

SHEET INDEX	
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2	EROSION & SEDIMENT CONTROL, NOTES AND DETAILS

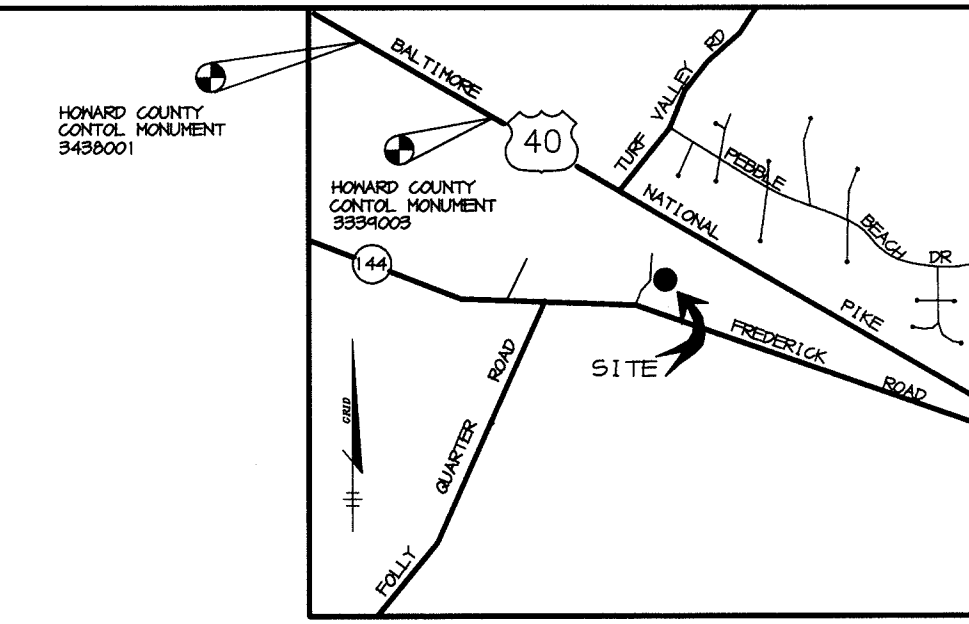
**GENERAL NOTES**

- SUBJECT PROPERTY IS ZONED R-ED PER 10/18/93 COMPREHENSIVE ZONING PLAN.
- THE TOTAL AREA INCLUDED IN THIS SUBMISSION IS: 18,971 sq.ft.
- THE NUMBER OF LOTS INCLUDED IN THIS SUBMISSION IS: 2
- IMPROVEMENT TO PROPERTY: SINGLE FAMILY DETACHED
- ALL WATER LINES SHALL BE CONSTRUCTED A MINIMUM OF 42" COVER BELOW FINISHED GRADE.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, 1.0, STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION, LATEST AMENDMENTS.
- APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN FROM APPROVED WATER AND SEWER PLANS CONTRACT #24-3407-D AND APPROVED ROAD CONSTRUCTION PLANS F-95-99. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO CONTRACTOR'S OPERATION SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL TEST PIT EXISTING UTILITIES AT LEAST (5) DAY BEFORE STARTING WORK SHOWN ON THESE DRAWINGS TO VERIFY THEIR LOCATION AND ELEVATION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF LOCATION OF UTILITIES IS OTHER THAN SHOWN.
- CONTRACTOR TO NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS:  
 BELL ATLANTIC TELEPHONE COMPANY 410-725-9976  
 HOWARD COUNTY BUREAU OF UTILITIES 410-313-4400  
 AT&T CABLE LOCATION DIVISION 410-343-3553  
 BALTIMORE GAS & ELECTRIC COMPANY 410-685-0123  
 STATE HIGHWAY ADMINISTRATION 410-531-5533  
 HOWARD COUNTY BUREAU OF CONSTRUCTION INSPECTION 410-313-1080  
 DIVISION (24 HOURS NOTICE PRIOR TO COMMENCEMENT OF WORK)
- THE CONTRACTOR TO NOTIFY "MISS UTILITY" AT 1-800-251-7111 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK.
- EX. TOPO IS FINAL GRADES FROM F-95-99. CONTOURS AT 2 FOOT INTERVALS.
- ALL PLAN DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
- THE DEVELOPER IS RESPONSIBLE FOR THE ACQUISITION OF ALL EASEMENTS, RIGHTS AND/OR RIGHTS-OF-WAY THAT MAY BE REQUIRED FOR THE SEDIMENT AND EROSION CONTROL PRACTICES, STORM WATER MANAGEMENT PRACTICES AND THE DISCHARGE OF STORM WATER ONTO OR ACROSS ADJACENT OR DOWNSTREAM PROPERTIES INCLUDED IN THIS PLAN. HE IS ALSO RESPONSIBLE FOR THE ACQUISITION OF ALL EASEMENTS, RIGHTS AND/OR WORK ON ADJACENT PROPERTIES INCLUDED IN THIS PLAN.
- SEE DEPARTMENT OF PLANNING AND ZONING FILE NO.'S F-93-65, F-93-115, WP-92-114, 5-94-02, P94-24, AND F-95-99, PB-291.
- STORMWATER MANAGEMENT IS PROVIDED FOR THIS DEVELOPMENT UNDER F-95-99.
- ANY DAMAGE TO THE COUNTY'S RIGHT-OF-WAY SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.
- PUBLIC WATER AND SEWER FOR THIS LOT IS PROVIDED UNDER CONTRACT DRAWINGS NO. 24-3407-D.
- CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES, AND SAFETY PRECAUTIONS AND PROGRAMS.
- DRIVEWAY ENTRANCE TO BE PER HOWARD COUNTY STANDARD DETAIL R-6.03.
- EXISTING SEDIMENT CONTROL DEVICES MAY NEED TO BE ADJUSTED DURING HOUSE CONSTRUCTION.

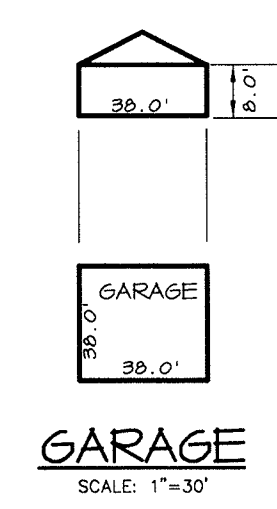
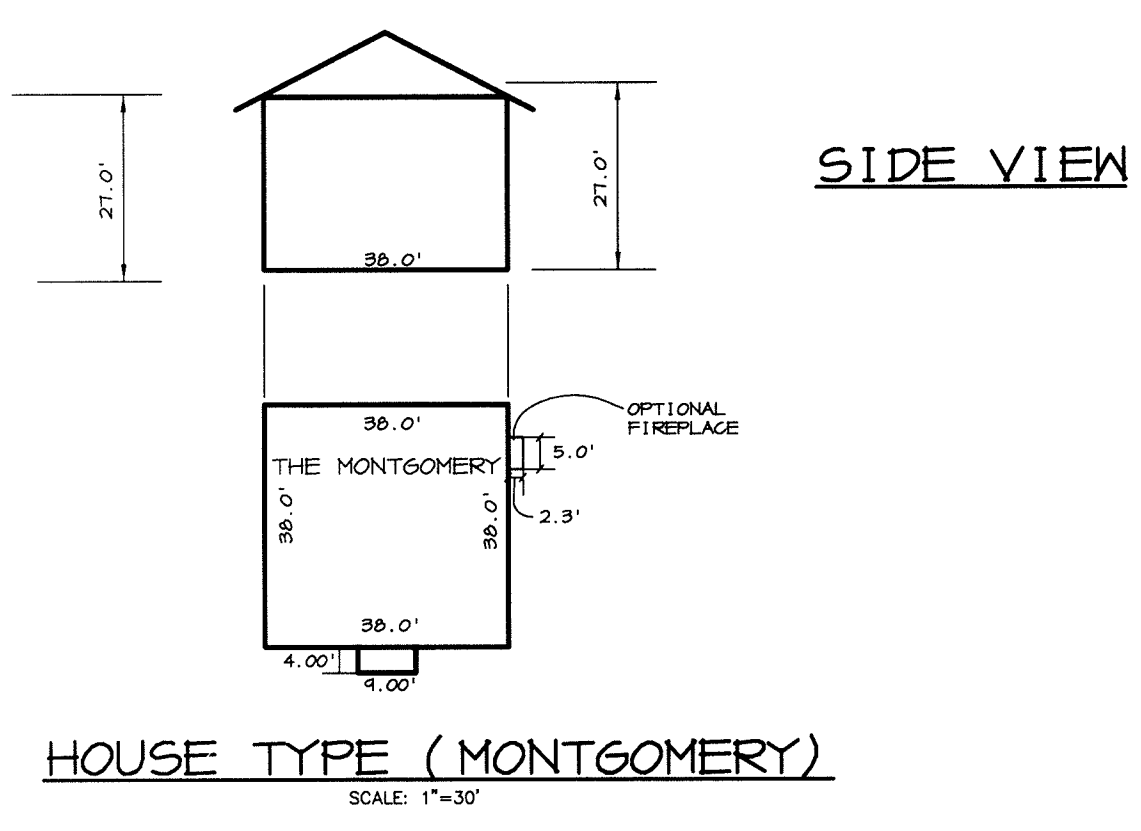
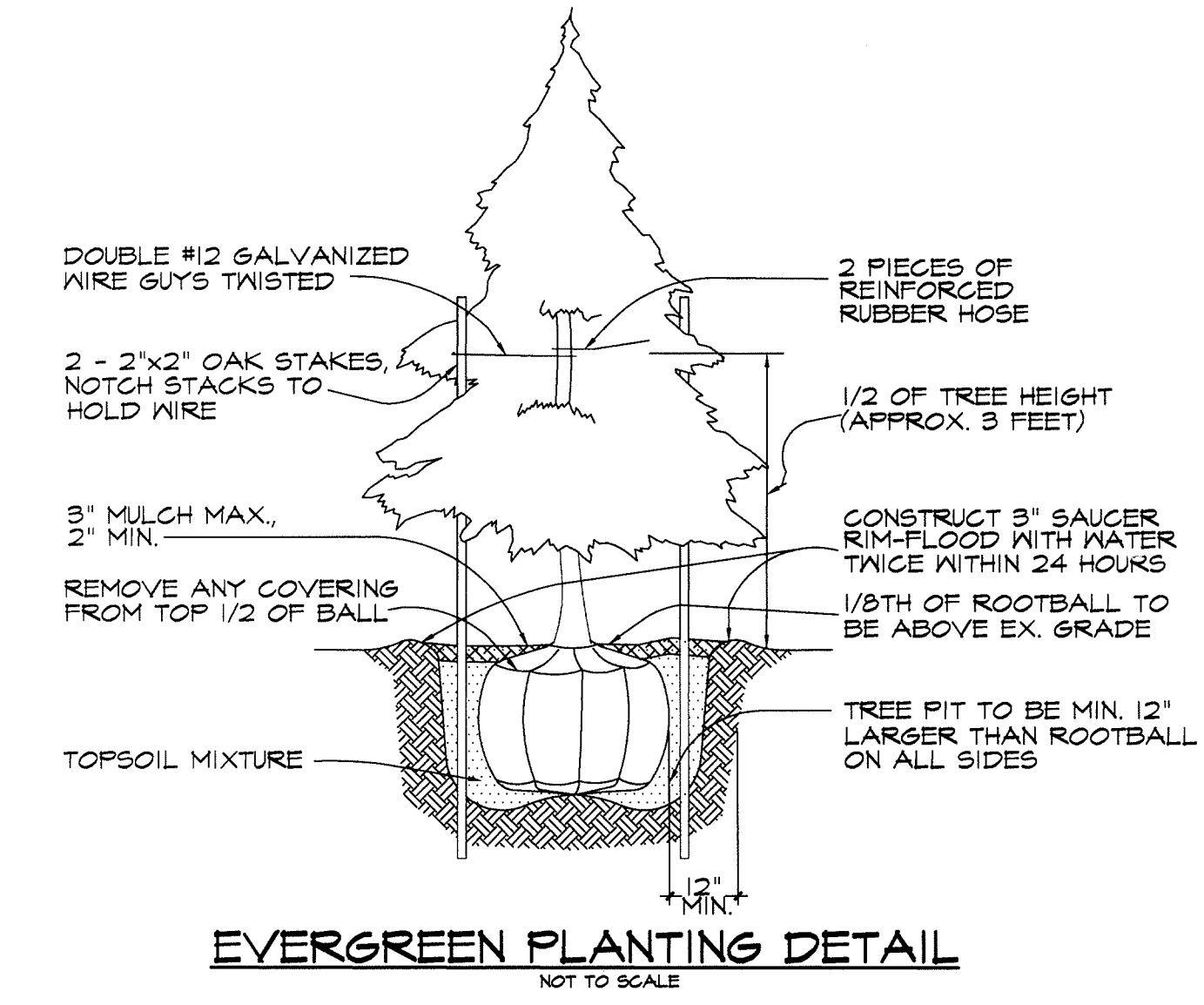
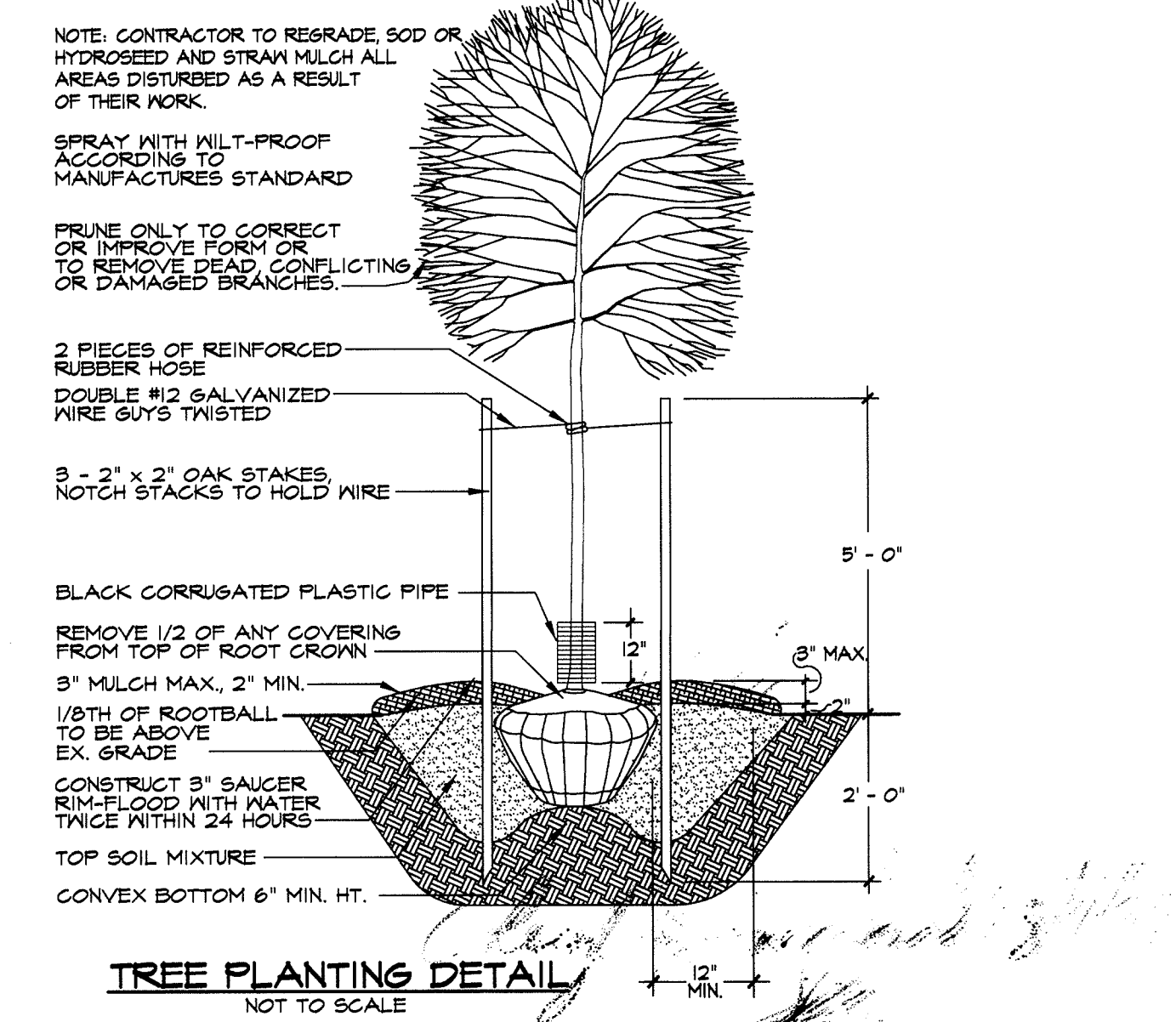
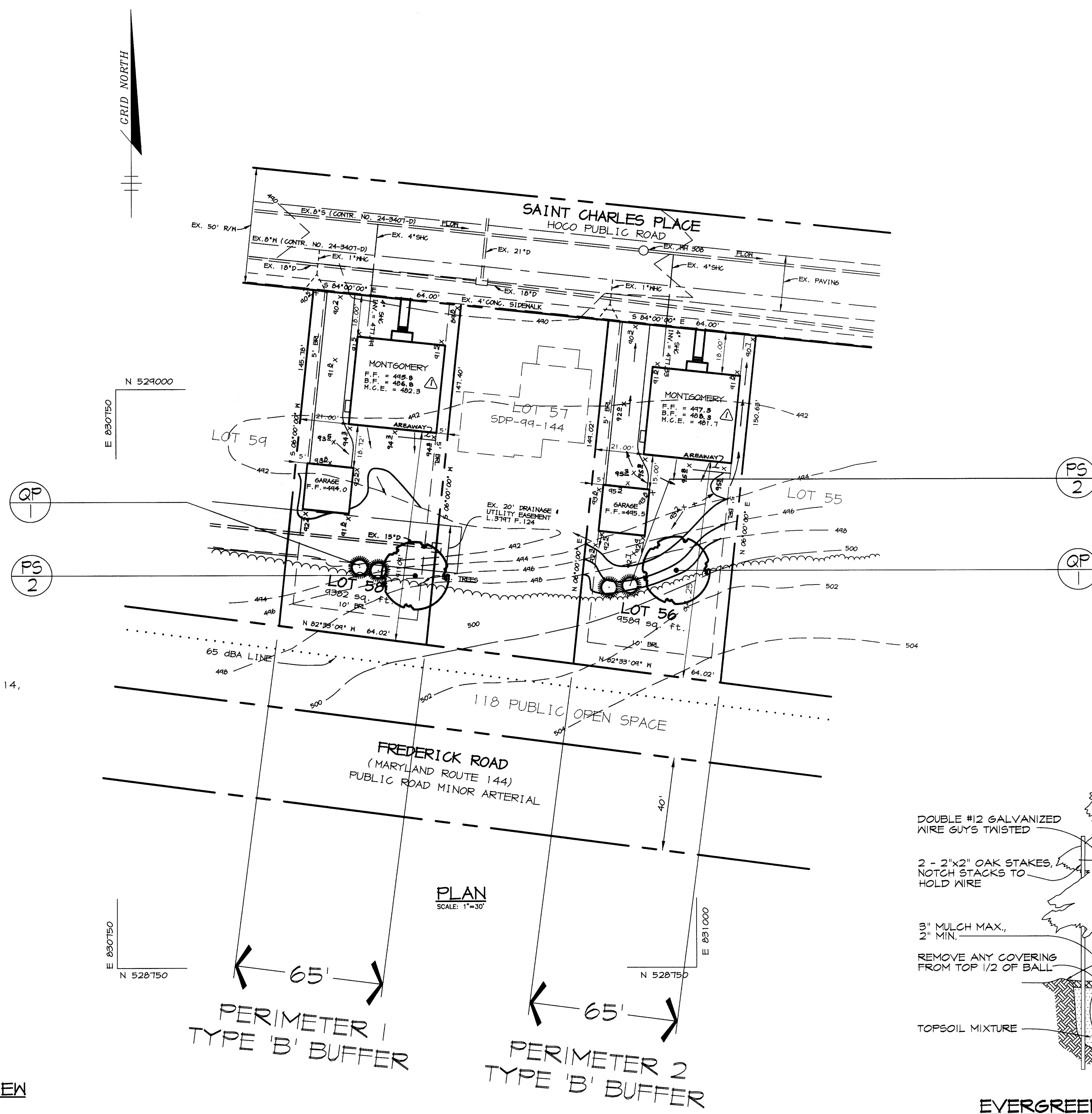
**BENCHMARKS**

**BM201**  
REBAR AND CAP SET FLUSH WITH GROUND CENTERLINE STATION 0+64 MD RTE 144 (FREDERICK RD) 75' LEFT OF CENTERLINE

**BM204**  
REBAR AND CAP SET FLUSH WITH GROUND CENTERLINE STATION 17+67 MD RTE 144 (FREDERICK RD) 422' LEFT OF CENTERLINE



**VICINITY MAP**  
SCALE: 1" = 2000'



- NOTES:**
- THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE.
  - "FINANCIAL SURETY FOR THE REQUIRED LANDSCAPING MUST BE POSTED AS PART OF THE GRADING PERMIT IN THE AMOUNT OF \$ 1200.
  - CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES, AND SAFETY PRECAUTIONS AND PROGRAMS.

**DEVELOPER'S/BUILDER'S CERTIFICATE:**  
I/WE CERTIFY THAT THE LANDSCAPING SHOWN ON THIS PLAN WILL BE DONE ACCORDING TO THE PLAN, SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE HOWARD COUNTY LANDSCAPE MANUAL. I/WE FURTHER CERTIFY THAT UPON COMPLETION A CERTIFICATION OF LANDSCAPE INSTALLATION ACCOMPANIED BY AN EXECUTED ONE YEAR GUARANTEE OF PLANT MATERIAL SHALL BE SUBMITTED TO THE DEPARTMENT OF PLANNING AND ZONING.

*Shaw J. G. [Signature]* 8/3/99  
NAME DATE

ADDRESS CHART	
LOT NUMBER	STREET ADDRESS
LOT 56	3116 SAINT CHARLES PLACE
LOT 58	3108 SAINT CHARLES PLACE

SUBDIVISION NAME: TERRA MARIA		SECT./AREA: -	LOT: 56 & 58
PLAT #: 11996-11997	BLOCK #: 23	ZONE: R-ED	TAX MAP NO.: 16
WATER CODE: J01, H07		SEWER CODE: 5992000	

**APPROVED**  
PLANNING BOARD  
OF HOWARD COUNTY  
DATE 29 July 1999

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.  
*[Signature]* 8/10/99  
DIRECTOR DATE  
*[Signature]* 8/5/99  
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE  
*[Signature]* 8/9/99  
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

11-17-99	MODIFIED FF BLEV. ON LOT 56 & 58, ADJUSTED GARAGE
DATE NO.	REVISION
OWNER / DEVELOPER CATOCTIN HOMES INC. P.O. BOX 512 ELLCOTT CITY, MD 21041 (410) 772-5804	
PROJECT <b>TERRA MARIA</b> LOTS 56 & 58	
AREA TAX MAP NO. 16 PARCEL 716 2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND	
TITLE <b>SITE DEVELOPMENT PLAN / LANDSCAPE PLAN</b>	

**RIEMER MUEGGE & ASSOCIATES, INC.**  
ENGINEERING • ENVIRONMENTAL SERVICES • PLANNING • SURVEYING  
8818 Centre Park Drive, Columbia, Maryland 21045  
tel 410.997.8900 fax 410.997.9282

DATE  
  
 DESIGNED BY: KCB  
 DRAWN BY: KCB  
 PROJECT NO: 99157/SDP1.DWG  
 DATE: AUGUST 3, 1999  
 SCALE: AS SHOWN  
 DRAWING NO. 1 OF 2

**TEMPORARY SEEDING NOTES**

Apply to graded or cleared areas likely to be redistributed 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. If not previously loosened.

**Soil Amendments** - Apply 600 lbs. per acre 10-10-10 fertilizer (14 lbs. per 1000 sq. ft.).

**Seeding** - For periods March 1 thru April 30 and from August 15 thru November 15, seed with 2-1/2 bushels per acre of annual ryegrass (3.2 lbs. per 1000 sq. ft.). For the period May 1 thru July 31, seed with 9 lbs. per acre of creeping lovegrass (0.07 lbs. per 1000 sq. ft.). For the period November 16 thru February 28, protect site by applying 2 tons per acre of well conditioned straw mulch and seed as soon as possible in the spring, or use sod.

**Mulching** - Apply 1-1/2 to 2 tons per acre (10 to 20 lbs. per 1000 sq. ft.) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 210 gal. per acre (5 gal. per 1000 sq. ft.) of emulsified asphalt on flat areas. On slopes, 8 ft. or higher, use 341 gal. per acre (8 gal. per 1000 sq. ft.) for anchoring.

Refer to the 1984 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL. For notes and methods not covered.

**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:

- Preferred - Apply 2 tons per acre dolomitic limestone (42 lbs. per 1000 sq. ft.) and 600 lbs. per acre 10-10-10 fertilizer (14 lbs. per 1000 sq. ft.) before seeding. Harrow or disc into upper three inches of soil. At time of seeding, apply 400 lbs. per acre 30-0-0 ureaform fertilizer (4 lbs. per 1000 sq. ft.).
- Acceptable - Apply 2 tons per acre dolomitic limestone (42 lbs. per 1000 sq. ft.) and 1000 lbs. per acre 10-10-10 fertilizer (28 lbs. per 1000 sq. ft.) before seeding. Harrow or disc into upper three inches of soil.

**Seeding** - For the period March 1 thru April 30 and from August 15 thru October 15, seed with 60 lbs. per acre (1.4 lbs. per 1000 sq. ft.) of Kentucky 31 Tall Fescue. For the period May 1 thru July 31, seed with 60 lbs. per acre (1.4 lbs. per 1000 sq. ft.) of Kentucky 31 Tall Fescue. For the period November 16 thru February 28, protect site by applying 2 tons per acre of well conditioned straw mulch and seed as soon as possible in the spring.

**Mulching** - Apply 1-1/2 to 2 tons per acre (10 to 20 lbs. per 1000 sq. ft.) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 210 gal. per acre (5 gal. per 1000 sq. ft.) of emulsified asphalt on flat areas. On slopes, 8 ft. or higher, use 341 gal. per acre (8 gal. per 1000 sq. ft.) for anchoring.

**Maintenance** - Inspect all seeded areas and make needed repairs, replacements and reseeds.

**STANDARD SEDIMENT CONTROL NOTES**

- 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 (319-1055).
- MAINTENANCE PERSONNEL AND SPECIAL OPERATIONS PERSONNEL MUST BE AVAILABLE TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE CONTROL AND REVISIONS THERETO.
- FOR ADEQUATE PERIMETER LANDSCAPE EDGE, DISTURBED AREAS AND PERMANENT TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN A 7 CALENDAR DAYS AND ALL SLOPES STEEPER THAN 3:1, B) 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
- ALL SEDIMENT TRAPS/BASINS SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND THE PERIMETER IN ACCORDANCE WITH VOL. 1, CHAPTER 7, OF THE HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE.
- ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDING, SOD, TEMPORARY SEEDING, AND MULCHING (SEC. 6). TEMPORARY STABILIZATION WITH MULCH ALONE SHALL ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHED OF GRASSES.
- 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.
- SITE ANALYSIS:
 

TOTAL AREA OF SITE	0.44 ACRES
AREA DISTURBED	0.29 ACRES
AREA TO BE ROOFED OR PAVED	0.14 ACRES
AREA TO BE VEGETATIVELY STABILIZED	0.15 ACRES
TOTAL CUT	200 CU. YARDS
TOTAL FILL	200 CU. YARDS
OFFSITE WASTE/BORROW AREA LOCATION	
- ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
- ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- 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.
- TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGTHS OR THAT WHICH SHALL BE BACK-FILLED AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER.
- SITE GRADING WILL BEGIN ONLY AFTER ALL PERIMETER SEDIMENT CONTROL MEASURES HAVE BEEN INSTALLED AND ARE IN A FUNCTIONING CONDITION.
- SEDIMENT WILL BE REMOVED FROM TRAPS WHEN ITS DEPTH REACHES CLEAN OUT ELEVATION SHOWN ON THE PLANS.
- CUT AND FILL QUANTITIES PROVIDED UNDER SITE ANALYSIS DO NOT REPRESENT BID QUANTITIES. THESE QUANTITIES DO NOT DISTINGUISH BETWEEN TOPSOIL, STRUCTURAL FILL OR EMBANKMENT MATERIAL, NOR DO THEY REFLECT CONSIDERATION OF UNDERCUTTINGS OR REMOVAL OF UNSUITABLE MATERIAL. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH SITE CONDITIONS WHICH MAY AFFECT THE WORK.

**SEQUENCE OF CONSTRUCTION**

- OBTAIN PERMITS.
- INSTALL STABILIZED CONSTRUCTION ENTRANCE, SILT FENCE, AND EARTH DIKE. (1 DAY)
- BEGIN HOME CONSTRUCTION AND GRADING.
- COMPLETE CONSTRUCTION. (6 MONTHS)
- UPON PERMISSION FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR REMOVE SEDIMENT CONTROL DEVICES AND STABILIZE. (1 DAY)

**SCHEDULE A - PERIMETER LANDSCAPE EDGE**

	ADJACENT TO PROPERTY	
	1 (LOT 58)	2 (LOT 56)
PERIMETER	B	B
LANDSCAPE TYPE	B	B
LINEAR FEET OF ROADWAY FRONTAGE/ PERIMETER	± 65'	± 65'
CREDIT FOR EXISTING VEGETATION (YES/NO, LINEAR FEET) (DESCRIBE BELOW IF NEEDED)	NO	NO
CREDIT FOR WALL, FENCE OR BERM (YES/NO, LINEAR FEET) (DESCRIBE BELOW IF NEEDED)	NO	NO
NUMBER OF PLANTS REQUIRED		
SHADE TREES	0	0
EVERGREEN TREES	0	0
SHRUBS	0	0
NUMBER OF PLANTS PROVIDED		
SHADE TREES	1	1
EVERGREEN TREES	2	2
SHRUBS	-	-
SURETY	\$600	\$600

**PLANT LIST**

SYMBOL	QTY.	SCIENTIFIC/COMMON NAME	SIZE	ROOT	SPACING	SURETY AMT. EACH	TOTAL SURETY
QP	2	QUERCUS PALUSTRIS PIN OAK	2 1/2" - 3" CAL	B&B	PLANT AS SHOWN	\$ 300	\$ 600
PS	4	PINUS STROBUS EASTERN WHITE PINE	5' - 6' HT.	B&B	PLANT AS SHOWN	\$ 150	\$ 600
						<b>\$ 1200</b>	

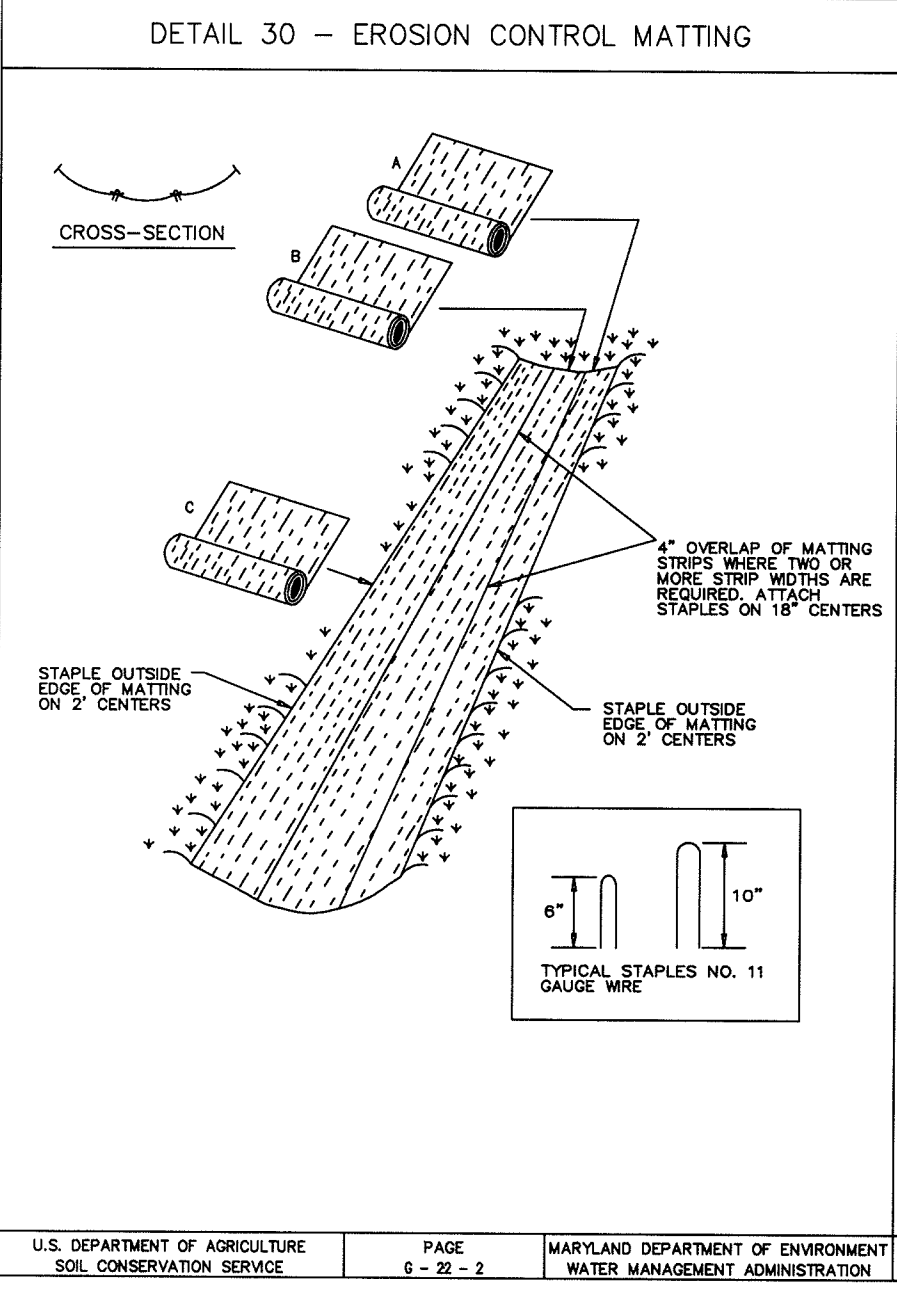
**PLANT LIST NOTES:**  
1) SURETY AMOUNT IS BASED ON REQUIRED LANDSCAPE MATERIAL ONLY

**PLANTING LEGEND**

PROP. SHADE TREE

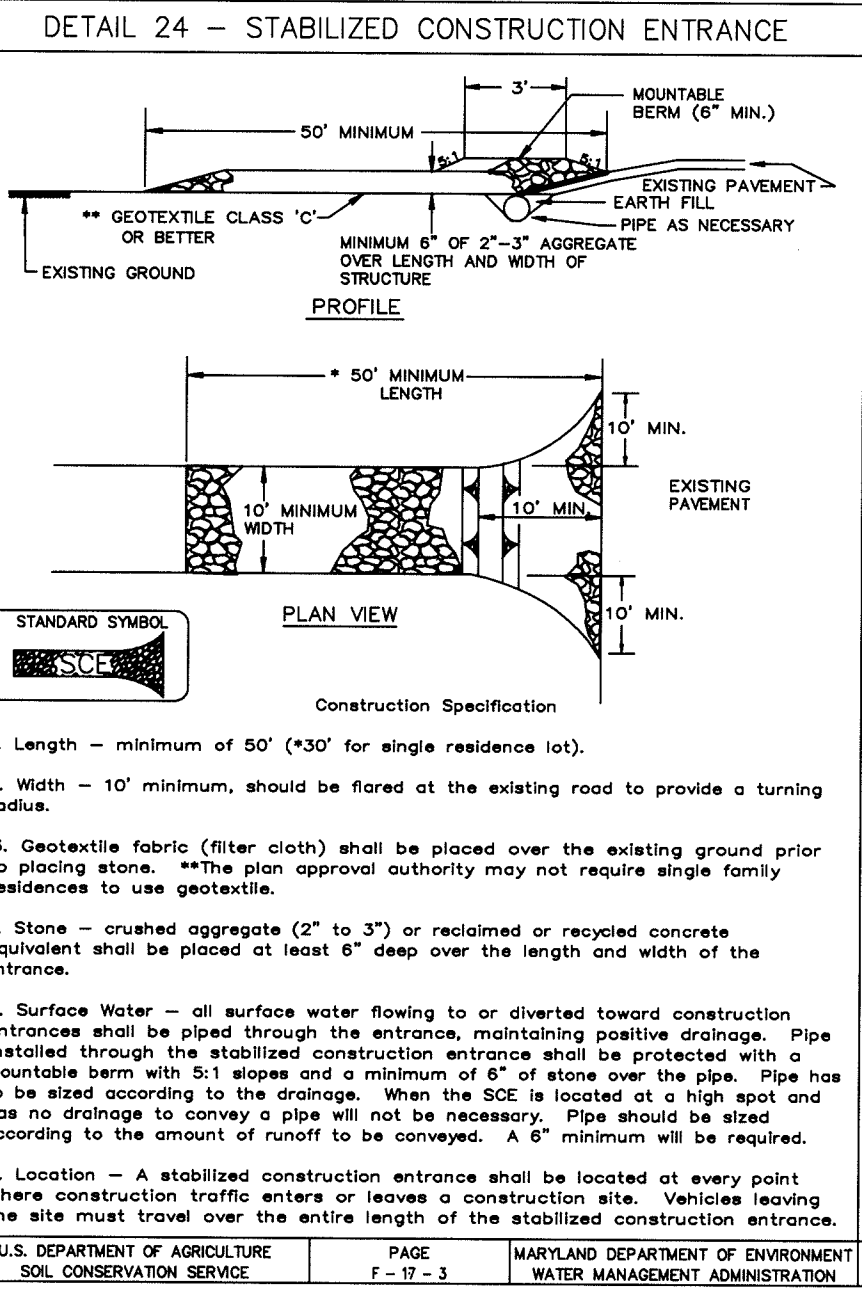
PROP. EVERGREEN TREE

EXISTING TREE LINE



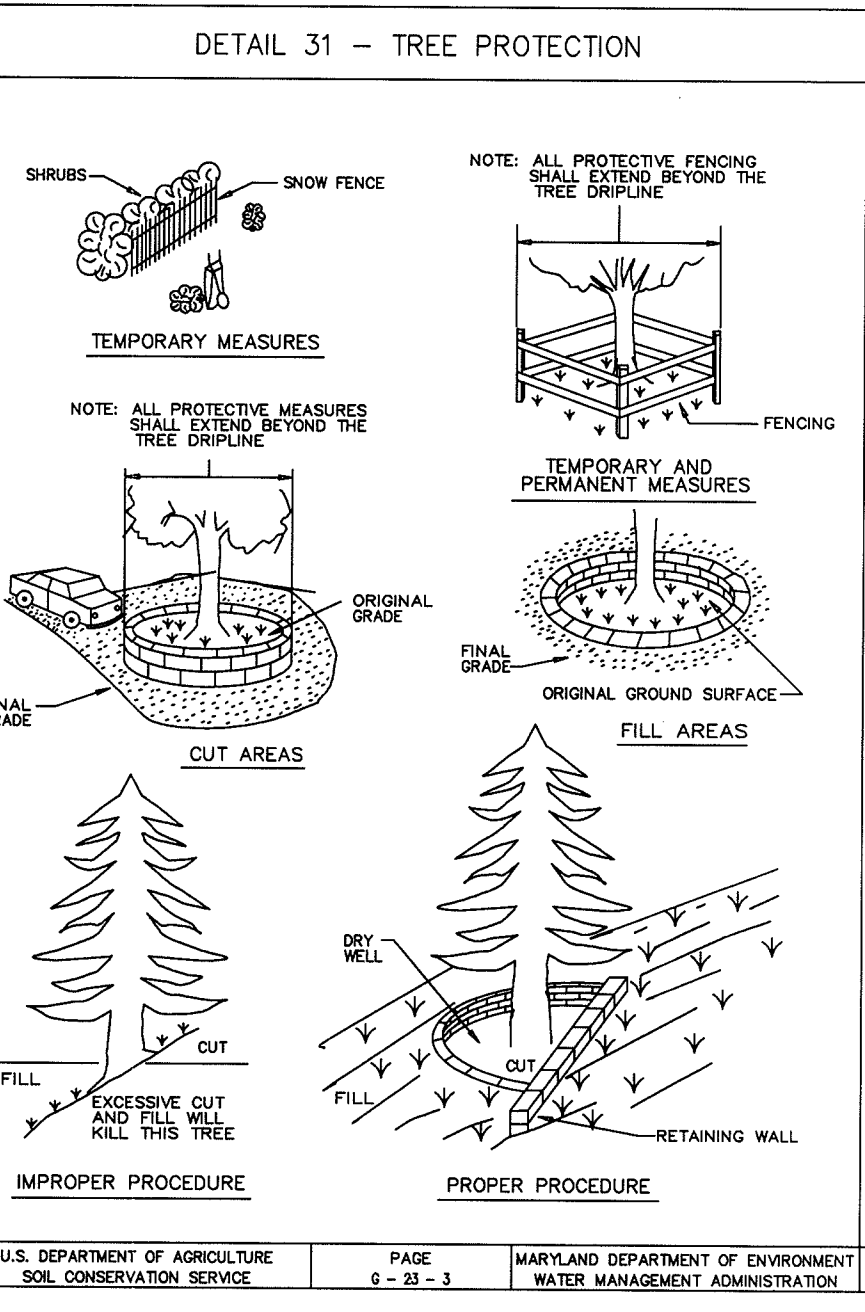
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MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION



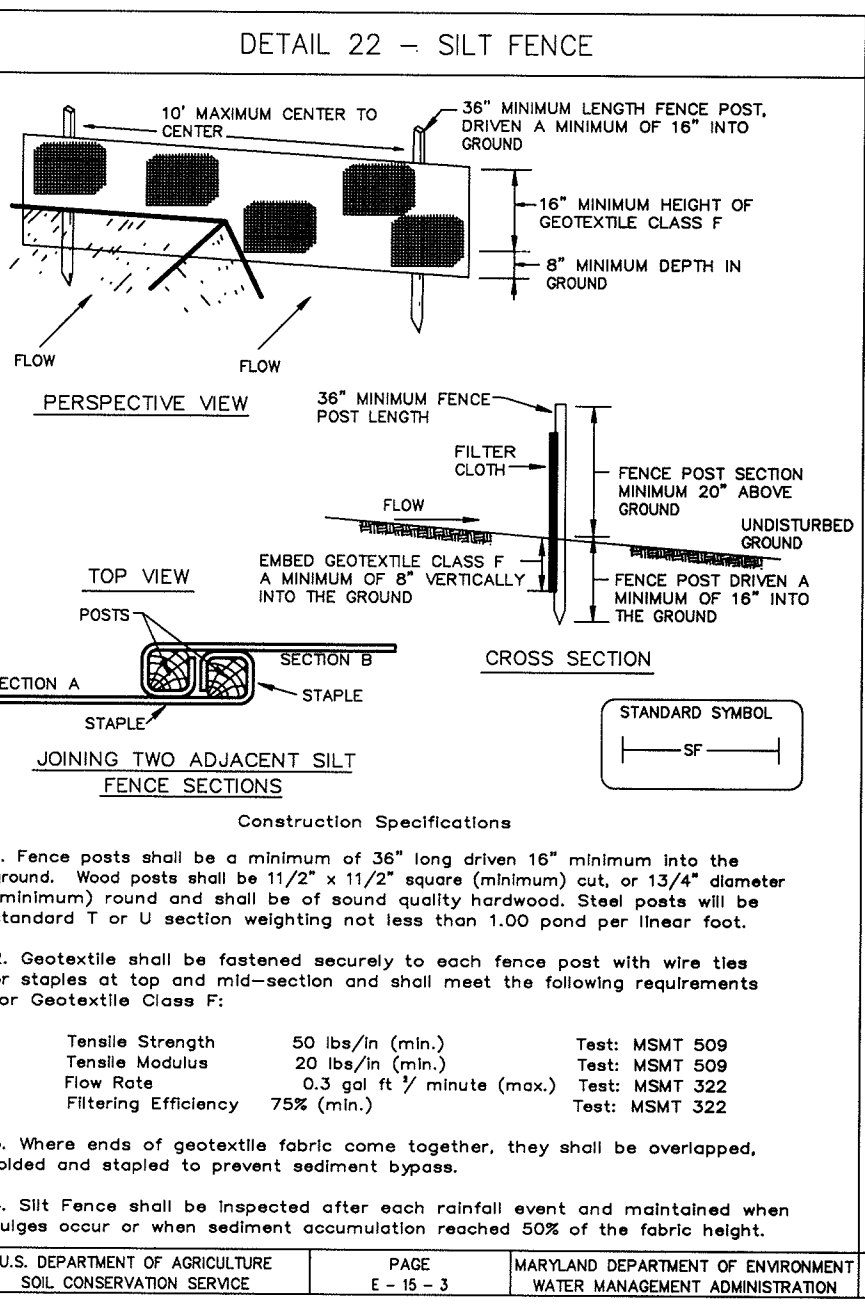
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MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION



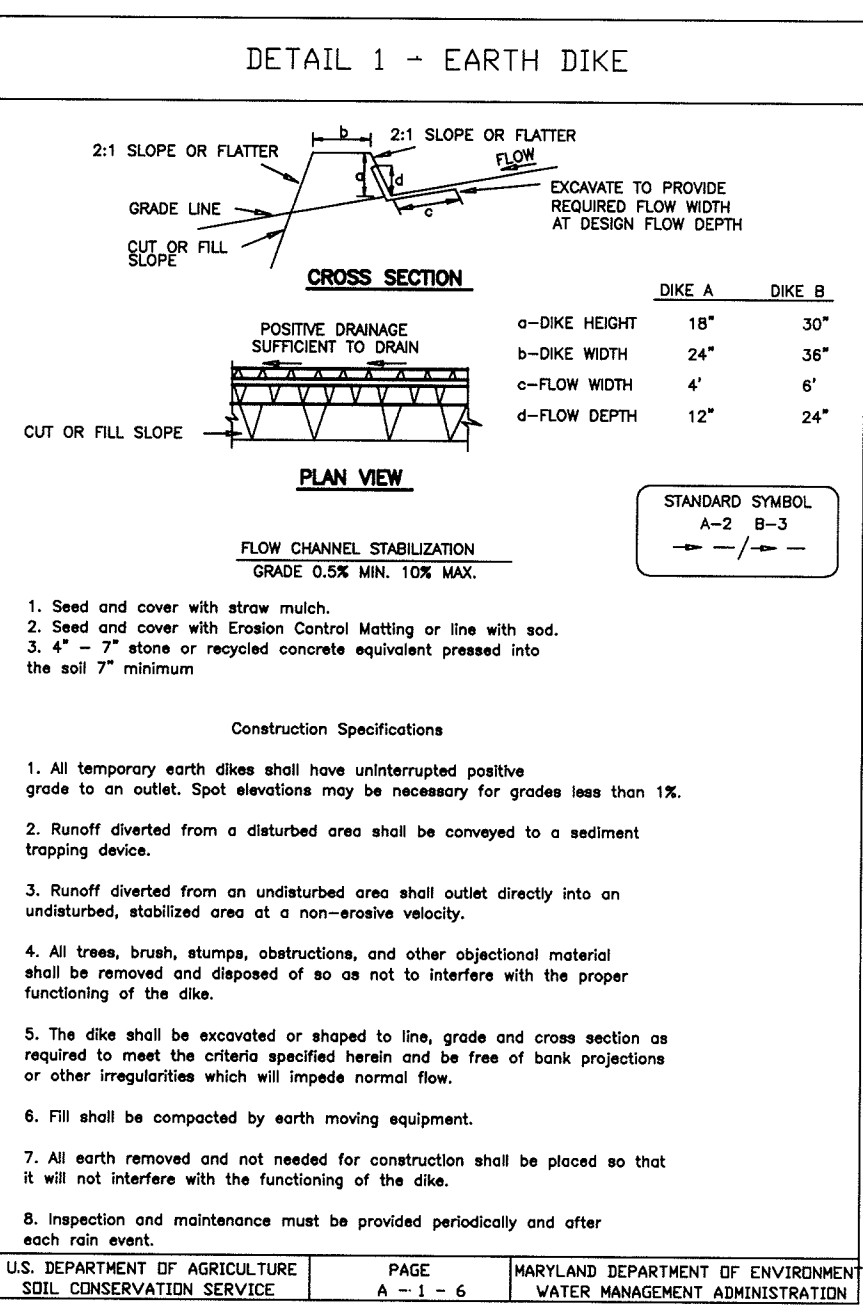
U.S. DEPARTMENT OF AGRICULTURE SOL CONSERVATION SERVICE PAGE 8-28-3

MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION



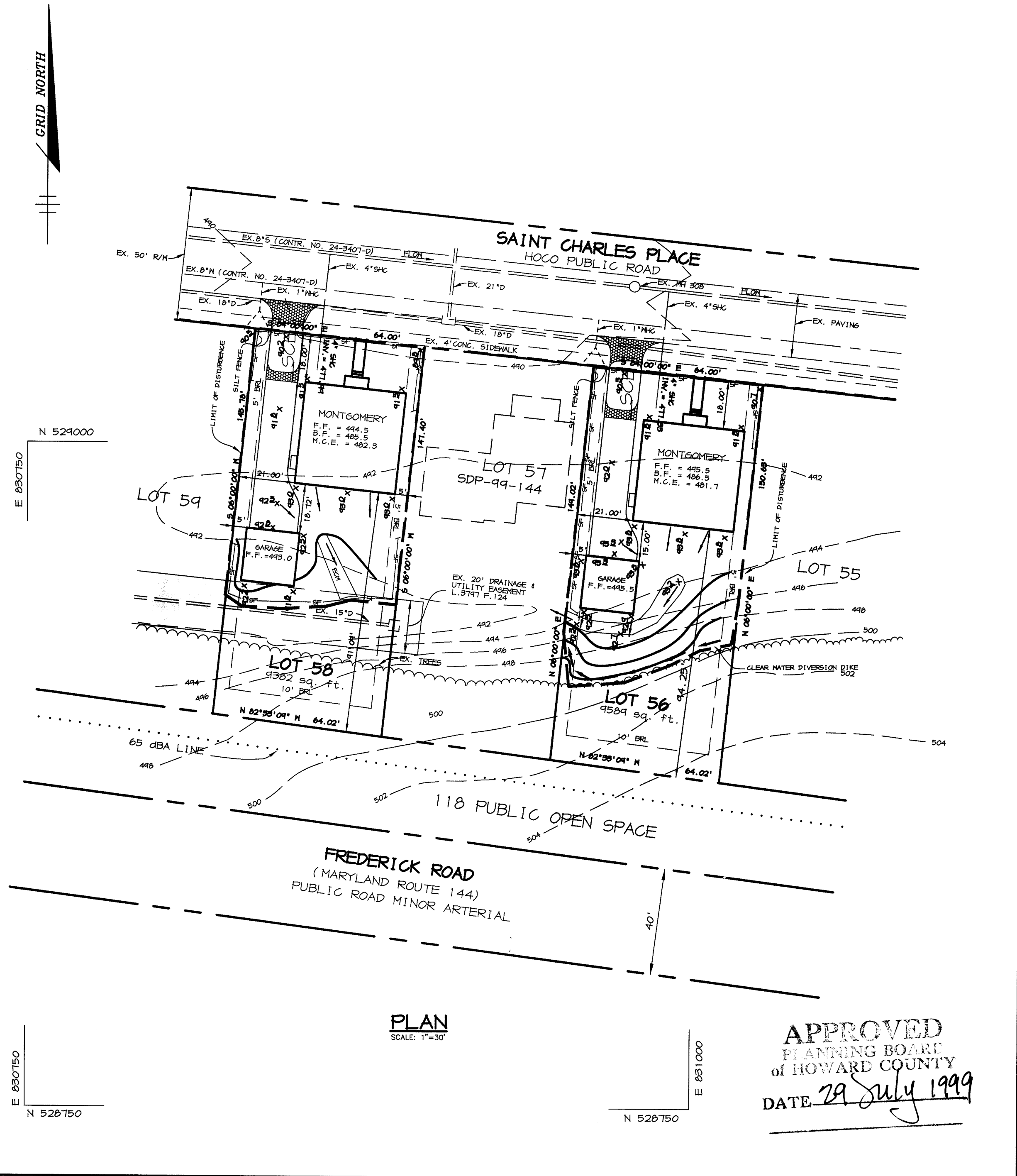
U.S. DEPARTMENT OF AGRICULTURE SOL CONSERVATION SERVICE PAGE 6-15-3

MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION



U.S. DEPARTMENT OF AGRICULTURE SOL CONSERVATION SERVICE PAGE A-1-6

MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION



BY THE DEVELOPER:

I/WE 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 INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT.

*Arthur E. Muegge* 8/3/99  
DEVELOPER DATE

BY THE ENGINEER:

I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

*Arthur E. Muegge* 8-3-99  
ENGINEER DATE

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SOIL EROSION AND SEDIMENT CONTROL.

*Charles Simmons* 8/99  
NATURAL RESOURCES CONSERVATION SERVICE DATE

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

*John P. Butler* 8/1/99  
HOWARD SOIL CONSERVATION DISTRICT DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

*John P. Butler* 8/1/99  
DIRECTOR DATE

*Cindy Hamilton* 8/1/99  
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

*Cindy Hamilton* 8/1/99  
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

OWNER / DEVELOPER

CATOCTIN HOMES INC.  
P.O. BOX 512  
ELLICOTT CITY, MD 21041  
(410) 772-5804

PROJECT

TERRA MARIA  
LOTS 56 & 58

AREA TAX MAP NO. 16 PARCEL 416  
2nd ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

TITLE

EROSION & SEDIMENT CONTROL/  
NOTES AND DETAILS

**RIEMER MUEGGE & ASSOCIATES, INC.**  
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8818 Centre Park Drive, Columbia, Maryland 21045  
tel 410.997.8900 fax 410.997.9282

DATE

DESIGNED BY: KCB  
DRAWN BY: KCB  
PROJECT NO: 99157/  
SDP2.DWG  
DATE: AUGUST 3, 1999  
SCALE: AS SHOWN  
DRAWING NO. 2 OF 2

*Arthur E. Muegge* #8707  
ARTHUR E. MUEGGE #8707