

BUCHANAN GREEN STREET PROJECT

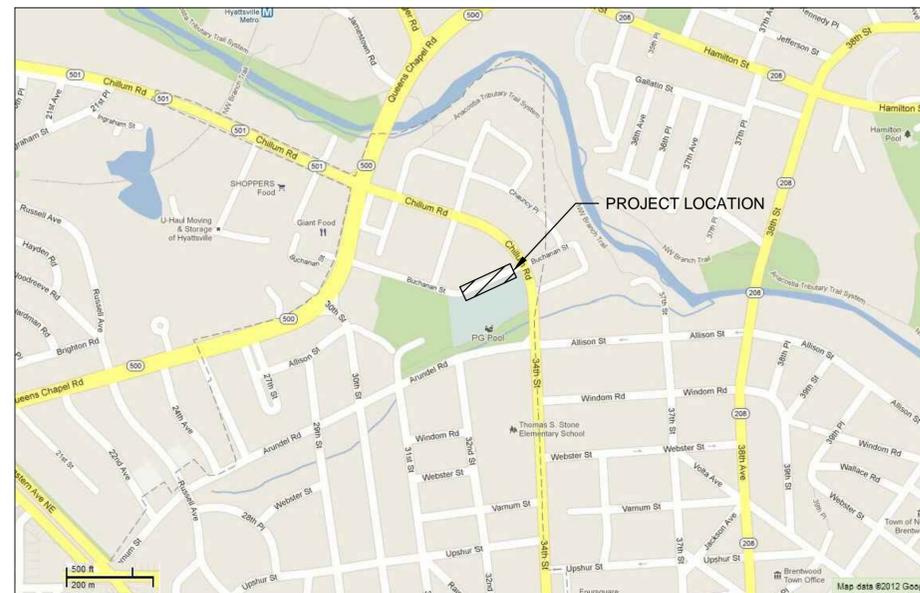
CITY OF MOUNT RAINIER, MARYLAND

BUCHANAN
GREEN STREET
PROJECT

LEGEND

EXISTING	PROPOSED
EDGE OF GRAVEL	CONTOURS
CURB	LIMIT OF DISTURBANCE
EDGE OF ASPHALT	SILT FENCE
CONCRETE FLUME	TOP OF CURB ELEVATION
EDGE OF CONCRETE	STAGING AND STOCKPILE AREA
CHAIN LINK FENCE	TREE TO BE REMOVED
TOP OF BANK	DEWATERING PUMP
BOTTOM OF BANK OR CENTER OF SWALE	FILTER BAG
UNDERGROUND ELECTRIC MARKING	
UNDERGROUND GAS LINE MARKING	
UNDERGROUND TELECOMMUNICATIONS MARKING	
OVERHEAD ELECTRIC LINE	
CONTOUR (5 FOOT INTERVAL)	
CONTOUR (1 FOOT INTERVAL)	
HANDICAP PARKING	
TREE	
SHRUB	
SURVEY MARKER FOUND	
BENCHMARK	
STORM DRAIN MANHOLE	
18" INLET	
WATER METER	
WATER VALVE	
FIRE HYDRANT	
GAS METER	
UTILITY POLE	
GUY WIRE	
SEWER MANHOLE	
SIGN	

VICINITY MAP

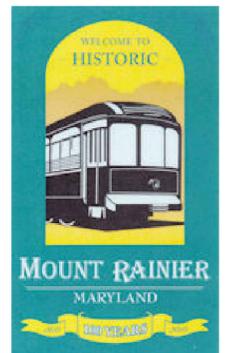


SHEET INDEX

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2. DRAINAGE AREA AND EXISTING CONDITIONS
3. PROPOSED CONDITIONS
4. PROPOSED CONDITIONS
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14. GENERAL NOTES AND SEQUENCE OF CONSTRUCTION

04-01-2013 90% SUBMITTAL
11-06-2012 30% SUBMITTAL
10-16-2012 CONCEPT SUBMITTAL

DATE ISSUES / REVISIONS



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BUCHANAN
GREEN STREET
PROJECT

TITLE:
COVER SHEET

PROJECT NO.: 12013.01

SCALE:

SEAL: BY: AL, PJ CHECK: DS

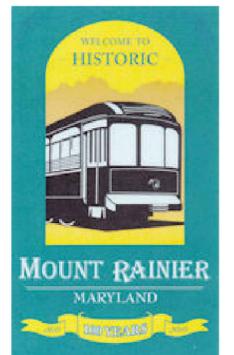
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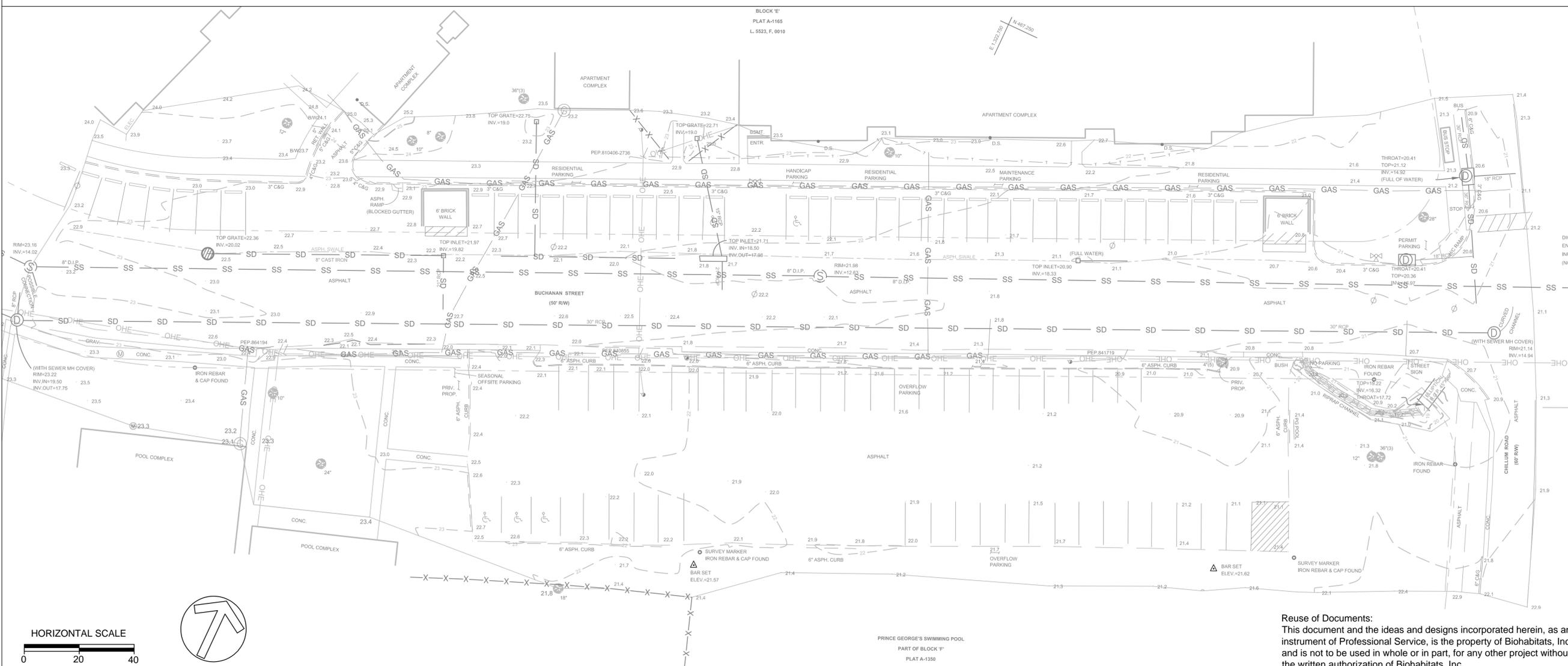
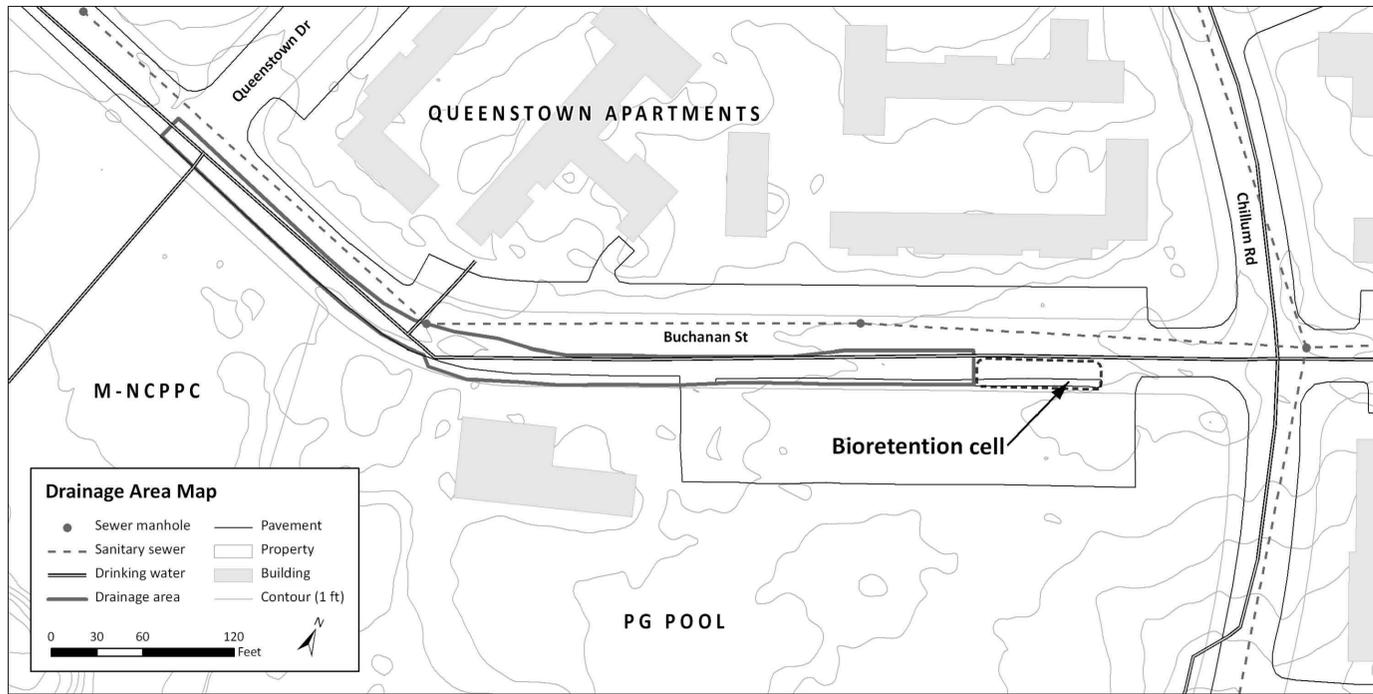


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TITLE: DRAINAGE AREA AND
EXISTING CONDITIONS

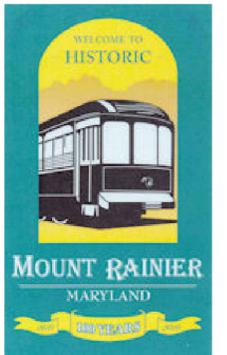
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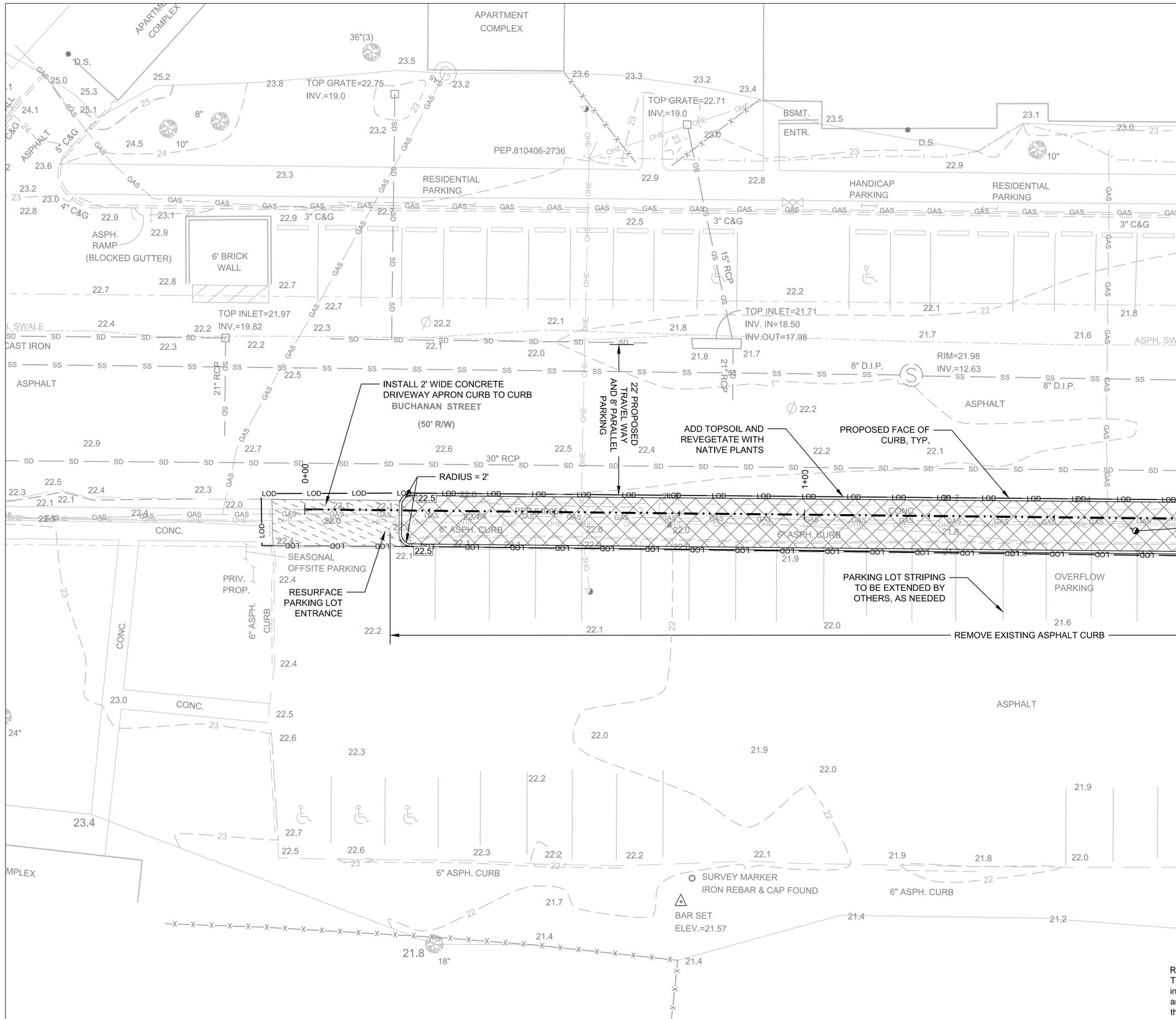
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PROPOSED CONDITIONS

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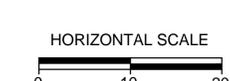
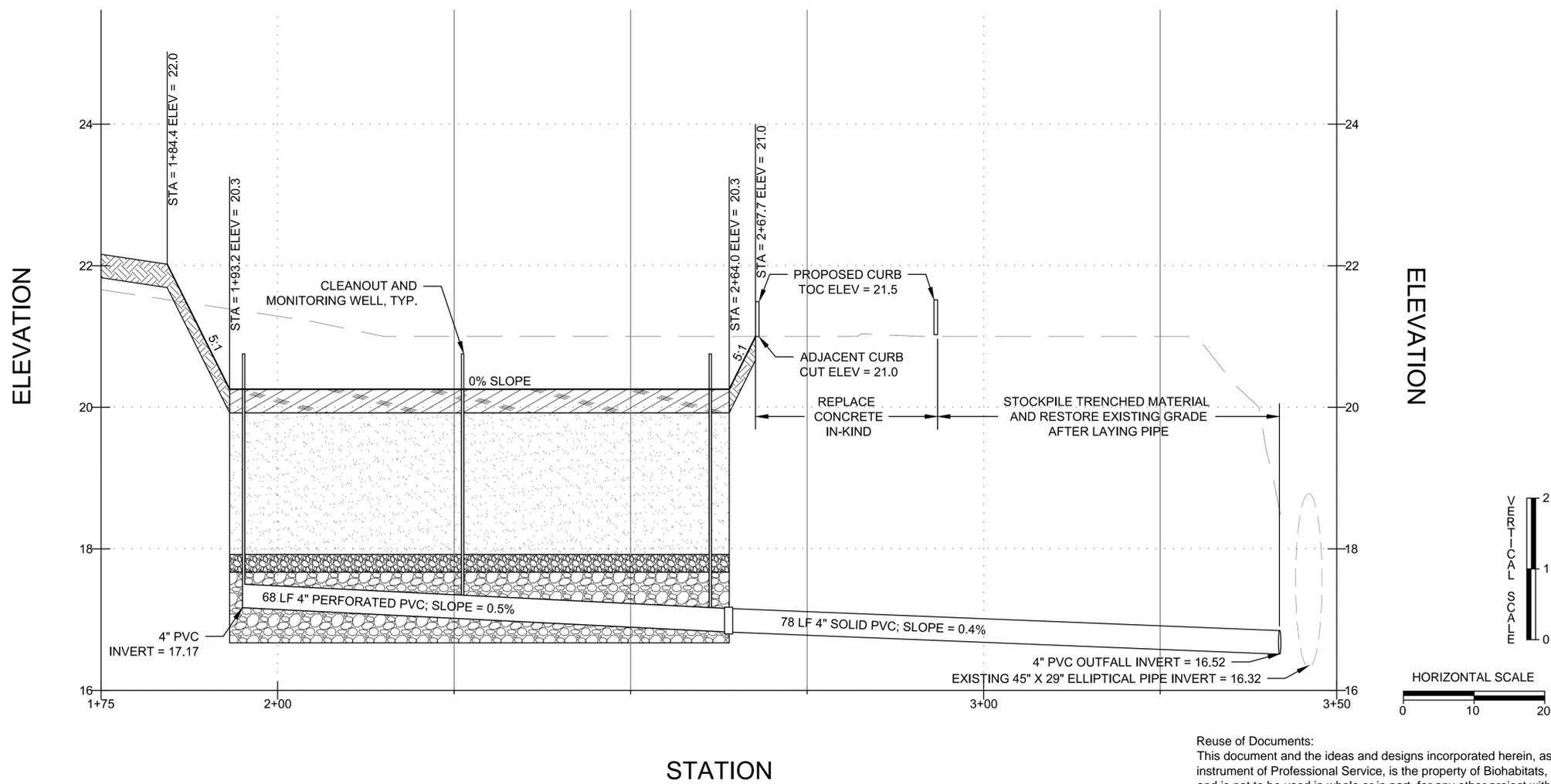
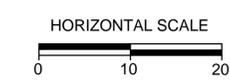
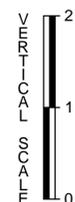
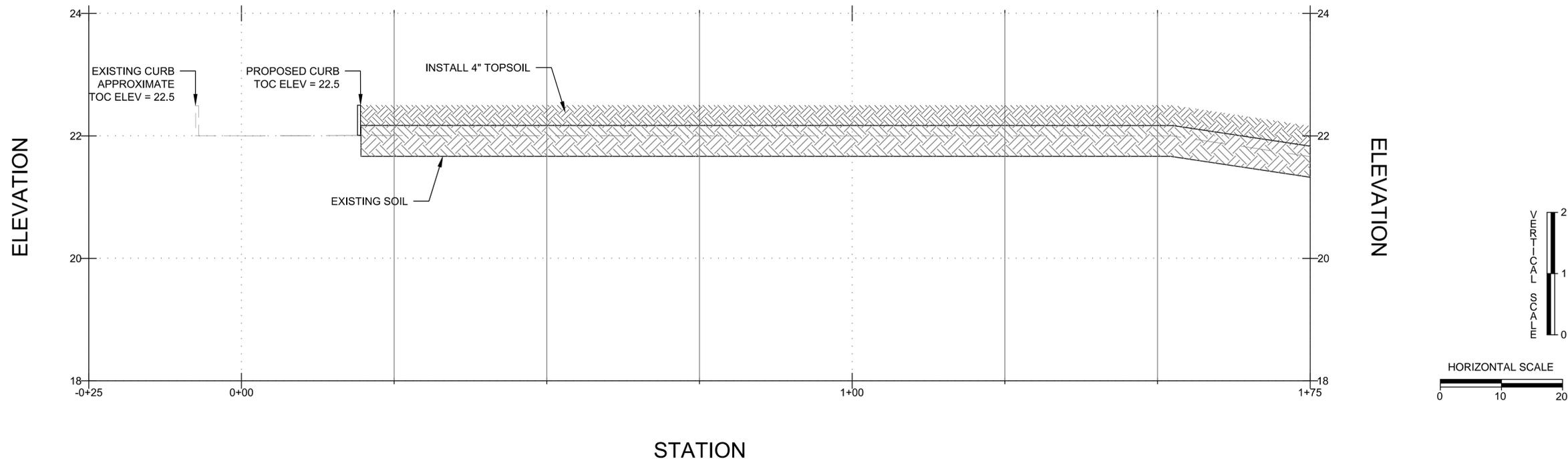


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MATCHLINE - SEE SHEET 4

PROFILE VIEW



PROFILE LEGEND

- EXISTING
- PROPOSED
- TOPSOIL
- MULCH
- BIORETENTION MEDIA
- # 7 STONE
- # 57 STONE

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PROFILE

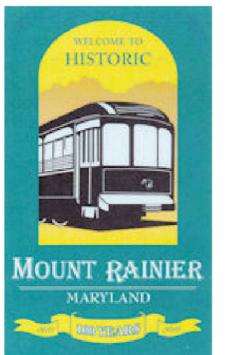
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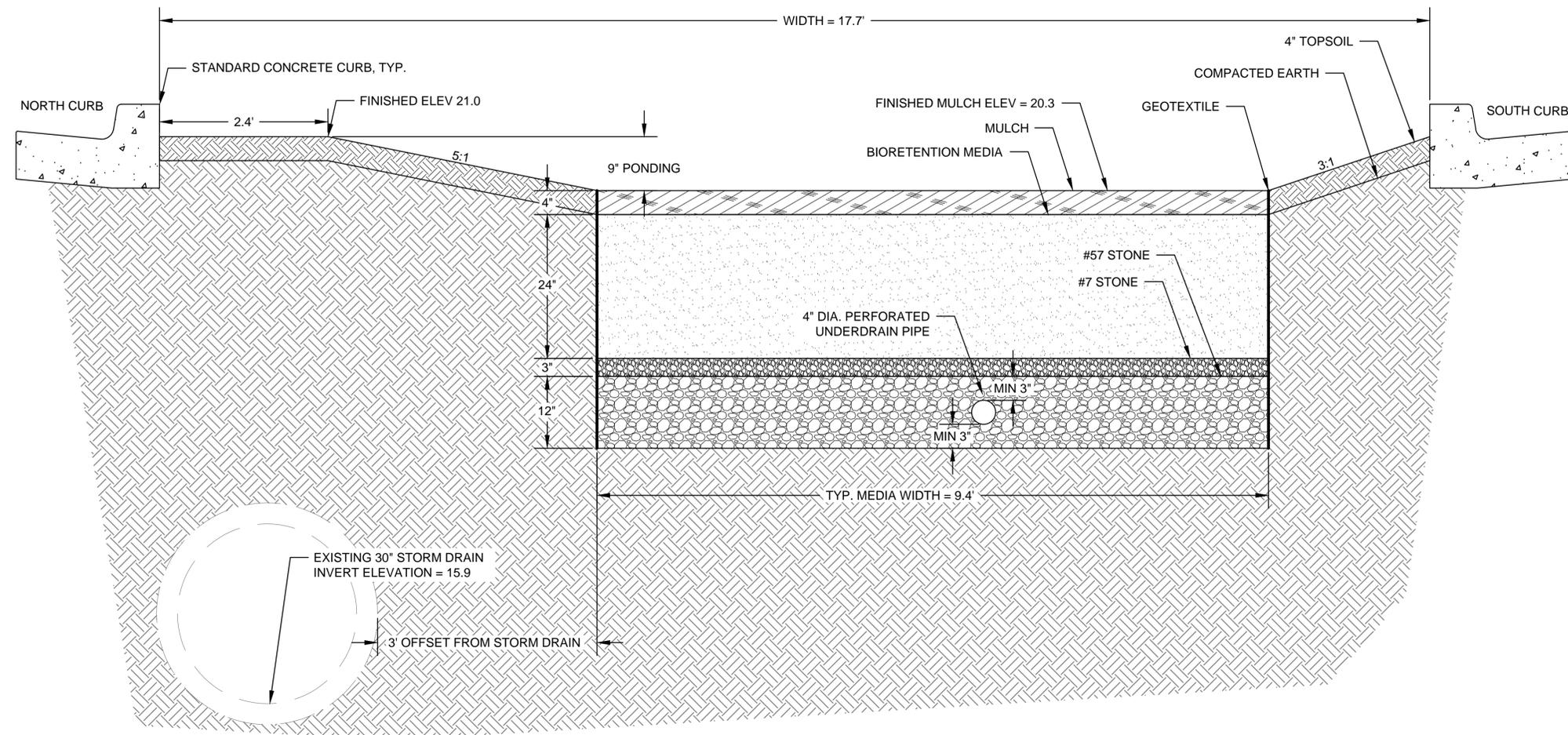


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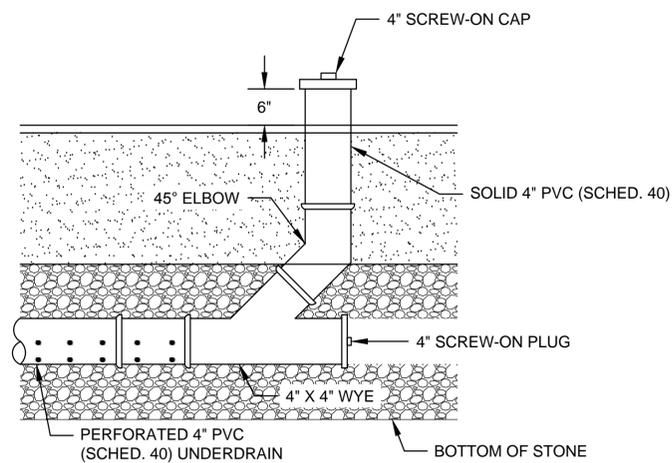
CONSTRUCTION DETAILS

PROJECT NO.: 12013.01 SCALE:
 BY: AL, PJ CHECK: DS
 DWG. NO.:



BIORETENTION SECTION A-A'

NOT TO SCALE



COMBINED CLEANOUT AND MONITORING WELL DETAIL

NOT TO SCALE

COMPONENT	SPECIFICATION	DIMENSION/SIZE	REFERENCE NOTES
TOPSOIL	SEE BELOW		USDA TEXTURAL CLASSIFICATION MUST BE LOAMY SAND or SANDY LOAM
LEAF COMPOST	AGED, WELL AERATED LEAF COMPOST		AN AGED, WELL AERATED LEAF COMPOST
MULCH	SHREDDED HARDWOOD MULCH	MAX. 4" PARTICLE SIZE	UNIFORM TEXTURE FREE FROM SAWDUST, FOREIGN MATERIALS, AND ANY ARTIFICIALLY INTRODUCED CHEMICAL COMPOUNDS
BIORETENTION MEDIA	30% TOPSOIL, 20% LEAF COMPOST, 50% SAND (ASTM C33 FINE AGGREGATE)		SAND SHALL BE WASHED. SEE BELOW FOR PHYSICAL REQUIREMENTS
NO. 57 STONE	AASHTO M-43	1/2"-1" DIAMETER	WASHED STONE
NO. 7 STONE	ASTM D 448	1/4" - 1/2" DIAMETER	
PERFORATED PVC	RIGID SCHEDULE 40 PVC	4" DIAMETER	1/2" PERFORATIONS, 6" C TO C, TOP AND SIDES
SOLID PVC	RIGID SCHEDULE 40 PVC	4" DIAMETER	
COBBLE	SILICA COBBLE	d50 = 6", BETWEEN 4" AND 8" DIAMETER	

THE BIORETENTION MEDIA MUST MEET THE PHYSICAL REQUIREMENTS AS DESCRIBED BELOW:

Item	Criteria	Test Method
CORRECTED Ph	5.5-6.5	ASTM D4972
MAGNESIUM	MINIMUM 32 ppm	*
PHOSPHORUS (PHOSPHATE - P ₂ O ₅)	NOT TO EXCEED 69 ppm	*
POTASSIUM (K ₂ O)	MINIMUM 78 ppm	*
SOLUBLE SALTS	NOT TO EXCEED 500 ppm	*

*USE AUTHORIZED SOIL TEST PROCEDURES

THE USDA TEXTURAL CLASSIFICATION OF THE TOPSOIL MUST BE LOAMY SAND, SANDY LOAM OR LOAM. ADDITIONALLY, TOPSOIL MUST BE TESTED AND MEET THE FOLLOWING CRITERIA:

ITEM	PERCENT BY WEIGHT	TEST METHOD
SAND (2.0 - 0.050 mm)	50 - 85%	AASHTO T88
SILT (0.050 - 0.002 mm)	0 - 50%	AASHTO T88
CLAY (LESS THAN 0.002 mm)	10%	AASHTO T88
ORGANIC MATTER	1.5 - 10%	AASHTO T194

THE TEXTURAL ANALYSIS FOR THE TOPSOIL MUST BE AS FOLLOWS:

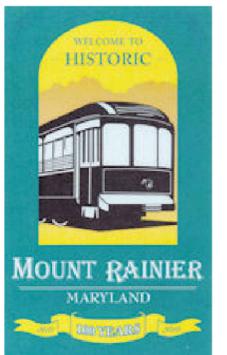
ASTM E11 SIEVE SIZE	MINIMUM PERCENT PASSING BY WEIGHT
2 in.	100%
No. 4	90%
No. 10	80%

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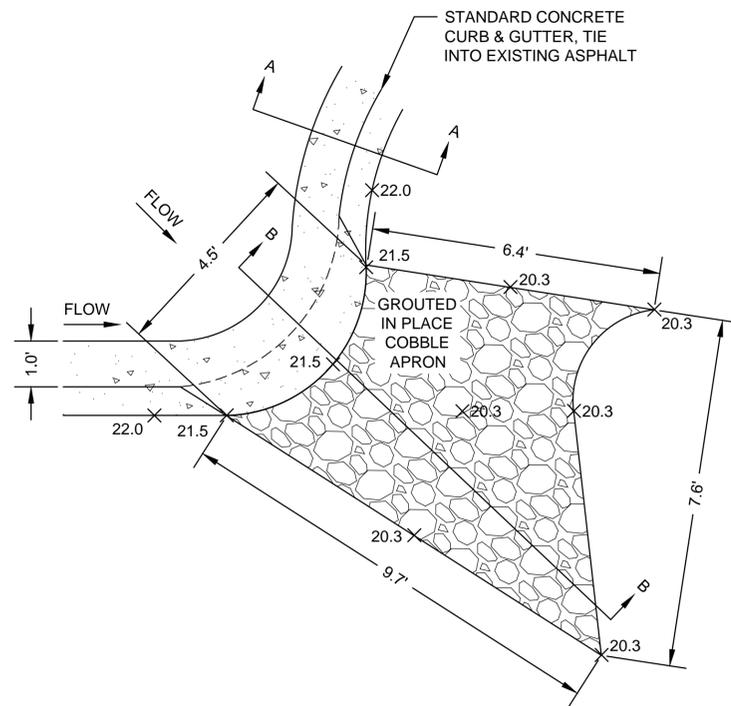


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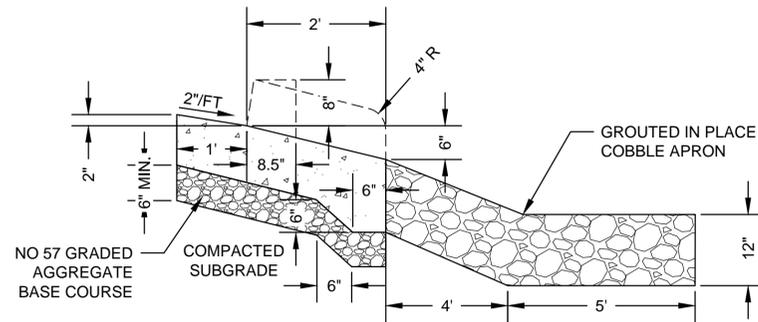
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TITLE: CONSTRUCTION DETAILS

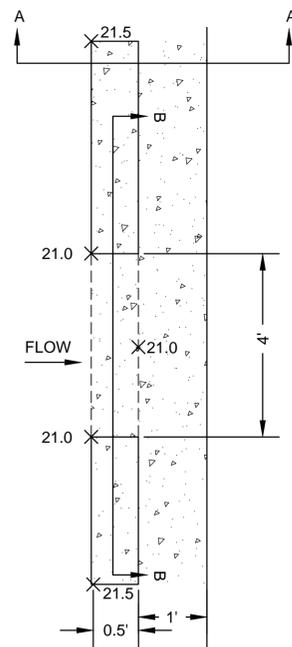
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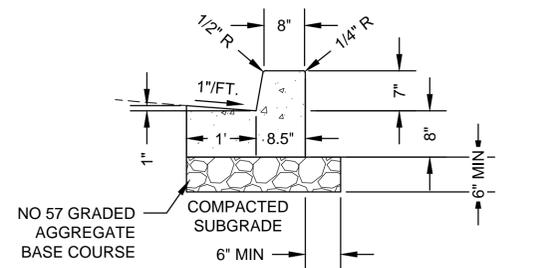
**CURB CUT - FLOW IN
PLAN VIEW** NOT TO SCALE



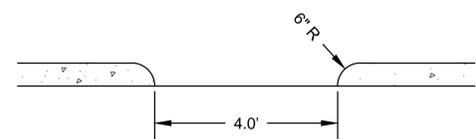
**CURB CUT - FLOW IN
SECTION B-B** NOT TO SCALE



**CURB CUT - FLOW OUT
PLAN VIEW** NOT TO SCALE



**CURB
SECTION A-A** NOT TO SCALE

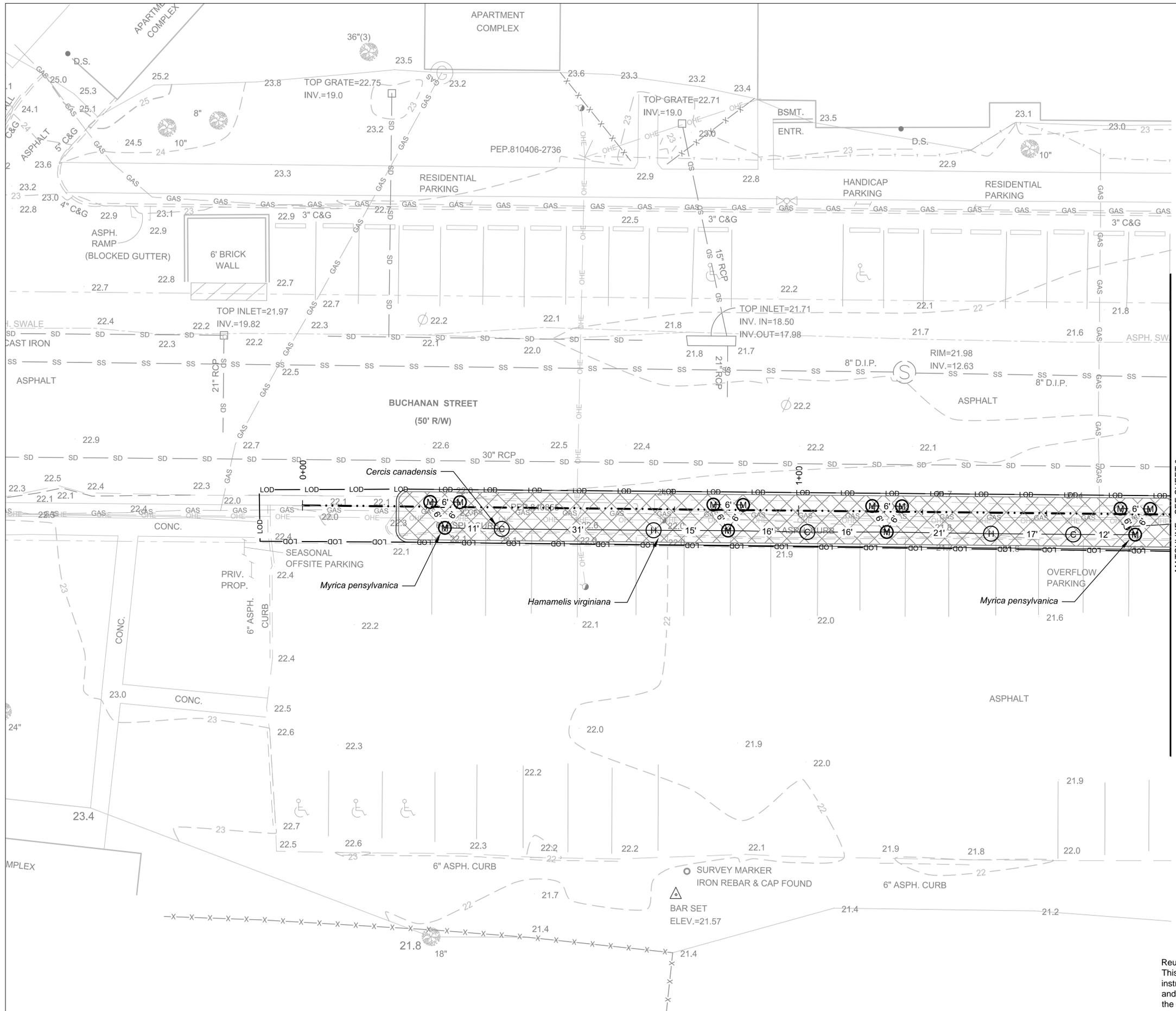


**CURB CUT - FLOW OUT
SECTION B-B** NOT TO SCALE

GENERAL NOTES:

1. MATERIALS AND CONSTRUCTION METHODS SHALL MATCH SHA STANDARD CONCRETE CURB & GUTTER INSTALLATION. CONCRETE SHALL BE 3500 PSI CLASS E CONCRETE.
2. INSTALL BITUMINOUS SEALANT AGAINST FACE OF GUTTER ADJACENT TO ASPHALT PAVEMENT.
3. WHENEVER NEW CONCRETE CURB (AND GUTTER) MEETS EXISTING CONCRETE CURB (AND GUTTER), ASSURE CURBS ARE ON LINE AND ON GRADE.
4. SAWCUT EXISTING PAVEMENT WHERE REMOVAL IS REQUIRED.

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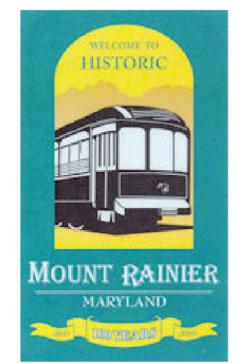


PLANTING LEGEND

-  PLANTING ZONE 1
-  PLANTING ZONE 2
-  PLANTING ZONE 3
-  *Cercis canadensis*
-  *Hamamelis virginiana*
-  *Myrica pensylvanica*
-  *Cornus stolonifera*

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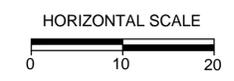


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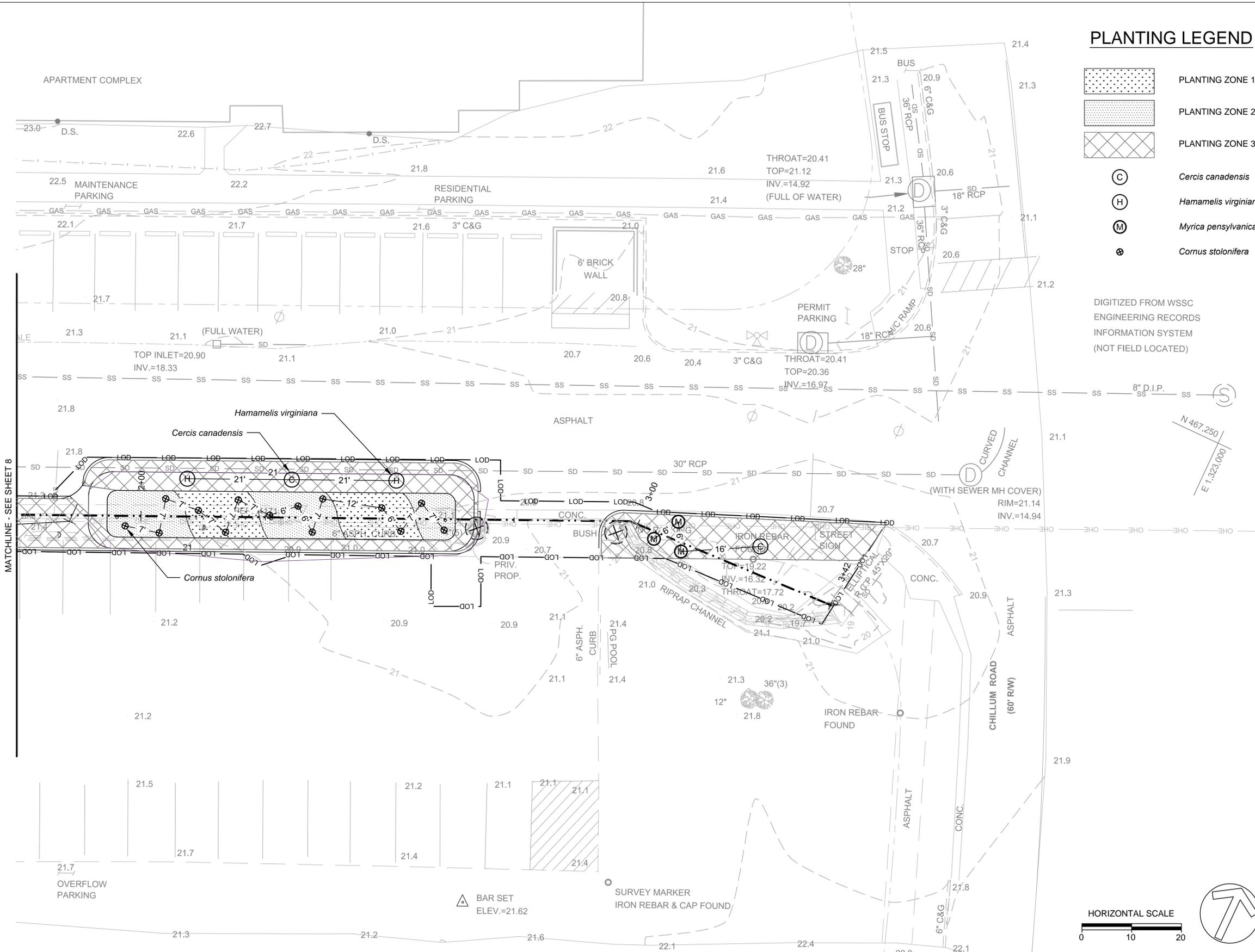
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PLANTING PLAN

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PLANTING LEGEND

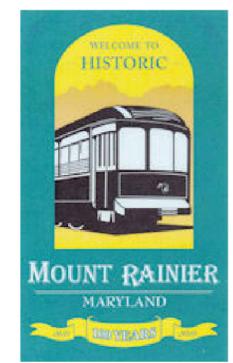
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-  PLANTING ZONE 2
-  PLANTING ZONE 3
-  *Cercis canadensis*
-  *Hamamelis virginiana*
-  *Myrica pensylvanica*
-  *Cornus stolonifera*

DIGITIZED FROM WSSC
ENGINEERING RECORDS
INFORMATION SYSTEM
(NOT FIELD LOCATED)

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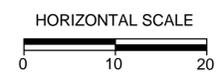


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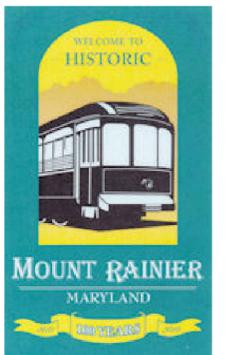


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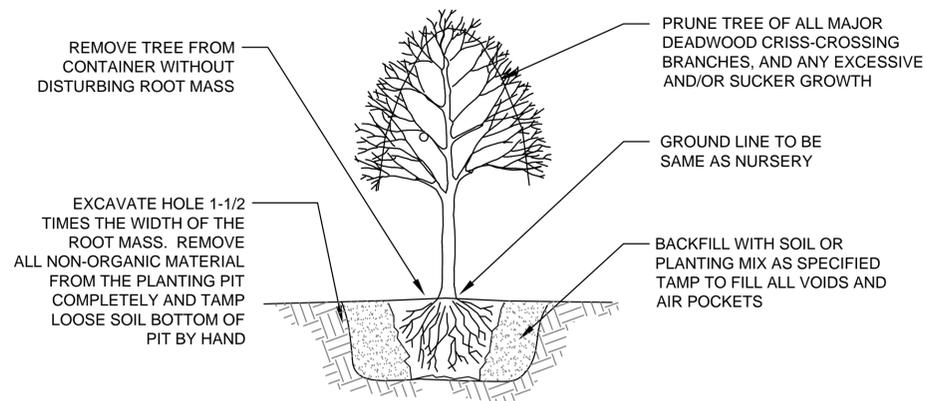
PLANTING DETAILS AND SCHEDULES

PROJECT NO.: 12013.01 SCALE:
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PLANT COMPOSITION SCHEDULE									
ZONE 1 - BIORETENTION									
Size (acres): 0.01									
Overall Minimum Spacing (ft.)	Quantity per acre	Frequency (%)	Species Quantity	Vegetation Strata/ Species Name	Common Name	Unit	Spacing Type	Size	Individual Minimum Spacing (ft.)
SHRUBS									
			5	<i>Comus stolonifera</i>	Red twig dogwood	CON	See Plan	2 - 3 ft.	See Plan
			5	= total					
2	10890			NATIVE PLUG					
		20	14	<i>Onoclea sensibilis</i>	Sensitive fern	PLUG	Clump	2"	5
		20	14	<i>Aster novae-angliae</i>	New England aster	PLUG	Clump	2"	5
		20	14	<i>Asclepias incarnata</i>	Swamp milkweed	PLUG	Clump	2"	5
		20	14	<i>Eupatorium fistulosum</i>	Joe pye weed	PLUG	Clump	2"	5
		20	14	<i>Packera paupercula</i>	Balsam ragwort	PLUG	Clump	2"	5
		100	70	= total					

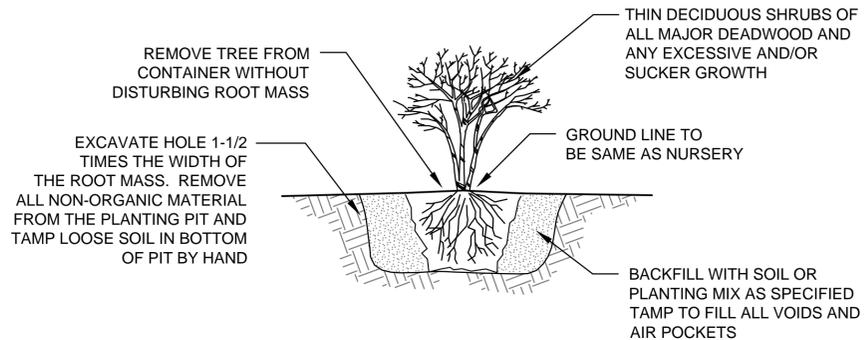
PLANT COMPOSITION SCHEDULE									
ZONE 2 - BIORETENTION									
Size (acres): 0.01									
Overall Minimum Spacing (ft.)	Quantity per acre	Frequency (%)	Species Quantity	Vegetation Strata/ Species Name	Common Name	Unit	Spacing Type	Size	Individual Minimum Spacing (ft.)
SHRUBS									
			9	<i>Comus stolonifera</i>	Red twig dogwood	CON	See Plan	2 - 3 ft.	See Plan
			9	= total					
2	10890			NATIVE PLUG					
		20	18	<i>Solidago rugosa</i>	Wrinkleleaf goldenrod	PLUG	Clump	2"	5
		20	18	<i>Rudbeckia laciniata</i>	Green-headed coneflower	PLUG	Clump	2"	5
		25	23	<i>Chasmanthium latifolium</i>	River oats	PLUG	Clump	2"	4
		25	23	<i>Elymus virginicus</i>	Virginia wild rye	PLUG	Clump	2"	4
		10	9	<i>Lobelia cardinalis</i>	Cardinal flower	PLUG	Clump	2"	6
		100	91	= total					

PLANT COMPOSITION SCHEDULE									
ZONE 3 - UPLAND									
Size (acres): 0.06									
Overall Minimum Spacing (ft.)	Quantity per acre	Frequency (%)	Species Quantity	Vegetation Strata/ Species Name	Common Name	Unit	Spacing Type	Size	Individual Minimum Spacing (ft.)
SMALL TREES									
			5	<i>Cercis canadensis</i>	Eastern redbud	B&B	See Plan	1" CAL	See Plan
			4	<i>Hamamelis virginiana</i>	Witchhazel	B&B	See Plan	1" CAL	See Plan
			9	= total					
SHRUBS									
			15	<i>Myrica pensylvanica</i>	Northern Bayberry	CON	See Plan	2 - 3 ft.	See Plan
			15	= total					
2	10890			NATIVE PLUG					
		10	69	<i>Baptisia australis</i>	Blue false indigo	PLUG	Clump	2"	6
		10	69	<i>Dennstaedtia punctilobula</i>	Hay-scented fern	PLUG	Clump	2"	6
		10	69	<i>Rudbeckia hirta</i>	Black eyed susan	PLUG	Clump	2"	6
		10	69	<i>Asclepias tuberosa</i>	Butterfly weed	PLUG	Clump	2"	6
		10	69	<i>Aquilegia canadensis</i>	Wild columbine	PLUG	Clump	2"	6
		10	69	<i>Solidago sphacelata</i>	Creeping goldenrod	PLUG	Clump	2"	6
		10	69	<i>Aster novae-angliae</i>	New England aster	PLUG	Clump	2"	6
		10	69	<i>Phlox subulata</i>	Moss phlox	PLUG	Clump	2"	6
		10	69	<i>Schizachyrium scoparium</i>	Little bluestem	PLUG	Clump	2"	6
		5	35	<i>Sorghastrum nutans</i>	Indiangrass	PLUG	Clump	2"	9
		5	35	<i>Chasmanthium latifolium</i>	River oats	PLUG	Clump	2"	9
		100	70	= total					



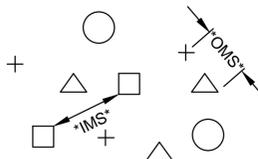
TREE PLANTING - CONTAINER GROWN

NOT TO SCALE



SHRUB PLANTING - CONTAINER GROWN

NOT TO SCALE



OMS- AN OVERALL MINIMUM SPACING DISTANCE *OMS* IS ASSIGNED TO THE PLANTING CONFIGURATION *SEE PLANT SCHEDULE*
 IMS- AN INDIVIDUAL MINIMUM SPACING DISTANCES *IMS* IS ASSIGNED TO EACH INDIVIDUAL SPECIES *SEE PLANT SCHEDULE*

PLANT SPACING - RANDOM

NOTE: EACH SYMBOL INDICATES A DIFFERENT SPECIES

PLAN VIEW

NOT TO SCALE

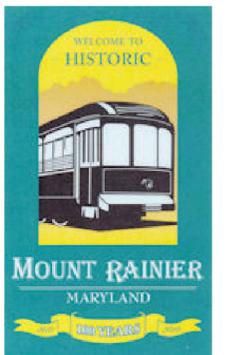
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BUCHANAN GREEN STREET PROJECT

04-01-2013 90% SUBMITTAL
 11-06-2012 30% SUBMITTAL
 10-16-2012 CONCEPT SUBMITTAL

DATE ISSUES / REVISIONS

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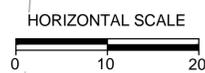
BUCHANAN GREEN STREET PROJECT

EROSION AND SEDIMENT CONTROL PLAN

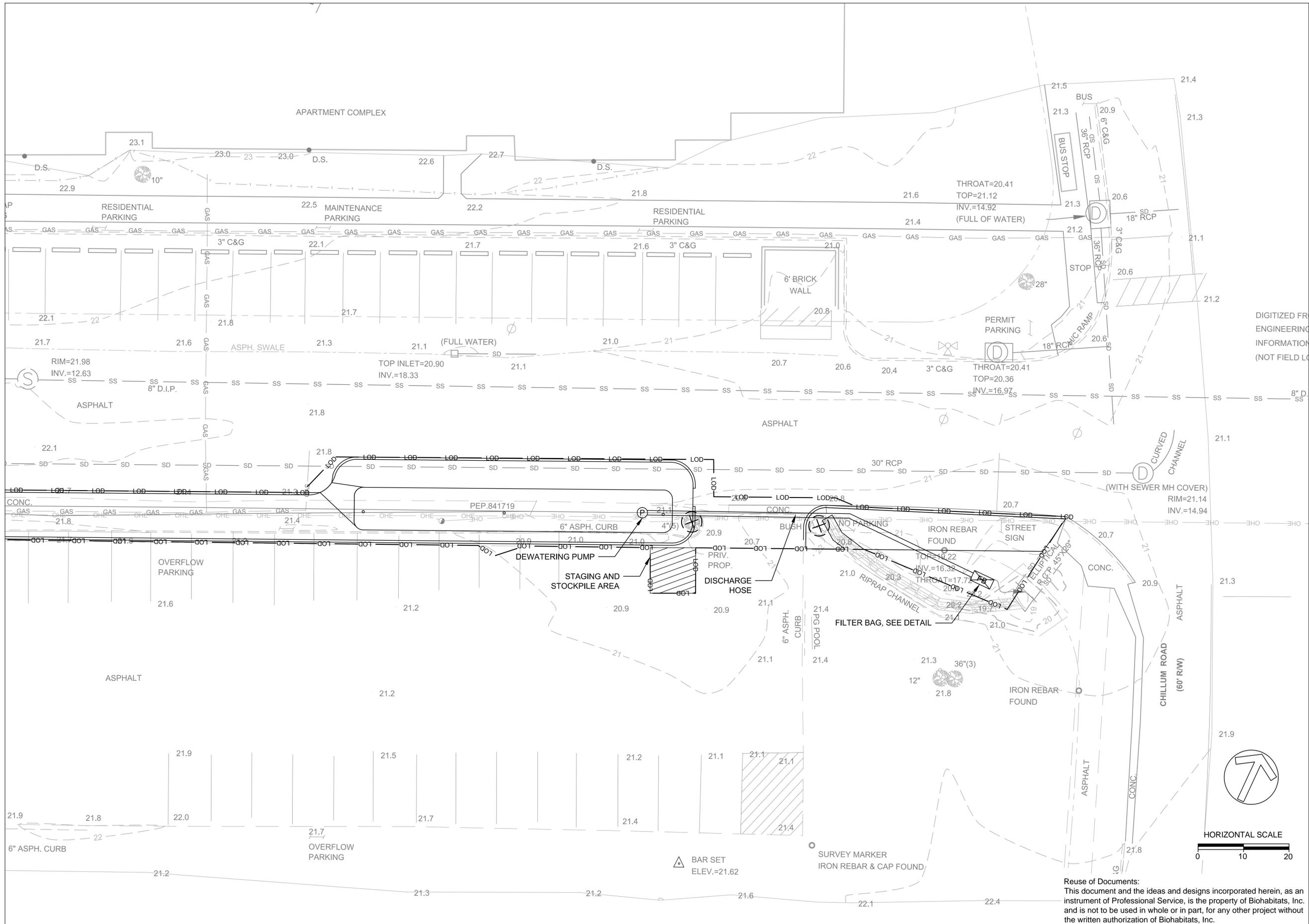
PROJECT NO.: 12013.01

SCALE:

SEAL: BY: AL, PJ CHECK: DS
 DWG. NO.:

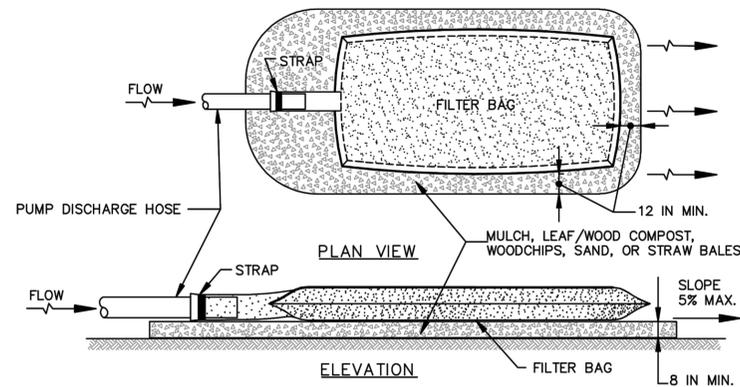


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DETAIL F-4 FILTER BAG

STANDARD SYMBOL



CONSTRUCTION SPECIFICATIONS

- TIGHTLY SEAL SLEEVE AROUND THE PUMP DISCHARGE HOSE WITH A STRAP OR SIMILAR DEVICE.
- PLACE FILTER BAG ON SUITABLE BASE (E.G., MULCH, LEAF/WOOD COMPOST, WOODCHIPS, SAND, OR STRAW BALES) LOCATED ON A LEVEL OR 5% MAXIMUM SLOPING SURFACE. DISCHARGE TO A STABILIZED AREA. EXTEND BASE A MINIMUM OF 12 INCHES FROM EDGES OF BAG.
- CONTROL PUMPING RATE TO PREVENT EXCESSIVE PRESSURE WITHIN THE FILTER BAG IN ACCORDANCE WITH THE MANUFACTURER RECOMMENDATIONS. AS THE BAG FILLS WITH SEDIMENT, REDUCE PUMPING RATE.
- REMOVE AND PROPERLY DISPOSE OF FILTER BAG UPON COMPLETION OF PUMPING OPERATIONS OR AFTER BAG HAS REACHED CAPACITY, WHICHEVER OCCURS FIRST. SPREAD THE DEWATERED SEDIMENT FROM THE BAG IN AN APPROVED UPLAND AREA AND STABILIZE WITH SEED AND MULCH BY THE END OF THE WORK DAY. RESTORE THE SURFACE AREA BENEATH THE BAG TO ORIGINAL CONDITION UPON REMOVAL OF THE DEVICE.
- USE NONWOVEN GEOTEXTILE WITH DOUBLE STITCHED SEAMS USING HIGH STRENGTH THREAD. SIZE SLEEVE TO ACCOMMODATE A MAXIMUM 4 INCH DIAMETER PUMP DISCHARGE HOSE. THE BAG MUST BE MANUFACTURED FROM A NONWOVEN GEOTEXTILE THAT MEETS OR EXCEEDS MINIMUM AVERAGE ROLL VALUES (MARV) FOR THE FOLLOWING:

GRAB TENSILE	250 LB	ASTM D-4632
PUNCTURE	150 LB	ASTM D-4833
FLOW RATE	70 GAL/MIN/FT ²	ASTM D-4491
PERMITTIVITY (SEC ⁻¹)	1.2 SEC ⁻¹	ASTM D-4491
UV RESISTANCE	70% STRENGTH @ 500 HOURS	ASTM D-4355
APPARENT OPENING SIZE (AOS)	0.15-0.18 MM	ASTM D-4751
SEAM STRENGTH	90%	ASTM D-4632
- REPLACE FILTER BAG IF BAG CLOGS OR HAS RIPS, TEARS, OR PUNCTURES. DURING OPERATION KEEP CONNECTION BETWEEN PUMP HOSE AND FILTER BAG WATER TIGHT. REPLACE BEDDING IF IT BECOMES DISPLACED.

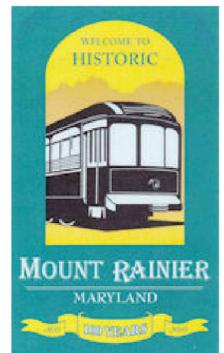
MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION
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**BUCHANAN
GREEN STREET
PROJECT**

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**BUCHANAN
GREEN STREET
PROJECT**

TITLE:
**EROSION AND SEDIMENT
CONTROL DETAILS**

PROJECT NO.:	12013.01	SCALE:	
SEAL:		BY:	AL, PJ
		CHECK:	DS
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GENERAL STORM DRAIN AND PAVING NOTES

1. INFORMATION CONCERNING UNDERGROUND UTILITIES WAS OBTAINED FROM AVAILABLE RECORDS, BUT THE CONTRACTOR MUST DETERMINE THE EXACT LOCATION AND ELEVATION OF THE MAINS BY DIGGING TEST PITS, BY HAND OR VACUUM, AT UTILITY CROSSINGS WELL IN ADVANCE OF TRENCHING. IF CLEARANCES TO WATER AND SEWER LINES ARE LESS THAN SHOWN ON THIS PLAN, OR LESS THAN TWELVE (12) INCHES, CONTACT THE DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION (DPW&T) INSPECTOR BEFORE PROCEEDING WITH CONSTRUCTION.
2. ALL STORM DRAINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST EDITION OF THE STORMWATER MANAGEMENT STANDARDS AND SPECIFICATIONS OF PRINCE GEORGE'S COUNTY DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION.
3. FOR TYPES OF STORM DRAIN STRUCTURES, REFER TO THE LATEST STANDARD DETAILS OF PRINCE GEORGE'S COUNTY DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION, UNLESS OTHERWISE NOTED.
4. ALL ROADWAY CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE FOLLOWING: THE DPW&T SPECIFICATIONS AND STANDARDS FOR ROADWAYS AND BRIDGES; THE PRINCE GEORGE'S COUNTY CODE, SUBTITLE 23, ROAD ORDINANCE; AND THE PRINCE GEORGE'S COUNTY POLICY AND SPECIFICATION FOR UTILITY INSTALLATION AND MAINTENANCE.
5. PRIOR TO DIGGING WITHIN THE ROADWAY, CALL "MISS UTILITY" TOLL FREE AT (800) 257-7777 FOR UTILITY LOCATION AT LEAST 48 HOURS BEFORE BEGINNING CONSTRUCTION.
6. PRIOR TO STARTING ANY WORK SHOWN ON THIS PLAN, THE PERMITEE SHALL ARRANGE A PRE-CONSTUCION MEETING WITH THE DPW&T INSPECTOR BY CALLING (301) 883-5730.
7. IN ACCORDANCE WITH SECTION 23-128, THE COUNTY'S ROAD ORDINANCE, A PROJECT SIGN SHALL BE POSTED PROMINENTLY DESCRIBING THE FOLLOWING:
 - SUBDIVISION NAME (AS SHOWN ON PERMIT APPLICATION)
 - OWNER/PERMITEE NAME
 - OWNER/PERMITEE ADDRESS AND PHONE
 - DPW&T PERMIT NUMBER
8. ALL ELEVATIONS SHOWN ON THIS PLAN ARE IN ACCORDANCE WITH THE FOLLOWING: HORIZONTAL - MARYLAND COORDINATE SYSTEM (STATE PLANE GRID) BASED ON NORTH AMERICAN DATUM OF 1983 (NAD 83); VERTICAL-NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
9. TEMPORARY TRAFFIC CONTROL AND PERMANENT TRAFFIC SIGNS SHALL CONFORM TO THE LATEST EDITION OF THE FEDERAL HIGHWAY ADMINISTRATION'S *MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES* (MUTCD).
10. IT SHALL BE THE RESPONSIBILITY OF THE PERMITEE TO ARRANGE FOR THE ADJUSTMENT OR RELOCATION OF ALL UTILITIES.
11. ALL UNSUITABLE MATERIAL MUST BE REMOVED AND REPLACED WITH SUITABLE MATERIAL TO A DEPTH AS DIRECTED BY THE GEOTECHNICAL ENGINEER, THE DPW&T INSPECTOR, AND/OR THE DEPARTMENT'S ENGINEER.
12. EXCAVATION AND PLACEMENT OF FILL MATERIAL SHALL BE PERFORMED UNDER THE SUPERVISION OF A MARYLAND-LICENSED ENGINEER.
13. THE PERMITEE WILL BE REQUIRED TO FURNISH COMPACTION REPORTS CERTIFIED BY A MARYLAND-LICENSED ENGINEER ON EACH LAYER OF FILL MATERIAL PRIOR TO PLACING SUBSEQUENT LAYERS.
14. DURING THE PLACEMENT OF A STANDARD PAVEMENT SECTION, NO PAVEMENT COURSE OR STONE LIFT SHALL BE PLACED UNTIL THE UNDERLYING COURSE OR SUBGRADE IS APPROVED BY THE DPW&T INSPECTOR. THE APPROVAL SHALL EXPIRE IF TRAFFIC OR INCLEMENT WEATHER AFFECTS THE SITE PRIOR TO PAVING.
15. AS SOON AS THE ASPHALT BASE COURSE IS APPROVED, THE INTERMEDIATE ASPHALT COURSE SHALL BE PLACED IMMEDIATELY OVER IT TO FORM A PROTECTIVE SEAL.
16. TEMPORARY STREET NAME SIGN INSTALLATION AND MAINTENANCE IS THE OBLIGATION OF THE PERMITEE ONCE BASE PAVING IS COMPLETED
17. WHERE ROADWAY CONSTRUCTION IS ON OR IN THE VICINITY OF AN EXISTING ROAD, IN-KIND PAVEMENT MARKING AND STRIPING REPLACEMENT (E.G., THERMOPLASTIC, PAINTED, ETC.) IS REQUIRED. ALSO, APPROPRIATE PAVEMENT MARKING AND STRIPING SHALL BE PROVIDED IN THE AREA OF PAVEMENT WIDENING AND/OR RECONSTRUCTION AND/OR OVERLAY OF AN EXISTING ROAD.
18. SAW CUT AND MILL A 2-INCH DEEP, 10-FOOT-WIDE NOTCH AT EXISTING EDGE OF PAVEMENT WHERE IT IS NECESSARY TO CONNECT TO OR TO EXTEND AN EXISTING ROAD. OVERLAY AT POINT OF TIE-IN TO ENSURE A SMOOTH TRANSITION AND POSITIVE DRAIN-AGE.
19. WHERE IT IS NECESSARY TO WIDEN AN EXITING ROAD, AND MILLING AND OVERLAY REQUIREMENTS HAVE BEEN WAIVED OR REDUCED, THE FOLLOWING EDGE TREATMENT SHALL BE USED AT THE PROPOSED WIDENING OF EXISTING ROAD:
 - A. SAW CUT EDGE OF EXISTING PAVEMENT TO SET STRAIGHT EDGE.
 - B. PLACE APPROVED SUBGRADE AND SUBBASE FOR FULL WIDENING.
 - C. PLACE ASPHALT FOR FULL WIDENING (BASE COURSE ONLY).
 - D. MILL ADDITIONAL 1-FOOT MINIMUM WIDTH INTO EXISTING SURFACE FOR DEPTH OF FINAL SURFACE COURSE (MILLING MUST REMOVE EXISTING WHITE STRIPE AT EDGE OF EXISTING ROAD). LIMITS OF MILLING MAY BE EXTENDED, IF NECESSARY.
 - E. PLACE ASPHALT FOR FULL WIDENING PLUS THIS ADDITIONAL 1 FOOT INTO EXISTING SURFACE (FINAL SURFACE COURSE).
20. ALL RESIDENTIAL ROADWAY FILLET RADII SHALL BE AT LEAST 37 FEET, UNLESS OTHERWISE NOTED. ROADWAYS WITH HIGHER CLASSIFICATION REQUIRE 45 FEET AND/OR 50 FEET RADII.
21. AN UNDERDRAIN SYSTEM IS REQUIRED FOR THE FULL LENGTH OF ALL PROPOSED AND MODIFIED ROADWAYS, ON BOTH SIDES, AND TO THE LIMITS OF THE PERMIT SHOWN ON THIS PLAN.
22. ALL CURB AND GUTTER SHALL BE CONSTRUCTED IN ACCORDANCE WITH DPW&T STANDARD NO. 300.01 UNLESS DIRECTED OTHERWISE BY THE DEPARTMENT.
23. BRICK CHANNELIZATION IS REQUIRED IN ALL PUBLIC DPW&T STORM DRAIN STRUCTURES. CONCRETE CHANNELIZATION IS NOT ALLOWED.
24. POSITIVE DRAINAGE SHALL BE MAINTAINED THROUGHOUT THE AREA COVERED BY THIS PERMIT AND THROUGH ADJACENT PROPERTY FRONTAGES.
25. ALL UNPAVED AREAS WITHIN THE RIGHT-OF-WAY SHALL BE SODDED.
26. ALL SIDEWALK RAMPS SHOWN ON THIS PLAN SHALL BE CONSTRUCTED IN ACCORDANCE WITH DPW&T STANDARDS 300.05-300.10 AND SHALL COMPLY WITH THE LATEST REVISION TO THE FEDERAL ACCESSIBILITY GUIDELINES OF AMERICANS WITH DISABILITIES ACT.
27. ALL SIDEWALKS SHOWN ON THIS PLAN SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST DPW&T STANDARDS AND SHALL COMPLY WITH THE LATEST REVISION TO THE FEDERAL ACCESSIBILITY GUIDELINES OF AMERICANS WITH DISABILITIES ACT.
28. ALL SIDEWALKS (EXCEPT AS NOTED HEREIN) ARE TO BE CONSTRUCTED BY THE
 - SITE DEVELOPER.
 - HOME BUILDER.
29. SIDEWALKS ALONG FRONTAGES OF OPEN-SPACE PARCELS AND THOSE NOT COVERED BY A SINGLE-FAMILY BUILDING PERMIT SHALL BE CONSTRUCTED UNDER THIS STREET CONSTRUCTION PERMIT.
30. THE WIDTH OF A RESIDENTIAL DRIVEWAY APRON AT THE PROPERTY LINE SHALL NOT BE LESS THAN THE WIDTH OF THE ON-SITE PARKING PAD AT ITS WIDEST POINT, A MAXIMUM WIDTH OF 20 FEET, AND A MINIMUM WIDTH OF 10 FEET. A RESIDENTIAL DRIVEWAY APRON FLARE SHALL NOT BE CONSTRUCTED CLOSER THAN 3.5 FEET TO THE NEAREST ABUTTING PROPERTY LINE.

31. ALL DRIVEWAY APRONS ARE TO BE CONSTRUCTED BY THE
 - SITE DEVELOPER.
 - HOME BUILDER.
32. ENSURE THAT STREET TREES ARE NO CLOSER THAN 1 FOOT TO THE RIGHT-OF-WAY LINE, IN AN OPEN SPACE SECTION CONFIGURATION, AND NO CLOSER THAN 15 FEET FROM STREET LIGHT OR POLE, AND OF APPROPRIATE HEIGHT SO AS NOT TO INTERFERE WITH EXISTING OR PROPOSED OVERHEAD UTILITY LINES. ALL STREETSCAPE PLANTING SHALL BE IN ACCORDANCE WITH DPW&T STANDARDS 600.01-600.02 UNLESS DIRECTED OTHERWISE BY THE DEPARTMENT.
33. PAVEMENT CORING OF ALL PAVEMENT COURSES WILL BE REQUIRED OF THE PERMITEE USING THE FOLLOWING PROCESS:
 - A. 48 HOURS PRIOR TO CORING, PERMITEE CONTACTS INSPECTOR REQUESTING DEMARCATION OF CORE LOCATIONS AND PROVIDING PAVING INFORMATION NEEDED FOR THE DPW&T CORE TESTING REQUEST (CTR) FORM.
 - B. INSPECTOR RANDOMLY SELECTS AND MARKS CORE LOCATIONS. INSPECTOR WILL INITIAL EACH CORE WITH KEEL MARKER AND THEN MARK WITH SPRAY PAINT TO ENSURE THAT THE CORE THAT GOES TO THE LAB HAS COME FROM THE SELECTED LOCATION. NOTE THAT THE LOCATION OF CORES OR CORING OF THE PAVEMENT IS PERMITTED ON THE SAME DAY THAT THE PAVING HAS OCCURRED.
 - C. AFTER CORING, INSPECTOR VERIFIES THAT CORED LOCATIONS ARE THE SAME AS MARKED (DOES NOT ABSOLUTELY HAVE TO BE PRESENT TO WITNESS).
 - D. PERMITEE DELIVERS CORES TO THE MATERIALS LAB WITHIN 24 HOURS FROM PAVING. NOTE: THE PERMITEE MAY SUBMIT CORES TO A COUNTY PRE-APPROVED PRIVATE MATERIALS LAB FOR ANALYSIS. RESULTS ARE THEN SUBMITTED DIRECTLY TO THE COUNTY MATERIALS LAB.
 - E. COUNTY MATERIALS LAB PERFORMS ANALYSIS. THE PERMITEE MAY USE AN ACCREDITED PRIVATE LAB TO PERFORM THE ANALYSIS.
 - F. COUNTY MATERIALS LAB PROVIDES RESULTS TO INSPECTOR AND MAELS TO PERMITEE.
34. PERMITEE SHALL SUBMIT PROPERTY CORNER CERTIFICATIONS AND UTILIZE METAL PROPERTY MARKERS PER PRINCE GEORGE'S COUNTY CODE, SECTION 24-120, PRIOR TO ACCEPTANCE OF STREETS.
35. WASHINGTON SUBURBAN SANITARY COMMISSION 200 FOOT SHEET NO.:
36. DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION STORMWATER CONCEPT APPROVAL NUMBER: _____
37. SEDIMENT CONTROL APPROVAL NUMBER: _____
38. PRELIMINARY PLAN APPROVAL NUMBER: _____
39. RECORD PLAT RECORDING NUMBER: _____
40. APPROVED STREET GRADE ESTABLISHMENT INFORMATION: _____

ORIGINAL STREET NAME	APPROVAL NUMBER

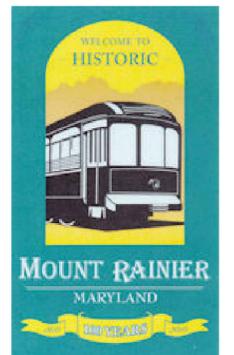
41. AT THE TIME OF PERMIT RELEASE, THE FOLLOWING MINIMUM SUBMITTAL REQUIREMENTS WHERE APPLICABLE SHALL APPLY:
 - WASHINGTON SUBURBAN SANITARY COMMISSION PAVING CLEARANCE CERTIFICATION;
 - BITUMINOUS CONCRETE CORE CERTIFICATIONS, ALL PAVEMENT COURSES;
 - PROPERTY MARKER CERTIFICATION
 - DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION LETTER APPROVING STORM DRAIN AS-BUILT
 - TREE APPROVAL AND TREE BOND POSTED, IF NECESSARY;
 - STREET LIGHT PROOF OF PAYMENT (MUST BE ACCOMPANIED BY A MEMORANDUM FROM DPW&T'S TRAFFIC SAFETY DIVISION ACCEPTING THE PROOF OF PAYMENT); AND
 - PROFF/STATEMENT THAT ALL FINANCIAL MATTERS HAVE BEEN SETTLED.
42. THE PERMITEE IS RESPONSIBLE FOR THE DESIGN AND INSTALLATION OF ALL TRAFFIC SIGNS, TRAFFIC SIGNALS, AND ROADWAY MARKINGS FOR ROADWAY IMPROVEMENTS ON SUBDIVISION ACCESS ROADS WHICH INCLUDE ARTERIAL, COLLECTOR, INDUSTRIAL, AND ANY NECESSARY OFFSITE CONDITIONS WHICH REQUIRE ROADWAY IMPROVEMENTS. THE DESIGN AND/OR CONSTRUCTION DRAWINGS SHALL BE INCLUDED ALONG WITH THE PERMIT PLANS, AND SHALL BE REVIEWED THE DEPARTMENT'S TRAFFIC SAFETY DIVISION PRIOR TO PERMIT ISSUANCE.
43. THE PERMITEE IS RESPONSIBLE FOR THE DESIGN AND INSTALLATION OF ALL TRAFFIC MARKINGS, TRAFFIC SIGNALS, IF REQUIRED, AND PAYMENT OF FEE FOR STREET NAME SIGNS ON INTERNAL SUBDIVISION STREETS. TRAFFIC SIGNS WILL BE FURNISHED AND INSTALLED BY COUNTY FORCES.

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BUCHANAN GREEN STREET PROJECT

TITLE: GENERAL NOTES

PROJECT NO.:	12013.01	SCALE:	
SEAL:		BY:	AL, PJ
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SEQUENCE OF CONSTRUCTION

NOTES:
 PRIOR TO STARTING ANY WORK SHOWN ON THIS PLAN, THE PERMITTEE SHALL ARRANGE A PRE-CONSTRUCTION MEETING WITH THE DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION (DPW&T) INSPECTOR BY CALLING (301) 883-5730. WORK MAY NOT COMMENCE UNTIL THE PERMITTEE OR THE RESPONSIBLE PARTY HAVE MET ON SITE WITH THE SEDIMENT AND EROSION CONTROL INSPECTOR TO REVIEW THE APPROVED PLANS.

CONSTRUCTION ACTIVITIES INCLUDING THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES SHALL NOT BEGIN UNTIL ALL REQUIRED EASEMENTS AND RIGHT-OF-WAYS HAVE BEEN OBTAINED. CONSTRUCTION SHALL NOT BEGIN UNTIL ALL SEDIMENT AND EROSION CONTROL MEASURES HAVE BEEN INSTALLED AND APPROVED BY THE ENGINEER AND THE SEDIMENT CONTROL INSPECTOR. THE CONTRACTOR SHALL STAY WITHIN THE LIMIT OF DISTURBANCE AS SHOWN ON THE PLANS AND MINIMIZE DISTURBANCE WITHIN THE WORKING AREA WHEREVER POSSIBLE. NO TREES SHALL BE REMOVED WITHIN THE LIMIT OF DISTURBANCE WITHOUT APPROVAL FROM THE ENGINEER. THE CONSTRUCTION SEQUENCE MUST BE FOLLOWED UNLESS THE CONTRACTOR GETS WRITTEN APPROVAL FROM THE SEDIMENT AND EROSION CONTROL INSPECTOR.

THROUGHOUT THE TIMEFRAME OF CONSTRUCTION THE CONTRACTOR SHALL BE RESPONSIBLE FOR ASSURING THAT THE SEDIMENT CONTROL MEASURES ARE FUNCTIONAL ON A DAY TO DAY BASIS. NO DISTURBED AREAS ARE TO BE ALLOWED TO DRAIN DIRECTLY OFF SITE. DISTURBED AREAS SHALL BE STABILIZED IMMEDIATELY AFTER COMPLETION.

PRIOR TO DIGGING WITHIN THE ROADWAY, THE CONTRACTOR SHALL CALL "MISS UTILITY" TOLL FREE AT (800) 257-7777 FOR UTILITY LOCATION AT LEAST 48 HOURS BEFORE BEGINNING CONSTRUCTION.

PHASE 1 - EROSION AND SEDIMENT CONTROL SETUP

1. THE CONTRACTOR SHALL STAKE OUT THE LIMITS OF DISTURBANCE, PROPOSED BASELINE STATIONING AS SHOWN ON THE PLANS.
2. THE CONTRACTOR SHALL CONDUCT A PRE-CONSTRUCTION MEETING ONSITE WITH SEDIMENT AND EROSION CONTROL INSPECTOR AND THE ENGINEER TO REVIEW THE LIMITS OF DISTURBANCE, STAKEOUT, EROSION AND SEDIMENT CONTROL REQUIREMENTS, AND THE SEQUENCE OF CONSTRUCTION. THE PARTICIPANTS WILL ALSO VERIFY THE LOCATION OF THE TEMPORARY STOCKPILE AREA AND ANY NECESSARY STAGING AREA, AND FLAG ANY TREES WITHIN THE LIMITS OF DISTURBANCE WHICH WILL BE REMOVED FOR CONSTRUCTION ACCESS AND GRADING.
3. THE CONTRACTOR SHALL INSTALL EROSION AND SEDIMENT CONTROLS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
4. THE CONTRACTOR SHALL ESTABLISH THE TEMPORARY STOCKPILE AREA IN THE LOCATION INDICATED ON PLAN.
5. THE DPW&T INSPECTOR WILL BE NOTIFIED UPON COMPLETION OF THE SEDIMENT CONTROL INSTALLATION. UPON COMPLETION OF CONTROL INSTALLATION WITH APPROVAL OF SEDIMENT AND EROSION CONTROL INSPECTOR, THE CONTRACTOR MAY BEGIN GRADING OPERATIONS. CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE SEQUENCE OF CONSTRUCTION AND GRADING PLANS, PROJECT SPECIFICATIONS, AND EROSION AND SEDIMENT CONTROL STANDARD DETAILS AND NOTES.

PHASE 2 - INSTALLATION

1. UPON APPROVAL OF INSTALLED EROSION AND SEDIMENT CONTROL MEASURES, BEGIN INSTALLATION. REMOVE PAVEMENT, INSTALL CURB AND CURB OPENINGS, AND REPAVE AS SHOWN ON PLANS. CURB OPENINGS SHALL BE BLOCKED TO PROHIBIT DRAINAGE FROM ENTERING BIORETENTION AREA.
2. AT THE END OF EACH WORKDAY, ALL EXCAVATION SHALL BE PROTECTED BY CONSTRUCTION SAFETY FENCE OR TEMPORARY BACKFILL AS NEEDED.
3. EXCAVATE BIORETENTION AREA TO PROPOSED INVERT DEPTH AND SCARIFY THE EXISTING SOIL SURFACE. DO NOT COMPACT THE IN-SITU MATERIALS, UNLESS DIRECTED BY ENGINEER. EXCAVATE TRENCH FOR PIPE FROM BIORETENTION AREA TO EXISTING INLET.
4. BACKFILL 3" OF #57 STONE AS BEDDING AND INSTALL UNDERDRAIN SYSTEM AND MONITORING WELLS.
5. WITHIN LIMIT OF BIORETENTION AREA, BACKFILL ADDITIONAL 9" OF #57 STONE IN 3" LIFTS, FOLLOWED BY PEA GRAVEL LAYER.
6. RESURFACE PARKING LOT AREA AS SHOWN ON PLANS.
7. BACKFILL BIORETENTION AREA WITH BIORETENTION MEDIA AS SHOWN IN THE PLANS AND DETAILED IN THE SPECIFICATIONS. USE MAXIMUM 1.0' LIFTS.
8. SETTLE EACH LIFT OF BIORETENTION MEDIA BY SLOWLY SOAKING PRIOR TO INSTALLING SUBSEQUENT LIFT. THIS CAN BE DONE BY WATER TRUCK OR BY OTHER MEANS PER ENGINEER'S DIRECTION. ADD SUFFICIENT MEDIA TO ACHIEVE FULL MEDIA DEPTH INDICATED ON PLANS.
9. FINALIZE SIDE SLOPE GRADING AND COBBLE SPILLWAY FROM CURB TO BIORETENTION MEDIA. INSTALL 4" OF TOPSOIL ALONG SIDE SLOPES AND AT OTHER DESIGNATED LOCATIONS ON PLANS. STABILIZE IMMEDIATELY.
10. PLANT VEGETATION SPECIFIED IN THE PLANTING PLAN AND INSTALL MULCH LAYER.
11. REPAIR DAMAGE TO ALL SURROUNDING WORK AREAS AND ENSURE ALL CONTRIBUTING AREAS ARE PERMANENTLY STABILIZED.
12. MAINTAIN ALL EROSION CONTROL DEVICES DURING CONSTRUCTION AND REMOVE ONCE DISTURBED AREAS HAVE BEEN STABILIZED AND THE EROSION AND SEDIMENT CONTROL INSPECTOR AND PROJECT ENGINEER HAVE GIVEN APPROVAL. STABILIZE ANY AREAS DISTURBED BY SEDIMENT CONTROL REMOVAL.

GENERAL NOTES

1. SEDIMENT CONTROL MEASURES MUST BE INSPECTED AND MAINTAINED REGULARLY TO INSURE THAT THE INTENDED PURPOSES ARE ACCOMPLISHED.
2. REFER TO MDE 2011 MARYLAND "STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL" FOR STANDARD DETAILS AND DETAILED SPECIFICATIONS OF EACH PRACTICE SPECIFIED HEREIN.
3. WITH THE APPROVAL OF THE SEDIMENT CONTROL INSPECTOR, MINOR FIELD ADJUSTMENT CAN AND WILL BE MADE TO INSURE THE CONTROL OF ANY SEDIMENT. CHANGES IN SEDIMENT CONTROL PRACTICES REQUIRE PRIOR APPROVAL OF THE SEDIMENT CONTROL INSPECTOR.
4. AT THE END OF EACH WORKING DAY, ALL SEDIMENT CONTROL PRACTICES WILL BE INSPECTED AND LEFT IN OPERATIONAL CONDITION.
5. ANY DISTURBED EARTH LEFT IDLE FOR PERIODS EXCEEDING 1 DAY SHALL BE STABILIZED ACCORDING TO TEMPORARY STABILIZATION SPECIFICATIONS.
6. ANY CHANGE TO THE GRADING PROPOSED ON THE PLAN REQUIRES RESUBMISSION TO DPW&T FOR APPROVAL.
7. ANY VARIATIONS FROM THE SEQUENCE OF OPERATIONS STATED ON THIS PLAN REQUIRES THE APPROVAL OF THE SEDIMENT CONTROL INSPECTOR PRIOR TO THE INITIATION OF THE CHANGE.
8. ANY MATERIAL REMOVED FROM THE SITE SHALL BE TAKEN TO AN APPROVED PRINCE GEORGE'S COUNTY DISPOSAL SITE.
9. CONTRACTOR SHALL VERIFY SITE CONDITIONS AND REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO BEGINNING CONSTRUCTION.

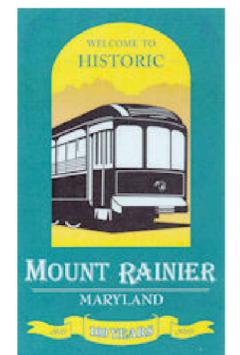
SEDIMENT CONTROL NOTES

1. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS. NO CONSTRUCTION ACTIVITY SHALL TAKE PLACE UNTIL ALL REQUIRED PERMITS HAVE BEEN OBTAINED.
2. THE LIMITS OF DISTURBANCE SHALL BE CLEARLY DELINEATED IN THE FIELD PRIOR TO GRADING OF THE SITE TO ENSURE COMPLIANCE WITH APPROVED PLANS. ANY WORK BEYOND LIMITS OF DISTURBANCE IS CONSIDERED TO BE A VIOLATION OF THIS PLAN.
3. ALL SEDIMENT CONTROL PRACTICES MUST BE INSTALLED PRIOR TO ANY CONSTRUCTION ACTIVITY. UPON COMPLETION OF INSTALLATION OF SEDIMENT CONTROL PRACTICES THE SITE MUST BE INSPECTED BY DPW. NO ADDITIONAL CONSTRUCTION ACTIVITY WILL BE AUTHORIZED WITHOUT THE APPROVAL OF DPW&T.
4. ALL POINTS INGRESS AND EGRESS SHALL BE PROTECTED TO PREVENT TRACKING OF MUD INTO PUBLIC WAYS. DURING CONSTRUCTION, EVERY MEANS WILL BE TAKEN TO CONTROL SOIL EROSION AND SITUATION. IF NECESSARY A WASH RACK MAY NEED TO BE ESTABLISHED.
5. EARTH DIKES, SEDIMENT TRAPS, ETC. WILL BE LOCATED AS SHOWN ON THESE DRAWINGS. FIELD CHANGES AND MINOR ADJUSTMENTS ARE PERMISSIBLE AS LONG AS THE INSTALLATION FUNCTIONS AND CONFORMS TO SPECIFICATIONS. ALL SUCH CHANGES TO THE APPROVED PLAN WILL REQUIRE PRE-APPROVAL BY THE PRINCE GEORGES COUNTY SOIL CONSERVATION DISTRICT.
6. FOLLOWING INITIAL SOIL DISTURBANCE PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN:
 - a.) SEVEN CALENDAR DAYS ON SLOPES GREATER THAN 3:1 AND ALL WATERWAYS AND TO THE SURFACE OF ALL PERIMETER CONTROLS.
 - b.) FOURTEEN CALENDAR DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS OF THE PROJECT SITE.
7. AT THE END OF EACH WORKING DAY, ALL SEDIMENT CONTROL PRACTICES WILL BE INSPECTED AND LEFT OPERATIONAL. A WEEKLY LOG WILL BE KEPT IN ACCORDANCE WITH NOI/NPDES REGULATIONS. A COPY OF THE APPROVED SEDIMENT CONTROL PLANS SHALL BE AVAILABLE AT THE SITE AT ALL TIMES.
8. SURFACE FLOWS OVER CUT AND FILL SLOPES SHALL BE CONTROLLED BY EITHER REDIRECTING FLOWS FROM TRAVERSING THE SLOPES OR BY INSTALLING MECHANICAL DEVICES TO SAFELY CONVEY WATER DOWN SLOPES WITHOUT CAUSING EROSION.
9. OFF-SITE WASTE OR BORROW AREAS SHALL HAVE AN APPROVED EROSION AND SEDIMENT CONTROL PLAN PRIOR TO THE IMPORT OR EXPORT OF MATERIAL TO THE PROJECT SITE.
10. ALL MATERIAL ORIGINATING FROM THE DEVELOPMENT OF THE PROPERTY AND DEPOSITED ON THE PUBLIC RIGHT-OF-WAY SHALL BE IMMEDIATELY REMOVED.
11. TOP SOILING, LIMING, FERTILIZING, SEEDING, MULCHING, SODDING, ETC. ARE ALL ESSENTIAL PARTS OF SEDIMENT CONTROL AND MUST BE COMPLETED ALONG WITH ALL OTHER PRACTICES.
12. SEDIMENT CONTROL PRACTICES WILL BE MAINTAINED UNTIL ALL DISTURBED AREAS FOR WHICH THE PRACTICES WERE INSTALLED HAVE BEEN STABILIZED. SEDIMENT CONTROL PRACTICES MAY BE REMOVED ONLY WITH THE AUTHORIZATION OF DPW&T. ALL DISTURBED AREAS RESULTING FROM THE REMOVAL OF SEDIMENT CONTROL DEVICES SHALL BE STABILIZED IMMEDIATELY. REMOVAL PRIOR TO INSPECTOR APPROVAL CONSTITUTES A VIOLATION.

BUCHANAN GREEN STREET PROJECT

04-01-2013 90% SUBMITTAL
 11-06-2012 30% SUBMITTAL
 10-16-2012 CONCEPT SUBMITTAL

DATE ISSUES / REVISIONS



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Restore the Earth & Inspire Ecological Stewardship

BUCHANAN GREEN STREET PROJECT

TITLE:
GENERAL NOTES AND SEQUENCE OF CONSTRUCTION

PROJECT NO. :	12013.01	SCALE:	
SEAL:		BY:	AL, PJ
		CHECK:	DS
		DWG. NO. :	

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