

# STORM DRAINS & STORMWATER FINAL PLAN

## THE GABLES AT NEW YEARS GIFT

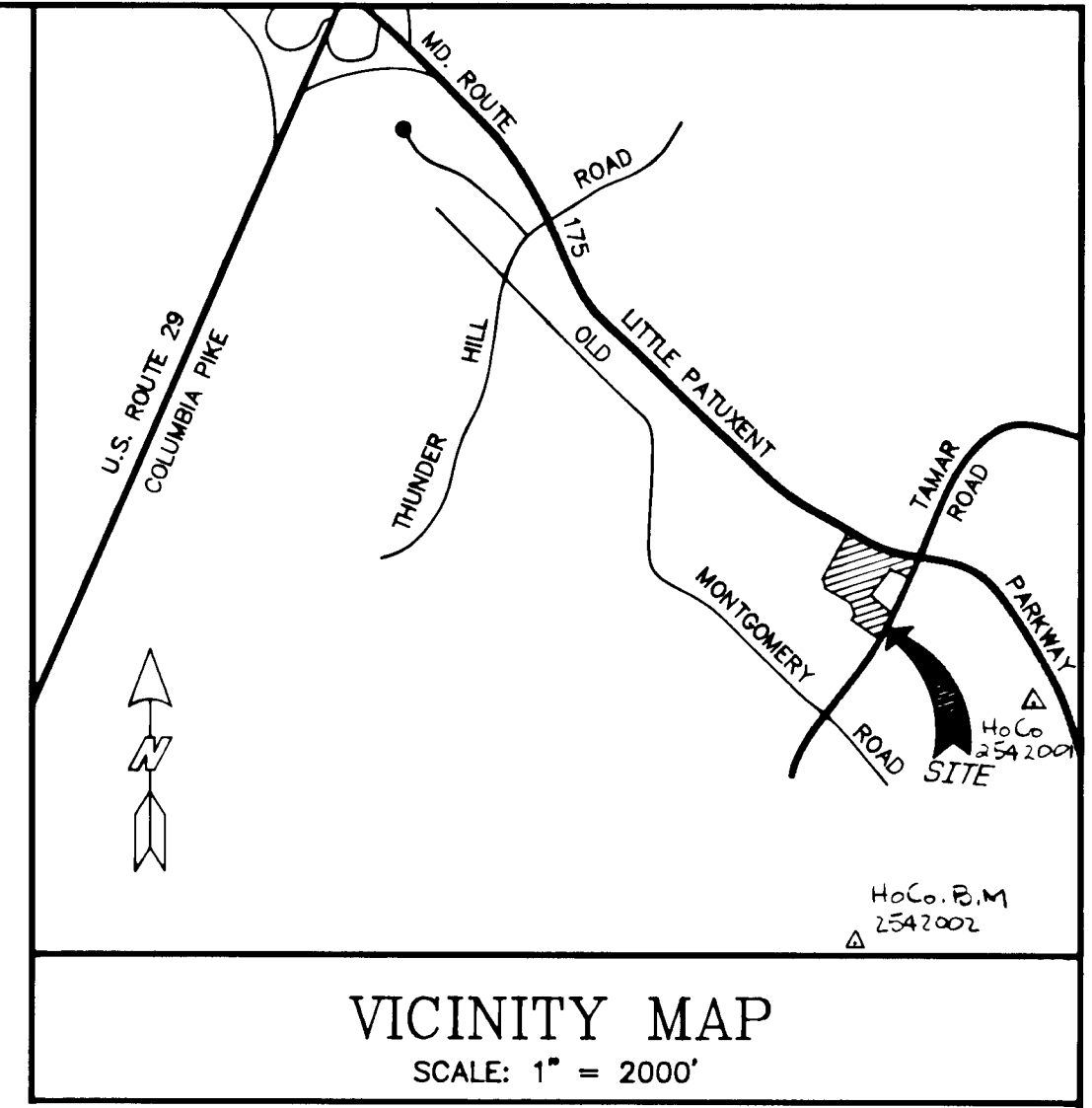
### SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND.

#### GENERAL NOTES

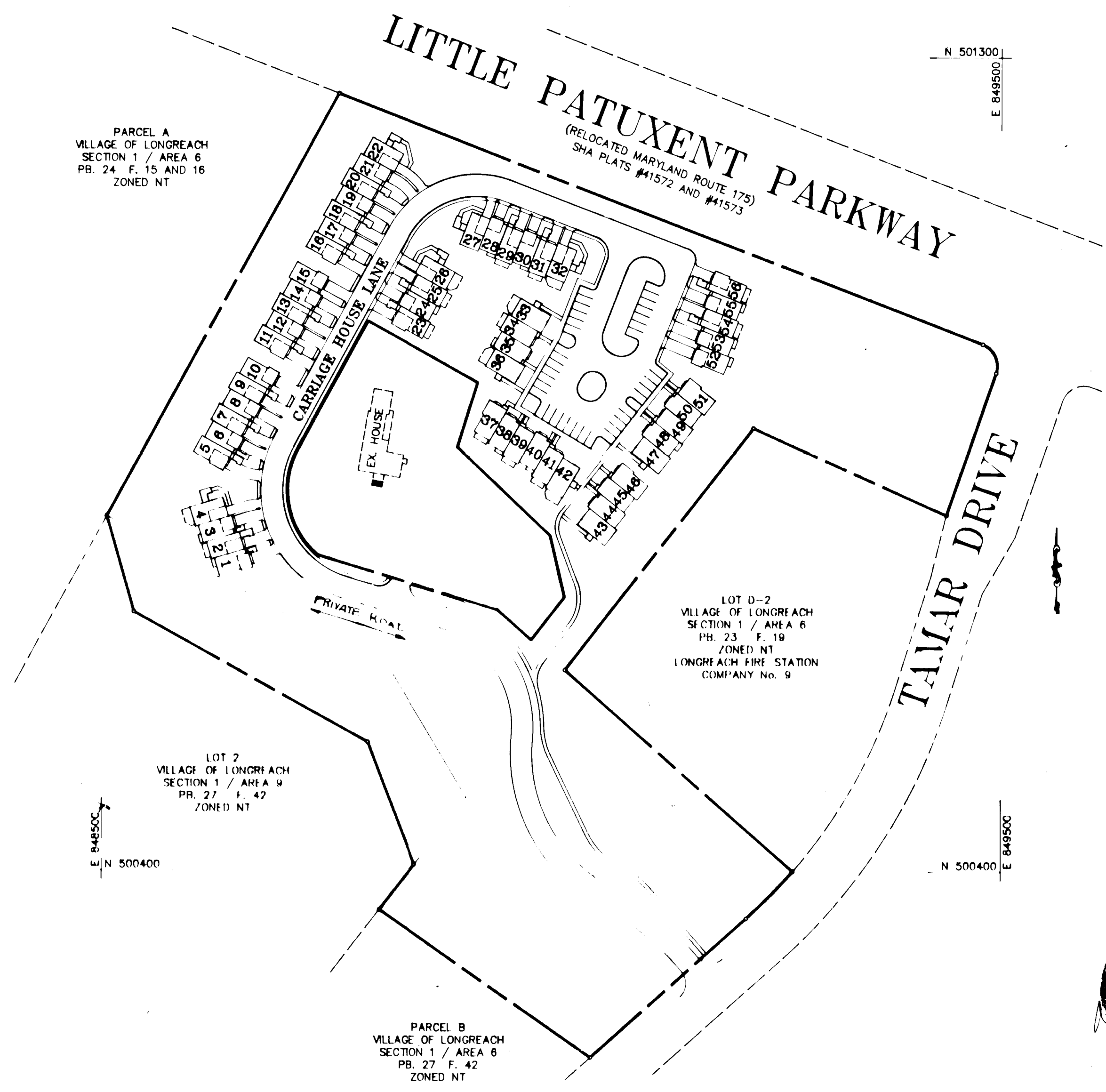
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS, AND SPECIFICATIONS OF HOWARD COUNTY.
- APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO CONTRACTOR'S OPERATION SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL TEST PIT EXISTING UTILITIES AT LEAST FIVE (5) DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS.
- CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES AT LEAST FIVE (5) DAYS BEFORE STARTING WORK ON THESE DRAWINGS:
 

MISS UTILITY-	1-800-257-7777
BELL TELEPHONE SYSTEM-	393-3649
LONG DISTANCE CABLE DIVISION-	393-3553 or 3553
BALTIMORE GAS AND ELECTRIC CO.-	539-8000 ext. 691
COLONIAL PIPELINE-	795-1390
HOWARD COUNTY BUREAU OF UTILITIES-	313-2366
HOWARD COUNTY CONSTRUCTION INSPECTION DIVISION-	313-1880
(24 HOURS NOTICE PRIOR TO COMMENCEMENT OF WORK)	
- ALL INLETS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOWARD COUNTY STANDARDS.
- ALL STREET CURB RETURNS SHALL HAVE A 35.0' RADIUS UNLESS OTHERWISE NOTED.
- STORM DRAIN TRENCHES WITHIN THE ROAD RIGHT-OF-WAY SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH HOWARD COUNTY DESIGN MANUAL, VOLUME IV STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION.
- TRAFFIC CONTROL DEVICES, MARKINGS, AND SIGNING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). ALL STREET AND REGULATORY SIGNS SHALL BE IN PLACE PRIOR TO THE PLACEMENT OF ANY ASPHALT.
- PIPE SHALL NOT BE INSTALLED BY THE CONTRACTOR UNTIL THE LENGTH CALLED FOR AT EACH STATION HAS BEEN APPROVED BY THE ENGINEER IN THE FIELD.
- DESIGNED TRAFFIC SPEED IN ACCORDANCE WITH THE AMERICAN ASSOCIATION OF STATE HIGHWAY OFFICIAL STANDARDS.
 

ALL PRIVATE ROADS = 25 M.P.H.
- ALL ELEVATIONS SHOWN ARE BASED ON U.S.C. AND G.S. MEAN SEA LEVEL DATUM, 1929
- ALL FILL AREAS WITHIN THE ROADWAY AND UNDER STRUCTURES TO BE COMPACTED TO A MINIMUM OF 95% COMPACTION.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
- PROFILE STATIONS SHALL BE ADJUSTED AS NECESSARY TO CONFORM TO PLAN DIMENSIONS.
- SUBJECT PROPERTY ZONED NT-RS-A-8 PER COMPREHENSIVE ZONING PLAN DATED 8-2-85
- TOPOGRAPHY WAS FIELD RUN BY CLARK, FINEFROCK, AND SACKETT, INC. ON OCTOBER 7, 1991.
- NO PIPE SHALL BE LAID UNTILL LINES OF EXCAVATION HAVE BEEN BROUGHT WITHIN 6" OF FINISHED GRADE.
- ALL STORM DRAIN PIPE BEDDING SHALL BE AS SHOWN IN FIG. 11.4 VOLUME 1 OF HOWARD COUNTY DESIGN MANUAL UNLESS OTHERWISE NOTED.
- SEE DEPARTMENT OF PLANNING AND ZONING FILE Nos.: S-11-01, P-92-10 WP 91-20
- LIGHT POLES AND FIXTURES FOR STREET LIGHTS SHALL BE IN ACCORDANCE WITH THE LATEST HOWARD COUNTY DESIGN MANUAL, VOLUME III, ROADS AND BRIDGES.
- ALL SIDEWALKS AND SIDEWALK RAMPS SHALL COMPLY WITH ADA REQUIREMENTS



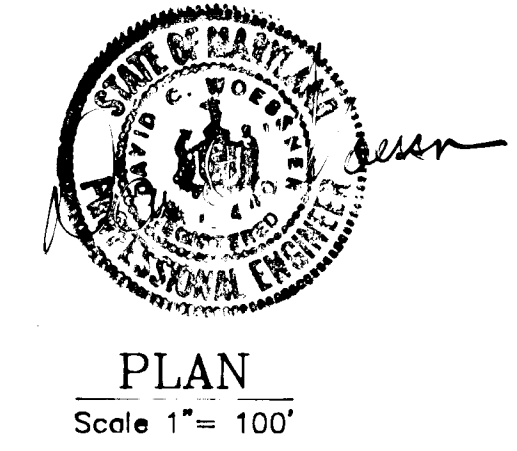
SHEET INDEX	
SHT. NO.	DESCRIPTION
1 OF 9	TITLE SHEET
2 OF 9	STORM DRAIN PLAN
3 OF 9	STORM DRAIN PROFILE
4 OF 9	GEADING - SEDIMENT CONTROL PLAN
5 OF 9	EXIST DRAINAGE AREA MAP
6 OF 9	PROPOSED DRAINAGE AREA MAP
7 OF 9	SOILS MAP
8 OF 9	DETAIL SHEET
9 OF 9	SEDIMENT CONTROL DETAIL SHEET



STRUCTURE SCHEDULE						
STRUCTURE No.	STRUCTURE TYPE	INVERT IN	INVERT OUT	TOP ELEVATION	REMARKS	LOCATION
I-1	A-5	409.00	408.70	418.07	HO. CO. STD. SD-4.01	STA 7+17 12' LEFT
I-2	A-5	413.60	419.09	419.09	HO. CO. STD. SD-4.01	STA 13+72 12' LEFT
I-3	A-5	-	414.55	418.35	HO. CO. STD. SD-4.01	STA 14+67 12' LEFT
I-4	A-5	-	414.30	418.19	HO. CO. STD. SD-4.01	N 501060.55 E 849083.92
I-5	A-5	386.90	386.80	393.56	HO. CO. STD. SD-4.01	N 500220.17 E 849074.31
I-6	A-5	389.55	-	395.76	HO. CO. STD. SD-4.01	N 500327.11 E 849197.81
I-7	YARD INLET	-	408.85	411.60	HO. CO. STD. SD-4.14	N 500824.22 E 848563.29
I-8	MODIFIED SHALLOW MH	-	406.75	410.33	HO. CO. STD. G-5.05	N 500575.21 E 848842.01
I-9	A-10	390.45	390.41	396.83/396.53	HO. CO. STD. SD-4.02	STA 0+72 12' LEFT
M-1	STANDARD	409.95	409.70	429.76	HO. CO. STD. G-5.12	STA 8+60 5' LEFT
M-2	STANDARD	411.85	411.70	424.38	HO. CO. STD. G-5.12	EXISTING STRUCTURE
M-3	STANDARD	386.5+	385.9+	393.10	HO. CO. STD. G-5.12	EXISTING STRUCTURE
M-4	STANDARD	389.4+	389.3+	395.50	HO. CO. STD. G-5.12	N 500714.28 E 848624.91
M-5	STANDARD	408.20	407.70	414.00	HO. CO. STD. G-5.12	N 500700.28 E 848732.58
S-1	CONCRETE END SECTION	-	407.00	-	HO. CO. STD. SD-5.52	N 500678.82 E 848652.58
S-2	CONCRETE END SECTION	-	407.00	-	HO. CO. STD. SD-5.52	N 500627.82 E 848676.29
S-3	CONCRETE END SECTION	-	405.50	-	HO. CO. STD. SD-5.52	N 500535.12 E 848656.43

**BENCHMARK TABLE NAD 27**  
 HO CO 2542001 ELEVATION 426.971 CONCRETE MONUMENT MD RTE 175 AT OLD MONTGOMERY RD.  
 HO CO 2542002 ELEVATION 363.638 CONCRETE MONUMENT MD RTE 175 AT DOBBIN RD.

NO.	BY	REVISION	DATE
APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.			
	<i>Chad Dammer</i>		5/20/93 DATE
	<i>Calvin M. Ferguson</i>		5/10/93 DATE
APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.			
	<i>William E. Ray</i>		6-1-93 DATE
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.			
	<i>Thomas J. Honan</i>		6/10/93 DATE
<b>TITLE SHEET</b>			
PROJECT NAME: <b>THE GABLES AT NEW YEARS GIFT</b>			
LOT 3, VLR 1\9; LOTS 18,D-1, D-3, VLR 1\6; & PARCELS B-1 THRU B-3 A RESUBDIVISION OF PARCEL B, VLR 1\6, SECTION 1\AREA 6 & LOT 3 COLUMBIA - VILLAGE OF LONGREACH SECTION 1\AREA 9 SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND.			
PREPARED BY:	American Engineering Inc. CIVIL ENGINEERING CONSULTANTS AND LAND PLANNERS		OWNER: THOMAS & VALERIE NELSON 5970 TAMAR DRIVE COLUMBIA, MARYLAND 21044
DEVELOPER:	671-A MAIN STREET LAUREL, MARYLAND 20707 WASH. (301) 953-1221 BALT. (301) 880-3039		CENTEX HOMES 2127 ESPEY COURT, SUITE 210 CROFTON, MARYLAND 21114
DES.:	W.D.F.	JOB:	92105
DRW.:	W.D.F.	FILE:	GIFTC
CHK.:	D.C.W.	DATE:	9-18-92
SCALE:		SHEET 1 OF 9	
AS SHOWN			



1661

LINE NO.	BEARING	DISTANCE	LINE NO.	BEARING	DISTANCE
1	N 50°10'00" E	166.37'	1	N 50°10'00" E	166.37'
2	S 89°55'55" E	769.14'	2	S 89°55'55" E	769.14'
3	N 50°10'00" W	166.37'	3	N 50°10'00" W	166.37'
4	S 89°55'55" W	769.14'	4	S 89°55'55" W	769.14'
5	N 50°10'00" E	166.37'	5	N 50°10'00" E	166.37'
6	S 89°55'55" E	769.14'	6	S 89°55'55" E	769.14'
7	N 50°10'00" W	166.37'	7	N 50°10'00" W	166.37'
8	S 89°55'55" W	769.14'	8	S 89°55'55" W	769.14'
9	N 50°10'00" E	166.37'	9	N 50°10'00" E	166.37'
10	S 89°55'55" E	769.14'	10	S 89°55'55" E	769.14'
11	N 50°10'00" W	166.37'	11	N 50°10'00" W	166.37'
12	S 89°55'55" W	769.14'	12	S 89°55'55" W	769.14'
13	N 50°10'00" E	166.37'	13	N 50°10'00" E	166.37'
14	S 89°55'55" E	769.14'	14	S 89°55'55" E	769.14'
15	N 50°10'00" W	166.37'	15	N 50°10'00" W	166.37'
16	S 89°55'55" W	769.14'	16	S 89°55'55" W	769.14'
17	N 50°10'00" E	166.37'	17	N 50°10'00" E	166.37'
18	S 89°55'55" E	769.14'	18	S 89°55'55" E	769.14'
19	N 50°10'00" W	166.37'	19	N 50°10'00" W	166.37'
20	S 89°55'55" W	769.14'	20	S 89°55'55" W	769.14'
21	N 50°10'00" E	166.37'	21	N 50°10'00" E	166.37'
22	S 89°55'55" E	769.14'	22	S 89°55'55" E	769.14'
23	N 50°10'00" W	166.37'	23	N 50°10'00" W	166.37'
24	S 89°55'55" W	769.14'	24	S 89°55'55" W	769.14'
25	N 50°10'00" E	166.37'	25	N 50°10'00" E	166.37'
26	S 89°55'55" E	769.14'	26	S 89°55'55" E	769.14'
27	N 50°10'00" W	166.37'	27	N 50°10'00" W	166.37'
28	S 89°55'55" W	769.14'	28	S 89°55'55" W	769.14'
29	N 50°10'00" E	166.37'	29	N 50°10'00" E	166.37'
30	S 89°55'55" E	769.14'	30	S 89°55'55" E	769.14'
31	N 50°10'00" W	166.37'	31	N 50°10'00" W	166.37'
32	S 89°55'55" W	769.14'	32	S 89°55'55" W	769.14'
33	N 50°10'00" E	166.37'	33	N 50°10'00" E	166.37'
34	S 89°55'55" E	769.14'	34	S 89°55'55" E	769.14'
35	N 50°10'00" W	166.37'	35	N 50°10'00" W	166.37'
36	S 89°55'55" W	769.14'	36	S 89°55'55" W	769.14'
37	N 50°10'00" E	166.37'	37	N 50°10'00" E	166.37'
38	S 89°55'55" E	769.14'	38	S 89°55'55" E	769.14'
39	N 50°10'00" W	166.37'	39	N 50°10'00" W	166.37'
40	S 89°55'55" W	769.14'	40	S 89°55'55" W	769.14'
41	N 50°10'00" E	166.37'	41	N 50°10'00" E	166.37'
42	S 89°55'55" E	769.14'	42	S 89°55'55" E	769.14'
43	N 50°10'00" W	166.37'	43	N 50°10'00" W	166.37'
44	S 89°55'55" W	769.14'	44	S 89°55'55" W	769.14'
45	N 50°10'00" E	166.37'	45	N 50°10'00" E	166.37'
46	S 89°55'55" E	769.14'	46	S 89°55'55" E	769.14'
47	N 50°10'00" W	166.37'	47	N 50°10'00" W	166.37'
48	S 89°55'55" W	769.14'	48	S 89°55'55" W	769.14'
49	N 50°10'00" E	166.37'	49	N 50°10'00" E	166.37'
50	S 89°55'55" E	769.14'	50	S 89°55'55" E	769.14'

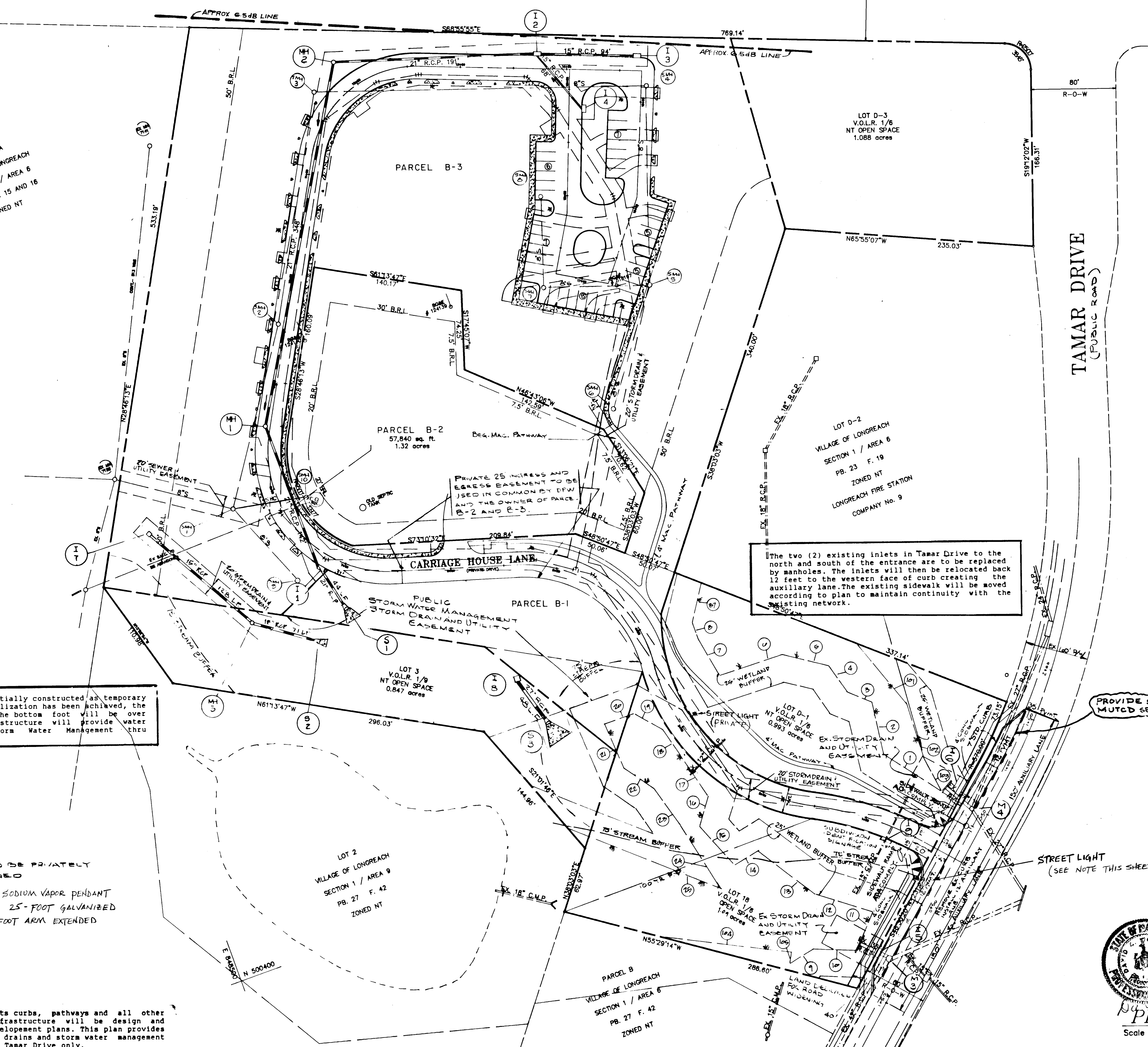
**LITTLE PATUXENT PARKWAY**  
(RELOCATED MARYLAND ROUTE 175)  
SHA PLATS #41572 AND #41573

PARCEL A  
VILLAGE OF LONGREACH  
SECTION 1 / AREA 6  
PB. 24 F. 15 AND 16  
ZONED NT

The proposed structure will be initially constructed as temporary sediment trap. Once complete stabilization has been achieved, the trap will be mucked out and the bottom foot will be over excavated. At this point the structure will provide water quality and will provide Storm Water Management thru infiltration.

**LIGHTING LEGEND**  
\* ON-SITE STREET LIGHT - TO BE PRIVATELY INSTALLED AND MAINTAINED  
● 150 WATT HIGH PRESSURE SODIUM VAPOR PENDANT MOUNTED FIXTURE, ON A 25-FOOT GALVANIZED STEEL POLE, WITH A 6-FOOT ARM EXTENDED OVER TAMAR DRIVE.

Note: the roads, parking lots curbs, pathways and all other portions of the private infrastructure will be design and constructed under the site development plans. This plan provides for the construction of storm drains and storm water management facilities and improvements to Tamar Drive only.



The two (2) existing inlets in Tamar Drive to the north and south of the entrance are to be replaced by manholes. The inlets will then be relocated back 12 feet to the western face of curb creating the auxiliary lane. The existing sidewalk will be moved according to plan to maintain continuity with the existing network.

PROVIDE STRIPING PER MUTCD SECT III B-7



NOTE: THIS DRAWING IS FOR THE CONSTRUCTION OF STORM DRAINS AND STORM WATER MANAGEMENT ONLY, AND IS NOT FOR THE CONSTRUCTION OF ROADS OR OTHER UTILITIES. ALL ROADS ARE PRIVATE AND WILL BE CONSTRUCTED PER THE SITE DEVELOPMENT PLAN.

NO.	BY	REVISION	DATE
APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.			
 CHIEF, LAND DEVELOPMENT DIVISION			5/20/93 DATE
 CHIEF, BUREAU OF HIGHWAYS			5/14/93 DATE
APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.			
 CHIEF, BUREAU OF ENGINEERING			6-1-93 DATE
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.			
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT			6/10/93 DATE
TITLE			
<b>STORM DRAIN PLAN</b>			
PROJECT NAME			
<b>THE GABLES AT NEW YEARS GIFT</b> LOT 3, V.L.R. 1/8; LOTS 18, D-1, D-3, V.L.R. 1/6; & PARCELS B-1 THRU B-3, A RESUBDIVISION OF PARCEL B, V.L.R. 1/6, SECTION 1, AREA 6 & LOT 3 COLUMBIA - VILLAGE OF LONGREACH SECTION 1, AREA 9 6th ELECTION DISTRICT HOWARD COUNTY, MARYLAND.			
PREPARED BY:		OWNER	
<b>American Engineering Inc.</b> CIVIL ENGINEERING CONSULTANTS AND LAND PLANNERS 671-A MAIN STREET LAUREL, MARYLAND 20707 WASH. (301) 953-1221 BALT. (301) 880-3039		THOMAS & VALERIE NELSON 5970 TAMAR DRIVE COLUMBIA MARYLAND, 21044	
		DEVELOPER	
DES.: W.D.F. DRW.: W.D.F. CHK.: D.C.W.		CENTEX HOMES 2127 ESPEY COURT, SUITE 210 GROFTON MARYLAND, 21114	
JOB: 92105		SCALE: SHEET 2 OF 3	
FILE: GIFTSP		1" = 50'	
DATE: 9-13-92			

1661

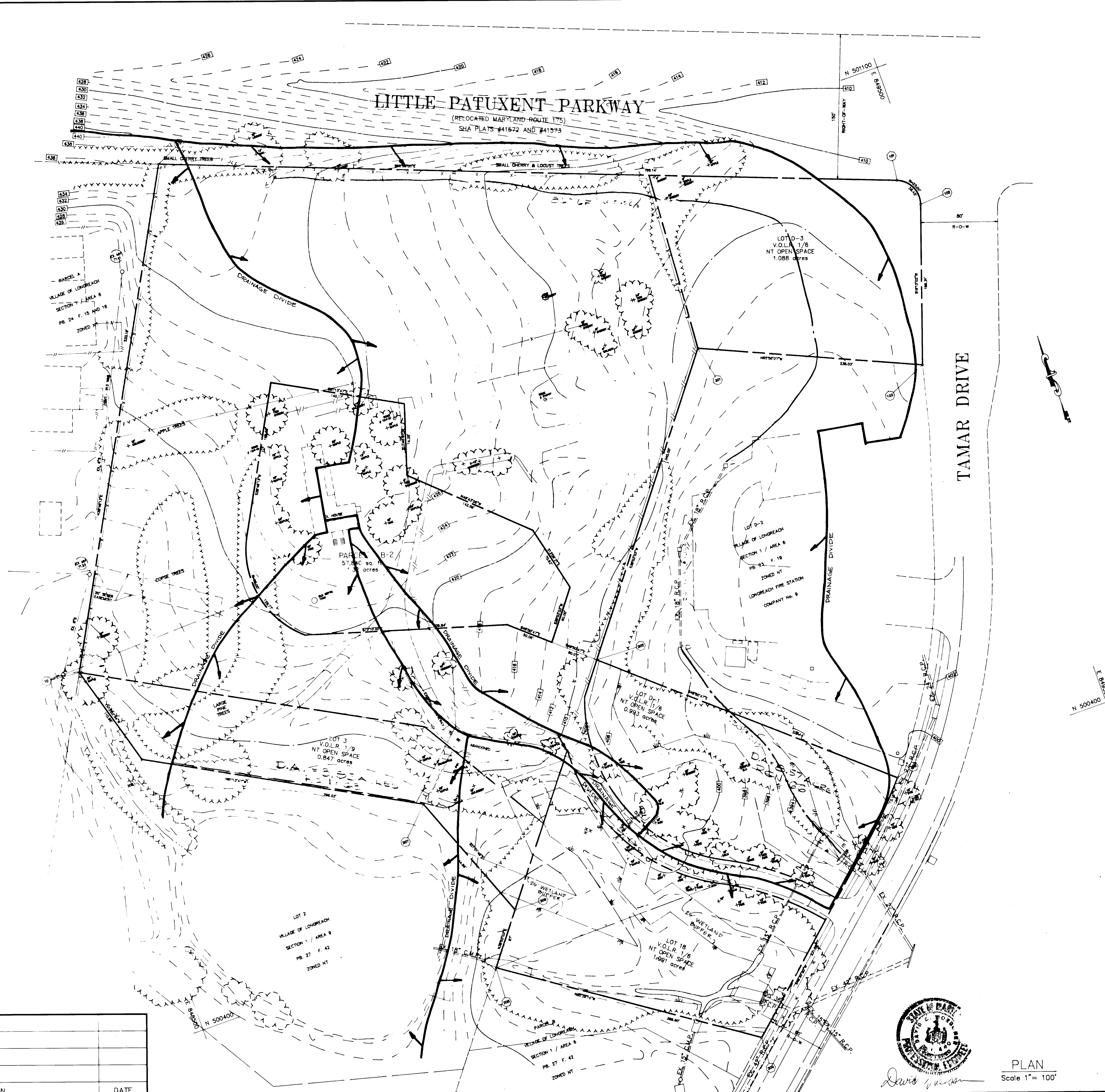












ENGINEER'S CERTIFICATE  
 I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

*David Moore* 4/7/93  
 SIGNATURE OF ENGINEER DATE

DEVELOPER'S CERTIFICATE  
 I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A U.S. 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 HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY.

*Richard Kobylski* 4/7/93  
 SIGNATURE OF DEVELOPER DATE  
 RICHARD KOBYLSKI

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

*James M. Zehn* 5/1/93  
 U.S. SOIL CONSERVATION DISTRICT SUPERVISOR DATE

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

*John R. Hill* 5/1/93  
 DISTRICT HOWARD SOIL CONSERVATION DISTRICT DATE

APPROVED : HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.

*John Danner* 5/24/93  
 CHIEF, LAND DEVELOPMENT DIVISION DATE

*Oliver M. Benjamin* 5/14/93  
 CHIEF, BUREAU OF HIGHWAYS DATE

*William E. Pugh* 6-1-93  
 CHIEF, BUREAU OF ENGINEERING DATE

APPROVED : HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

*Amara Hlonah* 6/10/93  
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

TITLE  
**EXISTING DRAINAGE AREA MAP**

PROJECT NAME  
**THE GABELS AT NEW YEARS GIFT**  
 LOT 3, V.L.R. 1/9; LOTS 18, D-1, D-3, V.L.R. 1/6; & PARCELS B-1 THRU B-3, A RESUBDIVISION OF PARCEL B, V.L.R. 1/6, SECTION 1, AREA 6 & LOT 3 COLUMBIA - VILLAGE OF LONGREACH SECTION 1, AREA 9 SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND.

PREPARED BY: <b>American Engineering Inc.</b> CIVIL ENGINEERING CONSULTANTS AND LAND PLANNERS 671-A MAIN STREET LAUREL, MARYLAND 20707 WASH. (301) 953-1221 BALT. (410) 880-3039	OWNER THOMAS & VALERIE NELSON 5970 TAMAR DRIVE COLUMBIA, MARYLAND 21044
DEVELOPER CENTEX HOMES 2127 ESPEY COURT, SUITE 210 CROFTON, MARYLAND 21114	
DES. : B.I.S.      JOB : 92105	SCALE :      SHEET OF
DRW. : W.D.F.      FILE : GIFTDAMX	1" = 50'      5      9
CHK. : D.C.W.      DATE : 9-18-92	



PLAN  
 Scale 1" = 100'

1661

NO.	BY	REVISION	DATE





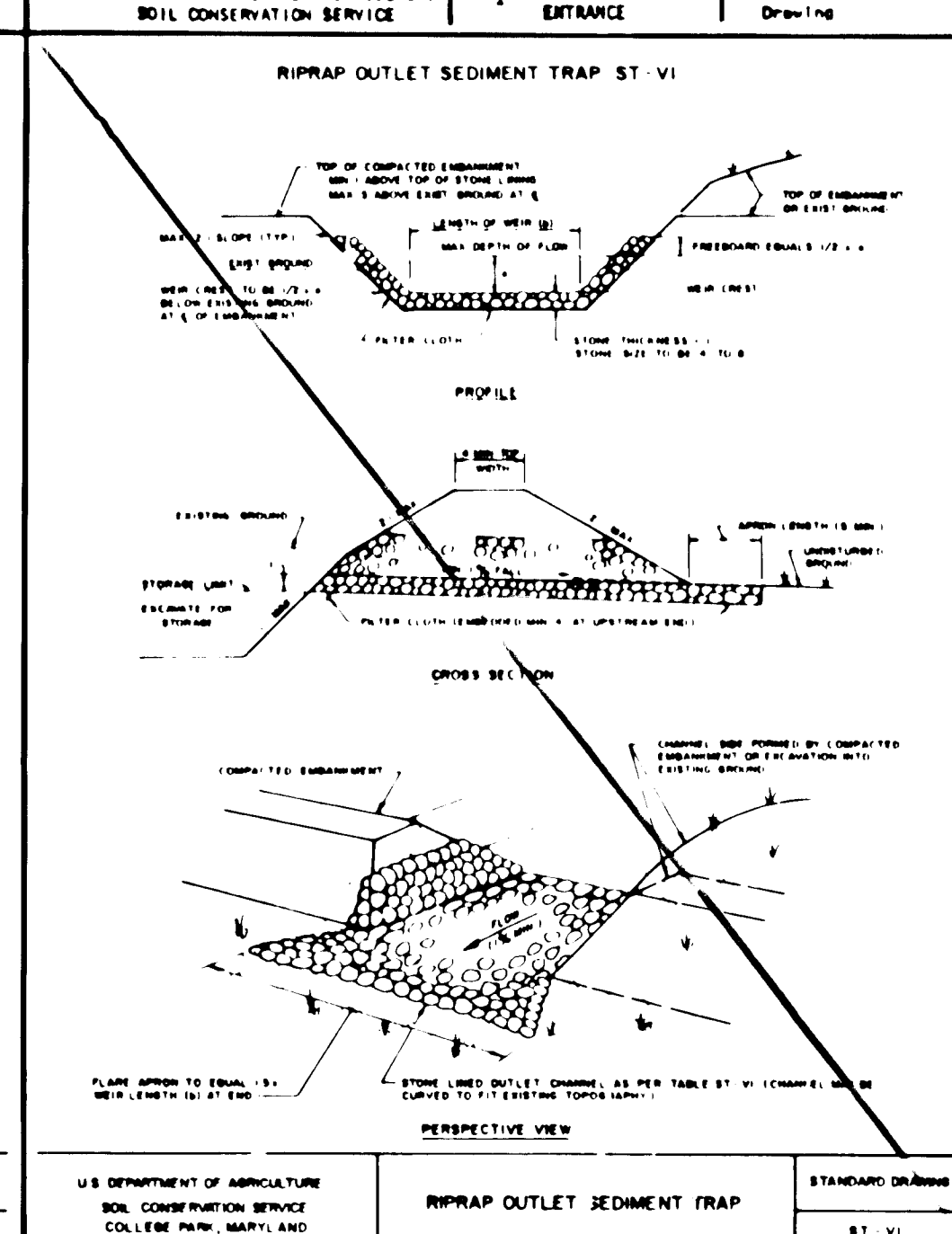
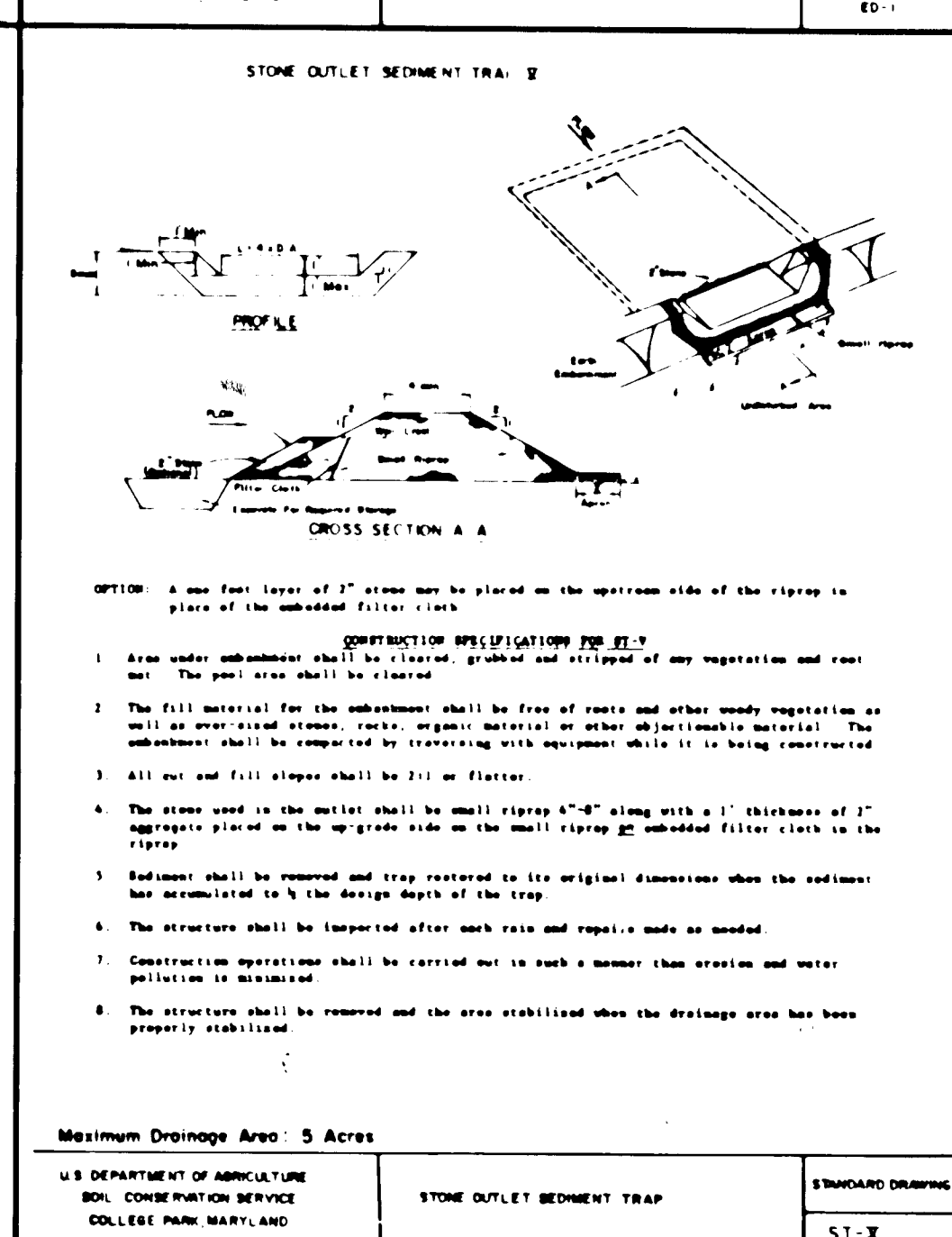
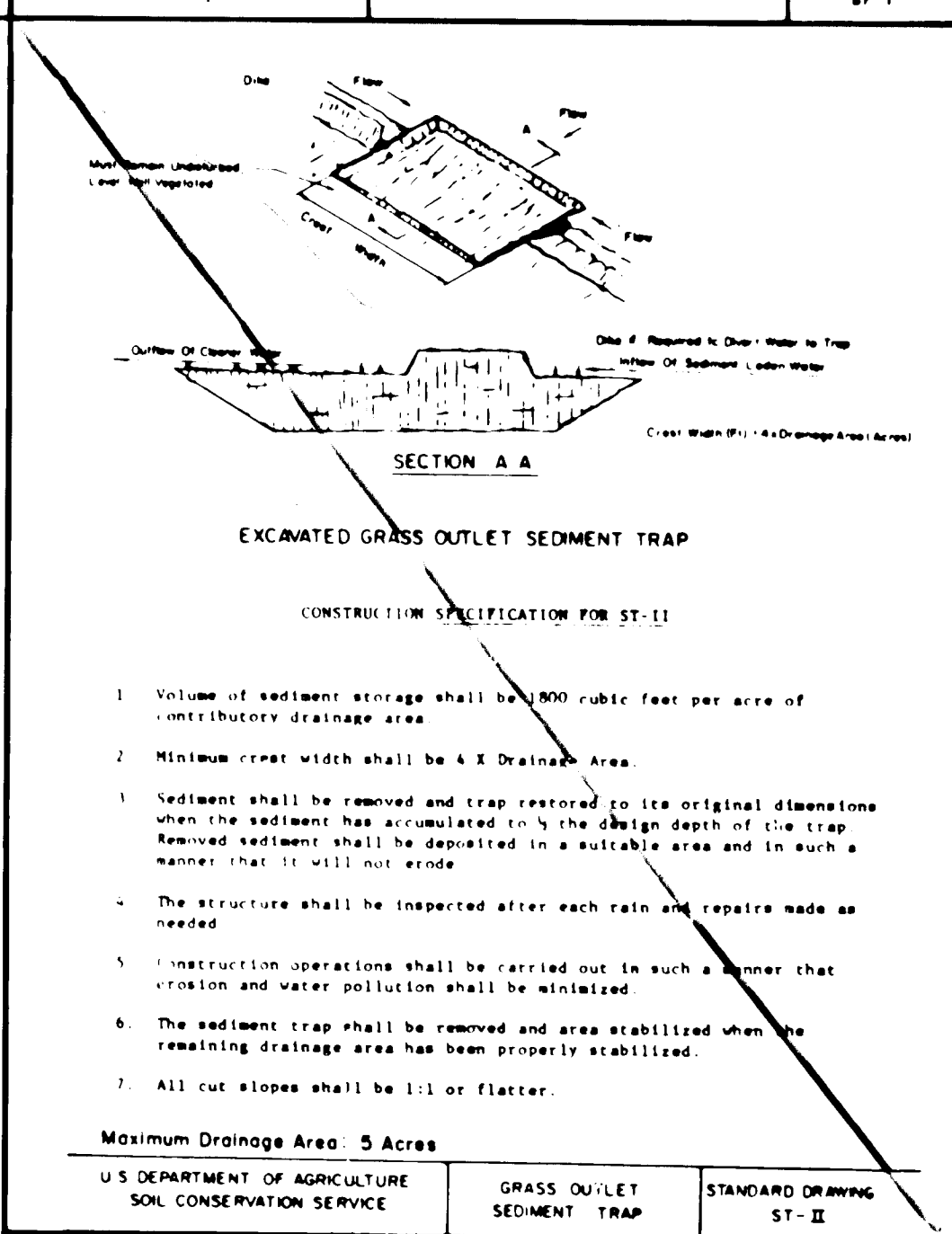
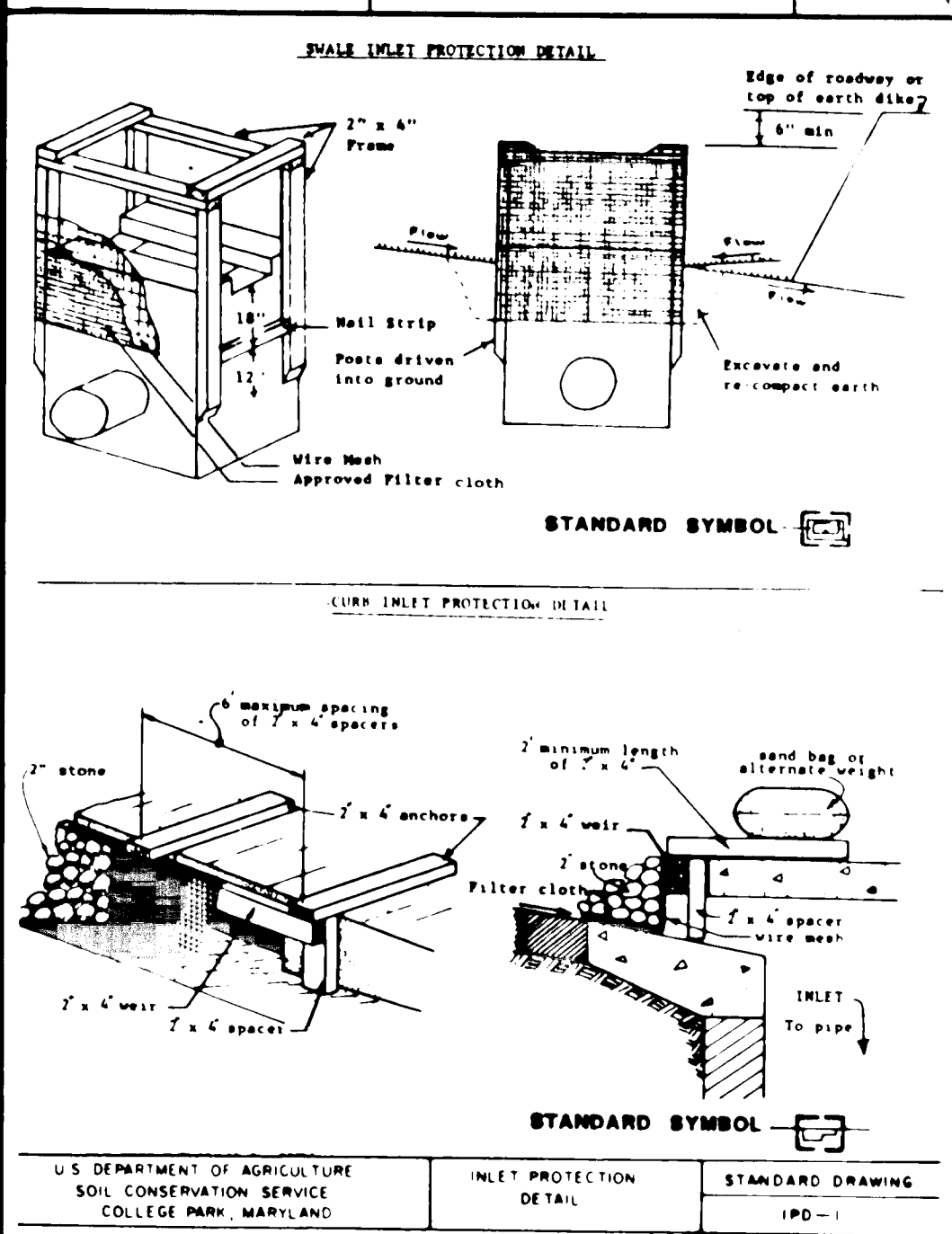
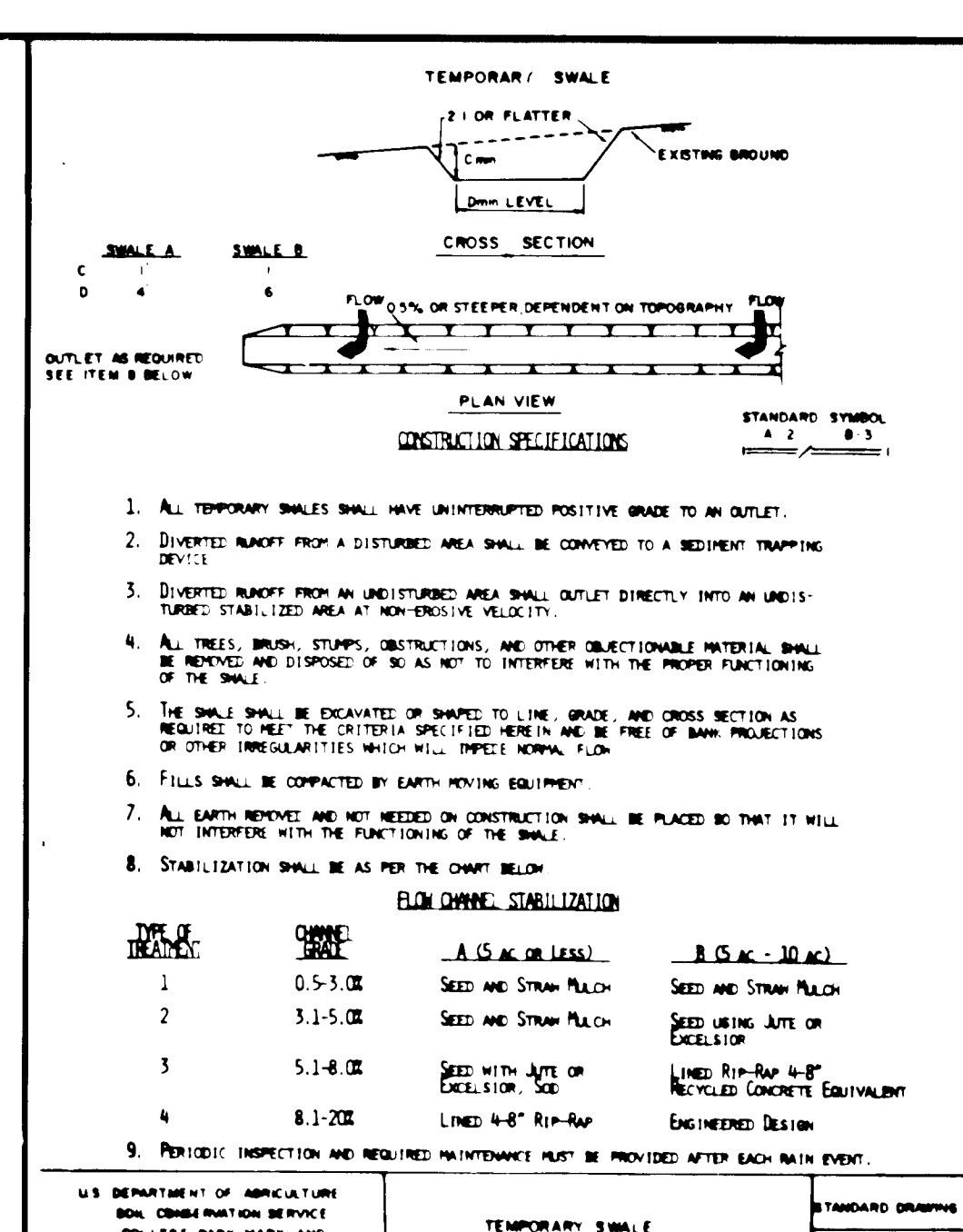
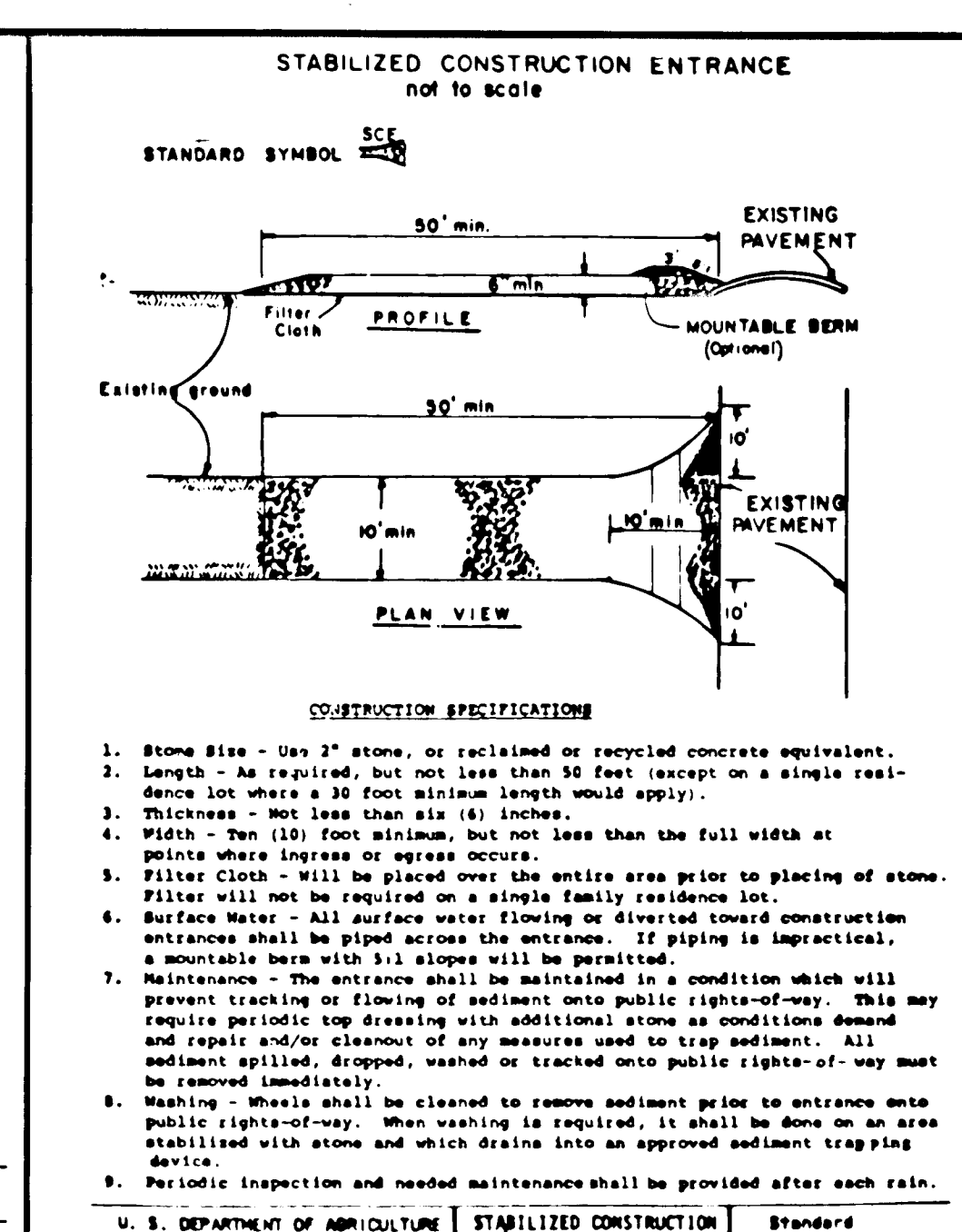
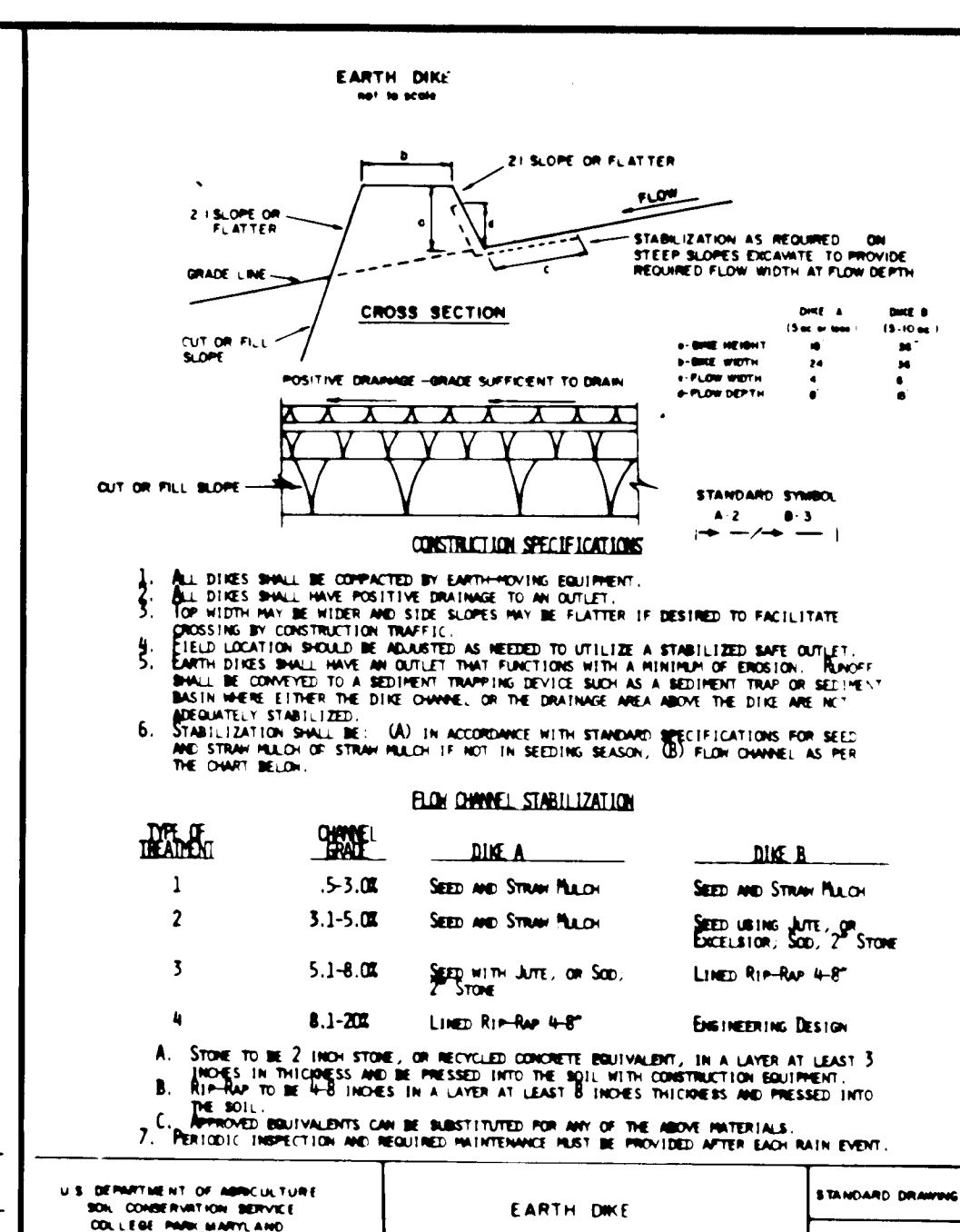
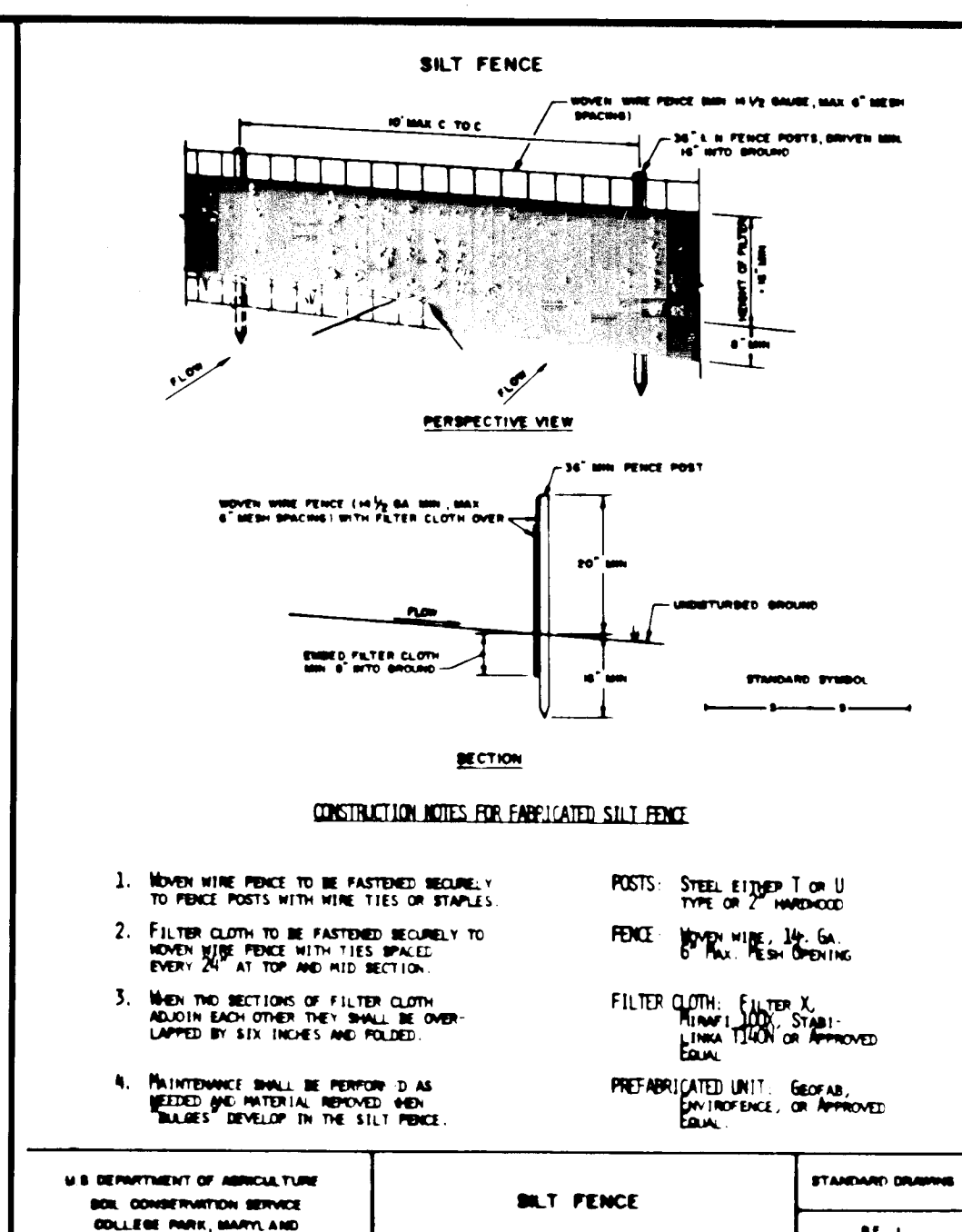
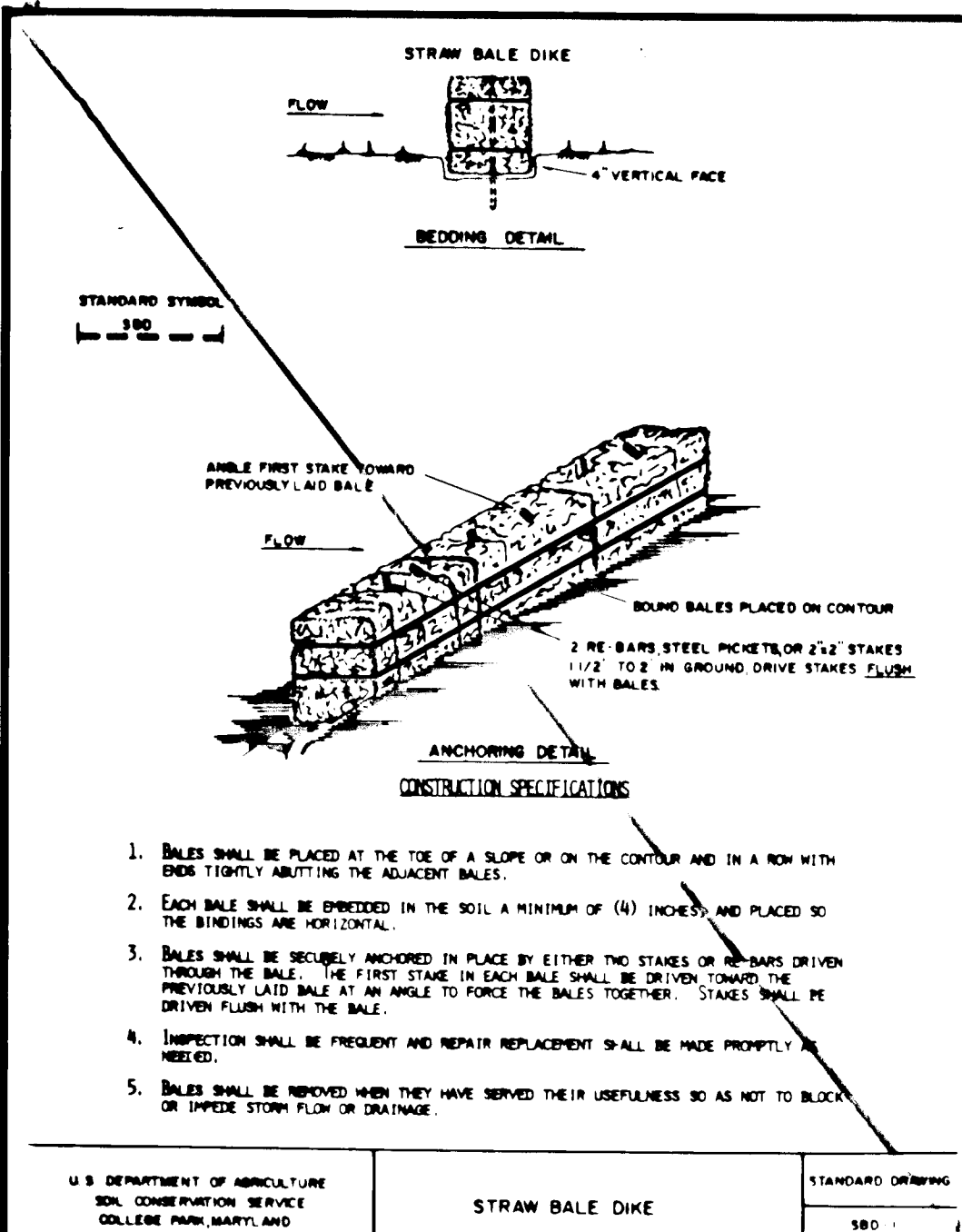












**PERMANENT SEEDING NOTES**

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. Narrow or disc 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. Narrow or disc into upper three inches of soil.

**Seeding - For the periods March 1 thru April 30, and August 1 thru October 15, seed with 60 lbs per acre (1.4 lbs/1000 sq ft) of Kentucky 31 Tall Fescue. For the period May 1 thru July 31, seed with 60 lbs Kentucky 31 Tall Fescue per acre and 2 lbs per acre (.05 lbs/1000 sq ft) of weeping lovegrass. During the period of October 16 thru February 28, protect site by: Option (1) 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring. Option (2) Use sod. Option (3) Seed with 60 lbs/acre Kentucky 31 Tall Fescue and mulch with 2 tons/acre well anchored straw.**

**Mulching - Apply 14 to 2 tons per acre (70 to 90 lbs/1000 sq ft) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gallons per acre (5 gal/1000 sq ft) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gallons per acre (8 gal/1000 sq ft) for anchoring.**

**Maintenance - Inspect all seeded areas and make needed repairs, 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. If not previously loosened.

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

**Seeding - For the periods March 1 thru April 30 and from August 1 thru November 15, seed with 24 bushel per acre of annual ryegrass (3.2 lbs/1000 sq ft). For the period May 1 thru August 14, seed with 3 lbs per acre of weeping lovegrass (.07 lbs/1000 sq ft). For the period November 16 thru February 28, protect site by applying 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring, or use sod.**

**Mulching - Apply 14 to 2 tons per acre (70 to 90 lbs/1000 sq ft) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gal per acre (5 gal/1000 sq ft) of emulsified asphalt on flat areas. On slopes, 8 ft 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 rate and methods not covered.

**SEDIMENT CONTROL NOTES**

- 1) A minimum of 24 hours notice must be given to the Howard County Office of Inspection and Permits prior to the start of any construction. (393-2477)
- 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 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
- 3) Following initial soil disturbance or redisturbance, permanent or temporary stabilization shall be completed within: a) 7 calendar days for all perimeter sediment control structures, dikes, perimeter slopes and all slopes greater than 3:1, b) 14 days as to all other disturbed or graded areas on the project site.
- 4) All sediment traps/basins shown must be fenced and warning signs posted around their perimeter in accordance with Vol. 1, Chapter 17, 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 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for permanent seedings (Sec. 51) and (Sec. 54), temporary seedings (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	11.57 Acres
Area Disturbed	7.23 Acres
Area to be roofed or paved	2.16 Acres
Area to be vegetatively stabilized	5.99 Acres
Total Cut	2,718 Cu. yds
Total Fill	3,212 Cu. yds
Offsite waste/borrow area location	
- 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 controls must be provided, if deemed necessary by the Howard County DPW 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.

NOTE: FOR SEQUENCE OF CONSTRUCTIONS, SEE SHEET 4 OF 9.

**SEDIMENT CONTROL DETAIL SHEET**

**Construction Specifications**

**Materials**

1. Wooden frame is to be constructed of 2"x4" construction grade lumber.
2. Plywood is to be a minimum thickness of 1/4" construction grade lumber.

**Installation**

1. Cut plywood to extend a minimum of 6" past throat along curb.
2. Attach to anchors in a secure manner which will insure a water tight fit against throat.
3. Brace securely using sandbag or alternate weight. If not watertight, use approved filter cloth under plywood and attach securely.

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

*James M. Tolson, Jr.* 5/16/93  
SIGNATURE DATE

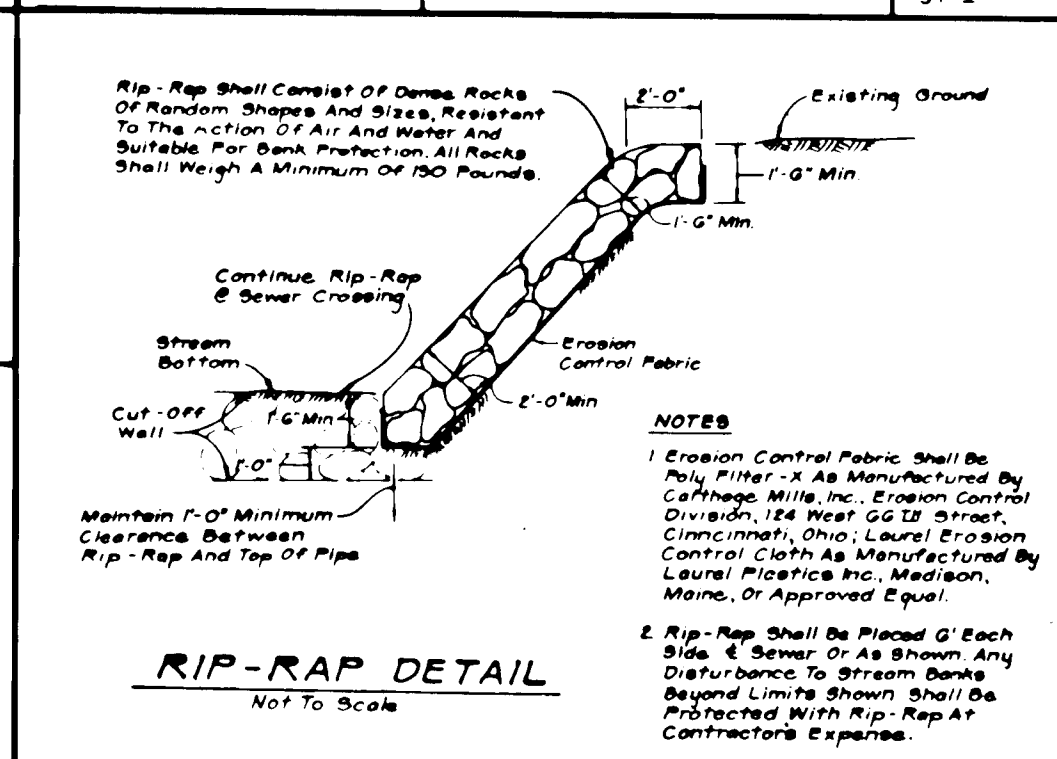
APPROVED HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

*James M. Tolson, Jr.* 6/10/93  
DATE

APPROVED FOR PUBLIC WATER AND SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

*John M. Tolson, Jr.* 5/29/93  
DATE

*John M. Tolson, Jr.* 5/11/93  
DATE



**Riprap Outlet Sediment Trap**

BT-VI for Stone Lined Channel)

Contributing Drainage Area (Acres)	Depth of Channel (Feet)	Length of Weir (b) (Feet)
1	1.5	5.0
2	1.5	5.0
3	1.5	5.0
4	1.5	10.0
5	1.5	12.0
6	1.5	14.0
7	1.5	16.0
8	2.0	10.0
9	2.0	10.0
10	2.0	12.0
11	2.0	14.0
12	2.0	14.0
13	2.0	16.0
14	2.0	16.0
15	2.0	18.0

**SOIL CONSERVATION MEASURES AT SMALL STREAM CROSSING**

Not To Scale

U.S. SOIL CONSERVATION SERVICE

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

*John M. Tolson, Jr.* 5/11/93  
Approved Howard S.C.D. DATE

APPROVED FOR PUBLIC WATER AND SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

*John M. Tolson, Jr.* 5/29/93  
DATE

*John M. Tolson, Jr.* 5/11/93  
DATE

**RIP-RAP DETAIL**

Not To Scale

**OWNER'S / DEVELOPER'S CERTIFICATION**

"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 40-hour Department of Planning & Zoning Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District."

Signature: *John M. Tolson, Jr.* Date: 4/16/93  
Name: JOHN M. TOLSON, JR. Title: CIVIL ENGINEER  
Firm: CENTEX HOMES Phone No.: 2127 ESPY CT  
Complete Address: 2127 ESPY CT, CROFTON, MD 21114

**ENGINEER'S CERTIFICATE**

"I certify that this plan for erosion and sediment control represents a practical and workable plan based on my knowledge of the site conditions and that it is prepared in accordance with the requirements of the Howard Soil Conservation District."

Signature: *Thomas & Valerie Nelson* Date: 4/16/93  
Name: THOMAS & VALERIE NELSON  
Firm: AMERICAN ENGINEERING CONSULTANTS AND LAND PLANNERS  
Address: 671-A MAIN STREET, LAUREL, MARYLAND 20707, WASH. (301) 953-1221, BALT. (410) 880-3039

PREPARED BY: American Engineering Inc. CIVIL ENGINEERING CONSULTANTS AND LAND PLANNERS 671-A MAIN STREET LAUREL, MARYLAND 20707 WASH. (301) 953-1221 BALT. (410) 880-3039

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Approved Howard S.C.D. DATE

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PROJECT NAME: THE GABLES AT SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND.

LOT 3, V.R. 1/9; LOTS 18, D-1, D-3, V.R. 1/6; & PARCELS D-1 THRU D-3. A RESUBDIVISION OF PARCEL B, V.R. 1/6, SECTION 1, AREA 6 & LOT 3 COLUMBIA VILLAGE OF LONGHARVEY SECTION 1, AREA 9

Drafting	DATE	REVISIONS	SHEET	DATE	JOB NUMBER
Check			9		
Design			OF		
Check			9		

SCALE: F-93-51