

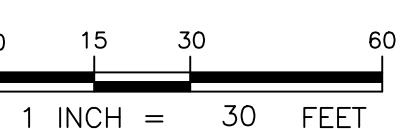
STRUCTURE TABLE

ID	LOCATION	TOP ELEV.	THROAT ELEV.	INVERT. ELEV.	DETAIL	NOTES
I-1	N: 632,258.20 E: 1,495,719.68	7.20	6.37	PR. 24" HDPE OUT = 3.00	HARFORD CO. STANDARD Y-1 INLET	OPENING ON 1 SIDE (EAST)
0-1	N: 632,248.12 E: 1,495,685.11	-	-	PR. 24" HDPE IN = 1.84		

1. HDPE PIPE SHALL BE ADS HP STORM DUAL WALL PP PIPE OR APPROVED EQUIVALENT.

PLAN VIEW

SCALE: 1" = 30'

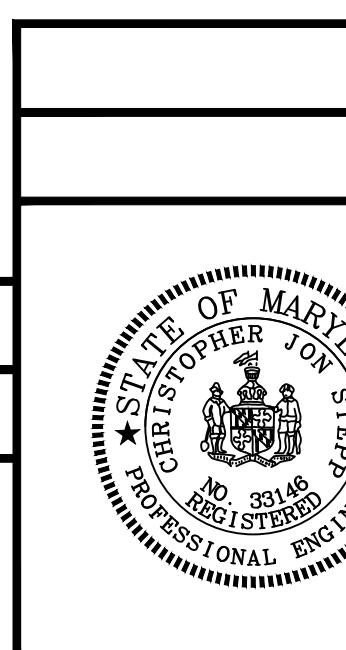


BILLING NO. 97130

EG-SWMENG-000106-2023

PROFESSIONAL CERTIFICATION

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THE STATE OF MARYLAND. LICENSE NO. 33146, EXPIRATION DATE: 01/14/2025.

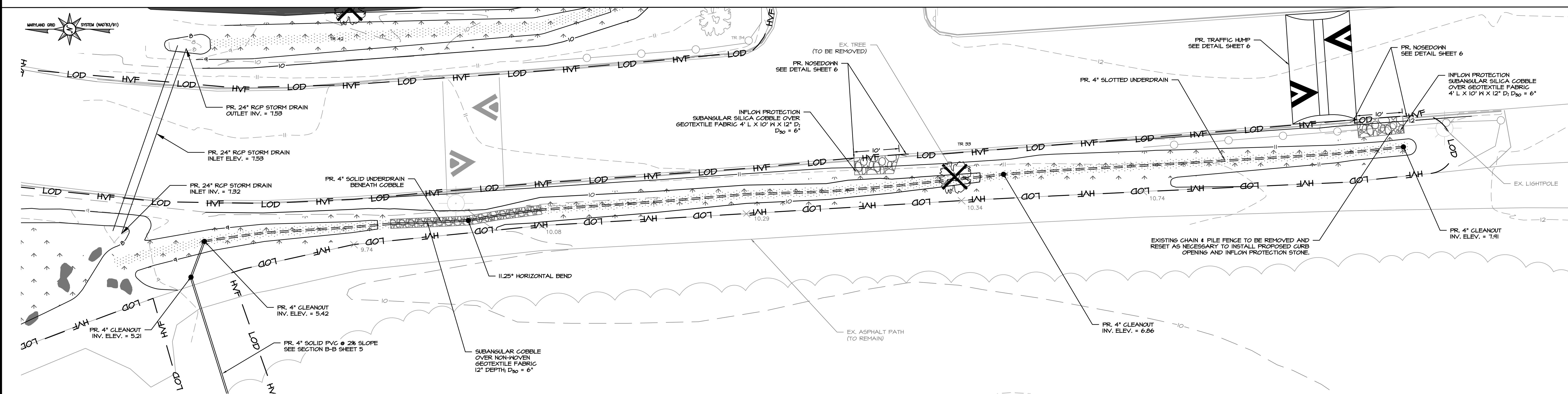
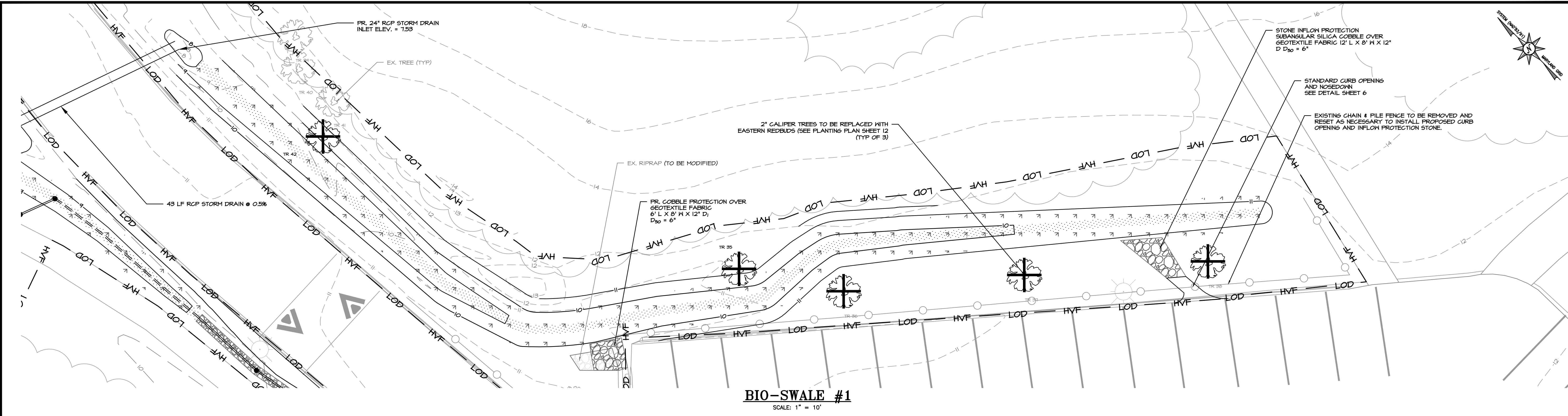


REVISIONS

HARFORD COUNTY, MARYLAND

MARINER POINT PARK STORMWATER MANAGEMENT IMPROVEMENTS SITE PLAN

DRAWN BY : JWS	SCALE : 1" = 30'
DESIGNED BY : MB/JWS	DATE : 7/2/2024
REVIEWED BY : MB	
DRAWING NO.	SHEET NO.



FINAL DESIGN PLANS

HARFORD COUNTY, MARYLAND

MARINER POINT PARK
STORMWATER MANAGEMENT IMPROVEMENTS
BIO-SWALES 1 & 2 PLAN

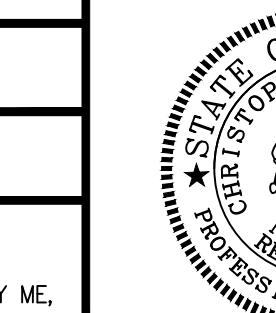
REVISIONS		
DRAWN BY : JWS	DESIGNED BY : MB/JWS	SCALE : 1" = 10'
PROFESSIONAL CERTIFICATION	REVIEWED BY : MB	DATE : 7/2/2024
DRAFTER : MB		
DRAWING NO.	SHEET NO.	4 OF 12



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0 5 10 20
1 INCH = 10 FEET

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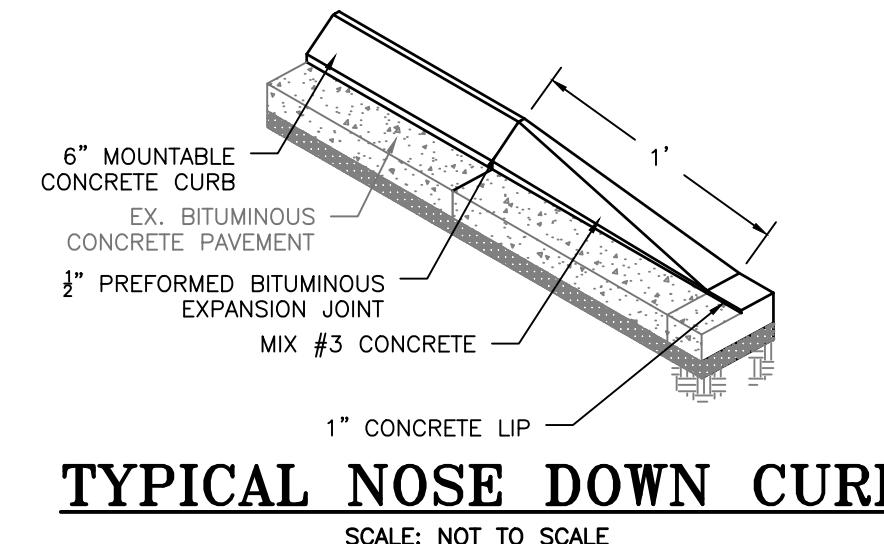
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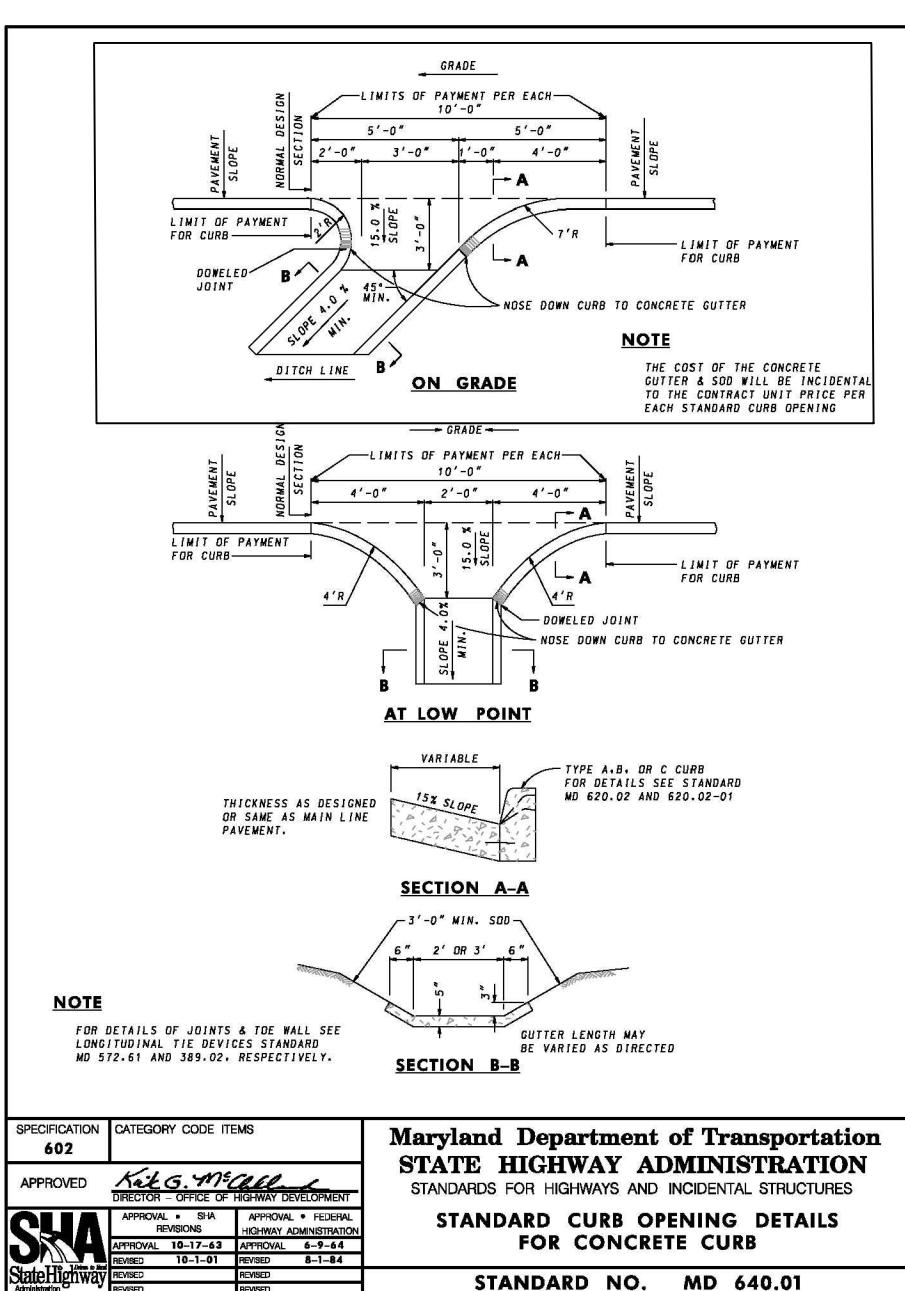
**STORMWATER MANAGEMENT BMPS
MATERIAL SPECIFICATION**

MATERIAL	SPECIFICATION	SIZE	NOTES
BIORETENTION MEDIA/PLANTING SOIL (BIORETENTION, BIOSWALES)	LOAMY SAND (60 - 65%) & COMPOST (35 - 40%) OR SANDY LOAM (30%), COARSE SAND (30%) & COMPOST (40%)		USDA SOIL TYPES LOAMY SAND OR SANDY LOAM; CLAY CONTENT <5% ORGANIC CONTENT > 10% PH RANGE: 5.5 - 7.0
BRIDGING LAYER STONE (BIORETENTION, BIOSWALES)	PEA GRAVEL: ASTM-D-448	6" TO 8" (NO. 8 OR NO. 9)	
GEOTEXTILE (BIORETENTION, BIO-SWALES, COBBLE)	GRAB STRENGTH: 250 LB (ASTM D4632) PUNCTURE STRENGTH: 90 LB (ASTM D4833) PERMITTIVITY: 0.20 SEC ⁻¹ (ASTM D4491) TRAPEZOID TEAR STRENGTH: 90 LB (ASTM D4533)	APPARENT OPENING SIZE, MAX: 0.30 MM (ASTM D4751)	NON-WOVEN GEOTEXTILE SHALL UNDERLAY ALL ROCK-SOIL INTERFACES
GRAVEL (UNDERDRAINS, BIO-SWALES BIORETENTION, INFILTRATION BERM, ENHANCED FILTER RESERVOIR)	AASHTO M-43	0.375" (NO. 57)	MINIMUM 3" OF GRAVEL OVER & UNDER PIPES
UNDERDRAIN PIPING (BIORETENTION, BIOSWALES)	F 758, TYPE PS 28 OR AASHTO M-278	RIGID SCH 40 PVC	SMOOTH INNER WALLS; IF PERFORATED, PERFORATION SHALL BE 3/8" DIA. SPACED 6" O.C. HORIZONTALLY. ROWS OF HOLES SPACED 6" O.C. PERFORATED PIPE SHALL BE WRAPPED WITH 1/4-INCH GALVANIZED HARDWARE CLOTH
SUITABLE FILL	SOIL WITH A MINIMUM MAXIMUM DRY DENSITY OF 100 P.C.F PER T 180	N/A	HOMOGENOUS MIXTURE FREE FROM VEGETATIVE MATTER, ORGANIC MATTER SLUDGE, GRIT, TRASH, MUCK, ROOTS, LOG, STUMPS OR FROZEN MATERIAL. NO ROCKS EXCEEDING 6" IN DIA.
COBBLE PROTECTION	SUBANGULAR ROUNDED ROCK OF THE APPROPRIATE COLOR (DARK BROWN, TAN, GRAY) FROM AN APPROVED SOURCE	D ₅₀ SHALL BE EQUAL TO THE GRADATION SPECIFIED ON THE PLANS	NON-WOVEN GEOTEXTILE SHALL UNDERLAY ALL ROCK SOIL INTERFACES

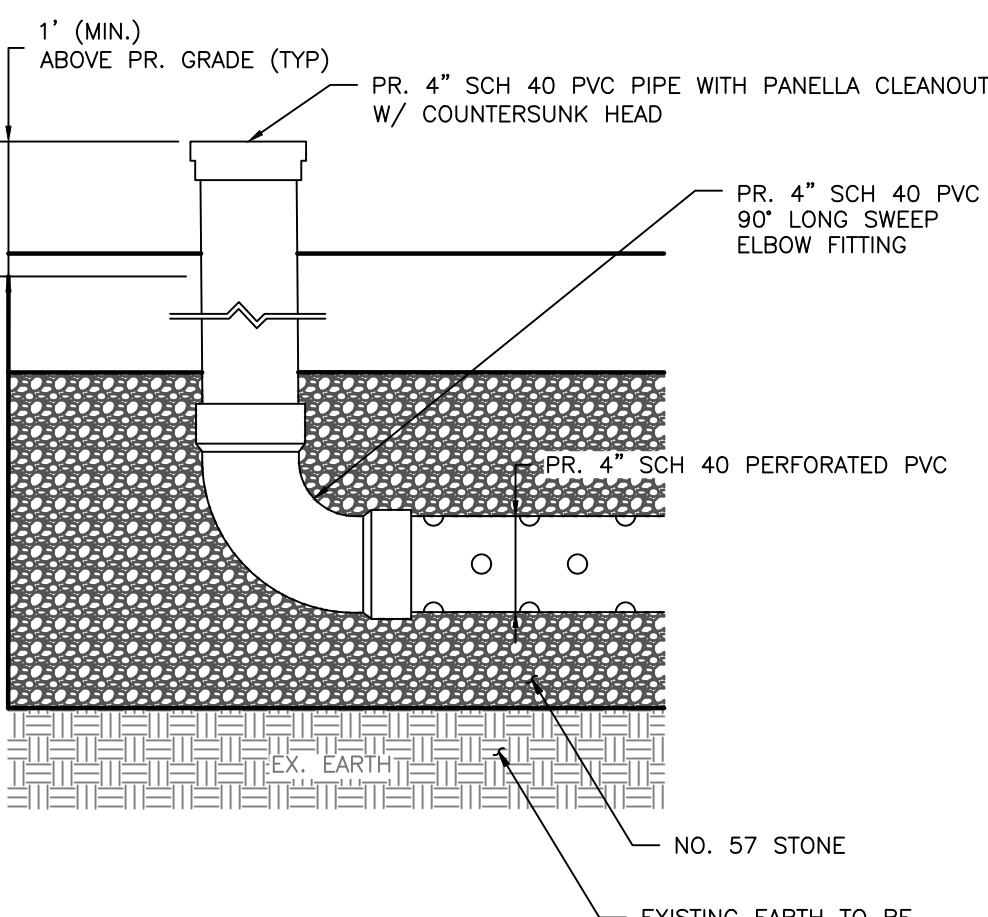


TYPICAL NOSE DOWN CURB

SCALE: NOT TO SCALE

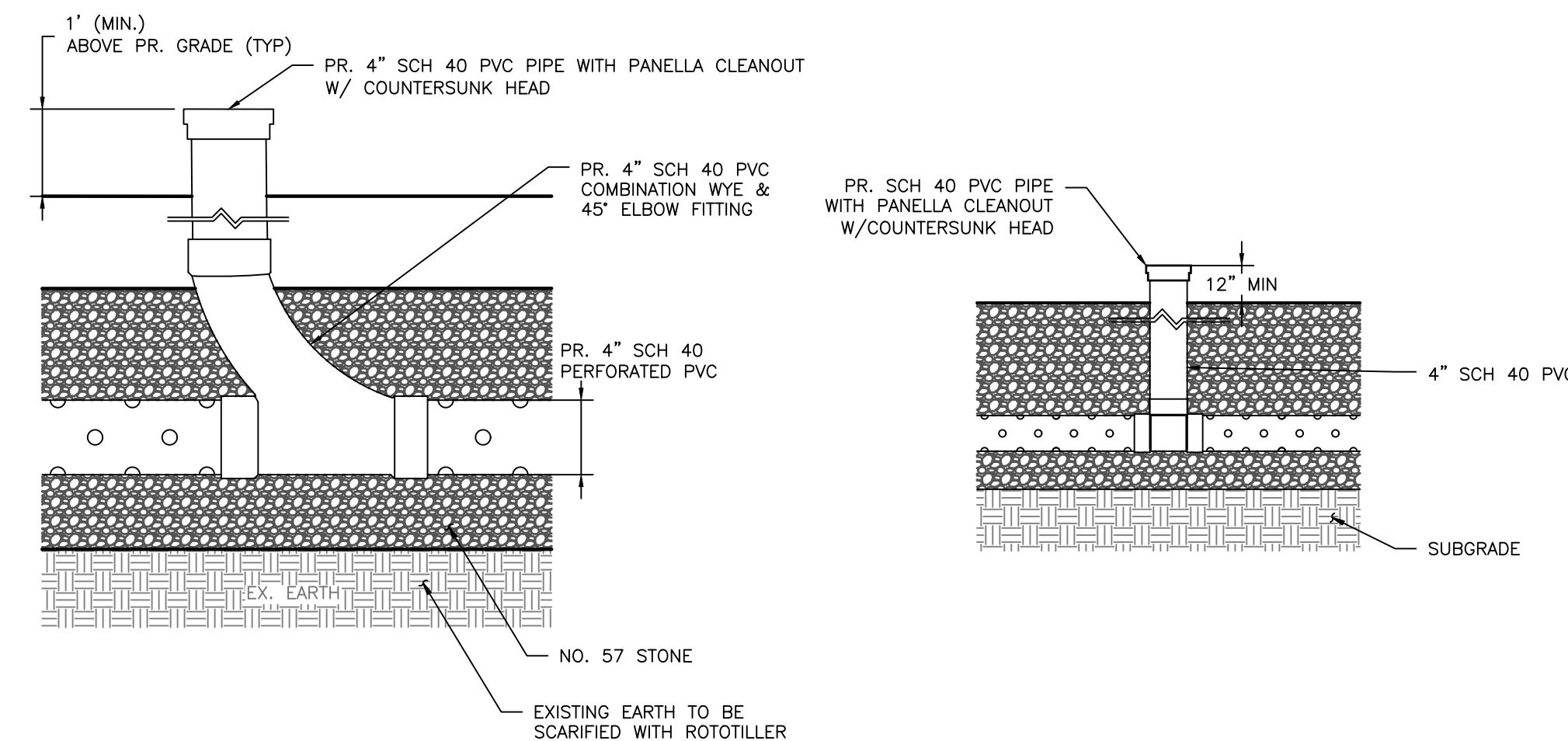


STANDARD CURB OPENING DETAILS FOR CONCRETE CURB
STANDARD NO. MD 640.01



**END SECTION
CLEANOUT DETAIL**

SCALE: NOT TO SCALE

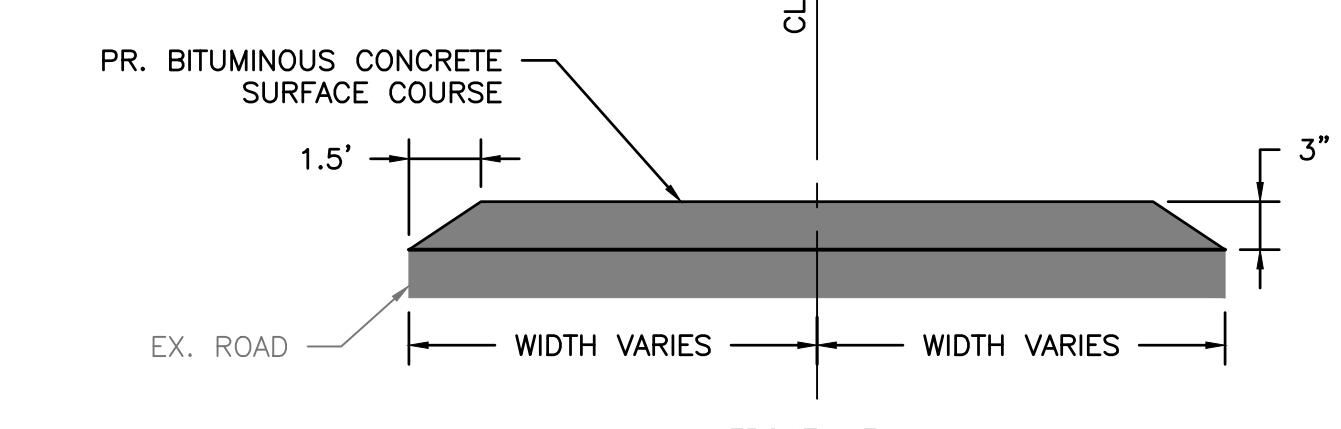
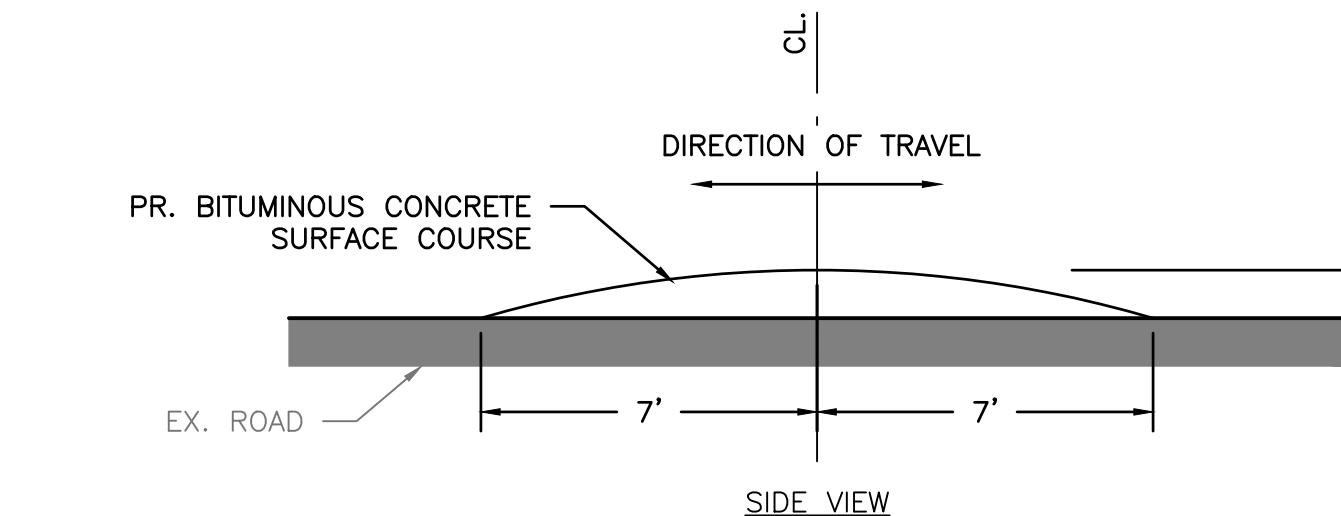


**MID SECTION
CLEANOUT DETAIL**

SCALE: NOT TO SCALE

**OBSERVATION WELL/
CLEANOUT DETAIL**

SCALE: NOT TO SCALE



ROAD HUMP DETAIL

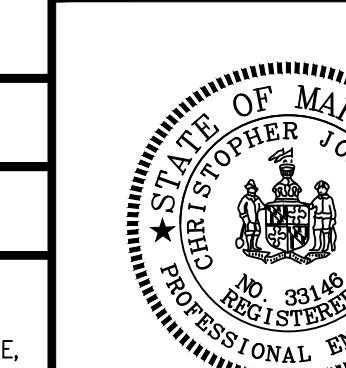
SCALE: NOT TO SCALE

FINAL DESIGN PLANS

HARFORD COUNTY, MARYLAND

**MARINER POINT PARK
STORMWATER MANAGEMENT IMPROVEMENTS
DETAILS**

REVISIONS	
DRAWN BY : JWS	SCALE : AS SHOWN
DESIGNED BY : MB/JWS	DATE : 7/2/2024
REVIEWED BY : MB	
DRAWING NO.	SHEET NO.
	6 OF 12



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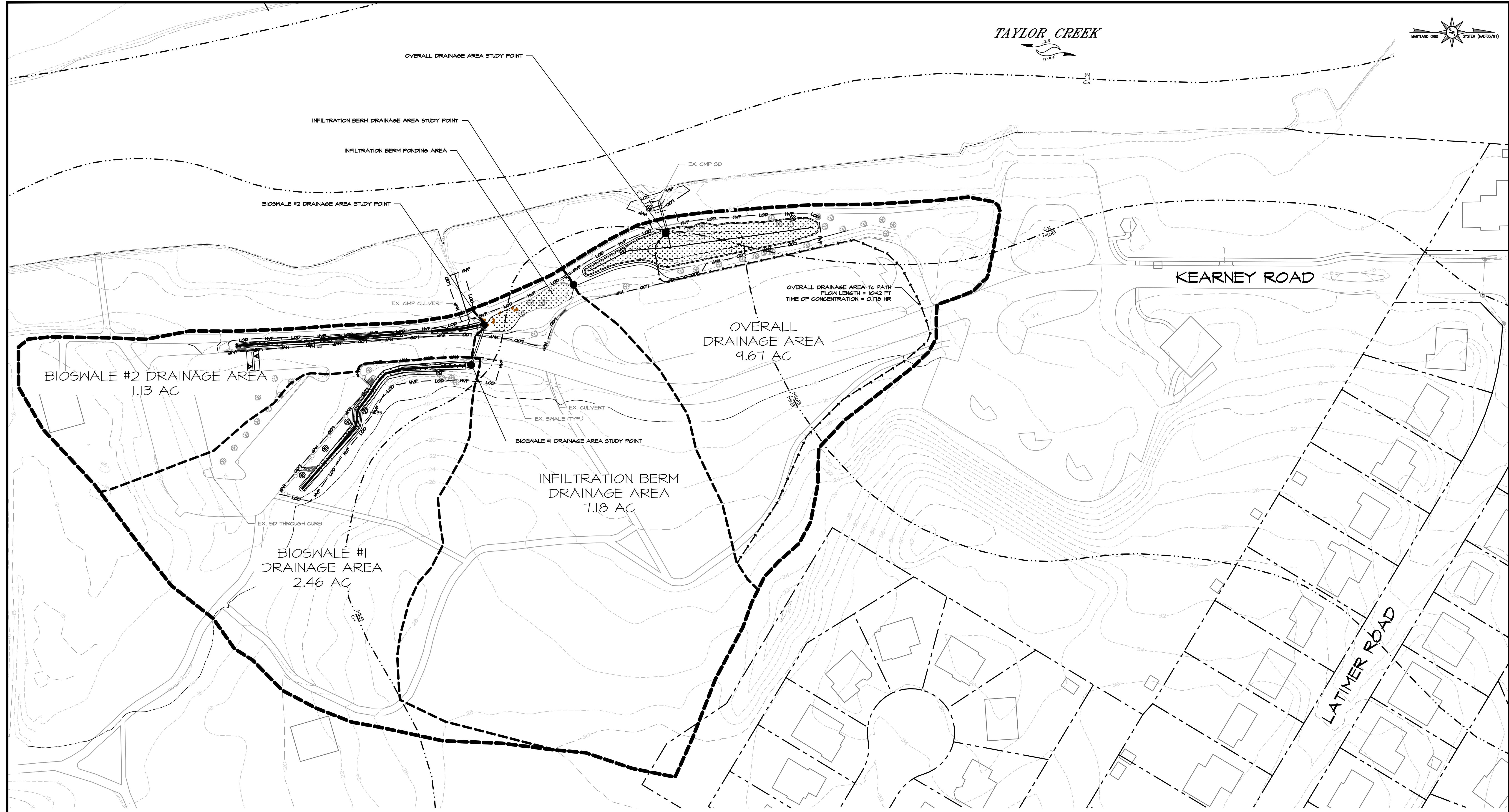
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BILLING NO. 97130

EG-SWMENG-000106-2023

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MARYLAND GRID SYSTEM (NAD83/91)

BID No.: 25-078

HOG DWG ID:

SCALE : 1" = 50'
1 INCH = 50 FEET

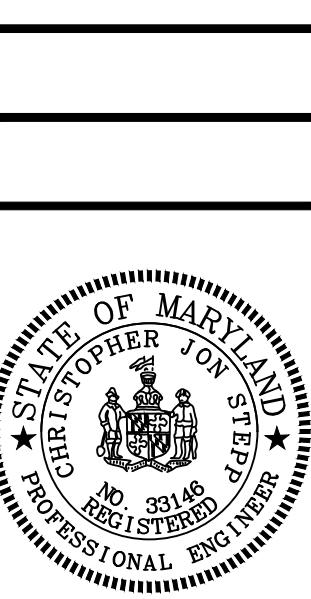
7 OF 12

PLAN VIEW

0 25 50 100
1 INCH = 50 FEET

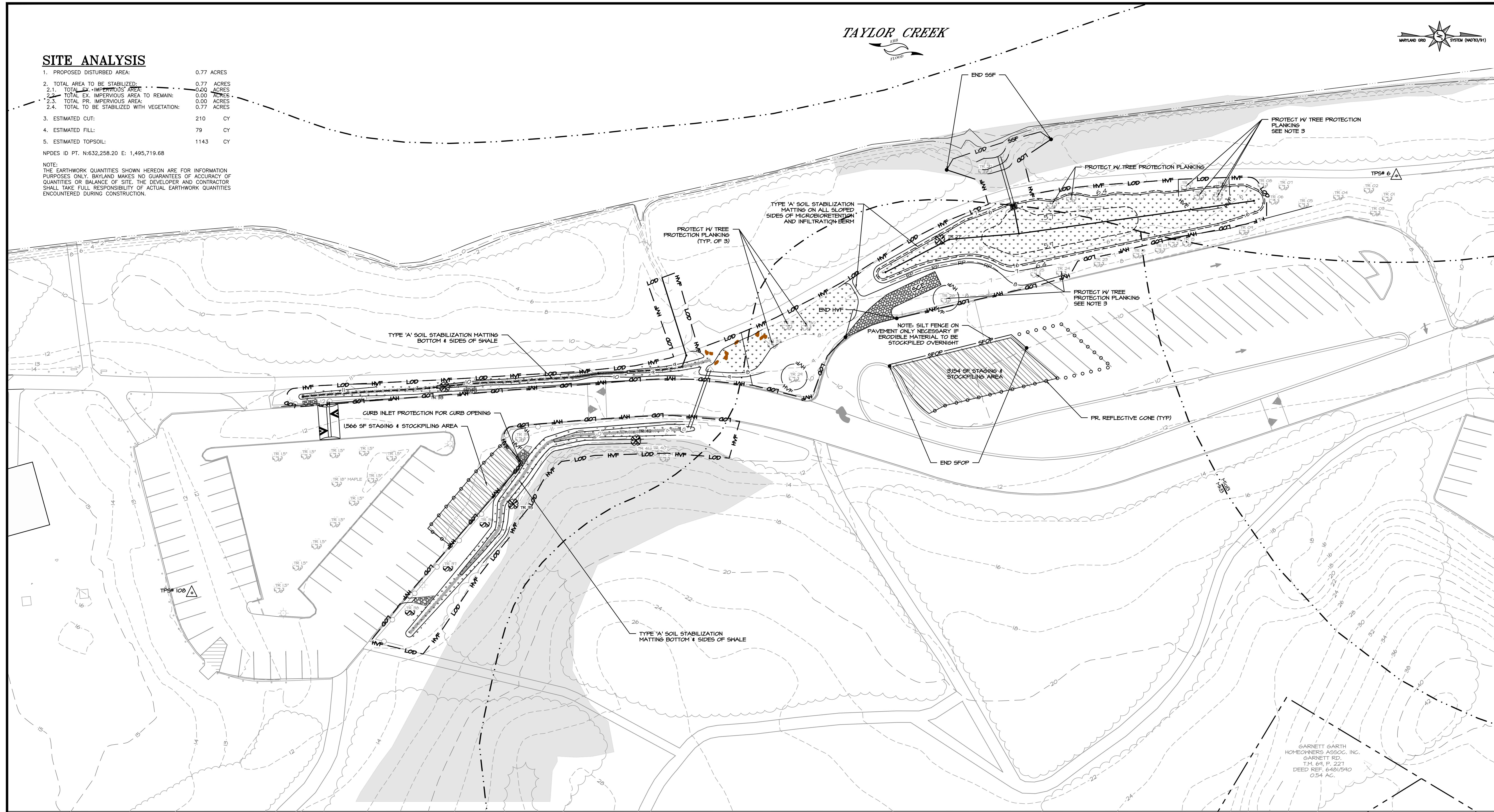
SOILS CHART

SYMBOL	SOIL	HSG	K-FACTOR
Cx	CUT AND FILL LAND	ASSUME D	N/A
MkB	MATAPPEAK SILT LOAM, 2 TO 5% SLOPES	C	0.49
MloB	MATAPPEAK SILT LOAM, 2 TO 5% SLOPES, NORTHERN COASTAL PLAIN	C	0.49



REVISIONS

HARFORD COUNTY, MARYLAND		MARINER POINT PARK STORMWATER MANAGEMENT IMPROVEMENTS DRAINAGE AREA MAP	
DRAWN BY : JWS	DESIGNED BY : MB/JWS	SCALE : 1" = 50'	DATE : 7/2/2024
PROFESSIONAL CERTIFICATION	PROFESSIONAL CERTIFICATION	PROFESSIONAL CERTIFICATION	PROFESSIONAL CERTIFICATION
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DRAWING NO.		SHEET NO.	7 OF 12



SEDIMENT CONTROL LEGEND

LIMIT OF DISTURBANCE	LOD
LIMIT OF DISTURBANCE/ HIGH VISIBILITY FENCE	LOD - HVF
LIMIT OF DISTURBANCE/ SUPER SILT FENCE	LOD - SSF
STAGING & STOCKPILING AREA	STRIP
REFLECTIVE CONE	○
SILT FENCE ON PAVEMENT	SFOP
STABILIZED CONSTRUCTION ENTRANCE	██████████

SUMMARY OF ESC QUANTITIES

SUPER SILT FENCE: 82 LF
 HIGH VISIBILITY FENCE / TREE PROTECTION FENCE: 2,511 LF
 SILT FENCE ON PAVEMENT: 102 LF

NOTE: THIS SUMMARY OF SEDIMENT CONTROL QUANTITIES IS FOR USE BY THE HARFORD COUNTY SOIL CONSERVATION DISTRICT ONLY. THIS SUMMARY NOT INTENDED BE USED BY THE CONTRACTOR FOR ESTIMATING AND BIDDING PURPOSES. ALL AREAS WITHIN LOD SHALL BE PROTECTED UNLESS OTHERWISE NOTED ON PLANS.

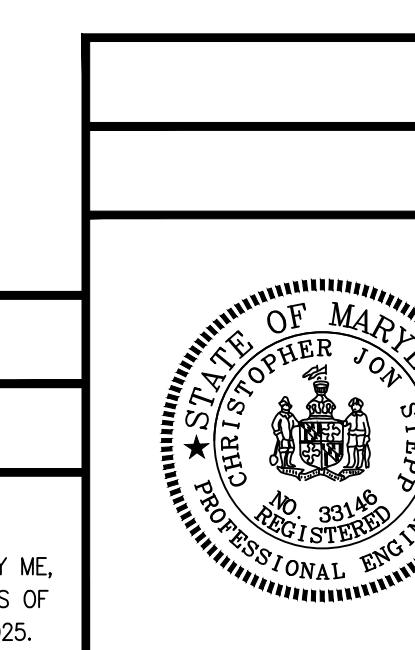
NOTES

1. NO MORE AREA SHALL BE DISTURBED THAN CAN BE STABILIZED BY THE END OF WORKDAY.
2. STABILIZATION FENCING SHALL BE INSTALLED FOR ALL SWALES, BOTTOM AND SIDES, AND ON ALL SLOPED SIDES OF MICRO-BIOPETENTION AND INFILTRATION BERM.
3. NO HEAVY EQUIPMENT SHALL BE USED NEAR EXISTING TREES, FINE GRADE BY HAND AS NECESSARY TO AVOID DAMAGING CRITICAL ROOT ZONE.
4. ANY DISTURBED AREA OUTSIDE OF PLANNED PLANTING AREA AS SHOWN ON SHEET ###### SHALL BE STABILIZED WITH TURFGRASS IN ACCORDANCE WITH THE SPECIFICATIONS.

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PLAN VIEW

SCALE: 1" = 30'
 0 10 20 40
 1 INCH = 20 FEET



REVISIONS

DRAWN BY : JWS	SCALE : 1" = 30'
DESIGNED BY : MB/JWS	DATE : 7/2/2024
REVIEWED BY : MB	
DRAWING NO.	SHEET NO.
	8 OF 12

FINAL DESIGN PLANS

HARFORD COUNTY, MARYLAND

MARINER POINT PARK STORMWATER MANAGEMENT IMPROVEMENTS EROSION & SEDIMENT CONTROL PLAN

MARYLAND GRID SYSTEM (NAD83/91)

BLD NO.: 25-78

HGS DWG ID: 20240702

STANDARDS AND SPECIFICATIONS FOR SOIL PREPARATION, TOPSOILING, AND SOIL AMENDMENTS

A. SOIL PREPARATION

- 1. TEMPORARY STABILIZATION
 - a. SEEDED PREPARATION CONSISTS OF LOOSENING SOIL TO A DEPTH OF 3 TO 5 INCHES BY MEANS OF SUITABLE AGRICULTURAL OR CONSTRUCTION EQUIPMENT, SUCH AS DISC HARROWS OR CHISEL PLOWS OR RIPPERS MOUNTED ON CONSTRUCTION EQUIPMENT. AFTER THE SOIL IS LOOSEND, IT MUST NOT BE ROLLED OR DRAGGED SMOOTH BUT LEFT IN THE ROUGHENED CONDITION. SLOPES, 3:1 OR FLATTER ARE TO BE TRACKED WITH RIDGES RUNNING PARALLEL TO THE CONTOUR OF THE SOIL.
 - b. APPLY FERTILIZER AND LIME AS PRESCRIBED ON THE PLANS.
 - c. INCORPORATE LIME AND FERTILIZER INTO THE TOP 3 TO 5 INCHES OF SOIL BY DISKING OR OTHER SUITABLE MEANS.

B. PERMANENT STABILIZATION

- a. A SOIL TEST IS REQUIRED FOR ANY EARTH DISTURBANCE OF 5 ACRES OR MORE. THE MINIMUM SOIL CONDITIONS REQUIRED FOR PERMANENT VEGETATIVE ESTABLISHMENT ARE:
 - i. SOIL PH BETWEEN 6.0 AND 7.0.
 - ii. SOLUBLE SALTS LESS THAN 500 PARTS PER MILLION (PPM).
 - iii. SOIL CONTAINS LESS THAN 40 PERCENT CLAY BUT ENOUGH FINE GRAINED MATERIAL (GREATER THAN 30 PERCENT SILT PLUS CLAY) TO PROVIDE THE CAPACITY TO HOLD A MODERATE AMOUNT OF MOISTURE. AN EXCEPTION: IF LOVEGRASS WILL BE PLANTED, THEN A SANDY SOIL (LESS THAN 30 PERCENT SILT PLUS CLAY) WOULD BE ACCEPTABLE.
 - iv. SOIL CONTAINS 1.5 PERCENT MINIMUM ORGANIC MATTER BY WEIGHT.
 - v. SOIL CONTAINS SUFFICIENT PORE SPACE TO PERMIT ADEQUATE ROOT PENETRATION.
 - vi. APPLICATION OF AMENDMENTS OR TOPSOIL IS REQUIRED IF ON-SITE SOILS DO NOT MEET THE ABOVE CONDITIONS.
 - vi. GRADED AREAS MUST BE MAINTAINED IN A TRUE AND EVEN GRADE AS SPECIFIED ON THE APPROVED PLAN, THEN SCARIFIED OR OTHERWISE LOOSEND TO A DEPTH OF 3 TO 5 INCHES.
 - vi. APPLY SOIL AMENDMENTS AS SPECIFIED ON THE APPROVED PLAN OR AS INDICATED BY THE RESULTS OF A SOIL TEST.
 - vii. MIX SOIL AMENDMENTS INTO THE TOP 3 TO 5 INCHES OF SOIL BY DISKING OR OTHER SUITABLE MEANS. RAKE LAWN AREAS TO SMOOTH THE SURFACE. REMOVE LARGE OBJECTS LIKE STONES AND BRANCHES, AND READY THE AREA FOR SEED APPLICATION. LOOSEN SURFACE SOIL BY DRAGGING WITH A HEAVY CHAIN OR OTHER EQUIPMENT TO ADEQUATE DEPTH. THE SURFACE WHERE SITE CONDITIONS WILL NOT PERMIT ADEQUATE PRACTICE SHOULD BE ROLLED, PULLED WITH A TRACTOR EQUIPMENT LEAVING THE SOIL IN AN IRREGULAR CONDITION WITH RIDGES, RUNNERS PARALLEL TO THE CONTOUR OF THE SLOPE. LEAVE THE TOP 1 TO 3 INCHES OF SOIL LOOSE AND FRIABLE. SEEDED LOOSENING MAY BE UNNECESSARY ON NEWLY DISTURBED AREAS.

B. TOPSOILING

- 1. TOPSOIL IS PLACED OVER PREPARED SUBSOIL PRIOR TO ESTABLISHMENT OF PERMANENT VEGETATION. THE PURPOSE IS TO PROVIDE A SUITABLE SOIL MEDIUM FOR VEGETATIVE GROWTH. SOILS OF CONCERN HAVE LOW MOISTURE CONTENT, LOW NUTRIENT LEVELS, LOW PH, MATERIALS TOXIC TO PLANTS, AND/OR UNACCEPTABLE SOIL GRADATION.

2. TOPSOIL SALVAGED FROM AN EXISTING SITE MAY BE USED PROVIDED IT MEETS THE STANDARDS AS SET FORTH IN THESE SPECIFICATIONS. TYPICALLY, THE DEPTH OF TOPSOIL TO BE SALVAGED FOR A GIVEN SOIL TYPE CAN BE FOUND IN THE REPRESENTATIVE SOIL PROFILE SECTION IN THE SOIL SURVEY PUBLISHED BY USDA-NRCS.

C. TOPSOILING IS LIMITED TO AREAS HAVING 2:1 OR FLATTER SLOPES WHERE:

- a. THE TEXTURE OF THE EXPOSED SUBSOIL/PARENT MATERIAL IS NOT ADEQUATE TO PRODUCE VEGETATIVE GROWTH.
- b. THE SOIL MATERIAL IS SO SHALLOW THAT THE ROOTING ZONE IS NOT DEEP ENOUGH TO SUPPORT PLANTS OR FURNISH CONTINUING SUPPLIES OF MOISTURE AND PLANT NUTRIENTS.
- c. THE ORIGINAL SOIL TO BE VEGETATED CONTAINS MATERIAL TOXIC TO PLANT GROWTH.
- d. THE SOIL IS SO ACIDIC THAT TREATMENT WITH LIMESTONE IS NOT FEASIBLE.

D. AREAS HAVING SLOPES STEEPER THAN 2:1 REQUIRE SPECIAL CONSIDERATION AND DESIGN.

E. TOPSOIL SPECIFICATIONS: SOIL TO BE USED AS TOPSOIL MUST MEET THE FOLLOWING CRITERIA:

- a. TOPSOIL MUST BE A LOAM, SANDY LOAM, CLAY LOAM, SILTY LOAM, SANDY CLAY LOAM, OR LOAMY SAND. OTHER SOILS MAY BE USED, AS RECOMMENDED BY AN AGRONOMIST, SOIL SCIENTIST, AND APPROVED BY THE APPROVED AUTHORITY. APPROVED SOILS MUST NOT BE MIXED WITH MATERIALS OF CONTRASTING TEXTURED SUBSOILS AND MUST CONTAIN LESS THAN 10 PERCENT BY VOLUME OF CINDERS, STONES, SLAG, COARSE FRAGMENTS, GRAVEL, STICKS, ROOTS, TRASH, OR OTHER MATERIALS LARGER THAN 1/2 INCHES IN DIAMETER.
- b. TOPSOIL MUST BE FREE OF NOXIOUS PLANTS OR PLANT PARTS SUCH AS BERMUDA GRASS, QUACK GRASS, JOHNSON GRASS, NUT SEDGE, POISON IVY, THISTLE, OR OTHERS AS SPECIFIED.
- c. TOPSOIL SUBSTITUTES OR AMENDMENTS, AS RECOMMENDED BY A QUALIFIED AGRONOMIST OR SOIL SCIENTIST AND APPROVED BY THE APPROPRIATE APPROVAL AUTHORITY, MAY BE USED IN LIEU OF NATURAL TOPSOIL.

F. TOPSOIL APPLICATION

- a. EROSION AND SEDIMENT CONTROL PRACTICES MUST BE MAINTAINED WHEN APPLYING TOPSOIL.
- b. UNIFORMLY DISTRIBUTE TOPSOIL IN A 5 TO 8 INCH LAYER AND LIGHTLY COMPACT TO A MINIMUM THICKNESS OF 4 INCHES. SPREADING IS TO BE PERFORMED IN SUCH A MANNER THAT SODDING OR SODDING CRACKS ARE AVOIDED. SOIL PREPARATION AND SODDING OR SODDING CRACKS, ANY IRREGULARITIES IN THE SURFACE RESULTING FROM TOPSOILING OR OTHER OPERATIONS, MUST BE CORRECTED IN ORDER TO PREVENT THE FORMATION OF DEPRESSIONS OR WATER POCKETS.
- c. TOPSOIL MUST NOT BE PLACED IF THE TOPSOIL OR SUBSOIL IS IN A FROZEN OR MUDDY CONDITION, WHEN THE SUBSOIL IS EXCESSIVELY WET OR IN A CONDITION THAT MAY OTHERWISE BE DETERIMENTAL TO PROPER GRADING AND SEEDED PREPARATION.

G. SOIL AMENDMENTS (FERTILIZER AND LIME SPECIFICATIONS)

- 1. SOIL TESTS MUST BE DETERMINED 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.

- 2. FERTILIZERS MUST BE UNIFORM IN COMPOSITION, FREE FLOWING AND SUITABLE FOR ACCURATE APPLICATION BY APPROPRIATE EQUIPMENT. MANURE MAY BE SUBSTITUTED FOR FERTILIZER WITH PRIOR APPROVAL FROM THE APPROPRIATE APPROVAL AUTHORITY. FERTILIZERS MUST ALL BE DELIVERED TO THE SITE FULLY LABELED ACCORDING TO THE APPLICABLE LAWS AND MUST BEAR THE NAME, TRADE NAME OR TRADEMARK AND WARRANTY OF THE PRODUCER.

- 3. LIMESTONES MUST BE GROUND LIMESTONE (HYDRATED OR BURNED LIME) MAY BE SUBSTITUTED, EXCEPT WHEN HYDROSEEDING, WHICH CONTAINS AT LEAST 50 PERCENT TOTAL OXIDES (CALCIUM OXIDE PLUS MAGNESIUM OXIDE). LIMESTONE MUST BE GROUND TO SUCH FINENESS THAT AT LEAST 50 PERCENT WILL PASS THROUGH A #100 MESH SIEVE AND 98 TO 100 PERCENT WILL PASS THROUGH A #20 MESH SIEVE.

- 4. LIME AND FERTILIZER ARE TO BE EVENLY DISTRIBUTED AND INCORPORATED INTO THE TOP 3 TO 5 INCHES OF SOIL BY DISKING OR OTHER SUITABLE MEANS.

- 5. WHERE THE SUBSOIL IS EITHER HIGHLY ACIDIC OR COMPOSED OF HEAVY CLAYS, SPREAD GROUND LIMESTONE AT THE RATE OF 4 TO 8 TONS/ACRE (200-400 POUNDS PER 1,000 SQUARE FEET) PRIOR TO THE PLACEMENT OF TOPSOIL.

PERMANENT SEEDING SUMMARY							
HARDNESS ZONE (FROM FIGURE B.3): 7a SEED MIXTURE (FROM TABLE B.3)				FERTILIZER RATE (10-20-20)		LIME RATE	
NO.	SPECIES	APPLICATION RATE (lb/ac)	SEEDING DATES	SEEDING DEPTHS	N	P ₂ O ₅	K ₂ O
1	SWITCHGRASS CREEPING RED FESCUE BUSH CLOVER	10 10 2	2/15 - 4/30 8/15 - 10/31	1" - 4"	45 lb/ac (1.0 lb/ 1000 sf)	90 lb/ac (2.0 lb/ 1000 sf)	90 lb/ac (2.0 lb/ 1000 sf)
3	DEERTONGUE FESCUE COMMON LESPEDEZA	20 10	2/15 - 4/30 5/1 - 5/31	1" - 4"	436 lb/ac (10 lb/1000 sf)	2 tons/ac (90 lb/1000 sf)	2 tons/ac (90 lb/1000 sf)

NOTES:

1. SEEDING RATES FOR THE WARM-SEASON GRASSES ARE IN POUNDS OF PURE LIVE SEED (PLS). ACTUAL PLANTING RATES SHALL BE ADJUSTED TO REFLECT PERCENT SEED GERMINATION AND PURITY, AS TESTED. ADJUSTMENTS ARE USUALLY NOT NEEDED FOR THE COOL-SEASON GRASSES. SEEDING RATES LISTED ABOVE ARE FOR TEMPORARY SEEDINGS, WHEN PLANTED ALONE, WHEN PLANTED AS A NURSE CROP WITH PERMANENT SEED MIXES, USE 1/3 OF THE SEEDING RATE LISTED ABOVE FOR BARLEY, OATS, AND WHEAT. FOR SMALLER-SEEDED GRASSES (ANNUAL RYEGRASS, PEARL MILLET, FOXTAIL MILLET), DO NOT EXCEED MORE THAN 5% (BY WEIGHT) OF THE OVERALL PERMANENT SEEDING MIX. CEREAL RYE GENERALLY SHOULD NOT BE USED AS A NURSE CROP, UNLESS PLANTING WILL OCCUR IN VERY LATE FALL, BEYOND THE SEEDING DATES FOR OTHER TEMPORARY SEEDS. CEREAL RYE HAS ALLELOPATHIC PROPERTIES THAT INHIBIT THE GERMINATION AND GROWTH OF OTHER PLANTS, IT MUST BE USED AS A NURSE CROP, SEED AT 1/3 OF THE RATE LISTED ABOVE. OATS ARE THE RECOMMENDED NURSE CROP FOR WARM-SEASON GRASSES.
2. FOR SANDY SOILS, PLANT SEEDS AT TWICE THE DEPTH LISTED ABOVE.
3. THE PLANTING DATES LISTED ARE AVERAGES FOR EACH ZONE AND MAY REQUIRE ADJUSTMENT TO REFLECT LOCAL CONDITIONS, ESPECIALLY NEAR THE BOUNDARIES OF THE ZONE.

STANDARDS AND SPECIFICATIONS FOR SEEDING AND MULCHING

A. SEEDING

- 1. SPECIFICATIONS
 - 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 THAWs.
 - c. INCULCANTS: THE INOCULANT FOR TREATING LEGUME SEED IN THE SEED MIXTURES MUST BE A PURCHASED OR PREPARED FIXATION. INCULCANTS SPECIFIED BY THE SPECIES MUST BE INCULCANTS MAY NOT BE USED LATER THAN THE DATE INDICATED ON THE CONVENTIONAL ADD FRESH INCULCANTS 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 EFFECTIVE.
 - d. SOD OR SEED MUST NOT BE PLACED ON SOIL WHICH HAS BEEN TREATED WITH SOIL STERILANTS OR CHEMICALS USED FOR WET CONTROL UNTIL SUFFICIENT TIME HAS ELAPSED (14 DAYS MIN.) TO PERMIT DISSIPATION OF PHYTO-TOXIC MATERIALS.

B. 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 B.1, PERMANENT SEEDING TABLE B.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.
 - iii. DRILL OR CULTIPACKER SEEDING: MECHANIZED SEEDERS THAT APPLY AND COVER SEED WITH SOIL.
 - iv. CULTIPACKING SEEDERS ARE REQUIRED TO BURY THE SEED IN SUCH A FASHION AS TO PROVIDE AT LEAST 1/4 INCH OF SOIL COVERING. SEEDED MUST BE FIRM AFTER PLANTING.
 - v. APPLY SEED IN TWO DIRECTIONS, PERPENDICULAR TO EACH OTHER. APPLY HALF THE SEEDING RATE IN EACH DIRECTION.
 - vi. HYDROSEEDING: APPLY SEED UNIFORMLY WITH HYDROSEEDER (SLURRY INCLUDES SEED AND FERTILIZER).

C. MULCHING

- 1. MULCH MATERIALS (IN ORDER OF PREFERENCE)
 - a. STRAW CONSISTING OF THOROUGHLY THRESHED WHEAT, RYE, 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 STEERED STRAW MULCH IN AREAS WHERE ONE SPECIES OF GRASS IS DESIRED.
 - b. WOOD CELLULOSE FIBER (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 WCFM 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 BLOTER-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 PHYTO-TOXIC.
 - 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.

D. APPLICATION

- a. APPLY MULCH TO ALL SEDED AREAS IMMEDIATELY AFTER SEEDING.
- b. WHEN STRAW MULCH IS USED, SPREAD IT OVER ALL SEDED 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 A 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.
- 3. 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.

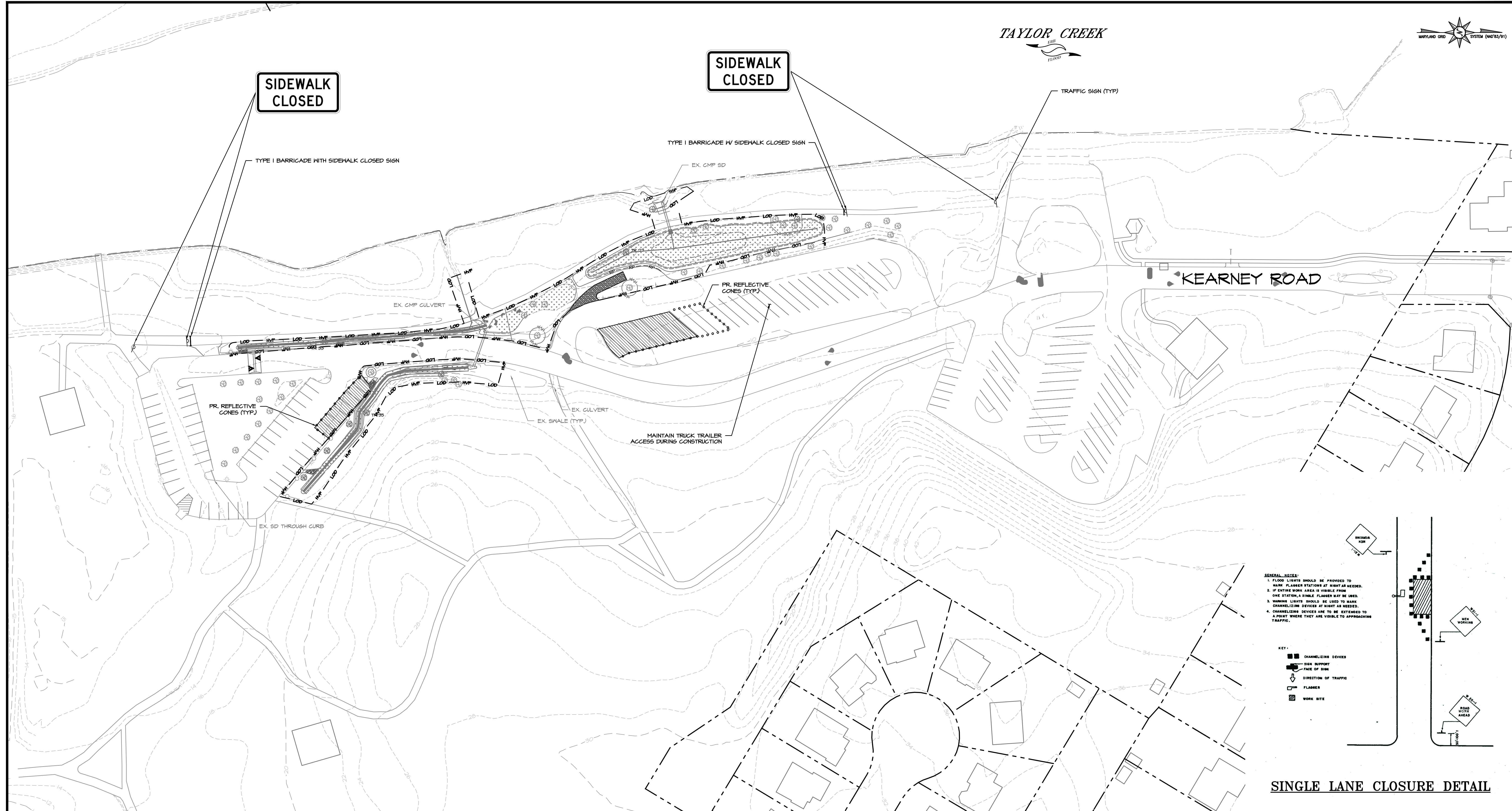
E. LIGHTWEIGHT PLASTIC NETTING

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 LONG.

F. WHERE THE SUBSOIL IS EITHER HIGHLY ACIDIC OR COMPOSED OF HEAVY CLAYS, SPREAD GROUND LIMESTONE AT THE RATE OF 4 TO 8 TONS/ACRE (200-400 POUNDS PER 1,000 SQUARE FEET) PRIOR TO THE PLACEMENT OF TOPSOIL.

SEQUENCE OF CONSTRUCTION

	DAYS
1. ESTABLISH ALL PERMITS HAVE BEEN OBTAINED. PERMITS SHALL BE DISPLAYED ON SITE AT ALL TIMES THROUGHOUT THE DURATION OF THE PROJECT.	1 DAYS
2. THE CONTRACTOR SHALL CALL "MISS UTILITY" (1-800-257-7777) A MINIMUM OF 48 HOURS IN ADVANCE OF ANY EXCAVATION TO MARK GAS, ELECTRIC, TELEPHONE, WATER AND/OR SEWER LINES.	2 DAYS
3. THE CONTRACTOR SHALL NOTIFY THE HARFORD COUNTY DEPARTMENT OF PUBLIC WORKS BUREAU OF CONSTRUCTION MANAGEMENT (410-638-3217) AT LEAST THREE (3) DAYS PRIOR TO STARTING CONSTRUCTION.	3 DAYS
4. CLEAR MINIMUM AREA NECESSARY TO INSTALL PERIMETER SEDIMENT CONTROLS MEASURES. INSTALL STAGING/STOCKPILING AREAS AND TRAFFIC CONTROL MEASURES.	1 DAYS
5. INSTALL ALL EROSION AND SEDIMENT CONTROLS APPROVAL BY THE SEDIMENT AND EROSION CONTROL INSPECTOR SHALL BE REQUIRED UPON COMPLETION OF THE INSTALLATION OF EROSION AND SEDIMENT CONTROLS AND PRIOR TO PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING. THIS WILL REQUIRE FIRST PHASE INSPECTION. OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THE INITIAL APPROVAL BY THE SEDIMENT AND EROSION CONTROL INSPECTOR IS GIVEN.	1 DAYS
6. BEGIN ROUGH EXCAV	



MARYLAND GRID
SYSTEM (NAD 83/91)

BID No.: 25-078

HCG DWG ID No.:

10 OF 12

PLAN VIEW

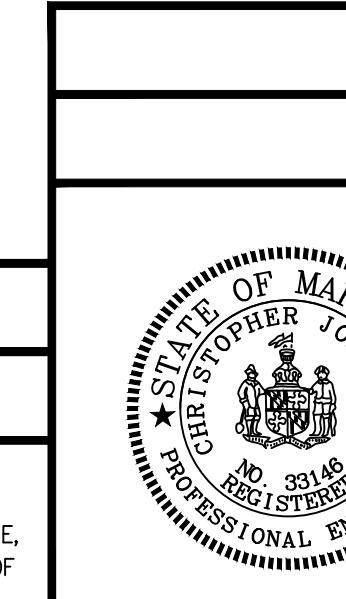
0 25 50 100
1 INCH = 50 FEET

NOTES

1. TRAFFIC CONTROL/PEDESTRIAN BARRICADES SHALL BE RELOCATED AS APPROPRIATE AS WORK PROGRESSES.



I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME,
AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF
THE STATE OF MARYLAND. LICENSE NO. 33146, EXPIRATION DATE: 01/14/2025.



HARFORD COUNTY, MARYLAND

MARINER POINT PARK STORMWATER MANAGEMENT IMPROVEMENTS TRAFFIC CONTROL PLAN

DRAWN BY : JWS	SCALE : 1" = 50'
DESIGNED BY : MB/JWS	DATE : 7/2/2024
REVIEWED BY : MB	
DRAWING NO.	SHEET NO.

PROJECT INFORMATION

1. OWNER/DEVELOPER:	HARFORD COUNTY DEPARTMENT OF PUBLIC WORKS WATERSHED PROTECTION AND RESTORATION OFFICE CONTACT: BETSY COLLINS EMAIL: BACOLLINS@HARFORDCOUNTYM.D	8. DEED REF:	1149/363
2. OWNER/DEVELOPER INFORMATION:	212 SOUTH BOND STREET, 1ST FLOOR BEL AIR, MD 21014	9. DISTRICT:	01
3. ENGINEER:	BAYLAND CONSULTANTS & DESIGNERS, INC.	10. ZONING:	R3 URBAN RESIDENTIAL
4. ENGINEER INFORMATION:	7455 NEW RIDGE ROAD, SUITE T HANOVER, MARYLAND 21076 PH: 410-694-9401	11. USE:	PARK
5. TAX MAP:	69	12. PROPERTY AREA:	37.73 ACRES
6. PARCEL:	92	13. WATERSHED:	GUNPOWDER RIVER
7. LOT:	N/A	14. DESIGNATION:	RESOURCE CONSERVATION AREA



GENERAL NOTES

- THE PURPOSE OF THIS BUFFER MITIGATION PLAN IS TO COMPLY WITH THE BUFFER MITIGATION REQUIREMENTS FOR CONSTRUCTION OF STORMWATER BEST MANAGEMENT PRACTICES (BMP) ON THE SUBJECT PROPERTY.
- THE PROPERTY SHOWN HEREON IS LOCATED WITHIN THE CHESAPEAKE BAY CRITICAL AREA.
- THE CHESAPEAKE BAY CRITICAL AREA DESIGNATION FOR THIS PROPERTY IS RCA (RESOURCE CONSERVATION AREA).
- THE PROJECT WILL RESULT IN NO NET INCREASE IN LOT COVERAGE IN THE BUFFER.
- THE PROJECT WILL RESULT IN NO NET INCREASE IN LOT COVERAGE OUTSIDE OF THE BUFFER.
- THE PROPERTY IS LOCATED AT 100 KEARNEY DRIVE, JOPPA, MD 21085 AND ACCESS TO PROPERTY FROM KEARNEY DRIVE.
- THIS PLAT WAS PREPARED WITHOUT BENEFIT OF REVIEW OF AN ABSTRACT OF TITLE.
- INDIVIDUAL TREES NOT SPECIFICALLY SHOWN TO BE REMOVED SHALL BE PRESERVED AND PROTECTED DURING CONSTRUCTION.

SEQUENCE OF IMPLEMENTATION

- CONTRACTOR SHALL ARRANGE PRE-PLANTING MEETINGS WITH COUNTY PLANNING AND ZONING DEPARTMENTS STAFF AT LEAST 5 DAYS IN ADVANCE OF DISTURBANCES OF ANY LAND ON SITE.
- REMOVE/ELIMINATE TURF GRASS AND TILL AREAS TO BE PLANTED TO A DEPTH OF 12 INCHES. DO NOT TILL AREAS INSIDE TREE PROTECTION FENCING. SCARIFY TOP 2" OF SOIL WITH HAND TOOLS PRIOR TO PLANTING IN THESE AREAS TO PROTECT CRITICAL ROOT ZONE.
- MULCH AROUND LANDSCAPING STOCK TO REDUCE COMPETITION FROM INVASIVE SPECIES.
- MONITOR THE PLANTINGS OFTEN TO REDUCE PLANT STRESS SUCH AS WATER DEFICIENCY, NUTRIENT DEFICIENCY, INVASIVE SPECIES COMPETITION, PEST DAMAGE, AND DISEASE.
- THE CONTRACTOR SHALL OBSERVE MINIMAL SITE PREPARATION/DISTURBANCE, PROTECTION OF PLANTS AFTER DELIVERY UNTIL THEY ARE PLANTED, PROPER DIGGING AND HANDLING OF PLANT MATERIALS, PROPER EXCAVATION OF PLANTING Holes, PLANTING OPERATIONS, STABILIZATION OF THE PLANTING AREAS WITH MULCH AFTER PLANTING, STAKING, PRUNING, AND INSTALLATION OF BUFFER PROTECTION SIGNAGE.

MAINTENANCE AND LONG TERM PROTECTION PLAN

- MONITOR THE PLANTINGS OFTEN TO REDUCE PLANT STRESS SUCH AS WATER DEFICIENCY, NUTRIENT DEFICIENCY, INVASIVE SPECIES COMPETITION, PEST DAMAGE, ANY DISEASE.
- WATER ONLY AS NECESSARY BUT AT LEAST ONCE EVERY 10 DAYS WITHOUT RAINFALL, FROM MAY THROUGH SEPTEMBER, DEPENDING ON SOIL MOISTURE LEVELS. MONITOR TO ENSURE THAT OVER-WATERING DOES NOT FREQUENTLY OCCUR.
- USE ONLY LOW NITROGEN AND SLOW RELEASE FERTILIZERS AND APPLY IN LATE FALL OR EARLY SPRING.
- AT THE END OF THE 2-YEAR MONITORING PERIOD, THE SURVIVAL OF THE PLANTINGS SHALL BE ASSESSED TO DETERMINE THE NEED FOR REPLACEMENT PLANTINGS.
- ALL OF THE PLANTS ARE REQUIRED TO SURVIVE PER COMAR 27.01.09.01-2J. ANY LANDSCAPE STOCK PLANT OR PLANTS THAT DID NOT SURVIVE SHALL BE REPLACED.

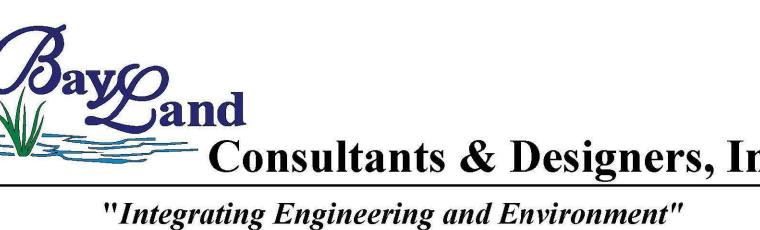
INSPECTION AGREEMENT

I, AN AUTHORIZED REPRESENTATIVE OF THE HARFORD COUNTY GOVERNMENT WHO OWNS THIS PROPERTY, DO HEREBY GRANT PERMISSION TO THE APPROVING AUTHORITY TO INSPECT THE PLANTINGS AT APPROPRIATE TIMES AT THE ADDRESS PROVIDED BELOW.

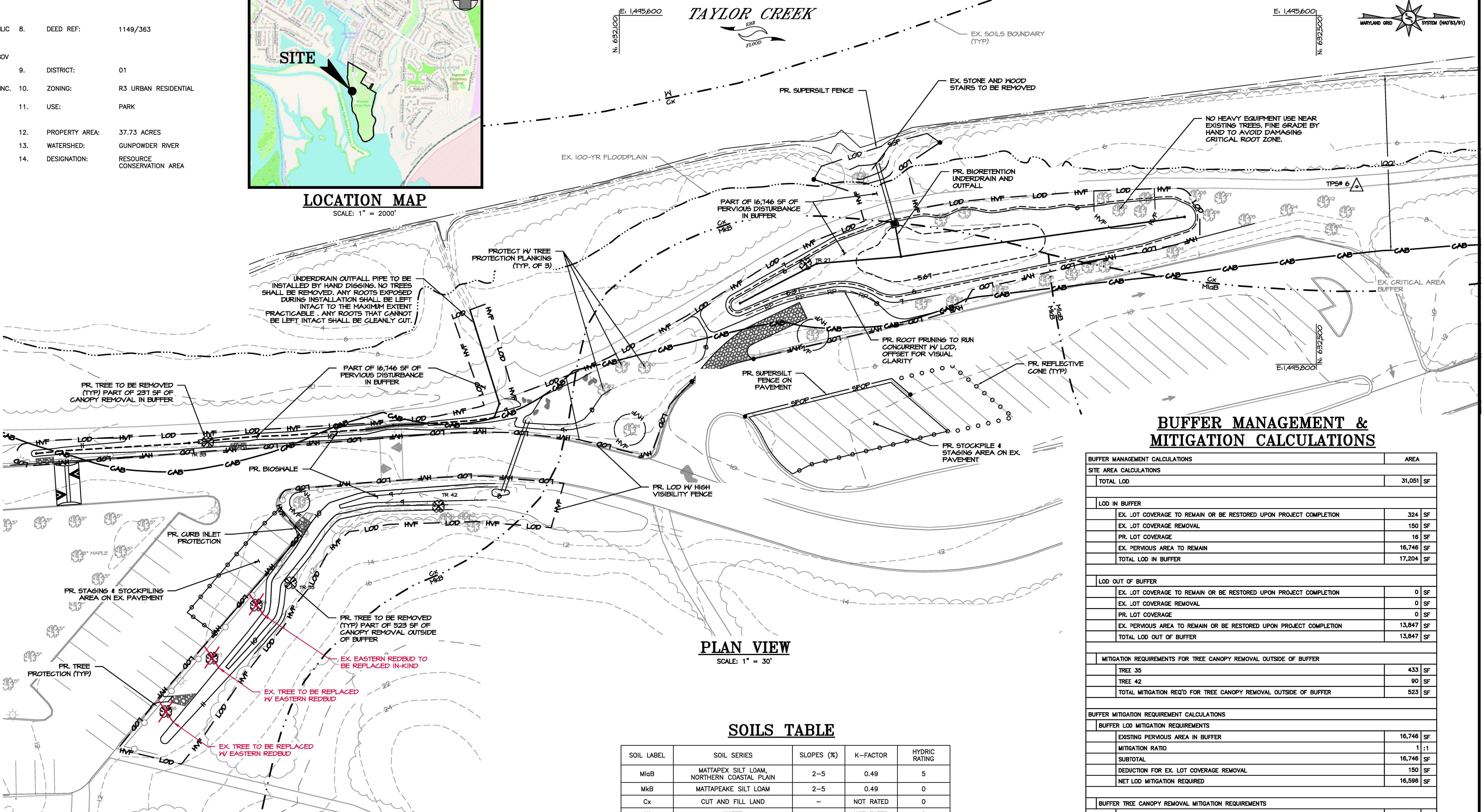
STREET ADDRESS: 100 KEARNEY DRIVE, JOPPA, MD 21085
STREET ADDRESS: 100 KEARNEY DRIVE, JOPPA, MD 21085
TAX MAP: 69
PARCEL: 92
SECTION: N/A
LOT: N/A

BUFFER MANAGEMENT AND PROTECTION STANDARDS

- REMOVAL OF NATURAL VEGETATION WITHIN THE 100-FOOT BUFFER AND EXPANDED BUFFER IS PROHIBITED. CUTTING AND CLEARING OF NATURAL VEGETATION WITHIN THE BUFFER AND EXPANDED BUFFER SHALL NOT BE SHOWN ON THE BUFFER MANAGEMENT PLAN AS SUBMITTED AND/OR IS SUBSEQUENTLY AMENDED, SUBJECT TO APPROVAL BY THE COUNTY PLANNING AND ZONING OFFICE. ADDITIONAL INFORMATION CAN BE OBTAINED BY CONTACTING THE PLANNING AND ZONING OFFICE AT 2664 RIVER ROAD, ANNAPOLIS MARYLAND 21401.
- THE CRITICAL AREA BUFFER ON THIS LOT SHALL BE PLANTED IN ACCORDANCE WITH THE PLAN. ALL EXISTING AND PLANTED VEGETATION WITHIN THE BUFFER SHALL BE MAINTAINED AND SURVIVAL OF PLANTED AND NATURALLY OCCURRING REGENERATED AREAS OF THE BUFFER SHALL BE AS DESCRIBED IN THIS PLAN.
- NEW LAWN AREAS SHALL NOT BE CREATED WITHIN THE BUFFER OR EXPANDED BUFFER UNLESS SPECIFICALLY ADDRESSED IN THIS BUFFER MANAGEMENT PLAN.

OWNER	DATE
0 15 30 60 1 INCH = 30 FEET	
BILLING NO. 97130	
EG-SWMENG-000106-2023	
PROFESSIONAL CERTIFICATION	
<p>I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 33146, EXPIRATION DATE: 01/14/2025.</p>	
 <p>BayLand Consultants & Designers, Inc. "Integrating Engineering and Environment"</p> <p>7455 New Ridge Road, Suite T Phone: (410) 694-9401 Hanover, Maryland 21076 Fax: (410) 694-9105 www.baylandinc.com BAYLAND JOB NO. 4_3209</p>	

TAYLOR CREEK



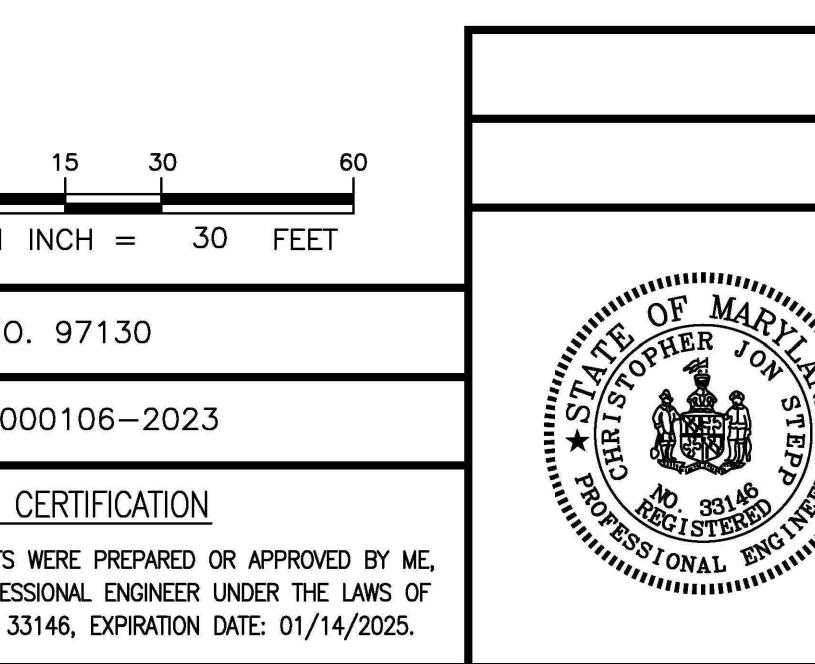
SOILS TABLE

SOIL LABEL	SOIL SERIES	SLOPES (%)	K-FACTOR	HYDRIC RATING
MgB	MATTAPEAK SILT LOAM, NORTHERN COASTAL PLAIN	2-5	0.49	5
MkB	MATTAPEAK SILT LOAM	2-5	0.49	0
Cx	CUT AND FILL LAND	-	NOT RATED	0
W	WATER	-	NOT RATED	0

BUFFER MANAGEMENT PLAN APPROVAL

THIS MAJOR BUFFER MANAGEMENT PLAN HAS BEEN REVIEWED AND APPROVED FOR CONSISTENCY WITH THE LOCAL CRITICAL AREA PROGRAM AND THE PROVISIONS OF COMAR 27.01.09.01-1-7.

STAFF NAME STAFF TITLE DATE



REVISIONS
06/25/2024: REPLACEMENT PLANTINGS ADDED

DRAWN BY : JWS	SCALE : 1" = 30'
DESIGNED BY : MB/JWS	DATE : 7/2/2024
REVIEWED BY : MB	
DRAWING NO.	SHEET NO. 11 OF 12

HARFORD COUNTY, MARYLAND

MARINER POINT PARK STORMWATER MANAGEMENT IMPROVEMENTS BUFFER MANAGEMENT PLAN - IMPACT PLAN

