

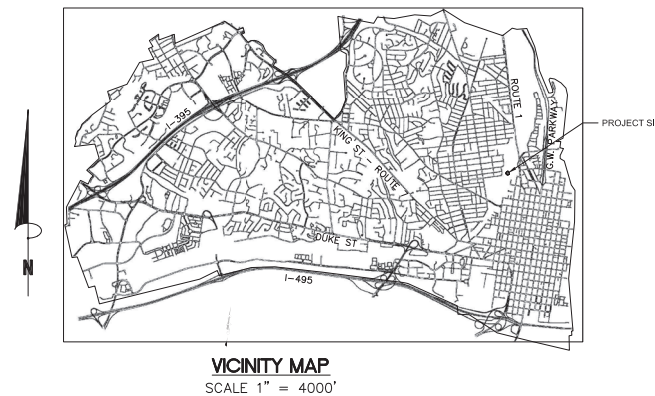
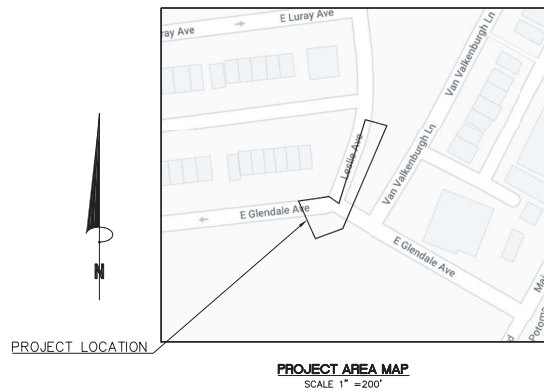
CITY OF ALEXANDRIA, VIRGINIA

CONCEPTUAL DESIGN



LESILIE AVENUE SIDEWALK

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PROJECT DESCRIPTION:

THE PURPOSE OF THE PROJECT IS TO PROVIDE 8' WIDE (800x1000000) PERVIOUS SIDEWALK ALONG LESLIE AVENUE FROM LESLIE / GLENDALE INTERSECTION ALL THE WAY TO AND CONNECTING IT TO THE EXISTING SIDEWALK AT THE LESLIE AVENUE ALSO PROVIDING LOW VISIBILITY CROSS WALK ACROSS LESLIE AVENUE AND GLENDALE AVENUE

DEPARTMENT OF TRANSPORTATION & ENVIRONMENTAL SERVICES.

APPROVED _____ DATE: _____

DIRECTOR _____

RECOMMENDED FOR APPROVAL _____

X _____ DATE: _____

DEPUTY DIRECTOR OF OPERATIONS _____

RECOMMENDED FOR APPROVAL _____

X _____ DATE: _____

DEPUTY DIRECTOR OF INFRASTRUCTURE & ENVIRONMENT _____

RECOMMENDED FOR APPROVAL _____

X _____ DATE: _____

DEPUTY DIRECTOR OF TRANSPORTATION _____

DEPARTMENT OF PROJECT IMPLEMENTATION

APPROVED _____

X _____ DATE: _____


DIRECTOR _____

RECOMMENDED FOR APPROVAL _____

X _____ DATE: _____

DIVISION CHIEF _____

CONCEPT DESIGN



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

REVISIONS	DATE	DESCRIPTION

ALEXANDRIA PROJECT NO.: 2103007
DATE OF PLAN ISSUANCE: _____
CONSULTANT PROJECT ID: 08/16/21
DESIGNED BY: JAA DATE: 08/16/21
DRAWN BY: JAA DATE: 08/16/21
CHECKED BY: DR DATE: _____
APPROVED BY: _____

LESILIE AVENUE SIDEWALK

COVER SHEET

SHEET
01 OF 05
SCALE : AS SHOWN



PROJECT NARRATIVE

THE PURPOSE OF THE PROJECT IS TO PROVIDE 5' WIDE PAVEMENT SIDEWALK ALONG LESLIE AVENUE FROM LESLIE /GLENDALE INTERSECTION ALL THE WAY TO AND CONNECTING IT TO THE EXISTING SIDEWALK AT THE LESLIE AVENUE/ALSO PROVIDING LOW VISIBILITY CROSS WALK ACROSS LESLIE AVENUE AND GLENDALE AVENUE.

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 09/2016, AND CANNOT BE GUARANTEED. FOR EXACT LOCATIONS OF EXISTING UNDERGROUND UTILITIES, NOTIFY MISS UTILITY AT 1-800-257-7177, 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: 6125 SQUARE FEET OR 0.141 ACRES OF WHICH 1070 SQUARE FEET OR 0.0246 ACRES WILL BE DISTURBED WITH THIS PROJECT.
- THE NATURAL SOILS AT THE SITE CONSIST OF URBAN LAND (HS-G).
- THE SITE IS LOCATED IN THE CHOPPELTON STREET 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, PIPES, 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 ERODIBLE/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:
 - MONDAY THROUGH FRIDAY FROM 7 AM TO 6 PM AND
 - SATURDAYS FROM 9 AM TO 6 PM.
 - NO CONSTRUCTION ACTIVITIES ARE PERMITTED ON SUNDAYS.
 - 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 (MICHAEL SHIPE)	571-203-5242
VERIZON COMMUNICATIONS (BRIAN HARLOW)	703-819-8822
COMCAST	703-926-0534
WASHINGTON GAS (MICHAEL STABLEIN)	703-750-4270
PEPCO	202-633-7500
VIRGINIA AMERICAN WATER (STEVEN CHEN)	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 SHALL 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 (VOHS) 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 SHALL 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 SHALL IMMEDIATELY NOTIFY THE CITY AND TAKE NECESSARY ACTION AND PROPER STEPS TO PROTECT THE FACILITY AND ASSURE THE CONTINUATION OF SERVICE.
- THE CONTRACTOR SHALL DIG TEST PITS AS REQUIRED FOLLOWING NOTIFICATION AND MARKING OF ALL EXISTING UTILITIES TO VERIFY THE LOCATION AND DEPTH OF EXISTING UTILITIES TEST HOLES TO BE PERFORMED AT LEAST 30 DAYS PRIOR TO START OF CONSTRUCTION. ANY DISCREPANCIES ARE TO BE REPORTED IMMEDIATELY TO THE CITY. REVISION AND APPROVAL BY REVIEWING AGENCIES SHALL BE OBTAINED, IF REQUIRED.
- THE CONTRACTOR SHALL WORK WITH THE CITY FOR THE COORDINATION OF WORK WITH REPRESENTATIVE UTILITY COMPANIES AND FOR THE IMPLEMENTATION OF REQUIRED UTILITY-RELATED WORK.
- THE CONTRACTOR SHALL VISIT THE SITE AND SHALL VERIFY EXISTING CONDITIONS PRIOR TO STARTING CONSTRUCTION.
- THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE CITY UPON ENCOUNTERING ANY HAZARDOUS MATERIALS DURING DEMOLITION AND/OR CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL 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 SHALL 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 SHALL PROTECT FROM DAMAGE ALL EXISTING ADJACENT AREAS, ALL ADJACENT AREAS DAMAGED DURING DEMOLITION AND/OR CONSTRUCTION ACTIVITIES SHALL BE RESTORED TO ORIGINAL OR BETTER CONDITION AT NO ADDITIONAL COST TO THE CITY.
- THE CONTRACTOR SHALL PROTECT AND PREVENT DAMAGE TO EXISTING UTILITY DISTRIBUTION FACILITIES.
- EXISTING CONSTRUCTION SHALL BE REMOVED TO NEAREST JOINT. NEW CONSTRUCTION SHALL BE PROVIDED AS SHOWN AND ANY DAMAGED AREA SHALL BE REPAIRED TO MATCH CONDITIONS EXISTING PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL 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 SHALL SUPERSEDE PROFILE ELEVATIONS. ADJUSTMENTS TO MEET FINISHED GRADE ELEVATIONS MAY BE REQUIRED.
- THE CONTRACTOR SHALL BACKFILL EXCAVATED AREAS WITH APPROVED MATERIALS AS PER THE REQUIREMENTS OF THE CITY.
- CONSTRUCTION STAKEOUT SHALL BE UNDER THE DIRECT SUPERVISION OF A LICENSED LAND SURVEYOR IN THE COMMONWEALTH OF VIRGINIA. CUT SHEETS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION.
- SMOOTH GRADE SHALL BE MAINTAINED FROM THE CENTERLINE OF THE EXISTING ROAD TO THE PROPOSED ENTRANCE AND/OR CURB & GUTTER TO PRECLUDE THE FORMING OF FALSE 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.
- 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 SHALL BE INCLUDED IN THE BID PRICE FOR "MAINTENANCE OF TRAFFIC (L.S)."
- THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY FOR THE CONSTRUCTION OF THE IMPROVEMENT WORK.
- THE COST OF INCIDENTAL WORK ASSOCIATED WITH THE PRICING SCHEDULE FOR WHICH THERE ARE NO SPECIFIC CONTRACT ITEMS, SHALL BE CONSIDERED AS PART OF THE GENERAL COST OF DOING THE WORK AND SHALL BE INCLUDED IN THE COST FOR THE VARIOUS CONTRACT ITEMS OR IN THE COST OF MOBILIZATION. NO ADDITIONAL PAYMENT WILL BE MADE THEREFOR.
- EARTHWORK, REMOVAL AND DISPOSAL OF EXCESS SOIL AND/OR UNSUITABLE MATERIAL, PROTECTION OF SUBGRADE FROM INCIDENT WEATHER, AND EXCAVATION- IF NECESSARY, INCLUDING UP TO 12 INCHES DEPTH OF OVER EXCAVATION AND/OR FILL TO FINISHED SUBGRADE WITH #214 AGGREGATE TO ACHIEVE REQUIRED COMPACTION LEVEL SHALL BE CONSIDERED AS PART OF THE GENERAL COST INCIDENTAL TO THE COST OF THE VARIOUS CONTRACT ITEMS LISTED UNDER THE PRICING SCHEDULE.
- CLEAR AND GRUB SHALL INCLUDE, BUT NOT LIMITED TO, THE REMOVAL OF ALL VEGETATION AND STUMPS DOWN TO A MINIMUM OF 6 INCHES BELOW PROPOSED GRADE.
- THE CONTRACTOR MUST PROTECT THE EXISTING BIO FILTER STRUCTURES FROM ANY SEDIMENT LATENT RUN OFF DURING CONSTRUCTION. AFTER INSPECTION A SEDIMENT IS FOUND TO HAVE ENTERED THE BIO FILTER STRUCTURE AS A RESULT OF CONSTRUCTION THE CONTRACTOR MUST CLEAN THE STRUCTURE AT NO ADDITIONAL COST TO THE CITY.

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.
 - THE CONTRACTOR SHALL ENGAGE A QUALIFIED INDEPENDENT TESTING AND INSPECTING AGENCY TO PERFORM FIELD TESTS AND INSPECTIONS AND PREPARE TEST REPORTS FOR ALL CONCRETE INSTALLATIONS.
- 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 Z601-2014 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.
- MULCH
 - MULCH SHALL BE TRIPLE SHREDDED HARDWOOD MULCH, AGED A MINIMUM OF SIX (6) MONTHS, FREE FROM DEBRIS, MILDW, DISEASE, PATHOGENS, OR OTHER MATERIAL OTHERWISE DELETERIOUS TO PLANT HEALTH. MULCH SHALL BE PLACED TO A UNIFORM DEPTH, AS INDICATED IN THE DETAILS.

ABBREVIATIONS

APP	-	APPROXIMATE
CO	-	CLEANOUT
COM	-	COMMUNICATIONS
CONC	-	CONCRETE
CMU	-	CONCRETE MASONRY UNIT
CSO	-	COMBINED SEWER OVERFLOW
EL	-	ELEVATION
EX	-	EXISTING
FH	-	FIRE HYDRANT
FL	-	FLOW LINE
HP	-	HIGH POINT
LOD	-	LIMITS OF DISTURBANCE
LT	-	LIGHT
MH	-	MANHOLE
NPS	-	NOMINAL PIPE SIZE
PC	-	POINT OF CURVATURE
PT	-	POINT OF TANGENCY
PED	-	PEDESTRIAN
PR	-	PROPOSED
PROP	-	PROPOSED
ROW	-	RIGHT OF WAY
SAN	-	SANITARY SEWER
STM	-	STORM SEWER
TRAF	-	TRAFFIC
TC	-	TOP OF CURB
TOC	-	TOP OF CURB
TW	-	TOP OF WALL
BW	-	BOTTOM OF WALL
U.N.O.	-	UNLESS NOTED OTHERWISE
WTR	-	WATERLINE
WW	-	WATER VALVE
X-WING	-	CROSSING

CONCEPT DESIGN



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

REVISIONS DESCRIPTION

DATE	BY

ALEXANDRIA PROJECT NO.: 2103007	1
DATE OF PLAN ISSUANCE:	1
CONSULTANT PROJECT ID:	1
DESIGNED BY: JAA-DATE:08/16/21	1
DRAWN BY: JAA-DATE:09/16/21	1
CHECKED BY: DR-DATE:	1
APPROVED BY: ---DATE:	1

LESLIE AVENUE SIDEWALK

GENERAL NOTES

SHEET
02 OF 05
SCALE : NTS



GENERAL EROSION AND SEDIMENT CONTROL NOTES

1. AN EROSION AND SEDIMENT CONTROL PLAN MUST BE APPROVED BY THE DIRECTOR OF TRANSPORTATION AND ENVIRONMENTAL SERVICES PRIOR TO ANY LAND DISTURBING ACTIVITY GREATER THAN 2,500 SQUARE FEET.
2. THE CONTRACTORS MUST KEEP DENIED AREAS TO A MINIMUM. AN EROSION AND SEDIMENT CONTROL PLAN IS INCLUDED WITH THESE FINAL PLANS FOR APPROVAL BY T&ES FOR REFERENCE BY THE EROSION AND SEDIMENT CONTROL PERMIT. ALL EROSION / SEDIMENT CONTROL MEASURES MUST CONFORM TO THE CURRENT STANDARDS OF THE CITY OF ALEXANDRIA AND THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK (VESCH).
3. 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 (VESCH) AND VIRGINIA REGULATIONS 8VAAC60-20 TO EROSION AND SEDIMENT CONTROL REGULATIONS.
4. 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 (CRLD) IS REQUIRED TO ATTEND PRE-CONSTRUCTION MEETING.
5. 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.
6. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
7. PRIOR TO COMMENCING LAND DISTURBING ACTIVITIES IN AREAS OTHER THAN THOSE INDICATED ON THESE PLANS INCLUDING, BUT NOT LIMITED TO, OFF-SITE STORAGE OR WASTE AREAS, THE CONTRACTOR MUST SUBMIT A SUPPLEMENTARY EROSION CONTROL PLAN TO THE OWNER FOR REVIEW AND APPROVAL BY THE CITY OF ALEXANDRIA.
8. ALL DISTURBED AREAS OF THE SITE NOT TO BE WORKED FOR SEVEN OR MORE CALENDAR DAYS MUST BE STABILIZED.
9. ALL TEMPORARY EARTH BERMS, DIVERSIONS AND SEDIMENT CONTROL DAMS MUST BE SEEDED AND MULCHED OR OTHERWISE STABILIZED AS SOON AS POSSIBLE BUT NO LATER THAN 48 HOURS AFTER GRADING.
10. ALL DISTURBED AREAS MUST DRAIN TO APPROVED SEDIMENT CONTROL MEASURES AT ALL TIMES DURING LAND DISTURBING ACTIVITIES AND DURING SITE DEVELOPMENT UNTIL FINAL STABILIZATION IS ACHIEVED.
11. DURING DEWATERING OPERATION, WATER WILL BE PUMPED THROUGH AND APPROVED FILTERING DEVICE.
12. THE CONTRACTOR MUST 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.
13. PERMANENT OR TEMPORARY SOIL STABILIZATION MUST BE APPLIED TO DENIED 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 DENIED 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.
14. 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.
15. 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.
16. ANY DENIED SLOPES, EITHER DISTURBED OR CREATED BY THIS PLAN THAT EXCEED 2500 SQUARE FEET MUST BE SEEDED AND PROTECTED FOR STABILITY AND EROSION CONTROL. AT THE COMPLETION OF THE PROJECT AND PRIOR TO THE RELEASE OF THE BOND ALL DISTURBED AREAS SHALL BE STABILIZED PERMANENTLY AND ALL TEMPORARY EROSION AND SEDIMENT CONTROLS SHALL BE REMOVED.

POLLUTION PREVENTION NOTES

1. 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.
2. ENSURE THE STAGING/STORAGE/APPLICATION/CLEAN-UP OF GAS, CHEMICALS, AND OILS (INCLUDING FORD RELEASE OIL) IS SUCH AS TO PREVENT BEING WASHED DOWN THE INLETS.
3. ENSURE DISCHARGE OF SOAPS, SOLVENTS, DETERGENTS, WASH WATER AND CONSTRUCTION MATERIALS, INCLUDING THE CLEAN-UP OF STUCCO, VEHICLE AND EQUIPMENT WASH WATER, PAINT, FORD RELEASE OILS AND CURING COMPOUNDS (COVER, PLASTIC SHEETING OR TEMPORARY ROOFS) AND PROVIDE COLLECTION AND PROPER DISPOSAL TO PREVENT CONTACT WITH STORMWATER.
4. 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.).
5. 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.
6. CONTRACTOR TO PROVIDE PROPOSED LOCATION OF CONCRETE MIXING TO BE APPROVED BY THE CITY.
7. 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.
8. TO REPORT LEAKS, SPILLS AND OTHER RELEASES, CONTACT:

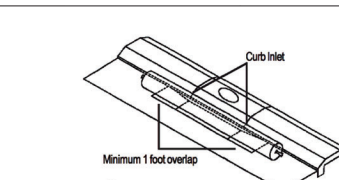
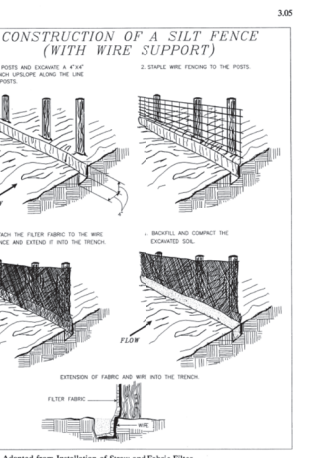
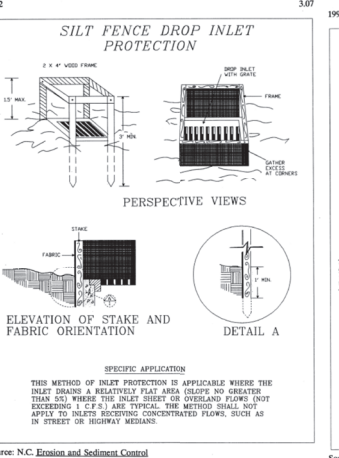
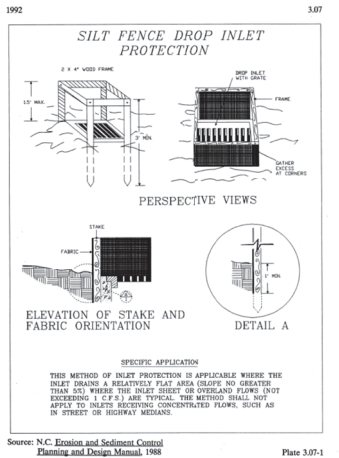
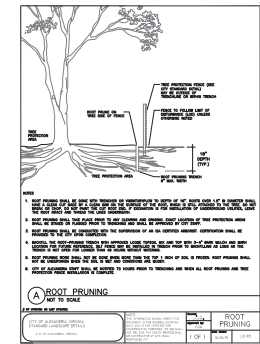
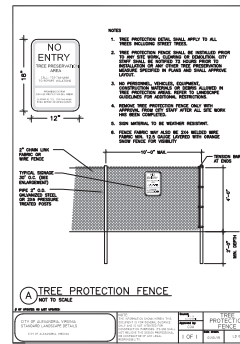
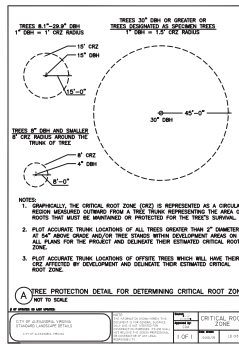
FIRE DEPARTMENT	703-838-4660	FOR HAZARDOUS DISCHARGES
T&ES	703-746-4065	FOR DISCHARGES TO STORM SEWER
DEQ NORTHERN VIRGINIA REGIONAL OFFICE	703-583-3870	FOR PETROLEUM THAT REACHES SURFACE WATER DURING NORMAL HOURS
VIRGINIA DEPARTMENT OF EMERGENCY MANAGEMENT	1-800-468-8892	FOR PETROLEUM THAT REACHES SURFACE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

PRESERVATION OF EXISTING TREES AND VEGETATION

1. VEGETATION TO BE REMOVED MUST BE APPROVED BY THE CITY ARBORIST.
2. PROVIDE, IMPLEMENT AND FOLLOW A TREE CONSERVATION AND PROTECTION PROGRAM THAT IS DEVELOPED AND PROVIDED TO THE SATISFACTION OF THE CITY ARBORIST. TREE PROTECTION ZONE(S) INDICATED ON THE SITE PLAN.
3. PROVIDE PROTECTION OF EXISTING VEGETATION IN COMPLIANCE WITH LANDSCAPE GUIDELINES OF THE CITY OF ALEXANDRIA.
4. LOCATION AND METHOD FOR PROTECTION AND PRESERVATION OF EXISTING TREES MUST BE APPROVED IN-FIELD BY THE CITY ARBORIST OR LANDSCAPE ARCHITECT PRIOR TO COMMENCEMENT OF GROUND DISTURBING ACTIVITY.
5. TREE PROTECTION SHALL BE PROVIDED WHERE SILT FENCE IS NOT ADEQUATE. PROTECTION MUST BE PROVIDED AS CLOSE AS POSSIBLE TO THE DRY LINE OF THE TREES TO BE SAVED OR AS OTHERWISE INDICATED ON THE EROSION AND SEDIMENTATION CONTROL PLAN AND/OR TREE PRESERVATION PLAN. THE CONTRACTOR MUST CONSULT THE SITE INSPECTOR BEFORE THE CONSTRUCTION STARTS. TREE PROTECTION FENCING MUST BE ESTABLISHED AND APPROVED BY THE CITY ARBORIST BEFORE ANY CLEARING OR CONSTRUCTION CAN BE STARTED.
6. PRESERVE AND PROTECT GROUPS OF TREES, PLANTING, OR OTHER FEATURES IDENTIFIED IN THE EXISTING CONDITIONS PLAN AND INDICATED TO REMAIN AND ANY ADJACENT TREES LOCATED OUTSIDE OF THE LIMITS OF DISTURBANCE AND AT RISK OF DAMAGE DUE TO CONSTRUCTION ACTIVITIES.
7. PROTECT TREE(S) TO BE RETAINED (INCLUDING TREES OUTSIDE LIMITS OF DISTURBANCE) USING THE FOLLOWING METHODS:
 - 7.1. FENCE: ERECT TEMPORARY 4 FT HIGH CHAIN LINK FENCE, WITH POSTS 8 FT (MAX) APART AROUND THE SELECTED FEATURES. PLACE FENCE AS INDICATED ON THE TREE PRESERVATION PLANS AND AS DIRECTED BY THE CITY. INCLUDE ONE GATE PER ENCLOSURE. MIN. OTHER FENCING MAY BE USED WITH PRIOR WRITTEN APPROVAL BY THE CITY.
 - 7.2. SIGNS: POST SIGNS IDENTIFYING TREE PROTECTION AREA(S) FOR SELECTED FEATURES ON FENCE A MAXIMUM OF 15 FT APART. PRINT "TREE PROTECTION ZONE - ENTRY PROHIBITED" OR SIMILAR WARNING IN BOTH ENGLISH AND SPANISH ON THE SIGNS.
 - 7.3. NO CONSTRUCTION ACTIVITIES, INCLUDING UTILITY TRENCHING OR MATERIAL STORAGE, MUST BE ALLOWED IN THE TREE PRESERVATION AREA(S). ALSO PROHIBITED ARE ANY STORED OR PARKED VEHICLES, OR OTHER USES THAT WILL COMPACT THE GROUND AND/OR OTHERWISE DAMAGE ROOTS. THE CONTRACTOR SHALL ERECT TREE PROTECTION FENCING.

PROTECTION FENCES, MAINTAIN TREES DURING CONSTRUCTION, POLICE THE TREE PROTECTION AREAS, REMOVE FENCES AT CONCLUSION OF CONTRACT AND LANDSCAPE OR OTHERWISE REPAIR THE PROTECTED AREA AS PER LANDSCAPE PLANTING PLANS (OR EXISTING CONDITIONS, AS DIRECTED).

- 7.4. ANY PLANTS LOCATED WITHIN THE TREE PRESERVATION AREA(S) THAT ARE DAMAGED, REMOVED OR ALTERED IN ANY WAY SHALL BE REPLACED WITH THREE TREES OF SIMILAR SPECIES AND SIZE AT THE DIRECTION OF THE CITY PER THE CITY OF ALEXANDRIA LANDSCAPE STANDARDS.
- 7.5. SHALLOW ROOTS:
 - 7.5.1. CONTRACTOR MUST NOTIFY THE CITY OF ANY SHALLOW ROOTS WHICH SHALL BE IMPACTED OR OTHERWISE REMOVED DURING CONSTRUCTION. CONTRACTOR MUST PROTECT AND PRESERVE ROOTS, AS DIRECTED BY THE CITY.
 - 7.5.2. WHERE ROOT REMOVAL IS REQUIRED AND APPROVED BY THE CITY, OR WHERE DAMAGE TO UNDOCUMENTED ROOTS OCCUR, ROOT PRUNING MUST BE REQUIRED IN ACCORDANCE WITH THE FOLLOWING:
 - 7.5.2.1. AS DIRECTED, MAKE A VERTICAL CUT WITHIN TWO (2) FEET OF THE LIMIT OF GRADING USING A ROCK SAW, CHAIN TRENCHER, OR SIMILAR TRENCHING DEVICE.
 - 7.5.2.2. AFTER COMPLETION OF THE CUT, MAKE CLEAN CUTS WITH A LOPPER, SAW, OR PRUNER TO REMOVE ALL TOP ENDS ON THE TREE SIDE OF THE EXCAVATION AND BACKFILL TRENCH IMMEDIATELY WITH EXISTING SOIL, FILLING ALL VOIDS.
 - 7.5.2.3. REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REFERENCE STANDARDS.
8. CONTRACTOR MUST PROVIDE DOCUMENTATION OF COMMUNICATION WITH THE ADJACENT PROPERTY OWNER(S) VERIFYING NOTIFICATION OF CONSTRUCTION IMPACT, POTENTIAL FOR LOSS, AND AGREED UPON REMEDIAL MEASURES PERTAINING TO THE EXISTING TREE(S) ON ADJACENT PROPERTIES THAT WILL BE EFFECTED BY PROJECT WORK.



CONCEPT DESIGN



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

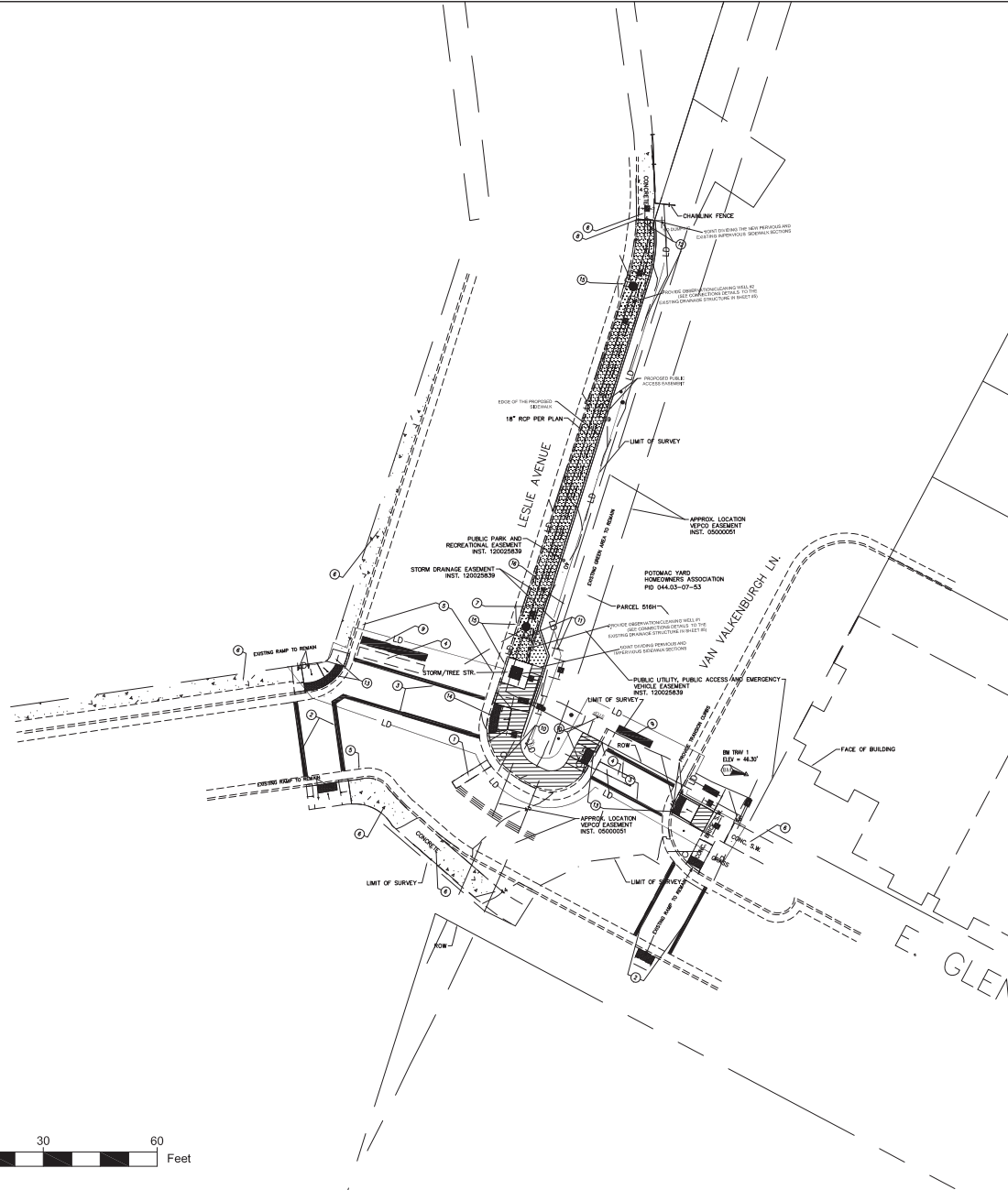
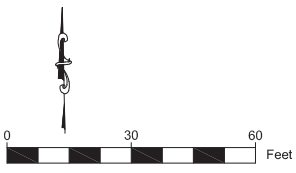
REVISIONS	DESCRIPTION
DATE	
BY	

ALEXANDRIA PROJECT NO.:	2103007
DATE OF PLAN ISSUANCE:	11/15/2021
CONSULTANT PROJECT ID:	2103007
DESIGNED BY:	JAL DATE: 09/16/21
DRAWN BY:	DK DATE: 09/16/21
CHECKED BY:	---
APPROVED BY:	---

LESLIE AVENUE SIDEWALK

EROSION & SEDIMENT CONTROL

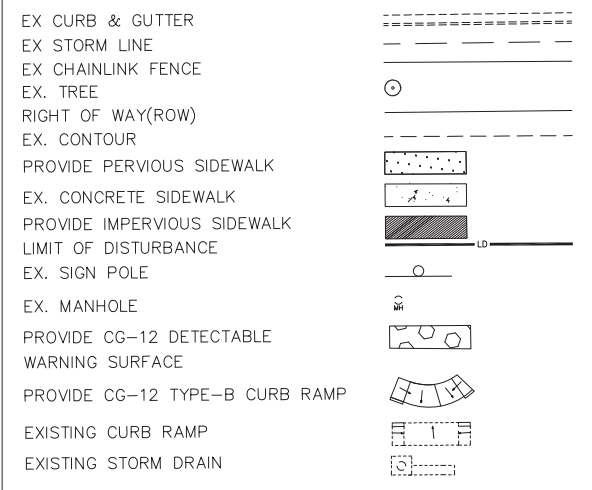
SHEET
03 of 05
SCALE : NTS



KEYS

- ① EXISTING STOP LINE TO REMAIN
- ② EXISTING CROSSWALK TO REMAIN
- ③ PROVIDE CROSSWALK
- ④ REMOVE EXISTING STOP LINE
- ⑤ EXISTING GUTTER TO REMAIN
- ⑥ EXISTING CONCRETE SIDEWALK TO REMAIN
- ⑦ PROVIDE PERVIOUS/POROUS SIDEWALK (TOTAL AREA =1009 SQFT)
- ⑧ PROVIDE POROUS SIDEWALK TAPERED & TIE IN TO EXISTING SIDEWALK
- ⑨ PROVIDE STOP LINE
- ⑩ REMOVE & REPLACE STOP SIGN
- ⑪ REMOVE & REPLACE PARKING SIGN
- ⑫ REMOVE & REPLACE NO DUMPING SIGN
- ⑬ CG-12 TYPE B IMPROVEMENT PER VDOT STANDARDS FOR CURB RAMPS
- ⑭ CG-12 TYPE A IMPROVEMENT PER VDOT STANDARDS FOR CURB RAMPS
- ⑮ EXISTING STORM DRAIN TO REMAIN
- ⑯ 8" PERFORATED PIPE TO BE CONNECTED TO EXISTING MANHOLES

LEGEND



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CALL BEFORE YOU DIG.
DIAL 811 IN VIRGINIA OR
1-800-552-7001

CONCEPT DESIGN

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

REVISIONS	DATE	DESCRIPTION

ALEXANDRIA PROJECT NO.: 2103007
DATE OF PLAN ISSUANCE: 08/16/21
CONSULTANT PROJECT ID: 08/16/21
DESIGNED BY: JAL DATE: 08/16/21
DRAWN BY: JAL DATE: 08/16/21
CHECKED BY: DR DATE: 08/16/21
APPROVED BY: DR DATE: 08/16/21

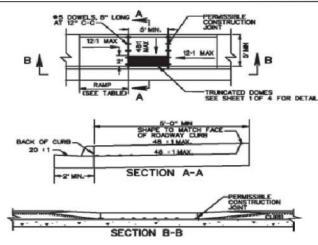
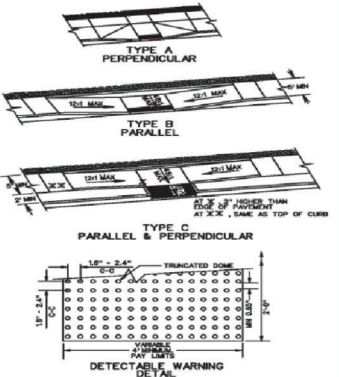
LESLIE AVENUE SIDEWALK

SITE PLAN

SHEET
04 of 05
SCALE: 1" = 30'

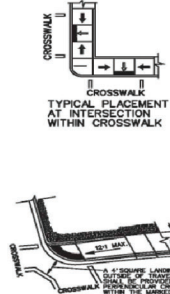
GENERAL NOTES:

1. THE DETECTABLE WARNING SHALL BE PROVIDED BY TRUNCATED DOMES.
2. DETECTABLE WARNING FOR CURBS SHALL BE PROVIDED TO THE FULL PERFORATED PIPE FLOOR OF PERFORATED UNDERDRAIN. THE DETECTION OF TRUNCATED WARNING MAY BE USED WITH THE APPROVAL OF THE ENGINEER.
3. FLOOR FINISH OF CURB RAMP SHALL BE PROVIDED IN ACCORDANCE WITH THE DETECTABLE WARNING.
4. TRUNCATED DOMES OF PERFORATED UNDERDRAIN SHALL BE PROVIDED WITH PERFORATED UNDERDRAIN. PERFORATED UNDERDRAIN SHALL BE LOCATED AT 2' O.C. ALONG CURB RAMP AND AT 4' O.C. ALONG CURB.
5. DETECTABLE WARNING SHALL BE PROVIDED TO THE FULL PERFORATED PIPE FLOOR OF PERFORATED UNDERDRAIN. THE DETECTION OF TRUNCATED WARNING MAY BE USED WITH THE APPROVAL OF THE ENGINEER.
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9. TRUNCATED DOMES SHALL BE PROVIDED TO THE FULL PERFORATED PIPE FLOOR OF PERFORATED UNDERDRAIN. THE DETECTION OF TRUNCATED WARNING MAY BE USED WITH THE APPROVAL OF THE ENGINEER.
10. WHEN CURB RAMP IS USED IN CONNECTION WITH A SHOULDER USE PATH, THE MINIMUM WIDTH SHALL BE THE WIDTH OF THE SHOULDER USE PATH.



TYPE B PARALLEL APPLICATION

ROADWAY GRADE IN PERCENT	MINIMUM RAMP LENGTH IN FEET	MINIMUM RAMP LENGTH IN FEET
0	2	4
1	3	5
2	3	6
3	4	7
4	4	8
5	5	9
6	5	10
7	6	11
8	6	12
9	7	13
10	7	14



2016 ROAD & BRIDGE STANDARDS

UD-3

NOTES:

1. WHEN THE LONGITUDINAL PIPE CONNECTS DIRECTLY INTO A PERMANENT STRUCTURE UNDER PERMISSIBLE CONSTRUCTION, THE DETECTABLE WARNING SHALL BE PROVIDED TO THE FULL PERFORATED PIPE FLOOR OF PERFORATED UNDERDRAIN.
2. DETECTABLE WARNING SHALL BE PROVIDED TO THE FULL PERFORATED PIPE FLOOR OF PERFORATED UNDERDRAIN. THE DETECTION OF TRUNCATED WARNING MAY BE USED WITH THE APPROVAL OF THE ENGINEER.
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LONGITUDINAL PERFORATED PIPE

TYPE OF PIPE	CORROSION RESISTANCE	MIN. & MAX. NOMINAL DIAMETER
SMOOTH WALL PVC	CLASS 250	4" TO 24" N.P.S.
SMOOTH WALL DUCTILE IRON	CLASS 150	4" TO 24" N.P.S.

NON-PERFORATED PIPE FOR USE UNDER OUTLETS

TYPE OF PIPE	CORROSION RESISTANCE	MIN. & MAX. NOMINAL DIAMETER
SMOOTH WALL PVC	CLASS 250	4" TO 24" N.P.S.
SMOOTH WALL DUCTILE IRON	CLASS 150	4" TO 24" N.P.S.

STANDARD SIDEWALK UNDERDRAIN

2016 ROAD & BRIDGE STANDARDS

CITY OF ALEXANDRIA, VIRGINIA

DEPARTMENT OF PROJECT IMPLEMENTATION

301 KING STREET

ALEXANDRIA, VIRGINIA 22313

REVISIONS

NO.	DATE	DESCRIPTION
1		
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CG-12 DETECTABLE WARNING SURFACE

TYPE B (PARALLEL) APPLICATION

REV. 7/09

TYPICAL DESIGN

ALTERATIONS

TYPICAL PLACEMENT AT INTERSECTION WITHIN CROSSWALK WITH BUFFER STRIP

NOTES:

1. THIS DESIGN IS TO BE USED FOR CONSTRUCTION THAT INCORPORATES WIDER SIDEWALK LANDING (4'-0" WIDE) REQUIRED AT TOP OF CURB RAMP. MINIMUM CURB RAMP LENGTH IS 8 FEET FOR NEW CONSTRUCTION, 6 FEET FOR ALTERATIONS.

CG-12 DETECTABLE WARNING SURFACE

TYPE C (PARALLEL & PERPENDICULAR) APPLICATION

REV. 7/09

TYPICAL DESIGN

ALTERATIONS

TYPICAL PLACEMENT AT INTERSECTION WITHIN CROSSWALK WITH BUFFER STRIP

NOTES:

1. THIS DESIGN IS TO BE USED FOR CONSTRUCTION THAT INCORPORATES WIDER SIDEWALK LANDING (4'-0" WIDE) REQUIRED AT TOP OF CURB RAMP. MINIMUM CURB RAMP LENGTH IS 8 FEET FOR NEW CONSTRUCTION, 6 FEET FOR ALTERATIONS.

CG-12 DETECTABLE WARNING SURFACE

TYPE A (PERPENDICULAR) APPLICATION

VIRGINIA DEPARTMENT OF TRANSPORTATION

REV. 7/09

5-2 PERVIOUS CONCRETE SIDEWALK SECTION

NOTES:

1. PERVIOUS CONCRETE SHALL BE PROVIDED TO THE FULL PERFORATED PIPE FLOOR OF PERFORATED UNDERDRAIN. THE DETECTION OF TRUNCATED WARNING MAY BE USED WITH THE APPROVAL OF THE ENGINEER.
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10. WHEN CURB RAMP IS USED IN CONNECTION WITH A SHOULDER USE PATH, THE MINIMUM WIDTH SHALL BE THE WIDTH OF THE SHOULDER USE PATH.

CG-12 DETECTABLE WARNING SURFACE

TYPE C (PARALLEL & PERPENDICULAR) APPLICATION

VIRGINIA DEPARTMENT OF TRANSPORTATION

REV. 7/09

TYPICAL PERVIOUS CONCRETE PROFILE

NOTES:

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DESIGN NOTES:

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DETAILS

SHEET 05 OF 05

SCALE : NTS