

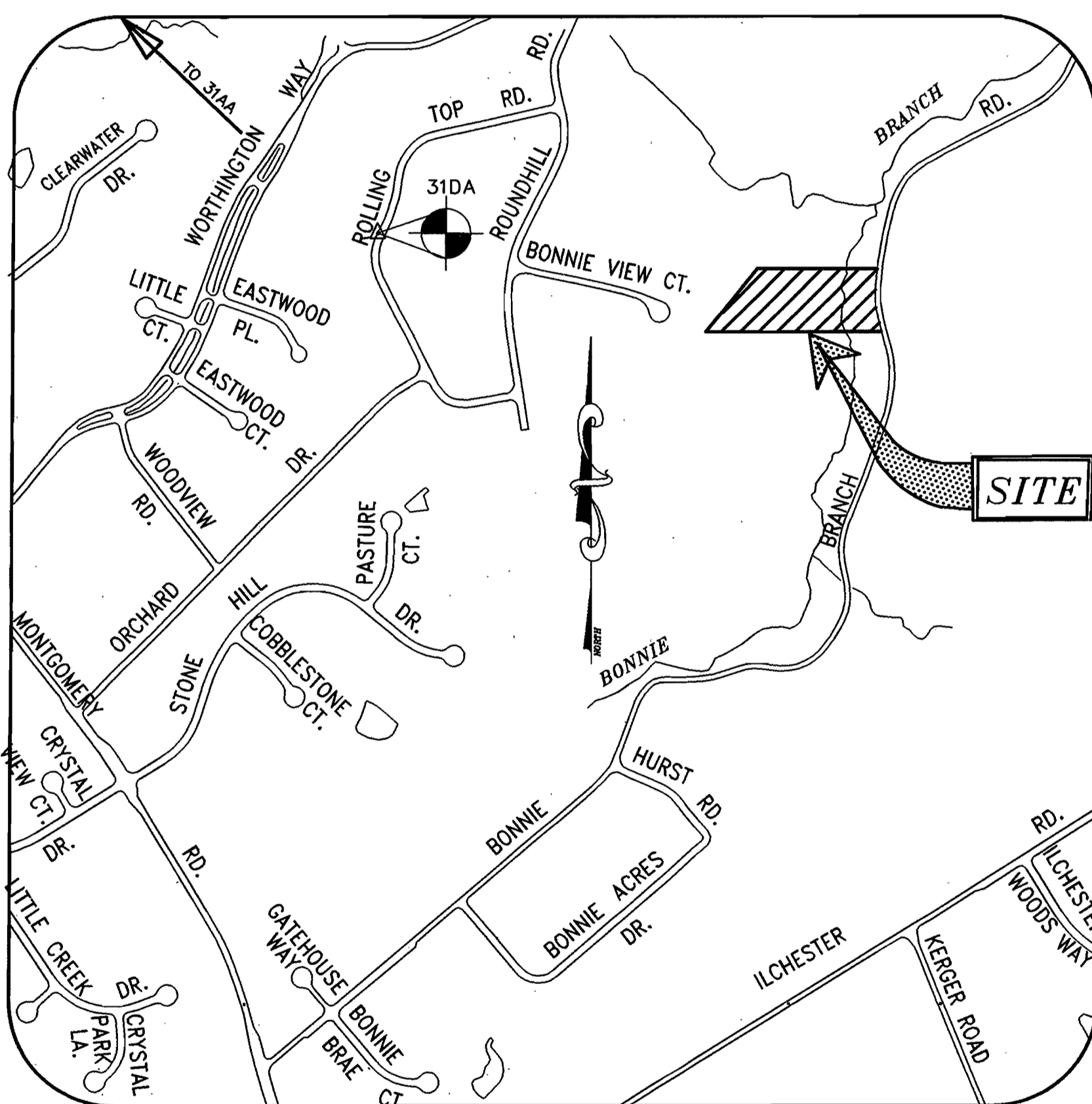
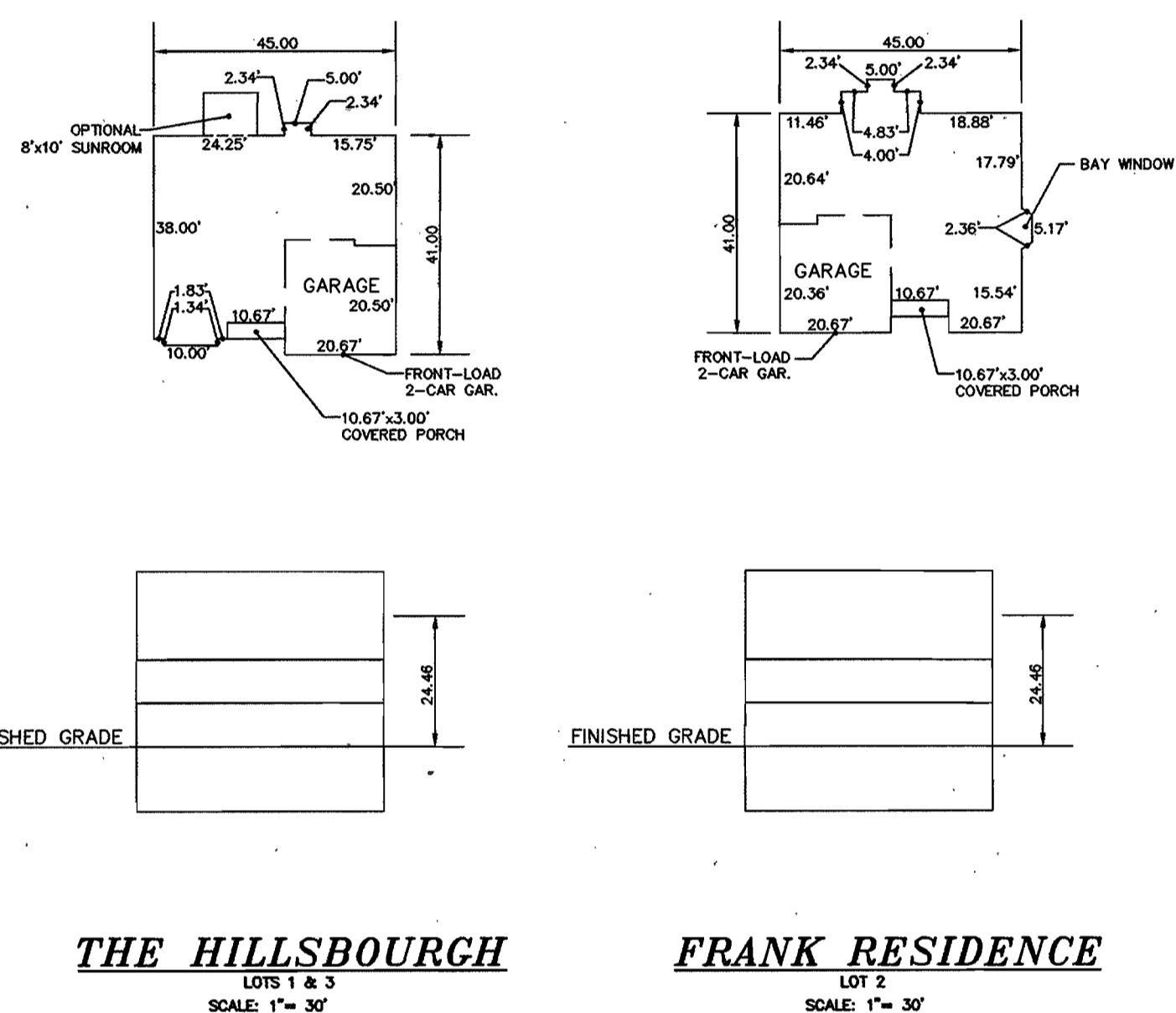
# SITE DEVELOPMENT PLAN FINCHAM PROPERTY

LOTS 1 THRU 3, OPEN SPACE LOT 4  
AND NON-BUILDABLE BULK PARCEL "A"

SECOND ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

### GENERAL NOTES:

- SITE DATA:  
ZONING: R-20.  
TAX MAP 31 PARCEL 286 GRID 9.  
DEED REFERENCE: 6863/313  
GROSS AREA: 3,007 ACRES ±  
MINIMUM LOT SIZE: 24,242 SQ. FT.  
NUMBER OF BUILDABLE LOTS: 3  
PREVIOUS DPZ FILE NUMBERS: F-03-161 WP-04-144
- THIS BOUNDARY IS BASED ON A FIELD MONUMENTED BOUNDARY SURVEY DONE BY MILDENBERG BOENDER AND ASSOCIATES ON OR ABOUT FEB. 2003.
- THE COORDINATES SHOWN HEREON ARE BASED ON NAD '83 MARYLAND COORDINATE SYSTEM AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS 421A AND 421B  
STATION NO. 31AA N 573,998.5709 ELEVATION 500.157  
E 1,369,934.229  
STATION NO. 31DA N 571,982.6701 ELEVATION 482.35  
E 1,372,145.075
- TOPOGRAPHIC DATA SHOWN HEREON IS BASED ON A FIELD RUN TOPOGRAPHIC SURVEY CONDUCTED IN FEB. 2003 BY MILDENBERG, BOENDER & ASSOCIATES, INC.
- THIS SUBDIVISION IS SUBJECT TO THE AMENDED 5TH EDITION OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS COUNCIL BILL 45-2003 AND THE ZONING REGULATIONS AS AMENDED UNDER COUNCIL BILL # 75-2003.
- PROPERTY IS LOCATED WITHIN THE METROPOLITAN DISTRICT. PUBLIC WATER AND SEWER WILL BE UTILIZED.
- DRIVEWAYS SHALL BE PROVIDED PRIOR TO ISSUANCE OF A USE AND OCCUPANCY PERMIT FOR A NEW DWELLING 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 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 TO THE PIPESTEM LOT DRIVEWAY.
- WETLAND & FOREST STAND DELINEATIONS PREPARED BY MILDENBERG, BOENDER, & ASSOCIATES, INC. ON OR ABOUT MARCH 2003, F-03-161.
- SOILS DATA BASED ON HOWARD COUNTY SOIL SURVEY DATED JULY 1968, SHEET 21.
- THE FOREST CONSERVATION REQUIREMENTS PER SECTION 16.1202 OF THE HOWARD COUNTY CODE FOR FOREST CONSERVATION BY REFORESTATION OF 1.00 ACRE AND PAYMENT OF FEE-IN-LIEU OF REFORESTATION FOR 0.11 ACRES (4,791.6 SQ. FT.) IN THE AMOUNT \$2,395.80. FINANCIAL SURETY FOR THE ON-SITE REFORESTATION OF 1.00 ACRES (43,560 SQ. FT.) HAS BEEN POSTED AS PART OF THE DEVELOPERS AGREEMENT IN THE AMOUNT OF \$21,780.00 UNDER F-03-161.
- LANDSCAPING FOR LOTS 1 THRU 4 IS PROVIDED IN ACCORDANCE WITH SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL. FINANCIAL SURETY FOR THE REQUIRED LANDSCAPING FOR 3 SHADE TREES ON LOT 1 IN THE AMOUNT OF \$500.00 AND 3 SHADE TREES ON LOT 3 IN THE AMOUNT OF \$1,800.00.
- AT THE TIME OF INSTALLMENT, ALL SHRUBS AND OTHER PLANTING HEREWITH 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 PLANTING 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.
- SWM REQUIREMENTS HAVE BEEN SATISFIED PER THE 2000 MDE SWM MANUAL. SHEET FLOW TO BUFFER CREDIT HAS BEEN USED, F-03-161.
- NO CLEARING, GRADING OR CONSTRUCTION IS PERMITTED WITHIN THE WETLANDS, STREAMS OR THEIR REQUIRED BUFFERS AND FOREST CONSERVATION EASEMENTS.
- IN ACCORDANCE WITH SECTION 128 OF THE HOWARD COUNTY ZONING REGULATIONS, BAY WINDOWS OR CHIMNEYS NOT MORE THAN 10 FEET IN WIDTH MAY PROJECT NOT MORE THAN 4 FEET INTO ANY SETBACKS, PORCHES OR DECKS MAY PROJECT NOT MORE THAN 3 FEET INTO THE FRONT OR REAR YARD SET BACKS. EXTERIOR BASEMENT AREAS MAY NOT ENCRoACH INTO ANY BRL.
- OPEN SPACE LOT 4 IS DEDICATED TO THE HOWARD COUNTY DEPARTMENT OF RECREATION AND PARKS.
- PUBLIC WATER AND SEWER WILL BE PROVIDED UNDER 14-3823-D.
- WAIVER PETITION (WP-04-144) FOR SECTIONS 16.120(b)(4)(iii) AND SECTION 16.120(b)(6)(iv) WAS GRANTED ON MAY 26, 2004 SUBJECT TO THE FOLLOWING:  
A. THE MAXIMUM SETBACK REDUCTION IS 18' (FROM 35') AS SHOWN ON THE SITE DEVELOPMENT PLAN SUBMITTED MAY 26, 2004.  
B. FOR LOT 1, ANY FUTURE ADDITIONS OR EXTENSIONS SHALL COMPLY WITH THE REDUCED 35' SETBACK TO 18' AS INDICATED ON THE WAIVER PETITION EXHIBIT. A DECK MAY PROJECT 10' BEYOND THE REDUCED SETBACK. PER SECTION 16.120(b)(4)(iii)(c).



VICINITY MAP  
SCALE: 1"=1000'

INDEX OF DRAWINGS	
NO.	DESCRIPTION
1	COVER SHEET
2	SITE DEVELOPMENT AND LANDSCAPE PLAN
3	SEDIMENT CONTROL NOTES AND DETAILS

PERMIT INFORMATION CHART			
SUBDIVISION NAME FINCHAM PROPERTY	SECTION/AREA N/A	LOT/PARCEL # PARCEL 286, LOTS 1-3	
PLAT # OR L/F 16616-16617	BLOCK # 9	TAX MAP R-20	ELEC. DIST. 31
			CENSUS TRACT 602308
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	7911 TWIN STREAM DR.
LOT 2	7907 TWIN STREAM DR.
LOT 3	7903 TWIN STREAM DR.

**BUILDER**  
HAMILTON REED  
8000 MAIN STREET  
ELLCOTT CITY, MD 21043  
410-480-9105

**OWNER**  
REUER ENTERPRISES, LLC.  
R/E GROUP, Inc.  
8000 MAIN STREET  
ELLCOTT CITY, MD 21043  
410-480-9105

**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 OF THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE NATURAL RESOURCE CONSERVATION SERVICE.

Signature of Developer: *John E. Long* DATE: 6/11/04  
Printed Name of Developer: JOHN E. LONG

**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.

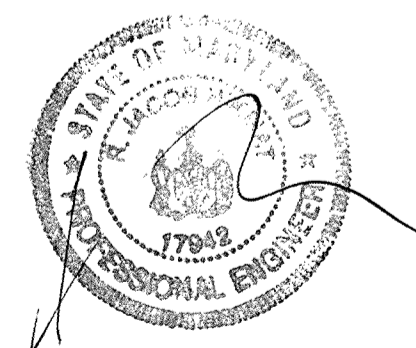
Signature of Engineer: *R. JACOB HIKMAT* DATE: 6/11/04  
Printed Name of Engineer: R. JACOB HIKMAT

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

Signature: *Jim Meyer* DATE: 6-22-04  
USDA - NATURAL RESOURCE CONSERVATION SERVICE

Signature: *John E. Robertson* DATE: 6/22/04  
HOWARD SOIL CONSERVATION DISTRICT

APPROVED: DEPARTMENT OF PLANNING AND ZONING  
Signature: *William J. ...* DATE: 6/22/04  
CHIEF, DEVELOPMENT ENGINEERING DIVISION MAJ  
Signature: *John E. ...* DATE: 7/6/04  
CHIEF, DIVISION OF LAND DEVELOPMENT  
Signature: *Deborah K. ...* DATE: 7/6/04  
DIRECTOR



Project	date	approval
02-104	JUNE 04	ENG
illustration	engineering	SA
MAJ	ENG	SA
scale	1"=30'	

no.	description	date

FINCHAM PROPERTY - SINGLE FAMILY DETACHED  
LOTS 1-3, OPEN SPACE LOT 4 & NON-BUILDABLE BULK PARCEL A  
TAX MAP 31 PARCEL 286  
HOWARD COUNTY, MARYLAND  
2ND ELECTION DISTRICT  
COVER SHEET

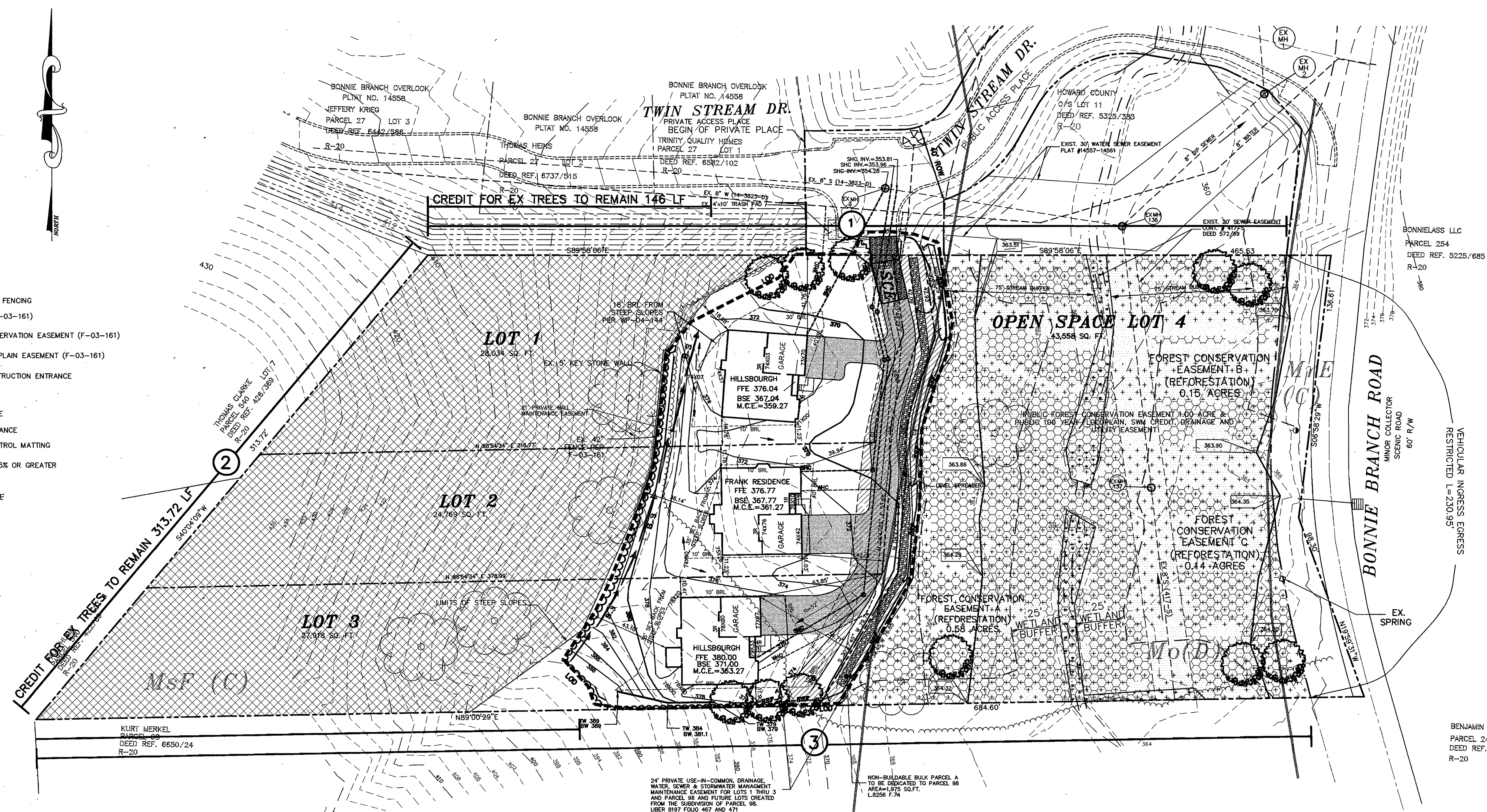
**MILDENBERG, BOENDER & ASSOC., INC.**  
Engineers Planners Surveyors  
5072 Dorsy Hall Drive, Suite 202, Ellicott City, Maryland 21042  
(410) 997-0296 Fax: (301) 621-5532, Wash. (410) 997-0298 Fax.



no.	description	revisions	date

**FINCHAM PROPERTY**  
 LOTS 1-3, OPEN SPACE LOT 4 & NON-BUILDABLE BULK PARCEL A  
 2ND ELECTION DISTRICT TAX MAP 31 PARCEL 286  
 HOWARD COUNTY, MARYLAND  
**SITE DEVELOPMENT AND LANDSCAPE PLAN**

**MILDENBERG, BOENDER & ASSOC., INC.**  
 Engineers Planners Surveyors  
 5072 Dorsey Hall Drive, Suite 202, Ellicott City, Maryland, 21042  
 (410) 997-0298 Fax: (301) 621-5521



- LEGEND**
- TPF TREE PROTECTIVE FENCING
  - EX. WETLANDS (F-03-161)
  - EX. FOREST CONSERVATION EASEMENT (F-03-161)
  - 100-YEAR FLOODPLAIN EASEMENT (F-03-161)
  - SCE STABILIZED CONSTRUCTION ENTRANCE
  - SF SILT FENCE
  - SSF SUPER SILT FENCE
  - LD LIMIT OF DISTURBANCE
  - EX. EROSION CONTROL MATTING
  - STEEP SLOPES, 25% OR GREATER
  - SHC CLEANOUT
  - D-3 DIVERSION DIKE

**CURVE DATA**

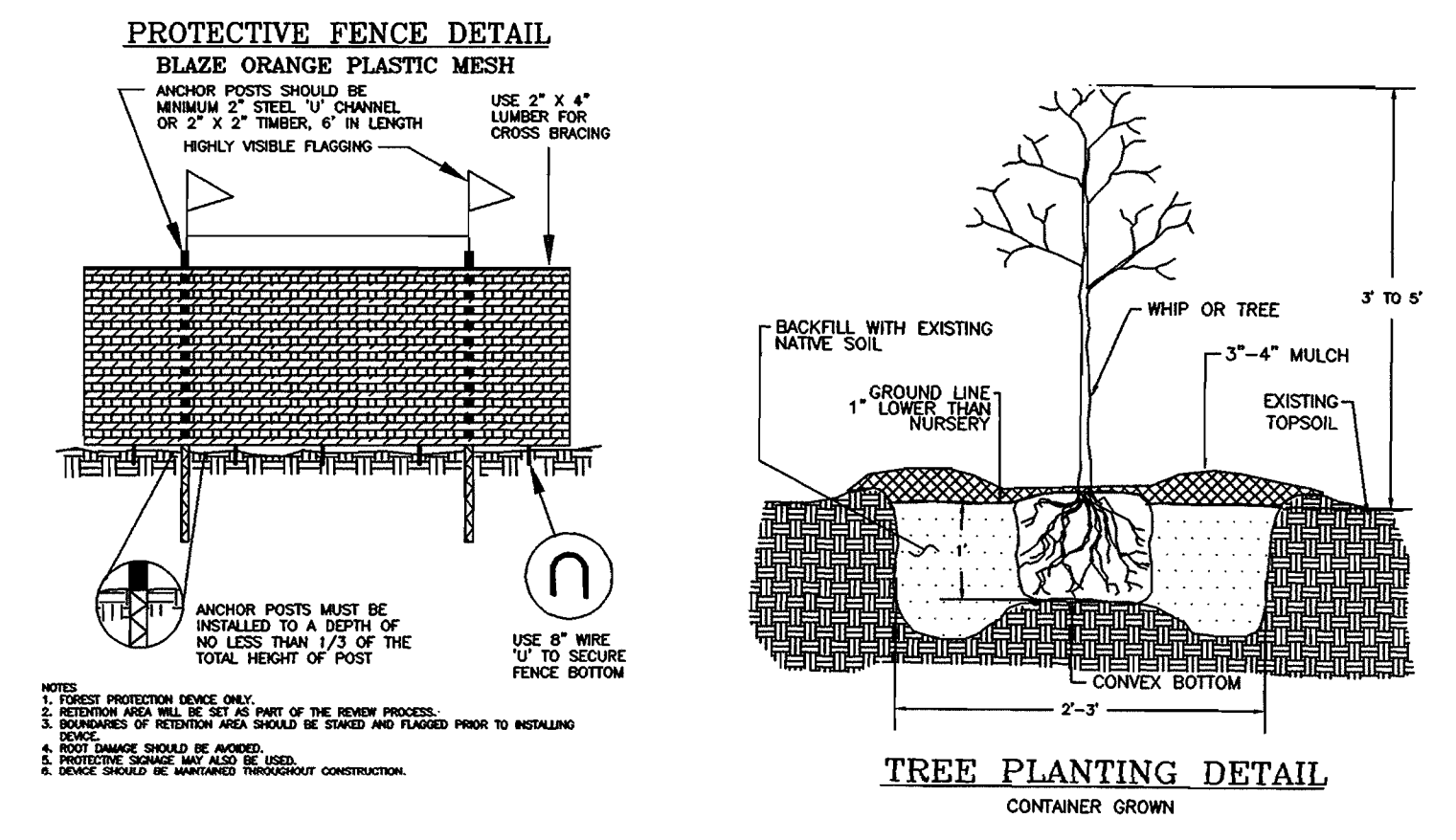
CURVE NO.	LENGTH	RADIUS	DELTA	TANGENT	CHORD	CHORD BEARING
C1	34.45	99.00	19°56'26"	17.40	34.28	S12°08'01"W
C2	46.02	91.00	28°58'24"	23.51	45.53	S07°43'52"W
C3	42.95	83.00	29°38'58"	21.97	42.47	S07°31'23"W
C4	39.83	75.00	30°25'53"	20.40	39.37	S07°16'58"W

**SCHEDULE A: PERIMETER LANDSCAPED EDGE**

CATEGORY	ADJACENT TO PERIMETER PROPERTIES			TOTAL
	A (PERIMETER 1)	A (PERIMETER 2)	A (PERIMETER 3)	
LANDSCAPE TYPE	442.69 LF	313.72 LF	657.08 LF	
CREDIT FOR EXISTING VEGETATION (YES, NO, LINEAR FEET)	YES, CREDIT FOR EX. TREES TO REMAIN 146 LF.	YES, CREDIT FOR EX. TREES TO REMAIN 313.72 LF.	YES, CREDIT FOR EX. TREES TO REMAIN 280 LF.	
NUMBER OF PLANTS REQUIRED	5 SHADE TREES 0 EVERGREEN TREES 0 SHRUBS	0 SHADE TREES 0 EVERGREEN TREES 0 SHRUBS	6 SHADE TREES 0 EVERGREEN TREES 0 SHRUBS	11 SHADE TREES 0 EVERGREEN TREES 0 SHRUBS
CREDIT FOR EXISTING VEGETATION	0 SHADE TREES 0 EVERGREEN TREES 0 SHRUBS	0 SHADE TREES 0 EVERGREEN TREES 0 SHRUBS	0 SHADE TREES 0 EVERGREEN TREES 0 SHRUBS	0 SHADE TREES 0 EVERGREEN TREES 0 SHRUBS
NUMBER OF PLANTS PROVIDED	5 SHADE TREES 0 EVERGREEN TREES 0 OTHER TREES (2:1 SUBSTITUTION) 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	11 SHADE TREES 0 EVERGREEN TREES 0 SUBSTITUTION TREES 0 SHRUBS

**LANDSCAPE REQUIREMENT PLANTING SCHEDULE**

QUANTITY	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE
11		ACER RUBRUM 'RED SUNSET'	RED SUNSET RED MAPLE	2 1/2" - 3" CAL.
TOTAL				
11		SHADE TREES		



**SPECIMEN TREES**

KEY	SPECIES
ST#1	45" SYCAMORE
ST#2	34" POPLAR
ST#3	31" POPLAR
ST#4	30" POPLAR
ST#5	40" POPLAR
ST#6	42" RED MAPLE

**SOILS CLASSIFICATION:**  
 M<sub>0</sub> (D) MIXED ALLUVIAL LAND  
 M<sub>1</sub> (C) MONTALTO AND RELAY SOILS, 15 TO 45 PERCENT SLOPES  
 M<sub>2</sub> (C) MONTALTO AND RELAY VERY STONEY SILT LOAMS, 25 TO 60 PERCENT SLOPES

**BUILDER**  
 HAMILTON REED  
 8000 MAIN STREET  
 ELLICOTT CITY, MD 21043  
 410-480-9105

**OWNER**  
 REUER ENTERPRISES, LLC.  
 R/E GROUP, Inc.  
 8000 MAIN STREET  
 ELLICOTT CITY, MD 21043  
 410-480-9105

**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 OF THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE NATURAL RESOURCE CONSERVATION SERVICE.

*Steph Fry*  
 SIGNATURE OF DEVELOPER  
 PRINTED NAME OF DEVELOPER  
 DATE: 6/1/04

**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.

*Jim Meyer*  
 SIGNATURE OF ENGINEER  
 PRINTED NAME OF ENGINEER  
 DATE: 6/22/04

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

*John R. Robertson*  
 SIGNATURE OF ENGINEER  
 PRINTED NAME OF ENGINEER  
 DATE: 6/22/04

APPROVED, DEPARTMENT OF PLANNING AND ZONING  
*[Signature]*  
 CHIEF, DEVELOPMENT ENGINEERING DIVISION (MAJ)  
 DATE: 7/6/04

*[Signature]*  
 CHIEF, DIVISION OF LAND DEVELOPMENT  
 DATE: 7/6/04

APPROVED, DEPARTMENT OF PLANNING AND ZONING  
*[Signature]*  
 DIRECTOR

**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 CODE, AND THE HOWARD COUNTY LANDSCAPE MANUAL. I/WE FURTHER CERTIFY THAT UPON COMPLETION A CERTIFICATION OF LANDSCAPE INSTALLATION, ACCOMPANIED BY AN EXECUTED ONE YEAR GUARANTEE OF PLANT MATERIALS, WILL BE SUBMITTED TO THE DEPARTMENT OF PLANNING AND ZONING.

*Steph Fry*  
 SIGNATURE OF DEVELOPER  
 PRINTED NAME OF DEVELOPER  
 DATE: 6/22/04





HOWARD SOIL CONSERVATION DISTRICT

PERMANENT SEEDING NOTES

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

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

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

- 1) PREFERRED - APPLY 2 TONS PER ACRES 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 400 LBS. PER ACRE 30-0-0 UREAFORM FERTILIZER (9 LBS./1000 SQ.FT.).
2) ACCEPTABLE - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS./1000 SQ.FT.) AND 1000 LBS. PER ACRE 10-10-10 FERTILIZER (23 LBS./1000 SQ.FT.) BEFORE SEEDING. HARROW OR DISK INTO UPPER THREE INCHES OF SOIL.

MULCHING - APPLY 1-1/2 TO 2 TONS PER ACRE (70 TO 90 LBS./1000 SQ.FT.) OF UNROTTED SMALL GRASS 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 (6 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. SEEDING PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISKING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED.

SOIL AMENDMENTS: APPLY 600 LBS. PER ACRE 10-10-10 FERTILIZER (14 LBS./1000 SQ.FT.)

SEEDING: FOR PERIODS MARCH 1 THRU APRIL 30 AND FROM AUGUST 15 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 WEEDING LOGGRASS (3 LBS./1000 SQ.FT.). FOR THE PERIOD NOVEMBER 16 THRU NOVEMBER 28, PROJECT SITE BY APPLYING 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SMALL 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 WHEED FREE SMALL GRASS 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 (6 GAL/1000 SQ.FT.) FOR ANCHORING.

STANDARD SEDIMENT CONTROL NOTES

- 1) A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS, SEDIMENT CONTROL DIVISION PRIOR TO THE START OF ANY CONSTRUCTION, (313-1855).
2) ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE MOST CURRENT MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, AND REVISIONS THERE TO.
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 SHALL 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 1991 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDING (SEC.51), SOD (SEC. 54), TEMPORARY SEEDING (SEC.50) AND MULCHING (SEC.50). 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: 1.85 ACRES
AREA DISTURBED: 0.67 ACRES
AREA TO BE ROOFED OR PAVED: 0.24 ACRES
AREA TO BE VEGETATIVELY STABILIZED: 0.43 ACRES
TOTAL CUT: 530 CU. YDS.
TOTAL FILL: 530 CU. YDS.
TOTAL WASTE/BORROW AREA LOCATION: N/A
THESE QUANTITIES ARE FOR PERMITS 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.

- 1. 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 AOIDIC THAT TREATMENT WITH LIMESTONE IS NOT FEASIBLE.
2. 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

- 1. 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.
2. TOPSOIL SPECIFICATIONS - SOIL TO BE USED AS TOPSOIL MUST MEET THE FOLLOWING:
I. TOPSOIL SHALL BE A LOAM, SANDY LOAM, CLAY LOAM, SILT LOAM, SANDY CLAY LOAM, LOAMY SAND, OTHER SOILS MAY BE USED IF RECOMMENDED BY AN AGRONOMIST OR SOIL SCIENTIST AND APPROVED BY THE APPROPRIATE APPROVAL AUTHORITY. REGARDLESS, TOPSOIL SHALL NOT BE A MIXTURE OF CONTRASTING TEXTURED SUBSOILS AND SHALL CONTAIN LESS THAN 5% BY VOLUME OF CONDERS, STONES, SLAG, COARSE FRAGMENTS, GRAVEL, STICKS, ROOTS, TRASH, OR OTHER MATERIALS LARGER THAN 1 1/2" IN DIAMETER.
II. TOPSOIL MUST BE FREE OF PLANTS OR PLANT PARTS SUCH AS BERMUDA GRASS, QUACKGRASS, JOHNSONSON GRASS, NUTSEDGE, POISON IVY, THISLE, OR OTHERS AS SPECIFIED.
III. WHERE THE SUBSOIL IS EITHER HIGHLY AOIDIC 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.
III. FOR SITES HAVING DISTURBED AREAS UNDER 5 ACRES:
I. PLACE TOPSOIL (IF REQUIRED) AND APPLY SOIL AMENDMENTS AS SPECIFIED IN 20.0 VEGETATIVE STABILIZATION - SECTION 1 - VEGETATIVE STABILIZATION METHODS AND MATERIALS.
IV. FOR SITES HAVING DISTURBED AREAS OVER 5 ACRES:
I. ON SOIL MEETING TOPSOIL SPECIFICATIONS, OBTAIN TEST RESULTS DICTATING FERTILIZER AND LIME AMENDMENTS REQUIRED TO BRING THE SOIL INTO COMPLIANCE WITH THE FOLLOWING:
a. PH FOR 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 SOD OR SEED SHALL BE PLACED ON SOIL WHICH HAS BEEN TREATED WITH SOIL STERILANTS OR CHEMICALS USED FOR WEED CONTROL, UNTIL SUFFICIENT TIME HAS ELAPSED (14 DAYS MIN.) TO PERMIT DISSIPATION OF PHYTO-TOXIC MATERIALS.
NOTE: TOPSOIL SUBSTITUTES 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 20.0 VEGETATIVE STABILIZATION - SECTION 1 - VEGETATIVE STABILIZATION METHODS AND MATERIALS.

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)

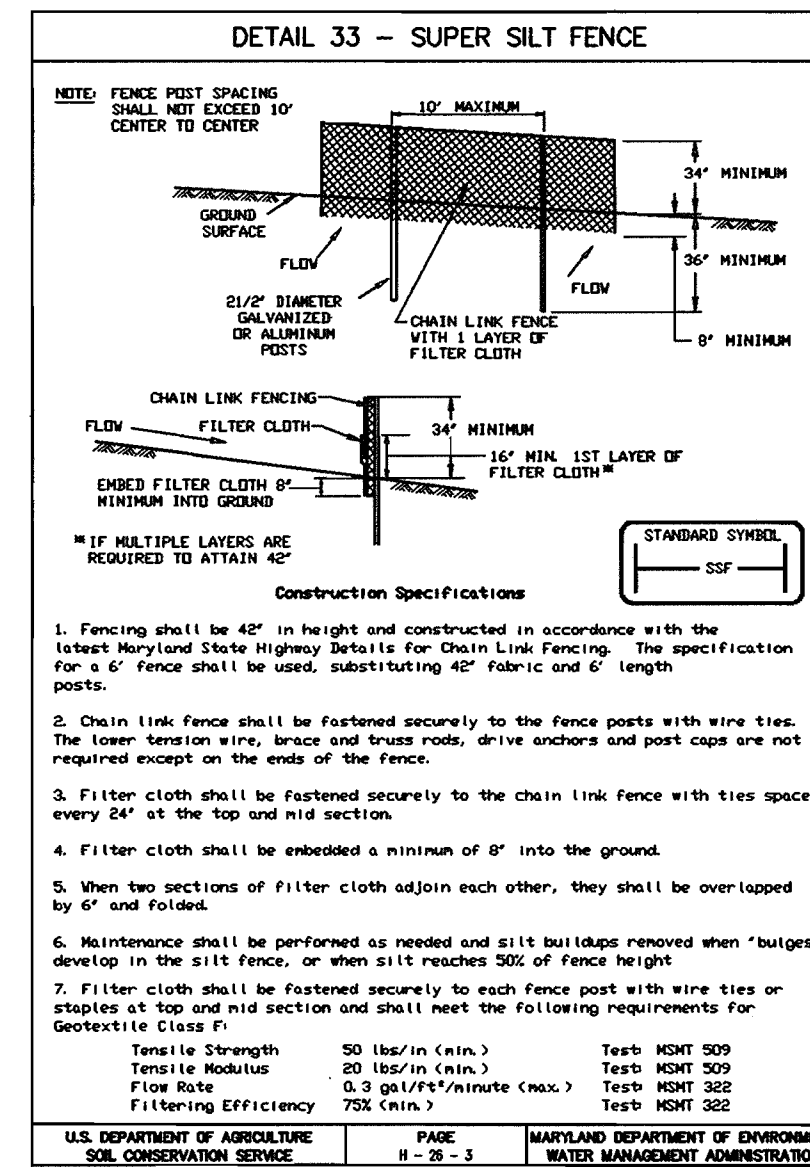
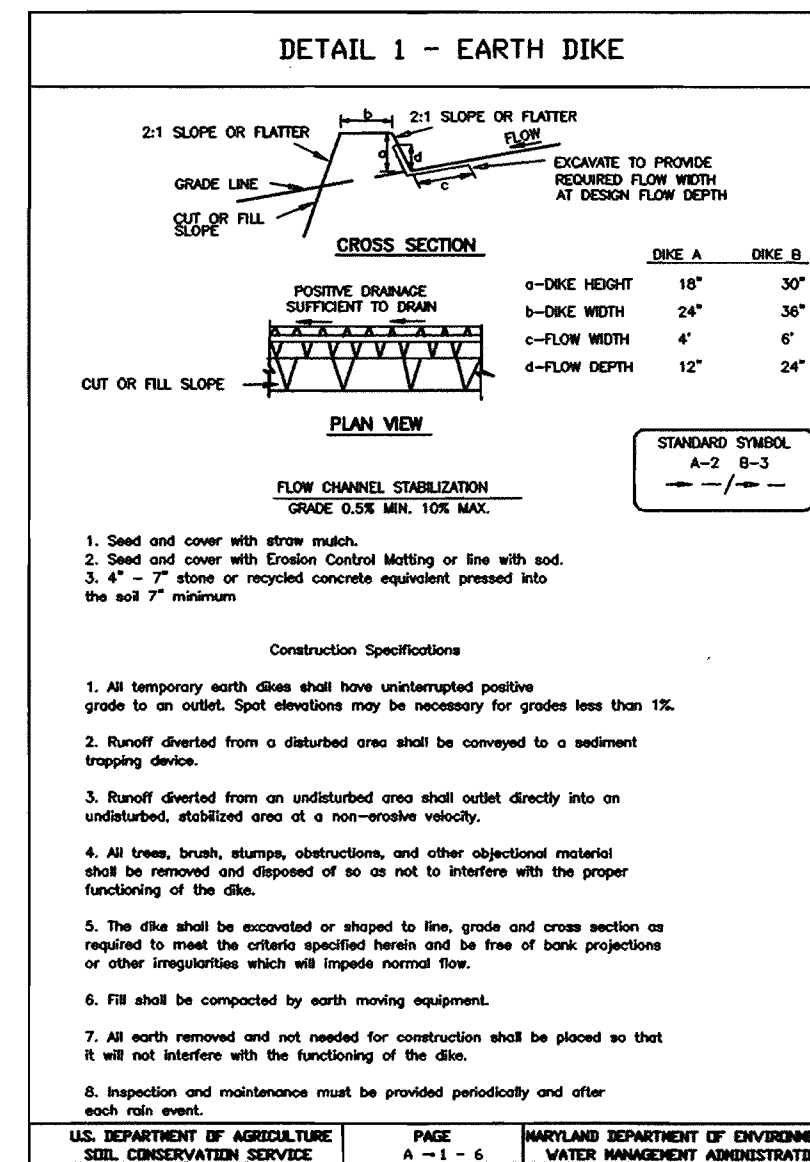
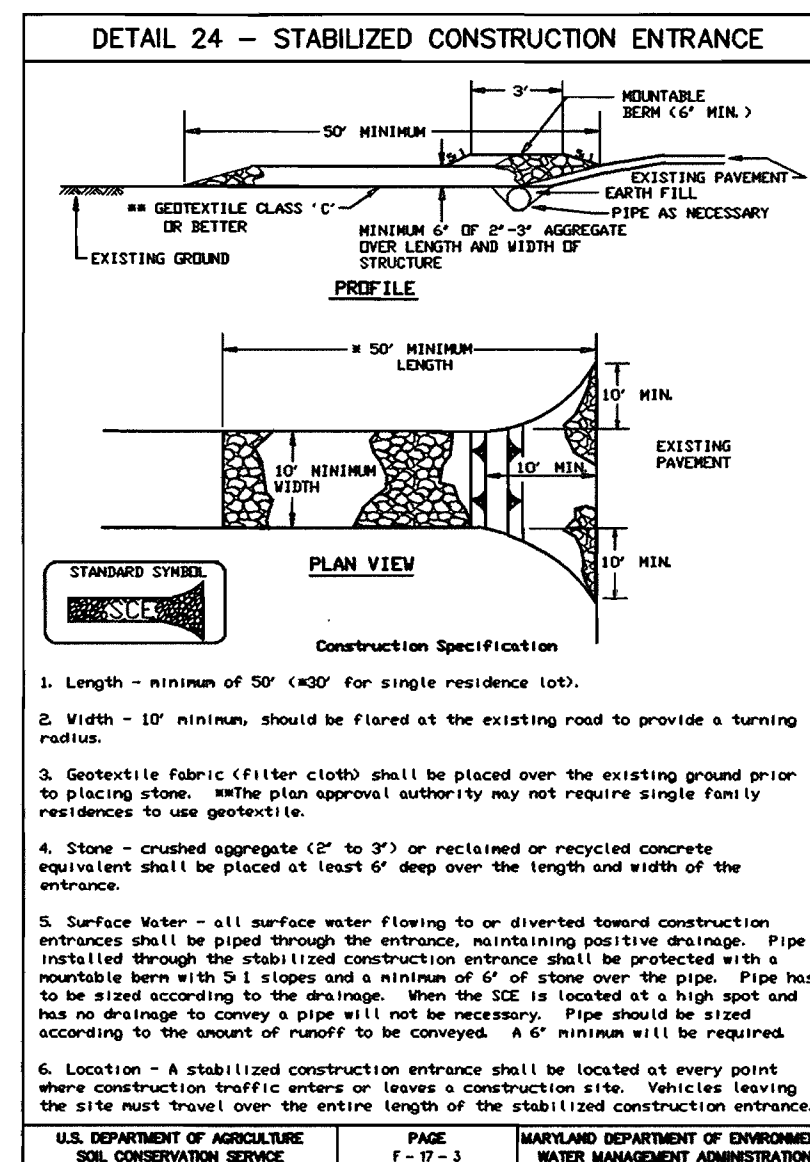


Table with 4 columns: Slope, Slope Steepness, Slope Length (Maximum), Silt Fence Length (Maximum). Rows include slopes from 0-10% to 50%+.



TEMPORARY DUST CONTROL MEASURES

- 1. MULCHES - SEE STANDARDS FOR VEGETATIVE STABILIZATION WITH MULCHES ONLY. MULCH SHOULD BE CRUMPED OR TACKED TO PREVENT BLOWING.
2. VEGETATIVE COVER - SEE STANDARDS FOR TEMPORARY VEGETATIVE COVER.
3. TILLAGE - TO BROUGHTH SURFACE AND BRING CLODS TO THE SURFACE. THIS IS AN EMERGENCY MEASURE WHICH SHOULD BE USED BEFORE SOIL BLOWING STARTS. BEGON FLOWING ON WINDWARD SIDE OF SITE. CHISEL-TYPE PLOWS APICED 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. IT 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.
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.

DEVELOPERS CERTIFICATE, ENGINEER'S CERTIFICATE, and APPROVED sections with signatures and dates.

BUILDER: HAMILTON REED, R/E GROUP, INC., ELLICOTT CITY, MD 21042

OWNER: REUMER ENTERPRISES, LLC., R/E GROUP, INC., 8000 MAIN STREET, ELLICOTT CITY, MD 21043

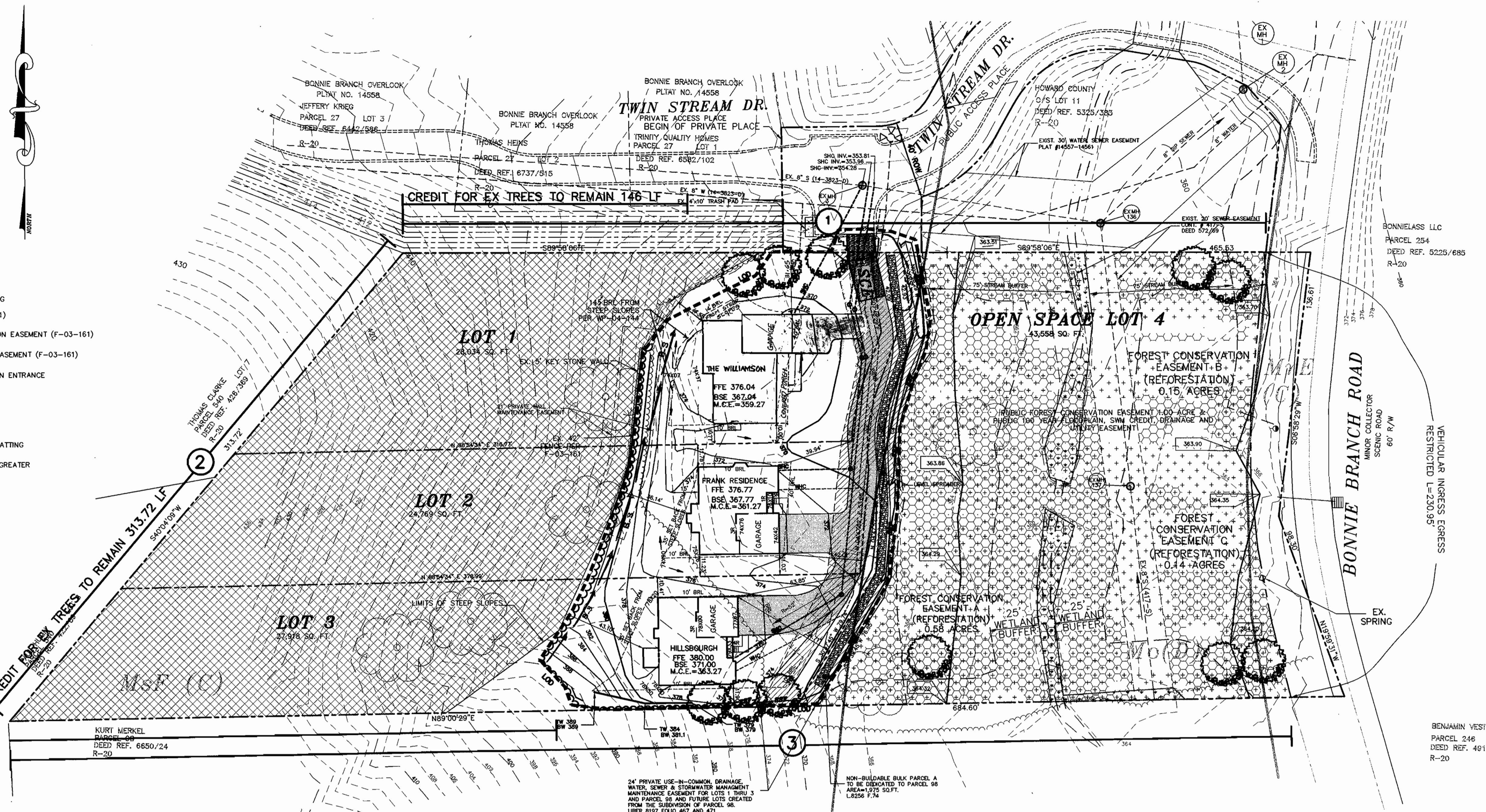
Project information table with columns for project, date, illustration, MMT, scale, approval.

Revision table with columns for no., description, date.

FINCHAM PROPERTY, 2ND ELECTION DISTRICT, HOWARD COUNTY, MARYLAND. LOTS 1-3, OPEN SPACE, LOT 4 & NON-BUILDABLE BULK PARCEL A.

MILDENBERG & ASSOC., INC. Engineers, Planners, Surveyors. 5072 Dorsey Hall Drive, Suite 202, Ellicott City, Maryland, 21042





**LEGEND**

- TREE PROTECTIVE FENCING
- EX. WETLANDS (F-03-161)
- EX. FOREST CONSERVATION EASEMENT (F-03-161)
- 100-YEAR FLOODPLAIN EASEMENT (F-03-161)
- STABILIZED CONSTRUCTION ENTRANCE
- SILT FENCE
- SUPER SILT FENCE
- LIMIT OF DISTURBANCE
- EX. EROSION CONTROL MATTING
- STEEP SLOPES, 25% OR GREATER
- SHC CLEANOUT
- DIVERSTION DIKE

**CURVE DATA**

CURVE NO.	LENGTH	RADIUS	DELTA	TANGENT	CHORD	CHORD BEARING
C1	34.45	99.00	19°56'26"	17.40	34.28	S12°08'01"W
C2	46.02	91.00	28°58'24"	23.51	45.53	S07°43'52"W
C3	42.95	83.00	29°38'58"	21.97	42.47	S07°31'23"W
C4	39.83	75.00	30°25'53"	20.40	39.37	S07°16'58"W

**SCHEDULE A : PERIMETER LANDSCAPED EDGE**

CATEGORY	ADJACENT TO PERIMETER PROPERTIES			TOTAL
	A (PERIMETER 1)	A (PERIMETER 2)	A (PERIMETER 3)	
LANDSCAPE TYPE	442.69 LF	313.72 LF	657.08 LF	
LINEAR FEET OF PERIMETER	442.69 LF	313.72 LF	657.08 LF	
CREDIT FOR EXISTING VEGETATION (YES, NO, LINEAR FEET)	YES, CREDIT FOR EX. TREES TO REMAIN 146 LF.	YES, CREDIT FOR EX. TREES TO REMAIN 313.72 LF.	YES, CREDIT FOR EX. TREES TO REMAIN 280 LF.	
NUMBER OF PLANTS REQUIRED	5 SHADE TREES 0 EVERGREEN TREES 0 SHRUBS	0 SHADE TREES 0 EVERGREEN TREES 0 SHRUBS	6 SHADE TREES 0 EVERGREEN TREES 0 SHRUBS	11 SHADE TREES 0 EVERGREEN TREES 0 SHRUBS
CREDIT FOR EXISTING VEGETATION	0 SHADE TREES 0 EVERGREEN TREES 0 SHRUBS	0 SHADE TREES 0 EVERGREEN TREES 0 SHRUBS	0 SHADE TREES 0 EVERGREEN TREES 0 SHRUBS	0 SHADE TREES 0 EVERGREEN TREES 0 SHRUBS
NUMBER OF PLANTS PROVIDED	5 SHADE TREES 0 EVERGREEN TREES 0 SUBSTITUTION TREES 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	11 SHADE TREES 0 EVERGREEN TREES 0 SUBSTITUTION TREES 0 SHRUBS

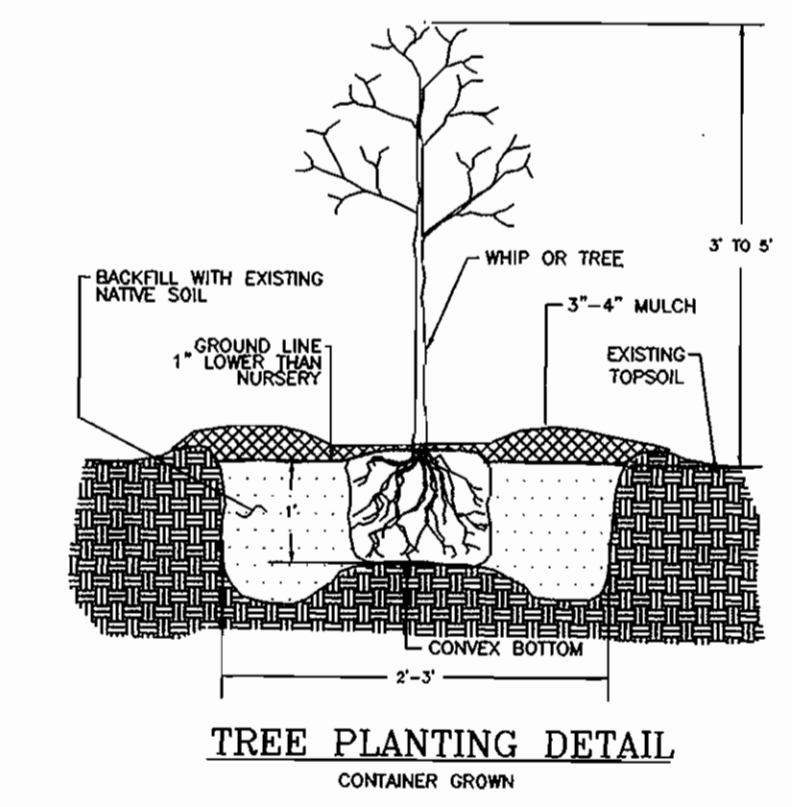
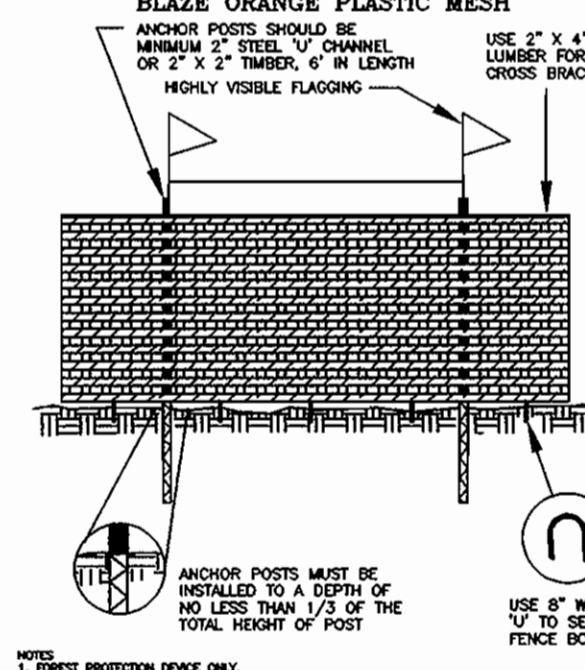
**LANDSCAPE REQUIREMENT PLANTING SCHEDULE**

QUANTITY	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE
11		ACER RUBRUM 'RED SUNSET'	RED SUNSET RED MAPLE	2 1/2" - 3" CAL.
<b>TOTAL</b>				
11		SHADE TREES		

**SPECIMEN TREES**

KEY	SPECIES
ST#1	45" SYCAMORE
ST#2	34" POPLAR
ST#3	31" POPLAR
ST#4	30" POPLAR
ST#5	40" POPLAR
ST#6	42" RED MAPLE

**PROTECTIVE FENCE DETAIL**



**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 OF THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE NATURAL RESOURCE CONSERVATION SERVICE.

*Steph F...* 6/1/09  
 SIGNATURE OF DEVELOPER DATE  
 PRINTED NAME OF DEVELOPER

**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.

*R. Jacob Hikmat* 6/1/09  
 SIGNATURE OF ENGINEER DATE  
 PRINTED NAME OF ENGINEER

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

*Jim Meyer* 6/22/09  
 SIGNATURE OF NRC SERVICE DATE  
 PRINTED NAME OF NRC SERVICE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.

*John R. Robertson* 6/22/09  
 SIGNATURE OF DISTRICT DIRECTOR DATE  
 PRINTED NAME OF DISTRICT DIRECTOR

APPROVED: DEPARTMENT OF PLANNING AND ZONING  
 CHIEF, DEVELOPMENT ENGINEERING DIVISION MAJ 6/22/09  
 CHIEF, DIVISION OF LAND DEVELOPMENT 7/6/09  
 DIRECTOR 7/6/09

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

I/WE CERTIFY THAT THE LANDSCAPING SHOWN ON THIS PLAN WILL BE DONE IN ACCORDANCE TO THE PLAN, SECTION 18.124 OF THE HOWARD COUNTY CODE, AND THE HOWARD COUNTY LANDSCAPE MANUAL. I/WE FURTHER CERTIFY THAT UPON COMPLETION A CERTIFICATION OF LANDSCAPE INSTALLATION, ACCOMPANIED BY AN EXECUTED ONE-YEAR GUARANTEE OF PLANT MATERIALS, WILL BE SUBMITTED TO THE DEPARTMENT OF PLANNING AND ZONING.

*Steph F...*  
 NAME DATE

**SOILS CLASSIFICATION:**  
 Mo (O) MIXED ALLUVIAL LAND  
 MfE (C) MONTALTO AND RELAY SOILS, 15 TO 45 PERCENT SLOPES  
 MfF (C) MONTALTO AND RELAY VERY STONEY SILT LOAMS, 25 TO 60 PERCENT SLOPES

**BUILDER**  
 HAMILTON REED  
 8000 MAIN STREET  
 ELLICOTT CITY, MD 21043  
 410-480-9105

**OWNER**  
 REUMER ENTERPRISES, LLC.  
 8000 MAIN STREET  
 ELLICOTT CITY, MD 21043  
 410-480-9105

date	MAY 04	approval	SAA
project	03-084	illustration	MRT
scale	1"=30'	description	

NO.	1	REVISE	DATE	2/10/05
DESCRIPTION	TYPE: ON LOT 1			
REVISIONS				

**FINCHAM PROPERTY**  
 LOTS 1-3, OPEN SPACE LOT 4 & NON-BUILDABLE BULK PARCEL A  
 TAX MAP 31 PARCEL 286  
 2ND ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND  
**SITE DEVELOPMENT AND LANDSCAPE PLAN**

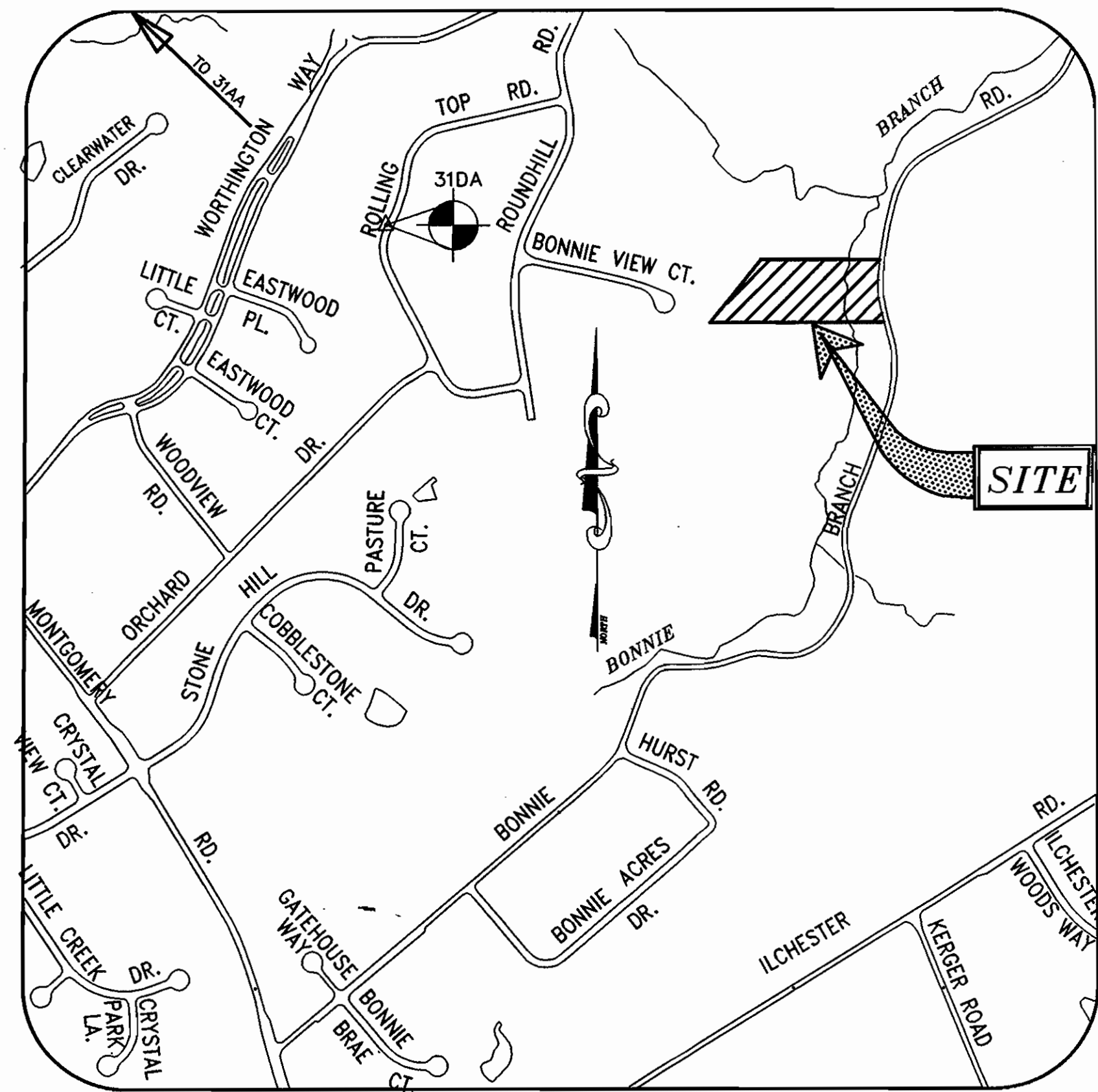
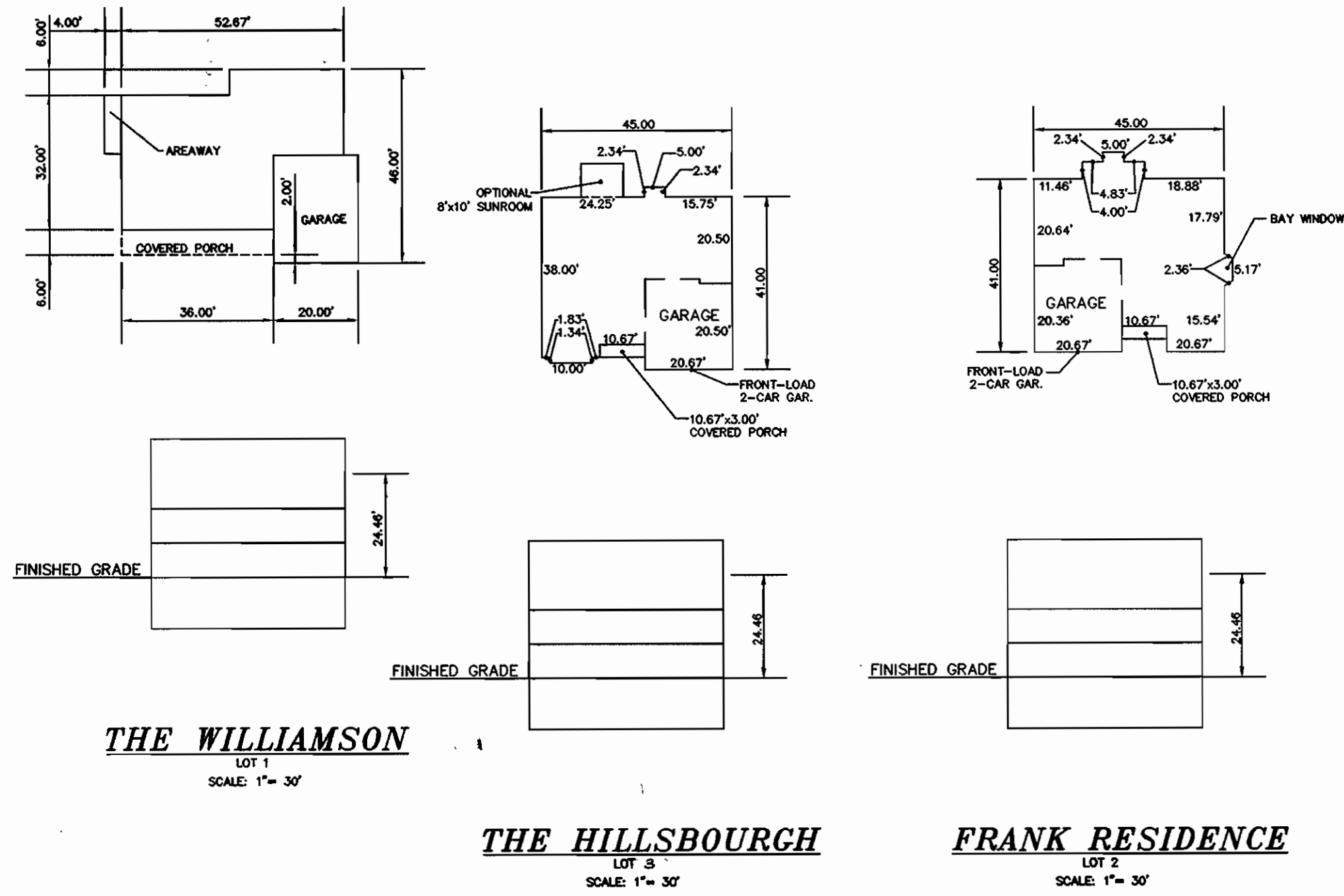
**MILDENBERG, BOENDER & ASSOC., INC.**  
 Engineers Planners Surveyors  
 5072 Dorsey Hill Drive, Suite 202, Ellicott City, Maryland, 21042  
 (410) 987-0286 Fax: (410) 987-0288 Fax



# SITE DEVELOPMENT PLAN FINCHAM PROPERTY

LOTS 1 THRU 3, OPEN SPACE LOT 4  
AND NON-BUILDABLE BULK PARCEL "A"

SECOND ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND



VICINITY MAP  
SCALE: 1"=1000'

INDEX OF DRAWINGS	
NO.	DESCRIPTION
1	COVER SHEET
2	SITE DEVELOPMENT AND LANDSCAPE PLAN
3	SEDIMENT CONTROL NOTES AND DETAILS

PERMIT INFORMATION CHART			
SUBDIVISION NAME FINCHAM PROPERTY	SECTION/AREA N/A	LOT/PARCEL # PARCEL 286, LOTS 1-3	
PLAT # OR L/F 16616-16617	BLOCK # 9	ZONE R-20	TAX MAP 31
ELEC. DIST. SECOND		CENSUS TRACT 602306	
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	7911 TWIN STREAM DR.
LOT 2	7907 TWIN STREAM DR.
LOT 3	7903 TWIN STREAM DR.

**BUILDER**  
HAMILTON REED  
8000 MAIN STREET  
ELICOTT CITY, MD 21043  
410-480-9105

**OWNER**  
REUER ENTERPRISES, LLC.  
R/E GROUP, INC.  
8000 MAIN STREET  
ELICOTT CITY, MD 21043  
410-480-9105

**GENERAL NOTES:**

- SITE DATA:  
ZONING: R-20  
TAX MAP 31 PARCEL 286 GRID 9.  
DEED REFERENCE: 6863/313  
GROSS AREA: 3,007 ACRES ±  
MINIMUM LOT SIZE: 24,242 SQ. FT.  
NUMBER OF BUILDABLE LOTS: 3  
PREVIOUS DPZ FILE NUMBERS: F-03-161 WP-04-144
- THIS BOUNDARY IS BASED ON A FIELD MONUMENTED BOUNDARY SURVEY DONE BY MILDENBERG, BOENDER & ASSOCIATES ON OR ABOUT FEB. 2003.
- THE COORDINATES SHOWN HEREON ARE BASED ON NAD '83 MARYLAND COORDINATE SYSTEM AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS 421A AND 421B  
STATION NO. 31AA N 573,998.5709 E 1,369,934.229 ELEVATION 500.157  
STATION NO. 31DA N 571,982.6701 E 1,372,145.075 ELEVATION 482.35
- TOPOGRAPHIC DATA SHOWN HEREON IS BASED ON A FIELD RUN TOPOGRAPHIC SURVEY CONDUCTED IN FEB. 2003 BY MILDENBERG, BOENDER & ASSOCIATES, INC.
- THIS SUBDIVISION IS SUBJECT TO THE AMENDED 5TH EDITION OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS COUNCIL BILL 45-2003 AND THE ZONING REGULATIONS AS AMENDED UNDER COUNCIL BILL # 75-2003.
- PROPERTY IS LOCATED WITHIN THE METROPOLITAN DISTRICT. PUBLIC WATER AND SEWER WILL BE UTILIZED.
- DRIVEWAYS SHALL BE PROVIDED PRIOR TO ISSUANCE OF A USE AND OCCUPANCY PERMIT FOR A NEW DWELLING 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 RADIUS.  
D) STRUCTURES (CULVERTS/BRIDGES) - CAPABLE OF SUPPORTING 25 GROSS TONS (H2S 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 TO THE PIPESTEM LOT DRIVEWAY.
- WETLAND & FOREST STAND DELINEATIONS PREPARED BY MILDENBERG, BOENDER, & ASSOCIATES, INC. ON OR ABOUT MARCH 2003, F-03-161.
- SOILS DATA BASED ON HOWARD COUNTY SOIL SURVEY DATED JULY 1968, SHEET 21.
- THE FOREST CONSERVATION REQUIREMENTS PER SECTION 16.1202 OF THE HOWARD COUNTY CODE FOR FOREST CONSERVATION BY REFORESTATION OF 1.00 ACRE AND PAYMENT OF FEE-IN-LIEU OF REFORESTATION FOR 0.11 ACRES (4,791.6 SQ. FT.) IN THE AMOUNT \$2,395.80. FINANCIAL SURETY FOR THE ON-SITE REFORESTATION OF 1.00 ACRES (43,560 SQ. FT.) HAS BEEN POSTED AS PART OF THE DEVELOPERS AGREEMENT IN THE AMOUNT OF \$21,780.00 UNDER F-03-161.
- LANDSCAPING FOR LOTS 1 THRU 4 IS PROVIDED IN ACCORDANCE WITH SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL. FINANCIAL SURETY FOR THE REQUIRED LANDSCAPING FOR 3 SHADE TREES ON LOT 1 IN THE AMOUNT OF \$1,500.00 AND 3 SHADE TREES ON LOT 3 IN THE AMOUNT OF \$1,800.00.
- AT THE TIME OF INSTALLMENT, ALL SHRUBS AND OTHER PLANTING HEREWITH 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 PLANTING 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.
- SWM REQUIREMENTS HAVE BEEN SATISFIED PER THE 2000 MDE SWM MANUAL. SHEET FLOW TO BUFFER CREDIT HAS BEEN USED, F-03-161.
- NO CLEARING, GRADING OR CONSTRUCTION IS PERMITTED WITHIN THE WETLANDS, STREAMS OR THEIR REQUIRED BUFFERS AND FOREST CONSERVATION EASEMENTS.
- IN ACCORDANCE WITH SECTION 128 OF THE HOWARD COUNTY ZONING REGULATIONS, BAY WINDOWS OR CHIMNEYS NOT MORE THAN 10 FEET IN WIDTH MAY PROJECT NOT MORE THAN 4 FEET INTO ANY SETBACKS, PORCHES OR DECKS. MAY PROJECT NOT MORE THAN 3 FEET INTO THE FRONT OR REAR YARD SET BACKS. EXTERIOR BASEMENT AREAWAYS MAY NOT ENCLOSE INTO ANY BRL.
- OPEN SPACE LOT 4 IS DEDICATED TO THE HOWARD COUNTY DEPARTMENT OF RECREATION AND PARKS.
- PUBLIC WATER AND SEWER WILL BE PROVIDED UNDER 14-3823-D.
- WAIVER PETITION (WP-04-144) FOR SECTIONS 16.120(b)(4)(iii) AND SECTION 16.120(b)(6)(v) WAS GRANTED ON MAY 26, 2004 SUBJECT TO THE FOLLOWING:  
A. THE MAXIMUM SETBACK REDUCTION IS 18' (FROM 35') AS SHOWN ON THE SITE DEVELOPMENT PLAN SUBMITTED MAY 26, 2004.  
B. FOR LOT 1, ANY FUTURE ADDITIONS OR EXTENSIONS SHALL COMPLY WITH THE REDUCED 35' SETBACK TO 18' AS INDICATED ON THE WAIVER PETITION EXHIBIT. A DECK MAY PROJECT TO BEYOND THE REDUCED SETBACK, PER SECTION 16.120(b)(4)(iii)(c).  
20. WAIVER PETITION (WP-05-008) FOR SECTIONS 16.120(b)(4)(iii)(c) WAS GRANTED ON JAN. 20, 2005 SUBJECT TO THE FOLLOWING:  
A. THE WAIVER PETITION APPROVAL PERTAINS TO THE LIMIT OF DISTURBANCE WITHIN THE 35' SETBACK AREA ON LOT 1 AS SHOWN ON THE WAIVER PETITION PLAN EXHIBIT WITH A MAXIMUM SETBACK REDUCTION TO 14.5'. THE LIMIT OF DISTURBANCE SHALL BE THE MINIMUM NECESSARY FOR THE PROPOSED SITE IMPROVEMENTS.  
B. FOR LOT 1, ANY FUTURE ADDITIONS OR EXTENSIONS SHALL COMPLY WITH THE REDUCED 35' SETBACK TO 14.5' AS INDICATED ON THE WAIVER PETITION EXHIBIT. A DECK MAY PROJECT TO BEYOND THE REDUCED SETBACK, PER SECTION 16.120(b)(4)(iii)(c).  
C. THE APPLICANT MUST SUBMIT A RED-LINE REVISION OR A HOUSE TYPE REVISION FOR SDP-04-090 TO INDICATE THE HOUSE MODEL ON THE PLAN.

**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 OF THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE NATURAL RESOURCE CONSERVATION SERVICE.

*Jim Murren* DATE: 6/11/04  
SIGNATURE OF DEVELOPER  
PRINTED NAME OF DEVELOPER

**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.

*R. Jacob Hikmat* DATE: 6/11/04  
SIGNATURE OF ENGINEER  
PRINTED NAME OF ENGINEER

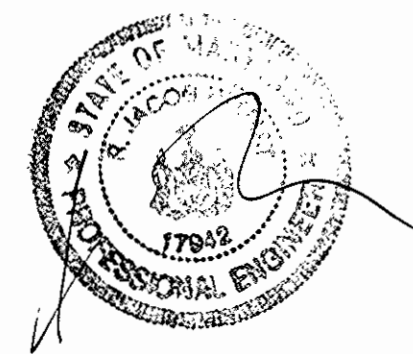
THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD COUNTY NATURAL RESOURCE CONSERVATION SERVICE AND MEETS TECHNICAL REQUIREMENTS.

*Jim Murren* DATE: 6-22-04  
USA - NATURAL RESOURCE CONSERVATION SERVICE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.

*John K. Robertson* DATE: 6/22/04  
HOWARD SOIL CONSERVATION DISTRICT

APPROVED: DEPARTMENT OF PLANNING AND ZONING  
DATE: 6/22/04  
CHIEF, DEVELOPMENT ENGINEERING DIVISION  
DATE: 7/6/04  
CHIEF, DIVISION OF LAND DEVELOPMENT  
DATE: 7/6/04  
DIRECTOR



date	JUNE 04
project	02-104
illustration	ENG
scale	1"=30'
approval	SAA

no.	1	date	2/19/05
description	ADD THE WILLIAMSON HOUSE TYPE	revisions	

**FINCHAM PROPERTY - SINGLE FAMILY DETACHED**  
LOTS 1-3, OPEN SPACE LOT 4 & NON-BUILDABLE BULK PARCEL A  
TAX MAP 31 PARCEL 286  
HOWARD COUNTY, MARYLAND  
2ND ELECTION DISTRICT  
COVER SHEET

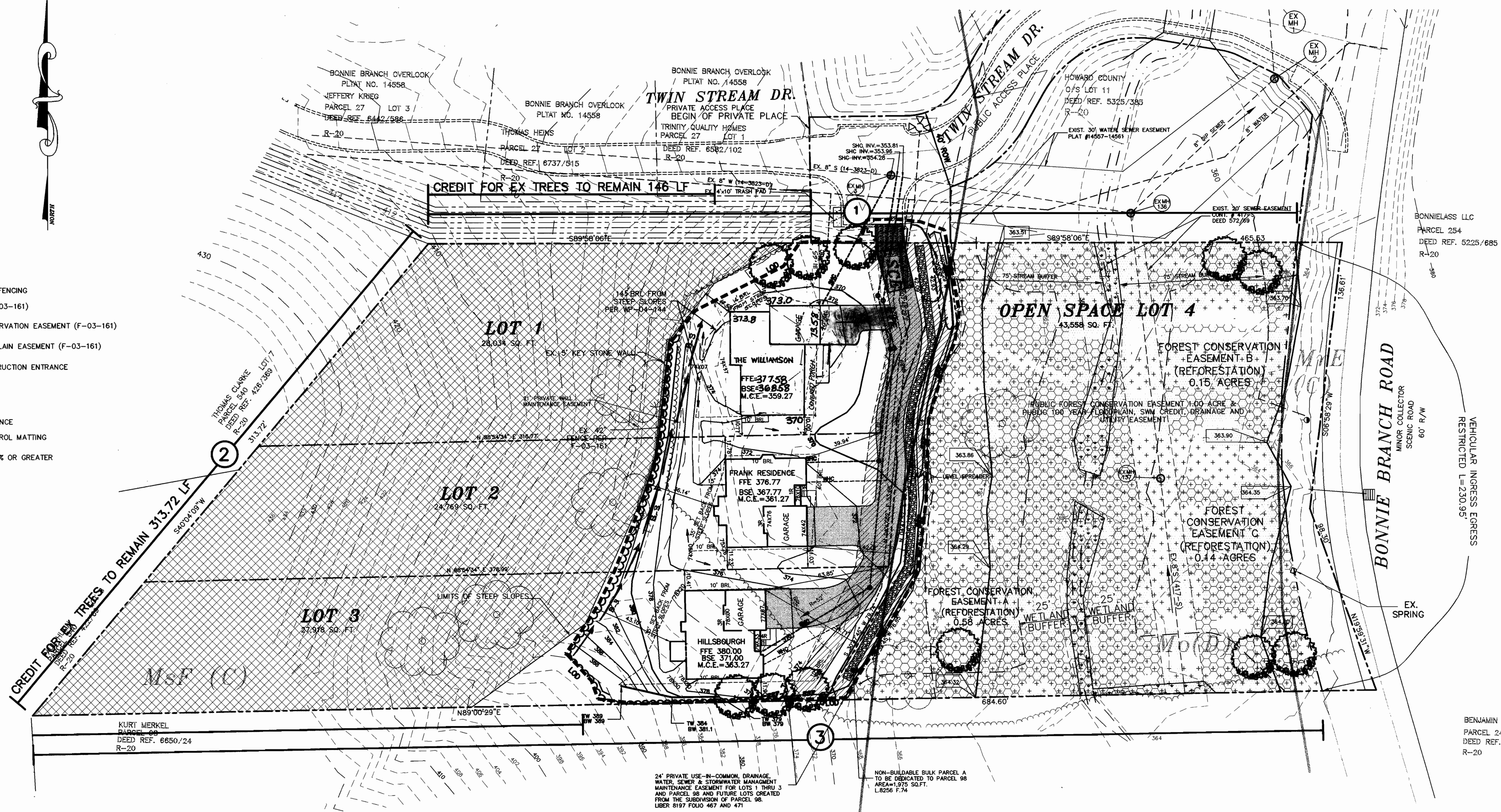
**MILDENBERG, BOENDER & ASSOC., INC.**  
Engineers Planners Surveyors  
5072 Horse Hall Drive, Suite 202, Elkton City, Maryland 21042  
(410) 997-0296 Fax: (301) 621-5621, Wash. (410) 997-0298 Fax.





**LEGEND**

- TREE PROTECTIVE FENCING
- EX. WETLANDS (F-03-161)
- EX. FOREST CONSERVATION EASEMENT (F-03-161)
- 100-YEAR FLOODPLAIN EASEMENT (F-03-161)
- STABILIZED CONSTRUCTION ENTRANCE
- SILT FENCE
- SUPER SILT FENCE
- LIMIT OF DISTURBANCE
- EX. EROSION CONTROL MATTING
- STEEP SLOPES, 25% OR GREATER
- SHC CLEANOUT
- DIVERSION DIKE



**CURVE DATA**

CURVE NO.	LENGTH	RADIUS	DELTA	TANGENT	CHORD	CHORD BEARING
C1	34.45	99.00	19°56'26"	17.40	34.28	S12°08'01"W
C2	46.02	91.00	28°58'24"	23.51	45.53	S07°43'52"W
C3	42.95	83.00	29°38'58"	21.97	42.47	S07°31'23"W
C4	39.83	75.00	30°25'53"	20.40	39.37	S07°16'58"W

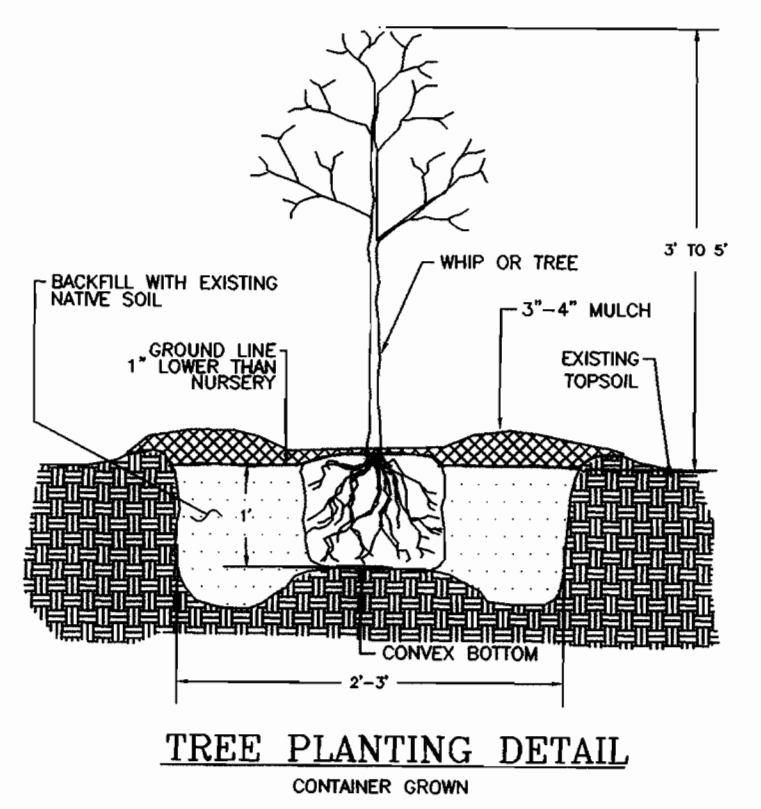
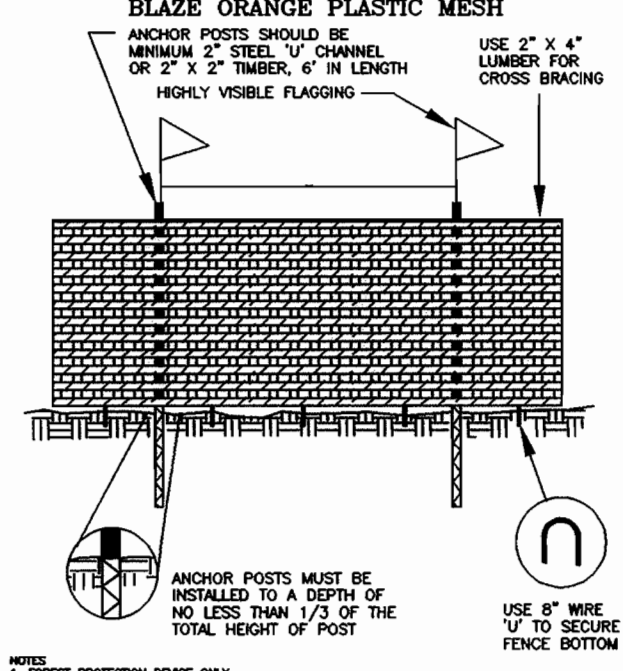
**SCHEDULE A : PERIMETER LANDSCAPED EDGE**

CATEGORY	ADJACENT TO PERIMETER PROPERTIES			TOTAL
	A (PERIMETER 1)	A (PERIMETER 2)	A (PERIMETER 3)	
LANDSCAPE TYPE	442.69 LF	313.72 LF	657.08 LF	
LINEAR FEET OF PERIMETER				
CREDIT FOR EXISTING VEGETATION (YES, NO, LINEAR FEET)	YES, CREDIT FOR EX. TREES TO REMAIN 146 L.F.	YES, CREDIT FOR EX. TREES TO REMAIN 313.72 L.F.	YES, CREDIT FOR EX. TREES TO REMAIN 280 L.F.	
NUMBER OF PLANTS REQUIRED				
SHADE TREES	0	0	6	11
EVERGREEN TREES	0	0	0	0
SHRUBS	0	0	0	0
CREDIT FOR EXISTING VEGETATION				
SHADE TREES	0	0	0	0
EVERGREEN TREES	0	0	0	0
SHRUBS	0	0	0	0
NUMBER OF PLANTS PROVIDED				
SHADE TREES	5	0	6	11
EVERGREEN TREES	0	0	0	0
OTHER TREES (2:1 SUBSTITUTION)	0	0	0	0
SHRUBS (10:1 SUBSTITUTION)	0	0	0	0

**SPECIMEN TREES**

KEY	SPECIES
ST#1	45" SYCAMORE
ST#2	34" POPLAR
ST#3	31" POPLAR
ST#4	30" POPLAR
ST#5	40" POPLAR
ST#6	42" RED MAPLE

**PROTECTIVE FENCE DETAIL**



**SOILS CLASSIFICATION:**

Mo (0) MIXED ALLUVIAL LAND  
 MfE (0) MONTALTO AND RELAY SOILS, 15 TO 45 PERCENT SLOPES  
 MfC (0) MONTALTO AND RELAY VERY STONEY SILT LOAMS, 25 TO 60 PERCENT SLOPES

**BUILDER**

HAMILTON REED  
 8000 MAIN STREET  
 ELLICOTT CITY, MD 21043  
 410-480-9105

**OWNER**

REWER ENTERPRISES, LLC.  
 R/E GROUP, Inc.  
 8000 MAIN STREET  
 ELLICOTT CITY, MD 21043  
 410-480-9105

**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 OF THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE NATURAL RESOURCE CONSERVATION SERVICE.

*Steph F. King* 6/11/10  
 SIGNATURE OF DEVELOPER DATE

*Steph F. King*  
 PRINTED NAME OF DEVELOPER

---

**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.

*Jacob Hikmat* 6/11/10  
 SIGNATURE OF ENGINEER DATE

R. JACOB HIKMAT  
 PRINTED NAME OF ENGINEER

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

*Jim Meyer* 6/22/10  
 USED - NATURAL RESOURCE CONSERVATION SERVICE DATE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.

*John K. Robertson* 6/22/10  
 HOWARD COUNTY SOIL CONSERVATION DISTRICT DATE

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APPROVED - DEPARTMENT OF PLANNING AND ZONING

*Chad Williams* 6/22/10  
 CHIEF, DEVELOPMENT ENGINEERING DIVISION (MAD) DATE

*Steph F. King* 7/6/10  
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

*Steph F. King* 7/6/10  
 DIRECTOR DATE

**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 CODE, AND THE HOWARD COUNTY LANDSCAPE MANUAL. I/WE FURTHER CERTIFY THAT UPON COMPLETION A CERTIFICATION OF LANDSCAPE INSTALLATION, ACCOMPANIED BY AN EXECUTED ONE YEAR GUARANTEE OF PLANT MATERIALS, WILL BE SUBMITTED TO THE DEPARTMENT OF PLANNING AND ZONING.

*Steph F. King*  
 NAME DATE

**LANDSCAPE REQUIREMENT PLANTING SCHEDULE**

QUANTITY	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE
11		ACER RUBRUM 'RED SUNSET'	RED SUNSET RED MAPLE	2 1/2" - 3" CAL.
TOTAL				
11		SHADE TREES		

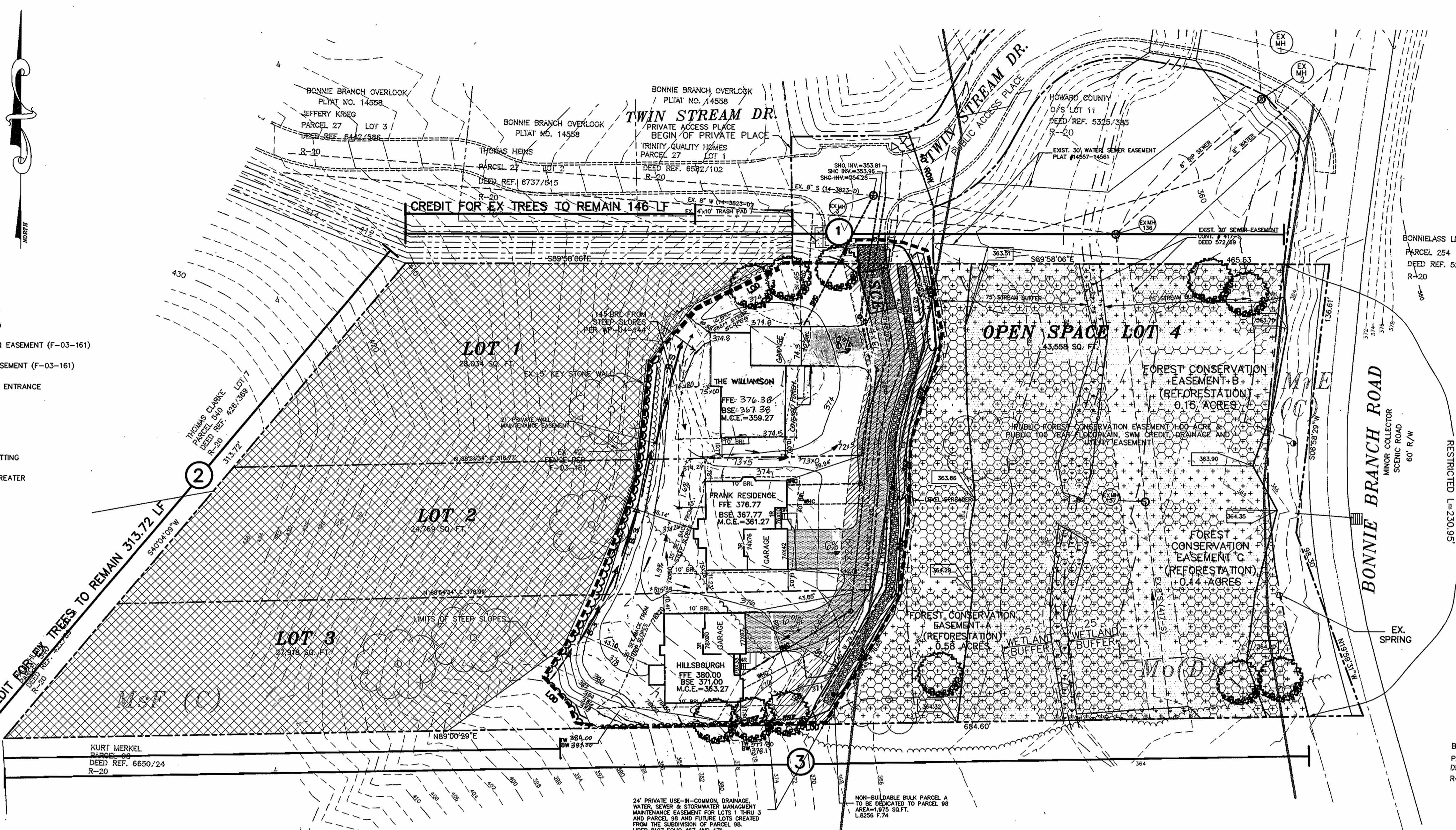
date	MAY 04	engineering	SAA	approval	SAA
project	08-084	illustration	MMT	scale	1"=30'

project	14-19-105	description	REVISION FOR LOT 1	date	2/10/10
no.	1	revision	REVISE HOUSE TYPE ON LOT 1	no.	

**FINCHAM PROPERTY**  
 LOTS 1-3, OPEN SPACE LOT 4 & NON-BUILDABLE BULK PARCEL A  
 2ND ELECTION DISTRICT TAX MAP 31 PARCEL 286  
 HOWARD COUNTY, MARYLAND  
 SITE DEVELOPMENT AND LANDSCAPE PLAN

**MILDENBERG & ASSOC., INC.**  
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 Planners  
 Engineers  
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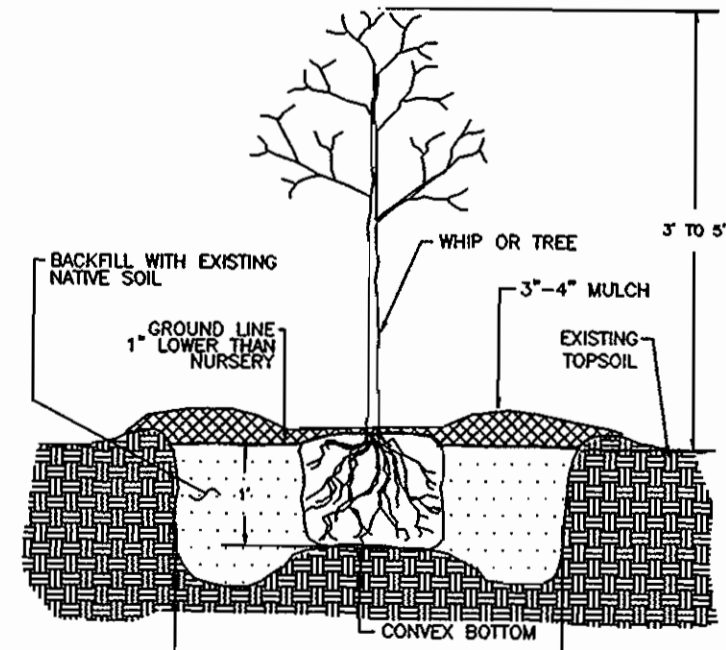
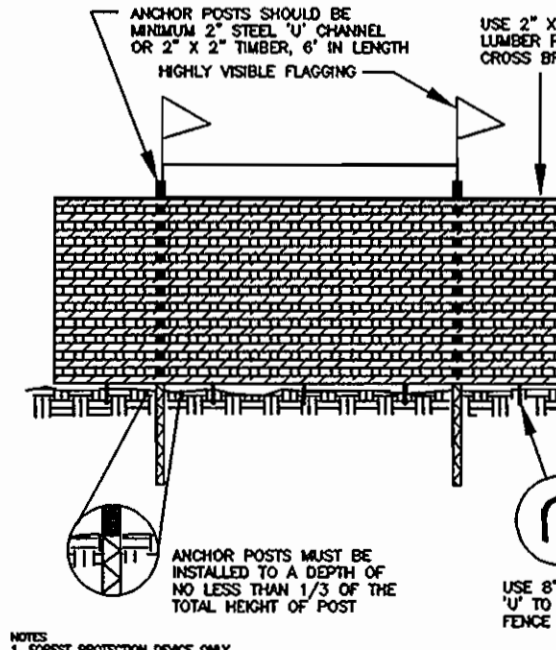
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NUMBER OF PLANTS REQUIRED	5 SHADE TREES 0 EVERGREEN TREES 0 SHRUBS	0 SHADE TREES 0 EVERGREEN TREES 0 SHRUBS	6 SHADE TREES 0 EVERGREEN TREES 0 SHRUBS	11 SHADE TREES 0 EVERGREEN TREES 0 SHRUBS
CREDIT FOR EXISTING VEGETATION	0 SHADE TREES 0 EVERGREEN TREES 0 SHRUBS	0 SHADE TREES 0 EVERGREEN TREES 0 SHRUBS	0 SHADE TREES 0 EVERGREEN TREES 0 SHRUBS	0 SHADE TREES 0 EVERGREEN TREES 0 SHRUBS
NUMBER OF PLANTS PROVIDED	5 SHADE TREES 0 EVERGREEN TREES 0 SUBSTITUTION TREES 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	11 SHADE TREES 0 EVERGREEN TREES 0 SUBSTITUTION TREES 0 SHRUBS

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*Steph F...*  
 SIGNATURE OF DEVELOPER  
 DATE: 6/11/09

**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.

*R. JACOB HIKMAT*  
 SIGNATURE OF ENGINEER  
 DATE: 6/11/09

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

*Jim Meyer*  
 SIGNATURE OF REVIEWER  
 DATE: 6/22/09

USED - NATURAL RESOURCE CONSERVATION SERVICE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

*John D. Robertson*  
 SIGNATURE OF DISTRICT DIRECTOR  
 DATE: 6/22/09

APPROVED: DEPARTMENT OF PLANNING AND ZONING  
*[Signature]*  
 CHIEF, DEVELOPMENT ENGINEERING DIVISION (MAB)  
 DATE: 7/6/09

*[Signature]*  
 CHIEF, DIVISION OF LAND DEVELOPMENT  
 DATE: 7/6/09



**DEVELOPER'S/OWNER'S CERTIFICATE**  
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*Steph F...*  
 SIGNATURE OF DEVELOPER/OWNER  
 DATE: 6/11/09

date	MAY 04
project	03-084
illustration	MNT
scale	SAA
approval	SAA

no.	1	date	9-15-06
description	REVISION FOR LOT 1, REVERSE SITE AND LOCATION OF THE REMAINING WALL PERMITS	no.	1
revisions	REVISED PER PERMITS	date	12/10/06
	2	description	REVISED PER PERMITS FOR LOT 1
	3	description	REVISED PER PERMITS FOR LOT 1

**FINCHAM PROPERTY**  
 LOTS 1-3, OPEN SPACE LOT 4 & NON-BUILDABLE BULK PARCEL A  
 TAX MAP 31 PARCEL 286  
 2ND ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND  
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