

SEQUENCE OF CONSTRUCTION

STD DETAIL S/3.6

ASAP AFTER AWARD OF CONTRACT, A SITE PRE-CONSTRUCTION MEETING WILL BE SCHEDULE WITH

2. PRIOR TO STARTING ANY CONSTRUCTION ACTIVITY, THE TRAFFIC CONTROL PLAN WILL BE PUT IN

3. TEST PIT LOCATIONS OF EXISTING 8" WATER LINE AND 3" GAS LINE AS SHOWN ON PLANS FOR NEW

4. EXCAVATE FOR LOCATION OF NEW I-1 (PG SD10.0) INLET AND 15' RCP LINE ACROSS LONGFELLOW

7. ABANDON IN-PLACE EXISTING INLET I-1. ABANDON EXISTING 15" STORM DRAIN LINES USING WSSC

9. INSTALL NEW INLETS (P.G. SD10.0) AT I-2 AND I-3. ABANDON EXISTING 15" STORM DRAIN LINE FROM I-2

13. AFTER NEW STORM DRAIN LINE AND CONNECTION TO INLETS IS COMPLETE, BACKFILL TRENCH

14. EXCAVATE TRENCH FOR INSTALLATION OF 2' STONE DIAPHRAGMS AND NYLOPLAST YARD DRAIN

16. WITH APPROVAL OF PROJECT ENGINEER, REMOVE ALL EROSION AND SEDIMENT CONTROL DEVICES

15. INSTALL NYLOPLAST YARD DRAIN INLET AND STONE DIAPHRAGMS. INCLUDING BACKFILL AND

17. PROCEED TO LOCATION OF INLET I-4. INSTALL E&S CONTROLS AS REQUIRED. TEST PIT FOR

19 WORK WILL BEGIN BY REMOVING EXISTING CURB AND GUTTER INLET CORRAL AND REMOVAL OF

20. INSTALL NEW P.G. COUNTY THROAT TPE (P.G.SD 10.5) AND ALIGN NEW CURB AND GUTTER INTO

21. EXCAVATE TRENCH FOR INSTALLTION OF NEW 15' RCP PIPE CONNECTION TO EXISTING STORM

23. AFTER NEW STORM DRAIN LINE AND CONNECTION TO INLETS IS COMPLETE, BACKFILL TRENCH

24. WITH APPROVAL OF PROJECT ENGINEER, REMOVE ALL EROSION AND SEDIMENT CONTROL DEVICES

22. COORDINATE WITH WSSC AND LOWER EXISTING 8" WATER LINE AS SHOWN ON PLANS.

FROM THIS LOCATION AND REMOVE ALL TRAFFIC CONTROL SIGNAGE

18. COORDINATE WITH WASHINGTON GAS FOR RELOCATION OF EXISTING GAS LINE

PLACE AND THE EROSION AND SEDIMENT CONTROL PLAN WILL BE INSTALLED.

6. BACKFILL AND RESURFACE NEW STORM DRAIN LINE TRENCH ON LONGFELLOW STREET

8. REMOVE CORRAL TYPE CURB & GUTTER AT I-1, I-2 AND I-3 AND REPLACE WITH NEW CURB &

INLET I-1. CONTACT WASHINGTON GAS TO COORDINATE ANY ADJUSTMENT

TO I-2. RE-CONNECT EXISTING SUMP PUMP DRAIN LINES TO I-2 AND 1-3.

10. EXCAVATE TRENCH FOR INSTALLATION OF 15" RCP FROM NEW I-1 TO I-1A AND I-1B.

5. INSTALL NEW I-1 INLET AND 15° RCP STORM DRAIN LINE

GUTTER ALIGNED WITH EXISTING CURB.

11. REMOVE EXISTING 20" DIAMETER OAK TREE

EXCAVATION AND RESTORE SURFACE.

STABILIZATION OF ALL AREAS.

FROM THIS LOCATION

12 INSTALL MODIFIED YARD DRAIN INLETS L1A AND L1B

LOCATION OF EXISTING GASS LINE AND 8" WATER LINE.

DRAIN INLET ON NORTH SIDE OF LONGFELLOW STREET

EXCAVATION AND RESTORE ROAD SURFACE.

STORM DRAIN RETROFIT FOR LONGFELLOW ST BETWEEN 47TH AVE AND TAYLOR ST

CONCEPT #41944-2015-00 RIVERDALE PARK, MD FINAL DESIGN

TUCKERMAN ST. LAFAYETTE AVENUE SITE

LOCATION MAP

INDEX OF SHEETS COVER SHEET

DRAINAGE AREA MAP

EXISTING CONDITIONS PLAN

EXISTING SD PROFILE EXISTING CONDITONS PLAN

PROPOSED IMPROVEMENTS PLAN PROPOSED IMPROVEMENTS PLAN

C-5 PROFILES AND SECTIONS

DETAILS & NOTES C-7 MOT PLAN

MOT NOTES & DETAILS ESC-1

EROSION AND SEDIMENT CONTROL PLAN ESC-2 EROSION AND SEDIMENT STANDARDS

GENERAL NOTES

- 1. PROJECT NAME:LONGFELLOW STREET STORM CRAIN RETROFIT.
- RIVERDALE PARK, MD 2. GROSS ACREAGE: 3.00 ACRES
- 3. DISTURBED AREA: 1,825 SQ. FT. (0.04 AC)
- 4. EXISTING ZONE: NA
- 5. WSSC GRD: 206NF04
- 7. SUBDIVISION: RIVERDALE PARK
- 8. STORMWATER CONCEPT APPROVAL #: 41944-20: 5-00
- ASSUMED 10 FT PUBLIC UTILITY EASEMENT ALONG ALL RIGHTS OF WAY UNLESS
- 10. NO MANDATORY PARK DEDICATION OR SUBDIVISION REQUIRED
- 11. NO CEMETERIES EXISTING ON OR CONTIGUOUS TO THE PROPERTY
- 12. NO HISTORICAL SITES ON OR IN THE VICINITY OF THE PROPERTY
- 13. NO STREAMS ARE ON OR ARE CONTIGUOUS /ADJACENT TO PROPERTY
- 14. NO WETLANDS ARE ON OR ARE CONTIGUOUS/ ADJACENT TO PROPERTY 15 100 YEAR BLOODELAIN IS ADJACENT TO PROPERTY NE BRANCH ANACOSTIA RIVER
- 18. THIS SITE S NOT WITHIN THE CHESAPEAKE BAYCRITICAL AREA
- 19. SOURCE OF TOPOGRAPHY: PRINCE GEORGE'S COUNTY GIS & FROM OTHERS
- 20. ALL STORM DRAINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST EDITION OF THE STORMWATER STANDARDS & SPECIFICATIONS & DETAILS AS WELL AS APPROVED STRUCTURES OF PRINCE GEORGE'S COUNTY, DEPARTMENT OF PERMITTING, INSPECTION & ENFORCEMENT OR DEPARTMENT OF ENVIRONMENT (DOE), OR DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION (DPWT) OR UNLESS OTHERWISE NOTED.
- 21. INFORMATION CONCERNING LINDERGROUND LITELITIES WAS OBTAINED FROM AVAILABLE RECORDS. THE CONTRACTOR MUST DETERMINE THE EXACT LOCATIONS AND ELEVATIONS OF THE UTILITIES BY DIGGINGTEST PITS AT ALL UTILITY CROSSINGS WELL IN ADVANCE OF TRENCHING. F CLEARANCES ARE LESS THAN SPECIFIED, CONTACT THE ENGINEER, AND THE OWNER OF THE OTHER INVOLVED UTILITY BEFORE PROCEEDING WITH CONSTRUCTION.
- 22. ALL STORM DRAIN PIPES MUST HAVE A MINIMUN 1' COVER.
- 23. ALL INLETTOP SLAB FRONT FACE SHALL BE PAINTED WITH THE FOLLOWING "CHESAPEAKE BAY DRAINAGE, DON'T DUMP" (STANDARD DETAIL 82.0)



vere prepared or approved by me, and that I am a duly licensed

No.: 22621 Expiration Date: 2-17-2022

DEPARTMENT OF THE ENVIRONMENT

ECOSITE, INC. Ecologically Sustainable Design

4920 NIAGARA ROAD SUITE 311 COLLEGE PARK, MD 20740 PHONE: (410) 804-8000

Town of Riverdale Park LONGFELLOW STREET FROM 47th AVENUE TO TAYLOR STREET STORM DRAIN RETROFIT

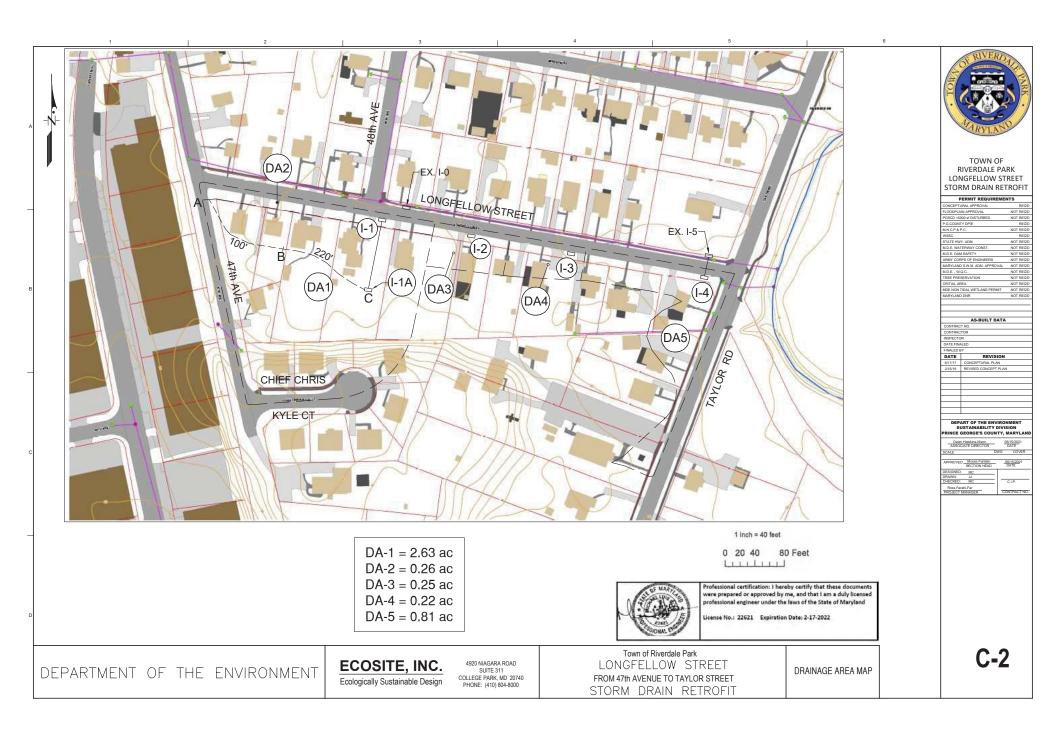
COVER SHEET

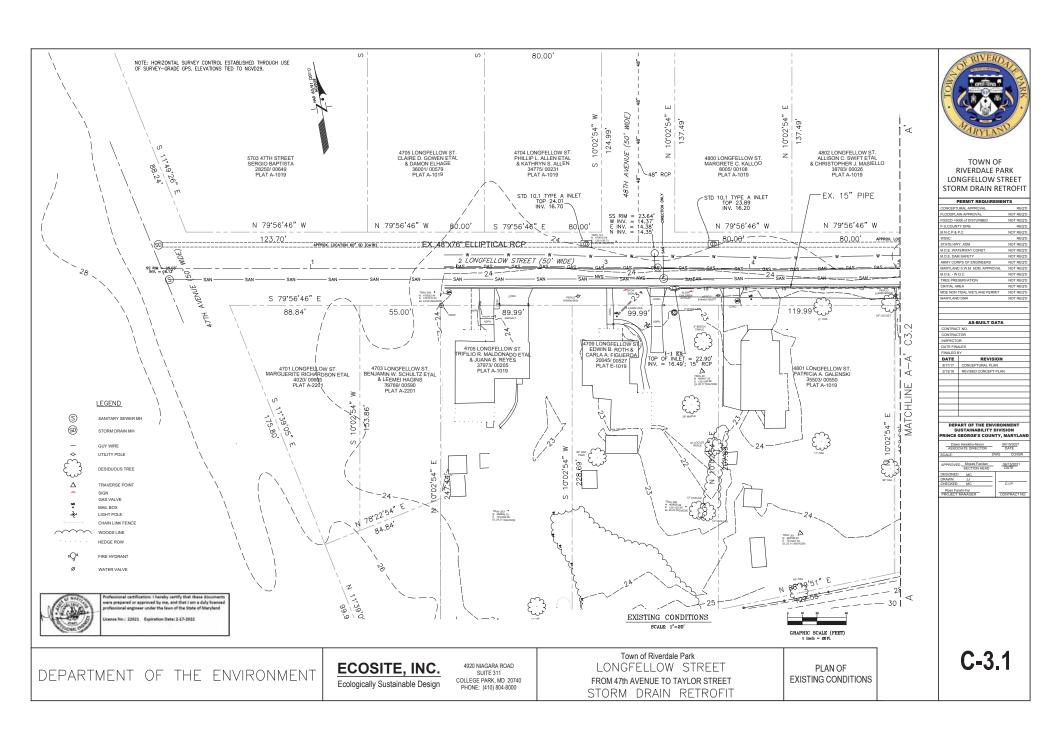


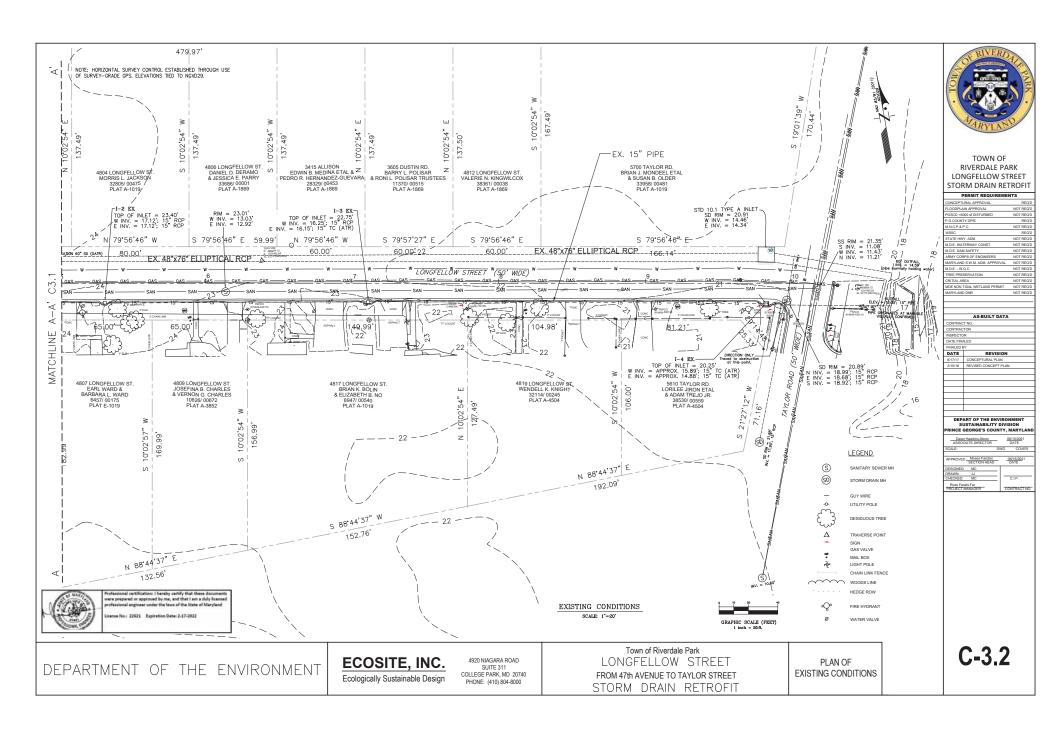
TOWN OF RIVERDALE PARK LONGFELLOW STREET STORM DRAIN RETROFIT

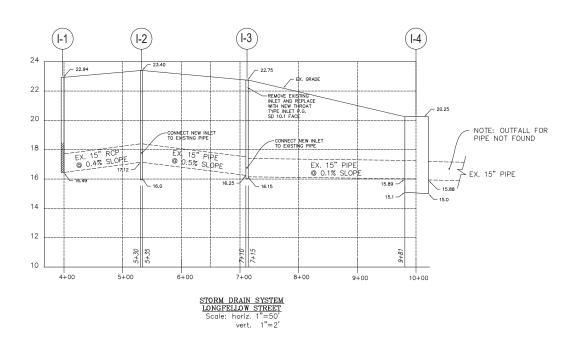
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06/15/2021 DATE











TOWN OF RIVERDALE PARK LONGFELLOW STREET STORM DRAIN RETROFIT

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M.N.C.P.&	P.C.	NOT REQ'D
WSSC		REQ'D
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ARMY CO	RPS OF ENGINEERS	NOT REQ'D
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8/17/17	CONCEPTURAL PLAN	
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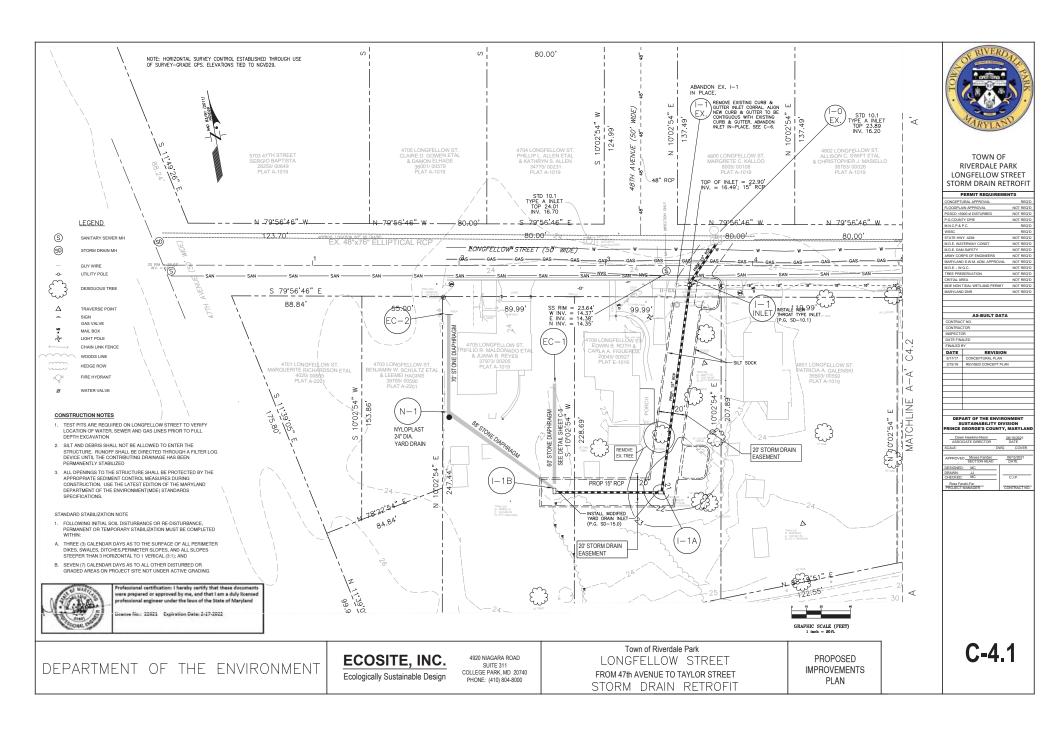
DEPART OF THE ENVIRONMENT SUSTAINABILITY DIVISION RINCE GEORGE'S COUNTY, MARYLA

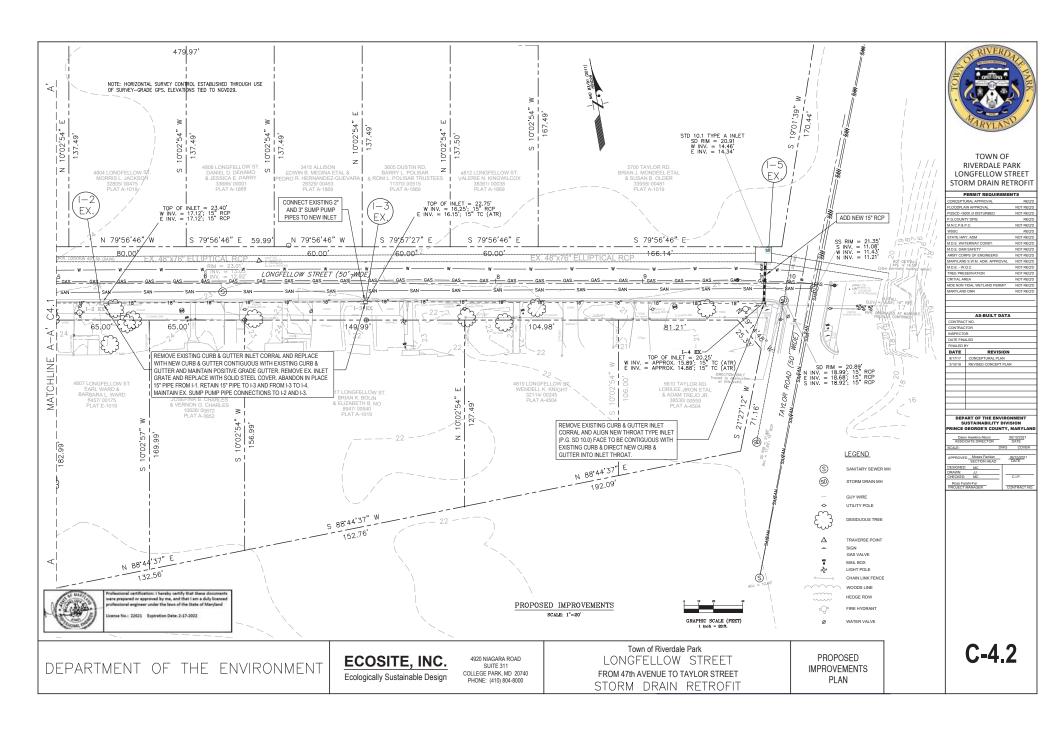
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SCALE:		DWG	COVER
APPROVED.	Moses Faridan		06/15/2021
	SECTION HEAD		DATE
DESIGNED:	MC		
DRAWN:	JJ		
CHECKED:	MC	= 11 -	C.I.P.
Ross Faral			
PROJECT M	ANAGER	1.7	CONTRACT NO

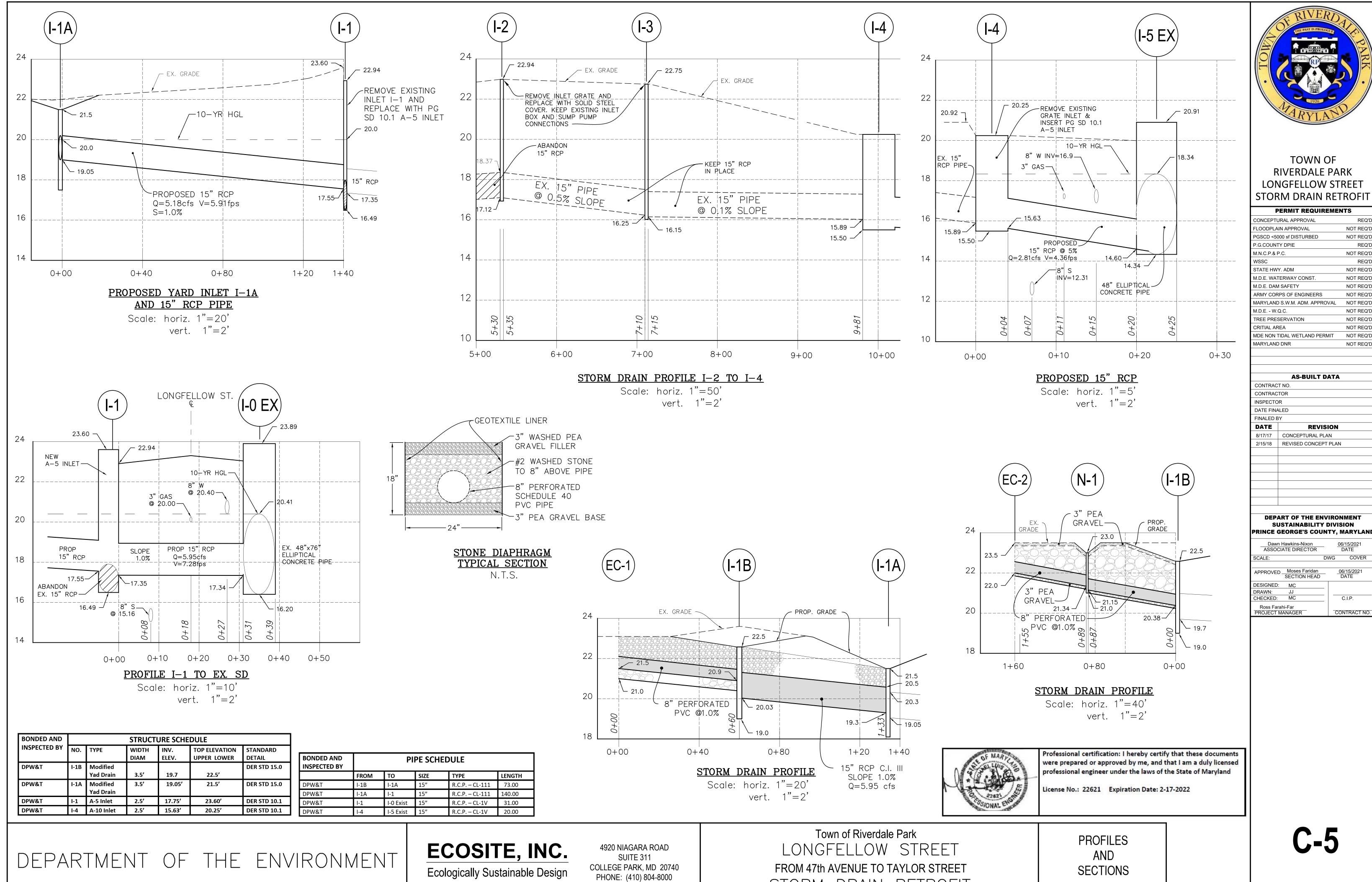


Professional certification: I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed ssional engineer under the laws of the State of Maryland

ense No.: 22621 Expiration Date: 2-17-2022







STORM DRAIN RETROFIT

NOT REQ'D

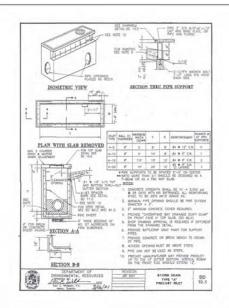
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REVISION

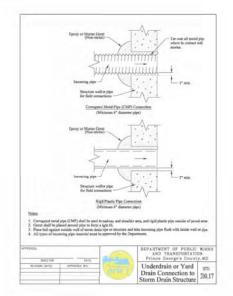
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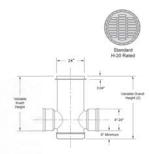
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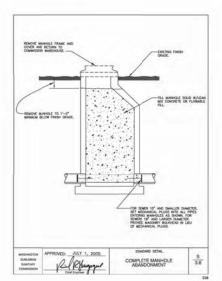


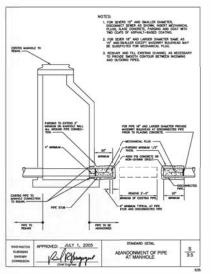


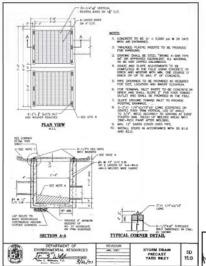














Professional certification: I hereby certify the

Co Man

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.: 22621 Expiration Date: 2-17-2022

DEPARTMENT OF THE ENVIRONMENT

ECOSITE, INC.

Ecologically Sustainable Design

4920 NIAGARA ROAD SUITE 311 COLLEGE PARK, MD 20740 PHONE: (410) 804-8000 Town of Riverdale Park
LONGFELLOW STREET
FROM 47th AVENUE TO TAYLOR STREET
STORM DRAIN RETROFIT

DETAILS AND NOTES VI NUMBER OF THE PARTY OF THE P

TOWN OF RIVERDALE PARK LONGFELLOW STREET

PERMIT REQUIREMEN	NTS
CONCEPTURAL APPROVAL	REQ1
FLOCOPLAIN APPROVAL	NOT REQU
PGSCD <5000 of DISTURBED	NOT REQU
P.G.COUNTY DPIC	REGI
MNCPAPC	REQ1
WSSC	REQ1
STATE HWY, ADM	NOT REQ1
M.D.E. WATERWAY CONST.	NOT REQT
M.D.E. DAM SAFETY	NOT REQ1
ARMY CORPS OF ENGINEERS	NOT REQU
MARYLAND S.W.M. ADM. APPROVIL	NOT REQ1
MDE-WGC	NOT REQU
TREE PRESERVATION	NOT REQ1
CRITIAL AREA	NOT REQU
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MARYLAND DNR	NOT REQ1
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AS-BUILT DATA	

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	8/17/17	CONCEPTURAL PLAN
2/15/16 REVISED CONCEPT PLA	2/15/18	REVISED CONCEPT PLAN

DEPART OF THE ENVIRONMEN

ASSOCIATE DIRECTOR	. 0	DATE
ALE	DWG	COVER
PROVED Moses Fandan SECTION HEAD	- 9	6/15/2521 DATE
SIGNED: MC IAWN: JJ IECKED: MC		
Ross Farahs-Far ROSECT MANAGER		CLP: NTRACT NO

C-6



e No.: 22621 Expiration Date: 2-17-2022

DEPARTMENT OF THE ENVIRONMENT

Storm Drain Conveyance - 06-04-19

Property lines

Hydro Line (2017)

Hydro Area (2017)

Transportation 2017

Impervious Surface 2017

Buildings by Roof Type 2017

Flat

Gable

ECOSITE, INC.

RIGHT-OF-WAY FOR CONTRACTOR'S USE.

4. SIGN: "ROAD WORK AHEAD" (W20-1 36x36).

SIGN: "SIDEWALK CLOSED" (R9-9, 24x12).

DURING CONSTRUCTION.

2. PROVIDE DRUMS AS CHANNELIZING DEVICES AROUND

WORK AREA IN ROADWAY, 10 FOOT SPACING. 3. SIGN: "END ROAD WORK" (G20-2(1) 36x18).

5. PROVIDE DETECTABLE TEMPORARY BARRIER WITH

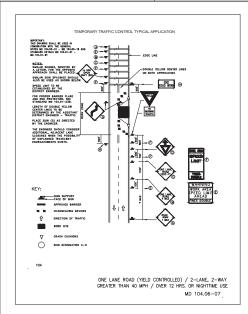
6. PROVIDE MINIMUM OF 10 FEET BETWEEN EDGE OF PAVEMENT AND DRUMS FOR ONE WAY TRAFFIC

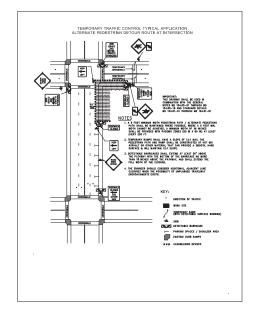
> 4920 NIAGARA ROAD SUITE 311 COLLEGE PARK, MD 20740 Ecologically Sustainable Design PHONE: (410) 804-8000

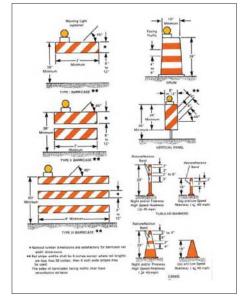
Town of Riverdale Park LONGFELLOW STREET FROM 47th AVENUE TO TAYLOR STREET STORM DRAIN RETROFIT

MAINTENANCE OF TRAFFIC PLAN (MOT) 1 **C-7**

2 | 3 | 4 | 5 | 6





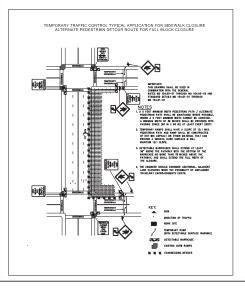


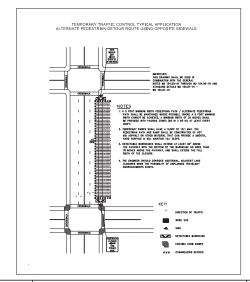


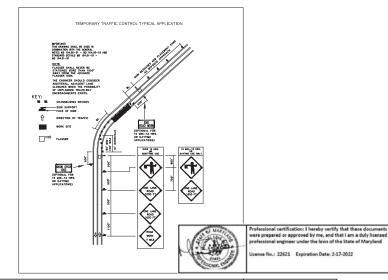
Ross Farahi-Far PROJECT MANAGER

TOWN OF

RIVERDALE PARK LONGFELLOW STREET STORM DRAIN RETROFIT







Town of Riverdale Park
LONGFELLOW STREET
FROM 47th AVENUE TO TAYLOR STREET
STORM DRAIN RETROFIT

MOT NOTES & DETAILS

DEPARTMENT OF THE ENVIRONMENT

ECOSITE, INC.

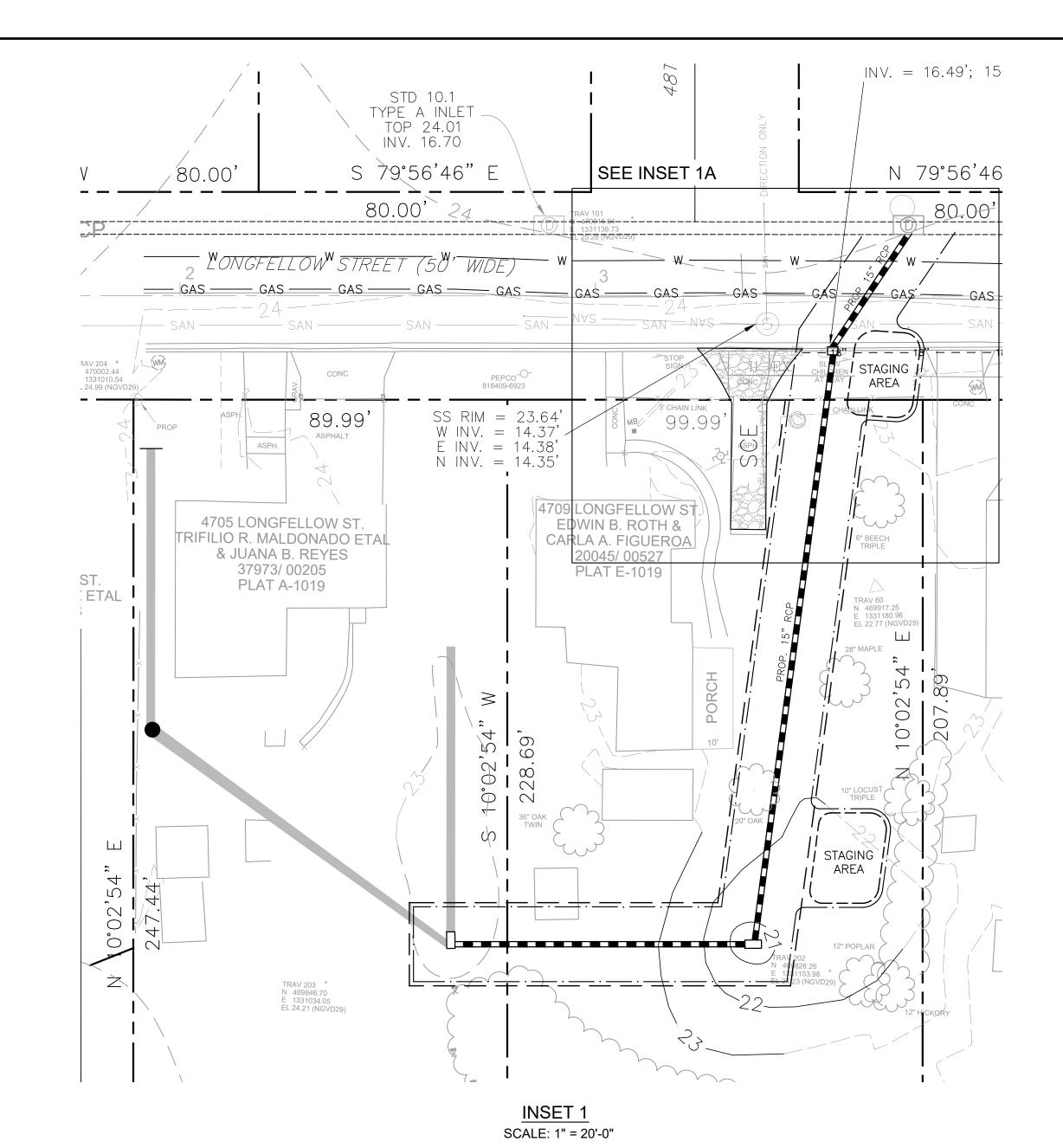
Ecologically Sustainable Design

4920 NIAGARA ROAD

SUITE 311 COLLEGE PARK, MD 20740

PHONE: (410) 804-8000

C-8



NOTE 1

"I HEREBY CERTIFY THAT THIS PLAN CONFORMS TO THE REQUIREMENTS OF SUBTITLE 32, DIVISION 2 OF THE CODE OF PRINCE GEORGE'S COUNTY WATER RESOURCES PROTECTION AND GRADING CODE; AND THAT I OR MY STAFF HAVE INSPECTED THIS SITE AND THAT DRAINAGE FLOWS FROM UPHILL PROPERTIES ONTO THIS SITE, AND FROM THIS SITE ONTO DOWNHILL PROPERTIES, HAVE BEEN ADDRESSED IN SUBSTANTIAL ACCORDANCE WITH APPLICABLE CODES. AND SIGNED, SEALED AND DATED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF MARYLAND

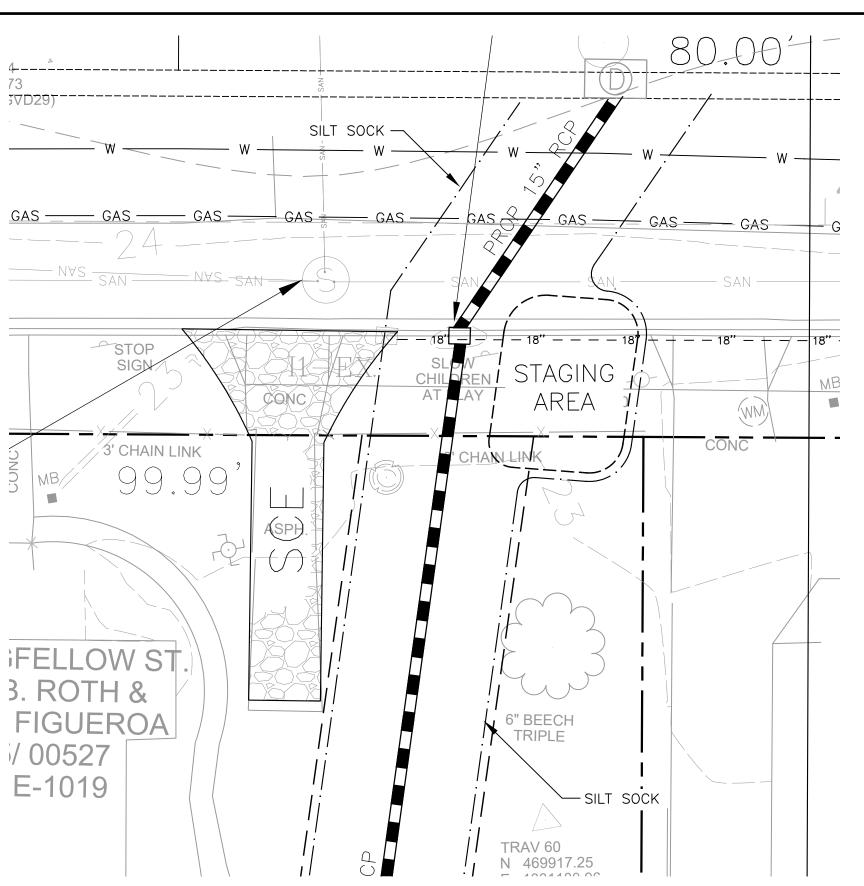
STABILIZATION NOTE

Stabilization practices on all projects must be in compliance with the requirements of COMAR26.17.1.08 G regulations by January 9, 2013, regardless of when an Erosion and Sediment Control Plan was approved. Following initial soil disturbance or redisturbance, permanent or temporary stabilization must be completed within: Three (3) calendar days as to the surface of all perimeter dikes, swales, ditches, perimeter slopes, and all slopes steeper than 3 horizontal to 1 vertical (3:1); and Seven (7) calendar days as to all other disturbed or graded areas on the project site not under active grading.



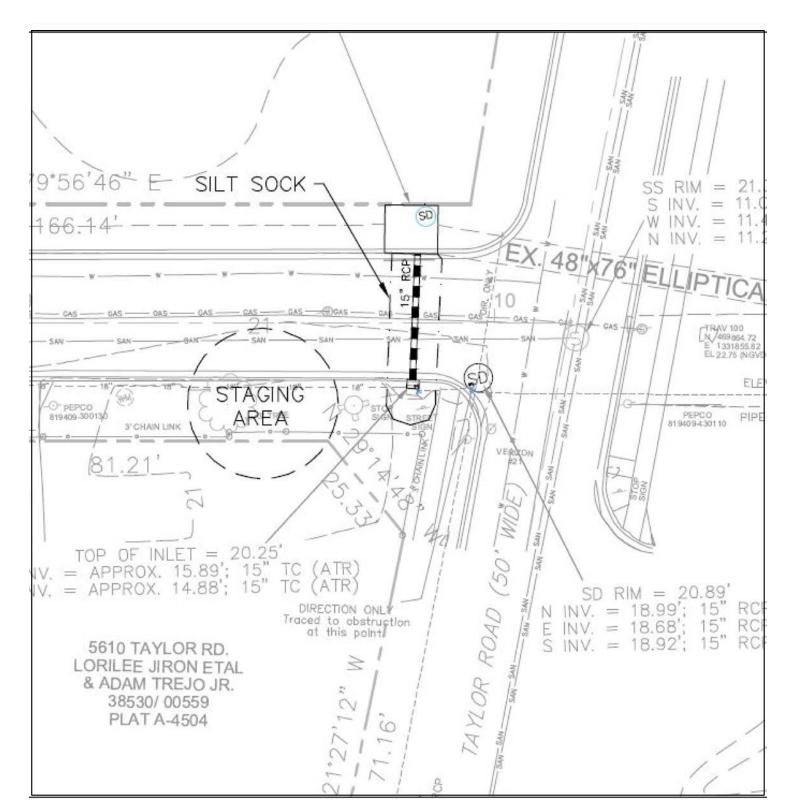
Professional certification: I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland

License No.: 22621 Expiration Date: 2-17-2022

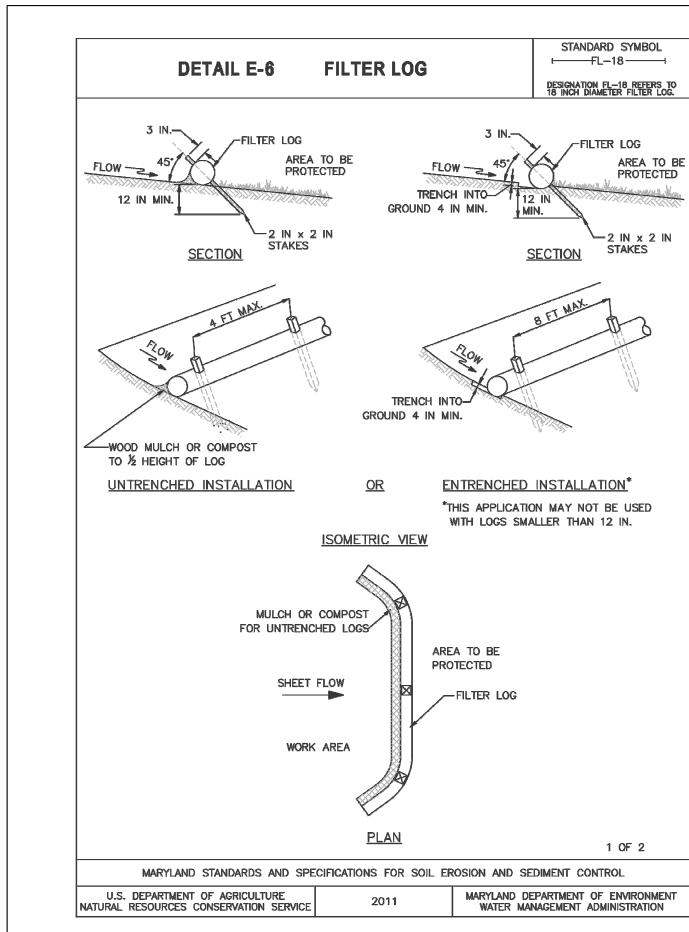


INSET 1A

SCALE: N.T.S.



INSET 2 SCALE: 1" = 20'-0"



	DETAIL E-6 FILTER LOG	STANDARD SYMBOL FL-18
	DETAIL E-6 FILTER LOG	DESIGNATION FL-18 REFERS T 18 INCH DIAMETER FILTER LOC
<u>CC</u>	NSTRUCTION SPECIFICATIONS	
1.	PRIOR TO INSTALLATION, CLEAR ALL OBSTRUCTIONS INCLUDING ROCKS, CLOD THAN ONE INCH THAT MAY INTERFERE WITH PROPER FUNCTION OF FILTER LOCAL PROPER FUNCTION OF FILTER PROPER FUNCTION OF FILTER LOCAL PROPER FUNCTION OF FILTER LOCAL PROPER FUNCTION OF FILTER PROPER FUNCTION PROPER FU	
2.	FILL LOG NETTING UNIFORMLY WITH COMPOST (IN ACCORDANCE WITH SECTION OTHER APPROVED BIODEGRADABLE MATERIAL TO DESIRED LENGTH SUCH THA	
3.	INSTALL FILTER LOGS PERPENDICULAR TO THE FLOW DIRECTION AND PARALLITHE BEGINNING AND END OF THE INSTALLATION POINTING SLIGHTLY UP THE SHAPE AT EACH END TO PREVENT BYPASS.	
4.	FOR UNTRENCHED INSTALLATION BLOW OR HAND PLACE MULCH OR COMPOST SLOPE ALONG LOG.	ON UPHILL SIDE OF THE
5.	STAKE FILTER LOG EVERY 4 FEET OR CLOSER ALONG ENTIRE LENGTH OF LOG GROUND A MINIMUM OF 4 INCHES AND STAKE LOG EVERY 8 FEET OR CLOSE	
6.	USE STAKES WITH A MINIMUM NOMINAL CROSS SECTION OF 2X2 INCH AND CATTAIN A MINIMUM OF 12 INCHES INTO THE GROUND AND 3 INCHES PROTRU	
7.	WHEN MORE THAN ONE LOG IS NEEDED, OVERLAP ENDS 12 INCHES MINIMUM	AND STAKE.
	DISLODGING OCCURS, REPLACE CLOGGED FILTER LOGS, FOR PERMANENT APPI CONTINUOUSLY MEET REQUIREMENTS FOR ADEQUATE VEGETATIVE ESTABLISHM SECTION B-4 VEGETATIVE STABILIZATION.	
	MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SE	2 OF 2

DEPARTMENT OF THE ENVIRONMENT

ECOSITE, INC.

Ecologically Sustainable Design

4920 NIAGARA ROAD SUITE 311 COLLEGE PARK, MD 20740 PHONE: (410) 804-8000 Town of Riverdale Park
LONGFELLOW STREET
FROM 47th AVENUE TO TAYLOR STREET
STORM DRAIN RETROFIT

EROSION AND
SEDIMENT
CONTROL PLAN



TOWN OF RIVERDALE PARK LONGFELLOW STREET STORM DRAIN RETROFIT

PERMIT REQUIREME	NTS
CONCEPTURAL APPROVAL	REQ'D
FLOODPLAIN APPROVAL	NOT REQ'D
PGSCD <5000 sf DISTURBED	NOT REQ'D
P.G.COUNTY DPIE	REQ'D
M.N.C.P.& P.C.	REQ'D
WSSC	REQ'D
STATE HWY. ADM	NOT REQ'D
M.D.E. WATERWAY CONST.	NOT REQ'D
M.D.E. DAM SAFETY	NOT REQ'D
ARMY CORPS OF ENGINEERS	NOT REQ'D
MARYLAND S.W.M. ADM. APPROVAL	NOT REQ'D
M.D.E W.Q.C.	NOT REQ'D
TREE PRESERVATION	NOT REQ'E
CRITIAL AREA	NOT REQ'E
MDE NON TIDAL WETLAND PERMIT	NOT REQ'D
MARYLAND DNR	NOT REQ'D

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APPROVED_	Moses Faridan SECTION HEAD	(06/15/2021 DATE
DESIGNED:	MC		
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CONTRACT NO.

PROJECT MANAGER

DEPART OF THE ENVIRONMENT

ESC-1

B-4 STANDARDS AND SPECIFICATIONS FOR VEGETATIVE STABILIZATION

Using vegetation as cover to protect exposed soil from erosion.

To promote the establishment of vegetation on exposed soil. Purpose:

Conditions Where Practice Applies:

On all disturbed areas not stabilized by other methods. This specification is divided into sections on incremental stabilization; soil preparation, soil amendments and topsoiling; seeding and mulching; temporary stabilization; and permanent stabilization.

Effects on Water Quality and Quantity

Stabilization practices are used to promote the establishment of vegetation on exposed soil. When soil is stabilized with vegetation, the soil is less likely to erode and more likely to allow infiltration of rainfall, thereby reducing sediment loads and runoff to downstream areas.

Planting vegetation in disturbed areas will have an effect on the water budget, especially on volumes and rates of runoff, infiltration, evaporation, transpiration, percolation, and groundwater recharge. Over time, vegetation will increase organic matter content and improve the water holding capacity of the soil and subsequent plant growth. Vegetation will help reduce the movement of sediment, nutrients, and other chemicals carried by runoff to receiving waters. Plants will also help protect groundwater supplies by assimilating those substances present within the root zone.

Sediment control practices must remain in place during grading, seedbed preparation, seeding, mulching, and vegetative establishment.

Adequate Vegetative Establishment

Inspect seeded areas for vegetative establishment and make necessary repairs, replacements, and reseedings within the planting season.

- 1. Adequate vegetative stabilization requires 95 percent groundcover.
- 2. If an area has less than 40 percent groundcover, restabilize following the original recommendations for lime, fertilizer, seedbed preparation, and seeding.
- 3. If an area has between 40 and 94 percent groundcover, over-seed and fertilize using half of the rates originally specified.
- 4. Maintenance fertilizer rates for permanent seeding are shown in Table B.6.

Table B.6: Maintenance Fertilization for Permanent Seeding

Seeding Mixture	Type	lb/ac	lb/1000 sf	Time	Mowing
Tall fescue makes up 70 percent or more of cover.	10-10-10 or 30-10-10	500 400	11.5 9.2	Yearly or as needed. Fall	Not closer than 3 inches, if occasional mowing is desired.
Birdsfoot Trefoil.	0-20-0	400	9.2	Spring, the year following establishment, and every 4 to 5 years, thereafter.	Mow no closer than 2 inches.
Fairly uniform stand of tall fescue or birdsfoot trefoil.	5-10-10	500	11.5	Fall, the year following establishment, and every 4 to 5 years, thereafter.	Not required, no closer than 4 inches in the fall after seed has matured.
Weeping lovegrass fairly uniform plant distribution.	5-10-10	500	11.5	Spring, the year following establishment, and every 3 to 4 years, thereafter.	Not required, not closer than 4 inches in fall after seed has matured.
Red & chewings fescue, Kentucky bluegrass, hard fescue mixtures.	20-10-10	250 100	5.8	September, 30 days later. December, May 20, June 30, if needed.	Mow no closer than 2 inches for red fescue and Kentucky bluegrass, 3 inches for fescue.

Professional certification: I hereby certify that these documents vere prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland

icense No.: 22621 Expiration Date: 2-17-2022

B-4-3 STANDARDS AND SPECIFICATIONS FOR SEEDING AND MULCHING

The application of seed and mulch to establish vegetative cover. 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. 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. 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 effective.

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 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.

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; P₂O₅ (phosphorous), 200 pounds per acre; K₂O (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-4-2 STANDARDS AND SPECIFICATIONS FOR SOIL PREPARATION, TOPSOILING,

AND SOIL AMENDMENTS

Definition: The process of preparing the soils to sustain adequate vegetative stabilization. **Purpose:** To provide a suitable soil medium for vegetative growth. Conditions Where Practice Applies: Where vegetative stabilization is to be established.

Criteria

A. Soil Preparation

1. Temporary Stabilization

a. Seedbed 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 loosened, 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 slope.

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.

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: 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.

b. Application of amendments or topsoil is required if on-site soils do not meet the above

c. Graded areas must be maintained in a true and even grade as specified on the approved plan, then scarified or otherwise loosened to a depth of 3 to 5 inches.

d. Apply soil amendments as specified on the approved plan or as indicated by the results of a soil

e. 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 roughen the surface where site conditions will not permit normal seedbed preparation. Track slopes 3:1 or flatter with tracked equipment leaving the soil in an irregular condition with ridges running parallel to the contour of the slope. Leave the top 1 to 3 inches of soil loose and friable. Seedbed 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.

3. 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.

B. 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 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

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 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.

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

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.

4. Areas having slopes steeper than 2:1 require special consideration and design.

5. Topsoil Specifications: Soil to be used as topsoil must meet the following criteria: a. Topsoil must be a loam, sandy loam, clay loam, silt loam, sandy clay loam, or loamy sand. Other soils may be used if recommended by an agronomist or soil scientist and approved by the appropriate approval authority. Topsoil must not be a mixture of contrasting textured subsoils and must contain less than 5 percent by volume of cinders, stones, slag, coarse fragments,

gravel, sticks, roots, trash, or other materials larger than 1½ 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.

6. 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 seeding can proceed with a minimum of additional soil preparation and tillage. 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 detrimental to proper grading and seedbed preparation.

C. Soil Amendments (Fertilizer and Lime Specifications)

1. Soil tests must be performed to determine the exact ratios and application rates for both lime and fertilizer on sites having disturbed areas of 5 acres or more. Soil analysis may be performed by a recognized private or commercial laboratory. Soil samples taken for engineering purposes may also be used for chemical analyses.

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. Lime materials must be ground limestone (hydrated or burnt 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.

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.

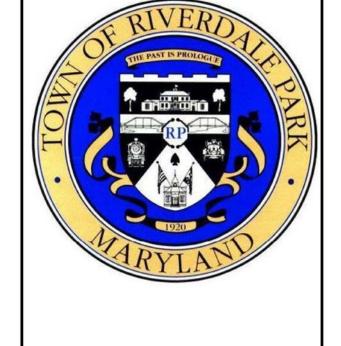
4. Lime and fertilizer are to be evenly distributed and incorporated into the top 3 to 5 inches of soil by

EROSION AND

SEDIMENT

STANDARDS

Town of Riverdale Park LONGFELLOW STREET STORM DRAIN RETROFIT



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DEPART OF THE ENVIRONMENT SUSTAINABILITY DIVISION PRINCE GEORGE'S COUNTY, MARYLAND

Dawn Hawkins-Nixon ASSOCIATE DIRECTOR		06/15/2021 DATE		
SCALE:		DWG	COVER	
APPROVED_	Moses Faridan		06/15/2021	
	SECTION HEAD		DATE	
DESIGNED:	MC			
DRAWN:	JJ	_		
CHECKED:	MC	_ _	C.I.P.	
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PROJECT MANAGER CONTRACT NO.

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