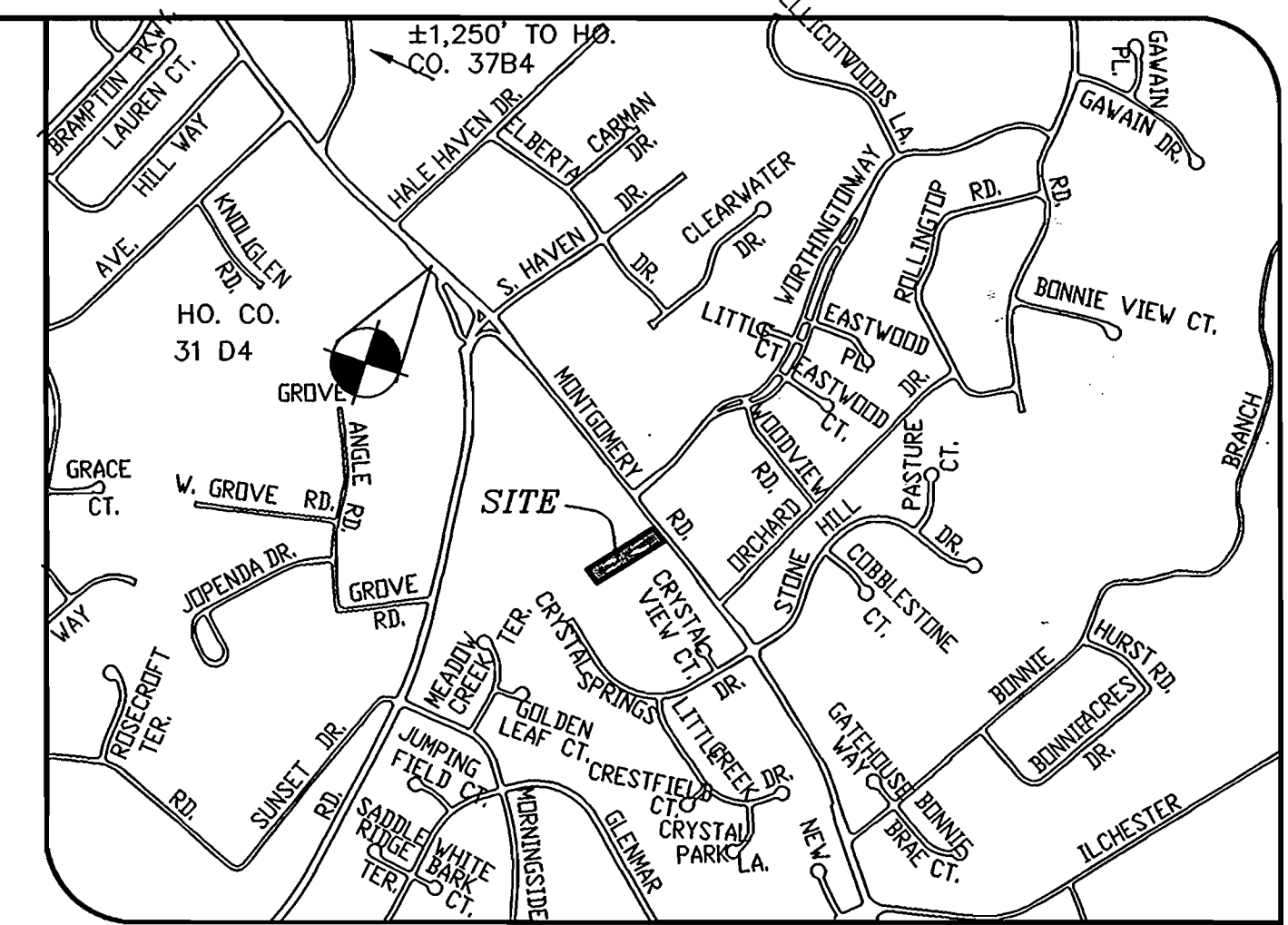


project	date	approval
04-010	MAY 2004	RJH
illustration	engineering	
scale	scale	
1"=80'	1"=80'	

description	date
revisions	

**SANTILLO PROPERTY**  
**LOTS 1 AND 2**  
**SINGLE FAMILY DETACHED**  
**TAX MAP 31 - PARCEL 420**  
**FIRST ELECTION DISTRICT** HOWARD COUNTY, MARYLAND  
**SITE DEVELOPMENT PLAN**

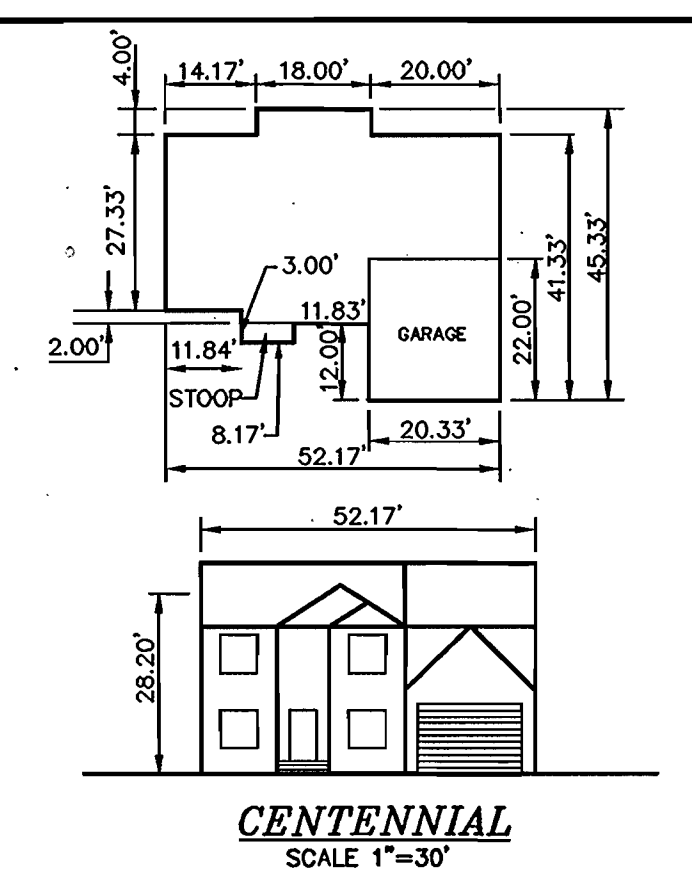
**MILDENBERG, BOENDER & ASSOC., INC.**  
 Engineers Planners Surveyors  
 5072 Dorsey Hall Drive, Suite 202, Ellicott City, Maryland 21042  
 (410) 997-0286 Fax: (410) 997-0288 Fax



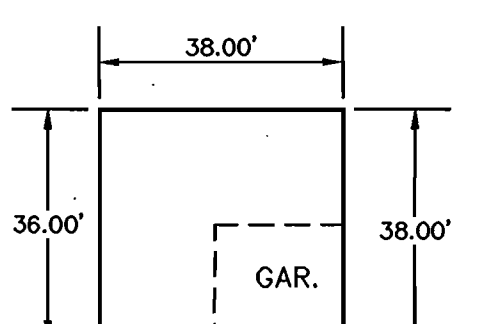
**VICINITY MAP**  
SCALE 1"=1000'

**GENERAL NOTES**

- THE SUBJECT PROPERTY IS ZONED R-20 PER THE 02/02/2004 COMPREHENSIVE ZONING PLAN.
- SITE ANALYSIS DATA:  
 TAX MAP : 31, PARCEL : 420 GRID: 14  
 ELECTION DISTRICT : FIRST AND SECOND.  
 ZONING : R-20  
 TOTAL AREA : 1.06 AC.±  
 PROPOSED USE : SINGLE FAMILY DETACHED.  
 DPZ FILES : F-04-060
- TOPOGRAPHY SHOWN HEREON IS BASED ON A FIELD RUN SURVEY BY MILDENBERG, BOENDER & ASSOC., INC. ON FEBRUARY 2003.
- COORDINATES BASED ON NAD '83 (HORIZONTAL) AND NVD '29 (VERTICAL) MARYLAND COORDINATE SYSTEM AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS NO. 31A3, 31D4.  
 STA. NO. 31A3 N 573,217.877 E 1,368,237.622 ELEV. 487.641 (CONCRETE MONUMENT)  
 STA. NO. 31D4 N 571,700.659 E 1,369,606.281 ELEV. 495.179 (CONCRETE MONUMENT)
- THIS SUBDIVISION IS IN THE METROPOLITAN DISTRICT. PUBLIC WATER AND SEWER WILL BE UTILIZED. LOTS 1 AND 2 WILL BE SERVED UNDER CONTRACT # 419-S & 64-W.
- CONTRACTOR TO VERIFY THE LOCATION OF ALL EXISTING UTILITIES ON SITE PRIOR TO COMMENCING CONSTRUCTION.
- THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/CONSTRUCTION INSPECTIONS DIVISION AT (410) 313-1880 AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE START OF WORK.
- THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE (5) DAYS PRIOR TO ANY EXCAVATION WORK:  
 MISS UTILITY 1-800-257-7777  
 VERIZON TELEPHONE COMPANY (410) 725-0976  
 HOWARD COUNTY BUREAU OF UTILITIES (410) 513-4900  
 T&T CABLE LOCATION (410) 513-4900  
 BALTIMORE GAS & ELECTRIC (410) 393-3533  
 STATE HIGHWAY ADMINISTRATION (410) 585-0100  
 HOWARD COUNTY DEPT. OF PUBLIC WORKS/CONSTRUCTION INSPECTIONS DIVISION (410) 531-5533 (410) 313-1880
- IN ACCORDANCE WITH SECTION 12B 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 DRIVEWAY, PORCHES OR DECKS. PORCHES OR DECKS MAY PROJECT NOT MORE THAN 10 FEET INTO THE FRONT OR REAR YARD SETBACK.
- ALL AREAS ARE MORE OR LESS.
- NO BURIAL GROUNDS OR CEMETERIES EXIST ON-SITE.
- STEEP SLOPES 25% OR GREATER WITH A CONTIGUOUS AREA OVER 20,000 SQ.FT. DO NOT EXIST ON SITE.
- NO HISTORIC DISTRICTS ARE ADJACENT TO THIS SITE. SITE IS NOT ADJACENT TO A DESIGNATED SCENIC ROAD.
- NO WETLANDS EXIST ON SITE PER FIELD INVESTIGATION BY MILDENBERG BOENDER AND ASSOCIATES ON OR ABOUT OCT. 2003.
- THIS SUBDIVISION IS EXEMPT FROM FOREST CONSERVATION PLAN REQUIREMENTS IN ACCORDANCE WITH SECTION 16.12(2)(b) (1) (ii) OF THE HOWARD COUNTY ZONING AND LAND DEVELOPMENT REGULATIONS FOR A MINOR SUBDIVISION THAT CREATES AN ADDITIONAL LOT AND HAS NO FURTHER SUBDIVISION POTENTIAL. ADDRESSED UNDER F-04-060.
- THE OPEN SPACE REQUIREMENT HAS BEEN SATISFIED VIA PAYMENT OF A FEE-IN-LIEU IN THE AMOUNT OF \$1,500.00 FOR LOT 2 UNDER F-04-060.
- DRIVEWAYS SHALL BE PROVIDED PRIOR TO ISSUANCE OF A USE AND OCCUPANCY PERMIT TO ENSURE SAFE ACCESS FOR FIRE AND EMERGENCY VEHICLES PER THE FOLLOWING MINIMUM REQUIREMENTS:  
 A) WIDTH - 12 FEET (14 FEET SERVING MORE THAN ONE RESIDENCE).  
 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 OF 45-FOOT TURNING RADIUS.  
 D) STRUCTURES (CULVERT/BRIDGES) - CAPABLE OF SUPPORTING 25 GROSS TONS (H25 LOADING).  
 E) DRAINAGE ELEMENTS - CAPABLE OF SAFELY PASSING 100-YEAR FLOOD WITH NO MORE THAN 1 FOOT DEPTH OVER DRIVEWAY SURFACE.  
 F) STRUCTURE CLEARANCES - MINIMUM 12 FEET  
 G) MAINTENANCE - SUFFICIENT TO ENSURE ALL WEATHER USE.
- FOR FLAG OR PIPESTEM LOTS, REFUSE COLLECTION, SNOW REMOVAL AND ROAD MAINTENANCE ARE PROVIDED TO THE JUNCTION OF THE FLAG OR PIPESTEM AND ROAD RIGHT-OF-WAY LINE AND NOT ONTO THE PIPESTEM LOT DRIVEWAY.
- PUBLIC WATER AND SEWER ALLOCATION WILL BE GRANTED AT THE TIME OF ISSUANCE OF THE BUILDING PERMIT IF CAPACITY IS AVAILABLE AT THAT TIME.
- THE OWNER, TENANT, 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.
- THIS PLAN IS SUBJECT TO THE AMENDED 5TH EDITION OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS PER COUNCIL BILL # 04S-2003 AND THE ZONING REGULATIONS AS AMENDED UNDER COUNCIL BILL # 75-2003. DEVELOPMENT OR CONSTRUCTION ON THESE LOTS MUST COMPLY WITH SETBACK AND BUFFER REGULATIONS IN EFFECT AT THE TIME OF SUBMISSION OF THE SITE DEVELOPMENT PLAN, WITH ANY PERMITTED APPLICATION OR BUILDING/GRADING PERMIT.
- THE 65 DBA NOISE CONTOUR LINE DRAWN ON THIS PLAN IS ADVISORY AS REQUIRED BY THE HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS/CONSTRUCTION INSPECTIONS DIVISION. THE 65 DBA NOISE CONTOUR LINE CANNOT BE CONSIDERED TO EXACTLY LOCATE THE 65 DBA NOISE EXPOSURE. THE 65 DBA NOISE LINE WAS ESTABLISHED BY HOWARD COUNTY TO ALERT DEVELOPERS, BUILDERS AND FUTURE RESIDENTS THAT AREAS BEYOND THIS THRESHOLD MAY EXCEED GENERALLY ACCEPTED NOISE LEVELS ESTABLISHED BY THE U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT.
- THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL. FINANCIAL SURETY FOR THE 10 REQUIRED SHADE TREES IN THE AMOUNT OF \$3,000.00 IS PART OF THE GRADING PERMIT APPLICATION FOR THESE LOTS.
- SOILS DATA BASED ON HOWARD COUNTY SOIL SURVEY DATED JULY 1968, SHEET 20.
- AT THE TIME OF INSTALLMENT, ALL SHRUBS AND OTHER PLANTINGS HEREWIT LISTED AND APPROVED FOR THIS SITE, SHALL BE OF THE PROPER HEIGHT REQUIREMENTS IN ACCORDANCE WITH THE HOWARD COUNTY DEVELOPMENT 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. NO LANDSCAPING SURETY UNTIL SUCH TIME AS ALL REQUIRED MATERIALS ARE PLANTED AND/OR REVISIONS ARE MADE TO APPLICABLE PLANS AND CERTIFICATES.
- NO CLEARING OF EXISTING VEGETATION IS PERMITTED WITHIN THE LANDSCAPED EDGE; HOWEVER, LANDSCAPE MAINTENANCE IS AUTHORIZED.
- SHOULD ANY TREE DESIGNATED FOR PRESERVATION, FOR WHICH LANDSCAPING CREDIT IS GIVEN, DIE PRIOR TO RELEASE OF BONDS, THE OWNER WILL BE REQUIRED TO REPLACE THE TREE WITH THE EQUIVALENT SPECIES OR WITH A TREE WHICH WILL OBTAIN THE SAME HEIGHT, SPREAD, AND GROWTH CHARACTERISTICS. THE REPLACEMENT TREE MUST BE A MINIMUM OF 2 1/2 TO 3 INCHES IN CALIPER AND INSTALLED AS REQUIRED IN THE LANDSCAPE MANUAL.
- SWM IS PROVIDED VIA THE USE OF RAIN GARDENS AND NON-ROOFTOP DISCONNECTION CREDIT.
- DRIVEWAY INTERSECTION FOR LOTS 1 AND 2 SHALL MEET HOWARD COUNTY STANDARD DETAIL R6.06.
- NO CULVERT REQUIRED FOR DRIVEWAY CROSSING LOT 1, DRAINAGE AREA IS LESS THAN 1.00 ACRE.



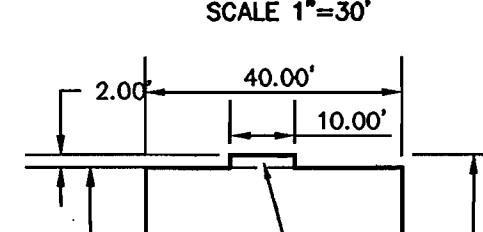
**CENTENNIAL**  
SCALE 1"=30'



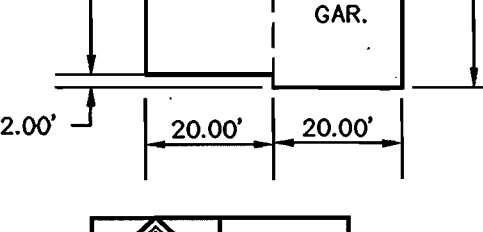
**GAR.**  
SCALE 1"=30'



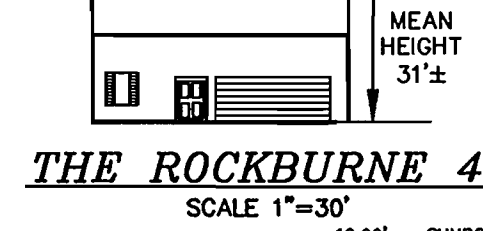
**THE ROCKBURNE 38**  
SCALE 1"=30'



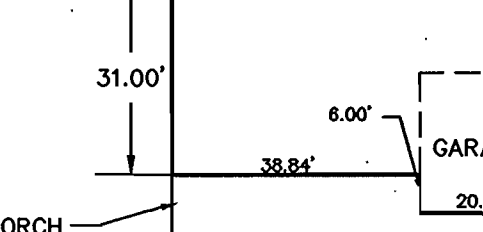
**THE ROCKBURNE 40**  
SCALE 1"=30'



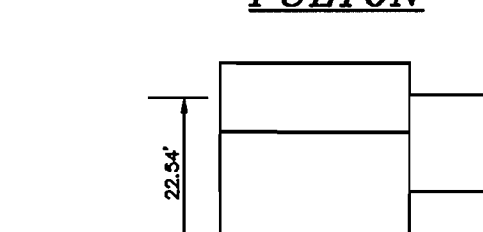
**THE ROCKBURNE 40**  
SCALE 1"=30'



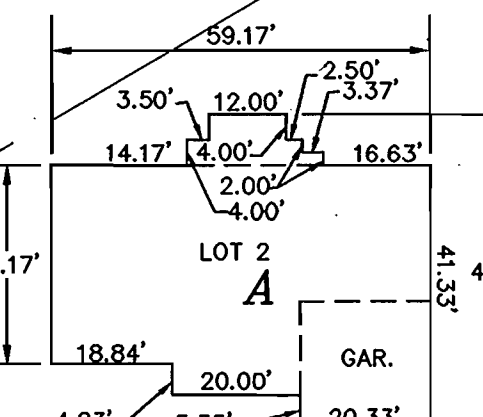
**THE ROCKBURNE 40**  
SCALE 1"=30'



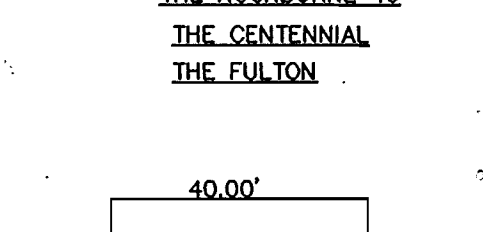
**FULTON**  
SCALE 1"=30'



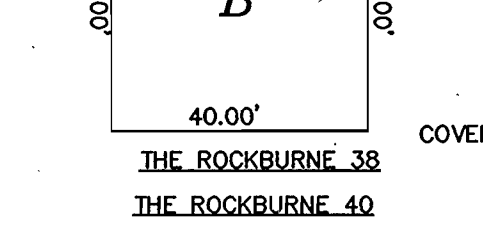
**ELEVATION**



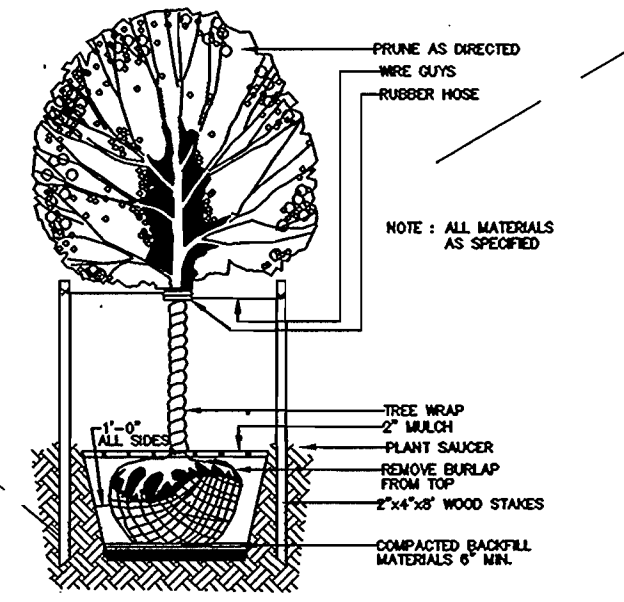
**GENERIC BOX**



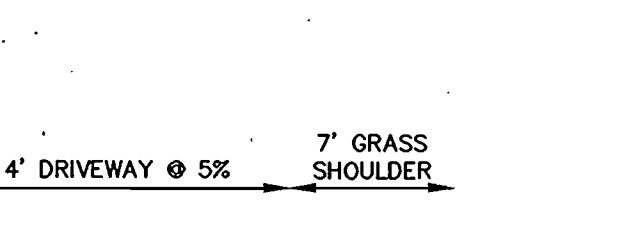
**COVERED PORCH**



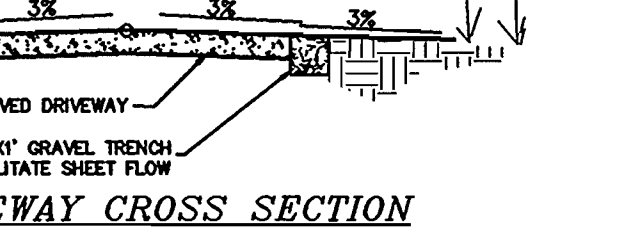
**ELEVATION**



**TYPICAL DECIDUOUS TREE PLANTING DETAIL**  
NOT TO SCALE



**DRIVEWAY CROSS SECTION**



**RAIN GARDEN CROSS SECTION**

**PLANT LIST**

QUANTITY	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE
1	⊙	PLATANUS OCCIDENTALIS	AMERICAN SYCAMORE	2-1/2" - 3" CAL.
1	⊙	ILEX GLABRA	INK BERRY	2' - 3' HT.
6	⊙	LOBELIA SIPHILITICA	GREAT BLUE LOBELIA	1 GAL. CONTAINER
4	⊙	ONOCLEA SENSIBILIS	SENSITIVE FERN	1 GAL. CONTAINER
3	⊙	ASTER NOVAE-ANGLIAE	NEW ENGLAND ASTER	1 GAL. CONTAINER

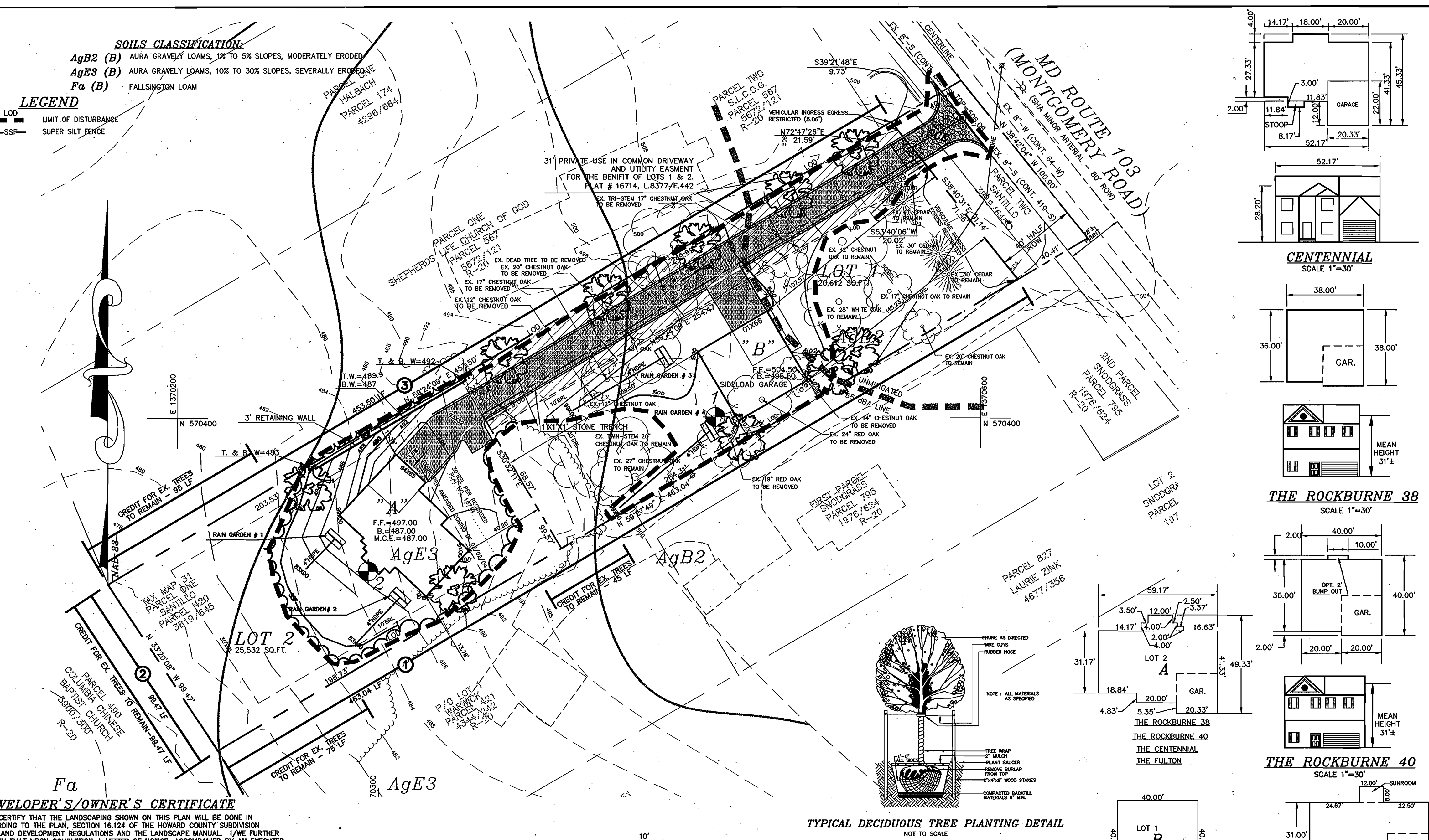
TOTAL: 15 PERENNIALS, 1 SHRUB, 1 TREE (PER EACH RAIN GARDEN)

**PLANTING SCHEDULE**

QUANTITY	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE
10	⊙	ACER RUBRUM 'RED SUNSET'	RED SUNSET RED MAPLE	2 1/2" - 3" CAL.

**RAIN GARDEN INFORMATION**

RAIN GARDEN LOCATION	DIMENSIONS	BOTTOM OF RAIN GARDEN ELEVATION	PONDING DEPTH	DEPTH OF GRAVEL	UNDERDRAIN INVERT	WEIR ELEVATION
1 NORTH CORNER LOT 1	5'X10'	485.50	0.5'	2.5'	483.00	486.00
2 SOUTH CORNER LOT 1	5'X10'	485.50	0.5'	2.5'	483.00	486.00
3 NORTH CORNER LOT 2	5'X10'	502.20	0.5'	2.5'	499.00	503.00
4 SOUTH CORNER LOT 2	5'X10'	498.50	0.5'	2.5'	499.00	499.00



**SOILS CLASSIFICATION**  
 AgB2 (B) AURA GRAVELLY LOAMS, 1% TO 5% SLOPES, MODERATELY ERODED  
 AgE3 (B) AURA GRAVELLY LOAMS, 10% TO 30% SLOPES, SEVERELY ERODED  
 Fa (B) FALLSINGTON LOAM

**LEGEND**  
 LOD LIMIT OF DISTURBANCE  
 SSS SUPER SILT FENCE

**DEVELOPER'S/OWNER'S CERTIFICATE**

I/WE CERTIFY THAT THE LANDSCAPING SHOWN ON THIS PLAN WILL BE DONE IN ACCORDANCE WITH THE PLAN, SECTION 16.124 OF THE HOWARD COUNTY SUBDIVISION AND LAND DEVELOPMENT REGULATIONS AND THE LANDSCAPE MANUAL. I/WE FURTHER CERTIFY THAT UPON COMPLETION A LETTER OF NOTICE, ACCOMPANIED BY AN EXECUTED ONE YEAR GUARANTEE OF PLANT MATERIALS, WILL BE SUBMITTED TO THE DEPARTMENT OF PLANNING AND ZONING.

DATE: 7/15/04

**DEVELOPER'S CERTIFICATE**

I CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERFORMING ON-SITE INSPECTION BY THE NATURAL RESOURCE CONSERVATION SERVICE.

**ENGINEER'S CERTIFICATE**

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 NATURAL RESOURCE CONSERVATION SERVICE.

DATE: 7/15/04

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

DATE: 7/15/04

DATE: 7/21/04

DATE: 7/21/04

DATE: 7/21/04

DATE: 7/21/04

DATE: 7/21/04

DATE: 7/21/04

DATE: 7/21/04

**SCHEDULE A : PERIMETER LANDSCAPED EDGE**

CATEGORY	ADJACENT TO PERIMETER PROPERTIES	TOTAL		
LANDSCAPE TYPE	A (PERIMETER 1)	A (PERIMETER 2)	A (PERIMETER 3)	TOTAL
	463.04 LF	99.47 LF	453.50 LF	
	YES, CREDIT IS BEING TAKEN FOR 120 LF OF LANDSCAPE BUFFER.	YES, CREDIT IS BEING TAKEN FOR 98.47 LF OF LANDSCAPE BUFFER.	YES, CREDIT IS BEING TAKEN FOR 85 LF OF LANDSCAPE BUFFER.	
NUMBER OF PLANTS REQUIRED	6 SHADE TREES	0 SHADE TREES	6 SHADE TREES	12 SHADE TREES
	0 EVERGREEN TREES	0 EVERGREEN TREES	0 EVERGREEN TREES	0 EVERGREEN TREES
	0 SHRUBS	0 SHRUBS	0 SHRUBS	0 SHRUBS
CREDIT FOR EXISTING VEGETATION	2 SHADE TREES *	N/A	N/A	2 SHADE TREES
	0 EVERGREEN TREES			0 EVERGREEN TREES
	0 SHRUBS			0 SHRUBS
NUMBER OF PLANTS PROVIDED	4 SHADE TREES	0 SHADE TREES	6 SHADE TREES	10 SHADE TREES
	0 EVERGREEN TREES	0 EVERGREEN TREES	0 EVERGREEN TREES	0 EVERGREEN TREES
	0 OTHER TREES (2-1 SUBSTITUTION)	0 SUBSTITUTION TREES	0 SUBSTITUTION TREES	0 SUBSTITUTION TREES
	0 SHRUBS (10-1 SUBSTITUTION)	0 SHRUBS	0 SHRUBS	0 SHRUBS

\* CREDIT ALONG PERIMETER 1 FOR ONE (1) EX. 27' CHESTNUT OAK AND ONE (1) EX. 20' CHESTNUT OAK.

HOWARD SOIL CONSERVATION DISTRICT

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

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 OF WHEATGRASS LOVEGRASS DURING THE PERIOD OF OCTOBER 16 THRU FEBRUARY 28, PROTECT SITE BY: OPTION (1) - 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING. OPTION (2) - USE 500. OPTION (3) - SEED WITH 60 LBS./ACRE KENTUCKY 31 TALL FESCUE AND MULCH WITH 2 TONS/ACRE WELL ANCHORED STRAW.

MULCHING - APPLY 1-1/2 TO 2 TONS PER ACRE (70 TO 90 LBS./1000 SQ.FT.) OF UNWETTED 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 SEEDING AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDINGS.

TEMPORARY SEEDING NOTES

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

SEEDBED PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISKING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, FOR 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 1 THRU OCTOBER 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 WHEATGRASS LOVEGRASS (1.07 LBS./1000 SQ.FT.). FOR THE PERIOD NOVEMBER 16 THRU NOVEMBER 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 SOO.

MULCHING: APPLY 1-1/2 TO 2 TONS PER ACRE (70 TO 90 LBS./1000 SQ.FT.) OF UNWETTED WHEAT FREE SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GAL PER ACRE (5 GAL/1000 SQ.FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES 8 FEET OR HIGHER, USE 348 GAL PER ACRE (8 GAL/1000 SQ.FT.) FOR ANCHORING.

REFER TO THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR ADDITIONAL RATES AND METHODS NOT COVERED.

STANDARD SEDIMENT CONTROL NOTES

- 1) A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS, SEDIMENT CONTROL DIVISION PRIOR TO THE START OF ANY CONSTRUCTION. (311-1655).
- 2) ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE MOST CURRENT MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, AND REVISIONS THEREOF.
- 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 PROJECT SITE.
- 4) ALL SEDIMENT TRAPS/BASINS SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND THEIR PERIMETER IN ACCORDANCE WITH VOL. 1, CHAPTER 12, OF THE HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE.
- 5) ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1981 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDING (SEC.51), SOO (SEC. 54), TEMPORARY SEEDING (SEC. 50) AND MULCHING (SEC.52). TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY 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 OF SITE: 1.06 ACRES; AREA DISTURBED: 0.88 ACRES; AREA TO BE ROOFED OR PAVED: 0.17 ACRES; AREA TO BE VEGETATIVELY STABILIZED: 0.51 ACRES; TOTAL CUT: 500 CU. YDS.; TOTAL FILL: 500 CU. YDS.; TOTAL WASTE/BORROW AREA LOCATION: N/A

THESE QUANTITIES ARE FOR PERMIT PURPOSES ONLY. CONTRACTOR IS REQUIRED TO PROVIDE HIS OWN QUANTITY MEASUREMENTS.

- 8) ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
- 9) ADDITIONAL SEDIMENT CONTROL 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 CAN BE BACK FILLED AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER.

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

- I. THIS PRACTICE IS LIMITED TO AREAS HAVING 2:1 OR FLATTER SLOPES WHERE: a. THE TEXTURE OF THE EXPOSED SUBSOIL/PARENT MATERIAL IS NOT ADEQUATE TO PRODUCE 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 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-SSS 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. 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 ONDERS, STONES, SLAG, COARSE FRAGMENTS, GRAVEL, STICKS, ROOTS, TRASH, OR OTHER MATERIALS LARGER THAN 1 1/2" IN DIAMETER. 2. TOPSOIL MUST BE FREE OF PLANTS OR PLANT PARTS SUCH AS BERMAUDA GRASS, QUACKGRASS, JOHNSONSON GRASS, HUTCHESON POISON Ivy, TRIFLE, 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 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. 4. FOR SITES HAVING DISTURBED AREAS UNDER 5 ACRES: I. PLACE TOPSOIL (IF REQUIRED) AND APPLY SOIL AMENDMENTS AS SPECIFIED IN 2.0.0 VEGETATIVE STABILIZATION - SECTION I - VEGETATIVE STABILIZATION METHODS AND MATERIALS. II. FOR SITES HAVING DISTURBED AREAS OVER 5 ACRES: a. ON SOIL MEETING TOPSOIL SPECIFICATIONS, OBTAIN TEST RESULTS INDICATING FERTILIZER AND LIME AMENDMENTS REQUIRED TO BRING THE SOIL INTO COMPLIANCE WITH THE FOLLOWING: a. pH FOR TOPSOILS SHALL BE BETWEEN 6.0 AND 7.5. IF THE TESTED SOIL DEMONSTRATES A pH OF LESS THAN 6.0, SUFFICIENT LIME SHALL BE PRESCRIBED TO RAISE THE pH TO 6.5 OR HIGHER. b. ORGANIC CONTENT OF TOPSOIL SHALL BE NOT LESS THAN 1.5 PERCENT BY WEIGHT. c. TOPSOIL HAVING SOLUBLE SALT CONTENT GREATER THAN 500 PARTS PER MILLION SHALL NOT BE USED. d. NO SOO OR SEED SHALL BE PLACED ON SOIL WHICH HAS BEEN TREATED WITH SOIL STERILANTS OR CHEMICALS USED FOR WEED CONTROL UNTIL SUFFICIENT TIME HAS ELAPSED (14 DAYS MIN.) TO PERMIT DISSIPATION OF PHYTO-TOXIC MATERIALS.

NOTE: TOPSOIL SUBSTITUTES 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.

- II. PLACE TOPSOIL (IF REQUIRED) AND APPLY SOIL AMENDMENTS AS SPECIFIED IN 2.0.0 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, SLOPE SILT FENCE AND SEDIMENT TRAPS AND BASINS. 2. GRADES ON THE AREAS TO BE TOPSOILED, WHICH HAVE BEEN PREVIOUSLY ESTABLISHED, SHALL BE MAINTAINED, ALBERT 4" - 8" HIGHER IN ELEVATION. 3. TOPSOIL SHALL BE UNIFORMLY DISTRIBUTED IN A 4" TO 8" 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. 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. 4. TOPSOIL SHALL NOT BE PLACED WHILE THE TOPSOIL OR SUBSOIL IS IN A FROZEN OR MUDDY CONDITION, WHEN THE SUBSOIL IS EXCESSIVELY WET OR IN A CONDITION THAT MAY OTHERWISE BE DETRIMENTAL TO PROPER GRADING AND SEEDING PREPARATION. 5. ALTERNATIVE FOR PERMANENT SEEDING - INSTEAD OF APPLYING THE FULL AMOUNTS OF LIME AND COMMERCIAL FERTILIZER, COMPOSTED SLUDGE AND AMENDMENTS MAY BE APPLIED AS SPECIFIED BELOW: I. COMPOSTED SLUDGE MATERIAL FOR USE AS A SOIL CONDITIONER FOR SITES HAVING DISTURBED AREAS OVER 5 ACRES SHALL BE TESTED AND AMENDMENTS FOR SITES HAVING AREAS UNDER 5 ACRES SHALL CONFORM TO THE FOLLOWING REQUIREMENTS: a. COMPOSTED SLUDGE SHALL BE SUPPLIED BY, OR ORIGINATE FROM, A PERSON OR PERSONS WHO ARE PERMITTED (AT THE TIME OF ACQUISITION OF THE COMPOST) BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT UNDER COMAR 26.14.06. 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/1,000 SQUARE FEET. II. 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.

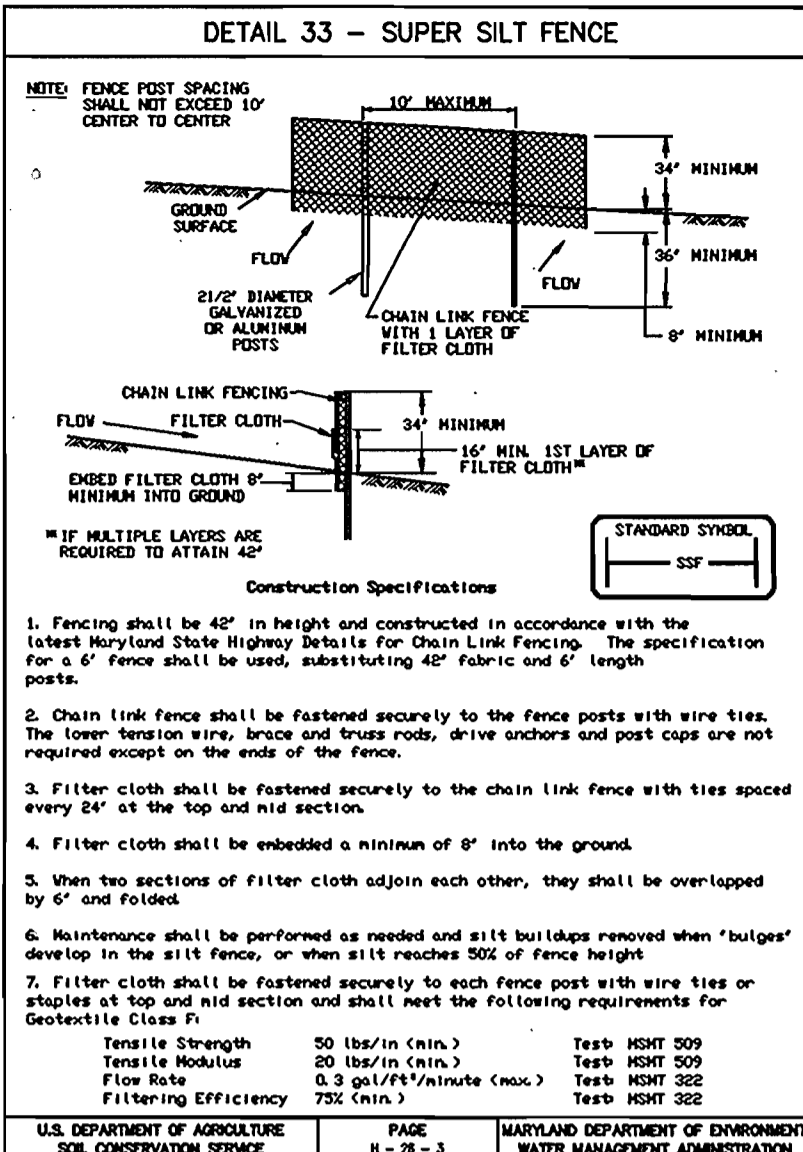
REFERENCES: GUIDELINE SPECIFICATIONS, SOIL PREPARATION AND SOODING, MD-VI, PUB. #1, COOPERATIVE EXTENSION SERVICE, UNIVERSITY OF MARYLAND AND VIRGINIA POLYTECHNIC INSTITUTES, REVISED 1973.

TEMPORARY DUST CONTROL MEASURES

- 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 CLOSDS TO THE SURFACE. THIS IS AN EMERGENCY MEASURE WHICH SHOULD BE USED BEFORE SOIL BLOWING STARTS. BEGIN FLOWING ON WINDWARD SIDE OF SITE. CHISEL-TYPE PLOWS APCED 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 AMENDMENTS AS NEEDED. AT NO TIME SHOULD THE SITE BE IRRIGATED TO THE POINT THAT RUNOFF BEGINS TO FLOW.
- 5. BARRIERS - SOLID BOARD FENCES, SILT FENCES, SNOW FENCES, BURLAP FENCES, STRAW BALES, AND SIMILAR 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.
- 6. CALCIUM CHLORIDE - APPLY AT RATES THAT WILL KEEP SURFACE MOIST. MAY NEED RETREATMENT.

SEQUENCE OF CONSTRUCTION

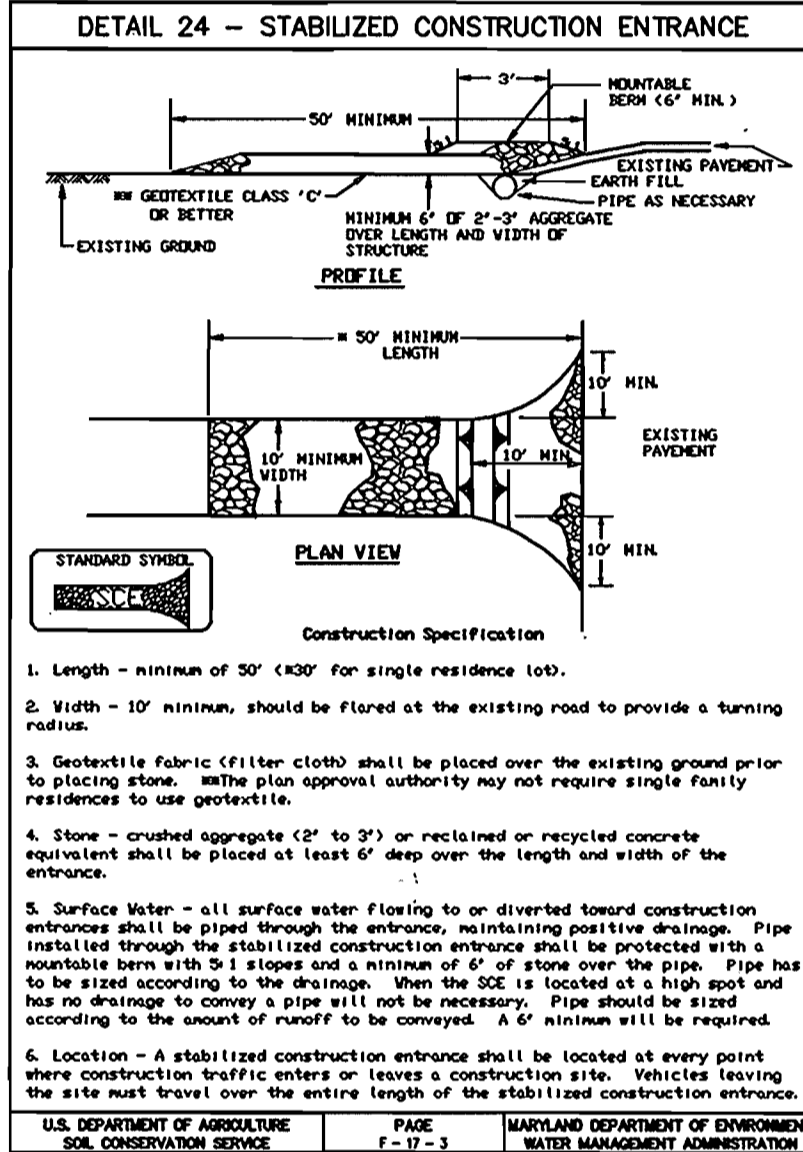
- 1. OBTAIN GRADING PERMIT (ONE DAY)
- 2. INSTALL TREE PROTECTIVE FENCING (ONE DAY)
- 3. CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE AT LOCATION SHOWN (ONE DAY)
- 4. CONSTRUCT SILT FENCE (TWO DAYS)
- 5. COMPLETE CONSTRUCTION AS SHOWN. (20 DAYS)
- 6. COMPLETE FINE GRADING OF SITE TO GRADES INDICATED.(TWO DAYS)
- 7. SEED AND MULCH ALL REMAINING DISTURBED AREAS. (TWO DAYS)
- 8. UPON STABILIZATION OF THE SITE AND WITH THE APPROVAL OF THE SEDIMENT CONTROL INSPECTOR, REMOVE SEDIMENT CONTROL DEVICES AND STABILIZE REMAINING DISTURBED AREAS. (ONE DAY)



SUPER SILT FENCE

Slope	Slope Steepness	Slope Length (Maximum)	Silt Fence Length (Maximum)
0 - 10%	0 - 10:1	Unlimited	Unlimited
10 - 20%	10:1 - 5:1	200 feet	1,500 feet
20 - 30%	5:1 - 3:1	100 feet	1,000 feet
30 - 50%	3:1 - 2:1	100 feet	500 feet
50% +	2:1 +	50 feet	250 feet

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE PAGE 8 - 29 - 34 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION



U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE PAGE 7 - 17 - 3 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

DEVELOPERS CERTIFICATE

I CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE NATURAL RESOURCE CONSERVATION SERVICE.

Signature: Christopher Brown, DATE: 6/15/04

Signature: Christopher Brown, DATE: 6/15/04

ENGINEER'S CERTIFICATE

I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A FEASIBLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL BY THE NATURAL RESOURCE CONSERVATION SERVICE.

Signature: Jacob Hikmat, DATE: 6/15/04

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

Signature: John M. ... DATE: 7/15/04

Signature: John M. ... DATE: 7/15/04

Signature: John M. ... DATE: 7/21/04

Signature: John M. ... DATE: 7/21/04

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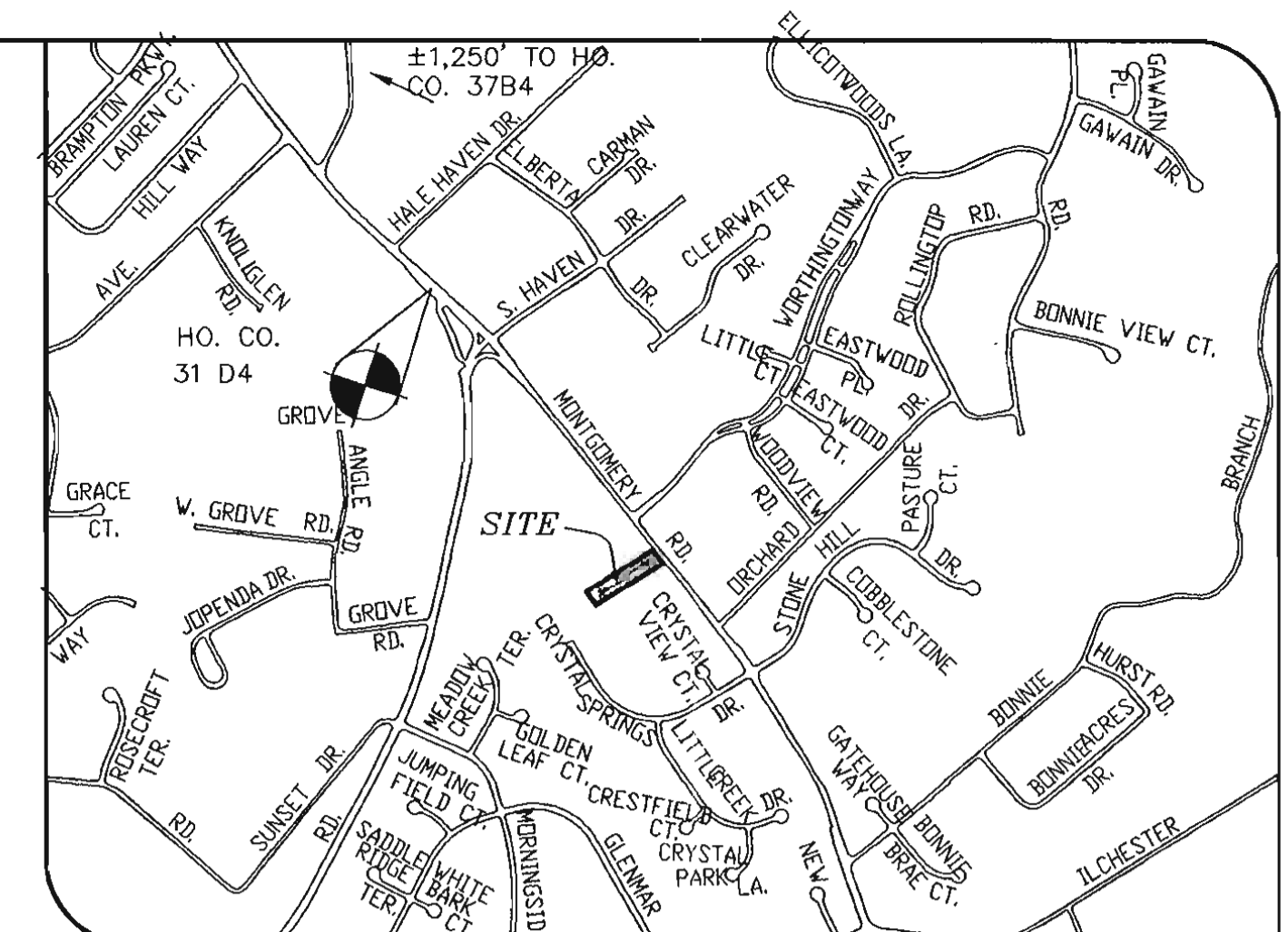
Project: 04-010, Illustration: 04-010, Scale: SAA/MMT, Date: MAY 2004, Approval: RHH

SANTILLO PROPERTY LOTS 1 AND 2, SINGLE FAMILY DETACHED, TAX MAP 31 - PARCEL 640, HOWARD COUNTY, MARYLAND, SITE DEVELOPMENT PLAN

MILDENBERG, BOENDER & ASSOC., INC. Engineers Planners Surveyors, 5072 Dorsey Hall Drive, Suite 202, Ellicott City, Maryland 21042, (410) 987-0286 Fax: (301) 521-5621

**SOILS CLASSIFICATION**  
**AgB2 (B)** AURA GRAVELLY LOAMS, 1% TO 5% SLOPES, MODERATELY ERODED  
**AgE3 (B)** AURA GRAVELLY LOAMS, 10% TO 30% SLOPES, SEVERELY ERODED  
**Fa (B)** FALLSINGTON LOAM

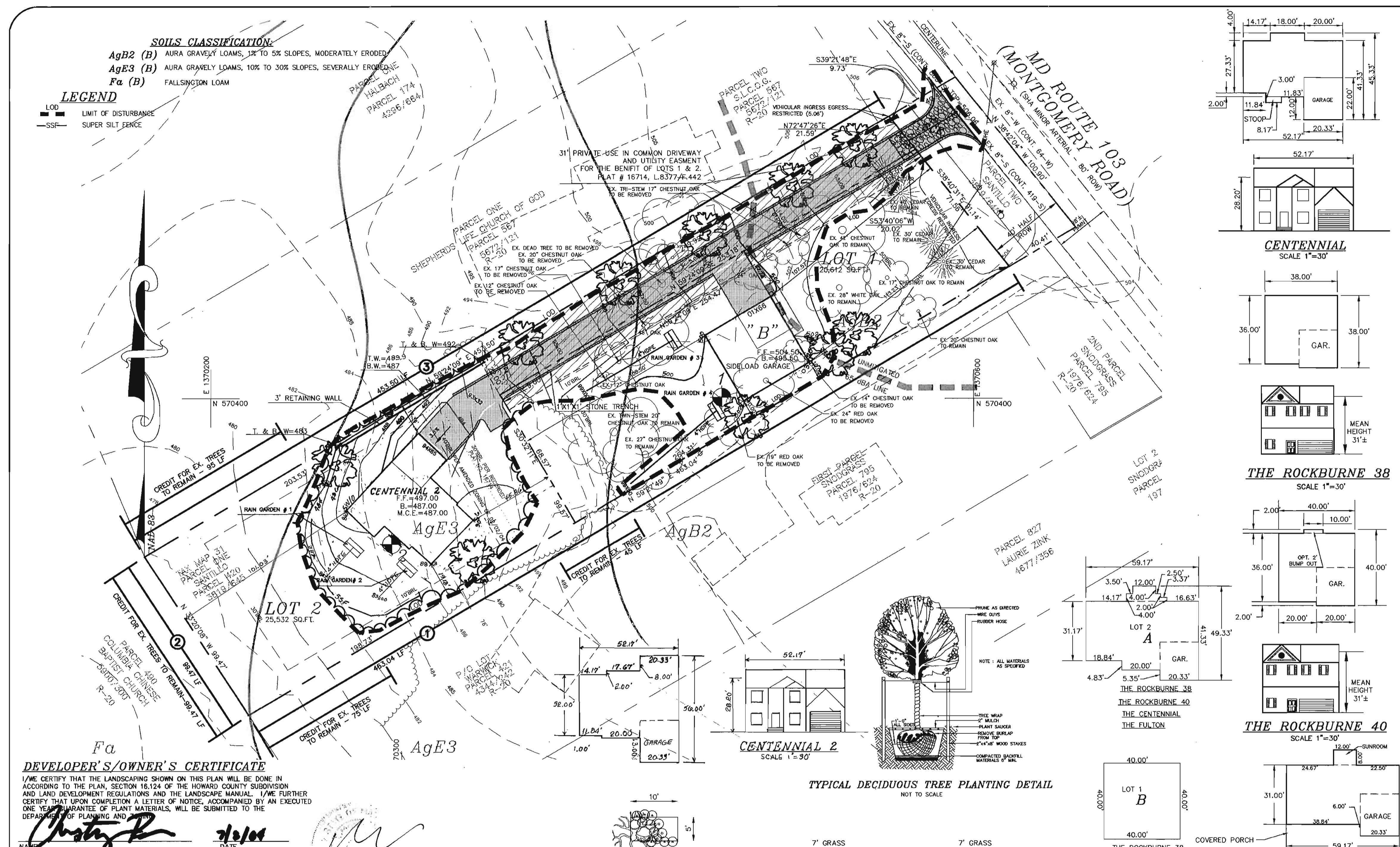
**LEGEND**  
 LOD LIMIT OF DISTURBANCE  
 SSF SUPER SILT FENCE



**VICINITY MAP**  
 SCALE 1"=1000'

**GENERAL NOTES**

- THE SUBJECT PROPERTY IS ZONED R-20 PER THE 02/02/2004 COMPREHENSIVE ZONING PLAN.
- SITE ANALYSIS DATA:  
 TAX MAP: 31 PARCEL: 420 GRID: 14  
 ELECTION DISTRICT: FIRST AND SECOND.  
 ZONING: R-20  
 TOTAL AREA: 1.06 AC.±  
 PROPOSED USE: SINGLE FAMILY DETACHED.  
 DPZ FILES: 04-06
- TOPOGRAPHY SHOWN HEREON IS BASED ON A FIELD RUN SURVEY BY MILDENBERG, BOENDER & ASSOC. INC. ON FEBRUARY 2003.
- COORDINATES BASED ON NAD '83 (HORIZONTAL) AND NVD '29 (VERTICAL) MARYLAND COORDINATE SYSTEM AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS NO. 31A3, 31D4.  
 STA. NO. 31A3 N 573,217.877 E 1,368,237.622 ELEV. 487.641 (CONCRETE MONUMENT)  
 STA. NO. 31D4 N 571,700.659 E 1,369,606.281 ELEV. 495.179 (CONCRETE MONUMENT)
- THIS SUBDIVISION IS IN THE METROPOLITAN DISTRICT. PUBLIC WATER AND SEWER WILL BE UTILIZED. LOTS 1 AND 2 WILL BE SERVED UNDER CONTRACT # 419-S & 64-W.
- CONTRACTOR TO VERIFY THE LOCATION OF ALL EXISTING UTILITIES ON SITE PRIOR TO COMMENCING CONSTRUCTION.
- THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/CONSTRUCTION INSPECTIONS DIVISION AT (410) 313-1880 AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE START OF WORK.
- THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE (5) DAYS PRIOR TO ANY EXCAVATION WORK:  
 MISS UTILITY 1-800-257-7777  
 VERIZON TELEPHONE COMPANY (410) 725-9976  
 HOWARD COUNTY BUREAU OF UTILITIES (410) 313-4900  
 AT&T CABLE LOCATION DIVISION (410) 393-2533  
 BALTIMORE GAS & ELECTRIC (410) 685-0123  
 STATE HIGHWAYS ADMINISTRATION (410) 331-5533  
 HOWARD COUNTY DEPT. OF PUBLIC WORKS/ CONSTRUCTION INSPECTION DIVISION (410) 313-1880
- IN ACCORDANCE WITH SECTION 125 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 16 FEET INTO THE FRONT OR REAR YARD SETBACK.
- ALL AREAS ARE MORE OR LESS.
- NO BURIAL GROUNDS OR CEMETERIES EXIST ON-SITE.
- STEEP SLOPES 25% OR GREATER WITH A CONTIGUOUS AREA OVER 20,000 SQ.FT. DO NOT EXIST ON SITE.
- NO HISTORIC DISTRICTS ARE ADJACENT TO THIS SITE. SITE IS NOT ADJACENT TO A DESIGNATED SCENIC ROAD.
- NO WETLANDS EXIST ON SITE PER FIELD INVESTIGATION BY MILDENBERG BOENDER AND ASSOCIATES ON OR ABOUT OCT. 2003.
- THIS SUBDIVISION IS EXEMPT FROM FOREST CONSERVATION PLAN REQUIREMENTS IN ACCORDANCE WITH SECTION 16.1202 (b) (1) (iii), OF THE HOWARD SUBDIVISION AND LAND DEVELOPMENT REGULATIONS FOR A MINOR SUBDIVISION THAT CREATES AN ADDITIONAL LOT AND HAS NO FURTHER SUBDIVISION POTENTIAL. ADDRESS UNDER F-04-060.
- THE OPEN SPACE REQUIREMENT HAS BEEN SATISFIED VIA PAYMENT OF A FEE-IN-LIEU IN THE AMOUNT OF \$1,500.00 FOR LOT 2 UNDER F-04-060.
- DRIVEWAYS SHALL BE PROVIDED PRIOR TO ISSUANCE OF A USE AND OCCUPANCY PERMIT TO ENSURE SAFE ACCESS FOR FIRE AND EMERGENCY VEHICLES PER THE FOLLOWING MINIMUM REQUIREMENTS:  
 A) WIDTH - 12 FEET (14 FEET SERVING MORE THAN ONE RESIDENCE)  
 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 OF 45-FOOT TURNING RADIUS.  
 D) STRUCTURES (CULVERT/BRIDGES) - CAPABLE OF SUPPORTING 25 GROSS TONS (H25 LOADING).  
 E) DRAINAGE ELEMENTS - CAPABLE OF SAFELY PASSING 100-YEAR FLOOD WITH NO MORE THAN 1 FOOT DEPTH OVER DRIVEWAY SURFACE.  
 F) STRUCTURE CLEARANCES - MINIMUM 12 FEET  
 G) MAINTENANCE - SUFFICIENT TO ENSURE ALL WEATHER USE.
- FOR FLAG OR PIPESTEM LOTS, REFUSE COLLECTION, SNOW REMOVAL, AND ROAD MAINTENANCE ARE PROVIDED TO THE JUNCTION OF THE FLAG OR PIPESTEM AND ROAD RIGHT-OF-WAY LINE AND NOT ONTO THE PIPESTEM LOT DRIVEWAY.
- PUBLIC WATER AND SEWER ALLOCATION WILL BE GRANTED AT THE TIME OF ISSUANCE OF THE BUILDING PERMIT IF CAPACITY IS AVAILABLE AT THAT TIME.
- THE OWNER, TENANT, AND/OR THEIR AGENTS SHALL BE RESPONSIBLE FOR MAINTENANCE OF THE REQUIRED LANDSCAPING, INCLUDING BOTH PLANT MATERIALS AND HERMS, 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.
- THIS PLAN IS SUBJECT TO THE AMENDED 5TH EDITION OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS PER COUNCIL BILL #45-2003 AND THE ZONING REGULATIONS AS AMENDED UNDER COUNCIL BILL #75-2003. DEVELOPMENT OR CONSTRUCTION ON THESE LOTS MUST COMPLY WITH SETBACK AND BUFFER REGULATIONS IN EFFECT AT THE TIME OF SUBMISSION OF THE SITE DEVELOPMENT PLAN, WAIVER PETITION APPLICATION OR BUILDING/GRADING PERMIT.
- THE 65 dbA NOISE CONTOUR LINE DRAWN ON THIS PLAN IS ADVISORY AS REQUIRED BY THE HOWARD COUNTY DESIGN MANUAL, CHAPTER 5, REVISED FEBRUARY, 1992 AND CANNOT BE CONSIDERED TO EXACTLY LOCATE THE 65 dbA NOISE EXPOSURE. THE 65 dbA NOISE LINE WAS ESTABLISHED BY HOWARD COUNTY TO ALERT DEVELOPERS, BUILDERS AND FUTURE RESIDENTS THAT AREAS BEYOND THIS THRESHOLD MAY EXCEED GENERALLY ACCEPTED NOISE LEVELS ESTABLISHED BY THE U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT.
- THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROMISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL. SURETY FOR THE 10 REQUIRED SHADE TREES IN THE AMOUNT OF \$3,000.00 IS PART OF THE GRADING PERMIT APPLICATION FOR THESE LOTS.
- SOILS DATA BASED ON HOWARD COUNTY SOIL SURVEY DATED JULY 1968, SHEET 20.
- AT THE TIME OF INSTALLMENT, ALL SHRUBS AND OTHER PLANTINGS HERETHIN LISTED AND APPROVED FOR THIS SITE, SHALL BE OF THE PROPER HEIGHT REQUIREMENTS 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 THIS 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 APPLICABLE PLANS AND CERTIFICATES.
- NO CLEARING OF EXISTING VEGETATION IS PERMITTED WITHIN THE LANDSCAPED EDGE; HOWEVER, LANDSCAPE MAINTENANCE IS AUTHORIZED.
- SHOULD ANY TREE DESIGNATED FOR PRESERVATION, FOR WHICH LANDSCAPING CREDIT IS GIVEN, DIE PRIOR TO RELEASE OF BONDS, THE OWNER WILL BE REQUIRED TO REPLACE THE TREE WITH THE EQUIVALENT SPECIES OR WITH A TREE WHICH WILL OBTAIN THE SAME HEIGHT, SPREAD, AND GROWTH CHARACTERISTICS. THE REPLACEMENT TREE MUST BE A MINIMUM OF 2 1/2 TO 3 INCHES IN CALIPER AND INSTALLED AS REQUIRED IN THE LANDSCAPE MANUAL.
- SWM IS PROVIDED VIA THE USE OF RAIN GARDENS AND NON-ROOF-TOP DISCONNECTION CREDIT.
- DRIVEWAY INTERSECTION FOR LOTS 1 AND 2 SHALL MEET HOWARD COUNTY STANDARD DETAIL R6.06.
- NO CULVERT REQUIRED FOR DRIVEWAY CROSSING LOT 1, DRAINAGE AREA IS LESS THAN 1.00 ACRE.



**DEVELOPER'S/OWNER'S CERTIFICATE**  
 I/WE CERTIFY THAT THE LANDSCAPING SHOWN ON THIS PLAN WILL BE DONE IN ACCORDANCE TO THE PLAN, SECTION 16.124 OF THE HOWARD COUNTY SUBDIVISION AND LAND DEVELOPMENT REGULATIONS AND THE LANDSCAPE MANUAL. I/WE FURTHER CERTIFY THAT UPON COMPLETION A LETTER OF NOTICE, ACCOMPANIED BY AN EXECUTED ONE YEAR WARRANTY OF PLANT MATERIALS, WILL BE SUBMITTED TO THE DEPARTMENT OF PLANNING AND ZONING.

Signature: *Christy R.* DATE: 7/15/04

**DEVELOPER'S CERTIFICATE**  
 I CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE NATURAL RESOURCE CONSERVATION SERVICE.

Signature: *Christy R.* DATE: 7/15/04

**ENGINEER'S CERTIFICATE**  
 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 NATURAL RESOURCE CONSERVATION SERVICE.

Signature: *R. JACOB HIKMAT* DATE: 7/15/04

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

Signature: *Jim Meyer* DATE: 7/15/04

Signature: *John V. Robertson* DATE: 7/15/04

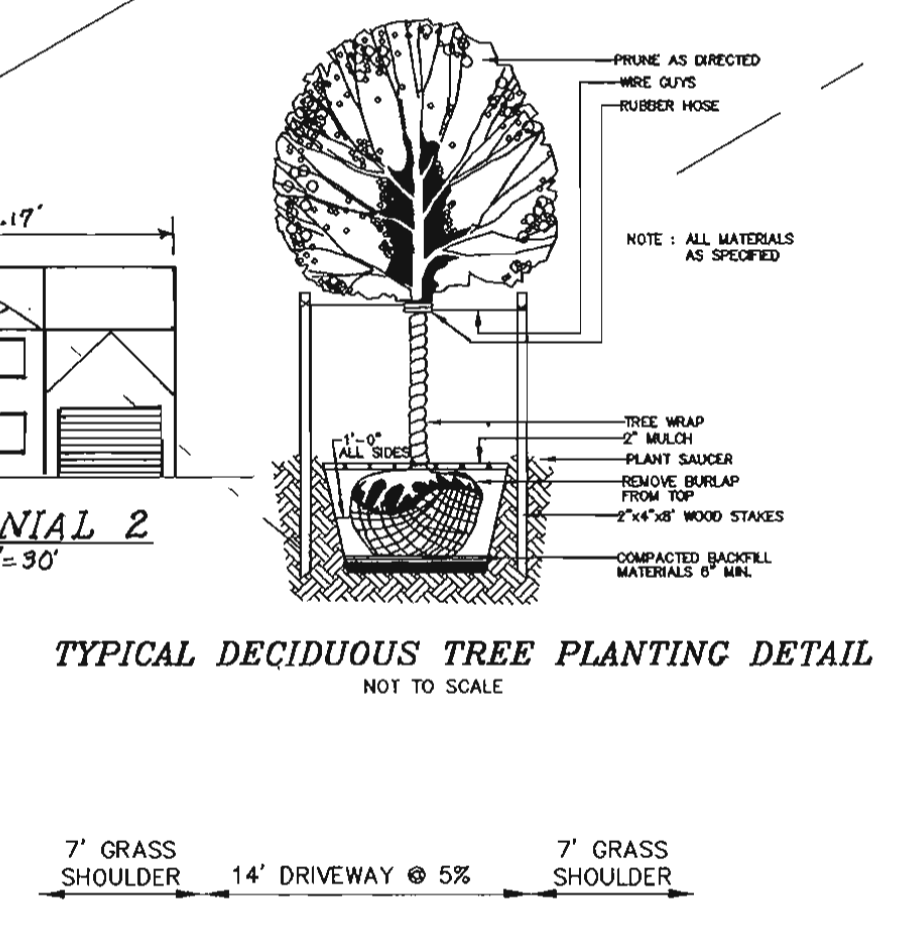
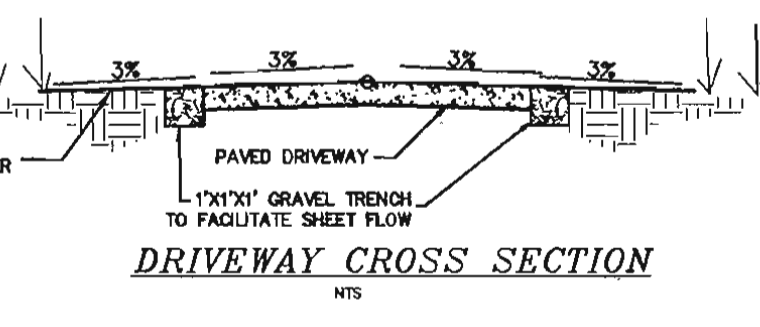
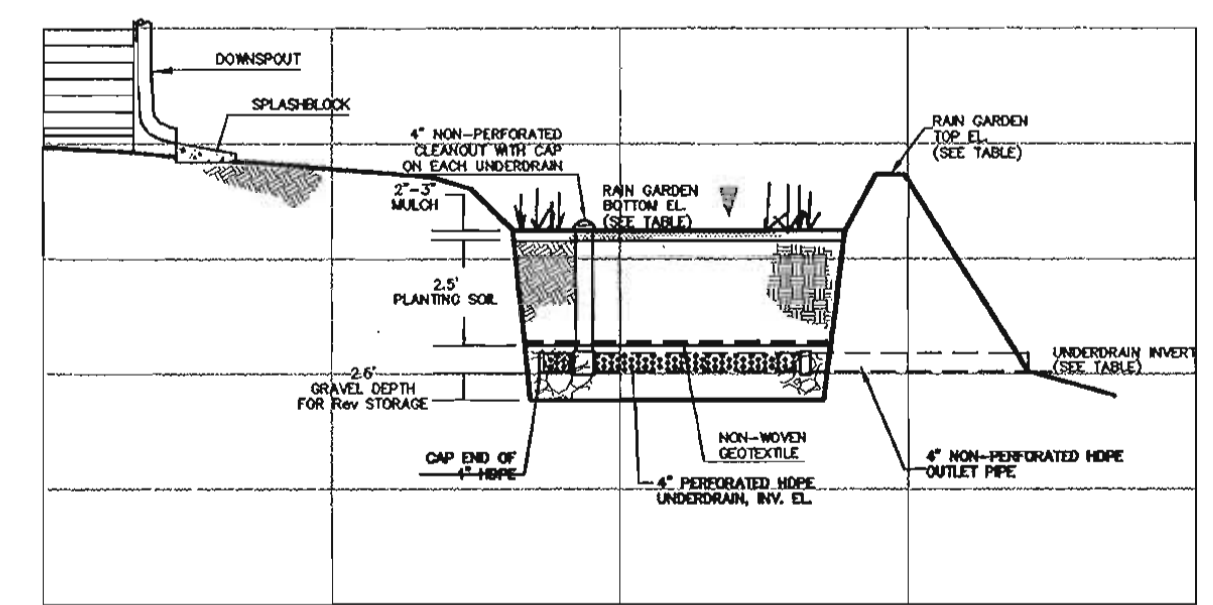
Signature: *John V. Robertson* DATE: 7/15/04

Signature: *David L. Taylor* DATE: 7/22/04

Signature: *David L. Taylor* DATE: 7/22/04

**SCHEDULE A: PERIMETER LANDSCAPED EDGE**

CATEGORY	ADJACENT TO PERIMETER PROPERTIES			TOTAL
	A (PERIMETER 1)	A (PERIMETER 2)	A (PERIMETER 3)	
LANDSCAPE TYPE	A (PERIMETER 1)	A (PERIMETER 2)	A (PERIMETER 3)	
LINEAR FEET OF PERIMETER	463.04 LF	99.47 LF	453.50 LF	
CREDIT FOR EXISTING VEGETATION (YES, NO, LINEAR FEET)	YES, CREDIT IS BEING TAKEN FOR 120 LF OF LANDSCAPE BUFFER	YES, CREDIT IS BEING TAKEN FOR 99.47 LF OF LANDSCAPE BUFFER	YES, CREDIT IS BEING TAKEN FOR 95 LF OF LANDSCAPE BUFFER	
NUMBER OF PLANTS REQUIRED	6 SHADE TREES 0 EVERGREEN TREES 0 SHRUBS	0 SHADE TREES 0 EVERGREEN TREES 0 SHRUBS	6 SHADE TREES 0 EVERGREEN TREES 0 SHRUBS	12 SHADE TREES 0 EVERGREEN TREES 0 SHRUBS
CREDIT FOR EXISTING VEGETATION	2 SHADE TREES + 0 EVERGREEN TREES	N/A	N/A	2 SHADE TREES 0 EVERGREEN TREES
NUMBER OF PLANTS PROVIDED	4 SHADE TREES 0 EVERGREEN TREES 0 SUBSTITUTION TREES 0 SHRUBS (10:1 SUBSTITUTION)	0 SHADE TREES 0 EVERGREEN TREES 0 SUBSTITUTION TREES 0 SHRUBS	6 SHADE TREES 0 EVERGREEN TREES 0 SUBSTITUTION TREES 0 SHRUBS	10 SHADE TREES 0 EVERGREEN TREES 0 SUBSTITUTION TREES 0 SHRUBS



**PLANT LIST**

QUANTITY	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE
1	⊙	PLATANUS OCCIDENTALIS	AMERICAN SYCAMORE	2-1/2" - 3" CAL.
1	⊙	ILEX GLABRA	INK BERRY	2' - 3' HT.
6	⊙	LOBELIA SIPHILITICA	GREAT BLUE LOBELIA	1 GAL. CONTAINER
4	⊙	ONOCLEA SENSIBILIS	SENSITIVE FERN	1 GAL. CONTAINER
3	⊙	ASTER NOVAE-ANGLIAE	NEW ENGLAND ASTER	1 GAL. CONTAINER

TOTAL: 13 PERENNIALS, 1 SHRUB, 1 TREE (PER EACH RAIN GARDEN)

**PLANTING SCHEDULE**

QUANTITY	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE
10	⊙	ACER RUBRUM 'RED SUNSET'	RED SUNSET RED MAPLE	2 1/2" - 3" CAL.

**RAINGARDEN INFORMATION**

RAINGARDEN	LOCATION	DIMENSIONS	BOTTOM OF RAINGARDEN ELEVATION	PONDING DEPTH	DEPTH OF GRAVEL	UNDERDRAIN INVERT	WEIR ELEVATION
1	NORTH CORNER LOT 2	5'X10'	484.50	0.5'	2.5'	482.00	485.00
2	SOUTH CORNER LOT 2	5'X10'	485.50	0.5'	2.5'	483.00	486.00
3	NORTH CORNER LOT 1	5'X10'	502.20	0.5'	2.5'	499.00	503.00
4	SOUTH CORNER LOT 1	5'X10'	498.50	0.5'	2.5'	499.00	499.00

**PERMIT INFORMATION CHART**

SUBDIVISION NAME	SECTION/AREA	LOT/PARCEL #
SANTILLO PROPERTY	N/A	PARCEL 420
PLAT # OR L/F BLOCK #	ZONE	TAX MAP
16714	14	R-20
WATER CODE	ELEC. DIST.	CENSUS TRACT
G-01	31	FIRST 6011.02
PROPOSED IMPROVEMENTS:	SEWER CODE	
CONSTRUCT HOUSE, ASSOCIATED GRADING, AND SEDIMENT CONTROL	1257025	

**ADDRESS CHART**

LOT/PARCEL NO.	STREET ADDRESS
LOT 1	5006 MONTGOMERY ROAD
LOT 2	5002 MONTGOMERY ROAD

**OWNER**  
 HARMONY BUILDERS  
 4228 COLUMBIA RD.  
 ELICOTT CITY, MARYLAND 21042

**SANTILLO PROPERTY**  
 LOTS 1 AND 2  
 SINGLE FAMILY DETACHED  
 TAX MAP 31 - PARCEL 420  
 FIRST ELECTION DISTRICT

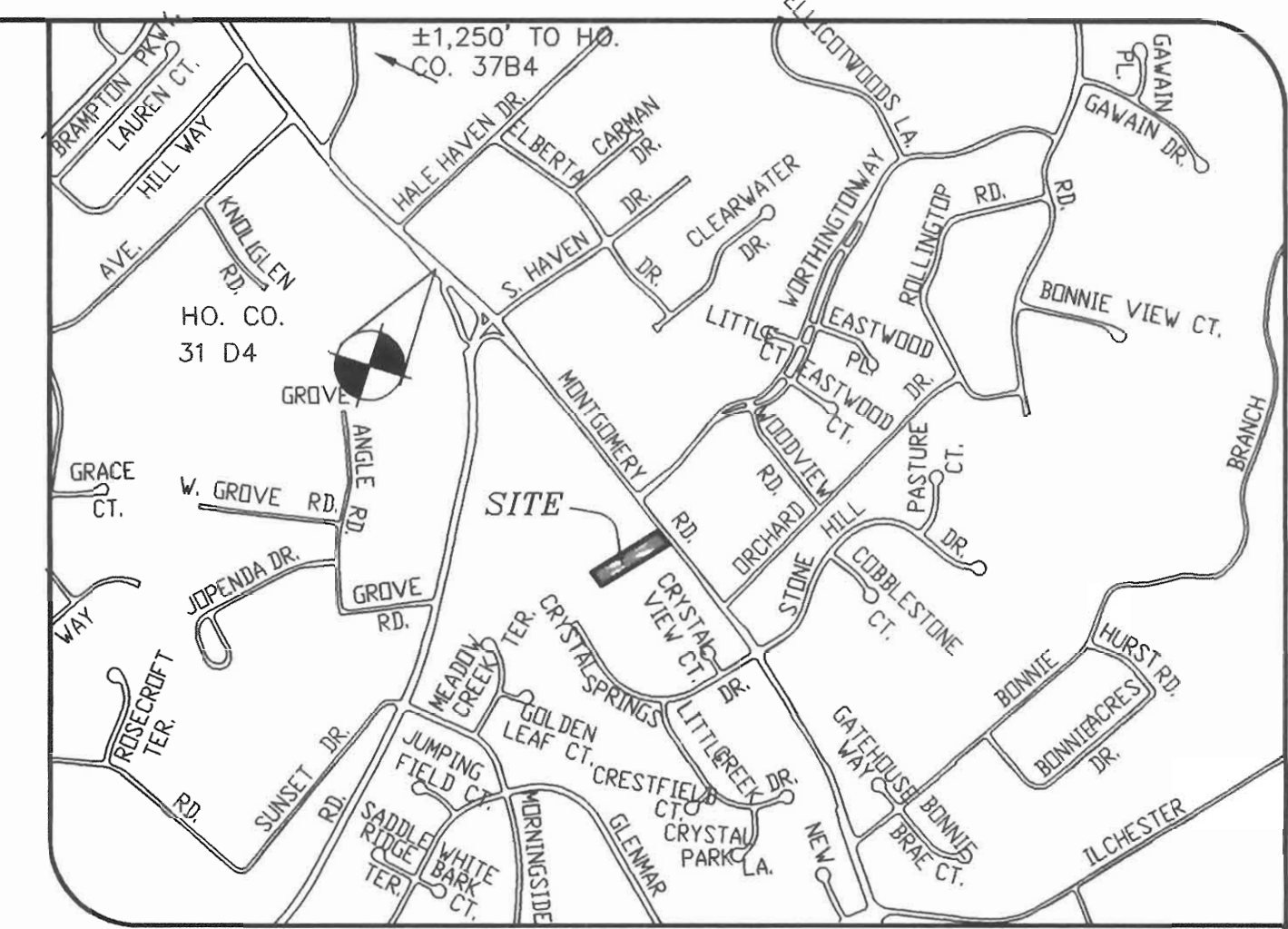
**MILDENBERG, BOENDER & ASSOC., INC.**  
 Surveyors  
 Engineers  
 Planners

5072 Dorsey Hall Drive, State 202, Ellicott City, Maryland 21042  
 (410) 997-0286 Mob. (301) 621-5621 Fax. (410) 997-0286 Fax.

date: MAY 2004  
 project: 04-010  
 illustration: engineering  
 scale: SAA  
 approval: RJH  
 1"=30'

date: 11/17/04  
 description: ADD HOUSE MODEL CENTENNIAL 2 AND REVISE HOUSE TYPE LOT 2  
 revisions:

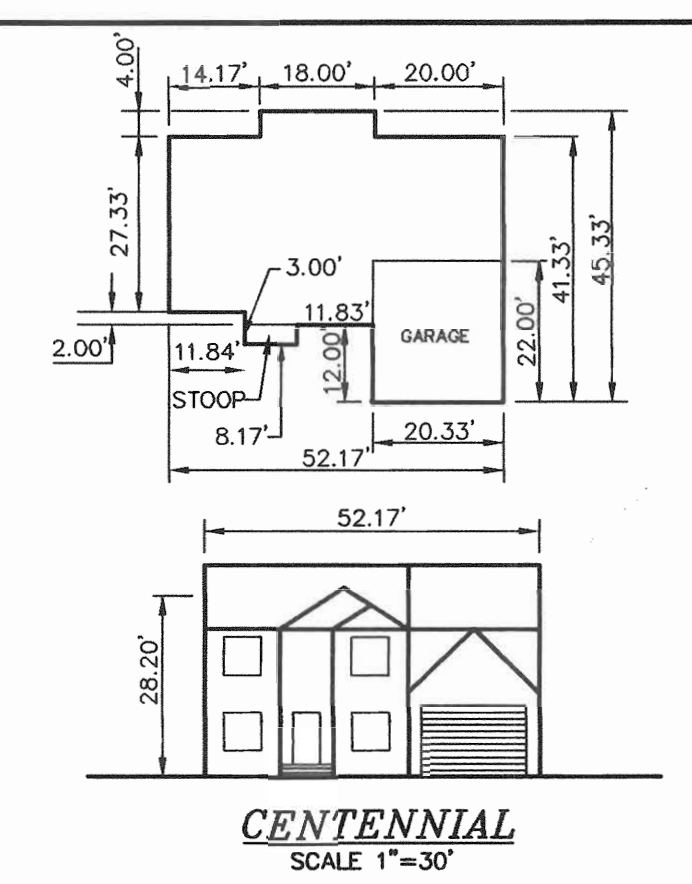
1 OF 2



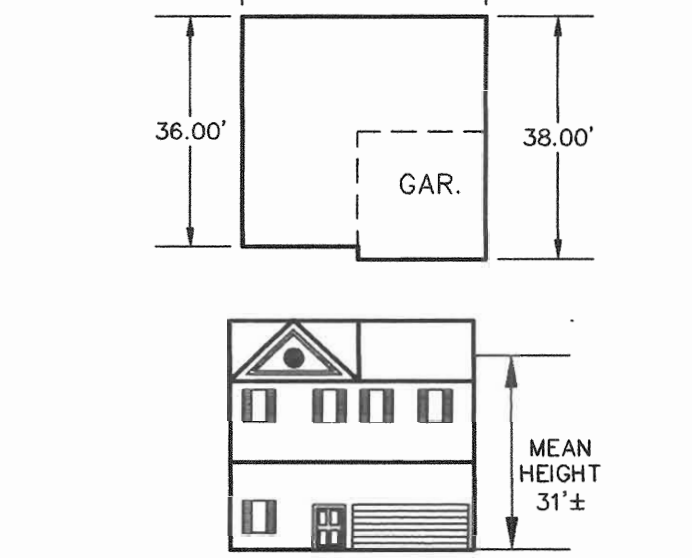
**VICINITY MAP**  
SCALE 1"=1000'

**GENERAL NOTES**

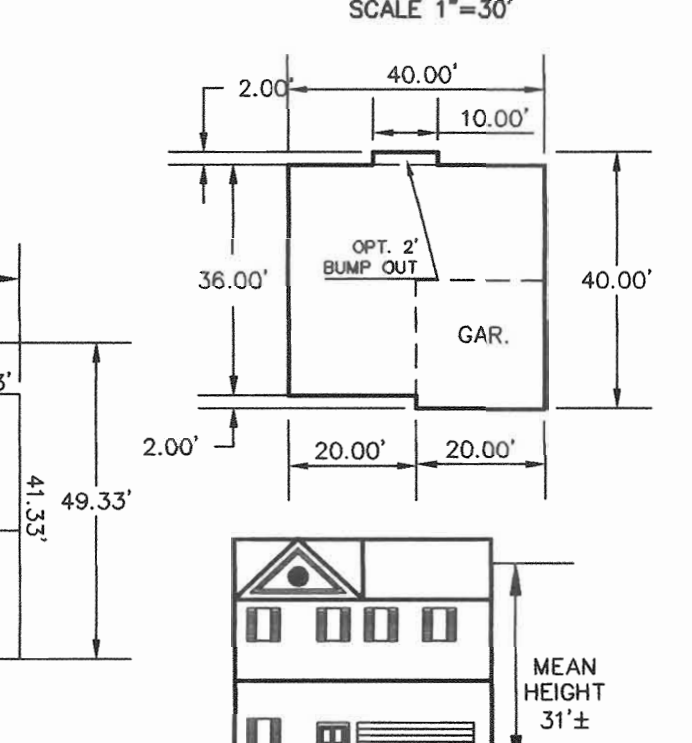
- THE SUBJECT PROPERTY IS ZONED R-20 PER THE 02/02/2004 COMPREHENSIVE ZONING PLAN.
- SITE ANALYSIS DATA:  
 TAX MAP: 31, PARCEL: 420 GRID: 14  
 ELECTION DISTRICT: FIRST AND SECOND.  
 ZONING: R-20  
 TOTAL AREA: 1.06 AC.±  
 PROPOSED USE: SINGLE FAMILY DETACHED.  
 DPZ FILES: F-04-060
- TOPOGRAPHY SHOWN HEREON IS BASED ON A FIELD RUN SURVEY BY MILDENBERG, BOENDER & ASSOC., INC. ON FEBRUARY 2003.
- COORDINATES BASED ON NAD '83 (HORIZONTAL) AND NVD '29 (VERTICAL) MARYLAND COORDINATE SYSTEM AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS NO. 31A3, 31D4  
 STA. NO. 31A3 N 573,217.877 E 1,368,237.622 ELEV. 487.641 (CONCRETE MONUMENT)  
 STA. NO. 31D4 N 571,700.659 E 1,369,606.281 ELEV. 495.179 (CONCRETE MONUMENT)
- THIS SUBDIVISION IS IN THE METROPOLITAN DISTRICT. PUBLIC WATER AND SEWER WILL BE UTILIZED. LOTS 1 AND 2 WILL BE SERVED UNDER CONTRACT # 419-S & 64-W.
- CONTRACTOR TO VERIFY THE LOCATION OF ALL EXISTING UTILITIES ON SITE PRIOR TO COMMENCING CONSTRUCTION.
- THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/CONSTRUCTION INSPECTIONS DIVISION AT (410) 313-1880 AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE START OF WORK.
- THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE (5) DAYS PRIOR TO ANY EXCAVATION WORK:  
 MISS UTILITY 1-800-267-7777  
 VERIZON TELEPHONE COMPANY (410) 725-9976  
 HOWARD COUNTY BUREAU OF UTILITIES (410) 313-4900  
 AT&T CABLE LOCATION DIVISION (410) 393-3333  
 BALTIMORE GAS & ELECTRIC (410) 885-0123  
 STATE HIGHWAY ADMINISTRATION (410) 531-5533  
 HOWARD COUNTY DEPT. OF PUBLIC WORKS/CONSTRUCTION INSPECTION DIVISION (410) 313-1880
- 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 WAY PROJECT NOT MORE THAN 10 FEET INTO THE FRONT OR REAR YARD SETBACK.
- ALL AREAS ARE MORE OR LESS.
- NO BURIAL GROUNDS OR CEMETERIES EXIST ON-SITE.
- STEEP SLOPES 25% GREATER WITH A CONTIGUOUS AREA OVER 20,000 SQ.FT. DO NOT EXIST ON SITE.
- NO HISTORIC DISTRICTS ARE ADJACENT TO THIS SITE. SITE IS NOT ADJACENT TO A DESIGNATED SCENIC ROAD.
- NO WETLANDS EXIST ON SITE PER FIELD INVESTIGATION BY MILDENBERG BOENDER AND ASSOCIATES ON OR ABOUT OCT. 2003.
- THIS SUBDIVISION IS SUBJECT TO FOREST CONSERVATION PLAN REQUIREMENTS IN ACCORDANCE WITH SECTION 16.1202 (b) (1) (iii) OF THE HOWARD SUBDIVISION AND LAND DEVELOPMENT REGULATIONS FOR A MINOR SUBDIVISION THAT CREATES AN ADDITIONAL LOT AND HAS NO FURTHER SUBDIVISION POTENTIAL. ADDRESSED UNDER F-04-060.
- THE OPEN SPACE REQUIREMENT HAS BEEN SATISFIED UPON PAYMENT OF A FEE-IN-LIEU IN THE AMOUNT OF \$1,500.00 FOR LOT 2 UNDER F-04-060.
- DRIVEWAYS SHALL BE PROVIDED PRIOR TO ISSUANCE OF A USE AND OCCUPANCY PERMIT TO ENSURE SAFE ACCESS FOR FIRE AND EMERGENCY VEHICLES PER THE FOLLOWING MINIMUM REQUIREMENTS:  
 A) WIDTH - 12 FEET (14 FEET SERVING MORE THAN ONE RESIDENCE).  
 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 OF 45-FOOT TURNING RADIUS.  
 D) STRUCTURES (CULVERTS/BRIDGES) - CAPABLE OF SUPPORTING 25 GROSS TONS (H25 LOADING).  
 E) DRAINAGE ELEMENTS - CAPABLE OF SAFELY PASSING 100-YEAR FLOOD WITH NO MORE THAN 1 FOOT DEPTH OVER DRIVEWAY SURFACE.  
 F) STRUCTURE CLEARANCES - MINIMUM 12 FEET  
 G) MAINTENANCE - SUFFICIENT TO ENSURE ALL WEATHER USE.
- FOR FLAG OR PIPESTEM LOTS, REFUSE COLLECTION, SNOW REMOVAL AND ROAD MAINTENANCE ARE PROVIDED TO THE JUNCTION OF THE FLAG OR PIPESTEM AND ROAD RIGHT-OF-WAY LINE AND NOT ONTO THE PIPESTEM LOT DRIVEWAY.
- PUBLIC WATER AND SEWER ALLOCATION WILL BE GRANTED AT THE TIME OF ISSUANCE OF THE BUILDING PERMIT IF CAPACITY IS AVAILABLE AT THAT TIME.
- THE OWNER, TENANT, 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.
- THIS PLAN IS SUBJECT TO THE AMENDED 5TH EDITION OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS PER COUNCIL BILL #45-2003 AND THE ZONING REGULATIONS AS AMENDED UNDER COUNCIL BILL #75-2003. DEVELOPMENT OR CONSTRUCTION ON THESE LOTS MUST COMPLY WITH SETBACK AND BUFFER REGULATIONS IN EFFECT AT THE TIME OF SUBMISSION OF THE SITE DEVELOPMENT PLAN, WAIVER PETITION APPLICATION OR BUILDING/GRADING PERMIT.
- THE 65 dbA NOISE CONTOUR LINE DRAWN ON THIS PLAN IS ADVISORY AS REQUIRED BY THE HOWARD COUNTY DESIGN MANUAL, CHAPTER 5, REVISED FEBRUARY, 1992 AND CANNOT BE CONSIDERED TO EXACTLY LOCATE THE 65 dbA NOISE EXPOSURE. THE 65 dbA NOISE LINE WAS ESTABLISHED BY HOWARD COUNTY TO ALERT DEVELOPERS, BUILDERS AND FUTURE RESIDENTS THAT AREAS BEYOND THIS THRESHOLD MAY EXCEED GENERALLY ACCEPTED NOISE LEVELS ESTABLISHED BY THE U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT.
- THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL. FINANCIAL SURETY FOR THE 10 REQUIRED SHADE TREES IN THE AMOUNT OF \$3,000.00 IS PART OF THE GRADING PERMIT APPLICATION FOR THESE LOTS.
- SOILS DATA BASED ON HOWARD COUNTY SOIL SURVEY DATED JULY 1968, SHEET 20.
- AT THE TIME OF INSTALLMENT, ALL SHRUBS AND OTHER PLANTINGS HEREWITH LISTED AND APPROVED FOR THIS SITE SHALL BE THE FIRM'S RESPONSIBILITY. THE OWNER WILL BE RESPONSIBLE FOR 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 THIS 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 APPLICABLE PLANS AND CERTIFICATES.
- NO CLEARING OF EXISTING VEGETATION IS PERMITTED WITHIN THE LANDSCAPED EDGE; HOWEVER, LANDSCAPE MAINTENANCE IS AUTHORIZED.
- SHOULD ANY TREE DESIGNATED FOR PRESERVATION, FOR WHICH LANDSCAPING CREDIT IS GIVEN, DIE PRIOR TO RELEASE OF BONDS, THE OWNER WILL BE REQUIRED TO REPLACE THE TREE WITH THE EQUIVALENT SPECIES OR WITH A TREE WHICH OBTAIN THE SAME HEIGHT, SPREAD, AND GROWTH CHARACTERISTICS. THE REPLACEMENT TREE MUST BE A MINIMUM OF 2 1/2 TO 3 INCHES IN CALIPER AND INSTALLED AS REQUIRED IN THE LANDSCAPE MANUAL.
- SWM IS PROVIDED VIA THE USE OF RAIN GARDENS AND NON-ROOFTOP DISCONNECTION CREDIT.
- DRIVEWAY INTERSECTION FOR LOTS 1 AND 2 SHALL MEET HOWARD COUNTY STANDARD DETAIL R6.06.
- NO CULVERT REQUIRED FOR DRIVEWAY CROSSING LOT 1, DRAINAGE AREA IS LESS THAN 1.00 ACRE.



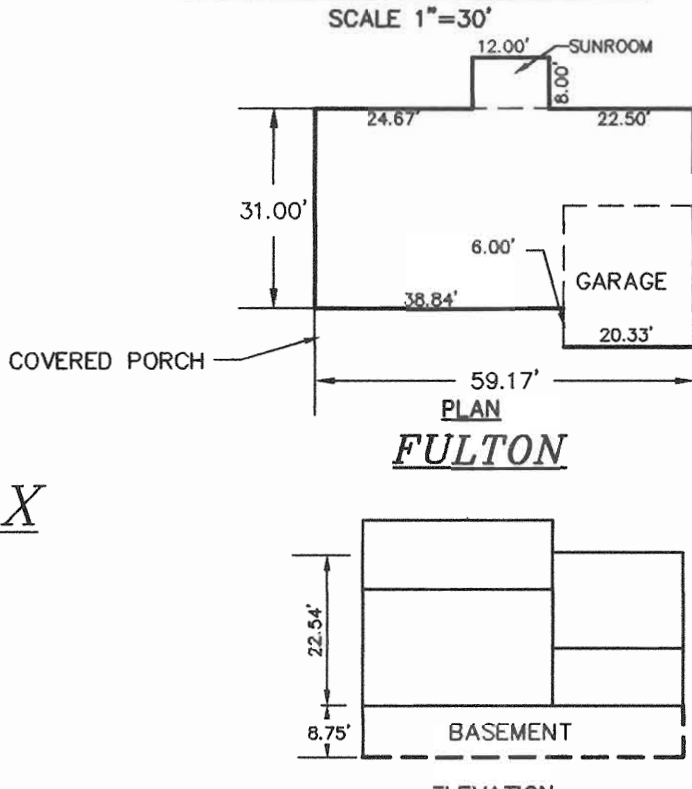
**CENTENNIAL**  
SCALE 1"=30'



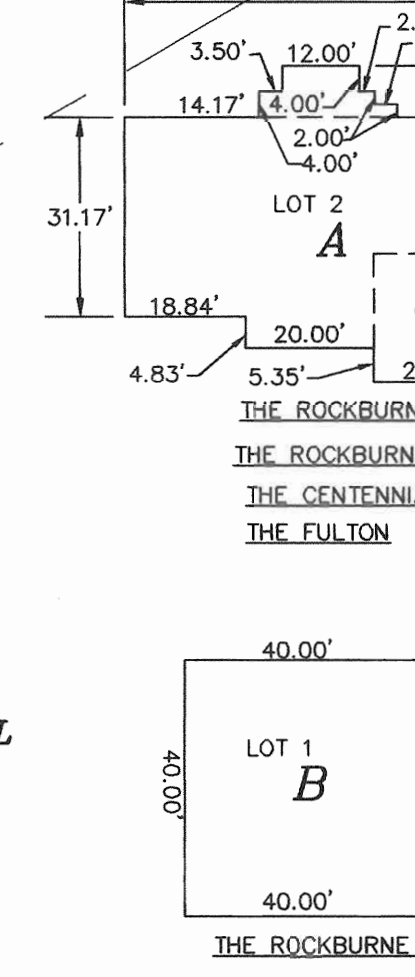
**THE ROCKBURNE 38**  
SCALE 1"=30'



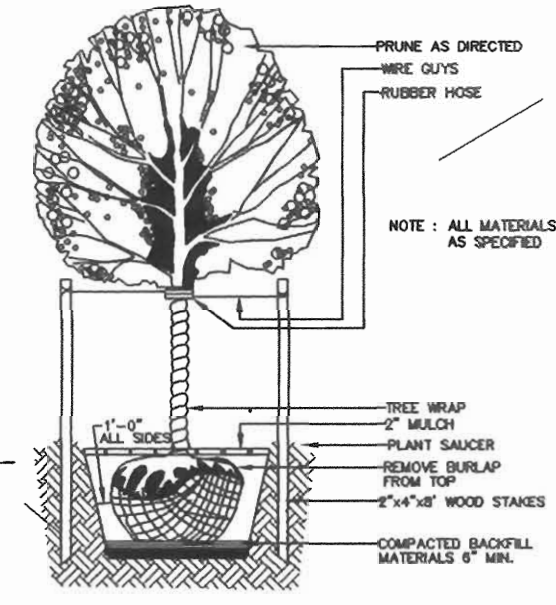
**THE ROCKBURNE 40**  
SCALE 1"=30'



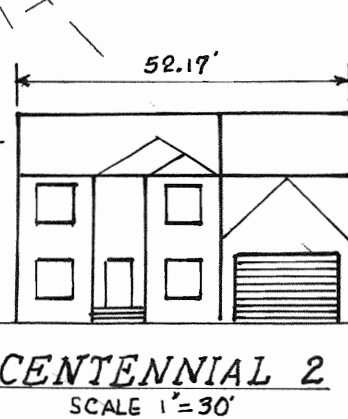
**FULTON**  
SCALE 1"=30'



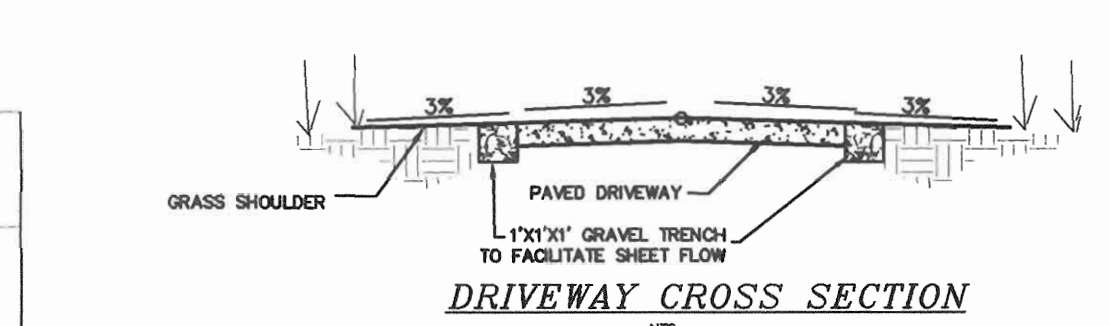
**GENERIC BOX**  
SCALE 1"=30'



**TYPICAL DECIDUOUS TREE PLANTING DETAIL**  
NOT TO SCALE



**CENTENNIAL 2**  
SCALE 1"=30'



**DRIVEWAY CROSS SECTION**

**PLANT LIST**

QUANTITY	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE
1	☼	PLATANUS OCCIDENTALIS	AMERICAN SYCAMORE	2-1/2" - 3" CAL.
1	☉	ILEX GLABRA	INK BERRY	2' - 3' HT.
6	☉	LOBELIA SIPHILICA	GREAT BLUE LOBELIA	1 GAL. CONTAINER
4	☉	ONOCLEA SENSIBILIS	SENSITIVE FERN	1 GAL. CONTAINER
3	☉	ASTER NOVAE-ANGLIAE	NEW ENGLAND ASTER	1 GAL. CONTAINER

TOTAL: 13 PERENNIALS, 1 SHRUB, 1 TREE (PER EACH RAIN GARDEN)

**PLANTING SCHEDULE**

QUANTITY: 10 ACER RUBRUM 'RED SUNSET' RED SUNSET RED MAPLE 2 1/2" - 3" CAL.

TOTAL TO SHADE TREES

RAIN GARDEN	LOCATION	DIMENSIONS	BOTTOM OF RAIN GARDEN ELEVATION	PONDING DEPTH	DEPTH OF GRAVEL	UNDERDRAIN INVERT	WEIR ELEVATION
1	NORTH CORNER LOT 1	5'X10'	484.50	0.5'	2.5'	482.00	485.00
2	SOUTH CORNER LOT 1	5'X10'	485.50	0.5'	2.5'	483.00	486.00
3	NORTH CORNER LOT 2	5'X10'	502.20	0.5'	2.5'	499.00	503.00
4	SOUTH CORNER LOT 2	5'X10'	498.50	0.5'	2.5'	499.00	499.00

**PERMIT INFORMATION CHART**

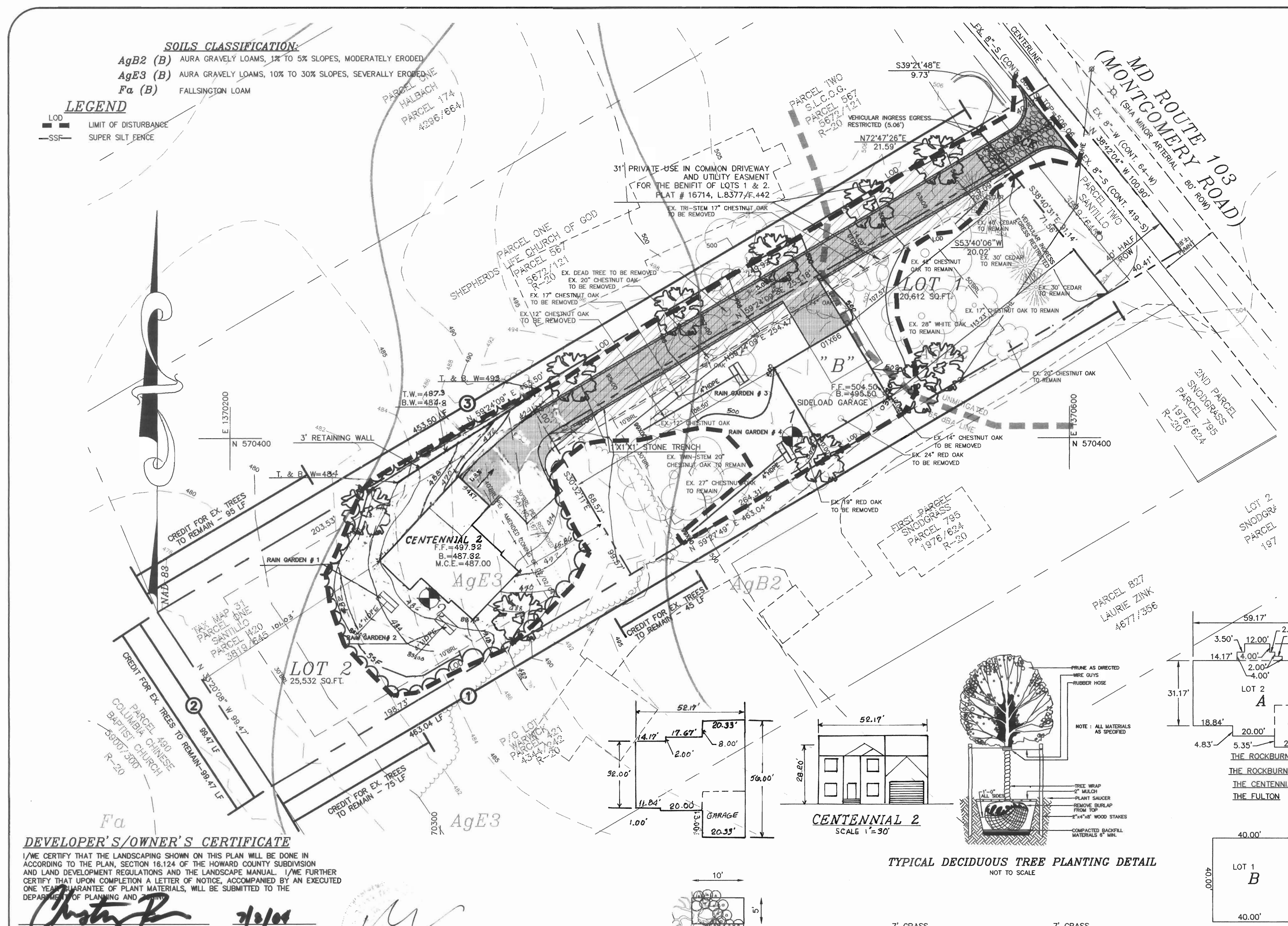
SUBDIVISION NAME	SECTION/AREA	LOT/PARCEL #
SANTILLO PROPERTY	N/A	PARCEL 420
PLAT # OR L/I/F BLOCK #	TAX MAP	ELEC. DIST.
16714 14	31	FIRST
ZONE	R-20	CENSUS TRACT
		6011.02
WATER CODE	G-01	SEWER CODE
		1257025

PROPOSED IMPROVEMENTS:  
 CONSTRUCT HOUSE, ASSOCIATED GRADING, AND SEDIMENT CONTROL

**ADDRESS CHART**

LOT/PARCEL NO.	STREET ADDRESS
LOT 1	5005 MONTGOMERY ROAD
LOT 2	5002 MONTGOMERY ROAD

**OWNER**  
 HARMONY BUILDERS  
 4228 COLUMBIA RD.  
 ELICOTT CITY, MARYLAND 21042



**DEVELOPER'S/OWNER'S CERTIFICATE**

I/WE CERTIFY THAT THE LANDSCAPING SHOWN ON THIS PLAN WILL BE DONE IN ACCORDANCE WITH THE PLAN, SECTION 16.124 OF THE HOWARD COUNTY SUBDIVISION AND LAND DEVELOPMENT REGULATIONS AND THE LANDSCAPE MANUAL. I/WE FURTHER CERTIFY THAT UPON COMPLETION A LETTER OF NOTICE, ACCOMPANIED BY AN EXECUTED ONE YEAR WARRANTY OF PLANT MATERIALS, WILL BE SUBMITTED TO THE DEPARTMENT OF PLANNING AND ZONING.

Signature: *Christy R.* DATE: 7/10/04

**DEVELOPER'S CERTIFICATE**

I CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE NATURAL RESOURCE CONSERVATION SERVICE.

Signature: *Christy R.* DATE: 7/10/04

**ENGINEER'S CERTIFICATE**

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 NATURAL RESOURCE CONSERVATION SERVICE.

Signature: *R. JACOB HIKMAT* DATE: 7/16/04

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

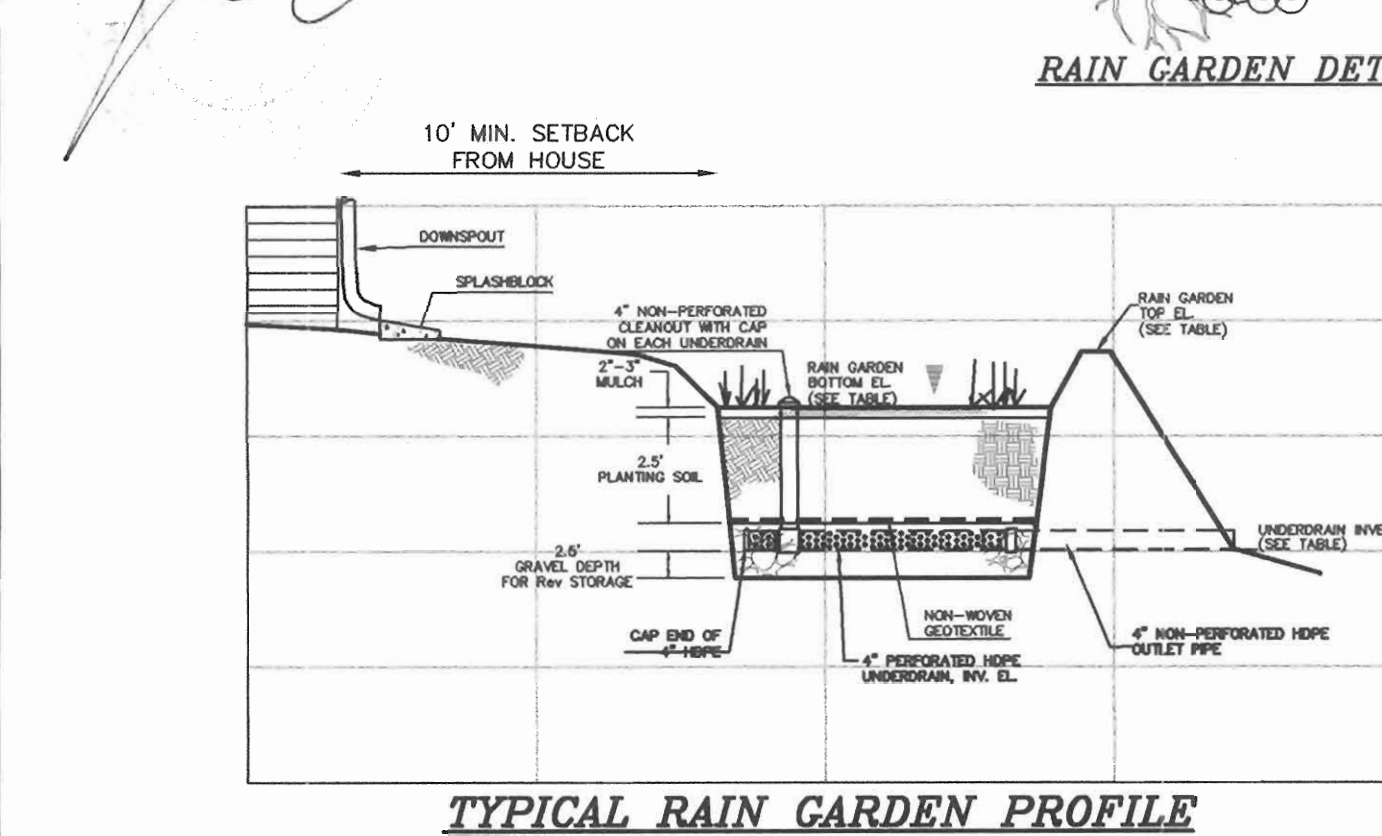
Signature: *Jim Mayers* DATE: 7/15/04

Signature: *John V. Robertson* DATE: 7/15/04

Signature: *Chris...* DATE: 7/20/04

Signature: *...* DATE: 7/21/04

Signature: *...* DATE: 7/22/04



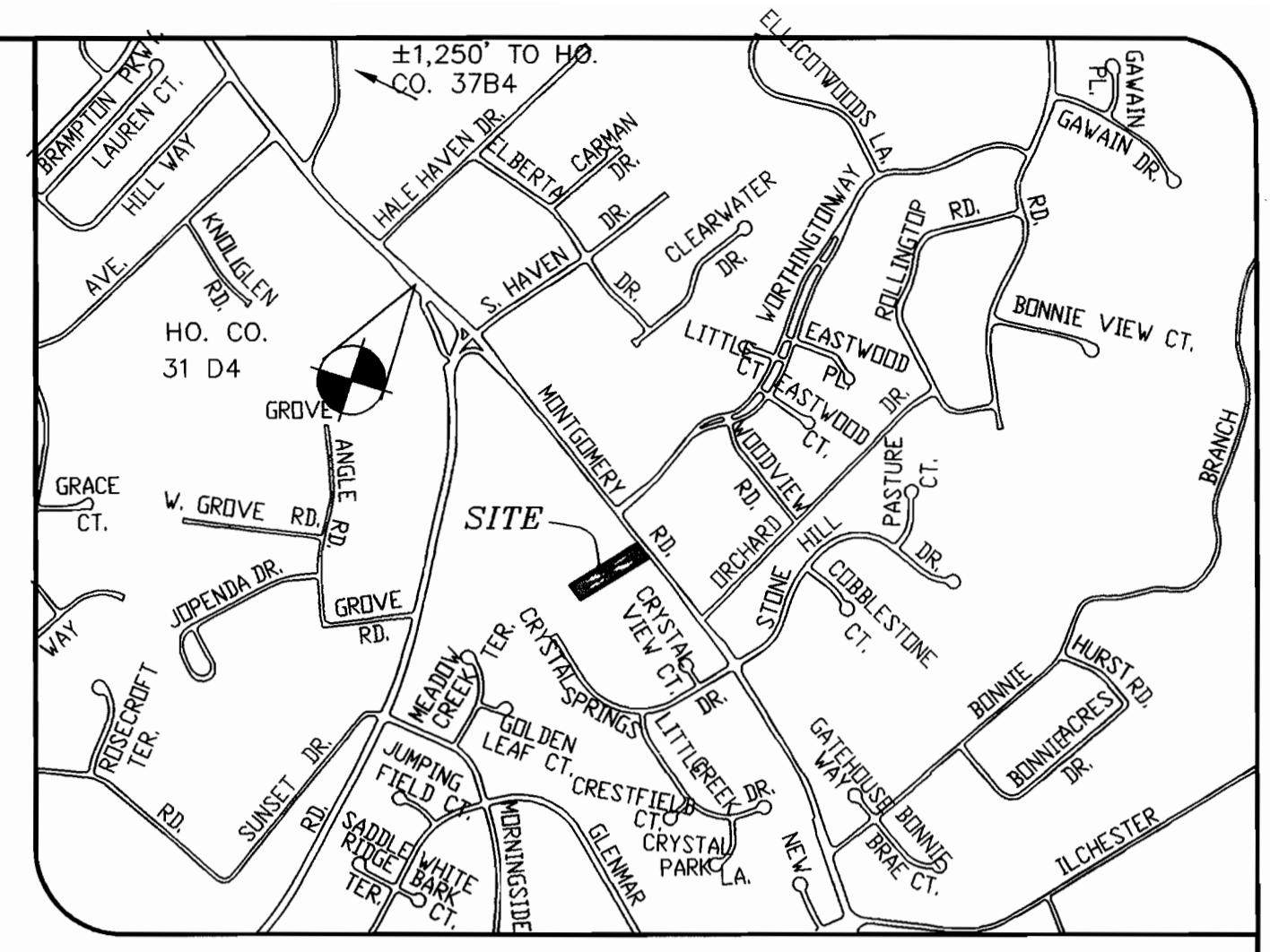
**SCHEDULE A : PERIMETER LANDSCAPED EDGE**

CATEGORY	ADJACENT TO PERIMETER PROPERTIES	TOTAL		
LANDSCAPE TYPE	A (PERIMETER 1)	A (PERIMETER 2)	A (PERIMETER 3)	TOTAL
LINEAR FEET OF PERIMETER	463.04 LF	99.47 LF	453.50 LF	
CREDIT FOR EXISTING VEGETATION (YES, NO, LINEAR FEET)	YES, CREDIT IS BEING TAKEN FOR 120 LF OF LANDSCAPE BUFFER	YES, CREDIT IS BEING TAKEN FOR 99.47 LF OF LANDSCAPE BUFFER	YES, CREDIT IS BEING TAKEN FOR 98 LF OF LANDSCAPE BUFFER	
NUMBER OF PLANTS REQUIRED	6 SHADE TREES 0 EVERGREEN TREES 0 SHRUBS	0 SHADE TREES 0 EVERGREEN TREES 0 SHRUBS	6 SHADE TREES 0 EVERGREEN TREES 0 SHRUBS	12 SHADE TREES 0 EVERGREEN TREES 0 SHRUBS
CREDIT FOR EXISTING VEGETATION	2 SHADE TREES * 0 EVERGREEN TREES	N/A	N/A	2 SHADE TREES 0 EVERGREEN TREES
NUMBER OF PLANTS PROVIDED	4 SHADE TREES 0 EVERGREEN TREES 0 SHRUBS	0 SHADE TREES 0 EVERGREEN TREES 0 SHRUBS	6 SHADE TREES 0 EVERGREEN TREES 0 SHRUBS	10 SHADE TREES 0 EVERGREEN TREES 0 SHRUBS
OTHER TREES (2:1 SUBSTITUTION) / SHRUBS (10:1 SUBSTITUTION)				

\* CREDIT ALONG PERIMETER 1 FOR ONE (1) EX. 27' CHESTNUT OAK AND ONE (1) EX. 20' CHESTNUT OAK.

**SOILS CLASSIFICATION:**  
 AgB2 (B) AURA GRAVELLY LOAMS, 1% TO 5% SLOPES, MODERATELY ERODED  
 AgE3 (B) AURA GRAVELLY LOAMS, 10% TO 30% SLOPES, SEVERELY ERODED  
 Fa (B) FALLSINGTON LOAM

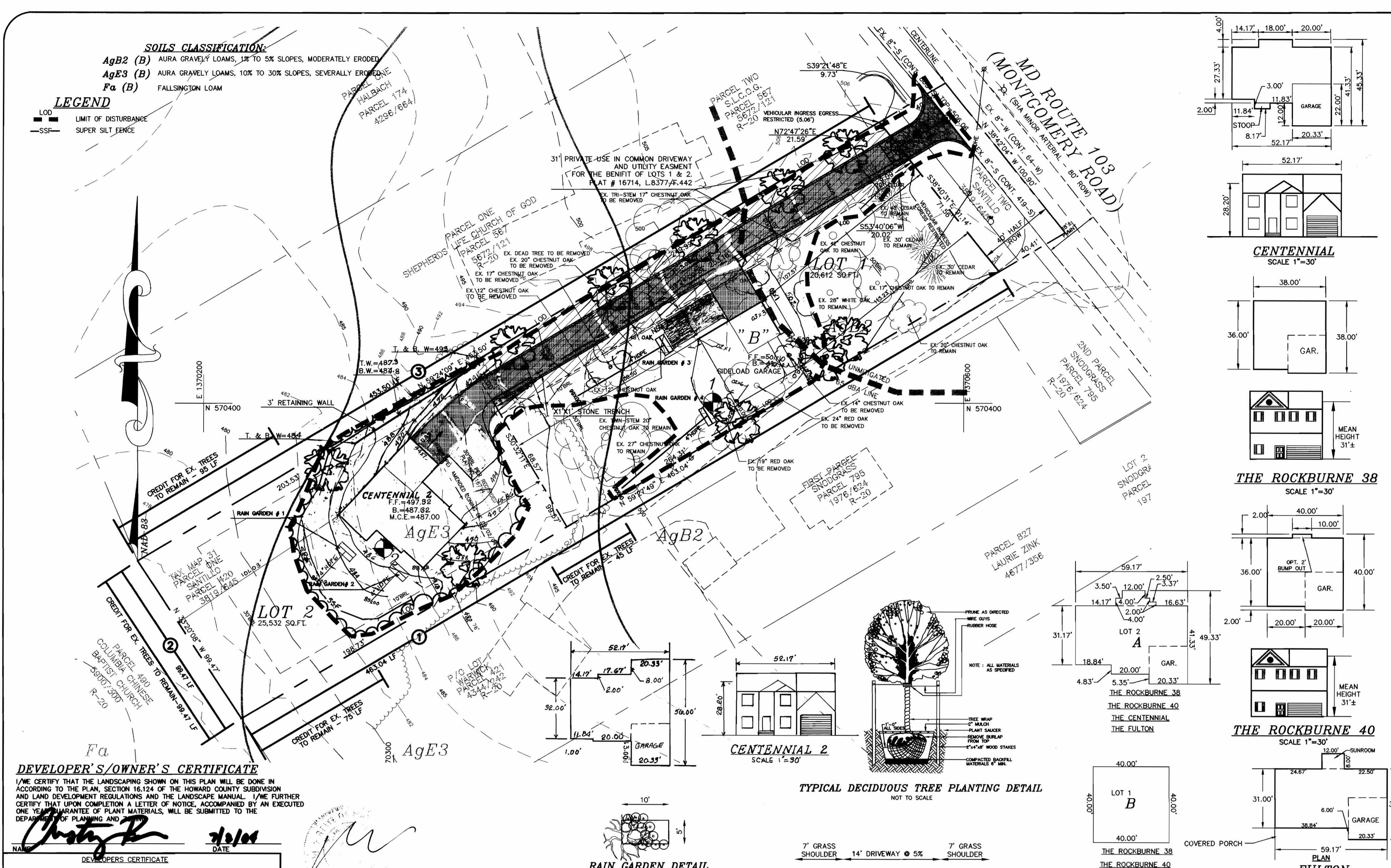
**LEGEND**  
 LOD LIMIT OF DISTURBANCE  
 S-SF SUPER SILT FENCE



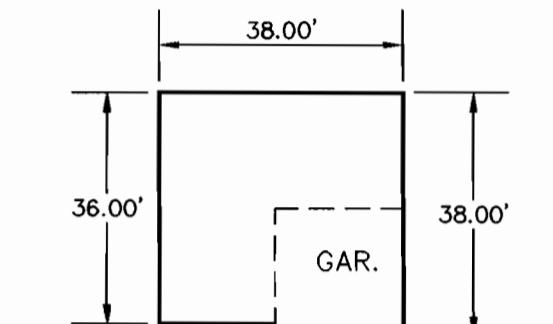
**VICINITY MAP**  
SCALE 1"=1000'

**GENERAL NOTES**

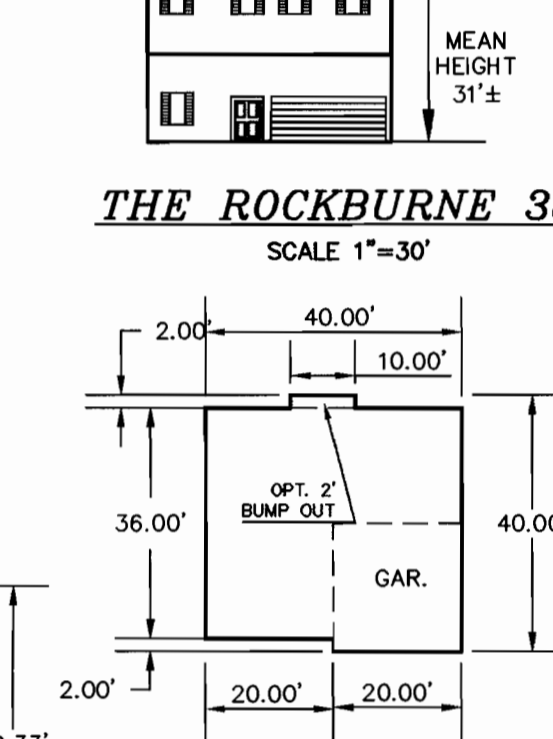
- THE SUBJECT PROPERTY IS ZONED R-20 PER THE 02/02/2004 COMPREHENSIVE ZONING PLAN.
- SITE ANALYSIS DATA:  
 TAX MAP: 31, PARCEL: 420, GRID: 14  
 ELECTION DISTRICT: FIRST AND SECOND.  
 ZONING: R-20  
 TOTAL AREA: 1.06 AC.±  
 PROPOSED USE: SINGLE FAMILY DETACHED.  
 DPZ FILES: F-04-060
- TOPOGRAPHY SHOWN HEREON IS BASED ON A FIELD RUN SURVEY BY MILDENBERG, BOENDER & ASSOC., INC. ON FEBRUARY 2003.
- COORDINATES BASED ON NAD '83 (HORIZONTAL) AND NGVD '29 (VERTICAL) MARYLAND COORDINATE SYSTEM AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS NO. 31A3, 31D4, STA. NO. 31A3 N 573,237.877 E 1,368,237.822 ELEV. 487.641 (CONCRETE MONUMENT) STA. NO. 31D4 N 573,769.859 E 1,369,608.281 ELEV. 488.179 (CONCRETE MONUMENT)
- THIS SUBDIVISION IS IN THE METROPOLITAN DISTRICT. PUBLIC WATER AND SEWER WILL BE UTILIZED. LOTS 1 AND 2 WILL BE SERVED UNDER CONTRACT # 419-S & 64-W.
- CONTRACTOR TO VERIFY THE LOCATION OF ALL EXISTING UTILITIES ON SITE PRIOR TO COMMENCING CONSTRUCTION.
- THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/CONSTRUCTION INSPECTIONS DIVISION AT (410) 313-1880 AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE START OF WORK.
- THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE (5) DAYS PRIOR TO ANY EXCAVATION WORK:  
 MISS UTILITY 1-800-257-7777  
 VERIZON TELEPHONE COMPANY 1-800-257-7777  
 HOWARD COUNTY BUREAU OF UTILITIES (410) 725-9976  
 AT&T CABLE LOCATION DIVISION (410) 313-4800  
 ATL TIME GAS & ELECTRIC (410) 393-3533  
 STATE HIGHWAY ADMINISTRATION (410) 685-0123  
 HOWARD COUNTY DEPT. OF PUBLIC WORKS/CONSTRUCTION INSPECTIONS DIVISION (410) 313-1880
- 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.
- ALL AREAS ARE MORE OR LESS.
- NO BURIAL GROUNDS OR CEMETERIES EXIST ON-SITE.
- DO NOT EXIST ON SITE.
- NO HISTORIC DISTRICTS ARE ADJACENT TO THIS SITE. SITE IS NOT ADJACENT TO A DESIGNATED SCENIC ROAD.
- NO WETLANDS EXIST ON SITE PER FIELD INVESTIGATION BY MILDENBERG BOENDER AND ASSOCIATES ON OR ABOUT OCT. 2003.
- THIS SUBDIVISION IS EXEMPT FROM FOREST CONSERVATION PLAN REQUIREMENTS IN ACCORDANCE WITH SECTION 16.1202 (b) (1) (vii), OF THE HOWARD COUNTY ZONING REGULATIONS AND LAND DEVELOPMENT REGULATIONS FOR A MINOR SUBDIVISION THAT CREATES AN ADDITIONAL LOT AND HAS NO FURTHER SUBDIVISION POTENTIAL. ADDRESS UNDER F-04-060.
- THE OPEN SPACE REQUIREMENT HAS BEEN SATISFIED BY PAYMENT OF A FEE-IN-LIEU IN THE AMOUNT OF \$1,500.00 FOR LOT 2 UNDER F-04-060.
- DRIVEWAYS SHALL BE PROVIDED PRIOR TO ISSUANCE OF A USE AND OCCUPANCY PERMIT TO ENSURE SAFE ACCESS FOR FIRE AND EMERGENCY VEHICLES PER THE FOLLOWING MINIMUM REQUIREMENTS:  
 A) WIDTH - 12 FEET (14 FEET SERVING MORE THAN ONE RESIDENCE)  
 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 OF 45-FOOT TURNING RADIUS.  
 D) STRUCTURES (CULVERT/BRIDGES) - CAPABLE OF SUPPORTING 25 GROSS TONS (H25 LOADING).  
 E) DRAINAGE ELEMENTS - CAPABLE OF SAFELY PASSING 100-YEAR FLOOD WITH NO MORE THAN 1 FOOT DEPTH OVER DRIVEWAY SURFACE.  
 F) STRUCTURE CLEARANCES - MINIMUM 12 FEET.  
 G) MAINTENANCE - SUFFICIENT TO ENSURE ALL WEATHER USE.
- FOR FLAG OR PIPESTEM LOTS, REFUSE COLLECTION, SNOW REMOVAL AND ROAD MAINTENANCE ARE PROVIDED TO THE JUNCTION OF THE FLAG OR PIPESTEM AND ROAD RIGHT-OF-WAY LINE AND NOT ONTO THE PIPESTEM LOT DRIVEWAY.
- PUBLIC WATER AND SEWER ALLOCATION WILL BE GRANTED AT THE TIME OF ISSUANCE OF THE BUILDING PERMIT IF CAPACITY IS AVAILABLE AT THAT TIME.
- THE OWNER, TENANT, 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.
- THIS PLAN IS SUBJECT TO THE AMENDED 5TH EDITION OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS PER COUNCIL BILL #45-2003 AND THE ZONING REGULATIONS AS AMENDED UNDER COUNCIL BILL #75-2003. DEVELOPMENT OR CONSTRUCTION ON THESE LOTS MUST COMPLY WITH SETBACK AND BUFFER REGULATIONS IN EFFECT AT THE TIME SUBMISSION OF THE SITE DEVELOPMENT PLAN, WAIVER PETITION APPLICATION OR BUILDING/GRADING PERMIT.
- THE 65 dBA NOISE CONTOUR LINE DRAWN ON THIS PLAN IS ADVISORY AS REQUIRED BY THE HOWARD COUNTY DESIGN MANUAL, CHAPTER 5, REVISED FEBRUARY, 1992 AND CANNOT BE CONSIDERED TO EXACTLY LOCATE THE 65 dBA NOISE EXPOSURE. THE 65 dBA NOISE LINE WAS ESTABLISHED BY HOWARD COUNTY TO ALERT DEVELOPERS, BUILDERS AND FUTURE RESIDENTS THAT AREAS BEYOND THIS THRESHOLD MAY EXCEED GENERALLY ACCEPTED NOISE LEVELS ESTABLISHED BY THE U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT.
- THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY DESIGN MANUAL. FINANCIAL SURETY FOR THE 10 REQUIRED SHADE TREES IN THE AMOUNT OF \$3,000.00 IS PART OF THE GRADING PERMIT APPLICATION FOR THESE LOTS.
- SOILS DATA BASED ON HOWARD COUNTY SOIL SURVEY DATED JULY 1968, SHEET 20.
- AT THE TIME OF INSTALLMENT, ALL SHRUBS AND OTHER PLANTINGS HERETHWITH LISTED AND APPROVED FOR THIS SITE, SHALL BE OF THE PROPER HEIGHT REQUIREMENTS 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 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 APPLICABLE PLANS AND CERTIFICATES.
- NO CLEARING OF EXISTING VEGETATION IS PERMITTED WITHIN THE LANDSCAPED EDGE; HOWEVER, LANDSCAPE MAINTENANCE IS AUTHORIZED.
- SHOULD ANY TREE DESIGNATED FOR PRESERVATION, FOR WHICH LANDSCAPING CREDIT IS GIVEN, DIE OR BE REQUIRED TO BE REMOVED, THE OWNER SHALL BE REQUIRED TO REPLACE THE TREE WITH THE EQUIVALENT SPECIES OR WITH A TREE WHICH WILL OBTAIN THE SAME HEIGHT, SPREAD, AND GROWTH CHARACTERISTICS. THE REPLACEMENT TREE MUST BE A MINIMUM OF 2 1/2 TO 3 INCHES IN CALIPER AND INSTALLED AS REQUIRED IN THE LANDSCAPE MANUAL.
- SHIM IS PROVIDED VIA THE USE OF RAIN GARDENS AND NON-ROOF-TOP DISCONNECTION CREDIT.
- DRIVEWAY INTERSECTION FOR LOTS 1 AND 2 SHALL MEET HOWARD COUNTY STANDARD DETAIL R6.06.
- NO CULVERT REQUIRED FOR DRIVEWAY CROSSING LOT 1, DRAINAGE AREA IS LESS THAN 1.00 ACRE.



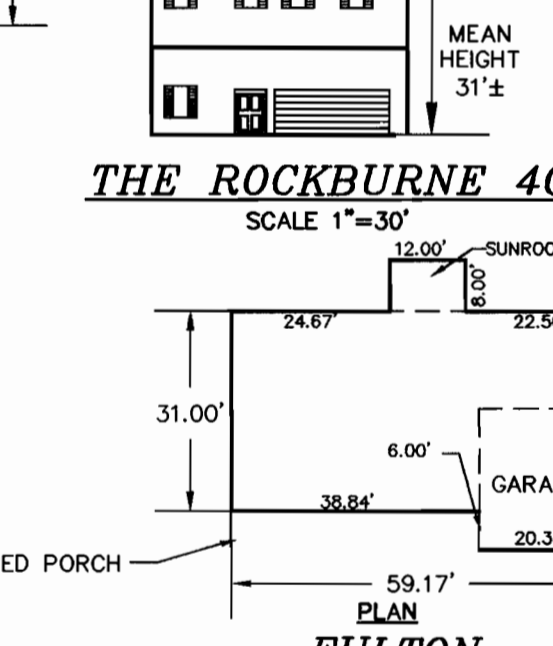
**CENTENNIAL**  
SCALE 1"=30'



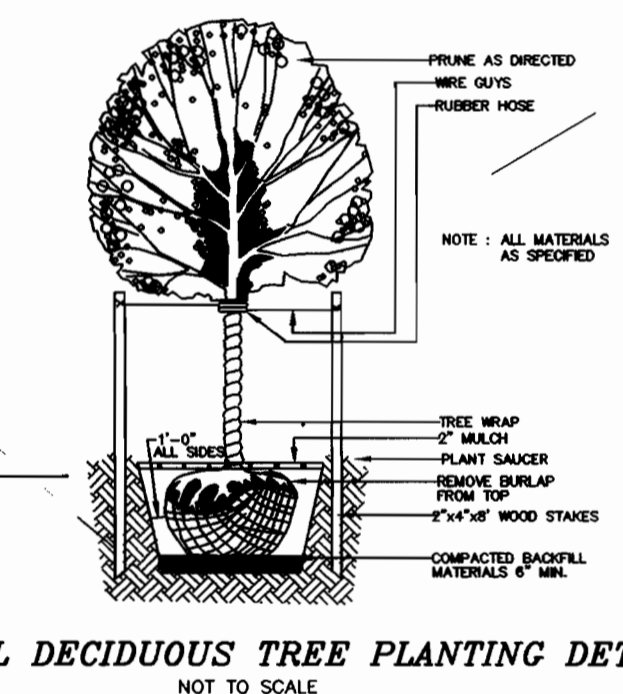
**THE ROCKBURNE 38**  
SCALE 1"=30'



**THE ROCKBURNE 40**  
SCALE 1"=30'



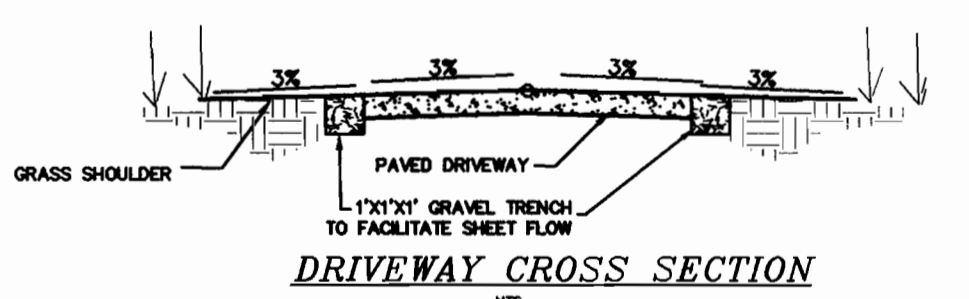
**GENERIC BOX**



**TYPICAL DECIDUOUS TREE PLANTING DETAIL**  
NOT TO SCALE



**RAIN GARDEN DETAIL**



**DRIVEWAY CROSS SECTION**  
N/A

**PLANT LIST**

QUANTITY	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE
1		PLATANUS OCCIDENTALIS	AMERICAN SYCAMORE	2-1/2" - 3" CAL.
1		ILEX GLABRA	INK BERRY	2' - 3' HT.
6		LOBELIA SIPHILITICA	GREAT BLUE LOBELIA	1 GAL. CONTAINER
4		ONOCLEA SENSIBILIS	SENSITIVE FERN	1 GAL. CONTAINER
3		ASTER NOVAE-ANGLIAE	NEW ENGLAND ASTER	1 GAL. CONTAINER

TOTAL: 15 PERENNIALS, 1 SHRUB, 1 TREE (PER EACH RAIN GARDEN)

**PERMIT INFORMATION CHART**

SUBDIVISION NAME	SECTION/AREA	LOT/PARCEL #			
SANTILLO PROPERTY	N/A	PARCEL 420			
PLAT # OR L/F	BLOCK #	ZONE	TAX MAP	ELEC. DIST.	CENSUS TRACT
16714	14	R-20	31	FIRST	6011.02
WATER CODE	SEWER CODE				
G-01	1257025				

PROPOSED IMPROVEMENTS:  
CONSTRUCT HOUSE, ASSOCIATED GRADING, AND SEDIMENT CONTROL.

**ADDRESS CHART**

LOT/PARCEL NO.	STREET ADDRESS
LOT 1	5006 MONTGOMERY ROAD
LOT 2	5002 MONTGOMERY ROAD

**PLANTING SCHEDULE**

QUANTITY: 10 SHADE TREES  
 TOTAL: 10 SHADE TREES

RAIN GARDEN	LOCATION	DIMENSIONS	BOTTOM OF RAIN GARDEN ELEVATION	PONDING DEPTH	DEPTH OF GRAVEL	UNDERDRAIN INVERT	WEIR ELEVATION
1	NORTH CORNER LOT 1	5'x10'	484.50	0.5'	2.5'	482.00	485.00
2	SOUTH CORNER LOT 1	5'x10'	485.50	0.5'	2.5'	483.00	486.00
3	NORTH CORNER LOT 2	5'x10'	502.20	0.5'	2.5'	499.00	503.00
4	SOUTH CORNER LOT 2	5'x10'	498.50	0.5'	2.5'	499.00	499.00

**DEVELOPER'S/OWNER'S CERTIFICATE**  
 I/WE CERTIFY THAT THE LANDSCAPING SHOWN ON THIS PLAN WILL BE DONE IN ACCORDANCE WITH THE PLAN, SECTION 16.124 OF THE HOWARD COUNTY SUBDIVISION AND LAND DEVELOPMENT REGULATIONS AND THE LANDSCAPE MANUAL. I/WE FURTHER CERTIFY THAT UPON COMPLETION A LETTER OF NOTICE, ACCOMPANIED BY AN EXECUTED ONE YEAR WARRANTY OF PLANT MATERIALS, WILL BE SUBMITTED TO THE DEPARTMENT OF PLANNING AND ZONING.

Signature: *Chris R...* DATE: 7/15/04

**DEVELOPERS CERTIFICATE**  
 I CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF EROSION AND SEDIMENT BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE NATURAL RESOURCE CONSERVATION SERVICE.

Signature: *Chris R...* DATE: 7/15/04

**ENGINEER'S CERTIFICATE**  
 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 NATURAL RESOURCE CONSERVATION SERVICE.

Signature: *R. Jacob Hikmat* DATE: 7/18/04

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

Signature: *Jim Meyers* DATE: 7/15/04  
 Signature: *John R. Robertson* DATE: 7/15/04

APPROVED: DEPARTMENT OF PLANNING AND ZONING  
 Signature: *Mike...* DATE: 7/20/04  
 Signature: *Andy...* DATE: 7/21/04  
 Signature: *Paul...* DATE: 7/21/04

**SCHEDULE A: PERIMETER LANDSCAPED EDGE**

CATEGORY	ADJACENT TO PERIMETER PROPERTIES	TOTAL
LANDSCAPE TYPE	A (PERIMETER 1) 463.04 LF A (PERIMETER 2) 99.47 LF A (PERIMETER 3) 453.50 LF	
CREDIT FOR EXISTING VEGETATION (YES, NO, LINEAR FEET)	YES, CREDIT IS BEING TAKEN FOR 120 LF OF LANDSCAPE BUFFER YES, CREDIT IS BEING TAKEN FOR 99.47 LF OF LANDSCAPE BUFFER YES, CREDIT IS BEING TAKEN FOR 95 LF OF LANDSCAPE BUFFER	
NUMBER OF PLANTS REQUIRED	6 SHADE TREES 0 EVERGREEN TREES 0 SHRUBS	12 SHADE TREES 0 EVERGREEN TREES 0 SHRUBS
CREDIT FOR EXISTING VEGETATION	2 SHADE TREES * 0 EVERGREEN TREES	2 SHADE TREES 0 EVERGREEN TREES
NUMBER OF PLANTS PROVIDED	4 SHADE TREES 0 EVERGREEN TREES 0 SUBSTITUTION TREES 0 SHRUBS (10:1 SUBSTITUTION)	10 SHADE TREES 0 EVERGREEN TREES 0 SUBSTITUTION TREES 0 SHRUBS

\* CREDIT ALONG PERIMETER 1 FOR ONE (1) EX. 27" CHESTNUT OAK AND ONE (1) EX. 20" CHESTNUT OAK.

Project: 04-010  
 Date: MAY 2004  
 Illustration: engineering  
 Scale: SNA  
 Revision: approval  
 Scale: 1"=30'

REVISED GRADING ON LOT 1  
 REVISED GRADING LOT 2  
 ADD HOUSE MODEL CENTENNIAL 2  
 HOUSE TYPE LOT 2

DATE: 4/24/05  
 DATE: 11/17/04

DESCRIPTION: REVISIONS

**SANTILLO PROPERTY**  
 LOTS 1 AND 2  
 SINGLE FAMILY DETACHED  
 TAX MAP 31 - PARCEL 420  
 FIRST ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND  
**SITE DEVELOPMENT PLAN**

**MILDENBERG, BOENDER & ASSOC., INC.**  
 Engineers Planners Surveyors  
 5072 Dorsy Hill Drive, Suite 202, Ellicott City, Maryland 21042  
 (410) 997-0296 Bldg. (301) 621-6521 Wash. (410) 997-0296 Fax