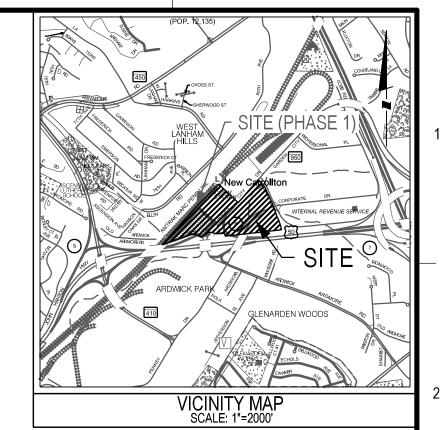
NEW CARROLLTON



NARRATIVE

I. EXISTING SITE

THE EXISTING SITE CONSISTS OF 8 LOTS CONTAINING PARKING LOTS, KISS AND RIDE AREA, BUS LOOP AND OFFICE BUILDINGS. THE SITE IS CURRENTLY ZONED MIXED USES (M-X-T). THE SITE DOES NOT LIE WITHIN TIER II WATERSHED; HOWEVER, THE SITE LIES WITHIN TMDL WATERSHED. THE SITE CONTAINS 100% D SOILS. THE EXISTING IMPERVIOUS AREA IS EQUAL TO 13.89 ACRES. (DNR 12 DIGIT NUMBER: 021402050816). THE SITE CONTAINS 3 ROADWAY CULVERTS THAT CONVEY THE STREAM THROUGH THE EXISTING ROADS. THERE ARE NO UPSTREAM DAMS THAT WOULD IMPACT THE SITE IF THE DAM WERE TO BREACH. PUBLIC UTILITIES ARE AVAILABLE AROUND THE SITE. WATER SERVICES ARE PROVIDED BY WSSC AND INCLUDE AND EXISTING 12" WATERLINE GOES ALONG GARDEN CITY DRIVE. THE ELECTRICAL SERVICES ARE PROVIDED BY PEPCO.

II. PROPOSED SITE

THE PROPOSED PROJECT IS TO REDEVELOP THE EXISTING SITE INTO MIXED USE OFFICE, RETAIL AND MULTIFAMILY RESIDENTIAL DURING 5 PHASES (SWM LOD). THE PROPOSED SITE HAS A DISTURBED AREA OF 26.30 ACRES. THE PROPOSED DEVELOPMENT WILL INCREASE IMPERVIOUS AREA IS TO 15.25 ACRES. THIS SITE IS QUALIFIED FOR REDEVELOPMENT SINCE 52.9% OF THE EXISTING SITE IS IMPERVIOUS. THE PROPOSED WORK WILL INCREASE THE EXISTING IMPERVIOUS AREA BY ABOUT 1.36 ACRES. PHASES 1 AND 2 ARE PLANNED DEVELOPMENT WITH TOTAL DISTURBED AREA OF 15.41 ACRES. PHASES 3, 4, AND 5 ARE TRUE FUTURE DEVELOPMENTS.

III. DESIGN CONSIDERATIONS

THE TARGET ENVIRONMENTAL SITE DESIGN VOLUME (ESD_V) WILL BE CALCULATED BASED UPON THE DIFFERENCE FROM THE EXISTING IMPERVIOUS AREA TO THE SITE PROPOSED IMPERVIOUS AREA. THIS AREA WILL BE CONSIDERED THE "STORM WATER MANAGEMENT LIMIT OF DISTURBANCE (SWM LOD)". THE PROPOSED PROJECT HAS BEEN DIVIDED INTO "5" SWM LOD AREAS.

SWM LOD AREA	AREA (AC)	EX. IMP AREA (AC)	PR. IMP AREA (AC)
AREA 1	7.47	4.24	4.85
AREA 2	7.94	6.13	5.63
AREA 3	4.35	3.39	2.00
AREA 4	1.89	0.10	0.49
AREA 5	5.10	0.03	2.28
TOTAL	26.75	13.89	15.25

IV GRADING, EROSION AND SEDIMENT CONTROL

EROSION & SEDIMENT CONTROLS FOR THIS SITE WILL ADHERE TO THE 2013 PGSCD'S "SOIL EROSION & SEDIMENT CONTROL-POND SAFETY REFERENCE MANUAL". THE SITE WILL BE DIVIDED INTO FIVE CONSTRUCTION PHASES. THE SITE HAVE A DISTURBED AREA OF APPROXIMATELY 26.30 ACRES. SITE ACCESS FOR CONSTRUCTION WILL OCCUR WITHIN THE EXISTING GARDEN CITY DRIVE. EACH SWM LOD AREA IS LESS THAN 20 ACRES WITH PHASES 1 AND 2 TOTALING TO 15.41 ACRES.

THE FINAL IMPERVIOUS AREA WITHIN THE LOD IS EQUAL TO 15.25 ACRES. THE REDEVELOPMENT CRITERIA WILL REQUIRE THE SITE TO TREAT OR REMOVE 75% OF THE EXISTING SITE IMPERVIOUS AREA WITHIN THE LOD WHICH IS EQUAL TO 10.42 ACRES. TREATMENT WILL OCCUR BY MEANS OF IMPLEMENTING MICRO-SCALE PRACTICES TO TREAT RUNOFF FROM IMPERVIOUS AREAS. MULTIPLE ESD SUCH AS MICRO-BIORETENTIONS, BIO-SWALE, GREEN ROOF AND UNDERGROUND INFILTRATION UNITS WILL BE

THE FINAL IMPERVIOUS AREA FOR PHASES 1 AND 2 IS 10.48 ACRES. TREATMENT OF THE IMPERVIOUS AREA WITHIN THE PHASE 1 AND 2 SWM LOD WILL BE PROVIDED BY MEANS OF IMPLEMENTING GREEN ROOF, SUBMERGED GRAVEL WETLAND, TWO MICRO-BIORETENTIONS AND TWO UNDERGROUND INFILTRATION UNITS. SILT FENCES WILL BE PLACED AROUND MICRO-BIORETENTIONS TO PREVENT CONSTRUCTION VEHICLES FROM ENTERING ESD AREAS. THE SITE WILL COMPLY WITH THE 3/7 DAY STABILIZATION

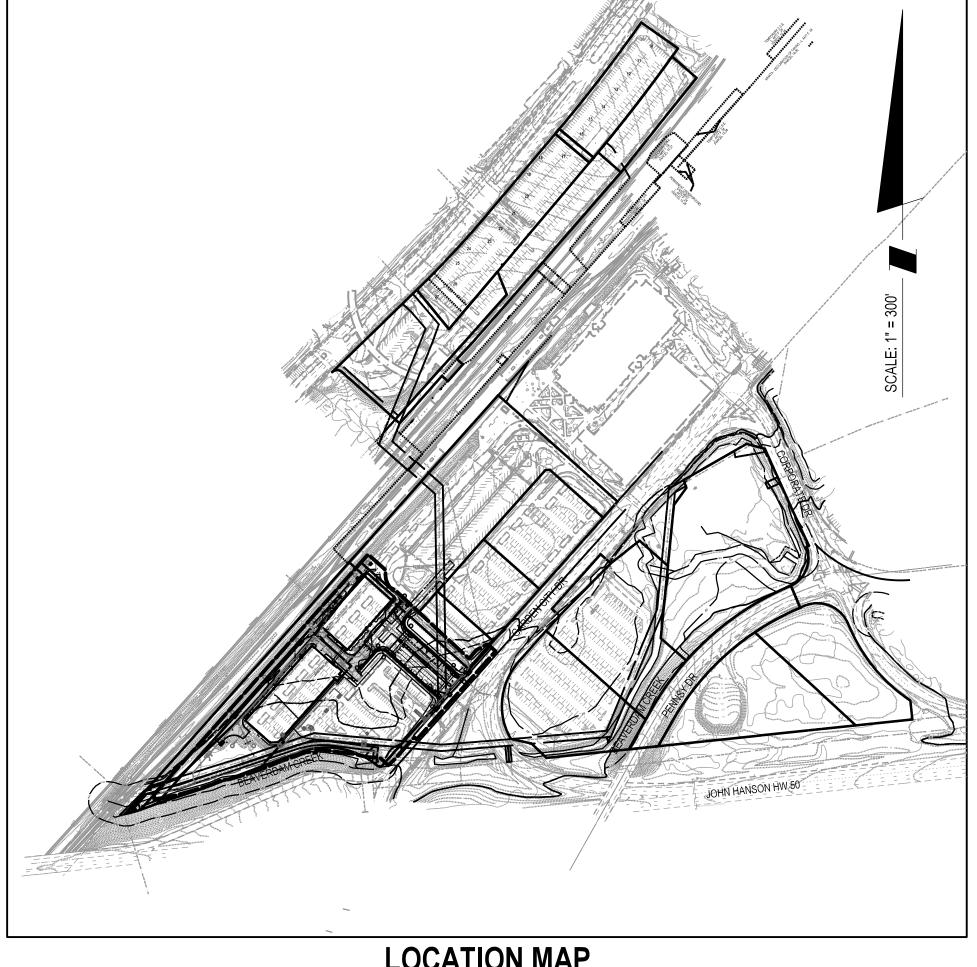
DUE TO BEAVERDAM CREEK CROSSING THROUGH THE SITE, STEEP SLOPES OF GREATER THAN 15% ARE PRESENT ALONG BEAVERDAM CREEK. THERE ARE NO HIGHLY ERODIBLE SOILS (HES) PRESENT IN THE SITE. SUPER SILT FENCES WILL BE USED AS PERIMETER CONTROL DEVICE. THE SUPER SILT FENCE WILL PROTECT WATER QUALITY OF THE STREAM AND PREVENT CONSTRUCTION VEHICLES FROM ENTERING STREAM. THE RUNOFF THROUGH SILT FENCE TO STORM DRAINS WILL BE PROTECTED THROUGH INLET PROTECTION. THE SITE LIES WITHIN THE 100 YEAR FLOODPLAIN. THE FLOODPLAIN STUDY WILL BE EVALUATED BY THE PRINCE GEORGE'S COUNTY DPIE. THE SITE CONTAINS WETLANDS BUT PHASES 1 AND 2 HAVE NO IMPACT ON WETLANDS. WETLAND IMPACT WILL BE DETERMINED ON FUTURE PHASES.

EROSION & SEDIMENT CONTROL PRACTICES PER PGSCD STANDARDS WILL BE IMPLEMENTED ONSITE IN ORDER TO MINIMIZE

- IMPACT TO EXISTING WATERWAYS. THE FOLLOWING TECHNIQUES HAVE BEEN UTILIZED FOR THIS PURPOSE: a. SILT FENCE AND SUPER SILT FENCE TO BE ESTABLISHED AS PERIMETER CONTROL b. INLET PROTECTION TO PROTECT EXISTING AND PROPOSED INLETS FROM SEDIMENT
- c. PIPE SLOPE OUTFALLS AS A MEANS OF DIRECTING RUNOFF FLOW d. PROVIDING 3 DAY SEDIMENT CONTROL FOR ALL SLOPES STEEPER THAN 3:1
- e. PROVIDING 7 DAY SEDIMENT CONTROL FOR ALL OTHER DISTURBED OR GRADED AREAS

THE SITE DOES NOT LIE WITHIN TIER II WATERSHED AND CHESAPEAKE BAY CRITICAL AREA. THE SITE LIES WITHIN TMDL WATERSHED WITH TOTAL SUSPENDED SOLID (TSS) IMPAIRMENT.

BASED ON THE AFOREMENTIONED METHODS WE PROPOSE THAT WE HAVE PROVIDED FULL INTEGRATION OF EROSION AND SEDIMENT CONTROL WITH THE COUNTY'S ESD TO THE MEP.



LOCATION MAP

INDEX OF SHEETS

INDEX OF SHEETS	
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GENERAL NOTES AND LEGEND	2
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DETAILS	16

DEED REFERENCE OR RECORD PLAT NO.: L:XXXXX F:XXXXX

MDE NOI PERMIT #: REFERENCE #XXXXXXXXX **ISSUE DATE: EXPIRATION DATE:** XX/XX/2020

SITE GRADING UNITS

PHASE X GRADING UNIT: 26.75 ACRES

MARKED (FLAGGING OR PAINTING) IN THE FIELD PRIOR TO ANY LAND DISTURBING

DRAINAGE CERTIFICATION

I HEREBY CERTIFY THAT THIS PLAN CONFORMS TO THE REQUIREMENTS OF SUBTITLE 32, DIVISION 2 OF THE GRADING ORDINANCE OF PRINCE GEORGE'S COUNTY, MARYLAND: AND THAT I OR MY STAFF HAVE INSPECTED THIS SITE AND THAT DRAINAGE FLOWS FROM UPHILL PROPERTIES ONTO THIS SITE, AND FROM THIS SITE ONTO OTHER DOWNGRADE PROPERTIES, HAVE BEEN ADDRESSED IN SUBSTANTIAL ACCORDANCE WITH APPLICABLE

UTILITY CERTIFICATION

I HEREBY CERTIFY. TO THE BEST OF MY PROFESSIONAL KNOWLEDGE, INFORMATION, AND BELIEF, THAT THE EXISTING AND/OR PROPOSED UNDERGROUND UTILITY INFORMATION SHOWN HEREON HAS BEEN CORRECTLY DUPLICATED FROM UTILITY COMPANY RECORDS. FURTHER, THAT THIS PROJECT HAS BEEN CAREFULLY COORDINATED WITH EACH INVOLVED UTILITY COMPANY AND ALL AVAILABLE UNDERGROUND UTILITY INFORMATION RELATIVE TO THIS PLAN HAS BEEN SOLICITED FROM THEM.

JASON R MILLS MD. REG. P.E. NO. 40836

OWNER'S/DEVELOPER'S CERTIFICATION

"I/WE HEREBY CERTIFY THAT I/WE HAVE REVIEWED THIS EROSION AND SEDIMENT CONTROL PLAN AND THAT ANY CLEARING, GRADING, DRAINAGE, CONSTRUCTION AND/OR DEVELOPMENT WILL BE DONE PURSUANT TO THIS APPROVED PLAN, INCLUDING INSPECTING AND MAINTAINING CONTROLS AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF TRAINING AT A MARLAND DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF EROSION AND SEDIMENT BEFORE BEGINNING THE PROJECT. PRINCE GEORGE'S SOIL CONSERVATION DISTRICT AND THE ENFORCEMENT AUTHORITY SHALL HAVE THE RIGHT OF ENTRY FOR PERIODIC ON-SITE EVALUATIONS."

TITLE <u>DEVELOPMENT</u> PARTNER NAME (PRINTED) ALAN LEDERMAN _ FIRM URBAN ATLANTIC PH# 301-370-0968 COMPLETE ADDRESS 7735 OLD GEORGETOWN RD, SUITE 600, BETHESDA, MD 20814

CONSULTANT'S CERTIFICATION

"I CERTIFY THAT THIS PLAN OF EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICABLE AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE, AND THAT THIS PLAN WAS DESIGNED AND PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE PRINCE GEORGE'S SOIL CONSERVATION DISTRICT AND "STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL". I HAVE REVIEWED THIS EROSION AND SEDIMENT CONTROL PLAN WITH THE OWNER/DEVELOPER".

___MD. LICENSE#<u>40836</u>___DATE_____ (PRINTED) JASON R. MILLS

FINAL APPROVAL GRADING, EROSION AND SEDIMENT CONTROL			
FSC# XXX-XX		EXPIRATION DA	
POND (P#)			
DISTRICT SIGNATURE		APPROVAL DA	
REVISION #.:			
UPDATE #.:			
	POND (P#) DISTRICT SIGNATURE REVISION #.:	POND (P#) DISTRICT SIGNATURE REVISION #.:	

DPIE "G" PERMIT NO.:

PRINCE GEORGE'S SOIL CONSERVATION DISTRICT

THIS PLAN IS FOR MAINTENANCE AND **CONSTRUCTION OF SEDIMENT AND EROSION CONTROL MEASURES ONLY**

PROFESSIONAL CERTIFICATION HEREBY CERTIFY THAT THESE DOCUMENTS WERE EPARED OR APPROVED BY ME, AND THAT I AM A DUL CENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 40836 , EXPIRATION DATE: 06/27/20

IT IS THE APPLICANT'S RESPONSABILITY TO OBTAIN AN STATE PERMITS, IF REQUIRED, FOR ANY CONSTRUCTION ACTIVITY COVERED BY THIS PLAN WHICH IMPACTS A STATE REGULATED WETLAND, ANY CHANGES TO PLANS FOR THIS DEVELOPMENT, WHETHER REQUIRED BY THE

STATE OR INITIATED BY THE APPLICANT TO MEET STATI

REQUIRMENTS, MUST BE APPROVED BY PGSCD.

WETLAND NOTE

ROUGH GRADING & FINE GRADING SITE DEVELOPMENT GRADING, EROSION, AND SEDIMENT CONTROL PLAN

COVER SHEET

PROJECT NO.

1" = ____30'

1958-00-00

SOLTESZ, LLC

Engineering Surveying Planning

4300 Forbes Boulevard, Suite 230 Lanham, MD 20706 P. 301.794.7555 F. 301.794.7656 CAD STANDARDS VERSION:

CHECKED: JRM

TECHNICIAN: ZR

INFORMATION CONCERNING EXISTING UNDERGROUND UTILITIE WAS OBTAINED FROM AVAILABLE RECORDS. THE CONTRACTOR MUST DETERMINE THE EXACT LOCATION AND ELEVATION OF A EXISTING UTILITIES AND UTILITY CROSSINGS BY DIGGING TEST PITS BY HAND, WELL IN ADVANCE OF THE START OF EXCAVA CONTACT "MISS UTILITY" AT 1-800-257-7777, 48 HOURS PRIOR T THE START OF EXCAVATION. IF CLEARANCES ARE LESS THAN SHOWN ON THIS PLAN OR TWELVE (12) INCHES. WHICHEVER I LESS CONTACT THE ENGINEER AND THE UTILITY COMPANY BEFORE PROCEEDING WITH CONSTRUCTION. CLEARANCES LESS THAN NOTED MAY REQUIRE REVISIONS TO THIS PLAN.

MISS UTILITY NOTE

WASHINGTON METRO AREA TRANSIT AUTHORITY 6TH AND D ST NW WASHINGTON, DC 20004 NEW CARROLLTON DEVELOPER LLC 735 OLD GEORGETOWN ROAD, SUITE 600 BETHESDA, MD 20817 CONTACT: ALAN LEDERMAN PHONE: (301) 370 - 0968

AP **5411** GRID 206 NE 07 SITE DATUM HORIZONTAL: WMATA



NEW CARROLLTON

LANHAM (20th) ELECTION DISTRICT, PRINCE GEORGE'S COUNTY, MARYLAND