

21.0 STANDARD AND SPECIFICATIONS FOR TOPSOIL

DEFINITION  
 PLACEMENT OF TOPSOIL OVER A PREPARED SUBSOIL PRIOR TO ESTABLISHMENT OF PERMANENT VEGETATION.

PURPOSE  
 TO PROVIDE A SUITABLE SOIL MEDIUM FOR VEGETATIVE GROWTH. SOILS OF CONCERN HAVE LOW MOISTURE CONTENT, LOW NITROGEN 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/PAVEMENT MATERIAL IS NOT AGGREGATE TO PROHIBIT VEGETATIVE GROWTH.  
 B. THE SOIL MATERIAL IS SO SHALLOW THAT THE ROOTING ZONE IS NOT DEEP ENOUGH TO SUPPORT PLANTS OR FURNISH CONTINUING SUPPLIES OF MOISTURE AND PLANT NUTRIENTS.  
 C. THE ORIGINAL SOIL TO BE VEGETATED CONTAINS MATERIAL TOXIC TO PLANT GROWTH.  
 D. THE SOIL IS SO ACIDIC THAT TREATMENT WITH LIMESTONE IS NOT FEASIBLE.

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. TOPSOIL SALVAGES 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 SOIL TYPE CAN BE FOUND IN THE REPRESENTATIVE SOIL PROFILE SECTION IN THE SOIL SURVEY PUBLISHED BY USDA-GS IN COOPERATION WITH MARYLAND AGRICULTURAL EXPERIMENTAL STATION.

II. TOPSOIL SPECIFICATIONS - 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, LOAMY SAND, OR OTHER SOILS MAY BE USED IF RECOMMENDED BY AN AGRICULTURIST OR SOIL SCIENTIST AND APPROVED BY THE APPROPRIATE APPROPRIATE APPROVAL AUTHORITY. REGARDLESS, TOPSOIL SHALL NOT BE A MIXTURE OF CONTRASTING TEXTURED SUBSOILS AND SHALL CONTAIN LESS THAN 95 BY VOLUME OF SANDS, STONES, SLAGS, CONCRETE FRAGMENTS, GRAVEL, STICKS, ROOTS, TRASH, OR OTHER MATERIALS LARGER THAN 1/4" IN DIAMETER.
2. TOPSOIL MUST BE FREE OF PLANTS OR PLANT PARTS SUCH AS BERMUDA GRASS, QUACKGRASS, JOHNSONGRASS, NITRIDIOLE, POISON IVY, THISTLE, OR OTHERS AS SPECIFIED.
3. WHERE THE 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 1000 SQUARE FEET) FROM THE AGGREGATE PLACEMENT OF TOPSOIL. IT SHALL BE DISTRIBUTED UNIFORMLY OVER DESIGNATED AREAS AND WORKED INTO THE SOIL IN CONJUNCTION WITH TILLAGE OPERATIONS AS DESCRIBED IN THE FOLLOWING PROVISIONS.

III. FOR SITES HAVING DISTURBED AREAS UNDER 5 ACRES:

1. ON SOIL TESTING 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 6.5 OR LESS, 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.
  - C. TOPSOIL HAVING SOLUBLE SALT CONTENT GREATER THAN 500 PARTS PER MILLION SHALL NOT BE USED.
  - D. NO 800 OR SEED SHALL BE PLACED ON SOIL WHICH HAS BEEN TREATED WITH SOIL STERILANTS OR CHEMICALS USED FOR WEED CONTROL UNLESS SUFFICIENT TIME HAS ELAPSED (4 DAYS MIN) TO PERMIT DISSIPATION OF PHYTO-TOXIC MATERIALS.

NOTE: TOPSOIL SUBSTITUTES OR AMENDMENTS AS RECOMMENDED BY A QUALIFIED AGRICULTURIST OR SOIL SCIENTIST AND APPROVED BY THE APPROPRIATE APPROVAL AUTHORITY MAY BE USED IN LIEU OF NATURAL TOPSOIL.

II. PLACE TOPSOIL IF REQUIRED AND APPLY LIME AMENDMENTS AS SPECIFIED IN 2.0 VEGETATIVE STABILIZATION - SECTION I - VEGETATIVE STABILIZATION METHODS AND MATERIALS.

V. TOPSOIL APPLICATION

1. WHEN TOPSOILING, MAINTAIN NEEDED EROSION AND SEDIMENT CONTROL PRACTICES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, EARTH DIKES, SILT FENCE, SILT FENCE AND SEDIMENT TRAPS, AND BASINS.
2. GRADES ON THE AREAS TO BE TOPSOILED, WHICH HAVE BEEN PREVIOUSLY ESTABLISHED, SHALL BE MAINTAINED, ALTHOUGH 4" - 6" HIGHER IN ELEVATION.
3. TOPSOIL SHALL BE UNIFORMLY DISTRIBUTED IN A 4" - 6" LAYER AND LIGHTLY COMPACTED TO A MINIMUM THICKNESS OF 4". SPREADING SHALL BE PERFORMED IN SUCH A MANNER THAT SOODING OR SEEDING CAN PROCEED WITH A MINIMUM OF ADDITIONAL SOIL PREPARATION AND TILLAGE. TOPSOIL SHALL BE APPLIED TO THE SURFACE RESULTING FROM TOPSOILING OR OTHER OPERATIONS SHALL BE MIXED IN ORDER TO PREVENT THE FORMATION OF DEPRESSIONS OR WATER POCKETS.
4. TOPSOIL SHALL NOT BE PLACED WHILE THE TOPSOIL OR SUBSOIL IS IN A FROZEN OR MURKY CONDITION, WHEN THE SUBSOIL IS EXCESSIVELY WET OR IN A CONDITION THAT MAY OBSCURE BE DETRIMENTAL TO PROPER GRADING AND SEEDING PREPARATION.

VI. ALTERNATIVE FOR PERMANENT SEEDING - INSTEAD OF APPLYING THE FULL AMOUNT OF LIME AND COMMERCIAL FERTILIZER, COMPOSTED SLUDGE AND AMENDMENTS MAY BE APPLIED AS SPECIFIED BELOW.

1. COMPOSTED SLUDGE MATERIAL FOR USE AS A SOIL CONDITIONER FOR SITES HAVING DISTURBED AREAS OVER 5 ACRES SHALL BE TESTED TO PRESCRIBE AMENDMENTS AND FOR SITES 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.
  - C. COMPOSTED SLUDGE SHALL BE APPLIED AT A RATE OF 1 TON/1000 SQUARE FEET.
2. COMPOSTED SLUDGE SHALL BE AMENDED WITH A POTASSIUM FERTILIZER APPLIED AT A RATE OF 4 LBS/1000 SQUARE FEET, AND 1/2 THE NORMAL LIME APPLICATION RATE.

REFERENCES: GUIDELINES SPECIFICATIONS, SOIL PREPARATION AND SOODING, MD-VA, PUB. #1, COOPERATIVE EXTENSION SERVICE, UNIVERSITY OF MARYLAND AND VIRGINIA POLYTECHNIC INSTITUTE, REVISED 1975.

PERMANENT SEEDING NOTES

APPLY TO GRADED OR CLEARED AREAS NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG-LIVED VEGETATIVE COVER IS NEEDED.

SEEDING PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISKING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED.

SOIL AMENDMENTS: IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ONE OF THE FOLLOWING SCHEDULES:

1. PRESEED - APPLY 2 TONS PER ACRE DOLICUMITE LIMESTONE (92 LBS/1000 SQ. FT.) AND 1000 LBS PER ACRE 10-10-10 FERTILIZER (4 LBS/1000 SQ. FT.) BEFORE SEEDING. HARROW OR DISK INTO UPPER THREE INCHES OF SOIL AT TIME OF SEEDING. APPLY 1000 LBS PER ACRE 20-0-0 UREAFORM FERTILIZER (9 LBS/1000 SQ. FT.).
2. ACCEPTABLE - APPLY 2 TONS PER ACRE DOLICUMITE LIMESTONE (92 LBS/1000 SQ. FT.) AND 1000 LBS PER ACRE 10-10-10 FERTILIZER (20 LBS/1000 SQ. FT.) BEFORE SEEDING. HARROW OR DISK INTO UPPER THREE INCHES OF SOIL.

SEEDING - FOR THE PERIODS MARCH 1 THRU APRIL 30 AND AUGUST 1 THRU OCTOBER 15, SEED WITH 80 LBS PER ACRE (14 LBS/1000 SQ. FT.) OF KENTUCKY 31 TALL FESCUE OR THE PERIOD MAY 1 THRU JULY 31 SEED WITH 60 LBS KENTUCKY 31 TALL FESCUE PER ACRE AND 2 LBS PER ACRE (0.4 LBS/1000 SQ. FT.) OF MEXICO 1000S GRASS. DURING THE PERIOD OCTOBER 15 THRU FEBRUARY 28, PROTECT SITE BY OPTION (1) - 2 TONS PER ACRE OF WELLS ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING. OPTION (2) - USE 500 SQ. FT. (3) - SEED WITH 60 LBS/ACRE KENTUCKY 31 TALL FESCUE AND MULCH WITH 2 TONS/ACRE WELLS ANCHORED STRAW.

MULCHING - APPLY 1/2 TO 2 TONS PER ACRE (70 - 90 LBS/1000 SQ. FT.) OF UNROTTED SMALL GRASS STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 200 GALLONS PER ACRE (5 GALLONS/500 SQ. FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS ON SLOPES 6 FEET OR HIGHER. USE 340 GALLONS PER ACRE (6 GALLONS/500 SQ. FT.) FOR ANCHORING.

MAINTENANCE - INSPECT ALL SEEDING AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDING.

TEMPORARY SEEDING NOTES

APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE REDISTURBED WHERE A SHORT-TERM VEGETATIVE COVER IS NEEDED.

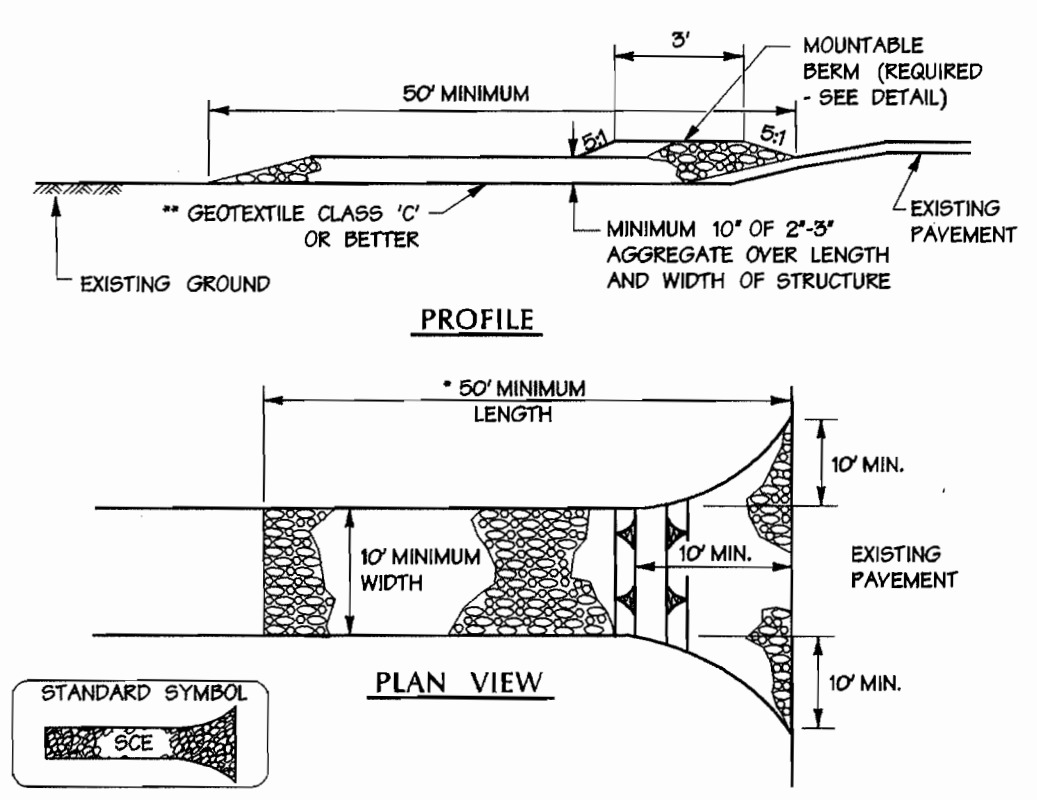
SEEDING PREPARATION - LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISKING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED.

SOIL AMENDMENTS - APPLY 600 LBS PER ACRE 10-10-10 FERTILIZER (4 LBS/1000 SQ. FT.).

SEEDING - FOR THE PERIODS MARCH 1 THRU APRIL 30 AND AUGUST 1 THRU OCTOBER 15, SEED WITH 2/32 BUSHEL PER ACRE OF ANNUAL RYE (32 LBS/1000 SQ. FT.) FOR THE PERIOD MAY 1 THRU AUGUST 14, SEED WITH 2 LBS PER ACRE OF WEEPING LOVEGRASS (27 LBS/1000 SQ. FT.) FOR THE PERIOD NOVEMBER 15 THRU FEBRUARY 28, PROTECT SITE BY APPLYING 2 TONS PER ACRE OF WELLS ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING. OPTION (1) - SEED WITH 60 LBS/ACRE KENTUCKY 31 TALL FESCUE AND MULCH WITH 2 TONS/ACRE WELLS ANCHORED STRAW.

MULCHING - APPLY 1/2 TO 2 TONS PER ACRE (70 - 90 LBS/1000 SQ. FT.) OF UNROTTED FREE SMALL GRASS STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 200 GALLONS PER ACRE (5 GALLONS/500 SQ. FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS ON SLOPES 6 FEET OR HIGHER. USE 340 GALLONS PER ACRE (6 GALLONS/500 SQ. FT.) FOR ANCHORING.

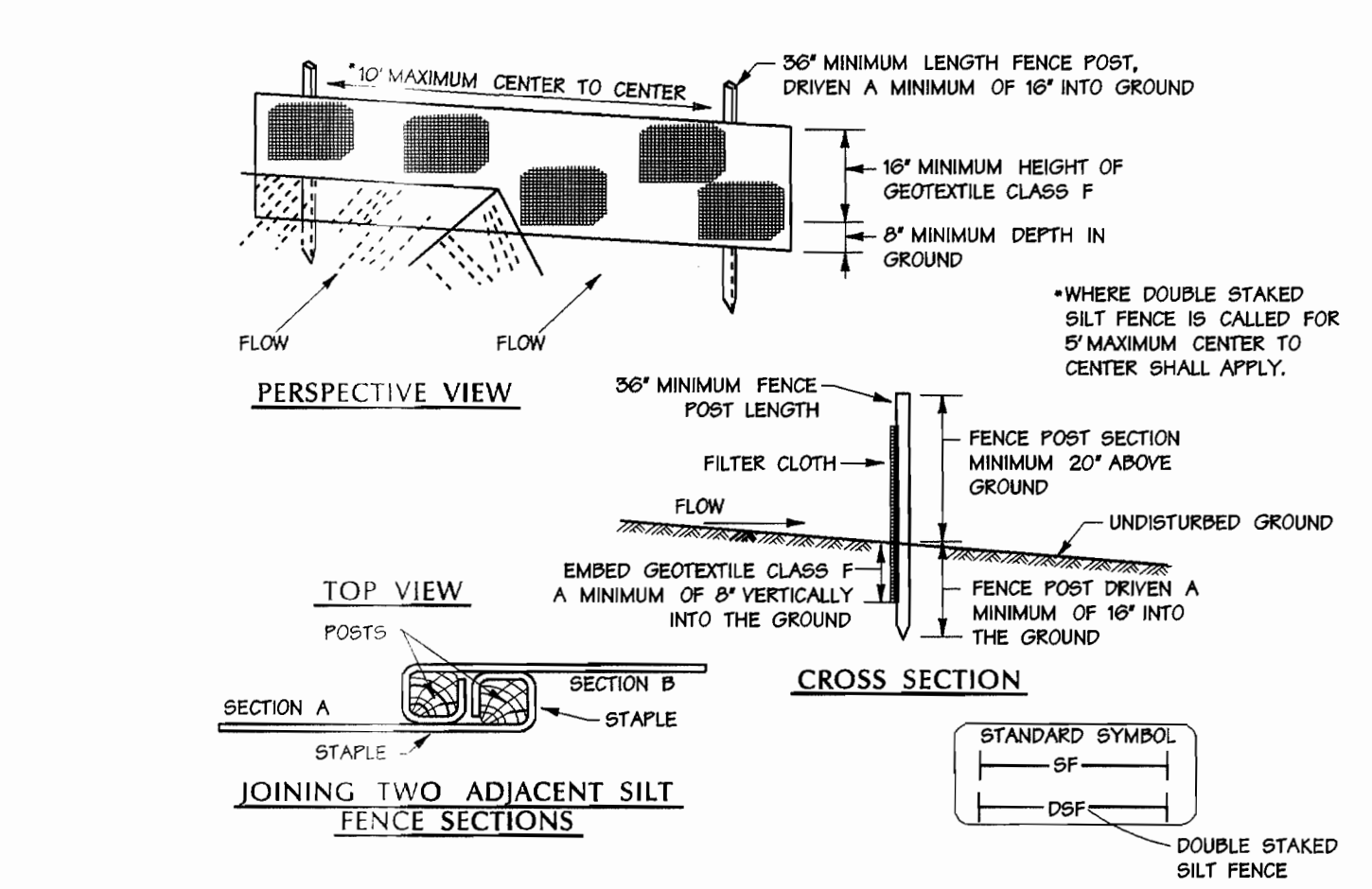
REFER TO THE 1984 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR ADDITIONAL RATES AND METHODS NOT COVERED.



CONSTRUCTION SPECIFICATIONS  
 1. STONE - CRUSHED AGGREGATE (2" TO 3") OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT  
 2. LENGTH - AS REQUIRED, BUT NOT LESS THAN 50 FEET (EXCEPT ON SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WILL APPLY).  
 3. THICKNESS - NOT FEWER THAN TEN (10) INCHES.  
 4. WIDTH - TEN (10) FOOT MINIMUM, BUT LESS THAN FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.  
 5. GEOTEXTILE FABRIC CLASS 'C' OR BETTER SHALL BE PLACED OVER THE EXISTING GROUND PRIOR TO PLACING OF STONE. GEOTEXTILE FABRIC WILL NOT BE REQUIRED ON A SINGLE FAMILY RESIDENT LOT.  
 6. A MOUNTABLE BERM WITH SLOPES IS REQUIRED FOR ALL SURFACE WATER FLOWING OR DIVERTED TOWARDS CONSTRUCTION ENTRANCE.  
 7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT-OF-WAY MUST BE REMOVED IMMEDIATELY.  
 8. WASHING - WHEELS MUST BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAIN INTO AN APPROVED SEDIMENT TRAPPING DEVICE.  
 9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

U.S. DEPARTMENT OF AGRICULTURE  
 SOIL CONSERVATION SERVICE  
 MARYLAND DEPARTMENT OF ENVIRONMENT  
 WATER MANAGEMENT ADMINISTRATION  
 E - 15 - 5

Heavy Duty Stabilized Construction Entrance Not To Scale



CONSTRUCTION SPECIFICATIONS  
 1. FENCE POSTS SHALL BE A MINIMUM OF 36" LONG DRIVEN 18" MINIMUM INTO THE GROUND. WOOD POSTS SHALL BE 1 1/2" x 1 1/2" SQUARE (MINIMUM) CUT, OR 1 1/2" DIAMETER (MINIMUM) ROUND AND SHALL BE OF SOUND QUALITY HARDWOOD. STEEL POSTS WILL BE STANDARD 1 OR 1 1/2 SECTION WEIGHING NOT LESS THAN 100 POUND PER LINEAR FOOT.  
 2. GEOTEXTILE SHALL BE FASTENED SECURELY TO EACH FENCE POST WITH WIRE TIES OR STAPLES AT TOP AND MID-SECTION AND SHALL MEET THE FOLLOWING REQUIREMENTS FOR GEOTEXTILE CLASS 'F':  
 TENSILE STRENGTH 50 LBS/IN (MIN) TEST: MGMT 509  
 TENSILE MODULUS 20 LBS/IN (MIN) TEST: MGMT 509  
 FLOW RATE 0.5 GAL FT/MIN (MAX) TEST: MGMT 322  
 FILTERING EFFICIENCY 75% (MIN) TEST: MGMT 322  
 3. WHERE ENDS OF GEOTEXTILE FABRIC COME TOGETHER, THEY SHALL BE OVERLAPPED, FOLDED, AND STAPLED TO PREVENT SEDIMENT BYPASS.  
 4. 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  
 SOIL CONSERVATION SERVICE  
 MARYLAND DEPARTMENT OF ENVIRONMENT  
 WATER MANAGEMENT ADMINISTRATION  
 E - 15 - 5

Silt Fence Not To Scale

SCHEDULE A PERIMETER LANDSCAPE EDGE

CATEGORY	ADJACENT TO ROADWAYS	ADJACENT TO PERIMETER PROP.
LANDSCAPE TYPE 'A'		1, 2, & 3
LINEAR FEET OF PERIMETER		300
LANDSCAPE TYPE 'B'	NA	
LINEAR FEET OF PERIMETER	NA	
LANDSCAPE TYPE 'C'		
LINEAR FEET OF PERIMETER		
CREDIT FOR EXISTING VEGETATION (DESCRIBE BELOW IF NEEDED)	NA	N/A
CREDIT FOR BERM (DESCRIBE BELOW IF NEEDED)	NA	N/A
NUMBER OF PLANTS REQUIRED		
SHADE TREES	NA	5
EYERGREEN TREES	NA	---
OTHER TREES (2 :1 SUBSTITUTION)	NA	---
SHRUBS (10 :1 SUBSTITUTION)	NA	---
NUMBER OF PLANTS PROVIDED*		
SHADE TREES		5
EYERGREEN TREES		---
OTHER TREES (2 :1 SUBSTITUTION)		---
SHRUBS (10 :1 SUBSTITUTION)		---

NOTES:

1. THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SEC. 16-124 OF THE HOWARD COUNTY CODE AND LANDSCAPE MANUAL.
2. FINANCIAL SURETY FOR THE REQUIRED 5 SHADE TREES IN THE AMOUNT OF \$1,500 IS PART OF THE BUILDERS GRADING PERMIT APPLICATION.
3. THIS PLAN IS EXEMPT FROM THE FOREST CONSERVATION REQUIREMENTS BECAUSE THE LOT IS SMALLER THAN 40,000 S.F. IN ACCORDANCE WITH SECTION 16-1202 (b)(1)(i) OF THE HOWARD COUNTY CODE & FOREST CONSERVATION MANUAL. ALL WORK ASSOCIATED WITH THE UPGRADING OF THE EXISTING DRIVEWAY WILL TAKE PLACE WITHIN AN EXISTING USE-IN-COMMON EASEMENT AREA. THE L.O.D. WILL NOT DISTURB ANY EXISTING FOREST RESOURCES ON THIS SITE AND SHALL BE WITHIN AN AREA PREVIOUSLY GRADED FOR THE INSTALLATION OF THE SHARED DRIVEWAY.
4. A USE-IN-COMMON MAINTENANCE AGREEMENT FOR PARCELS 132, 151, 129 & 183 HAS BEEN RECORDED IN THE LAND RECORDS OFFICE OF HOWARD COUNTY AS LIBER 7446/7410-448.

Plant List

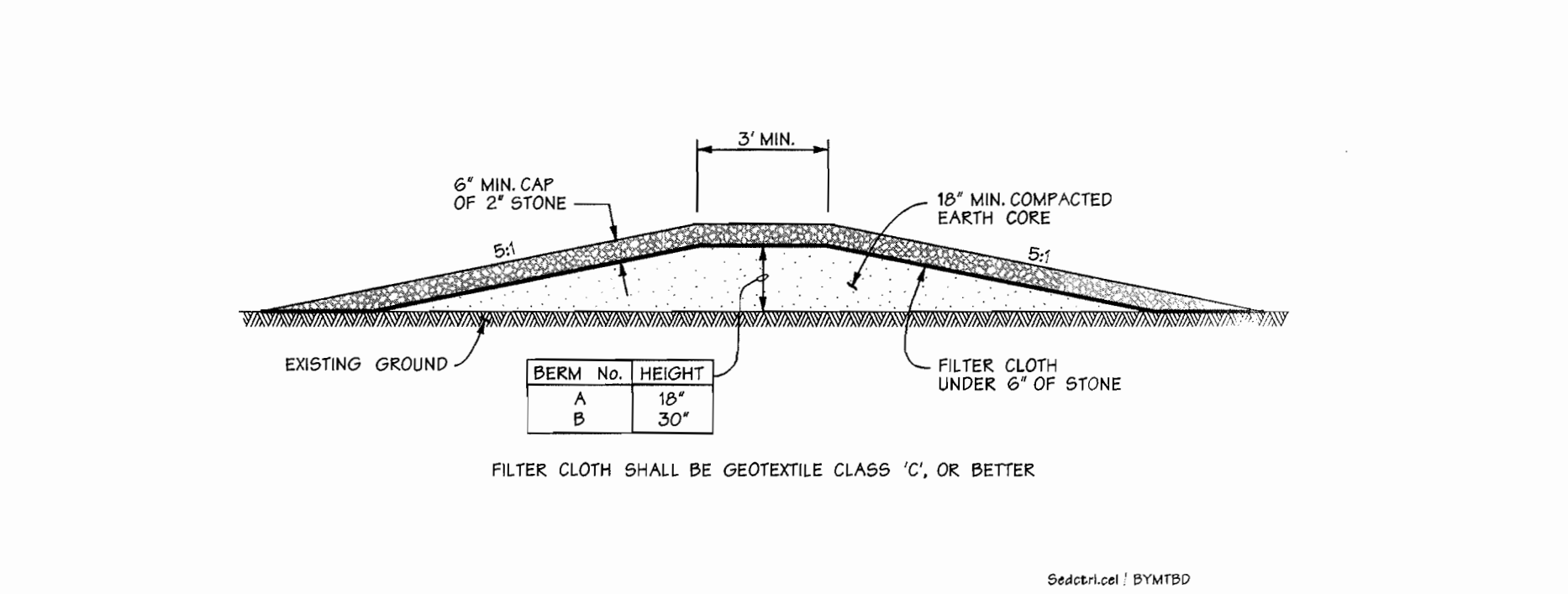
QTY	SYM	BOTANICAL NAME/COMMON NAME	SIZE	REMARKS
5	AR	ACER RUBRUM 'RED SUNSET' / RED SUNSET MAPLE	2 1/2' - 3' CAL.	B & B

CERTIFICATION 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.  
 Signature: John P. Phelan  
 DATE: 10/17/03

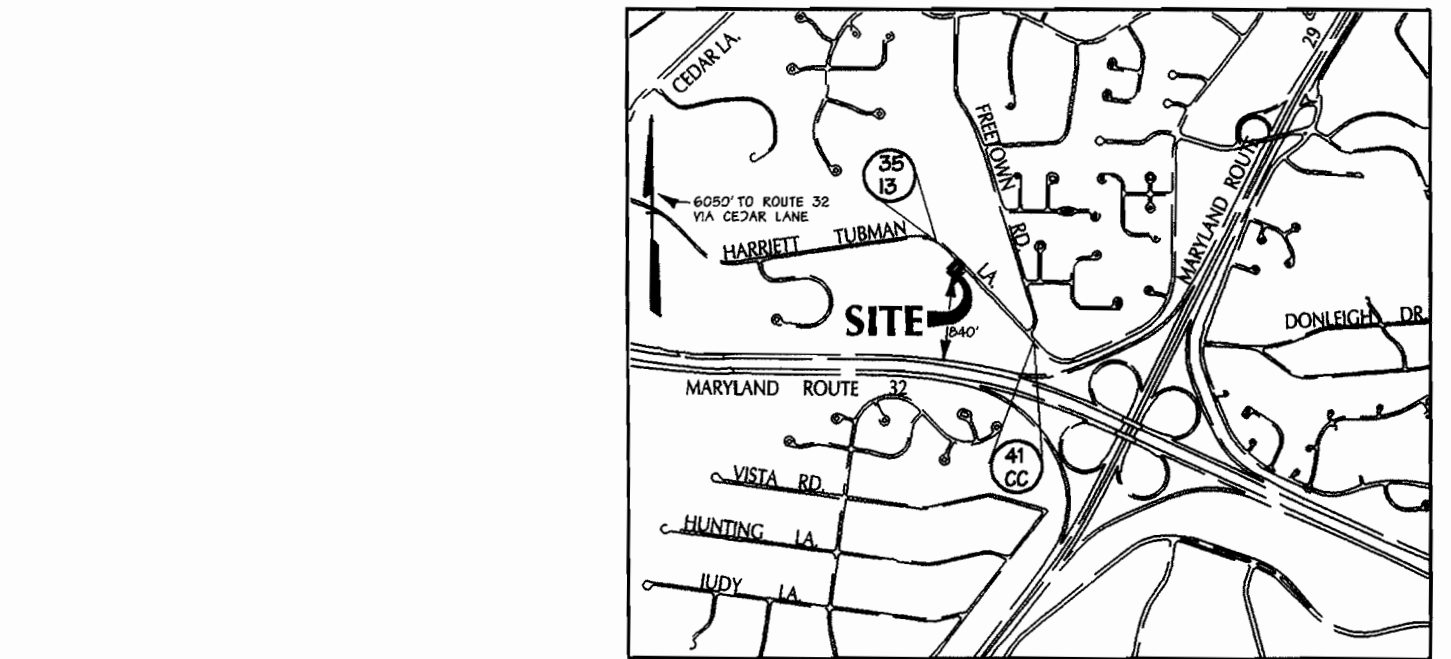
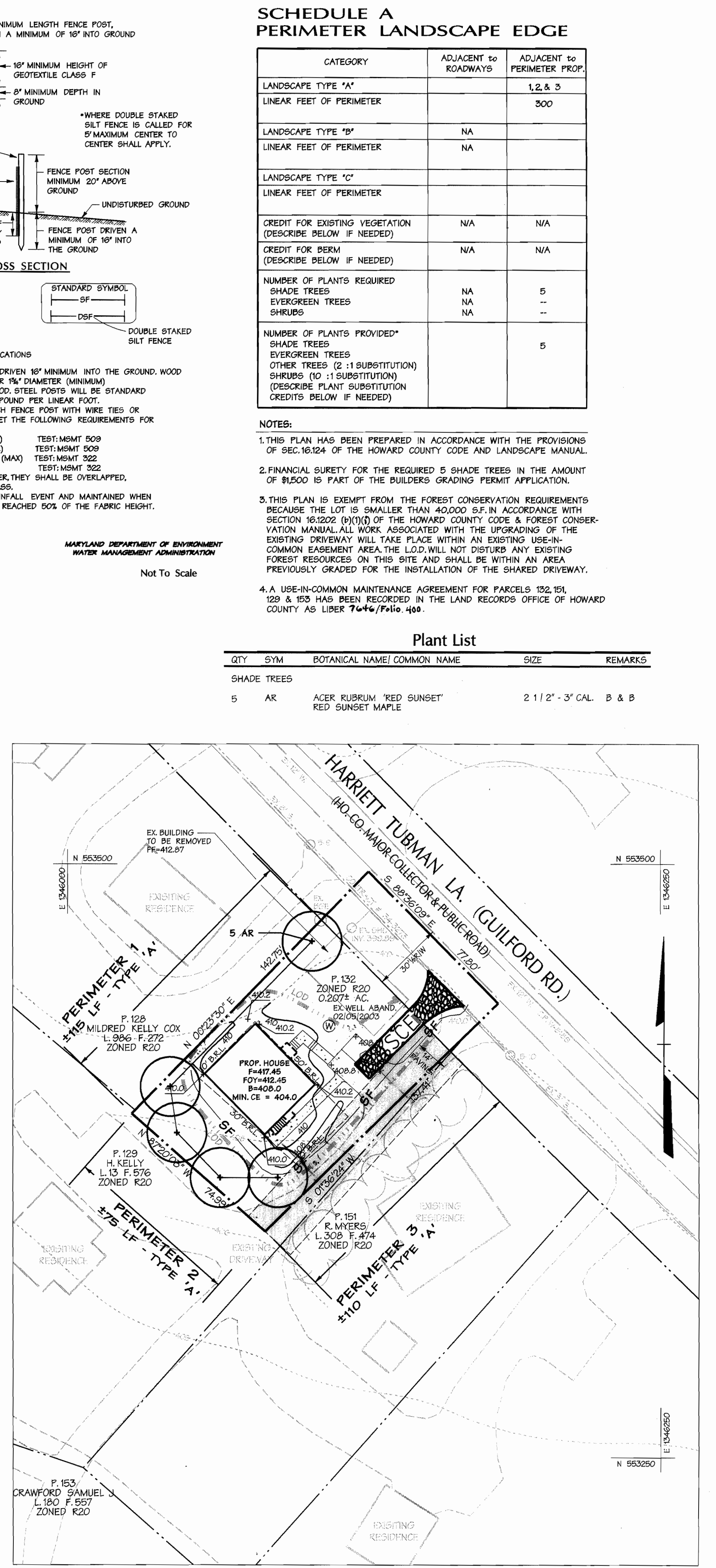
CERTIFICATION BY THE DEVELOPER:  
 I CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN AND THAT ANY RESTRICTIONS PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE MY SOIL ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT.  
 Signature: John W. Little  
 DATE: 9/26/03

CERTIFICATION 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.  
 Signature: John W. Little  
 DATE: 9/26/03

CERTIFICATION BY THE DEVELOPER:  
 I CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN AND THAT ANY RESTRICTIONS PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE MY SOIL ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT.  
 Signature: John W. Little  
 DATE: 9/26/03



CONSTRUCTION SEQUENCE  
 1. OBTAIN GRADING PERMIT ..... 7  
 2. INSTALL SEDIMENT AND EROSION CONTROL DEVICES AND STABILIZE ..... 2  
 3. EXCAVATE FOR FOUNDATIONS, ROUGH GRADE, AND TEMP. STABILIZE ..... 30  
 4. CONSTRUCT STRUCTURES, SIDEWALKS, AND DRIVEWAYS ..... 60  
 5. INSTALL UTILITIES ..... 14  
 6. FINAL GRADES AND STABILIZE IN ACCORDANCE WITH STANDARDS AND SPECIFICATIONS ..... 14  
 7. UPON APPROVAL OF THE SEDIMENT CONTROL INSPECTOR REMOVE SEDIMENT AND EROSION CONTROL DEVICES AND STABILIZE ..... 7



LOCATION MAP  
 SCALE: 1" = 2000'  
 BENCHMARK  
 PL. 3513 N. 95 24 94.279  
 E. 134 10 49.112  
 PL. 41CC N. 95 24 94.279  
 E. 134 10 49.112

GENERAL NOTES

1. THE SUBJECT PROPERTY IS ZONED R20 PER THE 1993 COMPREHENSIVE ZONING PLAN.
2. IN ACCORDANCE WITH SECTION 12B OF THE HOWARD COUNTY ZONING REGULATIONS, BAY WINDOWS, CHIMNEYS, OR EXTERIOR STAIRWAYS NOT MORE THAN 4 FEET INTO ANY SETBACKS, PORCHES OR DECKS, OPEN OR ENCLOSED MAY PROJECT NOT MORE THAN 10 FEET INTO THE FRONT OR REAR YARD SETBACK.
3. NO CLEARING, GRADING, OR CONSTRUCTION IS PERMITTED WITHIN THE REQUIRED WETLANDS, STREAM(S) OR THEIR BUFFERS AND FOREST CONSERVATION EASEMENT AREAS.
4. DRIVEWAYS SHALL PROTECT PRIOR TO INSTALLATION OF A RESIDENTIAL OCCUPANCY PERMIT FOR ANY NEW DWELLINGS TO INSURE SAFE ACCESS FOR FIRE AND EMERGENCY VEHICLES PER THE FOLLOWING MINIMUM REQUIREMENTS:  
 A. WIDTH - 12' (14' SERVING MORE THAN ONE RESIDENCE);  
 B. SURFACE - 2" OF COMPACTED CRUSHER RUN BASE W/ TAR AND CHIP COATING (1 1/2" MIN);  
 C. GEOMETRY - MAX. 15% GRADE, MAX. 10% GRADE CHANGE AND MIN. 45' TURNING RADIUS;  
 D. STRUCTURES (CULVERTS/BRIDGES) - CAPABLE OF SUPPORTING 25 GROSS TONS (125,000 LBS);  
 E. DRAINAGE ELEMENTS - CAPABLE OF SAFELY PASSING 100-YEAR FLOOD WITH NO MORE THAN 1 FOOT DEPTH OVER DRIVEWAY SURFACE;  
 F. MAINTENANCE - SUFFICIENT TO INSURE ALL WEATHER USE.
5. THE TOTAL AREA INCLUDED IN THIS SUBMISSION IS 0.246 ACRES (4,993 S.F. OF L.O.D.).
6. THE TOTAL NUMBER OF LOTS IN THIS SUBMISSION IS 1.
7. IMPROVEMENTS TO PROPERTY: SINGLE FAMILY DETACHED.
8. DEPARTMENT OF PLANNING AND ZONING REFERENCE FILE NUMBERS ARE: DEED 230/07 DEED 465/98
9. NUMBER OF PARKING SPACES: 2 REQUIRED, 2 PROPOSED.
10. ANY DAMAGE TO COUNTY OWNED RIGHTS-OF-WAY SHALL BE CORRECTED AT THE DEVELOPER'S EXPENSE.
11. THE EXISTING TOPOGRAPHY SHOWN WAS TAKEN FROM H.O. CO. GIS.
12. THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS DIVISION OF CONSTRUCTION INSPECTION AT (410) 352-9800 AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE START OF WORK.
13. THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-287-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK.
14. BUILDING SQUARE FOOTAGE IS 1080 S.F. LOT COVERAGE IS 10%.
15. UPON THE ACQUISITION OF A FIFTH RESIDENTIAL USER TO THE USE-IN-COMMON DRIVEWAY INDICATED ON THIS DEVELOPMENT PLAN, IT MUST BE DEMONSTRATED THAT THE SHARED DRIVEWAY MEETS ALL STANDARDS MANDATED BY THE DESIGN MANUAL. THE DEVELOPER OF THE FIFTH LOT MUST SUBMIT AS-BUILT DRAWINGS DEMONSTRATING COMPLIANCE AND PERFORMING IF NECESSARY, ANY IMPROVEMENTS REQUIRED TO MEET THESE STANDARDS (IE, TRASH PAD, LANDSCAPE TREES, ETC.).
16. THE COORDINATES SHOWN HEREON ARE BASED UPON THE HOWARD COUNTY GEODETIC CONTROL WHICH IS BASED UPON THE MARYLAND STATE PLANE COORDINATE SYSTEM. HOWARD COUNTY MONUMENTS 3513 AND 4442 WERE USED FOR THIS PROJECT.
17. STORMWATER MANAGEMENT IS NOT REQUIRED FOR THIS DEVELOPMENT AS AREA OF DISTURBANCE IS LESS THAN 5000 SQUARE FEET.
18. UTILITIES ARE BASED ON GUILFORD ROAD WATER AND SEWER EXTENSION PLANS (CAPITAL PROJECT W-9899 AND CONTRACT NO. 34-3272).
19. EIC CONSTRUCTION ELEVATIONS SHOWN ARE TAKEN FROM CONTRACT 34-3272 AND LOCATED AT PROPERTY LINE.
20. FOR DRIVEWAY ENFORCEMENT DETAILS REFER TO THE HOWARD COUNTY DESIGN MANUAL, VOLUME 1, STANDARD DETAILS 6-2/5.

NOTE: SEE SHEET 2 OF 2 FOR SITE PLAN AND SITE CONTEXT

APPROVED: HOWARD COUNTY DEPT. OF PLANNING AND ZONING  
 Signature: John W. Little  
 DATE: 10/14/03  
 Signature: John W. Little  
 DATE: 10/17/03  
 Signature: John W. Little  
 DATE: 10/14/03

Date	No.	Revision Description

BUILDING DETAIL  
 N.T.S.  
 DATA SOURCES:  
 PROPERTY LINE INFORMATION TAKEN FROM BOUNDARY SURVEY PREPARED BY FISHER COLLINS & CARTER 6/29/00.  
 TOPOGRAPHY TAKEN FROM HOWARD COUNTY GIS INFORMATION (MAP 83) DATE OF CAPTURE IS 1998.2 CONTOURS INTERPOLATED BY DMW.

HABITAT FOR HUMANITY  
 8050 HARRIETT TUBMAN LANE  
 TAX MAP 35, GRID 24, PARCEL 132  
 5TH ELECTION DISTRICT, HO. CO. MD  
 OWNER/DEVELOPER  
 HABITAT FOR HUMANITY FOR HOWARD COUNTY, INC.  
 P.O. BOX 72  
 WEST FRIENDSHIP, MD 21794

DMW  
 Daft · McCune · Walker, Inc.  
 A Team of Land Planners, Landscape Architects, Engineers, Surveyors & Environmental Professionals  
 200 East Pennsylvania Avenue  
 Towson, Maryland 21286  
 410 296 3333  
 Fax 296 4705

PROFESSIONAL ENGINEER  
 Signature: John W. Little  
 DATE: 10/14/03  
 Signature: John W. Little  
 DATE: 10/17/03  
 Signature: John W. Little  
 DATE: 10/14/03



**SITE PLAN**  
SCALE: 1"=30'

NOTE: SEE SHEET 1 FOR LANDSCAPING, SEDIMENT AND EROSION CONTROL, ALL NOTES AND DETAILS.

APPROVED: HOWARD COUNTY DEPT. OF PLANNING AND ZONING  
 DIRECTOR: *[Signature]* DATE: 12/17/02  
 CHIEF, DIVISION OF LAND DEVELOPMENT: *[Signature]* DATE: 12/14/02  
 CHIEF, DEVELOPMENT ENGINEERING DIVISION: *[Signature]* DATE: 12/14/02

Date: No. Revision Description  
 HABITAT FOR HUMANITY  
 8050 HARRIETT TUBMAN LANE  
 TAX MAP 35, GRID 24, PARCEL 132  
 5TH ELECTION DISTRICT, HO. CO. MD

OWNER/DEVELOPER  
 HABITAT FOR HUMANITY FOR HOWARD COUNTY, INC.  
 P.O. BOX 72  
 WEST FRIENDSHIP, MD 21794

**DMW**  
**Daft · McCune · Walker, Inc.**  
 A Team of Land Planners, 200 East Pennsylvania Avenue  
 Landscape Architects, Towson, Maryland 21286  
 Engineers, Surveyors & 410 296 3333  
 Environmental Professionals Fax: 296 4705

PLAT OR LOT	BLOCK	ZONE	TAXING MAP	SECT. SYMBOL	GRID TRACT
Habitat for Humanity	24	R20	25	5 TH	6056-02
WATER CODE	SEWER CODE: 342-0000				

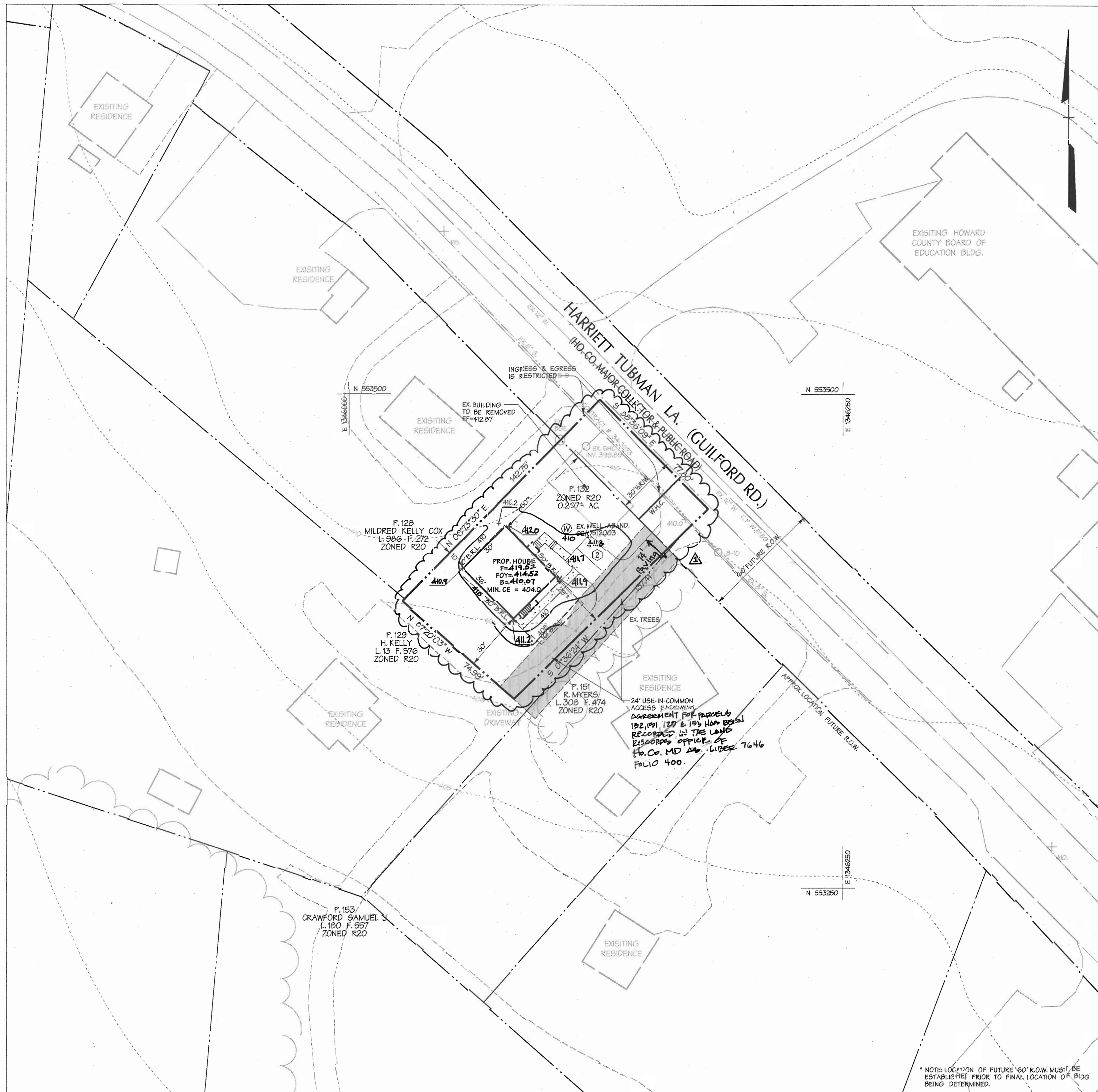
TITLE  
**SITE DEVELOPMENT PLAN**

Drn By:	ajs	Scale:	AS SHOWN	Proj. No.	03017.0
Des By:	mjp	Date:	6/03/03	<b>2 of 2</b>	
Chk By:	jwr	Approved:			

DATA SOURCES:  
 PROPERTY LINE INFORMATION TAKEN FROM BOUNDARY SURVEY PREPARED BY FISHER COLLINS & CARTER 6/28/00.  
 TOPOGRAPHY TAKEN FROM HOWARD COUNTY GIS INFORMATION (MAD 83) DATE OF CAPTURE IS 1998. 2' CONTOURS INTERPOLATED BY DMW.

9/14/03  
 Date

Professional Engr. No. 04591



**SITE PLAN**  
SCALE: 1"=30'

\*NOTE: LOCATION OF FUTURE '60' R.O.W. MUST BE ESTABLISHED PRIOR TO FINAL LOCATION OF BLDG BEING DETERMINED.

NOTE: SEE SHEET 1 FOR LANDSCAPING, SEDIMENT AND EROSION CONTROL, ALL NOTES AND DETAILS.

APPROVED: HOWARD COUNTY DEPT. OF PLANNING AND ZONING  
 DIRECTOR: *[Signature]* DATE: 12/17/02  
 CHIEF, DIVISION OF LAND DEVELOPMENT: *[Signature]* DATE: 12/14/02  
 ENGINEER: *[Signature]* DATE: 12/14/02

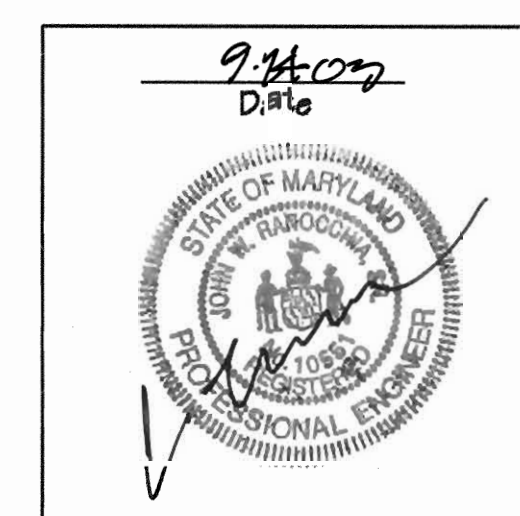
Date	No.	Revision Description
		REVISE HOUSE ELEVATION.

**HABITAT FOR HUMANITY**  
 8050 HARRIETT TUBMAN LANE  
 TAX MAP 35, GRID 24, PARCEL 132  
 5TH ELECTION DISTRICT, HO. CO. MD

**OWNER/DEVELOPER**  
 HABITAT FOR HUMANITY FOR HOWARD COUNTY, INC.  
 P.O. BOX 72  
 WEST FRIENDSHIP, MD 21794

**DMW**  
 Datt, McCune, Walker, Inc.  
 A team of Land Planners, Landscape Architects, Engineers, Surveyors & Environmental Professionals  
 200 East Pennsylvania Avenue  
 Towson, Maryland 21286  
 410 286 3333  
 Fax 286 4735

**DATA SOURCES:**  
 PROPERTY LINE INFORMATION TAKEN FROM BOUNDARY SURVEY PREPARED BY FISHER COLLINS & CARTER 6/28/00.  
 TOPOGRAPHY TAKEN FROM HOWARD COUNTY GIS INFORMATION (MAP DATE OF CAPTURE IS 1998.2' CONTOURS INTERPOLATED BY DMW).



PROJECT NAME	SECTION AREA	LOT/PARCEL #
Habitat for Humanity	8050	132
PLAT OR LOT #	BLOCK #	TAXING MAP
24	R20	35
WATER CO. #	GRID	TH
	5	TH
	342-C-00C	

**TITLE**  
 SITE DEVELOPMENT PLAN

Drn By: ajs Scale: AS SHOWN Proj. No. 0307.0  
 Des By: mjp Date: 6/03/03  
 Chk By: jwr Approv:

Professional Engr. No. 04591

21.0 STANDARD AND SPECIFICATIONS FOR TOPSOIL

**DEFINITION**  
PLACEMENT OF TOPSOIL OVER A PREPARED SUBSOIL PRIOR TO ESTABLISHMENT OF PERMANENT VEGETATION.

**PURPOSE**  
TO PROVIDE A SUITABLE SOIL MEDIUM FOR VEGETATIVE GROWTH, SOILS OF CONCERN HAVE LOW MOISTURE CONTENT, LOW NUTRIENT LEVELS, LOW PH, MATERIALS TOXIC TO PLANTS, AND/OR UNACCEPTABLE SOIL GRADATION.

**CONDITIONS WHERE PRACTICE APPLIES**

- THIS PRACTICE IS LIMITED TO AREAS HAVING 2:1 OR FLATTER SLOPES WHERE:
  - THE TEXTURE OF THE EXPOSED SUBSOIL MATERIAL IS NOT ADEQUATE TO PRODUCE VEGETATIVE GROWTH.
  - THE SOIL MATERIAL IS SO SHALLOW THAT THE ROOTING ZONE IS NOT DEEP ENOUGH TO SUPPORT PLANTS OR FURNISH CONTINUOUS SUPPLIES OF MOISTURE AND PLANT NUTRIENTS.
  - THE ORIGINAL SOIL TO BE VEGETATED CONTAINS MATERIAL TOXIC TO PLANT GROWTH.
  - THE SOIL IS SO ACIDIC THAT TREATMENT WITH LIMESTONE IS NOT FEASIBLE.
- FOR THE PURPOSES 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 PLAN.

**CONSTRUCTION AND MATERIAL SPECIFICATIONS**

- TOPSOIL SALVAGES 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 SOIL TYPE CAN BE FOUND IN THE REPRESENTATIVE SOIL PROFILE SECTION IN THE SOIL SURVEY MAP OF 1984-89 IN COOPERATION WITH MARYLAND AGRICULTURAL EXPERIMENTAL STATION.
- TOPSOIL SPECIFICATIONS - SOIL TO BE USED AS TOPSOIL MUST MEET THE FOLLOWING:
  - 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 AGRICULTURAL AUTHORITY. RESOURCES SHOULD NOT BE A MIXTURE OF CONTRASTING TEXTURED SOILS AND SHALL CONTAIN LESS THAN 5% BY VOLUME OF COBBLES, STONES, GRAVEL, FRAGMENTS, GRAVEL, STONES, ROOTS, TRASH, OR OTHER MATERIALS LARGER THAN 1/2" IN DIAMETER.
  - TOPSOIL MUST BE FREE OF PLANTS OR PLANT PARTS SUCH AS BERBERIS GRASS, QUACKGRASS, JOHNSONGRASS, NITROBEN, POISON IVY, THISTLE, OR OTHERS AS SPECIFIED.
  - WHERE THE SUBSOIL IS EITHER HEAVILY ACIDIC OR COMPOSED OF HEAVY CLAYS, GROUND LIMESTONE SHALL BE SPREAD AT THE RATE OF 4-8 TONS/ACRE (200-400 POUNDS PER 1000 SQUARE FEET) PRIOR TO THE PLACEMENT OF TOPSOIL. LIME SHALL BE DISTRIBUTED UNIFORMLY OVER THE SOIL IN CONJUNCTION WITH TILLAGE OPERATIONS AS DESCRIBED IN THE FOLLOWING PROCEDURES.
  - FOR SITES HAVING DISTURBED AREAS UNDER 5 ACRES:
    - ON SOIL MEETING TOPSOIL SPECIFICATIONS, OBTAIN TEST RESULTS DICTATING FERTILIZER AND LIME AMOUNTS REQUIRED TO BRING THE SOIL INTO COMPLIANCE WITH THE FOLLOWING:
      - PH FOR TOPSOIL SHALL BE BETWEEN 6.0 AND 7.5. IF THE TESTED SOIL DEMONSTRATES A PH OF LESS THAN 6.0, THE TOPSOIL LIME SHALL BE PRESCRIBED TO RAISE THE PH TO 6.5 OR HIGHER.
      - 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.
      - NO SOIL OR SEED SHALL BE PLACED ON SOIL WHICH HAS BEEN TREATED WITH SOIL STERILANTS OR CHEMICALS USED FOR WEED CONTROL UNLESS SUFFICIENT TIME HAS ELAPSED (4 DAYS MIN.) TO PERMIT DISSIPATION OF PHYTO-TOXIC MATERIALS.
    - NOTE: TOPSOIL SUBSTITUTES OR AMENDMENTS, AS RECOMMENDED BY A QUALIFIED AGRONOMIST OR SOIL SCIENTIST AND APPROVED BY THE APPROPRIATE APPROVAL AUTHORITY, MAY BE USED IN LIEU OF NATURAL TOPSOIL.
  - PLACE TOPSOIL OF SPECIFIED AND APPLY SOIL AMENDMENTS AS SPECIFIED IN 20.0 VEGETATIVE STABILIZATION - SECTION 1 - VEGETATIVE STABILIZATION METHODS AND MATERIALS.
- TOPSOIL APPLICATION
  - WHEN TOPSOILING, MAINLINE NEEDED EROSION AND SEDIMENT CONTROL PRACTICES SUCH AS DISERSIONS, GRADE STABILIZATION STRUCTURES, EARTH DIKES, SLOPE SILT FENCE AND SEDIMENT TRAPS AND SLOPE PROTECTIVE STRUCTURES.
  - GRADES ON THE AREAS TO BE TOPSOILED, WHICH HAVE BEEN PREVIOUSLY ESTABLISHED, SHALL BE MAINTAINED, ALBERT 4" - 6" HIGHER IN ELEVATION.
  - TOPSOIL SHALL BE UNIFORMLY DISTRIBUTED IN A 4" - 6" LAYER AND LIGHTLY COMPACTED TO A MINIMUM DEPTH OF 4". SPREADING SHALL BE PERFORMED IN SUCH A MANNER THAT SODDING OR SEEDING CAN OCCUR WITH A MINIMUM OF ADDITIONAL SOIL PREPARATION AND TILLAGE. ALL DISTURBANCES IN THE SURFACE RESULTING FROM TOPSOILING OR OTHER OPERATIONS SHALL BE CORRECTED IN ORDER TO PREVENT THE FORMATION OF DEPRESSIONS OR WATER POCKETS.
  - TOPSOIL SHALL NOT BE PLACED WHILE THE TOPSOIL OR SUBSOIL IS IN A FROZEN OR MOIST CONDITION, WHEN THE SUBSOIL IS EXCESSIVELY WET OR IN A CONDITION THAT MAY PROMOTE OR CONTRIBUTE TO PROPER GRADING AND PROPER PREPARATION.
- ALTERNATIVE FOR PERMANENT SEEDING - INSTEAD OF APPLYING THE FULL AMOUNTS OF LIME AND COMMERCIAL FERTILIZER, COVERED SLOPES AND AMENDMENTS MAY BE APPLIED AS SPECIFIED BELOW.
  - COMPOSTED SLUDGE MATERIAL FOR USE AS A SOIL CONDITIONER FOR SITES HAVING DISTURBED AREAS OVER 5 ACRES SHALL BE TESTED TO PRESCRIBE AMENDMENTS AND FOR SITES HAVING DISTURBED AREAS UNDER 5 ACRES SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:
    - 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 20MAR 20.04.05.
    - 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.
    - COMPOSTED SLUDGE SHALL BE APPLIED AT A RATE OF 1 TON/1000 SQUARE FEET.
    - COMPOSTED SLUDGE SHALL BE AMENDED WITH A POTASSIUM FERTILIZER APPLIED AT A RATE OF 4 LBS/1000 SQUARE FEET, AND 1/2 THE NORMAL LIME APPLICATION RATE.

REFERENCES: GUIDELINES SPECIFICATIONS, SOIL PREPARATION AND SODDING, MD-VA, PUB. #1, COOPERATIVE EXTENSION SERVICE, UNIVERSITY OF MARYLAND AND VIRGINIA POLYTECHNIC INSTITUTE, REVISED 1976.

PERMANENT SEEDING NOTES:  
APPLY TO GRADED OR CLEARED AREAS, BUT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG-LIVED VEGETATIVE COVER IS NEEDED.

SEEDING PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISKING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED.

SOIL AMENDMENTS: IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ONE OF THE FOLLOWING SCHEDULES:

LIME/SEEDER - APPLY 2 TONS PER ACRE DOLOMITE LIMESTONE (82 LBS./1000 SQ. FT.) AND 100 LBS. PER ACRE 10-10-10 FERTILIZER (2 LBS./1000 SQ. FT.) BEFORE SEEDING. HARROW OR DISK INTO UPPER THREE INCHES OF SOIL. AT TIME OF SEEDING, APPLY 400 LBS. PER ACRE 30-0-0 UREA FORM FERTILIZER (9 LBS./1000 SQ. FT.).

FERTILIZER/SEEDER - APPLY 2 TONS PER ACRE DOLOMITE LIMESTONE (82 LBS./1000 SQ. FT.) AND 100 LBS. PER ACRE 10-10-10 FERTILIZER (2 LBS./1000 SQ. FT.) BEFORE SEEDING. HARROW OR DISK INTO UPPER THREE INCHES OF SOIL.

SEEDING - FOR THE PERIODS MARCH 1 THROUGH APRIL 30, AND AUGUST 1 THROUGH OCTOBER 15, SEED WITH 80 LBS. PER ACRE (1/4 LBS./1000 SQ. FT.) OF KENTUCKY 31 ALL PLS. RUE. FOR THE PERIOD MAY 1 THROUGH JULY 1, SEED WITH 60 LBS. PER ACRE (1/4 LBS./1000 SQ. FT.) OF KENTUCKY 31 ALL PLS. RUE AND 2 LBS. PER ACRE (2 LBS./1000 SQ. FT.) OF WEEPING LOVEGRASS (27 LBS./1000 SQ. FT.) FOR THE PERIOD OCTOBER 15 THROUGH FEBRUARY 28. PROTECT SITE BY APPLYING 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING. OPTION (2) - USE 10 LBS. PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING. OPTION (3) - SEED WITH 60 LBS./ACRE KENTUCKY 31 ALL PLS. RUE AND MULCH WITH 2 TONS/ACRE WELL ANCHORED STRAW.

MULCHING - APPLY 1/2 TO 2 TONS PER ACRE (70 - 80 LBS./1000 SQ. FT.) OF UNROTTED WOOD GRASS STRAW IMMEDIATELY AFTER SEEDING. HARROW MULCH IMMEDIATELY AFTER APPLICATIONS USING MULCH ANCHORING TOOL OR 210 POUNDS PER ACRE (5 GALLONS/SQ. FT.) OF EMULSIFIED ASPHALT ON 2:1 SLOPES OR SLOPES 1:1 FEET OR HIGHER. USE 540 GALLONS PER ACRE (5 GALLONS/SQ. FT.) FOR ANCHORING.

MAINTENANCE - INSPECT ALL SEEDING AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDING.

TEMPORARY SEEDING NOTES:  
APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE REDISTURBED WHERE A SHORT-TERM VEGETATIVE COVER IS NEEDED.

SEEDING PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISKING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED.

SOIL AMENDMENTS - APPLY 600 LBS. PER ACRE 10-10-10 FERTILIZER (4 LBS./1000 SQ. FT.).

SEEDING - FOR THE PERIODS MARCH 1 THROUGH APRIL 30, AND AUGUST 1 THROUGH OCTOBER 15, SEED WITH 80 LBS. PER ACRE (1/4 LBS./1000 SQ. FT.) OF KENTUCKY 31 ALL PLS. RUE. FOR THE PERIOD MAY 1 THROUGH JULY 1, SEED WITH 60 LBS. PER ACRE (1/4 LBS./1000 SQ. FT.) OF KENTUCKY 31 ALL PLS. RUE AND 2 LBS. PER ACRE (2 LBS./1000 SQ. FT.) OF WEEPING LOVEGRASS (27 LBS./1000 SQ. FT.) FOR THE PERIOD OCTOBER 15 THROUGH FEBRUARY 28. PROTECT SITE BY APPLYING 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING. OPTION (2) - USE 10 LBS. PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING. OPTION (3) - SEED WITH 60 LBS./ACRE KENTUCKY 31 ALL PLS. RUE AND MULCH WITH 2 TONS/ACRE WELL ANCHORED STRAW.

MULCHING - APPLY 1/2 TO 2 TONS PER ACRE (70 - 80 LBS./1000 SQ. FT.) OF UNROTTED WOOD GRASS STRAW IMMEDIATELY AFTER SEEDING. HARROW MULCH IMMEDIATELY AFTER APPLICATIONS USING MULCH ANCHORING TOOL OR 210 POUNDS PER ACRE (5 GALLONS/SQ. FT.) OF EMULSIFIED ASPHALT ON 2:1 SLOPES OR SLOPES 1:1 FEET OR HIGHER. USE 540 GALLONS PER ACRE (5 GALLONS/SQ. FT.) FOR ANCHORING.

MAINTENANCE - INSPECT ALL SEEDING AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDING.

TEMPORARY SEEDING NOTES:  
APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE REDISTURBED WHERE A SHORT-TERM VEGETATIVE COVER IS NEEDED.

SEEDING PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISKING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED.

SOIL AMENDMENTS - APPLY 600 LBS. PER ACRE 10-10-10 FERTILIZER (4 LBS./1000 SQ. FT.).

SEEDING - FOR THE PERIODS MARCH 1 THROUGH APRIL 30, AND AUGUST 1 THROUGH OCTOBER 15, SEED WITH 80 LBS. PER ACRE (1/4 LBS./1000 SQ. FT.) OF KENTUCKY 31 ALL PLS. RUE. FOR THE PERIOD MAY 1 THROUGH JULY 1, SEED WITH 60 LBS. PER ACRE (1/4 LBS./1000 SQ. FT.) OF KENTUCKY 31 ALL PLS. RUE AND 2 LBS. PER ACRE (2 LBS./1000 SQ. FT.) OF WEEPING LOVEGRASS (27 LBS./1000 SQ. FT.) FOR THE PERIOD OCTOBER 15 THROUGH FEBRUARY 28. PROTECT SITE BY APPLYING 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING. OPTION (2) - USE 10 LBS. PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING. OPTION (3) - SEED WITH 60 LBS./ACRE KENTUCKY 31 ALL PLS. RUE AND MULCH WITH 2 TONS/ACRE WELL ANCHORED STRAW.

MULCHING - APPLY 1/2 TO 2 TONS PER ACRE (70 - 80 LBS./1000 SQ. FT.) OF UNROTTED WOOD GRASS STRAW IMMEDIATELY AFTER SEEDING. HARROW MULCH IMMEDIATELY AFTER APPLICATIONS USING MULCH ANCHORING TOOL OR 210 POUNDS PER ACRE (5 GALLONS/SQ. FT.) OF EMULSIFIED ASPHALT ON 2:1 SLOPES OR SLOPES 1:1 FEET OR HIGHER. USE 540 GALLONS PER ACRE (5 GALLONS/SQ. FT.) FOR ANCHORING.

MAINTENANCE - INSPECT ALL SEEDING AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDING.

TEMPORARY SEEDING NOTES:  
APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE REDISTURBED WHERE A SHORT-TERM VEGETATIVE COVER IS NEEDED.

SEEDING PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISKING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED.

SOIL AMENDMENTS - APPLY 600 LBS. PER ACRE 10-10-10 FERTILIZER (4 LBS./1000 SQ. FT.).

SEEDING - FOR THE PERIODS MARCH 1 THROUGH APRIL 30, AND AUGUST 1 THROUGH OCTOBER 15, SEED WITH 80 LBS. PER ACRE (1/4 LBS./1000 SQ. FT.) OF KENTUCKY 31 ALL PLS. RUE. FOR THE PERIOD MAY 1 THROUGH JULY 1, SEED WITH 60 LBS. PER ACRE (1/4 LBS./1000 SQ. FT.) OF KENTUCKY 31 ALL PLS. RUE AND 2 LBS. PER ACRE (2 LBS./1000 SQ. FT.) OF WEEPING LOVEGRASS (27 LBS./1000 SQ. FT.) FOR THE PERIOD OCTOBER 15 THROUGH FEBRUARY 28. PROTECT SITE BY APPLYING 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING. OPTION (2) - USE 10 LBS. PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING. OPTION (3) - SEED WITH 60 LBS./ACRE KENTUCKY 31 ALL PLS. RUE AND MULCH WITH 2 TONS/ACRE WELL ANCHORED STRAW.

MULCHING - APPLY 1/2 TO 2 TONS PER ACRE (70 - 80 LBS./1000 SQ. FT.) OF UNROTTED WOOD GRASS STRAW IMMEDIATELY AFTER SEEDING. HARROW MULCH IMMEDIATELY AFTER APPLICATIONS USING MULCH ANCHORING TOOL OR 210 POUNDS PER ACRE (5 GALLONS/SQ. FT.) OF EMULSIFIED ASPHALT ON 2:1 SLOPES OR SLOPES 1:1 FEET OR HIGHER. USE 540 GALLONS PER ACRE (5 GALLONS/SQ. FT.) FOR ANCHORING.

MAINTENANCE - INSPECT ALL SEEDING AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDING.

TEMPORARY SEEDING NOTES:  
APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE REDISTURBED WHERE A SHORT-TERM VEGETATIVE COVER IS NEEDED.

SEEDING PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISKING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED.

SOIL AMENDMENTS - APPLY 600 LBS. PER ACRE 10-10-10 FERTILIZER (4 LBS./1000 SQ. FT.).

SEEDING - FOR THE PERIODS MARCH 1 THROUGH APRIL 30, AND AUGUST 1 THROUGH OCTOBER 15, SEED WITH 80 LBS. PER ACRE (1/4 LBS./1000 SQ. FT.) OF KENTUCKY 31 ALL PLS. RUE. FOR THE PERIOD MAY 1 THROUGH JULY 1, SEED WITH 60 LBS. PER ACRE (1/4 LBS./1000 SQ. FT.) OF KENTUCKY 31 ALL PLS. RUE AND 2 LBS. PER ACRE (2 LBS./1000 SQ. FT.) OF WEEPING LOVEGRASS (27 LBS./1000 SQ. FT.) FOR THE PERIOD OCTOBER 15 THROUGH FEBRUARY 28. PROTECT SITE BY APPLYING 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING. OPTION (2) - USE 10 LBS. PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING. OPTION (3) - SEED WITH 60 LBS./ACRE KENTUCKY 31 ALL PLS. RUE AND MULCH WITH 2 TONS/ACRE WELL ANCHORED STRAW.

MULCHING - APPLY 1/2 TO 2 TONS PER ACRE (70 - 80 LBS./1000 SQ. FT.) OF UNROTTED WOOD GRASS STRAW IMMEDIATELY AFTER SEEDING. HARROW MULCH IMMEDIATELY AFTER APPLICATIONS USING MULCH ANCHORING TOOL OR 210 POUNDS PER ACRE (5 GALLONS/SQ. FT.) OF EMULSIFIED ASPHALT ON 2:1 SLOPES OR SLOPES 1:1 FEET OR HIGHER. USE 540 GALLONS PER ACRE (5 GALLONS/SQ. FT.) FOR ANCHORING.

MAINTENANCE - INSPECT ALL SEEDING AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDING.

TEMPORARY SEEDING NOTES:  
APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE REDISTURBED WHERE A SHORT-TERM VEGETATIVE COVER IS NEEDED.

SEEDING PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISKING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED.

SOIL AMENDMENTS - APPLY 600 LBS. PER ACRE 10-10-10 FERTILIZER (4 LBS./1000 SQ. FT.).

SEEDING - FOR THE PERIODS MARCH 1 THROUGH APRIL 30, AND AUGUST 1 THROUGH OCTOBER 15, SEED WITH 80 LBS. PER ACRE (1/4 LBS./1000 SQ. FT.) OF KENTUCKY 31 ALL PLS. RUE. FOR THE PERIOD MAY 1 THROUGH JULY 1, SEED WITH 60 LBS. PER ACRE (1/4 LBS./1000 SQ. FT.) OF KENTUCKY 31 ALL PLS. RUE AND 2 LBS. PER ACRE (2 LBS./1000 SQ. FT.) OF WEEPING LOVEGRASS (27 LBS./1000 SQ. FT.) FOR THE PERIOD OCTOBER 15 THROUGH FEBRUARY 28. PROTECT SITE BY APPLYING 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING. OPTION (2) - USE 10 LBS. PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING. OPTION (3) - SEED WITH 60 LBS./ACRE KENTUCKY 31 ALL PLS. RUE AND MULCH WITH 2 TONS/ACRE WELL ANCHORED STRAW.

MULCHING - APPLY 1/2 TO 2 TONS PER ACRE (70 - 80 LBS./1000 SQ. FT.) OF UNROTTED WOOD GRASS STRAW IMMEDIATELY AFTER SEEDING. HARROW MULCH IMMEDIATELY AFTER APPLICATIONS USING MULCH ANCHORING TOOL OR 210 POUNDS PER ACRE (5 GALLONS/SQ. FT.) OF EMULSIFIED ASPHALT ON 2:1 SLOPES OR SLOPES 1:1 FEET OR HIGHER. USE 540 GALLONS PER ACRE (5 GALLONS/SQ. FT.) FOR ANCHORING.

MAINTENANCE - INSPECT ALL SEEDING AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDING.

TEMPORARY SEEDING NOTES:  
APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE REDISTURBED WHERE A SHORT-TERM VEGETATIVE COVER IS NEEDED.

SEEDING PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISKING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED.

SOIL AMENDMENTS - APPLY 600 LBS. PER ACRE 10-10-10 FERTILIZER (4 LBS./1000 SQ. FT.).

SEEDING - FOR THE PERIODS MARCH 1 THROUGH APRIL 30, AND AUGUST 1 THROUGH OCTOBER 15, SEED WITH 80 LBS. PER ACRE (1/4 LBS./1000 SQ. FT.) OF KENTUCKY 31 ALL PLS. RUE. FOR THE PERIOD MAY 1 THROUGH JULY 1, SEED WITH 60 LBS. PER ACRE (1/4 LBS./1000 SQ. FT.) OF KENTUCKY 31 ALL PLS. RUE AND 2 LBS. PER ACRE (2 LBS./1000 SQ. FT.) OF WEEPING LOVEGRASS (27 LBS./1000 SQ. FT.) FOR THE PERIOD OCTOBER 15 THROUGH FEBRUARY 28. PROTECT SITE BY APPLYING 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING. OPTION (2) - USE 10 LBS. PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING. OPTION (3) - SEED WITH 60 LBS./ACRE KENTUCKY 31 ALL PLS. RUE AND MULCH WITH 2 TONS/ACRE WELL ANCHORED STRAW.

MULCHING - APPLY 1/2 TO 2 TONS PER ACRE (70 - 80 LBS./1000 SQ. FT.) OF UNROTTED WOOD GRASS STRAW IMMEDIATELY AFTER SEEDING. HARROW MULCH IMMEDIATELY AFTER APPLICATIONS USING MULCH ANCHORING TOOL OR 210 POUNDS PER ACRE (5 GALLONS/SQ. FT.) OF EMULSIFIED ASPHALT ON 2:1 SLOPES OR SLOPES 1:1 FEET OR HIGHER. USE 540 GALLONS PER ACRE (5 GALLONS/SQ. FT.) FOR ANCHORING.

MAINTENANCE - INSPECT ALL SEEDING AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDING.

TEMPORARY SEEDING NOTES:  
APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE REDISTURBED WHERE A SHORT-TERM VEGETATIVE COVER IS NEEDED.

SEEDING PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISKING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED.

SOIL AMENDMENTS - APPLY 600 LBS. PER ACRE 10-10-10 FERTILIZER (4 LBS./1000 SQ. FT.).

SEEDING - FOR THE PERIODS MARCH 1 THROUGH APRIL 30, AND AUGUST 1 THROUGH OCTOBER 15, SEED WITH 80 LBS. PER ACRE (1/4 LBS./1000 SQ. FT.) OF KENTUCKY 31 ALL PLS. RUE. FOR THE PERIOD MAY 1 THROUGH JULY 1, SEED WITH 60 LBS. PER ACRE (1/4 LBS./1000 SQ. FT.) OF KENTUCKY 31 ALL PLS. RUE AND 2 LBS. PER ACRE (2 LBS./1000 SQ. FT.) OF WEEPING LOVEGRASS (27 LBS./1000 SQ. FT.) FOR THE PERIOD OCTOBER 15 THROUGH FEBRUARY 28. PROTECT SITE BY APPLYING 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING. OPTION (2) - USE 10 LBS. PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING. OPTION (3) - SEED WITH 60 LBS./ACRE KENTUCKY 31 ALL PLS. RUE AND MULCH WITH 2 TONS/ACRE WELL ANCHORED STRAW.

MULCHING - APPLY 1/2 TO 2 TONS PER ACRE (70 - 80 LBS./1000 SQ. FT.) OF UNROTTED WOOD GRASS STRAW IMMEDIATELY AFTER SEEDING. HARROW MULCH IMMEDIATELY AFTER APPLICATIONS USING MULCH ANCHORING TOOL OR 210 POUNDS PER ACRE (5 GALLONS/SQ. FT.) OF EMULSIFIED ASPHALT ON 2:1 SLOPES OR SLOPES 1:1 FEET OR HIGHER. USE 540 GALLONS PER ACRE (5 GALLONS/SQ. FT.) FOR ANCHORING.

MAINTENANCE - INSPECT ALL SEEDING AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDING.

TEMPORARY SEEDING NOTES:  
APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE REDISTURBED WHERE A SHORT-TERM VEGETATIVE COVER IS NEEDED.

SEEDING PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISKING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED.

SOIL AMENDMENTS - APPLY 600 LBS. PER ACRE 10-10-10 FERTILIZER (4 LBS./1000 SQ. FT.).

SEEDING - FOR THE PERIODS MARCH 1 THROUGH APRIL 30, AND AUGUST 1 THROUGH OCTOBER 15, SEED WITH 80 LBS. PER ACRE (1/4 LBS./1000 SQ. FT.) OF KENTUCKY 31 ALL PLS. RUE. FOR THE PERIOD MAY 1 THROUGH JULY 1, SEED WITH 60 LBS. PER ACRE (1/4 LBS./1000 SQ. FT.) OF KENTUCKY 31 ALL PLS. RUE AND 2 LBS. PER ACRE (2 LBS./1000 SQ. FT.) OF WEEPING LOVEGRASS (27 LBS./1000 SQ. FT.) FOR THE PERIOD OCTOBER 15 THROUGH FEBRUARY 28. PROTECT SITE BY APPLYING 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING. OPTION (2) - USE 10 LBS. PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING. OPTION (3) - SEED WITH 60 LBS./ACRE KENTUCKY 31 ALL PLS. RUE AND MULCH WITH 2 TONS/ACRE WELL ANCHORED STRAW.

MULCHING - APPLY 1/2 TO 2 TONS PER ACRE (70 - 80 LBS./1000 SQ. FT.) OF UNROTTED WOOD GRASS STRAW IMMEDIATELY AFTER SEEDING. HARROW MULCH IMMEDIATELY AFTER APPLICATIONS USING MULCH ANCHORING TOOL OR 210 POUNDS PER ACRE (5 GALLONS/SQ. FT.) OF EMULSIFIED ASPHALT ON 2:1 SLOPES OR SLOPES 1:1 FEET OR HIGHER. USE 540 GALLONS PER ACRE (5 GALLONS/SQ. FT.) FOR ANCHORING.

MAINTENANCE - INSPECT ALL SEEDING AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDING.

TEMPORARY SEEDING NOTES:  
APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE REDISTURBED WHERE A SHORT-TERM VEGETATIVE COVER IS NEEDED.

SEEDING PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISKING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED.

SOIL AMENDMENTS - APPLY 600 LBS. PER ACRE 10-10-10 FERTILIZER (4 LBS./1000 SQ. FT.).

SEEDING - FOR THE PERIODS MARCH 1 THROUGH APRIL 30, AND AUGUST 1 THROUGH OCTOBER 15, SEED WITH 80 LBS. PER ACRE (1/4 LBS./1000 SQ. FT.) OF KENTUCKY 31 ALL PLS. RUE. FOR THE PERIOD MAY 1 THROUGH JULY 1, SEED WITH 60 LBS. PER ACRE (1/4 LBS./1000 SQ. FT.) OF KENTUCKY 31 ALL PLS. RUE AND 2 LBS. PER ACRE (2 LBS./1000 SQ. FT.) OF WEEPING LOVEGRASS (27 LBS./1000 SQ. FT.) FOR THE PERIOD OCTOBER 15 THROUGH FEBRUARY 28. PROTECT SITE BY APPLYING 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING. OPTION (2) - USE 10 LBS. PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING. OPTION (3) - SEED WITH 60 LBS./ACRE KENTUCKY 31 ALL PLS. RUE AND MULCH WITH 2 TONS/ACRE WELL ANCHORED STRAW.

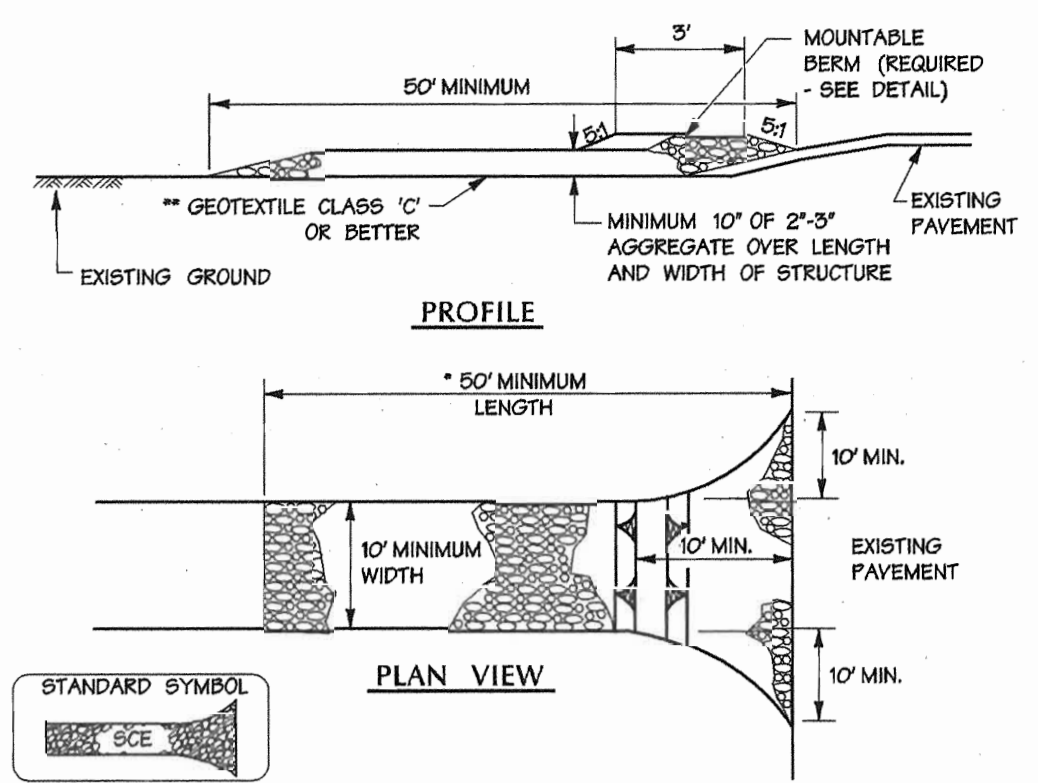
MULCHING - APPLY 1/2 TO 2 TONS PER ACRE (70 - 80 LBS./1000 SQ. FT.) OF UNROTTED WOOD GRASS STRAW IMMEDIATELY AFTER SEEDING. HARROW MULCH IMMEDIATELY AFTER APPLICATIONS USING MULCH ANCHORING TOOL OR 210 POUNDS PER ACRE (5 GALLONS/SQ. FT.) OF EMULSIFIED ASPHALT ON 2:1 SLOPES OR SLOPES 1:1 FEET OR HIGHER. USE 540 GALLONS PER ACRE (5 GALLONS/SQ. FT.) FOR ANCHORING.

MAINTENANCE - INSPECT ALL SEEDING AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDING.

TEMPORARY SEEDING NOTES:  
APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE REDISTURBED WHERE A SHORT-TERM VEGETATIVE COVER IS NEEDED.

SEEDING PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISKING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED.

SOIL AMENDMENTS - APPLY 600 LBS. PER ACRE 10-10-10 FERTILIZER (4 LBS./1000 SQ. FT.).

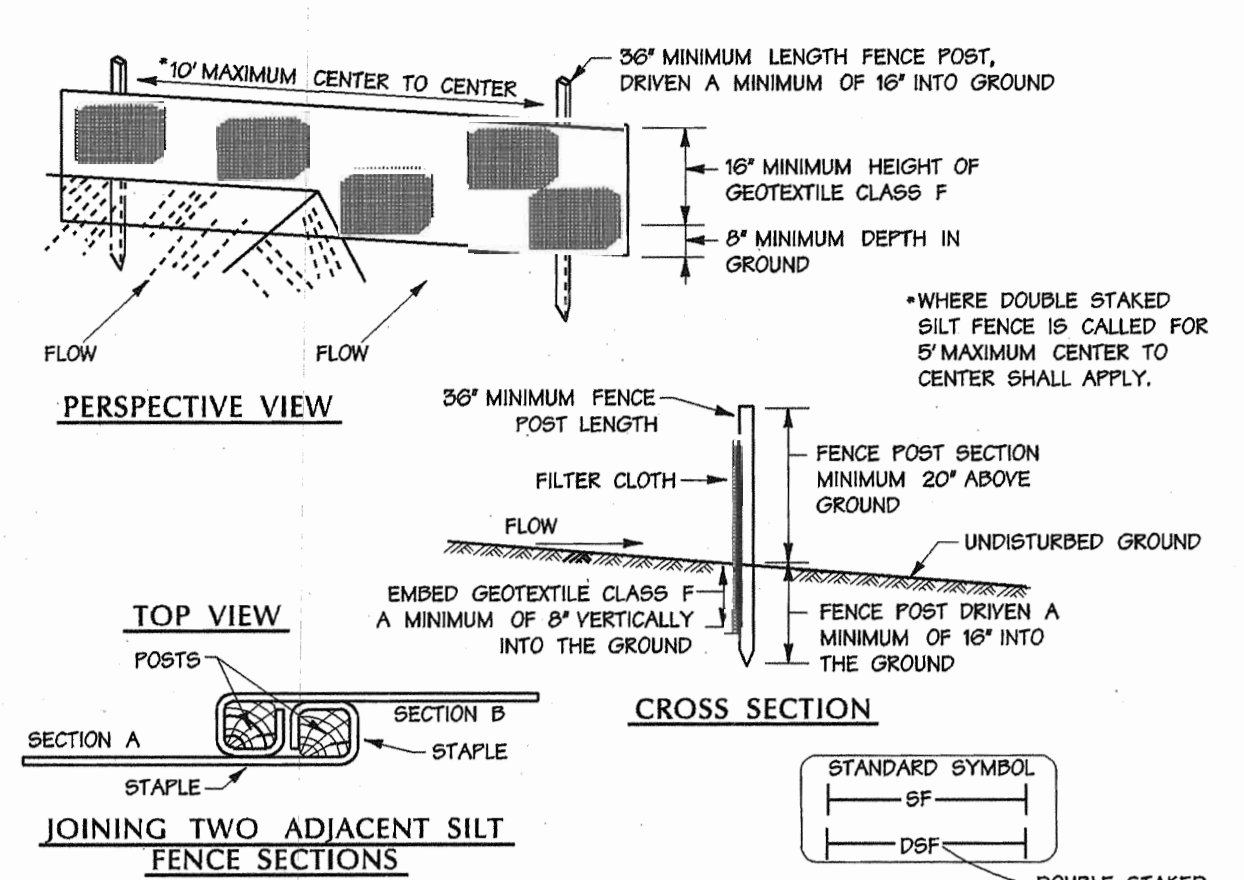


CONSTRUCTION SPECIFICATIONS

- STONE - CRUSHED AGGREGATE (2" TO 3") OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
- LENGTH - AS REQUIRED, BUT NOT LESS THAN 50 FEET (EXCEPT ON SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WILL APPLY).
- THICKNESS - NOT LESS THAN TEN (10) INCHES.
- WIDTH - TEN (10) FOOT MINIMUM, BUT LESS THAN FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
- GEOTEXTILE FABRIC CLASS 'C' OR BETTER SHALL BE PLACED OVER THE EXISTING GROUND PRIOR TO PLACING OF STONE. GEOTEXTILE FABRIC WILL NOT BE REQUIRED ON A SINGLE FAMILY RESIDENT LOT.
- A MOUNTABLE BERM WITH SLOPES IS REQUIRED FOR ALL SURFACE WATER FLOWING OR DIVERTED TOWARDS CONSTRUCTION ENTRANCE.
- MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT-OF-WAY MUST BE REMOVED IMMEDIATELY.
- WASHING - WHEELS MUST BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAIN INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
- PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

Heavy Duty Stabilized Construction Entrance Not To Scale



CONSTRUCTION SPECIFICATIONS

- FENCE POSTS SHALL BE A MINIMUM OF 36" LONG DRIVEN 18" MINIMUM INTO THE GROUND. WOOD POSTS SHALL BE 1 1/2" X 1 1/2" SQUARE (MINIMUM CUT OR 1 1/2" DIAMETER (MINIMUM) ROUND AND SHALL BE OF SOUND QUALITY HARDWOOD. STEEL POSTS WILL BE STANDARD T OR U SECTION WEIGHING NOT LESS THAN 100 POUND PER LINEAR FOOT.
- GEOTEXTILE SHALL BE FASTENED SECURELY TO EACH FENCE POST WITH WIRE TIES OR STAPLES AT TOP AND MID-SECTION AND SHALL MEET THE FOLLOWING REQUIREMENTS FOR GEOTEXTILE CLASS F:
  - TENSILE STRENGTH 50 LBS/IN (MIN)
  - TENSILE MODULUS