Howard County Health Department

Bureau of Environmental Health
8930 Stanford Boulevard, Columbia, MD 21045
Main: 410-313-2640 | Fax: 410-313-2648
TDD 410-313-2323 | Toll Free 1-866-313-6300
www.hchealth.org
Facebook: www.facebook.com/hocohealth

Maura J. Rossman, M.D., Health Officer

RECEIPT DATE: 8-16-21 **ONSITE SEWAGE DISPOSAL SYSTEM** P 570108

APPROVAL DATE: 09/21/2021 **PERMIT: CONSTRUCTION** A

PROPERTY ADDRESS: **3001 Skye Meadow Way**

SUBDIVISION: **Rover Mill Estates** LOT: **7** TAX ID:

CONTRACTOR: WTC Contractors Inc EMAIL:

CONTRACTOR ADDRESS: 3033 Salem Bottom Rd, Westminster, MD 21157 PHONE: 410-458-7024

PROPERTY OWNER: **Security Development LLC** EMAIL:

OWNER ADDRESS: **8480 Baltimore National Pike, Ellicott City, MD 21043** PHONE: **410-465-4244**

SEPTIC TANK SIZE (GALLONS): **1500** TANK MANUFACTURER: ~~Mayer Bros~~ BABYLON

PUMP MODEL: PUMP SIZE PUMP TANK CAPACITY: 1500

DISTRIBUTION SYSTEM: ☒ GRAVITY ☐ PRESSURE DOSED BEDROOMS: **5** APPLICATION RATE: **0.8**

TRENCHES:	LINEAR FEET REQUIRED: **197**	INLET DEPTH: **3**
	TRENCH WIDTH: **3**	MAXIMUM BOTTOM DEPTH: **6**
	MINIMUM SPACE BETWEEN TRENCHES: **10**	EFFECTIVE AREA BEGINNING DEPTH: **4**
LOCATION:	**PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND TANK LOCATIONS MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION.**	
NOTES:		

ISSUED BY: **Dana Bernard** ISSUE DATE: 8-18-21 EXPIRATION DATE: 8-16-22

NOTE: CONTRACTOR MUST SCHEDULE A PRE-CONSTRUCTION INSPECTION PRIOR TO BEGINNING ANY INSTALLATION

NOTE: CONTRACTOR MUST SCHEDULE AN INSPECTION AND GAIN APPROVAL OF ALL COMPONENTS PRIOR TO COVERING

NOTE: STONE MUST BE APPROVED BY HEALTH DEPARTMENT AND GRAVEL TICKET MUST BE AVAILABLE FOR REVIEW.

NOTE: WATERTIGHT TANKS REQUIRED

NOTE: ALL PARTS OF SEPTIC SYSTEM SHALL BE AT LEAST 100 FEET DOWNGRADIENT FROM ANY WATER WELL

NOTE: MANHOLE RISERS REQUIRED ON ALL SEPTIC TANKS AND PUMP CHAMBERS

NOTE: AN ELECTRICAL PERMIT IS REQUIRED FOR INSTALLATION OF ANY ELECTRICAL COMPONENTS OF THE SYSTEM

☑ *ELECTRICAL PERMIT ISSUED* E 20026139

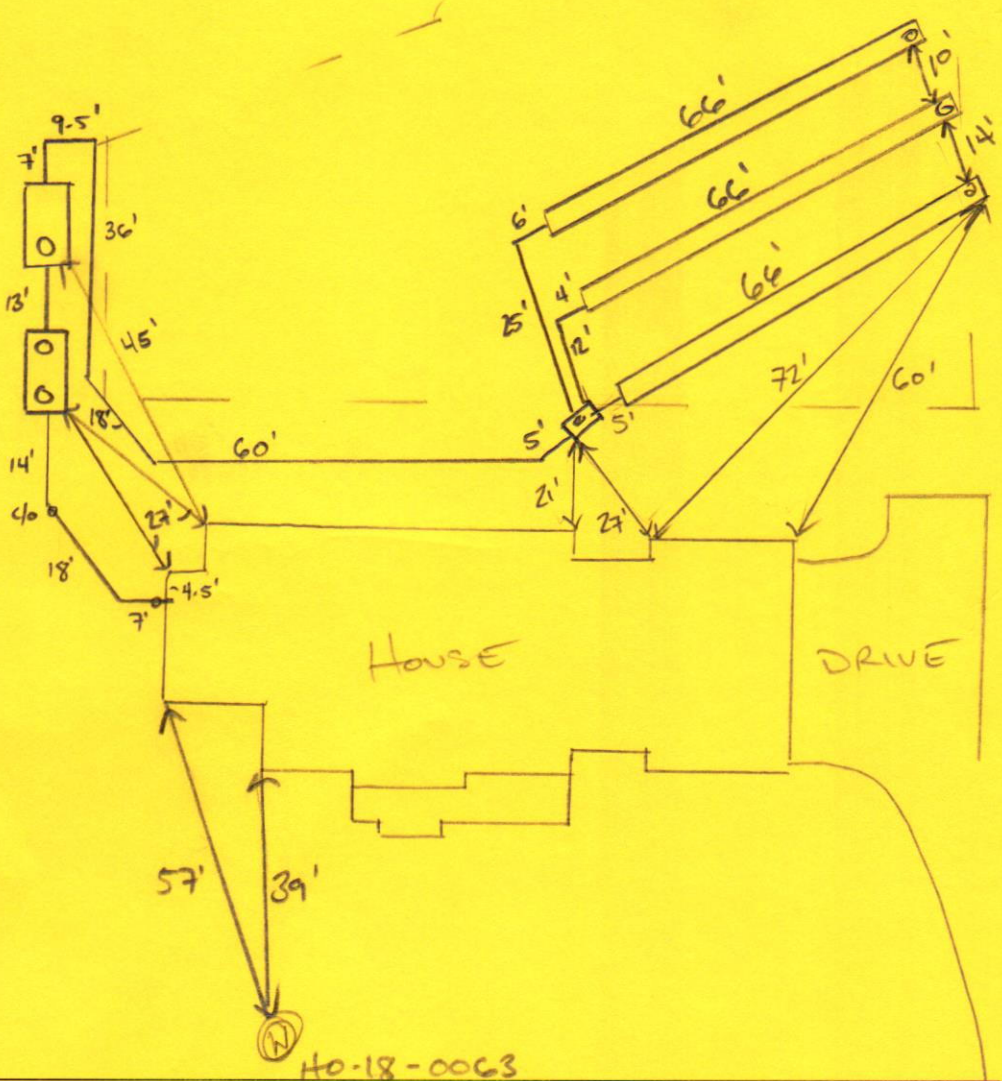
NOTE: MDE RECOMMENDS SEPTIC TANKS, BAT, AND OTHER PRETREATMENT UNITS BE PUMPED AT A FREQUENCY ADEQUATE TO ENSURE THAT SOLIDS ARE NOT DISCHARGED TO THE DISPOSAL AREA

NEITHER THE HOWARD COUNTY COUNCIL NOR THE HEALTH DEPARTMENT IS RESPONSIBLE FOR THE SUCCESSFUL OPERATION OF ANY SYSTEM.

PERMITTEE RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT.

CALL 410-313-1771 TO SCHEDULE INSPECTIONS.

NOT TO SCALE ≈1:30



ROAD NAME
SKYE MEADOW WAY

TRENCH/DRAINFIELD DATA

WIDTH	INLET	BOTTOM
3'	3'	6'

NUMBER OF TRENCHES 3
TOTAL LENGTH 198 F
ABSORPTION AREA 594 SF + 2' SIDE WALL
DISTRIBUTION BOX LEVEL PUMP
DISTRIBUTION BOX BAFFLE 45° TURN
DISTRIBUTION BOX PORT YES

SEPTIC TANK DATA

SEPTIC TANK 1 LEVEL YES
MANUFACTURER BABYLON
CAPACITY 1500 GAL
SEAM LOC TOP
TANK LID DEPTH <3'
BAFFLES YES
BAFFLE FILTER —
MANHOLE LOC FRONT/BACK
6" PORT LOC —
WATERTIGHT TEST —
SLOTTED YES
DATE ON LID

PUMP/SEPTIC TANK LEVEL YES
MANUFACTURER BABYLON
CAPACITY 1500 GAL
SEAM LOC TOP
TANK LID DEPTH <3'
BAFFLES —
BAFFLE FILTER —
MANHOLE LOC FRONT
6" PORT LOC —
WATERTIGHT TEST —
SLOTTED —
DATE ON LID

PRE-CONSTRUCTION:
9/10/21 3x66' trenches staked out on contour according to plan (SZ)

INSTALLATION: 09/16/2021 INSTALLED SHC, SL, TANKS SET. OK TO REMOVE C/O BETWEEN TANKS. (SZ) 09/17/2021 INSTALLED FM, DBOX; LOWER AND MID TRENCHES (SZ) 09/20/2021 UPPER TRENCH COMPLETE. (SZ) 12/3/21 P/A test: alarm not labeled on circuit box. D-box covered by turn down, could not obs. flow. Alarm not obs to function. (ST) 12/6/21 Pump obs to function, water flowing in d-box. Alarm obs to function, located in basement. Circuit with alarm labeled in circuit panel. (ST)

FINAL INSPECTOR Susan Thornton DATE OF APPROVAL 09/21/2021

12/6/21

HOWARD COUNTY HEALTH DEPARTMENT

70108

PS

DATE 8/16/21

Received From WTC Contractors PHONE # 410 875-9773

INC.

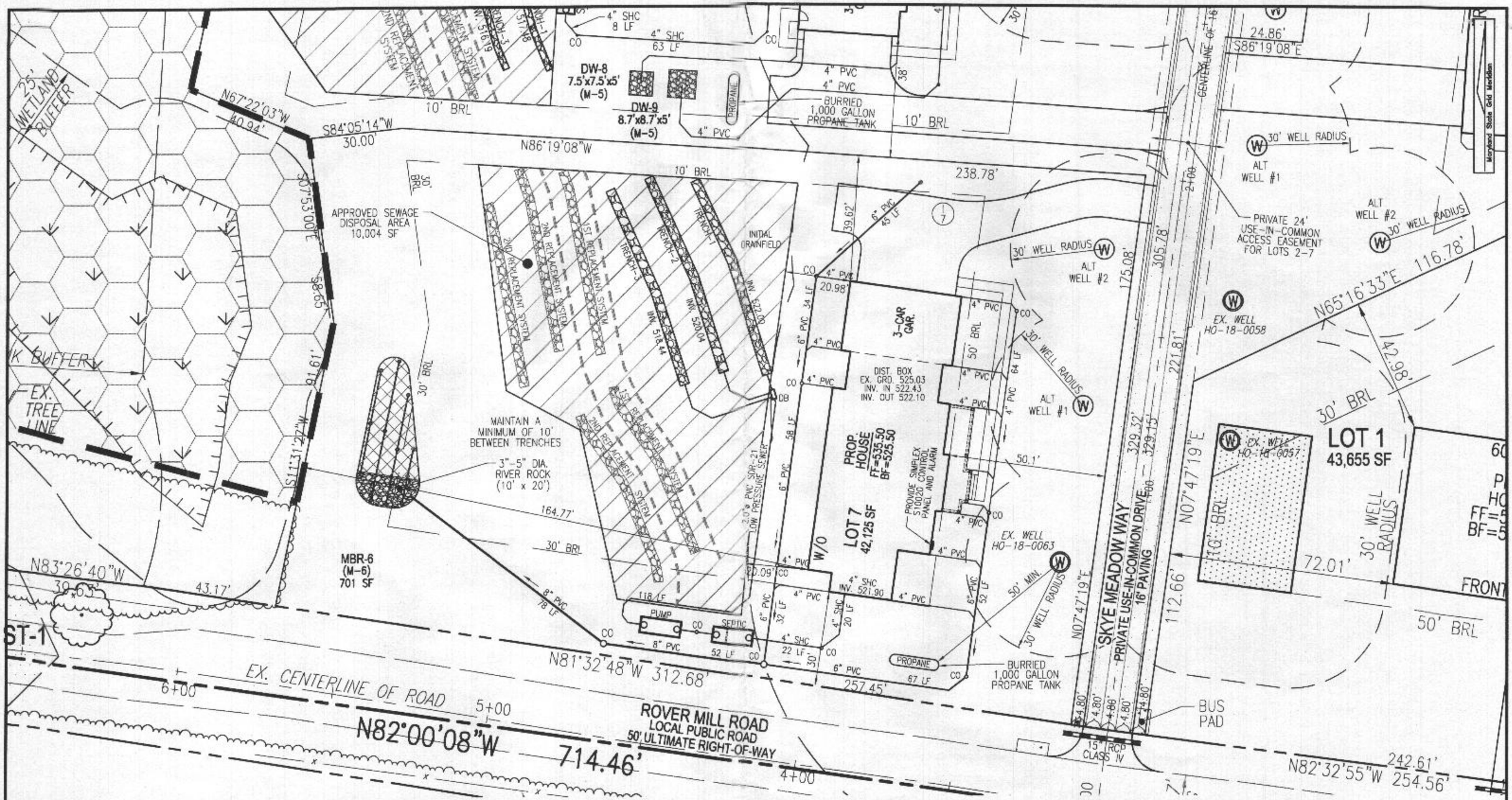
For Septic Permit (2) Rover Mill
Lots 3-7

☐ CASH
☒ CHECK
NO. 42910

Seven hundred ninety-two Dollars

$ 792.00

Received By JKing



SCALE	1"=30'
DRAWN BY	JMR
CHECKED BY	RHV
DATE	01/11/21
W. O. #	15-36
SHEET#	1 OF 4

PARCEL: 169
TAX MAP: 15 GRID: 14
3RD ELECTION DISTRICT

PLOT PLAN

ROVER MILL ESTATES

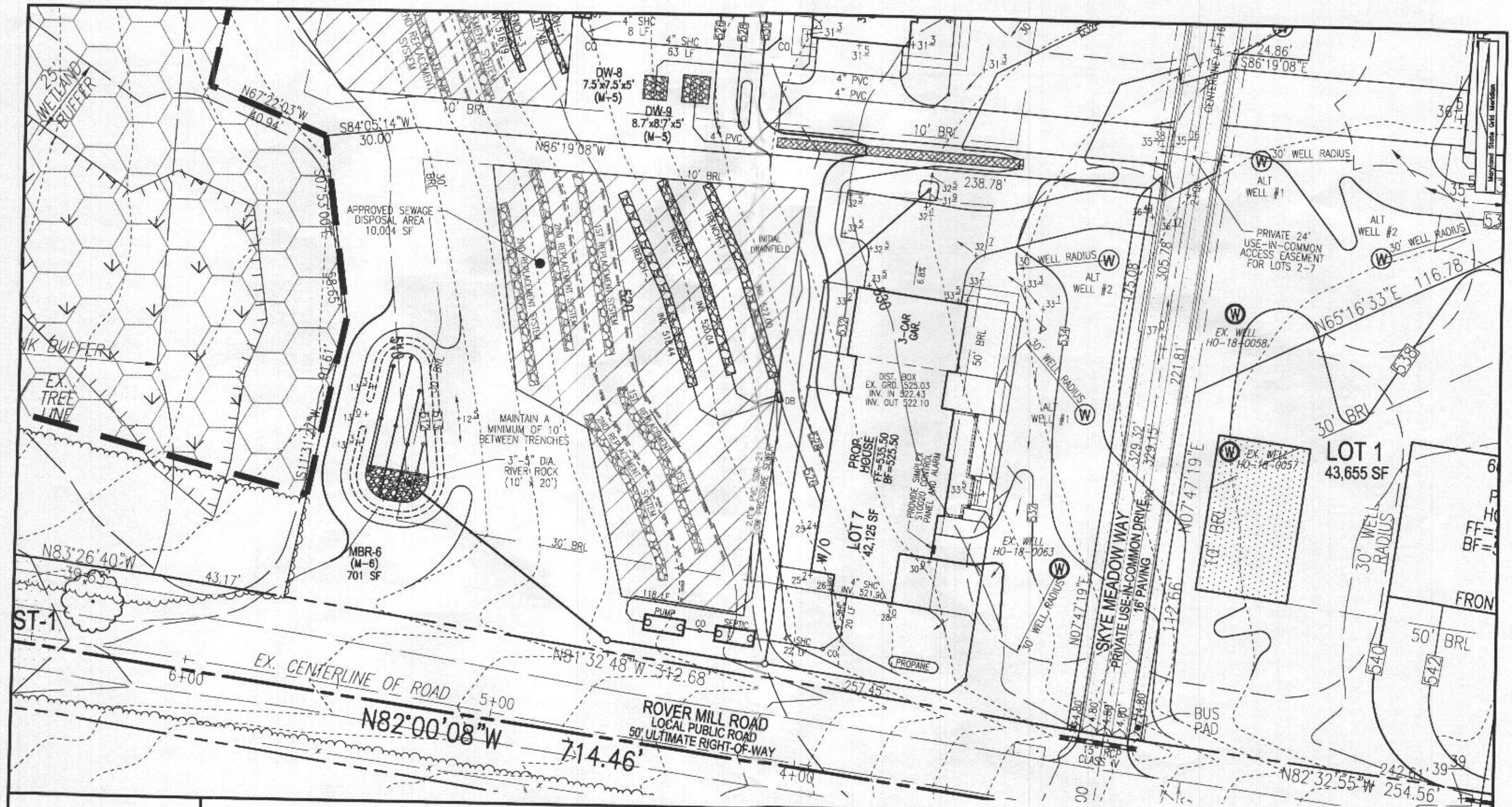
LOT 7

3001 SKYE MEADOW WAY

REF: F-19-056

ZONED: RR-DEO
L. 19082 / F. 490
HOWARD COUNTY, MARYLAND

VOGEL ENGINEERING
TIMMONS GROUP
3300 NORTH RIDGE ROAD, SUITE 110, ELLICOTT CITY, MD 21043
P: 410.461.7666 F: 410.461.8961 www.timmons.com



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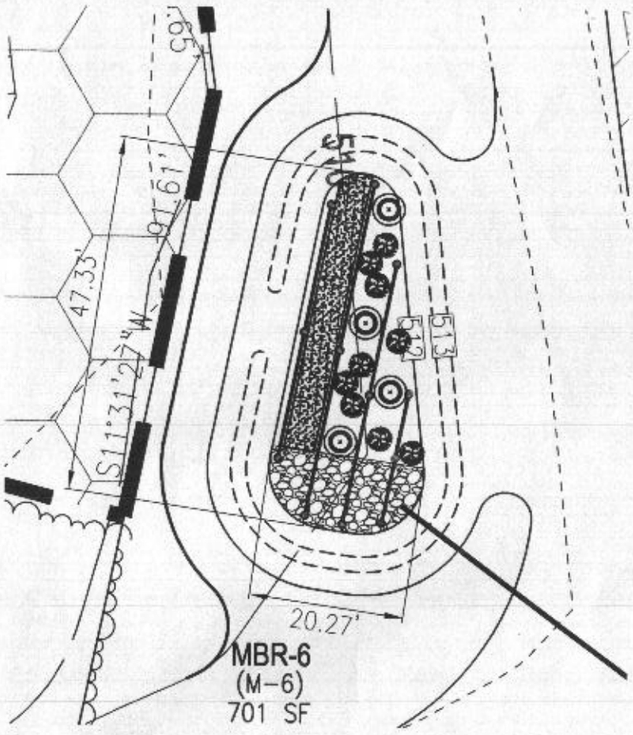

MBR-6 PLANTING DETAIL (701 SF)

SCALE: 1"=20'

MICRO-BIORETENTION PLANTING SCHEDULE (MBR-6)				
	QTY	BOTANICAL NAME/COMMON NAME	SIZE	REMARKS
	4	LINDERA BENZOIN SPICEBUSH	3 GALLON	CONT
	9	ILEX GLABRA INKBERRY	3 GALLON	CONT
	150 SF	LOBELIA CARDINALIS CARDINAL FLOWER	2" POT	1" O.C.

1. SF x 0.0229 STEMS PER SQUARE FOOT = PLANTS REQUIRED
2. PLANTINGS REQUIRED: 16
3. (50 SF) CARDINAL FLOWER = 1 PLANTING UNIT

"MICRO-BIORETENTION" PLANTING SCHEDULE NOTES:

1. ALL PLANT MATERIALS SHALL BE FULL AND HEAVY, BE WELL FORMED AND SYMMETRICAL, CONFORM TO THE MOST CURRENT AAN SPECIFICATIONS AND BE INSTALLED IN ACCORDANCE WITH HOWARD COUNTY PLANTING SPECIFICATIONS.
2. CONTRACTOR SHALL VERIFY LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO DIGGING.
3. FINAL LOCATION OF PLANT MATERIAL MAY NEED TO VARY TO MEET FINAL FIELD CONDITIONS. TREES SHALL NOT BE PLANTED IN THE BOTTOM OF DRAINAGE SWALES.
4. CONTRACTOR SHALL VERIFY PLANT QUANTITIES PRIOR TO BIDDING. IF PLAN DIFFERS FROM LANDSCAPE SCHEDULE, THE PLAN SHALL GOVERN.
5. MICROBIORETENTION AREAS ARE TO BE PLANTED BASED ON A MINIMUM DENSITY OF 1000 STEMS PER PLANTED ACRE (.0229 STEMS PER SQUARE FOOT). ABOVE PLANTING RATIOS ARE TO BE APPLIED TO THE AREAS PROVIDED IN THE ESDv SUMMARY.
6. FILTER AREA SHALL BE 50% COVERED BY PLANTINGS AT FULL GROWTH

1. TABLE A.4 IS TAKEN FROM THE "2000 MARYLAND STORMWATER MANUAL, VOLUME II – APPENDIX A.
2. CONTRACTOR SHALL BE FAMILIAR WITH APPENDIX B.4.C "CONSTRUCTION SPECIFICATIONS", AND TABLE B.4.1 "MATERIAL SPECIFICATIONS". IN ADDITION, THE "2000 MARYLAND STORMWATER DESIGN MANUAL, VOULME II – APPENDIX A, OFFERS ADDITIONAL HELPFUL INFORMATION.
3. NO TREES SHALL BE PLANTED WITHIN A MICRO-BIORETENTION FACILITY. USE ONLY SHRUB OR HERBACEOUS SPECIES.
4. ABOVE TABLE A.4 IS FOR INFORMATIONAL PURPOSES ONLY. LANDSCAPE CONTRACTOR SHALL INSTALL PLANTINGS SPECIFIED IN THE PLANTING SCHEDULES SHOWN HEREON. CHOOSE FROM THE ABOVE TABLE, OR USE APPROVED EQUAL SPECIES WHICH ARE TOLERANT TO FLUCTUATING WATER LEVELS. IF SUBSTITUTIONS ARE CHOSEN, APPROVAL FROM THE ENGINEER IS REQUIRED.
5. PLANTINGS SHOWN HEREON ARE THE RESPONSIBILITY OF THE DEVELOPER TO INSTALL DURING THE CONSTRUCTION OF THIS FINAL PLAN.

Table A.4 Commonly Used Species for Bioretention Areas

Trees	Shrubs	Herbaceous Species
Acer rubrum Red Maple	*Aesculus parviflora* Bottlebrush Buckeye	*Andropogon virginicus* Broomsedge
Betula nigra River Birch	*Cephalanthus occidentalis* Buttonbush	*Eupatorium perpurea* Joe Pye Weed
Juniperus virginiana Eastern Red Cedar	*Hamemelis virginiana* Witch Hazel	*Scirpus pungens* Three Square Bulrush
Chionanthus virginicus Fringe-tree	*Vaccinium corymbosum* Highbush Blueberry	*Iris versicolor* Blue Flag
Nyssa sylvatica Black Gum	*Ilex glabra* Inkberry	*Lobelia cardinalis* Cardinal Flower
Diospyros virginiana Persimmon	*Ilex verticillata* Winterberry	*Panicum virgatum* Switchgrass
Platanus occidentalis Sycamore	*Viburnum dentatum* Arrowwood	*Dichanthelium scoparium* Broom Panic Grass
Quercus palustris Pin Oak	*Lindera benzoin* Spicebush	*Rudbeckia laciniata* Tall Coneflower
Quercus phellos Willow Oak	*Myrica pennsylvanica* Bayberry	*Scirpus cyperinus* Woolgrass
Salix nigra Black willow		*Vernonia noveboracensis* New York Ironweed

Note 1: For more options on plant selection for bioretention, consult Bioretention Manual (ETAB, 1993) or the Design of Stormwater Filtering Systems (Claytor and Schueler, 1997).

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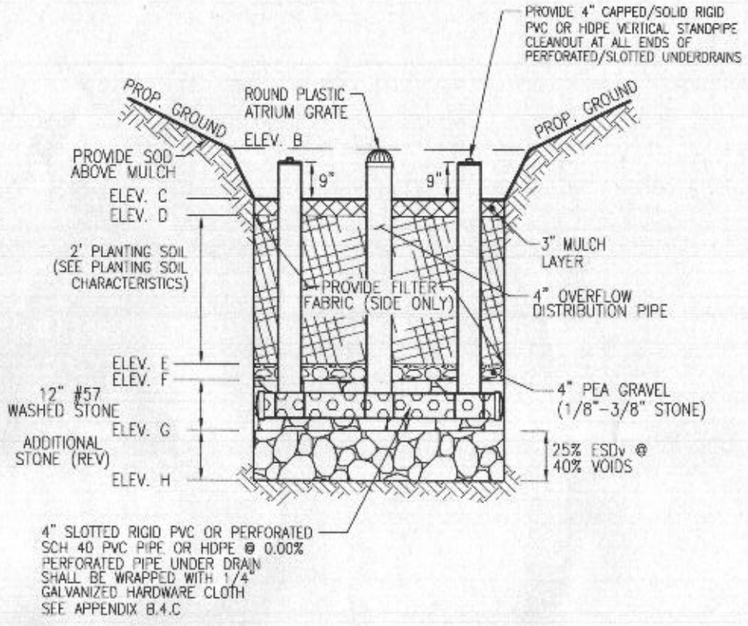
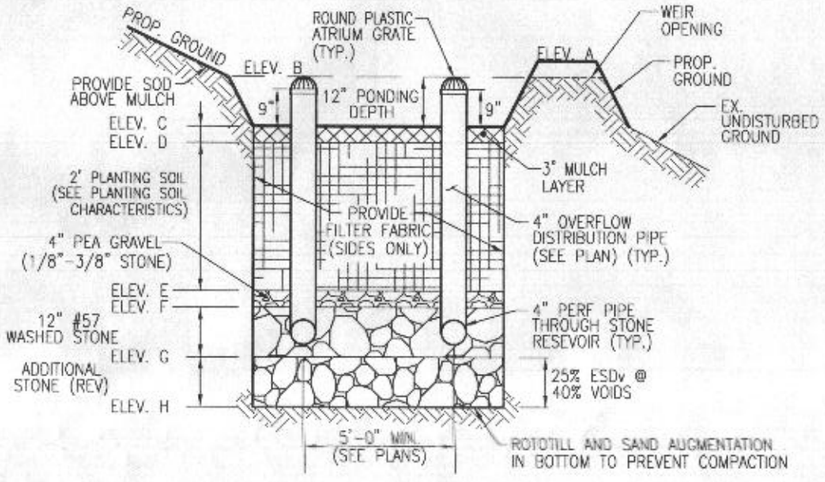




MICRO-BIORETENTION

(MBR-6)

W/ WEIR ONLY

NOT TO SCALE

MICRO-BIORETENTION FACILITY ELEVATIONS (M-6)											
FACILITY	A	B	C	D	E	F	G	H	WEIR ELEV.	UNDERDRAIN INVERT	FACILITY SIZE
MBR-6	513.30	513.00	512.00	511.75	509.75	509.42	508.42	507.59	513.00	508.75	701 SF

OPERATION AND MAINTENANCE SCHEDULE FOR (M-6) MICROBIORETENTION AREAS

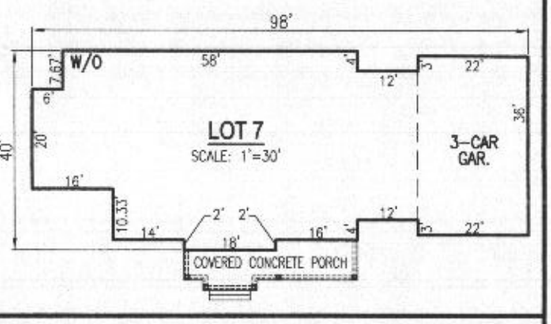
1. ANNUAL MAINTENANCE OF PLANT MATERIAL, MULCH LAYER AND SOIL LAYER IS REQUIRED. MAINTENANCE OF MULCH AND SOIL IS LIMITED TO CORRECTING AREAS OF EROSION OR WASH OUT. ANY MULCH REPLACEMENT SHALL BE DONE IN THE SPRING. PLANT MATERIAL SHALL BE CHECKED FOR DISEASE AND INSECT INFESTATION AND MAINTENANCE WILL ADDRESS DEAD MATERIAL AND PRUNING. ACCEPTABLE REPLACEMENT PLANT MATERIAL IS LIMITED TO THE FOLLOWING: 2000 MARYLAND STORMWATER DESIGN MANUAL VOL. II, TABLE A.4.1 AND 2.
2. SCHEDULE OF PLANT INSPECTION WILL BE TWICE A YEAR IN SPRING AND FALL. THIS INSPECTION WILL INCLUDE REMOVAL OF DEAD AND DISEASED VEGETATION CONSIDERED BEYOND TREATMENT, TREATMENT OF ALL DISEASED TREES AND SHRUBS AND REPLACEMENT OF ALL DEFICIENT STAKES AND WIRES.
3. MULCH SHALL BE INSPECTED EACH SPRING. REMOVE PREVIOUS MULCH LAYER BEFORE APPLYING NEW LAYER ONCE EVERY 2 TO 3 YEARS.
4. SOIL EROSION TO BE ADDRESSED ON AN AS NEEDED BASIS WITH A MINIMUM OF ONCE PER MONTH AND AFTER HEAVY STORM EVENTS.

MICROBIORETENTION NOTES:

1. ONLY THE SIDES OF MICROBIORETENTION ARE TO BE WRAPPED IN FILTER FABRIC. FILTER FABRIC BETWEEN LAYER OR AT THE BOTTOM OF THE MICROBIORETNTION WILL CAUSE THE MBR TO FAIL, AND THERFORE SHALL NOT BE INSTALLED.
2. WRAP THE PERFORATED MBR UNDERDRAIN PIPE WITH 1/4" MESH (4x4) OR SMALLER GALVANIZED HARDWARE CLOTH.
3. PROVIDE 5' MINIMUM SPACING BETWEEN UNDER DRAIN AND PERFERATED PIPE THROUGH STONE RESIVOIR OR SPACE PIPE EQUALLY ACROSS BOTTOM FOR SMALL BIOS. (SEE PLANS)

MBR-6

D.A.=6,534 SF IMP=5,227 I=80
Rv=0.05+(0.009)(80)=.77
ESDv=(6,534)(2.2)(0.77)/12=922 CF (MIN.)
AREA ABOVE MULCH=(922 CF)(0.75)=692 SF (MIN.)
AREA PROVIDED 701 SF
ESDv PROVIDED 593 SF/.75 = 935 CF



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