#### **GENERAL NOTES** SITE DEVELOPMENT PLAN 1. THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO 2. THE CONTRACTOR IS TO NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE DAYS BEFORE STARTING WORK ON THESE DRAWINGS: 1-800-257-7777 MISS UTILITY BELL ATLANTIC TELEPHONE CO. 725-9976 HOWARD COUNTY BUREAU OF UTILITIES: 313-2366 HENLINE PROPERTY 393-3553 VERIZON CABLE LOCATION DIVISION: B.G.&E. CO. CONTRACTOR SERVICES B.G.&E. CO. UNDERGROUND DAMAGE CONTROL: 787-4620 531-5533 STATE HIGHWAY ADMINISTRATION: 3. 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 4. ANY DAMAGE TO PUBLIC RIGHTS-OF-WAY, PAVING, OR EXISTING UTILITIES WILL BE CORRECTED AT LOT 5 & LOT 6 THE CONTRACTOR'S EXPENSE. 5. EXISTING UTILITIES LOCATED FROM ROAD CONSTRUCTION PLANS AND AVAILABLE RECORD DRAWINGS. APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN FOR THE CONTRACTORS INFORMATION. CONTRACTOR SHALL LOCATE EXISTING UTILITIES WELL IN ADVANCE OF CONSTRUCTION ACTIVITIES AND TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND TO MAINTAIN 5. 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. 7. IN ACCORDANCE WITH SECTION 128 OF THE HOWARD COUNTY ZONING REGULATIONS, BAY WINDOWS, CHIMNEYS, OR EXTERIOR STAIRWAYS NOT MORE THAN 16 FEET IN WIDTH MAY PROJECT 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. 8. DRIVEWAYS SHALL BE PROVIDED PRIOR TO RESIDENTIAL OCCUPANCY TO INSURE SAFE ACCESS FOR SITE ANALYSIS DATA CHART FIRE AND EMERGENCY VEHICLES PER THE FOLLOWING MINIMUM REQUIREMENTS: A) WIDTH - 12 FEET (16 FEET IF SERVING MORE THAN ONE RESIDENCE) LOCATION: TAX MAP 17, GRID 20, PARCEL 329 B) SURFACE - 6 INCHES OF COMPACTED CRUSHER RUN BASE WITH TAR AND CHIP COATING C) GEOMETRY - MAXIMUM 15% GRADE, MAXIMUM 10% GRADE CHANGE, AND MINIMUM 45 FOOT TURNING 2ND ELECTION DISTRICT EXISTING ZONING: R-20 PER 02/02/04 COMPREHENSIVE ZONING PLAN D) STRUCTURES (CULVERTS/BRIDGES) - MUST SUPPORT 25 GROSS TON LOADING (H25 LOADING) GROSS AREA OF PROJECT: E) DRAINAGE ELEMENTS - CAPABLE OF SAFELY PASSING 100 YEAR FLOOD EVENTS WITH NO MORE AREA LOT 5: THAN 1 FOOT DEPTH OVER DRIVEWAY SURFACE AREA LOT 6: F) STRUCTURE CLEARANCES - MINIMUM 12 FEET AREA OF FLOODPLAIN: S 82'16'58"E 143.24" G) MAINTENANCE - SUFFICIENT TO INSURE ALL WEATHER USE TOTAL AREA OF STEEP SLOPES: NET AREA OF PROJECT: 9. THE SUBJECT PROPERTY IS ZONED R-20 PER THE FEBRUARY 2, 2004 COMPREHENSIVE ZONING PLAN AREA OF OPEN SPACE REQUIRED: AND THE COMP LITE ZONING REGULATIONS, EFFECTIVE 7/28/06. N 590350 S <u>88'</u>00'3<u>0"E</u> 88.27' AREA OF OPEN SPACE PROVIDED: 10. THIS PLAN IS SUBJECT TO THE AMENDED FIFTH EDITION OF THE SUBDIVISION AND LAND DEVELOPMENT AREA OF RECREATIONAL OPEN SPACE REQUIRED: REGULATIONS EFFECTIVE OCTOBER 7, 2007. AREA OF RECREATIONAL OPEN SPACE PROVIDED: 11. THE PROJECT BOUNDRY IS BASED ON A BOUNDRY SURVEY PERFORMED BY ROBERT H. VOGEL ENGINEERING, INC. DATED MARCH 2005. AREA OF PROPOSED RIGHT-OF-WAY: 12. THE TOPOGRAPHY SHOWN HEREON IS BASED ON A TOPOGRAPHICAL SURVEY PERFORMED BY TOTAL APPROXIMATE LIMIT OF DISTURBANCE: ROBERT H. VOGEL ENGINEERING, INC. DATED MARCH 2005. DPZ FILE NUMBERS-F-03-011, WP-05-026, WP-03-127, F-05-191 13. ACCESS TO PUBLIC WATER AND SEWER SERVICES HAVE BEEN PROVIDED UNDER CONTRACT NO. 24-3304 14. THE FOREST CONSERVATION OBLIGATION FOR THIS SUBDIVISION HAS BEEN SATISFIED UNDER FINAL PLAN EX. LOT 4 F-03-011 BY ON-SITE RETENTION IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 16.1200 15. NO STREAMS OR WETLANDS EXIST ON SITE PER ENVIRONMENTAL REPORT PREPARED BY ECO-SCIENCE PROFESSIONAL INC. DATED JULY 29, 2001. 16. NO 100 YEAR FLOODPLAINS EXISTS ON SITE. 17. NO STEEP SLOPES EXIST ON SITE. 18. FOR DRIVEWAY ENTRANCE DETAILS REFER TO THE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, STANDARD DETAIL R-6.06 (OPEN SECTION). 19. THE FOREST CONSERVATION OBLIGATION FOR THIS SUBDIVISION HAS BEEN SATISFIED UNDER FINAL PLAN F-03-011 BY ON-SITE RETENTION IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 16.1200 OF 20. PERIMETER LANDSCAPING SHALL BE IN ACCORDANCE WITH SECTION 16.124 OF THE HOWARD COUNTY CODE AND LANDSCAPE MANUAL. SURETY IN THE AMOUNT OF \$3,000 FOR THE 5 SHADE TREES AND 50 SHRUBS SHALL BE POSTED WITH THE GRADING PERMIT. 21. THIS PROJECT IS EXEMPT FROM Cpv STORMWATER MANAGEMENT SINCE 1 YEAR RUNOFF N-84777'54"W FROM LOT 5 AND LOT 6 IS LESS THAN 2.0 CFS. Rev AND Way ARE PROVIDED BY LEVEL SPREADERS DESIGN COMPUTATIONS PER F-05-191 AND DETAIL PROVIDED UNDER THIS SITE EXISTING FOREST CONSERVATION. 22. A FEE-IN-LIEU FOR OPEN SPACE IN THE AMOUNT OF \$4,500 HAS BEEN PAID WITH PLAT RECORDATION. RETENTION EASEMENT 23. THIS SUBDIVISION IS SUBJECT TO APPROVED WAIVER WP-05-026 TO WAIVE SECTIONS 16.120 (b).(4).(i) PLAT 16349 AND 16.120.(c).(1), APPROVED FEBUARY 28, 2005, TO ALLOW IRREGULAR SHAPED LOTS FOR LOTS 5 AND 6 AND TO ALLOW THE REDUCTION OF THE 20 FT. PUBLIC ROAD FRONTAGE REQUIREMENT FOR SINGLE PIPESTEM LOTS TO 15 FT. FOR LOT 6, SUBJECT TO: THE SUBMISSION OF A FINAL PLAT AND PROVIDING LANDSCAPE SCREENING ALONG THE SOUTH SIDE OF LOT 6: ORIENTING THE HOME ON LOT 5 TOWARD THE WEST AND ORIENTING THE HOME ON LOT 6 TO THE SOUTH; AND, THE DRIVEWAY FOR LOT 6 FOR A SINGLE USER MUST MEET DESIGN MANUAL STANDARDS, MUST BE WITHIN THE PIPESTEM FOR LOT 6 AND SHALL NOT VEHICULAR ACCESS IMPACT OR EXTEND ONTO LOT 5. EASEMENT FOR SUBJECT TO THE SUBMISSION OF A FINAL PLAT APPLICATION FOR THE PROPOSED RESUBDIVISION BASED ON THE REVISED WAIVER PLAN EXHIBITS DATED 1/25/05. NO GRADING, CLEARING OR DISTURBANCE IS ALLOWED WITHIN THE WETLANDS, STREAMS OR THE DEVELOPER SHOULD PROVIDE THE LANDSCAPE SCREENING ALONG THE SOUTH SIDE OF PROPOSED LOT 6 AS PROPOSED ON THE WAIVER PLAN EXHIBIT. TO ENSURE CONSISTENCY BETWEEN HOUSE ORIENTATIONS AND BUILDING SETBACKS, THE HOME ON LOT 5 MUST BE ORIENTED TOWARD THE WEST AND THE HOME ON LOT 6 MUST BE ORIENTED THE DRIVEWAY FOR LOT 6 SHOULD BE A SINGLE USER DRIVEWAY MEETING DESIGN MANUAL STANDARDS. IT SHOULD BE LOCATED ENTIRELY WITHIN THE PIPESTEM FOR LOT 6 AND SHOULD NOT TAX MAP 16 PARCEL 8 IMPACT OR EXTEND ON TO LOT 5. HOWARD COUNTY BOARD OF 24. THIS PLAN IS SUBJECT TO THE AMENDED FIFTH EDITION OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS PER COUNCIL BILL 45-2003 AND THE ZONING REGUALTIONS AS AMENDED BY COUNCIL BILL 75-2003. DEVELOPMENT OR CONSTRUCTION ON THESE LOTS MUST COMPLY WITH SETBACK AND (FOR THE USE OF THE HOWARD BUFFER REULATIONS IN EFFECT AT THE TIME OF SUBMISSION OF THE SITE DEVELOPMENT PLAN, WAIVER PETITION APPLICATIONOR BUILDING/GRADING PERMIT. COUNT DEPARTMENT OF 25. THE ADJACENT FOREST CONSERVATION EASEMENT HAS BEEN ESTABLISHED TO FULFILL THE REQUIREMENTS PROPRAHOM AND PARKS) OF SECTION 16.1200 OF THE HOWARD COUNTY CODE AND THE FOREST CONSERVATION ACT. NO CLEARING, GRADING OR CONSTRUCTION IS PERMITTED IN THE FORSET CONSERVATION EASEMENT; HOWEVER, FOREST LIBER 477 FOLIO 738 MANAGEMENT PRACTICES AS DEFINED IN THE DEED OF FOREST CONSERVATION EASEMENT ARE ALLOWED. LOT 5 ZZNED R-20 26. DPZ FILE NUMBERS-F-03-011, WP-05-026, WP-03-127, F-05-191. 27. OPEN SPACE LOT 3 OWNED AND MAINTAINED BY HENLINE ASSOCIATION, INC., A HOMEOWNERS ASSOCIATION LOT 6 FOR THE BENEFIT OF THE RESIDENTS OF THE HENLINE PROPERTY SUBDIVISION. ARTICLES OF THE INCORPORATION FOR THE HENLINE ASSCIATION, INC., A HOMEOWNERS ASSOCIATION ARE FILED WITH THE 23,007 SF MARYLAND DEPARTMENT OF ASSESSMENTS AND TAXATION ON OCTOBER 21, 2003 AS ACCOUNT NUMBER 28, A SITE DEVELOPMENT PLAN FOR LOTS 5 AND 6 HAS BEEN PROVIDED PER SECTION 16.155 (A) (2) (II) OF THE SUBDIVISION REGULATIONS. 29. WP-03-127 APPROVED JUNE 17, 2003 TO ALLOW RELIEF FROM SECTION 16.120. (B) (4) (I) WHICH REQUIRES RESIDENTIAL LOTS TO BE DESIGNED IN A GENERALLY RECTANGULAR CONFIGURATION AND SECTION 16.121. (E) (I) WHICH REQUIRES OPEN SPACE LOTS OR AREAS TO HAVE A MINIMUM OF 40 FEET OF FRONTAGE ON A PUBLIC ROAD WHICH IS SUITABLE, FOR ACCESS BY PEDESTRIANS AND MAINTENANCE VEHICLES. SUBJECT TO PROVIDING A 12' WIDE PEDESTRIAN AND VEHICULAR ACCESS EASEMENT PROVIDED PLAT OF REED FARM FROM MULLINEAUX LANE TO OPEN SPACE LOT 3. 30, FOR FLAG OR PIPESTEM LOTS, REFUSE COLLECTION, SNOW REMOVAL AND ROAD MAINTENANCE A TRACTOR ARE PROVIDED TO THE JUNCTION OF FLAG OR PIPESTEM AND ROAD RIGHT-OF-WAY LINE AND PLAT No. 19416 NOT TO THE PIPESTEM LOT DRIVEWAY. CURVE DATA 31. THE STAKING OF FOUNDATIONS PRIOR TO CONSTRUCTION TO ENSURE COMPLIANCE WITH REGULATORY CURVE ARC RADIUS TANGENT DELTA BUILDING RESTRICTION LINES IS RECOMMENDED. C1 96.07' 50.00' 71.52' 110'05'17" S42'46'37"E 81.95' C2 61.92' 25.00' 72.45' 141'55'34" S56'47'49"E 47.26' DEVELOPER'S BUILDER'S CERTIFICATE LOT 3 I/WE CERTIFY THAT THE LANDSCAPING SHOWN ON THIS PLAN WILL BE DONE ACCORDING TO THE PLAN, SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE HOWARD COUNTY LANDSCAPE MANUAL I/WE FURTHER CERTIFY THAT UPON COMPLETION, A LETTER OF NOTICE OF LANDSCAPE INSTALLATION, ACCOMPANIED BY AN EXECUTED ONE(1) YEAR GUARANTEE OF PLANT MATERIALS, WILL BE SUBMITTED TO THE DEPARTMENT OF PLANNING AND ZONING. SITE PLAN N 589950 N 589950 REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS **DEVELOPER'S CERTIFICATE** ENGINEERS CERTIFICATE APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING "I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE "I CERTIFY THAT THIS PLAN FOR SEDIMENT AND EROSION CHIEF, DEVELOPMENT ENGINEERING DIVISION TO DATE DONE ACCORDING TO THIS PLAN FOR SEDIMENT AND EROSION CONTROL. CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT SDA-NATURAL RESOURCES CONSERVATION SERVICE AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE OWNER & DEVELOPER OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO LIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND PREPARED OR APPROVED BY ME, AND THAT I AUTHORIZE PERIODIC ONSITE INSPECTION BY THE HOWARD SOIL SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT AM A DULY LICENSED PROFESSIONAL ENGINEER CONSERVATION DISTRICT. MICHAEL L. PFAU UNDER THE LAWS OF THE STATE OF MARYLAND. -7, open (Caso) 1/24/08 Wishard Pfori 3675 PARK AVENUE #301 LICENSE NO. 16193 EXPIRATION DATE: 1/24/08 ELLICOTT CITY, MARYLAND SIGNATURE OF ENGINEER 09-27-2008." HOWARD SCD 21043-4860 SIGNATURE OF DEVELOPER ROBERT H. VOGEL

COORDINATE LIST NORTH 1350584.38895 350618.2579 8 590136.54045 1350678.66953 9 590143.58655 1350705.33428 13 590367.35532 1350553.56043 14 590348.12047 1350695.50309 15 590345.05273 | 1350783.71977 33 590144.81543 1350820.17069 48 590068.68414 1350488.61855 150 589983.71713 1350921.24379

43,008 SF (0.99 AC.)

20.001 SF (0.46 AC.)

23,007 SF (0.53 AC.)

43,008 SF (0.99 AC.)

32,402 SF (0,74 AC.)

0.00 AC.

N/A

N/A

### **VICINITY MAP**

COORDINATE BASE ON NAD '83 (PLAT MERIDIAN) MARYLAND SYSTEM CORRDINATE AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS No. 24AA AND No. 24B5

STATION No. 24AA N 179033.9652 (METERS) E 412274.4193 (METERS)

STATION No. 24B5 N 178904.6102 (METERS) E 413483.6121 (METERS)

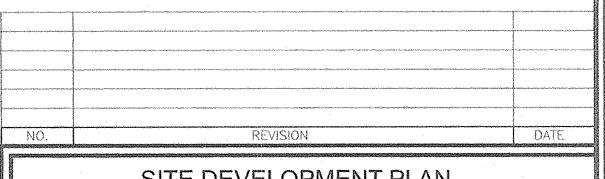
	MINIMUM	LOT SIZE CHART	gggglebby y vilgilitary pelysing y manner for Eddalan viry planty from a special property of the following type in the best special property of the following type in the best special property of the following type in the best special property of the following type in the best special property of the following type in the best special property of the best special property of the following type in the best special property of the best special proper
LOT NO.	GROSS AREA SQ. FT.	PIPESTEM AREA SQ. FT.	MINIMUM LOT SIZE SQ. FT.
6	23007	2955	20052

	ADDRESS CHART
LOT #	STREET ADDRESS
LOT 5	3041 MULLINEAUX LANE
LOT 6	3047 MULLINEAUX LANE

PROJECT NAME SECTION/AREA HENLINE PROPERTY N/A		LOT NUMBER LOT 4, 5, 6 PARCEL 329				
PLAT REF.	BLOCK NO.	ZONE	TAX MAP	PARCEL	ELECT. DIST.	CENSUS
19437	19	R-20	17	329	2ND	6022.0
WATER CO	DE; H08	an kalumuya iyo oo o		SEWER CODE	5991000	)

SHEET INDEX  DESCRIPTION	SHEET NO.
SITE LAYOUT, GRADING, & LANDSCAPE PLAN	1 OF 3
SITE LAYOUT, GRADING, SEDIMENT CONTROL, AND LANDSCAPE PLAN	2 OF 3
SEDIMENT, EROSION CONTROL, AND LANDSCAPE NOTES AND DETAILS	3 OF 3

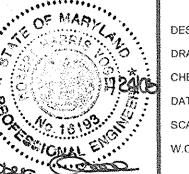
	SOILS LEGEND	
SYMBOL	NAME / DESCRIPTION	GROUP
GIB2	GLENELG LOAM, 3 TO 8 PERCENT SLOPES, MODERATELY ERODED	С
MIE	MANOR LOAM, 25 TO 45 PERCENT SLOPES	8
мів2	MANOR LOAM, 3 TO 8 PERCENT SLOPES, MODERATELY ERODED	8
міСЗ	MANOR LOAM, 8 TO 15 PERCENT SLOPES, SEVERELY ERODED	8



#### SITE DEVELOPMENT PLAN HENLINE PROPERTY LOTS 5 & 6

PLAT No. 19437 SINGLE FAMILY DETACHED DPZ FILE No.'s F-03-11, WP-05-026, WP-03-127, F-05-191 PARCEL 329 TAX MAP 17 BLOCK 19 2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND

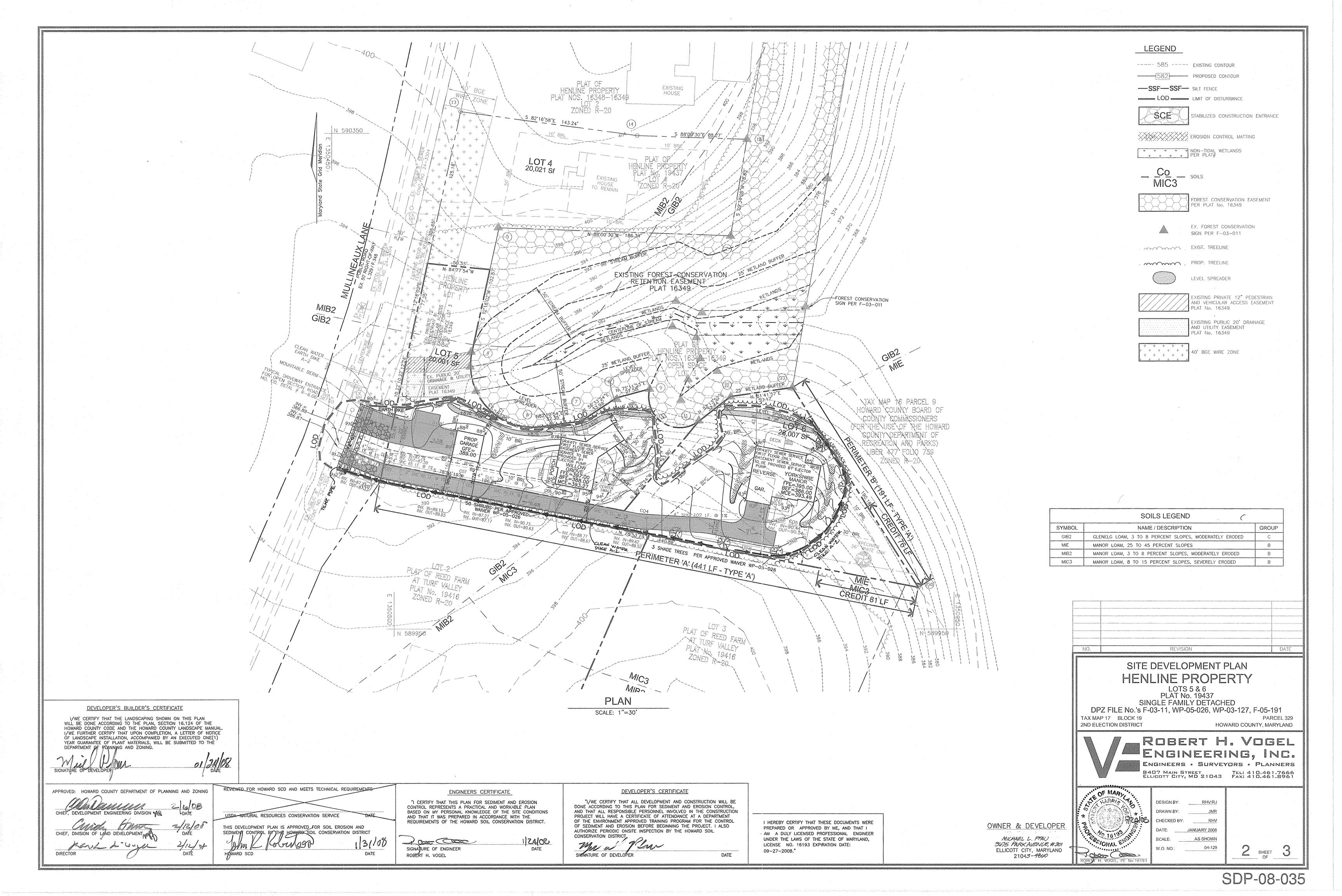




7 MAIN STREE			0.46 l 0.46 l	
DESIGN BY:	RHV/RJ			

CHECKED BY: W.O. NO.:

SHEET



# 21.0 STANDARDS AND SPECIFICATIONS FOR TOPSOIL

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

TO PROVIDE A SUITABLE SOIL MEDIUM FOR VEGETABLE 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:

A. THE TEXTURE OF THE EXPOSED SUBSOIL/PARENT 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 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 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 SOIL TYPE CAN BE FOUND IN THE REPRESENTATIVE SOIL PROFILE SECTION IN THE SOIL SURVEY PUBLISHED BY USDA-SCS IN COOPERATION WITH MARYLAND AGRICULTURAL EXPERIMENTAL STATION.

II. 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 A 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 THAT 1 AND 1/2" IN

II. TOPSOIL MUST BE FREE OF PLANTS OR PLANT PARTS SUCH AS BERMUDA GRASS, QUACKGRASS, JOHNSONGRASS, NUTSEDGE, POISON MY, THISTLE, OR OTHERS AS SPECIFIED.

III. WHERE THE SUBSOIL IS ETHER 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. LIME 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 SOIL AMENDMENTS AS SPECIFIED IN 20.0 VEGETATIVE STABILIZATION -

FOR SITES HAVING DISTURBED AREAS OVER 5 ACRES: I. ON SOIL MEETING TOPSOIL SPECIFICATIONS, OBTAIN TEST RESULTS DICTATING FERTILIZER AND LIME AMENDMENTS REQUIRE TO BRING THE SOIL INTO COMPLIANCE WITH THE FOLLOWING: A. PH FOR TOPSOIL SHALL BE BETWEEN 6.0 AND 7.5. IF

SECTION I - VEGETATIVE STABILIZATION METHODS AND MATERIALS.

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 SOIL WHICH HAS BEEN TREATED WITH SOIL STERILANTS OR CHEMICALS USED FOR WEED CONTROL UNTIL SUFFICIENT TIME HAS FLAPSED (14 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

IL PLACE TOPSOIL (IF REQUIRED) AND APPLY SOIL AMMENDMENTS 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.

II. GRADES ON THE AREAS TO BE TOPSOILED, WHICH HAVE BEEN PREVIOUSLY ESTABLISHED, SHALL BE MAINTAINED, ALBEIT 4" - 8" HIGHER IN ELEVATION.

III. 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 TOPSOILING OR OTHER OPERATIONS SHALL BE CORRECTED IN ORDER TO PREVENT THE FORMATION OF DEPRESSIONS OR WATER POCKETS

IV. TOPSOIL SHALL NOT BE PLACE 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.

#### DEVELOPER'S BUILDER'S CERTIFICATE

LAND DEVELOPMENT

I/WE CERTIFY THAT THE LANDSCAPING SHOWN ON THIS PLAN WILL BE DONE ACCORDING TO THE PLAN, SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE HOWARD COUNTY LANDSCAPE MANUAL I/WE FURTHER CERTIFY THAT UPON COMPLETION. A LETTER OF NOTICE OF LANDSCAPE INSTALLATION, ACCOMPANIED BY AN EXECUTED ONE(1) YEAR GUARANTEE OF PLANT MATERIALS, WILL BE SUBMITTED TO THE DEPARTMENT OF PUNNING AND ZONING.

SCALE: 1"=30 REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

HOWARD SCD

#### SEQUENCE OF CONSTRUCTION

1. OBTAIN GRADING PERMIT. 2. INSTALL SEDIMENT CONTROL AS SHOWN ON PLAN IN ACCORDANCE WITH DETAILS AT THE DIRECTION OF THE SEDIMENT CONTROL INSPECTOR A DOUBLE ROW OF "SUPER" SILT FENCE IS TO BE INSTALLED AT THE DOWNHILL SIDE DO THE PROJECT. (DAY 1)

3. CLEAR AND ROUGH GRADE SITE.(1 WEEK) 4. CONSTRUCT HOUSE.(4 MONTHS) 5. FINE GRADE AND STABILIZE THE SITE WITH TOPSOIL AND SEEDING (SEE NOTES THIS PLAN) AT THE DIRECTION OF SEDIMENT CONTROL INSPECTOR A DOUBLE ROW OF "SUPER" SILT FENCE IS TO BE INSTALLED AT THE DOWNHILL SIDE DO THE PROJECT. (DAY 3)

6. AFTER THE SITE IS PERMANENTLY STABILIZED AND AND PERMISSION IS GRANTED FROM HOWARD COUNTY SEDIMENT CONTROL INSPECTOR, REMOVE SEDIMENT CONTROLS AND STABILIZE ANY REMAINING DISTURBED AREAS.

#### 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 SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY

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

1) PREFERRED-APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS/ 100 SO.FT.) AND 600 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS./ 1000 SQ.FT.) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE NCHES OF SOIL, AT THE TIME OF SEEDING, APPLY 400 LBS. PER ACRE 30-0-0 UREAFORM FERTILIZER (9 LBS/1000 SQ.FT.)

2) ACCEPTABLE-APPLY 2 TONS PER ACRE DOLOMATIC LIMESTONE (92 LBS/ 1000 SQ.FT.) AND APPLY 1000 LBS. PER ACRE 10-10-10- FERTILIZER (23 LBS./1000 SQ.FT.) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE INCHES OF SOIL.

SEEDING: FOR THE PERIODS MARCH 1 THRU APRIL 30, AND AUGUST 1 THRU OCTOBER 15. SEED WITH 60 LBS. PER ACRE (1.4 LBS/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 (.05 LBS./1000 SQ.FT.) OF WEEPING LOVEGRASS. DURING THE PERIOD OF OCTOBER 16 THRU FEBRUARY 28, PROTECT SITE BY: OPTION (1) 2 TONS PER ACRE WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING. OPTION (2) USE SOD. OPTION (3) SEED WITH 60 LBS/ACRE KENTUCKY 31 TALL FESCUE AND MULCH WITH 2 TONS/ACRE WELL ANCHORED

MULCHING: APPLY 1 1/2 TO 2 TONS PER ACRE (70 TO 90 LBS/1000 SQ. FT.) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GALLONS PER ACRE (5 GAL/1000 SQ.FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES 8 FEET OR HIGHER, USE 348 GALLONS PER ACRE (8 GAL/1000 SQ.FT.) FOR ANCHORING. MAINTENANCE: INSPECT ALL SEEDED AREAS AND MAKE NEEDED REPAIRS,

### TEMPORARY SEEDING NOTES

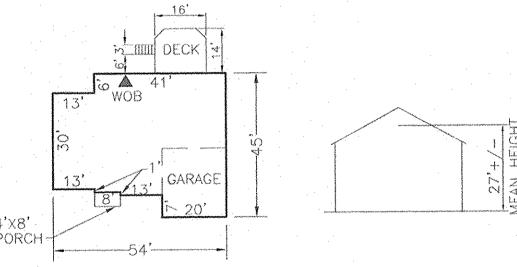
SEEDBED PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED. SOIL AMENDMENTS: APPLY 600 LBS. PER ACRE 10-10-10 FERTILIZER

(14 LBS./1000 SQ.FT). SEEDING: FOR PERIODS MARCH 1 THRU APRIL 30 AND FROM AUGUST 15 THRU NOVEMBER 15, SEED WITH 2 1/2 BUSHEL PER ACRE OF ANNUAL RYE (3.2

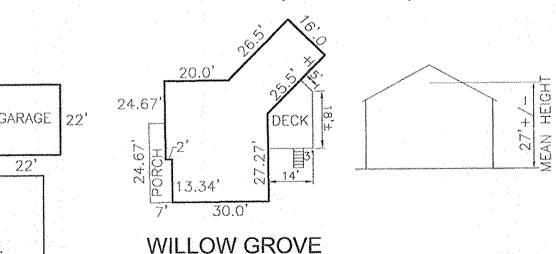
LBS./1000 SQ.FT.) FOR THE PERIOD MAY 1 THRU AUGUST 14, SEED WITH 3 LBS. PER ACRE OF WEEPING LOVEGRASS (.07 LBS./1000 SQ.FT.). FOR THE PERIOD NOVEMBER 1 THRU FEBRUARY 28, PROTECT SITE BY APPLYING 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING, OR USE SOD. MULCHING: APPLY 1 1/2 TO 2 TONS PER ACRE (70 TO 90 LBS./1000

SQ.FT.) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GALLONS PER ACRE (5 GAL/1000 SQ.FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES 8 FEET OR HIGHER, USE 348 GALLONS PER ACRE (8 GAL/1000 SQ.FT.) FOR ANCHORING.

REFER TO THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT



#### YORKSHIRE MANOR (REVERSED)



HOUSE TYPES

THE HOWARD SOIL CONSERVATION DISTRICT

USDA-WATURAL RESOURCES CONSERVATION SERVICE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND

# ENGINEERS CERTIFICATE

"I CERTIFY THAT THIS PLAN FOR SEDIMENT AND EROSION 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 OF ENGINEER DATE ROBERT H. VOGEL

### DEVELOPER'S CERTIFICATE

"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN FOR SEDIMENT AND EROSION CONTROL, AND THAT ALL 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 ONSITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT.

melved flow SIGNATURE OF DEVELOPER

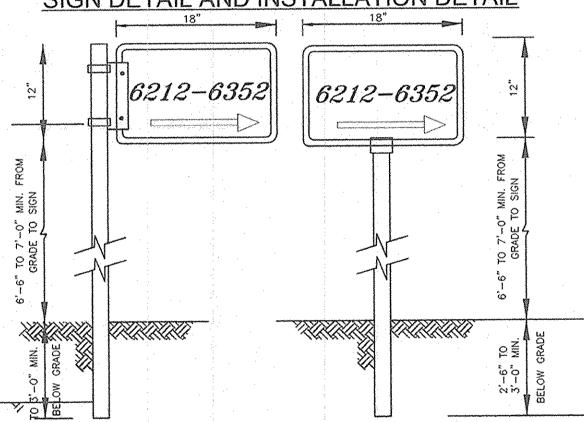
## SEDIMENT CONTROL NOTES

- 1. A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTION, LICENSE AND PERMITS SEDIMENT CONTROL DIVISION PRIOR TO THE START OF ANY CONSTRUCTION (313-1855).
- 2. ALL VEGETATION 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.
- 3. FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: (A) 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER SLOPES, AND ALL SLOPES GREATER THAN 3:1. (B) 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE
- 4. ALL SEDIMENT TRAPS/BASINS SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND THEIR PERIMETER IN ACCORDANCE WITH VOL. 1, CHAPTER 7, 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 BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT 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
- 35,407 SF 13,400 SF AREA DISTURBED AREA TO BE ROOFED OR PAVED AREA TO BE VEGETATIVELY STABILIZED TOTAL CUT OFFSITE WASTE/BORROW AREA LOCATION

TOTAL

- ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
- ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED, IF DEEMED NECESSARY BY 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.
- \* TO BE DETERMINED BY CONTRACTOR, WITH PRE-APPROVAL OF THE SEDIMENT CONTROL INSPECTOR WITH AN APPROVED AND ACTIVE GRADING PERMIT

ALL SIGN POSTS USED FOR TRAFFIC CONTROL SIGNS INSTALLED FOR THIS PROJECT SHALL BE MOUNTED ON A 2" GALVANIZEDE STEEL, PERFORATED, SQUARE TUBE POST (14 GAUGE) INSERTED INTO A 2-1/2" GALVANIZED STEEL, PERFORATED, SQUARE TUBE POST (14 GAUGE) INSERTED INTO A 2-1/2" GALVANIZED STEEL, PERFORATED, SQUARE TUBE SLEEVE (12 GAUGE)— 3' LONG. A GALVANIZED STEEL POLE CAP SHALL BE MOUNTED ON TOP OF EACH POST. SIGN DETAIL AND INSTALLATION DETAIL



ALL SIGN POST USED FOR TRAFFIC CONTROL SIGNS INSTALLED ON PRIVATE ROADS SHALL BE MOUNTED ON A 2" GALVANIZED STEEL, PERFORATED, SQUARE TUBE POST (14 GAUGE) INSERTED INTO A 2-1/2" GALVANIZED STEEL, PERFORATED, SQUARE TUBE SLEEVE (12 GAUGE) - 3' LONG. A GALVANIZED STEEL POLE CAP SHALL BE MOUNTED ON TOP OF EACH POST.

FOR THE SIGN PLACEMENT IN THE PUBLIC ROW, SIGN SHALL BE FABRICATED IN THE COUNTY SIGN SHOP AT THE EXPENSE OF THE DEVELOPER.

### SCHEDULE A PERIMETER LANDSCAPE EDGE

CATEGORY	ADJACENT TO PERIMETER PROPERTIES	ADJACENT TO PERIMETER PROPERTIES
LANDSCAPE TYPE	TYPE 'A'	TYPE 'A'
LINEAR FEET OF ROADWAY FRONTAGE/PERIMETER	441 🖱	191' 🕲
CREDIT FOR EXISTING VEGETATION (YES, NO, LINEAR FEET) (DESCRIBE BELOW IF NEEDED)	YES 81	YES 76'
CREDIT FOR WALL, FENCE OR BERM (YES, NO, LINEAR FEET) (DESCRIBE BELOW IF NEEDED)	NO	NO
NUMBER OF PLANTS REQUIRED SHADE TREES EVERGREEN TREES SHRUBS	6 0 0	2 0 0
NUMBER OF PLANTS PROVIDED  SHADE TREES EVERGREEN TREES OTHER TREES (2:1 SUBSTITUTION) SHRUBS (10:1 SUBSTITUTION) (DESCRIBE PLANT SUBSTITUTION CREDITS BELOW IF NEEDED)	3 0 0 50**	2 0 0 0

CROSS-SECTION 4" OVERLAP OF MATTING STRIPSWHERE TWO OR MORE STRIP WIDTHS ARE REQUIRED. ATTACH STAPLES ON STAPLES ON 18" CENTERS STAPLE OUTSIDE EDGE OF MATTING ON 2" CENTERS TYPICAL STAPLES NO 11 GAUGE WIRE CONSTRUCTION SPECIFICATIONS Key-in the matting by placing the top ends of the matting in a narrow trench, 6" in depth. Backfill the trench and tamp firmly to conform to the channel

DETAIL 30 - EROSION CONTROL MATTING

cross-section. Secure with grow of staples, about 4" down from the trench. 3. Geotextile fabric (filter cloth) shall be placed over the existing ground prior to ipacina between staples is 6" placing stone. \*\* The plan approval authority may not require single family 2. Staple the 4" overlap in the channel center using an 18" spacing between

5. Before stapling the outer edges of the matting, make sure the matting is smooth and in firm contact with the soil. . Staples shall be placed 2" apart with 4 rows for each strip, 2 outer row,

Pipe installed through the Stabilized Construction Entrance shall be protected and 2 alternating rows down the center. Where one roll of matting ends and another begins, the end of the top strip the pipe. Pipe has to be sized according to the drainage. When the SCE is shall overlap the upper end of the lower strip by 4", shiplap fashion. Reinforce the overlap with a double row of staples spaced 6" apart in a staggered pattern on either side.

> 5. The discharge end of the matting liner should be similarly secured with 2 double rows of staples. Note: If flow will enter from the edge of the matting then the area effected by

the flow must be keyed-in. MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION PAGE F=17=3

DETAIL 24 - STABILIZED CONSTRUCTION ENTRANCE

MINIMUM 6" OF 2"-

\* 50' MINIMUM LENGTH

10' MIN

CONSTRUCTION SPECIFICATIONS

. Width - 10' minimum. Should be flared at the existing road to provide a

4. Stone - Crushed aggregate (2" to 3") or reclaimed or recycled concrete

equivalent shall be placed at least 6" over the length and width of

5. Surface Water - All surface water flowing to or diverted toward construction

entrances shall be piped through the entrance, maintaining positive drainage.

with a mountable berm with 5:1 slopes and a minimum of 6" of stone over

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" minimym will be required.

6. Location - A Stabilized Construction Entrance shall be located at every

point where construction traffic enters or leaves a construction site.

Vehicles leaving the site must travel over the entire length of the

**DETAIL 1 - EARTH DIKE** 

CROSS SECTION

SUFFICIENT TO DRAIN

PLAN VIEW

FLOW CHANNEL STABILIZATION

GRADE 0.5% MIN. 10% MAX.

CONSTRUCTION SPECIFICATIONS

GRADE TO AN OUTLET. SPOT ELEVATIONS MAY BE NECESSARY FOR GRADES LESS THAN 1%.

2. RUNOFF DIVERTED FROM A DISTURBED AREA SHALL BE CONVEYED TO A SEDIMENT

3. RUNOFF DIVERTED FROM AN UNDISTURBED AREA SHALL OUTLET DIRECTLY INTO AN

4. ALL TREES, BRUSH, STUMPS, OBSTRUCTIONS, AND OTHER OBJECTIONAL MATERIAL

SHALL BE REMOVED AND DISPOSED OF SO AS NOT TO INTERFERE WITH THE PROPER

5. THE DIKE SHALL BE EXCAVATED OR SHAPED TO LINE, GRADE AND CROSS SECTION AS

REQUIRED TO MEET THE CRITERIA SPECIFIED HEREIN AND BE FREE OF BANK PROJECTIONS

7. ALL EARTH REMOVED AND NOT NEEDED FOR CONSTRUCTION SHALL BE PLACED SO THAT

PAGE A - 1 - 6

8. INSPECTION AND MAINTENANCE MUST BE PROVIDED PERIODICALLY AND AFTER

2. SEED AND COVER WITH EROSION CONTROL MATTING OR LINE WITH SOD.

3. 4" - 7" STONE OR RECYCLED CONCRETE EQUIVALENT PRESSED INTO

1. ALL TEMPORARY EARTH DIKES SHALL HAVE UNINTERRUPTED POSITIVE

UNDISTURBED, STABILIZED AREA AT A NON-EROSIVE VELOCITY.

OR OTHER IRREGULARITIES WHICH WILL IMPEDE NORMAL FLOW.

6. FILL SHALL BE COMPACTED BY EARTH MOVING EQUIPMENT.

IT WILL NOT INTERFERE WITH THE FUNCTIONING OF THE DIKE.

0% CHANNEL GRADE

成成化的分数系统的现在形成

2:1 OR FLATTER-

8" #8 STONE-

DATE

(SPREADER GRADE)

2:1 SLOPE OR FLATTER

FYCAVATE TO PROVIDE

REQUIRED FLOW WIDTH

a-DIKE HEIGHT 18" 30"

b-DIKE WIDTH 24" 36"

d-FLOW DEPTH 12" 24"

STANDARD SYMBOL

A-2 B-3

WATER MANAGEMENT ADMINISTRATION

FLOW ENTERS AS SHEET FLOW

PLAN VIEW

LEVEL SPREADER

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE

PREPARED OR APPROVED BY ME, AND THAT I

UNDER THE LAWS OF THE STATE OF MARYLAND,

LICENSE NO. 16193 EXPIRATION DATE:

09-27-2008."

AM A DULY LICENSED PROFESSIONAL ENGINEER

-ORIGINAL GROUND

TUTTINGUALINATANA TANÀNA TANÀNA

OR CONCENTRATED FLOW

c-FLOW WIDTH 4' 6'

DIKE A DIKE B

AGGREGATE OVER LENGTH

AND WIDTH OF STRUCTURE

50' MINIMUM

PROFILE

PLAN VIEW

1. Length - Minimum of 50' (\* 30' for a single residence lot).

\*\* GEOTEXTILE CLASS

'C' OR BETTER -

TANDARD SYME

SCE >

turning radius

the entrance.

2:1 SLOPE OR FLATTER

CUT OR FILL SLOPE

THE SOIL 7" MINIMUM

TRAPPING DEVICE.

FUNCTIONING OF THE DIKE.

U.S. DEPARTMENT OF AGRICULTURE

LEVEL SPREADER

77'

35'

GRADE LINE

1. SEED AND COVER WITH STRAW MULCH.

residences to use geotextile.

BERM (6" MIN)

PIPE AS NECESSARY

EARTH FILL

PAVEMENT

FXISTING

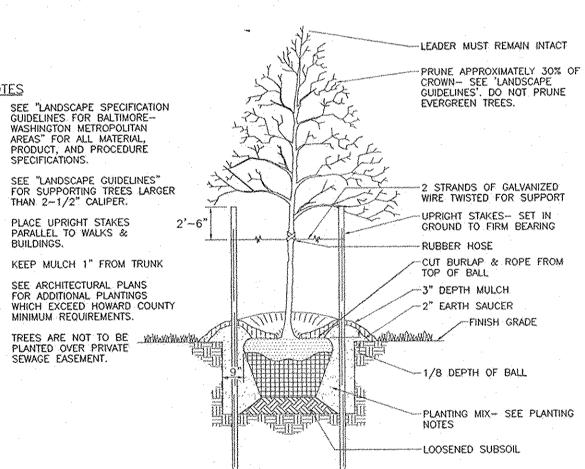
PAVEMENT

## LANDSCAPE NOTES

1. AT THE TIME OF PLANT INSTALLATION, ALL SHRUBS AND OTHER PLANTINGS HEREWITH LISTED AND APPROVED FOR THIS SITE SHALL BE OF THE PROPER HEIGHT REQUIREMENT IN ACCORDANCE WITH THE HOWARD COUNTY LANDSCAPE MANUAL. IN ADDITION, NO SUBSTITUTIONS OR RELOCATION OF REQUIRED PLANTINGS MAY BE MADE WITHOUT PRIOR REVIEW AND APPROVAL FROM THE DEPARTMENT OF PLANNING AND ZONING. ANY DEVIATION FROM THE APPROVED LANDSCAPE PLAN MAY RESULT IN DENIAL OR DELAY IN THE RELEASE OF LANDSCAPE SURETY UNTIL SUCH TIME AS ALL REQUIRED MATERIALS ARE PLANTED AND/OR REVISIONS ARE MADE TO THE APPLICABLE PLANS.

2. THE OWNER, TENANTS AND/OR THEIR AGENTS SHALL BE RESPONSIBLE FOR MAINTENANCE OF THE REQUIRED LANDSCAPING INCLUDING BOTH PLANT MATERIALS AND BERMS, FENCES AND WALLS. ALL PLANT MATERIALS SHALL BE MAINTAINED IN GOOD GROWING CONDITION AND WHEN NECESSARY, REPLACED WITH NEW MATERIALS TO ENSURE CONTINUED COMPLIANCE WITH APPLICABLE REGULATIONS. ALL OTHER REQUIRED LANDSCAPING SHALL BE PERMANENTLY MAINTAINED IN GOOD CONDITION, AND WHEN NECESSARY, REPAIRED OR REPLACED.

3. NO CLEARING OF EXISTING VEGETATION IS PERMITTED WITHIN THE LANDSCAPE EDGE FOR WHICH CREDIT IS BEING TAKEN; HOWEVER, LANDSCAPE MAINTENANCE IS AUTHORIZED.



TREE PLANTING AND STAKING DECIDUOUS TREES UP TO 2-1/2" CALIPER

- BACKFILL WITH TOPSOIL AND PEAT MOSS,

- 6" FOR PLANTS UP TO 4"

OVER 4' HEIGHT MIN.

HEIGHT MIN. 8" FOR PLANTS

OWNER & DEVELOPER

MICHAEL L. PFAU

3675 PARK AVENUE, #301

ELLICOTT CITY, MARYLAND

21043-4860

3:1 RATIO. BACKFILL IN 6" LIFTS

SHRUB PLANTING DETAIL

O TWICE

#### SURFACE -- 36" MINIMUM 2 1/2" DIAMETER GALVANIZED OR CHAIN LINK FENCE ALUMINUM POSTS WITH 1 LAYER OF FILTER CLOTH CHAIN LINK FENCING -34" MINIMUM FLOW FILTER CLOT -16" MIN 1st LAYER FUTER CLOTH\* EMBED FILTER CLOTH 8" MINIMUM INTO GROUND -STANDARD SYMBO \*IF MULTIPLE LAYERS ARE REQUIRED TO ATTAIN 42" ---- SSF CONSTRUCTION SPECIFICATIONS Fencing shall be 42" in height and constructed in accordance with the latest Maryland State Highway Details for Chain Link Fencing. The specification for a 6' fence shall be used, substituting 42" fabric and 6' length posts. Chain link fence shall be fastened securely to the fence posts with wire ties. The lower tension wire, brace and truss rods, drive anchors and post caps are not required except on the ends of the fence. 3. Filter clath shall be fastened securely to the chain link fence with ties spaced every 24" at the top and midsection. 4. Filter cloth shall be embedded a minimum of 8" into the ground. 5. When two sections of filter cloth adjoin each other, they shall be overlapped . Maintenance shall be performed as needed and silt buildups removed when 'bulges' develop in the silt fence, or when silt reaches 50% of fence height. . Filter cloth shall be fastened securely to each fence post with wire ties or staples at top and midsection and shall meet the following requirements for

DETAIL 33 - SUPER SILT FENCE

-8" MINIMUM

-34" MINIMUM

Test: MSMT 509

Test: MSMT 509

Test: MSMT 322

Test: MSMT 322

MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

SHALL NOT EXCEED 10'

Tensile Strength

Tensile Modulus

Filtering Efficiency

US DEPARTMENT OF ACRICULTUR

Flow Rate

CENTER TO CENTER

30.0 DUST CONTROL Definition

Controlling dust blowing and movement on construction sites and roads

50 lbs/in (min)

20 lbs/in (min)

To prevent blowing and movement of dust from exposed soil surfaces, reduce on and off-site damage, health hazards, and improve traffic safety. Conditions Where Practice Applies

This practice is applicable to areas subject to dust blowing and movement where on and off-site damage is

Temporary Methods 1. Mulches - See standards for vegetative stabilization with mulches only. Mulch should be crimped or tacked to prevent blowing.

2. Vegetative Cover - See standards for temporary vegetative cover.

3. Tillage - To roughen surface and bring clods to the surface. This is an emergency measure which should be used before soil blowing starts. Begin plowing on windward side of site. Chiscl-type plows spaced about 12" apart, spring-toothed harrows, and similar plows are examples of equipment which may produce the desired effect.

4. Irrigation - This is generally done as an emergency treatment. Site is sprinkled with water until the surface is moist. Repeat as needed. At no time should the site be irrigated to the point that runoff begins to flow

material can be used to control air currents and soil blowing. Barriers placed at right angles to prevailing currents at intervals of about 10 times their height are effective in controlling soil blowing.

Pairriers - Solid hoard fences, silt fences, snow fences, burlan fences, straw bales, and similar

6. Calcium Chloride - Apply at rates that will keep surface moist. May need retreatment

Permanent Vegetation - See standards for permanent vegetative cover, and permanent stabilization

with sod. Existing trees or large shrubs may afford valuable protection if left in place. 2. Topsoiling - Covering with less erosive soil materials. See standards for topsoiling. 3. Stone - Cover surface with crushed stone or coarse gravel

1. Agriculture Handbook 346. Wind Erosion Forces in the United States and Their Use in Predicting

2. Agriculture Information Bulletin 354. How to Control Wind Erosion, USDA-ARS.

DIANTHET

	FLANT LIS	1	
QTY	BOTANICAL NAME/ COMMON NAME	SIZE	ROOT
5	ACER RUBRUM 'OCTOBER GLORY'/ OCTOBER GLORY RED MAPLE	2-1/2"-3" CAL	B & B
50	EUONYMUS ALATUS 'COMPACTA' DWARF WINGED EUONYMUS	2' -2-1/2' HT	B & B

# SITE DEVELOPMENT PLAN HENLINE PROPERTY

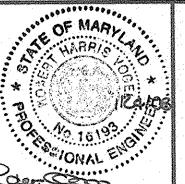
PLAT No. 19437

SINGLE FAMILY DETACHED TAX MAP 17 BLOCK 19 2ND ELECTION DISTRICT

DPZ FILE No.'s F-03-11, WP-05-026, WP-03-127, F-05-191 PARCEL 329 HOWARD COUNTY, MARYLAND



ROBERT H. VOGEL ENGINEERING, INC. ENGINEERS . SURVEYORS . PLANNERS 8407 Main Street Tel: 410.461.7666 ELLICOTT CITY, MD 21043 FAX: 410.461.8961



DESIGN BY: DRAWN BY CHECKED BY: W.O. NO.:

JANUARY 2008 AS SHOWN 04-129

SHEET