

ESDv REQUIRED = 697 CF

ESDv SURPLUS = +135 CF

= 0 ACRES

= 0 ACRES

SITE AREA OF ERODIBLE SOILS

SITE TOTAL FORESTED AREA

SITE AREA WITHIN 100-YR FLOODPLAIN = 0 ACRES

SITE AREA WITHIN 100' STREAM BUFFER = 0 ACRES

SEQUENCE OF CONSTRUCTION

- 1. REQUEST FOR PRE-CONSTRUCTION MEETING WITH THE APPROPRIATE ENFORCEMENT AUTHORITY,
- 2. CLEARING AND GRUBBING AS NECESSARY FOR INSTALLATION OF PERIMETER CONTROLS, (1
- 3. CONSTRUCTION AND STABILIZATION OF PERIMETER CONTROLS, (1 DAY).
- 5. DRIVEWAY GRADING, (1 DAY).
- 6. GRADING FOR THE REMAINDER OF THE SITE, (2 DAYS).
- 7. UTILITY INSTALLATION AND CONNECTIONS TO EXISTING STRUCTURES, (4 DAYS). 8. CONSTRUCTION OF BUILDING, ROADS, AND OTHER CONSTRUCTION, (4 MONTHS).
- 9. FINAL GRADING, LANDSCAPING, AND STABILIZATION, (3 DAYS).
- 10. INSTALLATION OF STORMWATER MANAGEMENT MEASURES (4 DAYS). 11. APPROVAL OF THE APPROPRIATE ENFORCEMENT AUTHORITY PRIOR TO REMOVAL OF SEDIMENT
- 12. REMOVAL OF CONTROLS AND STABILIZATION OF AREAS THAT ARE DISTURBED BY REMOVAL OF SEDIMENT CONTROLS, (2 DAYS).
- NOTE: ANY CHANGES OR REVISIONS TO THE SEQUENCE OF CONSTRUCTION MUST BE REVIEWED AND APPROVED BY THE PLAN APPROVAL AUTHORITY PRIOR TO PROCEEDING WITH CONSTRUCTION.

BOTANICAL NAME

PLANTING NOTES:

Plant a mix of shrubs and perennials.

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR

AM A DULY LICENSED
PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE

OF MARYLAND. LICENSE # 1104.3

APPROVED BY ME, AND THAT I

EXPIRATION DATE: 2/10/2019

2770 STATE ROUTE 32

TEL: (240) 508-3200

6.4-18

WEST FRIENDSHIP, MD 21794

2. Reference standards: comply with those listed below.

when ground is workable, i.e., moist, not wet or frozen.

HAMEMELIS VIRGINIANA WITCH HAZEL

PLANTING SCHEDULE - MICRO-BIORETENTION

CONTAINER

SEEDLINGS

LEGEND

EX. HOWARD COUNTY WATER PANEL

EX. SANITARY SEWER MANHOLE

EX. UNKNOWN VALVE EX. UTILITY POLE

EX. EVERGREEN TREE

EX. DECIDUOUS TREE

PROP. SPOT ELEVATION

DENOTES "TO REMAIN"

DENOTES "TO BE REMOVED"

DISCONNECTION OF NON-ROOFTOP

PROP. PERMEABLE CONCRETE PAVEMENT

DEVELOPER

CARUSO HOMES

CROFTON, MD 21144

(301) 261-0277

OWNER

MARTIN CHANGSOO HONG

4814 HALE HAVEN DRIVE

ELLICOTT CITY, MD 21043

(206) 902-7562

2120 BALDWIN AVENUE, SUITE-200

EXISTING UTILITY RESERVATION

EX. CONTOUR

--- 536}---- PROP. CONTOUR

-//--- EX. SPLIT RAIL FENCE

- SSF ----- PROP. SUPER SILT FENCE

PROP. DRAINAGE DIVIDE

- LOD — PROP. LIMIT OF DISTURBANCE

RUNOFF, N-2

SOIL BORING LOCATION

a. Nomenclature for plant materials shall be in accordance with Hortus III, by the staff of L.H. Bailey Hortorium.

c. Landscape Specification Guidelines, latest edition, Landscape Contractors Association.

b. American Standard for Nursery Stock, ANSI Z60.1, latest edition, American Nursery & Landscape Association

3. proceed with planting only when existing and forecast weather conditions are suitable for work, perform actual planting

EX. OVERHEAD ELECTRIC LINE

- 536 ---

- SF - PROP. SILT FENCE

CONTAINER | 12"-24" | PLANT 3' APART

COMMONN NAME | CONDITION | SIZE

INKBFRRY

BLUE FLAG

CRANESBILL

MICR-BIORETENTION FACILITY ELEVATION CHART				
ELEVATION - A	ELEVATION - B	ELEVATION — C	ELEVATION — D	

GENERAL NOTES

REMARKS PLANT 3' APART

PLANT 15" APART, TRIANGULAR GRID

PLANT 15" APART, TRIANGULAR GRID

PLANT 15" APART, TRIANGULAR GRID

- 1. THE SUBJECT PROPERTY IS ZONED R-20 PER THE 10/06/13 COMPREHENSIVE ZONING PLAN.
- THIS PROPERTY IS LOCATED IN THE METROPOLITAN DISTRICT AND IS TO BE
- SERVED BY PUBLIC WATER AND PUBLIC SEWER. 3. THE PLAN IS BASED ON A FIELD RUN BOUNDARY AND TOPOGRAPHIC SURVEY
- PERFORMED BY NUR & ASSOCIATES IN SEPTEMBER OF 2017. 4. THERE IS NO FLOODPLAIN ON SITE. 5. THERE ARE NO STEEP SLOPES 25% OR GREATER, FOREST, WETLANDS, STREAMS
- OR ANY ASSOCIATED BUFFERS LOCATED ON THIS SITE. 6. THERE ARE NO CRITICAL HABITATS OF RARE, THREATENED OR ENDANGERED
- SPECIES ON SITE. TOTAL AREA WITHIN LOD = 18,014 SQ.FT.
- THIS PROJECT IS LOCATED WITHIN THE LITTLE PATUXENT RIVER WATERSHED. APPROVAL OF THIS ECP DOES NOT CONSTITUTE AN APPROVAL OF ANY SUBSEQUENT SUBDIVISION, FOREST CONSERVATION OR SITE DEVELOPMENT PLAN. THE APPLICANT AND CONSULTANT SHOULD EXPECT ADDITIONAL AND MORE DETAILED COMMENTS THAT MAY ALTER THE SITE DESIGN, HOUSE LOCATION, DRIVEWAY LOCATION GRADING, TREE CLEARING, AND/OR OTHER REQUIREMENTS AS THE DEVELOPMENT PLAN PROCESS THROUGH THE PLAN REVIEW PROCESS IN
- ACCORDANCE WITH THE SUBDIVISION AND ZONING REGULATIONS. 10. THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 ATLEAST
- 48 HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE. 11. CONTRACTOR TO MAINTAIN POSITIVE SLOPE AWAY FROM THE FOUNDATION OF
- THE HOUSE.
- 12. PREVIOUS DPZ FILE REFERENCE: PLAT BOOK 4, PAGE 41. 13. THE SUBJECT PROPERTY IS EXEMPT FROM FOREST CONSERVATION
- REQUIREMENTS PER SECTION 16.1202(b)(1)(i) AS THE PROPERTY IS LESS THEN 40,000 SQUARE FEET.
- 14. LANDSCAPING WILL BE PROVIDED AT THE SITE DEVELOPMENT PLAN STAGE OF THIS PROJECT.

VICINITY MAP SCALE: 1" = 2000'

ADC MAP-28, GRID-A5

SWM Concept Design Narrative

Stormwater management at the proposed development will be addressed by implementing Environmental Site Design (ESD) practices to the maximum extent possible (MEP), in accordance with the revised Maryland Department of the Environment (MDE) Stormwater Design Manual Chapter 5.

The proposed development is not within any Critical Areas per Appendix D.4, nor is this a redevelopment project, or a commercial/industrial project. This site is not defined as a hot

Environmental Site Design (ESD) will be achieved for the project by structural ESD practices. These include one Micro-Bioretention (M-6), Permeable Concrete (A-2) and Non-

Rooftop Disconnects (N-2).

The property is currently vacant as the house on this lot was demolished. A new, 4,300 square feet house is proposed, with a new 12-foot wide driveway constructed according to

The property will be serviced by public water and a public sewer system. The property is not subject to Historic District Commission requirements. The property does not lie within the BWI Airport Noise Zone or the Airport Zoning District. Furthermore, the property is not subject to Design Advisory Panel review (Route 1 or Route 40 Corridor).

Natural Resources Protection and Enhancement

The property is primarily occupied with grass. No specimen trees are proposed to be cut. There are no other significant environmental features or areas on site. There is no offsite drainage area draining through the site.

The proposed construction of the new house and driveway is anticipated to cause disturbance of approximately 18,014 square feet of area.

Maintenance of Natural Flow Patterns

Natural topography of the site exhibits runoff sheet flowing in northern directions from south side and around the proposed house located approximately in the middle of the property. The proposed design maintains the natural flow patterns on site. Minimal grading will be performed to preserve the hydrologic characteristics of the land to its pre-development stage. The post-developed drainage patterns very closely mimic the existing hydrology. All runoff from proposed impervious areas and from treatment facilities flow directly onto grassed areas, before being conveyed to the ultimate discharge points.

Reduction of Impervious Areas

The house footprint has been minimized by proposing a mid-sized 2-story house with basement rather than a rancher-style design. The proposed driveway width will be kept to the 12' and an access to a two car garage. The limit of disturbance is kept to a minimum possible for this site.

Integration of Erosion & Sediment Controls into SWM Strategy A stabilized construction entrance will ensure that any construction equipment does not track mud onto public roads. Super silt fence will be installed on downstream side of the limit of disturbance to trap any sediment-laden runoff during construction.

Implementation of ESD Planning Techniques and Practices The following is an overview of applicability for stormwater ESD practices considered for this

Alternative Surfaces: ESD practice includes green roofs and reinforced turf. Green roofs were not applied due to the relative high cost of the system for a residential structure. Reinforced turf has not been used, since frequent vehicle movement is expected on the

Nonstructural Practices: ESD practice involves directing flow from impervious areas onto vegetated areas where it can soak into or filter over ground instead of being connected to storm drain system. Disconnection of Non-Rooftop Runoff (N-2) was applied for the sidewalk but no ESDv credit was included on the calculation for that. Disconnection of Rooftop runoff (N-1) was not applied as slopes are greater then 5%, to facilitate natural treatment and infiltration of rainwater into the ground. Sheetflow to Conservation Areas (N-3) is not applicable since there are no preserved environmental areas downstream of outfall.

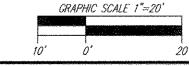
Structural Micro-Scale Practices: Micro-Bioretention (M-6) and Permeable Pavement (A-2) will be used to treat runoff from the rooftop downspouts and the driveway. These items were unable to be disconnected for sufficient length to be eligible as N-1 practices.

Waiver to Environmental Regulations

No Alternative Compliance will be required for construction of a single family on this property.

SHEET INDEX			
DESCRIPTION			
SITE LAYOUT, GRADING & SOIL EROSION AND SEDIMENT CONTROL PLAN	1 OF 2		
SITE DETAILS AND NOTES	2 OF 2		





ENVIRONMENTAL CONCEPT PLAN GARRIAN ORCHARDS SECTION 2

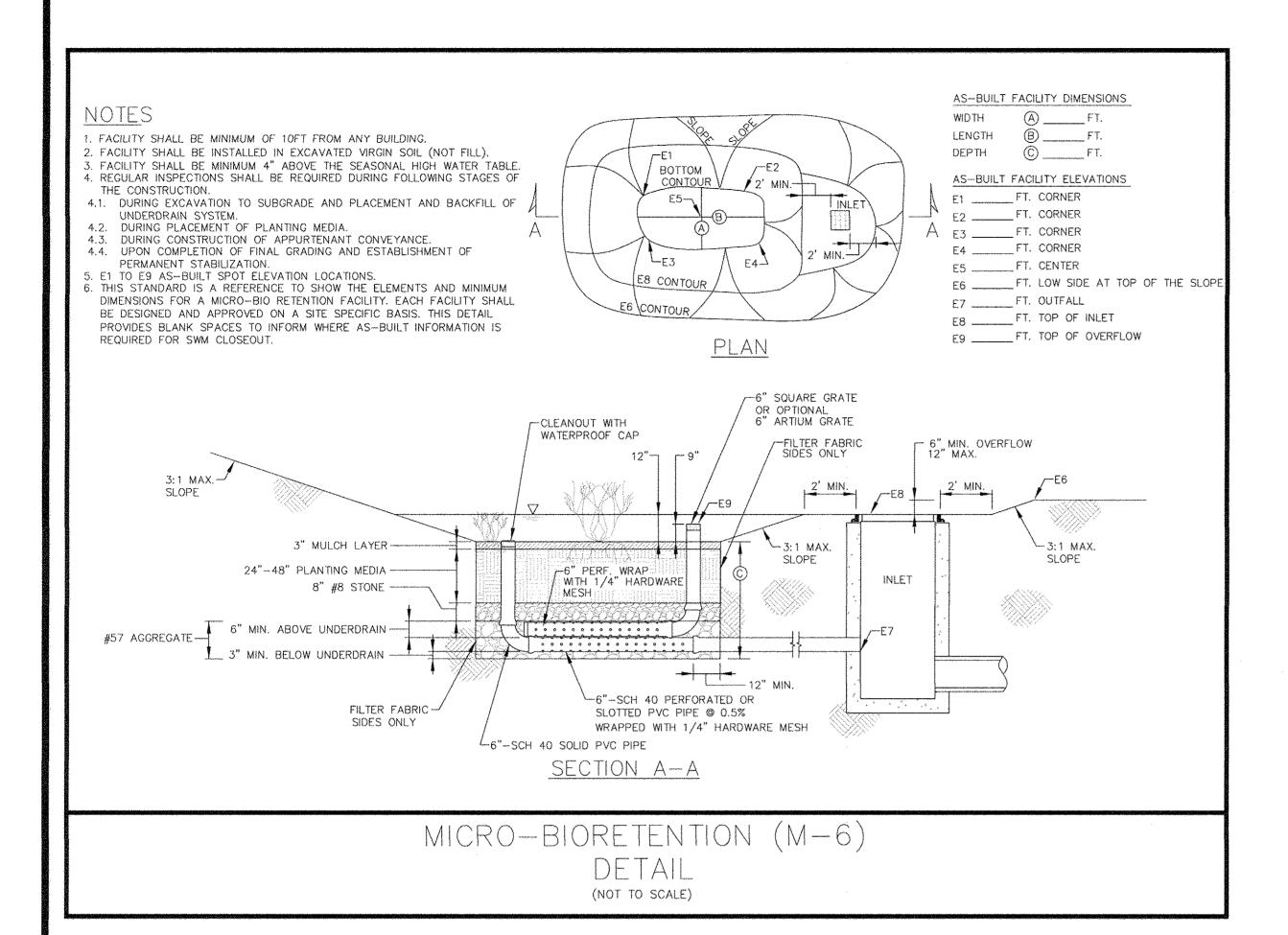
PLAT BOOK 4, PAGE 41 TAX MAP 31. GRID 7, PARCEL 290

4814 HALE HAVEN DRIVE, ELLICOTT CITY 2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND

DATE: MAY 24, 2018

JOB NO.: 3425

SCALE: 1" = 20'



Material	Specification	Size	Notes
Plantings	see Appendix A, Table A.4	n/a	plantings are site-specific
Planting soil [2' to 4' deep]	loamy sand (60 - 65%) & compost (35 - 40%) or sandy loam (30%), coarse sand (30%) & compost (40%)	n/a	USDA soil types loamy sand or sandy loam; clay content < 5%
Organic content	Min. 10% by dry weight (ASTM D 2974)		
Mulch	shredded hardwood		aged 6 months, minimum; no pine or wood chips
Pea gravel diaphragm	pea gravel: ASTM-D-448	NO. 8 OR NO. 9 (1/8" TO 3/8")	
Curtain drain	ornamental stone: washed cobbles	stone: 2" to 5"	.
Geotextile		n/a	PE Type 1 nonwoven
Gravel (underdrains and infiltration berms)	AASHTO M-43	NO. 57 OR NO. 6 AGGREGATE (3/8" to 3/4")	
Underdrain piping	F 758, Type PS 28 or AASHTO M-278	4" to 6" rigid schedule 40 PVC or SDR35	Slotted or perforated pipe; 3/8" perf. @ 6" on center, 4 holes per row; minimum of 3" of gravel over pipes; not necessary underneath pipes. Perforated pipe shall be wrapped with ¼-inch galvanized hardware cloth
Poured in place concrete (if required)	MSHA Mix No. 3; f' _c = 3500 psi @ 28 days, normal weight, air-entrained; reinforcing to meet ASTM-615-60	n/a	on-site testing of poured-in-place concrete required: 28 day strength and slump test; all concrete design (cast-in-place or pre-cast) not using previously approved State or local standards requires design drawings sealed and approved by a professional structural engineer licensed in the State of Maryland - design to include meeting ACI Code 350.R/89; vertical loading [H-10 or H-20]; allowable horizontal loading (based on soil pressures); and analysis of potential cracking
Sand	AASHTO-M-6 or ASTM-C-33	0.02" to 0.04"	Sand substitutions such as Diabase and Graystone (AASHTO) #10 are not acceptable. No calcium carbonated or dolomitic sand substitutions are acceptable. No "rock dust" can be used for sand

BIORETENTION AREA SOIL SPECIFICATION

A. PLANTING SOIL:

THE BIORETENTION AREA SHALL CONSIST OF A PLANTING SOIL HAVING A HOMOGENOUS MIX OF 50% CONSTRUCTION SAND, 20-30% TOPSOIL WITH AN ALLOWABLE 5% MAXIMUM CLAY CONTENT, AND 20-30% ORGANIC COMPOST OR MULCH TO PROVIDE A SOIL MEDIUM

WITH HIGH HYDROLOGIC CAPACITY. THE PLANTING SOIL SHALL BE FREE OF PLANTS OR PLANT PARTS OF BERMUDA GRASS, QUAKE GRASS, JOHNSON GRASS, MUGWART, NUTSEDGE, POISON IVY, CANDIAN THISTILE OR OTHER

IT SHALL NOT CONTAIN TOXIC SUBSTANCES HARMFUL TO PLANT

THE PLANTING SOIL SHALL BE TESTED AND MEET THE FOLLOWING CRITERIA: PH RANGE 5.5 - 6.5

ORGANIC MATTER 15 - 30% THE FOLLOWING TESTING FREQUENCIES SHALL APPLY TO THE ABOVE SOILS: PH ORGANIC MATTER: 1 TEST PER 90 CUBIC YARDS, BUT NOT MORE THAN 1 TEST PER BIORETENTION AREA. ONE GRAIN SIZE ANALYSIS SHALL BE PERFORMED PER 90 CUBIC YARDS OF PLANTING SOIL, BUT NO LESS THAN 1 TEST PER BIORETENTION AREA.

MULCH LAYER SPECIFICATION:

A MULCH LAYER SHALL BE PROVIDED ON TOP OF PLANTING SOIL. AN ACCEPTABLE MULCH LAYER SHALL INCLUDE SHREDDED HARDWOOD OR SHREDDED WOOD CHIPS OR OTHER SIMILAR PRODUCTS APPROVED BY THE HOWARD COUNTY DEPARTMENT OF ENVIRONMENTAL

OF THE APPROVED MULCH PRODUCTS, ALL MUST BE WELL AGED, UNIFORM IN COLOR, AND FREE OF FOREIGN MATERIALS, INCLUDING PLANT MATERIAL. WELL AGED MULCH IS DEFINED AS MULCH THAT HAS BEEN STOCK PILED OR STORED FOR AT LEAST TWELVE (12) MONTHS.

THE SAND SHALL BE FREE OF DELETERIOUS MATERIAL AND ROCKS GREATER THAN ONE INCH IN DIAMETER.

COMPACTION: SOIL SHALL BE PLACED IN LIFTS LESS THAN 18 INCHES AND LIGHTLY COMPACTED.

BIORETENTION AREA PLANT SPECIFICATION

- ROOT STOCK OF PLANT MATERIAL SHALL BE KEPT MOIST DURING TRANSPORT FROM SOURCE TO THE JOB SITE AND UNTIL PLANTED.
- __ WALLS OF PLANTING PIT SHALL BE DUG SO THAT THEY ARE VERTICAL
- __ THE DIAMETER OF PLANTING PIT MUST BE A MINIMUM OF SIX INCHES LARGER THAN THE DIAMETER OF THE ROOT BALL.
- __ THE PLANTING PIT SHALL BE DEEP ENOUGH TO ALLOW 1/4 OF THE BALL TO BE ABOVE THE EXISTING GRADE. LOOSE SOIL AT THE BOTTOM OF THE PIT SHALL BE TAMPED BY HAND. __ THE APPROPRIATE AMOUNT OF FERTILIZER IS TO BE PLACED AT THE BOTTOM OF THE PIT.
- __ THE PLANT SHALL BE REMOVED FROM THE CONTAINER AND PLACED AT THE BOTTOM OF THE PLANTING PIT BY LIFTING AND CARRYING THE PLANT BY ITS BALL. NEVER LIFT THE PLANT BY THE BRANCHES OR TRUNK.
- ___ SET THE PLANT STRAIGHT AND IN THE CENTER OF THE PIT SO THE CENTER OF THAT THE BALL IS APPROXIMATELY 1/4 ABOVE THE FINAL GRADE.
- __ BACKFILL PLANTING PIT WITH EXISTING SOIL.
- ___ MAKE SURE PLANT REMAINS STRAIGHT DURING BACKFILLING __ NEVER COVER THE TOP OF THE BALL WITH SOIL. MOUND SOIL
- AROUND THE EXPOSED SIDE OF THE BALL. ___ MAKE SURE MULCH DOES NOT CONTACT TREE'S TRUNK.
- __ TREE SHALL BE BRACED USING 2" X 2" WHITE OAK: STAKES. STAKES SHALL BE PLACED PARALLEL TO WALKWAYS AND BUILDINGS. STAKES ARE TO BE EQUALLY SPACED ON THE OUTSIDE OF THE TREE BALL. THE TREE IS BRACED TO THE STAKES UTILIZING HOSE AND WIRES.

FERTILIZER:

HIEF, DIVISION OF LAND DEVELOPMENT 15

__ TREE AND SHRUB FERTILIZER SHALL BE A 21 gm. TIGHTLY COMPRESSED, LONG LASTING, SLOW RELEASE (2-YEAR) FERTILIZER TABLET WITH MINIMUM GUARANTEED ANALYSIS OF 20-10-5:

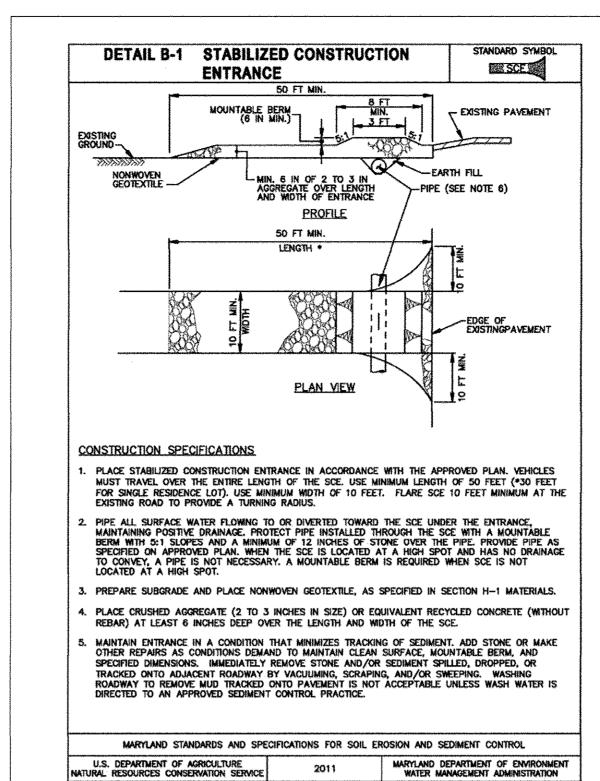
TOTAL NITROGEN (N) - 20% WATER SOLUBLE ORGANIC NITROGEN - 7% WATER IN SOLUBLE ORGANIC NITROGEN - 13% AVAILABLE PHOSPHORIC ACID (P2 05) - 10% SOLUBLE POTASH (K20) - 5%

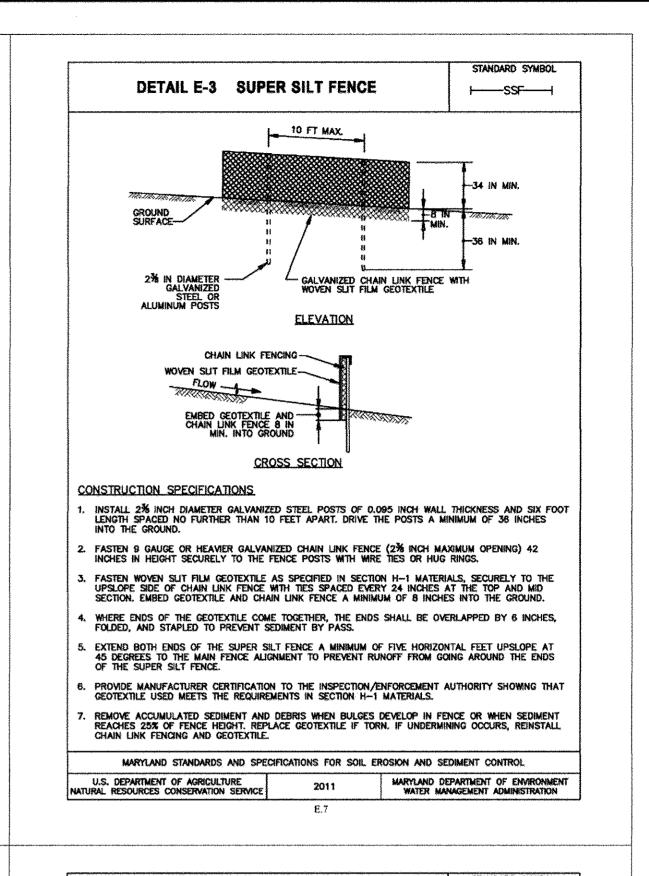
__ FOR CONTAINERIZED TREES AND SHRUBS, PLACE THE SPECIFIED FERTILIZER TABLET(S) IN THE BOTTOM OF THE PLANTING PIT ACCORDING TO THE FOLLOWING RATES:

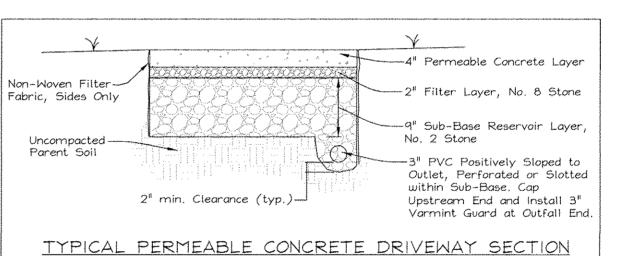
> 1 GAL. CONTAINER 1 ea, 21 gm. TABLETS. 3 GAL. CONTAINER 2 ea, 21 gm. TABLETS. 5 GAL. CONTAINER 3 ea, 21 gm. TABLETS. 7 GAL. CONTAINER 5 ea, 21 gm. TABLETS.

PLANTING NON-GRASS GROUND COVER:

- __ THE GROUND COVER PLANTING HOLES SHALL BE DUG THROUGH THE MULCH WITH ONE OF THE FOLLOWINGS: HAND TROWEL, SHOVEL, BULB PLANTER, OR HOE (THIS DOES NOT APPLY TO GRASS OR LEGUMES).
- __ BEFORE PLANTING BIODEGRADABLE POTS, THEY SHALL BE SPLIT, AND NON BIODEGRADABLE POTS SHALL BE REMOVED. ROOT SYSTEMS OF THE POTTED PLANTS SHALL BE SPLIT OR
- CRUMBLED. __ THE GROUND COVER SHALL BE PLANTED SO THAT ROOTS ARE SURROUNDED BY THE SOIL BELLOW THE MULCH. POTTED PLANTS SHALL BE SET SO THAT THE TOP OF THE POT IS EVEN WITH THE EXISTING GRADE. THE ROOTS OF BARE-ROOT PLANTS SHALL BE COVERED TO THE CROWN.
- ___ THE MULCH AND PLANTED GROUND COVER BED SHOULD BE
- SHOULD BE COVERED WITH A PRE-EMERGENT HERBICIDE. __ THE ENTIRE GROUND COVER BED SHALL BE THOROUGHLY







NOT TO SCALE OPERATION AND MAINTENANCE SCHEDULE FOR

PRIVATELY OWNED AND MAINTAINED PERMEABLE PAVEMENT(A-2)

1. Pavement surfaces should be swept and vacuumed (if porous concrete) to reduce sediment accumulation and ensure continued surface porosity. Sweeping should be performed at least twice annually with a commercial cleaning unit. Washing or compressed air units should not be used to perform surface cleaning.

2. Drainage pipes, inlets, stone edge drains and other structures within or draining to the subbase should be cleaned out at regular intervals.

3. Deicers should be used in moderation. Deicers should be non-toxic and be applied either as calcium magnesium acetate or as pretreated salt. Snow plowing should be done carefully with blades set one-inch above the surface. Plowed snow piles and snowmelt should not be directed to permeable pavement.

CENTER TO CENTER 36 IN MIN. FENCE POST LENGTH DRIVEN MIN. 16 IN INTO GROUND 16 IN MIN. HEIGHT OF WOVEN SLIT FILM GEOTEXTILE ELEVATION WOVEN SLIT FILM----EMBED GEOTEXTILE-MIN. OF 8 IN VERTICALLY INTO THE GROUND. BACKFILL AND COMPACT THE SOIL ON BOTH SIDES OF GEOTEXTILE. CROSS SECTION JOINING TWO ADJACENT SILT FENCE SECTIONS (TOP VIEW) 1 OF 2 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE

DETAIL E-1 SILT FENCE

├----SF-----

OPERATION AND MAINTENANCE SCHEDULE FOR MICRO-BIO RETENTION (M-6) 1. 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.

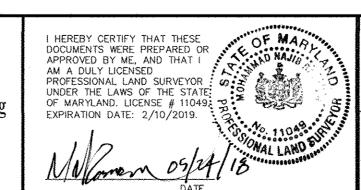
2. The Owner shall perform a plant in the spring and in the fall of each year. During the inspection, the Owner shall remove dead and diseased vegetation considered beyond treatment, replace dead plant material with acceptable replacement plant material, treat diseased trees and shrubs, and replace all deficient stakes and

3. 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

4. The Owner shall correct soil erosion on an as needed basis, with a minimum of once per month and after each heavy storm.



DEPARTMENT OF PLANNING AND ZONING APPROVED: PLAN PREPARED BY: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I NJR & ASSOCIATES AM A DULY LICENSED PROFESSIONAL LAND SURVEYOR 6.15-18 UNDER THE LAWS OF THE STATE Land Surveying and Planning DEVELOPMENT ENGINEERING DIVISION DATE OF MARYLAND, LICENSE # 11049; 2 EXPIRATION DATE: 2/10/2019. 2770 STATE ROUTE 32 WEST FRIENDSHIP, MD 21794 6-4-18 TEL: (240) 508-3200



DEVELOPER CARUSO HOMES 2120 BALDWIN AVENUE, SUITE-200 CROFTON, MD 21144 (301) 261-0277

OWNER MARTIN CHANGSOO HONG 4814 HALE HAVEN DRIVE ELLICOTT CITY, MD 21043 (206) 902-7562

ENVIRONMENTAL CONCEPT PLAN GARRIAN ORCHARDS SECTION 2 PLAT BOOK 4, PAGE 41 TAX MAP 31, GRID 7, PARCEL 290 4814 HALE HAVEN DRIVE, ELLICOTT CITY 2nd ELECTION DISTRICT HOWARD COUNTY. MARYLAND DATE: MAY 24, 2018 SCALE: 1" = 20' JOB NO.: 3425 SHEET: 2 OF 2