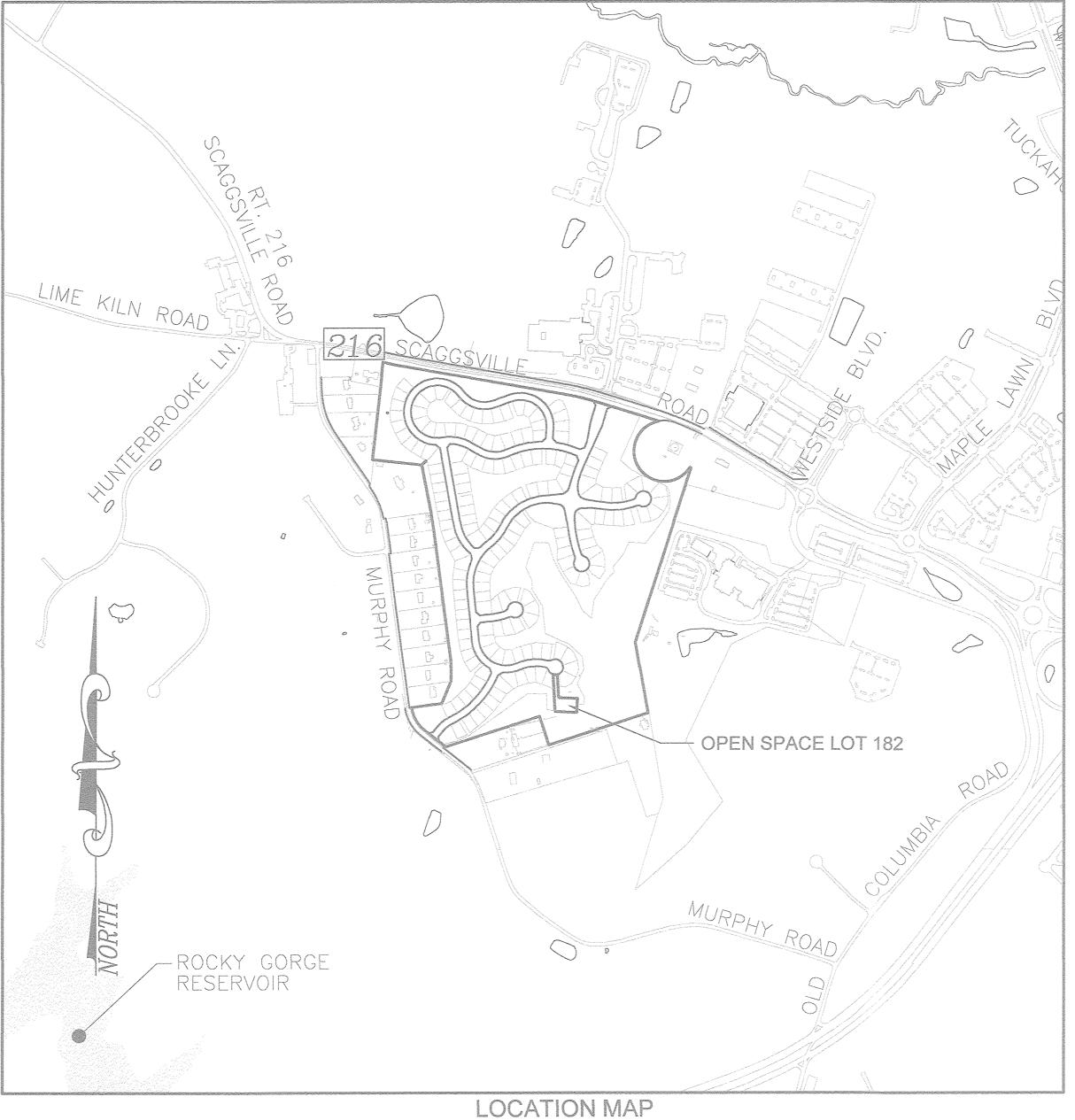
generation des			
	GENERAL NOTES		
1	ALL ASPECTS OF THE PROJECT ARE IN CONFORMANCE WI STANDARDS AND SPECIFICATIONS IF APPLICABLE UNLESS \		
2		1-800-257-7777 1-410-954-6281	
	HOWARD COUNTY BUREAU OF UTILITIES: AT&T CABLE LOCATION DIVISION: B.G.&E. CO. CONTRACTOR SERVICES:	410-313-2366 1-800-393-3553 410-850-4620 410-787-4620	
7	STATE HIGHWAY ADMINISTRATION: THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800	410-531-5533	
	EXCAVATION WORK. THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PU	BLIC WORKS/BUREAU OF ENGINEERING/CONSTRUCTION	
	INSPECTION DIVISION AT (410) 313–1880 AT LEAST FIVE IN ADDITION, THE CONTRACTOR OR DEVELOPER SHALL CO HOUR IN ADVANCE OF COMMENCEMENT OF WORK AT (410	NTACT THE CONSTRUCTION INSPECTION DIVISION 24	
5	EXISTING UTILITIES LOCATED FROM ROAD CONSTRUCTION F EXTENSION PLANS AND AVAILABLE RECORD DRAWINGS. API FOR THE CONTRACTORS INFORMATION. CONTRACTOR SHALL	PROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN	
	CONSTRUCTION ACTIVITIES AND TAKE ALL NECESSARY PREMAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.		
	ANY DAMAGE TO PUBLIC RIGHT-OF-WAY, PAVING, OR EXIS CONTRACTOR'S EXPENSE.		
7	THE SUBJECT PROPERTY IS ZONED R-ED-MXD-3 IN ACC IS SUBJECT TO THE SUBDIVISION AND LAND DEVELOPMEN 75-2003.		
8	THIS PROJECT IS SUBJECT TO COMPLIANCE WITH THE AM DEVELOPMENT REGULATIONS. DEVELOPMENT OR CONSTRUCT AND BUFFER REGULATIONS IN EFFECT AT THE TIME OF SU PETITION APPLICATION OR BUILDING / GRADING PERMIT AN	TION ON THIS PROPERTY MUST COMPLY WITH SETBACK UBMISSION OF THE SITE DEVELOPMENT PLAN, WAIVER	
	THE PROJECT BOUNDARY IS BASED ON A BOUNDARY SUR DATED APRIL 30, 2014. . THE EXISTING ONSITE TOPOGRAPHY SHOWN HEREON IS BA	VEY PREPARED BY ROBERT H. VOGEL ENGINEERING, INC.,	
	PLAN SUBMISSION. AREAS OUTSIDE OF THE F-16-072 I SURVEY PREPARED BY POTOMAC AERIAL SURVEYS, DATED	LIMITS OF DISTURBANCE AREA BASED UPON A TOPOGRAPHI FEBRUARY 26, 2014.	IC
	. THE OFFICIAL PRE-SUBMISSION COMMUNITY MEETING FOR JUNE 5, 2014 AT NORTH LAUREL COMMUNITY CENTER. SOIL TYPES SHOWN HEREON ARE IN ACCORDANCE WITH T		
1	CLARKSVILLE SE MAP #23. . THE COORDINATES SHOWN HEREON ARE BASED UPON THE UPON THE MARYLAND STATE PLANE COORDINATE SYSTEM.		
	WERE USED FOR THIS PROJECT. AN ENVIRONMENTAL CONCEPT PLAN (ECP-14-093) WAS A A PRELIMINARY EQUIVALENT SKETCH PLAN (SP-15-014)		
1	<ul> <li>ALL DRIVEWAY ENTRANCES SHALL UTILIZE HOWARD COUNT</li> <li>DRIVEWAY(S) SHALL BE PROVIDED PRIOR TO RESIDENTIAL EMERGENCY VEHICLES PER THEFOLLOWING MINIMUM REQU</li> </ul>	Y STANDARD DETAIL NO. R-6.06. OCCUPANCY TO ENSURE SAFE ACCESS FOR FIRE AND	
	A) WIDTH— 12 FEET (16 FEET SERVING MORE THAN B) SURFACE — 6 INCHES OF COMPACTED CRUSHER	I ONE RESIDENCE). RUN BASE WITH TAR AND CLIP COATING.	
	<ul> <li>C) GEOMETRY – MAXIMUM 15% GRADE, MAXIMUM 10 TURNING RADIUS.</li> <li>D) STRUCTURES (CULVERT/BRIDGES) – CAPABLE OF</li> </ul>		
	<ul> <li>E) DRAINAGE ELEMENTS-CAPABLE OF SAFELY PASSII DEPTH OVER DRIVEWAY SURFACE.</li> <li>F) STRUCTURE CLEARANCES-MINIMUM 12 FEET.</li> </ul>	NG 100-YEAR FLOOD WITH NO MORE THAN 1 FOOT	
1	G) MAINTENANCE – SUFFICIENT TO ENSURE ALL WE THIS PROPERTY WAS INCORPORATED INTO THE METROPOLI COUNCIL ON MAY 2, 2016 AND SHALL BECOME EFFECTIVE	TAN DISTRICT BY CB-19-2016 BY THE COUNTY	
	THE WATER AND SEWER MASTER PLAN WAS PASSED BY A ON MAY 2, 2016 AND BECOME EFFECTIVE ON MAY 5, 20	COUNTY COUNCIL RESLOUTION (CR-36-2016)	
	-THE PROJECT FORCEMAIN, GRAVITY SEWER AND WATER F SHALL BE CONSTRUCTED AS PART OF CONTRACT CONTRAC		
1	-PUMPING STATION SHALL BE CONSTRUCTED UNDER CON . SOIL COMPACTION SPECIFICATIONS, REQUIREMENTS, METHO		
	HOWARD COUNTY SPECIFICATIONS AND WITH THE RECOMMI GEOTECHNICAL ENGINEER TO CONFIRM ACCEPTABILITY OF PRIOR TO CONSTRUCTION.	ENDATIONS OF THE PROJECT GEOTECHNICAL ENGINEER.	
2	<ul> <li>PRIOR TO CONSTRUCTION.</li> <li>TO THE BEST OF THE OWNERS KNOWLEDGE, THERE ARE I PROPERTY.</li> <li>THIS SITE IS NOT LOCATED IN A HISTORIC DISTRICT,</li> </ul>	NO BURIAL GROUNDS OR CEMETERIES LOCATED ON THIS	
	<ul> <li>NO STEEP SLOPES OVER 20,000 SF CONTIGUOUS ARE LC</li> <li>NO APFO TRAFFIC STUDY IS REQUIRED FOR THIS PUMP S         <ul> <li>A TRAFFIC STUDY FOR THIS PROJECT PREPARED BY THE</li> </ul> </li> </ul>	STATION PROJECT.	
2	WAS APPROVED APRIL 2015. 5. THE PROPOSED ACCESS POINT IS SHOWN HEREON FROM AVENUE.		
0	- THE PROPOSED PROJECT STREETS ARE CLASSIFIED AS ACCESS PLACE.	PUBLIC MINOR COLLECTOR, ACCESS STREET OR	
2	<ul> <li>A NOISE STUDY IS NOT REQUIRED FOR THIS PROJECT.</li> <li>THERE ARE NO FLOODPLAIN, WETLANDS, WETLAND BUFFER THE PROJECT.</li> <li>TEST PITS WERE COMPLETED BY ROBERT H. VOGEL ENG</li> </ul>		
	ESD STORMWATER MANAGEMENT PRACTICES. -SOIL BORINGS WERE COMPLETED BY ECS LLC - JANUAI	RY 2015.	
2	7. THE PROPOSED BUILDINGS SHALL HAVE AN AUTOMATIC FIF B. ALL EXTERIOR LIGHTING TO COMPLY WITH THE REQUIREME COUNTY ZONING REGULATIONS. THE EXTENDED HOUTING OF THE DUMP STATION STRUCT	NTS FOUND IN ZONING SECTION 134 OF THE HOWARD	
	-THE EXTERIOR LIGHTING OF THE PUMP STATION STRUCTU . SIGNAGE SHALL BE PROVIDED ON THE BUILDING AND ON . PARKING DATA:	THE ENTRANCE GATES IDENTIFYING THE BUILDING ADDRESS	S.
	A. INTENDED USE OF STRUCTURE: WASTEWATER PUMF B. NUMBER OF SPACE REQUIRED: 2 C. NUMBER OF SPACE PROVIDED: 2		
	. WETLANDS AND STREAMS SHOWN ONSITE ARE BASED ON ANALYSIS, INC. (ESA). AUGUST 2013. 2. NO GRADING, REMOVAL OF VEGETATIVE COVER OR TREES,		
	WITHIN THE REQUIRED WETLANDS, STREAM(S) OR THEIR B 100–YEAR FLOODPLAIN. 5. FOREST STAND DELINEATION PLAN PREPARED BY KLEBASK	UFFERS, FOREST CONSERVATION EASEMENT AREAS AND	
	<ul> <li>KLEBASKO, P.W.S., DATED MAY 2014.</li> <li>– FOREST CONSERVATION HAS BEEN ADDRESSED UNDER SECTION 16.1200 OF THE HOWARD COUNTY FOREST CONS</li> </ul>	F16-021 TO FULFILL THE REQUIREMENTS OF	
	NO CLEARING, GRADING OR CONSTRUCTION IS PERMITTED HOWEVER, FOREST MANAGEMENT PRACTICES AS DEFINED I ARE ALLOWED.	WITHIN THE FOREST CONSERVATION EASEMENT,	
3	ANE ALLOWED. STORMWATER MANAGEMENT FOR THIS PROJECT IS PROVIDE ACCORDANCE WITH ENVIRONMENTAL SITE DESIGN CRITERIA. OWNED AND JOINTLY MAINTAINED (H.O.A. AND HOWARD CO.	A MICRO-BIORETENTION FACILITY WILL BE PRIVATELY	
7	STRUCTURES AND PIPES WHILE THE H.O.A. AND HOWARD CC STRUCTURES AND PIPES WHILE THE H.O.A. SHALL MAINTAI UNDERDRAINS, FEEDER PIPES, AND ROUTINE SOIL REPLAC THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH SI	N MULCH, WEEDING, PLANTINGS, PERFORATED EMENT.	
J	THE LANDSCAPE MANUAL. A FINANCIAL SURETY IN THE AMOUNT OF \$6,750.00 FOR	THE PERIMETER LANDSCAPING (REQUIRED 17 SHADE	
	TREES \$5,100 AND 11 EVERGREENS \$1,650.00), SHALL E THIS PLAN. -STREET TREES HAVE BEEN PROVIDED UNDER F16-072.		
3	THE MAPLE LAWN SOUTH PROJECT IS SUBJECT TO PLANNI PLANNING BOARD OF HOWARD COUNTY APPROVED SP-15- DETACHED RESIDENTIAL LOTS AND THIRTEEN OPEN SPACE ZONED R ED MYD 3	-014 FOR THE SUBDIVISION OF 176 SINGLE FAMILY	SITE ANALYSIS DATA CHAP
3	ZONED R-ED-MXD-3. THIS PROJECT IS SUBJECT TO WP-19-002. ON JULY 20 REQUEST FOR AN ALTERNATIVE COMPLIANCE TO SECTION	16.156(M) OF THE SUBDIVISION AND LAND DEVELOPMENT	SUBJECT PROPERTY:
	REGULATIONS WHICH REQUIRE WITHIN 180 DAYS OF APPR SHALL SUBMIT THE ORIGINAL MYLAR PLANS CORRECTED TO AND COUNTY AGENCIES AND THE PLANNING BOARD. APP	O MEET THE REQUIREMENTS OF THE VARIOUS STATE ROVAL IS SUBJECT TO THE FOLLOWING CONDITIONS:	PROPERTY REFERENCE:
	OF THIS ALTERNATIVE COMPLIANCE APPROVAL LETTER (ON OR BEFORE APRIL 26, 2019).		A. TOTAL PROJECT AREA: B. AREA OF PLAN SUBMISSION: C. LIMIT OF DISTURBED AREA:
		DECISION AS A GENERAL NOTE ON SDP-17-005. THIS PETITION FILE NUMBER, THE REGULATORY SECTION THE CONDITIONS OF APPROVAL.	D. PRESENT ZONING DESIGNATION: E. PROPOSED USES FOR SITE AND STRUCTU F. FLOOR SPACE ON EACH LEVEL:
			G. TOTAL NUMBER OF UNITS ALLOWED: H. TOTAL NUMBER OF UNITS PROPOSED:
			I. MAXIMUM # OF EMPLOYEES:
			<ul><li>J. NUMBER OF PARKING SPACES REQUIRED:</li><li>K. NUMBER OF PARKING SPACES PROVIDED:</li><li>L. OPEN SPACE ON-SITE:</li></ul>
	APPROVED: HOWARD COUNTY DEPARTMENT OF PLANN	ING AND ZONING	M. AREA OF RECREATION OPEN SPACE: N. BUILDING COVERAGE:
	Chil Edular	9.10.18	
	CHIEF, DEVELOPMENT ENGINEERING DIVISION JP	DATE 9-13-18	P. ANY OTHER INFORMATION Q. FLOOR AREA RATIO (FAR)
	CHIEF, DIVISION OF LAND DEVELOPMENT	DATE	

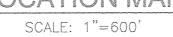
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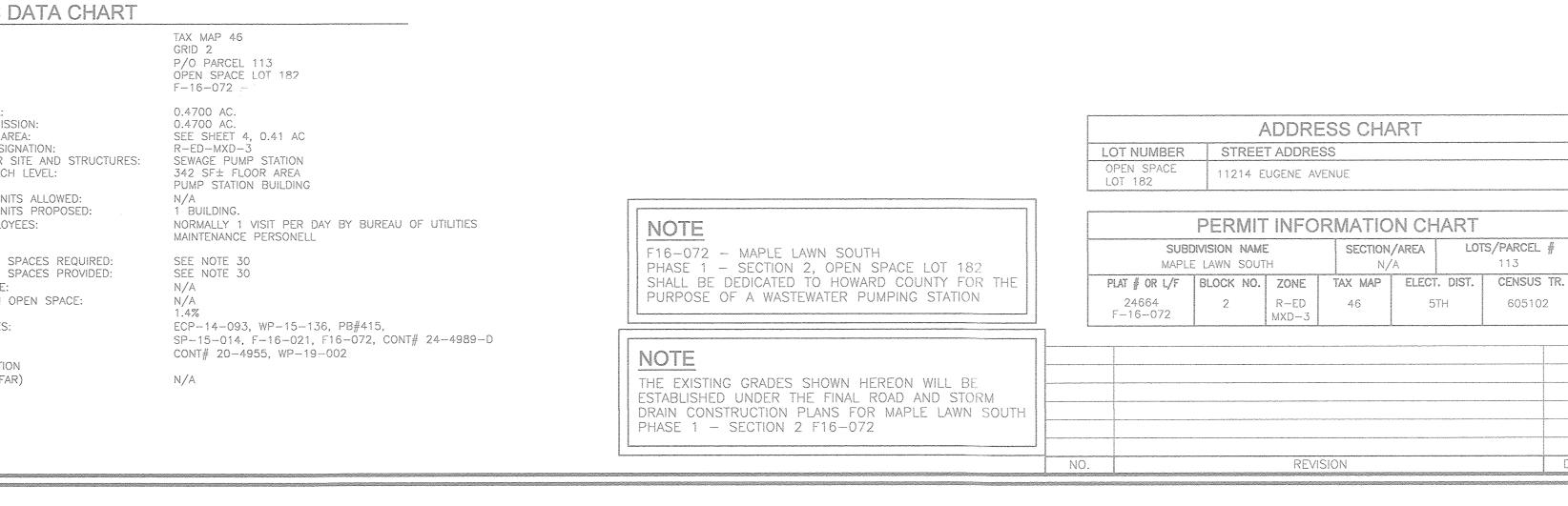
DATE

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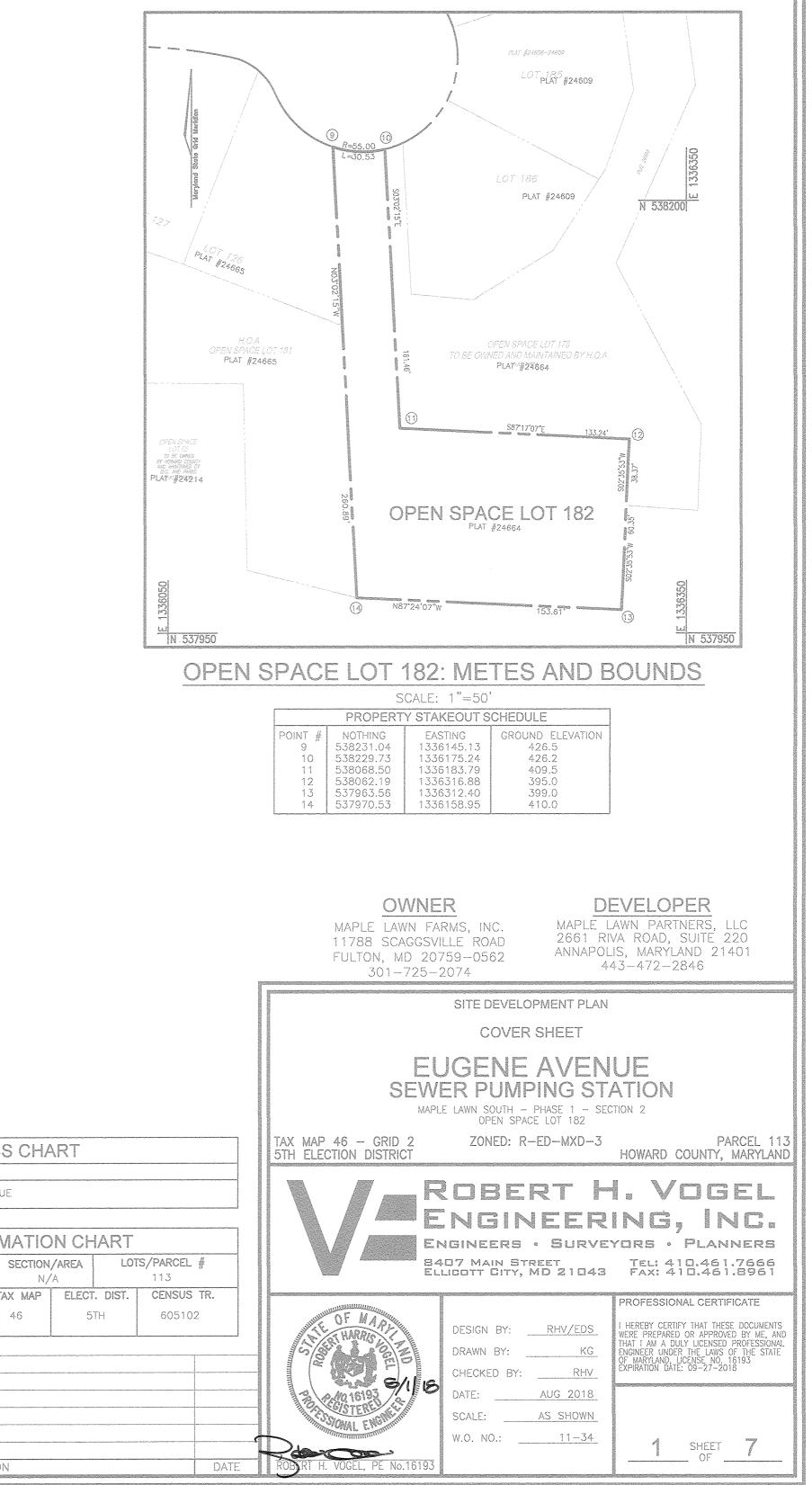
# SITE DEVELOPMENT PLAN EUGENE AVENUE SEWER PUMPING STATION MAPLE LAWN SOUTH - PHASE 1 - SECTION 2 **OPEN SPACE LOT 182** HOWARD COUNTY, MARYLAND







SURVEY CON	TROL	Sea Q41GE Doman
HOWARD COUNTY BENCHMARK N 540,396.42 E 1,335,505.31 RT. 216, 33.2' WEST OF BG& HOWARD COUNTY BENCHMARK N 541,559.78 E 1,333,698.38 RT. 216, 82.4' WEST OF BG &	I ELEV.: 447.01 FT. E POLE#315163 41GE 3 ELEV.: 465.05 FT	LIME KILN ROND
SHEET INDEX		
DESCRIPTION	SHEET NO.	S MURPHY ROAD
COVER SHEET	1 OF 7	MURPHY ROAD
SITE LAYOUT AND LANDSCAPE PLAN	2 OF 7	
GRADING, SOILS MAP, SOIL EROSION AND SEDIMENT CONTROL PLAN	3 OF 7	
GRADING AND SOIL EROSION & SEDIMENT CONTROL - NOTES AND DETAILS	4 OF 7	
DRIVEWAY / PAVING DETAILS AND SOIL BORING LOGS	5 OF 7	VICINITY MAP
BUILDING PROFILES AND MISCELLANEOUS DETAILS	6 OF 7	SCALE: 1"=2000'
STORMWATER MANAGEMENT NOTES AND DETAILS AND CONTRACT 24-4989-D SEWER PROFILES	7 OF 7	ADC MAP COORDINATES: 18H 5, 6 18J 5, 6





# NOTE

THE REQUIRED PUMP STATION LANDSCAPING IS LOCATED OFFSITE AS REQUESTED BY HOWARD COUNTY. THE MAINTENANCE OF THE REQUIRED PLANTINGS IS THE RESPONSIBILITY OF THE COMMUNITY H.O.A.

## LANDSCAPE NOTES

1. AT THE TIME OF PLANT INSTALLATION, ALL SHRUBS AND TREES LISTED AND APPROVED ON THE LANDSCAPE PLAN, SHALL COMPLY WITH THE PROPER HEIGHT REQUIREMENT IN ACCORDANCE WITH THE HOWARD COUNTY LANDSCAPE MANUAL. IN ADDITION, NO SUBSTITUTIONS OR RELOCATIONS OF THE REQUIRED PLANTINGS MAY BE MADE WITHOUT PRIOR REVIEW AND APPROVAL FROM THE DEPARTMENT OF PLANNING AND ZONING, ANY DEVIATION FROM THE APPROVED LANDSCAPE PLAN MAY RESULT IN DENIAL OR DELAY IN THE RELEASE OF LANDSCAPE SURETY UNTIL SUCH TIME AS ALL REQUIRED MATERIALS ARE PLANTED AND/OR REVISIONS ARE MADE TO THE APPLICABLE PLANS.

2. THE OWNER, TENANT AND/OR THEIR AGENTS SHALL BE RESPONSIBLE FOR MAINTENANCE OF THE REQUIRED LANDSCAPING INCLUDING BOTH PLANT MATERIALS AND BERMS, FENCES AND WALLS. ALL PLANT MATERIALS SHALL BE MAINTAINED IN GOOD GROWING CONDITION, AND WHEN NECESSARY, REPLACED WITH NEW MATERIALS TO ENSURE CONTINUED COMPLIANCE WITH APPLICABLE REGULATIONS. ALL OTHER REQUIRED LANDSCAPING SHALL BE PERMANENTLY MAINTAINED IN GOOD CONDITION, AND WHEN NECESSARY, REPAIRED OR REPLACED. 3. SHOULD ANY TREE DESIGNATED FOR PRESERVATION FOR WHICH LANDSCAPING CREDIT IS GIVEN, DIE PRIOR TO RELEASE OF BONDS, THE OWNER WILL BE REQUIRED TO REPLACE THE TREE WITH THE

EQUIVALENT SPECIES OR WITH A TREE WHICH WILL OBTAIN THE SAME HEIGHT, SPREAD, AND GROWTH CHARACTERISTICS. THE REPLACEMENT TREE MUST BE A MINIMUM OF 3 INCHES IN CALIPER AND INSTALLED AS REQUIRED IN THE HOWARD COUNTY LANDSCAPE MANUAL. 4. PLANTINGS SHOWN HEREON ARE THE RESPONSIBLITY OF THE DEVELOPER TO INSTALL DURING THE CONSTRUCTION OF

THE FINAL PLAN. 5. SURETY FOR THE PROPOSED LANDSCAPING SHALL BE BASED ON THE NUMBER OF PLANTINGS REQUIRED.

THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL. A FINANCIAL SURETY IN THE AMOUNT OF \$6,750.00 FOR THE PERIMETER LANDSCAPING (REQUIRED 17 SHADE TREES \$5,100 AND 11 EVERGREENS \$1,650.00), SHALL BE POSTED WITH THE DEVELOPERS AGREEMENT FOR THIS PLAN.

FENCE STAKEOUT SCHEDULE					
POINT #	NOTHING 538070.09	EASTING 1336175.70	GROUND ELEVATION 410.5		
2	538059.61	1336182.42	409.9		
3	538054.00	1336194.52	408.8		
4	538050.87	1336263.38	407.0		
5	538042.68	1336271.52	407.0		
6	537974.57	1336268.43	407.0		
7	537979.51	1336159.46	408.5		
8	538068.98	1336154.73	411.2		

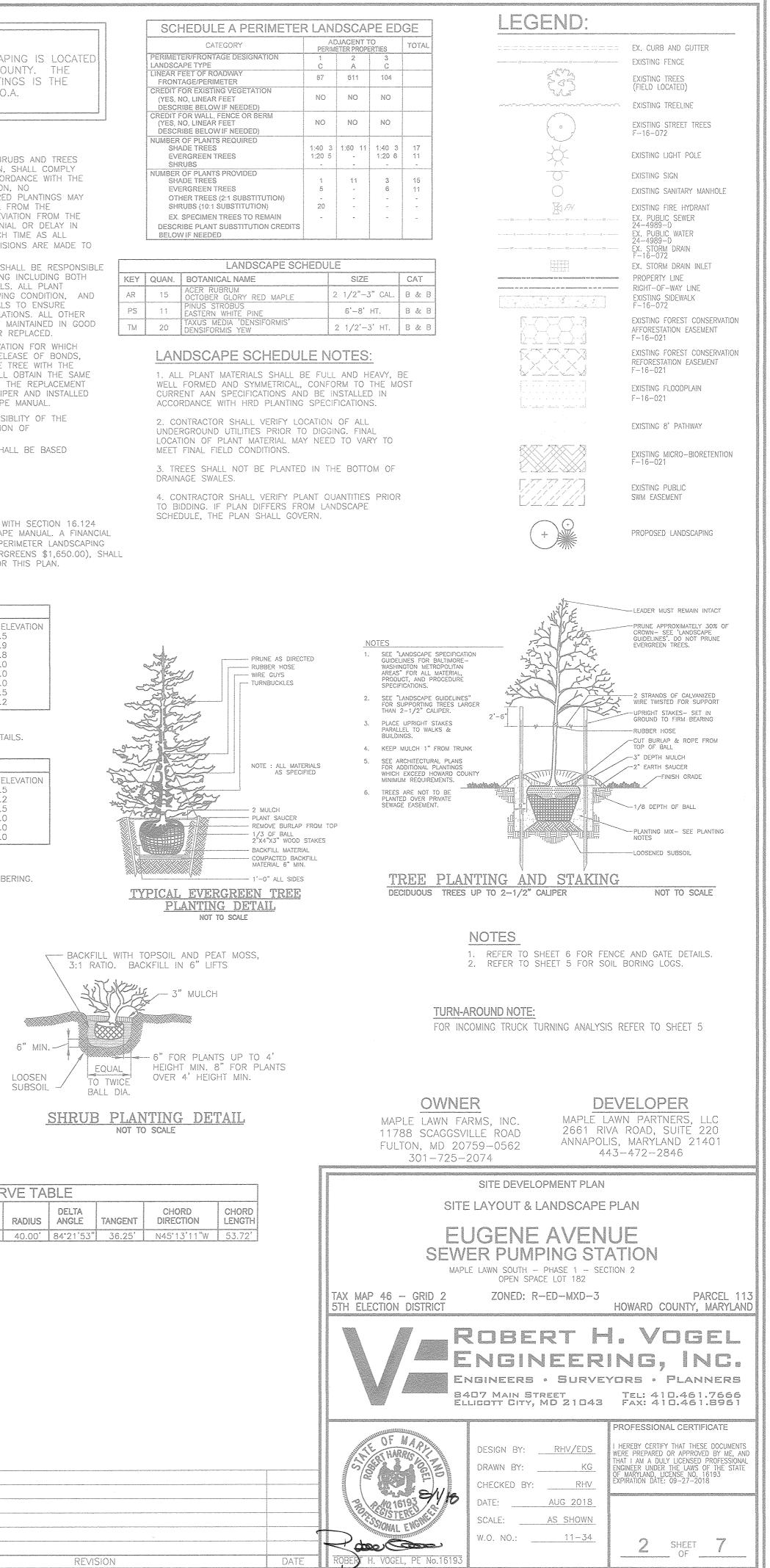
1. REFER TO SHEET 6 FOR FENCE AND GATE DETAILS.

PROPERTY STAKEOUT SCHEDULE					
POINT #	NOTHING 538231.04	EASTING 1336145.13	GROUND ELEVATION 426.5		
9 10	538229.73	1336175.24	426.2		
11 12	538068.50 538062.19	1336183.79 1336316.88	409 <i>.</i> 5 395.0		
13	537963.56	1336312.40	399.0		
14	537970.53	1336158.95	410.0		

NOTE

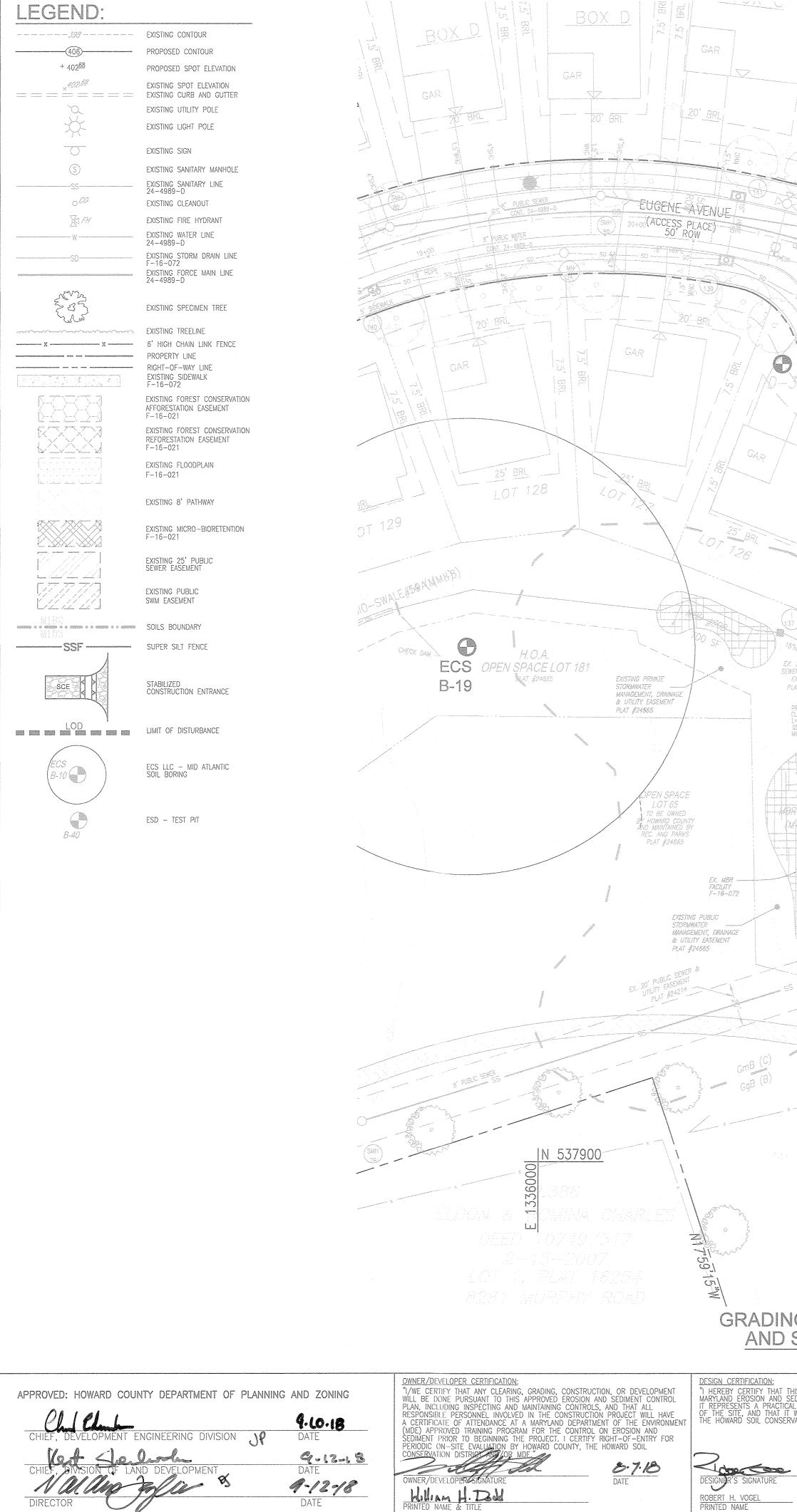
NOTE

1. REFER TO SHEET 1 FOR PLAN VIEW AND NUMBERING.

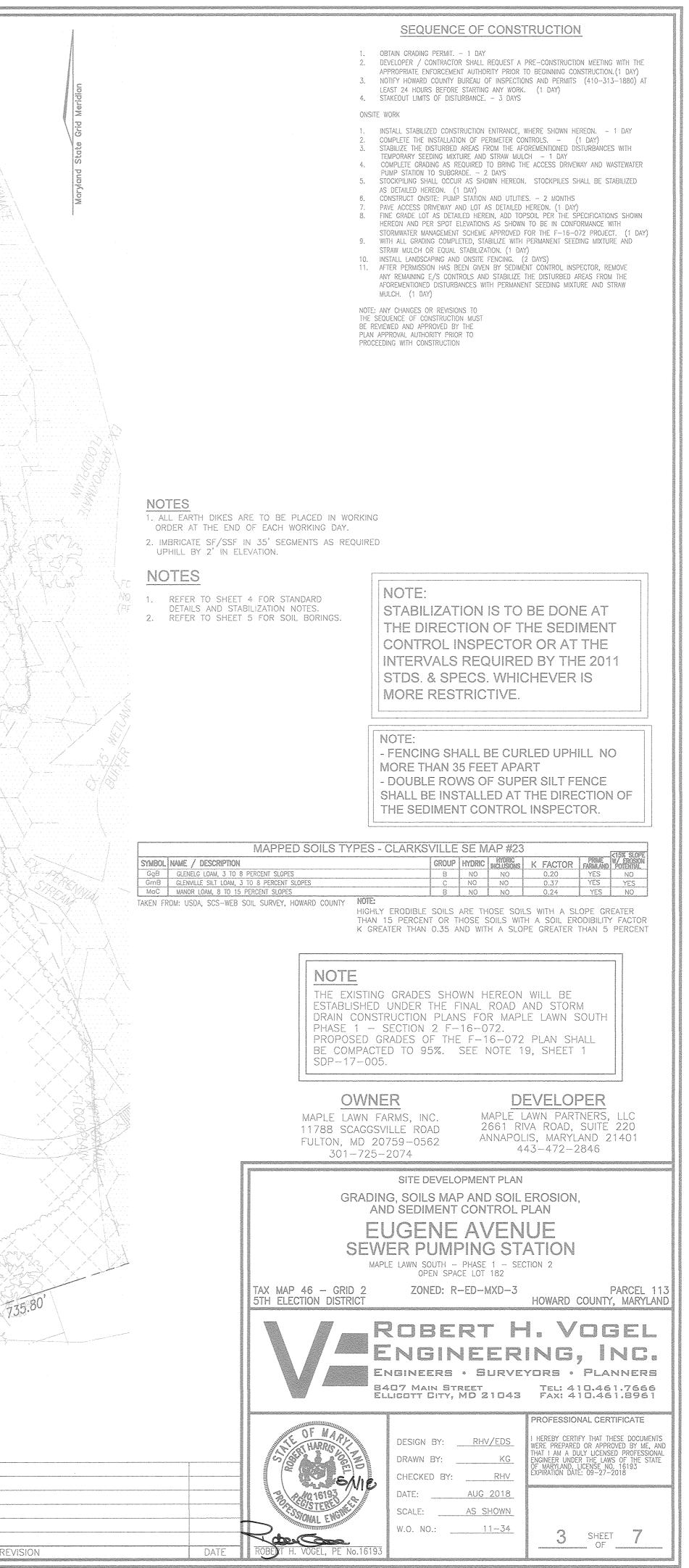


CURVE TABL			
CURVE	LENGTH	RADIUS	DELT ANGL
DRIVEWAY - 1+68.28 - 2+25.18	58.90'	40.00'	84°21

NO.



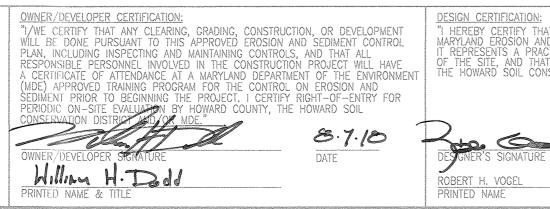
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					
1. 1. 2. 1. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 1. 2. 1.					
GAR /					
20 <sup>1</sup> /8 <sup>2</sup> /	LOT 184			Emport.	
the total of the	LOT TO 44			le contraction de la contracti	
D-	7.5 BR			Eliment	
SMAH 55' ROW	C BR			the second se	
6° PU SOLER 6° PU BLC MALER COVI. 24-4009-07 COVI. 24-4009-07 COVI. 24-400-07 COVI. 24-400-07 COVI. 24-400-07 COVI. 24-400-07 COVI. 24-400-07 COVI. 24-400-07 COVI. 24-400-07 COVI. 24-400-07 COVI. 24-40-07 COVI. 24-40-07 COVI	MAPLE LAWN DUASE	SOUTH		OPENSPACE LOT	65
30 * 7 - 24 - 24 - 25.00 -	PHASE . PLAT #24608-2	2 4609		CONTROL TO BE OWNED BY HOWARD COUNTY A MAINTAINED BY RE AND PANKS	MD - XHARANDAAYDAA
	LOT 1	85	A THE	AND PARKS PLAT #24213	
	A 25' A				
	Stand D-34				
20 BR BOLLARDS			336350	and the second s	
	LUT TOD /	OPEN ST	) EE 133	t. Muuruir	
© PROPE		1 43	N-538200	EX. FOREST CONS AREA #3 - 6.2	ERVATION CALL
© PROPERTY LINE	r B	OHECK		AFFORESTA PLAT #2421	<i>110N</i> / EX-
DRIVEWAY		B-38			
N03.02 1					
Write 1					
	9 OPEN SPACE L	OT 178	acherer		
20' PUBLIC ER & UTILITY ASEMENT AT \$24664 T C AT \$24664 AT \$246646 AT \$246646 AT \$24664666666666666666666666666666666666	TO BE OWNED AND MAIN PLAT 24664	TAINEDBY H.O.A.			
PC=1+66.28	COTATION	Researce statistics		Om B (C)	
120 + PRO + PRO		133.24 <u>55</u> 7.5' BRL +			
+ PROPERTY LINE BYPASS ASSEMBLY MANHOLE 12FE	ICT BANK	50 22* HDF9755			
MANHOLE 12 ET 09 09 09 08	$\begin{array}{c} 2+25 \\ 18 \\ \hline \\ 0 \\ (1YP, OF 1) \\ 8 \\ 6 \\ \hline \end{array}$	SET 0.0 00 000 000 000 000 000 000 000 000	DX. RPR# CASS 1 MSM L=10 - W=11.5' 		
FLOWMETER 00 08	$3' \times 4'$ MERGENCY TO $07^2 + 1$ GENERATOR PAD $p_3$ $07^2 + 1$	<b>4</b> <b>6</b> <b>6</b> <b>7</b>	059-85 HR. THECK = 19 D.A.~4.70 AC		
SENSOR VAULT	AD-MOUNTED TILITY TRANSFORMER -18'x19' CONTROL BUILDING, FFE=409.33	25' BRI.	GmB (C)		OPEN SPACE LOT 65 TO BE OWNED BY
PLONER ON BLONER PAD CONC. PAD	99 <sup>2</sup> P-2		MaC (B)		HOWARD COUNTY AND MAINTAINED BY REC. AND PARKS
NI87°D 4'07"		The Friday	MBR XUITY 15-072		PLAT #24213
SOF / NO7 24 07 W BLOWER SOF W/ PAVILION	A 2 PARKING SPACES	.61			
REFERENCE CONTRACT # 20-4955					
		r de la Constante de la Consta	TEXISTING PAGLIC STORMMARCR MANADOMENT, DRSCNAGE & URILITY EASEMENT XAT #24665		
				ST CONSERVATION FA #2 - 0.78 AC	
	OPEN SPACE LOT 65		a a the first of t	A #2 - 0.70 AC ORESTATION PLAT #24213	
	TO BE OWNED BY HOWARD COUNTY AND MAINTAINED BY REC. AND PARKS		00 N 537960		
	PLAT #24213				
					5 71°58'33" W
G, SOILS MAP, SOIL ERO	OSION 70'	0 70'		HARA -	5 5 5 71°58 Jun
SEDIMENT CONTROL PL	AN 30'	0 30'	60' 90		
IS PLAN HAS BEEN DESIGNED IN ACCORDANCE WITH CURRENT DIMENT CONTROL LAWS, REGULATIONS, AND STANDARDS, THAT AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF ATION DISTRICT."				[	
	THIS DEVELOPMENT PLAN IS APPROVED I SEDIMENT CONTROL BY THE HOWARD SO	FOR SOIL EROSION AND IL CONSERVATION DISTRICT.			
<b>8/1/16</b> DATE	John PPIK	e/nelia			
MD REGISTRATION NO. <u>16193</u> (P.E), R.L.S., OR R.L.A. (circle one)	HOMARD S.C.D.	OJ CATE		NO.	







APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING 9.00.18 DEVELOPMENT ENGINEERING DIVISION 9.12.13 9-12-16



(GREATER THAN 30 PERCENT SILT PLUS CLAY) TO PROVIDE THE CAPACITY TO HOLD PLANTED, THEN A SANDY SOIL (LESS THAN 30 PERCENT SILT PLUS CLAY) WOULD

B-4-3 STANDARDS AND SPECIFICATIONS SEEDING AND MULCHING

DEFINITION THE APPLICATION OF SEED AND MULCH TO ESTABLISH VEGETATIVE COVER. PURPOSE

TO PROTECT DISTURBED SOILS FROM EROSION DURING AND AT THE END OF CONSTRUCTION. CONDITIONS WHERE PRACTICE APPLIES

TO THE SURFACE OF ALL PERIMETER CONTROLS, SLOPES, AND ANY DISTURBED AREA NOT UNDER ACTIVE GRADING.

## CRITERIA A. SEEDING 1.SPECIFICATIO

A. ALL SEED MUST MEET THE REQUIREMENTS OF THE MARYLAND STATE SEED LAW. ALL SEED MUST BE SUBJECT TO RE-TESTING BY A RECOGNIZED SEED LABORATORY. ALL SEED USED MUST HAVE BEEN TESTED WITHIN THE 6 MONTHS IMMEDIATELY PRECEDING THE DATE OF SOWING SUCH MATERIAL ON ANY PROJECT. REFER TO TABLE B.4 REGARDING THE QUALITY OF SEED. SEED TAGS MUST BE AVAILABLE UPON REQUEST TO THE INSPECTOR TO VERIFY TYPE OF SEED AND SEEDING RATE. B. MULCH ALONE MAY BE APPLIED BETWEEN THE FALL AND SPRING SEEDING DATES ONLY IF THE GROUND IS FROZEN. THE APPROPRIATE SEEDING MIXTURE MUST BE APPLIED WHEN THE GROUND

C. INOCULANTS: THE INOCULANT FOR TREATING LEGUME SEED IN THE SEED MIXTURES MUST BE A PURE CULTURE OF NITROGEN FIXING BACTERIA PREPARED SPECIFICALLY FOR THE SPECIES. INOCULANTS MUST NOT BE USED LATER THAN THE DATE INDICATED ON THE CONTAINER. ADD FRESH INOCULANTS AS DIRECTED ON THE PACKAGE. USE FOUR TIMES THE RECOMMENDED RATE WHEN HYDROSEEDING, NOTE: IT IS VERY IMPORTANT TO KEEP INOCULANT AS COOL AS POSSIBLE UNTIL USED, TEMPERATURES ABOVE 75 TO 80 DEGREES FAHRENHEIT CAN WEAKEN BACTERIA AND MAKE THE INOCULANT LESS EFFECTIV D. SOD OR SEED MUST NOT BE PLACED ON SOIL WHICH HAS BEEN TREATED WITH SOIL STERILANTS

OR CHEMICALS USED FOR WEED CONTROL UNTIL SUFFICIENT TIME HAS ELAPSED (14 DAYS MIN.) TO PERMIT DISSIPATION OF PHYTO-TOXIC MATERIALS. 2. APPLICATION A. DRY SEEDING: THIS INCLUDES USE OF CONVENTIONAL DROP OR BROADCAST SPREADERS.

- I. INCORPORATE SEED INTO THE SUBSOIL AT THE RATES PRESCRIBED ON TEMPORARY SEEDING TABLE 8.1, PERMANENT SEEDING TABLE 8.3, OR SITE-SPECIFIC SEEDING SUMMARIES. II. APPLY SEED IN TWO DIRECTIONS, PERPENDICULAR TO EACH OTHER. APPLY HALF THE SEEDING
- RATE IN EACH DIRECTION. ROLL THE SEEDED AREA WITH A WEIGHTED ROLLER TO PROVIDE GOOD SEED TO SOIL CONTACT. B. DRILL OR CULTIPACKER SEEDING: MECHANIZED SEEDERS THAT APPLY AND COVER SEED WITH SOIL.
- I. CULTIPACKING SEEDERS ARE REQUIRED TO BURY THE SEED IN SUCH A FASHION AS TO PROVIDE AT LEAST 1/4 INCH OF SOIL COVERING. SEEDBED MUST BE FIRM AFTER PLANTING. II. APPLY SEED IN TWO DIRECTIONS, PERPENDICULAR TO EACH OTHER. APPLY HALF THE SEEDING
- RATE IN EACH DIRECTION. C. HYDROSEEDING: APPLY SEED UNIFORMLY WITH HYDROSEEDER (SLURRY INCLUDES SEED AND FERTILIZER)
- I. IF FERTILIZER IS BEING APPLIED AT THE TIME OF SEEDING, THE APPLICATION RATES SHOULD NOT EXCEED THE FOLLOWING: NITROGEN, 100 POUNDS PER ACRE TOTAL OF SOLUBLE NITROGEN; P205 (PHOSPHOROUS), 200 POUNDS PER ACRE; K20 (POTASSIUM), 200 POUNDS PER ACRE. II. LIME: USE ONLY GROUND AGRICULTURAL LIMESTONE (UP TO 3 TONS PER ACRE MAY BE APPLIED
- BY HYDROSEEDING). NORMALLY, NOT MORE THAN 2 TONS ARE APPLIED BY HYDROSEEDING AT ANY ONE TIME. DO NOT USE BURNT OR HYDRATED LIME WHEN HYDROSEEDING. III. MIX SEED AND FERTILIZER ON SITE AND SEED IMMEDIATELY AND WITHOUT INTERRUPTION. IV. WHEN HYDROSEEDING DO NOT INCORPORATE SEED INTO THE SOIL.
- B. MULCHING I. MULCH MATERIALS (IN ORDER OF PREFERENCE) A. STRAW CONSISTING OF THOROUGHLY THRESHED WHEAT, LYE, OAT, OR BARLEY AND REASONABLY BRIGHT IN COLOR. STRAW IS TO BE FREE OF NOXIOUS WEED SEEDS AS SPECIFIED IN THE
- MARYLAND SEED LAW AND NOT MUSTY, MOLDY, CAKED, DECAYED, OR EXCESSIVELY DUSTY. NOTE: USE ONLY STERILE STRAW MULCH IN AREAS WHERE ONE SPECIES OF GRASS IS DESIRED. B. WOOD CELLULOSE FIBER MULCH (WCFM) CONSISTING OF SPECIALLY PREPARED WOOD CELLULOSE PROCESSED INTO A UNIFORM FIBROUS PHYSICAL STATE I. WCFM IS TO BE DYED GREEN OR CONTAIN A GREEN DYE IN THE PACKAGE THAT WILL PROVIDE AN APPROPRIATE COLOR TO FACILITATE VISUAL INSPECTION OF THE UNIFORMLY SPREAD SLURRY. II. WCFM, INCLUDING DYE, MUST CONTAIN NO GERMINATION OR GROWTH INHIBITING FACTORS.

III, WCFM MATERIALS ARE TO BE MANUFACTURED AND PROCESSED IN SUCH A MANNER THAT THE WOOD CELLULOSE FIBER MULCH WILL REMAIN IN UNIFORM SUSPENSION IN WATER UNDER AGITATION AND WILL BLEND WITH SEED, FERTILIZER AND OTHER ADDITIVES TO FORM A HOMOGENEOUS SLURRY. THE MULCH MATERIAL MUST FORM A BLOTTER-LIKE GROUND COVER, ON APPLICATION, HAVING MOISTURE ABSORPTION AND PERCOLATION PROPERTIES AND MUST COVER AND HOLD GRASS SEED IN CONTACT WITH THE SOIL WITHOUT INHIBITING THE GROWTH OF THE GRASS SEEDLINGS.

IV. WCFM MATERIAL MUST NOT CONTAIN ELEMENTS OR COMPOUNDS AT CONCENTRATION LEVELS THAT WILL BE V. WCFM MUST CONFORM TO THE FOLLOWING PHYSICAL REQUIREMENTS: FIBER LENGTH OF APPROXIMATELY 10 MILLIMETERS, DIAMETER APPROXIMATELY 1 MILLIMETER, PH RANGE OF 4.0 TO 8.5, ASH CONTENT OF 1.6 PERCENT MAXIMUM AND WATER HOLDING CAPACITY OF 90 PERCENT MINIMUM.

- 2. APPLICATION A. APPLY MULCH TO ALL SEEDED AREAS IMMEDIATELY AFTER SEEDING. B. WHEN STRAW MULCH IS USED, SPREAD IT OVER ALL SEEDED AREAS AT THE RATE OF 2 TONS PER ACRE TO A UNIFORM LOOSE DEPTH OF 1 TO 2 INCHES. APPLY MULCH TO ACHIEVE A
- UNIFORM DISTRIBUTION AND DEPTH SO THAT THE SOIL SURFACE IS NOT EXPOSED. WHEN USING MULCH ANCHORING TOOL, INCREASE THE APPLICATION RATE TO 2.5 TONS PER ACRE. C. WOOD CELLULOSE FIBER USED AS MULCH MUST BE APPLIED AT A NET DRY WEIGHT OF 1500 POUNDS PER ACRE. MIX THE WOOD CELLULOSE FIBER WITH WATER TO ATTAIN A MIXTURE WITH A
- MAXIMUM OF 50 POUNDS OF WOOD CELLULOSE FIBER PER 100 GALLONS OF WATER. ANCHORING A. PERFORM MULCH ANCHORING IMMEDIATELY FOLLOWING APPLICATION OF MULCH TO MINIMIZE LOSS BY WIND OR WATER. THIS MAY BE DONE BY ONE OF THE FOLLOWING METHODS (LISTED BY

PREFERENCE), DEPENDING UPON THE SIZE OF THE AREA AND EROSION HAZARD: I. A MULCH ANCHORING TOOL IS A TRACTOR DRAWN IMPLEMENT DESIGNED TO PUNCH AND ANCHOR MULCH INTO THE SOIL SURFACE A MINIMUM OF 2 INCHES. THIS PRACTICE IS MOST EFFECTIVE ON LARGE AREAS, BUT IS LIMITED TO FLATTER SLOPES WHERE EQUIPMENT CAN OPERATE SAFELY. IF USED ON SLOPING LAND, THIS PRACTICE SHOULD FOLLOW THE CONTOUR. II. WOOD CELLULOSE FIBER MAY BE USED FOR ANCHORING STRAW. APPLY THE FIBER BINDER AT A NET DRY WEIGHT OF 750 POUNDS PER ACRE. MIX THE WOOD CELLULOSE FIBER WITH WATER AT A MAXIMUM OF 50

POUNDS OF WOOD CELLULOSE FIBER PER 100 GALLONS OF WATER. III. SYNTHETIC BINDERS SUCH AS ACRYLIC DLR (AGRO-TACK), DCA-70, PETROSET TERRA TAX II, TERRA TACK AR OR OTHER APPROVED EQUAL MAY BE USED. FOLLOW APPLICATION RATES AS SPECIFIED BY THE MANUFACTURER, APPLICATION OF LIQUID BINDERS NEEDS TO BE HEAVIER AT THE EDGES WHERE WIND CATCHES MULCH, SUCH AS IN VALLEYS AND ON CRESTS OF BANKS. USE OF ASPHALT BINDERS IS STRICTLY PROHIBITED

IV. LIGHTWEIGHT PLASTIC NETTING MAY BE STAPLED OVER THE MULCH ACCORDING TO MANUFACTURER RECOMMENDATIONS. NETTING IS USUALLY AVAILABLE IN ROLLS 4 TO 15 FEET WIDE AND 300 TO 3,000 FEET

> B-4-4 STANDARDS AND SPECIFICATIONS FOR

TEMPORARY STABILIZATION DEFINITION

TO STABILIZE DISTURBED SOILS WITH VEGETATION FOR UP TO 6 MONTHS.

PURPOSE TO USE FAST GROWING VEGETATION THAT PROVIDES COVER ON DISTURBED SOILS.

CONDITIONS WHERE PRACTICE APPLIES

EXPOSED SOILS WHERE GROUND COVER IS NEEDED FOR A PERIOD OF 6 MONTHS OR LESS. FOR LONGER DURATION OF TIME, PERMANENT STABILIZATION PRACTICES ARE REQUIRED CRITERIA

1. SELECT ONE OR MORE OF THE SPECIES OR SEED MIXTURES LISTED IN TABLE 8.1 FOR THE APPROPRIATE PLANT HARDINESS ZONE (FROM FIGURE B.3), AND ENTER THEM IN THE TEMPORARY SEEDING SUMMARY BELOW ALONG WITH APPLICATION RATES, SEEDING DATES AND SEEDING DEPTHS. IF THIS SUMMARY IS NOT PUT ON THE PLAN AND COMPLETED, THEN TABLE 8.1 PLUS FERTILIZER AND LIME RATES MUST BE PUT ON THE PLAN.

2. FOR SITES HAVING SOIL TESTS PERFORMED, USE AND SHOW THE RECOMMENDED RATES BY THE TESTING AGENCY. SOIL TESTS ARE NOT REQUIRED FOR TEMPORARY

3. WHEN STABILIZATION IS REQUIRED OUTSIDE OF A SEEDING SEASON, APPLY SEED AND MULCH OR STRAW MULCH ALONE AS PRESCRIBED IN SECTION B-4-3.A.1.B AND MAINTAIN UNTIL THE NEXT SEEDING SEASON. TEMPORARY SEEDING SUMMARY

	HARDINESS ZONE (FROM FIGURE B.3): ZONE 6b SEED MIXTURE (FROM TABLE B.1):					LIME RATE
NO	SPECIES	APPLICATION RATE (LB/AC)	SEEDING DATES	SEEDING DEPTHS	(10-20-20)	
4	COOL SEASON ANNUAL RYEGRASS OR EQUAL	40 LB / AC	MAR 1 TO MAY 15 AUG 1 TO OCT 15	1/2 IN.	436 LB/AC (10 LB PER 1000 SF )	2 TONS/AC (90 LB PER 1000 SF )
2	WARM SEASON FOXTAIL MILLET OR EQUAL	30 LB / AC	MAY 16 TO JUL 31	1/2 IN.		

THIS PLAN HAS BEEN DESIGNED IN ACCORDANCE WITH CURRENT SEDIMENT CONTROL LAWS, REGULATIONS, AND STANDARDS, THAT CAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF ERVATION DISTRICT."	
	THIS DEVELOPMENT PLAN IS / SEDIMENT CONTROL BY THE F
e	I D DIC

D REGISTRATION NO. 16193 (P.E), R.L.S., OR R.L.A. (circle one) B-4-8 STANDARDS AND SPECIFICATIONS STOCKPILE AREA

A MOUND OR PILE OF SOIL PROTECTED BY APPROPRIATELY DESIGNED EROSION AND SEDIMENT CONTROL MEASURES. PURPOSE

# TO PROVIDE A DESIGNATED LOCATION FOR THE TEMPORARY STORAGE OF SOIL THAT CONTROLS THE POTENTIAL FOR EROSION, SEDIMENTATION, AND CHANGES TO DRAINAGE

CONDITIONS WHERE PRACTICE APPLIES

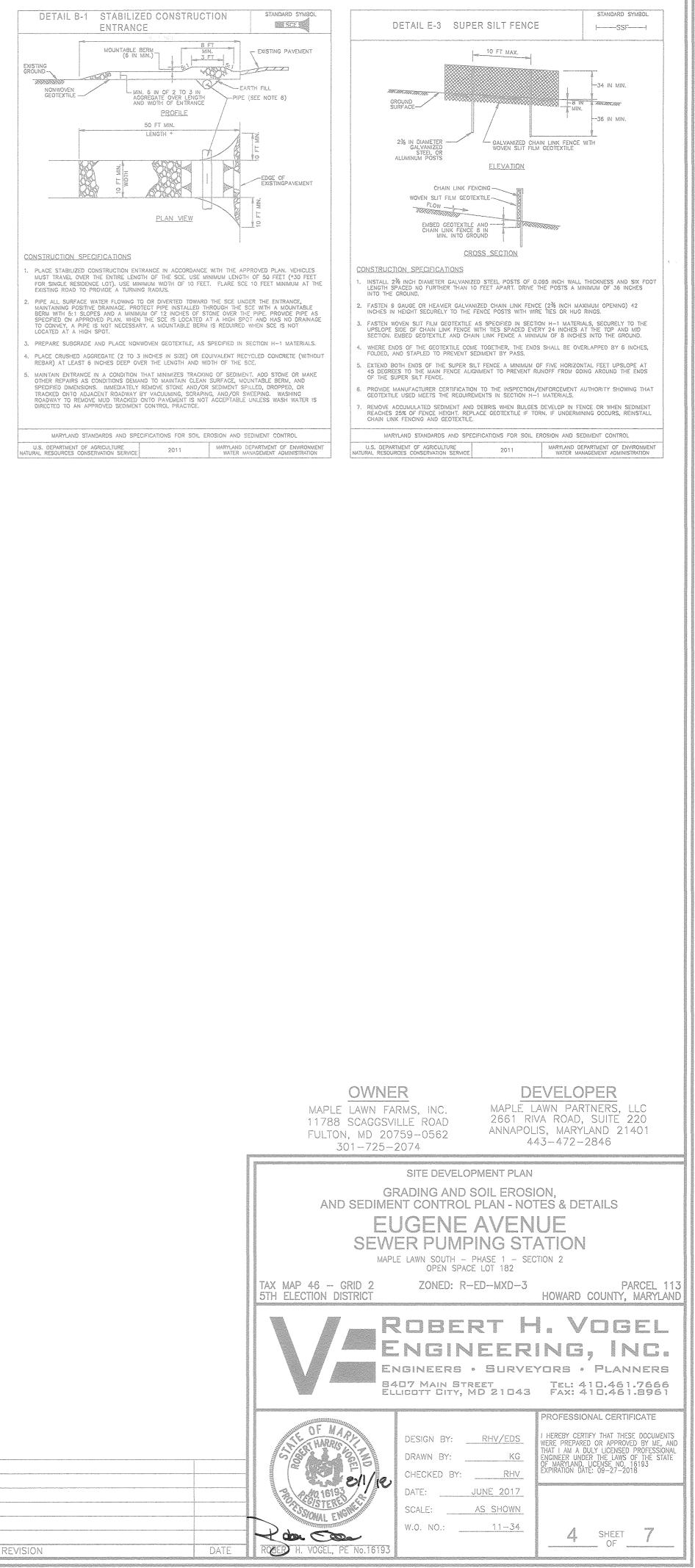
MAINTENANCE

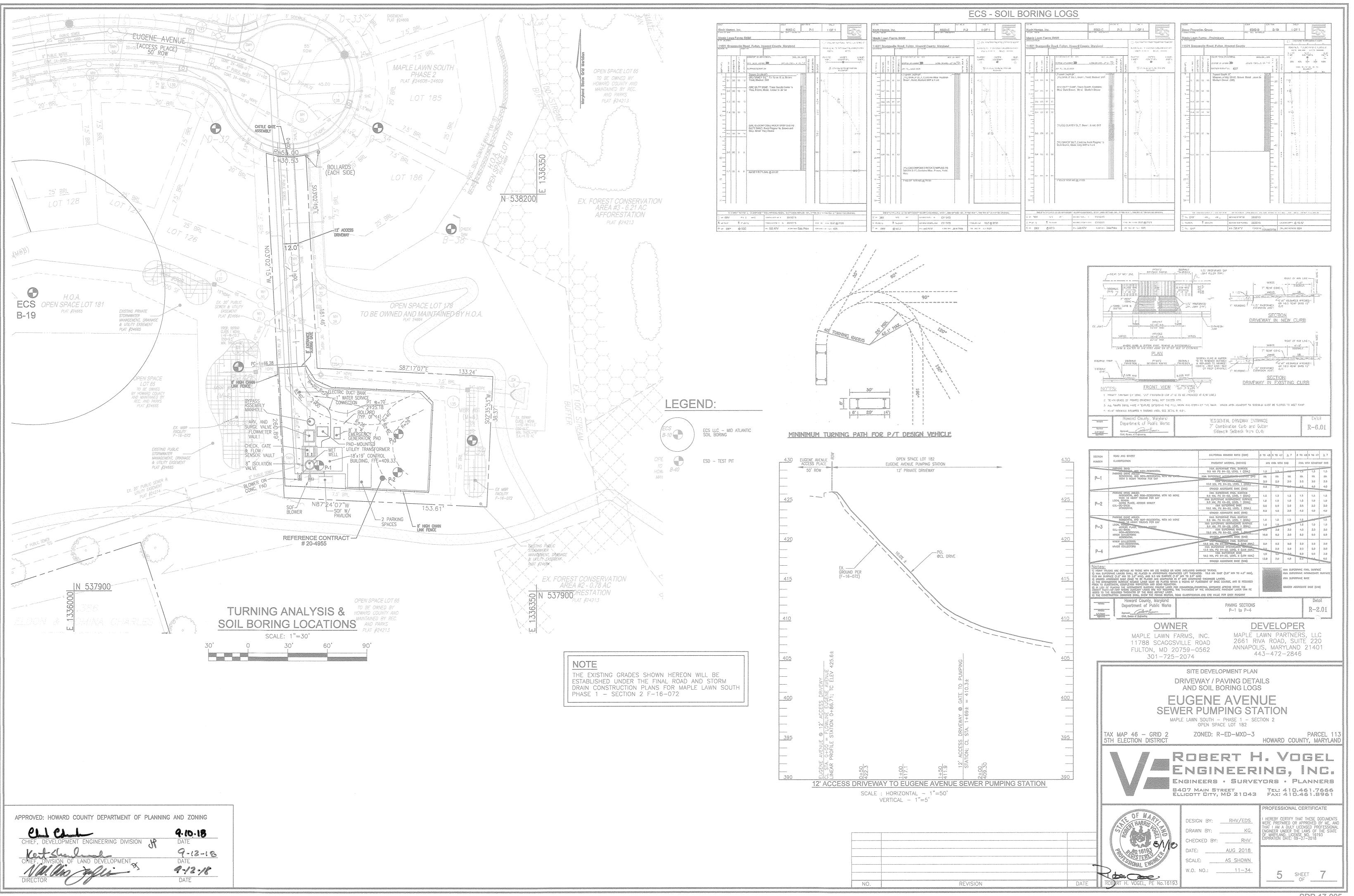
STOCKPILE AREAS ARE UTILIZED WHEN IT IS NECESSARY TO SALVAGE AND STORE SOIL FOR LATER USE. **CRITERIA** 

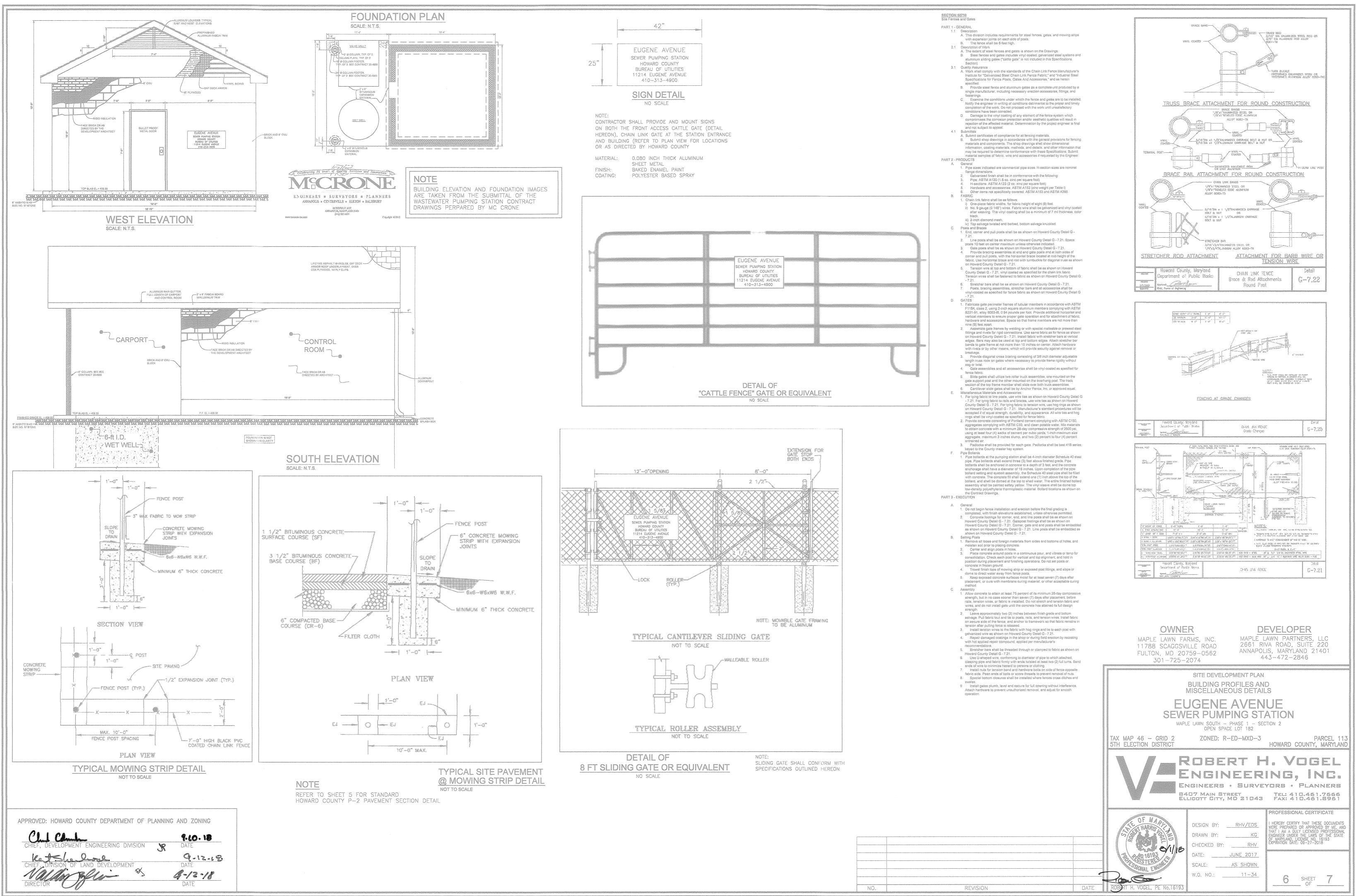
- 1. THE STOCKPILE LOCATION AND ALL RELATED SEDIMENT CONTROL PRACTICES MUST BE CLEARLY INDICATED ON THE EROSION AND SEDIMENT CONTROL PLAN. THE FOOTPRINT OF THE STOCKPILE MUST BE SIZED TO ACCOMMODATE THE ANTICIPATED VOLUME OF MATERIAL AND BASED ON A SIDE SLOPE RATIO NO
- STEEPER THAN 2:1. BENCHING MUST BE PROVIDED IN ACCORDANCE WITH SECTION B-3 LAND GRADING 3. RUNOFF FROM THE STOCKPILE AREA MUST DRAIN TO A SUITABLE SEDIMENT
- CONTROL PRACTICE. ACCESS THE STOCKPILE AREA FROM THE UPGRADE SIDE. CLEAR WATER RUNOFF INTO THE STOCKPILE AREA MUST BE MINIMIZED BY USE
- OF A DIVERSION DEVICE SUCH AS AN EARTH DIKE, TEMPORARY SWALE OR DIVERSION FENCE. PROVISIONS MUST BE MADE FOR DISCHARGING CONCENTRATED FLOW IN A NON-EROSIVE MANNER. 6. WHERE RUNOFF CONCENTRATES ALONG THE TOE OF THE STOCKPILE FILL, AN APPROPRIATE EROSION/SEDIMENT CONTROL PRACTICE MUST BE USED TO
- INTERCEPT THE DISCHARGE. STOCKPILES MUST BE STABILIZED IN ACCORDANCE WITH THE 3/7 DAY
- STABILIZATION REQUIREMENT AS WELL AS STANDARD B-4-1 INCREMENTAL STABILIZATION AND STANDARD B-4-4 TEMPORARY STABILIZATION. 8. IF THE STOCKPILE IS LOCATED ON AN IMPERVIOUS SURFACE, A LINER SHOULD BE PROVIDED BELOW THE STOCKPILE TO FACILITATE CLEANUP. STOCKPILES CONTAINING CONTAMINATED MATERIAL MUST BE COVERED WITH IMPERMEABLE SHEETING.

THE STOCKPILE AREA MUST CONTINUOUSLY MEET THE REQUIREMENTS FOR ADEQUATE VEGETATIVE ESTABLISHMENT IN ACCORDANCE WITH SECTION B-4 VEGETATIVE STABILIZATION. SIDE SLOPES MUST BE MAINTAINED AT NO STEEPER THAN A 2:1 RATIO, THE STOCKPILE AREA MUST BE KEPT FREE OF FROSION IF THE VERTICAL HEIGHT OF A STOCKPILE EXCEEDS 20 FEET FOR 2:1 SLOPES, 30 FEET FOR 3:1 SLOPES, OR 40 FEET FOR 4:1 SLOPES, BENCHING MUST BE PROVIDED IN ACCORDANCE WITH SECTION B-3 LAND GRADING.

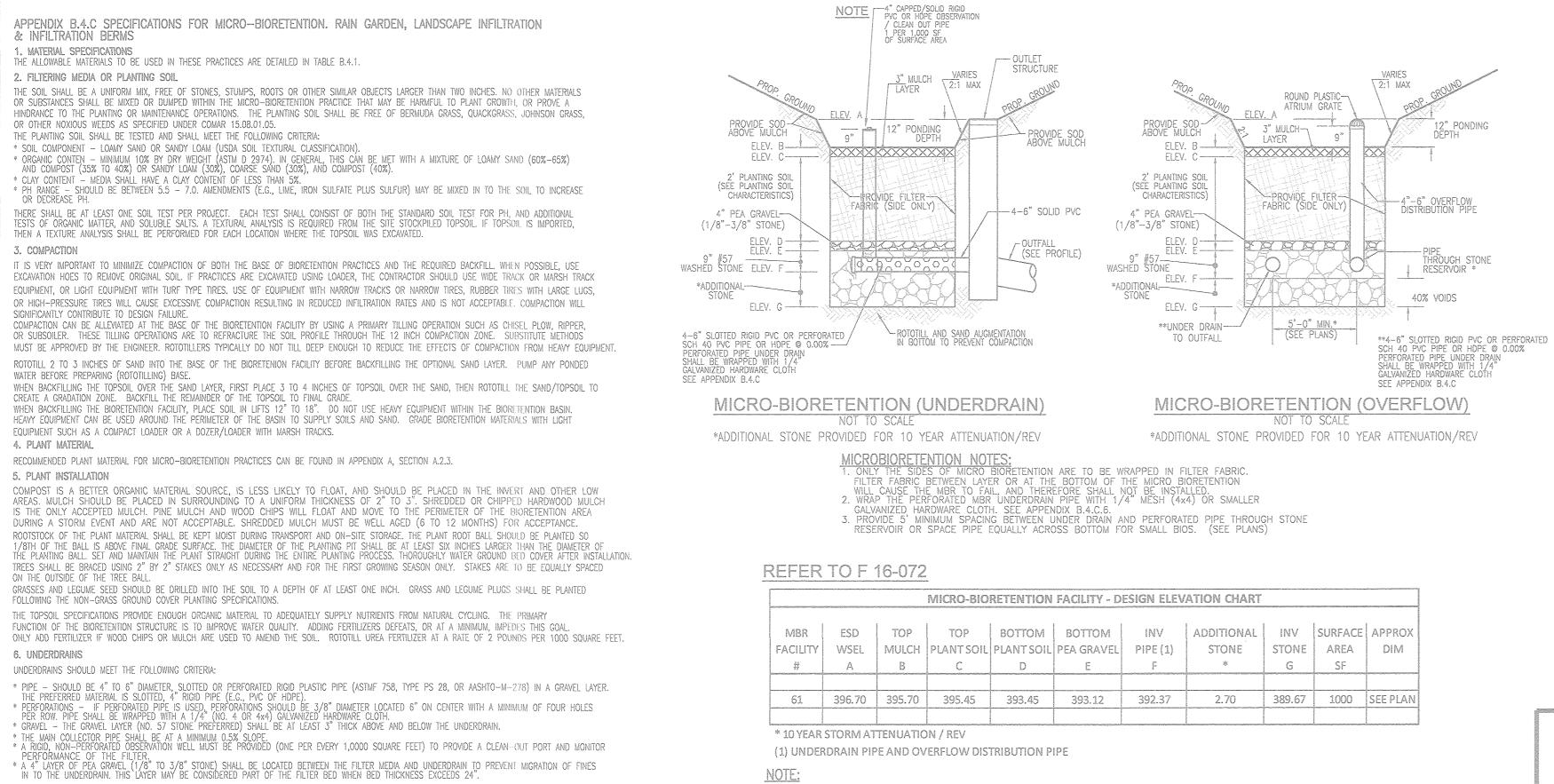
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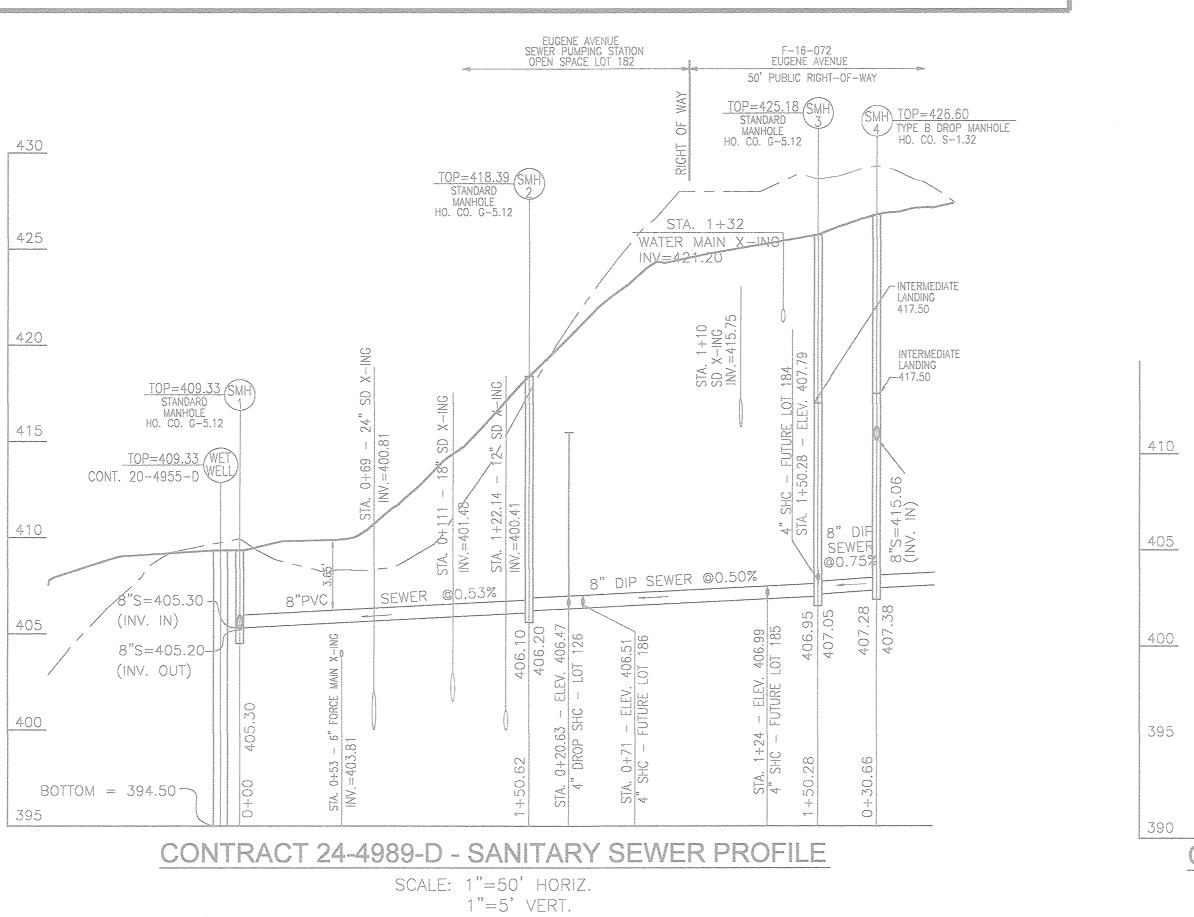


NO.	



THIS MAIN COLLECTOR PIPE FOR UNDERDRAIN SYSTEMS SHALL BE CONSTRUCTED AT A MINIMUM SLOPE OF 0.5%. OBSERVATION WELLS AND/OR CLEAN-OUT PIPES MUST BE PROVIDED (ONE MINIMUM PER EVERY 1000 SQUARE FEET OF SURFACE AREA). 7. MISCELLANEOUS

THESE PRACTICES MAY NOT BE CONSTRUCTED UNTIL ALL CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED.

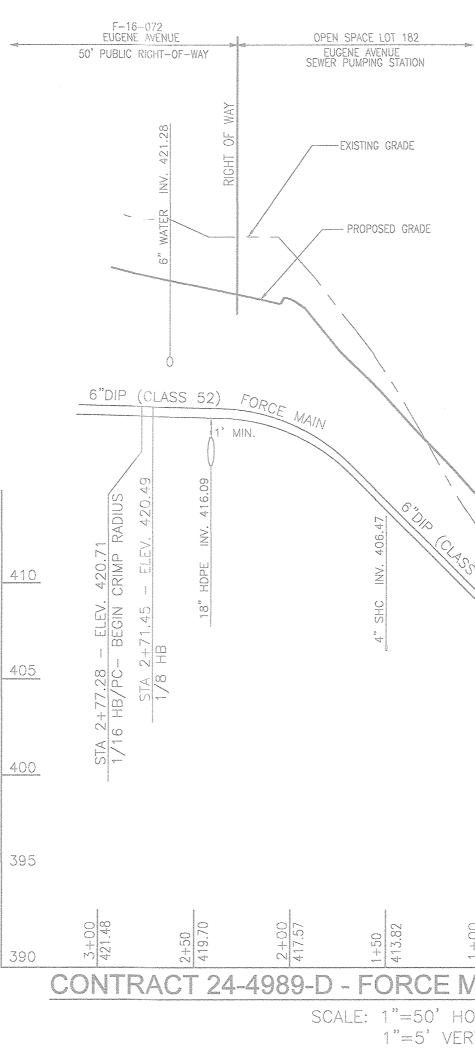


APPROVED: HOWARD	COUNTY DEPARTMENT OF	PLANNING AND ZONING
Chil Com	Angeres	8-10-18
CHIEF, DEVELOPME	ENT ENGINEERING DIVISION	JP DATE
Kg-A-S	helloop	9-12-18
CHIEF, DIVISION O	F LAND DEVELOPMENT	DATE
Nalla	Alin 3	412-18
DIRECTOR C	10	DATE

	pecifications for Micro-Bioret		
Material	Specification	Size	Notes
Plantings	see Appendix A, Table A.4	n/a	plantings a
Planting soil [2' to 4' deep]	loamy sand (60 - 65%) & compost (35 - 40%) or sandy loam (30%), coarse sand (30%) & compost (40%)	n/a	USDA soil
Organic content	Min. 10% by dry weight (ASTM D 2974)		
Mulch	shredded hardwood		aged 6 mor
Pea gravel diaphragm	pea gravel: ASTM-D-448	NO. 8 OR NO. 9 (1/8" TO 3/8")	
Curtain drain	ornamental stone: washed cobbles	stone: 2" to 5"	
Geotextile		n/a	PE Type 1
Gravel (underdrains and infiltration berms)	AASHTO M-43	NO. 57 OR NO. 6 AGGREGATE (3/8" to 3/4")	promotive transmission
Underdrain piping	F 758, Type PS 28 or AASHTO M-278	4" to 6" rigid schedule 40 PVC or SDR35	Slotted or p row; minim underneath galvanized
Poured in place concrete (if required)	MSHA Mix No. 3; f' <sub>o</sub> = 3500 psi @ 28 days, normal weight, air-entrained; reinforcing to meet ASTM-615-60	n/a	on-site testi 28 day strei or pre-cast) standards r professiona - design to [H-10 or H- pressures);
Sand	AASHTO-M-6 or ASTM-C-33	0.02" to 0.04"	Sand substi #10 are not

							The second se	
ГОР	BOTTOM	BOTTOM	INV	ADDITIONAL	INV	SURFACE	APPROX	The second s
NT SOIL	PLANT SOIL	PEA GRAVEL	PIPE (1)	STONE	STONE	AREA	DIM	
С	D	E	F	*	G	SF		
95.45	393.45	393.12	392.37	2.70	389.67	1000	SEE PLAN	
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FACILITY ONSITE WILL BE OWNED AND MAINTAINED BY HOWARD COUNTY



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	N0.	REVISION
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Appendix B.4.	Construction	Specifications	for	Environmental	Site De	sign	Practices	ļ
	1280-1099-1200-1200-1200-1200-1200-1200-120						123-00-21000-000-2000	

440           455           456           457           458           459	2 Landscape Infiltration- Notes         plantings are site-specific         USDA soil types loamy sand or sandy loam; clay content < 5%         aged 6 months, minimum; no pine or wood chips         aged 6 months, minimum; no pine or wood chips         PE Type 1 nonwoven         Slotted or perforated pipe; 3/8" perf. @ 6" on center, 4 holes per row, minimum of 3" of gravel over pipes; not necessary underneath pipes. Perforated pipe shall be wrapped with ¼-inch galvanized hardware cloth         on-site testing of poured-in-place concrete required:         28 day strength and slump test; all concrete design (cast-in-place or pre-cast) not using previously approved State or local standards requires design drawings sealed and approved by a professional structural engineer licensed in the State of Maryland - design to include meeting ACI Code 350.R/89; vertical loading [H-10 or H-20]; allowable horizontal loading (based on soil pressures); and analysis of potential cracking Sand substitutions such as Diabase and Graystone (AASHTO) #10 are not acceptable. No calcium carbonated or dolomitic sand substitutions are acceptable. No "rock dust" can be used for sand.	<ol> <li>ANNUAL MARTENANCE OF PLANT MARENAL, MULCH LVART AND SOL LATER IS BROUKED, MANTENANCE OF MALENA DATER MATENIA, SHAL ES CARTASO TRO ISSING MOI INSCI MERIATION AND MANTENANCE WILL ADDRESS DAVA LATERA, AND PRANKA, COEPHALE READ/CARINE INSTINCT IN UNITS IN LIGHT BETACHARMS. 2000 MARTANO SOLVANTER, SHALE BEDRUCK, COEPHALE READ/CARINER, INTERNE IS WITTEN OF THE OLDWARKS, 2000 MARTANO SOLVANTER, SHALE BEDRUCK, ADDRESS VERTADIA CONSIDERED BEYOND TRATENT, TRATANON OF ALL DISLOFEDTION MIL INCLUDE BEMOAL OF DEVA AND DISLASSO VERTADIA CONSIDERED BEYOND TRATENT, TRATANON OF ALL DISLASED TREES AND SHRUES AND PREVIOUS OF THAT OF ALL DECTOR VIEW OF MARENT, TRATANON OF ALL DISLASED TREES AND SHRUES AND TRATENCENTRI OF ALL DISCOVERD EACH SPRING, REVOVE PREVIOUS MULCH LIVER BEFORE APPLYING MEM LATER CARE EVERY 2 TO 3 YRANS.</li> <li>MULCH SMILL DE INSPECTED DACH SPRING, REVOVE PREVIOUS MULCH LIVER BEFORE APPLYING MEM LATER CARE EVERY 2 TO 3 YRANS.</li> <li>MULCH SMILL DE INSPECTED DACH SPRING, REVOVE PREVIOUS MULCH LIVER BEFORE APPLYING MEM LATER CARE EVERY 3 TO 3 YRANS.</li> <li>MULCH SMILL DE INSPECTED DACH SPRING, REVOVE PREVIOUS MULCH LIVER BEFORE APPLYING MEM LATER CARE EVERY 3 TO STRUCT DE ADDRESSED ON AN AS REEDED BASIS WITH A MINIMAM OF ONCE PER MONTH AND AFTER HEAVY STORM EVENTS.</li> </ol>
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OPERATION AND MAINTENANCE SCHEDULE FOR MICROBIORETENTION AREAS