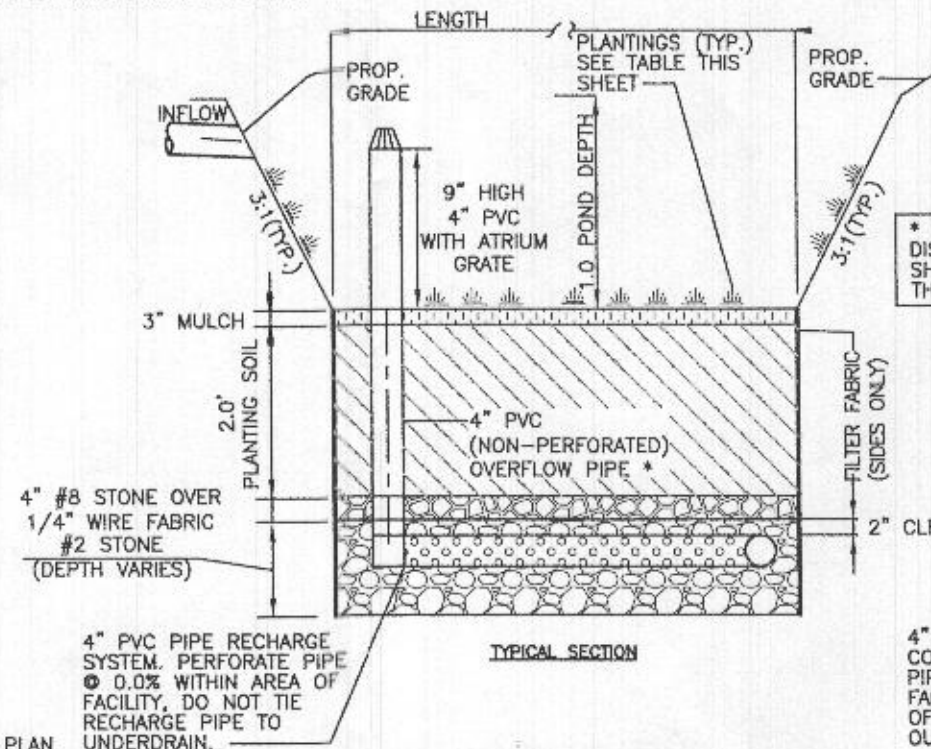


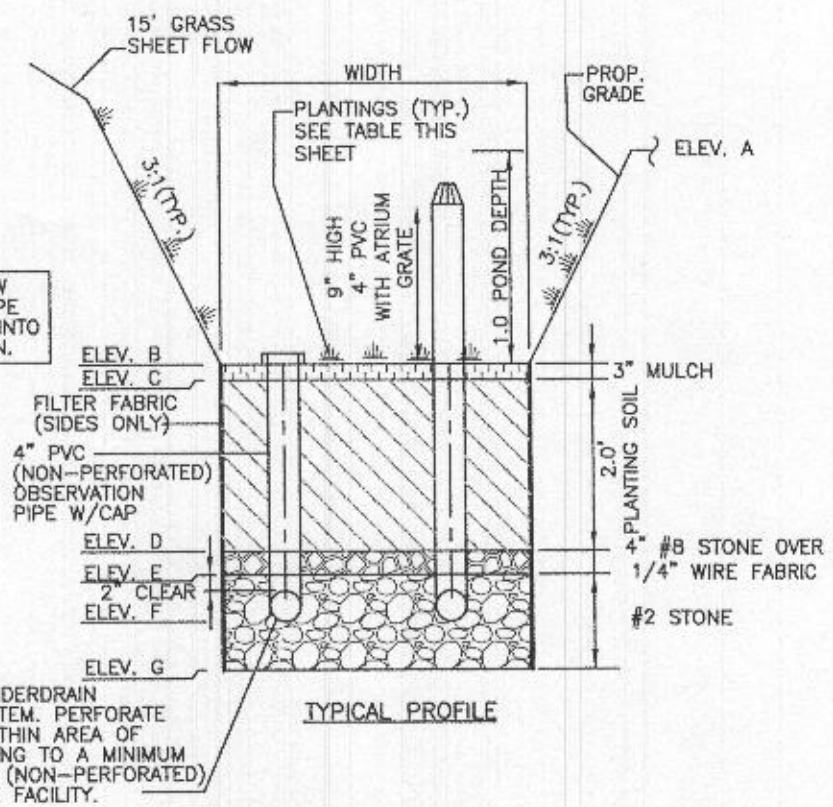
SCHEMATIC PLAN VIEW

NOTE: FACILITIES MUST BE CONSTRUCTED WITH IMPERMEABLE LINER WHEN INSTALLED WITHIN THE 100' WELL RADIUS. THIS LINING SHOULD INCLUDE ENTIRE SIDES AND BOTTOM OF THE EXCAVATION AND EXTEND TO TOP OF EMBANKMENT. LINING ON SIDE SLOPES SHALL BE BELOW TOP SOIL.



TYPICAL SECTION

MICRO-BIORETENTION DETAILS (TYPICAL)
NOT TO SCALE



TYPICAL PROFILE

- MICROBIORETENTION PLANTING DATA**
1. PLANTINGS WITHIN THE PONDING AREA OF THE MICRO-BIORETENTION FACILITY ARE TO BE OF A MEDIUM TO HIGH WATER TOLERANCE
 2. PLANTINGS ALONG THE PERIMETER (BERM) AREA OF THE MICRO-BIORETENTION FACILITY ARE TO BE OF A LOW TO MEDIUM WATER TOLERANCE
 3. AVOID PLANTINGS WITH EXCESSIVE ROOT MASS IN POND AREA OF THE MICRO-BIORETENTION FACILITY NEAR O.B. PIPE AND UNDERDRAIN.

- MICROBIORETENTION PLANTING SCHEDULE**
(SPECIFIC NUMBER OF PLANTINGS SHALL BE DETERMINED WITH FINAL DESIGN AT PLOT PLAN PHASE)
- ① VINCA MINOR (COMMON PERIWINKLE)
 - ② AJUSTA REPTAS (CREEPING BUNGLEWEED)
 - ③ IRIS VERSICOLOR (IRIS)
 - ⊗ CALLUNA VULGARIS (HEATHER) (2 PER FACILITY)

ON-LOT BIORETENTION CONCEPTUAL DIMENSIONS*

FACILITY	LENGTH (FT)	WIDTH (FT)	A	B	C	D	E	F	G	H	FILTER (A)	PLANTINGS		
MB-2	18.2	26.6	448.00	447.00	446.83	444.83	444.50	443.83	442.90	443.80	478	46	40	22

PLUS 2 CALLUNA VULGARIS (HEATHER) PER FACILITY

OPERATION AND MAINTENANCE SCHEDULE FOR MICRO-BIORETENTION (M-6)

- A. THE OWNER SHALL MAINTAIN THE PLANT MATERIAL, MULCH LAYER AND SOIL LAYER ANNUALLY. MAINTENANCE OF MULCH AND SOIL IS LIMITED TO CORRECTING AREAS OF EROSION OR WASH OUT. ANY MULCH REPLACEMENT SHALL BE DONE IN THE SPRING. PLANT MATERIAL SHALL BE CHECKED FOR DISEASE AND INSECT INFESTATION AND MAINTENANCE WILL ADDRESS DEAD MATERIAL AND PRUNING. ACCEPTABLE REPLACEMENT PLANT MATERIAL IS LIMITED TO THE FOLLOWING: 2000 MARYLAND STORMWATER DESIGN MANUAL VOLUME II, TABLE A.4.1 AND 2.
- B. THE OWNER SHALL PERFORM A PLANT INSPECTION IN THE SPRING AND IN THE FALL OF EACH YEAR. DURING THE INSPECTION, THE OWNER SHALL REMOVE DEAD AND DISEASED VEGETATION CONSIDERED BEYOND TREATMENT, REPLACE DEAD PLANT MATERIAL WITH ACCEPTABLE REPLACEMENT PLANT MATERIAL, TREAT DISEASED TREES AND SHRUBS, AND REPLACE ALL DEFICIENT STAKES AND WIRES.
- C. THE OWNER SHALL INSPECT THE MULCH EACH SPRING. THE MULCH SHALL BE REPLACED EVERY TWO TO THREE YEARS. THE PREVIOUS MULCH LAYER SHALL BE REMOVED BEFORE THE NEW LAYER IS APPLIED.
- D. THE OWNER SHALL CORRECT SOIL EROSION ON AN AS NEEDED BASIS, WITH A MINIMUM OF ONCE PER MONTH AND AFTER EACH HEAVY STORM.

BIO-RETENTION DIMENSION LEGEND

FACILITY	NAME
A	TOP OF EMBANKMENT
B	TOP OF MULCH
C	TOP OF SOIL
D	TOP OF STONE FILTER
E	TOP OF STONE STORAGE
F	UNDERDRAIN INVERT
G	BOTTOM OF STONE
H	OUTFALL ELEVATION

Designation	Area (SF)	Area (SF)	Runoff	Required (CF)	Length (ft)	Length (ft)	Length (ft)	Ratio	Pe Treated (inches)	Volume Provided (CF)
NR-2	393	728	0.54	38.94	2	11	12	1.0	1.0	32.51
NR-4	1361	2320	0.58	133.84	2	16	18	1.0	1.0	111.74

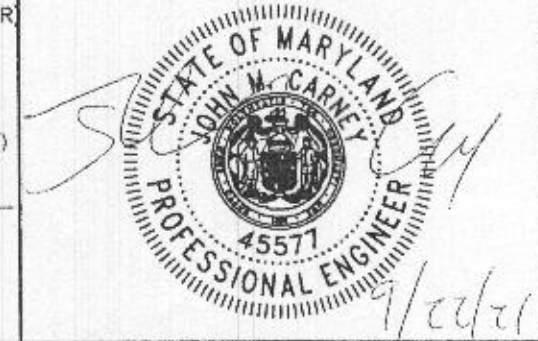
OPERATION AND MAINTENANCE SCHEDULE FOR PRIVATELY OWNED AND MAINTAINED DISCONNECTION OF ROOFTOP RUNOFF (N-1), DISCONNECTION OF NON-ROOFTOP RUNOFF (N-2)

MAINTENANCE OF AREAS RECEIVING DISCONNECTED RUNOFF IS GENERALLY NO DIFFERENT THAN THAT REQUIRED FOR OTHER LAWN OR LANDSCAPED AREAS. THE OWNER SHALL ENSURE THE AREAS RECEIVING RUNOFF ARE PROTECTED FROM FUTURE COMPACTION OR DEVELOPMENT OF IMPERVIOUS AREA. IN COMMERCIAL AREAS, FOOT TRAFFIC SHOULD BE DISCOURAGED AS WELL.

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Professional Certification. 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. 45577, Expiration Date: 06/08/2022



PROJECT:	CLARKSVILLE CROSSING LOT 1		
LOCATION:	TAX MAP: 34, GRID: 23, PARCEL: 301 6505 OLD HILLTOP CT., TAX ID: 05-602003 ELECTION DISTRICT NO. 5, HOWARD COUNTY, MARYLAND		
TITLE:	BUILDING PERMIT PLAN		
HOUSE TYPE:	RUTLEDGE		
DATE:	SEPTEMBER, 2021	PROJECT NO.	2525
SCALE:	AS SHOWN	DRAWING	2 OF 2