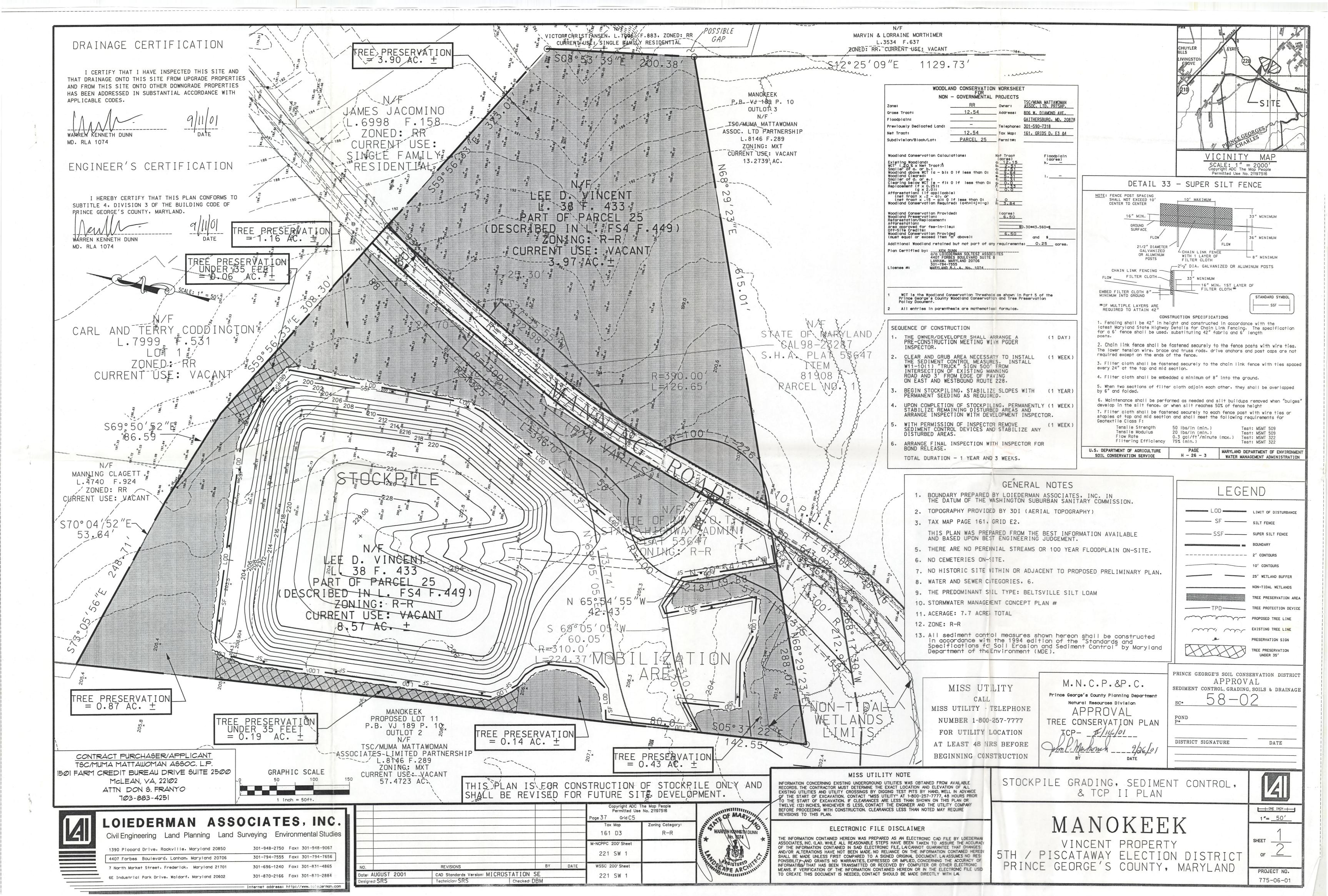
SCANNING TYPE 2 TREE CONSERVATION PLAN CHECKLIST/DATA FORM

TCP Number: TCP2	2 - <u>116 - 01</u>	Kevis	ion Number:	<u> </u>		Date	Accepted	1:			
Case Name:	MANOKEEK										
Parent Case:											
Case Status: 🕢 Ap	proved	Pending	Dormant	Withd	rawn	Deni	ed				
Data Source:	File	Microfilm		wco:	1989	<u> </u>	199	93		2010)
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PLANS REQUIRED F	OR REVIE	W BUT NOT	CERTIFIED				~~~~		Stame	-	
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Stormwater Managemen	it Concept 1	Letter and Plan									
UNAPPROVED PLAN											
TCP2 – Unapproved TC	P2 (if case of	lenied, pending	g withdrawn or	dormant)							
APPROVED PLANS											
TCP2 – Approved Type	2 Tree Cons						1				
REPORTS AND STUD		. 1/ 1	,				 				
Forest Stand Delineation				1	3-81-31-31						
Geotechnical (includes N											100
Noise Study (includes A			odel worksheet)	1 20		\perp				
Wetland Delineation (Report and/or Plan) Floodplain (includes letter from DPIE, plan, study/report)											
Other (bonding/fee form											
Other (boliding/lee form	, reforestatio	on certification	, violation, etc.								
ADMINISTRATIVE											
Application Form (include		on, checklist,	Sub 25 Varianc	e w/ justific	ation)						
EPS Mapping (NRI and/				1 - 7 - 7 - 7							
PMA Letter of Justification (includes letter and exhibits)									1		
Variance Request		1									
TCP QC Worksheet								-			
Referral Response (inclu	des memos/	letters from DI	PIE, DPWT, SO	CD, etc)							
Reviewer's notes (includ	es EPS men	os, point by p	oint responses)								
Woodland Conservation		ocument									
WC Bank Transfer Certificate											
Other											
CORRESPONDENCE											
General Correspondence	(emails and	l other letters f	rom annlicant	municinalit	iec recida	ents etc)					
*N/A: Not part of or requ			iom applicant,	mumerpant		ints, etc)					
SCANNING COMMEN		e review									
SCANNING CUMMEN	112										
BCH -											



VEGETATIVE STABILIZATION PERMANENT AND TEMPORARY SEEDING, SODDING AND MULCHING SITE PREPARATION VI. TURFGRASS ESTABLISHMENT THIS INCLUDES LAWNS, PARKS, PLAYGROUNDS, AND COMMERCIAL SITES WHICH WILL RECIVE A MEDIUM TO HIGH LEVEL OF MAINTENANCE. AREAS TO RECEIVE SEED SHALL BE TILLED BY DISCING OR BY OTHER APPROVED METHODS TO A DEPTH OF 3 TO 5 INCHES, LEVELED AND RAKED TO PREPARE A PROPER SEEDBED. STONES AND DEBRIS OVER 1-1/2 INCHES IN DIAMETER SHALL BE REMOVED. THE RESULTING SEEDBED SHALL BE IN SUCH CONDITION THAT FUTURE MOWING OF GRASSES WILL POSE NO DIFFICULTY. USE CERTIFIED MATERIAL AND CHOOSE A TURFGRASS MIXTURE FROM PAGE G-20-11 OF THE "1994 MARYLAND STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL" OR SELECT FROM THE LIST IN THE MOST CURRENT UNIVERSITY PERMANENT OR TEMPORARY VEGETATION SHALL BE DIVERSIONS, GRADE STABILIZATION STRUCTURES, BERMS. WATERWAYS, SEDIMENT CONTROL BASINS, AND ALL SLOPES GREATER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1) AND WITHIN 14 DAYS FOR ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE. MULCHING MAY ONLY BE USED ON DISTURBED AREAS AS TEMPORARY COVER WHERE VEGETATION IS NOT FEASIBLE OR WHERE SEEDING CANNOT BE COMPLETED BECAUSE OF WEATHER. SELECT FROM THE LIST IN THE MOST CURRENT UNIVERSITY OF MARYLAND PUBLICATION, AGRONOMY MIMEO #77, "TURF-GRASS CULTIVAR, RECOMMENDATIONS FOR MARYLAND." SEEDBED PREPARATION AND SEEDING APPLICATION 5 INCHES BY MEANS OF SUITABLE AGRICULTURAL OR CONSTRUCTION EQUIPMENT SUCH AS DISC HARROWS. CHISEL PLOWS, OR RIPPERS MOUNTED ON CONSTRUCTION EQUIPMENT. INCORPORATED THE LIME AND FERTILIZER INTO THE TOP 3 TO 5 INCHES OF THE SOIL BY DISCING ALL SEEDINGS REQUIRE MULCHING. ALSO MULCH DURING NON-SEEDING DATES UNTIL SEEDING CAN BE DONE. OR BY OTHER SUITABLE MEANS. ROUGH AREAS SHOULD

MULCH SHALL BE UNROTTED. UNCHOPPED, SMALL GRAIN STRAW APPLIED AT A RATE OF 2 TONS/ACRE OR 90 LBS/1000 SQ. FT. (2 BALES). IF A MULCH ANCHORING TOOL IS USED, APPLY 2.5 TONS/ACRE. MULCH MATERIALS SHALL BE RELATIVELY FREE OF ALL KINDS OF WEEDS AND SHALL BE FREE OF PROHIBITED NOXIOUS WEEDS. SPREAD MULCH UNIFORMLY, MECHANICALLY OR BY HAND, TO A NOT BE ROLLED OR DRAGGED SMOOTH, BUT LEFT IN A ROUGHENED CONDITION. STEEP SLOPES GREATER THAN 3:1 SHOULD BE TRACKED BY A DOZER, LEAVING THE SOIL IN AN IRREGULAR CONDITION WITH RIDGES RUNNING PARALLEL TO THE CONTOUR OF THE SLOPE. THE TOP 1 TO 3 INCHES OF SOIL SHOULD BE LOOSE AND FRIABLE. PERMANENT COVER MAY REQUIRE AN APPLICATION OF TOPSOIL IF SO, IT MUST MEET THE REQUIREMENTS SET FORTH IN SECTION "21.0 STANDARDS AND SPECIFICATIONS FOR TOPSOIL" FROM THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT DEPTH OF 1-2 INCHES, MULCH ANCHORING SHALL BE ACCOMPLISHED IMMEDIATELY AFTER MULCH PLACEMENT TO MINIMIZE LOSS BY WIND OR WATER. THIS MAY BE DONE BY MULCH NETTINGS, MULCH ANCHORING TOOL, WOOD CELLULOSE FIBER, OR LIQUID MULCH BINDERS.

SOIL AMENDMENTS

ITROGEN

THE TIME OF SEEDING.

SEDIMENT CONTROL PRACTICE SEEDING

P₂O₅

GROUND LIMESTONE

2 TONS/AC

SOIL TESTS SHALL BE MADE ON SITES OVER FIVE ACRES TO DETERMINE THE EXACT REQUIREMENTS FOR BOTH LIME AND FERTILIZER. FOR SITES UNDER 5 ACRES, IN LIEU OF A SOIL TEST, APPLY THE FOLLOWING:

FOR LOW MAINTENANCE AREAS APPLY 150 LBS/AC

UREAFORM FERTILIZER (38-0-0) AT 3.5 LBS/1000 SQ. FT. IN ADDITION TO THE ABOVE FERTILIZER AT

SELECT A SEEDING MIXTURE FROM TABLES 25 OR 26 IN SECTION G-20 OF THE "1994 MARYLAND STANDARDS AND

SEDIMENT CONTROL PLAN USING APPROPRIATE CHART BELOW.
NOTE: IF SEDIMENT CONTROL PRACTICES ARE IN FOR
LONGER THAN 12 MONTHS, PERMANENT SEEDING IS REQUIRED.

SELECT A SEEDING MIXTURE FROM APPROPRIATE TABLE 25

OR 26 IN SECTION G-20 OF THE "1994 MARYLAND STAND-ARDS AND SPECIFICATIONS FOR SOIL EROSION AND SED-IMENT CONTROL. DOCUMENT SEEDING ON THE EROSION

AND SEDIMENT CONTROL PLAN USING APPROPRIATE CHART

SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL." DOCUMENT SEEDING ON THE EROSION AND

TEMPORARY/PERMANENT SEEDING MIXTURES AND RATES

2 LBS/1000 SQ. FT. (87 LBS/AC) 4 LBS/1000 SQ. FT. (175 LBS/AC)

4 LBS/1000 SQ. FT. (175 TONS/AC)

APPLY WOOD CELLULOSE FIBER AT A DRY WEIGHT OF 1,500 LBS/ACRE. IF MIXED WITH WATER, USE 50 LBS. OF WOOD CELLULOSE FIBER PER 100 GALLONS OF WATER. IOUID BINDER SHOULD BE APPLIED HEAVIER AT THE EDGE, WHERE WIND CATCHES MULCH IN VALLEYS, AND ON CREST OF BANKS. THE REMAINDER OF THE AREA SHOULD APPEAR UNIFORM AFTER BINDER APPLICATION. APPLY RATES RECOMMENDED BY THE MANUFACTURER TO ANCHOR OVER THE MULCH ACCORDING TO MANUFACTURER'S

VIII.SODDING CLASS OF TURFGRASS SOD SHALL BE MARYLAND OR VIRGINIA STATE CERTIFIED OR MARYLAND OR VIRGINIA STATE APPROVED SOD. SOD SHALL BE HARVESTED, DEL-IVERED, AND INSTALLED WITHIN A PERIOD OF 36 HOURS SOD IS TO BE LAID WITH THE LONG EDGES PARALLEL TO THE CONTOUR USING STAGGERED JOINTS WITH ALL ENDS TIGHTLY ABUTTED AND NOT OVERLAPPING. SOD SHALL BE ROLLED AND THOROUGHLY WATERED AFTER INSTALLATION.
DAILY WATERING TO MAINTAIN 4 INCH DEPTH OF MOIST-URE FOR THE FIRST WEEK IS REQUIRED IN THE ABSENCE OF RAINFALL. SOD IS NOT TO BE APPLIED ON FROZEN

IX. MAINTENANCE IRRIGATE - APPLY MINIMUM 1" OF WATER EVERY 3 TO 4 DAYS DEPENDING ON SOIL TEXTURE, WHEN SOIL MOISTURE BECOMES DEFICIENT TO PREVENT LOSS OF STAND OF PRO-

REPAIRS - IF STAND PROVIDES BETWEEN 40% AND 94% GROUND COVERAGE, OVERSEED AND FERTILIZE USING HALF OF THE RATES ORIGINALLY APPLIED. IF STAND PROVIDES LESS THAN 40% COVERAGE, REESTABLISH STAND FOLLOWING ORIGINAL RATES AND PROCEDURES.

SEED MIXTURE (HARDINESS ZONE 74) (FROM TABLE 25)						FERTILIZER RATE (10-20-20)			
NO.	SPECIES	APPLICATION RATE (LB/AC)		SEED ING DEPTHS	N	P205	K20	L I ME RATE	
1	ANNUAL RYEGRASS	50	2/1-4/30 BY 11/1	1/4" -1/2"	(O D ((4.15/	(4.15.4	0. TONG (40	
2	RYE	140	2/1~4/30 BY 11/1	1" - 2"	(2 LB/ 1000 SF)	(4 LB/ 1000 SF)	(4·LB/ 1000 SF)	2 TONS/AC (100 LB/ 1000 SF)	
3	MILLET	50	5/1 - 8/14	1/2"	=				

		Т	EMPORARY SE	EDING SUMMAF	RY		
	SEED	MIXTURE (HARD FROM TABLE	FERTILIZER RATE (10-10-10)	L I ME RATE			
NO.	SPECIES	APPLICATION RATE (LB/AC)	SEED ING DATES	SEED ING DEPTHS	(10-10-10)		
1	SEE TABLE 25 MIX #1	150	3/1 - 5/15 8/15 - 11/15	-		A TOUS (10	
2	SEE TABLE 25	SEE MIX #3	3/1 - 5/15 8/15 - 11/15	-	(15 LB/1000 SF)	2 TONS/AC (100 LB/1000 SF)	
3	SEE TABLE 25 MIX #7	SEE MIX #7 RATES	3/1 - 11/15	-			

USE OF THIS INFORMATION DOES NOT PRECLUDE MEETING ALL OF THE REQUIREMENTS OF THE 1994 MARYLAND STAND-ARDS AND SPECIFICATIONS FOR SOIL EROSION AND SED-

CONSULTANT'S CERTIFICATION

OWNER'S/DEVELOPER'S CERTIFICATION

"I/WE HEREBY CERTIFY THAT I HAVE REVIEWED THIS EROSION AND SEDIMENT CONTROL PLAN AND THAT ALL CLEARING, GRADING, CONSTRUCTION, AND/OR DEVELOPMENT WILL BE DONE PURSUANT TO THIS PLAN AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCH AT A MARYLAND DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT."

1390 Piccard Drive, Rockville, Maryland 20850

4407 Forbes Boulevard, Lanham, Maryland 20706

7 North Market Street, Frederick, Maryland 21701

Industrial Park Drive, Waldorf, Maryland 20602

MD. REG. NO. ____RLA 1074

OIEDERMAN ASSOCIATES, INC

Civil Engineering Land Planning Land Surveying Environmental Studies

PGVEGST

EDGE MANAGEMENT NOTES

All non-native, noxious or invasive species may be selectively cleared from tree save areas by cutting at ground level with a saw or clippers and then immediately applying a herbicide to the cut surface in accordance with the method approved for that registered heribicide. Below is a list of species fitting this classification. Garlic Mustard Tall Fescue K31 Fescue Sericea Lespedeza

19.0 STANDARDS AND SPECIFICATIONS

LAND GRADING

CUT AND FILL SLOPES THAT ARE TO BE STABILIZED WITH GRASSES SHALL NOT BE STEEPER TAN 2:1. (WHERE THE SLOPE IS TO BE MOWED THE SLOPE SHOULD BE NO STEEPER THAN 3:1; 4:1 IS PREFERRED BECAUSE OF SAFETY FACTORS RELATED TO MOWING STEEP SLOPES.) SLOPES EXCEEDING 2:1 SHALL REQUIRE SPECIAL DESIGN AND STABILIZATION CONSIDERATIONS THAT SHALL BE ADEQUATELY SHOWN ON THE PLANS.

REVERSE BENCHES SHALL BE PROVIDED WHENEVER THE VERTICAL INTERVAL (HEIGHT) OF ANY 2:1 SLOPE EXCEEDS 20-FEET; FOR 3:1 SLOPE IT SHALL BE INCREASED TO 30-FEET AND FOR 4:1 TO 40-FEET. BENCHES SHALL BE LOCATED TO DIVIDE THE SLOPE FACE AS EQUALLY AS POSSIBLE AND SHALL CONVEY THE WATER TO STABLE OUTLET. SOILS SEEPS, ROCK OUTCROPS, ETC., SHALL ALSO BE TAKE INTO CONSIDERATION WHEN DESIGNING BENCHES.

. BENCHES SHALL BE A MINIMUM OF 6-FEET WIDE TO PROVIDE FOR EASE OF MAINTENANCE.

BENCHES SHALL BE DESIGNED WITH A REVERSE SLOPE OF 6:1 OR FLATTER TO THE TOE OF THE UPPER SLOPE AND WITH A MINIMUM OF 1-FOOT IN DEPTH. BENCH GRADIENT TO THE OUTLET SHALL BE BETWEEN 2 PERCENT AND 3 PERCENT. UNLESS ACCOMPANIED BY

THE FLOW LENGTH WITHIN A BENCH SHALL NOT EXCEED 800-FEET UNLESS ACCOMPANIED BY APPROPRIATE DESIGN AND COMPUTATIONS. FOR FLOW CHANNEL STABILIZATION SEE TEMPORARY SWALE.

THE FACE OF THE SLOPE WILL BE PROTECTED B SPECIAL EROSION CONTROL MATERIALS, TO INCLUDE, BUT NOT LIMITED TO: APPROVED VEGETATIVE STABILIZATION PRACTICES (SEE SECTION G), RIPRAP OR OTHER APPROVED STABILIZATION METHODS.

CUT SLOPES OCCURRING IN RIPABLE ROCK SHALL BE SERRATED AS SHOWN ON THE FOLLOWING DIAGRAM. THESE SERRATIONS SHALL BE MADE WITH CONVENTIONAL EQUIPMENT AS THE EXCAVATION IS MADE. EACH STEP OR SERRATION SHALL BE CONSTRUCTED ON THE CONTOUR AND WILL HAVE STEPS CUT AT NOMINAL 2-FOOT INTERVALS WITH NOMINAL 3-FOOT HORIZONTAL SHELVES. THESE STEPS WILL VARY DEPENDING ON THE SLOPE RATIO OR THE CUT SLOPE. THE NOMINAL SLOPE LINE IS 1:1. THESE STEPS WILL WEATHER AND ACT TO HOLD MOISTURE. LIME, FERTILIZER, AND SEED THUS PRODUCING A MUCH OUICKER AND LONGER LIYED VEGETATIVE COVER AND BETTER SLOPE STABILIZATION. OVERLAND FLOW SHALL BE DIVERTED FROM THE TOP OF ALL SERRATED CUT SLOPES AND CARRIED TO A SUITABLE CUTLET.

STOCKPILES, BORROW AREAS, AND SPOIL SHALL BE SHOWN ON THE PLANS AND SHALL BE SUBJECT TO THE PROVISIONS OF THIS STANDARD AND SPECIFICATIONS.

Common Reed Lesser Celandine Climbing Euonymus, English Ivy Japanese Barberr Winged Euonymus Bamboo Multiflora rose Coralberry White Mulberry

Japanese Knotweed Porceline Berry Wintercreeper Japanese Periwinkle Russian Olive Privet Common Buckthorn Wineberry Norway Maple Empress Tree

Mile-a-minute Vine Cinnamon Vine Honeysuckle Kudzu Westeria Autumn Olive Bush Honeysuckles European Buckthorn Japanese Spiraea Tree of Heaven Sweet Cherry

In addition the following native species may be cleared with 75 feet of an edge due to the nuisance nature of the plants when growing in the proximity of residences. Greenbrier Blackberry

All dead trees within 75 feet of an edge may be selectively removed by cutting with a saw at ground level. All hazardous trees within 75 feet of an edge may be pruned by a professional arborist or a Licensed Tree Expert in order to correct the potential problem. In the event the problem cannot be corrected by pruning, the tree may be removed. A tree is considered hazardous if there is a target area such as a house, garage, parking area, play area, etc. A 50 foot tall tree that is 75 feet from an edge and 120 feet from a target is not a hazardous tree. A hazardous tree must exhibit characteristics that would lead to the failure of one or more parts of the tree which would then impact the target area.

If tree removals reduce the stocking levels below 65 square feet of basalarea per acre the property owner shall replant trees in the disturbed area in order to return the stock levels to 65 square feet of basal aea within five (5) years.

Any proposed trial alignments shall be field adjusted to facilitate minimal damage to the root zones of the trees to be retained. The alignment of any proposed trails shall be approved by representatives of the M-NCPPC prior to the commencement of construction

Trees may be pruned in accordance with approved arboricultural standards. Pruning shall not be done in such a manner as to be injurious to the tree. The State of Maryland requires that pruning not done by the property owner shall be done by a Professional Arborists or a Licensed Tree Expert.

Tilling the soils in the Forest Conservation Areas in order to seed with grasses is not permitted. However, the property owner may sow with shade tolerant grasses within 30 feet of an edge. The use of Kentucky 31 fescue is not acceptable.

Section 2C.36 Motorized Traffic Signs (W8-6, W11-5, W11-8 W11-10)

I CERTIFY THAT THIS PLAN OF EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICABLE AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE. AND THAT THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE PRINCE GEORGE'S SOIL CONSERVATION DISTRICT AND THE "1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL". I HAVE REVIEWED THIS EROSION AND SEDIMENT CONTROL PLAN WITH THE OWNER/DEVELOPER. Motorized Traffic (W8-6, W11-5, W11-8, or W11-10) signs may be used to alert road users to locations where unexpected entries into the roadway by trucks, farm vehicles, emergency vehicles, or other vehicles might occur.

Support:

These locations might be relatively confined or might occur randomly over a segment of roadway.

Guidance:

Motorized Traffic signs should be used only at locations where the road user's sight distance is restricted, or the condition, activity, or entering traffic would be unexpected.

If the condition or activity is seasonal or temporary, the Motorized Traffic sign should be removed or covered when the condition or activity does not exist.

301-948-2750 Fax: 301-948-9067

301-794-7555 Fax: 301-794-7656

301-696-1240 Fax: 301-831-4865

301-870-2166 Fax: 301-870-2884

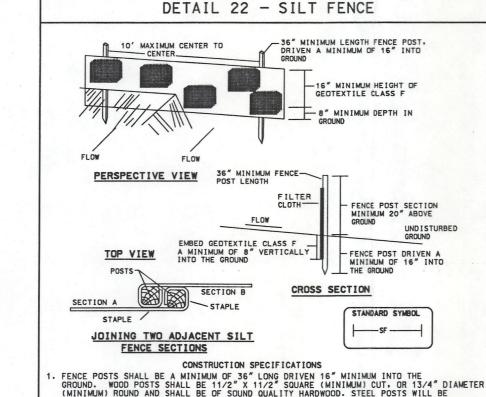
Internet address: http://www.lolederman.

Supplemental plaques (see Section 2C.39) with the legend AHEAD, XX METERS (XX FEET), or NEXT XX KILOMETERS (NEXT XX MILES) may be mounted below Motorized Traffic signs to provide advance notice to road users of unexpected entries.

ate: AUGUST 2001

REVISIONS

CAD Standards Version:



FENCE POSTS SHALL BE A MINIMUM OF 36" LONG DRIVEN 16" MINIMUM INTO THE GROUND. WOOD POSTS SHALL BE 11/2" X 11/2" SQUARE (MINIMUM) CUT. OR 13/4" DIAMETER (MINIMUM) ROUND AND SHALL BE OF SOUND QUALITY HARDWOOD. STELL POSTS WILL BE STANDARD T OR U SECTION WEIGHTING NOT LESS THAN 1.00 POND PER LINEAR FOOT.

TENSILE STRENGTH 50 LBS/IN (MIN.) TEST: MSMT 5 TENSILE MODULUS 20 LBS/IN (MIN.) TEST: MSMT 5 TENSILE MSMT 5 TEST: MSMT 5 T

SILT FENCE SHALL BE INSPECTED AFTER EACH RAINFALL EVENT AND MAINTAINED WHEN BULGES OCCUR OR WHEN SEDIMENT ACCUMULATION REACHED 50% OF THE FABRIC HEIGHT. U.S. DEPARTMENT OF AGRICULTURE PAGE MARYLAND DEPARTMENT OF ENVIRONMENT SOIL CONSERVATION SERVICE E - 15 - 3 WATER MANAGEMENT ADMINISTRATION

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Zoning Category:

Page 37 Grid C5

Tax Map

161 D3

M-NCPPC 200' Sheet

221 SW 1

WSSC 200' Sheet

221 SW 1

BY DATE

ATE OF MARK WARREN KENNETH DUNN COSTERED. THE CAPE ARCH

GENERAL NOTES FOR SEDIMENT CONTROL

OBTAIN AND FOLLOW THE "1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL" (HEREINAFTER REFERRED TO AS "STANDARDS AND SPECIFICATIONS") FROM THE MARYLAND DEPARTMENT OF THE ENVIRONMENT (MDE), 2500 BROENING HIGHWAY, BALTIMORE, MD 21224, (410) 631-3553.

ALL PROPOSED SEDIMENT CONTROL MEASURES ARE TEMPORARY MEASURES UNLESS SPECIFIED OTHERWISE ON PLANS.

3. NOTIFY THE INSPECTION AGENCY BEFORE THE START OF WORK AND BEFORE REMOVAL OF ANY TEMPORARY SEDIMENT CONTROL MEASURES.

4. NOTIFY THE PRINCE GEORGE'S SOIL CONSERVATION DISTRICT (PGSCD) AND PROVIDE REVISED SCHEDULE IF THE ACCOMPANYING CONSTRUCTION SCHEDULE CANNOT BE MET. 5. INSTALL AND MAINTAIN SEDIMENT CONTROL MEASURES IN STRICT ACCORDANCE WITH THESE APPROVED PLANS AND CRITERIA AND SPECIFICATIONS ADOPTED BY THE PGSCD.

PROTECT ALL TREES TO BE PRESERVED IN ACCORDANCE WITH THE LATEST APPROVED TREE CONSERVATION PLAN, DURING CONSTRUCTION OPERATIONS.

INSTALL SEDIMENT CONTROL MEASURES AT THE ONSET OF GRADING OPERATIONS, SO THAT EFFECTIVE SEDIMENT CONTROL CAN BE ACHIEVED DURING THE ENTIRE GRADING OPERATION. SEDIMENT CONTROL MEASURES MAY REQUIRE MINOR FIELD ADJUSTMENTS AT THE TIME OF CONSTRUCTION OF THE EROSION CONTROL, OR DURING THE CONSTRUCTION PROCESS, TO ENSURE THAT THEIR INTENDED PURPOSE IS ACCOMPLISHED. PGSCD APPROVAL WILL BE REQUIRED FOR ANY MAJOR REVISIONS TO THE APPROVED PLANS.

8. PROVIDE CONTINUOUS INSPECTION AND MAINTENANCE OF ALL SEDIMENT CONTROL MEASURES TO ENSURE THAT MAXIMUM SEDIMENT CONTROL EFFICIENCY IS OBTAINED THROUGHOUT THE LIFE OF THE DEVELOPMENT.

AT THE END OF EACH WORKING DAY, PLACE A TEMPORARY DIVERSION DIKE AROUND THE TOP OF EACH CUT OR FILL SLOPE TO DIRECT ANY POSSIBLE RUNOFF AWAY FROM THE FACE OF THE SLOPE TO NON-EROSIVE OUTLET AREA.

11. DURING EARTH MOVING OPERATIONS, MAINTAIN THE SITE IN A ROUGH GRADED CONDITION SO THE STORMWATER DOES NOT IMMEDIATELY RUN OFF, BUT IS DETAILED IN POCKETS AND IS ALLOWED TO SEEP INTO THE SOIL.

12. PREVENT ALL SEDIMENT FROM ENTERING ANY EXISTING STORM DRAINAGE STRUCTURE BY BLOCKING SHUT THE STRUCTURE WITH SAND BAGS, BOARDS OR BY ANY OTHER ACCEPTABLE METHOD AS SHOWN ON PLAN.

13. MAINTAIN POSITIVE DRAINAGE (MINIMUM 0.5%) ALONG ALL DIVERSION DIKES, AND

14. FENCE ALL SEDIMENT TRAPS AND BASINS WITH SEMI-PERMANENT FENCE NOT LESS THAN 42" IN HEIGHT WITH OPENINGS NOT TO EXCEED 3" IN WIDTH. ANCHOR FENCE AT A SPACING NOT TO EXCEED 8'. 15. REMOVE SEDIMENT AND RESTORE THE TRAP OR BASIN TO ORIGINAL DIMENSIONS WHENEVER SEDIMENT HAS ACCUMULATED TO ONE-HALF OF THE WET STORAGE DEPTH.

16. PROVIDE ADEQUATE CONTROL OF DUST BY WATERING, OR OTHER CONTROL METHODS ACCEPTABLE TO THE BUILDING OFFICIAL, AND IN CONFORMANCE WITH APPLICABLE AIR

17. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT ALL LOCAL, STATE (MOSH), AND FEDERAL (OSHA) CONSTRUCTION SAFETY REGULATIONS ARE FOLLOWED DURING THE IMPLEMENTATION OF THIS PLAN.

18. OFFSITE BORROW OR SPOIL AREAS MUST HAVE AN APPROVED AND ACTIVE SEDIMENT CONTROL PLAN.

19. THE TERM "SEEDING" ON THIS PLAN MEANS THE SUCCESSFUL GERMINATION AND ESTABLISHMENT OF STABLE GRASS COVER FROM A PROPERLY PREPARED SEEDBED CONTAINING THE SPECIFIED AMOUNTS OF LIME AND FERTILIZER IN ACCORDANCE WISECTION G "20 STANDARDS AND SPECIFICATIONS FOR VEGETATIVE STABILIZATION.

20. IF STABILIZATION OF DISTURBED AREA IS TO BE ACCOMPLISHED DURING THE MONTHS OF DECEMBER, JANUARY, OR FEBRUARY, THE STABILIZATION SHALL CONSIST OF MULCHING. SEED AND MULCH AS SOON AS THE SEASON PERMITS.

21. SODDING WITH LIME AND FERTILIZER MAY BE SUBSTITUTED FOR SEEDING AND

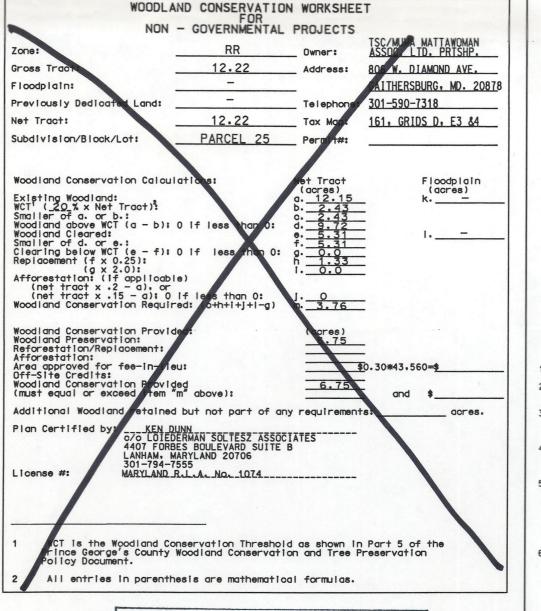
22. THE DEVELOPER IS RESPONSIBLE FOR THE ACQUISITION OF ALL REQUIRED EASEMENT, RIGHT AND/OR RIGHTS-OF-WAY PURSUANT TO THE DISCHARGE FROM THE SEDIMENT AND EROSION CONTROL PRACTICES, STORMWATER MANAGEMENT PRACTICES AND THE DISCHARGE OF STORMWATER ONTO OR ACROSS AND GRADING OR OTHER WORK TO BE PERFORMED ON ADJACENT OR DOWNSTREAM PROPERTIES AFFECTED BY THIS PLAN.

23. FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: A) SEVEN (7) CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER CONTROLS, DIKES, SWALES, DITCHES, PERMITER SLOPES, AND ALL SLOPES GREATER THAN THREE HORIZONTAL TO ONE VERTICAL (3:1) AND B) FOURTEEN (14) DAYS FOR ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE. THE IN-PLACE SEDIMENT CONTROL MEASURES WILL BE MAINTAINED ON A CONTINUING BASIS UNTIL THE SITE IS PERMANENTLY STABILIZED AND ALL PERMIT ARE MET.

24. ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF TWO ACRES, APPROVAL OF THE INSPECTION AGENCY IS TO BE REQUESTED UPON COMPLETION OF INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING. OTHER BUILDING OR GRADING INSPECTION APPROVALS WILL NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IN APPROVAL BY THE INSPECTION AGENCY IN THE I

25. APPROVAL SHALL BE REQUESTED UPON FINAL STABILIZATION OF ALL SITES WITH DISTURBED AREAS IN EXCESS OF TWO ACRES BEFORE REMOVAL OF CONTROLS.

26. DISTURBED SURFACE AREA
VOLUME OF SPOIL MATERIAL
VOLUME OF BORROW MATERIAL 27. LIST PREDOMINANT SOIL TYPES AND GENERAL DESCRIPTION PER PGSCD SOIL SURVEY





TABLES 27 & 28

TABLE 27 -GEOTEXTILE FABRICS APPARENT BURST STRENGTH OPENING SIZE CLASS STRENGTH PSI. MIN. MM. MAX. LB. MIN. A 0.30 250 500 0.60 200 320 0.30 200 320 D 0.60 90 145

90

90

145

190

* US STD SIEVE CW-02215 TADIE 20 CTONE CITE

0.30

0.40-0.80*

Ε

(SILT FENCE)

	IABLE	28-S	IONE	SIZE	
	SIZE RANGE	D ₅₀	D ₁₀₀	AAHTO	WEIGHT
NUMBER 57*	.375"-1.5"	0.5"	1.5"	M-43	N/A
NUMBER 1	2"-3"	2.5"	3"	M-43	N/A
RIP-RAP**	4"-7"	5.5"	7"	N/A	N/A
CLASS I	N/A	9.5"	15"	N/A	150 LB MAX.
CLASS II	N/A	16"	24"	N/A	700 LB MAX.
CLASS III	N/A	23"	34"	N/A	2000 LB MAX.

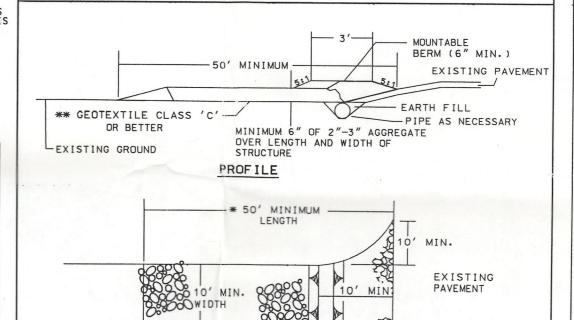
* THIS CLASSIFICATION IS TO BE USED ON THE INSIDE FACE OF STONE OUTLETS AND CHECK DAMS.

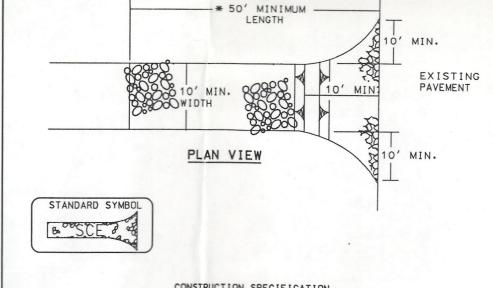
** THIS CLASSIFICATION IS TO BE USED WHEN EVER SMALL RIP-RAP IS REQUIRED. THE STATE HIGHWAY ADMINISTRATION DESIGNATION FOR THIS STONE IS "STONE FOR GABIONS" (905.01.04)

STONE FOR GABION BASKETS BASKET THICKNESS SIZE OF INDIVIDUAL STONES INCHES INCHES MM 150 3-5 75-125 9 225 4 - 7100-175 12 300 4-7 100-175 18 460 4 - 7100-175 36 100-300

NOTE: RECYCLED CONCRETE EQUIVALENT MAY BE SUBSTITUTED FOR ALL STONE CLASSIFICATIONS. RECYCLED CONCRETE EQUIVALENT SHALL BE CONCRETE BROKEN INTO THE SIZES MEETING THE APPROPRIATE CLASSIFICATION, SHALL CONTAIN NO STEEL REINFORCEMENT, AND SHALL HAVE A DENSITY OF 150 POUNDS PER CUBIC FOOT.

DETAIL 24 - STABILIZED CONSTRUCTION ENTRANCE





CONSTRUCTION SPECIFICATION LENGTH - MINIMUM OF 50' (*30' FOR SINGLE RESIDENCE LOT).

WIDTH - 10' MINIMUM, SHOULD BE FLARED AT THE EXISTING ROAD TO PROVIDE A TURNING RADIUS.

SURFACE WATER - ALL SURFACE WATER FLOWING TO OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED THROUGH THE ENTRANCE, MAINTAINING POSITIVE DRAINAGE. PIPE INSTALLED THROUGH THE STABILIZED CONSTRUCTION ENTRANCE SHALL BE PROTECTED WITH A MOUNTABLE BERM WITH 5:1 SLOPES AND A MINIMUM OF 6" OF STONE OVER THE PIPE. PIPE HAS TO BE SIZED ACCORDING TO THE DRAINAGE. WHEN THE SCE IS LOCATED AT A HIGH SPOT AND HAS NO DRAINAGE TO CONVEY A PIPE WILL NOT BE NECESSARY, PIPE SHOULD BE SIZED ACCORDING TO THE AMOUNT OF RUNOFF TO BE CONVEYED. A 6" MINIMUM WILL BE REQUIRED.

MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

THE REQUIREMENTS PRIOR TO USE.

C. COMPOSTED SLUDGE SHALL BE APPLIED AT A RATE OF 1 TON/1,000 SQUARE FEET.

TOPSOILING SPECIFICATIONS

TOPSOIL SALVAGED FROM THE EXISTING SITE MAY BE USED

SALVAGED FOR A GIVEN SOIL TYPE CAN BE FOUND IN THE

PUBLISHED BY USDA-SCS IN COOPERATION WITH MARYLAND

A. SOIL TO BE USED AS TOPSOIL MUST MEET THE FOLLOWING:

1. TOPSOIL SHALL BE A LOAM, SANDY LOAM, CLAY LOAM,

SILT LOAM, SANDY CLAY LOAM, OR LOAMY SAND. OTHER

SOILS MAY BE USED IF RECOMMENDED BY AN AGRONOMIST OR SOIL SCIENTIST AND APPROVED BY THE APPROPRIATE

APPROVAL AUTHORITY. REGARDLESS, TOPSOIL SHALL NOT

BE A MIXTURE OF CONTRASTING TEXTURED SUBSOILS AND

SHALL CONTAIN LESS THAN 5% BY VOLUME OF CINDERS.

STONES, SLAG, COARSE FRAGMENTS, GRAVEL, STICKS, ROOTS, TRASH, OR OTHER MATERIALS LARGER THAN 1."

2. TOPSOIL MUST BE FREE OF PLANTS OR PLANT PARTS SUCH

COMPOSED OF HEAVY CLAYS, GROUND LIMESTONE SHALL BE

PER 1,000 SQUARE FEET) PRIOR TO THE PLACEMENT OF

DESIGNATED AREAS AND WORKED INTO THE SOIL IN CON-

JUNCTION WITH TILLAGE OPERATIONS AS DESCRIBED IN

MENTS AS SPECIFIED IN SECTION "20.0 STANDARDS AND

SPECIFICATIONS FOR VEGETATIVE STABILIZATION" -

SECTION I - VEGETATIVE STABILIZATION METHODS AND

TEST RESULTS DICTATING FERTILIZER AND LIME AMEND-

MENTS REQUIRED TO BRING THE SOIL INTO COMPLIANCE

A. PH FOR TOPSOIL SHALL BE BETWEEN 6.0 AND 7.5.

B. ORGANIC CONTENT OF TOPSOIL SHALL BE NOT LESS

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

TIME HAS ELAPSED (14 DAYS MIN.) TO PERMIT

DISSIPATION OF PHYTO-TOXIC MATERIALS.

TOPSOIL SUBSTITUTES OR AMENDMENTS, AS RECOMMENDED

BY A QUALIFIED AGRONOMIST OR SOIL SCIENTIST AND

APPROVED BY THE APPROPRIATE AUTHORITY, MAY BE USED

PLACE TOPSOIL (IF REQUIRED) AND APPLY SOIL AMENDMENTS

AS SPECIFIED IN SECTION "20.0 STANDARDS AND SPECIFIC-

ATIONS FOR VEGETATIVE STABILIZATION" - SECTION 1 -

VEGETATIVE STABILIZATION METHODS AND MATERIALS.

WHEN TOPSOILING, MAINTAIN NEEDED EROSION AND SEDIMENT

CONTROL PRACTICES SUCH AS DIVERSIONS, GRADE STABIL-

GRADES ON THE AREAS TO BE TOPSOILED, WHICH HAVE BEEN

C. TOPSOIL SHALL BE UNIFORMLY DISTRIBUTED IN A 4"-8" LAYER

AND LIGHTLY COMPACTED TO A MINIMUM THICKNESS OF 4".

ADDITIONAL SOIL PREPARATION AND TILLAGE. ANY IRREG-ULARITIES IN THE SURFACE RESULTING FROM TOPSOILING OR

TOPSOIL SHALL NOT BE PLACED WHILE THE TOPSOIL OR SUB-

INSTEAD OF APPLYING THE FULL AMOUNTS OF LIME AND COMM-ERCIAL FERTILIZER, COMPOSTED SLUDGE AND AMENDMENTS MAY

COMPOSTED SLUDGE MATERIAL FOR USE AS A SOIL CON-DITIONER FOR SITES HAVING DISTURBED AREAS OVER 5

ACRES SHALL BE TESTED TO PRESCRIBE AMENDMENTS AND

A. COMPOSTED SLUDGE SHALL BE SUPPLIED BY. OR

ENVIRONMENT UNDER COMAR 26.04.06.

FOR SITES HAVING DISTURBED AREAS UNDER 5 ACRES, THE

COMPOST SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:

ORIGINATE FROM. A PERSON OR PERSONS THAT ARE

PERMITTED (AT THE TIME OF ACQUISITION OF THE

COMPOSTED SLUDGE SHALL CONTAIN AT LEAST 1 PER-

CENT 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

COMPOST) BY THE MARYLAND DEPARTMENT OF THE

SOIL IS IN A FROZEN OR MUDDY CONDITION, WHEN THE SUB-

SOIL IS EXCESSIVELY WET, OR IN CONDITION THAT MAY OTHER-WISE BE DETRIMENTAL TO PROPER GRADING AND SEEDBED PREP-

OTHER OPERATIONS SHALL BE CORRECTED IN ORDER TO PREVENT

SPREADING SHALL BE PERFORMED IN SUCH A MANNER THAT

SODDING OR SEEDING CAN PROCEED WITH A MINIMUM OF

THE FORMATION OF DEPRESSIONS OR WATER POCKETS.

PREVIOUSLY ESTABLISHED, SHALL BE MAINTAINED, ALBEIT 4"-

IZATION STRUCTURES, EARTH DIKES, SILT FENCE, SEDIMENT

CHEMICALS USED FOR WEED CONTROL UNTIL SUFFICIENT

C. TOPSOIL HAVING SOLUBLE SALT CONTENT GREATER THAN

IF THE TESTED SOIL DEMONSTRATES A PH OF LESS

THAN 6.0. SUFFICIENT LIME SHALL BE PRESCRIBED

1. PLACE TOPSOIL (IF REQUIRED) AND APPLY SOIL AMEND-.

SPREAD AT THE RATE OF 4-8 TONS/ACRE (200-400 POUNDS

TOPSOIL. LIME SHALL BE DISTRIBUTED UNIFORMLY OVER

AS BERMUDA GRASS, QUACKGRASS, JOHNSONGRASS,

NUTSEDGE, POISON IVY, THISTLE, OR OTHERS AS

3. WHERE THE SUBSOIL IS EITHER HIGHLY ACIDIC OR

B. FOR SITES HAVING DISTURBED AREAS UNDER 5 ACRES:

C. FOR SITES HAVING DISTURBED AREAS OVER 5 ACRES:

1. ON SOIL MEETING TOPSOIL SPECIFICATIONS, OBTAIN

TO RAISE THE PH TO 6.5 OR HIGHER.

THAN 1.5 PERCENT BY WEIGHT.

IN LIEU OF NATURAL TOPSOIL.

TRAPS, AND SEDIMENT BASINS.

8" HIGHER IN ELEVATION.

IV. ALTERNATIVE FOR PERMANENT SEEDING

BE APPLIED AS SPECIFIED BELOW:

TOPSOIL APPLICATION

THE FOLLOWING PROCEDURES.

AGRICULTURAL EXPERIMENTAL STATION.

II. TOPSOIL SPECIFICATIONS

IN DIAMETER.

SPECIFIED.

MATERIALS.

PROVIDED THAT IT MEETS THE STANDARDS SET FORTH IN THESE SPECIFICATIONS. TYPICALLY, THE DEPTH OF TOPSOIL TO BE

REPRESENTATIVE SOIL PROFILE SECTION IN THE SOIL SURVEY

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 LIME APPLICATION RATE.

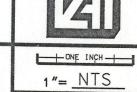
MISS UTILITY NOTE

NFORMATION CONCERNING EXISTING UNDERGROUND UTILITIES WAS OBTAINED FROM AVAILABLE RECORDS. THE CONTRACTOR MUST DETERMINE THE EXACT LOCATION AND ELEVATION OF ALL EXISTING UTILITIES AND UTILITY CROSSINGS BY DIGGING TEST PITS BY HAND, WELL IN ADVANCE OF THE START OF EXCAVATION. CONTACT "MISS UTILITY" AT 1-800-257-7777, 48 HOURS PRIOR TO THE START OF EXCAVATION. IF CLEARANCES ARE LESS THAN SHOWN ON THIS PLAN OR TWELVE (12) INCHES, WHICHEVER IS LESS, CONTACT THE ENGINEER AND THE UTILITY COMPANY BEFORE PROCEEDING WITH CONSTRUCTION. CLEARANCES LESS THAN NOTED MAY REQUIRE REVISIONS TO THIS PLAN.

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STOCKPILE GRADING, SEDIMENT CONTROL, & TCP II DETAILS



MANOKEEK

PRINCE GEORGE'S COUNTY, MARYLAND

SHEET OF PROJECT NO.

75-06-0



SIGNATURE

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FRANYO

TSC/MUMA MATTAWOMAN ASSOC L.P.

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