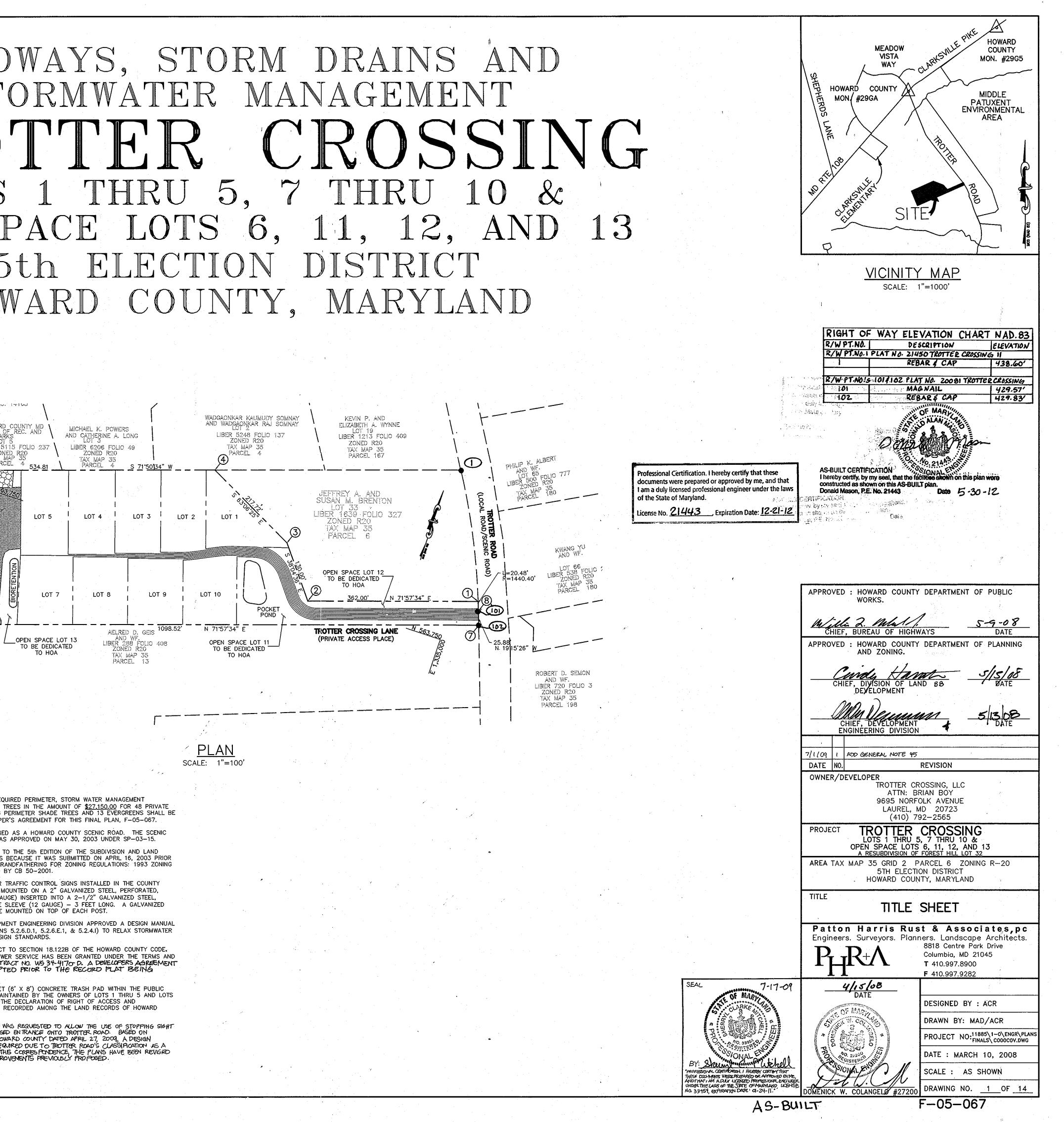
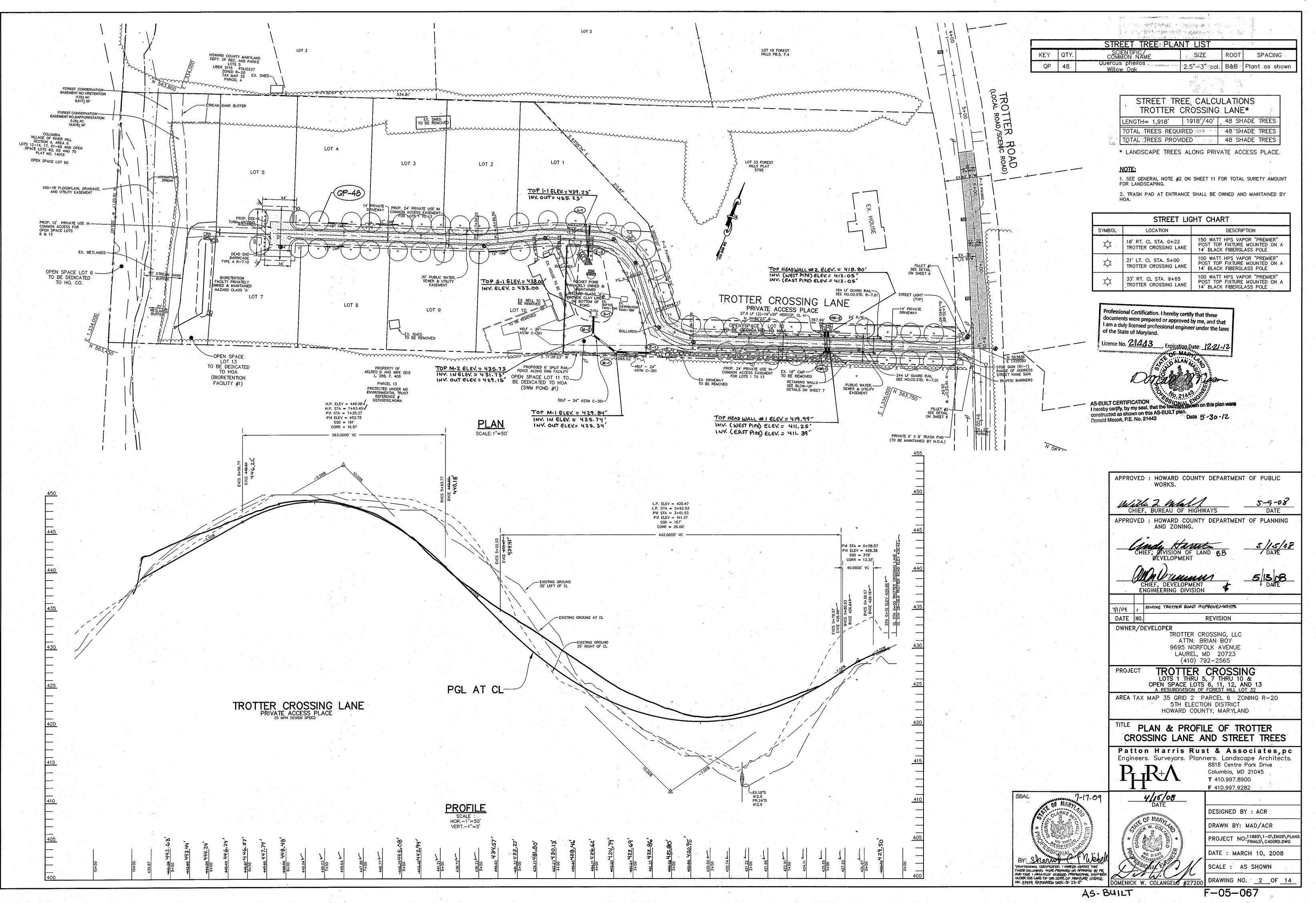
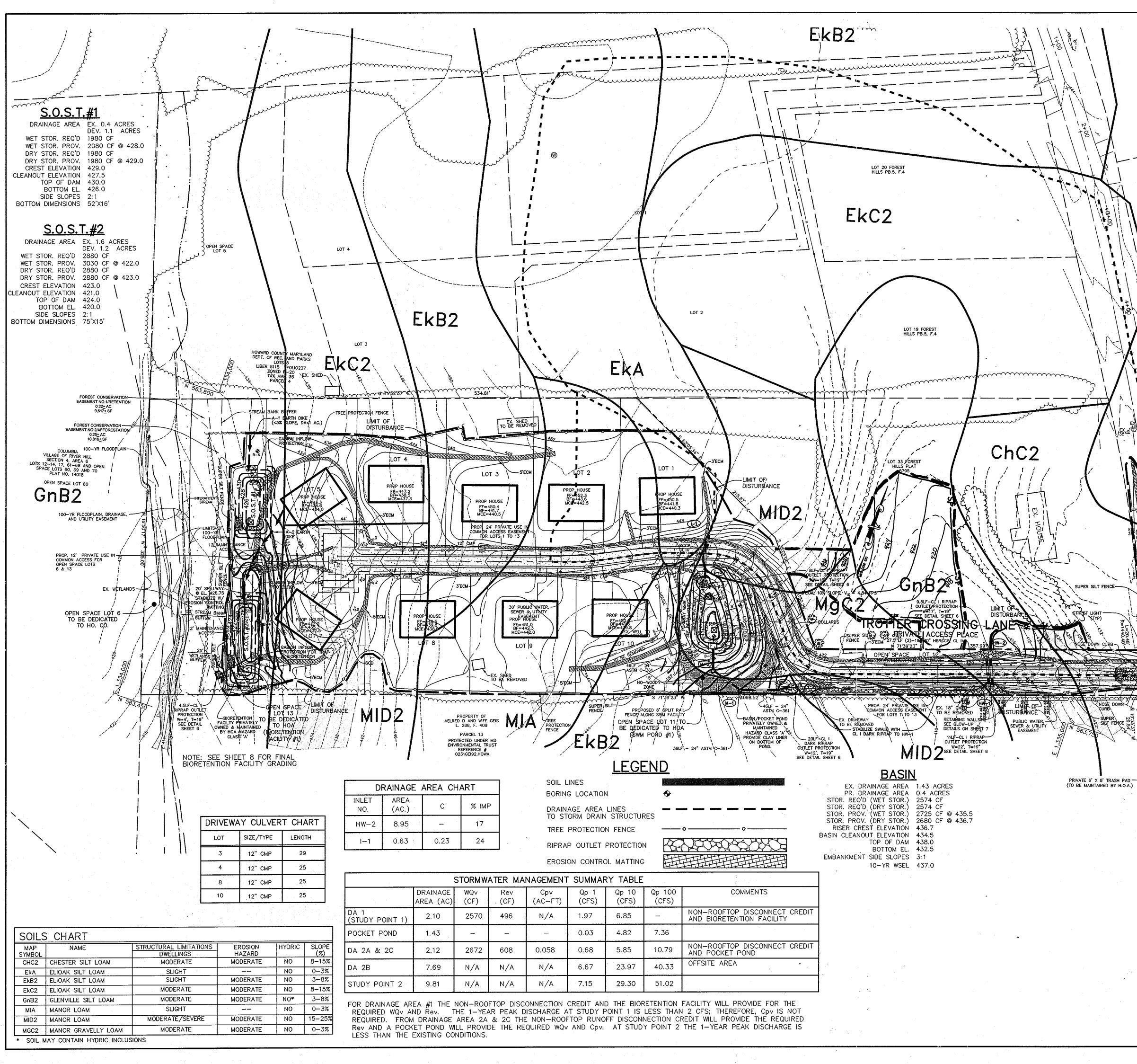
	SHEET INDEX				
NO	DESCRIPTION		۱.		
1	TITLE SHEET PLAN & PROFILE OF TROTTER CROSSING LANE AND STREET TREES		· ·	$\mathbf{R}()$	
3	GRADING, SEDIMENT CONTROL PLAN AND DRAINAGE AREA MAP				
4	SEDIMENT CONTROL NOTES				CILI
5 6	STORMWATER MANAGEMENT PROFILES AND DETAILS PROFILES AND DETAILS				
7	STRUCTURAL RETAINING WALL DETAILS				
8	SEDIMENT CONTROL DETAILS	T			
9 10	DETAILS AND PROFILES				
	FINAL LANDSCAPE PLAN				
12	LANDSCAPE PLAN NOTES & DETAILS		•	TO	TC
	FINAL FOREST CONSERVATION PLAN FOREST CONSERVATION NOTES & DETAILS				L D
	INERAL NOTES	$\cap \mathbf{I}$		יד <b>ר</b> י	CI
	ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOL. IV "STANDARD SPECIFICATIONS				
2.	AND DETAILS FOR CONSTRUCTION" PLUS MSHA STANDARDS AND SPECIFICATIONS, IF APPLICABLE. THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/BUREAU OF ENGINEERING/CONSTRUCTION INSPECTION				-
	DIVISION AT (410) 313-1880 AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE START OF WORK.	• •			
3.	THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE.	1			
4.	TRAFFIC CONTROL DEVICES, MARKINGS, AND SIGNING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). ALL STREET AND REGULATORY SIGNS SHALL BE IN PLACE PRIOR TO THE PLACEMENT OF ANY ASPHALT.	· . ·			
5.	STREET LIGHT PLACEMENT AND THE TYPE OF FIXTURE AND POLE SHALL BE IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOLUME III (1993) AND AS MODIFIED BY "GUIDELINES FOR STREET LIGHTS IN RESIDENTIAL DEVELOPMENTS, (JANUARY 1998)." A MINIMUM SPACING OF 20' SHALL BE MAINTAINED BETWEEN ANY STREET LIGHT AND ANY TREE. SEE SHEET 2 FOR DETAILS.				
6.	THE EXISTING TOPOGRAPHY IS TAKEN FROM FIELD STUDY WITH MAXIMUM TWO FOOT CONTOUR INTERVALS PREPARED BY PATTON HARRIS RUST AND ASSOCIATES IN DECEMBER, 2002.			. ·	
7.	THE COORDINATES SHOWN HEREON ARE BASED UPON THE HOWARD COUNTY GEODETIC CONTROL WHICH IS BASED UPON THE MARYLAND STATE PLANE COORDINATE SYSTEM. HOWARD COUNTY MONUMENT NOS. 421A AND 421B.				· · ·
8.	PUBLIC WATER WILL BE EXTENDED TO THE SITE FROM PUBLIC WATER LOCATED APPROXIMATELY 1400' SOUTH OF THE SITE IN TROTTER ROAD. PUBLIC WATER WILL CONNECT TO WATER BEING CONSTRUCTED UNDER HOWARD COUNTY CAPITAL PROJECT # S-6239. THE EXISTING PRIVATE WELL AND SEPTIC FACILITIES WILL BE ABANDONED IN ACCORDANCE WITH HOWARD COUNTY HEALTH DEPARTMENT GUIDELINES. THE CONTRACT NUMBER FOR THE PUBLIC WATER LINE SERVING THIS DEVELOPMENT IS			• • • •	PEAR NO.
9.	34-4170-D. SEWER DRAINAGE AREA: LITTLE PATUXENT. PUBLIC SEWER WILL BE EXTENDED TO THE SITE FROM PUBLIC SEWER LOCATED APPROXIMATELY 1100' SOUTH OF THE SITE IN TROTTER ROAD. PUBLIC SEWER WILL CONNECT TO SEWER BEING CONSTRUCTED UNDER HOWARD COUNTY CAPITAL PROJECT # S-6239. THE CONTRACT NUMBER FOR THE PUBLIC SEWER SERVING THIS				HOWARD DEPT OF PARK LOT LIBER 51
10.	DEVELOPMENT IS 34-4170-D. THE PRIVATELY OWNED AND MAINTAINED STORMWATER MANAGEMENT FOR THIS SITE WILL BE PROVIDED BY A BIORETENTION FACILITY AND A POCKET POND.	F	OREST CONS	ERVATION	D TAX M PARCI
11.	APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO CONTRACTOR'S OPERATION SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE. EXISTING UTILITIES ARE SHOWN BASED ON THE BEST AVAILABLE INFORMATION.	E FORE	ASEMENT NO	0.1/RETENTION	32500
12.	THE WETLANDS DELINEATION STUDY FOR THIS PROJECT WAS PREPARED BY PATTON HARRIS RUST AND ASSOCIATES, DATED DECEMBER 2002.		OPEN SF TO BE	PACE LOT 6 DEDICATED	
13.	THE TRAFFIC STUDY FOR THIS PROJECT WAS PREPARED BY MARS GROUP AND APPROVED DATED MAY 15, 2003.	588	ID LAND HO	HO. CO.	16:3
	A NOISE STUDY IS NOT REQUIRED FOR THIS PROJECT.	ATT	LOT ( N. TAX COM	30 . MITTEE PROP	2'06"
	THE BOUNDARY SURVEY FOR THIS PROJECT WAS PREPARED BY PATTON HARRIS RUST AND ASSOCIATES DATED MARCH 2003.		IBER 5289		
	SUBJECT PROPERTY ZONED R-20 PER 02-02-04 COMPREHENSIVE ZONING PLAN. ALL ELEVATIONS SHOWN ARE BASED ON THE U.S.C. AND G.S. MEAN SEA LEVEL DATUM, 1929.		ZONED PARCEL TAX MA	464 😽	
	SEE DEPARTMENT OF PLANNING AND ZONING FILE NO'S.: F-84-12. (FOREST HILLS LOT 32), SP-03-15, WP-03-123			ш.L	
19.	THE CONTRACTOR SHALL TEST PIT EXISTING UTILITIES AT LEAST (5) DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS.			· · · · · ·	563, 500
20.	CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES, AND SAFETY PRECAUTIONS AND PROGRAMS.			6	
21.	PIPE SHALL NOT BE INSTALLED BY THE CONTRACTOR UNTIL THE LENGTH CALLED FOR AT EACH STATION HAS BEEN APPROVED BY THE ENGINEER IN THE FIELD.				
22.	NO PIPE SHALL BE LAID UNTIL LINES OF EXCAVATION HAVE BEEN BROUGHT WITHIN 6" OF FINISHED GRADE.		•		
	ALL INLETS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOWARD COUNTY STANDARDS.	_^			
1.1	ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.				
25.	STORM DRAIN TRENCHES WITHIN ROAD RIGHT OF WAY SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, i.e., STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION, LATEST AMENDMENTS.				
	PROFILE STATIONS SHALL BE ADJUSTED AS NECESSARY TO CONFORM TO PLAN DIMENSIONS.				
•	DESIGNED TRAFFIC SPEED IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL VOL. III. ALL 40' RIGHT OF WAYS 20 M.P.H.				
28.	ALL FILL AREAS WITHIN ROADWAY AND UNDER STRUCTURES TO BE COMPACTED TO A MINIMUM OF 95% COMPACTION OF AASHTO T180.	•			
	ALL STREET CURB RETURNS SHALL HAVE 25' RADII UNLESS OTHERWISE NOTED.	· .			
30.	STREETLIGHTS WILL BE REQUIRED IN THIS DEVELOPMENT IN ACCORDANCE WITH THE DESIGN MANUAL. STREET LIGHT PLACEMENT AND THE TYPE OF FIXTURE AND POLE SELECTED SHALL BE IN ACCORDANCE WITH THE LATEST HOWARD COUNTY DESIGN MANUAL, VOLUME III (1993) AND AS MODIFIED BY "GUIDELINES FOR STREET LIGHTS IN RESIDENTIAL DEVELOPMENTS (JUNE 1993)." THE JUNE 1993 POLICY INCLUDES GUIDELINES FOR LATERAL AND LONGITUDINAL PLACEMENT. A MINIMUM SPACING OF 20' SHALL BE MAINTAINED BETWEEN ANY STREETLIGHT AND ANY TREE.		38	LANDSCAPIN	URETY FOR REQU G AND STREET TF EET TREES, 36 P
31.	TYPE AND NUMBER OF STREET TREES SHOWN ON THIS PLAN ARE TENTATIVE AND ARE USED FOR BOND PURPOSES ONLY. THE FINAL LOCATION AND VARIETY OF LOCATION AND VARIETY OF TREES MAY VARY TO ACCOMMODATE FIELD CONDITIONS INCLUDING		39	4 - 1 1	I THE DEVELOPER AD IS CLASSIFIED
	20° CLEARANCE OF ANY STREET LIGHT AND SHALL BE IN ACCORDANCE WITH THE SUBDIVISION REGULATIONS AND THE LANDSCAPE MANUAL BOND RELEASE IS CONTINGENT UPON SECTION 16.124 OF THE HOWARD COUNTY SUBDIVISION REGULATIONS, AS APPROVED BY THE DEPARTMENT OF PLANNING AND ZONING.		40		T ANALYSIS WAS
32.	THERE ARE THREE EXISTING PERMANENT STRUCTURES ON-SITE. ALL EXISTING STRUCTURES WILL BE REMOVED.		÷	DEVELOPMEN TO MAY 22,	T REGULATIONS E 2003. THE GRA
33.	NO CLEARING, GRADING OR CONSTRUCTION IS PERMITTED WITHIN THE STREAM, WETLANDS, THEIR BUFFERS, FLOODPLAIN OR FOREST CONSERVATION EASEMENTS.		· 41		S AS AMENDED B
34.	WETLANDS, 100 YEAR FLOODPLAIN, AND +15% SLOPES HAVE BEEN SHOWN.		• •	RIGHT-OF-W SQUARE TUB	AY SHALL BE MC E POST (14 GAU
35.	BASED ON AVAILABLE COUNTY MAPS AND RECORDS, THERE ARE NO HISTORIC STRUCTURES OR KNOWN CEMETERIES LOCATED ON THE SUBJECT PROPERTY.		· ·		SQUARE TUBE S CAP SHALL BE M
36.	WP-03-123 - A REQUEST TO WAIVE SECTION 16.121(e)(1) OF THE HOWARD COUNTY SUBDIVISION AND LAND DEVELOPMENT REGULATIONS - OPEN SPACE LOTS SHALL HAVE A MINIMUM OF 40 FEET OF FRONTAGE ON A PUBLIC ROAD WHICH IS SUITABLE	•	42	WAIVER (VOL	2003, DEVELOPME UME I, SECTIONS
	FOR ACCESS BY PEDESTRIANS AND MAINTENANCE VEHICLES; OPEN SPACE FRONTAGE MAY BE REDUCED TO 20 FEET IF THE ADJACENT SIDE YARD SETBACK OF ABUTTING LOTS IS INCREASED BY 10 FEET, AND 16.120(b)(4)(iv) - RESIDENTIAL LOTS SHALL		4.7		F POND #1 DESIG
· •	NOT BE ENCUMBERED BY ACCESS EASEMENTS FOR STORMWATER MANAGEMENT FACILITIES OR OPEN SPACE HAS BEEN APPROVED BY LETTER DATED JUNE 2, 2003 AND SUBJECT TO THE FOLLOWING CONDITIONS: (1) THE DEVELOPER SHALL TRANSFER, IN ACCORDANCE WITH COMMENTS FROM THE DEPARTMENT OF RECREATION AND PARKS, OPEN SPACE LOT 6 TO HOWARD COUNTY. IN		· · ·	PUBLIC WATE PROVISIONS	THEREOF, CONTR
	ADDITION THE DEVELOPER SHALL PROVIDE A 12' WIDE (MINIMUM) ACCESS EASEMENT FOR PEDESTRIAN AND VEHICULAR ACCESS TO OPEN SPACE LOT 6. THIS EASEMENT SHALL BE WITHIN THE	•		WILL BE FILL RECORDE	ED AND ACCEPTI D.
	PROPOSED USE IN COMMON DRIVEWAY EASEMENT SERVING RESIDENTIAL LOTS TO THE WESTERN TERMINUS OF THAT SHARED DRIVEWAY EASEMENT AND BEYOND TO THE BOUNDARY OF OPEN SPACE LOT 6. (2) A MAINTENANCE AGREEMENT FOR THE SHARED DRIVEWAY WITHIN A 24 FOOT WIDE EASEMENT SHALL BE RECORDED WITH THE CORRESPONDING SUBDIVISION PLAT. THIS DOCUMENT	•	44	RIGHT-OF-W	BY EIGHT FEET
	SHALL PROVIDE FOR ACCESS TO OPEN SPACE LOT 6 BUT SHALL EXCLUDE THE DEPARTMENT OF RECREATION AND PARKS FROM ALL MAINTENANCE OBLIGATIONS. (3) ON ALL PLANS AND PLATS, THE 24 FOOT WIDE USE-IN-COMMON ACCESS EASEMENT SERVING	на страна на страна им			PURSUANT TO TH E OBLIGATIONS RI RYLAND.
	RESIDENTIAL LOTS SHALL ALSO BE LABELED AS SERVING OPEN SPACE LOT 6. (4) OPEN SPACE LOTS 11 AND 12 SHALL BE OWNED BY THE HOMEOWNER'S ASSOCIATION FOR THIS SITE. ON ALL PLANS, LABEL ACCESS PROVIDED TO OPEN SPACE LOTS 11 AND 12 FROM THE USE-IN-COMMON DRIVEWAY. MAKE THAT STIPULATION A PART OF THE MAINTENANCE AGREEMENT.		45	A DESIGN M	NUAL WAIVER W
37.	FOREST CONSERVATION OBLIGATIONS FOR THIS SITE IN ACCORDANCE WITH SECTION 16.1202 OF THE HOWARD COUNTY CODE AND		•	CORRESPONT MANUAL WAY	ENCE FROM HOW
	FOREST CONSERVATION MANUAL SHALL BE MET BY THE PLACEMENT OF .22 ACRES OF EXISTING FOREST INTO A RETENTION EASEMENT, PLACEMENT OF .25 ACRES OF AFFORESTATION INTO AN EASEMENT AND PAYMENT OF A FEE-IN-LIEU FOR THE BALANCE OF REQUIRED AFFORESTATION OF .29 ACRES IN THE AMOUNT OF \$9,474.30 (12,632 SQ.FT. X .75 CENTS) TO THE FOREST CONSERVATION FUND. SURETY FOR THE .22 ACRES OF RETENTION IN THE AMOUNT OF \$1,916.64 AND FOR THE .25 ACRES OF AFFORESTATION IN THE AMOUNT OF \$5,445.00 FOR A TOTAL OF \$7,361.64 SHALL BE POSTED WITH THE DEVELOPER'S		-	LOCAL ROAD TO REMOVE	. BASED ON THI THE ROAD IMPRO

AGREEMENT FOR THIS FINAL PLAN, F-05-67.

# DWAYS, STORM DRAINS AND 'ORMWATER MANAGEMENT 1 THRU 5, 7 THRU 10 & 5th ELECTION DISTRICT WARD COUNTY, MARYLAND







rofessional Certification. Thereby 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. 21443 Expiration Date: 12-21-12 AS-BUILT CERTIFICATION I hereby certify, by my seal, that the facilities shown on this constructed as shown on this AS-BUILT plan. Date 5-30-12 Donald Mason, P.E. No. 21443 BY THE DEVELOPER : I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT. 4/15/08 DATE DEVELOPER BY THE ENGINEER I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. TRO 4/16/00 ROAD ENGINEER DATE THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL RO CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SOIL EROSION AND SEDIMENT CONTROL. RAA NATURAL RESOURCES CONSERVATION SERVICE DATE THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT. DISTURBANCE APPROVED : HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS. Willin Z. Walad 5-9-08 CHIEF, BUREAU OF HIGHWAYS DATE APPROVED : HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING. <u>S/15/08</u> DATE <u>KIANTAR</u> ISION OF LAND BB DÉVELOPMENT 51308 CHIEF, DEVELOPMENT ENGINEERING DIVISION REMOVE TROTTER ROAD IMPROVEMENTS, ADD OFFSITE DISTURBANCE 1/1/09 DATE NO. REVISION OWNER/DEVELOPER TROTTER CROSSING, LLC ATTN: BRIAN BOY 9695 NORFOLK AVENUE LAUREL, MD 20723 (410) 792-2565 N 563,750 / S TROTTER CROSSING LOTS 1 THRU 5, 7 THRU 10 & PROJECT OPEN SPACE LOTS 6, 11, 12, AND 13 A RESUBDIVISION OF FOREST HILL LOT 32 AREA TAX MAP 35 GRID 2 PARCEL 6 ZONING R-20 5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND GRADING, SEDIMENT CONTROL PLAN AND DRAINAGE AREA MAP Patton Harris Rust & Associates,pc Engineers. Surveyors. Planners. Landscape Architects. 8818 Centre Park Drive Columbia, MD 21045 **T** 410.997.8900 **F** 410.997.9282 4/15/08 DATE SEAL 7-17-09 DESIGNED BY : ACR NF MAG DRAWN BY: MAD/ACR PROJECT NO:11885/1-0/ENGR/PLANS DATE : MARCH 10, 2008 BY: Show CERTIFICATION I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR A PPROVED BY M SCALE :  $1^{"} = 50'$  $\sim$ AND THAT I AM & DULY LICENSED PROFESSIONAL DRAWING NO. 3 OF 14 ÓMENICK W. COLANGELO #27200 NO 33954 EXPIRATION DATE: 01-24-11." F-05-067 AS-BUILT

# MD-378 STANDARDS AND SPECIFICATIONS

#### SPECIFICATIONS

EARTH FILL

These specifications are appropriate to all ponds within the scope of the Standard for practice ND-378. All references to ASTM and AASHTO specifications apply to the most recent version. SITE PREPARATION

Areas designated for borrow areas, embankment, and structural works shall be cleared, grubbed and stripped of topsoll. All trees, vegetation, roots and other objectionable material shall be removed. Channel banks and sharp breaks shall be sloped to no steeper than 1:1. All trees shall be cleared and grubbed within 15 feet of the toe of the embankment.

Areas to be covered by the reservoir will be cleared of all trees, brush, logs fences, rubbish and other objectionable material unless otherwise designated on the plans. Trees, brush and stumps shall be cut approximately level with the ground surface. For dry stormwater management ponds, a minimum of a 25 foot radius around the inlet structure shall be cleared.

All cleared and grubbed material shall be disposed of outside and below the limits of the dam and reservoir as directed by the owner or his representative When specified, a sufficient quantity of topsoil will be stockpiled in a suitable location for use on the embankment and other designated areas.

Material - The fill material shall be taken from approved designated borrow areas. It shall be free of roots, stumps, wood, rubblsh, stones greater than 6°, frozen or other objectionable materials. Fill material for the center of the embankment, and cut off trench shall conform to Unified Soll Classification 6C, SC, CH, or CL and must have at least 30% passing the #200 sleve. Consideration may be given to the use of other materials in the embankment if designed by a geotechnical engineer. Such special designs must have construction supervised by à geotechnical engineer.

Placement - Areas on which fill is to be placed shall be scarified prior to placement of fill. Fill materials shall be placed in maximum 8-inch thick (before compaction) layers which are to be continuous over the entire length of the fill. The most permeable borrow material shall be placed in the downstream portions of the embankment. The principal spillway must be installed concurrently with fill placement and not excavated into the embankment

Compaction - The movement of the hauling and spreading equipment over the fill shall be controlled so that the entire surface of each lift shall be traversed by not less than one tread track of the equipment or compaction shall be achieved by a minimum of four complete passes of a sheepsfoot, rubber tire or vibratory roller. Fill material shall contain sufficient moisture such that the required degree of compaction will be obtained with the equipment used. The fill material shall contain sufficient moisture so that if formed into a ball it will not crumble yet not be so wet that water can be squeezed out.

When required by the reviewing agency the mimimum required density shall not be ess than 95% of maximum dry density with a moisture content within +/-2% of the optimum. Each layer of fill shall be compacted as necessary to obtain that density, and is to be certified by the Engineer at the time of construction. All compaction is to be determined by AASHTO Method T-99 (Standard Proctor).

Cutoff Trench - The cutoff trench shall be excavated into impervious material along or parallel to the centerline of the embankment as shown on the plans. The bottom width of the trench shall be governed by the equipment used for excavation, with the minimum width being four feet. The depth shall be at least four feet below existing grade or as shown on the plans. The side slopes of the trench shall be I to I or flatter. The backfill shall compacted with construction equipment, rollers, or hand tampers to assure maximum density and maximum permeability.

Embankment Core - The core shall be parallel to the centerline of the embankment as shown on the plans. The top width of the core shall be a minimum of four feet. The height shall extend up to at least the 10 year mater elevation or as shown on the plans. The side slopes shall be 1 to 1 or flatter. The core shall be compacted with construction equipment, rollers, or hand tampers to assure maximum density and minimum permeability. In addition, the core shall be placed concurrently with the outer shell of the embankment.

## STRUCTURE BACKFILL

Backfill adjacent to pipes or structures shall be of the type and quality conforming to that specified for the adjoining fill material. The fill shall be placed in horizontal layers not to exceed four inches in thickness and compacted by hand tampers or other manually directed compaction equipment. The material néeds to fill completely all spaces under and adjacent to the pipe. At no time during the backfilling operation shall driven equipment be allowed to operate closer than four feet, measured horizontally, to any part of a structure. Under no circumstances shall equipment be driven over any part of a concrete structure or pipe, unless there is a compacted fill of 24" or greater over the structure

Structure backfill may be flowable fill meeting the requirements of Maryland Department of Transportation, State Highway Administration Standard Specifications for construction and Materials, Section 313 as modified. The mixture shall have

a 100-200 ps1; 28 day unconfined compressive strength. The flowable fill shall have a minimum pH of 4.0 and a minimum resistivity of 2000 ohm-cm. Material shall be placed such that a minimum of 6" (measured perpendicular to the pipe) of flowable fill shall be under (bedding), over and, on the sides of the pipe. It only needs to extend up to the spring line for rigid conduits. Average slump of the fill shall be 7 to assure flowability of the material. Adequate measures shall be taken (sand bags, etc.) to prevent floating the pipe. When using flowable fill, all metal pipe shall be blum hous coated. Any adjoints soll fill shall be placed in horizontal layers not to exceed four inched in thickness and compacted by hand tampers or other directed compaction equipment. The material shall completely adjacent to the flowable fill zone. At no time during the backfilling operation shall driven equipment be allowed to operate closer than four feet, measured horizontally, to any part of a structure. Under no circumstances shall equipment be driven over any part of a structure or pipe unless there is a compacted fill of 24° or greater over the structure or pipe. Backfill material outside the structural backfill (flowable fill) zone shall be of the type and quality conforming to that specified for the core of the embankment or other embankment materials.

### PIPE CONDUITS

All pipes shall be circular in cross section.

Corrugated Metal Pipe - All of the following criteria shall apply for corrugated metal pipe:

Materials - (Polymer Coated steel pipe) - Steel pipes with polymeric coatings shall have a minimum coating thickness of 0.01 inch (10mil) on both sides of the pipe. This pipe and its appurtenances shall conform to the requirements of AASHTO Specifications M-245 & M-246 with watertight coupling bands or flanges.

Materiais - (Aluminum Coated Steel Pipe) - This pipe and its appurtenances shall conform to the requirements of AASHTO Specifications M-274 with watertight coupling bands or flanges. Aluminum Coated Steel Pipe, when used with flowable fill or when soll and/or water conditions warrant the need for increased durability. shall be fully bituminous coated per requirements of AASHTO Specification M-190 Type A. Any aluminum coating damaged or otherwise removed shall be replaced with cold applied bituminous coating compound. Aluminum surfaces that are to be in contact with concrete shall be painted with one coat of zinc chromate primer or two coats of asphalt.

Materials - (Aluminum Pipe) - This pipe and its appurtenances shall conform to to the requirements of AASHTO Specifications M-196 or M-211 with watertight coupling bands or flanges. Aluminum Pipe, when used with flowable fill or when soil and/or water conditions warrant the need for increased durability, shall be fully bituminous coated per requirements of AASHTO Specification M-190 Type A. Aluminum surfaces that are to be in contact with concrete shall be painted with one coat of zinc chromate primer or two coats of asphalt. Hot dip galvanized bolts mat be used for connections. the pH of the surrounding soils shall be between 4 and 9.

- Coupling bands, anti-seep collars, end sections, etc., must be composed of the same material and coted as the pipe. Metals must be insulated from dissimilar materials with use of rubber or plastic insulating materials at at least 24 mils in thickness.
- Connections All connections with pipes must be completely watertight. The drain pipe or barrel connection to the riser shall be welded all around when the pipe and riser are metal. Anti-seep collars shall be connected to the pipe in such a manner as to be completely matertight. Dimple bands are not considered to be matertlaht.

All connections shall use a rubber or neoprene gasket when joining pipe sections. The end of each pipe shall be re-rolled an adequate number of corrugations to accommodate the band width. The following type connections are acceptable for pipes less than 24" in diameter; flanges on both ends of the pipe with a circular 3/8 inch closed cell neoprene gasket, prepunched to the flange boit circle, sandwiched between adjacent flanges; a 12 inch wide standard lap type band with 12 inch wide by 3/8 Inch thick closed cell circular neoprene gasket; and a 12 inch wide hugger type band with o-ring gaskets having a minimum diameter of 1/2 inch greater than the corrugation depth. Pipes 24 inches in diameter and larger shall be connected by a 24 inch long annular corrugated band using a minimum of 4 (four) rods and luge 2 on each connecting pipe ends. A 24 Inch wide by 3/8 Inch thick closed cell circular neoprene gasket will be installed with 12 Inch on the end of each pipe. Flanged joints with 3/8 inch closed cell gaskets the full width of the flanae is also acceptable.

Helically corrugated pipe shall have either continuously welded seams or have lock seams with internal caulking or a neoprene bead.

- Bedding The pipe shall be firmly and uniformly bedded throughout its entire length. Where rock or soft, spongy or other unstable soil is encountered, all such material shall be removed and replaced with suitable earth compacted to provide adequate support.
- Backfilling shall conform to "Structure Backfill." 6. Other details (anti-seep collars, valves, etc.) shall be as shown on the drawinas.

Reinforced Concrete Pipe - All of the following criteria shall apply for reinforced concrete pipe:

- Materiais Reinforced concrete pipe shall have bell and spigot joints with rubber gaskets and shall equal or exceed ASTM Designation C-361.
- Bedding All reinforced concrete pipe conduits shall be laid in a concrete bedding/cradle for their entire length. This bedding/cradle shall consist of high slump concrete placed under the pipe and up the side of the pipe at least 50% of its outside diameter with a minimum thickness of 6 inches. Where a concrete cradle is not needed for structural reasons, flowable fill may be used as described in the "Structure Backfill" section of this stanard. Gravel bedding is not permitted

- Laying pipe Bell and spigot pipe shall be placed with the bell end upstream. Joints shall be made in accordance with recommendations of the nanufacturer of the material. After the joints are sealed for the entire line, the bedding shall be placed so that all spaces under the pipe are filled. Care shall be exercised to prevent any deviation from the origina line and grade of the pipe. The first joint must be located within 4 feet
- 4. Backfilling shall conform to "Structure Backfill."
- 5. Other details (anti-seep collars, valves, etc.) shall be as shown on the dranings
- Plastic Pipe The following criteria shall apply for pipe:
- 1. Materials PVC pipe shall be PVC-1120 or PVC-1220 conforming to ASTM D-1705 or ASTM D-2241. Corrugated High Density Polyethylene (HDPE) pipe, couplings and fittings shall conform to the following: 4 - 10 inch pipe shall meet the requirements of AASHTO M252 Type S, and 12° through 24° shall meet the requirements of AASHTO M294 Type S.
- 2. Joints and connections to anti-seep collars shall be completely watertight. 3. Bedding - The pipe shall be firmly and uniformly bedded throughout its entire length. Where rock or soft, spongy or other unstable soil is encountered, all such material shall be removed and replaced with suitable
- earth compacted to provide adequate support.
- 4. Backfilling shall conform to Structure "Backfill".
- 5. Other details (anti-seep collars, valves, etc.) shall be as shown on the drawings.

# CONCRETE

Concrete shall meet the requirements of Maryland Department of Transportation, State Highway Administration Standard Specifications for Construction and Materials, Section 414, Mix No. 3.

### ROCK RIPRAP

Rock riprap shall meet the requirements of Maryland Department of Transportation, State Highway Administration Standard Specifications for Construction and Materials. Section 311

Geotextile shall be placed under all riprop and shall meet the requirements of Maryland Department of Transportation, State Highway Administration Standard Specifications for Construction and Materials, Section 921.09, Class C.

CARE OF WATER DURING CONSTRUCTION

All work on permanent structures shall be carried out in areas free from water. The Contractor shall construct and maintain all temporary dikes, levees, cofferdams, drainage channels, and stream diversions necessary to protect the areas to be occupied by the permanent works. The contractor shall also furnish, instail, operate, and maintain all necessary pumping and other equipment required for removal of water from the various parts of the work and for maintaining the excavations, foundation, and other parts of the work free from water as required or directed by the engineer for constructing each part of the work. After having served their purpose, all temporary protective works shall be removed or leveled and graded to the extent required to prevent obstruction In any degree whatsoever of the flow of water to the spillway or outlet works and so as not to Interfere In any way with the operation or maintenance of the structure. Stream diversions shall be maintained until the full flow can be passed through the permanent works. The removal of water from the required excavation and the foundation shall be accomplished in a manner and to the extent that will maintain stability of the excavated slopes and bottom of required excavations and will allow satisfactory performance of all construction operations. During the placing and compacting of material in required excavations, the mater level at the locations being refilled shall be maintained below the bottom of the excavation at such locations which may require draining the water to sumps from which the water shall be pumped.

## STABILIZATION

All borrow areas shall be graded to provide proper drainage and left in a sightly condition. All exposed surfaces of the embankment, spillway, spoll and borrow areas, and berms shall be stabilized by seeding, liming, fertilizing and mulching in accordance with the Natural Resources Conservation Service Standards and Specifications for critical Area Planting (MD-342) or as shown on the accompanying drawings.

#### EROSION AND SEDIMENT CONTROL

construction operations will be carried out in such a manner that erosion will be controlled and mater and air pollution minimized. State and local laws concerning pollution abatement will be followed. Construction plans shall detail erosion and sediment control measures.

Refer to the 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for rate and methods not covered.

TEMPORARY SEEDING NOTES

Seedbed Preparation : Loosen upper three inches of soil by raking. discing or other acceptable means before seeding, if not previously

<u>Soll Amendments : Apply 600 lbs. per acre 10-10-10 fert[lizer (14</u> lbs. per 1000 sq.ft.).

Seeding , For periods March 1 thru April 30 and from August 15 thru November 15, seed with 2-1/2 bushels per acre of annual rye (3.2 lbs per 1000 sq.ft.). For the period May 1 thru August 14, seed with 3 lbs. per acre of neeping lovegrass (0.07 lbs. per 1000 sq.ft.). For the period November 16 thru February 28, protect site by applying 2 ons per acre of well anchored straw mulch and seed as soon as possible in the spring, or use sod.

<u>Huiching : Apply 1-1/2 to 2 tons per acre (70 to 90 lbs. per 1000</u> sq.ft.) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 210 gal. per acre (5 gal. per 1000 sq.ft.) of emulsified asphalt on fiat areas. On slopes, 8 ft. or higher, use 347 gal. per acre (8 gal. per 1000 sq.ft.) for anchoring.

Refer to the 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for rate and methods not covered.

# PERMANENT SEEDING NOTES

Apply to graded or cleared areas not subject to immediate further disturbance where a permanent long-lived vegetative cover is needed. Seedbed Preparation : Loosen upper three inches of soli by raking. discing or other acceptable means before seeding, if not previously loosened.

- Soil Amendments . In lieu of soil test recommendations, use one of the following schedules . Preferred - Apply 2 tons per acre dolomitic limestone (42 lbs. per 1000 sq.ft.) and 600 lbs. per acre 10-10-10 fertilizer (14 lbs. per 1000 sq.ft.) before seeding. Harrow or disc into upper three inches of soil. At time of seeding, apply 400 lbs. per acre 30-0-0 ureaform fertilizer (9 lbs. per 1000 sq.ft.).

upper three inches of soil. Seeding : For the period March 1 thru April 30 and from August 1 thru October 15, seed with 60 lbs. per acre (1.4 lbs. per 1000 sq.ft.) of Kentucky 31 Tall Fescue. For the period May 1 thru July 31, seed with 60 lbs. Kentucky 31 Tall Fescue per acre and 2 lbs. per acre (0.05 lbs. per 1000 sq.ft.) of weeping lovegrass. During the period October 16 thru February 28, protect site by one of the following

- options 1) 2 tons per acre of well-anchored mulch straw and seed as soon as possible in the spring. Use sod.
- 3) Seed with 60 lbs. per acre Kentucky 31 Tall Fescue and mulch with 2 tons per acre well anchored straw.

replacements and reseedings

<u>Mulching : Apply 1-1/2 to 2 tons per acre (70 to 90 lbs. per 1000</u> sq.ft.) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gal. per acre (5 gal. per 1000 sq.ft.) of emulsified asphalt on flat areas. On slopes, 8 ft. or higher, use 347 gal. per acre (8 gal. per 1000 sq.ft.) for anchoring. <u>iaintenance : Inspect all seeded areas and make needed repairs.</u>

# OPERATION, MAINTENANCE AND INSPECTION

INSPECTION OF THE POND SHOWN HEREON SHALL BE PERFORMED AT LEAST ONCE ANNUALLY, IN ACCORDANCE WITH THE CHECKLIST AND REQUIREMENTS CONTAINED WITHIN USDA, SCS "STANDARDS AND SPECIFICATION FOR PONDS" (MD378), THE POND OWNER AND ANY HEIRS, SUCCESSORS, OR ASSIGNS SHALL BE RESPONSIBLE FOR THE SAFETY OF THE POND AND THE CONTINUED OPERATION, SURVEILLANCE, INSPECTION, AND MAINTENANCE THEREOF. THE POND OWNER SHALL PROMPTLY NOTIFY THE SOIL CONSERVATION DISTRICT OF ANY UNUSUAL OBSERVATIONS THAT MAY BE INDICATIONS OF DISTRESS SUCH AS EXCESSIVE SEEPAGE, TURBID SEEPAGE, SLIDING OR SLUMPING.

> 21.0 STANDARD AND SPECIFICATIONS <u>FOR TOPSOII</u>

## <u>Definition</u>

Placement of topsoil over a prepared subsoil prior to establishment of permanent vegetation. Purpose

To provide a suitable soll medium for vegetative growth. Solls of concern have low moisture content, low nutrient levels, low pH, materials toxic to plants, and/or unacceptable soil gradation.

## Conditions Where Practice Applies

I. This practice 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 vegetalive growth. b. The soll material is so shallow that the rooting zone is not deep enough to support plants or furnish continuing supplies of moisture and plant nutrients.

c. The original soil to be vegetated contains material toxic to plant growth. d. The soll is so acidic that treatment with limestone is not feasible.

II. For the purpose of these Standards and Specifications, areas having slopes steeper than 2:1 require special consideration and design for adequate stabilization. Areas having slopes steeper than 2.1 shall have the appropriate stabilization shown on the plans.

Construction and Material Specifications I. Topsoll salvaged from the existing site may be used provided that it meets the standards as set forth in these specifications. Typically, the depth of topsoil to be salvaged for a given soll type can be found in the representative soil profile section in the Soil Survey published by USDA-SCS in

II. Topsoil Specifications - Soil to be used as topsoil must meet the following:

cooperation with Maryland Agricultural Experimentation Station.

I. Topsoil shall be a loam, sandy loam, clay loam, silt loam, sandy clay loam, loamy sand. Other soils may be used if recommended by an agronomist or soil scientist and approved by the appropriate approval authority. Regardiess, topsoil shall not be a mixture of contrasting textured subscills and shall contain less than 5% by volume of cinders, stones, slag, coarse fragments, gravel, sticks, roots, trash, or other materials larger than 1½" in diameter.

11. Topsoll must be free of plants or plant parts such as bermuda grass, quackgrass, Johnsongrass, nutsedge, poison ivy, thistle, or others as specified.

111. Where subsoil is either highly acidic or composed of heavy clays, ground limestone shall be spread at the rate of 4-8 tons/acre (200-400 pounds per 1,000 square feet) prior to the placement of topsoil. Line shall be distributed uniformly over designated areas and worked into the soil in conjunction with tillage operations as described in the following procedures.

II. For sites having disturbed areas under 5 acres: I. Place topsoil (If required) and apply soll amendments as specified in <u>20.0 Vegetative</u> <u>Stabilization</u> - Section I - Vegetative Stabilization Methods and Materials.

III. For sites having disturbed areas over 5 acres:

i. On soil meeting Topsoil specifications, obtain test results dictating fertilizer and lime amendments required to bring the soil into compliance with the following: a. pH for topsoil shall be between 6.0 and 7.5. If the tested soil demonstrates a pH of less

- than 6.0, sufficient lime shall be prescribed to raise the pH to 6.5 or higher. b. Organic content of topsoil shall be not less than 1.5 percent by weight.
- Topsoil having soluble salt content greater than 500 parts per million shall not be used. d. No sod or seed shall 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.

Note: Topsoil substitutes to amendments, as recommended by a gualified agronomist or soil scientist and approved by the appropriate approval authority may be used in lieu of natural topsoil

11. Place topsoil (if required) and apply soil amendments as specified in 20.0. Vegetative Stabilization - Section I - Vegetative Stabilization Methods and Materials.

V. Topsoil Application

i. When topsoiling, maintain needed erosion and sediment control practices such as diversions, Grade Stabilization Structures, Earth Dikes, Slope Silt Fence and Sediment Traps and Basins.

11. Grades on the areas to be topsoiled, which have been previously established, shall be maintained, albeit 4" - 8" higher in elevation.

111. Topsoil shall be uniformly distributed in a 4" - 8" layer and lightly compacted to a minimum thickness of 4 . Spreading shall 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 topsolling or other operations shall be corrected in order to prevent the formation of depressions or water pockets.

iv. Topsoil shall not be placed while 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.

VI. Alternative for Permanent Seeding - instead of applying the full amounts of lime and commercial fertilizer, composted sludge and amendments may be applied as specified below:

i. Composted Sludge Material for use as a soil conditioner for sites having disturbed creas over 5 acres shall be tested to prescribe amendments and for site having disturbed areas under 5 acres shall conform to the following requirements:

- a. Composted sludge shall be supplied by, or originate from, a person or persons that are permitted (at the time of acquisition of the compost) by the Maryland Department of the
- Environment under COMAR 26.04.06. b. Composted sludge shall contain at least 1 percent nitrogen, 1.5 percent phosphorus, and 0.2
- percent potassium and have a pH of 7.0 to 8.0. If compost does not meet these requirements, the appropriate constituents must be added to meet the requirements prior to use. Composited sludge shall be applied at a rate of 1 ton/1,000 square feet.

d. Composted sludge shall be amended with a potassium fertilizer applied at the rate of 4 lb/1,000 square feet, and 1/3 the normal line application rate. References: Guideline Specifications, Soil Preparation and Sodding. MD-VA, Pub. #1, Cooperative

> OPERATION AND MAINTENANCE SCHEDULE OF PRIVATELY OWNED AND MAINTAINED STORMWATER MANAGEMENT FACILITY EXTENDED DETENTION POND

Extension Service, University of Maryland and Virginia Polytechnic Institutes. Revised 1973.

ROUTINE MAINTENANCE 1. FACILITY SHALL BE INSPECTED ANUALLY AND AFTER MAJOR STORMS. INSPECTIONS SHOULD BE PERFORMED DURING WET WEATHER TO DETERMINE IF THE POND IS FUNCTIONING PROPERLY.

2. TOP AND SIDE SLOPES OF THE EMBANKMENT SHALL BE MOWED A MINIMUM OF TWO (2) TIMES A YEAR, ONCE IN JUNE AND ONCE IN SEPTEMBER. OTHER SIDE SLOPES, THE BOTTOM OF THE POND, AND MAINTENANCE ACCESS SHOULD BE MOWED AS NEEDED.

3. DEBRIS AND LITTER NEXT TO THE OUTLET STRUCTURE SHALL BE REMOVED DURING REGULAR MOWING OPERATIONS AND AS NEEDED.

4. VISIBLE SIGNS OF EROSION IN THE POND AS WELL AS RIPRAP OUTLET AREA. SHALL BE REPAIRED AS SOON AS IT IS NOTICED.

NON-ROUTINE MAINTENANCE 1. STRUCTURAL COMPONENTS OF THE POND SUCH AS THE DAM, THE RISER, AND THE PIPES SHALL BE REPAIRED UPON THE THE DETECTION OF ANY DAMAGE. THE COMPONENTS SHOULD BE INSPECTED DURING ROUTINE MAINTENANCE OPERATIONS. 2. SEDIMENT SHOULD BE REMOVED WHEN ITS ACCUMULATION SIGNIFICANTLY REDUCES THE DESIGN STORAGE, INTERFERE WITH THE FUNCTION OF THE RISER, WHEN DEEMED NECESSARY FOR AESTHETIC REASONS, OR WHEN DEEMED

NECESSARY BY THE HOWARD COUNTY'S DEPARTMENT OF PUBLIC WORKS.

STANDARD SEDIMENT CONTROL NOTES

- 1. A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS, SEDIMENT CONTROL DIVISION PRIOR TO THE START OF ANY CONSTRUCTION (313-1855).
- 2. ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL AND REVISIONS THERETO.
- 3. FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: A) 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER SLOPES, AND ALL SLOPES STEEPER THAN 3:1, B) 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
- 4. ALL SEDIMENT TRAPS/BASING SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND THE PERIMETER IN ACCORDANCE WITH VOL. 1. CHAPTER 7, OF THE HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE.
- 5. ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDING, SOD, TEMPORARY SEEDING, AND MULCHING (SEC. G.). TEMPORARY STABILIZATION WITH MULCH ALONE SHALL ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHED OF GRASSES.
- 6. ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- 7. SITE ANALYSIS:
- TOTAL AREA OF SITE AREA DISTURBED
- AREA TO BE ROOFED OR PAVED AREA TO BE VEGETATIVELY STABILIZED
- TOTAL CUT TOTAL FILL OFFSITE WASTE AREA LOCATION TO HAVE ACTIVE GRADING PERMIT
- \*QUANTITIES ARE FOR COUNTY FEE PURPOSES ONLY. CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF ACTUAL QUANTITIES.
- FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE
- THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- 10. ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES, APPROVAL OF THE INSPECTION AGENCY SHALL BE REQUESTED UPON COMPLETION OF INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING. OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE.
- 11. TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGTHS OR THAT WHICH SHALL BE BACK-FILLED AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER
- 12. SITE GRADING WILL BEGIN ONLY AFTER ALL PERIMETER SEDIMENT CONTROL MEASURES HAVE BEEN INSTALLED AND ARE IN A FUNCTIONING CONDITION.
- 13. SEDIMENT WILL BE REMOVED FROM TRAPS WHEN ITS DEPTH REACHES CLEAN OUT ELEVATION SHOWN ON THE PLANS.
- 14. CUT AND FILL QUANTITIES PROVIDED UNDER SITE ANALYSIS DO NOT REPRESENT BID QUANTITIES. THESE QUANTITIES DO NOT DISTINGUISH BETWEEN TOPSOIL, STRUCTURAL FILL OR EMBANKMENT MATERIAL, NOR DO THEY REFLECT CONSIDERATION OF UNDERCUTTING OR REMOVAL OF UNSUITABLE MATERIAL. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH SITE CONDITIONS WHICH MAY AFFECT THE WORK.

## SEQUENCE OF CONSTRUCTION 1. OBTAIN GRADING PERMIT.

2. INSTALL STABILIZED CONSTRUCTION ENTRANCE. (1 DAY)

3. UPON ACCEPTANCE BY THE COUNTY INSPECTOR, CONTRACTOR TO KUCI RUAD CULVERI (HW-I IU HW-2 CROSSING LANE BETWEEN TROTTER ROAD AND THE POND. PERMANENTLY STABILIZE BEFORE ANY OTHER SITE WORK. INSTALL SUPER SILT FENCE TO CLOSE OVER HEADWALLS BEFORE BEGINNING REST OF GRADING FOR THE ROAD. (2 WEEKS)

4. INSTALL SILT FENCE, REMAINING SUPER SILT FENCE, SEDIMENT TRAPS #1 & 2 AND SEDIMENT BASIN. (4 WEEKS).

5. INSTALL EARTH DIKES ONCE SEDIMENT TRAPS AND BASIN ARE FUNCTIONING. (2 WEEKS)

TO PROVIDE DUST CONTROL AS NECESSARY AND AS DIRECTED BY THE INSPECTOR. CONTRACTOR TO INSPECT, REPAIR OR REPLACE EARTH DIKES DAILY WHILE MAINTAINING POSITIVE DRAINAGE TO BASINS. 7. AS SUBGRADE ELEVATIONS ARE ESTABLISHED, INSTALL STORM DRAINS,

WATER AND SEWER. (2 WEEKS) 8. CLOSE ONE LANE OF TROTTER ROAD WITH JERSEY WALLS. REMOVE EXISTING

PAVING, ORADE THEN REPAVE. ONCE COMPLETED, REMOVE AND REPLACE

9. APPLY TOPSOIL AND STABILIZE DISTURBED AREAS IN ACCORDANCE WITH PERMANENT SEEDING NOTES. (2 WEEKS)

10. ONCE SITE IS STABILIZED CONSTRUCT BIORETENTION FACILITY AND LANDSCAPE. (1 WEEK)

11. UPON PERMISSION OF COUNTY SEDIMENT CONTROL INSPECTOR, REMOVE ALL REMAINING SEDIMENT CONTROL DEVICES AND CONVERT SEDIMENT BASIN TO PERMANENT STORMWATER MANAGEMENT FACILITY. CONVERT FACILITY IN THE FOLLOWING STEPS:

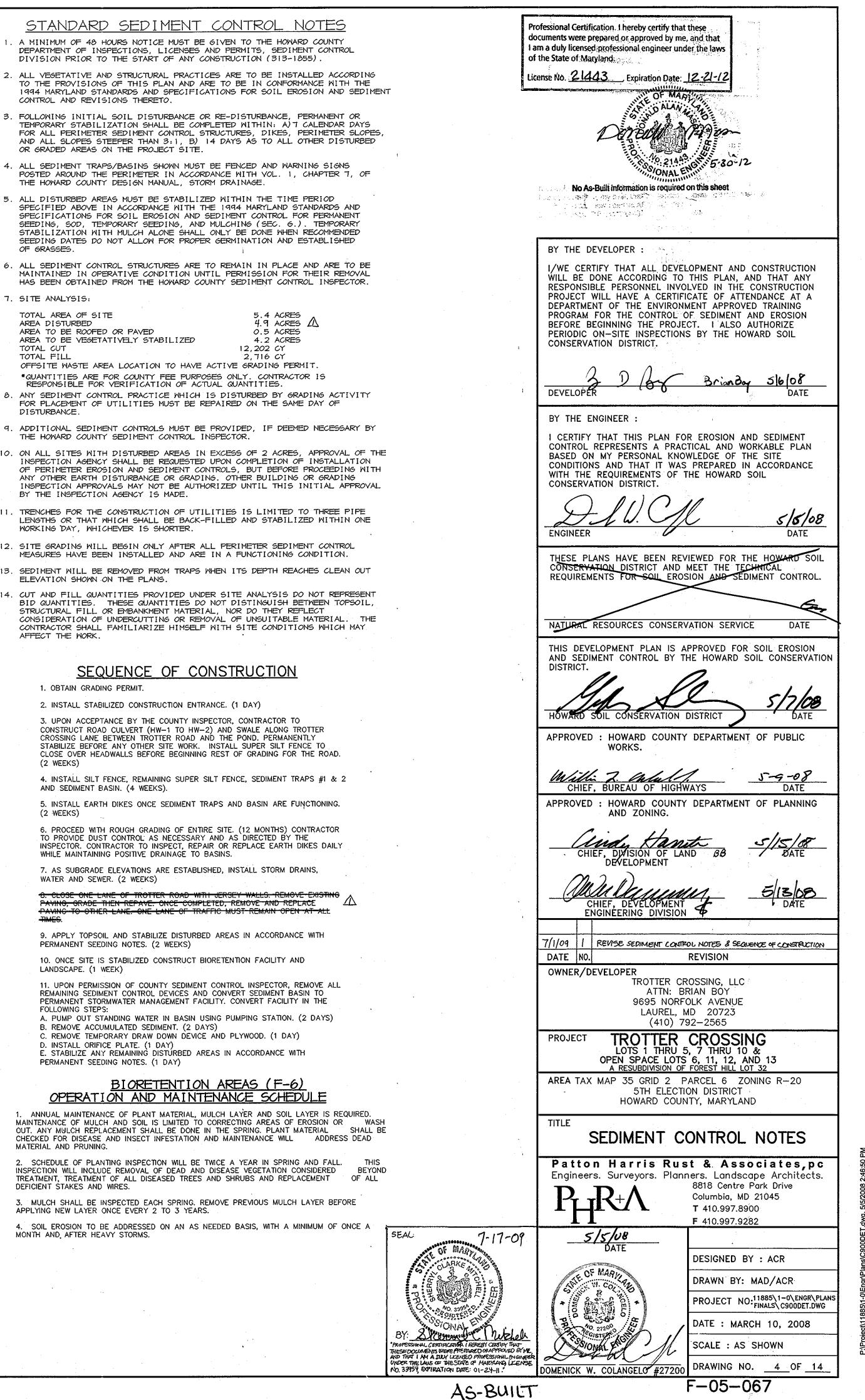
A. PUMP OUT STANDING WATER IN BASIN USING PUMPING STATION. (2 DAYS) B. REMOVE ACCUMULATED SEDIMENT. (2 DAYS) C. REMOVE TEMPORARY DRAW DOWN DEVICE AND PLYWOOD. (1 DAY) D. INSTALL ORIFICE PLATE. (1 DAY)

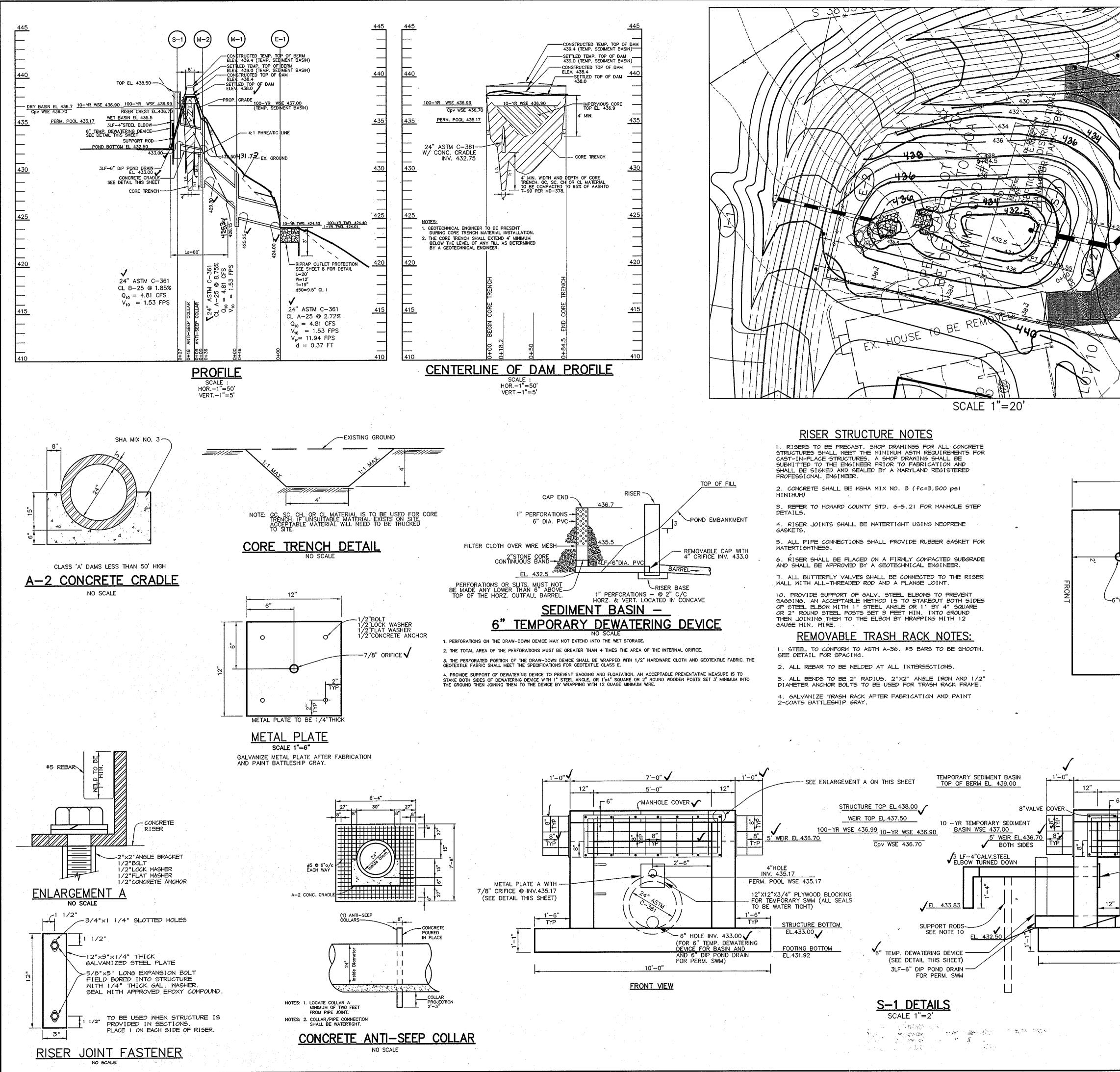
E. STABILIZE ANY REMAINING DISTURBED AREAS IN ACCORDANCE WITH PERMANENT SEEDING NOTES. (1 DAY)

1. ANNUAL MAINTENANCE OF PLANT MATERIAL, MULCH LAYER AND SOIL LAYER IS REQUIRED. MAINTENANCE OF MULCH AND SOIL IS LIMITED TO CORRECTING AREAS OF EROSION OR WASH OUT. ANY MULCH REPLACEMENT SHALL BE DONE IN THE SPRING. PLANT MATERIAL CHECKED FOR DISEASE AND INSECT INFESTATION AND MAINTENANCE WILL ADDRESS DEAD MATERIAL AND PRUNING.

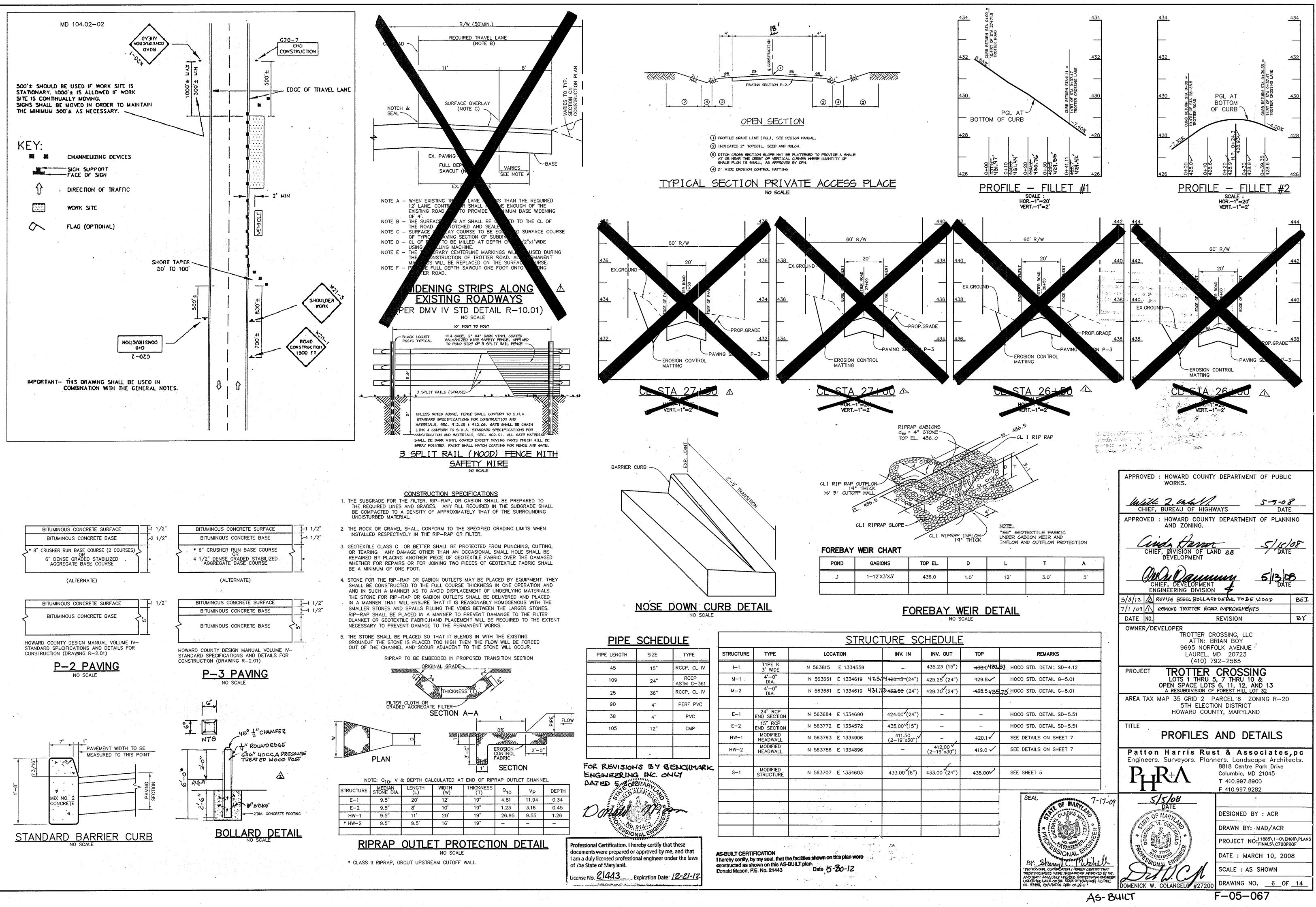
2. SCHEDULE OF PLANTING INSPECTION WILL BE TWICE A YEAR IN SPRING AND FALL. INSPECTION WILL INCLUDE REMOVAL OF DEAD AND DISEASE VEGETATION CONSIDERED TREATMENT, TREATMENT OF ALL DISEASED TREES AND SHRUBS AND REPLACEMENT DEFICIENT STAKES AND WIRES.

APPLYING NEW LAYER ONCE EVERY 2 TO 3 YEARS. 4. SOIL EROSION TO BE ADDRESSED ON AN AS NEEDED BASIS, WITH A MINIMUM OF ONCE A MON'TH AND AFTER HEAVY STORMS.

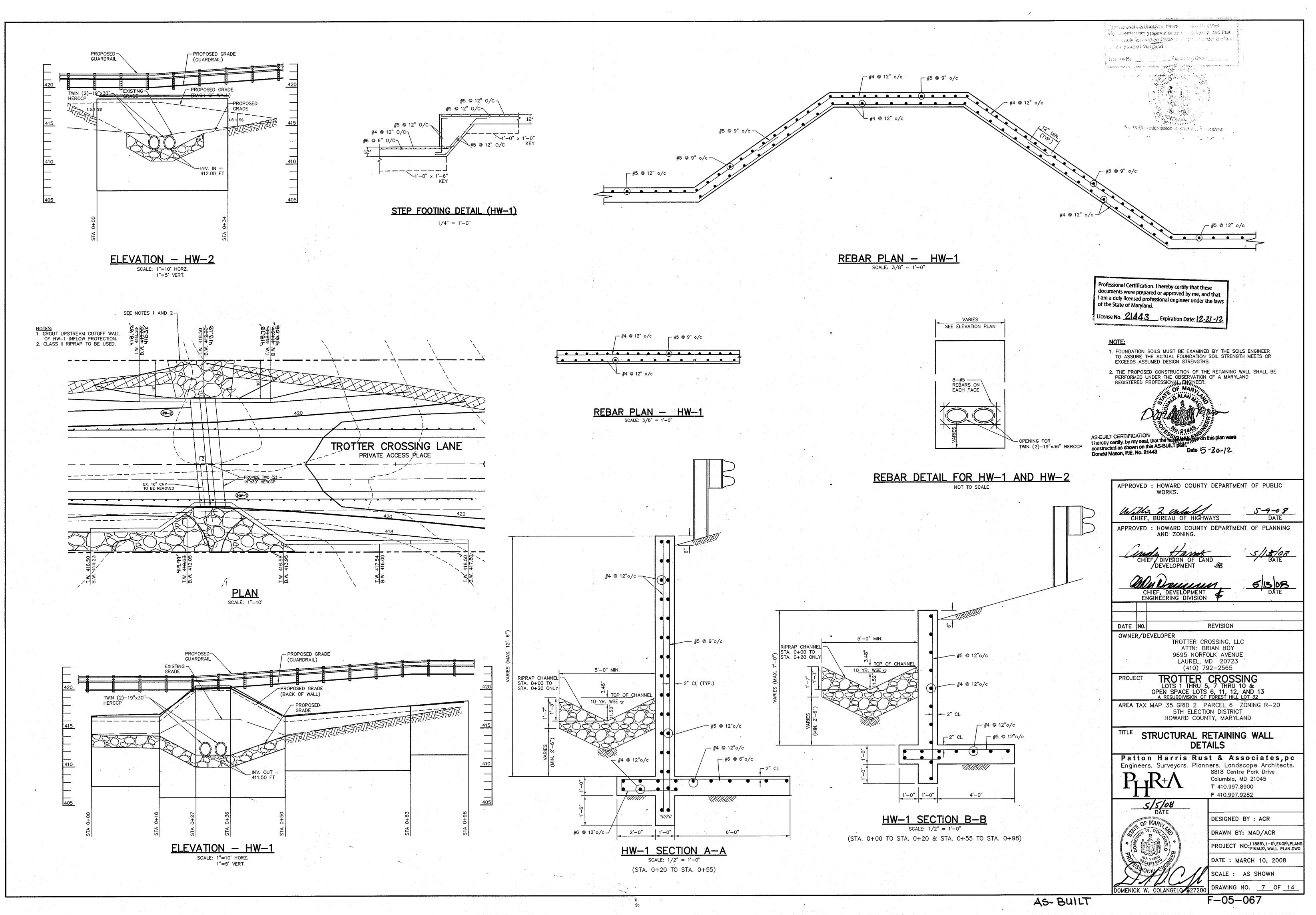


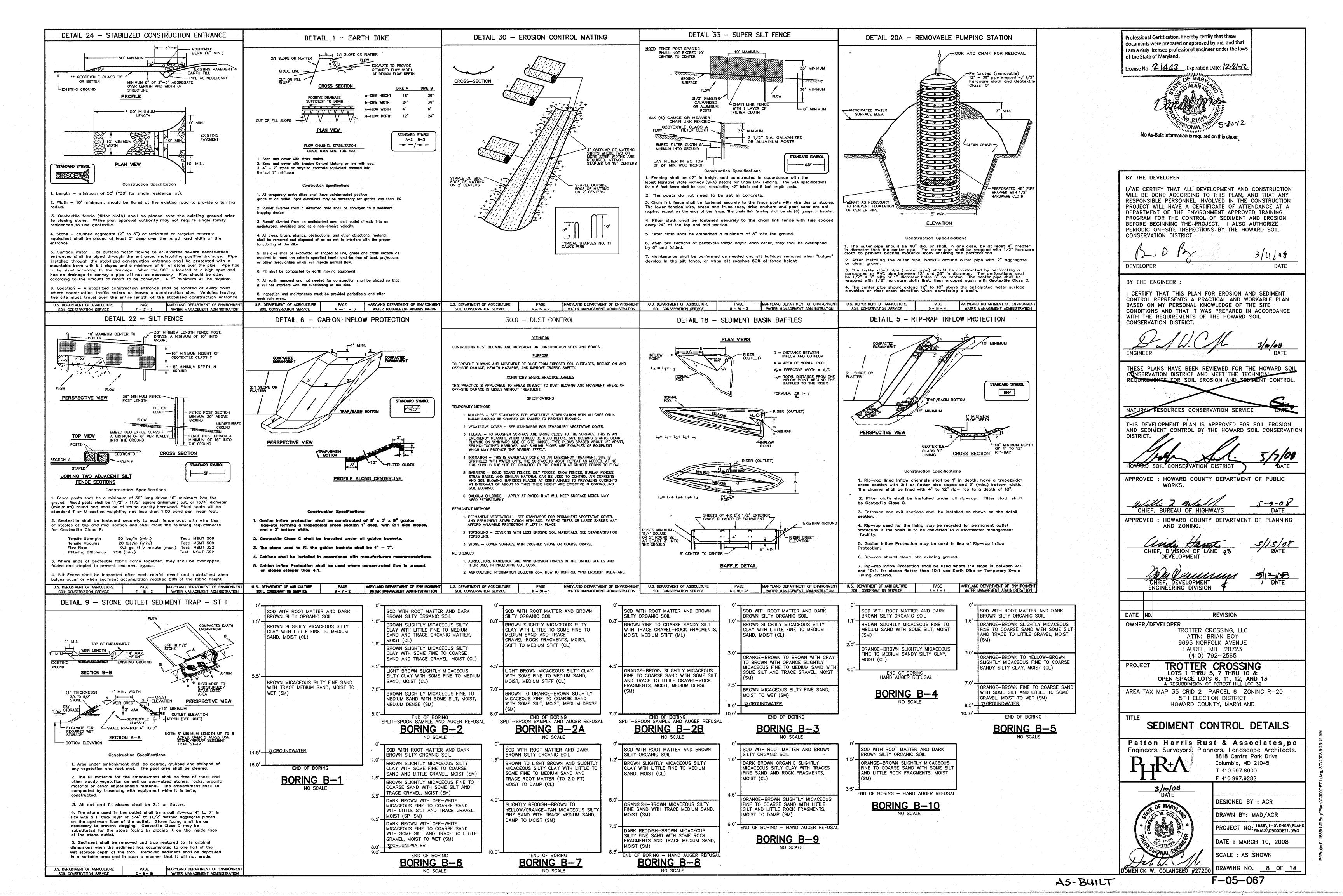


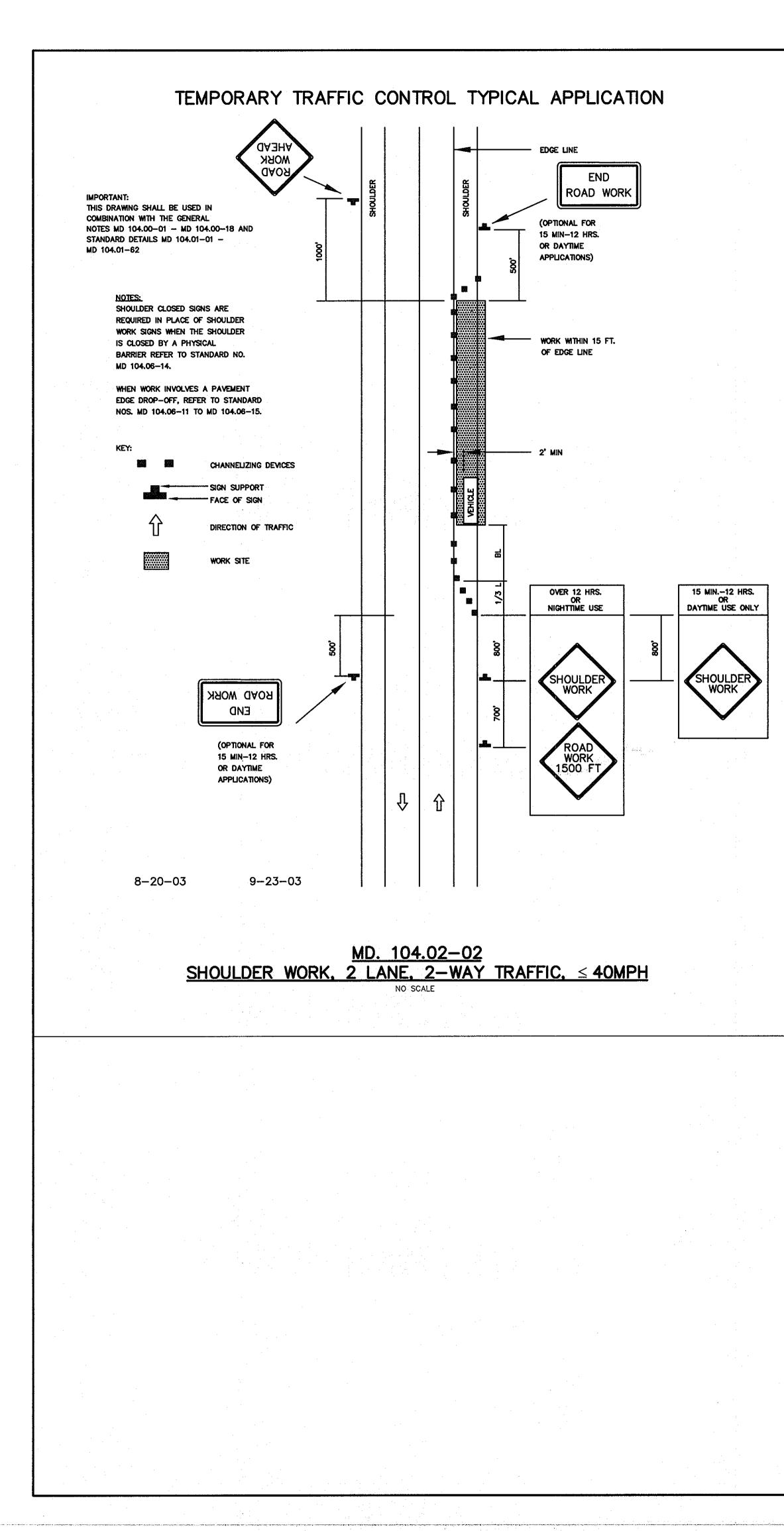
Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland. License No. 21443 Expiration Date: 12-21-12 AS-SULL CENTRICATION I hereby certify, by my seal, that the facilities shown on this plan were constructed as shown on this AS-BUILT plan. Date 5-30-/2 Donald Mason, P.E. No. 21443 BY THE DEVELOPER I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION POCKET POND PRIVATELY OWNED & BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL MAINTAINED BY H.O.A. HAZARD CLASS 'A' CONSERVATION DISTRICT. PROVIDE CLAY LINER ON BOTTOM OF POND UP TO EL. 435.0 3rian 204 5/6/08 BY THE ENGINEER  $\odot$  $\mathcal{A}$ M I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT  $(\Omega)$ CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. 5/5/08 DATE ENGINEER THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL TS EOR SOIL EROSION AND SEDIMENT CONTROL. REOURE 8'−0" 🗸 NATURAL RESOURCES CONSERVATION SERVICE 2.-6" THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT DATE SERVATION DISTR APPROVED : HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS. 5-9-08 ~6"VALVE COVER DATE CHIEF. BUREAU OF HIGHWAYS -MANHOLE COVER HO.CO.DETAIL APPROVED : HOWARD COUNTY DEPARTMENT OF PLANNING SD 3.91 AND ZONING. F, DIVISION OF LAND BB TOP VIEW 51308 DEVELOPMENT CHIEF ENGINÉERING DIVISION DATE NO. REVISION OWNER/DEVELOPER TROTTER CROSSING, LLC ATTN: BRIAN BOY 9695 NORFOLK AVENUE LAUREL, MD 20723 12" 12" 5'-0" (410) 792-2565 MANHOLE COVER TROTTER CROSSING LOTS 1 THRU 5, 7 THRU 10 & PROJECT OPEN SPACE LOTS 6, 11, 12, AND 13 A RESUBDIVISION OF FOREST HILL LOT 32 AREA TAX MAP 35 GRID 2 PARCEL 6 ZONING R-20 **5TH ELECTION DISTRICT** - PROVIDE MASTIC GROU FOR WATER TIGHT SEAL HOWARD COUNTY, MARYLAND \_\_\_\_\_ -PROP. GRADE METAL PLATE A WITH TITLE STORMWATER MANAGEMENT 7/8" ORIFICE @ INV.435.17 (SEE DETAIL THIS SHEET) PROFILES AND DETAILS ES 19 Patton Harris Rust & Associates,pc **√** ‰lo Engineers. Surveyors. Planners. Landscape Architects. -GATE VALVE 🎙 TYP 8818 Centre Park Drive EL.430.00 Columbia, MD 21045 L' \_\_ \_\_ \_ **T** 410.997.8900 **F** 410.997.9282 5/5/02 11'-0" DESIGNED BY : ACR – CONC. CRADLE SIDE VIEW OF MARI 2-4 LF OF PIPE TO BE CAST WITH RISER. -DRAWN BY: MAD/ACR PROJECT NO: 11885\1-0\ENGR\PLANS DATE : MARCH 10, 2008 SCALE : AS SHOWN DRAWING NO. 5 OF 14 OMENICK W. COLANGEL #27200 F-05-067 AS-BUILT



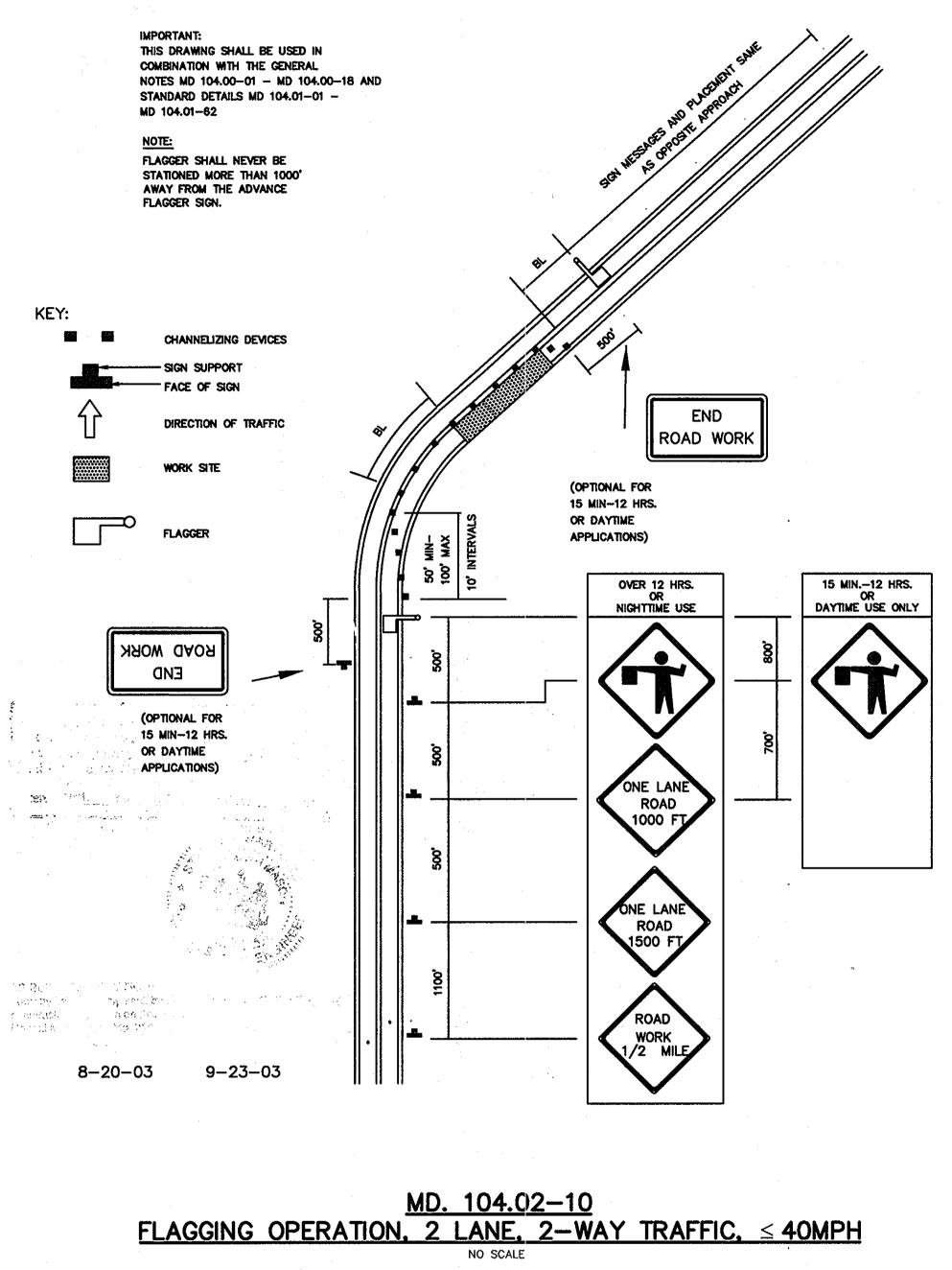
. Na se status da interimenta da anterio da a







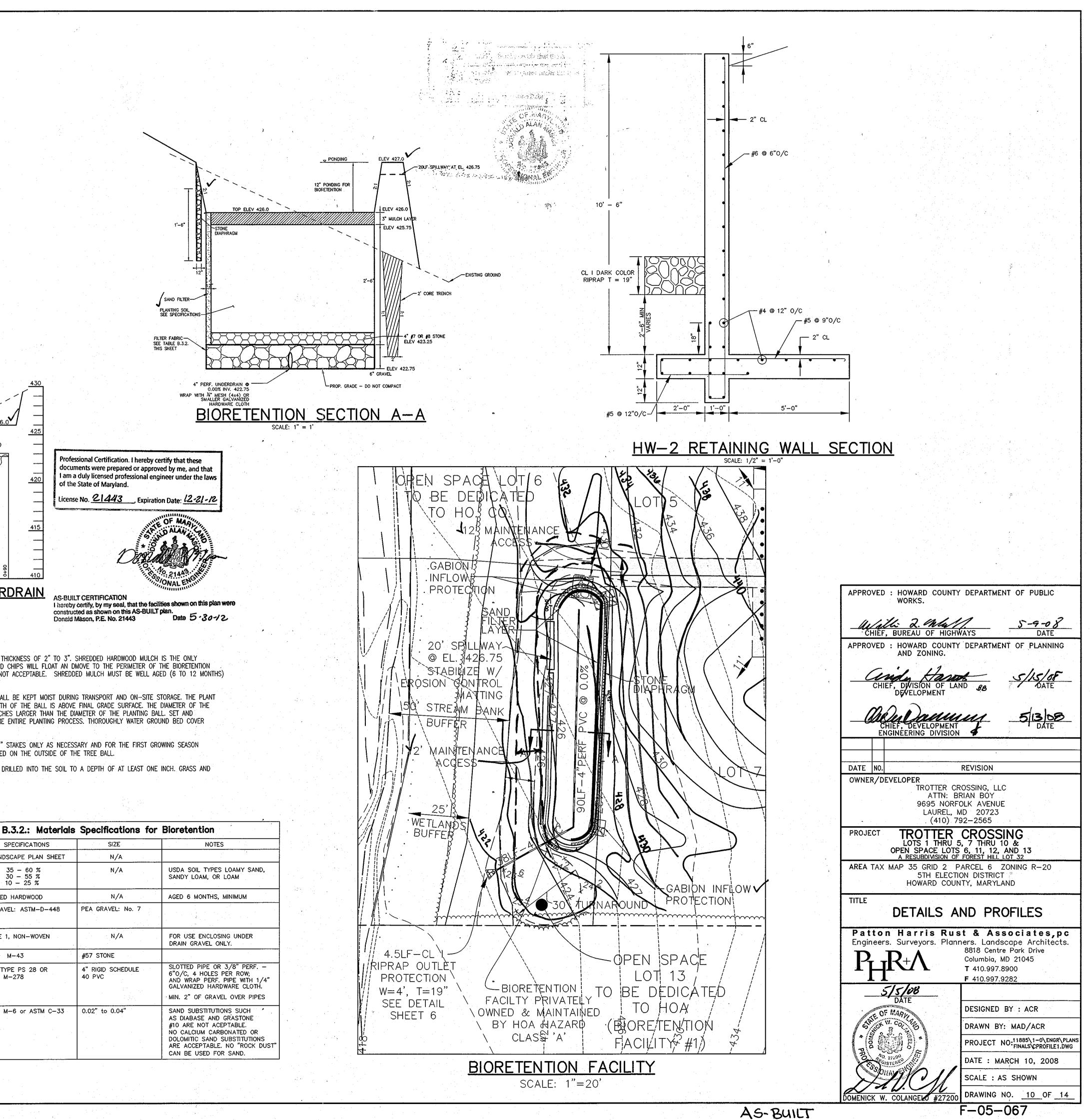
# TEMPORARY TRAFFIC CONTROL TYPICAL APPLICATION

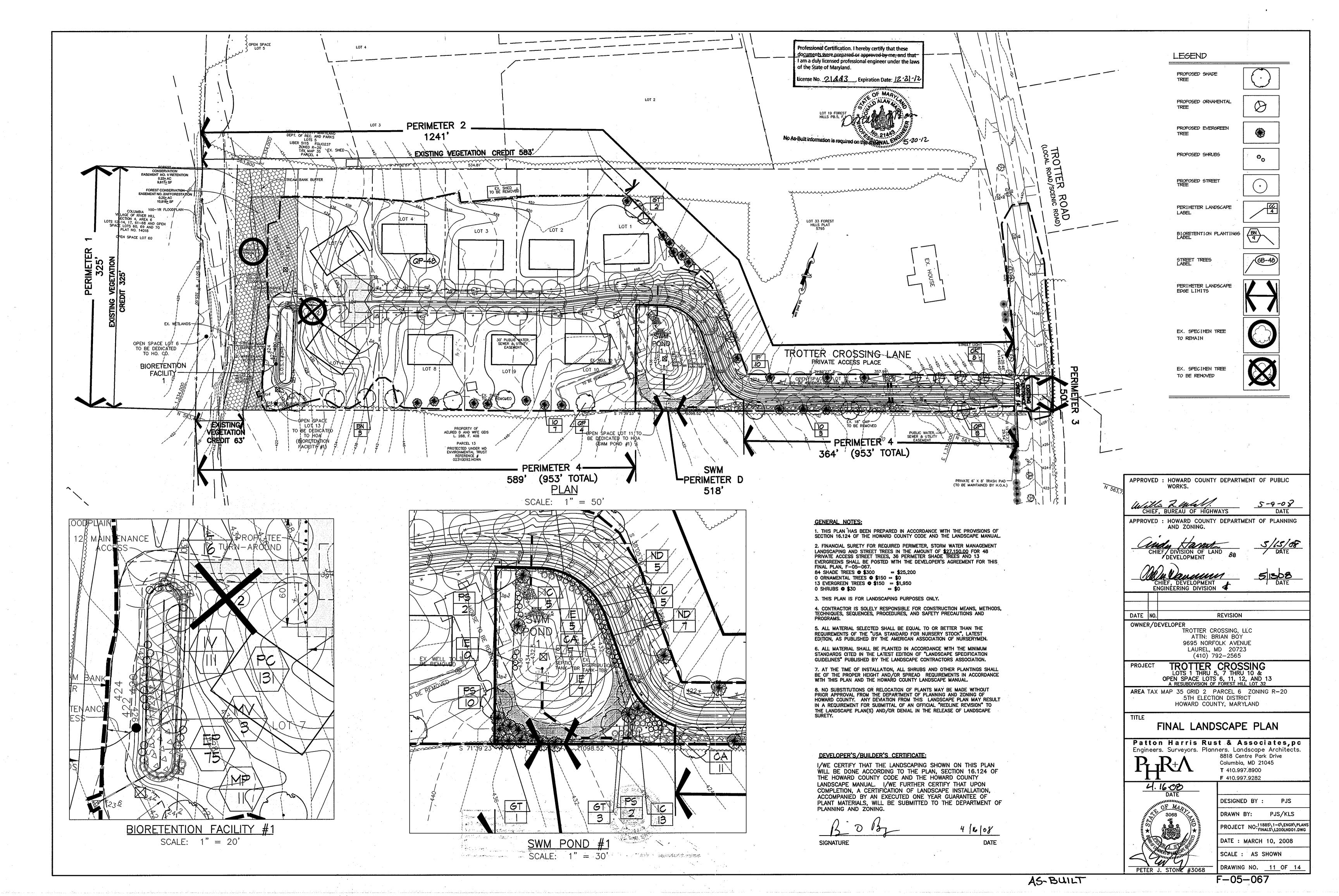


UN

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. 21443 Expiration Date: 12-31-12 No As-Built information is required on this sheet APPROVED : HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS. Mitta 2 5-9-08 nela DATE CHIEF, BUREAU OF HIGHWAYS APPROVED : HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING. NOTES 1. TROTTER ROAD IS AN EXISTING 2 LANE, 2-WAY ROAD. THE POSTED SPEED LIMIT FOR THE ROAD IS 30 MPH. HIEF, DIVISION OF LAND 2. REFER TO MDSHA STANDARDS MD 104.01-80 AND MD 104.01-81 FOR BUFFER LENGTHS AND TAPER LENGTHS. FOR GENERAL NOTES FOR CHANNELIZATION DEVICES, REFER TO MDSHA STANDARD MD 104.00-10. CHIEF, DEVELOPMENT ENGINEERING DIVISION 5/13 0 3. REFER TO MDSHA STANDARD MD 104.00-12 FOR GENERAL NOTES FOR FLAGGING OPERATION. DATE NO. REVISION OWNER/DEVELOPER TROTTER CROSSING, LLC ATTN: BRIAN BOY 9695 NORFOLK AVENUE LAUREL, MD 20723 (410) 792-2565 LOTS 1 THRU 5, 7 THRU 10 & PROJECT OPEN SPACE LOTS 6, 11, 12, AND 13 A RESUBDIVISION OF FOREST HILL LOT 32 AREA TAX MAP 35 GRID 2 PARCEL 6 ZONING R-20 5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND TITLE MOT PLAN Patton Harris Rust & Associates,pc Engineers. Surveyors. Planners. Landscape Architects. 8818 Centre Park Drive Columbia, MD 21045 **T** 410.997.8900 F 410.997.9282 3/10/08 DATE DESIGNED BY : ACR DRAWN BY: BCL PROJECT NO:11885\1-0\ENGR\PLANS FINALS\ C902DET DATE : MARCH 10, 2008 SCALE : NO SCALE UW DRAWING NO. 9 OF 14 DOMENICK W. COLANGELO #27200 F-05-067 AS-BUILT

		· · · · · ·											
	_430_	ни	V-2)(HW-1)		430				t .				
:													
			CROSSING								, t		
· ·	<u>425</u>	Æ	III IIII		425	450				-1) a		450	
			S GUARE	DSED D RAIL DSED GRADE									
	420	· · · · · · · · · · · · · · · · · · ·	P.		420	445			x FRO		EXISTING GROU	445 ND	
		8"W 416.11		XISTING GROUND					CL IROTTER				
	415		z II s		415	440				-PROPO	SED GRADE	440	
	<u></u>	<u>+L 414.49</u>		4.53 <u>⊽100-YR TW EL</u>	<u>412.67</u>				HGL10				
	GROUT L CUTOFF			)YR TW EL 412.51		435	<u>⊽10-YR WSEL</u>	<u>L 436.90</u>				435	
	410 9.5LF-CLI OUTLET PRO SEE DETAIL, SH	TECTION	411.50	- 11LF-CLI RIPRAP OUTL PROTECTION SEE DETAIL THIS SHEET	_ <u>410</u> et	<u>435</u>	8LF-CLI RIPRAP O PROTECTION SEE DETAIL THIS SHEET		1' MIN: 8"W 433.30				
			- 30° 8C	CP, CL IV @ 2.00%					433.30 5.54	,			
	405	:	Q10 == V10 ==	26.95 CFS 3.81 FPS 9.55 FPS	405	430			15" RCCP, CL IV 0 0.50% 010 = 1.23 CFS V10 = 1.00 FPS			430	
									Vp = 3.16 FPS d = 0.45 FT				
	400	······	0+25	· ·	400	425			8"S 8 426.45 5	2	- -	425	
		STORM	DRAIN SCALE :	PROFILE	• ·		<u>ST(</u>	ORM	DRAIN SCALE :	PRC	DFILE		
		an An Anna an Anna An Anna Anna Anna Ann	HOR1"=50 VERT1"=5"	Postan Marina da Cara da Cara Cara da Cara da					HOR1"=50 VERT1"=5'				
	430	20' STA	SPILLWAY © EL BILIZE WITH ERO	426.75 DSION CONTROL MA	ATTING		430	ŕ	430				
				ED GRADE	1.0 00				** 				
	425	BIORETENT	<u>ON EMBANKMENT</u>	EL. 427.0	<u>10- YR</u>	WSEL 420	425		PROPOSED	GRADE	$\sim$	BIORETENTIO	Y TOP EL. 426.
	<u>+25</u>		TITT	EXIST	NG GROUND					•	-	- C EXI	STING GROUND
									— 4.5LF-CU R		422.10	422.75	422.75
	420		UNDER EXISTI EMBANKMENT	NCH TO BE PLACE NG GRADE WHEN IS IN FILL			420		420 OUTLET PRO SEE DETAIL W=4', T=19	TECTION	•		
									·		1	- PERF	
	415	· · ·					415		415	•	✔4" PVC ◎ 1.71%		RATED PVC 0.00%
	410	0+27			1+78		410		 410		00+0	0+00	
							the second se			1.1		1	
н 1910 - Ал	CENTE	RLINE (	<u>DF BIOR</u>	ETENTION	N DAN	1 PR	OFILE	Ē	PROFILE	BIC	DRETE	INTION	UNDER
	<u>CENTE</u>	<u>RLINE (</u>	DF BIOR SCA HOR VERT	LE : 1"=50'	N DAN	<u>/ PR</u>	OFILE	Ē	PROFILE	BIC	но	ENTION SCALE : R1"=50' RT1"=5'	UNDER
	<u>CENTE</u>		SCA HOR VERT	LE : 1"=50'		<u>A PR</u>	OFILE	Ē	PROFILE	BIC	но	SCALE : R1"=50'	UNDER
		SPECIF	SCA HOR VERT ICATIONS FO	LE: 1"=50' -1"=5'	<u>10N</u>	· .		-		5. P	HO VE LANT INSTAI JULCH SHO	scale : R1"=50' RT1"=5' LLATION ULD BE PLACEE	) to uniform ti
	1. Mat The 2. Pla	SPECIFICA ERIAL SPECIFICA ALLOWABLE MA	sca hor vert ICATIONS FO TIONS ATERIALS TO BE U	ILE : 1"=50' -1"=5' I <u>R BIORETENT</u> ISED IN BIORETENTI	<mark>ION</mark> on area are	e detailer	) in TABLE B.3.1	.2. THIS SI	HEET	5. P M A A	HO VE LANT INSTAI AULCH SHO CCEPTED M REA DURING	scale : R1"=50' RT1"=5' LLATION ULD BE PLACED IULCH. PINE MU G A STORM EVE	
	1. Mat The 2. PLA The The The The The The The The The The	SPECIFICA ERIAL SPECIFICA ALLOWABLE MA VTING SOIL SOIL SHALL BI O INCHES, NO O A THAT MAY BE	sca hor vert ICATIONS FO TIONS ATERIALS TO BE U E A UNIFORM MIX THER MATERIALS HARMFUL TO PL	le : 1"=50' -1"=5' ISED IN BIORETENT , FREE OF STONES OR SUBSTANCES SI ANT GROWTH, OR F	ION ON AREA ARE , STUMPS, RO HALL BE MIXE PROVE A HINE	e detailer Dots or Ed or du Drance to	) in Table B.3. Other Similar Mped Within Th ) The Planting	.2. THIS SH OBJECTS I HE BIORET OR MAIN	HEET LARGER THAN ENTION TENANCE	5. P M A F F	HO VE AULCH SHOI CCEPTED M REA DURING OR ACCEPT	SCALE : R1"=50' RT1"=5' ULD BE PLACED ULCH. PINE MU G A STORM EVE ANCE. ( OF THE PLAN	) TO UNIFORM TI ILCH AND WOOD ENT AND ARE NO T MATERIAL SHAL
	1. MAT THI 2. PLA THI TWO ARI OP NO	SPECIFICA ERIAL SPECIFICA ALLOWABLE MA VTING SOIL SOIL SHALL BI O INCHES. NO O A THAT MAY BE ERATIONS. THE F KIOUS WEEDS AS	SCA HOR VERT ICATIONS FO TIONS ATERIALS TO BE U E A UNIFORM MIX THER MATERIALS HARMFUL TO PL PLANTING SOIL SH S SPECIFIED UNDE	ILE : 1"=50' -1"=5' ISED IN BIORETENT , FREE OF STONES OR SUBSTANCES SI ANT GROWTH, OR F ALL BE FREE OF B ER COMAR 15.08.01	ION ON AREA ARE , STUMPS, RO HALL BE MIXE PROVE A HINE ERMUD GRAS .05.	E DETAILED DOTS OR ED OR DU DRANCE TO S, QUACK	) in Table B.3. Other Similar Mped Within Th The Planting Grass, Johnso	.2. THIS SH OBJECTS I HE BIORET OR MAIN	HEET LARGER THAN ENTION TENANCE	5. P M A F F R F N	HO VE AULCH SHO CCEPTED M REA DURING OR ACCEPT ROOT STOCK OOT STOCK OOT BALL PLANTING PI MAINTAIN TH	SCALE : R1"=50' RT1"=5' ULD BE PLACED IULCH. PINE MU G A STORM EVE ANCE. C OF THE PLAN SHOULD BE PL T SHALL BE AT E PLANT STRAK	) TO UNIFORM TI JLCH AND WOOD ENT AND ARE NO
	1. MAT THI 2. PLA THI TWO ARI OP NO	SPECIFICA ERIAL SPECIFICA ALLOWABLE MA VTING SOIL SOIL SHALL BI O INCHES. NO O A THAT MAY BE ERATIONS. THE F KIOUS WEEDS AS PLANTING SOIL PH RANC	SCA HOR VERT ICATIONS TIONS ATERIALS TO BE U E A UNIFORM MIX THER MATERIALS HARMFUL TO PL PLANTING SOIL SH S SPECIFIED UNDE SHALL BE TESTE GE	ILE : 1"=50' -1"=5' ISED IN BIORETENT SED IN BIORETENT SED IN BIORETENT SUBSTANCES SI ANT GROWTH, OR F ALL BE FREE OF B FR COMAR 15.08.01 D AND SHALL MEE 5	ION ON AREA ARE STUMPS, RO HALL BE MIXE ROVE A HINE ROVE A HINE ERMUD GRAS .05. T THE FOLLO .2-7.	E DETAILED DOTS OR ED OR DU DRANCE TO IS, QUACK WING CRIT	) in Table B.3. Other Similar Mped Within Th The Planting Grass, Johnso	.2. THIS SH OBJECTS I HE BIORET OR MAIN	HEET LARGER THAN ENTION TENANCE	5. Pi A A F R R R A	HO VE AULCH SHO AULCH SHO AULCH SHO CCEPTED M REA DURING OR ACCEPT ROOT STOCK ROOT STOCK ROOT BALL PLANTING PI MAINTAIN TH FTER INSTA	SCALE : R1"=50' RT1"=5' ULD BE PLACED IULCH. PINE MU G A STORM EVE ANCE. ( OF THE PLAN SHOULD BE PL T SHALL BE AT E PLANT STRAIC LLATION.	) TO UNIFORM TI JLCH AND WOOD INT AND ARE NO T MATERIAL SHAL ANTED SO 1/8TH LEAST SIX INCH SHT DURING THE
	1. MAT THI 2. PLA THI TWO ARI OP NO	SPECIFICA ERIAL SPECIFICA ALLOWABLE MA VTING SOIL SOIL SHALL BI O INCHES. NO O A THAT MAY BE ERATIONS. THE F KIOUS WEEDS AS PLANTING SOIL PH RANG ORGANIC MAGNESI PHOSPHO	SCA HOR VERT ICATIONS FO TIONS ATERIALS TO BE U E A UNIFORM MIX, ITHER MATERIALS HARMFUL TO PL PLANTING SOIL SH S SPECIFIED UNDE SHALL BE TESTE GE MATTER UM ORUS (PHOSPHATE	ILE : $1^{"}=50'$ $-1^{"}=5'$ UR BIORETENT USED IN BIORETENT , FREE OF STONES OR SUBSTANCES SI ANT GROWTH, OR F IALL BE FREE OF B ER COMAR 15.08.01 TO AND SHALL MEE 5 1 3 E-P <sub>2</sub> O <sub>5</sub> ) 7	DN AREA ARE STUMPS, RO HALL BE MIXE ROVE A HINE ERMUD GRAS .05. THE FOLLO .2-7. .5-4% (BY W 5 Ib./ac 5 Ib./ac	E DETAILED DOTS OR ED OR DU DRANCE TO IS, QUACK WING CRIT	) in Table B.3. Other Similar Mped Within Th The Planting Grass, Johnso	.2. THIS SH OBJECTS I HE BIORET OR MAIN	HEET LARGER THAN ENTION TENANCE	5. P M A F R R F M A T C	HO VE LANT INSTAI AULCH SHOI CCEPTED M REA DURING TOR ACCEPT ROOT STOCK ROOT STOCK ROOT BALL PLANTING PI MAINTAIN TH FTER INSTA REES SHALL DNLY. STAKE	SCALE : R1"=50' RT1"=5' ULATION ULD BE PLACED UULCH. PINE MU G A STORM EVE ANCE. ( OF THE PLAN SHOULD BE PL T SHALL BE AT E PLANT STRAIC LLATION. L BE BRACED U TS ARE TO BE	) TO UNIFORM TI JLCH AND WOOD INT AND ARE NO T MATERIAL SHAL ANTED SO 1/8TH LEAST SIX INCH CHT DURING THE JSING 2" BY 2" EQUALLY SPACEE
	1. MAT THI 2. PLA THI TW ARI OP NO THI	SPECIFICA ERIAL SPECIFICA ALLOWABLE MA VTING SOIL SOIL SHALL BI DINCHES. NO O A THAT MAY BE ERATIONS. THE F KIOUS WEEDS AS PLANTING SOIL PH RANO ORGANIC MAGNESI PHOSPHO POTASSIU	SCA HOR VERT ICATIONS FO TIONS ATERIALS TO BE U E A UNIFORM MIX THER MATERIALS HARMFUL TO PL PLANTING SOIL SH S SPECIFIED UNDE SHALL BE TESTE GE MATTER UM ORUS (PHOSPHATE UM (POTASH-K2 SALTS	ILE : $1^{"}=50^{\circ}$ $-1^{"}=5^{\circ}$ USED IN BIORETENTING ISED IN BIORETENTING , FREE OF STONES OR SUBSTANCES SI ANT GROWTH, OR F IALL BE FREE OF B ER COMAR 15.08.01 D AND SHALL MEE 5 1 3 E-P <sub>2</sub> O <sub>5</sub> ) 7 0) 8	ION ON AREA ARE STUMPS, RO HALL BE MIXE ROVE A HINE ERMUD GRAS .05. THE FOLLO .2-7. .5-4% (BY W 5 Ib./ac 5 Ib./ac 5 Ib./ac 5 Ib./ac	E DETAILED DOTS OR ED OR DU DRANCE TO S, QUACK WING CRIT VEIGHT) ED 500 PJ	) in Table B.3. Other Similar Mped Within Th ) The Planting Grass, Johnso Eria:	.2. THIS S OBJECTS I HE BIORET G OR MAIN ON GRASS,	HEET LARGER THAN ENTION TENANCE OR OTHER	5. P M A F R R F M A T C	HO VE LANT INSTAI AULCH SHOI CCEPTED M REA DURING TOR ACCEPT ROOT STOCK ROOT STOCK ROOT BALL PLANTING PI MAINTAIN TH FTER INSTA REES SHALL DNLY. STAKE	SCALE : R1"=50' RT1"=5' ULATION ULD BE PLACED UULCH. PINE MU G A STORM EVE ANCE. ( OF THE PLAN SHOULD BE PL T SHALL BE AT E PLANT STRAIC LLATION. L BE BRACED U TS ARE TO BE	) TO UNIFORM TI JLCH AND WOOD ENT AND ARE NO T MATERIAL SHAL ANTED SO 1/8TH LEAST SIX INCH SHT DURING THE JSING 2" BY 2"
	1. MAT Thu 2. PLA Thu ARI OP NO THI THI ST SC	SPECIFICA ERIAL SPECIFICA ALLOWABLE MA VIING SOIL SOIL SHALL BI DINCHES. NO O A THAT MAY BE ERATIONS. THE F KIOUS WEEDS AS PLANTING SOIL PH RANG ORGANIC MAGNESI PHOSPHU POTASSIL SOLUBLE BIORETENTION ANDARD SOIL TE LUBLE SALTS. A	SCA HOR VERT ICATIONS TIONS ATERIALS TO BE U E A UNIFORM MIX THER MATERIALS HARMFUL TO PL PLANTING SOIL SH S SPECIFIED UNDE SHALL BE TESTE GE MATTER UM ORUS (PHOSPHATE UM (POTASH-K2 SALTS AREAS SHALL HA ST FOR pH, PHOS TEXTURAL ANALY	ILE : 1"=50' -1"=5' ISED IN BIORETENTI ISED IN BIORETENTI , FREE OF STONES OR SUBSTANCES SI ANT GROWTH, OR F HALL BE FREE OF B ER COMAR 15.08.01 D AND SHALL MEE 1 3 E-P <sub>2</sub> 0 <sub>5</sub> ) 7 0) 8 VE A MINIMUM OF SPHORUS, AND POT SIS IS REQUIRED F	ION ON AREA ARE , STUMPS, RC HALL BE MIXE PROVE A HINE PROVE A HINE PROVE A HINE PROVE A HINE PROVE A HINE PROVE A HINE PROVE A HINE S ID./0C 5 ID./0C 5 ID./0C 5 ID./0C 5 ID./0C ONE TEST. EV ASSIUM AND ROM THE SIT	E DETAILEE DOTS OR ED OR DU DRANCE TO S, QUACK WING CRIT WEIGHT) ED 500 PI ACH TEST ADDITIONA E STOCKP	) IN TABLE B.3. OTHER SIMILAR MPED WITHIN TH D THE PLANTING GRASS, JOHNSO ERIA: DM SHALL CONSIST L TESTS OF OR ILED TOPSOIL. I	OBJECTS I OBJECTS I HE BIORET OR MAIN ON GRASS, IN GRASS, IF OF BOTH RGANIC MAT	HEET LARGER THAN ENTION TENANCE OR OTHER OR OTHER THE TTER, AND IS	5. P M A F R R F M A T C	HO VE LANT INSTAI AULCH SHOI CCEPTED M REA DURING TOR ACCEPT ROOT STOCK ROOT STOCK ROOT BALL PLANTING PI MAINTAIN TH FTER INSTA REES SHALL DNLY. STAKE	SCALE : R1"=50' RT1"=5' ULATION ULD BE PLACED UULCH. PINE MU G A STORM EVE ANCE. ( OF THE PLAN SHOULD BE PL T SHALL BE AT E PLANT STRAIC LLATION. L BE BRACED U TS ARE TO BE	) TO UNIFORM TI JLCH AND WOOD INT AND ARE NO T MATERIAL SHAL ANTED SO 1/8TH LEAST SIX INCH CHT DURING THE JSING 2" BY 2" EQUALLY SPACEE
	1. Mat The 2. Pla The The Ari Op NO The St SC IM	SPECIFICA ERIAL SPECIFICA ALLOWABLE MA VIING SOIL SOIL SHALL BI DINCHES. NO O A THAT MAY BE ERATIONS. THE F KIOUS WEEDS AS PLANTING SOIL PH RANG ORGANIC MAGNESI PHOSPHU POTASSIL SOLUBLE BIORETENTION ANDARD SOIL TE LUBLE SALTS. A	SCA HOR VERT ICATIONS TIONS ATERIALS TO BE U E A UNIFORM MIX THER MATERIALS HARMFUL TO PL PLANTING SOIL SH S SPECIFIED UNDE SHALL BE TESTE GE MATTER UM ORUS (PHOSPHATE UM (POTASH-K2 SALTS AREAS SHALL HA ST FOR pH, PHOS TEXTURAL ANALY	ILE : 1"=50' -1"=5' ISED IN BIORETENT SED IN BIORETENT , FREE OF STONES OR SUBSTANCES SI ANT GROWTH, OR F ALL BE FREE OF B ER COMAR 15.08.01 D AND SHALL MEE 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 1 1 1 1 1 1 1 1 1 1 1 1	ION ON AREA ARE , STUMPS, RC HALL BE MIXE PROVE A HINE PROVE A HINE PROVE A HINE PROVE A HINE PROVE A HINE PROVE A HINE PROVE A HINE S ID./0C 5 ID./0C 5 ID./0C 5 ID./0C 5 ID./0C ONE TEST. EV ASSIUM AND ROM THE SIT	E DETAILEE DOTS OR ED OR DU DRANCE TO S, QUACK WING CRIT WEIGHT) ED 500 PI ACH TEST ADDITIONA E STOCKP	) IN TABLE B.3. OTHER SIMILAR MPED WITHIN TH D THE PLANTING GRASS, JOHNSO ERIA: DM SHALL CONSIST L TESTS OF OR ILED TOPSOIL. I	OBJECTS I OBJECTS I HE BIORET OR MAIN ON GRASS, IN GRASS, IF OF BOTH RGANIC MAT	HEET LARGER THAN ENTION TENANCE OR OTHER OR OTHER THE TTER, AND IS	5. P M A F R R F M A T C	HO VE LANT INSTAI AULCH SHOI CCEPTED M REA DURING TOR ACCEPT ROOT STOCK ROOT STOCK ROOT BALL PLANTING PI MAINTAIN TH FTER INSTA REES SHALL DNLY. STAKE	SCALE : R1"=50' RT1"=5' ULATION ULD BE PLACED UULCH. PINE MU G A STORM EVE ANCE. ( OF THE PLAN SHOULD BE PL T SHALL BE AT E PLANT STRAIC LLATION. L BE BRACED U TS ARE TO BE	) TO UNIFORM TI JICH AND WOOD INT AND ARE NO T MATERIAL SHAL ANTED SO 1/8TH LEAST SIX INCH SHT DURING THE JSING 2" BY 2" EQUALLY SPACED D SHOULD BE D
	1. MAT Thi 2. Pla Thi Two Ari OP NO Thi St St St St St	SPECIFICA ERIAL SPECIFICA ALLOWABLE MA VTING SOIL SOIL SHALL BI O INCHES. NO O A THAT MAY BE ERATIONS. THE F KIOUS WEEDS AS PLANTING SOIL PH RANG ORGANIC MAGNESI PHOSPHU POTASSII SOLUBLE LUBLE SALTS. A PORTED, THEN A CAVATED.	SCA HOR VERT ICATIONS FO TIONS ATERIALS TO BE U E A UNIFORM MIX THER MATERIALS HARMFUL TO PL PLANTING SOIL SH S SPECIFIED UNDE SHALL BE TESTE GE MATTER UM ORUS (PHOSPHATE UM ORUS (PHOSPHATE UM ORUS (PHOSPHATE UM ORUS (PHOSPHATE UM ORUS (PHOSPHATE CE SALTS AREAS SHALL HA ST FOR pH, PHOS TEXTURAL ANALY A TEXTURE ANALYS LABS CALIBRATE T	ILE : 1"=50' -1"=5' ISED IN BIORETENTI ISED IN BIORETENTI , FREE OF STONES OR SUBSTANCES SI ANT GROWTH, OR F HALL BE FREE OF B ER COMAR 15.08.01 D AND SHALL MEE 1 3 E-P <sub>2</sub> 0 <sub>5</sub> ) 7 0) 8 VE A MINIMUM OF SPHORUS, AND POT SIS IS REQUIRED F	ION N AREA ARE , STUMPS, RO HALL BE MIXE ROVE A HINE ROVE A HINE ROVE A HINE SERMUD GRAS .05. T THE FOLLO .2–7. .5–4% (BY W 5 Ib./ac 5 Ib./ac 5 Ib./ac 5 Ib./ac 5 Ib./ac 5 Ib./ac 5 Ib./ac 0NE TEST. E/ ASSIUM AND ROM THE SIT ORMED FOR	E DETAILED DOTS OR ED OR DU DRANCE TO S, QUACK WING CRIT VEIGHT) ED 500 PI ACH TEST ADDITIONA E STOCKP EACH LOC	) IN TABLE B.3. OTHER SIMILAR MPED WITHIN TH D THE PLANTING GRASS, JOHNSO ERIA: SHALL CONSIST L TESTS OF OR ILED TOPSOIL. II ATION WHERE TI	OBJECTS I OBJECTS I HE BIORET OR MAIN ON GRASS, ON GRASS, IF TOPSOIL HE TOP SO	HEET LARGER THAN ENTION TENANCE OR OTHER OR OTHER THE TTER, AND IS OIL WAS	5. P M A F R R F M A T C	HO VE LANT INSTAI AULCH SHOI CCEPTED M REA DURING TOR ACCEPT ROOT STOCK ROOT STOCK ROOT BALL PLANTING PI MAINTAIN TH FTER INSTA REES SHALL DNLY. STAKE	SCALE : R1"=50' RT1"=5' ULATION ULD BE PLACED UULCH. PINE MU G A STORM EVE ANCE. ( OF THE PLAN SHOULD BE PL T SHALL BE AT E PLANT STRAIC LLATION. L BE BRACED U TS ARE TO BE	) TO UNIFORM TI JLCH AND WOOD INT AND ARE NO T MATERIAL SHAL ANTED SO 1/8TH LEAST SIX INCH CHT DURING THE JSING 2" BY 2" EQUALLY SPACEE
	1. MAT The 2. PLA The Two Ari OP NO The ST SC IM EX SII TH SF	SPECIFICA ERIAL SPECIFICA ALLOWABLE MA VIING SOIL SOIL SHALL BI DINCHES. NO O A THAT MAY BE ERATIONS. THE F KIOUS WEEDS AS PLANTING SOIL PH RANG ORGANIC MAGNESI PHOSPHU POTASSIL SOLUBLE BIORETENTION ANDARD SOIL TE LUBLE SALTS. A PORTED, THEN A CAVATED. ICE DIFFERENT I E SAME TESTING OULD THE PH F	SCA HOR VERT ICATIONS FO TIONS ATERIALS TO BE U E A UNIFORM MIX THER MATERIALS HARMFUL TO PL PLANTING SOIL SH S SPECIFIED UNDE SHALL BE TESTE GE MATTER UM ORUS (PHOSPHATE UM ORUS (PHOSPHATE UM ORUS (PHOSPHATE UM ORUS (PHOSPHATE UM ORUS (PHOSPHATE UM ORUS (PHOSPHATE TEXTURAL ANALY A TEXTURE ANALYS LABS CALIBRATE T 5 FACILITY.	ILE : 1"=50' -1"=5' ISED IN BIORETENTINA , FREE OF STONES OR SUBSTANCES SI ANT GROWTH, OR F ALL BE FREE OF B COMAR 15.08.01 ID AND SHALL MEE 1 3 E-P <sub>2</sub> O <sub>5</sub> ) 7 O) 8 VE A MINIMUM OF SPHORUS, AND POT SIS IS REQUIRED F SIS SHALL BE PERF	ION ON AREA ARE , STUMPS, RO HALL BE MIXE PROVE A HINE PROVE A HINE PROVE A HINE PROVE A HINE PROVE FOLLOW .2-7. .5-4% (BY W 5 Ib./ac 5 Ib./ac 5 Ib./ac 5 Ib./ac 5 Ib./ac ID. TO EXCER ONE TEST. EV ASSIUM AND ROM THE SIT ORMED FOR PMENT DIFFEI	E DETAILED DOTS OR ED OR DU DRANCE TO S, QUACK WING CRIT WEIGHT) ED 500 PJ ACH TEST ADDITIONA E STOCKP EACH LOC RENTLY, A	) IN TABLE B.3. OTHER SIMILAR MPED WITHIN TH D THE PLANTING GRASS, JOHNSO ERIA: SHALL CONSIST L TESTS OF OR ILED TOPSOIL. II ATION WHERE TI	2. THIS SH OBJECTS I HE BIORET OR MAIN ON GRASS, ON GRASS, IN GRAS	HEET LARGER THAN ENTION TENANCE OR OTHER THE TTER, AND IS OIL WAS LL COME FROM	5. P M A F R R F M A T C	HO VE LANT INSTAL AULCH SHOU AULCH SHOU CCEPTED M REA DURING TOR ACCEPT ROOT STOCK COT BALL PLANTING PI ANINTAIN TH FTER INSTA REES SHALL DNLY. STAKE SRASSES AN	SCALE : R1"=50' RT1"=5' LLATION ULD BE PLACED IULCH. PINE MU G A STORM EVE ANCE. ( OF THE PLAN SHOULD BE PLAN SHOULD BE PLAN T SHALL BE AT E PLANT STRAIC LLATION. L BE BRACED U ES ARE TO BE ID LEGUME SEE MATERIAL MATERIAL	TO UNIFORM TI JICH AND WOOD INT AND ARE NO T MATERIAL SHAL ANTED SO 1/8TH LEAST SIX INCH SHT DURING THE JSING 2" BY 2" EQUALLY SPACED D SHOULD BE D Table E SEE LANE
	1. MAT THI 2. PLA THI TWO ARI OP NO THI SC IM EX SII TH SI TH SI SC IM SII TH SI TH SI TH SI TH SI TH	SPECIFICA ERIAL SPECIFICA ALLOWABLE MA VIING SOIL SOIL SHALL BI DINCHES. NO O A THAT MAY BE ERATIONS. THE F KIOUS WEEDS AS PLANTING SOIL PH RANC ORGANIC MAGNESI PHOSPHI POTASSIL SOLUBLE BIORETENTION ANDARD SOIL TE LUBLE SALTS. A PORTED, THEN A CAVATED. NCE DIFFERENT I E SAME TESTING OULD THE PH F TH IRON SULFAT MPACTION IS VERY IMPORT	SCA HOR VERT ICATIONS FO TIONS ATERIALS TO BE U E A UNIFORM MIX OTHER MATERIALS HARMFUL TO PL PLANTING SOIL SH S SPECIFIED UNDE SHALL BE TESTE GE MATTER UM ORUS (PHOSPHATE UM (POTASH-K2 SALTS AREAS SHALL HA ST FOR pH, PHOS A TEXTURE ANALYS AREAS SHALL HA ST FOR pH, PHOS A TEXTURE ANALYS AREAS SHALL HA ST FOR PH, PHOS A TEXTURE ANALYS LABS CALIBRATE T G FACILITY. TALL OUT OF THE E PLUS SULFUR.	ILE : 1"=50' -1"=5' ISED IN BIORETENTIAL , FREE OF STONES OR SUBSTANCES SI ANT GROWTH, OR F ALL BE FREE OF B ER COMAR 15.08.01 D AND SHALL MEE 1 3 E-P2 05) 7 O) 8 VE A MINIMUM OF SPHORUS, AND POT SIS IS REQUIRED F SIS SHALL BE PERF THEIR TESTING EQUI ACCEPTABLE RANGE	ION ON AREA ARE , STUMPS, RO HALL BE MIXE PROVE A HINE PROVE A HINE PROVE A HINE PROVE A HINE PROVE A HINE OF THE FOLLOW .2-7. .5-4% (BY W 5 Ib./ac 5 Ib./ac 5 Ib./ac 5 Ib./ac ONE TEST. E/ ASSIUM AND ROM THE SIT ORMED FOR PMENT DIFFEI E, IT MAY BE OTH THE BAS	E DETAILEE DOTS OR ED OR DU DRANCE TO S, QUACK WING CRIT YEIGHT) ED 500 PI ACH TEST ADDITIONA E STOCKP EACH LOC RENTLY, A : MODIFIED SE OF THE	) IN TABLE B.3. OTHER SIMILAR MPED WITHIN TH D THE PLANTING GRASS, JOHNSO ERIA: SHALL CONSIST L TESTS OF OR ILED TOPSOIL. II ATION WHERE TI LL TESTING RES D (HIGHER) WITH E BIORETENTION	2. THIS SI OBJECTS I HE BIORETI OR MAIN ON GRASS, IN GRA	HEET LARGER THAN ENTION TENANCE OR OTHER THE TTER, AND IS OIL WAS LL COME FROM (LOWER)	5. P M A F R R F M A T C	HO VE LANT INSTAL AULCH SHOU CCEPTED M REA DURING OR ACCEPT ROOT STOCK COT BALL PLANTING PI ANINTAIN TH FTER INSTA REES SHALL DNLY. STAKE SRASSES AN	SCALE : R1"=50' RT1"=5' LLATION ULD BE PLACED IULCH. PINE MU G A STORM EVE ANCE. C OF THE PLAN SHOULD BE PLACED SHOULD BE PLACED SHOULD BE PLAN SHOULD BE SHOULD SE SHOULD SE	) To Uniform Ti Jich and Wood Int and Are No T Material Shal Anted So 1/8th Least Six Inch Sht During The JSING 2" BY 2" Equally Spaced D Should Be D Table E
	1. MAT THE 2. PLA THE VI ARI OP NO THE ST SC IM EX SII TH SF WT 3. COL IT RE AR	SPECIFICA ERIAL SPECIFICA ALLOWABLE MA VTING SOIL SOIL SHALL BI DINCHES. NO O A THAT MAY BE ERATIONS. THE F KIOUS WEEDS AS PLANTING SOIL PH RANG ORGANIC MAGNESI PHOSPHU POTASSII SOLUBLE BIORETENTION ANDARD SOIL TE LUBLE SALTS. A PORTED, THEN A CAVATED. NCE DIFFERENT I E SAME TESTING OULD THE PH F TH IRON SULFAT APACTION IS VERY IMPORT QUIRED BACKFIL EAS ARE EXCAVA	SCA HOR VERT ICATIONS FO TIONS ATERIALS TO BE U E A UNIFORM MIX, ITHER MATERIALS HARMFUL TO PL PLANTING SOIL SH S SPECIFIED UNDE SHALL BE TESTE GE MATTER UM ORUS (PHOSPHATE JE SHALL BE TESTE GE MATTER UM ORUS (PHOSPHATE UM ORUS (PHOSPHATE UM ORUS (PHOSPHATE UM ORUS (PHOSPHATE ST FOR pH, PHOS A TEXTURAL ANALYS A TEXTURE ANALYS LABS CALIBRATE T FACILITY. FALL OUT OF THE E PLUS SULFUR.	ILE : 1"=50' -1"=5' ISED IN BIORETENTIAL , FREE OF STONES OR SUBSTANCES SI ANT GROWTH, OR F ALL BE FREE OF B ER COMAR 15.08.01 ID AND SHALL MEE 1 3 E-P2 05) 7 O) 8 VE A MINIMUM OF SPHORUS, AND POT SIS IS REQUIRED F SIS SHALL BE PERF THEIR TESTING EQUI ACCEPTABLE RANGE COMPACTION OF B E, USE EXCAVATION ADER, THE CONTRAC	ION N AREA ARE , STUMPS, RO HALL BE MIXE ROVE A HINE ROVE A HINE ROVE A HINE ERMUD GRAS .05. T THE FOLLO .2-7. .5-4% (BY W 5 Ib./ac 5	E DETAILED DOTS OR ED OR DU DRANCE TO S, QUACK WING CRIT VEIGHT) ED 500 PJ ACH TEST ADDITIONA E STOCKP EACH LOC RENTLY, A MODIFIED SE OF THE EMOVE OR USE WID	) IN TABLE B.3. OTHER SIMILAR MPED WITHIN TH D THE PLANTING GRASS, JOHNSO ERIA: SHALL CONSIST L TESTS OF OR ILED TOPSOIL. II ATION WHERE TI LL TESTING RES (HIGHER) WITH E BIORETENTION NGINAL SOIL. IF DE TRACK OR M	2. THIS SH OBJECTS I HE BIORET OR MAIN ON GRASS, ON GRASS, IN GRAS	HEET LARGER THAN ENTION TENANCE OR OTHER OR OTHER TIER, AND IS OIL WAS LL COME FROM (LOWER) THE TION CK EQUIPMENT,	5. P M A F R R F M A T C	HO VE LANT INSTAL AULCH SHOU AULCH SHOU CCEPTED M REA DURING OR ACCEPT ROOT STOCK ROOT BALL PLANTING PI MAINTAIN TH FTER INSTA REES SHALL ONLY. STAKE GRASSES AN PLA PLA (2.5 MUL	SCALE : R1"=50' RT1"=5' LLATION ULD BE PLACED IULCH. PINE MU G A STORM EVE ANCE. ( OF THE PLAN SHOULD BE PLAN SHOULD BE PLAN T SHALL BE AT E PLANT STRAIC LLATION. L BE BRACED U ES ARE TO BE ID LEGUME SEE MATERIAL MATERIAL MATERIAL MATERIAL MATERIAL MATERIAL MATERIAL MATERIAL	TO UNIFORM TI JICH AND WOOD INT AND ARE NO T MATERIAL SHAL ANTED SO 1/8TH LEAST SIX INCH SHT DURING THE JSING 2" BY 2" EQUALLY SPACED D SHOULD BE D SHOULD BE D
	1. MAT THI 2. PLA THI TW ARI OP NO THI ST SC IM EX SI I TH SI TH SI TH SI TH SI TH SI TH SI TH SI RE AR OF RL RE	SPECIFICA ERIAL SPECIFICA ALLOWABLE MA VIING SOIL SOIL SHALL BI DINCHES. NO O A THAT MAY BE ERATIONS. THE F KIOUS WEEDS AS PLANTING SOIL PH RANG ORGANIC MAGNESI PHOSPHI POTASSIL SOLUBLE BIORETENTION ANDARD SOIL TE LUBLE SALTS. A PORTED, THEN A CAVATED. ICE DIFFERENT I E SAME TESTING OULD THE PH F I'H IRON SULFAT MPACTION IS VERY IMPORT QUIRED BACKFIL EAS ARE EXCAVI LIGHT EQUIPME BBER TIRES WIT DUCED INFILTRAT	SCA HOR VERT ICATIONS FO TIONS ATERIALS TO BE U E A UNIFORM MIX THER MATERIALS THER MATERIALS HARMFUL TO PL PLANTING SOIL SH S SPECIFIED UNDE SHALL BE TESTE GE MATTER UM ORUS (PHOSPHATE UM ORUS (PHOSPHATE TO SALTS AREAS SHALL HA ST FOR pH, PHOS TEXTURAL ANALY TEXTURE ANALYS LABS CALIBRATE T FACILITY. TALL OUT OF THE E PLUS SULFUR. TANT TO MINIMIZE L. WHEN POSSIBLI ATED USING A LO/ INT WITH TURF TIF H LARGE LUGS, O TION RATES AND I	ILE : 1"=50' -1"=5' ISED IN BIORETENTI SED IN BIORETENTI , FREE OF STONES OR SUBSTANCES SI ANT GROWTH, OR F ALL BE FREE OF B ER COMAR 15.08.01 D AND SHALL MEE 5 1 20 AND SHALL MEE 5 5 1 20 AND SHALL MEE 5 5 5 5 5 5 5 5 5 5 5 5 5	ION ON AREA ARE , STUMPS, RO HALL BE MIXE PROVE A HINE PROVE A HINE	E DETAILED DOTS OR ED OR DU DRANCE TO S, QUACK WING CRIT VEIGHT) ED 500 PI ACH TEST ADDITIONA E STOCKP EACH LOC RENTLY, A MODIFIED SE OF THE EMOVE OF O USE WID VARROW T CAUSE EX N WILL SI	D IN TABLE B.3. OTHER SIMILAR MPED WITHIN TH D THE PLANTING GRASS, JOHNSO ERIA: SHALL CONSIST L TESTS OF OR ILED TOPSOIL. II ATION WHERE TI LL TESTING RES D (HIGHER) WITH E BIORETENTION RIGINAL SOIL. IF DE TRACK OR MARE CESSIVE COMPAG GNIFICANTLY CO	2. THIS SH OBJECTS I HE BIORETI F OF BOTH GOF BOTH RGANIC MAT IF TOPSOIL HE TOP SO SULTS SHAL HE TOP SO SULTS SHAL	HEET LARGER THAN ENTION TENANCE OR OTHER OR OTHER TIER, AND IS OIL WAS LL COME FROM (LOWER) THE TION CK EQUIPMENT, SULTING IN TO DESIGN FAILU	5. P A A F R R T C C C	HO VE LANT INSTAL AULCH SHOU ACCEPTED M REA DURING FOR ACCEPT ROOT STOCK ROOT	SCALE : R1"=50' RT1"=5' LLATION ULD BE PLACED IULCH. PINE MU G A STORM EVE ANCE. ( OF THE PLAN SHOULD BE SHOULD SEE SHOULD SHOULD SHOULD SEE SHOULD SHOULD SHO	TO UNIFORM TI JICH AND WOOD INT AND ARE NO T MATERIAL SHAL ANTED SO 1/8TH LEAST SIX INCH SHT DURING THE JSING 2" BY 2" EQUALLY SPACED D SHOULD BE D SHOULD BE D SAND SILT CLAY
	1. MAT THE 2. PLA THE TWO ARI OP NO THE THE SE SC IM EX SII TH SF WT 3. COI IT RE AR OF RL RE CCO OF SC	SPECIFICA ERIAL SPECIFICA ALLOWABLE MA VIING SOIL SOIL SHALL BI DINCHES. NO O A THAT MAY BE ERATIONS. THE F KIOUS WEEDS AS PLANTING SOIL PH RANC ORGANIC MAGNESI PHOSPHI POTASSII SOLUBLE BIORETENTION ANDARD SOIL TE LUBLE SALTS. A PORTED, THEN A CAVATED. ICE DIFFERENT I E SAME TESTING OULD THE PH F TH IRON SULFAT MPACTION IS VERY IMPORT QUIRED BACKFIL EAS ARE EXCAVA LIGHT EQUIPME BBER TIRES WIT DUCED INFILTRAT MPACTION CAN ERATION SUCH A IL PROFILE THRE	SCA HOR VERT ICATIONS FO TIONS ATERIALS TO BE U E A UNIFORM MIX DITHER MATERIALS THARMFUL TO PL PLANTING SOIL SH S SPECIFIED UNDE SHALL BE TESTE GE MATTER UM ORUS (PHOSPHATE UM (POTASH-K2 SALTS AREAS SHALL HA ST FOR pH, PHOS A TEXTURAL ANALYS AREAS SHALL HA ST FOR pH, PHOS A TEXTURE ANALYS AREAS SHALL HA ST FOR PH, PHOS A TEXTURE ANALYS LABS CALIBRATE T S FACILITY. TALL OUT OF THE E PLUS SULFUR. TANT TO MINIMIZE L. WHEN POSSIBLI ATED USING A LOA INT WITH TURF THE H LARGE LUGS, O IND RATES AND H BE ALLEVIATED AT AS A CHISEL PLOY OUGH THE 12 INO	ILE : 1"=50' -1"=5' ISED IN BIORETENTINAL ISED IN BIORETENTINAL	ION AREA ARE STUMPS, RC HALL BE MIXE ROVE A HINE ERMUD GRAS .05. THE FOLLOM .2-7. .5-4% (BY V 5 Ib./ac 5 Ib./ac 5 Ib./ac 5 Ib./ac ONE TEST. E/ ASSIUM AND ROM THE SIT ORMED FOR PMENT DIFFEI E, IT MAY BE OTH THE BAS HOES TO R COMPACTION MENT WITH N TIRES WILL COMPACTION BIORETENTIC 3SOILER. THE NE. SUBSTITU	E DETAILEE DOTS OR ED OR DU DRANCE TO S, QUACK WING CRIT YEIGHT) ED 500 PJ ACH TEST ADDITIONA E STOCKP EACH LOC RENTLY, A E MODIFIED SE OF THE EMOVE OR D USE WID VARROW T CAUSE IN SE TILLING TE METHO	<ul> <li>IN TABLE B.3.</li> <li>OTHER SIMILAR MPED WITHIN TH D THE PLANTING GRASS, JOHNSO</li> <li>ERIA:</li> <li>DTM</li> <li>SHALL CONSIST L TESTS OF OR ILED TOPSOIL. II</li> <li>ATION WHERE TI</li> <li>LL TESTING RES</li> <li>(HIGHER) WITH</li> <li>E BIORETENTION RIGINAL SOIL. IF</li> <li>DE TRACK OR MARACKS OR NARF CESSIVE COMPAGINIFICANTLY COI Y BY USING A S OPERATIONS A DOS MUST BE AI</li> </ul>	2. THIS SI OBJECTS I HE BIORETI OR MAIN N GRASS, I OF BOTH RGANIC MAT IF TOPSOIL HE TOP SI SULTS SHAI HE SI SULTS SHAI SULTS S	HEET LARGER THAN ENTION TENANCE OR OTHER OR OTHER TIER, AND IS OIL WAS LL COME FROM (LOWER) THE TION CLOWER) THE TION CK EQUIPMENT, SULTING IN TO DESIGN FAILU TILLING FRACTURE THE BY THE	5. P A A F R R T C C C	HO VE LANT INSTAL AULCH SHOL AULCH SHOL COR ACCEPTED M REA DURING FOR ACCEPT ROOT STOCK COOT BALL PLANTING PI ANINTAIN TH FTER INSTA REES SHALL ONLY. STAKE SRASSES AN PLA PLA (2.5 MUL STO GEO	SCALE : R1"=50' RT1"=5' LLATION ULD BE PLACED IULCH. PINE MU G A STORM EVE ANCE. ( OF THE PLAN SHOULD BE SHOULD SEE SHOULD SEE SHOULD SHOULD SEE SHOULD SE	TO UNIFORM TI JICH AND WOOD INT AND ARE NO IMATERIAL SHAL ANTED SO 1/8TH LEAST SIX INCH SHT DURING THE JSING 2" BY 2" EQUALLY SPACED D SHOULD BE D SHOULD BE D SHOULD BE D SHOULD BE D SEE LAND SILT CLAY SHREDDED PEA GRAY
	1. MAT THI 2. PLA THI TW ARI OP NO THI ST SC IM EX SII TH SF WT 3. COI IT RE AR OF RL RE CC OF SC EN	SPECIFICA ERIAL SPECIFICA ALLOWABLE MA VIING SOIL SOIL SHALL BI DINCHES. NO O A THAT MAY BE ERATIONS. THE F KIOUS WEEDS AS PLANTING SOIL PH RANC ORGANIC MAGNESI PHOSPHI POTASSII SOLUBLE BIORETENTION ANDARD SOIL TE LUBLE SALTS. A PORTED, THEN A CAVATED. ICE DIFFERENT I E SAME TESTING OULD THE PH F TH IRON SULFAT MPACTION IS VERY IMPORT QUIRED BACKFIL EAS ARE EXCAVA LIGHT EQUIPME BBER TIRES WIT DUCED INFILTRAT MPACTION CAN ERATION SUCH A IL PROFILE THRE	SCA HOR VERT ICATIONS FO TIONS ATERIALS TO BE U E A UNIFORM MIX THER MATERIALS HARMFUL TO PL PLANTING SOIL SH S SPECIFIED UNDE SHALL BE TESTE GE MATTER UM ORUS (PHOSPHATE UM ORUS (PHOSPHATE TESTURE ANALYS AREAS SHALL HA ST FOR pH, PHOS TEXTURE ANALYS A TEXTURE ANALYS A TEXTURE ANALYS LABS CALIBRATE T S FACILITY. TALL OUT OF THE E PLUS SULFUR. TANT TO MINIMIZE L. WHEN POSSIBLI ATED USING A LO/ INT WITH TURF TIF H LARGE LUGS, O TION RATES AND I BE ALLEVIATED AT AS A CHISEL PLOY OUGH THE 12 INO LERS TYPICALLY I	ILE : 1"=50' -1"=5' ISED IN BIORETENTINAL ISED IN BIORETENTINAL	ION AREA ARE STUMPS, RC HALL BE MIXE ROVE A HINE ERMUD GRAS .05. THE FOLLOM .2-7. .5-4% (BY V 5 Ib./ac 5 Ib./ac 5 Ib./ac 5 Ib./ac ONE TEST. E/ ASSIUM AND ROM THE SIT ORMED FOR PMENT DIFFEI E, IT MAY BE OTH THE BAS HOES TO R COMPACTION MENT WITH N TIRES WILL COMPACTION BIORETENTIC 3SOILER. THE NE. SUBSTITU	E DETAILEE DOTS OR ED OR DU DRANCE TO S, QUACK WING CRIT YEIGHT) ED 500 PJ ACH TEST ADDITIONA E STOCKP EACH LOC RENTLY, A E MODIFIED SE OF THE EMOVE OR D USE WID VARROW T CAUSE IN SE TILLING TE METHO	<ul> <li>IN TABLE B.3.</li> <li>OTHER SIMILAR MPED WITHIN TH D THE PLANTING GRASS, JOHNSO</li> <li>ERIA:</li> <li>DTM</li> <li>SHALL CONSIST L TESTS OF OR ILED TOPSOIL. II</li> <li>ATION WHERE TI</li> <li>LL TESTING RES</li> <li>(HIGHER) WITH</li> <li>E BIORETENTION RIGINAL SOIL. IF</li> <li>DE TRACK OR MARACKS OR NARF CESSIVE COMPAGINIFICANTLY COI Y BY USING A S OPERATIONS A DOS MUST BE AI</li> </ul>	2. THIS SI OBJECTS I HE BIORETI OR MAIN N GRASS, I OF BOTH RGANIC MAT IF TOPSOIL HE TOP SI SULTS SHAI HE SI SULTS SHAI SULTS S	HEET LARGER THAN ENTION TENANCE OR OTHER OR OTHER TIER, AND IS OIL WAS LL COME FROM (LOWER) THE TION CLOWER) THE TION CK EQUIPMENT, SULTING IN TO DESIGN FAILU TILLING FRACTURE THE BY THE	5. P A A F R R T C C C	HO VE LANT INSTAL AULCH SHOL AULCH SHOL CCEPTED M REA DURING FOR ACCEPT ROOT STOCK COOT BALL PLANTING PI ANINTAIN TH FTER INSTA REES SHALL ONLY. STAKE SRASSES AN PLA PLA (2.5 MUL STO GEO UND	SCALE : R1"=50' RT1"=5' LLATION ULD BE PLACED IULCH. PINE MU G A STORM EVE ANCE. ( OF THE PLAN SHOULD BE SHOULD SEE SHOULD SHOULD SHOULD SEE SHOULD SHOULD SHO	TO UNIFORM T JICH AND WOOD INT AND ARE NO T MATERIAL SHAL ANTED SO 1/8TH LEAST SIX INCH SHT DURING THE JSING 2" BY 2" EQUALLY SPACED D SHOULD BE D SHOULD BE D SHOULD BE D SEE LANE SAND SILT CLAY SHREDDED PEA GRAT PE TYPE VEL AASHTO F 758, T
	1. MAT THI 2. PLA THI TW ARI OP NO THI ST SC IM EX SII TH SF WI 3. COI IT RE AR OF RL RE CC OF SC EN HE	SPECIF ERIAL SPECIFICA ALLOWABLE MA VIING SOIL SOIL SHALL BI SOIL SHALL BI INCHES. NO O A THAT MAY BE ERATIONS. THE F KIOUS WEEDS AS PLANTING SOIL PH RANG ORGANIC MAGNESI PHOSPHU POTASSIL SOLUBLE BIORETENTION ANDARD SOIL TE LUBLE SALTS. A PORTED, THEN A CAVATED. ICE DIFFERENT I E SAME TESTING OULD THE PH F TH IRON SULFAT APACTION IS VERY IMPORT QUIRED BACKFIL EAS ARE EXCAV LIGHT EQUIPME BBER TIRES WIT DUCED INFILTRAT MPACTION SUCH A ERATION SUCH A ERATION SUCH A GINEER. ROTOTIL AVY EQUIPMENT.	SCA HOR VERT ICATIONS FO TIONS ATERIALS TO BE U E A UNIFORM MIX THER MATERIALS HARMFUL TO PL PLANTING SOIL SH S SPECIFIED UNDE SHALL BE TESTE GE MATTER UM ORUS (PHOSPHATE UM ORUS (PHOSPHATE UM ORUS (PHOSPHATE UM ORUS (PHOSPHATE UM ORUS (PHOSPHATE UM ORUS (PHOSPHATE UM ORUS (PHOSPHATE UM ORUS (PHOSPHATE UM ORUS (PHOSPHATE UM ORUS (PHOSPHATE TESTURE ANALYS AREAS SHALL HA ST FOR pH, PHOS TEXTURAL ANALYS AREAS SHALL HA ST FOR pH, PHOS TEXTURAL ANALYS AREAS SHALL HA ST FOR PH, PHOS TEXTURE ANALYS AREAS SHALL HA ST FOR PH, PHOS TEXTURE ANALYS AREAS SHALL ANALY TEXTURE ANALYS AREAS SHALL ANALYS AREAS SHALL ANALYS AREAS SHALL ANALY TEXTURE ANALYS AREAS SHALL ANALY TEXTURE ANALYS AREAS SHALL ANALY AREAS SHALL ANALY AREAS SHALL ANALY AREAS SHALL ANALYS AREAS SHALL ANA	ILE : 1"=50' -1"=5' ISED IN BIORETENTINAL ISED IN BIORETENTINAL	ION ON AREA ARE , STUMPS, RO HALL BE MIXE ROVE A HINE ROVE A HINE ERMUD GRAS .05. T THE FOLLOW .2-7. .5-4% (BY W 5 Ib./ac 5 Ib./ac 5 Ib./ac 5 Ib./ac 5 Ib./ac IDT TO EXCER ONE TEST. EV ASSIUM AND ROM THE SIT ORMED FOR PMENT DIFFEI E, IT MAY BE OTH THE BAS HOES TO R CTOR SHOULD MENT WITH N TIRES WILL . COMPACTIO BIORETENTIO SOILER. THE NOUGH TO F THE BIORET	E DETAILED DOTS OR ED OR DU DRANCE TO S, QUACK WING CRIT VEIGHT) ED 500 PI ACH TEST ADDITIONA E STOCKP EACH LOC RENTLY, A CAUSE OF THE EMOVE OF D USE WID VARROW T CAUSE EX N WILL SI DN FACILIT SE TILLING REDUCE 1 REDUCE 1 REDUCE 1 REDUCE 1	<ul> <li>IN TABLE B.3.</li> <li>OTHER SIMILAR</li> <li>MPED WITHIN THE PLANTING</li> <li>GRASS, JOHNSO</li> <li>ERIA:</li> <li>SHALL CONSIST</li> <li>L TESTS OF OR</li> <li>ILED TOPSOIL. II</li> <li>ATION WHERE TI</li> <li>LL TESTING RES</li> <li>(HIGHER) WITH</li> <li>BIORETENTION</li> <li>RIGINAL SOIL. IF</li> <li>E TRACK OR M</li> <li>RACKS OR NARF</li> <li>CESSIVE COMPAGINIFICANTLY COI</li> <li>Y BY USING A</li> <li>GOPERATIONS A</li> <li>ODS MUST BE AI</li> <li>CHE EFFECTS OF</li> <li>ACILITY BEFORE</li> </ul>	2. THIS SH OBJECTS I HE BIORETI OR MAIN ON GRASS, OR MAIN ON GRASS, IF TOPSOIL HE TOP SO SULTS SHAI HE TOP SO SULTS SHAI SULTS SHAI SULTS SHAI SULTS SHAI SU	HEET LARGER THAN ENTION TENANCE OR OTHER OR OTHER TIER, AND IS OIL WAS LL COME FROM (LOWER) THE TION CLOWER) THE TION CK EQUIPMENT, SULTING IN TO DESIGN FAILU TILLING FRACTURE THE BY THE TION FROM	5. P A A F R R T C C C	HO VE LANT INSTAL AULCH SHOL AULCH SHOL CCEPTED M REA DURING FOR ACCEPT ROOT STOCK COOT BALL PLANTING PI ANINTAIN TH FTER INSTA REES SHALL ONLY. STAKE SRASSES AN PLA PLA (2.5 MUL STO GEO UND	SCALE : R1"=50' RT1"=5' LLATION ULD BE PLACED IULCH. PINE MU G A STORM EVE ANCE. ( OF THE PLAN SHOULD BE PLAN SHOULD SE SHOULD SE	TO UNIFORM TI JICH AND WOOD INT AND ARE NO T MATERIAL SHAL ANTED SO 1/8TH LEAST SIX INCH SHT DURING THE JSING 2" BY 2" EQUALLY SPACED D SHOULD BE D SHOULD BE D SHOULD BE D SHOULD BE D SEE LAND SILT CLAY SHREDDED PEA GRAY PE TYPE VEL AASHTO
	1. MAT THI 2. PLA THI TW ARI OP NO THI SI SC SI TH SI TH SI TH SI TH SI TH SI TH SI TH SI TH SI TH SI TH SI TH SI TH SI SC SI SI TH SI SI SI TH SI SI SI TH SI SI SI SI SI SI SI SI SI SI SI SI SI	SPECIF ERIAL SPECIFICA ALLOWABLE MA VING SOIL SOIL SHALL BI DINCHES. NO O A THAT MAY BE ERATIONS. THE F KIOUS WEEDS AS PLANTING SOIL PH RANG ORGANIC MAGNESI PHOSPHI POTASSII SOLUBLE BIORETENTION ANDARD SOIL TE LUBLE SALTS. A PORTED, THEN A CAVATED. ICE DIFFERENT I E SAME TESTING OULD THE PH F TH IRON SULFAT APACTION IS VERY IMPORT QUIRED BACKFIL EAS ARE EXCAV/ LIGHT EQUIPMENT DUCED INFILTRAT MPACTION SUCH A IL PROFILE THRE GINEER. ROTOTIL AVY EQUIPMENT. ITOTILL 2 TO 3 TIONAL SAND LA	SCA HOR VERT ICATIONS FO TIONS ATERIALS TO BE U E A UNIFORM MIX DITHER MATERIALS HARMFUL TO PL PLANTING SOIL SH S SPECIFIED UNDE SHALL BE TESTE GE MATTER UM ORUS (PHOSPHATE UM ORUS (PHOSPHATE UM ORUS (PHOSPHATE UM ORUS (PHOSPHATE UM ORUS (PHOSPHATE UM ORUS (PHOSPHATE UM ORUS (PHOSPHATE UM ORUS (PHOSPHATE UM ORUS (PHOSPHATE TEXTURE ANALYS AREAS SHALL HA ST FOR pH, PHOS ATEXTURE ANALYS A TEXTURE ANALYS A TEX	ILE : 1"=50' -1"=5' ISED IN BIORETENTIAL SED IN BIORETENTIAL FREE OF STONES OR SUBSTANCES SI ANT GROWTH, OR F ALL BE FREE OF B ER COMAR 15.08.01 D AND SHALL MEE 5 1 E-P2 05) 7 0) 8 VE A MINIMUM OF SPHORUS, AND POT SIS IS REQUIRED F SIS SHALL BE PERF THEIR TESTING EQUI ACCEPTABLE RANGE COMPACTION OF B E, USE EXCAVATION ADER, THE CONTRAC RES. USE OF EQUIP INTO THE BASE OF INTO THE BASE OF	ION AREA ARE , STUMPS, RO HALL BE MIXE ROVE A HINE PROVE A HINE PROVE A HINE PROVE A HINE PROVE A HINE PROVE A HINE PROVE A HINE TO ESCOME T THE FOLLO .2-7. .5-4% (BY W 5 Ib./ac 5 Ib./ac 5 Ib./ac 5 Ib./ac 5 Ib./ac 10T TO EXCEE ONE TEST. EV ASSIUM AND ROM THE SIT ORMED FOR PMENT DIFFEI E, IT MAY BE OTH THE BAS HOES TO R CTOR SHOULD PMENT WITH N TIRES WILL . COMPACTIO E BIORETENTIC SSOILER. THE NE. SUBSTITU ENOUGH TO F THE BIORET FORE PREPAF	E DETAILED DOTS OR ED OR DU DRANCE TO S, QUACK WING CRIT YEIGHT) ED 500 PI ACH TEST ADDITIONA E STOCKP EACH LOC RENTLY, A E MODIFIED SE OF THE EMOVE OF D USE WID VARROW T CAUSE EX DN FACILIT SE TILLING TE METHO REDUCE T TENTION F. RING (ROTU	<ul> <li>IN TABLE B.3.</li> <li>OTHER SIMILAR MPED WITHIN THE D THE PLANTING GRASS, JOHNSO</li> <li>ERIA:</li> <li>SHALL CONSIST L TESTS OF OR ILED TOPSOIL. II ATION WHERE TI</li> <li>LL TESTING RES</li> <li>(HIGHER) WITH</li> <li>E BIORETENTION RIGINAL SOIL. IF DE TRACK OR MARACKS OR NARF CESSIVE COMPAGENIFICANTLY COI Y BY USING A S OPERATIONS A DOS MUST BE AI THE EFFECTS OF</li> <li>ACILITY BEFORE OTILLING) BASE.</li> <li>4 INCHES OF TAUTOR</li> </ul>	2. THIS SH OBJECTS I HE BIORETI OR MAIN ON GRASS, OR MAIN ON GRASS, TOF BOTH RGANIC MAT IF TOPSOIL HE TOP SO SULTS SHAI H LIME OR AREA AND BIORETEN IAREN TRAC ROW TIRES ONTRIBUTE PRIMARY T ARE TO RE PROVED F COMPACT BACKFILLI TOPSOIL O	HEET LARGER THAN ENTION TENANCE OR OTHER OR OTHER TIER, AND IS OIL WAS LL COME FROM (LOWER) THE TION CK EQUIPMENT, SULTING IN TO DESIGN FAILU TILLING FRACTURE THE BY THE TION FROM NG THE VER THE SAND,	5. Pi A A F R R T C G	HO VE LANT INSTAL AULCH SHOL AULCH SHOL COR ACCEPTED M REA DURING FOR ACCEPT ROOT STOCK ROOT STOCK	SCALE : R1"=50' RT1"=5' LLATION ULD BE PLACED IULCH. PINE MU G A STORM EVE ANCE. C OF THE PLAN SHOULD BE PLAN SHOULD SHOULD SE SHOULD SHOULD SHOULD SE SHOULD SHOULD	TO UNIFORM TI JICH AND WOOD INT AND ARE NO T MATERIAL SHAL ANTED SO 1/8TH LEAST SIX INCH SHT DURING THE JSING 2" BY 2" EQUALLY SPACED D SHOULD BE D SHOULD BE D SHOULD BE D SAND SILT CLAY SHREDDED PEA GRAY PE TYPE VEL AASHTO F 758, T
	1. MAT THU 2. PLA THU TWU ARI OP NO THU THU SI SC SC IM SI SC IM SI SC IM ST SC SC IM ST SC SC IM ST SC SC IM ST SC SC IM ST SC SC IM ST SC SC SC SC SC SC SC SC SC SC SC SC SC	SPECIFICA ERIAL SPECIFICA ALLOWABLE MA VIING SOIL SOIL SHALL BI DINCHES. NO O A THAT MAY BE ERATIONS. THE F KIOUS WEEDS AS PLANTING SOIL PH RANG ORGANIC MAGNESI PHOSPHU POTASSII SOLUBLE BIORETENTION ANDARD SOIL TE LUBLE SALTS. A PORTED, THEN A CAVATED. ICE DIFFERENT I E SAME TESTING OULD THE PH F TH IRON SULFAT MPACTION IS VERY IMPORT QUIRED BACKFIL LIGHT EQUIPME BBER TIRES WIT DUCED INFILTRAT MPACTION SUCH A LIGHT EQUIPME BBER TIRES WIT DUCED INFILTRAT MPACTION CAN ERATION SUCH A LIGHT EQUIPMENT. IL PROFILE THRO GINEER. ROTOTIL AVY EQUIPMENT. ITOTILL 2 TO 3 TIONAL SAND LA	SCA HOR VERT ICATIONS FO TIONS ATERIALS TO BE U E A UNIFORM MIX DITHER MATERIALS THARMFUL TO PL PLANTING SOIL SH S SPECIFIED UNDE SHALL BE TESTE G MATTER UM ORUS (PHOSPHATE UM (POTASH-K2 SALTS AREAS SHALL HA ST FOR pH, PHOS TEXTURAL ANALYS AREAS SHALL HA ST FOR PH, PHOS TEXTURE ANALYS AREAS SHALL HA ST FOR PH, PHOS TEXTURAL ANALYS AREAS SHALL HA ST FOR PH, PHOS TEXTURAL ANALYS AREAS SHALL HA ST FOR PH, PHOS TEXTURE ANALYS AREAS SHALL HA ST FOR PH PHOS TEXTURE ANALYS AREAS SHALL HA ST FOR PH, PHOS AREAS SHALL HA ST FOR PH ANALYS ST FOR	ILE : 1"=50' -1"=5' ISED IN BIORETENTIAL SED IN BIORETENTIAL FREE OF STONES OR SUBSTANCES SI ANT GROWTH, OR F ALL BE FREE OF B ER COMAR 15.08.01 D AND SHALL MEE 1 5 5 5 6 1 2 5 5 5 5 5 5 5 5 5 5 5 5 5	ION AREA ARE STUMPS, RC HALL BE MIXE ROVE A HINE ERMUD GRAS .05. THE FOLLO .2-7. .5-4% (BY V 5 Ib./ac 5 Ib./ac 5 Ib./ac 0NE TEST. EV ASSIUM AND ROM THE SIT ORMED FOR PMENT DIFFEI E, IT MAY BE OTH THE BIORE HOES TO R COMPACTO BIORETENTIO HOES TO R CTOR SHOULD MENT WITH N TIRES WILL COMPACTION BIORETENTIO BIORETENTIO BIORETENTIO BIORETENTIO SOILER. THE NOUGH TO F THE BIORE FORE PREPAR	E DETAILEE DOTS OR ED OR DU DRANCE TO S, QUACK WING CRIT YEIGHT) ED 500 PJ ACH TEST ADDITIONA E STOCKP EACH LOC RENTLY, A C MODIFIED SE OF THE EMOVE OF D USE WID VARROW T CAUSE ILLING TE METHO REDUCE T RENTION F. REDUCE T RENTION F. RENTION F	<ul> <li>IN TABLE B.3.</li> <li>OTHER SIMILAR MPED WITHIN THO THE PLANTING GRASS, JOHNSO</li> <li>ERIA:</li> <li>DTM</li> <li>SHALL CONSIST L TESTS OF OR ILED TOPSOIL. II ATION WHERE TI</li> <li>LL TESTING RES</li> <li>(HIGHER) WITH</li> <li>EBIORETENTION RIGINAL SOIL. IF</li> <li>E TRACK OR MURAL SOIFICANTLY COI Y BY USING A GOPERATIONS A OD FRACKS OR NARF CESSIVE COMPAC GNIFICANTLY COI Y BY USING A SOPERATIONS A DOS MUST BE AI THE EFFECTS OF</li> <li>ACILITY BEFORE OTILLING) BASE.</li> <li>4 INCHES OF T THE REMAINDE</li> <li>18". DO NOT</li> </ul>	2. THIS SI OBJECTS I HE BIORETI OR MAIN N GRASS, OF BOTH RGANIC MAT IF TOPSOIL HE TOP SI SULTS SHAI HE TOP SI SULTS SHAI HE TOP SI SULTS SHAI HE TOP SI SULTS SHAI HE TOP SI BIORETEN AREA AND BIORETEN AREA AND BIORETEN AREA TO RE PRIMARY T ARE TO RE PROVED F COMPACT BACKFILLI TOPSOIL O TOPSOIL O TOPSOIL O TOPSOIL O	HEET LARGER THAN ENTION TENANCE OR OTHER OR OTHER TIER, AND IS OIL WAS LL COME FROM (LOWER) THE TION (LOWER) THE TION CK EQUIPMENT, SULTING IN TO DESIGN FAILU ILLING FRACTURE THE BY THE TION FROM NG THE VER THE SAND, TOPSOIL TO FIN	5. Pi A A F R R T C G	HO VE LANT INSTAL AULCH SHOL AULCH SHOL COR ACCEPTED M REA DURING FOR ACCEPT ROOT STOCK ROOT STOCK	SCALE : R1"=50' RT1"=5' LLATION ULD BE PLACED IULCH. PINE MU G A STORM EVE ANCE. C OF THE PLAN SHOULD BE PLAN SHOULD SHOULD SE SHOULD SHOULD SHOULD SE SHOULD SHOULD	TO UNIFORM TI JICH AND WOOD INT AND ARE NO T MATERIAL SHAL ANTED SO 1/8TH LEAST SIX INCH SHT DURING THE JSING 2" BY 2" EQUALLY SPACED D SHOULD BE D SHOULD BE D SEE LAND SILT CLAY SHREDDED PEA GRAY PE TYPE VEL AASHTO F 758, T AASHTO N
	1. MAT THI 2. PLA THI TWU ARI OP NO THI ST SC III TH ST SC SC III TH ST SC SC III TH ST SC SC III TH ST SC SC III TH ST SC SC III TH ST SC SC III TH ST SC SC III TH ST SC SC III TH ST SC SC III TH ST SC SC III TH ST SC SC III TH ST SC SC III TH ST SC SC III TH ST SC SC III TH ST SC TH ST SC SC III TH ST SC TH ST SC SC III TH ST SC SC III TH ST SC SC III TH ST SC SC III TH ST SC SC III TH ST SC SC III TH ST SC SC III TH ST SC SC III TH ST SC SC III TH ST SC SC III TH ST SC SC SC SC III TH ST SC SC SC SC SC SC SC SC SC SC SC SC SC	SPECIFICA ERIAL SPECIFICA ALLOWABLE MA VIING SOIL SOIL SHALL BI SOIL SHALL BI DINCHES. NO O A THAT MAY BE ERATIONS. THE F KIOUS WEEDS AS PLANTING SOIL PH RANG ORGANIC MAGNESI PHOSPHI POTASSIL SOLUBLE BIORETENTION ANDARD SOIL TE LUBLE SALTS. A PORTED, THEN A CAVATED. ICE DIFFERENT I E SAME TESTING OULD THE PH F TH IRON SULFAT APACTION IS VERY IMPORT QUIRED BACKFIL EAS ARE EXCAVI LIGHT EQUIPMENT MPACTION SUCH A IL PROFILE THRE GINEER. ROTOTIL AVY EQUIPMENT. TOTILL 2 TO 3 TIONAL SAND LA EN BACKFILLING UIPMENT WITHIN E BASIN TO SUI	SCA HOR VERT ICATIONS FO TIONS ATERIALS TO BE U E A UNIFORM MIX THER MATERIALS THER MATERIALS THER MATERIALS THER MATERIALS THALL BE TESTE GE MATTER UM ORUS (PHOSPHATE UM (POTASH-K2 SALTS AREAS SHALL HA ST FOR pH, PHOS TEXTURAL ANALY TEXTURE ANALYS AREAS SHALL HA ST FOR PH, PHOS TEXTURAL ANALY A TEXTURE ANALYS AREAS SHALL ANALY TEXTURE ANALYS AREAS SHALL ANALY TEXTURE ANALYS AREAS SHALL ANALY A TEXTURE ANALYS A	ILE : 1"=50' -1"=5' ISED IN BIORETENTIAL SED IN BIORETENTIAL FREE OF STONES OR SUBSTANCES SI ANT GROWTH, OR F ALL BE FREE OF B ER COMAR 15.08.01 D AND SHALL MEE 1 E-P2 05) 7 O) 8 VE A MINIMUM OF SPHORUS, AND POT SIS IS REQUIRED F SIS SHALL BE PERF THEIR TESTING EQUI ACCEPTABLE RANGE COMPACTION OF B E, USE EXCAVATION ADER, THE CONTRAC RES. USE OF EQUIP INTO THE BASE OF THE BASE OF THE W, RIPPER, OR SUF CH COMPACTION ZO DO NOT TILL DEEP INTO THE BASE OF PONDED WATER BE VER THE SAND LAYE TO CREATE A GRAU	ION N AREA ARE , STUMPS, RO HALL BE MIXE ROVE A HINE ROVE A HINE ERMUD GRAS .05. T THE FOLLOW .2-7. .5-4% (BY W 5 Ib./ac 5 Ib./ac 5 Ib./ac 5 Ib./ac 5 Ib./ac 10T TO EXCEE ONE TEST. EX ASSIUM AND ROM THE SIT ORMED FOR PMENT DIFFEI E, IT MAY BE OTH THE BAS HOES TO R CTOR SHOULD MENT WITH N TIRES WILL . COMPACTIO BIORETENTIO SOILER. THE NE. SUBSTITU ENOUGH TO F THE BIORET FORE PREPAR ER, FIRST PL/ DATION ZONE. SOIL IN LIFT QUIPMENT CA TENTION MAT	E DETAILEE DOTS OR ED OR DU DRANCE TO S, QUACK WING CRIT VEIGHT) ED 500 PJ ACH TEST ADDITIONA E STOCKP EACH LOC RENTLY, A C MODIFIED SE OF THE EMOVE OF D USE WID VARROW T CAUSE EX N WILL SI DN FACILIT SE TILLING TE METHO REDUCE T REDUCE T REDUCE T IENTION F. RING (ROTU ACE 3 TO BACKFILL IS 12" TO N BE USE	<ul> <li>IN TABLE B.3.</li> <li>OTHER SIMILAR</li> <li>MPED WITHIN TH</li> <li>THE PLANTING</li> <li>GRASS, JOHNSO</li> <li>ERIA:</li> <li>SHALL CONSIST</li> <li>L TESTS OF OR</li> <li>ILED TOPSOIL. II</li> <li>ATION WHERE TI</li> <li>LL TESTING RES</li> <li>(HIGHER) WITH</li> <li>EBIORETENTION</li> <li>CIGINAL SOIL. IF</li> <li>E TRACK OR M</li> <li>RACKS OR NARF</li> <li>CESSIVE COMPAG</li> <li>GNIFICANTLY COI</li> <li>Y BY USING A</li> <li>GOPERATIONS A</li> <li>ODS MUST BE AI</li> <li>FHE EFFECTS OF</li> <li>ACILITY BEFORE</li> <li>OTILLING) BASE.</li> <li>4 INCHES OF TE</li> <li>18". DO NOT HE</li> </ul>	2. THIS SH OBJECTS I HE BIORETI OR MAIN ON GRASS, OR MAIN ON GRASS, IF TOPSOIL HE TOP SO SULTS SHAI HE TO RE PROVED I F COMPACT BACKFILLI TOPSOIL O R OF THE USE HEAV	HEET LARGER THAN ENTION TENANCE OR OTHER TER, AND IS OIL WAS LL COME FROM (LOWER) THE TION (LOWER) THE TION CK EQUIPMENT, SULTING IN TO DESIGN FAILU TILLING FRACTURE THE BY THE TION FROM NG THE VER THE SAND, TOPSOIL TO FIN Y R OF	5. Pi A A F R R T C G	HO VE LANT INSTAL AULCH SHOL AULCH SHOL COR ACCEPTED M REA DURING FOR ACCEPT ROOT STOCK ROOT STOCK	SCALE : R1"=50' RT1"=5' LLATION ULD BE PLACED IULCH. PINE MU G A STORM EVE ANCE. C OF THE PLAN SHOULD BE PLAN SHOULD SHOULD SE SHOULD SHOULD SHOULD SE SHOULD SHOULD	TO UNIFORM TI JICH AND WOOD INT AND ARE NO T MATERIAL SHAL ANTED SO 1/8TH LEAST SIX INCH SHT DURING THE JSING 2" BY 2" EQUALLY SPACED D SHOULD BE D SHOULD BE D SEE LAND SILT CLAY SHREDDED PEA GRAY PE TYPE VEL AASHTO F 758, T AASHTO N
	1. MAT THE 2. PLA THE TWO ARI OP NO THE TWO ARI OP NO THE SI SI TH SI SI TH SI SI TH SI SI TH SI SI SI TH SI SI TH SI SI SI SI TH SI SI SI SI SI SI SI SI SI SI SI SI SI	SPECIFICA ERIAL SPECIFICA ALLOWABLE MA VIING SOIL SOIL SHALL BI DINCHES. NO O A THAT MAY BE ERATIONS. THE F KIOUS WEEDS AS PLANTING SOIL PH RANG ORGANIC MAGNESI PHOSPHI POTASSII SOLUBLE BIORETENTION ANDARD SOIL TE LUBLE SALTS. A PORTED, THEN A CAVATED. NCE DIFFERENT I E SAME TESTING OULD THE PH F TH IRON SULFAT MPACTION IS VERY IMPORT QUIRED BACKFIL EAS ARE EXCAV/ LIGHT EQUIPMENT OULD THE PH F TH IRON SULFAT MPACTION SULFAT MPACTION CAN ERATION SUCH IL PROFILE THRE GINEER. ROTOTIL AVY EQUIPMENT. NTOTILL 2 TO 3 TIONAL SAND LA IEN BACKFILLING EN ROTOTILL TH IEN BACKFILLING INFORT LOADER INFORT LOADER INFORT LOADER INT MATERIAL HEETS 10 TO 1	SCA HOR VERT ICATIONS FO TIONS ATERIALS TO BE U E A UNIFORM MIX DITHER MATERIALS HARMFUL TO PL PLANTING SOIL SH S SPECIFIED UNDE SHALL BE TESTE G MATTER UM ORUS (PHOSPHATE UM (POTASH-K2 SALTS AREAS SHALL HA ST FOR pH, PHOS TEXTURAL ANALY A TEXTURE ANALYS AREAS SHALL HA ST FOR PH, PHOS TEXTURE ANALYS A TEXTURE	ILE : 1"=50' -1"=5' PR BIORETENT ISED IN BIORETENT , FREE OF STONES OR SUBSTANCES SI ANT GROWTH, OR F ALL BE FREE OF B ER COMAR 15.08.01 D AND SHALL MEE 1 5 E-P2 05) 7 0) 8 VE A MINIMUM OF SPHORUS, AND POT SIS IS REQUIRED F SIS SHALL BE PERF THEIR TESTING EQUI ACCEPTABLE RANGE COMPACTION OF B E, USE EXCAVATION ADER, THE CONTRAC RES. USE OF EQUIF INTO THE BASE OF THE W, RIPPER, OR SUE THE BASE OF THE THE THE BASE OF THE THE BASE OF THE THE THE BASE OF THE THE THE THE THE THE THE THE THE THE THE THE THE THE THE THE THE THE THE THE THE THE THE THE THE THE	ION AREA ARE STUMPS, RO HALL BE MIXE ROVE A HINE PROVE A HINE PROVE A HINE PROVE A HINE PREMUD GRAS .05. THE FOLLO .2-7. .5-4% (BY W 5 Ib./ac 5 Ib./ac 5 Ib./ac 5 Ib./ac 5 Ib./ac 0NE TEST. E/ ASSIUM AND ROM THE SIT ORMED FOR PMENT DIFFEI E, IT MAY BE OTH THE BAS HOES TO R COMPACTO E BIORETENTIO SOIL THE BIORET FORE PREPAR ER, FIRST PL/ DATION ZONE. SOIL IN LIFT QUIPMENT MAT TRACKS.	E DETAILEE DOTS OR ED OR DU DRANCE TO S, QUACK WING CRIT YEIGHT) ED 500 PI ACH TEST ADDITIONA E STOCKP EACH LOC RENTLY, A MODIFIED SE OF THE EMOVE OR D USE WIE VARROW T CAUSE EX DN FACILIT SE TILLING TE METHO REDUCE 1 RENTION F. RING (ROTU ACE 3 TO BACKFILL TS 12" TO N BELUSE FERIALS WI	<ul> <li>IN TABLE B.3.</li> <li>OTHER SIMILAR MPED WITHIN THE D THE PLANTING GRASS, JOHNSO</li> <li>ERIA:</li> <li>SHALL CONSIST L TESTS OF OR ILED TOPSOIL. II ATION WHERE TI</li> <li>LL TESTING RES</li> <li>(HIGHER) WITH</li> <li>BIORETENTION RIGINAL SOIL. IF DE TRACK OR MURACKS OR NARF CESSIVE COMPAGENIFICANTLY COI Y BY USING A SOPERATIONS A DO FERATIONS A DO FERATIONS A DO S MUST BE AI FHE EFFECTS OF</li> <li>ACILITY BEFORE OTILLING) BASE.</li> <li>4 INCHES OF T ACILITY BEFORE</li> <li>THE REMAINDE THE REMAINDE</li> <li>18". DO NOT HE THE LIGHT EQUIP</li> </ul>	2. THIS SI OBJECTS I HE BIORETI OR MAIN ON GRASS, OF BOTH RGANIC MAIN IN GRASS, IN GRA	HEET LARGER THAN ENTION TENANCE OR OTHER OR OTHER TIER, AND IS OIL WAS LL COME FROM (LOWER) THE TION (LOWER) THE TION CK EQUIPMENT, SULTING IN TO DESIGN FAILU ILLING FRACTURE THE BY THE TION FROM NG THE VER THE SAND, TOPSOIL TO FIN Y R OF CH AS A	5. Pi M A F F M A T C G	HO VE LANT INSTAL AULCH SHOL AULCH SHOL COR ACCEPTED M REA DURING FOR ACCEPT ROOT STOCK ROOT STOCK	SCALE : R1"=50' RT1"=5' LLATION ULD BE PLACED IULCH. PINE MU G A STORM EVE ANCE. C OF THE PLAN SHOULD BE PLAN SHOULD SHOULD SE SHOULD SHOULD SHOULD SE SHOULD SHOULD	TO UNIFORM TI JICH AND WOOD INT AND ARE NO T MATERIAL SHAL ANTED SO 1/8TH LEAST SIX INCH SHT DURING THE JSING 2" BY 2" EQUALLY SPACED D SHOULD BE D SHOULD BE D SEE LAND SILT CLAY SHREDDED PEA GRAY PE TYPE VEL AASHTO F 758, T AASHTO N
	1. MAT THE 2. PLA THE TWO ARI OP NO THE TWO ARI OP NO THE SI SI TH SI SI TH SI SI TH SI SI TH SI SI SI TH SI SI TH SI SI SI SI TH SI SI SI SI SI SI SI SI SI SI SI SI SI	SPECIFICA ERIAL SPECIFICA ALLOWABLE MA VIING SOIL SOIL SHALL BI DINCHES. NO O A THAT MAY BE ERATIONS. THE F KIOUS WEEDS AS PLANTING SOIL PH RANG ORGANIC MAGNESI PHOSPHI POTASSII SOLUBLE BIORETENTION ANDARD SOIL TE LUBLE SALTS. A PORTED, THEN A CAVATED. NCE DIFFERENT I E SAME TESTING OULD THE PH F TH IRON SULFAT MPACTION IS VERY IMPORT QUIRED BACKFIL EAS ARE EXCAV/ LIGHT EQUIPMENT OULD THE PH F TH IRON SULFAT MPACTION SULFAT MPACTION CAN ERATION SUCH IL PROFILE THRE GINEER. ROTOTIL AVY EQUIPMENT. NTOTILL 2 TO 3 TIONAL SAND LA IEN BACKFILLING EN ROTOTILL TH IEN BACKFILLING INFORT LOADER INFORT LOADER INFORT LOADER INT MATERIAL HEETS 10 TO 1	SCA HOR VERT ICATIONS FO TIONS ATERIALS TO BE U E A UNIFORM MIX DITHER MATERIALS HARMFUL TO PL PLANTING SOIL SH S SPECIFIED UNDE SHALL BE TESTE G MATTER UM ORUS (PHOSPHATE UM (POTASH-K2 SALTS AREAS SHALL HA ST FOR pH, PHOS TEXTURAL ANALY A TEXTURE ANALYS AREAS SHALL HA ST FOR PH, PHOS TEXTURE ANALYS A TEXTURE	ILE : 1"=50' -1"=5' ISED IN BIORETENTINAL ISED IN BIORETENTINAL ISE FREE OF BE ISE AND SHALL MEE ISE OF STONE OF STONE ISE SHALL BE PERFE INFO THE SAND POT ISE SUSE OF EQUIP INTO THE BASE OF FREE ISE NOT ACCEPTABLE ISE OF EQUIP INTO THE BASE OF THE ISE OF FREE ISE OF FREE	ION AREA ARE STUMPS, RO HALL BE MIXE ROVE A HINE PROVE A HINE PROVE A HINE PROVE A HINE PREMUD GRAS .05. THE FOLLO .2-7. .5-4% (BY W 5 Ib./ac 5 Ib./ac 5 Ib./ac 5 Ib./ac 5 Ib./ac 0NE TEST. E/ ASSIUM AND ROM THE SIT ORMED FOR PMENT DIFFEI E, IT MAY BE OTH THE BAS HOES TO R COMPACTO E BIORETENTIO SOIL THE BIORET FORE PREPAR ER, FIRST PL/ DATION ZONE. SOIL IN LIFT QUIPMENT MAT TRACKS.	E DETAILEE DOTS OR ED OR DU DRANCE TO S, QUACK WING CRIT YEIGHT) ED 500 PI ACH TEST ADDITIONA E STOCKP EACH LOC RENTLY, A MODIFIED SE OF THE EMOVE OR D USE WIE VARROW T CAUSE EX DN FACILIT SE TILLING TE METHO REDUCE 1 RENTION F. RING (ROTU ACE 3 TO BACKFILL TS 12" TO N BELUSE FERIALS WI	<ul> <li>IN TABLE B.3.</li> <li>OTHER SIMILAR MPED WITHIN THE D THE PLANTING GRASS, JOHNSO</li> <li>ERIA:</li> <li>SHALL CONSIST L TESTS OF OR ILED TOPSOIL. II ATION WHERE TI</li> <li>LL TESTING RES</li> <li>(HIGHER) WITH</li> <li>BIORETENTION RIGINAL SOIL. IF DE TRACK OR MURACKS OR NARF CESSIVE COMPAGENIFICANTLY COI Y BY USING A SOPERATIONS A DO FERATIONS A DO FERATIONS A DO S MUST BE AI FHE EFFECTS OF</li> <li>ACILITY BEFORE OTILLING) BASE.</li> <li>4 INCHES OF T ACILITY BEFORE</li> <li>THE REMAINDE THE REMAINDE</li> <li>18". DO NOT HE THE LIGHT EQUIP</li> </ul>	2. THIS SI OBJECTS I HE BIORETI OR MAIN ON GRASS, OF BOTH RGANIC MAIN IN GRASS, IN GRA	HEET LARGER THAN ENTION TENANCE OR OTHER OR OTHER TIER, AND IS OIL WAS LL COME FROM (LOWER) THE TION (LOWER) THE TION CK EQUIPMENT, SULTING IN TO DESIGN FAILU ILLING FRACTURE THE BY THE TION FROM NG THE VER THE SAND, TOPSOIL TO FIN Y R OF CH AS A	5. Pi M A F F M A T C G	HO VE LANT INSTAL AULCH SHOL AULCH SHOL COR ACCEPTED M REA DURING FOR ACCEPT ROOT STOCK ROOT STOCK	SCALE : R1"=50' RT1"=5' LLATION ULD BE PLACED IULCH. PINE MU G A STORM EVE ANCE. C OF THE PLAN SHOULD BE PLAN SHOULD SHOULD SE SHOULD SHOULD SHOULD SE SHOULD SHOULD	TO UNIFORM TI JICH AND WOOD INT AND ARE NO T MATERIAL SHAL ANTED SO 1/8TH LEAST SIX INCH SHT DURING THE JSING 2" BY 2" EQUALLY SPACED D SHOULD BE D SHOULD BE D SEE LAND SILT CLAY SHREDDED PEA GRAY PE TYPE VEL AASHTO F 758, T AASHTO N





# PLANTING SPECIFICATIONS

1. Plants, related material, and operations shall meet the detailed description, as given on the plans and as described herein. Where discrepancies exist between Standards & Guidelines referenced within these specifications and the Howard County Landscape Manual, the latter takes precedence.

2. All plant material, unless otherwise specified, that is not nursery grown, uniformly branched, does not have a vigorous root system, and does not conform to the most recent edition of the American Association of Nurservmen (AAN) Standards will be rejected. Plant material that is not healthy, vigorous, free from defects, decay, disfiguring roots, sunscald injuries, abrasions of the bark, plant disease, insect pest eggs, borers and all forms of insect infestations or objectionable disfigurements will be rejected. Plant material that is weak or which has been cut back from larger grades to meet specified requirements will be rejected. Trees with forked leaders will be rejected. All B & B plants shall be freshly dug; no healed-in plants or plants from cold storage will be accepted.

3. Unless otherwise specified, all general conditions, planting operations, details and planting specifications shall conform to the most recent edition of the "Landscape Specification Guidelines by the Landscape Contractors Association of MD. DC. & VA", (hereinafter "Landscape Guidelines") approved by the Landscape Contractors Association of Metropolitan Washington and the Potomac Chapter of the American Society of Landscape Architects.

4. Contractor shall guarantee all plant material for a period of one year after date of acceptance in accordance with the appropriate section on the Landscape Guidelines. Contractor's attention is directed to the maintenance requirements found within the one year specifications including watering and replacement of specified plant material.

5. Contractor shall be responsible for notifying all relevant and appropriate utility companies, utility contractors, and "Miss Utility" a minimum of 48 hours prior to the beginning of any work. Contractor may make minor adjustments in spacing and location of plant material to avoid conflicts with utilities. Major changes will require the approval of the landscape architect. Damage to existing structure and utilities shall be repaired at the expense of the Contractor.

6. Protection of existing vegetation to remain shall be accomplished via the temporary installation of 4 foot high snow fence at the drip line, see detail.

7. Contractor is responsible for installing all material in the proper planting season for each plant type. All planting is to be completed within growing season of completion of site construction. Do not plant Pinus strobus or XCupressacyparis leylandii between November 15 and March 15. Landscape plants are not to be installed before site is araded to final arade.

8. Contractor to rearade, fine arade, sod, hydroseed and straw mulch all areas disturbed by their work.

9. Bid shall be based on actual site conditions. No extra payment shall be made for work arising from actual site conditions differing from those indicated on drawings and specifications.

10. Plant augntities are provided for the convenience of the contractor only. If discrepancies exist between quantities shown on plan and those shown on the plant list, the quantities on the plan take precedence. Where discrepancies on the plan exist between the symbols and the callout leader, the number of symbols take precedence.

11. All shrubs and aroundcover areas shall be planted in continuous planting beds, prepared as specified, unless otherwise indicated on plans. (See Specification 13). Beds to be mulched with minimum 2" and maximum 3" of composted, double-shredded hardwood mulch throughout.

12. Positive drainage shall be maintained on planting beds (minimum 2 percent slope).

13. Bed preparation shall be as follows: Till into a minimum depth of 6" 1 yard of Compro or Leafgro per 200 SF of planting bed, and 1 yard of topsoil per 100 SF of bed. Add 3 lbs of standard 5-10-5 fertilizer per cubic yard of planting mix and till. Ericaceous plants (Azaleas, Rhododendrons, etc.): top dress after planting with iron sulfate or comparable product according to package directions. Taxus baccata 'Repandens' (English weeping yews): Top dress after planting with 1/4 to 1/2 cup lime each.

14. Planting mix: For trees not in a prepared bed, mix 50% Compro or Leafgro with 50% soil from tree hole to use as backfill, see tree planting detail.

15. Weed & insect control: Incorporate a pre-emergent herbicide into the planting bed following recommended rates on the label. For tree planting, apply a pre-emergent on top of soil and root ball before mulching. Caution: For areas to be planted with a ground cover, be sure to carefully check the chemical used to assure its adaptability to the specific groundcover to be treated. Maintain the mulch weed-free for the extent of the warranty period. Under no circumstances is a pesticide containing chlorpvrifos to be used as a means of pest control.

16. Water: All plant material planted shall be watered thoroughly the day of planting. All plant material not yet planted shall be properly protected from drying out until planted. At a minimum, water unplanted plant material daily and as necessary to avoid dessication.

17. Pruning: Do not heavily prune trees and shrubs at planting. Prune only broken, dead, or diseased branches.

18. All areas within contract limits disturbed during or prior to construction not designated to receive plants and mulch shall be fine graded, grass seed planted, and covered with straw mulch.

SCHEDULE A - PERIMETER LANDSCAPE EDGE							
JUNEVULE A - PERI	ADJACENT TO ROADWAYS	AI	DJACENT TO TER PROPER				
PERIMETER	3	1	2	4			
LANDSCAPE TYPE	NONE	A	A	A			
LINEAR FEET OF ROADWAY FRONTAGE/ PERIMETER	50'±	325'±	1241'±	953'±			
CREDIT FOR EXISTING VEGETATION (YES, NO, LINEAR FEET) (DESCRIBE BELOW IF NEEDED)	NO	YES 325 ' ±	YES 583 ' ±	YES 63'±			
CREDIT FOR DRIVE ENTRANCES (YES, NO, LINEAR FEET)	YES 14'	NO	NO	NO			
LINEAR FEET REMAINING	36'±	0'±	658'±	890'±			
CREDIT FOR WALL, FENCE, OR BERM (YES/NO/LINEAR FEET)	NO	NO	NO	NO			
NUMBER OF PLANTS REQUIRED SHADE TREES EVERGREEN TREES SHRUBS	0 0 0	0 0 0	11 0 0	15 0 0			
NUMBER OF PLANTS PROVIDED SHADE TREES EVERGREEN TREES SMALL FLOWERING TREES SHRUBS	- - - -	-	200 100 -	10			

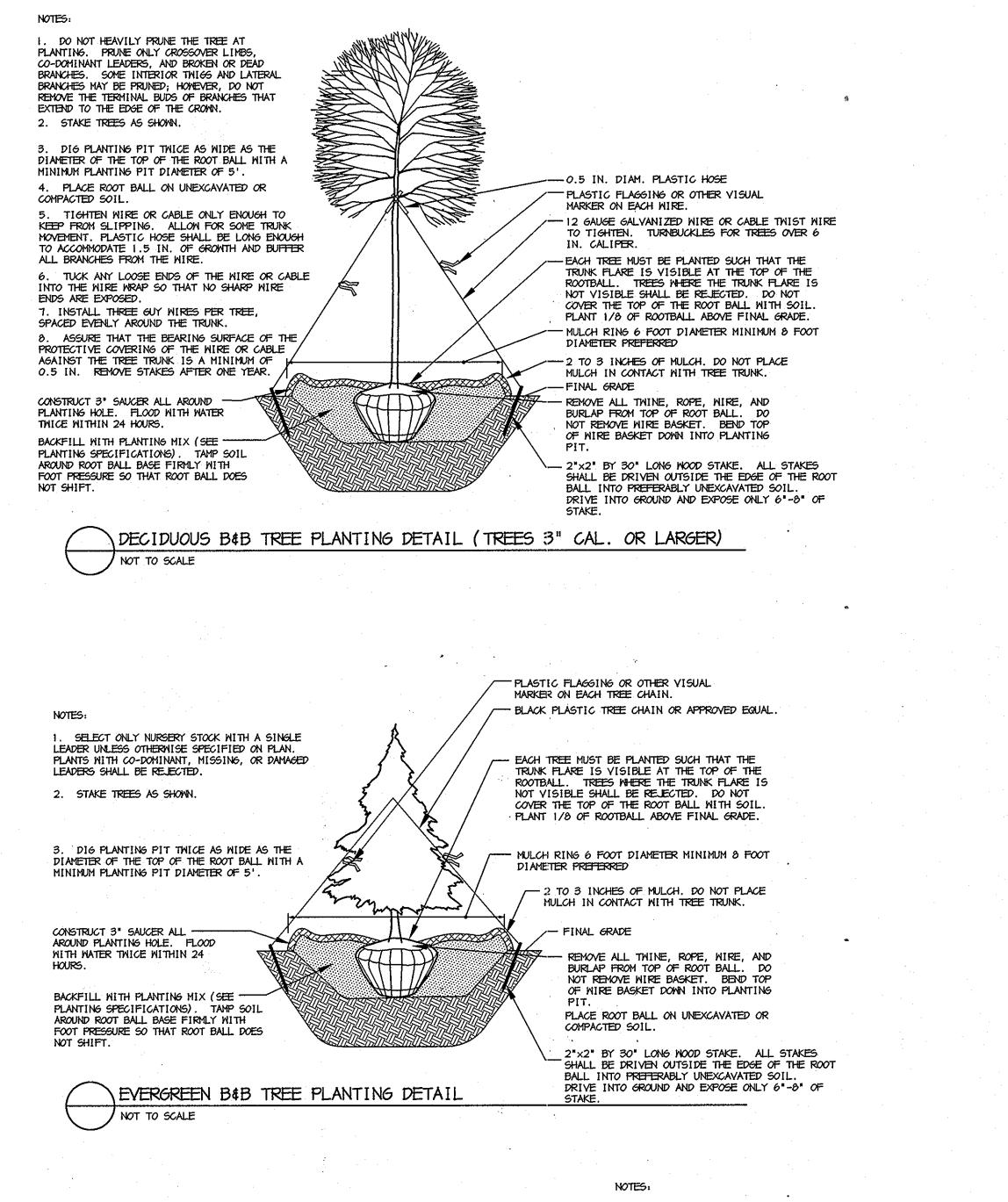
SCHEDULE 'A' NOTES:

REGULATIONS DO NOT REQUIRE LANDSCAPE EDGES, BUFFERING, OR SCREENING BETWEEN INTERNAL LOTS OR PARCELS WITHIN THE SAME DEVELOPMENT. (PAGE 17 OF THE HO.CO. LANDSCAPE MANUAL)

SUBSTITUTION NOTES

1. PERIMETER 2: 10 EVERGREENS WERE SUBSTITUTED FOR 5 SHADE TREES; 8 FLOWERING TREES WERE SUBSTITUTED FOR 4 SHADE TREES.

2. PERMITER 4: 10 EVERGREENS WERE SUBSTITUTED FOR 5 SHADE TREES.

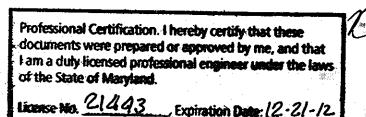


SCHEDULE D - STORMWATER MANAGEMENT AREA LANDSCAPING S.W.M. POND PERIMETER 1 LANDSCAPE TYPE в LINEAR FEET OF TOTAL PERIMETER ±518' NO CREDIT FOR EX. VEGETATION (NO OR YES \$ %) NO CREDIT FOR OTHER PROP. LANDSCAPING (NO OR YES \$ %) INEAR FEET OF REMAINING PERIMETER ±518' NUMBER OF TREES REQUIRED: SHADE TREES 10 EVERGREEN TREES 13 NUMBER OF PLANTS PROVIDED SHADE TREES 14 EVERGREEN TREES OTHER TREES (2:1 SUBSTITUTION, 50% MAX.) SHRUBS (10:1 SUBSTITUTION, 25% MAX.) ----80

SUBSTITUTION NOTES SCHEDULE D:

SHADE TREE REQUIREMENTS ARE MET BY 4 SHADE TREES, 6 EVERGREEN TREES (EQUIVALENT OF 3 SHADE TREES), AND 60 SHRUBS (EQUIVALENT OF 3 SHADE TREES).

EVERGREEN TREE REQUIREMENTS ARE MET BY & EVERGREEN TREES AND 50 SHRUBS (EQUIVALENT OF 5 EVERGREEN TREES)



No As-Built information is required on this sheet

1. DO NOT HEAVILY PRUNE THE SHRUB AT PLANTING. PRUNE ONLY BROKEN, DAMAGED, OR diseased BRANCHES.

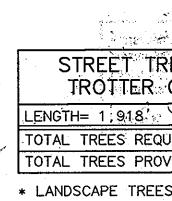
NOT TO SCALE

2. DIG PLANTING PIT 24" WIDER THAN THE DIAMETER OF THE TOP OF THE ROOT BALL WITH A MINIMUM PLANTING PIT DIAMETER OF 36".

3. FOR BAB SHRUBS: REMOVE ALL TWINE, ROPE, AND BURLAP FROM TOP OF ROOT BALL. 4. ALL CONTAINERS SHALL BE REMOVED

BEFORE INSTALLATION. CONSTRUCT 3" SAUCER

RIM ALL AROUND. FLOOD WITH WATER TWICE WITHIN THE 24 HOURS AFTER PLANTING.



RECENT

PLANT LIST								
SYMBOL	QTY.	SCIENTIFIC/ COMMON NAME	SIZE	ROOT	REMARKS			
BN	3	BETULA NIGRA 'HERITAGE' HERITAGE RIVER BIRCH	10–12' HT.	B&B	MULTI-STEM			
GT	6	GLEDITSIA TRIACANTHOS INERMIS 'IMPERIAL' IMPERIAL THORNLESS HONEYLOCUST	2.5- 3" CAL	B&B	PLANT AS SHOWN			
QP	7	QUERCUS PALUSTRIS PIN OAK	2.5- 3" CAL	B&B	PLANT AS SHOWN			
СК	8	CORNUS KOUSA CHINESE DOGWOOD	8'–10' <sub>,</sub> HT.	B&B	PLANT AS SHOWN			
IF	10	ILEX 'FESTIVE' FESTIVE RED HOLLY	56' HT.	B&B	PLANT AS SHOWN			
, IO	10	ILEX OPACA AMERICAN HOLLY	5–6'HT.	B&B	PLANT AS SHOWN			
PS	14	PINUS STROBUS WHITE PINE	6-8' HT.	B&B	PLANT AS SHOWN			
CA	23	CLETHRA ALNIFOLIA 'HUMMINGBIRD' HUMMINGBIRD SUMMERSWEET	2.5–3' HT.	CONT.	PLANT AS SHOWN			
IC	23	ILEX CORNUTA 'DWARF BURFORD' DWARF BURFORD CHINESE HOLLY	2.5– 3' HT.	CONT.	PLANT AS SHOWN			
IE	22	ILEX VERTICILLATA 'WINTER RED' AND 'SOUTHERN GENTLEMAN'	2.5– 3' HT.	CONT.	PLANT 1 SOUTHERN GENTLEMAN FOR			
		WINTER RED AND SOUTHERN GENTLEMAN WINTERBERRY			EVERY 5 WINTER RED			
ND	12	NANDINA DOMESTICA HEAVENLY BAMBOO	2.5– 3' HT.	CONT.	PLANT AS SHOWN			

PLANT LIST NOTES:

SEE GENERAL NOTE #2 ON SHEET 11 FOR SURETY TOTAL

		BIORETENTION PL	ANT LIS	Г		-
SYMBOL	QTY.	SCIENTIFIC/ COMMON NAME	SIZE	ROOT	SPACING	ZONE
MV	3	MAGNOLIA VIRGINIANA SWEETBAY MAGNOLIA	6-8'	B&B	PLANT AS SHOWN	*
IL	16	ILEX VERTICILLATA 'RED SPRITE' RED SPRITE WINTERBERRY	18-24"	CONT.	PLANT AS SHOWN	1, (2,3)
MP	11	MYRICA PENSYLVANICA NORTHERN BAYBERRY	24-30 <b>*</b>	CONT.	PLANT AS SHOWN	(3,4), 5
EP	75	EUPATORIUM PURPUREA JOE PYE WEED	1 GAL	CONT.	PLANT 24" O.C.	**
. IV	111	IRIS VERSICOLOR 'BLUE FLAG' BLUE FLAG IRIS	1 GAL.	CONT.	PLANT 24" O.C.	(1,2), 3
PC	131	PONTEDERIA CORDATA PICKERELWEED	1 QUART	CONT.	PLANT 24" O.C.	2,3

BIORETENTION PLANT LIST NOTES:

\* KNOWN TO TOLERATE INNUNDATION AS WELL AS DRY AREAS ACCORDING TO DIRR, MICHAEL A., MANUAL OF WOODY LANDSCAPE PLANTS

\*\* COMMONLY USED BIORETENTION SPECIES ACCORDING TO TABLE A.4 IN APPENDIX A OF THE MARYLAND MODEL STORMWATER MANAGEMENT ORDINANCE JULY 2000.

APPROVED : HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS. Wallin 2. 5-9-08 hele 1 CHIEF, BUREAU OF HIGHWAYS DATE APPROVED : HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING. DIVISION OF LAND BB DEVELOPMENT MU Jauna 13n2CHIEF. DEVELOPMENT ENGINÉERING DIVISION DATE NO. REVISION OWNER/DEVELOPER TROTTER CROSSING, LLC ATTN: BRIAN BOY 9695 NORFOLK AVENUE LAUREL, MD 20723 (410) 792-2565 TROTTER CROSSING PROJECT OPEN SPACE LOTS 6, 11, 12, AND 13 A RESUBDIVISION OF FOREST HILL LOT 32 AREA TAX MAP 35 GRID 2 PARCEL 6 ZONING R-20 5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND TITLE LANDSCAPE NOTES & DETAILS Patton Harris Rust & Associates,pc Engineers. Surveyors. Planners. Landscape Architects. 8818 Centre Park Drive Columbia, MD 21045 **T** 410.997.8900 **F** 410.997.9282 4.16.08 DATE PJS DESIGNED BY : OF MA DRAWN BY: ALC 3068 PROJECT NO: 11885 1-0 ENGR PLANS DATE : MARCH 10, 2008 SCALE : 1" = 50' Ú) DRAWING NO. <u>12</u> OF <u>14</u> PETER J. STONE #3068 F-05-067 AS-BUILT

- MULCH RING 4 FOOT DIAMETER MINIMUM 6 FOOT DIAMETER PREFERRED

> DO NOT COVER THE TOP OF THE ROOT BALL WITH SOIL. PLANT 1/8 OF ROOTBALL ABOVE FINAL GRADE.

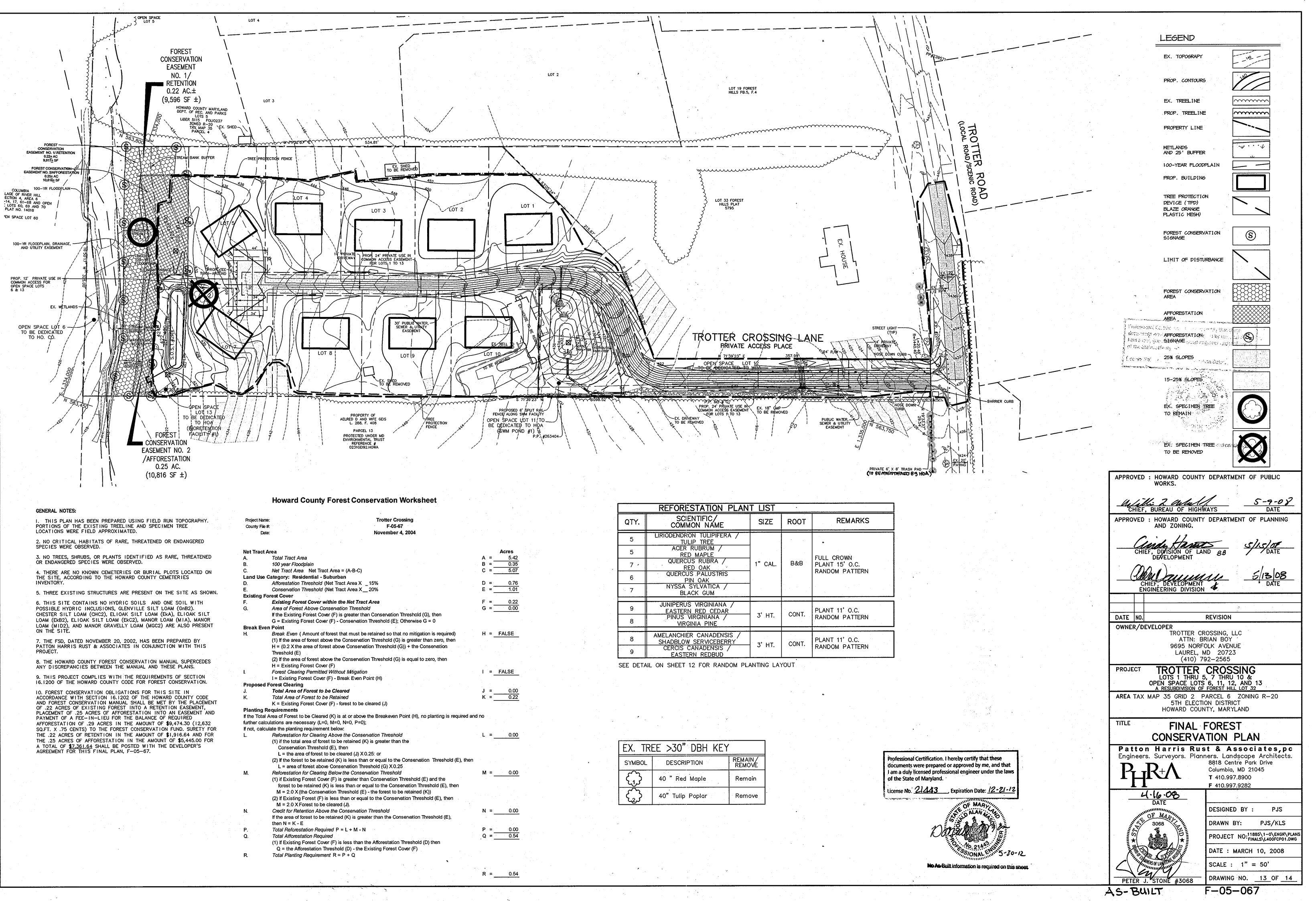
-2 TO 3 INCHES OF MULCH. DO NOT PLACE MULCH IN CONTACT WITH SHRUB TRUNK OR BRANCHES -----FINAL GRADE

-BACKFILL WITH PLANTING MIX (SEE PLANTING SPECIFICATIONS). TAMP SOIL AROUND BALL BASE FIRMLY WITH FOOT PRESSURE SO THAT ROOT BALL DOES NOT SHIFT.

SCARIFY ROOT BALL TO A DEPTH OF 3/4" ON ALL SIDES OR BUTTERFLY OUT CONTAINER PLANTS. PLACE ROOT BALL ON UNEXCAVATED OR COMPACTED SOIL.

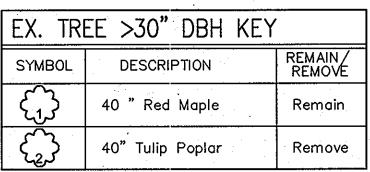
NDIVIDUAL SHRUB PLANTING DETAIL - B&B AND CONTAINER SHRUBS

- 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100		. <b>.</b>
EE CALCI	JLATIONS	
CROSSING	48 SHADE TREES	
JIRED /IDED	48 SHADE TREES	
	VATE ACCESS PLACE	J E.
	e thom size and a spectra fight	



County File #:       F-05-67 November 4, 2004         Net Tract Area       A.       Total Tract Area         B.       100 year Floodplain       C.         Net Tract Area       Net Tract Area Net Tract Area = (A-B-C)         Land Use Category: Residential - Suburban       D.         D.       Afforestation Threshold (Net Tract Area X _ 15%         E.       Conservation Threshold (Net Tract Area X _ 20%         Existing Forest Cover       F.         F.       Existing Forest Cover (F) is greater than Conservation Threshold (F the Existing Forest Cover (F) - Conservation Threshold (C); Otherwis         Break Even Point       H.         H.       Break Even (Amount of forest that must be retained so that no mitig (1) if the area of forest above the Conservation Threshold (G) is greater than Gonservation G(G)) + the Threshold (E)         (2) If the area of forest above the Conservation Threshold (G) is greater than Gonservation Threshold (G) (C) + the Threshold (E)         (2) If the area of forest above the Conservation Threshold (G) is equal H = Existing Forest Cover (F)         1.       Forest Clearing         (2) If the area of forest to be Cleared         K.       Total Area of Forest to be Cleared         K.       Total Area of Forest to be Cleared (J)         Planting Requirements         If the Total Area of forest to be Cleared (M)         If not, calcul	Project Name:	Trotter Crossing
Date:       November 4, 2004         Net Tract Area       A.       Total Tract Area         B.       100 year Floodplain       C.         C.       Net Tract Area Net Tract Area = (A-B-C)         Land Use Category: Residential - Suburban       D.         D.       Afforestation Threshold (Net Tract Area X _ 15%         E.       Conservation Threshold (Net Tract Area X _ 20%         Existing Forest Cover       F.         F.       Existing Forest Cover (F) is greater than Conservation Threshold         If the Existing Forest Cover (F) - Conservation Threshold (E); Otherwis         Break Even Point       H.         H.       Break Even (Amount of forest that must be retained so that no mitig <ul> <li>(1) If the area of forest above the Conservation Threshold (G) is greater</li> <li>H = (2) 2 X the area of forest above the Conservation Threshold (G) is equal</li> <li>H = Existing Forest Cover (F)</li> <li>I.</li> <li>Forest Clearing Permitted Without Mitigation</li> <li>I = Existing Forest Cover (F) - Break Even Point (H)</li> </ul> Proposed Forest Clearing         J.       Total Area of Forest to be Cleared         K.       Total Area of Forest to be Cleared (J)         Planting Requirements       If the Total Area of forest to be retained (L) is greater than the Conservation Threshold (E)         If the total area of forest to be retained (K)		
<ul> <li>A. Total Tract Area</li> <li>B. 100 year Floodplain</li> <li>C. Net Tract Area Net Tract Area = (A-B-C)</li> <li>Land Use Category: Residential - Suburban</li> <li>D. Afforestation Threshold (Net Tract Area X _ 15%</li> <li>E. Conservation Threshold (Net Tract Area X _ 20%</li> <li>Existing Forest Cover</li> <li>F. Existing Forest Cover within the Net Tract Area</li> <li>G. Area of Forest Above Conservation Threshold</li> <li>If the Existing Forest Cover (F) is greater than Conservation Threshold</li> <li>If the Existing Forest Cover (F) is greater than Conservation Threshold (E); Otherwis</li> <li>Break Even Point</li> <li>H. Break Even (Amount of forest that must be retained so that no mitig (1) if the area of forest above the Conservation Threshold (G)) is greated H = (0.2 X the area of forest above the Conservation Threshold (G)) + the Threshold (E)</li> <li>(2) If the area of forest above the Conservation Threshold (G) is equal H = Existing Forest Cover (F) - Break Even Point</li> <li>H. Forest Clearing Permitted Without Mitigation</li> <li>I = Existing Forest to be Cleared</li> <li>K. Total Area of Forest to be Cleared (K) is at or above the Breakeven Point (H), further calculations are necessary (L=0, M=0, N=0, P=0);</li> <li>If not, calculate the planting requirement below:</li> <li>L. Reforestation for Clearing Above the Conservation Threshold</li> <li>(1) if the total area of forest to be cleared (J) X0.25: or</li> <li>(2) If the forest above Conservation Threshold (G) X0.25.</li> <li>M. Reforestation for Clearing Below the Conservation Threshold</li> <li>(1) if Existing Forest (Cover (F) is greater than or equal to the Conservation Threshold</li> <li>(1) if Existing Forest (Cover (F) is greater than or equal to the Conservation Threshold</li> <li>(1) if the total area of forest to be retained (K) is greater than the Conservation Threshold</li> <li>(1) i</li></ul>		
<ul> <li>A. Total Tract Area</li> <li>B. 100 year Floodplain</li> <li>C. Net Tract Area Net Tract Area = (A-B-C)</li> <li>Land Use Category: Residential - Suburban</li> <li>D. Afforestation Threshold (Net Tract Area X _ 15%</li> <li>E. Conservation Threshold (Net Tract Area X _ 20%</li> <li>Existing Forest Cover</li> <li>F. Existing Forest Cover within the Net Tract Area</li> <li>G. Area of Forest Above Conservation Threshold</li> <li>If the Existing Forest Cover (F) is greater than Conservation Threshold</li> <li>If the Existing Forest Cover (F) is greater than Conservation Threshold</li> <li>G = Existing Forest Cover (F) - Conservation Threshold (E); Otherwis</li> <li>Break Even Point</li> <li>H. Break Even (Amount of forest that must be retained so that no mitig</li> <li>(1) If the area of forest above the Conservation Threshold (G) is greated</li> <li>H = (0.2 X the area of forest above Conservation Threshold (G)) + the Threshold (E)</li> <li>(2) If the area of forest above the Conservation Threshold (G) is equal</li> <li>H = Existing Forest Cover (F) - Break Even Point (H)</li> <li>Proposed Forest Clearing Permitted Without Mitigation</li> <li>I = Existing Forest to be Cleared</li> <li>K. Total Area of Forest to be Cleared (K) is at or above the Breakeven Point (H),</li> <li>further calculations are necessary (L=0, M=0, N=0, P=0);</li> <li>If not, calculate the planting requirement below:</li> <li>L. Reforestation for Clearing Above the Conservation Threshold</li> <li>(1) if the total area of forest to be cleared (J) X0.25: or</li> <li>(2) If the forest above Conservation Threshold (G) is greater than the Conservation for Clearing Below the Conservation Threshold</li> <li>(1) if Existing Forest (C) eref (F) is greater than conservation Threshold</li> <li>(1) if Existing Forest (C) eref (F) is greater than the Conservation for Clearing Below the Conservation Threshold&lt;</li></ul>		
<ul> <li>B. 100 year Floodplain</li> <li>C. Net Tract Area Net Tract Area = (A-B-C)</li> <li>Land Use Category: Residential - Suburban</li> <li>D. Afforestation Threshold (Net Tract Area X _ 15%</li> <li>E. Conservation Threshold (Net Tract Area X _ 20%</li> <li>Existing Forest Cover</li> <li>F. Existing Forest Cover (F) is greater than Conservation Threshold If the Existing Forest Cover (F) is greater than Conservation Threshold If the Existing Forest Cover (F) - Conservation Threshold (E); Otherwis</li> <li>Break Even Point</li> <li>H. Break Even (Amount of forest that must be retained so that no mitig (1) If the area of forest above the Conservation Threshold (G) is greater H = (0.2 X the area of forest above Conservation Threshold (G) is greater H = (0.2 X the area of forest above the Conservation Threshold (G) is equal H = Existing Forest Cover (F)</li> <li>I. Forest Clearing Permitted Without Mitigation I = Existing Forest Cover (F)</li> <li>I. Forest Clearing</li> <li>J. Total Area of Forest to be Cleared</li> <li>K. Total Area of Forest to be Cleared</li> <li>K. Total Area of Forest to be Cleared</li> <li>K. Total Area of Forest to be Cleared (K) is at or above the Breakeven Point (H), further calculations are necessary (L=0, M=0, N=0, P=0);</li> <li>If not, calculate the planting requirement below:</li> <li>L. Reforestation for Clearing Above the Conservation Threshold (1) if the total area of forest to be retained (K) is greater than the Conservation. Threshold (E), then L = the area of forest to be cleared (J) X0.25: or</li> <li>If the forest to be retained (K) is less than or equal to the Conservation forest to be retained (K) is less than or equal to the Conservation forest to be retained (K) is less than or equal to the Conservation forest to be retained (K) is less than or equal to the Conservation forest to be retained (K) is less than or equal to the Conservation forest to be retained (K) is greater than the conservation forest to be retained (K) is greater than the conservation forest to be re</li></ul>	Net Tract Ar	ea
<ul> <li>C. Net Tract Area Net Tract Area = (A-B-C)</li> <li>Land Use Category: Residential - Suburban</li> <li>D. Afforestation Threshold (Net Tract Area X _ 15%</li> <li>E. Conservation Threshold (Net Tract Area X _ 20%</li> <li>Existing Forest Cover</li> <li>F. Existing Forest Cover (F) is greater than Conservation Threshold If the Existing Forest Cover (F) - Conservation Threshold (E): Otherwis</li> <li>Break Even Point</li> <li>H. Break Even (Amount of forest that must be retained so that no mitig (1) If the area of forest above the Conservation Threshold (G) is greater H = (0.2 X the area of forest above the Conservation Threshold (G)) + the Threshold (E)</li> <li>(2) If the area of forest above the Conservation Threshold (G) is equal H = Existing Forest Cover (F) - Break Even Point (H)</li> <li>Proposed Forest Clearing Permitted Without Mitigation I = Existing Forest Cover (F) - Break Even Point (H)</li> <li>Proposed Forest Clearing Forest to be Cleared</li> <li>K. Total Area of Forest to be Cleared</li> <li>K. Total Area of Forest to be Cleared</li> <li>K. Total Area of Forest to be Cleared (K) is at or above the Breakeven Point (H), further calculate the planting requirement below:</li> <li>L. Reforestation for Clearing Above the Conservation Threshold (1) if the total area of forest to be cleared (J)</li> <li>Planting Requirements</li> <li>If the Total Area of Forest to be cleared (K) is greater than the Conservation.Threshold (E), then L = the area of forest to be retained (K) is greater than the Conservation.Threshold (E), then L = the area of forest to be cleared (J) X0.25: or (2) If the forest to be retained (K) is less than or equal to the Conservation Threshold (1) if Existing Forest Cover (F) is less than or equal to the Conservation Threshold (1) if Existing Forest Cover (F) is less than or equal to the Conservation Threshold (2) If Existing Forest Cover (F) is less than or equal to the Conservation Threshold (1) if Existing Forest Cover (F) is less than or equal to the Conservation Threshold</li></ul>		
<ul> <li>Land Use Category: Residential - Suburban</li> <li>D. Afforestation Threshold (Net Tract Area X _ 15%</li> <li>E. Conservation Threshold (Net Tract Area X _ 20%</li> <li>Existing Forest Cover</li> <li>F. Existing Forest Cover (F) is greater than Conservation Threshold if the Existing Forest Cover (F) is greater than Conservation Threshold if the Existing Forest Cover (F) - Conservation Threshold (E); Otherwis</li> <li>Break Even Point</li> <li>H. Break Even (Amount of forest that must be retained so that no mitig (1) if the area of forest above the Conservation Threshold (G) is greated H = (0.2 X the area of forest above the Conservation Threshold (G) is greated H = (0.2 X the area of forest above the Conservation Threshold (G) is equal H = Existing Forest Cover (F)</li> <li>I. Forest Clearing Permitted Without Mitigation I = Existing Forest Cover (F)</li> <li>I. Forest Clearing Permitted Without Mitigation I = Existing Forest Cover (F) - Break Even Point (H)</li> <li>Proposed Forest Clearing</li> <li>J. Total Area of Forest to be Cleared</li> <li>K. Total Area of Forest to be Cleared</li> <li>K. Total Area of Forest to be Cleared</li> <li>K. Total Area of Forest to be Cleared (J)</li> <li>Planting Requirements</li> <li>If the Total Area of Forest to be Cleared (K) is at or above the Breakeven Point (H), further calculations are necessary (L=0, M=0, N=0, P=0);</li> <li>If not, calculate the planting requirement below:</li> <li>L. Reforestation for Clearing Above the Conservation Threshold (1) if the total area of forest to be retained (K) is greater than the Conservation Threshold (E), then L = the area of forest to be cleared (J) X 0.25; or</li> <li>M. Reforestation for Clearing Below the Conservation Threshold (1) if Existing Forest Cover (F) is greater than Conservation Threshold (1) if Existing Forest Cover (F) is greater than Conservation Threshold (1) if Existing Forest to be cleared (J)</li> <li>N. Reforestation for Clearing Below the Conservation Threshold (1) if Existing Forest to be retained</li></ul>		
<ul> <li>D. Afforestation Threshold (Net Tract Area X _ 15%</li> <li>E. Conservation Threshold (Net Tract Area X _ 20%</li> <li>Existing Forest Cover</li> <li>F. Existing Forest Cover within the Net Tract Area</li> <li>G. Area of Forest Above Conservation Threshold <ul> <li>If the Existing Forest Cover (F) is greater than Conservation Threshold</li> <li>G = Existing Forest Cover (F) - Conservation Threshold (E); Otherwis</li> </ul> </li> <li>Break Even Point</li> <li>H. Break Even (Amount of forest that must be retained so that no mitig <ul> <li>(1) If the area of forest above the Conservation Threshold (G) is greated</li> <li>H = (0.2 X the area of forest above Conservation Threshold (G) is equal</li> <li>H = Existing Forest Cover (F)</li> <li>(2) If the area of forest above the Conservation Threshold (G) is equal</li> <li>H = Existing Forest Cover (F)</li> </ul> </li> <li>I. Forest Clearing Permitted Without Mtigation <ul> <li>I = Existing Forest Cover (F) - Break Even Point (H)</li> </ul> </li> <li>Proposed Forest Clearing</li> <li>J. Total Area of Forest to be Cleared</li> <li>K. Total Area of Forest to be Cleared</li> <li>K. Total Area of Forest to be Cleared</li> <li>K. Total Area of Forest to be Cleared (K) is at or above the Breakeven Point (H), further calculations are necessary (L=0, M=0, N=0, P=0);</li> <li>If not, calculate the planting requirement below:</li> <li>L. Reforestation for Clearing Above the Conservation Threshold <ul> <li>(1) if the total area of forest to be cleared (J) X 0.25; or</li> <li>(2) If the forest to be retained (K) is less than or equal to the Conservation Threshold <ul> <li>(1) if Existing Forest Cover (F) is greater than the Conservation Threshold</li> <li>(1) if Existing Forest Cover (F) is greater than Conservation Threshold <ul> <li>(1) if the torest to be retained (K) is less than or equal to the Conservation Threshold</li> <li>(1) if the forest to be cleared (J)</li> </ul> </li> <li>N. Credit for Retention Above the Conservation Threshold <ul> <li>(1) if Existing Fore</li></ul></li></ul></li></ul></li></ul>	-	
<ul> <li>E. Conservation Threshold (Net Tract Area X20%</li> <li>Existing Forest Cover</li> <li>F. Existing Forest Cover within the Net Tract Area</li> <li>G. Area of Forest Above Conservation Threshold If the Existing Forest Cover (F) is greater than Conservation Threshold G = Existing Forest Cover (F) - Conservation Threshold (E); Otherwis</li> <li>Break Even Point</li> <li>H. Break Even (Amount of forest that must be retained so that no mitig (1) If the area of forest above the Conservation Threshold (G) is greate H = (0.2 X the area of forest above the Conservation Threshold (G)) + the Threshold (E)</li> <li>(2) If the area of forest above the Conservation Threshold (G) is equal H = Existing Forest Cover (F)</li> <li>I. Forest Clearing Permitted Without Mtigation I = Existing Forest Cover (F)</li> <li>I. Forest Clearing</li> <li>J. Total Area of Forest to be Cleared</li> <li>K. Total Area of Forest to be Retained K = Existing Forest Cover (F) - forest to be cleared (J)</li> <li>Planting Requirements</li> <li>If the Total Area of Forest to be Cleared</li> <li>K. Total Area of Forest to be Cleared (K) is at or above the Breakeven Point (H), further calculations are necessary (L=0, M=0, N=0, P=0);</li> <li>If not, calculate the planting requirement below:</li> <li>L. Reforestation for Clearing Above the Conservation Threshold (1) if the total area of forest to be cleared (J) X0.25: or</li> <li>(2) If the forest to be retained (K) is less than or equal to the Conservation Threshold (E), then L = area of forest to be retained (K) N0.25</li> <li>M. Reforestation for Clearing Below the Conservation Threshold (1) if Existing Forest Cover (F) is greater than Conservation Threshold (1) if Existing Forest Cover (F) is greater than Conservation Threshold (1) if Existing Forest (D ver (F) is less than or equal to the Conservation M = 2.0 X (the Conservation Threshold (E) - the forest to be retained (K) is less than or equal to the Conservation Threshold (1) if Existing Forest (F) is less than or equal to the Conservat</li></ul>		
<ul> <li>Existing Forest Cover</li> <li>F. Existing Forest Cover within the Net Tract Area</li> <li>G. Area of Forest Above Conservation Threshold if the Existing Forest Cover (F) is greater than Conservation Threshold G = Existing Forest Cover (F) - Conservation Threshold (E); Otherwis</li> <li>Break Even Point</li> <li>H. Break Even (Amount of forest that must be retained so that no mitig (1) if the area of forest above the Conservation Threshold (G) is greated H = (0.2 X the area of forest above Conservation Threshold (G) is greated H = (0.2 X the area of forest above the Conservation Threshold (G) is equal H = Existing Forest Cover (F)</li> <li>I. Forest Clearing Permitted Without Mtigation I = Existing Forest Cover (F) - Break Even Point (H)</li> <li>Proposed Forest Clearing J. Total Area of Forest to be Cleared K. Total Area of Forest to be Cleared K. Total Area of Forest to be Cleared K = Existing Forest Cover (F) - forest to be cleared (J)</li> <li>Planting Requirements If the Total Area of Forest to be Cleared (K) is at or above the Breakeven Point (H), further calculations are necessary (L=0, M=0, N=0, P=0); If not, calculate the planting requirement below: L. Reforestation for Clearing Above the Conservation Threshold (1) if the total area of forest to be cleared (J) X0.25: or (2) If the forest to be retained (K) is less than or equal to the Conservation Threshold (G) X0.25</li> <li>M. Reforestation for Clearing Below the Conservation Threshold (1) if Existing Forest Cover (F) is greater than Conservation Threshold (1) if Existing Forest Cover (F) is greater than Conservation Threshold (1) if Existing Forest Cover (F) is greater than Conservation Threshold (1) if Existing Forest Cover (F) is greater than Conservation Threshold (1) if Existing Forest Cover (F) is greater than Conservation Threshold (1) if Existing Forest Cover (F) is greater than Conservation Threshold (1) if Existing Forest Cover (F) is greater than Conservation Threshold (2) If Existing Forest (F) is less t</li></ul>		
<ul> <li>F. Existing Forest Cover within the Net Tract Area</li> <li>G. Area of Forest Above Conservation Threshold if the Existing Forest Cover (F) is greater than Conservation Thresholk G = Existing Forest Cover (F) - Conservation Threshold (E); Otherwis</li> <li>Break Even Point</li> <li>H. Break Even (Amount of forest that must be retained so that no mitig (1) If the area of forest above the Conservation Threshold (G) is greate H = (0.2 X the area of forest above Conservation Threshold (G)) + the Threshold (E)</li> <li>(2) If the area of forest above the Conservation Threshold (G) is equal H = Existing Forest Cover (F)</li> <li>I. Forest Clearing Permitted Without Mitigation I = Existing Forest Cover (F) - Break Even Point (H)</li> <li>Proposed Forest Clearing</li> <li>J. Total Area of Forest to be Cleared</li> <li>K. Total Area of Forest to be Retained K = Existing Forest Cover (F) - forest to be cleared (J)</li> <li>Planting Requirements</li> <li>If the Total Area of Forest to be Clearing Above the Conservation Threshold (1) if the total area of forest to be Cleared (K) is at or above the Breakeven Point (H), further calculations are necessary (L=0, M=0, N=0, P=0); If not, calculate the planting requirement below:</li> <li>L. Reforestation for Clearing Above the Conservation Threshold (1) if the total area of forest to be retained (K) is greater than the Conservation Threshold (E), then L = the area of forest to be cleared (J) X0.25: or</li> <li>(2) If the forest to be retained (K) is less than or equal to the Conserv L = area of forest above Conservation Threshold (1) if Existing Forest Cover (F) is greater than Conservation Threshold (1) if Existing Forest Cover (F) is greater than Conservation Threshold (1) if Existing Forest (C) is less than or equal to the Conservation forest to be retained (K) is less than or equal to the Conservation forest to be retained (K) is less than or equal to the Conservation forest to be retained (K) is greater than the Conservation forest to be retained (K) is greater tha</li></ul>		
<ul> <li>G. Area of Forest Above Conservation Threshold If the Existing Forest Cover (F) is greater than Conservation Threshold G = Existing Forest Cover (F) - Conservation Threshold (E); Otherwis</li> <li>Break Even Point</li> <li>H. Break Even (Amount of forest that must be retained so that no mitig (1) If the area of forest above the Conservation Threshold (G)) + the Threshold (E)</li> <li>(2) If the area of forest above the Conservation Threshold (G) is greate H = (0.2 X the area of forest above the Conservation Threshold (G)) + the Threshold (E)</li> <li>(2) If the area of forest cover (F)</li> <li>I. Forest Clearing Permitted Without Mitigation I = Existing Forest Cover (F) - Break Even Point (H)</li> <li>Proposed Forest Clearing</li> <li>J. Total Area of Forest to be Cleared</li> <li>K. Total Area of Forest to be Cleared</li> <li>K. Total Area of Forest to be Cleared</li> <li>K. Total Area of Forest to be Cleared (K) is at or above the Breakeven Point (H), further calculations are necessary (L=0, M=0, N=0, P=0);</li> <li>If not, calculate the planting requirement below.</li> <li>L. Reforestation for Clearing Above the Conservation Threshold (1) if the total area of forest to be cleared (J) X0.25: or</li> <li>(2) If the forest to be retained (K) is greater than the Conservation Threshold (E), then L = the area of forest cover (F) is greater than Conservation Threshold (1) if Existing Forest Cover (F) is greater than Conservation Threshold (1) if Existing Forest Cover (F) is greater than Conservation Threshold (1) if Existing Forest Cover (F) is greater than Conservation Threshold (2) If the forest to be retained (K) is less than or equal to the Conservation forest to be retained (K) is less than or equal to the Conservation forest to be retained (K) is less than or equal to the Conservation forest to be retained (K) is less than or equal to the conservation forest to be retained (K) is less than or equal to the conservation forest to be retained (K) is less than or equal to the conservation forest to be r</li></ul>	-	•
<ul> <li>If the Existing Forest Cover (F) is greater than Conservation Threshold G = Existing Forest Cover (F) - Conservation Threshold (E); Otherwis</li> <li>Break Even Point</li> <li>H. Break Even (Amount of forest that must be retained so that no mitig <ul> <li>(1) If the area of forest above the Conservation Threshold (G) is greate</li> <li>H = (0.2 X the area of forest above Conservation Threshold (G)) + the Threshold (E)</li> <li>(2) If the area of forest above the Conservation Threshold (G) is equal</li> <li>H = Existing Forest Cover (F)</li> </ul> </li> <li>1. Forest Clearing Permitted Without Mitigation <ul> <li>I = Existing Forest Cover (F)</li> </ul> </li> <li>1. Forest Clearing</li> <li>J. Total Area of Forest to be Cleared</li> <li>K. Total Area of Forest to be Retained</li> <li>K = Existing Forest Cover (F) - forest to be cleared (J)</li> </ul> <li>Planting Requirements <ul> <li>If the Total Area of Forest to be Cleared (K) is at or above the Breakeven Point (H),</li> </ul> </li> <li>funct calculate the planting requirement below: <ul> <li>L. Reforestation for Clearing Above the Conservation Threshold</li> <li>(1) if the total area of forest to be cleared (J) X0.25: or</li> <li>(2) If the forest to be retained (K) is greater than the Conservation Threshold (G) X 0.25</li> </ul> </li> <li>M. Reforestation for Clearing Below the Conservation Threshold <ul> <li>(1) if Existing Forest Cover (F) is greater than Conservation Threshold</li> <li>(1) if the total area of forest to be cleared (J) X 0.25</li> </ul> </li> <li>M. Reforestation for Clearing Below the Conservation Threshold (G) X 0.25</li> <li>M. Reforestation for Clearing Below the Conservation Threshold</li> <li>(1) if Existing Forest Cover (F) is greater than Conservation Threshold</li> <li>(1) if Existing Forest Cover (F) is greater than Conservation Threshold</li> <li>(1) if Existing Forest Cover (F) is greater than Conservation Threshold</li> <li>(2) If the forest to be retained (K) is greater than Conservation Threshold</li> <li>(3)</li>		
<ul> <li>G = Existing Forest Cover (F) - Conservation Threshold (E); Otherwis</li> <li>Break Even Point</li> <li>H. Break Even (Amount of forest that must be retained so that no mitig <ul> <li>(1) If the area of forest above the Conservation Threshold (G) is greate</li> <li>H = (0.2 X the area of forest above Conservation Threshold (G)) + the Threshold (E)</li> <li>(2) If the area of forest above the Conservation Threshold (G) is equal</li> <li>H = Existing Forest Cover (F)</li> </ul> </li> <li>I. Forest Clearing Permitted Without Mitigation <ul> <li>I = Existing Forest Cover (F) - Break Even Point (H)</li> </ul> </li> <li>Proposed Forest Clearing</li> <li>J. Total Area of Forest to be Cleared</li> <li>K. Total Area of Forest to be Cleared</li> <li>K. Total Area of Forest to be Cleared (K) is at or above the Breakeven Point (H),</li> <li>Pranting Requirements</li> <li>If the Total Area of Forest to be Cleared (K) is at or above the Breakeven Point (H),</li> <li>further calculations are necessary (L=0, M=0, N=0, P=0);</li> <li>If not, calculate the planting requirement below:</li> <li>L. Reforestation for Clearing Above the Conservation Threshold <ul> <li>(1) if the total area of forest to be cleared (J) X0.25: or</li> <li>(2) If the forest to be retained (K) is greater than the Conservation for Clearing Below the Conservation Threshold</li> <li>(1) if Existing Forest Cover (F) is greater than Conservation Threshold <ul> <li>(1) if Existing Forest (Cover (F) is greater than Conservation Threshold</li> <li>(1) if Existing Forest (Cover (F) is greater than Conservation Threshold</li> <li>(1) if Existing Forest (Cover (F) is less than or equal to the Conservation Threshold</li> <li>(1) if Existing Forest (F) is less than or equal to the Conservation Threshold</li> <li>(1) if Existing Forest (F) is less than or equal to the Conservation Threshold</li> <li>(1) if Existing Forest (F) is less than or equal to the Conservation Threshold</li> <li>(2) If Existing Forest (F) is less than or equal to the Conservation Thresh</li></ul></li></ul></li></ul>	0.	
<ul> <li>Break Even Point</li> <li>H. Break Even (Amount of forest that must be retained so that no mitig <ul> <li>(1) If the area of forest above the Conservation Threshold (G) is greate</li> <li>H = (0.2 X the area of forest above Conservation Threshold (G)) + the Threshold (E)</li> <li>(2) If the area of forest above the Conservation Threshold (G) is equal</li> <li>H = Existing Forest Cover (F)</li> </ul> </li> <li>I. Forest Clearing Permitted Without Mitigation <ul> <li>I = Existing Forest Cover (F) - Break Even Point (H)</li> </ul> </li> <li>Proposed Forest Clearing</li> <li>J. Total Area of Forest to be Cleared</li> <li>K. Total Area of Forest to be Retained</li> <li>K = Existing Forest Cover (F) - forest to be cleared (J)</li> </ul> <li>Planting Requirements <ul> <li>If the Total Area of Forest to be Cleared (K) is at or above the Breakeven Point (H), further calculations are necessary (L=0, M=0, N=0, P=0);</li> <li>If not, calculate the planting requirement below:</li> <li>L. Reforestation for Clearing Above the Conservation Threshold <ul> <li>(1) if the total area of forest to be cleared (J) X0.25: or</li> <li>(2) If the forest to be retained (K) is less than or equal to the Conservation Threshold <ul> <li>(1) if the forest to be retained (K) is less than or equal to the Conservation Threshold</li> <li>(1) if Existing Forest Cover (F) is greater than Conservation Threshold <ul> <li>(1) if Existing Forest Cover (F) is less than or equal to the Conservation Threshold</li> <li>(1) if Existing Forest Cover (F) is greater than Conservation Threshold <ul> <li>(1) if Existing Forest Cover (F) is greater than Conservation Threshold</li> <li>(1) if Existing Forest Cover (F) is greater than Conservation Threshold</li> <li>(1) if Existing Forest (F) is less than or equal to the Conservation Threshold</li> <li>(2) If Existing Forest (F) is less than or equal to the Conservation Threshold</li> <li>(2) If Existing Forest (F) is less than or equal to the Conservation Threshold</li> <li>(3) If the area of forest</li></ul></li></ul></li></ul></li></ul></li></ul></li>		
<ul> <li>H. Break Even ( Amount of forest that must be retained so that no mitig <ul> <li>(1) If the area of forest above the Conservation Threshold (G) is greated</li> <li>H = (0.2 X the area of forest above Conservation Threshold (G)) + the Threshold (E)</li> <li>(2) If the area of forest above the Conservation Threshold (G) is equal</li> <li>H = Existing Forest Cover (F)</li> </ul> </li> <li>I. Forest Clearing Permitted Without Mitigation <ul> <li>I = Existing Forest Cover (F) - Break Even Point (H)</li> </ul> </li> <li>Proposed Forest Clearing</li> <li>J. Total Area of Forest to be Cleared</li> <li>K. Total Area of Forest to be Cleared</li> <li>K. Total Area of Forest to be Cleared (K) is at or above the Breakeven Point (H),</li> <li>Purtner calculate the planting requirement below:</li> <li>L. Reforestation for Clearing Above the Conservation Threshold <ul> <li>(1) if the total area of forest to be cleared (J) X0.25: or</li> <li>(2) If the forest to be retained (K) is less than or equal to the Conservation Threshold</li> <li>(1) if Existing Forest Cover (F) is greater than the Conservation for Clearing Below the Conservation Threshold</li> <li>(1) if Existing Forest Cover (F) is greater than conservation Threshold</li> <li>(1) if Existing Forest Cover (F) is greater than Conservation Threshold</li> <li>(1) if Existing Forest Cover (F) is greater than Conservation Threshold</li> <li>(1) if Existing Forest Cover (F) is greater than Conservation Threshold</li> <li>(1) if Existing Forest Cover (F) is greater than Conservation Threshold</li> <li>(1) if Existing Forest Cover (F) is greater than Conservation Threshold</li> <li>(1) if Existing Forest Cover (F) is greater than Conservation Threshold</li> <li>(1) if Existing Forest (F) is less than or equal to the Conservation Threshold</li> <li>(1) if Existing Forest (F) is less than or equal to the Conservation Threshold</li> <li>(2) If Existing Forest (F) is less than or equal to the Conservation Threshold</li> <li>(3) if the area of forest to be cleared (J)</li></ul></li></ul>	Break Even	
<ul> <li>(1) If the area of forest above the Conservation Threshold (G) is greated H = (0.2 X the area of forest above Conservation Threshold (G)) + the Threshold (E)</li> <li>(2) If the area of forest above the Conservation Threshold (G) is equal H = Existing Forest Cover (F)</li> <li><i>Forest Clearing Permitted Without Mitigation</i> <ul> <li>I = Existing Forest Cover (F) - Break Even Point (H)</li> </ul> </li> <li>Proposed Forest Clearing <ul> <li>J. Total Area of Forest to be Cleared</li> <li>K. Total Area of Forest to be Retained</li> <li>K = Existing Forest Cover (F) - forest to be cleared (J)</li> </ul> </li> <li>Planting Requirements <ul> <li>If the Total Area of Forest to be Cleared (K) is at or above the Breakeven Point (H), further calculations are necessary (L=0, M=0, N=0, P=0);</li> <li>If not, calculate the planting requirement below:</li> <li>L. <i>Reforestation for Clearing Above the Conservation Threshold</i> <ul> <li>(1) if the total area of forest to be cleared (J) X0.25: or</li> <li>(2) If the forest to be retained (K) is less than or equal to the Conservation Threshold</li> <li>(1) if Existing Forest Cover (F) is greater than Conservation Threshold</li> <li>(1) if Existing Forest Cover (F) is greater than Conservation Threshold</li> <li>(1) if Existing Forest (F) is less than or equal to the Conservation Threshold</li> <li>(1) if Existing Forest (F) is less than or equal to the Conservation Threshold</li> <li>(1) if Existing Forest (F) is less than or equal to the Conservation Threshold</li> <li>(1) if Existing Forest (F) is less than or equal to the Conservation Threshold</li> <li>(1) if Existing Forest (F) is less than or equal to the Conservation Threshold</li> <li>(2) If Existing Forest (F) is less than or equal to the Conservation Threshold</li> <li>(3) If Existing Forest (F) is less than or equal to the Conservation Threshold</li> <li>(4) If Existing Forest (F) is less than or equal to the Conservation Threshold</li> <li>(5) If Existing Forest (F) is less than or equal to the Conservation Thre</li></ul></li></ul></li></ul>		
<ul> <li>H = (0.2 X the area of forest above Conservation Threshold (G)) + the Threshold (E)</li> <li>(2) If the area of forest above the Conservation Threshold (G) is equal H = Existing Forest Cover (F)</li> <li>I. Forest Clearing Permitted Without Mitigation <ul> <li>I = Existing Forest Cover (F) - Break Even Point (H)</li> </ul> </li> <li>Proposed Forest Clearing</li> <li>J. Total Area of Forest to be Cleared</li> <li>K. Total Area of Forest to be Retained <ul> <li>K = Existing Forest Cover (F) - forest to be cleared (J)</li> </ul> </li> <li>Planting Requirements <ul> <li>If the Total Area of Forest to be Cleared (K) is at or above the Breakeven Point (H), further calculations are necessary (L=0, M=0, N=0, P=0);</li> <li>If not, calculate the planting requirement below:</li> <li>L. Reforestation for Clearing Above the Conservation Threshold <ul> <li>(1) if the total area of forest to be cleared (J) X0.25: or</li> <li>(2) If the forest to be retained (K) is less than or equal to the Conservation Threshold</li> <li>(1) if Existing Forest Cover (F) is greater than the Conservation for Clearing Below the Conservation Threshold</li> <li>(1) if Existing Forest Cover (F) is greater than Conservation Threshold</li> <li>(1) if Existing Forest Cover (F) is greater than Conservation Threshold</li> <li>(1) if Existing Forest Cover (F) is greater than Conservation Threshold</li> <li>(1) if Existing Forest Cover (F) is greater than Conservation Threshold</li> <li>(2) If Existing Forest (Cover (F) is greater than Conservation Threshold</li> <li>(3) if Existing Forest (F) is less than or equal to the Conservation Threshold</li> <li>(4) if Existing Forest (F) is less than or equal to the Conservation Threshold</li> <li>(5) If Existing Forest (F) is less than or equal to the Conservation Threshold</li> <li>(6) If Existing Forest (F) is less than or equal to the Conservation Threshold</li> <li>(7) If Existing Forest to be cleared (J).</li> </ul> </li> <li>N. Credit for Retention Above the Conservation Threshold</li> <li>If the</li></ul></li></ul>		· · ·
Threshold (E)(2) If the area of forest above the Conservation Threshold (G) is equal H = Existing Forest Cover (F)I.Forest Clearing Permitted Without Mitigation I = Existing Forest Cover (F) - Break Even Point (H)Proposed Forest Clearing J.Total Area of Forest to be Cleared K.K.Total Area of Forest to be Retained K = Existing Forest Cover (F) - forest to be cleared (J)Planting Requirements If the Total Area of Forest to be Cleared (K) is at or above the Breakeven Point (H), further calculations are necessary (L=0, M=0, N=0, P=0); If not, calculate the planting requirement below: L.L.Reforestation for Clearing Above the Conservation Threshold (1) if the total area of forest to be cleared (J) X0.25: or (2) if the forest to be retained (K) is less than or equal to the Conserv L = area of forest above Conservation Threshold (G) X0.25M.Reforestation for Clearing Below the Conservation Threshold (1) if Existing Forest Cover (F) is greater than Conservation Threshold (1) if Existing Forest Cover (F) is greater than Conservation Threshold (1) if Existing Forest Cover (F) is greater than Conservation Threshold (1) if Existing Forest Cover (F) is greater than Conservation Threshold (1) if Existing Forest (F) is less than or equal to the Conservation Threshold (1) if Existing Forest (F) is less than or equal to the Conservation Threshold (2) If Existing Forest (F) is less than or equal to the Conservation Threshold (1) if Existing Forest (F) is less than or equal to the Conservation Threshold (1) if Existing Forest (F) is less than or equal to the Conservation Threshold (2) If Existing Forest (F) is less than or equal to the Conservation Threshold (2) If Existing Forest (F) is less than or equal to the Conservation Threshold (2) If Existin		
<ul> <li>(2) If the area of forest above the Conservation Threshold (G) is equal H = Existing Forest Cover (F)</li> <li><i>Forest Clearing Permitted Without Mitigation</i> <ul> <li>I = Existing Forest Cover (F) - Break Even Point (H)</li> </ul> </li> <li>Proposed Forest Clearing <ul> <li>J. Total Area of Forest to be Cleared</li> <li>K. Total Area of Forest to be Retained</li> <li>K = Existing Forest Cover (F) - forest to be cleared (J)</li> </ul> </li> <li>Planting Requirements <ul> <li>If the Total Area of Forest to be Cleared (K) is at or above the Breakeven Point (H), further calculations are necessary (L=0, M=0, N=0, P=0);</li> <li>If not, calculate the planting requirement below:</li> <li>L. Reforestation for Clearing Above the Conservation Threshold <ul> <li>(1) if the total area of forest to be cleared (J) X 0.25: or</li> <li>(2) If the forest to be retained (K) is less than or equal to the Conservation Threshold</li> <li>(1) if Existing Forest Cover (F) is greater than Conservation Threshold</li> <li>(1) if Existing Forest Cover (F) is greater than Conservation Threshold</li> <li>(1) if Existing Forest Cover (F) is greater than Conservation Threshold</li> <li>(1) if Existing Forest Cover (F) is greater than Conservation Threshold</li> <li>(1) if Existing Forest Cover (F) is greater than Conservation Threshold</li> <li>(1) if Existing Forest Cover (F) is greater than Conservation Threshold</li> <li>(1) if Existing Forest (F) is less than or equal to the Conservation Threshold</li> <li>(1) if Existing Forest (F) is less than or equal to the Conservation Threshold</li> <li>(2) If Existing Forest (F) is less than or equal to the Conservation Threshold</li> <li>(2) If Existing Forest (F) is less than or equal to the Conservation Threshold</li> <li>(2) If Existing Forest (F) is less than or equal to the Conservation Threshold</li> <li>(2) If Existing Forest to be cleared (J).</li> </ul> </li> <li>N. Credit for Retention Above the Conservation Threshold</li> <li>If the area of forest to be retained (K) is greater</li></ul></li></ul>		
<ul> <li>H = Existing Forest Cover (F)</li> <li>I. Forest Clearing Permitted Without Mitigation <ul> <li>I = Existing Forest Cover (F) - Break Even Point (H)</li> </ul> </li> <li>Proposed Forest Clearing <ul> <li>J. Total Area of Forest to be Cleared</li> <li>K. Total Area of Forest to be Retained</li> <li>K = Existing Forest Cover (F) - forest to be cleared (J)</li> </ul> </li> <li>Planting Requirements <ul> <li>If the Total Area of Forest to be Cleared (K) is at or above the Breakeven Point (H), further calculations are necessary (L=0, M=0, N=0, P=0);</li> <li>If not, calculate the planting requirement below:</li> <li>L. Reforestation for Clearing Above the Conservation Threshold <ul> <li>(1) if the total area of forest to be cleared (J) X 0.25: or</li> <li>(2) If the forest to be retained (K) is less than or equal to the Conservation Threshold</li> <li>(1) if Existing Forest Cover (F) is greater than Conservation Threshold</li> <li>(1) if Existing Forest Cover (F) is greater than Conservation Threshold</li> <li>(1) if Existing Forest Cover (F) is greater than Conservation Threshold</li> <li>(1) if Existing Forest Cover (F) is greater than Conservation Threshold</li> <li>(1) if Existing Forest (F) is less than or equal to the Conservation Threshold</li> <li>(1) if Existing Forest (F) is less than or equal to the Conservation Threshold</li> <li>(1) if Existing Forest (F) is less than or equal to the Conservation Threshold</li> <li>(2) If Existing Forest (F) is less than or equal to the Conservation Threshold</li> <li>(2) If Existing Forest (F) is less than or equal to the Conservation Threshold</li> <li>(3) If the area of forest to be cleared (J).</li> </ul> </li> <li>N. Credit for Retention Above the Conservation Threshold</li> <li>If the area of forest to be retained (K) is greater than the Conservation Threshold</li> <li>If the area of forest to be retained (K) is greater than the Conservation Threshold</li> <li>(4) If the area of forest to be retained (K) as greater than the Conservation Threshold</li> <li< td=""><td></td><td>•••</td></li<></ul></li></ul>		•••
<ol> <li>Forest Clearing Permitted Without Mitigation         <ul> <li>I = Existing Forest Cover (F) - Break Even Point (H)</li> </ul> </li> <li>Proposed Forest Clearing         <ul> <li>J. Total Area of Forest to be Cleared</li> <li>K. Total Area of Forest to be Retained</li></ul></li></ol>	1	
<ul> <li>I = Existing Forest Cover (F) - Break Even Point (H)</li> <li>Proposed Forest Clearing</li> <li>J. Total Area of Forest to be Cleared</li> <li>K. Total Area of Forest to be Retained K = Existing Forest Cover (F) - forest to be cleared (J)</li> <li>Planting Requirements</li> <li>If the Total Area of Forest to be Cleared (K) is at or above the Breakeven Point (H), further calculations are necessary (L=0, M=0, N=0, P=0);</li> <li>If not, calculate the planting requirement below:</li> <li>L. Reforestation for Clearing Above the Conservation Threshold <ul> <li>(1) if the total area of forest to be retained (K) is greater than the Conservation Threshold (E), then</li> <li>L = the area of forest to be cleared (J) X 0.25: or</li> <li>(2) If the forest to be retained (K) is less than or equal to the Conserv</li> <li>L = area of forest above Conservation Threshold (G) X 0.25</li> </ul> </li> <li>M. Reforestation for Clearing Below the Conservation Threshold <ul> <li>(1) if Existing Forest Cover (F) is greater than Conservation Threshold</li> <li>(1) if Existing Forest Cover (F) is greater than Conservation Threshold</li> <li>(1) if Existing Forest Cover (F) is greater than Conservation Threshold</li> <li>(1) if Existing Forest (F) is less than or equal to the Conservation Threshold</li> <li>(2) If Existing Forest (F) is less than or equal to the Conservation Threshold</li> <li>(2) If Existing Forest (F) is less than or equal to the Conservation Threshold</li> <li>(2) If Existing Forest (F) is less than or equal to the Conservation Threshold</li> <li>(3) If the area of forest to be cleared (J).</li> </ul> </li> <li>N. Credit for Retention Above the Conservation Threshold</li> <li>(4) If the area of forest to be retained (K) is greater than the Conservation then N = K - E</li> <li>P. Total Reforestation Required P = L + M - N</li> <li>Q. Total Afforestation Required</li> </ul>	I.	
<ul> <li>J. Total Area of Forest to be Cleared</li> <li>K. Total Area of Forest to be Retained K = Existing Forest Cover (F) - forest to be cleared (J)</li> <li>Planting Requirements</li> <li>If the Total Area of Forest to be Cleared (K) is at or above the Breakeven Point (H), further calculations are necessary (L=0, M=0, N=0, P=0);</li> <li>If not, calculate the planting requirement below:</li> <li>L. Reforestation for Clearing Above the Conservation Threshold (1) if the total area of forest to be retained (K) is greater than the Conservation Threshold (E), then L = the area of forest to be retained (K) is greater than the Conservation Threshold (E), then L = the area of forest to be cleared (J) X 0.25: or (2) If the forest to be retained (K) is less than or equal to the Conserv L = area of forest above Conservation Threshold (G) X 0.25</li> <li>M. Reforestation for Clearing Below the Conservation Threshold (1) if Existing Forest Cover (F) is greater than Conservation Threshold (1) if Existing Forest Cover (F) is greater than Conservation Threshold (1) if Existing Forest Cover (F) is greater than Conservation Threshold (1) if Existing Forest (F) is less than or equal to the Conservation Threshold forest to be retained (K) is less than or equal to the Conservation Threshold (2) If Existing Forest (F) is less than or equal to the Conservation Threshold forest to be retained (J).</li> <li>N. Credit for Retention Above the Conservation Threshold If the area of forest to be retained (K) is greater than the Conservation then N = K - E</li> <li>P. Total Reforestation Required P = L + M - N</li> <li>Q. Total Afforestation Required</li> </ul>	1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -	
<ul> <li>K. Total Area of Forest to be Retained K = Existing Forest Cover (F) - forest to be cleared (J)</li> <li>Planting Requirements</li> <li>If the Total Area of Forest to be Cleared (K) is at or above the Breakeven Point (H), further calculations are necessary (L=0, M=0, N=0, P=0);</li> <li>If not, calculate the planting requirement below:</li> <li>L. Reforestation for Clearing Above the Conservation Threshold (1) if the total area of forest to be retained (K) is greater than the Conservation Threshold (E), then</li> <li>L = the area of forest to be retained (K) is greater than the Conservation Threshold (E), then</li> <li>L = area of forest to be retained (K) is less than or equal to the Conserv L = area of forest above Conservation Threshold (G) X 0.25</li> <li>M. Reforestation for Clearing Below the Conservation Threshold</li> <li>(1) if Existing Forest Cover (F) is greater than Conservation Threshold</li> <li>(1) if Existing Forest (F) is less than or equal to the Conservation Threshold</li> <li>(2) If Existing Forest (F) is less than or equal to the Conservation Threshold</li> <li>(1) if Existing Forest (F) is less than or equal to the Conservation Threshold</li> <li>(2) If Existing Forest (F) is less than or equal to the Conservation Threshold</li> <li>(3) If Existing Forest (F) is less than or equal to the Conservation Threshold</li> <li>(4) If Existing Forest (F) is less than or equal to the Conservation Threshold</li> <li>(5) If Existing Forest (F) is less than or equal to the Conservation Threshold</li> <li>(6) If Existing Forest to be cleared (J).</li> <li>N. Credit for Retention Above the Conservation Threshold</li> <li>If the area of forest to be retained (K) is greater than the Conservation then N = K - E</li> <li>P. Total Reforestation Required P = L + M - N</li> <li>Q. Total Afforestation Required</li> </ul>	Proposed Fe	orest Clearing
<ul> <li>K = Existing Forest Cover (F) - forest to be cleared (J)</li> <li>Planting Requirements</li> <li>If the Total Area of Forest to be Cleared (K) is at or above the Breakeven Point (H), further calculations are necessary (L=0, M=0, N=0, P=0);</li> <li>If not, calculate the planting requirement below:</li> <li>L. Reforestation for Clearing Above the Conservation Threshold <ul> <li>(1) if the total area of forest to be retained (K) is greater than the Conservation Threshold (E), then</li> <li>L = the area of forest to be cleared (J) X 0.25: or</li> <li>(2) If the forest to be retained (K) is less than or equal to the Conservation Threshold</li> <li>(1) if Existing Forest Cover (F) is greater than Conservation Threshold</li> <li>(1) if Existing Forest Cover (F) is greater than Conservation Threshold</li> <li>(1) if Existing Forest (F) is less than or equal to the Conservation Threshold</li> <li>(2) If Existing Forest (F) is less than or equal to the Conservation Threshold</li> <li>(3) If Existing Forest (F) is less than or equal to the Conservation Threshold</li> <li>(4) If Existing Forest (F) is less than or equal to the Conservation Threshold</li> <li>(5) If Existing Forest (F) is less than or equal to the Conservation Threshold</li> <li>(6) If Existing Forest (F) is less than or equal to the Conservation Threshold</li> <li>(7) If Existing Forest to be cleared (J).</li> </ul> </li> <li>N. Credit for Retention Above the Conservation Threshold If the area of forest to be retained (K) is greater than the Conservation then N = K - E</li> <li>P. Total Reforestation Required P = L + M - N</li> <li>Q. Total Afforestation Required</li> </ul>		
Planting Requirements         If the Total Area of Forest to be Cleared (K) is at or above the Breakeven Point (H), further calculations are necessary (L=0, M=0, N=0, P=0);         If not, calculate the planting requirement below:         L.       Reforestation for Clearing Above the Conservation Threshold         (1) if the total area of forest to be retained (K) is greater than the Conservation Threshold (E), then         L = the area of forest to be cleared (J) X 0.25: or         (2) If the forest to be retained (K) is less than or equal to the Conservation Threshold         (1) if Existing Forest Cover (F) is greater than or equal to the Conservation Threshold         (1) if Existing Forest Cover (F) is greater than Conservation Threshold         (1) if Existing Forest Cover (F) is greater than Conservation Threshold         (1) if Existing Forest (Cover (F) is greater than Conservation Threshold         (1) if Existing Forest (Cover (F) is greater than Conservation Threshold         (1) if Existing Forest (F) is less than or equal to the Conservation Threshold         (1) if Existing Forest (F) is less than or equal to the Conservation Threshold         (1) if Existing Forest (F) is less than or equal to the Conservation Threshold         (2) If Existing Forest (F) is less than or equal to the Conservation Threshold         (2) If Existing Forest to be cleared (J).         N.       Credit for Retention Above the Conservation Threshold         If the area of forest to be retained (K) is greater than	К.	Total Area of Forest to be Retained
<ul> <li>If the Total Area of Forest to be Cleared (K) is at or above the Breakeven Point (H), further calculations are necessary (L=0, M=0, N=0, P=0);</li> <li>If not, calculate the planting requirement below:</li> <li>L. Reforestation for Clearing Above the Conservation Threshold <ul> <li>(1) if the total area of forest to be retained (K) is greater than the Conservation Threshold (E), then</li> <li>L = the area of forest to be cleared (J) X 0.25: or</li> <li>(2) If the forest to be retained (K) is less than or equal to the Conservation Threshold (G) X 0.25</li> </ul> </li> <li>M. Reforestation for Clearing Below the Conservation Threshold <ul> <li>(1) if Existing Forest Cover (F) is greater than Conservation Threshold</li> <li>(1) if Existing Forest Cover (F) is greater than Conservation Threshold</li> <li>(1) if Existing Forest (F) is less than or equal to the Conservation Threshold</li> <li>(1) if Existing Forest (F) is less than or equal to the Conservation Threshold</li> <li>(2) If Existing Forest (F) is less than or equal to the Conservation Threshold</li> <li>(2) If Existing Forest (F) is less than or equal to the Conservation Threshold</li> <li>(2) If Existing Forest (F) is less than or equal to the Conservation Threshold</li> <li>(2) If Existing Forest (F) is less than or equal to the Conservation Threshold</li> <li>(2) If Existing Forest (F) is less than or equal to the Conservation Threshold</li> <li>(3) If Existing Forest (F) is less than or equal to the Conservation Threshold</li> <li>(4) If the area of forest to be cleared (J).</li> </ul> </li> <li>N. Credit for Retention Above the Conservation Threshold</li> <li>If the area of forest to be retained (K) is greater than the Conservation then N = K - E</li> <li>P. Total Reforestation Required P = L + M - N</li> <li>Q. Total Afforestation Required</li> </ul>		K = Existing Forest Cover (F) - forest to be cleared (J)
<ul> <li>further calculations are necessary (L=0, M=0, N=0, P=0);</li> <li>If not, calculate the planting requirement below:</li> <li>L. Reforestation for Clearing Above the Conservation Threshold <ul> <li>(1) if the total area of forest to be retained (K) is greater than the Conservation Threshold (E), then</li> <li>L = the area of forest to be cleared (J) X 0.25: or</li> <li>(2) If the forest to be retained (K) is less than or equal to the Conservation Threshold (G) X 0.25</li> </ul> </li> <li>M. Reforestation for Clearing Below the Conservation Threshold <ul> <li>(1) if Existing Forest Cover (F) is greater than Conservation Threshold</li> <li>(1) if Existing Forest Cover (F) is greater than Conservation Threshold</li> <li>(1) if Existing Forest (F) is less than or equal to the Conservation Threshold</li> <li>(2) If Existing Forest (F) is less than or equal to the Conservation Threshold</li> <li>(2) If Existing Forest (F) is less than or equal to the Conservation Threshold</li> <li>(2) If Existing Forest to be cleared (J).</li> </ul> </li> <li>N. Credit for Retention Above the Conservation Threshold</li> <li>If the area of forest to be retained (K) is greater than the Conservation Threshold</li> <li>If each of the area of forest to be cleared (J).</li> <li>N. Credit for Retention Above the Conservation Threshold</li> <li>If the area of forest to be retained (K) is greater than the Conservation then N = K - E</li> <li>P. Total Reforestation Required P = L + M - N</li> <li>Q. Total Afforestation Required</li> </ul>	<b>Planting Re</b>	quirements
<ul> <li>If not, calculate the planting requirement below:</li> <li>L. Reforestation for Clearing Above the Conservation Threshold <ul> <li>(1) if the total area of forest to be retained (K) is greater than the Conservation Threshold (E), then</li> <li>L = the area of forest to be cleared (J) X 0.25: or</li> <li>(2) If the forest to be retained (K) is less than or equal to the Conserv</li> <li>L = area of forest above Conservation Threshold (G) X 0.25</li> </ul> </li> <li>M. Reforestation for Clearing Below the Conservation Threshold <ul> <li>(1) if Existing Forest Cover (F) is greater than Conservation Threshold</li> <li>(1) if Existing Forest Cover (F) is greater than Conservation Threshold</li> <li>(1) if Existing Forest (K) is less than or equal to the Conservation Threshold</li> <li>(2) If Existing Forest (F) is less than or equal to the Conservation Threshold</li> <li>(2) If Existing Forest (F) is less than or equal to the Conservation Threshold</li> <li>(2) If Existing Forest to be cleared (J).</li> </ul> </li> <li>N. Credit for Retention Above the Conservation Threshold <ul> <li>If the area of forest to be retained (K) is greater than the Conservation Threshold</li> <li>If the area of forest to be retained (K) is greater than the Conservation Threshold</li> <li>If the area of forest to be retained (K) is greater than the Conservation Threshold</li> <li>If the area of forest to be retained (K) is greater than the Conservation Threshold</li> <li>If the area of forest to be retained (K) is greater than the Conservation then N = K - E</li> <li>P. Total Reforestation Required P = L + M - N</li> <li>Q. Total Afforestation Required</li> </ul> </li> </ul>		
<ul> <li>Reforestation for Clearing Above the Conservation Threshold         <ul> <li>(1) if the total area of forest to be retained (K) is greater than the Conservation Threshold (E), then</li> <li>L = the area of forest to be cleared (J) X 0.25: or</li> <li>(2) If the forest to be retained (K) is less than or equal to the Conserv</li> <li>L = area of forest above Conservation Threshold (G) X 0.25</li> </ul> </li> <li>M. Reforestation for Clearing Below the Conservation Threshold         <ul> <li>(1) if Existing Forest Cover (F) is greater than Conservation Threshold</li> <li>(1) if Existing Forest Cover (F) is greater than Conservation Threshold</li> <li>(1) if Existing Forest (K) is less than or equal to the Conservation Threshold</li> <li>(2) If Existing Forest (F) is less than or equal to the Conservation Threshold</li> <li>(2) If Existing Forest (F) is less than or equal to the Conservation Threshold</li> <li>(2) If Existing Forest (F) is less than or equal to the Conservation Threshold</li> <li>(2) If Existing Forest (F) is less than or equal to the Conservation Threshold</li> <li>(2) If Existing Forest (F) is less than or equal to the Conservation Threshold</li> <li>(3) If Existing Forest to be cleared (J).</li> </ul> </li> <li>N. Credit for Retention Above the Conservation Threshold         <ul> <li>If the area of forest to be retained (K) is greater than the Conservation then N = K - E</li> <li>P. Total Reforestation Required P = L + M - N</li> <li>Q. Total Afforestation Required</li> </ul> </li> </ul>		
<ul> <li>(1) if the total area of forest to be retained (K) is greater than the Conservation Threshold (E), then L = the area of forest to be cleared (J) X 0.25: or</li> <li>(2) If the forest to be retained (K) is less than or equal to the Conserv L = area of forest above Conservation Threshold (G) X 0.25</li> <li>M. Reforestation for Clearing Below the Conservation Threshold</li> <li>(1) if Existing Forest Cover (F) is greater than Conservation Threshold</li> <li>(1) if Existing Forest Cover (F) is greater than Conservation Threshold forest to be retained (K) is less than or equal to the Conservation Threshold</li> <li>(2) If Existing Forest (F) is less than or equal to the Conservation Threshold</li> <li>(2) If Existing Forest (F) is less than or equal to the Conservation Threshold</li> <li>(2) If Existing Forest to be cleared (J).</li> <li>N. Credit for Retention Above the Conservation Threshold</li> <li>If the area of forest to be retained (K) is greater than the Conservation then N = K - E</li> <li>P. Total Reforestation Required P = L + M - N</li> <li>Q. Total Afforestation Required</li> </ul>	If not, calcula	
<ul> <li>Conservation Threshold (E), then</li> <li>L = the area of forest to be cleared (J) X 0.25: or</li> <li>(2) If the forest to be retained (K) is less than or equal to the Conserv</li> <li>L = area of forest above Conservation Threshold (G) X 0.25</li> <li>M. Reforestation for Clearing Below the Conservation Threshold</li> <li>(1) if Existing Forest Cover (F) is greater than Conservation Threshold</li> <li>(1) if Existing Forest Cover (F) is greater than Conservation Threshold</li> <li>(2) If Existing Forest Cover (F) is greater than Conservation Threshold</li> <li>(3) If Existing Forest (K) is less than or equal to the Conservation Threshold</li> <li>(2) If Existing Forest (F) is less than or equal to the Conservation Threshold</li> <li>(2) If Existing Forest (F) is less than or equal to the Conservation Threshold</li> <li>(2) If Existing Forest to be cleared (J).</li> <li>N. Credit for Retention Above the Conservation Threshold</li> <li>If the area of forest to be retained (K) is greater than the Conservation then N = K - E</li> <li>P. Total Reforestation Required P = L + M - N</li> <li>Q. Total Afforestation Required</li> </ul>	L.	
<ul> <li>L = the area of forest to be cleared (J) X 0.25: or</li> <li>(2) If the forest to be retained (K) is less than or equal to the Conservation L = area of forest above Conservation Threshold (G) X 0.25</li> <li>M. Reforestation for Clearing Below the Conservation Threshold</li> <li>(1) if Existing Forest Cover (F) is greater than Conservation Threshold</li> <li>(1) if Existing Forest Cover (F) is greater than Conservation Threshold</li> <li>(1) if Existing Forest (K) is less than or equal to the Conservation Threshold</li> <li>(2) If Existing Forest (F) is less than or equal to the Conservation Threshold (E) - the forest to be retaine</li> <li>(2) If Existing Forest (F) is less than or equal to the Conservation Threshold (E) If Existing Forest (F) is less than or equal to the Conservation Threshold (E) If Existing Forest to be cleared (J).</li> <li>N. Credit for Retention Above the Conservation Threshold If the area of forest to be retained (K) is greater than the Conservation then N = K - E</li> <li>P. Total Reforestation Required P = L + M - N</li> <li>Q. Total Afforestation Required</li> </ul>		
<ul> <li>(2) If the forest to be retained (K) is less than or equal to the Conservent L = area of forest above Conservation Threshold (G) X 0.25</li> <li>M. Reforestation for Clearing Below the Conservation Threshold</li> <li>(1) if Existing Forest Cover (F) is greater than Conservation Threshold forest to be retained (K) is less than or equal to the Conservation Threshold forest to be retained (K) is less than or equal to the Conservation Threshold</li> <li>(2) If Existing Forest (F) is less than or equal to the Conservation Threshold (E) - the forest to be retained</li> <li>(2) If Existing Forest (F) is less than or equal to the Conservation Threshold (E) - the forest to be retained</li> <li>(2) If Existing Forest (F) is less than or equal to the Conservation Threshold (E) - the forest to be retained</li> <li>(2) If Existing Forest (F) is less than or equal to the Conservation Threshold (E) - the forest to be retained</li> <li>(2) If Existing Forest (F) is less than or equal to the Conservation Threshold (E) - the forest to be retained</li> <li>(3) If Existing Forest (b) is less than or equal to the Conservation Threshold (E) - the forest to be retained (J).</li> <li>N. Credit for Retention Above the Conservation Threshold If the area of forest to be retained (K) is greater than the Conservation then N = K - E</li> <li>P. Total Reforestation Required P = L + M - N</li> <li>Q. Total Afforestation Required</li> </ul>		
<ul> <li>L = area of forest above Conservation Threshold (G) X0.25</li> <li>M. Reforestation for Clearing Below the Conservation Threshold         <ul> <li>(1) if Existing Forest Cover (F) is greater than Conservation Threshold             forest to be retained (K) is less than or equal to the Conservation Threshold (E) - the forest to be retaine             (2) If Existing Forest (F) is less than or equal to the Conservation Threshold (2) If Existing Forest (F) is less than or equal to the Conservation Threshold (2) If Existing Forest (F) is less than or equal to the Conservation Threshold             M = 2.0 X Forest to be cleared (J).</li>             N. Credit for Retention Above the Conservation Threshold             If the area of forest to be retained (K) is greater than the Conservation             then N = K - E             P. Total Reforestation Required P = L + M - N             Q. Total Afforestation Required</ul></li> </ul>		
<ul> <li>M. Reforestation for Clearing Below the Conservation Threshold         <ul> <li>(1) if Existing Forest Cover (F) is greater than Conservation Threshold             forest to be retained (K) is less than or equal to the Conservation T             M = 2.0 X (the Conservation Threshold (E) - the forest to be retaine                  (2) If Existing Forest (F) is less than or equal to the Conservation Threshold                  (2) If Existing Forest (F) is less than or equal to the Conservation Threshold                  (2) If Existing Forest (F) is less than or equal to the Conservation Threshold                  (2) If Existing Forest to be cleared (J).</li> </ul> <ul> <li>N. Credit for Retention Above the Conservation Threshold             If the area of forest to be retained (K) is greater than the Conservation             then N = K - E             P. Total Reforestation Required P = L + M - N                  Q. Total Afforestation Required</li> </ul> </li> </ul>		
<ul> <li>(1) if Existing Forest Cover (F) is greater than Conservation Threshold forest to be retained (K) is less than or equal to the Conservation T M = 2.0 X (the Conservation Threshold (E) - the forest to be retaine (2) If Existing Forest (F) is less than or equal to the Conservation Thr M = 2.0 X Forest to be cleared (J).</li> <li>N. Credit for Retention Above the Conservation Threshold If the area of forest to be retained (K) is greater than the Conservation then N = K - E</li> <li>P. Total Reforestation Required P = L + M - N</li> <li>Q. Total Afforestation Required</li> </ul>	м	• •
<ul> <li>forest to be retained (K) is less than or equal to the Conservation T M = 2.0 X (the Conservation Threshold (E) - the forest to be retaine (2) If Existing Forest (F) is less than or equal to the Conservation Thr M = 2.0 X Forest to be cleared (J).</li> <li>N. Credit for Retention Above the Conservation Threshold If the area of forest to be retained (K) is greater than the Conservation then N = K - E</li> <li>P. Total Reforestation Required P = L + M - N</li> <li>Q. Total Afforestation Required</li> </ul>	IVI.	
<ul> <li>M = 2.0 X (the Conservation Threshold (E) - the forest to be retaine (2) If Existing Forest (F) is less than or equal to the Conservation Thr M = 2.0 X Forest to be cleared (J).</li> <li>N. Credit for Retention Above the Conservation Threshold If the area of forest to be retained (K) is greater than the Conservation then N = K - E</li> <li>P. Total Reforestation Required P = L + M - N</li> <li>Q. Total Afforestation Required</li> </ul>		
<ul> <li>(2) If Existing Forest (F) is less than or equal to the Conservation Thr M = 2.0 X Forest to be cleared (J).</li> <li>N. Credit for Retention Above the Conservation Threshold If the area of forest to be retained (K) is greater than the Conservation then N = K - E</li> <li>P. Total Reforestation Required P = L + M - N</li> <li>Q. Total Afforestation Required</li> </ul>		
<ul> <li>M = 2.0 X Forest to be cleared (J).</li> <li>N. Credit for Retention Above the Conservation Threshold If the area of forest to be retained (K) is greater than the Conservation then N = K - E</li> <li>P. Total Reforestation Required P = L + M - N</li> <li>Q. Total Afforestation Required</li> </ul>		
<ul> <li>N. Credit for Retention Above the Conservation Threshold If the area of forest to be retained (K) is greater than the Conservation then N = K - E</li> <li>P. Total Reforestation Required P = L + M - N</li> <li>Q. Total Afforestation Required</li> </ul>		
If the area of forest to be retained (K) is greater than the Conservationthen N = K - EP.Total Reforestation Required P = L + M - NQ.Total Afforestation Required	N	
then N = K - EP.Total Reforestation Required P = L + M - NQ.Total Afforestation Required		
P.Total Reforestation Required P = L + M - NQ.Total Afforestation Required	ан алан Алан алан	
Q. Total Afforestation Required	Ρ.	
	· .	(1) If Existing Forest Cover (F) is less than the Afforestation Threshold
Q = the Afforestation Threshold (D) - the Existing Forest Cover (F) R. Total Planting Requirement $R = P + Q$	-	

REFORESTATION PLANT LIST								
QTY.	SCIENTIFIC/ COMMON NAME	SIZE	ROOT	REMARKS				
5	LIRIODENDRON TULIPIFERA / TULIP TREE	· · · · · · · · · · · · · · · · · · ·		•				
5	ACER RUBRUM / RED_MAPLE			FULL CROWN				
7 *	QUERCUS RUBRA / RED OAK	1" CAL.	B&B	PLANT 15' O.C. RANDOM PATTERN				
6	QUERCUS PALUSTRIS PIN OAK							
· 7	NYSSA SYLVATICA / BLACK GUM	-						
9	JUNIPERUS VIRGINIANA / EASTERN RED CEDAR		CONT.	PLANT 11' O.C.				
8	PINUS VIRGINIANA / VIRGINIA PINE	5 mi.		RANDOM PATTERN				
- 8	AMELANCHIER CANADENSIS / SHADBLOW SERVICEBERRY	3' HT.	CONT.	PLANT 11' O.C.				
9	CERCIS CANADENSIS / EASTERN REDBUD			RANDOM PATTERN				



# SEQUENCE OF OPERATIONS

#### PRE-CONSTRUCTION SITE PREPARATION

1. FIELD STAKE LIMITS OF DISTURBANCE (L.O.D.) AT 25' INTERVALS.

2. REVIEW L.O.D. IN FIELD AND ADJUST IF PRACTICAL. 3. INSTALL TREE PROTECTION FENCE AT THE LO.D. AND IMPLEMENT TREE PROTECTION

METHODS AS SHOWN. 4. CLEAR AND GRUB AS NECESSARY TO FACILITATE ROOT PRUNING TO A DEPTH OF

2-3 FEET WITHIN THE LIMITS OF THE PROPOSED REFORESTATION AREA. CLEAR REMAINING TREES IN A WAY THAT "SAVE TREES' ARE NOT DISTURBED. GRIND STUMPS 12" IN DIAMETER AND LARGER THAT ARE WITHIN 25' OF THE L.O.D.

5. DO NOT ATTEMPT TO SAVE TREES WITHIN 25' FROM THE L.O.D. UNLESS, IN THE OPINION OF THE CONSULTING ARBORIST, THEY HAVE A 75% CHANCE OR BETTER OF SURVIVAL.

6. PRUNE AND FERTILIZE DESIRABLE 'EDGE TREES' AS PER CONSULTING ARBORIST'S RECOMMENDATIONS.

THERE SHALL BE NO STAGING, STORAGE, OR STOCKPILING OF MATERIALS WITHIN THE NONTIDAL WETLANDS OR 25' NONTIDAL WETLANDS BUFFER.

8. REMOVE OR TREAT WITH AN ACCEPTABLE METHOD, NOXIOUS PLANT MATERIAL SUCH AS MULTIFLORA ROSE, TEARTHUMB, AND JOHNSON GRASS BEFORE INSTALLING REFORESTATION PLANTS.

9. INSTALL TREE PROTECTION SIGNAGE.

10. STABILIZE ANY DISTURBED AREAS USING THE SPECIFIED STABILIZATION MIXTURE WHICH ALLOWS FOR NATURAL REVEGETATION OF FOREST COMMUNITIES.

FOREST CONSERVATION SEQUENCE OF OPERATIONS

1. Prior to beginning any grading operations on this site or on a respective lot, there shall be a preconstruction meeting held at the site which is to include the Contractor and representatives from Patton Harris Rust & Associates, Inc. (PHR+A). The Howard County Department of Planning and Zoning (DPZ) and the owner will be notified by the Contractor as to the time and place of the field meeting, should they wish to send a representative. The purpose of this meeting will be to review the approved FCP and to field verify the correct Limits of Disturbance (LOD).

2. The Limits of Disturbance (LOD) pertinent to the preservation of wooded areas shall be staked in the field with final adjustments being made as necessary to insure adequate protection of the Critical Root Zone of trees designated for retention. Stakes to be used shall be those specified for the "TREE PROTECTION DEVICE" to which approved protective material will be attached. Alternate means of defining the LOD may be used if approved by the DPZ.

3. All forest retention areas shall be protected by highly visible, well anchored temporary protection devices (see detail), which shall be securely in place prior to any clearing or grading operations.

4. Grading operations or other construction operations which could dislodge or otherwise damage the protective devices shall be avoided along the edges of the LOD lines if possible. Any protective devices which are damaged during site construction operations shall be properly repaired immediately by the Contractor.

5. After site grading, utility access road, and driveway construction have been completed, all trees adjacent to the LOD line shall be inspected for indications of crown die—back (summer indicator), damage within respective critical root zones or any dead wood or other conditions which might be hazardous to pedestrians, buildings, utility lines vehicular access ways or parked vehicles.

6. Should there be evidence of any damage to tree trunks, branches or the critical root zone of trees within the protected areas, or to isolated specimen trees to be preserved, the damage shall be examined within a period of two (2) days from the date of observance by a licensed tree care professional. Exposed roots should be covered immediately to a depth of 6 - 8inches with soil, preferably mixed with 50% peat moss or leaf mold.

7. Remove damaged, dead or dying trees or limbs only if the trees or limbs pose an immediate safety hazard to buildings, utility lines, vehicles, or access and egress drives or pedestrian areas. Trees designated for pruning or removal shall be pruned or removed using equipment and methods which will not damage or destroy adjacent large trees or understory trees or shrubs designated for retention.

8. All temporary forest protection devices will be carefully removed after all general construction, necessary tree surgery, removal of debris, etc. regrading and reseeding of sediment and erosion control disturbance have been completed and acceptance and approval of the work and site conditions have been given by the DPZ.

AFFORESTATION / REFORESTATION PLANTING SEQUENCE OF OPERATIONS

1. The Contractor(s) shall inform the Howard County Department of Planning and Zoning (DPZ) when planting operations are to begin.

2. Determine storage areas for materials and equipment. Obtain approval of location from Owner and the DPZ.

3. Prior to beginning any planting, the soils within the area(s) designated for Afforestation or Reforestation shall be analyzed regarding the following features: nutrient content, organic matter, structure, pH and cation exchange capacity. Soils that have been actively farmed may require evaluation for pesticide or herbicide contamination. Such analysis may be performed by the local Soil Conservation Service or Agricultural Extension Service. A minimum of three random samples should be collected for the analysis. An assessment of soil moisture should also be made at this time. Corrective measures shall be made in accordance with analysis results and recommendations.

. The Contractor, assisted by a Representative of Patton Harris Rust & Associates, shall stake (or wire-flag) planting area limits and plant locations in accordance with the plan and details.

5. Provide and plant all trees of the species and sizes specified and in accordance with the detail(s) shown on the Forest Conservation Plans, unless otherwise directed by the DPZ.

6. At the completion of planting, remove all excess materials and miscellaneous debris from the respective area(s) of work.

7. Protection Devices - to prevent damage within planted areas, all reforestation and/or afforestation sites must be posted with appropriate signs and the area(s) delineated with appropriate protective fencing. No construction equipment nor storage of materials shall be permitted within the planted areas. Details are shown on the Forest Conservation Plans regarding typical sign size and wording. No pedestrian traffic shall be allowed within the protected areas.

8. Attachment of signs or any other objects to trees within the protected areas is prohibited.

NOTES:

. DO NOT HEAVILY PRUNE THE TREE AT PLANTING. PRUNE ONLY CROSSOVER LIMBS, CO-DOMINANT LEADERS, AND BROKEN OR DEAD BRANCHES. SOME INTERIOR TWIGS AND LATERAL BRANCHES MAY BE PRUNED; HOWEVER, DO NOT REMOVE THE TERMINAL BUDS OF BRANCHES THAT EXTEND TO THE EDGE OF THE CROWN.

2. STAKE TREES AS SHOWN.

3. DIG PLANTING PIT TWICE AS WIDE AS THE DIAMETER OF THE TOP OF THE ROOT BALL WITH A MINIMUM PLANTING PIT DIAMETER OF 5'. 4. TIGHTEN WIRE OR CABLE ONLY ENOUGH TO KEEP FROM SLIPPING. ALLOW FOR SOME TRUNK MOVEMENT. PLASTIC HOSE SHALL BE LONG ENOUGH TO ACCOMMODATE 1.5 IN. OF GROWTH AND BUFFER ALL BRANCHES FROM THE WIRE.

5. TUCK ANY LOOSE ENDS OF THE WIRE OR CABLE INTO THE WIRE WRAP SO THAT NO SHARP WIRE ENDS ARE EXPOSED.

INSTALL TWO STAKES ON OPPOSITE SIDES OF TREE, PARALLEL TO THE DIRECTION OF THE PREVAILING WINTER WINDS, UNLESS OTHERWISE DIRECTED BY LANDSCAPE ARCHITECT. ALL STAKES SHALL BE DRIVEN OUTSIDE THE EDGE OF THE ROOT BALL INTO PREFERABLY UNEXCAVATED

NOT TO SCALE

NOTES:

1. DO NOT HEAVILY PRUNE THE SHRUB AT PLANTING. PRUNE ONLY BROKEN, DAMAGED, OR diseased BRANCHES.

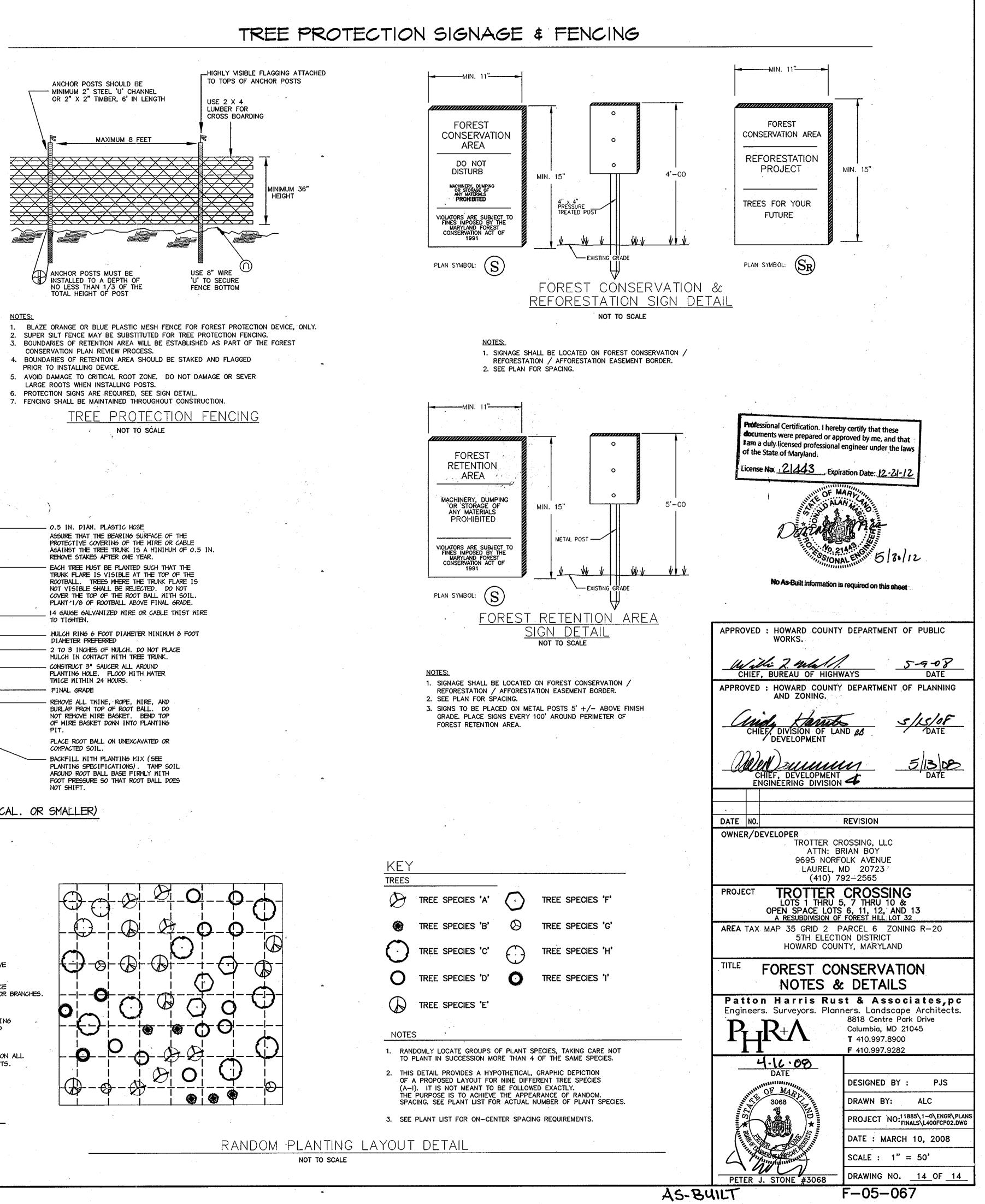
2. DIG PLANTING PIT 24" WIDER THAN THE DIAMETER OF THE TOP OF THE ROOT BALL WITH A MINIMUM PLANTING PIT DIAMETER OF 36".

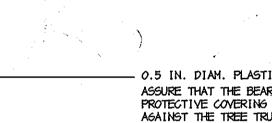
3. FOR B4B SHRUBS: REMOVE ALL TWINE, ROPE, AND BURLAP FROM TOP OF ROOT BALL.

4. ALL CONTAINERS SHALL BE REMOVED BEFORE INSTALLATION.

CONSTRUCT 3" SAUCER RIM ALL AROUND. FLOOD WITH WATER TWICE WITHIN THE 24 HOURS AFTER PLANTING .- e and the second second

INDIVIDUAL SHRUB PLANTING DETAIL - B&B AND CONTAINER SHRUBS NOT TO SCALE





DECIDUOUS B&B TREE PLANTING DETAIL (TREES 3" CAL. OR SMALLER)

