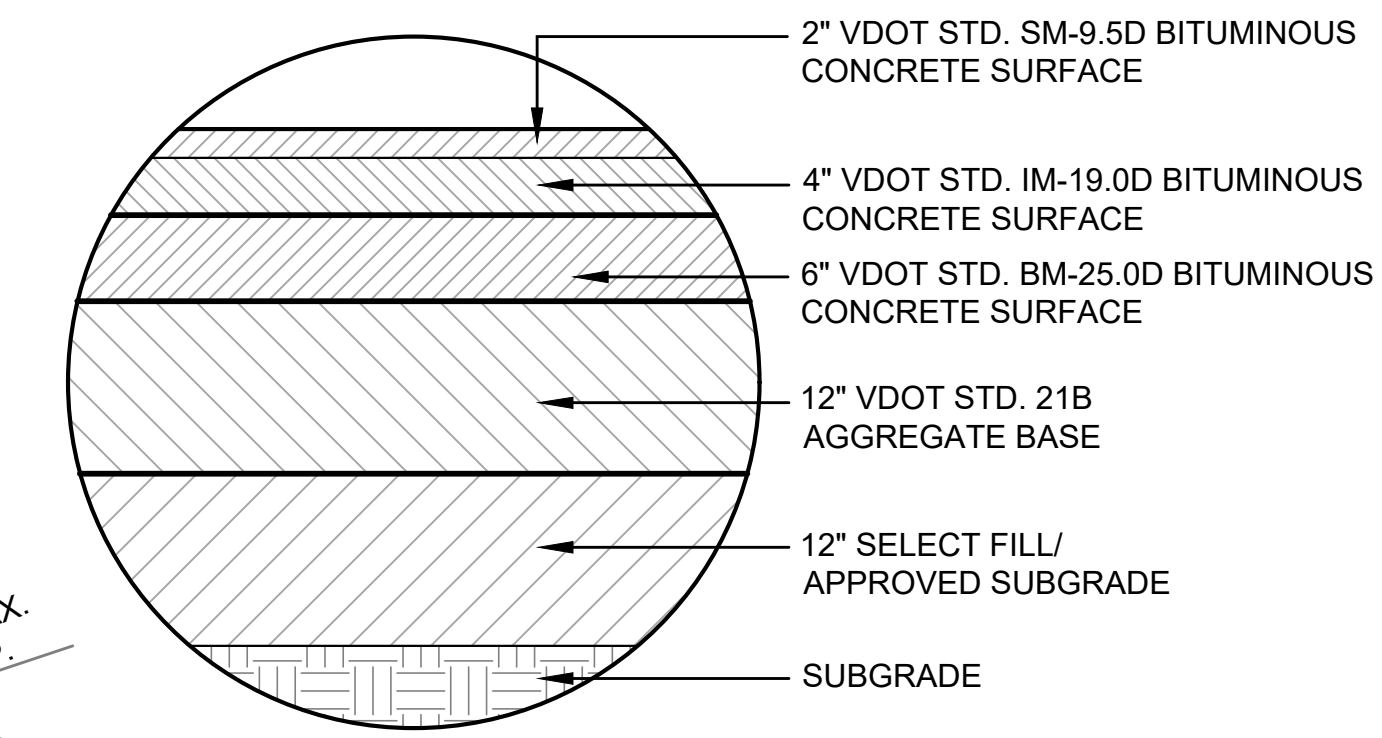
PAVEMENT SECTION: PRIVATE DRIVEWAY



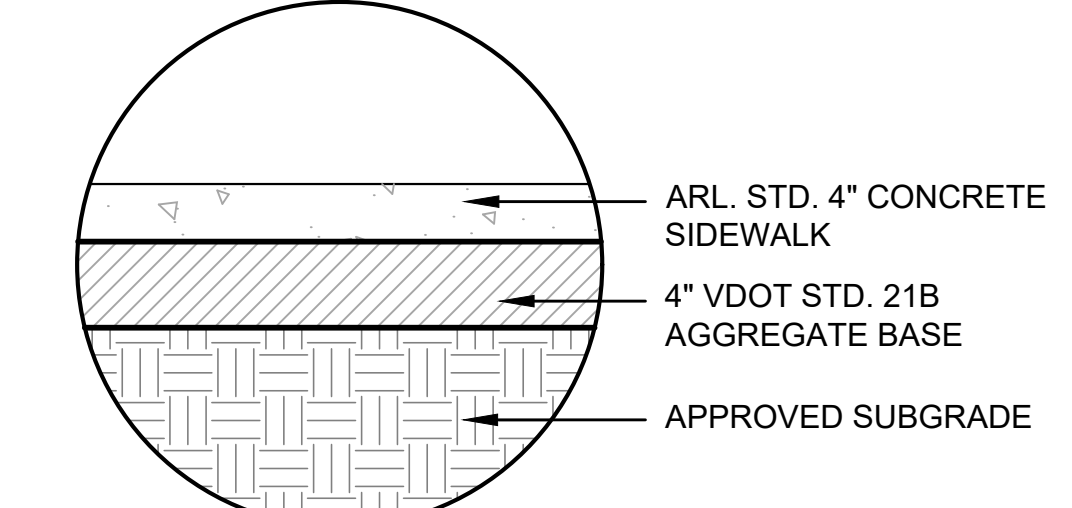
CONCRETE PAVEMENT SECTION: COMMERCIAL DRIVEWAY



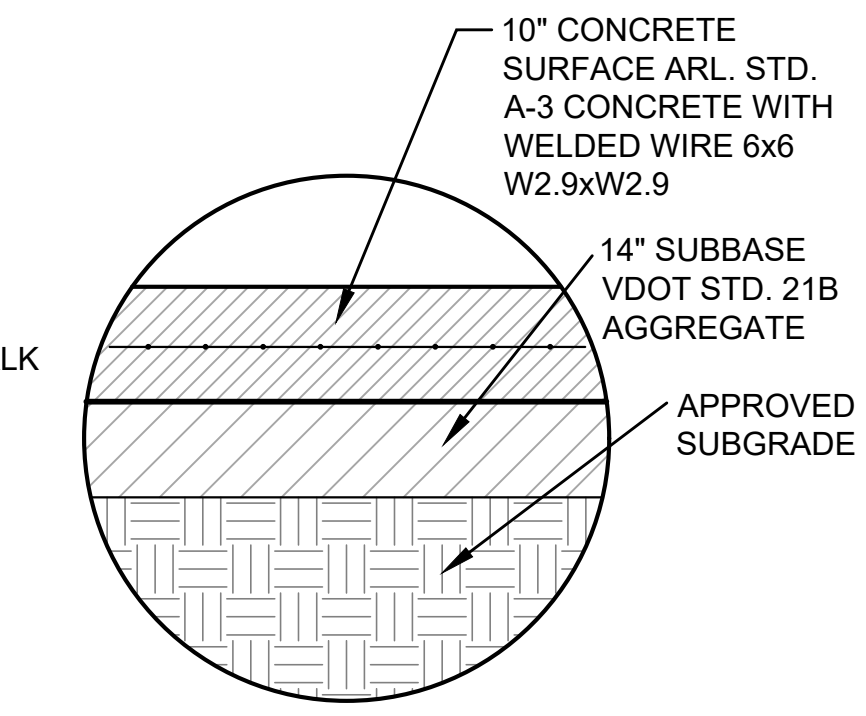
MILL & OVERLAY PAVEMENT



INSET A FULL DEPTH PAVEMENT



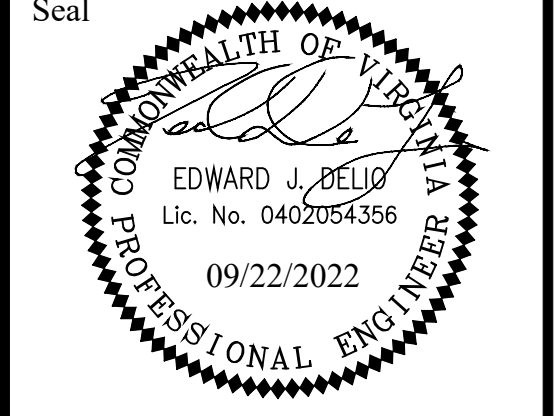
INSET B SIDEWALK



INSET C BUS PAD

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 Engineering Bureau
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 11400 Commerce Park Drive, Suite 400
 Reston, Virginia 20191
 Phone: 703-674-1300
 Fax: 703-674-1300



Approvals _____ Date _____

Design Team Engineer Supervisor _____

Construction Management Supervisor _____

Water, Sewer, Streets Bureau Chief _____

Transportation Director _____

Project Manager _____

Revisions _____ Date _____

Designed: TEC
 Drawn: PNH
 Checked: EJD
 Miss Utility Transmittal #: _____

Filename: 010073-D-TYP-SEC.dwg
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 Plotted: September 22, 2022
 Plotted by: Ted.DeLio

ARLINGTON COUNTY, VIRGINIA
 DEPARTMENT OF ENVIRONMENTAL SERVICES

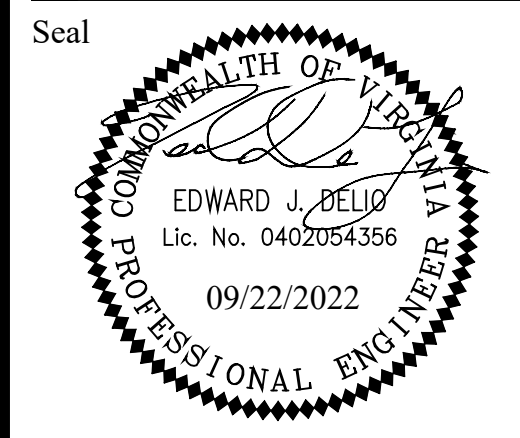
TYPICAL SECTIONS
 COLUMBIA PIKE - ROUTE 244
 COLUMBIA PIKE - MULTIMODAL STREET IMPROVEMENTS
 SEGMENT D

SCALE: HOR. N/A VERT. N/A SHEET: D3.1 of D3.9

ARLINGTON VIRGINIA
 DEPARTMENT OF ENVIRONMENTAL SERVICES

Rud D. Araya
 LUIS ARAYA
 BUREAU CHIEF, DES - DEVELOPMENT SERVICES

3/7/2023
 APPROVAL DATE



Seal

Approvals _____ Date _____

Design Team Engineer Supervisor _____

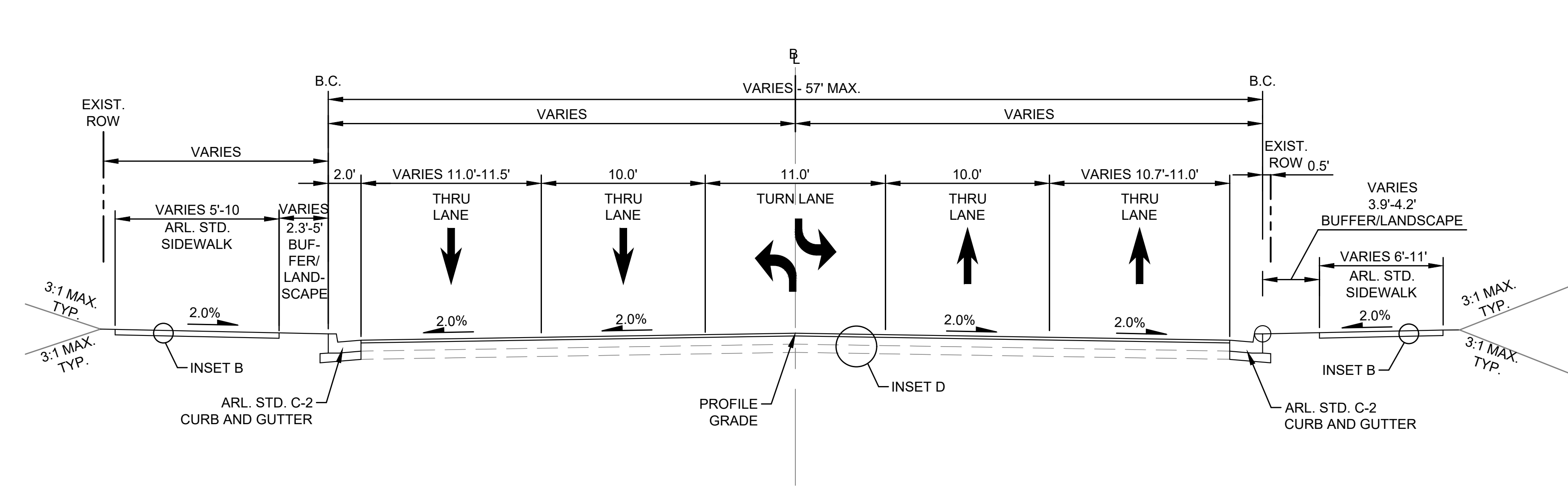
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Water, Sewer, Streets Bureau Chief _____

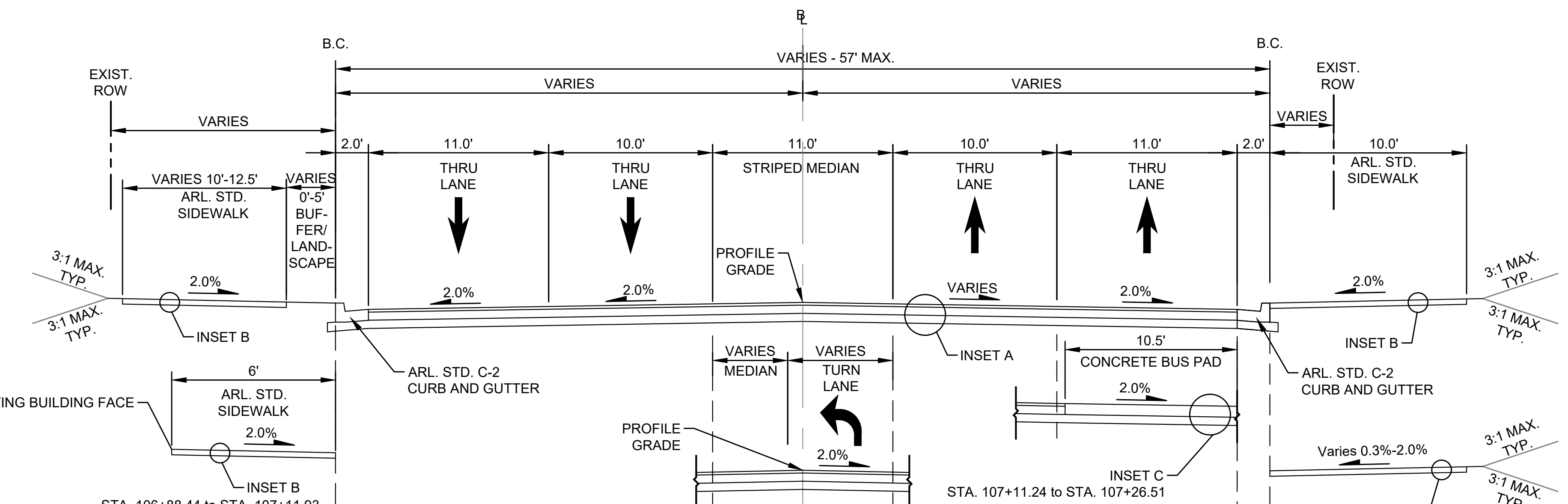
Transportation Director _____

Project Manager _____

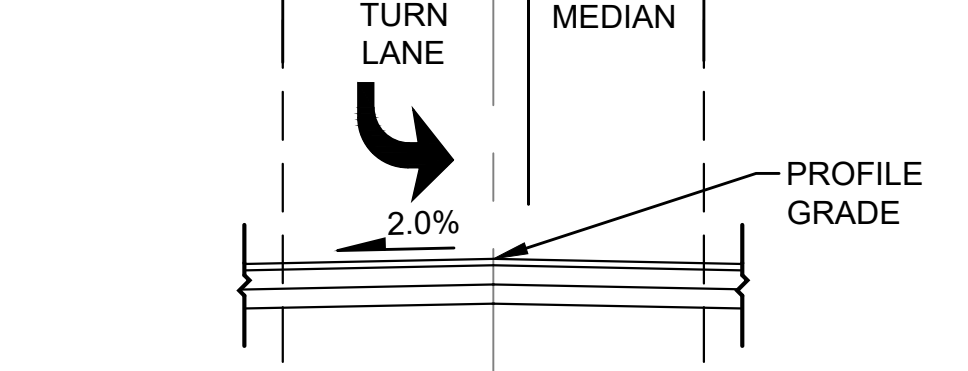
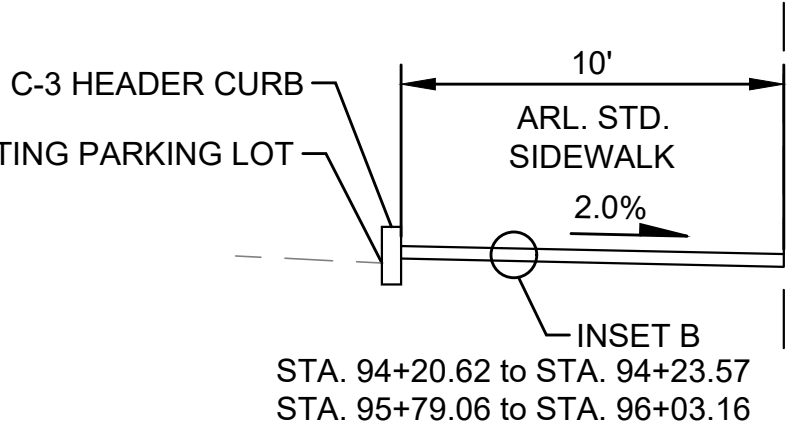
Revisions _____ Date _____



TYPICAL SECTION COLUMBIA PIKE
 STA. 88+30.00 to STA. 88+50.00

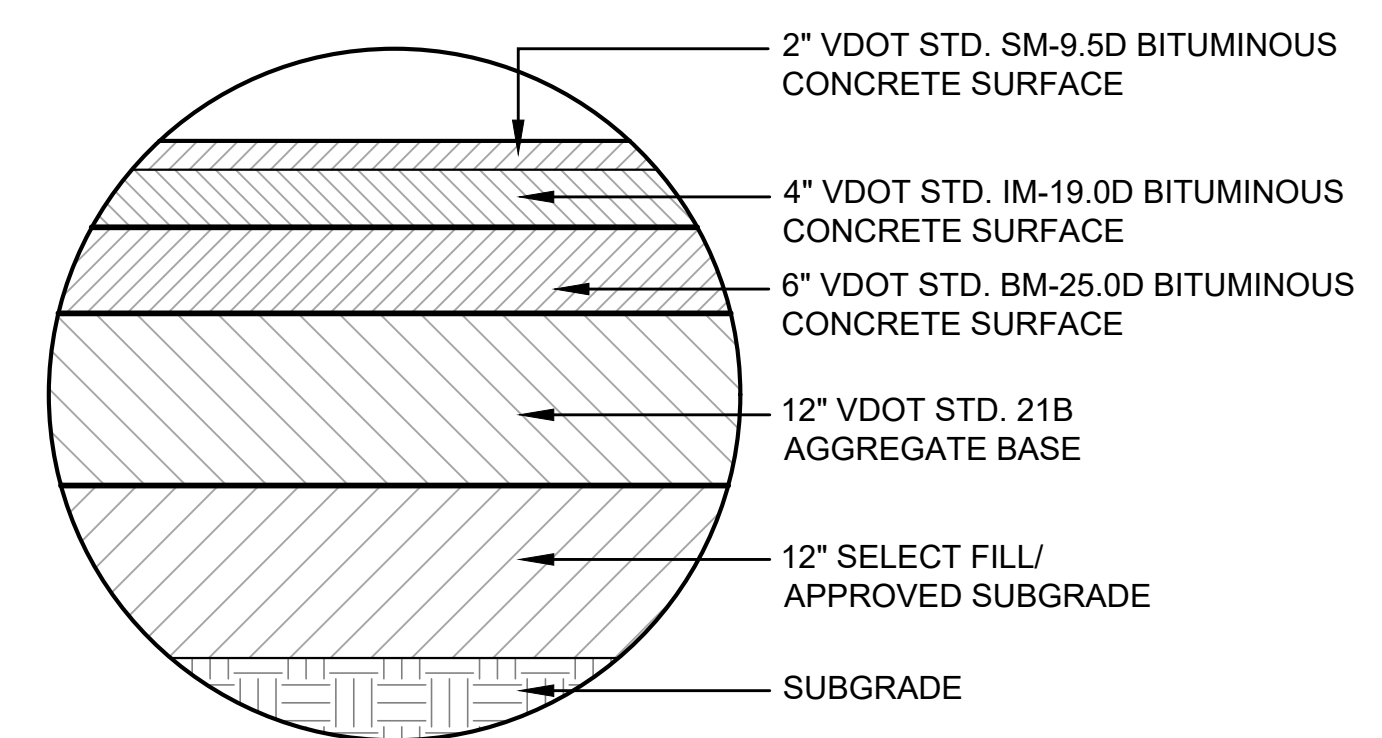


TYPICAL SECTION COLUMBIA PIKE
 STA. 106+88.44 to STA. 107+26.51

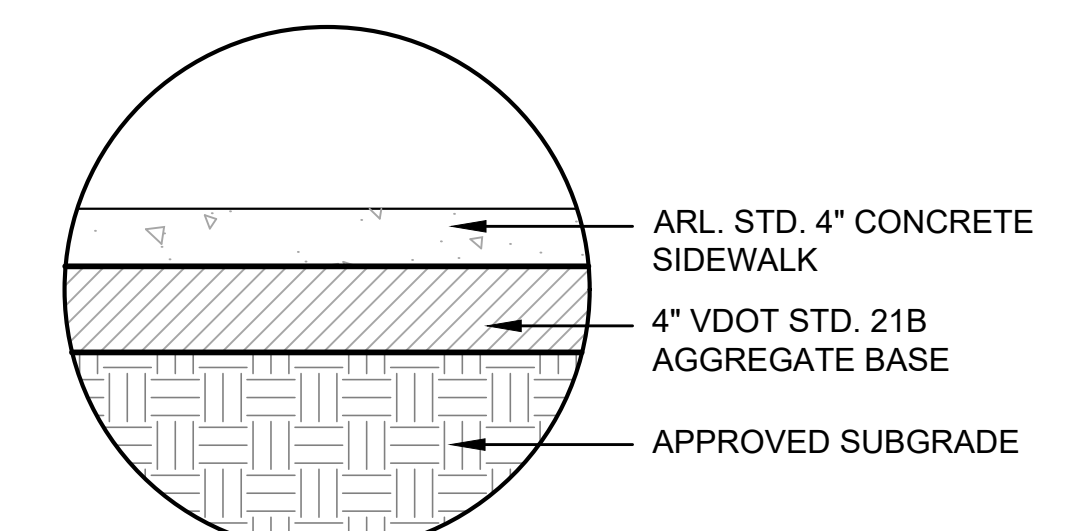


TYPICAL SECTION COLUMBIA PIKE
 STA. 95+78.93 to STA. 96+18.45

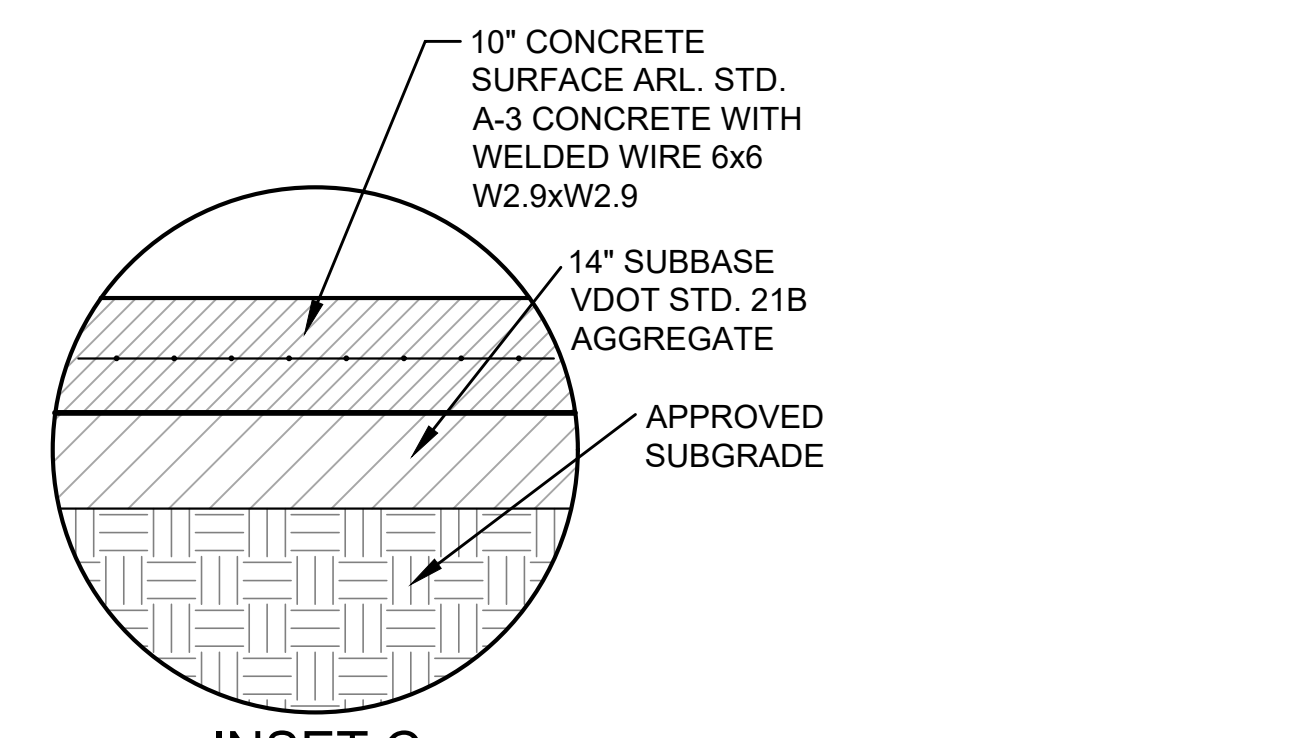
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 STA. 93+77.86 to STA. 94+23.57
 STA. 95+79.06 to STA. 96+18.45
 STA. 106+88.44 to STA. 107+26.51



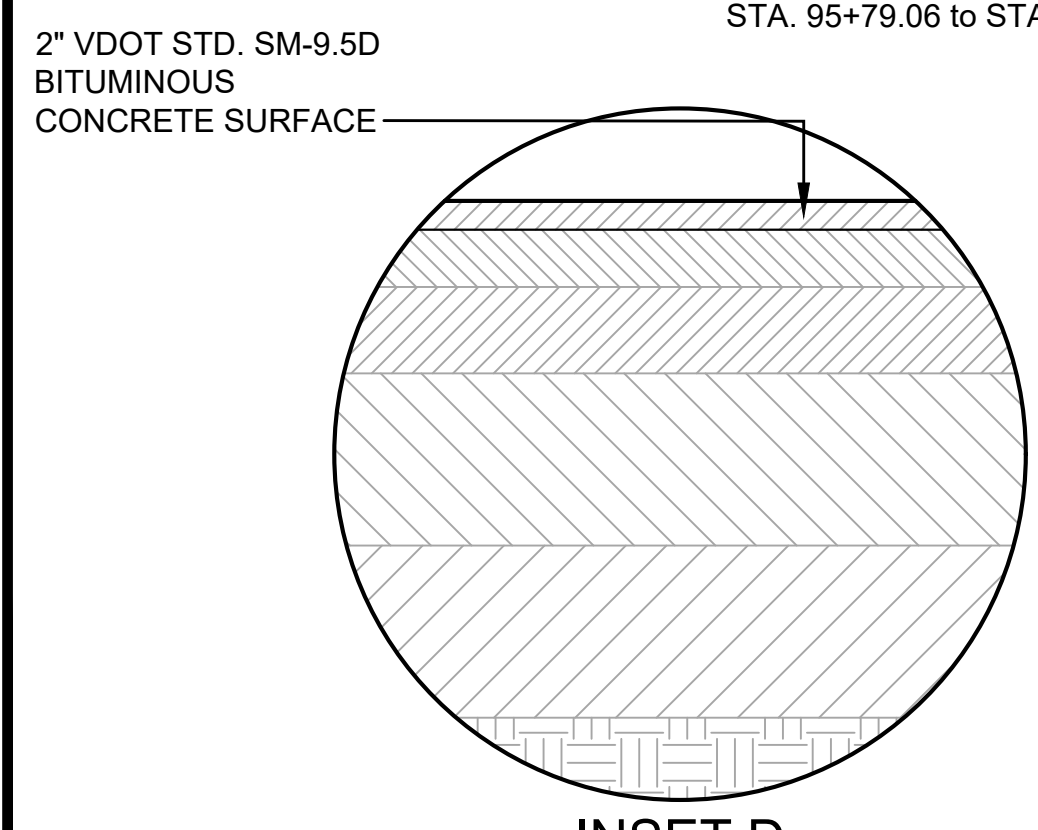
INSET A
 FULL DEPTH PAVEMENT



INSET B
 SIDEWALK



INSET C
 BUS PAD

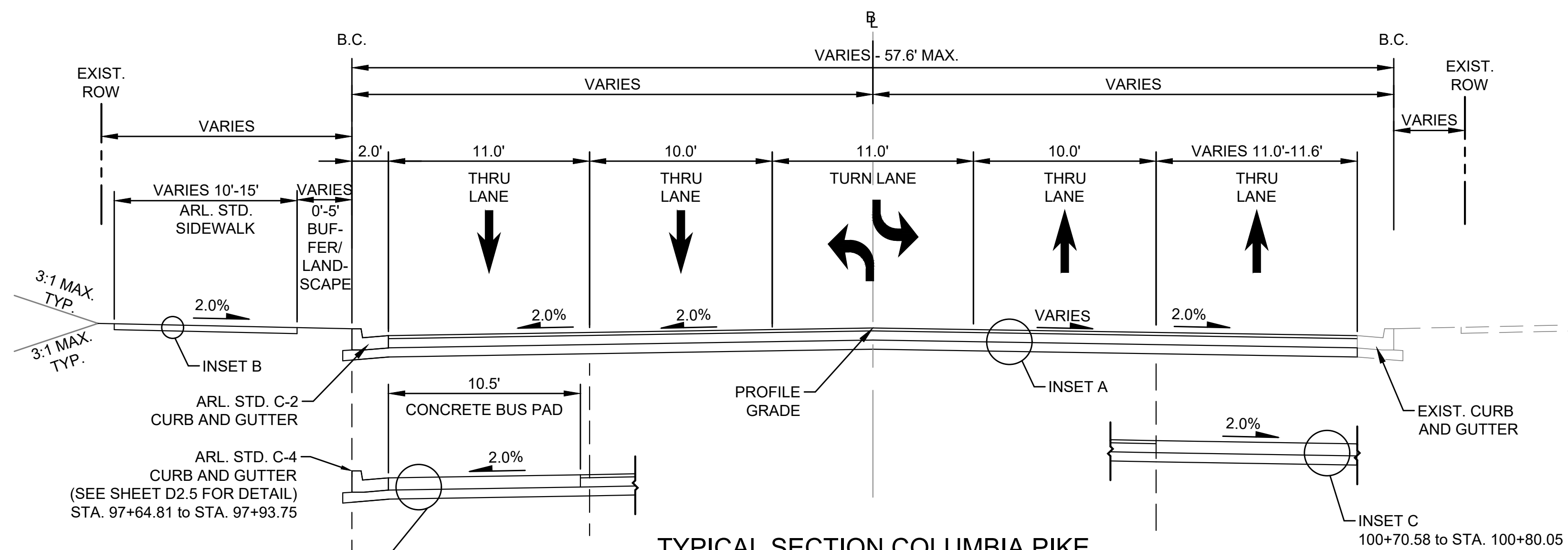


INSET D
 MILL & OVERLAY PAVEMENT

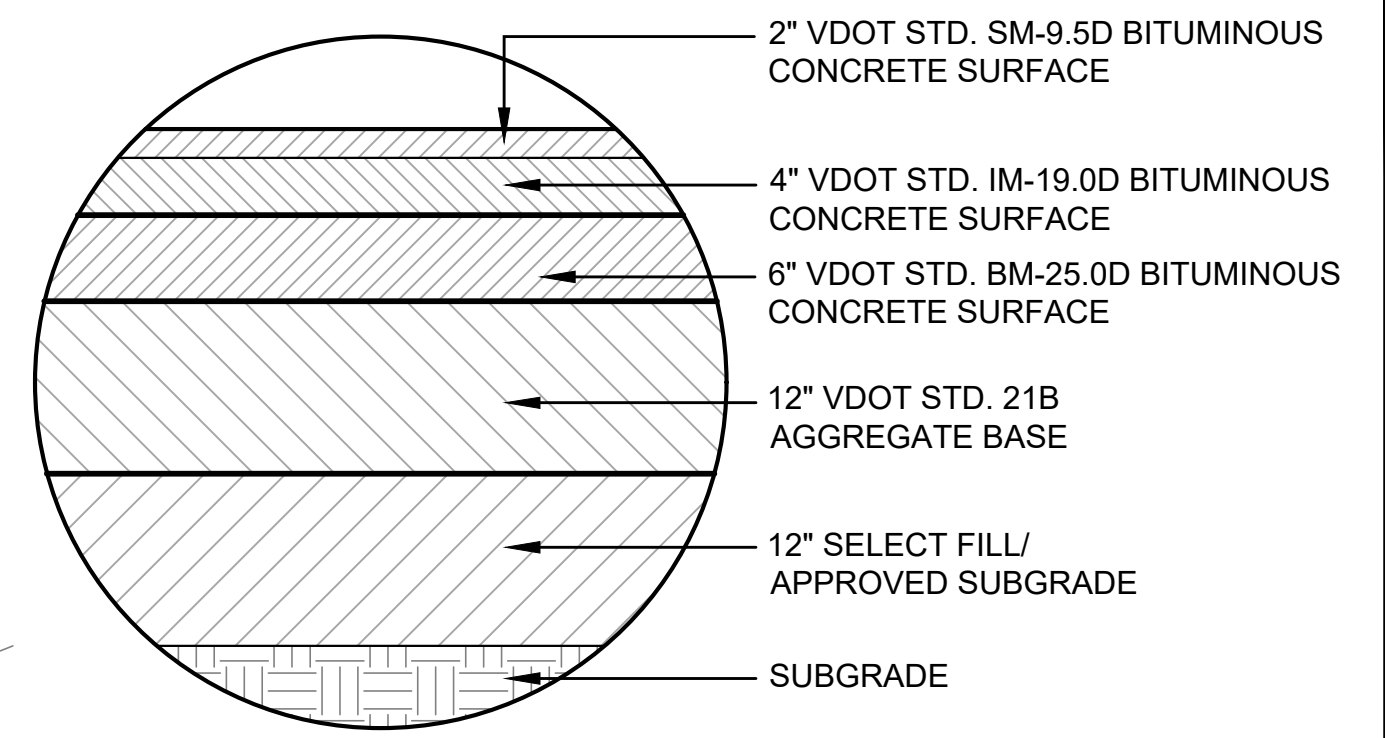
ARLINGTON COUNTY, VIRGINIA
 DEPARTMENT OF ENVIRONMENTAL SERVICES

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

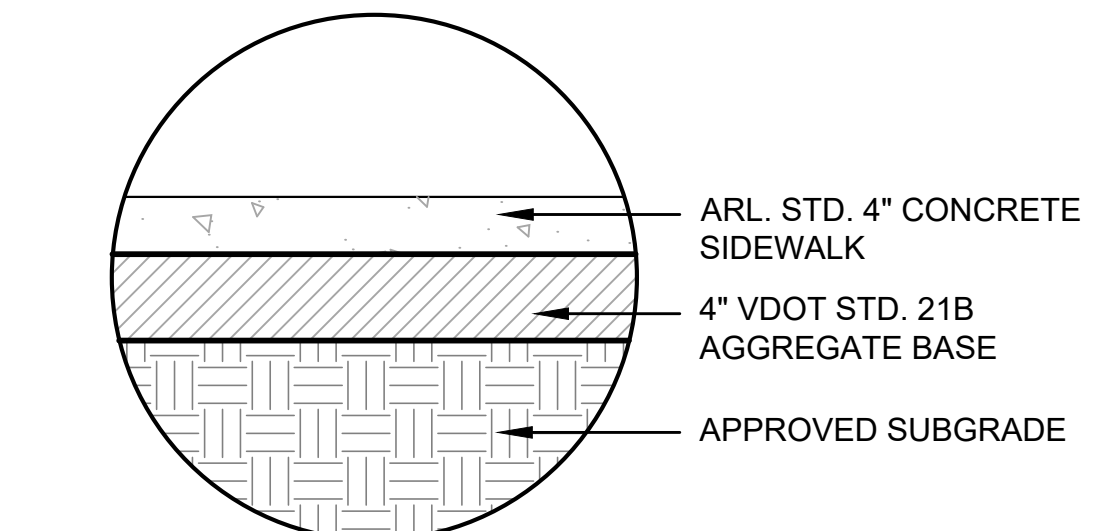
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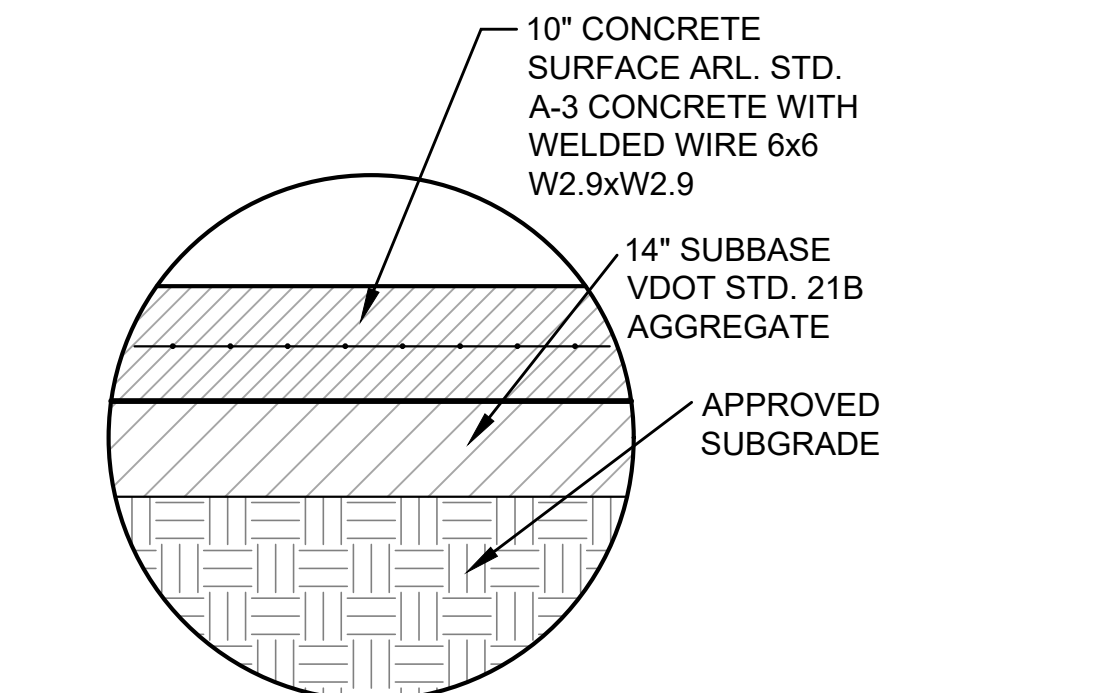
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 STA. 97+64.81 to STA. 100+80.05



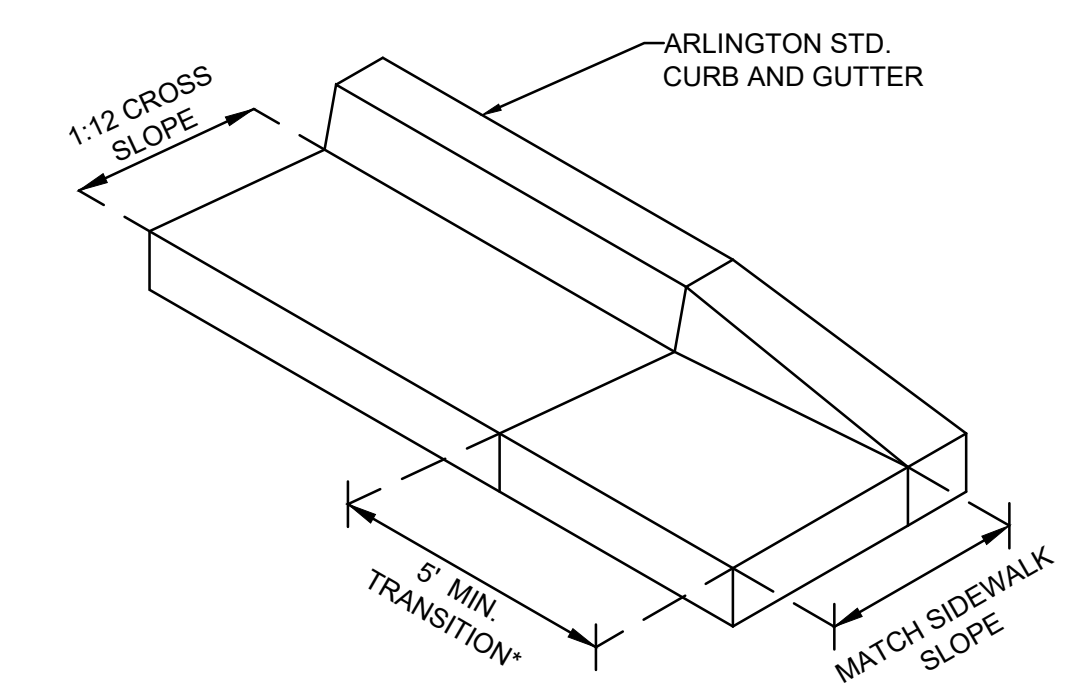
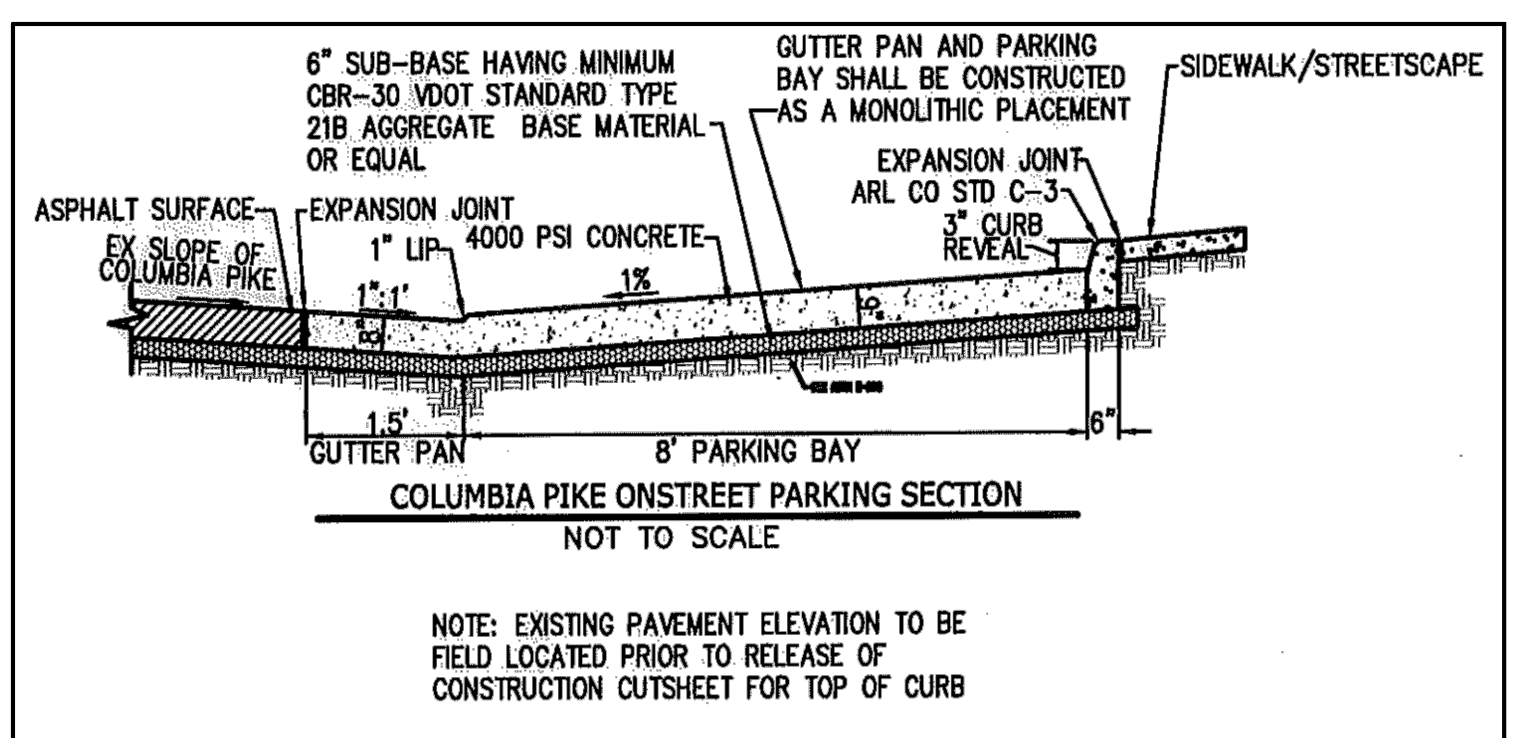
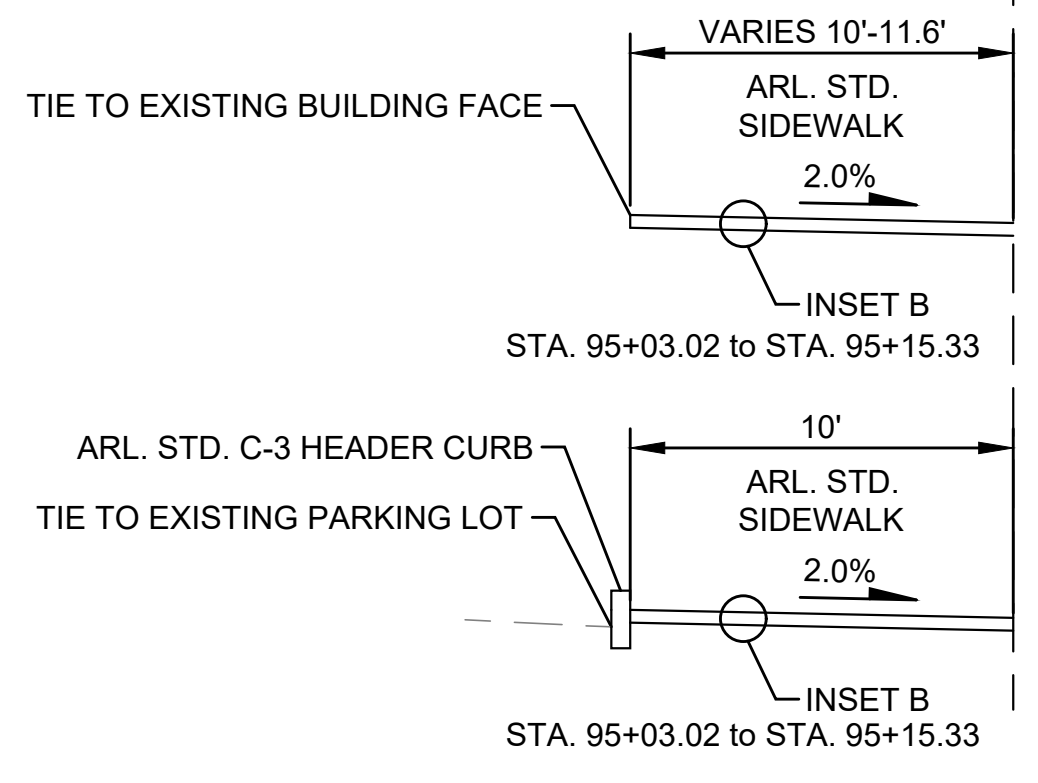
INSET A
 FULL DEPTH PAVEMENT



INSET B
 SIDEWALK



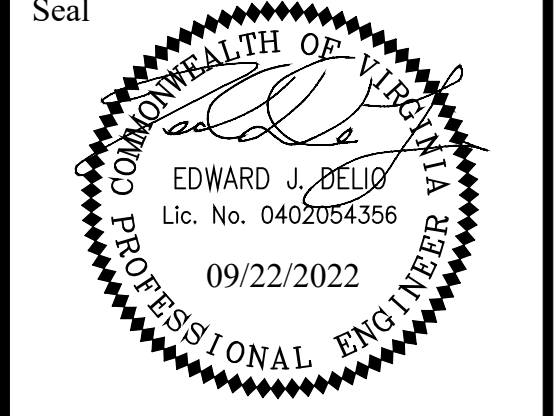
INSET C
 BUS PAD



ENTRANCE CURB & GUTTER TRANSITION DETAIL
 * - TRANSITION LENGTH MAY VARY BASED ON DRIVEWAY GRADES. CONTRACTOR TO ENSURE POSITIVE DRAINAGE ALONG FLOW LINE

ARLINGTON VIRGINIA
 DEPARTMENT OF ENVIRONMENTAL SERVICES
 Facilities & Engineering Division
 Engineering Bureau
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 Reston, Virginia 20191
 Phone: 703-674-1300
 Fax: 703-674-1300



Approvals	Date
Design Team Engineer Supervisor	
Construction Management Supervisor	
Water, Sewer, Streets Bureau Chief	
Transportation Director	
Project Manager	
Revisions	Date

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

Filename: 010073-D-TYP-SEC.dwg
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 Plotted: September 22, 2022
 Plotted by: Ted.DeLio

ARLINGTON COUNTY, VIRGINIA
 DEPARTMENT OF ENVIRONMENTAL SERVICES

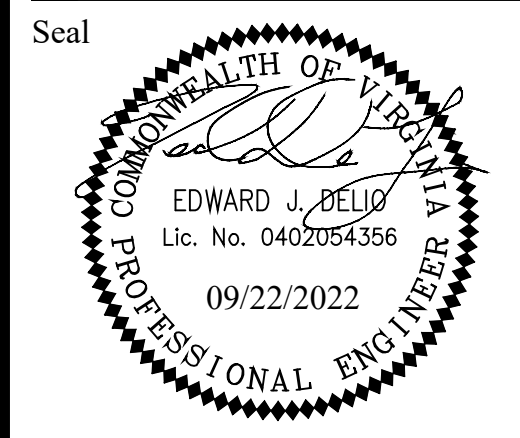
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 COLUMBIA PIKE - ROUTE 244
 COLUMBIA PIKE - MULTIMODAL STREET IMPROVEMENTS
 SEGMENT D

SCALE: HOR. N/A VERT. N/A SHEET: D3.3 of D3.9

ARLINGTON VIRGINIA
 DEPARTMENT OF ENVIRONMENTAL SERVICES

Ted DeLio
 BUREAU CHIEF, DES. DEVELOPMENT SERVICES

3/7/2023
 APPROVAL DATE



Approvals _____ Date _____

Design Team Engineer Supervisor _____

Construction Management Supervisor _____

Water, Sewer, Streets Bureau Chief _____

Transportation Director _____

Project Manager _____

Revisions _____ Date _____

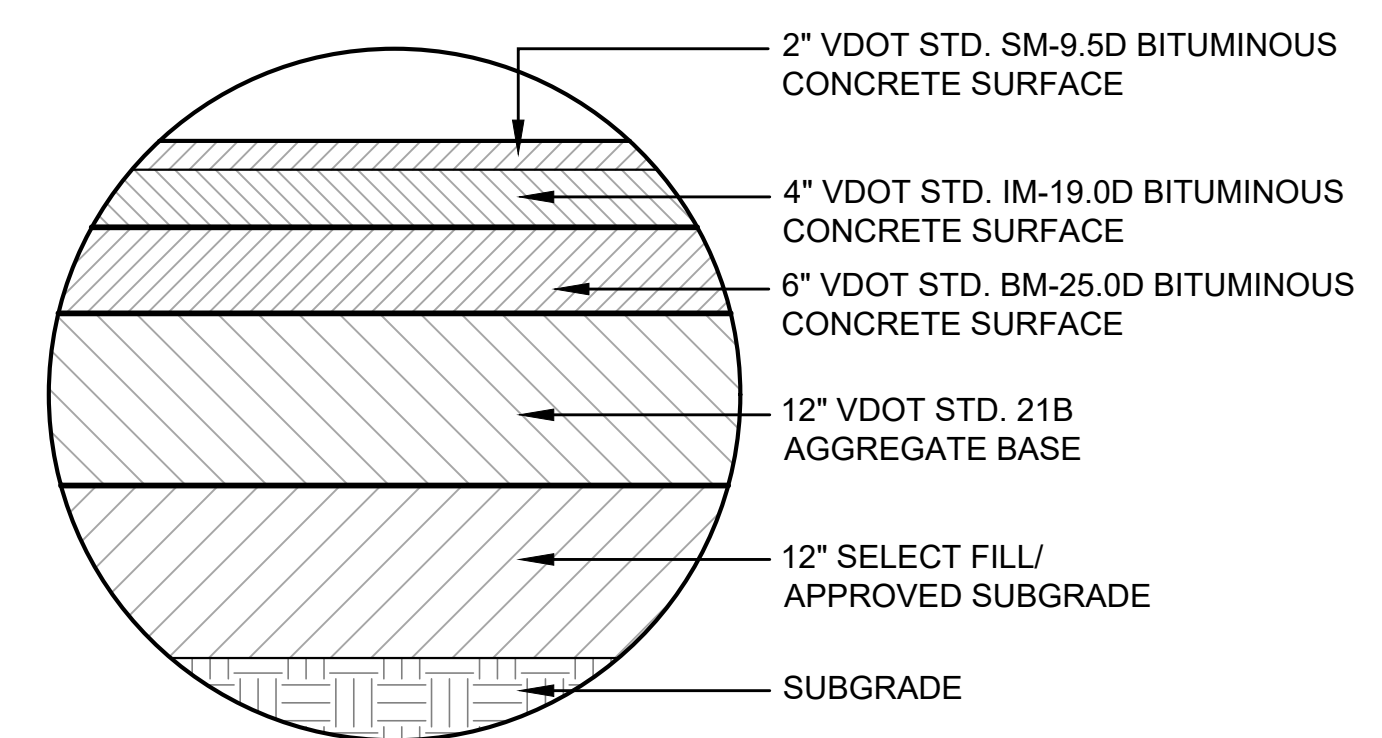
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 Plotted by: Ted.DeLio

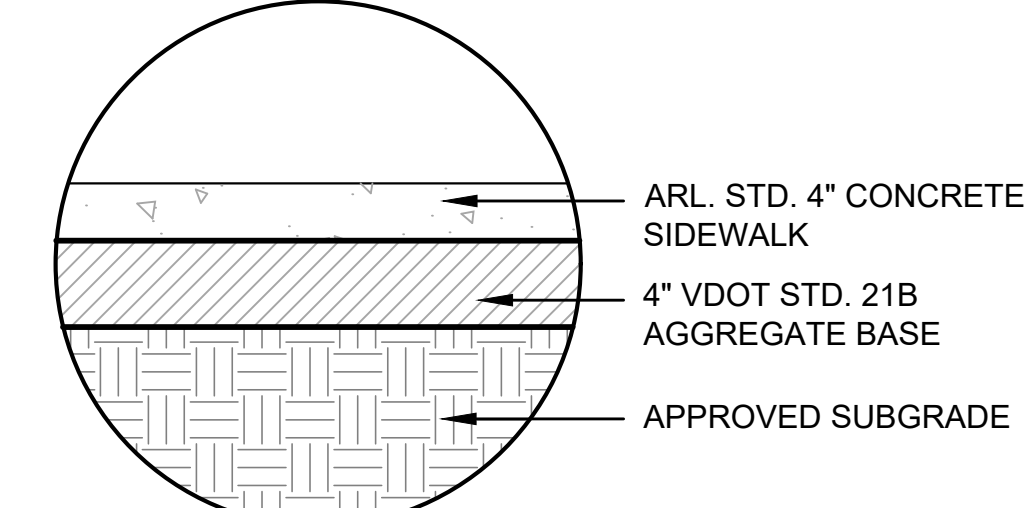
ARLINGTON COUNTY, VIRGINIA
 DEPARTMENT OF ENVIRONMENTAL SERVICES

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

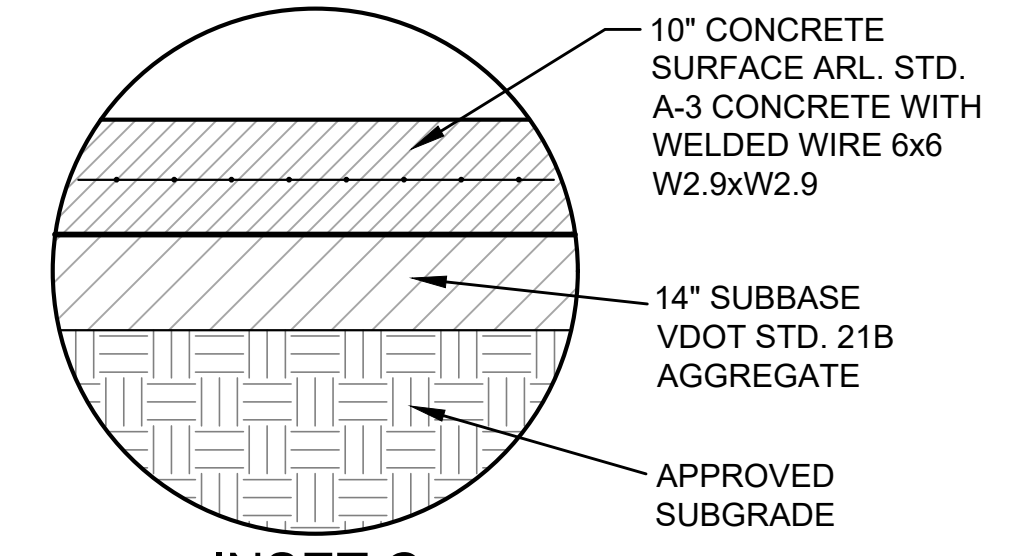
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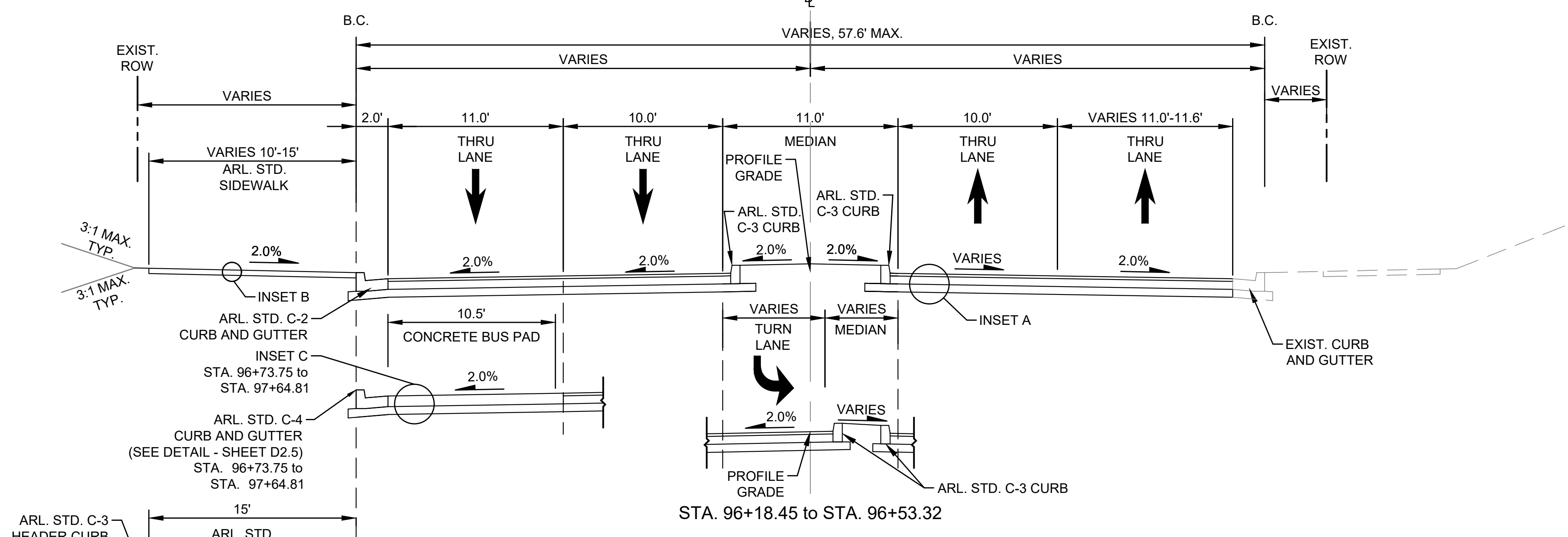
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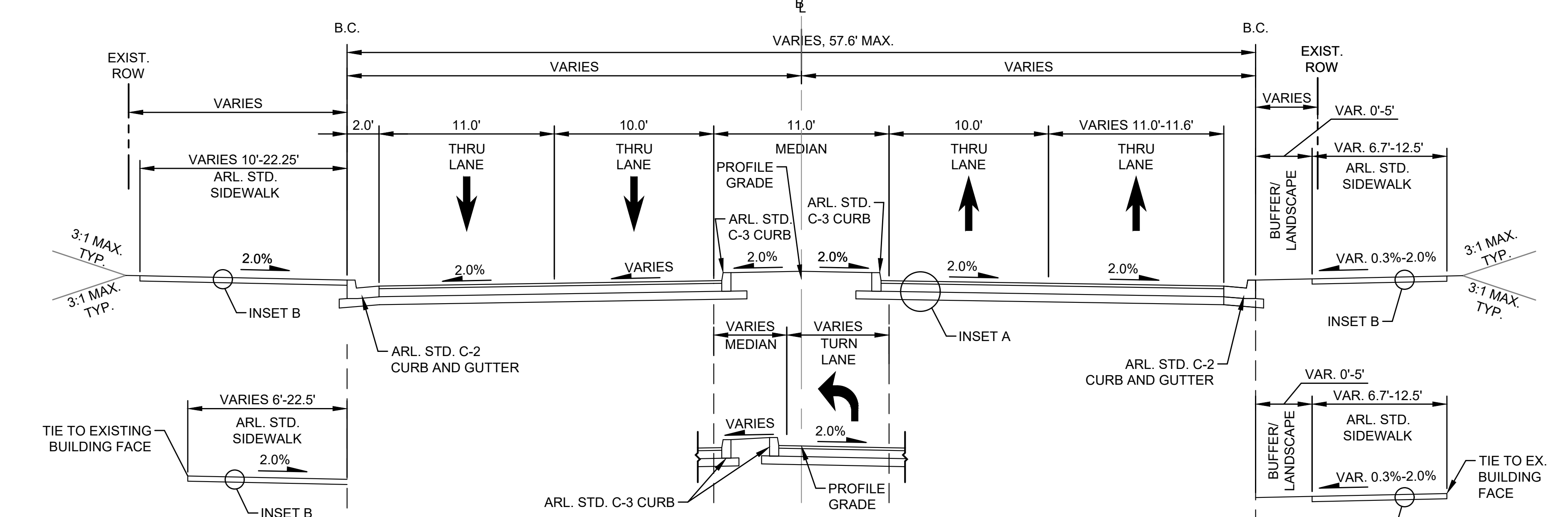
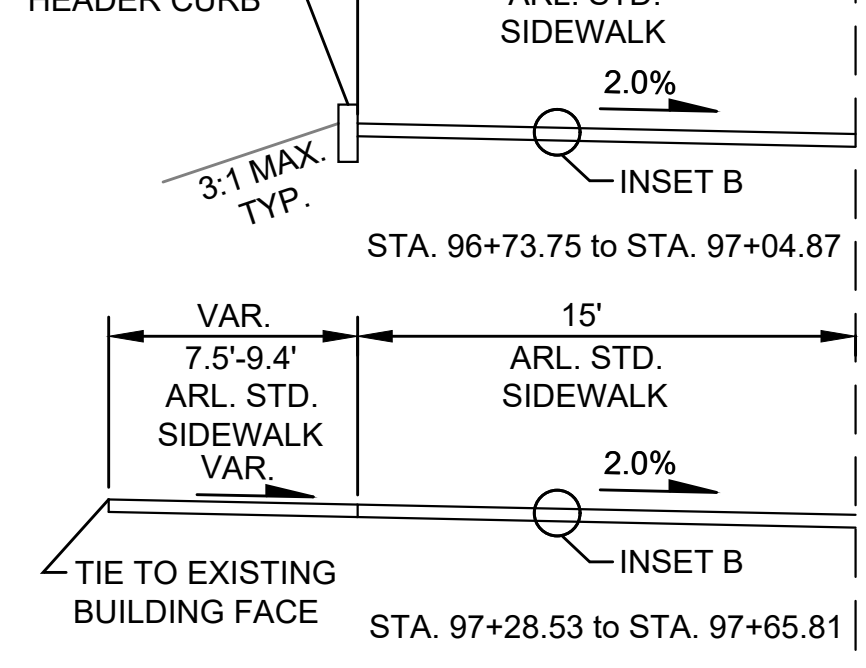
INSET B
 SIDEWALK



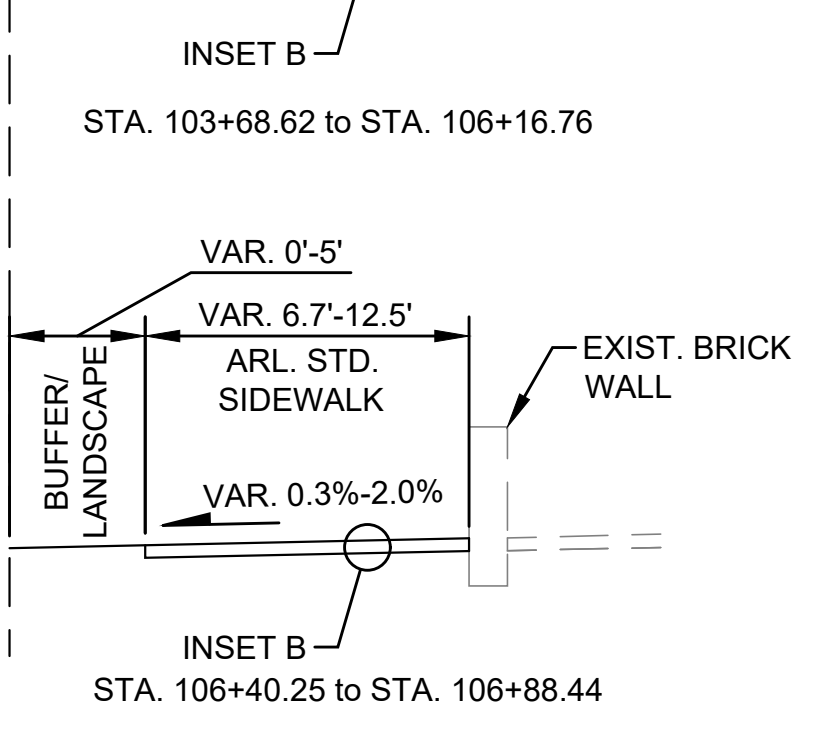
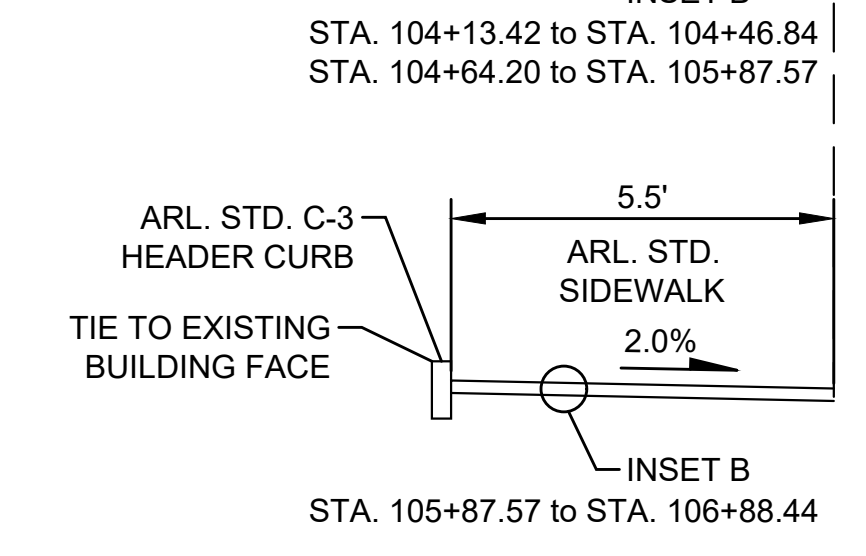
INSET C
 BUS PAD



TYPICAL SECTION COLUMBIA PIKE
 STA. 96+18.45 to STA. 97+65.81



TYPICAL SECTION COLUMBIA PIKE
 STA. 103+68.62 to STA. 106+88.44



SHEET DELETED
DO NOT APPROVE



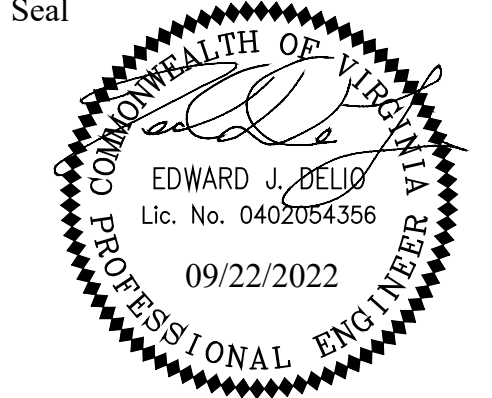
DEPARTMENT OF ENVIRONMENTAL SERVICES

Facilities & Engineering Division
Engineering Bureau
2100 Clarendon Boulevard, Suite 813
Arlington, VA 22201
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Fax: 703.228.3806

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Phone: 703-674-1300
Fax: 703-674-1300

Seal



Approvals _____ Date _____

Design Team Engineer Supervisor _____

Construction Management Supervisor _____

Water, Sewer, Streets Bureau Chief _____

Transportation Director _____

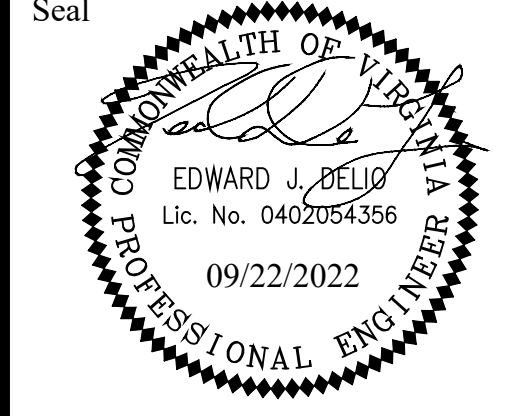
Project Manager _____

Revisions _____ Date _____

ARLINGTON COUNTY, VIRGINIA
DEPARTMENT OF ENVIRONMENTAL SERVICES

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

SCALE: HOR. N/A VERT. N/A SHEET: D3.4.1 of D3.9



Seal

Approvals _____ Date _____
 Design Team Engineer Supervisor _____
 Construction Management Supervisor _____
 Water, Sewer, Streets Bureau Chief _____
 Transportation Director _____
 Project Manager _____

Revisions	Date

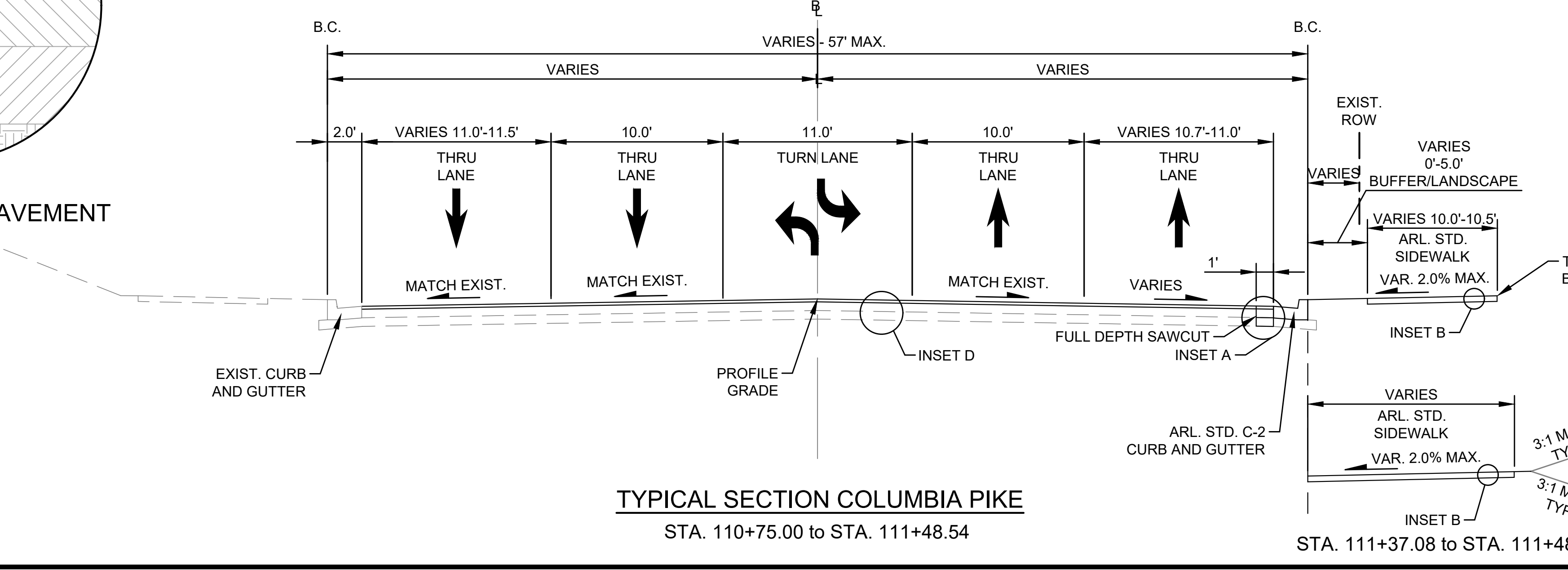
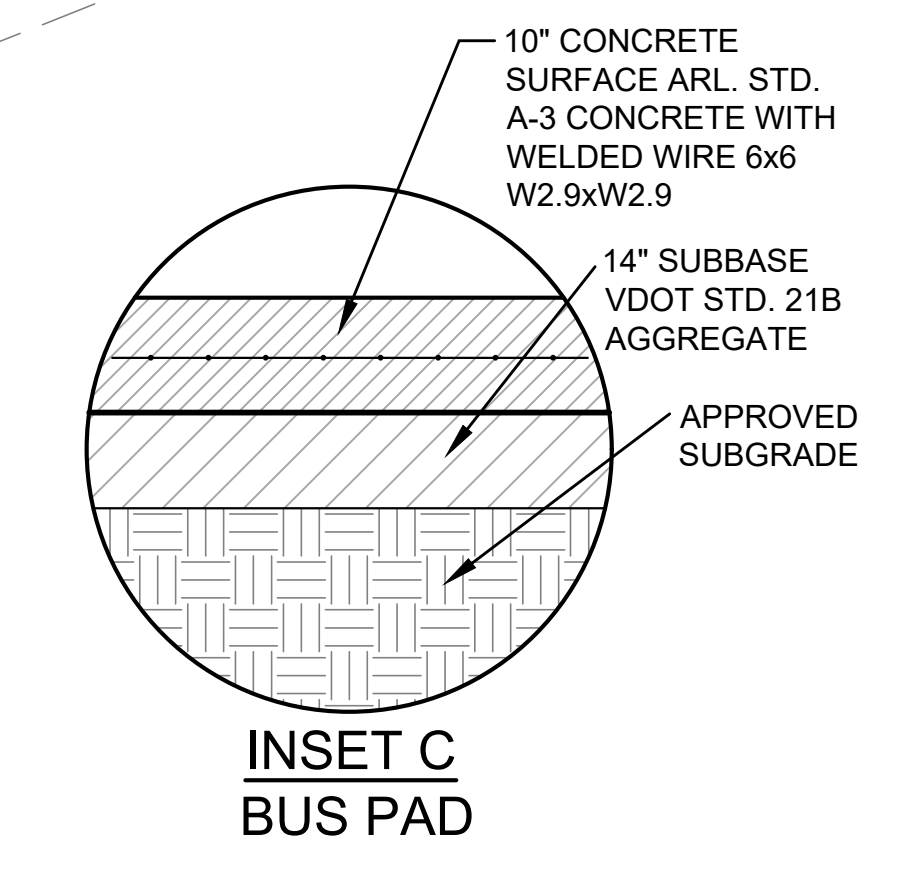
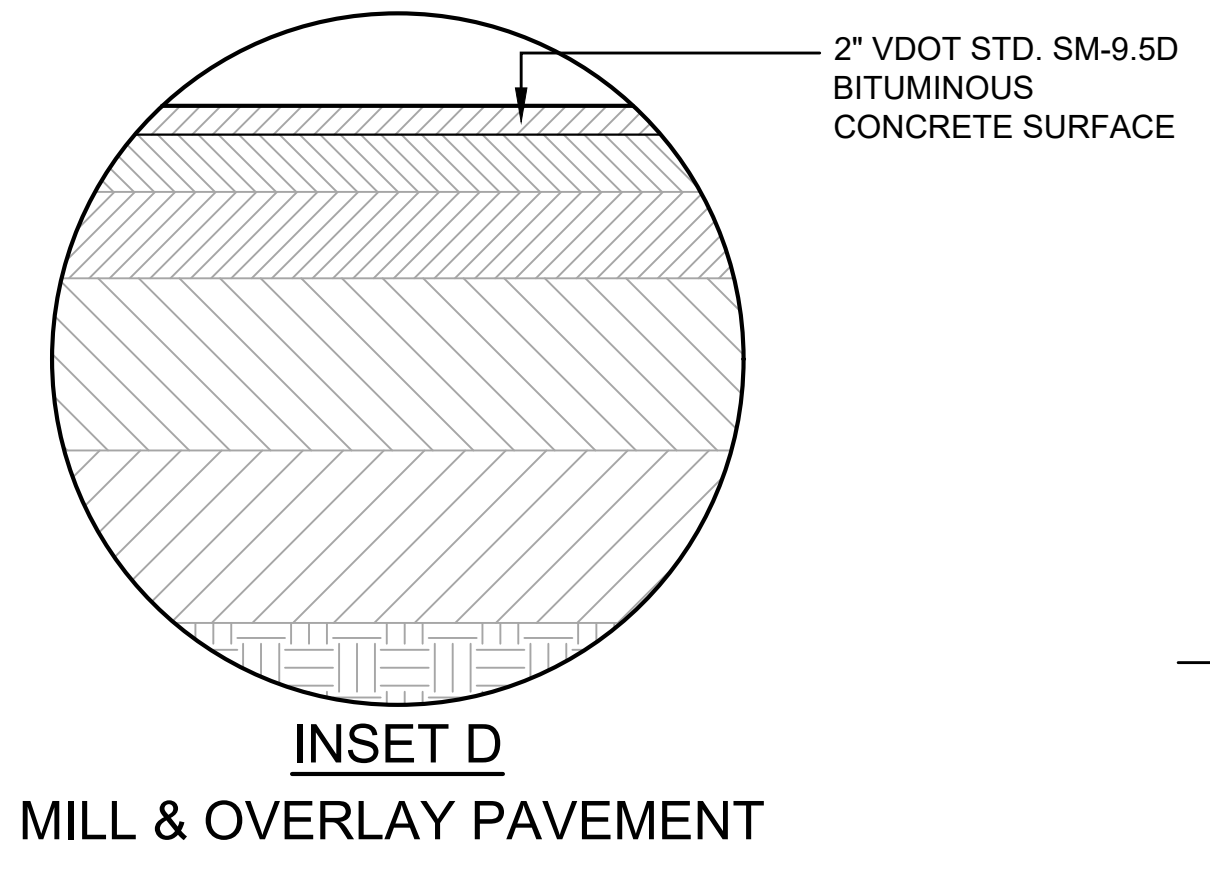
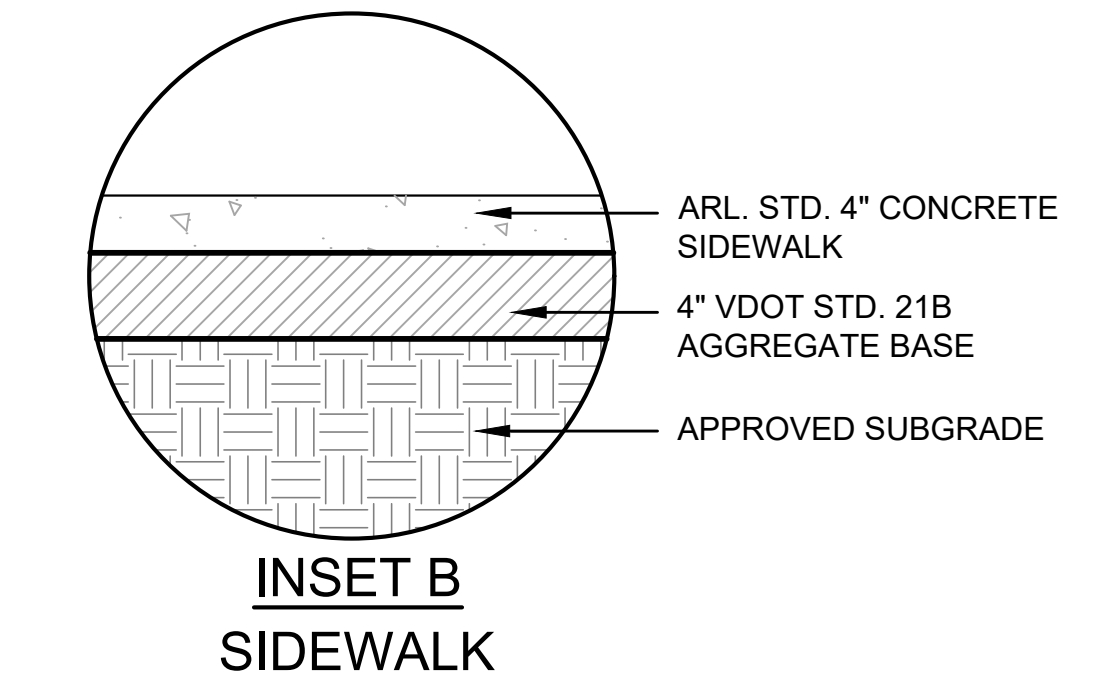
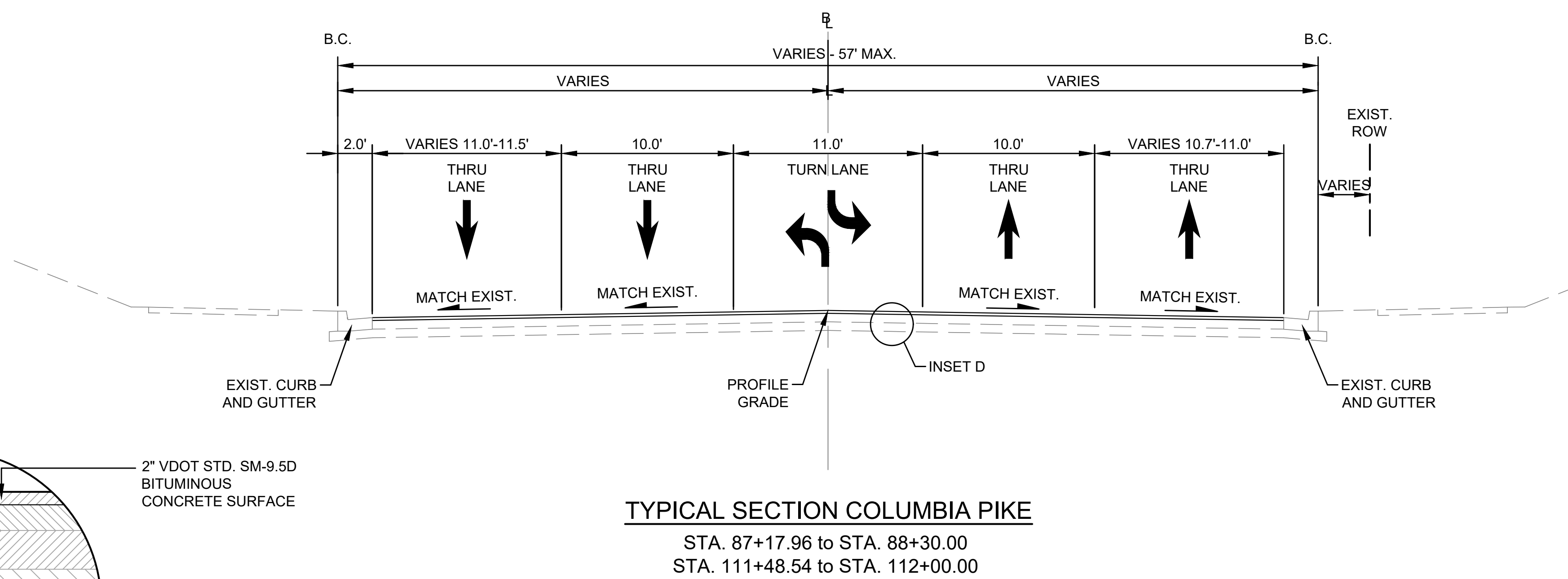
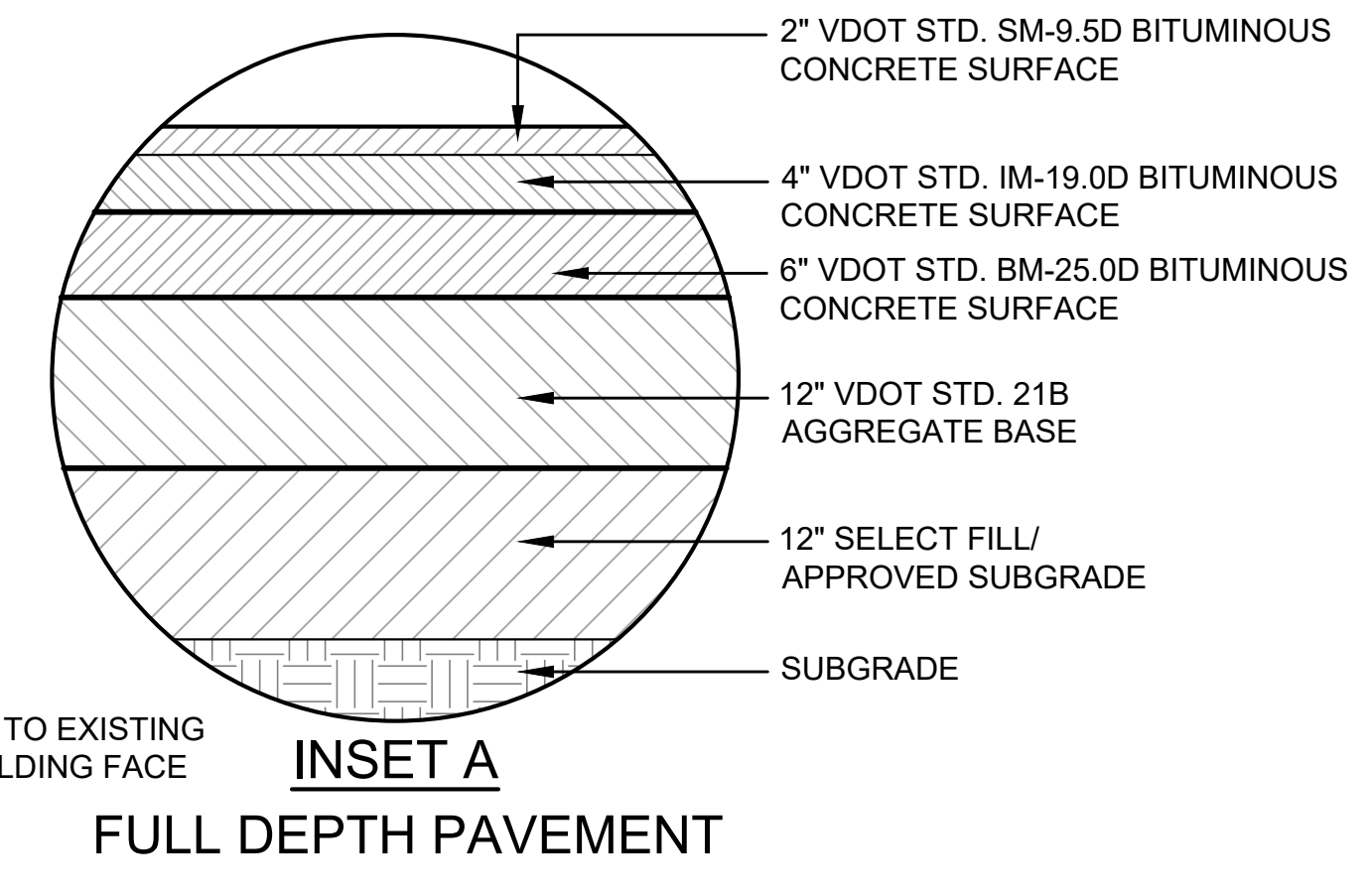
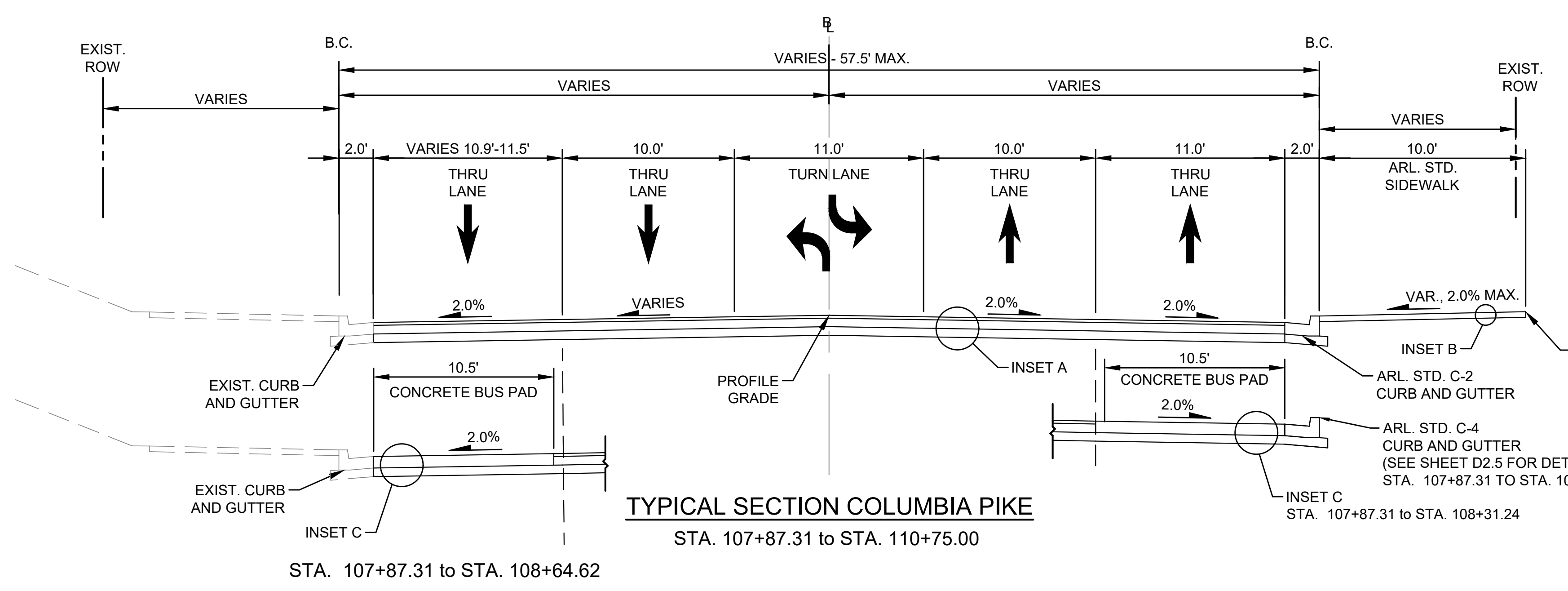
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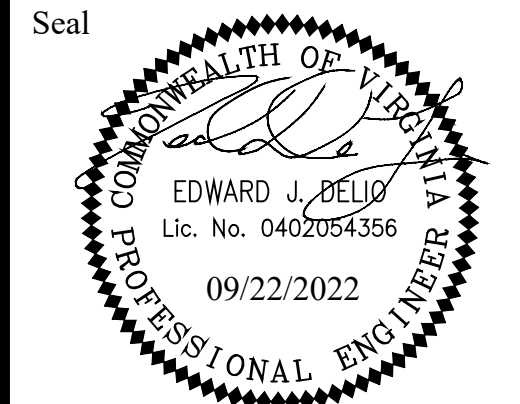
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 Plotted: September 22, 2022
 Plotted by: Ted.DeLio

ARLINGTON COUNTY, VIRGINIA
 DEPARTMENT OF ENVIRONMENTAL SERVICES

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

SCALE: HOR. N/A VERT. N/A SHEET: D3.5 of D3.9





Approvals _____ Date _____

Design Team Engineer Supervisor _____

Construction Management Supervisor _____

Water, Sewer, Streets Bureau Chief _____

Transportation Director _____

Project Manager _____

Revisions _____ Date _____

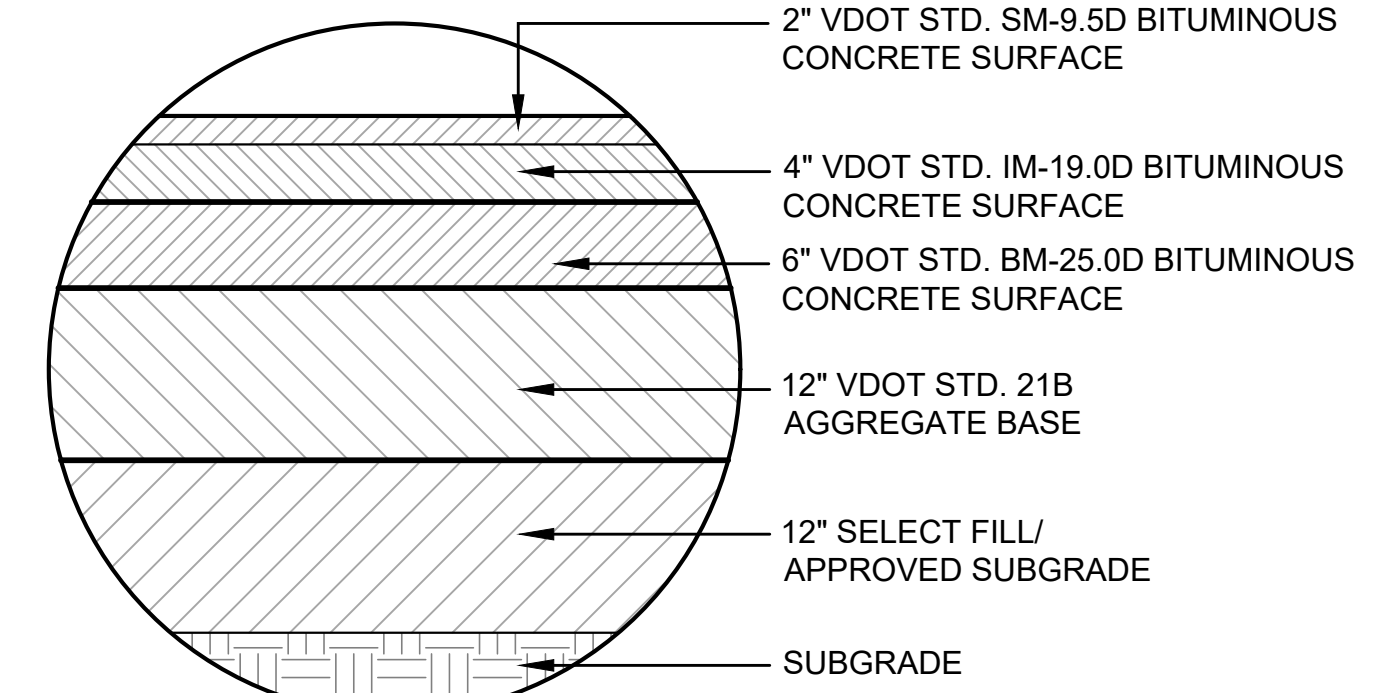
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Plotted: September 22, 2022
Plotted by: Ted.DeLio

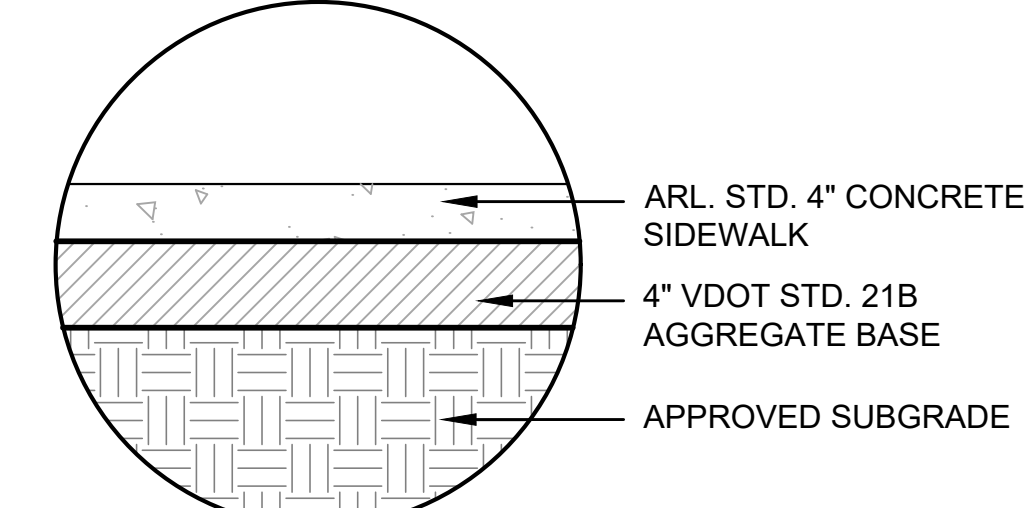
ARLINGTON COUNTY, VIRGINIA
DEPARTMENT OF ENVIRONMENTAL SERVICES

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

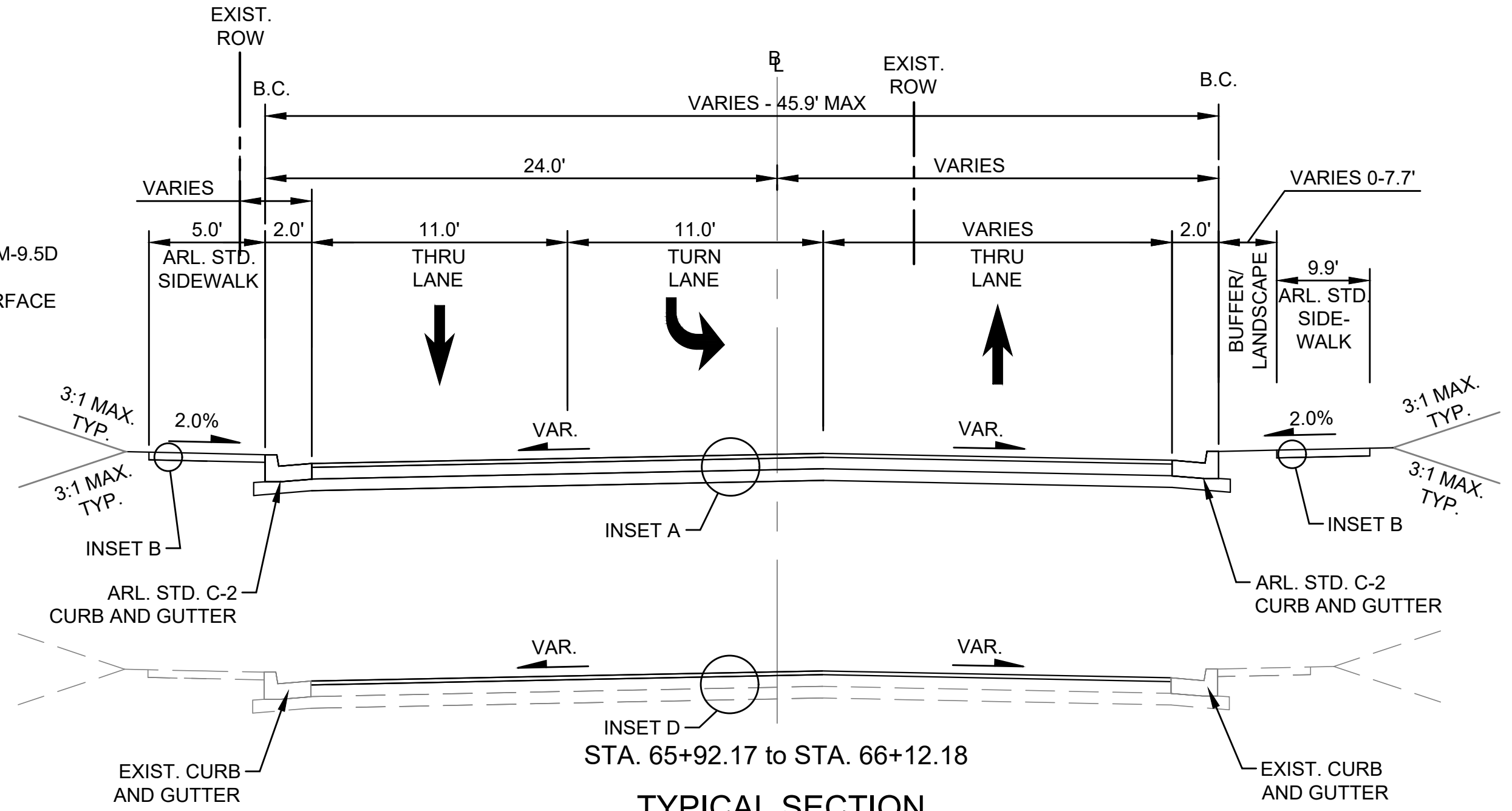
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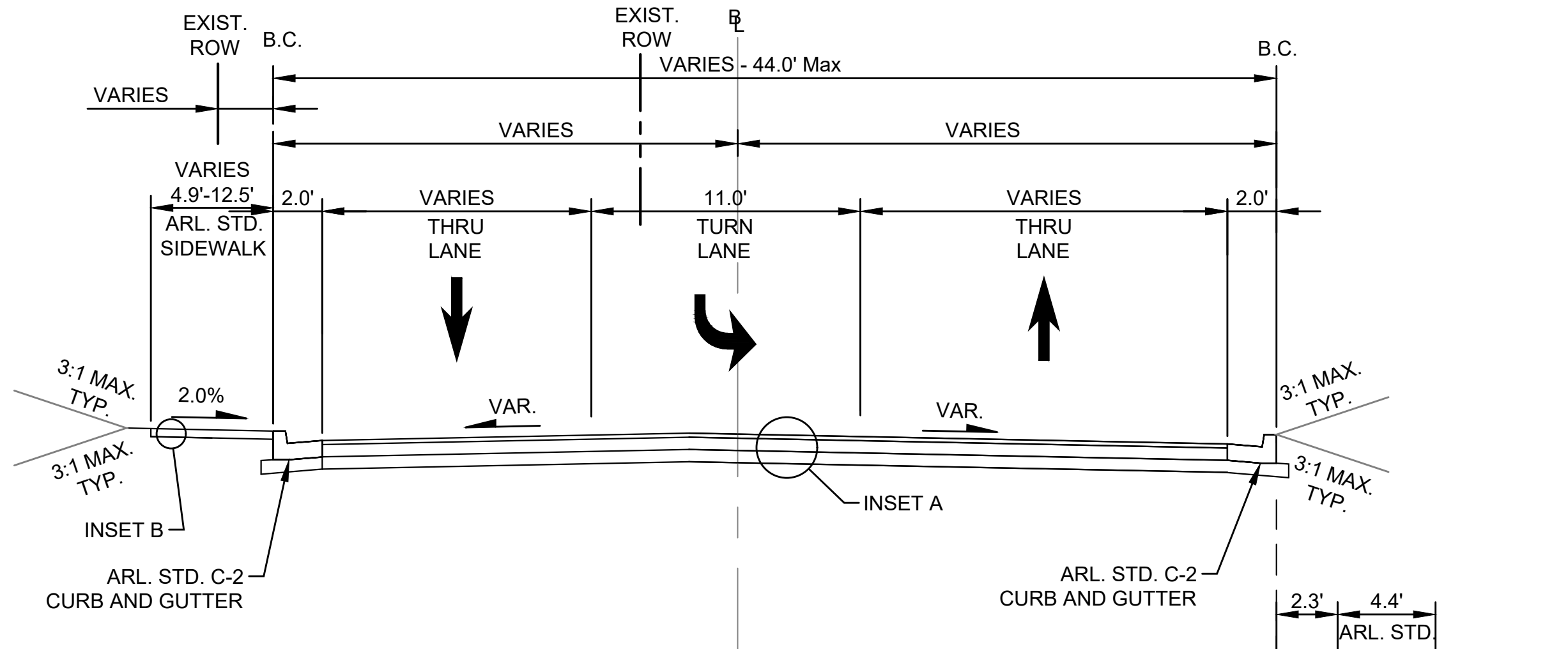
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FULL DEPTH PAVEMENT



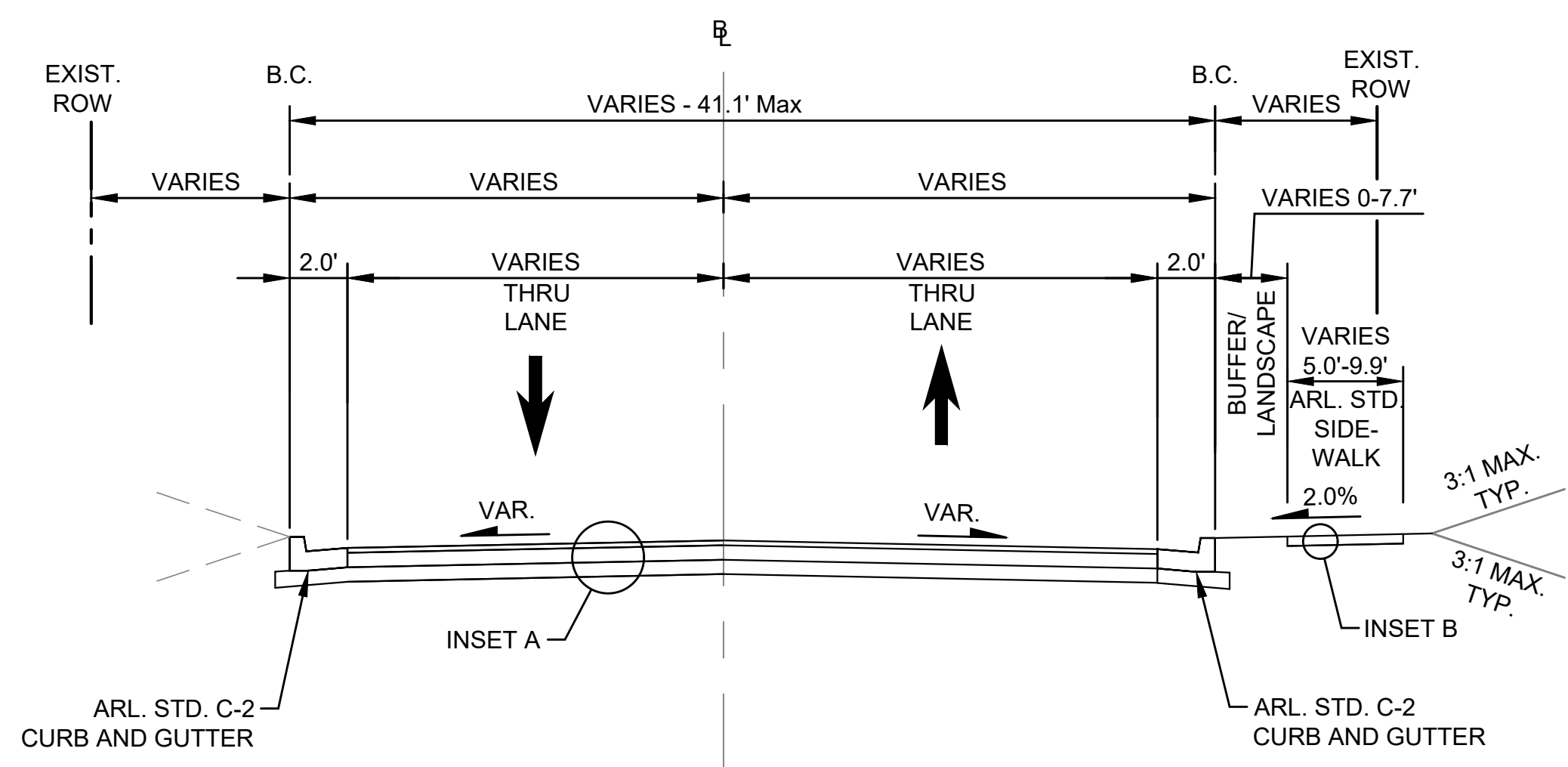
INSET B
SIDEWALK



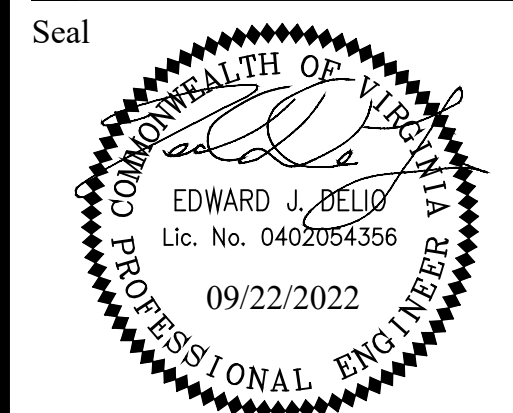
TYPICAL SECTION
S. COURTHOUSE RD.
(SOUTH OF COLUMBIA PIKE)
STA. 65+59.58 to STA. 65+92.17



TYPICAL SECTION
S. COURTHOUSE RD.
(NORTH OF COLUMBIA PIKE)
STA. 70+60.91 to STA. 71+45.70



TYPICAL SECTION
VEITCH ST
STA. 75+59.48 to STA. 76+30.58



Approvals	Date
Design Team Engineer Supervisor	
Construction Management Supervisor	
Water, Sewer, Streets Bureau Chief	
Transportation Director	
Project Manager	
Revisions	Date

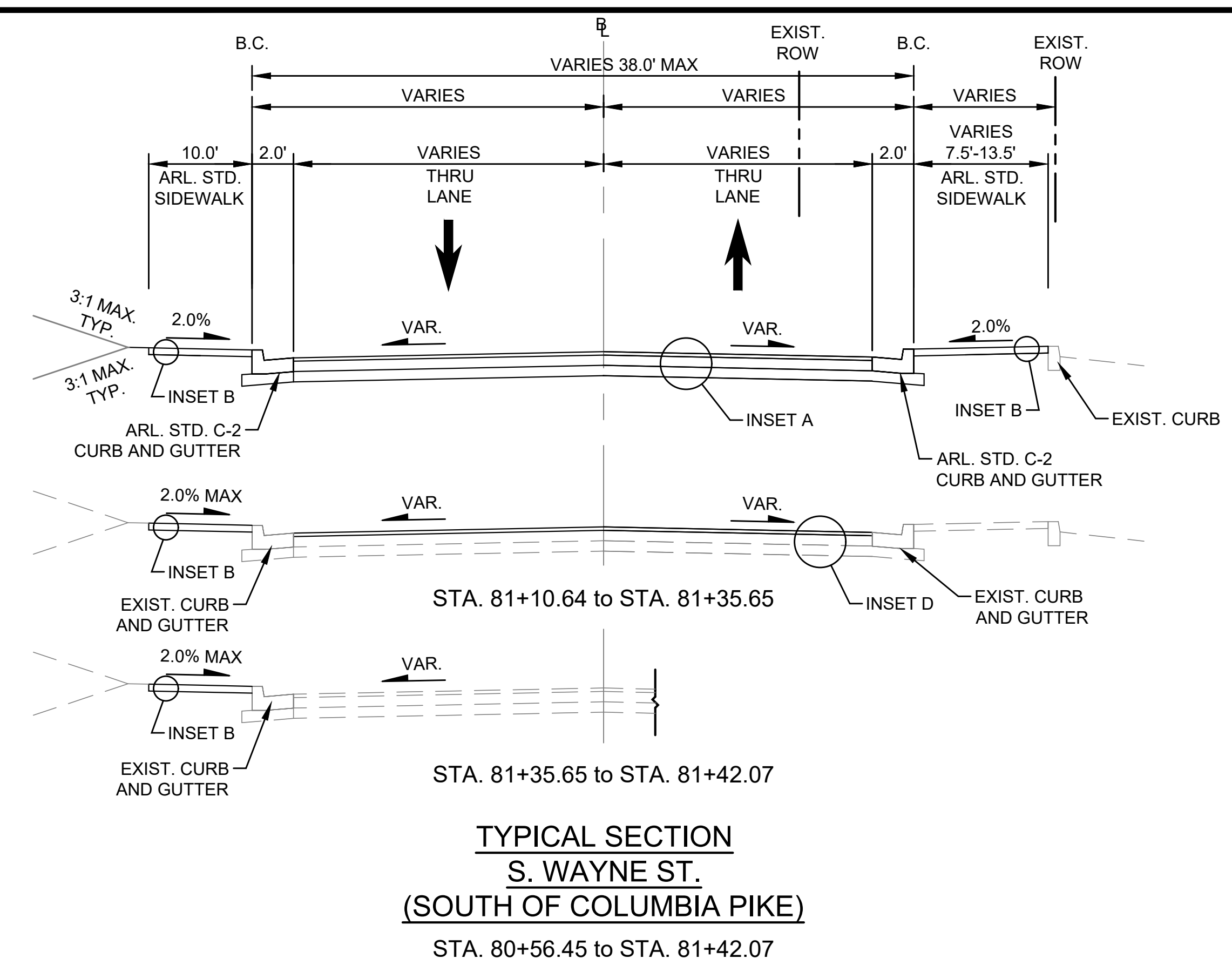
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 Drawn: PNH
 Checked: EJD
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 Plotted: September 22, 2022
 Plotted by: Ted.DeLio

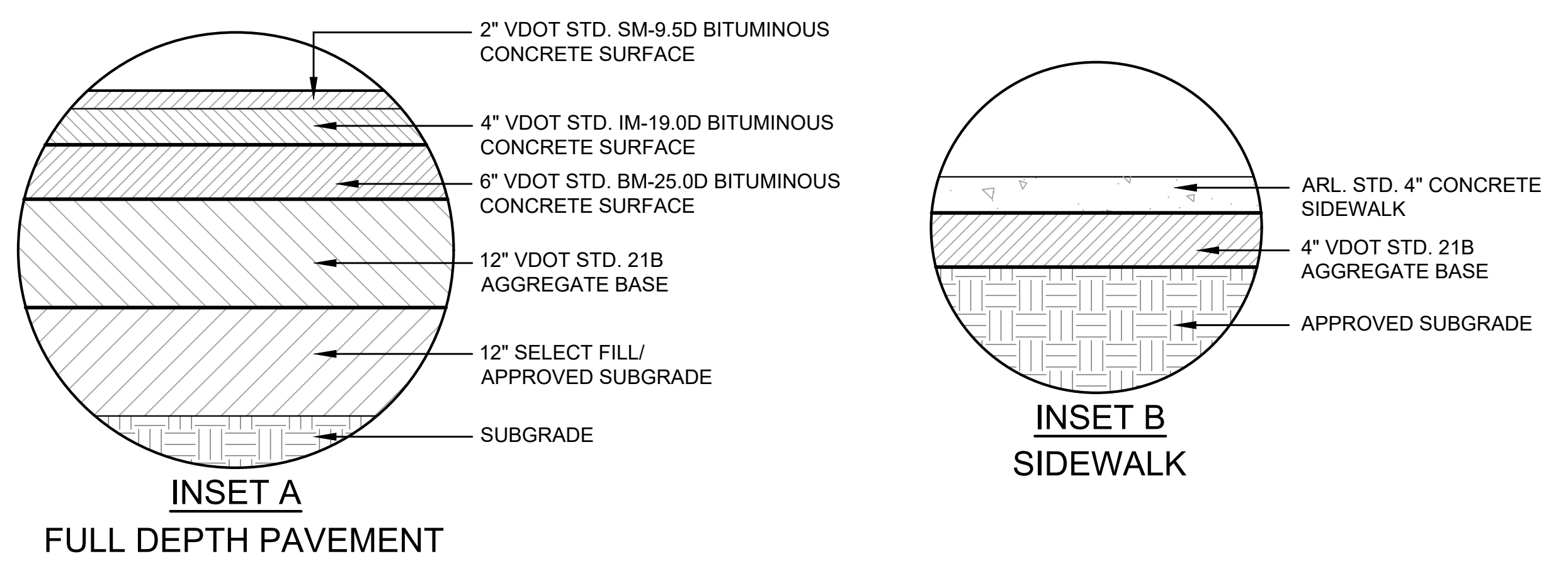
ARLINGTON COUNTY, VIRGINIA
 DEPARTMENT OF ENVIRONMENTAL SERVICES

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

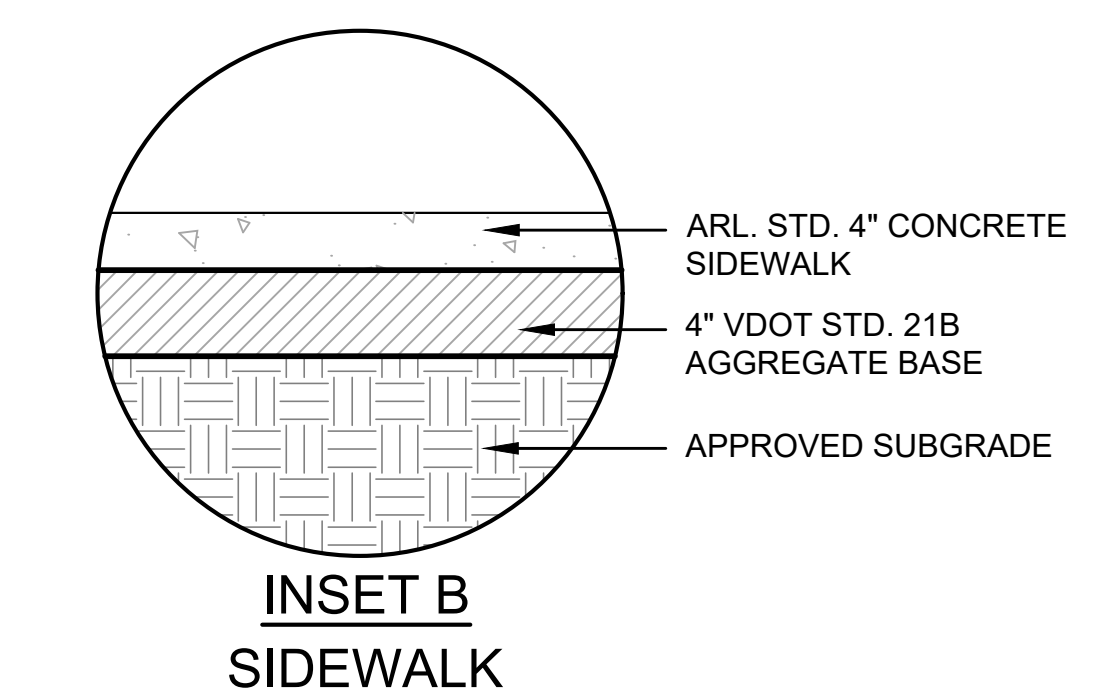
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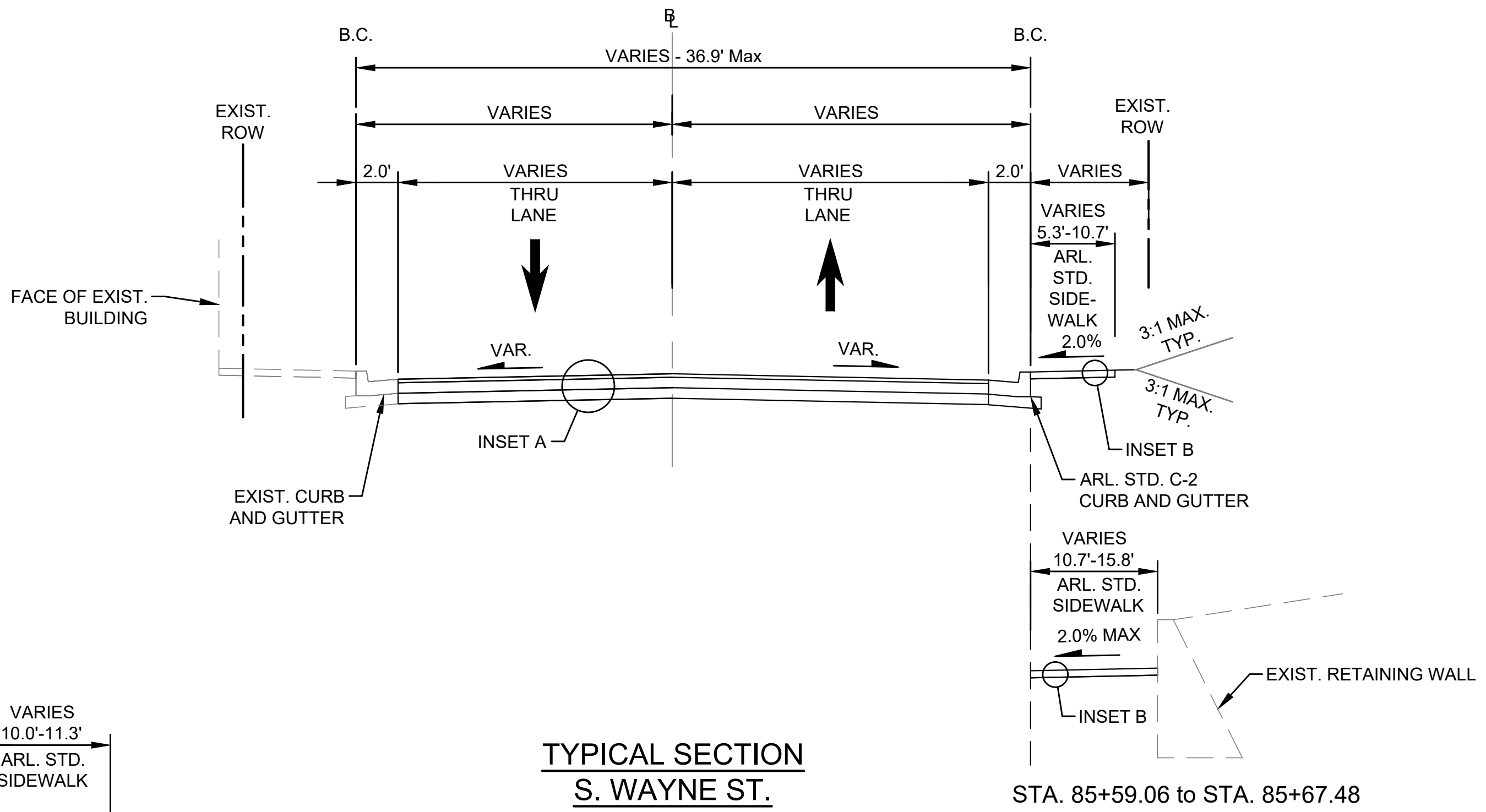
**TYPICAL SECTION
 S. WAYNE ST.
 (SOUTH OF COLUMBIA PIKE)**
 STA. 80+56.45 to STA. 81+42.07



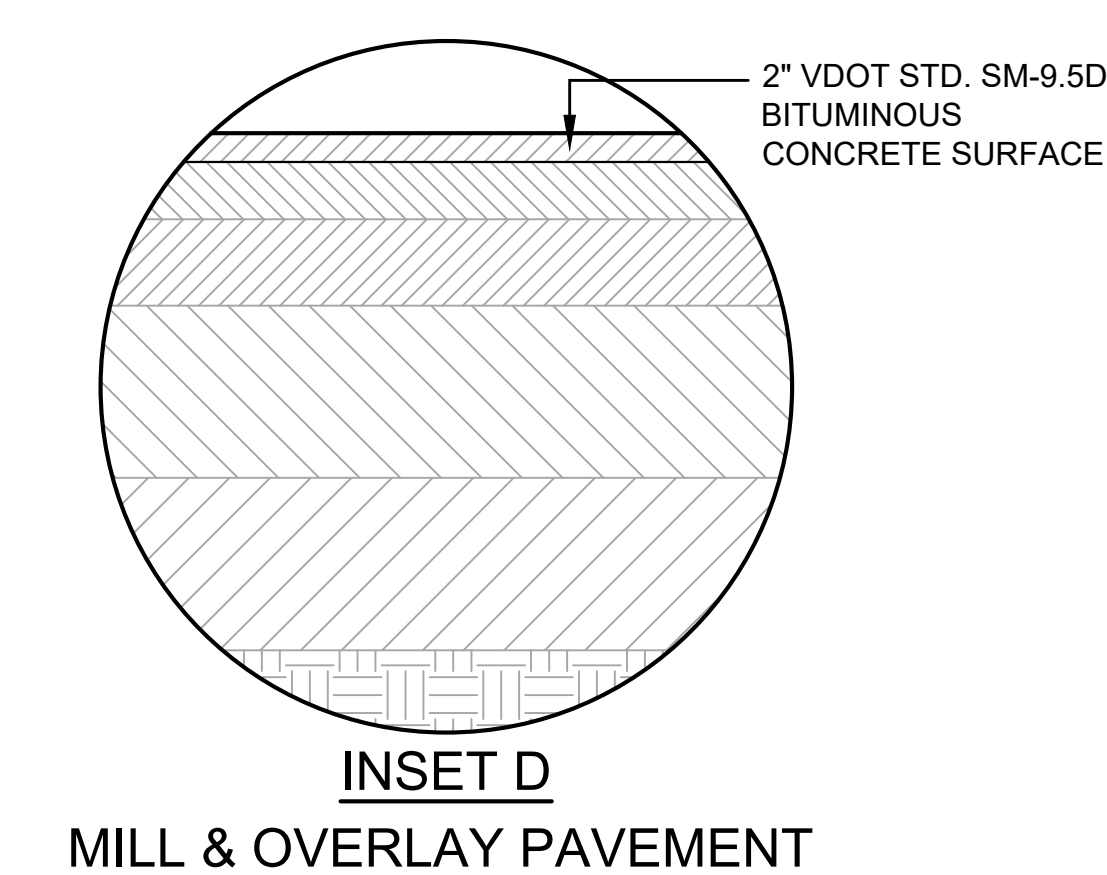
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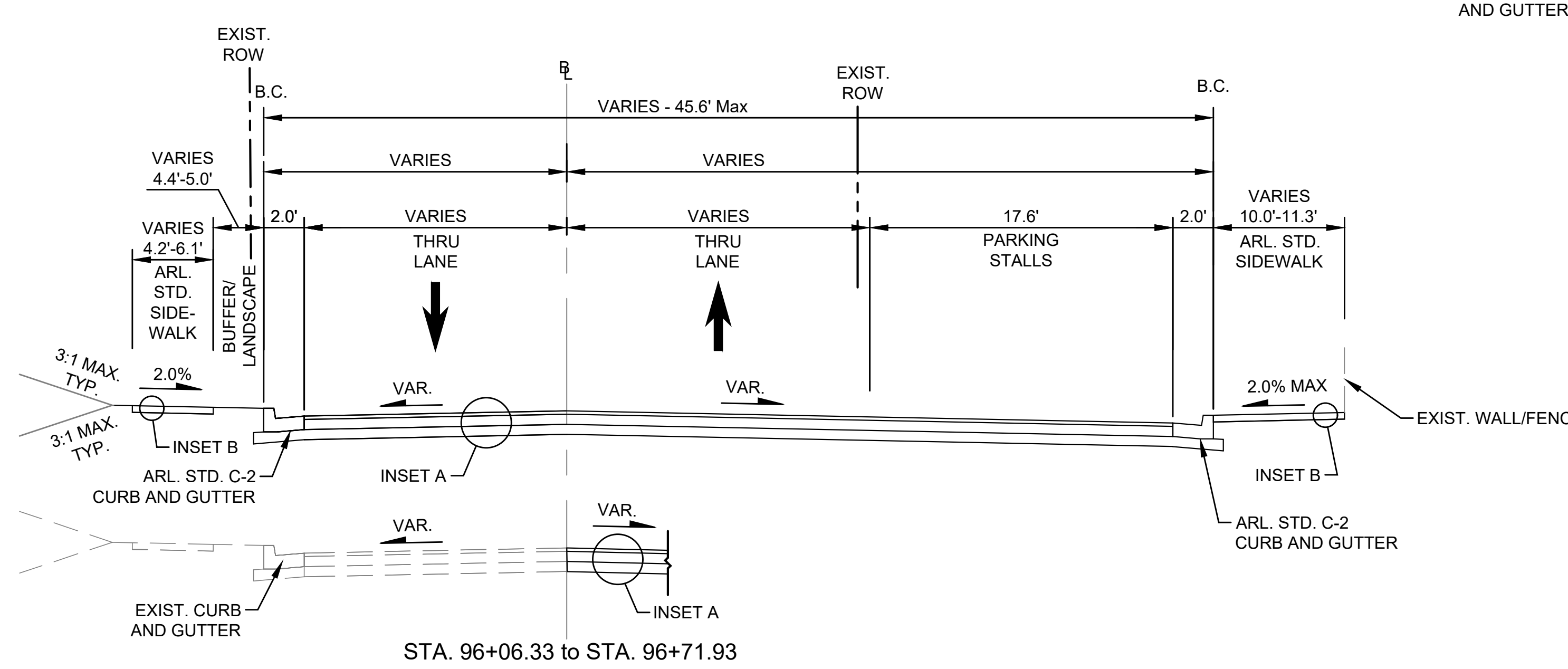
**INSET B
 SIDEWALK**



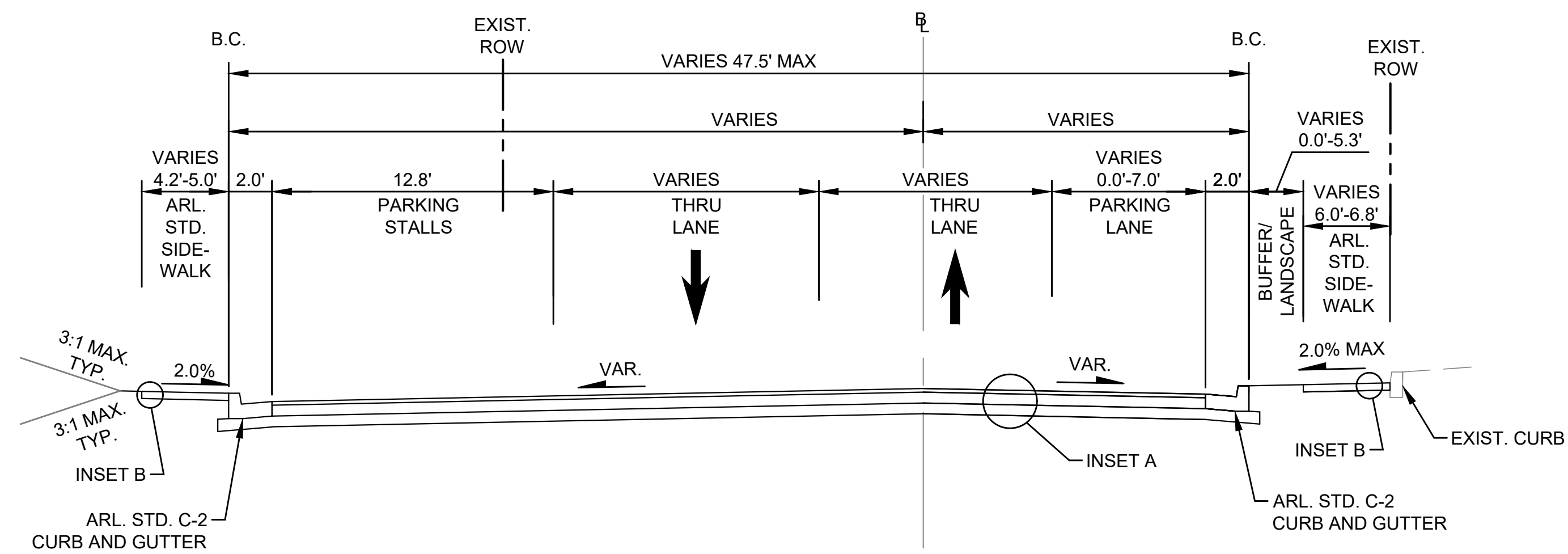
**TYPICAL SECTION
 S. WAYNE ST.
 (NORTH OF COLUMBIA PIKE)**
 STA. 85+59.06 to STA. 86+16.37



**INSET D
 MILL & OVERLAY PAVEMENT**



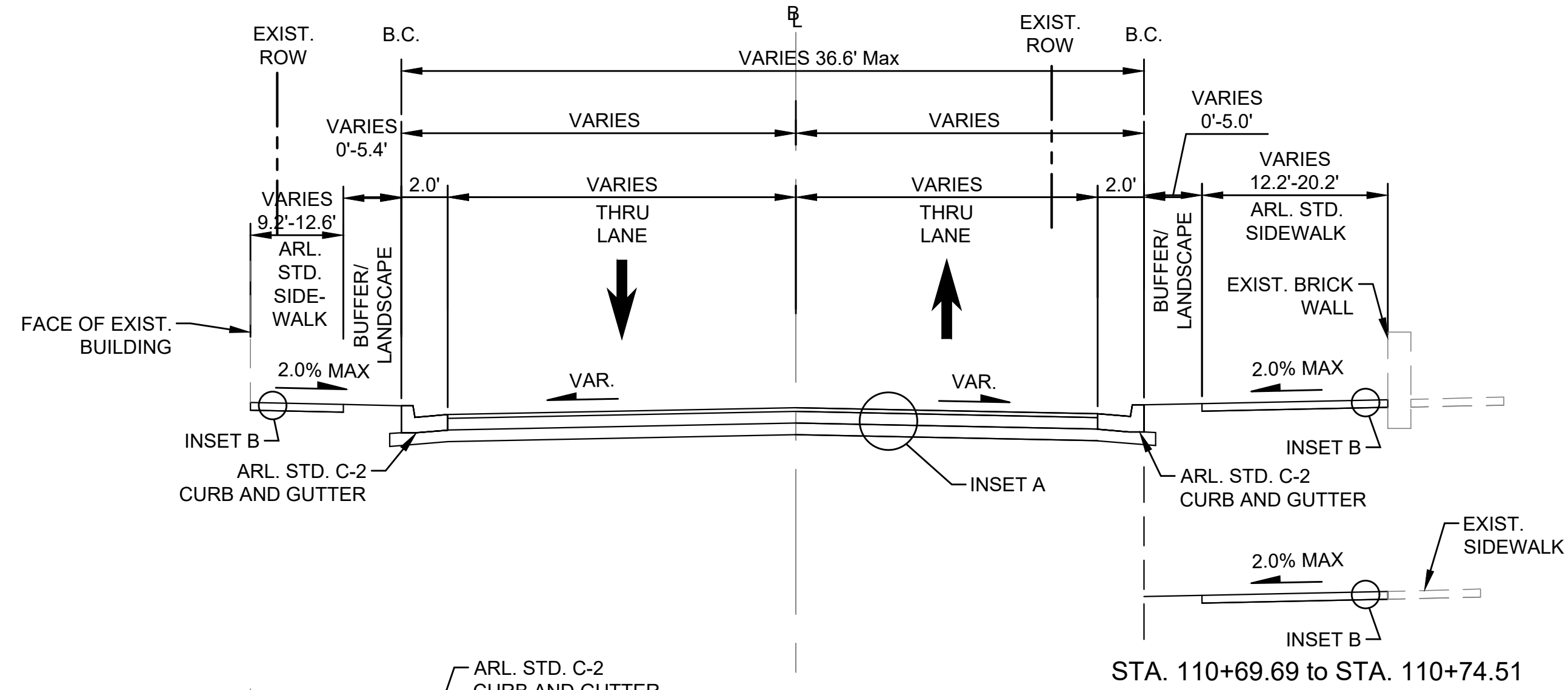
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 S. BARTON ST.**
 STA. 95+53.04 to STA. 96+71.93



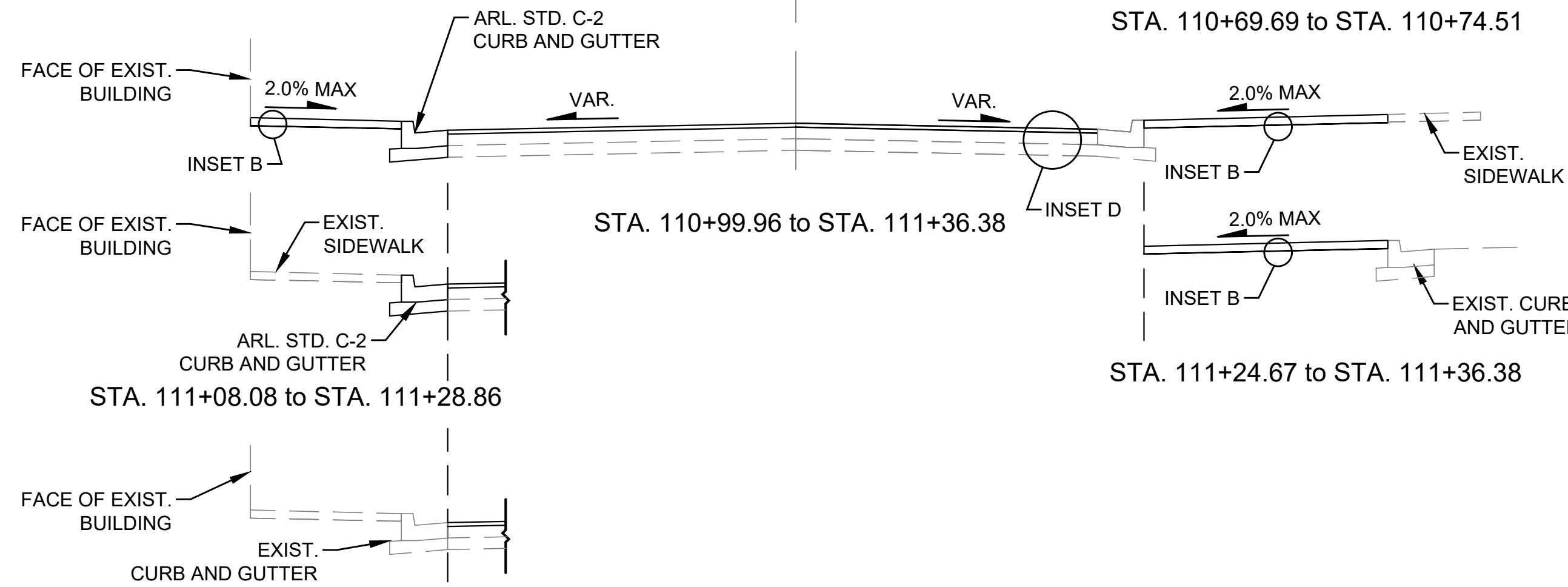
STA. 105+99.90 to STA. 106+19.90

**TYPICAL SECTION
S. CLEVELAND ST.**

STA. 105+51.56 to STA. 106+19.90

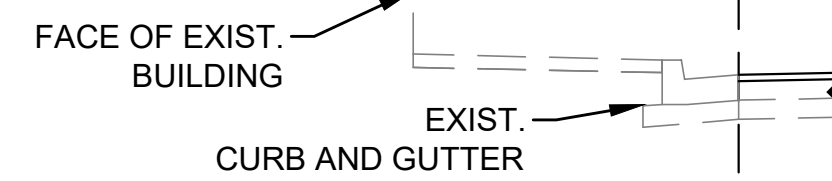


STA. 110+69.69 to STA. 110+74.51



STA. 110+99.96 to STA. 111+36.38

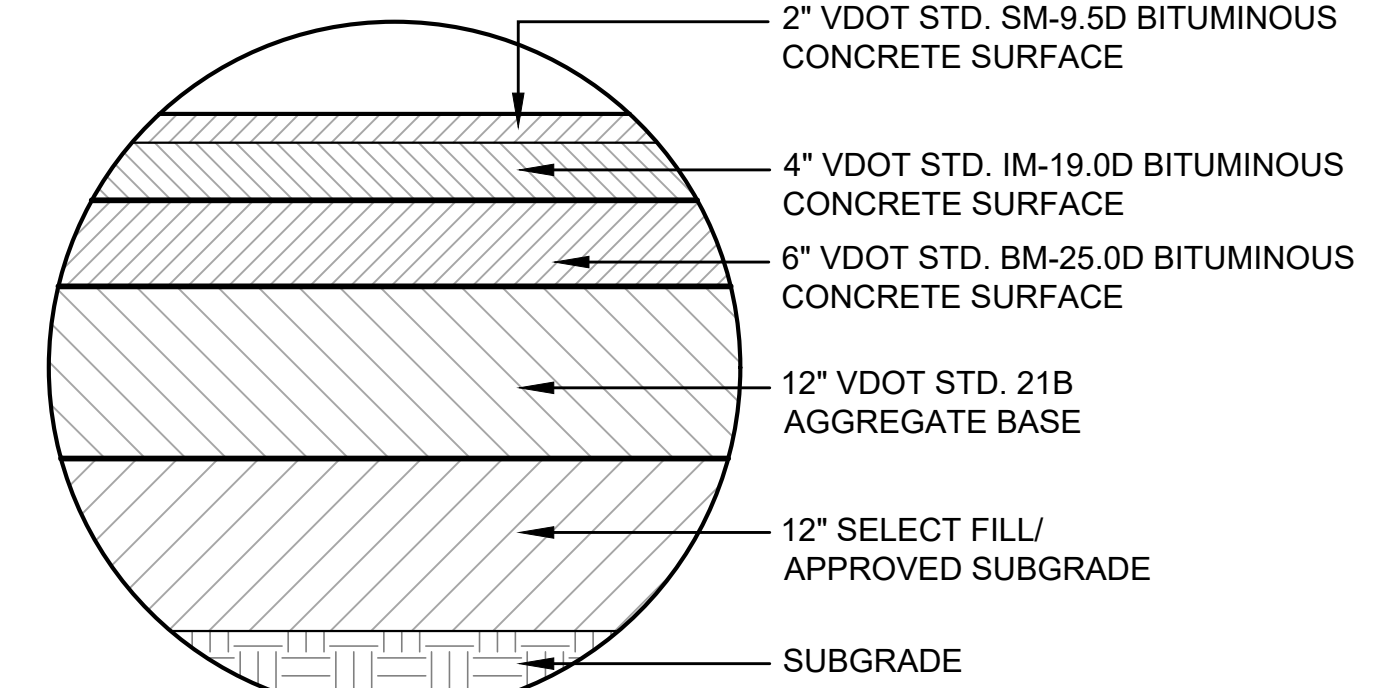
STA. 111+24.67 to STA. 111+36.38



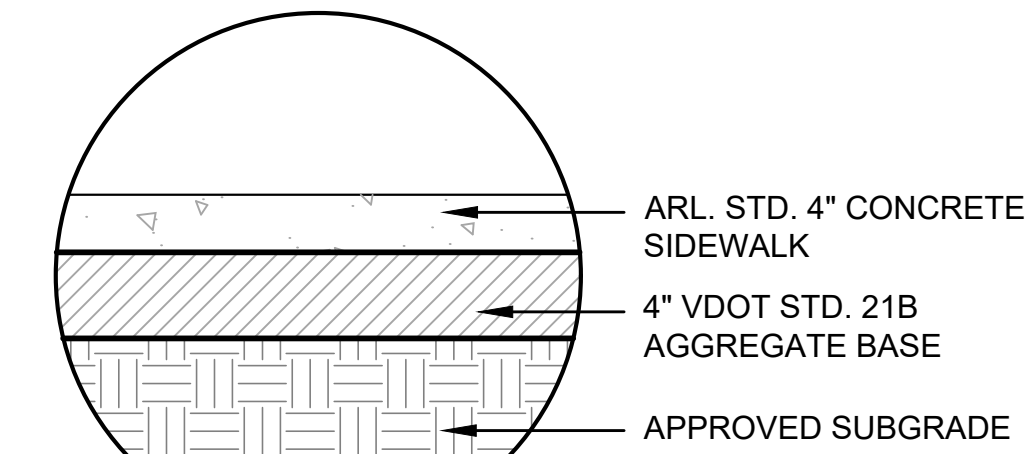
STA. 111+28.86 to STA. 111+36.38

**TYPICAL SECTION
S. EDGEWOOD ST.**

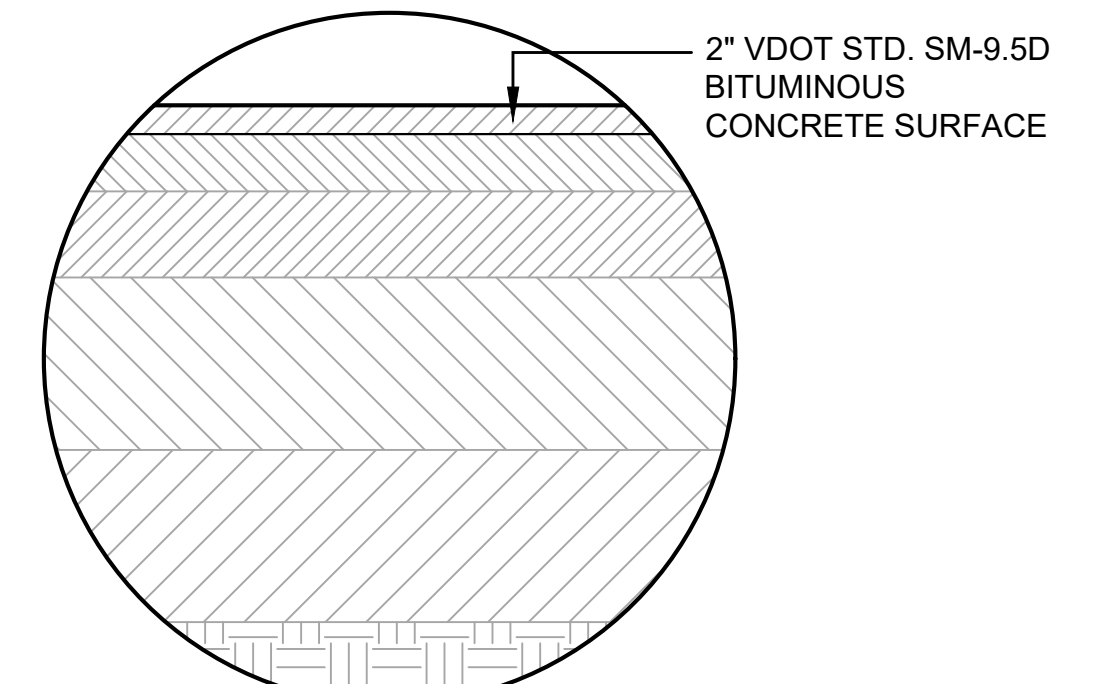
STA. 110+55.98 to STA. 111+36.38



**INSET A
FULL DEPTH PAVEMENT**



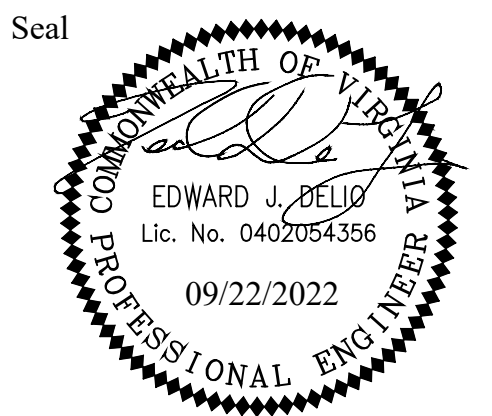
**INSET B
SIDEWALK**



**INSET D
MILL & OVERLAY PAVEMENT**

ARLINGTON VIRGINIA
DEPARTMENT OF ENVIRONMENTAL SERVICES
Facilities & Engineering Division
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Phone: 703-674-1300
Fax: 703-674-1300



Approvals _____ Date _____

Design Team Engineer Supervisor _____

Construction Management Supervisor _____

Water, Sewer, Streets Bureau Chief _____

Transportation Director _____

Project Manager _____

Revisions _____ Date _____

Designed: TEC
Drawn: PNH
Checked: EJD
Miss Utility Transmittal #: _____

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Path: C:\NVA_RDP\11010073_Columbia Pike Multimodal Production Task
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Plotted: September 22, 2022
Plotted by: Ted.DeLio

ARLINGTON COUNTY, VIRGINIA
DEPARTMENT OF ENVIRONMENTAL SERVICES

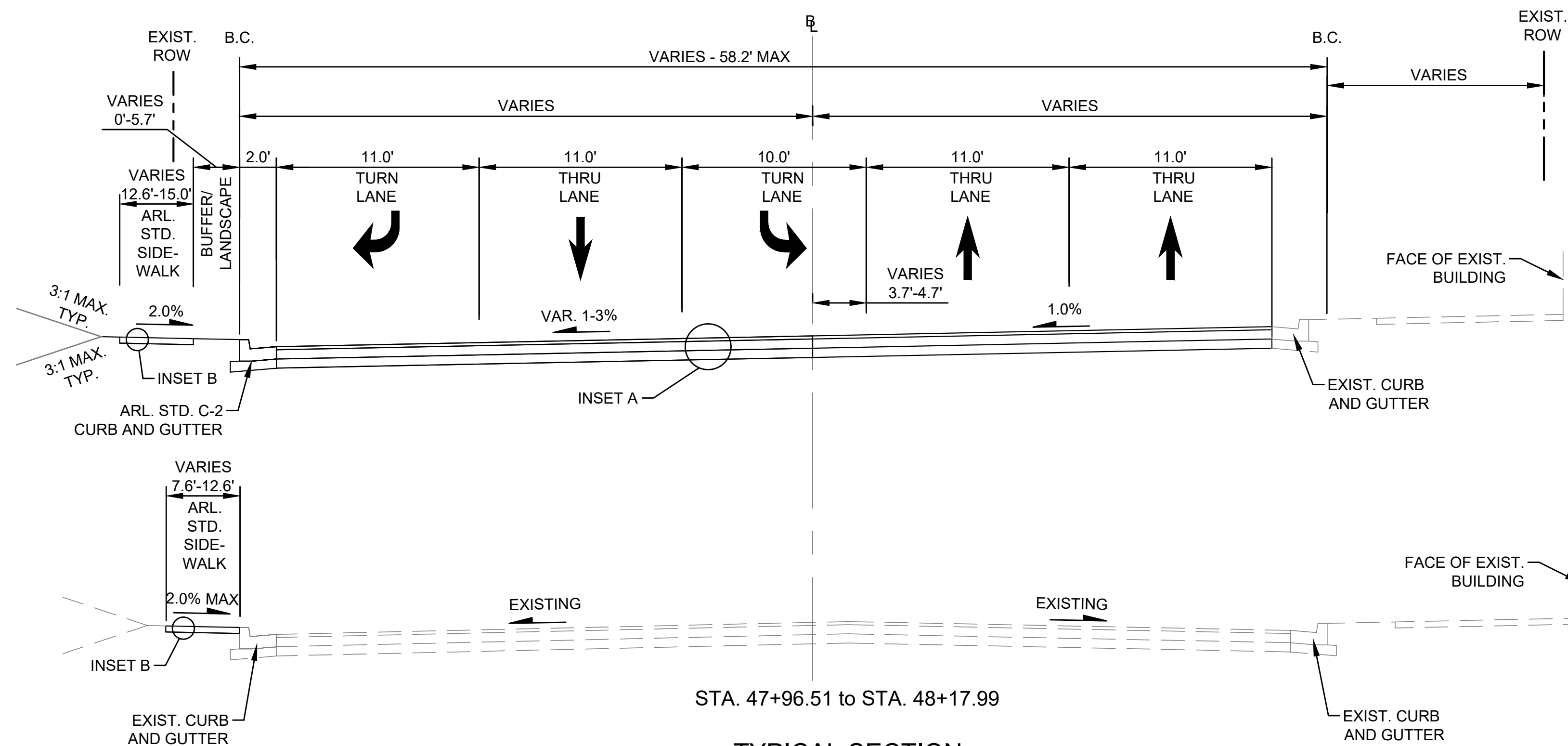
TYPICAL SECTIONS
COLUMBIA PIKE - ROUTE 244
COLUMBIA PIKE - MULTIMODAL STREET IMPROVEMENTS
SEGMENT D

SCALE: HOR. N/A VERT. N/A SHEET: D3.8 of D3.9

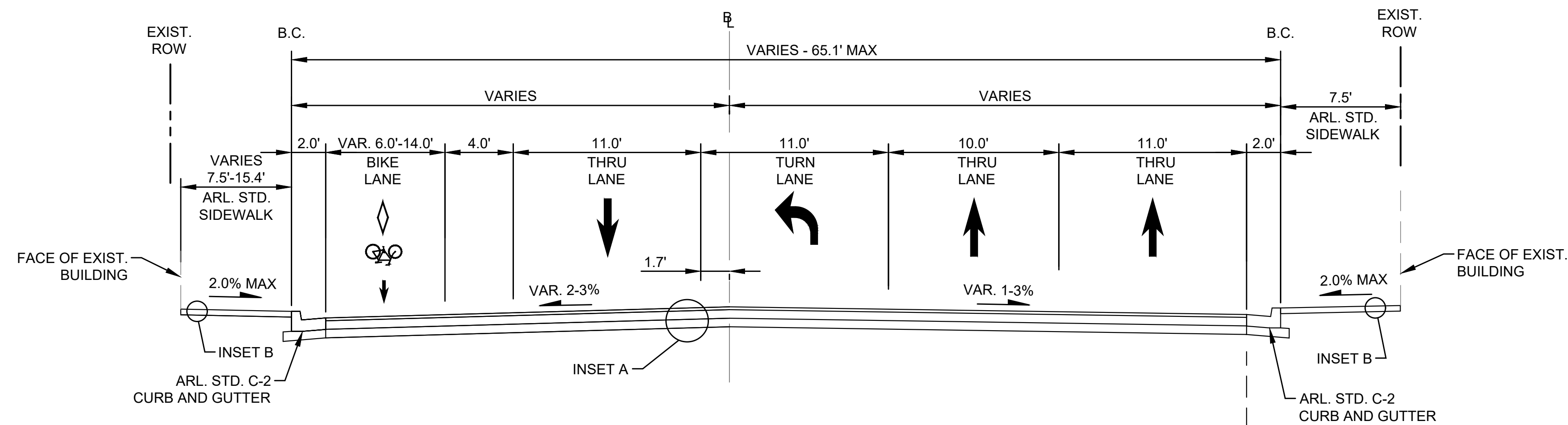
ARLINGTON VIRGINIA
DEPARTMENT OF ENVIRONMENTAL SERVICES

Ted DeLio
BUREAU CHIEF, DES. DEVELOPMENT SERVICES

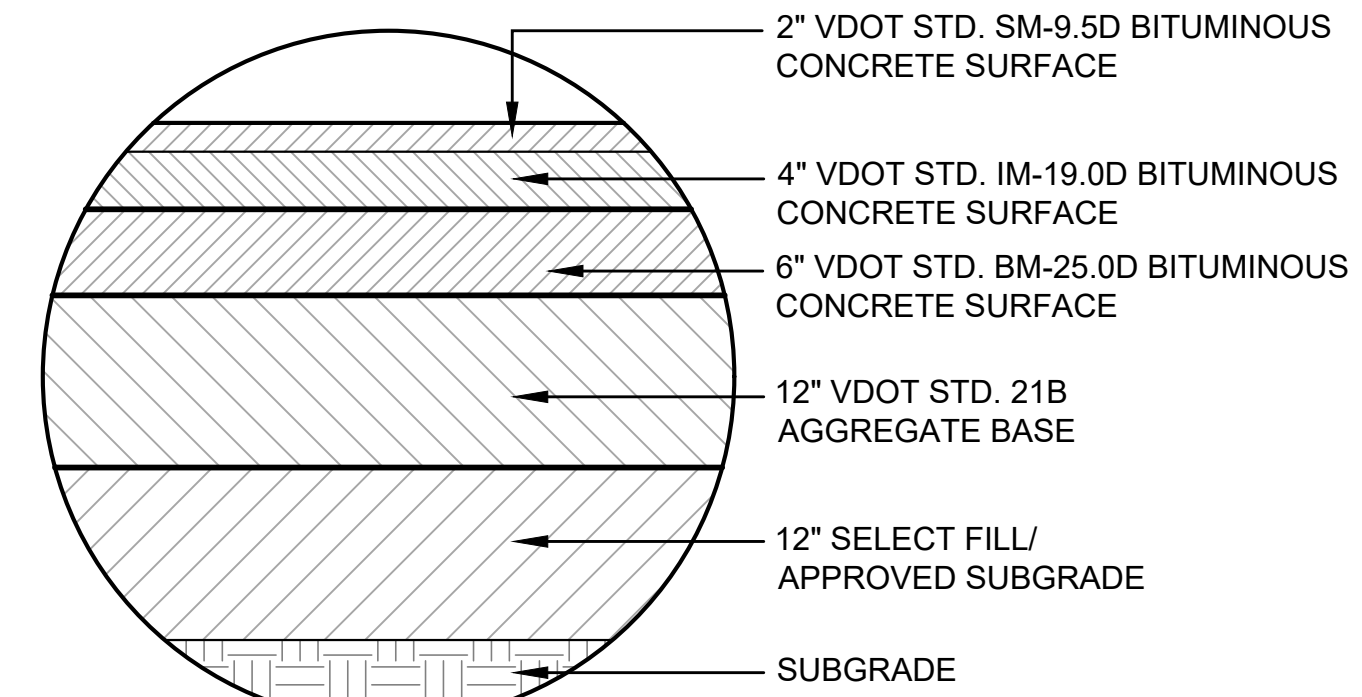
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APPROVAL DATE



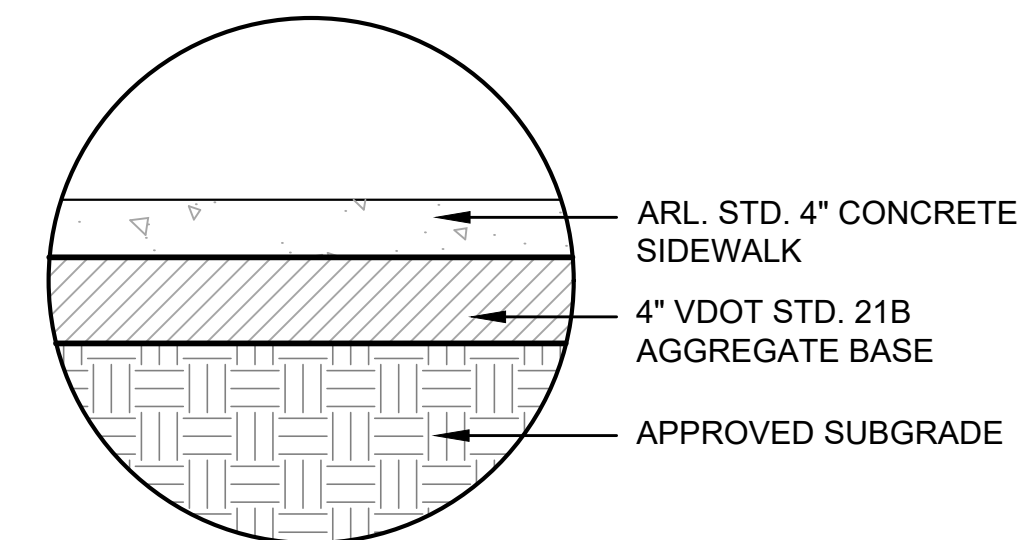
**TYPICAL SECTION
S. WALTER REED DR.
(SOUTH OF COLUMBIA PIKE)**
STA. 47+96.51 to STA. 48+17.99
STA. 47+71.25 to STA. 48+17.99



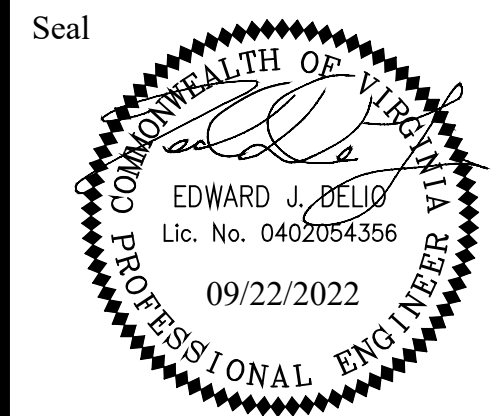
**TYPICAL SECTION
S. WALTER REED DR.
(NORTH OF COLUMBIA PIKE)**
STA. 46+26.94 To STA. 45+66.00



**INSET A
FULL DEPTH PAVEMENT**



**INSET B
SIDEWALK**



Approvals _____ Date _____

Design Team Engineer Supervisor _____

Construction Management Supervisor _____

Water, Sewer, Streets Bureau Chief _____

Transportation Director _____

Project Manager _____

Revisions _____ Date _____

Designed: TEC
Drawn: PNH
Checked: EJD
Miss Utility Transmittal #: _____

Filename: 010073-D-TYP-SEC.dwg
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Plotted: September 22, 2022
Plotted by: Ted.DeLio

ARLINGTON COUNTY, VIRGINIA
DEPARTMENT OF ENVIRONMENTAL SERVICES

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

SCALE: HOR. N/A VERT. N/A SHEET: D3.9 of D3.9