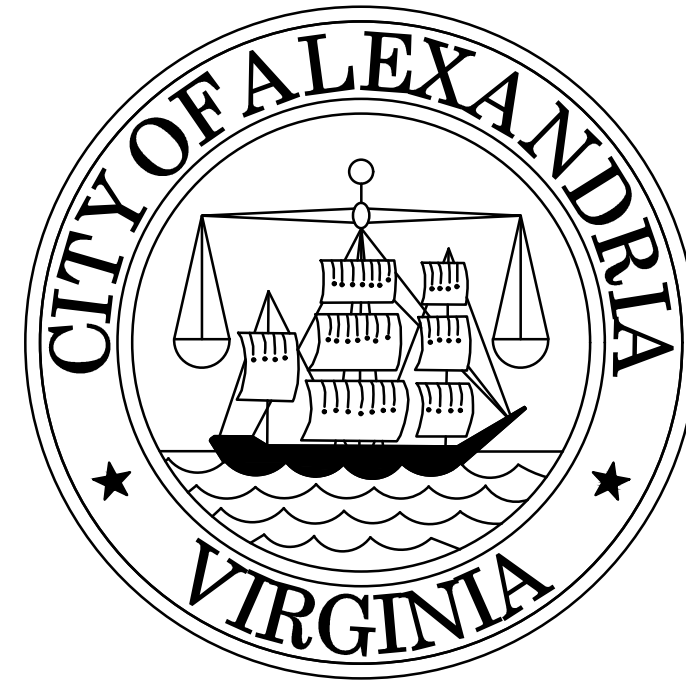


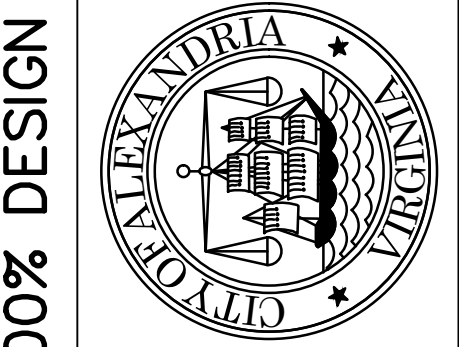
CITY OF ALEXANDRIA, VIRGINIA



CIP2022-00015 POLK AVENUE SIDEWALK

OWNER INFO:

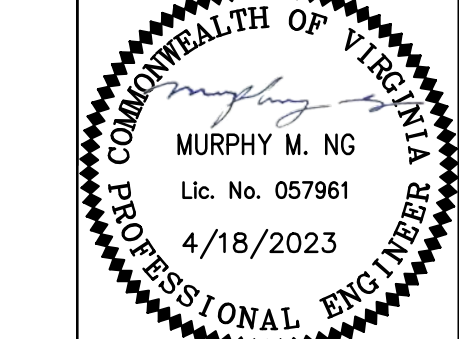
ATTN: MURPHY NG, EXT# 4699
DEPARTMENT OF PROJECT IMPLEMENTATION
CITY OF ALEXANDRIA
301 KING STREET, SUITE 3200
ALEXANDRIA, VA 22314



CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

| DATE | BY | DESCRIPTION |
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|-------------------------|-------------------|
| ALEXANDRIA PROJECT NO.: | 1903017 |
| DATE OF PLAN ISSUANCE: | N/A |
| CONSULTANT PROJECT ID.: | N/A |
| DESIGNED BY: | MIN DATE: 4/18/23 |
| DRAWN BY: | MIN DATE: 4/18/23 |
| CHECKED BY: | DK DATE: 4/18/23 |
| APPROVED BY: | TS DATE: 4/18/23 |



COVER SHEET

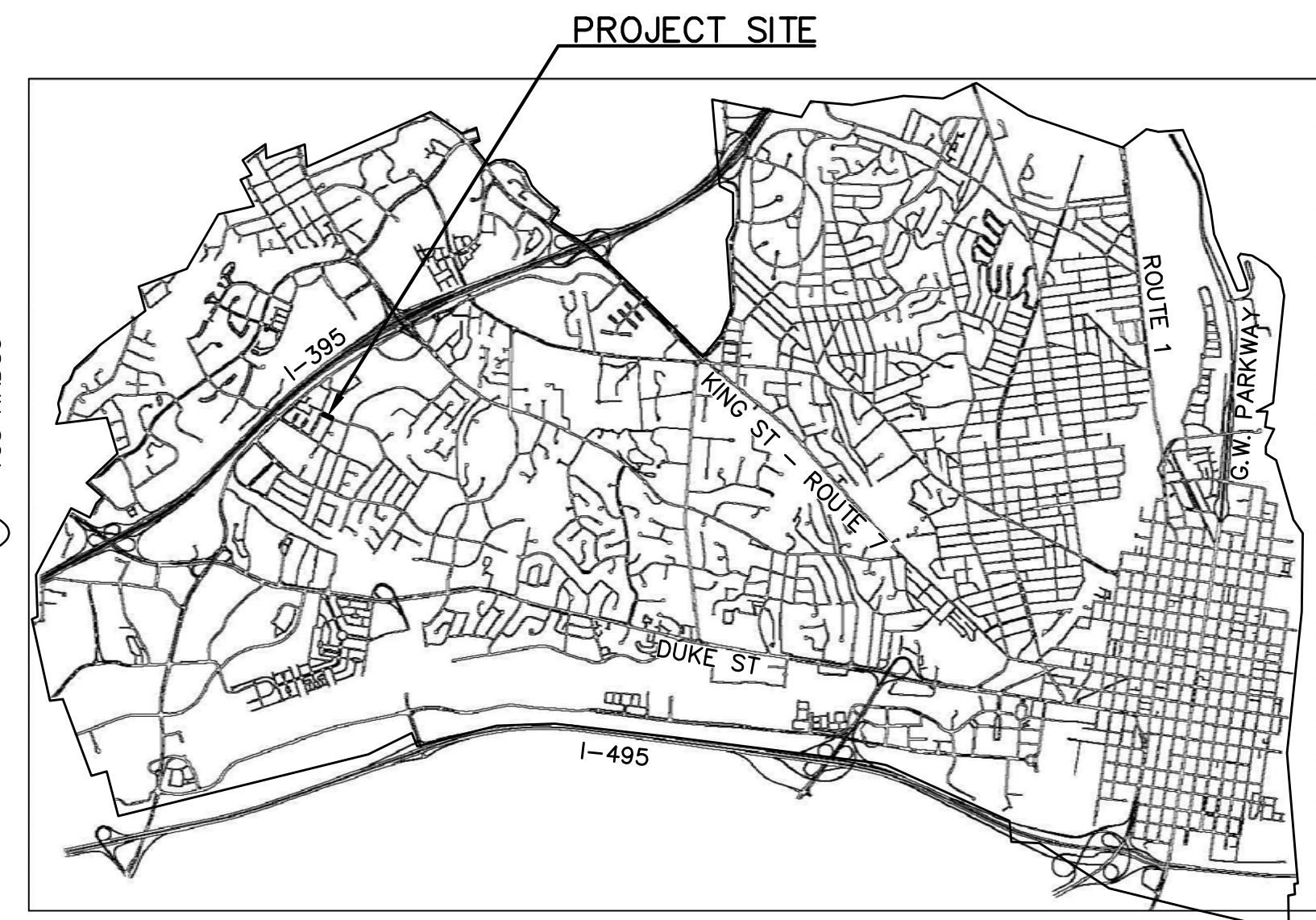
GI001
SHEET
01 of 10
SCALE AS SHOWN

POLK AVENUE SIDEWALK

100% DESIGN



PROJECT AREA MAP
SCALE 1" = 200'



VICINITY MAP
SCALE 1" = 4000'

| SHEET INDEX | | |
|-------------|--------------|-----------------------------------|
| SHEET TYPE | SHEET NUMBER | SHEET TITLE |
| GI001 | 01 | COVER SHEET |
| GI002 | 02 | GENERAL NOTES |
| GC101 | 03 | EROSION AND SEDIMENT CONTROL PLAN |
| VF101 | 04 | EXISTING CONDITIONS |
| CD101 | 05 | DEMOLITION PLAN |
| CS101 | 06 | SITE PLAN |
| CS501 | 07 | SITE DETAILS |
| CG101 | 08 | GRADING PLAN |
| CG701 | 09 | STORMWATER MANAGEMENT PLAN |
| CG702 | 10 | STORMWATER MANAGEMENT COMPLIANCE |

PROJECT DESCRIPTION:
THE PROJECT PROPOSE TO CONSTRUCT A CONCRETE SIDEWALK (APPROXIMATELY 280' IN LENGTH) ON THE NORTH SIDE OF POLK AVENUE BETWEEN NORTH PELHAM STREET AND PALMER PLACE.

DEPARTMENT OF TRANSPORTATION & ENVIRONMENTAL SERVICES.

APPROVED
X _____ DATE: _____
DIRECTOR

RECOMMENDED FOR APPROVAL
X _____ DATE: _____
DEPUTY DIRECTOR OF OPERATIONS

RECOMMENDED FOR APPROVAL
X _____ DATE: _____
DEPUTY DIRECTOR OF INFRASTRUCTURE & ENVIRONMENTAL QUALITY

RECOMMENDED FOR APPROVAL
X _____ DATE: _____
DEPUTY DIRECTOR OF RIGHT-OF-WAY & DEVELOPMENT SERVICES

RECOMMENDED FOR APPROVAL
X _____ DATE: _____
DEPUTY DIRECTOR OF TRANSPORTATION

DEPARTMENT OF PROJECT IMPLEMENTATION

APPROVED
X *[Signature]* DATE: 04/20/23
DIRECTOR

RECOMMENDED FOR APPROVAL
X *[Signature]* DATE: 4/19/2023
DIVISION CHIEF



C:\Users\murphyng\OneDrive - City of Alexandria\1903017 - Polk Avenue Sidewalk\200_Design\203_Technical\CAD_Sheets\01 COVER SHEET.dwg PLOTTED: 4/19/2023 3:56:58 PM BY MURPHY NG

PROJECT NARRATIVE

THE PURPOSE OF THIS PROJECT IS TO FILL A SIDEWALK GAP ON POLK AVENUE NEAR PELHAM STREET. CURRENTLY, THE EXISTING SIDEWALK ON POLK AVENUE ENDS, FORCING PEOPLE TO EITHER WALK IN THE STREET OR CROSS POLK AVENUE TO CONTINUE ALONG THEIR ROUTE. FILLING THIS SIDEWALK GAP WOULD PROVIDE A CONTINUOUS PATH FOR PEOPLE WALKING TO THE PARK, TO POLK ELEMENTARY, AND TO HAMMOND MIDDLE SCHOOL.

EXISTING CONDITIONS SURVEY NOTES

- HORIZONTAL DATUM: NAD 1983
VERTICAL DATUM: NAVD 1988
- UTILITY AND TOPOGRAPHY INFORMATION, AS SHOWN ON THIS PLAN, IS TAKEN FROM THE RECORDS AND/OR FIELD SURVEY COMPLETED BY THE CITY, DATED 11/2021; AND CANNOT BE GUARANTEED. FOR EXACT LOCATIONS OF EXISTING UNDERGROUND UTILITIES, NOTIFY MISS UTILITY AT 1-800-257-7777, 72 HOURS BEFORE THE START OF ANY EXCAVATION OR CONSTRUCTION.
- LOCATION AND DEPTH OF ALL EXISTING UNDERGROUND UTILITIES TO BE VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION.

CITY STANDARD GENERAL NOTES

- "CITY" MEANS THE CITY OF ALEXANDRIA, A MUNICIPAL CORPORATION OF VIRGINIA AND ITS AUTHORIZED REPRESENTATIVES AND EMPLOYEES.
- TOTAL SITE AREA: 4,514 SQUARE FEET OR 0.1036 ACRES OF WHICH 4,514 SQUARE FEET OR 0.1036 ACRES WILL BE DISTURBED WITH THIS PROJECT.
- THE NATURAL SOILS AT THE SITE CONSIST OF GRISS MILL - WOODSTOWN COMPLEX (HSG-D).
- THE SITE IS LOCATED IN THE HOLMES RUN WATERSHED.
- NO PORTION OF THE SUBJECT PROPERTY LIES WITHIN A CITY OF ALEXANDRIA RESOURCE PROTECTION AREA.
- ALL NEW CONSTRUCTION WILL CONFORM TO THE CURRENT STANDARDS AND SPECIFICATIONS OF THE CITY OF ALEXANDRIA AND/OR THE VIRGINIA DEPARTMENT OF TRANSPORTATION (VDOT) STANDARDS AND SPECIFICATIONS.
- ALL EROSION AND SEDIMENTATION CONTROL SHALL BE PLACED AND MAINTAINED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE CITY OF ALEXANDRIA AND/OR VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK (VESCH).
- ANY WORK IN THE PUBLIC RIGHT OF WAY SHALL REQUIRE A SEPARATE PERMIT FROM THE CITY.
- THERE IS NO OBSERVABLE EVIDENCE OF CEMETERIES OR BURIAL GROUNDS ON THIS PROJECT.

ARCHAEOLOGY NOTES

- THE CONTRACTOR SHALL CALL ALEXANDRIA ARCHAEOLOGY IMMEDIATELY (703-746-4399) IF ANY BURIED STRUCTURAL REMAINS (WALL FOUNDATIONS, WELLS, PRIVIES, CISTERNS, ETC.) OR CONCENTRATIONS OF ARTIFACTS ARE DISCOVERED DURING DEVELOPMENT. WORK MUST CEASE IN THE AREA OF THE DISCOVERY UNTIL A CITY ARCHAEOLOGIST COMES TO THE SITE AND RECORDS THE FINDS.
- THE CONTRACTOR SHALL NOT ALLOW ANY METAL DETECTION TO BE CONDUCTED ON THE PROPERTY, UNLESS AUTHORIZED BY ALEXANDRIA ARCHAEOLOGY.

ENVIRONMENTAL SITE ASSESSMENT

- THERE ARE NO TIDAL WETLANDS, TIDAL SHORES, TRIBUTARY STREAMS, FLOODPLAINS, CONNECTED TIDAL WETLANDS, ISOLATED WETLANDS, HIGHLY ERODIABLE/PERMEABLE SOILS OR BUFFER AREAS ASSOCIATED WITH SHORES, STREAMS, OR WETLANDS LOCATED ON THE SITE. FURTHER, THERE ARE NO WETLAND PERMITS REQUIRED FOR THIS DEVELOPMENT PROJECT. ADDITIONALLY, THERE ARE NO KNOWN UNDERGROUND STORAGE TANKS OR AREAS OF SOIL OR GROUNDWATER CONTAMINATION ON THE SITE.
- THE CITY OF ALEXANDRIA DEPARTMENT OF TRANSPORTATION AND ENVIRONMENTAL SERVICES, DIVISION OF ENVIRONMENTAL QUALITY MUST BE NOTIFIED IF UNUSUAL OR UNANTICIPATED CONTAMINATION OR UNDERGROUND STORAGE TANKS, DRUMS, AND CONTAINERS ARE ENCOUNTERED AT THE SITE. IF THERE IS ANY DOUBT ABOUT PUBLIC SAFETY OR A RELEASE TO THE ENVIRONMENT, THE ALEXANDRIA FIRE DEPARTMENT MUST BE CONTACTED IMMEDIATELY BY CALLING 911. THE TANK OR CONTAINER'S REMOVAL, ITS CONTENTS, ANY SOIL CONTAMINATION AND RELEASES TO THE ENVIRONMENT WILL BE HANDLED IN ACCORDANCE WITH FEDERAL, STATE, AND CITY REGULATIONS.
- ALL CONSTRUCTION ACTIVITIES MUST COMPLY WITH THE ALEXANDRIA NOISE CONTROL CODE TITLE 11, CHAPTER 5, WHICH PERMITS CONSTRUCTION ACTIVITIES TO OCCUR BETWEEN THE FOLLOWING HOURS:
A. MONDAY THROUGH FRIDAY FROM 7 AM TO 6 PM AND
B. SATURDAYS FROM 9 AM TO 6 PM.
C. NO CONSTRUCTION ACTIVITIES ARE PERMITTED ON SUNDAYS.
D. PILE DRIVING IS FURTHER RESTRICTED TO THE FOLLOWING HOURS:
MONDAY THROUGH FRIDAY FROM 9 AM TO 6 PM AND
SATURDAYS FROM 10 AM TO 4 PM.

UTILITY CONTACTS

| | |
|--------------------------------|--------------|
| DOMINION ENERGY | 703-838-2478 |
| VERIZON COMMUNICATIONS | 703-212-5261 |
| COMCAST | 703-926-0534 |
| WASHINGTON GAS | 703-750-4256 |
| PEPCO | 202-833-7500 |
| VIRGINIA AMERICAN WATER | 703-706-3889 |
| SANITARY SEWER - CITY OF ALEX. | 703-746-4014 |

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

CONSTRUCTION NOTES

- ALL WORK MUST BE PERFORMED IN STRICT COMPLIANCE WITH THE MOST CURRENT APPLICABLE FEDERAL, STATE, AND LOCAL LAWS AND REGULATIONS, INCLUDING BUT NOT LIMITED, TO ENVIRONMENTAL PROTECTION AGENCY (EPA), OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA), VIRGINIA OCCUPATIONAL AND SAFETY HEALTH COMPLIANCE PROGRAM (VOSH ENFORCEMENT), VIRGINIA OVERHEAD HIGH VOLTAGE LINE SAFETY ACT, NATIONAL EMISSIONS STANDARDS FOR HAZARDOUS AIR POLLUTANTS (NESHAPS), AND NATIONAL INSTITUTE OF OCCUPATIONAL SAFETY AND HEALTH (NIOSH).
- THE EXISTING UNDERGROUND UTILITIES SHOWN HEREON ARE BASED UPON AVAILABLE INFORMATION. THE CONTRACTOR MUST BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION OF ALL UTILITIES BEFORE COMMENCING WORK AND FOR ANY DAMAGES WHICH MAY OCCUR BY HIS FAILURE TO LOCATE OR PRESERVE THESE UNDERGROUND UTILITIES. IF DURING CONSTRUCTION OPERATIONS, THE CONTRACTOR SHOULD ENCOUNTER UTILITIES OTHER THAN THOSE SHOWN ON THE PLANS, HE MUST IMMEDIATELY NOTIFY THE CITY AND TAKE NECESSARY ACTION AND PROPER STEPS TO PROTECT THE FACILITY AND ASSURE THE CONTINUATION OF SERVICE.
- LOCATION AND DEPTH OF ALL EXISTING UNDERGROUND UTILITIES MUST BE VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION AND DIG TEST PITS AS REQUIRED. CONTRACTOR SHOULD DIG TEST PITS BY HAND AT ALL UTILITY CROSSINGS TO VERIFY THE EXACT LOCATION. ANY DISCREPANCIES ARE TO BE REPORTED IMMEDIATELY TO THE CITY. REDESIGN AND APPROVAL BY REVIEWING AGENCIES SHALL BE OBTAINED, IF REQUIRED.
- THE CONTRACTOR MUST WORK WITH THE CITY FOR THE COORDINATION OF WORK WITH REPRESENTATIVE UTILITY COMPANIES AND FOR THE IMPLEMENTATION OF REQUIRED UTILITY-RELATED WORK.
- THE CONTRACTOR MUST VISIT THE SITE AND MUST VERIFY EXISTING CONDITIONS PRIOR TO ANY LAND DISTURBING ACTIVITY.
- THE CONTRACTOR MUST IMMEDIATELY NOTIFY THE CITY UPON ENCOUNTERING ANY HAZARDOUS MATERIALS DURING DEMOLITION AND/OR CONSTRUCTION ACTIVITIES. THE CONTRACTOR MUST DOCUMENT SAME TO THE CITY AND OBTAIN DIRECTION AS TO THE APPROPRIATE ACTION(S) TO BE TAKEN.
- PRIOR TO REMOVAL OF MATERIALS OVER EXISTING UTILITY SYSTEMS, THE CONTRACTOR MUST DOCUMENT EXISTING CONDITIONS AND, IF AT VARIANCE WITH CONDITIONS AS REPRESENTED ON THE PLANS, NOTIFY THE CITY AND OBTAIN DIRECTION AS TO THE APPROPRIATE ACTION(S) TO BE TAKEN.
- PRIOR TO COMMENCING NEW WORK, THE CONTRACTOR MUST PROTECT FROM DAMAGE ALL EXISTING ADJACENT AREAS. ALL ADJACENT AREAS DAMAGED DURING DEMOLITION AND/OR CONSTRUCTION ACTIVITIES MUST BE RESTORED TO ORIGINAL OR BETTER CONDITION AT NO ADDITIONAL COST TO THE CITY.
- THE CONTRACTOR MUST PROTECT AND PREVENT DAMAGE TO EXISTING UTILITY DISTRIBUTION FACILITIES.
- EXISTING CONSTRUCTION MUST BE REMOVED TO NEAREST JOINT. NEW CONSTRUCTION MUST BE PROVIDED AS SHOWN AND ANY DAMAGED AREA MUST BE REPAIRED TO MATCH CONDITIONS EXISTING PRIOR TO CONSTRUCTION.
- THE CONTRACTOR MUST BE RESPONSIBLE FOR REPAIRS TO THE ADJACENT CURB, GUTTER, AND RIGHT-OF-WAY, IF DAMAGED DURING CONSTRUCTION ACTIVITY AS DETERMINED BY THE CITY.
- TOPS OF EXISTING STRUCTURES WHICH REMAIN IN USE ARE TO BE ADJUSTED IN ACCORDANCE WITH THE GRADING PLAN. ALL PROPOSED STRUCTURE TOP ELEVATIONS ARE TO BE VERIFIED BY THE CONTRACTOR WITH THE SITE GRADING PLANS. IN CASE OF CONFLICT, THE GRADING PLAN MUST SUPERSEDE PROFILE ELEVATIONS. ADJUSTMENTS TO MEET FINISHED GRADE ELEVATIONS MAY BE REQUIRED.
- THE CONTRACTOR MUST BACKFILL EXCAVATED AREAS WITH APPROVED MATERIALS AS PER THE CITY'S STANDARDS AND SPECIFICATIONS.
- SMOOTH GRADE MUST BE MAINTAINED FROM THE CENTERLINE OF THE EXISTING ROAD TO THE PROPOSED ENTRANCE AND/OR CURB & GUTTER TO PRECLUDE THE FORMING OF FALSE GUTTER AND/OR THE PONDING OF WATER ON THE ROADWAY.
- THE CONTRACTOR MUST ENSURE THAT POSITIVE DRAINAGE OCCURS ON SITE TO PREVENT PONDING OR DRAINAGE PROBLEMS ON ADJACENT PROPERTIES. NOTIFY THE CITY IF SITE CONDITIONS PREVENT POSITIVE DRAINAGE.
- CONTRACTOR MUST ENSURE THAT THERE IS NO DISTURBANCE ON ADJACENT PROPERTIES, UNLESS OTHERWISE NOTED ON PLANS.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN UTILITY SERVICES AT ALL TIMES DURING CONNECTION AND/OR CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL TRAFFIC CONTROL DURING CONSTRUCTION INCLUDING THE DEVELOPMENT OF TRAFFIC CONTROL PLANS. ALL TRAFFIC CONTROL COSTS FOR ALL STAGES MUST BE INCLUDED IN THE BID PRICE FOR "MAINTENANCE OF TRAFFIC (LS)."
- THE CONTRACTOR MUST FURNISH ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY FOR THE CONSTRUCTION OF THE WORK.

FIELD QUALITY CONTROL

- CONCRETE WORK
 - CONCRETE MATERIAL, MIXTURES, FORM WORK, COMPACTION REQUIREMENTS, INSTALLATION TOLERANCES AND JOINT MATERIAL SHALL CONFORM WITH VIRGINIA DEPARTMENT OF TRANSPORTATION, ROAD AND BRIDGE SPECIFICATIONS, 2016.
- ASPHALT WORK
 - ASPHALT PAVING SHALL COMPLY WITH MATERIALS, WORKMANSHIP, COMPACTION REQUIREMENTS, INSTALLATION TOLERANCES AND OTHER APPLICABLE REQUIREMENTS OF VIRGINIA DEPARTMENT OF TRANSPORTATION, ROAD AND BRIDGE SPECIFICATIONS, 2016.
 - FOR ALL ASPHALT PAVING, CONTRACTOR SHALL:
 - ENGAGE A QUALIFIED TESTING AGENCY TO PERFORM TESTS AND INSPECTIONS
 - REPLACE AND COMPACT HOT-MIX ASPHALT WHERE CORE TESTS WERE TAKEN
 - REMOVE AND REPLACE OR INSTALL ADDITIONAL HOT-MIX ASPHALT WHERE TEST RESULTS OR MEASUREMENTS INDICATE THAT IT DOES NOT COMPLY WITH SPECIFIED REQUIREMENTS.
- EARTHWORK
 - EXCAVATIONS, GRADING, BORROW MATERIALS, SUBBASE AND BASE MATERIAL, COMPACTION REQUIREMENTS SHALL CONFORM WITH VIRGINIA DEPARTMENT OF TRANSPORTATION, ROAD AND BRIDGE SPECIFICATIONS, 2016.
 - REMOVE ALL SURPLUS SOIL AND WASTE MATERIAL INCLUDING TRASH AND DEBRIS AND LEGALLY DISPOSE OF IT OFF PROJECT SITE.

LANDSCAPE PLANTING NOTES

- ALL LANDSCAPE RELATED WORK SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE CURRENT AND MOST UP-TO-DATE EDITION (AT TIME OF CONSTRUCTION) OF THE CITY OF ALEXANDRIA LANDSCAPE GUIDELINES, ANSI Z60.1-2014 AMERICAN STANDARD FOR NURSERY STOCK, AND LANDSCAPE SPECIFICATION GUIDELINES (6TH EDITION - 2014) AS PRODUCED BY THE LANDSCAPE CONTRACTORS ASSOCIATION OF MARYLAND, VIRGINIA, DISTRICT OF COLUMBIA AND VIRGINIA.
- PLANTING AREA SHALL BE FREE FROM DEBRIS, STONES, GRAVEL, OR OTHER FOREIGN MATTER PRIOR TO PLANTING, SEEDING, OR SODDING.

LANDSCAPE SPECIFICATION AND INSTALLATION

- SEED
 - PROCURE FROM NEW OF THE YEAR SEED CROPS, FREE OF FOREIGN MATERIAL OR WEED SEEDS.
 - FURNISH AND INSTALL PERMANENT SEEDING IN CONFORMANCE WITH THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK; SPECIFICATION 3.32- PERMANENT SEEDING (VESCH-PS).
 - PREPARE PLANTING AREA PER VESCH AND BY RAKING OUT AND REMOVING ALL DEBRIS OVER 1" IN DIAMETER.
 - PREPARE PLANTING AREA WITH SOIL CONDITIONER, TOPSOIL, AND/OR LIME, AS PER THE RECOMMENDATIONS OF A SOIL TEST CONDUCTED FOR HORTICULTURAL/LANDSCAPE PLANTING PER VESCH.
 - PACK OR ROLL SEED BEFORE AND AFTER SEEDING. SEEDBED SHOULD BE FIRM, SHOWING ONLY A SLIGHT IMPRINT WHEN STEPPED ON.
 - REPLACEMENT OR OVERSEEDING MIXES SHALL MATCH OR COMPLIMENT ORIGINAL INSTALLATION/EXISTING CONDITIONS SPECIFIED TO REMAIN.
 - PROVIDE CONTINUOUS UNIFORM AND CONSISTENT COVERAGE.
- TOPSOIL
 - SEE LANDSCAPE SPECIFICATION GUIDELINES REFERENCED IN PAGE 1 OF CITY OF ALEXANDRIA LANDSCAPE GUIDELINES.
 - SUITABLE TOPSOIL SHALL BE STRIPPED FROM EXCAVATIONS AND STOCKPILED FOR REUSE.
 - THE CONTRACTOR SHALL SUPPLY ANY ADDITIONAL MATERIAL AS REQUIRED. THIS SOIL SHALL BE FRIABLE LOAM, AND SHALL BE OBTAINED FROM NATURALLY WELL-DRAINED AREAS. IT SHALL BE FREE FROM SUBSOIL, CLAY LUMPS, STONES, STUMPS, ROOTS, BRUSH, WEEDS, LITTER, TRASH OR OTHER HARMFUL MATERIAL.

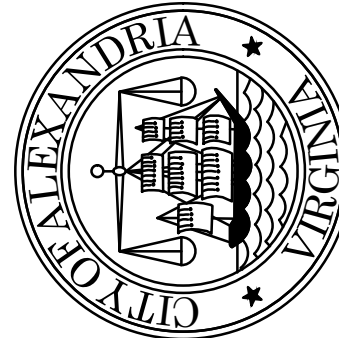
SIGNING AND PAVEMENT MARKING

- ALL SIGN WORK AND PAVEMENT MARKING SHALL MEET ALL THE LATEST APPLICABLE VDOT, CITY OF ALEXANDRIA STANDARDS, AND MANUAL ON UNIFORM TRAFFIC CONTROL (MUTCD) REQUIREMENTS.
- ALL PAVEMENT MARKINGS ARE THERMOPLASTIC UNLESS OTHERWISE NOTED.
- ALL EXISTING PAVEMENT MARKINGS MAY NOT BE SHOWN. ALL EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH PROPOSED PAVEMENT MARKINGS SHALL BE ERADICATED.
- ALL SIGNS SHALL BE HIGH INTENSITY SHEETING MEETING THE REQUIREMENTS OF AASHTO M268.
- NO PORTION OF PROPOSED SIGN PANEL SHALL OVERHANG ADJACENT ROADWAY PAVEMENT. I.E. SHALL NOT HANG IN FRONT OF FACE OF CURB.
- PROPOSED SIGN POSTS SHALL BE LOCATED A MINIMUM OF 2 FEET BEHIND ANY ADJACENT FACE OF CURB (ADDITIONAL REQUIREMENTS APPLY TO ACCOMMODATE SIGN PANEL LATERAL AND VERTICAL CLEARANCE). IF LOCATED ADJACENT TO SIDEWALKS, A 32" MINIMUM CLEAR AND 48" PREFERRED PASSING SPACE ON EXISTING AND PROPOSED SIDEWALKS SHALL BE MAINTAINED.
- PROPOSED SIGN POSTS SHALL BE INSTALLED IN NEW LOCATIONS SUCH THAT THE EXISTING SIGNS OR SIGNALS ARE NOT BLOCKED.
- FOR NEW POST INSTALLATION, THE CONTRACTOR SHALL VERIFY THERE ARE NO CONFLICTING UNDERGROUND OR OVERHEAD UTILITIES.
- SIGNS MOUNTED TO EXISTING LIGHT, SIGNAL OR UTILITY POLES SHALL BE FASTENED WITH A MANUFACTURED STEEL BANDING SYSTEM. POLES SHALL NOT BE DRILLED DIRECTLY, THE CONTRACTOR SHALL SUBMIT MANUFACTURER INFORMATION ON THE BANDING SYSTEM TO THE CITY FOR APPROVAL PRIOR TO INSTALLATION.

ABBREVIATIONS

| | | |
|--------|---|-------------------------------|
| A | - | AREA |
| AMP | - | IMPERVIOUS AREA |
| APP | - | APPROXIMATE |
| CO | - | CLEANOUT |
| COMM | - | COMMUNICATIONS |
| CONC | - | CONCRETE |
| CMU | - | CONCRETE MASONRY UNIT |
| CRZ | - | CRITICAL ROOT ZONE |
| CSO | - | COMBINED SEWER OVERFLOW |
| D.A. | - | DRAINAGE AREA |
| DBH | - | DIAMETER AT BREAST HEIGHT |
| E | - | EASTING |
| EL | - | ELEVATION |
| EX | - | EXISTING |
| FH | - | FIRE HYDRANT |
| FL | - | FLOW LINE |
| GB | - | GRADE BREAK POINT |
| HP | - | HIGH POINT |
| IP | - | INLET PROTECTION |
| LOD | - | LIMITS OF DISTURBANCE |
| LT | - | LIGHT |
| MH | - | MANHOLE |
| N | - | NORTHING |
| NAD | - | NORTH AMERICAN DATUM |
| NPS | - | NOMINAL PIPE SIZE |
| PC | - | POINT OF CURVATURE |
| PT | - | POINT OF TANGENCY |
| PED | - | PEDESTRIAN |
| PR | - | PROVIDE |
| PROP | - | PROPOSED |
| ROW | - | RIGHT OF WAY |
| SB | - | SANDBAG BARRIER |
| SAN | - | SANITARY SEWER |
| STM | - | STORM SEWER |
| SRZ | - | STRUCTURAL CRITICAL ROOT ZONE |
| TRAF | - | TRAFFIC |
| Tc | - | TIME OF CONCENTRATION |
| TC | - | TOP OF CURB |
| TOC | - | TOP OF CURB |
| TYP | - | TYPICAL |
| TW | - | TOP OF WALL |
| BW | - | BOTTOM OF WALL |
| U.N.O. | - | UNLESS NOTED OTHERWISE |
| VCS | - | VIRGINIA COORDINATE SYSTEM |
| WTR | - | WATERLINE |
| WV | - | WATER VALVE |
| X-ING | - | CROSSING |
| D.B. | - | DEED BOOK |
| PG | - | PAGE |

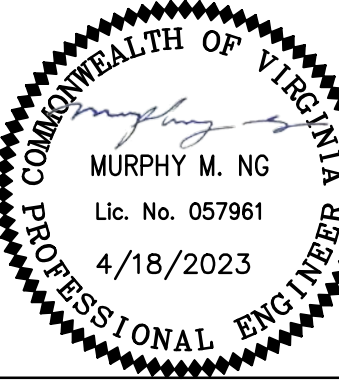
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CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

| REVISIONS | DESCRIPTION |
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| ALEXANDRIA PROJECT NO.: | 1903017 |
| DATE OF PLAN ISSUANCE: | N/A |
| CONSULTANT PROJECT ID.: | N/A |
| DESIGNED BY: | MM DATE: 4/18/23 |
| DRAWN BY: | MM DATE: 4/18/23 |
| CHECKED BY: | DK DATE: 4/18/23 |
| APPROVED BY: | TS DATE: 4/18/23 |



POLK AVENUE SIDEWALK

GENERAL NOTES

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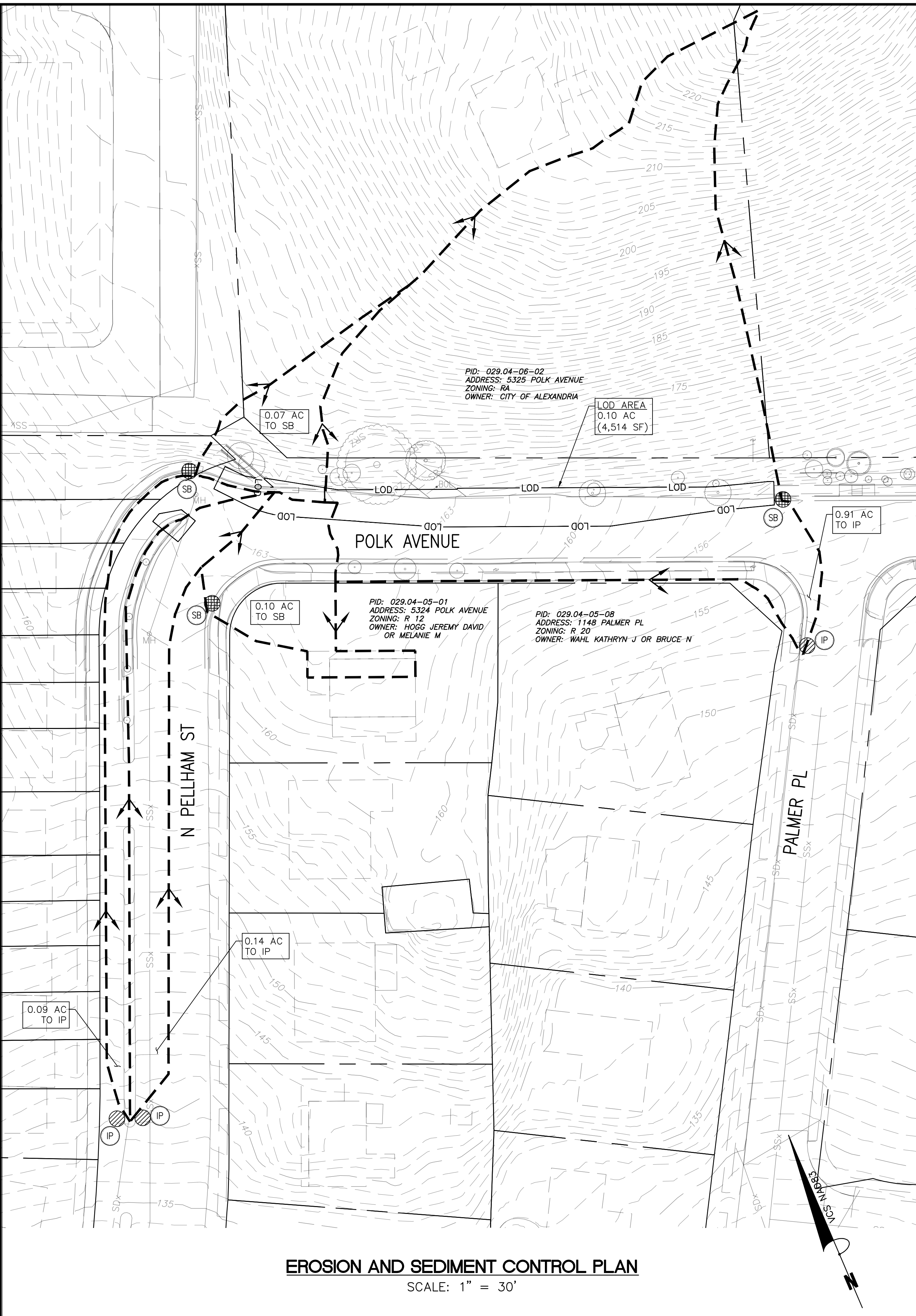
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02 of 10

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EROSION AND SEDIMENT CONTROL PLAN
SCALE: 1" = 30'

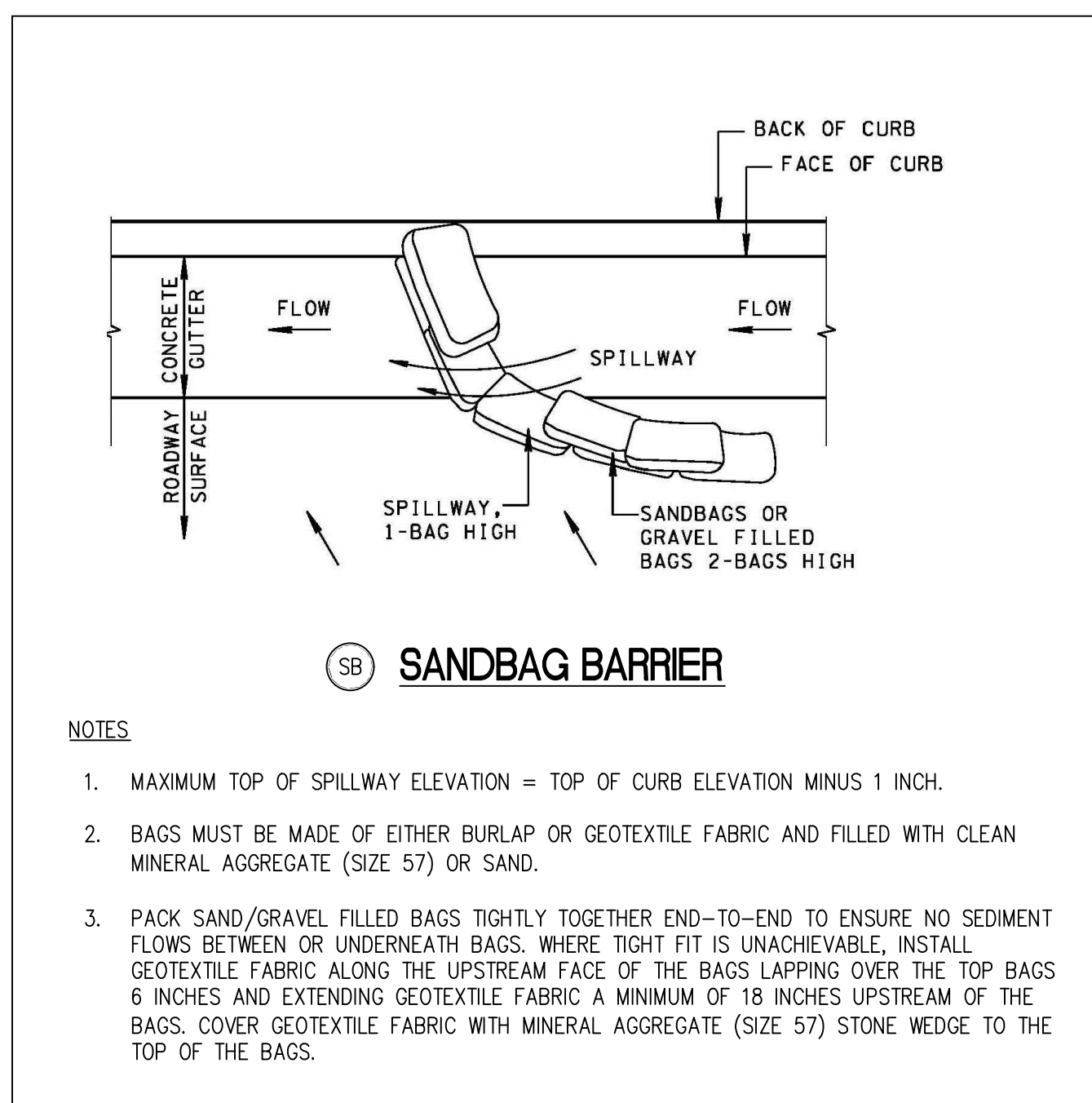
POLLUTION PREVENTION NOTES

- ALL SAW CUTTING AND DEMOLITION MUST INCLUDE WATER FOR DUST SUPPRESSION. INLETS MUST BE PROTECTED AND SLURRY MUST NOT ENTER THE STORM INLET. WASTE MATERIALS MUST BE COLLECTED USING DRY TECHNIQUES (SHOVEL, BROOM, ETC.) AND NOT WASHED DOWN THE INLETS.
- ENSURE THE STAGING/STORAGE/APPLICATION/CLEAN-UP OF GAS, CHEMICALS, AND OILS (INCLUDING FORM RELEASE OIL) IS SUCH AS TO PREVENT BEING WASHED DOWN THE INLETS.
- ENSURE DISCHARGE OF SOAPS, SOLVENTS, DETERGENTS, WASH WATER AND CONSTRUCTION MATERIALS, INCLUDING THE CLEAN-UP OF STUCCO, VEHICLE AND EQUIPMENT WASH WATER, PAINT, FORM RELEASE OILS AND CURING COMPOUNDS (COVER, PLASTIC SHEETING OR TEMPORARY ROOFS) AND PROVIDE COLLECTION AND PROPER DISPOSAL TO PREVENT CONTACT WITH STORMWATER.
- CONTRACTOR SHALL EXERCISE EFFORT TO PREVENT THE DISCHARGE OF FUELS, OILS AND OTHER PETROLEUM PRODUCTS, HAZARDOUS OR TOXIC WASTES, SANITARY WASTES, SPILLED AND LEAKED FUELS/CHEMICALS FROM VEHICLES AND EQUIPMENT (I.E. SPILL KITS, SPILL CONTAINMENT, ETC.).
- CONTRACTOR TO MINIMIZE THE DISCHARGE OF POLLUTANTS FROM STORAGE, HANDLING AND DISPOSAL OF CONSTRUCTION PRODUCTS; BUILDING PRODUCTS; PESTICIDES, HERBICIDES, INSECTICIDES, FERTILIZERS AND LANDSCAPE MATERIAL; AND DOMESTIC WASTES.
- CONTRACTOR TO PROVIDE PROPOSED LOCATION OF CONCRETE MIXING TO BE APPROVED BY THE CITY.
- CONTRACTOR TO DIRECT CONCRETE WASH WATER INTO A LEAK-PROOF CONTAINER OR LEAK-PROOF SETTLING BASIN, WITH HARDENED CONCRETE WASTES AND LIQUID CONCRETE WASTES PROPERLY DISPOSED OF AS CONSTRUCTION WASTES.
- TO REPORT LEAKS, SPILLS AND OTHER RELEASES, CONTACT:

| | | |
|---|----------------|--|
| FIRE DEPARTMENT T&ES | 703-838-4660 | FOR HAZARDOUS DISCHARGES |
| | 703-746-4065 | FOR DISCHARGES TO STORM SEWER |
| DEQ NORTHERN VIRGINIA REGIONAL OFFICE | 703-583-3870 | FOR PETROLEUM THAT REACHES SURFACE WATER DURING NORMAL HOURS |
| VIRGINIA DEPARTMENT OF EMERGENCY MANAGEMENT | 1-800-468-8892 | FOR PETROLEUM THAT REACHES SURFACE WATER 24 HOUR |

ARCHAEOLOGY NOTES

- THE CONTRACTOR SHALL CALL ALEXANDRIA ARCHAEOLOGY IMMEDIATELY (703-746-4399) IF ANY BURIED STRUCTURAL REMAINS (WALL FOUNDATIONS, WELLS, PRIVES, CISTERNS, ETC.) OR CONCENTRATIONS OF ARTIFACTS ARE DISCOVERED DURING DEVELOPMENT. WORK MUST CEASE IN THE AREA OF THE DISCOVERY UNTIL A CITY ARCHAEOLOGIST COMES TO THE SITE AND RECORDS THE FINDS.
- THE CONTRACTOR SHALL NOT ALLOW ANY METAL DETECTION TO BE CONDUCTED ON THE PROPERTY, UNLESS AUTHORIZED BY ALEXANDRIA ARCHAEOLOGY.



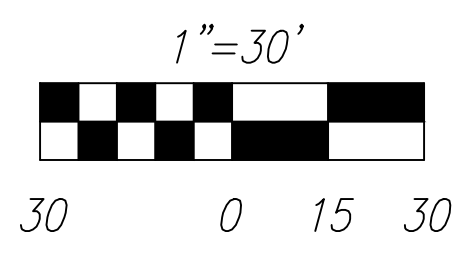
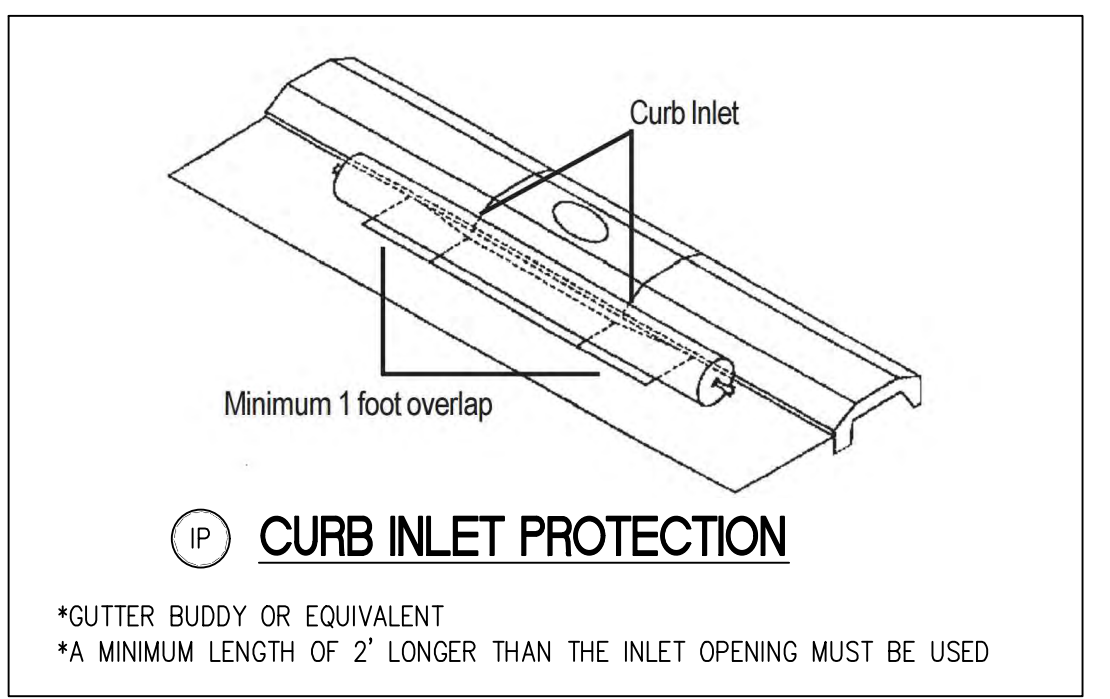
- NOTES**
- MAXIMUM TOP OF SPILLWAY ELEVATION = TOP OF CURB ELEVATION MINUS 1 INCH.
 - BAGS MUST BE MADE OF EITHER BURLAP OR GEOTEXTILE FABRIC AND FILLED WITH CLEAN MINERAL AGGREGATE (SIZE 57) OR SAND.
 - PACK SAND/GRAVEL FILLED BAGS TIGHTLY TOGETHER END-TO-END TO ENSURE NO SEDIMENT FLOWS BETWEEN OR UNDERNEATH BAGS. WHERE TIGHT FIT IS UNACHIEVABLE, INSTALL GEOTEXTILE FABRIC ALONG THE UPSTREAM FACE OF THE BAGS LAPPING OVER THE TOP BAGS 6 INCHES AND EXTENDING GEOTEXTILE FABRIC A MINIMUM OF 18 INCHES UPSTREAM OF THE BAGS. COVER GEOTEXTILE FABRIC WITH MINERAL AGGREGATE (SIZE 57) STONE WEDGE TO THE TOP OF THE BAGS.

GENERAL EROSION AND SEDIMENT CONTROL NOTES

- ALL EROSION AND SEDIMENT CONTROL MEASURE ARE TO BE PLACED PRIOR TO OR AS THE FIRST STEP IN CLEARING. AN INSPECTION BY THE CITY OF ALEXANDRIA IS REQUIRED AFTER INITIAL INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND BEFORE ANY CLEARING OR GRADING CAN BEGIN.
- THE CONTRACTORS ARE TO KEEP DENUDED AREAS TO A MINIMUM.
- THE CITY MUST BE NOTIFIED ONE WEEK PRIOR TO THE PRE-CONSTRUCTION CONFERENCE, ONE WEEK PRIOR TO THE COMMENCEMENTS OF LAND DISTURBING ACTIVITY, AND ONE WEEK PRIOR TO THE FINAL INSPECTION. CERTIFIED RESPONSIBLE LAND DISTURBER (CRLD) IS REQUIRED TO ATTEND PRE-CONSTRUCTION MEETING.
- A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
- PRIOR TO COMMENCING LAND DISTURBING ACTIVITIES IN AREAS OTHER THAN THOSE INDICATED ON THESE PLANS INCLUDING, BUT NOT LIMITED TO, OFF-SITE BORROW OR WASTE AREAS, THE CONTRACTOR SHALL SUBMIT A SUPPLEMENTARY EROSION CONTROL PLAN TO THE CITY FOR REVIEW AND APPROVAL.
- ALL DISTURBED AREAS OF THE SITE NOT TO BE WORKED FOR SEVEN OR MORE CALENDAR DAYS MUST BE STABILIZED.
- ALL TEMPORARY EARTH BERMS, DIVERSIONS AND SEDIMENT CONTROL DAMS SHALL BE SEEDED AND MULCHED OR OTHERWISE STABILIZED AS SOON AS POSSIBLE BUT NO LATER THAN 48 HOURS AFTER GRADING.
- 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 OPERATION, WATER WILL BE PUMPED THROUGH AND APPROVED FILTERING DEVICE.
- THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES DAILY 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.
- PERMANENT OR TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO DENUDED AREAS WITHIN SEVEN DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE. TEMPORARY SOIL STABILIZATION SHALL BE APPLIED WITHIN SEVEN DAYS TO DENUDED AREAS THAT MAY NOT BE AT FINAL GRADE BUT WILL REMAIN DORMANT FOR LONGER THAN 30 DAYS. PERMANENT STABILIZATION SHALL BE APPLIED TO AREAS THAT ARE TO BE LEFT DORMANT FOR MORE THAN ONE YEAR.
- STOCKPILE BORROW SOIL MATERIALS AND EXCAVATED SATISFACTORY SOIL MATERIALS WITHOUT INTERMIXING. PLACE, GRADE, AND SHAPE STOCKPILES TO DRAIN SURFACE WATER AND COVER TO PREVENT WINDBLOWN DUST IN CONFORMANCE WITH VESCH, CHAPTER 3.
- THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES AS NECESSARY TO PREVENT EROSION AND SEDIMENTATION AND AS DETERMINED BY THE CITY OF ALEXANDRIA.
- PROVIDE TREE PROTECTION FENCING AS DIRECTED BY THE EROSION AND SEDIMENT CONTROL INSPECTOR.
- ANY DENUDED SLOPES, EITHER DISTURBED OR CREATED BY THIS PLAN THAT EXCEED 2500 SQUARE FEET SHALL BE SODDED AND PEGGED FOR STABILITY AND EROSION CONTROL. AT THE COMPLETION OF THE PROJECT, ALL DISTURBED AREAS SHALL BE STABILIZED PERMANENTLY AND ALL TEMPORARY EROSION AND SEDIMENT CONTROLS SHALL BE REMOVED.
- SEE POLLUTION PREVENTION NOTES FOR ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES.

SEQUENCE OF CONSTRUCTION

- INSTALL EROSION AND SEDIMENT CONTROLS.
- CONDUCT DEMOLITION AND CONSTRUCTION ACTIVITIES ACCORDING TO THE APPLICABLE PLANS. INSTALL ADDITIONAL EROSION AND SEDIMENT CONTROL PRACTICES AS NECESSARY AND AS DIRECTED BY THE EROSION AND SEDIMENT CONTROL INSPECTOR.
- AS CONTRIBUTORY DRAINAGE AREAS ARE STABILIZED AND WITH THE PERMISSION OF THE EROSION AND SEDIMENT CONTROL INSPECTOR, REMOVE INDIVIDUAL EROSION AND SEDIMENT CONTROL PRACTICES. UPON COMPLETION OF DEMOLITION, CONSTRUCTION AND LAND DISTURBING ACTIVITIES AND WITH THE APPROVAL OF THE EROSION AND SEDIMENT CONTROL INSPECTOR; REMOVE ALL REMAINING EROSION AND SEDIMENT CONTROL PRACTICES AND PROVIDE PERMANENT STABILIZATION ACCORDING TO APPROVED METHODS.
- CONSTRUCTION DEBRIS MUST BE REMOVED TO AN APPROVED LANDFILL WITH ADEQUATE FREQUENCY IN ACCORDANCE WITH THE VIRGINIA STATE LITTER CONTROL ACT.



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DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

| REVISIONS | DESCRIPTION |
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ALEXANDRIA PROJECT NO.: 1903017
DATE OF PLAN ISSUANCE: N/A
CONSULTANT PROJECT ID: N/A
DESIGNED BY: MN DATE: 4/18/23
DRAWN BY: MN DATE: 4/18/23
CHECKED BY: DK DATE: 4/18/23
APPROVED BY: TS DATE: 4/18/23

COMMONWEALTH OF VIRGINIA
MURPHY M. NG
Lic. No. 057961
4/18/2023
PROFESSIONAL ENGINEER

EROSION AND SEDIMENT CONTROL PLAN

POLK AVENUE SIDEWALK

GC101
SHEET
03 of 10
SCALE 1"=30'

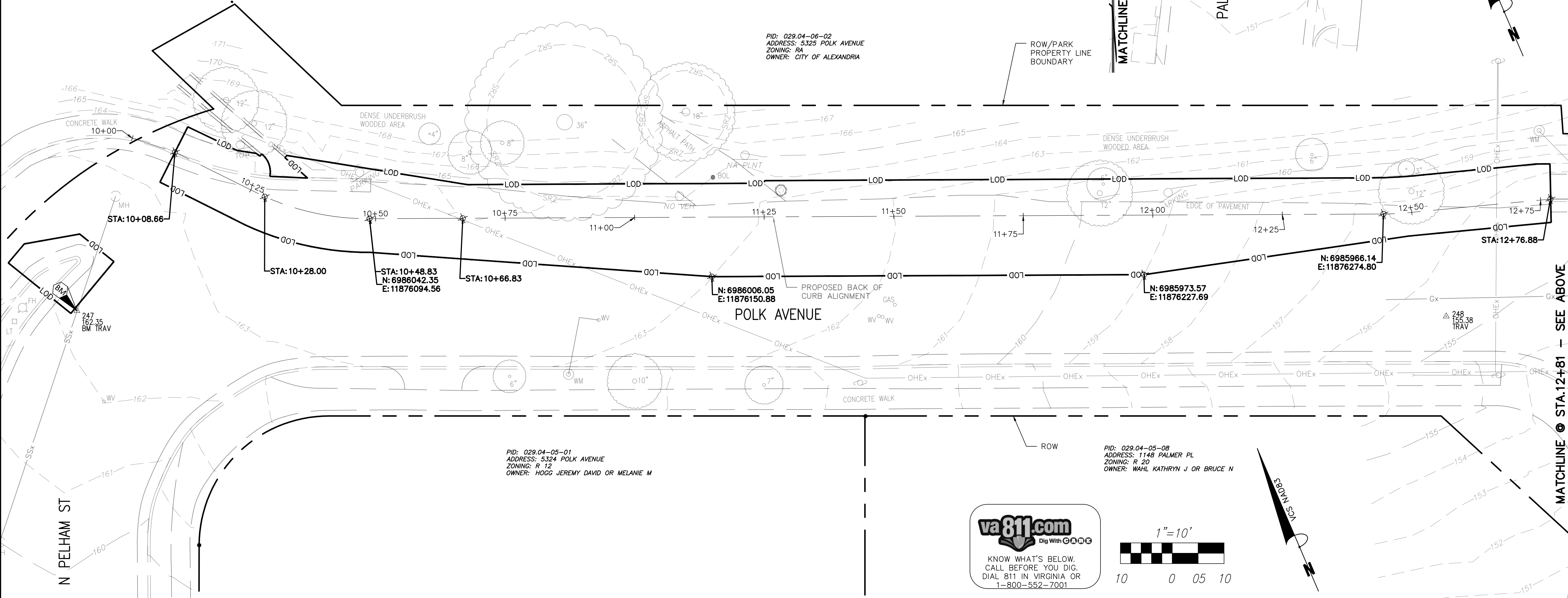
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LEGEND

| | EXISTING | EXISTING |
|--------------------------|------------|------------------------------|
| TREE | SRZ DBH | |
| SANITARY SEWER | SSx | WATER LINE WLx |
| SANITARY SEWER MANHOLE | MH | WATER METER WM |
| UTILITY POLE | UP | WATER VALVE WV |
| GUY WIRE | GW | FIRE HYDRANT FH |
| LIGHT POLE | LT | SIGN S |
| OVERHEAD ELECTRICAL LINE | OHEx | BOLLARD BOL |
| GAS LINE | Gx | TRASH RECEPTACLE TR |
| GAS VALVE | GAS | CURB AND GUTTER CG |
| | | FENCE Fx |
| | | INDEX CONTOUR IC |
| | | INTERMEDIATE CONTOUR IC |
| | | RIGHT-OF-WAY ROW |
| | | LIMITS OF DISTURBANCE LOD |

| SURVEY CONTROL POINTS | | | | |
|-----------------------|------------|-------------|-----------|-------------|
| POINT # | NORTHING | EASTING | ELEVATION | DESCRIPTION |
| 247 | 6986048.22 | 11876035.63 | 162.35 | BM TRAV |
| 349 | 6985929.55 | 11876306.83 | 154.14 | BM TRAV |

△ - DENOTES SURVEY CONTROL POINT LOCATION
 BM - DENOTES BENCHMARK LOCATION



PID: 029.04-06-02
 ADDRESS: 5325 POLK AVENUE
 ZONING: RA
 OWNER: CITY OF ALEXANDRIA

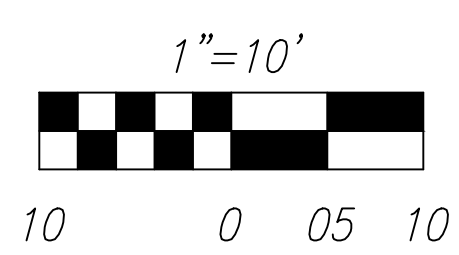
N: 6986006.05
 E: 11876150.88

N: 6985973.57
 E: 11876227.69

PID: 029.04-05-01
 ADDRESS: 5324 POLK AVENUE
 ZONING: R 12
 OWNER: HOGG JEREMY DAVID OR MELANIE M

PID: 029.04-05-08
 ADDRESS: 1148 PALMER PL
 ZONING: R 20
 OWNER: WAHL KATHRYN J OR BRUCE N

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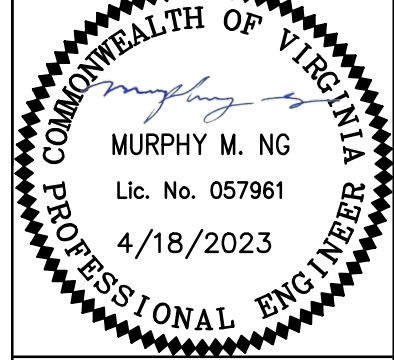
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 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

| REVISIONS | DESCRIPTION |
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| DATE | BY |

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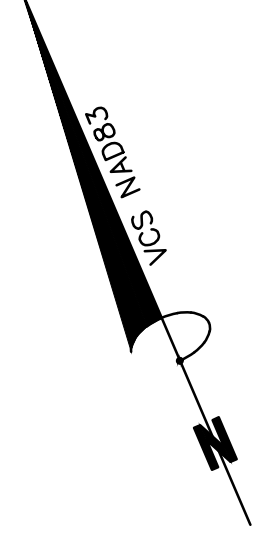
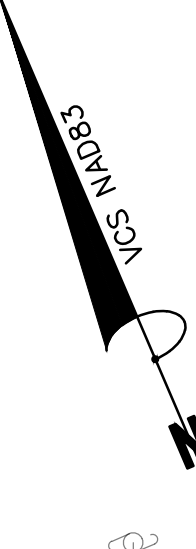
EXISTING CONDITIONS

VF101
 SHEET
 04 of 10
 SCALE 1"=10'

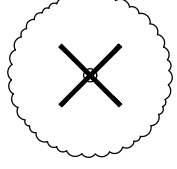


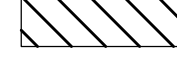
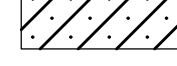
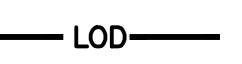
POLK AVENUE SIDEWALK

MATCHLINE @ STA. 12+81 - SEE ABOVE

MATCHLINE @ STA. 12+81 - SEE BELOW



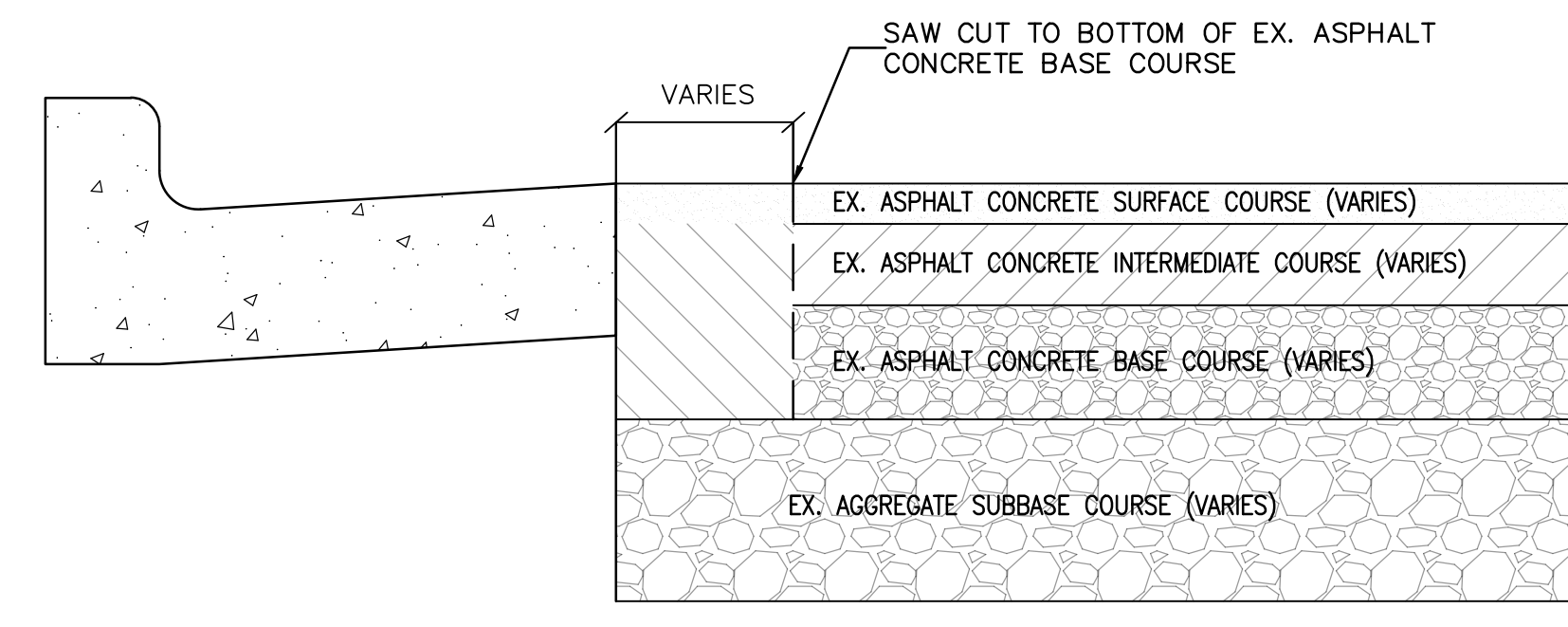
LEGEND

- REMOVE EXISTING TREE 
- REMOVE EXISTING CURB AND GUTTER 
- REMOVE EXISTING PAVEMENT 
- REMOVE EXISTING CONCRETE SIDEWALK 
- CLEAR AND GRUB AREA (PRUNE ROOTS AT LOD) 
- LIMITS OF DISTURBANCE 

(SEE EXISTING CONDITIONS ON SHEET VF101)

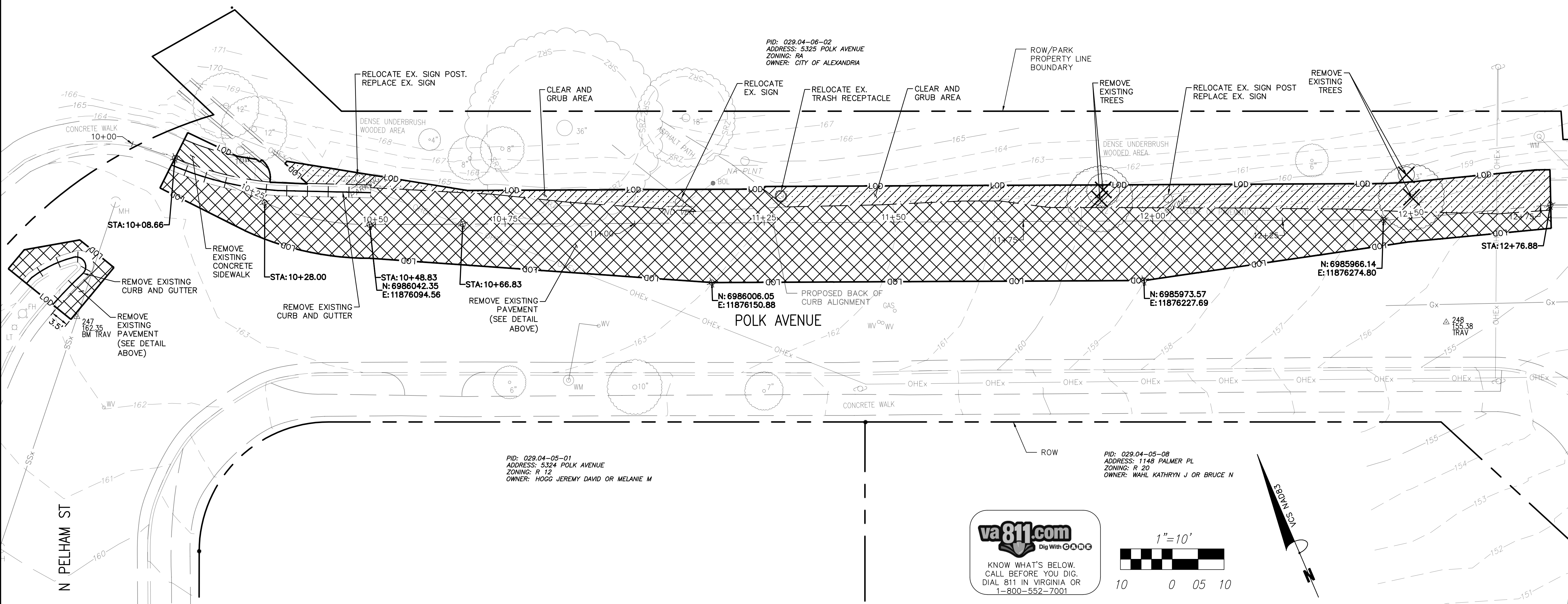
DEMOLITION NOTES

1. NO DEMOLITION CAN BEGIN UNTIL ALL EROSION AND SEDIMENT CONTROLS ARE IN PLACE, AND IS APPROVED BY AN EROSION AND SEDIMENT CONTROL INSPECTOR OF THE CITY.
2. DISCONNECTION OF SERVICES AND SYSTEMS SUPPLYING UTILITIES TO BE ABANDONED OR DEMOLISHED SHALL BE COMPLETED PRIOR TO OTHER SITE DEMOLITION IN FULL COMPLIANCE WITH APPLICABLE CODES, REGULATIONS, AND THE REQUIREMENTS OF UTILITY PURVEYORS HAVING JURISDICTION.
3. DURING DEMOLITION AND/OR CONSTRUCTION ACTIVITIES, THE CONTRACTOR MUST IMMEDIATELY NOTIFY THE CITY UPON ENCOUNTERING ANY EXISTING UTILITIES AND/OR UTILITY SYSTEM STRUCTURES NOT SHOWN ON THESE PLANS. THE CONTRACTOR MUST DOCUMENT SAME TO THE CITY AND OBTAIN DIRECTION AS TO THE APPROPRIATE ACTION(S) TO BE TAKEN.
4. CONTRACTOR MUST EXERCISE CAUTION WHILE DEMOLISHING NEXT TO EXISTING UTILITIES, SITE FEATURES AND STRUCTURES. ANY DAMAGE SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE CITY.
5. REMOVAL ITEMS INCLUDE SAW-CUTTING, DEMOLISHING, HAULING AND LEGALLY DISPOSING MATERIAL OFF PROJECT SITE.
6. THE CONTRACTOR SHALL CALL ALEXANDRIA ARCHAEOLOGY IMMEDIATELY (703-746-4399) IF ANY BURIED STRUCTURAL REMAINS (WALL FOUNDATIONS, WELLS, PRIVIES, CISTERNS, ETC.) OR CONCENTRATIONS OF ARTIFACTS ARE DISCOVERED DURING DEVELOPMENT. WORK MUST CEASE IN THE AREA OF THE DISCOVERY UNTIL A CITY ARCHAEOLOGIST COMES TO THE SITE AND RECORDS THE FINDS.
7. THE CONTRACTOR SHALL NOT ALLOW ANY METAL DETECTION TO BE CONDUCTED ON THE PROPERTY, UNLESS AUTHORIZED BY ALEXANDRIA ARCHAEOLOGY.

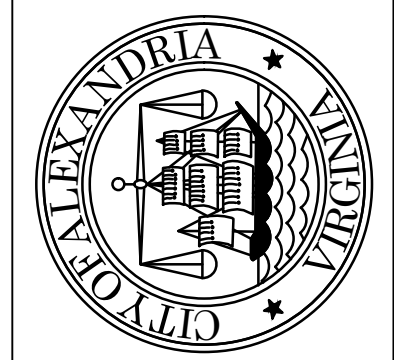


PAVEMENT REMOVAL DETAIL

N.T.S.



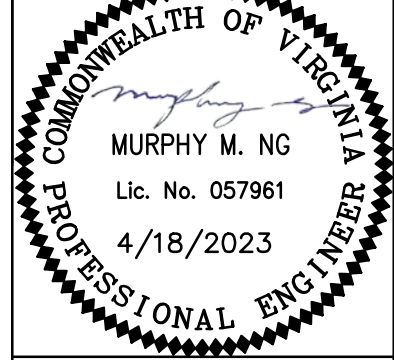
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DEPARTMENT OF PROJECT IMPLEMENTATION
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| REVISIONS | DESCRIPTION |
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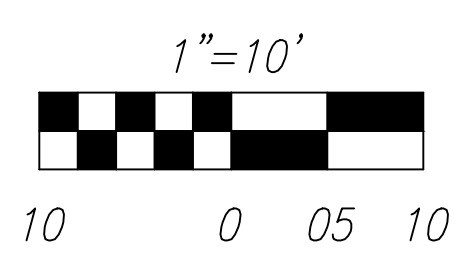
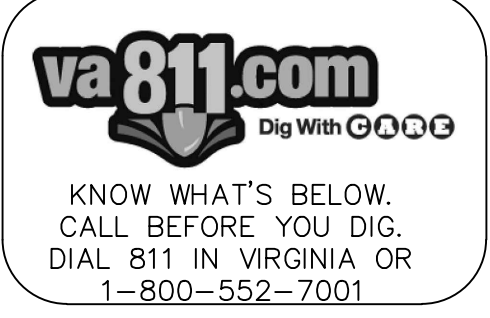
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| CONSULTANT PROJECT ID.: | N/A |
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| DRAWN BY: | MM DATE: 4/18/23 |
| CHECKED BY: | DK DATE: 4/18/23 |
| APPROVED BY: | TS DATE: 4/18/23 |



POLK AVENUE SIDEWALK

DEMOLITION PLAN

CD101
SHEET
05 of 10
SCALE 1"=10'



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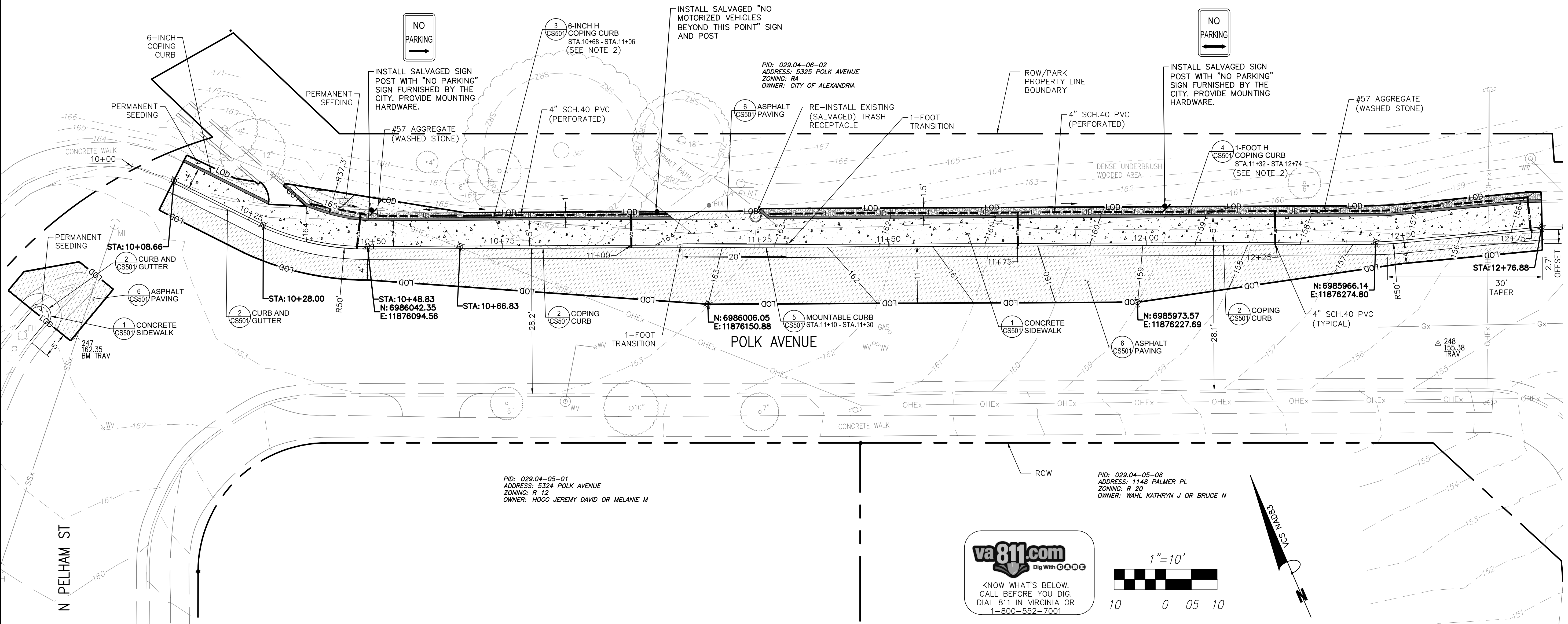
LEGEND

| | |
|--------------------------------|--|
| CONCRETE SIDEWALK (CSSW-1) | |
| #57 AGGREGATE (WASHED STONE) | |
| PERMANENT SEEDING | |
| ASPHALT PAVEMENT | |
| CONCRETE COPING CURB | |
| 4-INCH SCH.40 PVC | |
| 4-INCH SCH.40 PVC (PERFORATED) | |
| EXISTING CONTOUR | |
| PROPOSED CONTOUR | |
| LIMITS OF DISTURBANCE | |

(SEE EXISTING CONDITIONS ON SHEET VF101)

NOTE:

1. ALL PIPES BENEATH CONCRETE SIDEWALK MUST BE NON-PERFORATED AND HAVE A MINIMUM OF 2 INCHES OF COVER. CONTRACTOR TO PROVIDE ALL PIPE FITTINGS TO MAKE ANY CONNECTIONS AND/OR EXTENSIONS.
2. REFER TO TYPICAL SECTIONS FOR 1-FOOT H COPING CURB AND 6-INCH H COPING CURB ON SHEET CS501. SEE GRADING PLAN ON SHEET CG101 FOR CURB TRANSITIONS AND CURB HEIGHTS OUTSIDE OF TYPICAL SECTIONS.
3. THE CONTRACTOR SHALL CALL ALEXANDRIA ARCHAEOLOGY IMMEDIATELY (703-746-4399) IF ANY BURIED STRUCTURAL REMAINS (WALL FOUNDATIONS, WELLS, PRIVIES, CISTERNS, ETC.) OR CONCENTRATIONS OF ARTIFACTS ARE DISCOVERED DURING DEVELOPMENT. WORK MUST CEASE IN THE AREA OF THE DISCOVERY UNTIL A CITY ARCHAEOLOGIST COMES TO THE SITE AND RECORDS THE FINDS.
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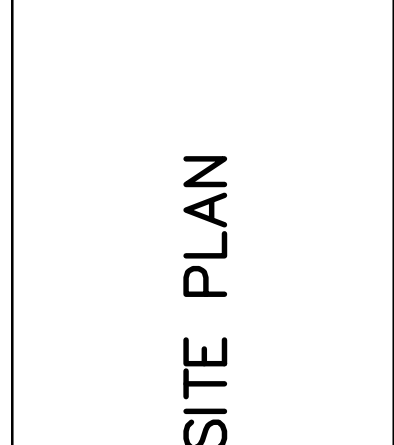
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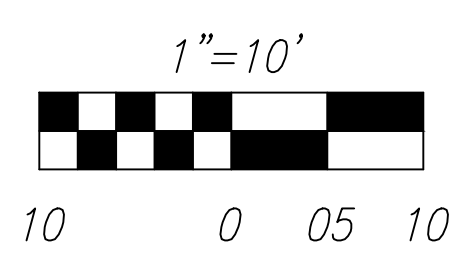
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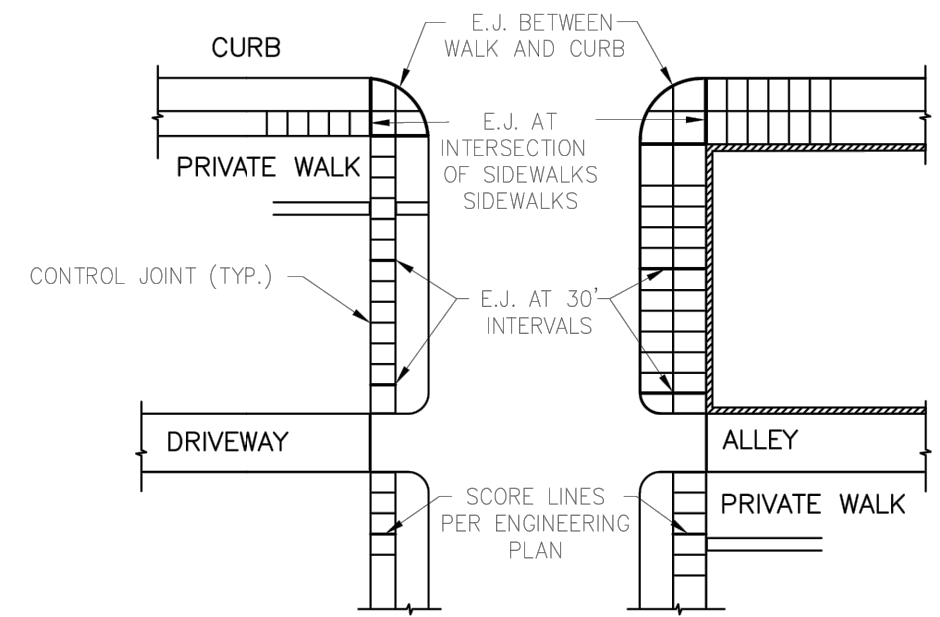
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 CONSULTANT PROJECT ID: N/A
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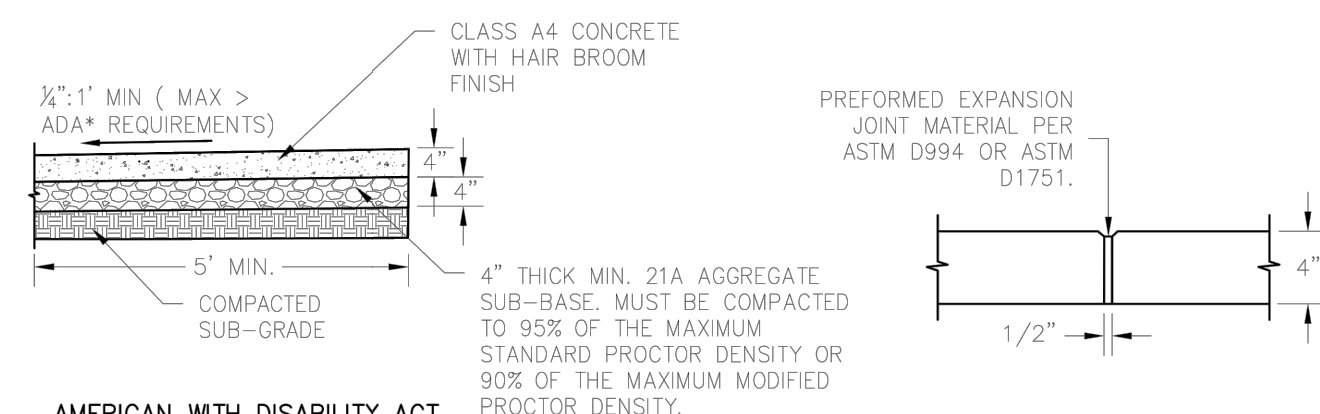
POLK AVENUE SIDEWALK

SITE PLAN
 CS101
 SHEET
 06 of 10
 SCALE 1"=10'





EXPANSION JOINT PLACEMENT



SIDEWALK SECTION

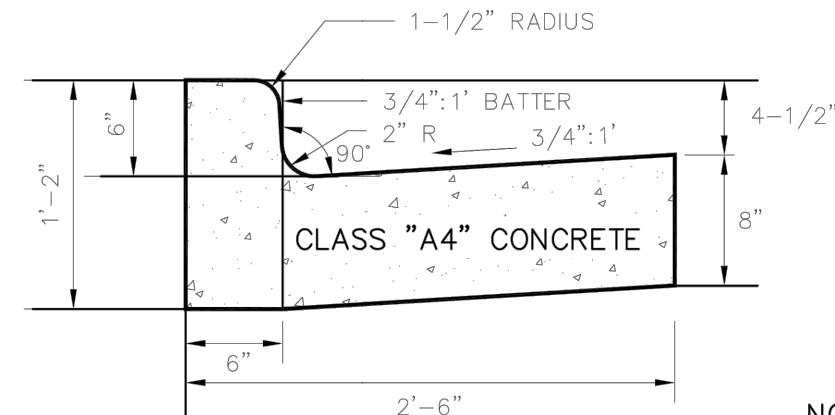
EXPANSION JOINT

- NOTES:
1. SCORING OF CONCRETE SLAB SHALL BE SAW CUT NOT MORE THAN 3/16" IN WIDTH AND NOT MORE THAN 1/4" DEEP.
 2. THE EXPANSION JOINTS SHALL BE 1/2" WIDE, FULL DEPTH, AND SHALL BE OF PRE-FORMED EXPANSION JOINT MATERIAL CONFORMING TO THE REQUIREMENTS OF ASTM D994 ASPHALT OR ASTM D1751 FIBRE. EXPANSION MATERIAL SHALL BE SECURED IN A MANNER THAT WILL PREVENT MOVEMENT OR DISPLACEMENT OF CONCRETE DURING PLACEMENT.
 3. THE EXPANSION JOINTS SHALL BE PLACED PERPENDICULAR TO CONCRETE CURB AT A DISTANCE OF 30' OR COINCIDING WITH THE SCORING.
 4. DOWELS SHALL BE PLACED AT THE END OF A SIDEWALK PLACEMENT, AT INTERRUPTIONS FOR A DRIVEWAY, OR IF SIDEWALK SLABS ARE POURED AT DIFFERENT TIMES.
 5. SAWING OF JOINTS SHALL BE CONDUCTED AS SOON AS THE CONDITION OF THE CONCRETE PERMITS AND BEFORE ANY RANDOM CRACKING APPEARS.
 6. ALL STRUCTURAL ITEMS TO CONFORM TO THE LATEST EDITION OF UNIFORM STRUCTURAL BUILDING CODE (USBC) REQUIREMENTS.
 7. PRIOR TO CONSTRUCTION, ALL STRUCTURAL CROSS SECTIONS SHALL BE REVIEWED BY A QUALIFIED STRUCTURAL AND/OR GEOTECHNICAL ENGINEER, AND MODIFIED AS NECESSARY BASED ON THE SITE SPECIFIC GEOTECHNICAL REPORT.

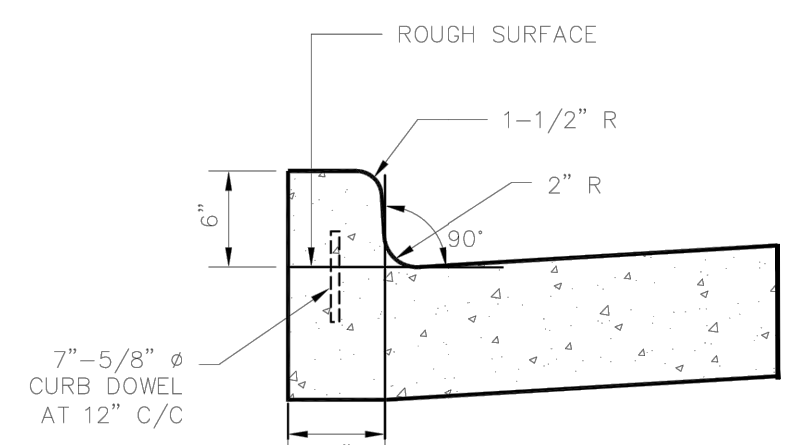
1 STANDARD CONCRETE SIDEWALK

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| 06/03/2022 | REVISION | DATE |
| CSSW-1 | | |
| PAGE | 46 | |

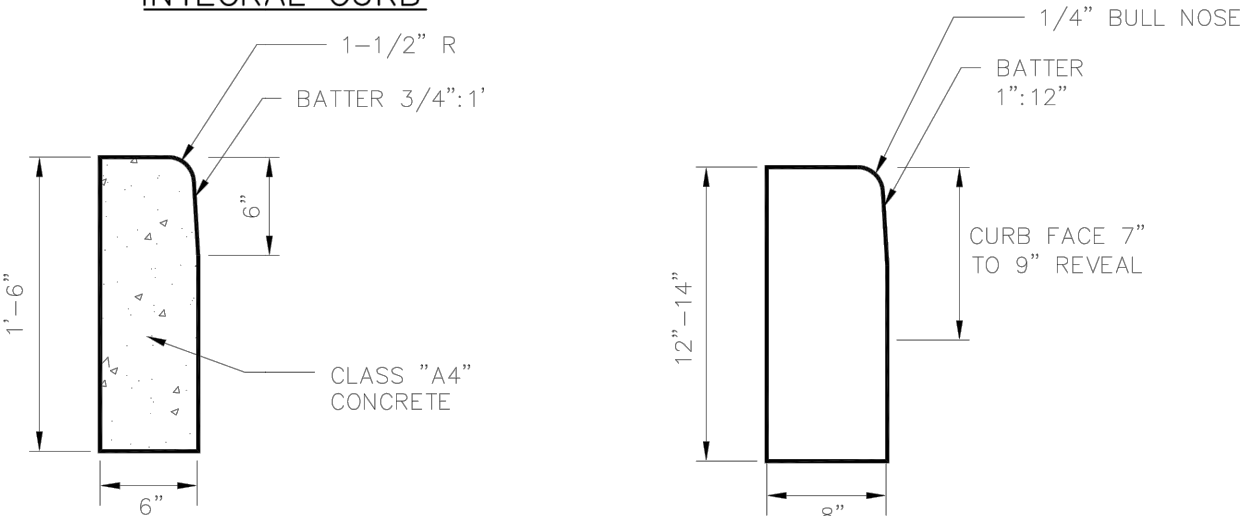
DEPARTMENT OF TRANSPORTATION & ENVIRONMENTAL SERVICES
ALEXANDRIA, VIRGINIA



COMBINATION CURB AND GUTTER



INTEGRAL CURB



COPING CURB

GRANITE CURB

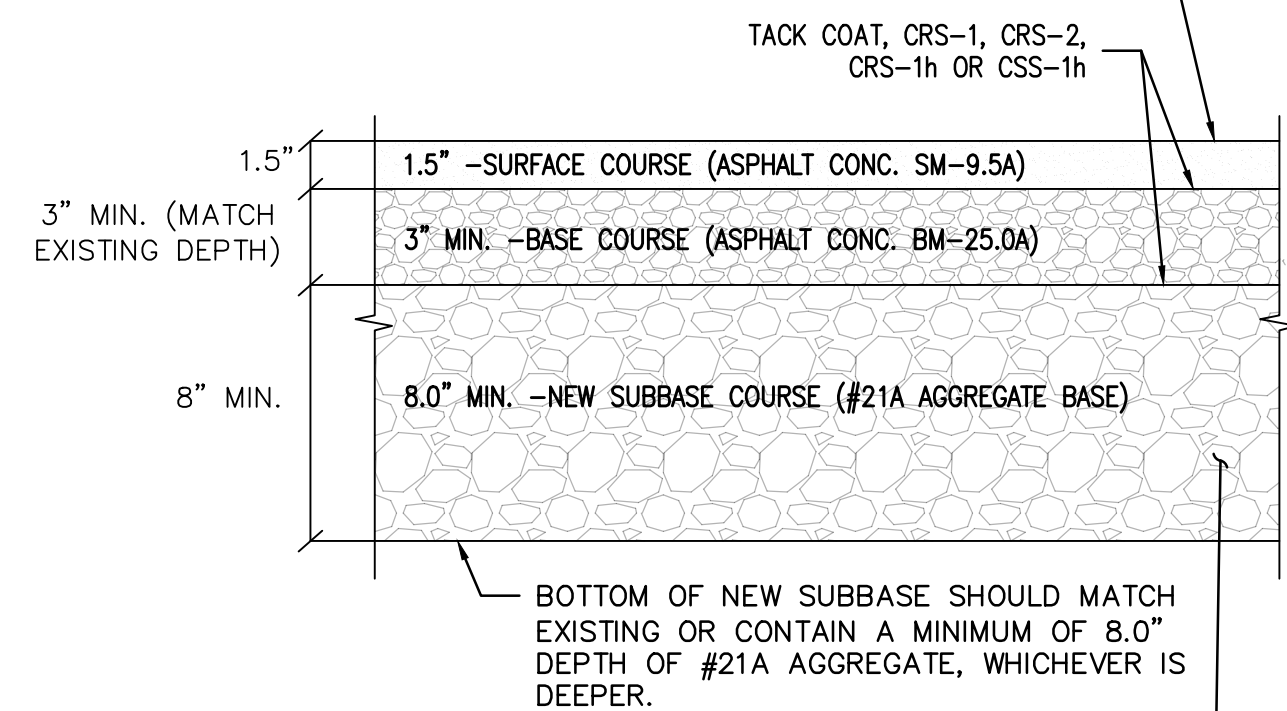
- NOTES:
1. MATERIAL, FINISH AND TOLERANCE WILL BE IN ACCORDANCE WITH SECTION 404 - HYDRAULIC CEMENT CONCRETE OPERATIONS OF THE LATEST VDOT ROAD & BRIDGE SPECIFICATIONS.
 2. ALL CURB AND GUTTER SHALL HAVE MIN. 6" THICK 21A AGGREGATE BASE AND MUST BE COMPACTED TO 95% OF THE MAXIMUM STANDARD PROCTOR DENSITY OR 90% OF THE MAXIMUM MODIFIED PROCTOR DENSITY.

2 CURB AND GUTTER, COPING CURB AND GRANITE CURB

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| 06/03/2022 | REVISION | DATE |
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| PAGE | 43 | |

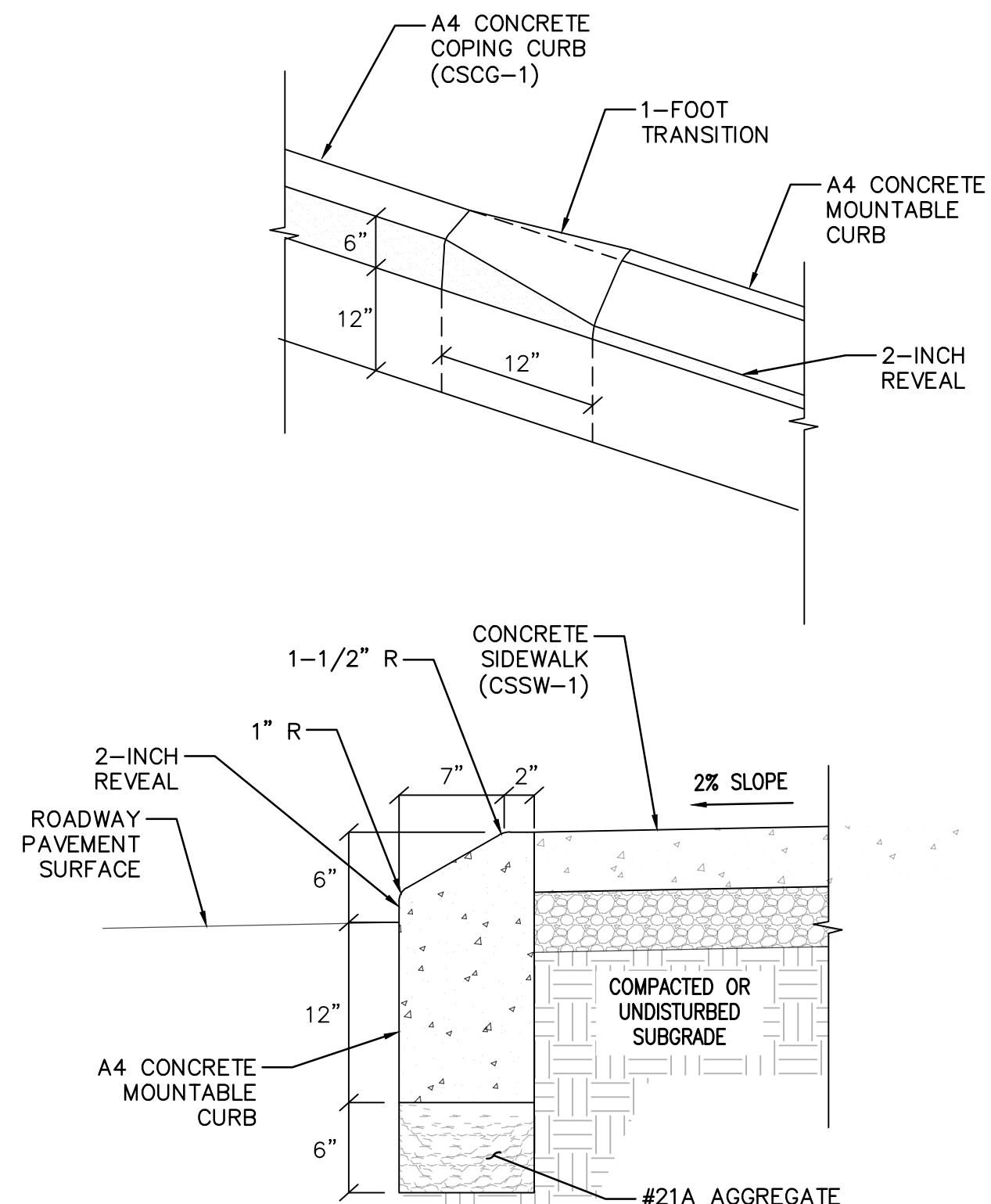
DEPARTMENT OF TRANSPORTATION & ENVIRONMENTAL SERVICES
ALEXANDRIA, VIRGINIA

ASPHALT PAVING, FINISHING AND COMPACTING MUST BE IN ACCORDANCE WITH SECTION 315.05 - ASPHALT CONCRETE PLACEMENT OF THE VDOT ROAD & BRIDGE SPECIFICATIONS, 2016.



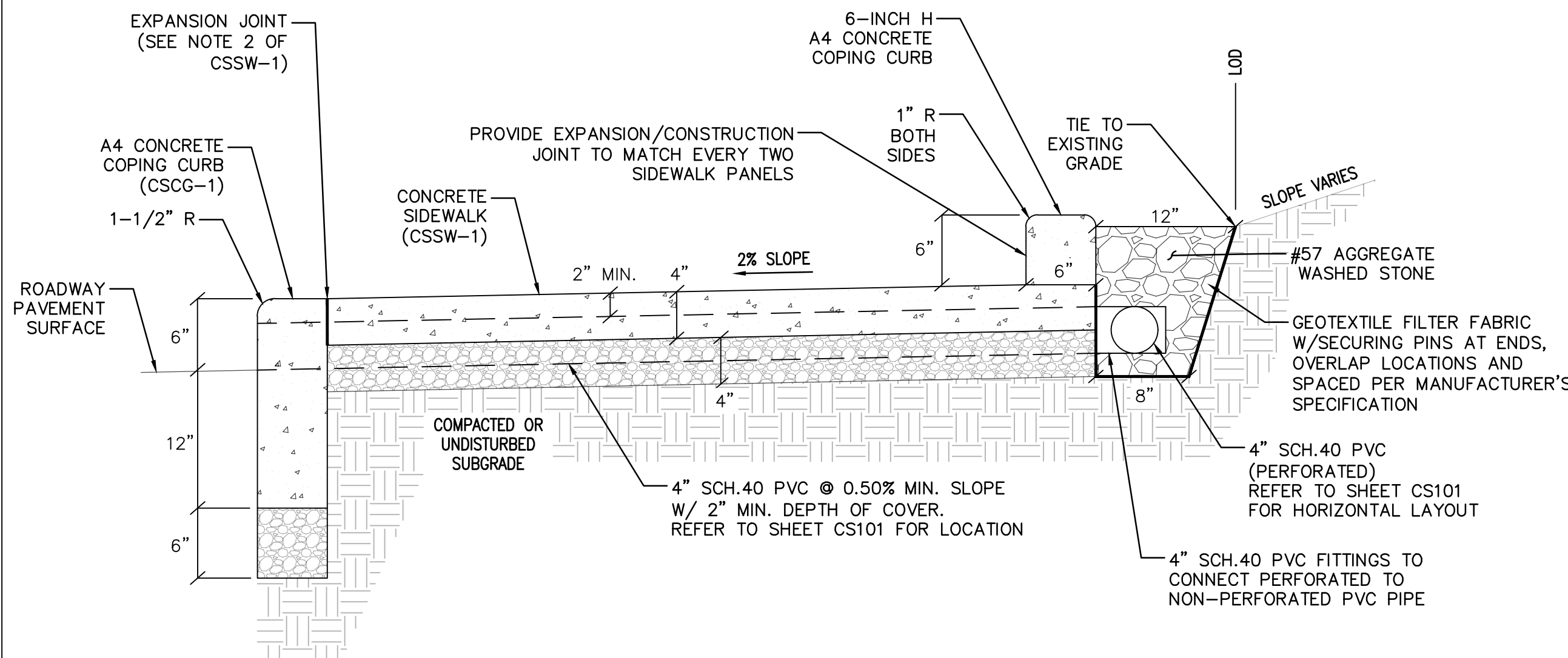
6 ASPHALT PAVING

CS101 TYPICAL SECTION STA.10+68 - STA.11+06 NTS



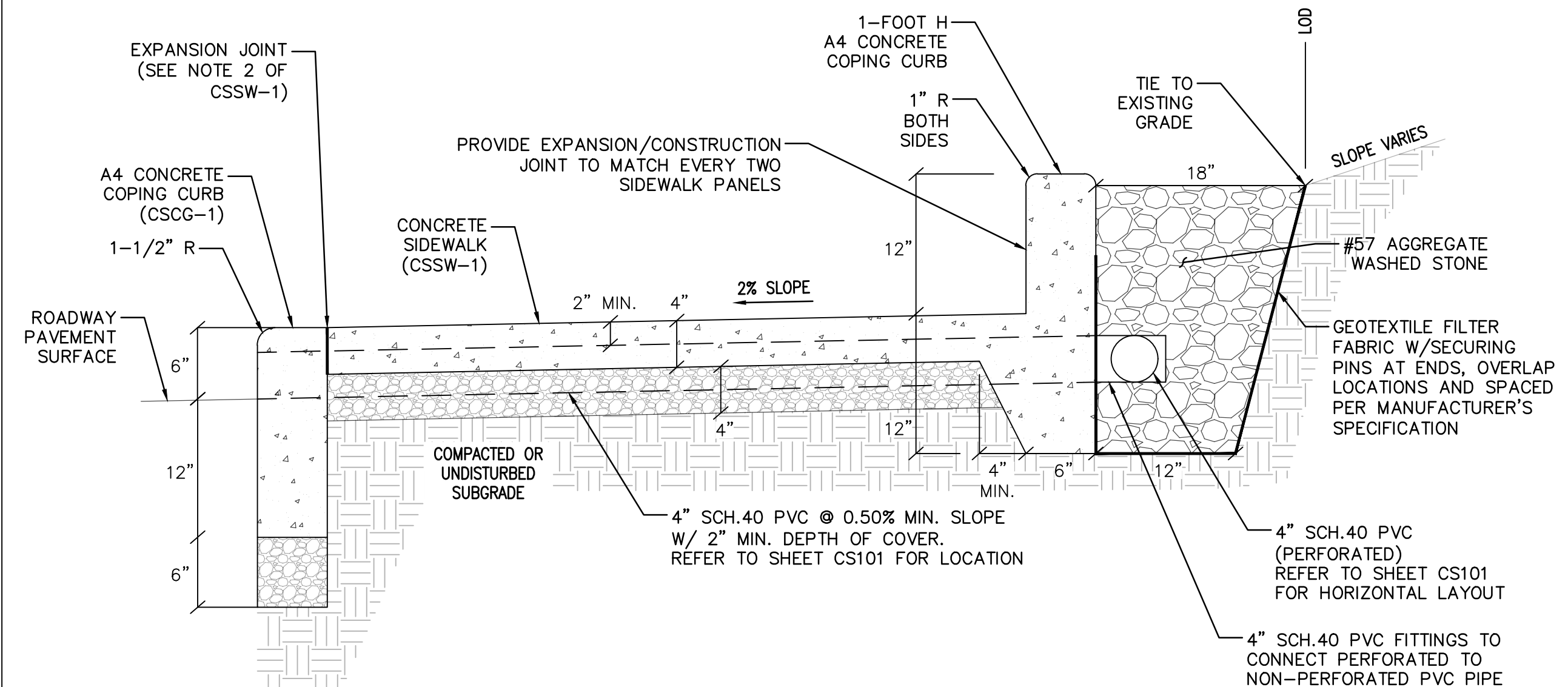
5 MOUNTABLE CURB

CS101 TYPICAL SECTION STA.11+10 - STA.11+30 NTS



3 6-INCH H COPING CURB

CS101 TYPICAL SECTION STA.10+68 - STA.11+06 NTS

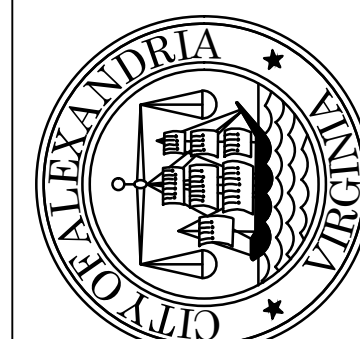


4 1-FOOT H COPING CURB

CS101 TYPICAL SECTION STA.11+32 - STA.12+74 NTS



KNOW WHAT'S BELOW.
CALL BEFORE YOU DIG.
DIAL 811 IN VIRGINIA OR
1-800-552-7001

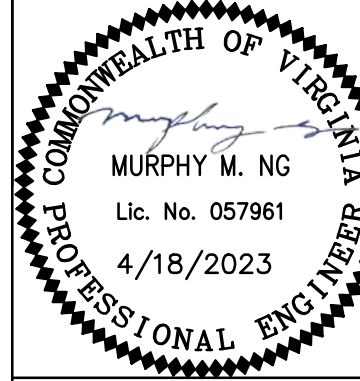


CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22313

100% DESIGN

| REVISIONS | DESCRIPTION |
|-----------|-------------|
| BY | |
| DATE | |

| | |
|-------------------------|-------------------|
| ALEXANDRIA PROJECT NO.: | 1903017 |
| DATE OF PLAN ISSUANCE: | N/A |
| CONSULTANT PROJECT ID.: | N/A |
| DESIGNED BY: | MIN DATE: 4/18/23 |
| DRAWN BY: | MIN DATE: 4/18/23 |
| CHECKED BY: | DK DATE: 4/18/23 |
| APPROVED BY: | TS DATE: 4/18/23 |



SITE DETAILS

CS501

SHEET
07 of 10

SCALE AS SHOWN

POLK AVENUE SIDEWALK

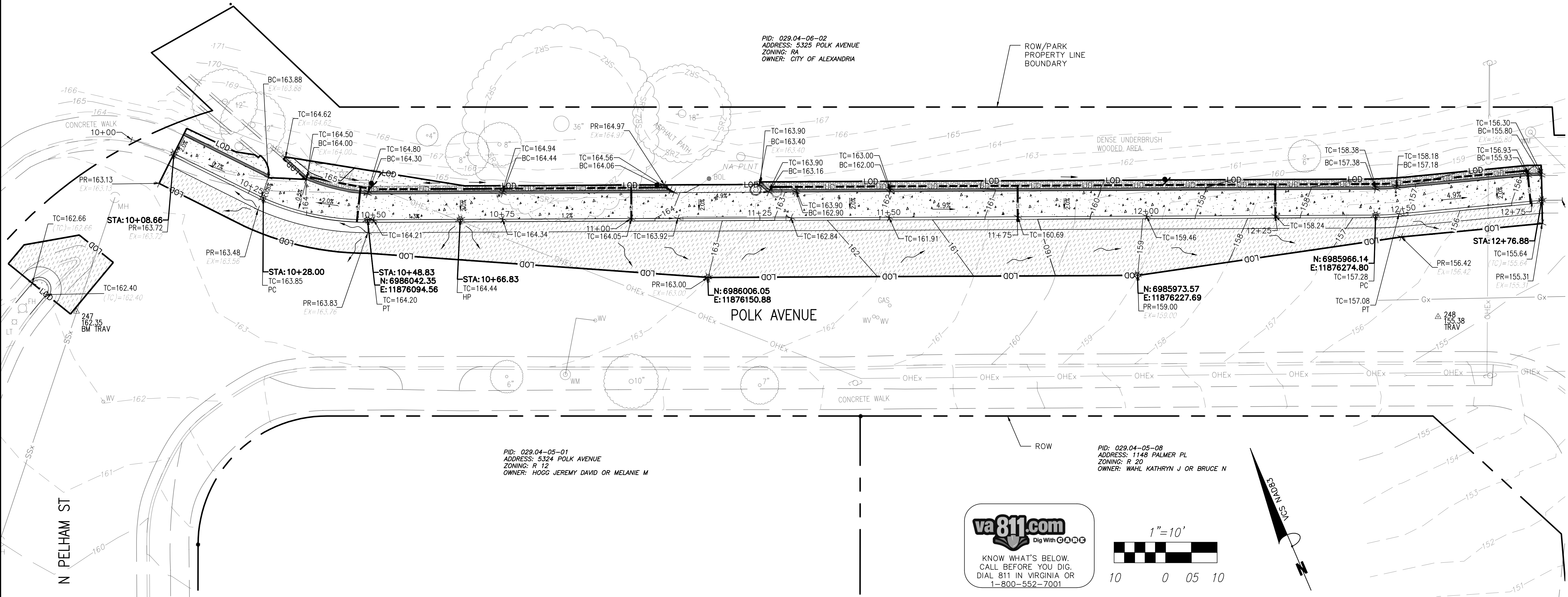
LEGEND

- PROVIDE ELEVATION (FT) PR=XX.XX
- PROVIDE ELEVATION @ LOCAL HIGH POINT (FT) HP=XX.XX
- PROVIDE TOP OF CURB ELEVATION (FT) TC=XX.XX
- PROVIDE BOTTOM OF CURB ELEVATION (FT) BC=XX.XX
- EXISTING TOP OF CURB ELEVATION (FT) (TC)=XX.XX
- EXISTING ELEVATION (FT) EX=XX.XX
- EXISTING CONTOUR -50-
- PROPOSED CONTOUR -50-
- FLOW ARROW
- LIMITS OF DISTURBANCE LOD

(SEE EXISTING CONDITIONS ON SHEET VF101)

NOTE:

1. MATCH EXISTING GRADE AT LIMITS OF DISTURBANCE.
2. THE CONTRACTOR SHALL CALL ALEXANDRIA ARCHAEOLOGY IMMEDIATELY (703-746-4399) IF ANY BURIED STRUCTURAL REMAINS (WALL FOUNDATIONS, WELLS, PRIVIES, CISTERNS, ETC.) OR CONCENTRATIONS OF ARTIFACTS ARE DISCOVERED DURING DEVELOPMENT. WORK MUST CEASE IN THE AREA OF THE DISCOVERY UNTIL A CITY ARCHAEOLOGIST COMES TO THE SITE AND RECORDS THE FINDS.
3. THE CONTRACTOR SHALL NOT ALLOW ANY METAL DETECTION TO BE CONDUCTED ON THE PROPERTY, UNLESS AUTHORIZED BY ALEXANDRIA ARCHAEOLOGY.



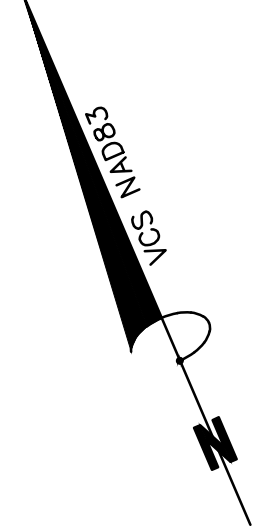
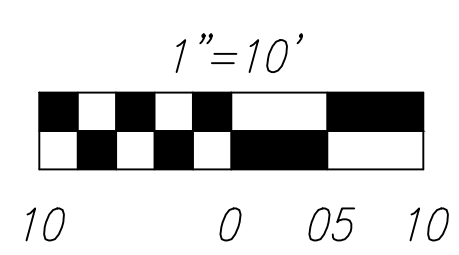
PID: 029.04-06-02
 ADDRESS: 5325 POLK AVENUE
 ZONING: RA
 OWNER: CITY OF ALEXANDRIA

PID: 029.04-05-01
 ADDRESS: 5324 POLK AVENUE
 ZONING: R 12
 OWNER: HOGG JEREMY DAVID OR MELANIE M

PID: 029.04-05-08
 ADDRESS: 1148 PALMER PL
 ZONING: R 20
 OWNER: WAHL KATHRYN J OR BRUCE N

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 Dig With **GOOOD**

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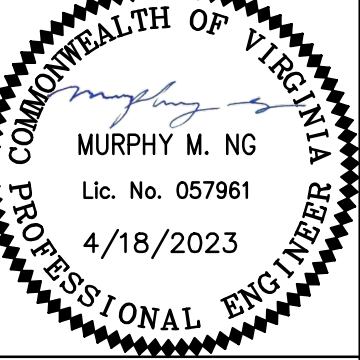
100% DESIGN



CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

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POLK AVENUE SIDEWALK

GRADING PLAN

CG101
 SHEET
 08 of 10
 SCALE 1"=10'

| 2011 BMP Standards and Specifications | | 2013 Draft BMP Standards and Specifications | |
|---|----------------------|--|---------------------------------------|
| Project Name: | Polk Avenue Sidewalk | CLEAR ALL | |
| Date: | 12/18/2022 | | |
| Linear Development Project? | No | | |
| Site Information | | | |
| Post-Development Project (Treatment Volume and Loads) | | | |
| Enter Total Disturbed Area (acres) → | | 0.10 | Check: 2013 Draft Stds & Specs |
| Maximum reduction required: | | 10% | Linear project? No |
| The site's net increase in impervious cover (acres) is: | | 0.018296602 | Land cover areas entered correctly? ✓ |
| Post-Development TP Load Reduction for Site (lb/yr): | | 0.05 | Total disturbed area entered? ✓ |
| Pre-Development Land Cover (acres) | | | |
| | A Soils | B Soils | C Soils |
| Forest/Open Space (acres) – undisturbed, protected forest/open space or reforested land | | | 0.00 |
| Managed Turf (acres) – disturbed, graded for yards or other turf to be mowed/managed | | | 0.02 |
| Impervious Cover (acres) | | | 0.08 |
| Post-Development Land Cover (acres) | | | |
| | A Soils | B Soils | C Soils |
| Forest/Open Space (acres) – undisturbed, protected forest/open space or reforested land | | | 0.00 |
| Managed Turf (acres) – disturbed, graded for yards or other turf to be mowed/managed | | | 0.00 |
| Impervious Cover (acres) | | | 0.10 |
| Constants | | | |
| Annual Rainfall (inches) | 43 | Runoff Coefficients (Rv) | |
| Target Rainfall Event (inches) | 1.00 | A Soils | B Soils |
| Total Phosphorus (TP) EMC (mg/L) | 0.26 | 0.02 | 0.03 |
| Total Nitrogen (TN) EMC (mg/L) | 1.86 | 0.15 | 0.20 |
| Target TP Load (lb/acre/yr) | 0.41 | 0.20 | 0.22 |
| Pj (unitless correction factor) | 0.90 | 0.95 | 0.95 |
| LAND COVER SUMMARY -- PRE-REDEVELOPMENT | | | |
| Land Cover Summary-Pre | | Land Cover Summary-Post (Final) | |
| Pre-Development | Listed | Post ReDev. & New Impervious | Post-Development New Impervious |
| Forest/Open Space Cover (acres) | 0.00 | Forest/Open Space Cover (acres) | 0.00 |
| Weighted Rv(forest) | 0.00 | Weighted Rv(forest) | 0.00 |
| % Forest | 0% | % Forest | 0% |
| Managed Turf Cover (acres) | 0.02 | Managed Turf Cover (acres) | 0.00 |
| Weighted Rv(turf) | 0.25 | Weighted Rv (turf) | 0.25 |
| % Managed Turf | 20% | % Managed Turf | 3% |
| Impervious Cover (acres) | 0.08 | Impervious Cover (acres) | 0.10 |
| Rv(impervious) | 0.95 | Rv(impervious) | 0.95 |
| % Impervious | 80% | % Impervious | 97% |
| Total Site Area (acres) | 0.10 | Final Site Area (acres) | 0.10 |
| Site Rv | 0.81 | Final Post Dev Site Rv | 0.93 |
| Treatment Volume and Nutrient Load | | | |
| Pre-Development Treatment Volume (acre-ft) | 0.0070 | Final Post-Development Treatment Volume (acre-ft) | 0.0080 |
| Pre-Development Treatment Volume (cubic feet) | 304 | Final Post-Development Treatment Volume (cubic feet) | 350 |
| Pre-Development TP Load (lb/yr) | 0.19 | Final Post-Development TP Load (lb/yr) | 0.22 |
| Pre-Development TP Load per acre (lb/acre/yr) | 1.84 | Final Post-Development TP Load per acre (lb/acre/yr) | 2.12 |
| Baseline TP Load (lb/yr) (0.41 lbs/acre/yr applied to pre-redevelopment area excluding pervious land proposed for new impervious cover) | | | 0.03 |
| Post-Development Requirement for Site Area | | | |
| TP Load Reduction Required (lb/yr) | | 0.05 | |
| Nitrogen Loads (Informational Purposes Only) | | | |
| Pre-Development TN Load (lb/yr) | 1.37 | Final Post-Development TN Load (Post-ReDevelopment & New Impervious) (lb/yr) | 1.57 |

SITE DRAINAGE ANALYSIS COMPUTATIONS

| | 2-year storm | 10-year storm | |
|---|--------------|---------------|--|
| DA (To Runoff Reduction Practice - Stone Reservoir) | 0.525 | 0.525 | ac |
| CN (To Practice, Before Runoff Reduction) | 80 | 80 | |
| P (in) | 3.09 | 4.76 | |
| Q (Before Runoff Reduction) | 1.3179 | 2.6846 | in. |
| S (Before Runoff Reduction) | 2.5 | 2.5 | |
| R (Volume Stored in Runoff Reduction Practice) 0.4 x 226 SF x 2 FT = 181 CF | 181 | 181 | CF |
| R (in) | 0.0950 | 0.0950 | |
| S _{adj} | 2.738775888 | 2.668711393 | |
| CN _{adj} | 78.50 | 78.93 | |
| CN (Runoff From Other Areas Pre-Development) | 90.19 | | |
| CN (Runoff From Other Areas Post-Development) | 90.80 | | |
| CN _{composite} (Pre-Development) | 84.32 | 84.32 | |
| CN _{composite} (Post-Development) | 83.72 | 83.97 | |
| Drainage to the east Curb Inlet on Palmer Pl. | | | |
| Q to Inlet (Pre-Development) (CFS) | 2.21 | 4.19 | Hydraflow TR-55 Calculations |
| Q to Inlet (Post-Development) (CFS) | 2.21 | 4.19 | Hydraflow TR-55 Calculations |
| Drainage to the west curb and gutter | | | |
| Q to Inlet (Pre-Development) (CFS) | 0.23 | 0.32 | Q=CIA (I _{2yr} = 6.25 in/hr, I _{10yr} = 9 in/hr, C=0.45) |
| Q to Inlet (Post-Development) (CFS) | 0.23 | 0.32 | Q=CIA (I _{2yr} = 6.25 in/hr, I _{10yr} = 9 in/hr, C=0.45) |

SITE INFORMATION

| IMPERVIOUS AREA | | |
|-----------------|----------|-----------|
| LOD (SF) | PRE (SF) | POST (SF) |
| 4514 | 3594 | 4391 |

Per VDOT Drainage Manual Section 11.5.2.1.8

Solve: $CN_{adj} = \frac{1000}{S_{adj} + 10}$

Where: $Q - R = \frac{(P - 0.2 \times S_{adj})^2}{(P + 0.8 \times S_{adj})}$

SITE DRAINAGE ANALYSIS

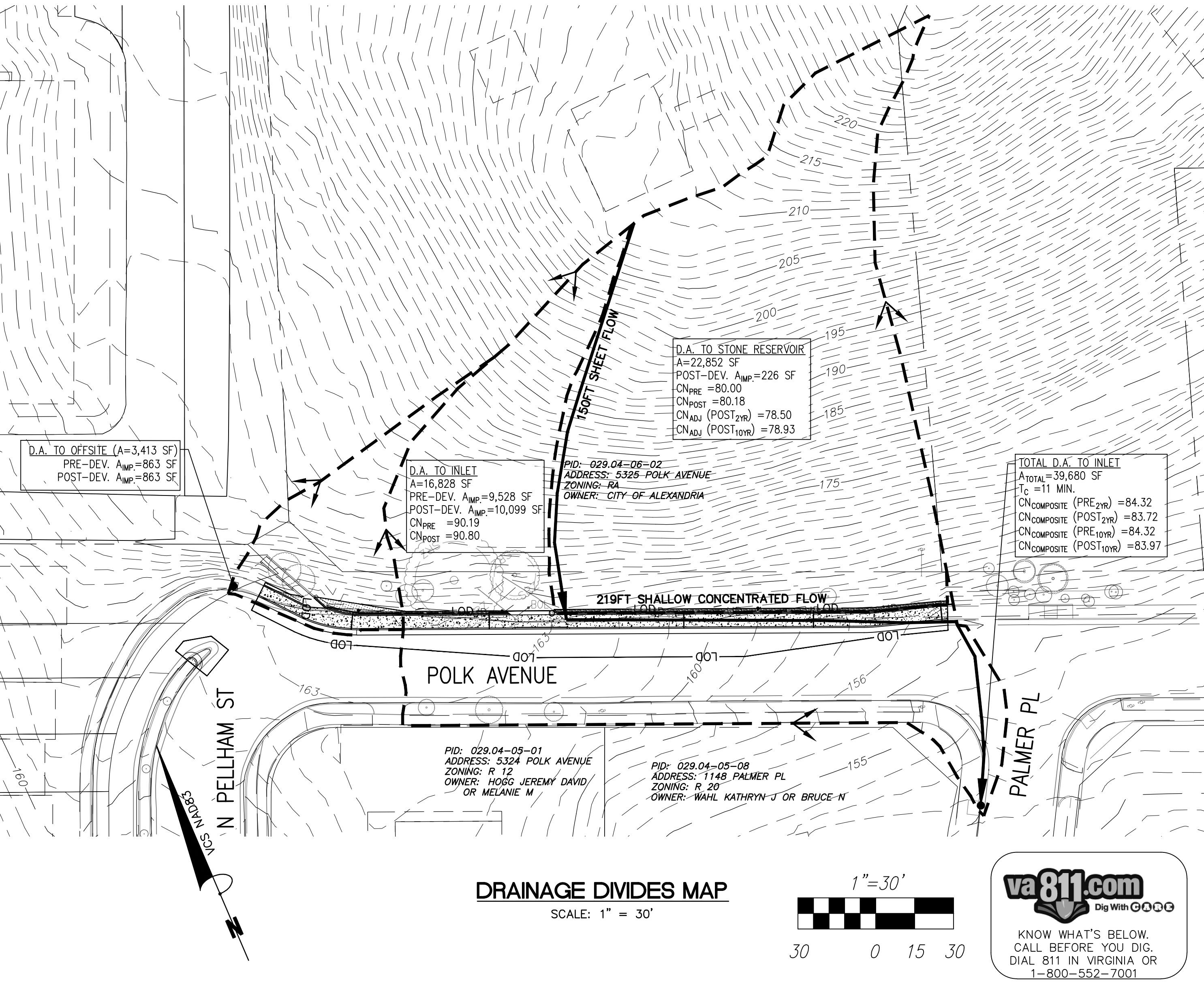
THE EXISTING DRAINAGE DIVIDES WILL BE MAINTAINED IN THE PROPOSED CONDITIONS. RUNOFF FROM THE SITE PRIMARILY FLOWS FROM THE NORTHERN WOODED PARK AREA ONTO POLK AVENUE, WITH A SMALL PORTION TRAVELING WEST AND THE MAJORITY TRAVELING EAST ON POLK AVENUE. RUNOFF FROM THE WEST TRAVELS ONTO THE EXISTING CURB AND GUTTER WHICH LEADS TO A CURB INLET ON N PELLHAM ST APPROXIMATELY 600 FT SOUTH OF THE PROJECT SITE. THE PROPOSED IMPROVEMENTS WILL NOT INCREASE RUNOFF TO THIS AREA SINCE THE AMOUNT OF IMPERVIOUS SURFACE WILL REMAIN THE SAME IN THE POST-DEVELOPMENT CONDITION. RUNOFF FROM THE EAST SHEET FLOWS ACROSS POLK AVENUE AND INTO A CURB INLET ON PALMER PL. THE PROPOSED IMPROVEMENTS FOR THE EAST DRAINAGE AREA INCLUDES THE CONSTRUCTION OF APPROXIMATELY 190 LF OF UNDERDRAIN WITH #57 STONE AGGREGATE TO ALLOW PORTIONS OF THE RUNOFF TO BE STORED AND DISCHARGED AT A SLOWER RATE BACK ONTO POLK AVENUE. THE #57 STONE AGGREGATE FACILITY (STONE RESERVOIR) IS SIZED TO PROVIDE ENOUGH STORAGE SUCH THAT THE POST-DEVELOPMENT COMPOSITE ON NUMBER IS LESS THAN THE PRE-DEVELOPMENT COMPOSITE ON NUMBER. THEREFORE, THE POST-DEVELOPMENT PEAK RUNOFF RATE COMPARED TO THE PRE-DEVELOPMENT PEAK RUNOFF RATE FOR A TWO-YEAR AND TEN-YEAR STORM WILL RESULT IN NO NET INCREASE. IT IS THE OPINION OF THE ENGINEER THAT THIS PROJECT WILL NOT HAVE AN ADVERSE EFFECT NOR CAUSE FLOODING OF ANY DOWNSTREAM PROPERTY OR STRUCTURES.

STORMWATER MANAGEMENT NARRATIVE

THE PROJECT SITE IS WITHIN THE HOLMES RUN WATERSHED (HUC 02070010 PL25).

THE PROPOSED PROJECT LIMITS OF DISTURBANCE IS 4,514 SF (0.10 AC). THE IMPERVIOUS AREA WILL BE INCREASED BY 797 SF COMPARED TO PRE-DEVELOPMENT CONDITIONS. SITE CONSTRAINTS PROHIBITS THE INSTALLATION OF BMP(S). THE PROJECT REQUIRES THE WITHDRAWAL OF NUTRIENT CREDITS FROM THE CITY'S SWM INTERNAL PHOSPHOROUS BANK TO OFFSET THE WATER QUALITY IMPACT OF DEVELOPMENT. USING THE VIRGINIA RUNOFF REDUCTION METHOD, THE AMOUNT OF PHOSPHOROUS REMOVAL REQUIRED IS DETERMINED TO BE 0.05 LB/YR. WITHDRAWAL OF NUTRIENT CREDITS WILL BE PURCHASED WITH PROJECT FUNDS AT A RATE OF \$50,000/LB FOR \$2,500.

SINCE THE POST-DEVELOPMENT PEAK RUNOFF RATE COMPARED TO THE PRE-DEVELOPMENT PEAK RUNOFF RATE FOR A TWO-YEAR AND TEN-YEAR STORM WILL RESULT IN NO NET INCREASE IN RUNOFF INTO A DOWNSTREAM MANMADE CHANNEL, THIS PROJECT IS IN COMPLIANCE WITH WATER QUANTITY REQUIREMENTS FOR CHANNEL PROTECTION AND FLOOD PROTECTION.



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POLK AVENUE SIDEWALK

STORMWATER MANAGEMENT PLAN

CG701
SHEET
09 of 10
SCALE 1"=30'

REVISIONS
DATE
DESCRIPTION

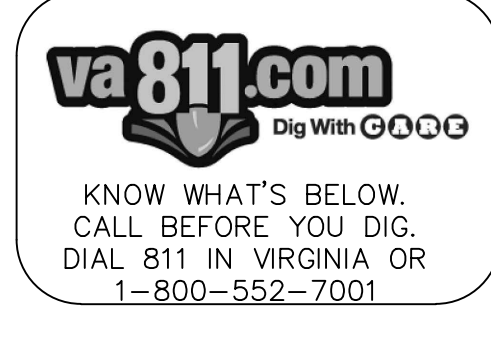
ALEXANDRIA PROJECT NO.: 1903017
DATE OF PLAN ISSUANCE: N/A
CONSULTANT PROJECT ID: N/A
DESIGNED BY: MN DATE: 4/18/23
DRAWN BY: MN DATE: 4/18/23
CHECKED BY: DK DATE: 4/18/23
APPROVED BY: TS DATE: 4/18/23


COMMONWEALTH OF VIRGINIA
MURPHY M. NG
Lic. No. 057961
4/18/2023
PROFESSIONAL ENGINEER

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C:\Users\murphyng\OneDrive - City of Alexandria\1903017 - Polk Avenue Sidewalk\200_Design\203_Technical\CAD_Sheets\09_STORMWATER MANAGEMENT PLAN.dwg PLOTTED: 5/8/2023 4:12:41 PM BY MURPHY NG

c:\Users\murphyng\OneDrive - City of Alexandria\200_Design\203_Technical\CAD_Sheets\09_STORMWATER_MANAGEMENT_PLAN.dwg PLOTTED: 4/18/2023 8:45:47 AM BY MURPHY NG




 DEPARTMENT OF TRANSPORTATION AND ENVIRONMENTAL SERVICES
 Infrastructure and Environmental Quality
 2900B Business Center Dr.
 Alexandria, Virginia 22314
www.alexandriava.gov

DATE 03/16/2023

Gavin Pellitteri
 T&ES Stormwater Management
 2900 Business Center Dr
 Alexandria VA, 22314


RE: CIP2022-00015 - Polk Avenue Sidewalk

Dear Mr. Pellitteri:


Department of Project Implementation is requesting to meet the Virginia Stormwater Phosphorus Removal Requirements specified in the Environmental Management Ordinance (Article XIII of the City's zoning ordinance) through use of the City's Internal Phosphorus Exchange Bank. The installation of a structural BMP was not feasible on this project due to site constraints.

I am requesting to purchase 0.05 lbs. of Phosphorus Credits in the amount of \$2,500. The purchased credits will be used to meet the Phosphorus Removal Requirements for the Polk Avenue Sidewalk project. 51411829 account will be used to purchase the credits. This letter confirms that funds are available in the budget as written.

Sincerely,



Murphy Ng, P.E.
 Associate Project Manager
 City of Alexandria, Virginia
 Department of Project Implementation


 DEPARTMENT OF TRANSPORTATION AND ENVIRONMENTAL SERVICES
 Infrastructure and Environmental Quality
 2900B Business Center Drive
 Alexandria, Virginia 22314
www.alexandriava.gov

03/21/2023

Murphy Ng, PE
 Associate Project Manager
 City of Alexandria, Virginia
 Department of Project Implementation
 703.746.4699 (Direct)


RE: CIP2022-00015 - 5325 Polk Avenue Alexandria VA 22304

Dear Mr. Ng:

This is in regard to your letter dated 03/16/2023 requesting to meet the State Water Quality Phosphorus Removal requirements by utilizing the City's Internal Phosphorus Exchange Bank. You have requested to withdraw .05 pounds of credits from the bank and deposit \$2500 into the bank. This represents 100 percent of the overall phosphorus removal requirements.

Your request has been approved. The procedure now is to scan your request letter onto your final plan on a sheet that is labeled Stormwater Facility BMP Details or something similar. Your final plan will be eligible for approval when you have paid the fee \$2500. The approval of the plan (with your request therein) will act as the approval of your request.

Sincerely,



Gavin Pellitteri
 Water Quality Compliance Specialist
 T&ES Stormwater Management

POLK AVENUE SIDEWALK

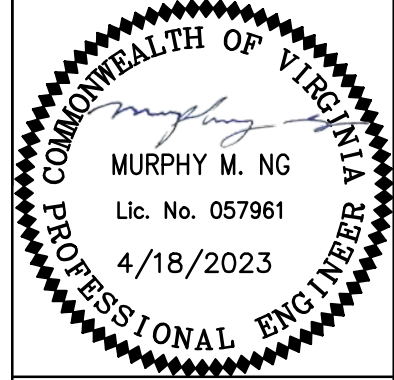
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STORMWATER MANAGEMENT COMPLIANCE

CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22313

| DATE | BY | REVISIONS DESCRIPTION |
|------|----|-----------------------|
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|---------------------------------|----------------------------|----------------------------|-------------------------------|----------------------------|------------------------------|-------------------------------|



MURPHY M. NG
 Lic. No. 057961
 4/18/2023
 PROFESSIONAL ENGINEER

CG702

SHEET
10 of 10

SCALE NA