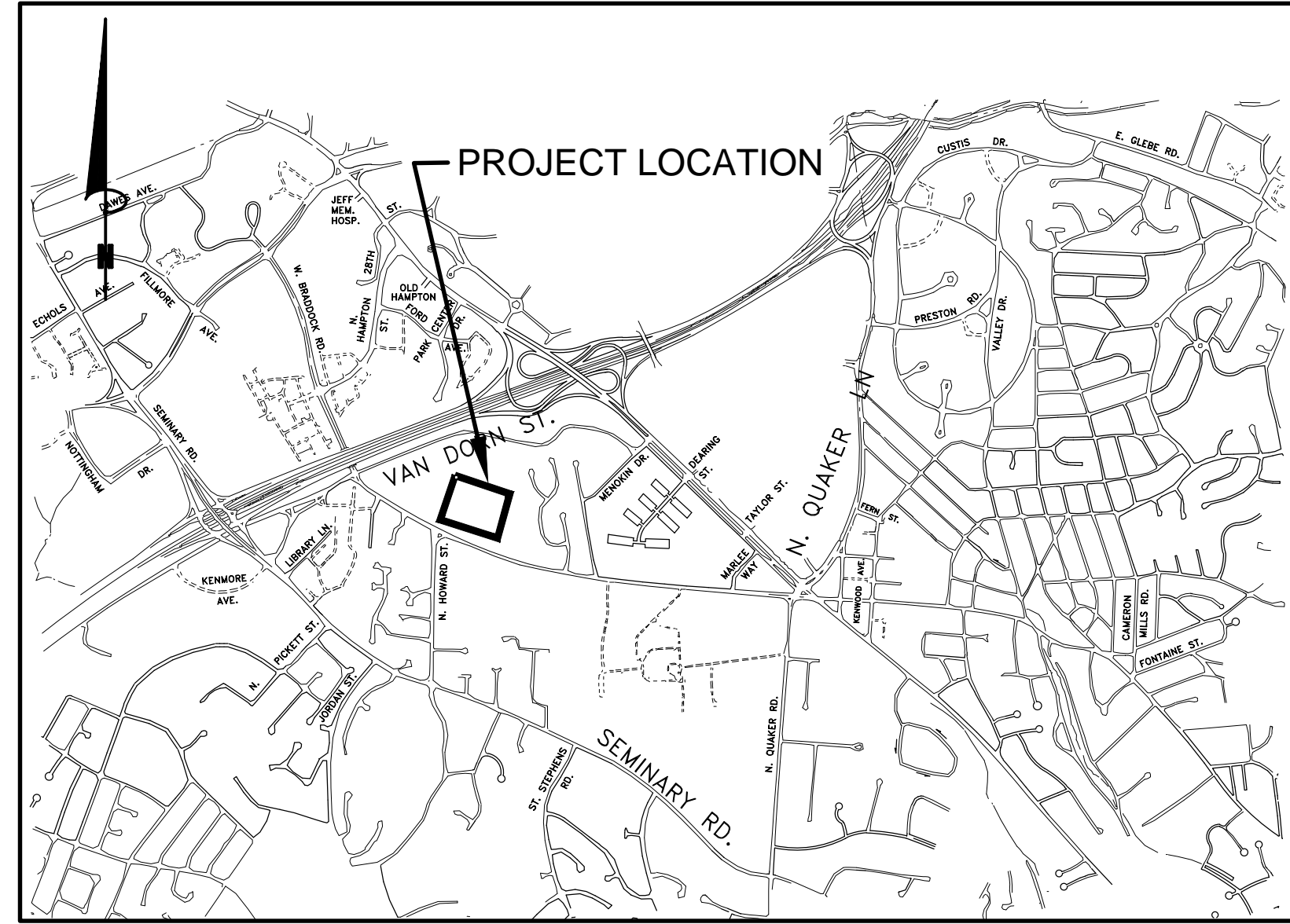
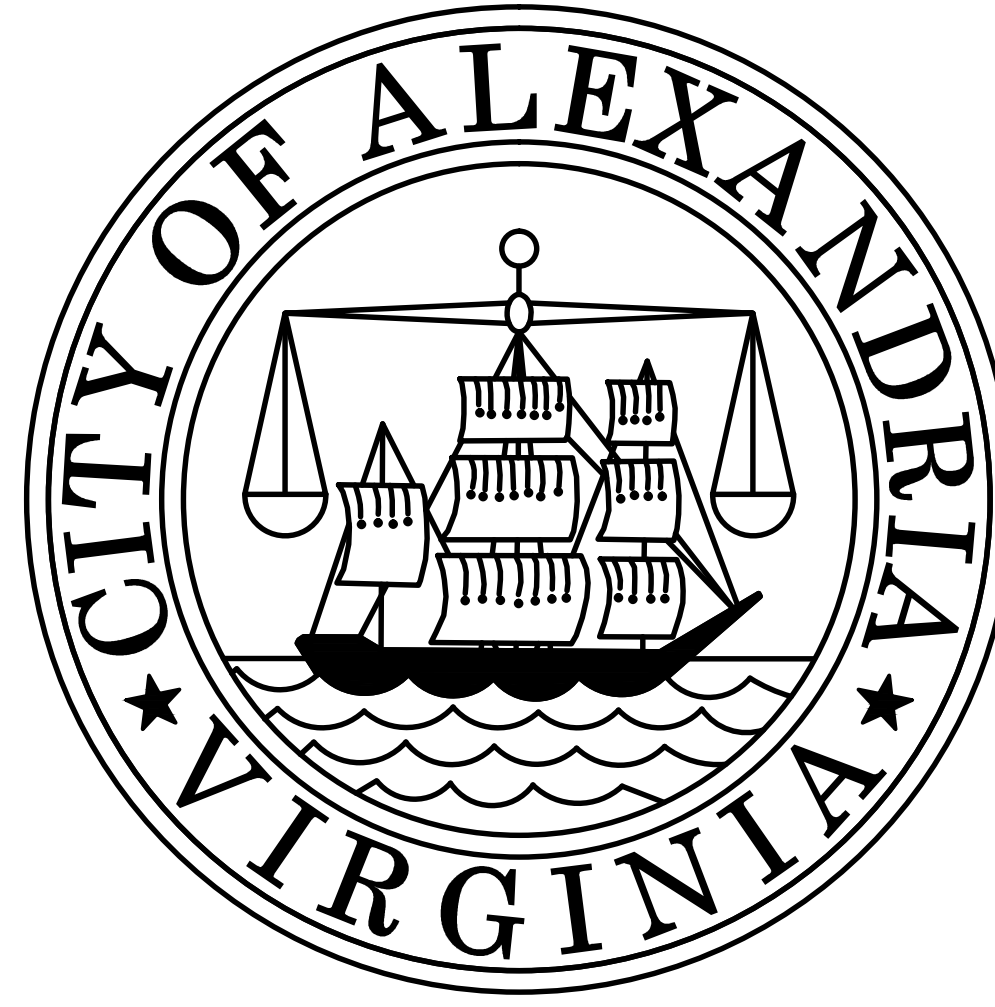


City of Alexandria, Virginia



CITY OF ALEXANDRIA
N.T.S.



ARCHAEOLOGY

FORT WARD PARK/BASTION WALKWAY PROJECT

Sheet Index

- 1 - COVER SHEET
- 2 - EXISTING CONDITIONS
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- 4 - STORM QUALITY EXEMPTION
- 5 - E&S CONTROL PLAN & NOTES
- 6 - NOTES & DETAILS

APPROVED DATE _____

DIRECTOR OF TRANSPORTATION
AND ENVIRONMENTAL SERVICES

DATE _____

OHA DIRECTOR

FORT WARD PARK/BASTION WALKWAY PROJECT

CITY OF ALEXANDRIA, VIRGINIA
Transportation & Environmental Services
P. O. Box 178
Alexandria, Virginia 22313



COVER SHEET

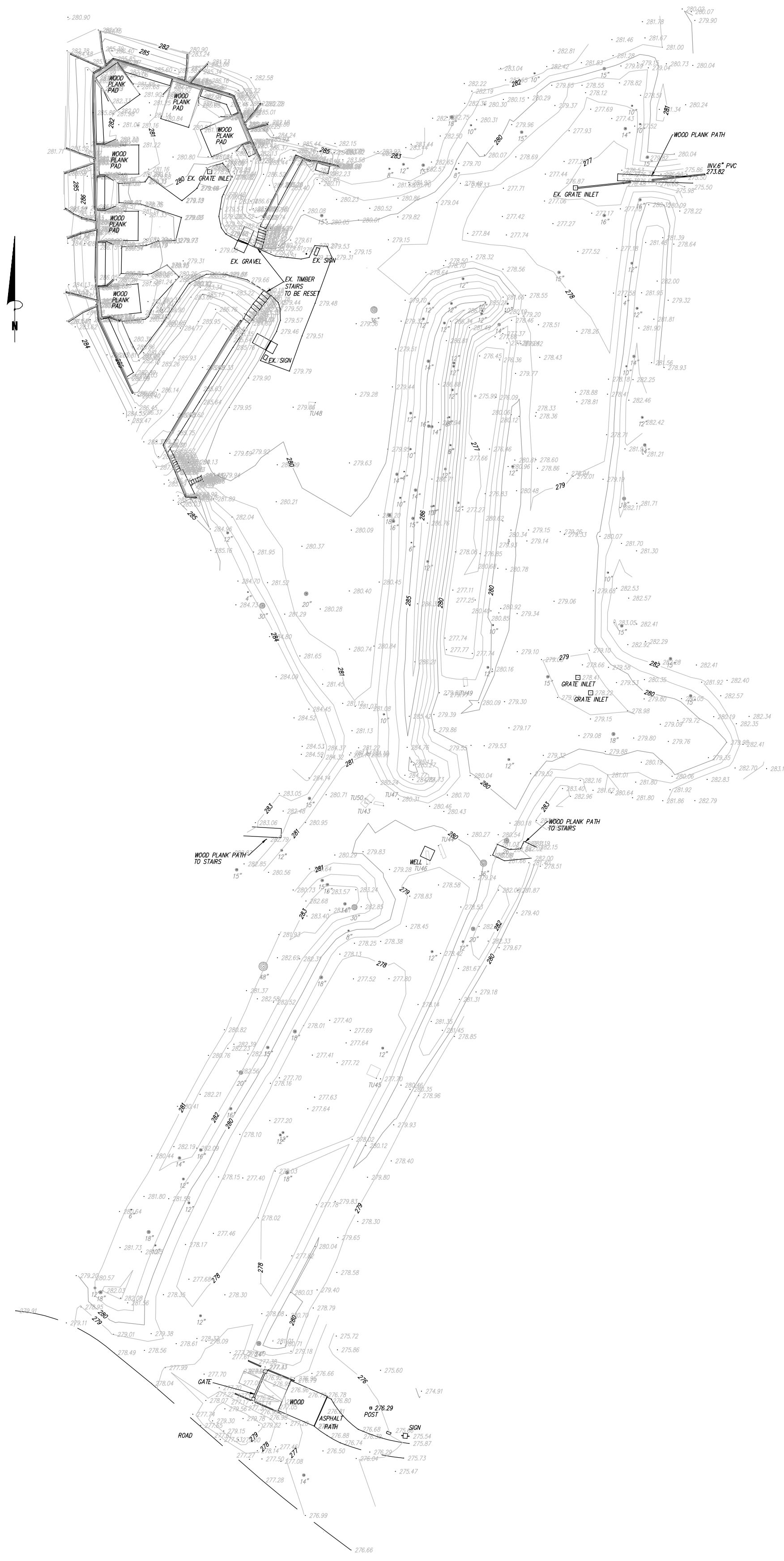
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CITY ENGINEER: _____	Date: _____		
DIRECTOR T&ES: _____	Date: _____		
Scale: NTS		Project No. 12-114	Sheet 1 of 6

SYMBOLS

- 150 ——— EXISTING INDEX CONTOUR
- ==== EXISTING SANITARY SEWER
- ==== EXISTING STORM SEWER
- ==== EXISTING WATER
- ==== EXISTING GAS
- ==== EXISTING FENCE
- OE— —OE— EXISTING OVERHEAD ELECTRIC
- UE— —UE— EXISTING UNDERGROUND ELECTRIC
- WM ○ EXISTING WATER METER
- ⊗ EXISTING WATER VALVE
- ⊗ EXISTING GAS VALVE
- EXISTING MANHOLE
- ⊙ EXISTING LIGHT POLE
- △ 56.89 SURVEY TRAVERSE CONTROL POINT
- MC11
- IE INVERT ELEVATION
- IP INLET PROTECTION
- ⊙ 18" EXISTING TREE

ABBREVIATIONS

- CONC CONCRETE
- EX EXISTING
- G GAS
- GV GAS VALVE
- IE INVERT ELEVATION
- IP INLET PROTECTION
- LF LINEAR FOOT
- MH MANHOLE
- OE OVERHEAD ELECTRIC
- SAN SANITARY SEWER
- STM STORM SEWER
- UE UNDERGROUND ELECTRIC
- W WATER
- WM WATER METER
- WV WATER VALVE
- CL CENTER LINE
- TC TOP OF CURB



APPROVED DATE _____

 DIRECTOR OF TRANSPORTATION
 AND ENVIRONMENTAL SERVICES

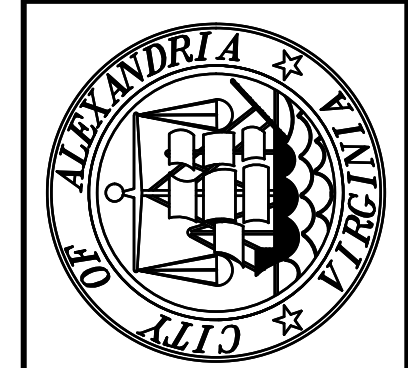
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 DIRECTOR, OFFICE OF
 HISTORIC ALEXANDRIA

FORT WARD PARK/BASTION WALKWAY PROJECT

**EXISTING
 CONDITIONS**

CITY OF ALEXANDRIA, VIRGINIA
 Transportation & Environmental Services
 P. O. Box 178
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Scale: 1" = 40' Project No. 12-114 Sheet 2 of 6

PROJECT NARRATIVE

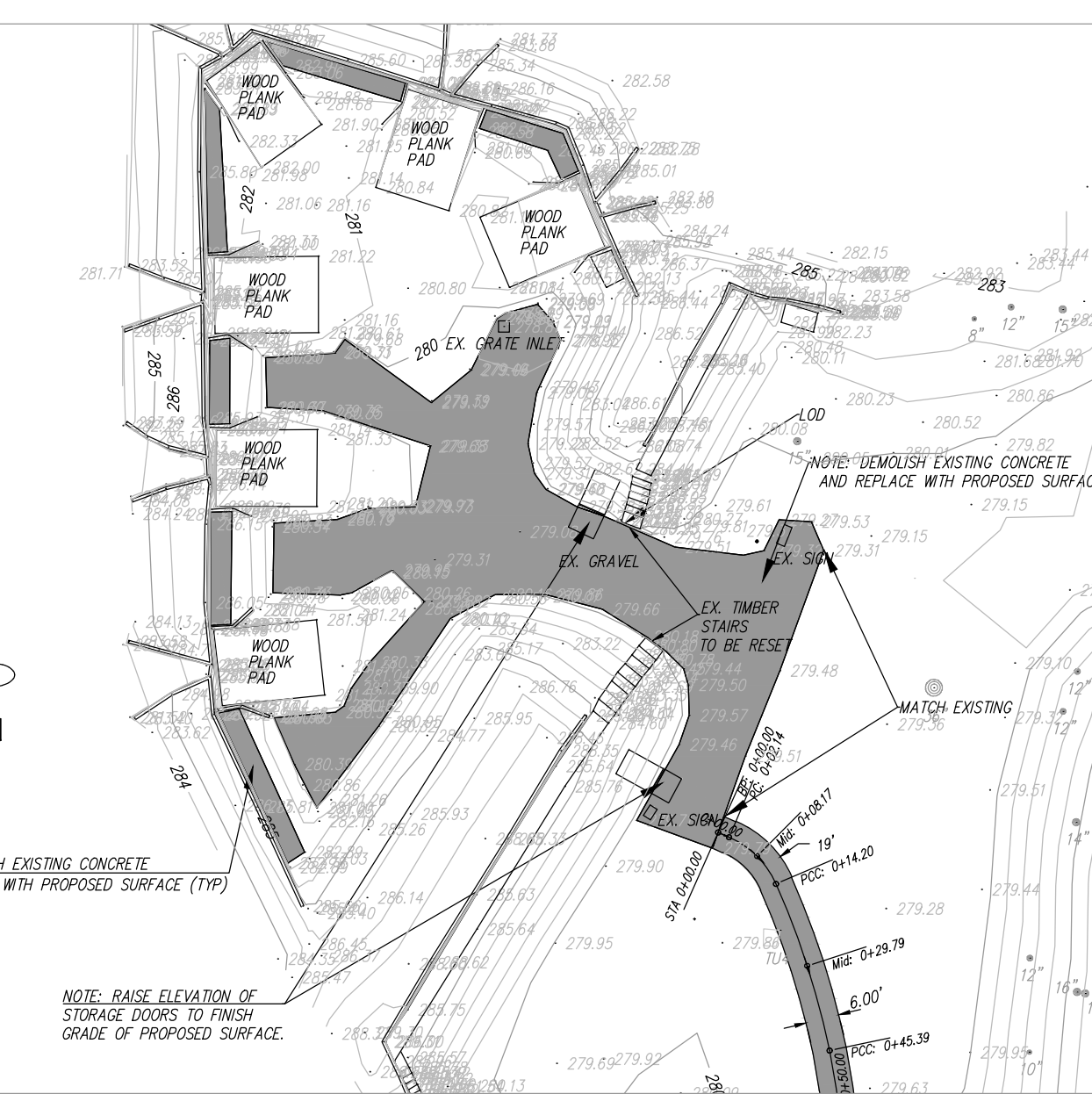
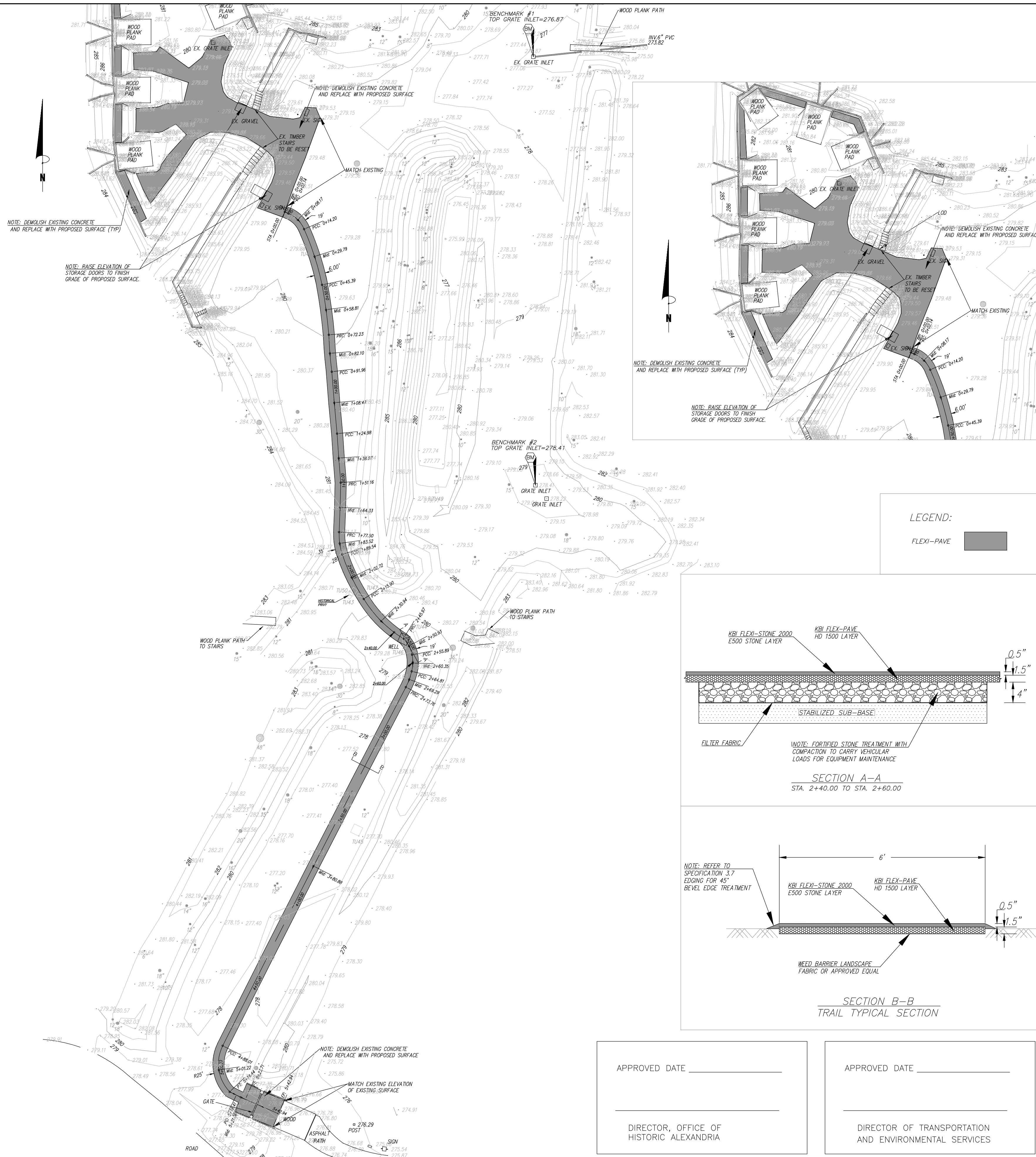
THIS PROJECT CALLS FOR THE CONSTRUCTION OF AN ADA ACCESSIBLE, POROUS, NON-CRACKING, INSULATED, FLEXIBLE WALKWAY WITHIN THE HISTORIC FORT AREA AT FT. WARD PARK, WHICH IS OWNED BY THE CITY OF ALEXANDRIA AT 4301 BRADDOCK ROAD. IN ADDITION TO CIVIL WAR FORTIFICATIONS, THE PROPERTY CONTAINS BURIED REMNANTS OF OTHER UNION ARMY ACTIVITIES, TRACES OF NATIVE AMERICAN OCCUPATION, AND EVIDENCE OF AN AFRICAN-AMERICAN NEIGHBORHOOD KNOWN AS "THE FORT" THAT THRIVED ON THE SITE FROM AT LEAST THE 1870S UNTIL THE PARK WAS CREATED IN THE EARLY 1960S. THE AFRICAN-AMERICAN COMMUNITY INCLUDED HOMES, OTHER BUILDINGS SUCH AS A SCHOOLHOUSE/CHURCH, AND CEMETERIES. THE ARCHAEOLOGICAL INVESTIGATION OF THE CURRENT PROJECT AREA INCLUDED SHOVEL TEST EXCAVATIONS AND LARGER HAND-EXCAVATED ARCHAEOLOGICAL UNITS ALONG THE ALIGNMENT OF THE PROPOSED WALKWAY WITH SPECIAL EMPHASIS ON THE AREAS WHERE THE CIVIL WAR WELL AND FLAGSTAFF ONCE STOOD AND WHERE A POST-CIVIL WAR RESIDENCE EXISTED.

PROJECT NOTES:

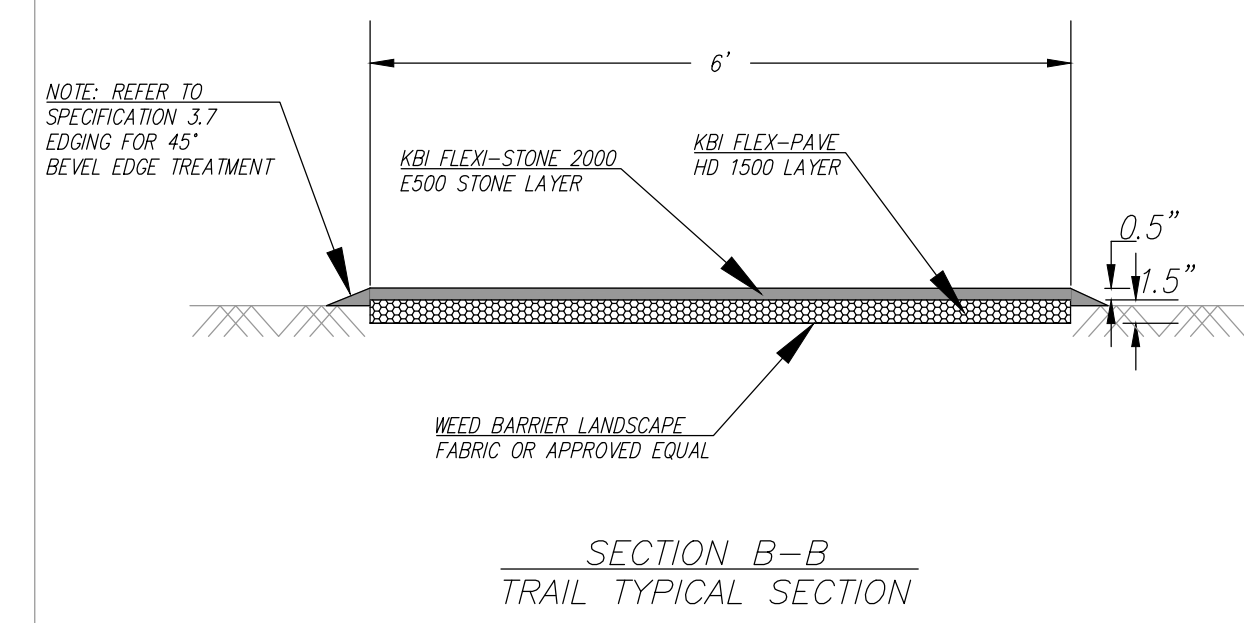
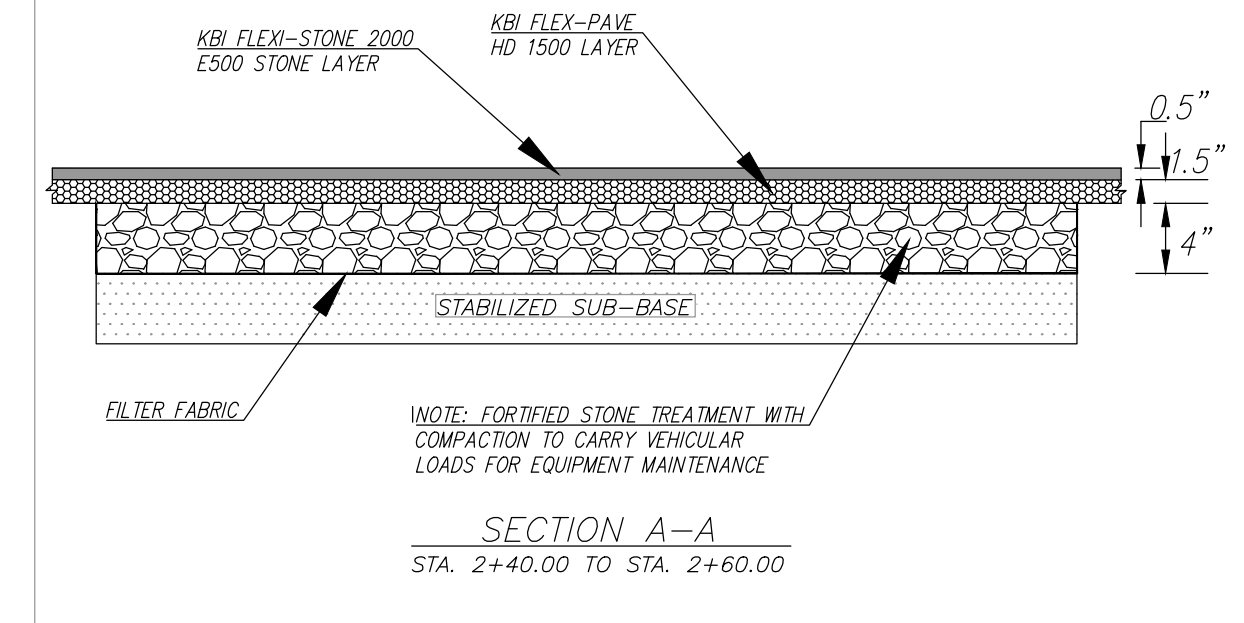
1. TREE PRESERVATION: THERE WILL BE NO ADVERSE WALKWAY IMPACTS TO THE EXISTING TREES. EFFORTS WILL BE MADE TO KEEP THE PROPOSED WALKWAY A PRESCRIBED DISTANCE AWAY FROM INDIVIDUAL TREES, ACCORDING TO THE FOLLOWING FORMULA: A DISTANCE IN FEET EQUAL TO THE DIAMETER OF THE TREE TRUNK IN INCHES. TREE PROTECTION WILL BE APPROVED IN-FIELD BY THE CITY ARBORIST PRIOR TO COMMENCEMENT OF GROUND DISTURBING ACTIVITIES.
2. THE LIMITS OF DISTURBANCE MAY BE MODIFIED BY A CITY INSPECTOR IN THE FIELD TO PROVIDE ACCESS TO SOME WORK AREAS.
3. ALL WORK ASSOCIATED WITH THIS PROJECT SHALL BE WITHIN THE LIMITS OF DISTURBANCE UNLESS MODIFIED AND APPROVED BY A CITY INSPECTOR. VEHICLES, CONSTRUCTION STAGING, OR STORAGE OF MATERIALS NOT WITHIN THE LIMITS OF DISTURBANCE SHALL BE APPROVED BY RPCA, OHA, AND THE CITY ARCHEOLOGIST.

GENERAL NOTES:

1. VERTICAL DATUM: NAVD '88
2. HORIZONTAL DATUM: NAD '83
3. BENCH MARKS:
BM#1: ELEVATION = 276.87
DESCRIPTION = TOP OF GRATE INLET
BM#2: ELEVATION = 278.41
DESCRIPTION = TOP OF GRATE INLET
4. THE CITY SURVEYORS ARE TO VERIFY FIELD CONDITIONS PRIOR TO AND DURING CONSTRUCTION AND NOTIFY T&ES AT 746-4035 IMMEDIATELY OF ANY DISCREPANCIES BETWEEN ACTUAL FIELD CONDITIONS AND APPROVED PLAN.
5. EXISTING UNDERGROUND UTILITIES ARE KNOWN TO EXIST IN AND AROUND THE PROPOSED WORK AREAS. EXISTING UNDERGROUND UTILITY INFORMATION IS TAKEN FROM AVAILABLE RECORDS. THE CONTRACTOR IS RESPONSIBLE TO CONTACT "MISS UTILITY" UTILITY SERVICE PROTECTION CENTER AT 1-800-552-7001 REGARDING THE LOCATION OF THESE UNDERGROUND UTILITIES, AND FOR VERIFYING THE EXACT LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGES THAT MAY OCCUR DUE TO HIS FAILURE TO LOCATE AND PROTECT THESE UNDERGROUND FACILITIES.
6. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGES TO EXISTING ROADS AND UTILITIES THAT OCCUR AS A RESULT OF THIS CONSTRUCTION PROJECT WITHIN OR CONTIGUOUS TO EXISTING CITY OR STATE RIGHT-OF-WAYS.
7. THE CITY OF ALEXANDRIA DEPARTMENT OF T&ES DIVISION OF ENVIRONMENTAL QUALITY MUST BE NOTIFIED IF UNUSUAL OR UNANTICIPATED CONTAMINATION IS ENCOUNTERED ON THE SITE. SOIL CONTAMINATION AND RELEASES TO THE ENVIRONMENT WILL BE HANDLED IN ACCORDANCE WITH FEDERAL, STATE, AND CITY REGULATIONS.
8. ALL CONSTRUCTION ACTIVITIES SHALL COMPLY WITH THE ALEXANDRIA NOISE CONTROL CODE, TITLE 11, CHAPTER 5, WHICH PERMITS CONSTRUCTION ACTIVITY TO OCCUR BETWEEN THE FOLLOWING HOURS: MONDAY THROUGH FRIDAY 7AM TO 6PM AND SATURDAY FROM 9AM TO 6PM. NO CONSTRUCTION ACTIVITY IS PERMITTED ON SUNDAY. ANY DEVIATION FROM THESE WORK HOURS SHALL REQUIRE CITY APPROVAL.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE OWNER OF ANY CHANGES OR CONDITIONS ATTACHED TO PERMITS OBTAINED FROM ANY AUTHORITY ISSUING PERMITS. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING PERMITS FOR THE PROJECT.
10. THE CONTRACTOR SHALL VISIT THE SITE AND SHALL VERIFY EXISTING CONDITIONS PRIOR TO STARTING CONSTRUCTION.
11. ALL AREAS, ON OR OFF-SITE, WHICH ARE DISTURBED BY THIS CONSTRUCTION AND WHICH ARE NOT PAVED OR BUILT UPON, SHALL BE ADEQUATELY STABILIZED TO CONTROL EROSION AND SEDIMENTATION. THE MINIMUM ACCEPTABLE STABILIZATION SHALL CONSIST OF PERMANENT GRASS, SEED MIXTURE TO BE AS RECOMMENDED BY THE CITY AGENT. ALL SLOPES 3:1 AND GREATER SHALL BE SODDED AND PEGGED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE CITY OF ALEXANDRIA.
12. DAMAGE TO ANY EXISTING ENTRANCES, CURB AND CUTTER, PAVEMENT OR OTHER EXISTING STRUCTURES NOT PROPOSED TO BE DISTURBED WITH THIS PROJECT, WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AND MUST BE REPAIRED TO THE SATISFACTION OF THE CITY OF ALEXANDRIA, VIRGINIA DEPARTMENT OF TRANSPORTATION, AND ANY ADJOINING OWNERS THAT MAY BE AFFECTED.
13. THE DESIGN, CONSTRUCTION, FIELD PRACTICES AND METHODS SHALL CONFORM TO THE REQUIREMENTS SET FORTH BY THE CITY OF ALEXANDRIA AND ITS CURRENT ZONING ORDINANCE AND CONSTRUCTION STANDARDS MANUAL. FAILURE TO COMPLY WITH THE CODE, APPLICABLE MANUALS, PROVISIONS OF THE CONSTRUCTION AND ESCROW AGREEMENTS OR THE PERMITS SHALL BE DEEMED A VIOLATION.
14. 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 THE CITY OF ALEXANDRIA.
15. THE STAKEOUT SHALL BE PERFORMED BY THE CITY'S SURVEY DEPARTMENT.
16. THERE ARE MAPPED RESOURCE PROTECTION AREAS (RPA) ON THIS PROPERTY.
17. ALL EROSION CONTROLS SHALL CONFORM TO THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK (THIRD EDITION 1992) AND MUST BE SUBMITTED AND APPROVED BY T&ES.
18. ALL CONSTRUCTION ACTIVITIES SHALL CONFORM WITH LATEST EDITION OF OSHA REGULATIONS AND GUIDELINES.
19. NO EXISTING IMPROVEMENTS ARE TO BE REMOVED UNLESS NOTED AS SUCH, AND /OR APPROVED BY A CITY INSPECTOR.



LEGEND:
FLEXI-PAVE



APPROVED DATE _____
DIRECTOR, OFFICE OF HISTORIC ALEXANDRIA

APPROVED DATE _____
DIRECTOR OF TRANSPORTATION AND ENVIRONMENTAL SERVICES

FORT WARD PARK/BASTION WALKWAY PROJECT

PROPOSED CONDITIONS

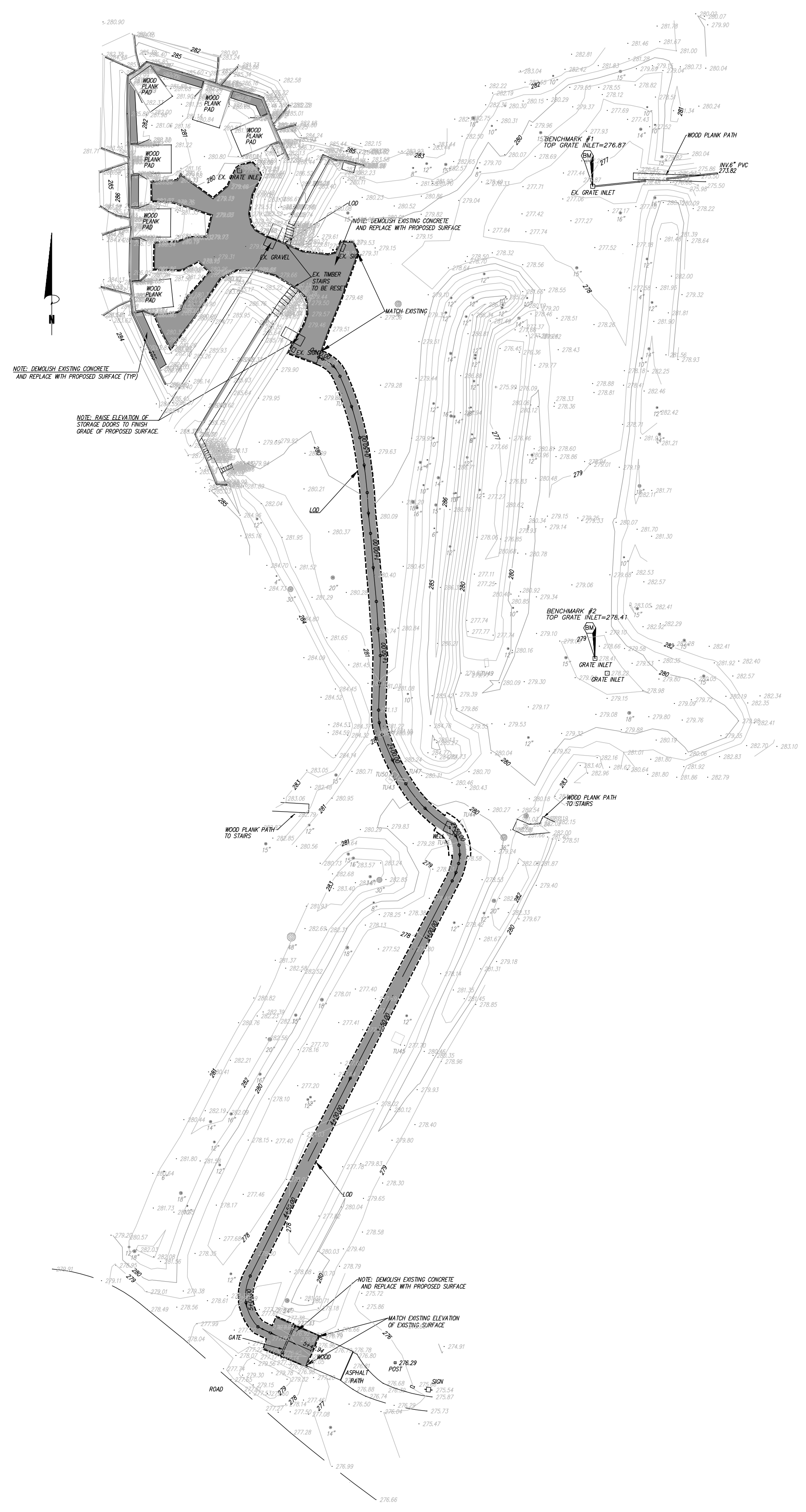
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CITY ENGINEER:	Date:		
DIRECTOR T&ES:	Date:		

Scale: 1" = 30' Project No. 12-114 Sheet 3 of 6

STORMWATER QUALITY ANALYSIS:
N/A



TOTAL DISTURBED AREA:
0.17 ACRES (7,208 SQ.FT.)

NOTE:
DISTURBED AREA REPRESENTS SURFACE AREA OF WALKWAY.
THERE WILL BE NO IMPERVIOUS SURFACE PROPOSED WITH
THIS PROJECT, ONLY REMOVING GRASS WITH WEED
WACKING, COMPACTION OF NATURAL EARTH, INSTALLATION
OF WEED BARRIERS, AND INSTALLATION OF PERVIOUS
KBI-FLEXI PAVE ONTO INSTALLED WEED FABRIC.

APPROVED DATE _____

DIRECTOR OF TRANSPORTATION
AND ENVIRONMENTAL SERVICES

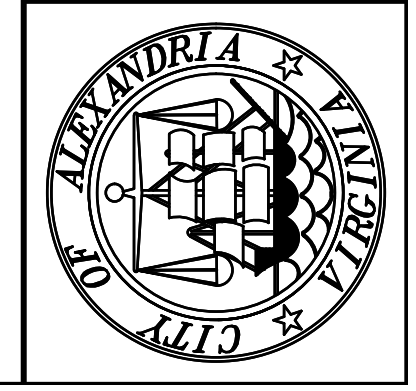
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DIRECTOR, OFFICE OF
HISTORIC ALEXANDRIA

FORT WARD PARK/BASTION WALKWAY PROJECT

**EVALUATION PLAN &
STORMWATER QUALITY
ANALYSIS**

CITY OF ALEXANDRIA, VIRGINIA
Transportation & Environmental Services
P. O. Box 178
Alexandria, Virginia 22313



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Scale: 1"=40' Project No.12-114 Sheet 4 of 6

KEY DESCRIPTIONS
VIRGINIA UNIFORM CODING SYSTEM

SF —SF—SF—SF—SF— SILT FENCE
STD. & SPEC. 3.38

LEGEND

LIMITS OF CLEARING AND GRADING ————

EXISTING CONDITIONS SURVEY NOTES:

UTILITY INFORMATION, AS SHOWN ON THIS PLAN, IS TAKEN FROM THE RECORDS AND/OR FIELD SURVEY COMPLETED 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 LAND DISTURBANCE. CONTRACTOR/ENGINEER SHOULD DIG TEST PITS BY HAND AT ALL UTILITY CROSSINGS TO VERIFY EXACT LOCATION.

MAINTENANCE PROGRAM:

THE SITE REPRESENTATIVE, SHALL MAKE A VISUAL INSPECTION OF ALL MECHANICAL CONTROLS AND NEWLY STABILIZED AREAS (I.E. SEEDED AND MULCHED AND/OR SODDED AREAS) ON A DAILY BASIS; ESPECIALLY AFTER A HEAVY RAINFALL EVENT TO ENSURE THAT ALL CONTROLS ARE MAINTAINED AND PROPERLY FUNCTIONING. ANY DAMAGED CONTROLS SHALL BE REPAIRED PRIOR TO THE END OF THE WORK DAY INCLUDING RESEEDING AND MULCHING OR RE-SODDING IF NECESSARY.

TOTAL DISTURBED AREA:
0.17 ACRES (7,208 SQ.FT.)

NOTE:

DISTURBED AREA REPRESENT SURFACE AREA OF WALKWAY. THERE WILL BE NO EXCAVATION PROPOSED WITH THIS PROJECT ONLY REMOVING GRASS WITH WEED WACKER COMPACTION OF NATURAL EARTH, INSTALLATION OF WEED BARRIER AND INSTALLATION OF K&I FLEXI-PAVE ONTO INSTALLED WEED FABRIC.

RODENT ABATEMENT NOTE:

PRIOR TO THE ISSUANCE OF A DEMOLITION PERMIT OR LAND DISTURBANCE PERMIT, A RODENT ABATEMENT PLAN SHALL BE SUBMITTED TO THE CITY OF ALEXANDRIA CODE ENFORCEMENT THAT WILL OUTLINE STEPS THAT WILL BE TAKEN TO PREVENT THE SPREAD OF RODENTS FROM THE PROJECT SITE TO THE SURROUNDING COMMUNITY AND SEWERS.

A RODENT ABATEMENT PLAN WILL BE PROVIDED TO THE SATISFACTION OF THE CITY OF ALEXANDRIA. AN EXTERMINATOR MUST BE CONTRACTED AT THE OWNERS EXPENSE TO PROVIDE ABOVE GROUND "BAIT BOXES" AT THE EXTERMINATORS DISCRETION ALONG THE PERIMETER OF THE PROPERTY ONE WEEK PRIOR TO THE BEGINNING OF EXCAVATION. PROOF OF WORK PERFORMED BY EXTERMINATOR MUST BE REPORTED TO MR. ED TURNER, CITY OF ALEXANDRIA CODE ENFORCEMENT. A COPY MUST BE FAXED TO (FAX) 703-838-3880.

A RODENT ABATEMENT PLAN SHALL BE SUBMITTED TO THE OFFICE OF CODE ENFORCEMENT PRIOR TO THE RELEASE OF THE SITE PLAN. THE PERIMETER SHALL BE BAITED 7 DAYS PRIOR TO ANY LAND DISTURBANCE.

PERMIT NOTE:

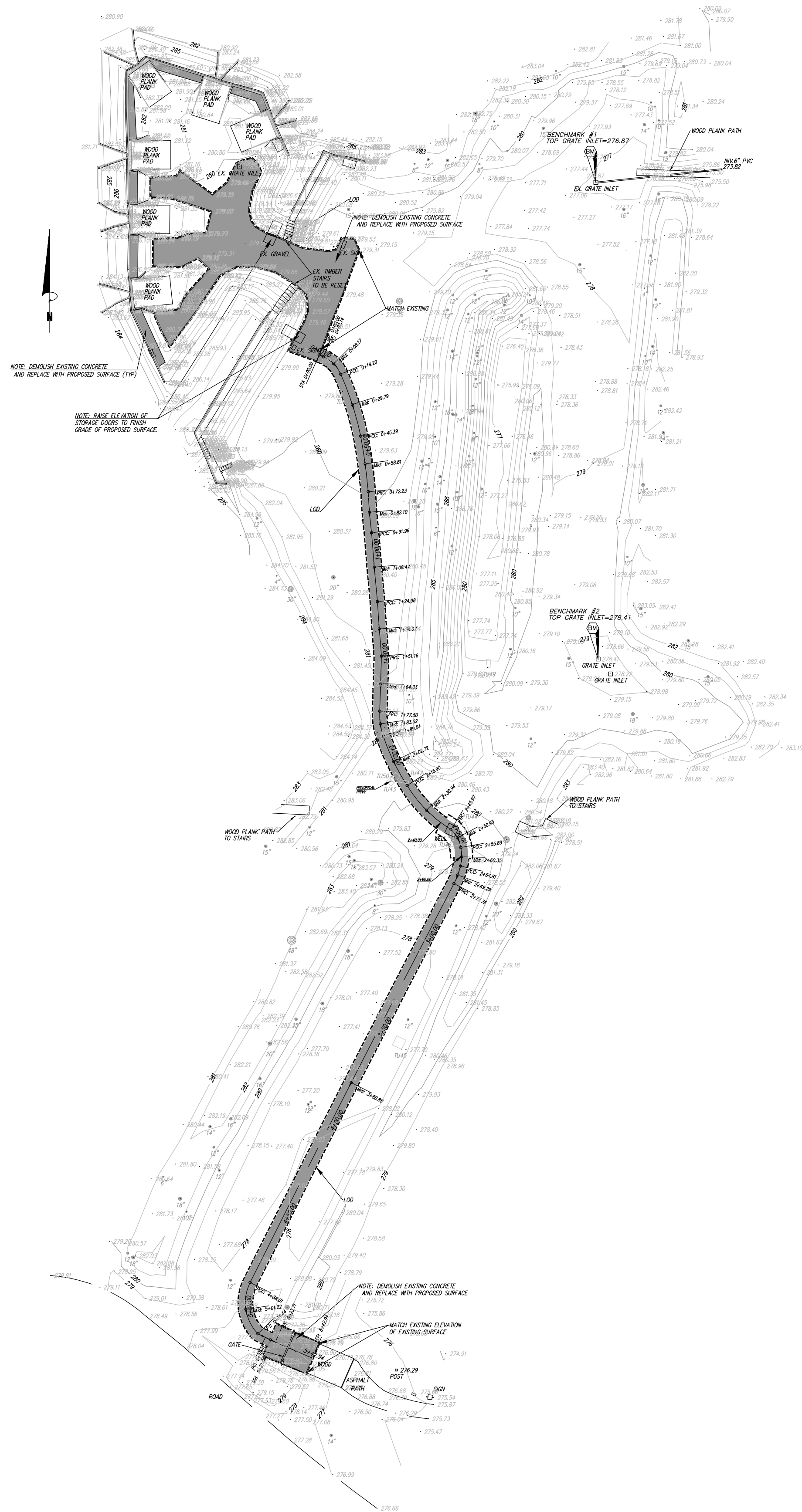
ALL REQUIRED STATE AND FEDERAL PERMITS, WHICH COULD INCLUDE PERMITS FROM THE VIRGINIA DEPARTMENT OF CONSERVATION AND RECREATION, VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY, ENVIRONMENTAL PROTECTION AGENCY, ARMY CORPS OF ENGINEERS AND VIRGINIA MARINE RESOURCES, MUST BE IN PLACE FOR ALL PROJECT CONSTRUCTION AND MITIGATION WORK PRIOR TO RELEASE OF THE FINAL SITE PLAN. THIS INCLUDES THE STATE REQUIREMENT FOR A VIRGINIA STORMWATER MANAGEMENT PROGRAM (VSMP) GENERAL PERMIT FOR DISCHARGES OF STORMWATER FROM CONSTRUCTION ACTIVITIES FOR LAND DISTURBING ACTIVITIES GREATER THAN 2,500 SQUARE FEET.

SEEDING NOTE:

- SEED SHALL BE PROCURED FROM NEW OF THE YEAR SEED CROPS, FREE OF FOREIGN MATERIAL OR WEED SEEDS.
- REPLACEMENT OR OVERSEEDING MIXES SHALL MATCH OR COMPLEMENT ORIGINAL INSTALLATION.
- PROVIDE CONTINUOUS UNIFORM AND CONSISTENT COVERAGE.
- SEEDING INSTALLATION SHALL CONFORM TO THE VDOT SEEDING SPECIFICATIONS.

PERMANENT SEEDING MIXTURE NOTE:
PER THE VIRGINIA EROSION SEDIMENT CONTROL HANDBOOK PERMANENT SEEDING SHALL BE APPLIED TO AS FOLLOWS:

175-200 LBS. PER ACRE	
KENTUCKY 31 OR TURF TYPE TALL FESCUE	95-100%
IMPROVED PERENNIAL RYEGRASS	5%
KENTUCKY BLUEGRASS	5%



E/S CONTROL NARRATIVE:

PROJECT DESCRIPTION
THIS PROJECT CALLS FOR THE CONSTRUCTION OF A SIX FOOT WALKWAY IN THE CENTER OF THE FORT WHERE THE CIVIL WAR WELL AND FLAGSTAFF STOOD, WITHIN FORT WARD PARK, OWNED BY THE CITY OF ALEXANDRIA AT 4301 BRADDOCK ROAD. THE PROJECT DISTURB AREA IS 0.17 ACRES AND THIS DISTURBANCE REPRESENTS SURFACE AREA OF THE WALKWAY. SINCE THERE WILL BE NO EXCAVATION PROPOSED WITH THIS PROJECT, ONLY REMOVING GRASS WITH WEED WACKING, COMPACTION OF NATURAL EARTH, INSTALLATION OF WEED BARRIERS, AND INSTALLATION OF KBI-FLEXI PAVE ONTO INSTALLED WEED FABRIC.

EXISTING CONDITIONS
THE SITE IS CURRENTLY OCCUPIED BY ENTITIES RELATED TO THE CIVIL WAR ERA, SUCH AS THE OLD CIVIL WAR WELL, OLD CIVIL WAR FLAGSTAFF LOCATION AND POST CIVIL WAR RESIDENCE. THE NORTHWEST BASTION IS ALSO LOCATED IN THIS AREA.

CRITICAL AREA
CRITICAL AREAS ON-SITE INCLUDE THE LIMITS OF EXCAVATION. SPECIAL CARE SHALL BE TAKEN TO ENSURE NO DISTURBANCE OCCURS OFF-SITE.

EROSION CONTROL PROGRAM
SITE DISTURBANCE IS TO BE KEPT TO A MINIMUM. SILT FENCE IF NEEDED WILL BE PROVIDED ALONG THE LOWER PORTION OF THE DISTURBED AREAS. TEMPORARY SEEDING AND MULCHING ARE TO BE APPLIED TO ANY AREA ON-SITE NOT CONTINUOUSLY WORKED FOR 7 DAYS AFTER DISTURBANCE.

SEDIMENT CONTROL PRACTICES

- INSTALL SILT FENCE & STRAW BALE BARRIER WHERE APPLICABLE.
- WHEN PERIMETER CONTROLS ARE IN PLACE, ANY EXCAVATION MAY BE DONE. DUE TO THE SMALL SIZE OF AREA BEING DISTURBED, SEDIMENTS FROM DISTURBANCE WILL BE CONTAINED WITHIN THE SITE.
- AFTER EXCAVATION OPERATIONS HAVE ENDED AND ALL DISTURBED AREAS HAVE BEEN STABILIZED, ALL CONTROLS SHALL BE REMOVED AND THE GROUND PERMANENTLY STABILIZED WITH VEGETATION AS APPROVED BY THE CITY OF ALEXANDRIA INSPECTOR.

A "CERTIFIED LAND DISTURBER" (CLD) SHALL BE NAMED IN A LETTER TO THE DIVISION CHIEF OF CONSTRUCTION AND INSPECTION (C&I), DEPARTMENT OF TRANSPORTATION AND ENVIRONMENTAL SERVICES PRIOR TO ANY LAND DISTURBING ACTIVITIES. IF THE CLD CHANGES DURING THE PROJECT, THAT CHANGE MUST BE NOTED IN A LETTER TO THE DIVISION CHIEF. A NOTE TO THIS EFFECT SHALL BE PLACED ON THE PHASE I EROSION AND SEDIMENT CONTROL SHEETS ON THE SITE PLAN. (C&I)

STOCK PILE NOTE:

ALL EXCAVATED MATERIAL FROM THE EXPLORATION TRENCHES WILL BE STORED WITHIN THE LIMITS OF DISTURBANCE. SILT FENCE WILL BE PROVIDED IF NECESSARY AROUND THE STOCKED PILED MATERIAL TO PREVENT SEDIMENT LADEN RUNOFF.

SILT FENCE NOTE:

THE INSTALLATION OF SILT FENCE CAN BE ON AN AS NEEDED BASIS TO BE DETERMINED BY THE INSPECTOR TO MINIMIZE THE EXTRA DISTURBANCE OF THE GROUND.

SEQUENCE OF CONSTRUCTION:

- STAKEOUT THE ALIGNMENT OF THE PROPOSED WALKWAY.
- REMOVE GRASS AND OTHER VEGETATION IN THE WALKWAY AREA WITH WEED WACKING.
- COMPACT NATURAL EARTH WITHIN THE WALKWAY AREA.
- LAY WEED FABRIC UNDER PROPOSED WALKWAY AREA.
- CONSTRUCT KBI-FLEXI PAVE IN AREA OF WALKWAY. MAINTAIN ACCESS OF THE INNER FORT AT ALL TIMES DURING THE DESIGNATED HOURS OF OPERATION.

APPROVED DATE _____

DIRECTOR OF TRANSPORTATION AND ENVIRONMENTAL SERVICES

APPROVED DATE _____

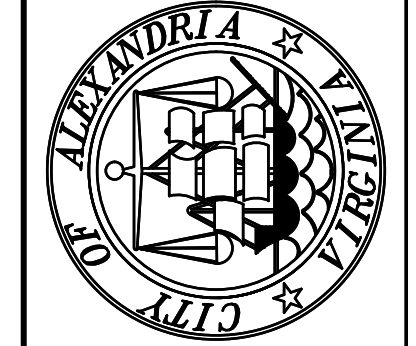
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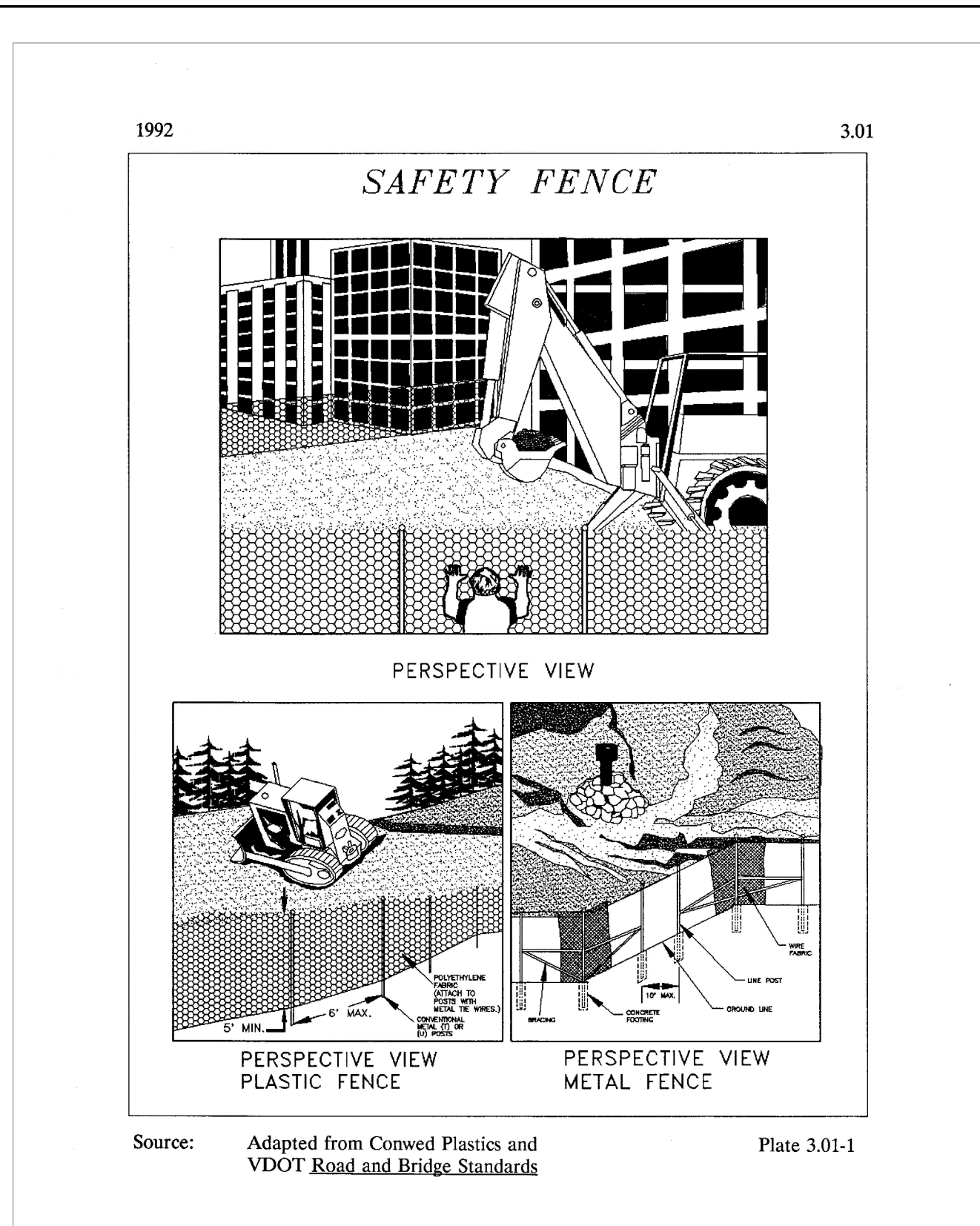
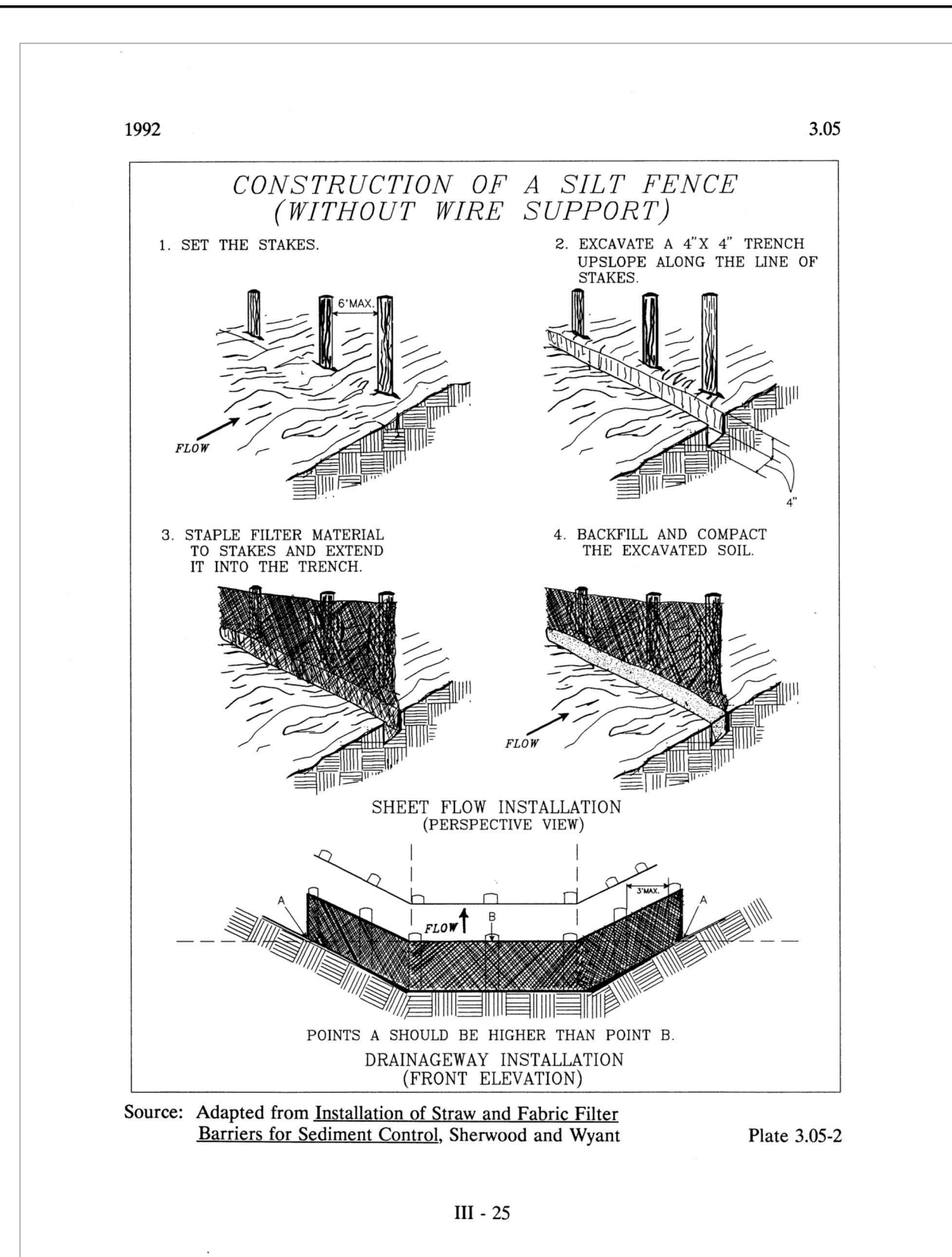
FORT WARD PARK/BASTION WALKWAY PROJECT

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E&S CONTROL
PLAN & NOTES

CITY OF ALEXANDRIA, VIRGINIA
Transportation & Environmental Services
P. O. Box 178
Alexandria, Virginia 22313





EROSION/SEDIMENT CONTROL NOTES

1. THE CONTRACTORS ARE TO KEEP DENUDED AREAS TO A MINIMUM. AN EROSION AND SEDIMENT CONTROL PLAN SHALL BE SUBMITTED TO T&ES FOR APPROVAL FOR REFERENCE BY THE EROSION AND SEDIMENT CONTROL PERMIT. ALL EROSION / SEDIMENT CONTROL MEASURES WILL CONFORM TO THE CURRENT STANDARDS OF THE CITY OF ALEXANDRIA AND THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK.
2. UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE CONSTRUCTED AND MAINTAINED ACCORDING TO THE MINIMUM STANDARDS AND SPECIFICATIONS OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK AND VIRGINIA REGULATIONS §4VAC50-30 EROSION AND SEDIMENT CONTROL REGULATIONS.
3. T&ES 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 IS REQUIRED TO ATTEND PRE-CONSTRUCTION MEETING.
4. ALL EROSION AND SEDIMENT CONTROL MEASURES 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.
5. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
6. PRIOR TO COMMENCING ANY 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 OWNER FOR REVIEW AND APPROVAL BY THE CITY OF ALEXANDRIA.
7. ALL DISTURBED AREAS OF THE SITE THAT ARE NOT TO BE WORKED FOR SEVEN OR MORE CALENDAR DAYS MUST BE STABILIZED.
8. ALL TEMPORARY EARTH BERMS, DIVERSIONS AND SEDIMENT CONTROL DAMS SHALL BE SEED AND MULCHED OR OTHERWISE STABILIZED AS SOON AS POSSIBLE BUT NO LATER THAN 48 HOURS AFTER GRADING.
9. 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.
10. DURING DEWATERING OPERATIONS, WATER WILL BE PUMPED THROUGH AN APPROVED FILTERING DEVICE.
11. 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.
12. 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 NOT BE WORKED FOR SEVEN OR MORE CALENDAR DAYS. PERMANENT STABILIZATION SHALL BE APPLIED TO AREAS THAT ARE TO BE LEFT DORMANT FOR MORE THAN ONE YEAR.
13. ANY STOCKPILED MATERIAL WHICH WILL REMAIN IN PLACE LONGER THAN 10 DAYS IS TO BE SEEDED FOR TEMPORARY VEGETATION AND MULCHED WITH STRAW MULCH OR OTHERWISE STABILIZED. ALL APPLICABLE EROSION AND SEDIMENT CONTROL MEASURES MUST BE EMPLOYED FOR STOCKPILE AREAS.
14. ANY DENUDED SLOPES, EITHER DISTURBED OR CREATED BY THIS PLAN THAT EXCEED 25% ARE TO BE SODDED AND PEGGED FOR STABILITY AND EROSION CONTROL.
15. TO THE EXTENT POSSIBLE ALL TREE PROTECTION SHALL BE INSTALLED AT THE DRIP LINE OF THE TREE(S).
16. AT THE COMPLETION OF THE PROJECT AND PRIOR TO THE RELEASE OF THE BOND ALL DISTURBED AREAS SHALL BE STABILIZED AND ALL TEMPORARY EROSION AND SEDIMENT CONTROL SHALL BE REMOVED.
17. E&S CONTROL FOR ANY ADJACENT STORM INLETS SHALL BE PROVIDED AT THE DISCRETION OF THE CM&I INSPECTOR AND/OR IF SEDIMENT FROM THE PROJECT IS FLOWING TOWARDS THEM.

ENVIRONMENTAL SITE ASSESSMENT

THERE ARE NO TIDAL WETLANDS, TIDAL SHORES, CONNECTED TIDAL WETLANDS, ISOLATED WETLANDS, OR BUFFER AREAS ASSOCIATED WITH SHORES OR WETLANDS LOCATED ON THIS SITE. FURTHER THERE ARE NO WETLANDS PERMITS REQUIRED FOR THIS 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 TO PUBLIC SAFETY OR A RELEASE TO THE ENVIRONMENT, THE ALEXANDRIA FIRE DEPARTMENT MUST BE CONTACTED IMMEDIATELY BY CALLING 911. THE TANK OR CONTAINERS REMOVAL, ITS CONTENTS, ANY SOIL CONTAMINATION AND RELEASES TO THE ENVIRONMENT WILL BE HANDLED IN ACCORDANCE WITH FEDERAL, STATE AND CITY REGULATIONS.

ALL WELLS INCLUDING MONITORING WELLS MUST BE CLOSED IN ACCORDANCE WITH WELL REGULATIONS. CONTACT JOE FIANDER AND COORDINATE WITH THE ALEXANDRIA HEALTH DEPARTMENT AT 703-838-4400 EXT. 255.

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:
 MONDAY THROUGH FRIDAY FROM 7AM TO 6PM AND
 SATURDAYS FROM 9AM TO 6PM.
 NO CONSTRUCTION ACTIVITIES ARE PERMITTED ON SUNDAYS.
 PILE DRIVING IS FURTHER RESTRICTED TO THE FOLLOWING HOURS:
 MONDAY THROUGH FRIDAY FROM 9AM TO 6PM AND SATURDAYS FROM 10AM TO 4PM.

202.431.1961
 WWW.FLEXI-PAVE.COM
 SUSTAINABLE | RECYCLED | PERVIOUS | LEED | ADA | LID

FLEXIBLE POROUS PAVING (32 1/2" x 43")
 MADE OF 100% RECYCLED PAVERIES, TRIPS, GRANITE & LIME/ASH
 4000 INCHES PER HR. | 70,000 PSI | IMMUNE TO FREEZE/THAW & SALT

CAPITOL FLEXI-PAVE

Beach Stone	River Rock	Forest Bed	Coal Mine
Black Raspberry	Pewter	Emerald Ruby	Shadow Green
Irish Ebony	Earl Grey	Peppermint	Cayenne
Spotted Crimson	Mountain View	Umber	Coffee
Comet	Mossy Slate	Cabernet	Forest Green
Chestnut	Cocoa	Ebony	Olive Fog
Redwood	Evergreen	Cypress	Chocolate

KBI Flexi-Pave is a porous, non-cracking, insulating, flexible paving product that can be used for a variety of applications including: roofing; parking lots; pathways/sidewalks; golf paths; erosion mitigation; median strips; tree surrounds; play structures, horse stables, bike share pads, diffusion strips, etc...

SPECIFICATIONS:

- THE CERTIFIED INSTALLER IS RESPONSIBLE FOR SUPPLYING AND INSTALLING A WARRANTED MATERIAL THAT MEETS THE FOLLOWING SPECIFICATIONS: THE MATERIAL MUST CONSIST OF AND UTILIZE RECYCLED TIRES; AGGREGATE AND BINDER.
- THE MATERIAL MUST BE APPLIED IN SUCH MANNER THAT IT IS COMPLETELY FREE OF JOINTS OR SEAMS, PROVIDES IMPACT ABSORPTION, IS FLEXIBLE TO SUBSTRATE MOVEMENT AND ROOT GROWTH AND IS NON-CRACKING DURING FREEZE THAW CONDITIONS.
- THE MATERIAL IS TO BE POROUS TO PRECIPITATION WITH AN 18% - 22% DYNAMIC FLEXIBLE VOID CAPACITY. THE PLACEMENT OF MATERIAL MUST BE ABLE TO ACCOMMODATE UP A 30% SLOPE.
- THE MATERIAL MUST WITHSTAND CONTINUAL DAILY FOOT, BICYCLE, WHEELCHAIR AND VEHICULAR CROSSINGS.
- APPLICATION OF THE MATERIAL WILL OCCUR OVER VARIOUS SUBSTRATE MATERIALS WITH THE MAJORITY OF APPLICATION OCCURRING OVER NATURAL EARTH. THE PRODUCT MUST RETAIN DURABILITY OVER THE VARIOUS SUBSTRATES.
- THE MATERIAL IS AVAILABLE IN A SELECTION OF COLOR CHOICES.
- THE MATERIAL SHALL BE RESISTANT TO THE FOLLOWING ELEMENTS: TRANSMISSION, HYDRAULIC, AND BRAKE FLUIDS, GASOLINE, DIESEL, SALTWATER, OIL, CHLORINE, OZONE, BROMINE, AND MURIATIC ACID.
- THE MATERIAL SHALL ALSO RESIST UV DEGRADATION AND SLIPPING.
- THE MATERIAL WILL BE ADA COMPLIANT.

APPROVED DATE _____

 DIRECTOR OF TRANSPORTATION AND ENVIRONMENTAL SERVICES

APPROVED DATE _____

 DIRECTOR, OFFICE OF HISTORIC ALEXANDRIA

FORT WARD PARK/BASTION WALKWAY PROJECT

CITY OF ALEXANDRIA, VIRGINIA
 Transportation & Environmental Services
 P. O. Box 178
 Alexandria, Virginia 22313



DESIGN ENGINEER: RF	Date: 07/12
CADD ENGINEER: MS	Date: 07/12
DIVISION CHIEF:	Date:
CITY ENGINEER:	Date:
DIRECTOR T&ES:	Date:

Scale: NTS Project No.12-114 Sheet 6 of 6

NOTES & DETAILS