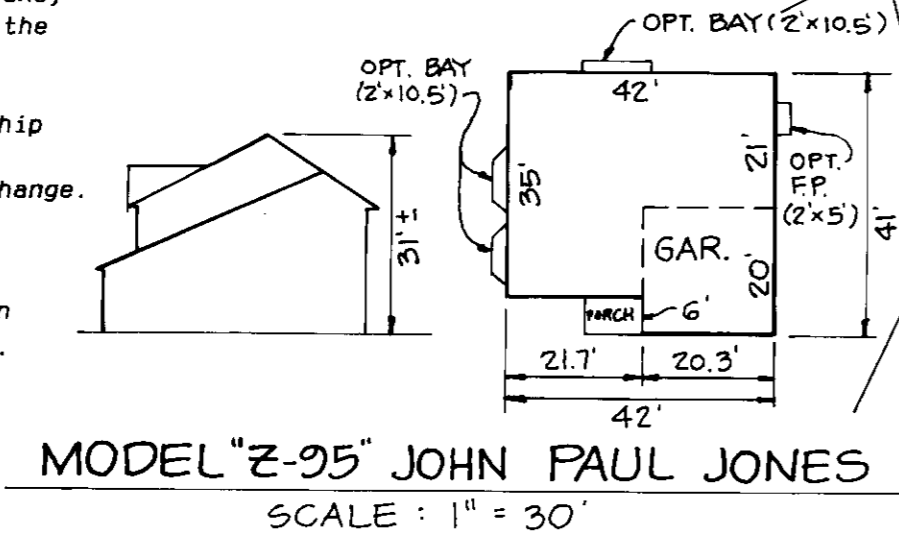
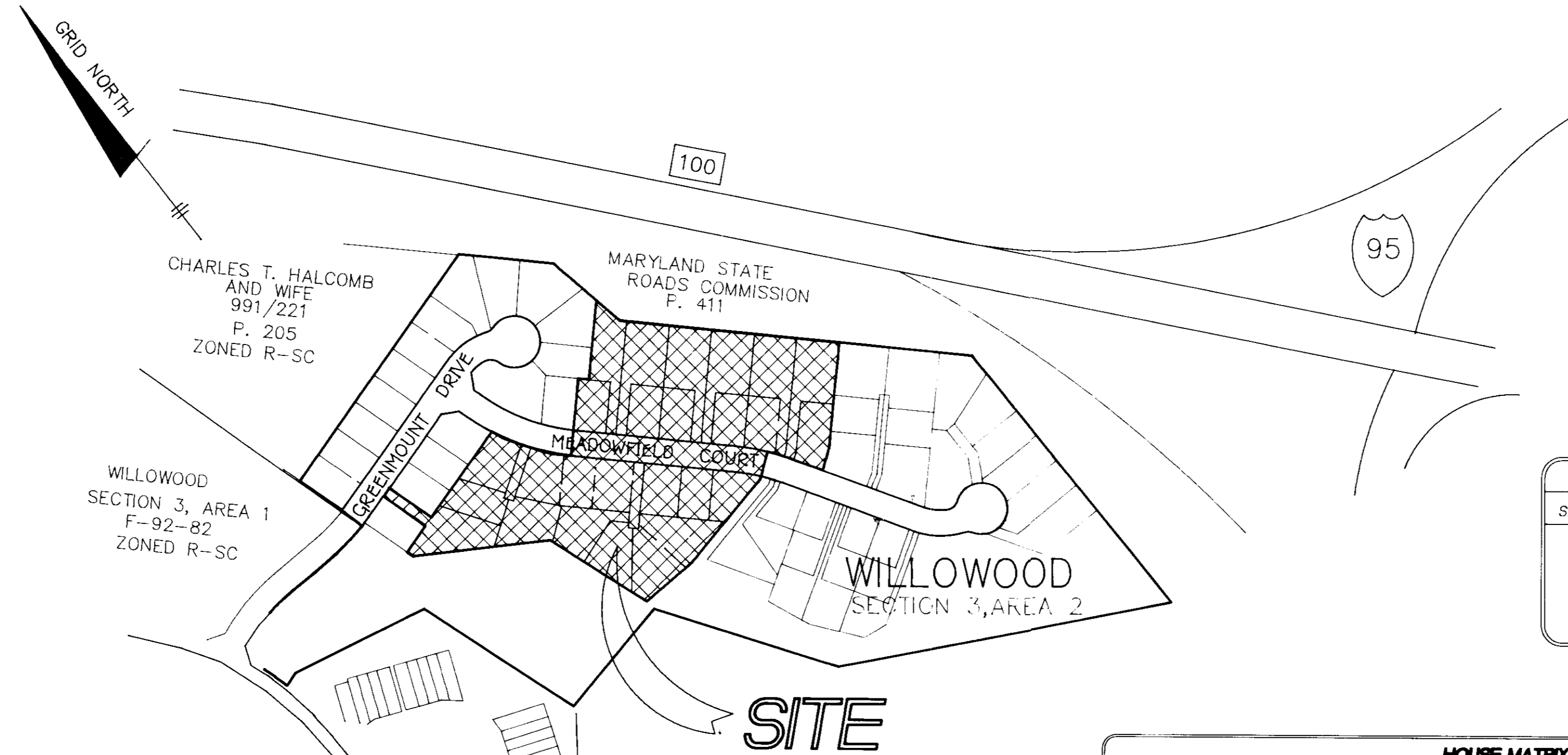


GENERAL NOTES

- Subject property is zoned: R-SC per 10-18-93 Comprehensive Zoning Plan.
- The total area included in this submission is: 5.235 Ac.
- The total number of lots included in this submission are 29. Total buildable lots are 26.
- Improvement to property: Single family detached.
- The maximum lot coverage permitted is: 40%
- Utilities shown as existing are taken from approved water and sewer plan Contract #14-3303-D and approved road construction plans F-93-37.
- Any damage to county/state owned right-of-way shall be corrected at the developer's expense.
- Storm water management for this SDP is provided in Willowood Section 3, Area 2 (F-93-37) by extended detention.
- The existing topography was taken from road construction plan (F-93-37) prepared by TSA Group, Inc.
- The coordinates shown hereon are based upon the Howard County Geodetic Control which is based upon Maryland Grid System NAD 27 - Howard County Monument Nos.: 2444005 and 2444013.
- The contractor shall notify the Department of Public Works Bureau of Engineering/Construction Inspection Division at (410)313-1880 24 hours prior to the start of work.
- The contractor shall notify "Miss Utility" at 1-800-257-7777 at least 48 hours prior to any excavation work.
- The contractor shall verify location of utilities and easements prior to construction.
- Waiver petition WP-91-76 was approved on January 18, 1991 pertaining to Sections 16.113(c) (10) of the Subdivision Regulations to allow cul-de-sac length to exceed 1200 feet.
- For driveway apron details see Howard County Details R-6.03 and R-6.05.
- All roadways are public and existing.
- No wetlands exist within the lots of this submission.
- For flag or pipe stem lots, refuse collection, snow removal and road maintenance are provided to the junction of the flag or pipe stem and road right of way line and not to the flag or pipe stem lots driveway.
- Maintenance Agreement for the Use-In-Common driveways for Lots 449-450; 453-454; 457-458; 494-497 and 502-503 were recorded on 1/31/94 in Liber 3145 at Folios 539, 541 respectively.
- Driveways shall be provided prior to the residential occupancy to insure safe access for fire and emergency vehicles per the following minimum requirements:
 - Width: 12' (16' serving more than one residence.)
 - Surface: 6" OF compact crusher run base w/tar and chip coating.
 - Geometry: Max. 15% Driveway grade, max. 10% grade change.
- The 20 foot wide landscaped buffer shown on this SDP is required by Section 16.124 of the Subdivision and Land Development Regulations. No clearing of existing vegetation is permitted. However, landscape maintenance is authorized.



LOCATION MAP

SCALE: 1" = 200'

HOUSE MATRIX

LOT NO.	BOX TYPE	JOHN ADAMS	BEN BANNEKER	THE LIBERTY	THE MASON	PAUL REVERE	W. WASHINGTON
449	B	Y, 1, 2	Y, 2	Y, 2, 7	Y, 2	Y, 2, 3	Y, 2, 7
449	B	Y, 1, 6	Y, 6	Y, 2	Y, 2	Y, 3, 6	Y, 6, 7
450	A	Y, 2	Y, 2	Y, 2, 7	Y, 2	Y, 2	Y, 2, 7
451	C (MOD)	Y, 1, 2	Y, 2	N	Y, 2	N	Y, 2, 7
452	B	Y, 1, 2	Y, 2	Y, 2, 7	Y, 2	Y, 2, 3	Y, 2, 7
453	A	Y, 6	Y, 6	Y, 6, 7	Y, 6	Y, 6	Y, 6, 7
454	A	Y, 2	Y, 2	Y, 2, 7	Y, 2	Y, 2	Y, 2, 7
455	B	Y, 1, 2	Y, 2	Y, 2, 7	Y, 2	Y, 2, 3	Y, 2, 7
456	B	Y, 1, 2	Y, 2	Y, 2, 7	Y, 2	Y, 2, 3	Y, 2, 7
457	A	Y, 6	Y, 6	Y, 6, 7	Y, 6	Y, 6	Y, 6, 7
458	A	Y, 2	Y, 2	Y, 2, 7	Y, 2	Y, 2	Y, 2, 7
459	NA (MOD)	Y, 1, 2	Y, 2	Y, 2, 7	Y, 2	Y, 2	Y, 2, 7
459	NA (MOD)	Y, 2	Y, 2	Y, 2, 7	Y, 2	Y, 2, 3	Y, 2, 7
491	D	Y, 1, 6	Y, 6	Y, 6, 7	Y, 6	Y, 3, 6	Y, 1, 6, 7
492	D	Y, 1, 6	Y, 6	Y, 6, 7	Y, 6	Y, 3, 6	Y, 1, 6, 7
494	C	Y, 1, 2	Y, 2	Y, 2, 7	Y, 2	N	Y, 1, 2, 7
495	A	Y, 2	Y, 2	Y, 2, 7	Y, 2	N	Y, 2, 7
496	NA (MOD)	Y, 1, 2	Y, 2	Y, 2, 7	Y, 2	N	Y, 2, 7
497	A	Y, 6	Y, 6	Y, 6, 7	Y, 6	Y, 6	Y, 6, 7
499	D	Y, 1, 6	Y, 6	Y, 6, 7	Y, 6	Y, 3, 6	Y, 1, 6, 7
499	NA (MOD)	Y, 1, 6	Y, 6	Y, 6, 7	Y, 6	Y, 3, 6	Y, 1, 6, 7
500	C	Y, 1, 2	Y, 2	Y, 2, 7	Y, 2	N	Y, 1, 2, 7
502	C	Y, 6	N	N	Y, 6	N	Y, 6, 7
503	NA (MOD)	Y, 1, 6	Y, 6	Y, 6, 7	Y, 6	Y, 6	Y, 6, 7
504	NA (MOD)	Y, 1, 6	Y, 4, 6	Y, 6, 7	Y, 6	Y, 3, 6	Y, 1, 6, 7
508	C	Y, 6	N	Y, 6, 7	N	Y, 6	Y, 6, 7

NOTES: * SEE SHEET 2 FOR BOX DIMENSIONS WHICH ARE MODIFIED.

KEY:
 Y = ALL OPTIONS EXCEPT AS INDICATED
 N = UNIT DOES NOT FIT ON THE LOT
 1 = 1 CAR GARAGE ONLY
 2 = GARAGE ON THE LEFT
 3 = NO 2" FRONTAL EXTENSION AT THE GARAGE
 4 = NO SUNROOM
 5 = NO 2" EXTENSION AT THE BACK
 6 = GARAGE ON THE RIGHT
 7 = NO SIDE ENTRY GARAGE

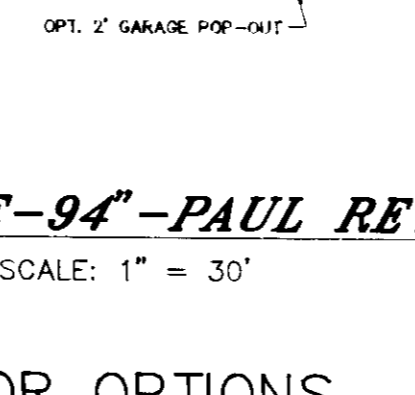
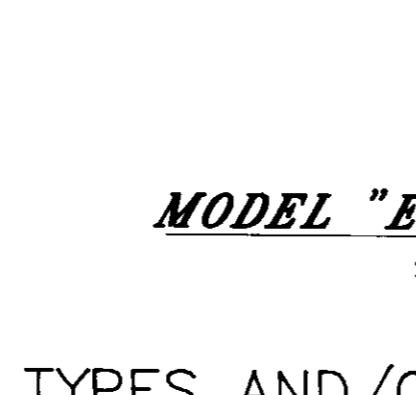
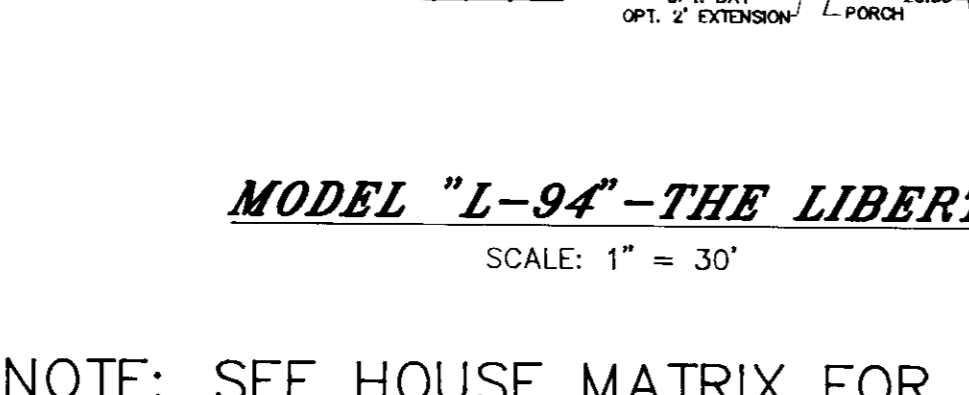
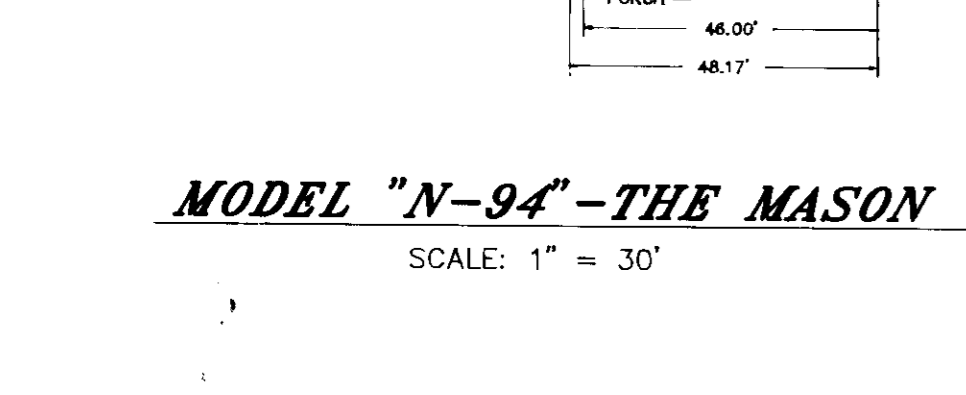
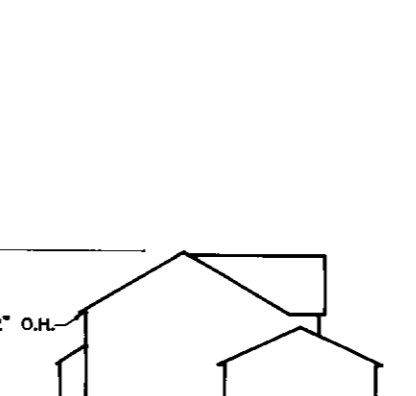
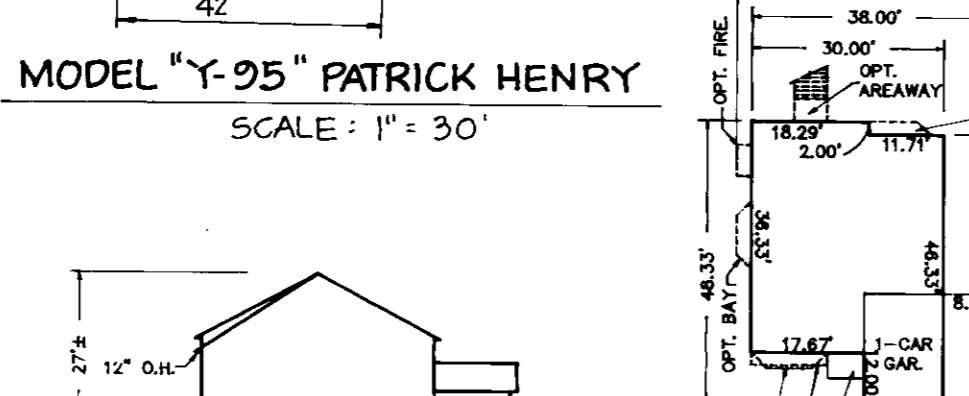
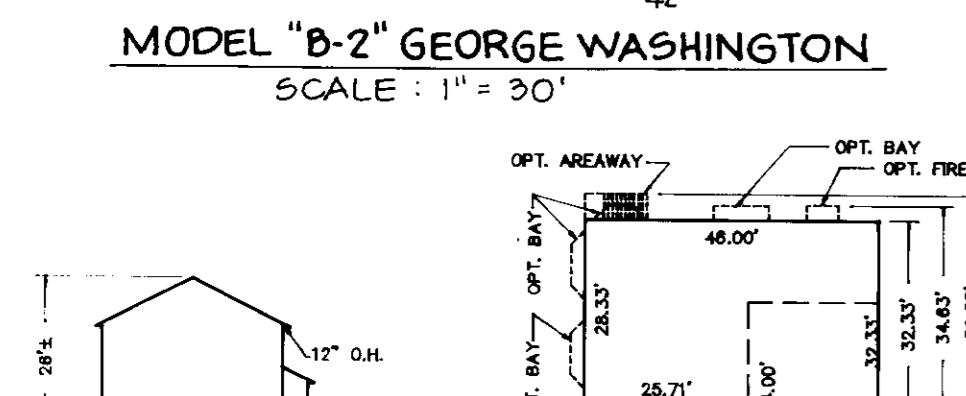
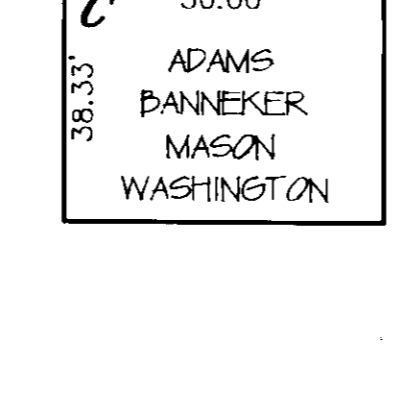
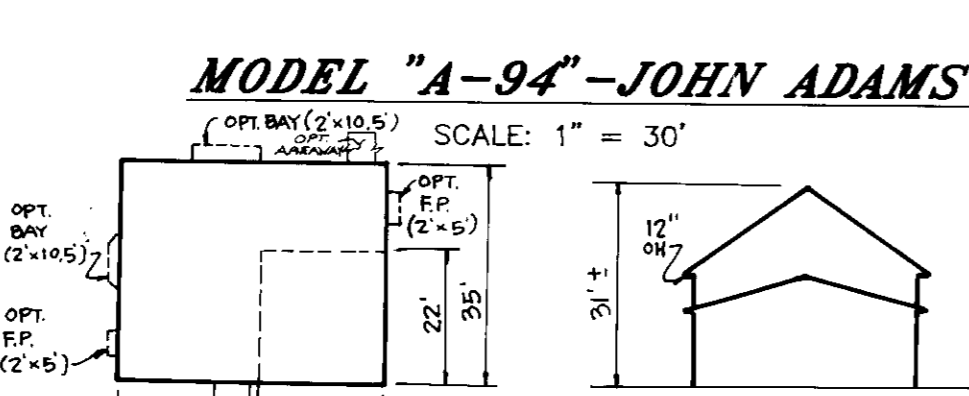
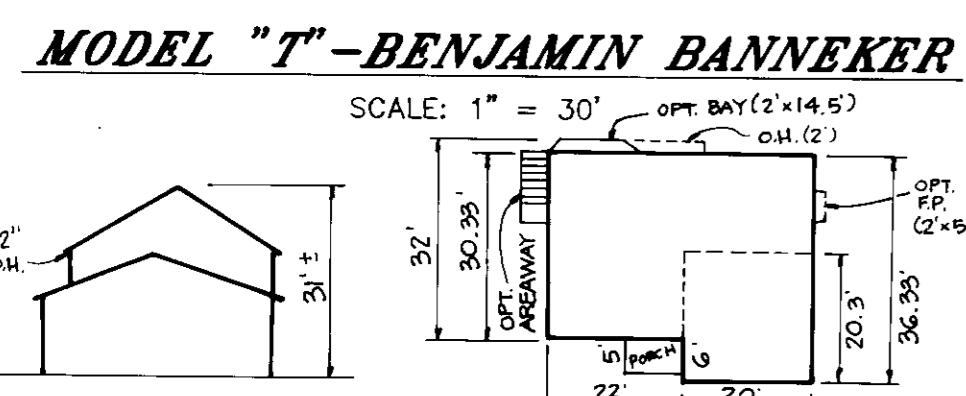
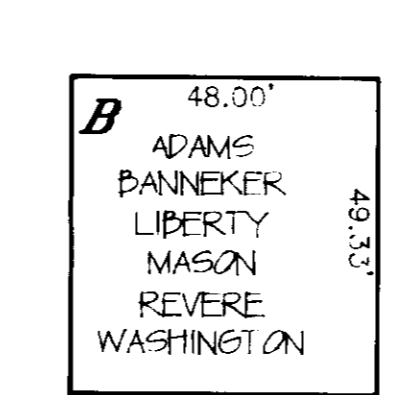
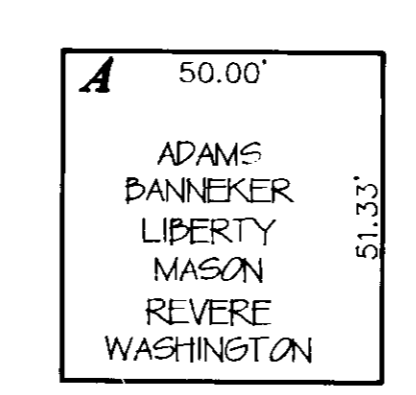
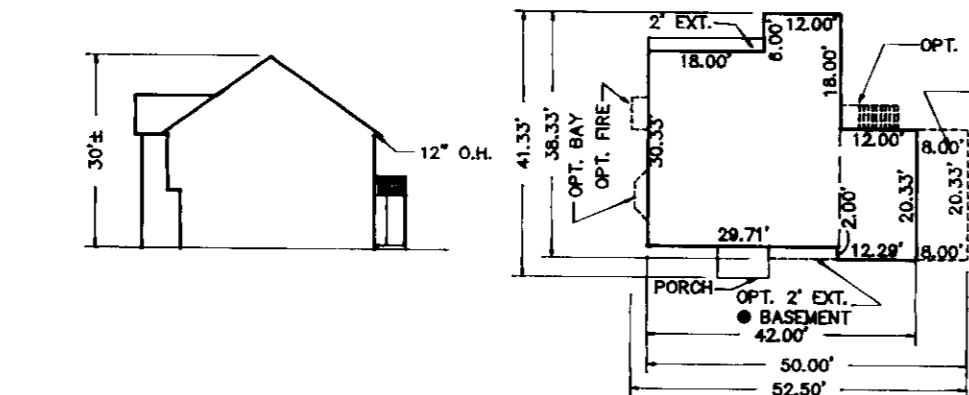
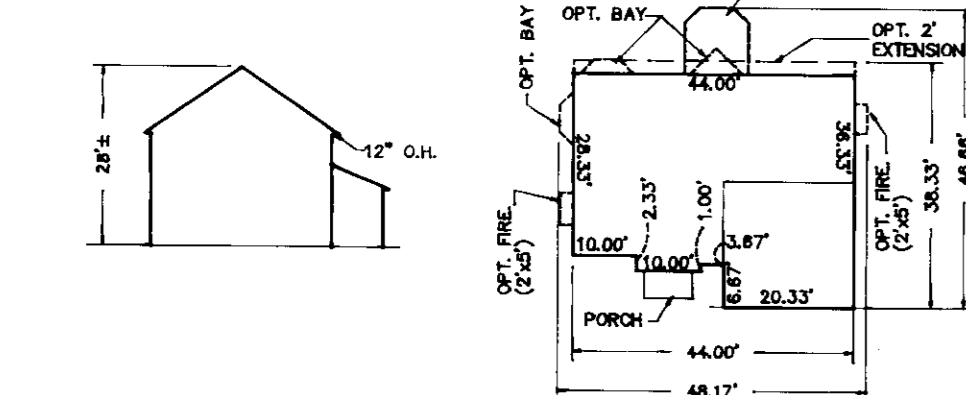
LOT AREA CHART

LOT NUMBER	AREA	LOT NUMBER	AREA
448	6300 S.F.	496	7994 S.F.
449	10407 S.F.	497	8721 S.F.
450	11960 S.F.	498	7350 S.F.
451	6300 S.F.	499	6301 S.F.
452	6300 S.F.	500	7599 S.F.
453	11960 S.F.	501(O.S.)	2207 S.F.
454	11960 S.F.	502	8965 S.F.
455	6301 S.F.	503	7108 S.F.
456	6468 S.F.	504	8092 S.F.
457	12136 S.F.	508	12750 S.F.
458	12225 S.F.		
459	7733 S.F.		
490	6441 S.F.		
491	6100 S.F.		
492	7350 S.F.		
493(O.S.)	2600 S.F.		
494	9082 S.F.		
495	8913 S.F.		

MIN. CELLAR ELEVATION**

LOT NO.	SHG INVERT E	MIN. CELLAR ELEVATION
448	276.6	280.0
449	275.4	281.0
450	274.6	280.3
451	272.6	276.0
452	270.2	273.6
453	268.9	274.6
454	268.2	273.9
455	269.9	269.3
456	264.9	268.3
457	264.4	268.4
458	264.2	268.2
459	257.4	261.1
490	259.9	263.1
491	360.3	263.5
492	260.7	263.9
494	260.4	263.6
495	261.7	265.3
496	261.7	265.3
497	263.2	266.7
498	262.3	265.6
499	264.2	267.4
500	266.3	269.6
502	266.1	269.5
503	267.8	271.0
504	267.8	271.2
508	269.1	272.8

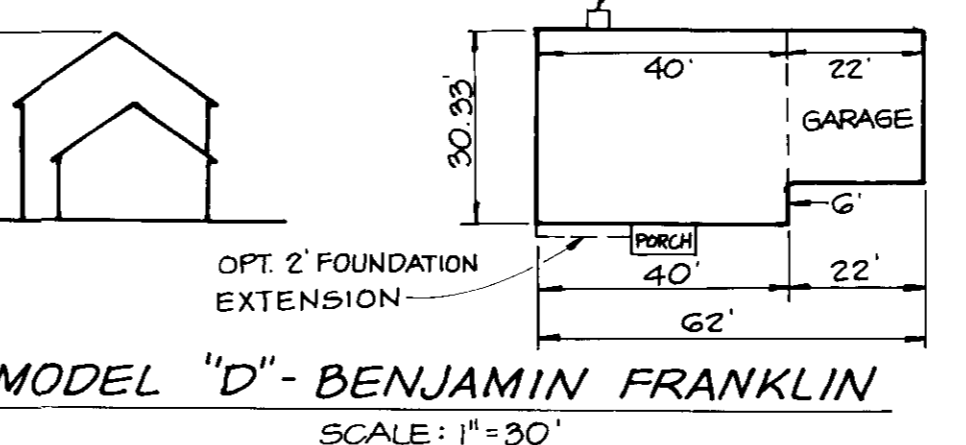
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APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING
 [Signature] 2/18/94
 DIRECTOR

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 FOR PUBLIC WATER & SEWERAGE, STORM
 DRAINAGE SYSTEMS AND ROADS
 [Signature] 7/20/94
 ADMIN. DIRECTOR

APPROVED: [Signature] 7/20/94
 CHIEF, DIVISION OF LAND DEVELOPMENT
 AND RESEARCH



PERMIT INFORMATION CHART

SUBDIVISION NAME		SECTION 3, AREA 2			
SECT./AREA	PARCEL #	LIBER & FOLIO	PREVIOUS FILE		
3/2	130, 131, & 132	L1427F, 284 L1827 F, 78	S-89-24P-91-08 F-92-82F-93-37 WP-91-76		
FLAT No.	BLK No.	ZONE	TAX MAP	ELEC. DIST.	GEN/SJ
11153, 11154 11155, 11158	16	R-SC	37	1st	6011.01
WATF	SEWER	SEWER	SEWER	SEWER	SEWER
2153000	008	008	008	008	008
SCALE: 1" = 30'	DATE: APRIL 1994				

MINIMUM LOT SIZE CHART

LOT NO	GROSS AREA	PIPESTEM AREA	REMAINING AREA	100 YR. FLOODPLAIN	25% SLOPE	MINIMUM LOT SIZE
449	10,407 S.F.	2000 S.F.	8,407 S.F.	0	0	8,407 S.F.
450	11,960 S.F.	2000 S.F.	9,960 S.F.	0	0	9,960 S.F.
451	6,300 S.F.	2000 S.F.	4,300 S.F.	0	0	4,300 S.F.
452	6,300 S.F.	2000 S.F.	4,300 S.F.	0	0	4,300 S.F.
453	11,960 S.F.	2000 S.F.	9,960 S.F.	0	0	9,960 S.F.
454	12,136 S.F.	2176 S.F.	9,960 S.F.	0	0	9,960 S.F.
455	6,300 S.F.	2000 S.F.	4,300 S.F.	0	0	4,300 S.F.
456	6,468 S.F.	2000 S.F.	4,468 S.F.	0	0	4,468 S.F.
457	12,136 S.F.	2000 S.F.	10,136 S.F.	0	0	10,136 S.F.
458	12,225 S.F.	2000 S.F.	10,225 S.F.	0	0	10,225 S.F.
459	7,733 S.F.	2000 S.F.	5,733 S.F.	0	0	5,733 S.F.

ADDRESS CHART

LOT NUMBER	STREET ADDRESS	LOT NUMBER	STREET ADDRESS
448	6509 MEADOWFIELD COURT	492	6544 MEADOWFIELD COURT
449	6513 MEADOWFIELD COURT	493	OPEN SPACE
450	6517 MEADOWFIELD COURT	494	6540 MEADOWFIELD COURT
451	6521 MEADOWFIELD COURT	495	6536 MEADOWFIELD COURT
452	6525 MEADOWFIELD COURT	496	6532 MEADOWFIELD COURT
453	6529 MEADOWFIELD COURT	497	6528 MEADOWFIELD COURT
454	6533 MEADOWFIELD COURT	498	6524 MEADOWFIELD COURT
455	6537 MEADOWFIELD COURT	499	6520 MEADOWFIELD COURT
456	6541 MEADOWFIELD COURT	500	6516 MEADOWFIELD COURT
457	6545 MEADOWFIELD COURT	501	OPEN SPACE
458	6549 MEADOWFIELD COURT	502	6512 MEADOWFIELD COURT
459	6553 MEADOWFIELD COURT	503	6508 MEADOWFIELD COURT
490	6557 MEADOWFIELD COURT	504	6504 MEADOWFIELD COURT
491	6548 MEADOWFIELD COURT	508	6514 GREENMOUNT DRIVE

REVISION

NO	DATE	REVISION
1	4/95	ADD NEW HSE. TYPE TO PLAN
2	3/95	ADD 2 NEW HOUSE TYPES TO PLAN
3	6/27/94	REVISED DPZ/DPW/SCS COMMENTS-SUBMIT FOR SIGNATURES
4	1/28/96	ADD A REWAY TO PATRICK HENRY

TSA GROUP, INC.
 planning • architecture • engineering
 8480 Baltimore National Pike • Ellicott City, Maryland 21043 • (410) 460-9106

OWNER: SECURITY DEVELOPMENT CORP.
 P.O. BOX 417
 ELLICOTT CITY, MARYLAND 21043
 (410)465-4244

DEVELOPER: PATRIOT HOMES
 P.O. BOX 1018
 COLUMBIA, MARYLAND 21044
 (410)997-5522

PROJECT: WILLOWOOD
 SECTION 3, AREA 2
 LOTS 448-459, LOTS 490-504 & LOT 508

LOCATION: TAX MAP 27-PARCELS 130, 131 & 132
 1st ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

TITLE: GENERIC SITE DEVELOPMENT PLAN
 (COVER SHEET)

DATE: APRIL 1994 PROJECT NO. 0680

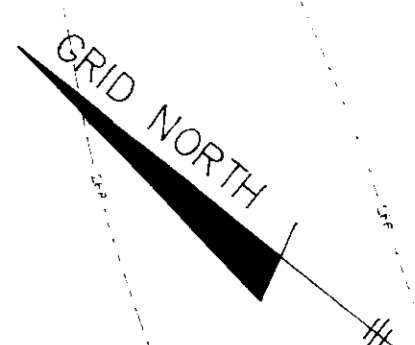
SCALE: 1" = 30' DRAWING 1 OF 1

LEGEND

CONTOUR INTERVAL	2 FEET
EXISTING CONTOUR	200' 200'
PROPOSED CONTOUR	x 56.23
DIRECTION OF DRAINAGE	→
EXISTING SEWER	—○—○—
EXISTING WATER MAIN	—○—○—
EXISTING STORM DRAIN	—○—○—
PROPOSED TREE LINE	—○—○—
EXISTING TREE LINE	—○—○—
WALKOUT BASEMENT	▭
PROPOSED DRIVEWAY	▭
INGRESS/EGRESS EASEMENT	▭
UTILITY EASEMENT	▭

PLANT LIST FOR LOTS 453-454, & 457-458

SYMBOL	QUANTITY	NAME	REMARKS
☉	6	QUERCUS RUBRA RED OAK	2-1/2" MINIMUM CALIPER B & B
☉	8	PINUS STROBUS WHITE PINE	4'-6" HEIGHT B & B



PERIMETER LANDSCAPE EDGE FOR LOTS 453-454, & 457-458

CATEGORY	ADJACENT TO ROADWAY
LANDSCAPE TYPE	B
LINEAR FEET OF ROADWAY FRONTAGE/PERIMETER	332'
CREDIT FOR EXISTING VEGETATION	10'
CREDIT FOR WALL, FENCE OR BERM	0'
NUMBER OF PLANTS REQUIRED	6(1:50) SHADE TREES EVERGREEN TREES SHRUBS
NUMBER OF PLANTS PROVIDED	6 SHADE TREES EVERGREEN TREES SHRUBS

PLANT LIST*

SYMBOL	QUANTITY	NAME	REMARKS
☉	22	QUERCUS RUBRA RED OAK	2-1/2" MINIMUM CALIPER B & B

* PER PLANTING PLAN (F-93-37) -- TO BE PLANTED BY BUILDER UNDER THIS SDP. TREES ARE TO BE A MINIMUM OF 4' OFF SIDEWALK

NO.	DATE	REVISION
2	2/21/94	REVISED HOUSE SITING LOT 497
1	6/27/94	REVISED DPZ/DPW/SCS COMMENTS--SUBMIT FOR SIGNATURES
NO.	DATE	REVISION
3	3/05	REVISED HSE SITING LOTS 442 & 451
4	4/05	REV HSE SITING LOT 454
5	4/05	REV HSE SITINGS FOR LOTS 450, 490 & 504
6	6/05	REV HSE SITINGS FOR LOTS 490 & 503

TSA GROUP, INC.
planning • architecture • engineering
6400 Baltimore National Pike • Ellicott City, Maryland 21043 • (410) 486-8106

PERMIT INFORMATION CHART

SUBDIVISION NAME	WILLOWOOD
SECTION, AREA	SECTION 3, AREA 2
LOTS	LOTS 448-459, LOTS 490-504 & LOT 508
SECT. AREA	3/2
PARCEL #	130, 131, & 132
LIBER & FOLIO	L1427F. 284 L1827 F. 78
PREVIOUS FILE	S-89-24-P-91-08 F-92-82-F-93-37 WP-91-76
PLAT No.	11153, 11154
BLOCK No.	16
ZONE	R-SC
TAX MAP	37
ELEC. DIST.	1st
CENSUS	6011.01
WATER CODE	215300
SEWER CODE	D06
SCALE:	1"=30'
DATE:	APRIL 1994

OWNER: SECURITY DEVELOPMENT CORP. P.O. BOX 417 ELICOTT CITY, MARYLAND 21043 (410)465-4244	PROJECT: WILLOWOOD SECTION 3, AREA 2 LOTS 448-459, LOTS 490-504 & LOT 508
DEVELOPER: PATRIOT HOMES P.O. BOX 1018 COLUMBIA, MARYLAND 21044 (410)997-5522	LOCATION: TAX MAP 37-PARCELS 130, 131 & 132 1st ELECTION DISTRICT HOWARD COUNTY, MARYLAND
TITLE: GENERIC SITE DEVELOPMENT PLAN	DATE: APRIL 1994
DES: YSL/CAM	DRN: YSL
SCALE: 1"=30'	PROJECT NO. 0680
	DRAWING 2 OF 4

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING
Richard Blood 8/3/94
 DIRECTOR, DIVISION OF LAND DEVELOPMENT AND RESEARCH

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS FOR PUBLIC WATER & SEWERAGE, STORM DRAINAGE SYSTEMS AND ROADS
Elizabeth Anderson Calia 7/28/94
 CHIEF, BUREAU OF ENGINEERING

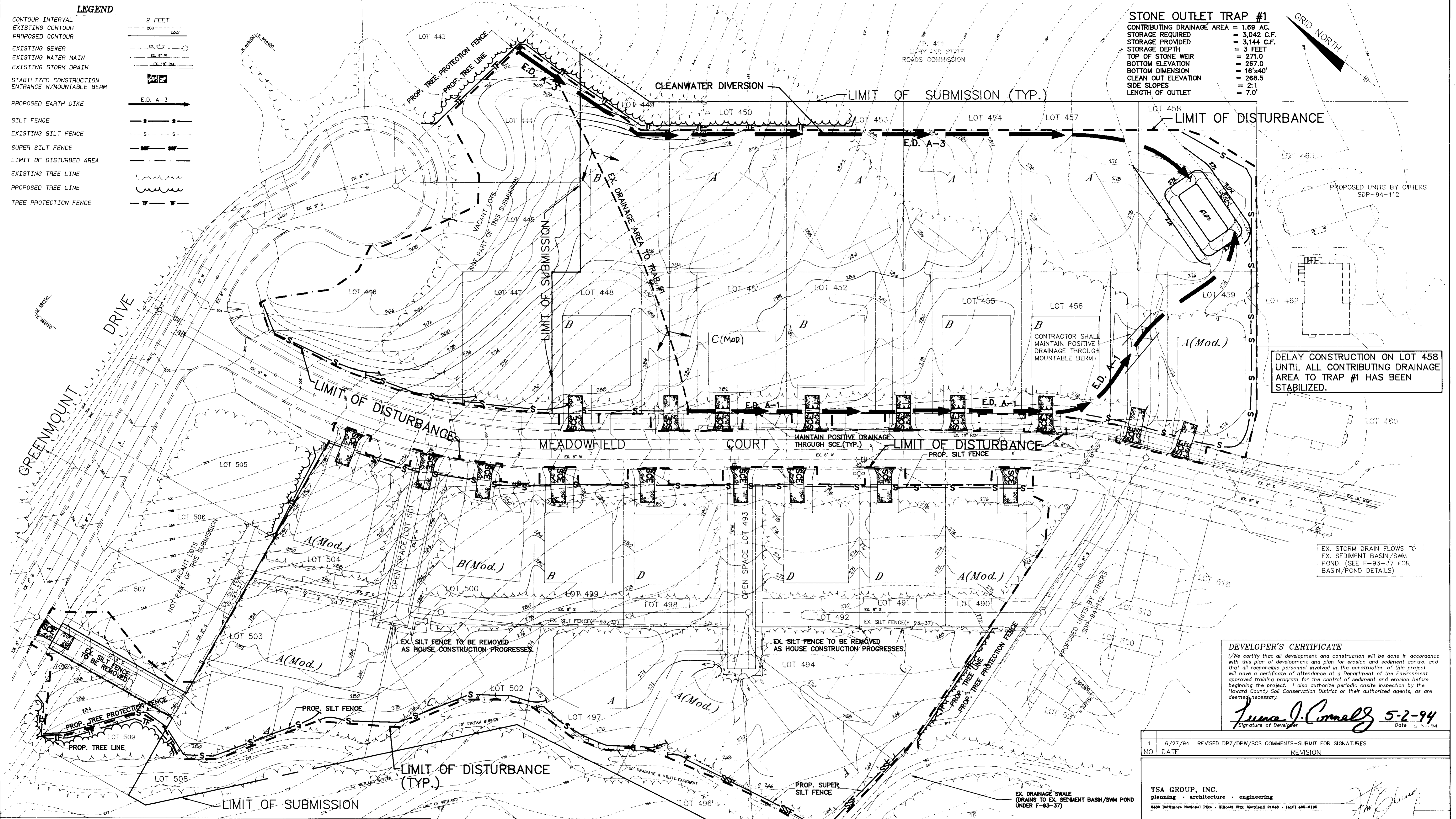
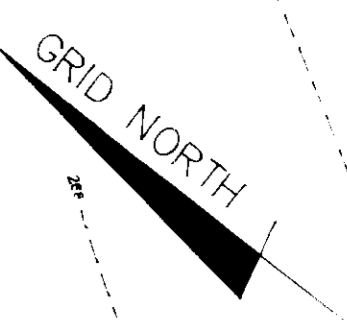
PLAN VIEW
SCALE: 1"=30'

NOTE: SEE HOUSE MATRIX FOR HOUSE TYPES AND/OR OPTIONS

LEGEND

CONTOUR INTERVAL	2 FEET
EXISTING CONTOUR	--- 200 --- 100
PROPOSED CONTOUR	---
EXISTING SEWER	EX. 6" S
EXISTING WATER MAIN	EX. 6" W
EXISTING STORM DRAIN	EX. 18" SD
STABILIZED CONSTRUCTION ENTRANCE W/MOUNTABLE BERM	[Symbol]
PROPOSED EARTH DIKE	E.D. A-3
SILT FENCE	[Symbol]
EXISTING SILT FENCE	S
SUPER SILT FENCE	[Symbol]
LIMIT OF DISTURBED AREA	[Symbol]
EXISTING TREE LINE	[Symbol]
PROPOSED TREE LINE	[Symbol]
TREE PROTECTION FENCE	[Symbol]

STONE OUTLET TRAP #1
 CONTRIBUTING DRAINAGE AREA = 1.69 AC.
 STORAGE REQUIRED = 3,042 C.F.
 STORAGE PROVIDED = 3,144 C.F.
 STORAGE DEPTH = 3 FEET
 TOP OF STONE WEIR = 271.0
 BOTTOM ELEVATION = 267.0
 BOTTOM DIMENSION = 16'x40'
 CLEAN OUT ELEVATION = 268.5
 SIDE SLOPES = 2:1
 LENGTH OF OUTLET = 7.0'



DEVELOPER'S CERTIFICATE
 I/We certify that all development and construction will be done in accordance with this plan of development and plan for erosion and sediment control and that all responsible personnel involved in the construction of this project will have a certificate of attendance at a Department of the Environment approved training program for the control of sediment and erosion before beginning the project. I also authorize periodic onsite inspection by the Howard County Soil Conservation District or their authorized agents, as are deemed necessary.
Juno J. Connolly 5-2-94
 Signature of Developer Date

NO	6/27/94	REVISED DPZ/DPW/SCS COMMENTS-SUBMIT FOR SIGNATURES
NO	DATE	REVISION

TSA GROUP, INC.
 planning • architecture • engineering
 6680 Baltimore National Pike • Ellicott City, Maryland 21043 • (410) 468-4106

APPROVED: REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.
Patricia Angler 7/25/94
 U. S. SOIL CONSERVATION SERVICE DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING
Kevin S. Hayes 8/4/94
 DIRECTOR DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF LAND DEVELOPMENT AND RESEARCH
Kathleen Blood 8/3/94
 CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH DATE

APPROVED: THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.
John P. Robertson 7/25/94
 HOWARD COUNTY SOIL CONSERVATION DISTRICT DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS FOR PUBLIC WATER & SEWERAGE, STORM DRAINAGE SYSTEMS AND ROADS
John M. Langston 7/24/94
 DIRECTOR DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS FOR PUBLIC WATER & SEWERAGE, STORM DRAINAGE SYSTEMS AND ROADS
Elizabeth Anderson-Cox 7/28/94
 CHIEF, BUREAU OF ENGINEERING DATE

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 County Soil Conservation District.
John P. Robertson 7/25/94
 Date

PERMIT INFORMATION CHART

SUBDIVISION NAME WILLOWOOD			
SECTION 3, AREA 2 LOTS 448-459, LOTS 490-504 & LOT 508			
SECT., AREA 3/2	PARCEL # 130, 131, & 132	LIBER & FOLIO L1427F. 284 L1827 F. 78	PREVIOUS FILE: S-89-24P-91-08 F-92-82F-93-37 WP-91-76
PLAT No. 11153, 11154 11155, 11156	BLOCK No. 16	ZONE R-SC	TAX MAP 37
ELEC. DIST. 1st		GENSVS 6011.01	
WATER CODE 2153000		SEWER CODE D06	
SCALE: 1"=30'		DATE: APRIL 1994	

OWNER: SECURITY DEVELOPMENT CORP.
 P.O. BOX 417
 ELLICOTT CITY, MARYLAND 21043
 (410)465-4244

PROJECT: **WILLOWOOD**
 SECTION 3, AREA 2
 LOTS 448-459, LOTS 490-504 & LOT 508
 1st ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

DEVELOPER: PATRIOT HOMES
 P.O. BOX 1018
 COLUMBIA, MARYLAND 21044
 (410)997-5522

TITLE: **SEDIMENT & EROSION CONTROL PLAN**

DATE: APRIL 1994 PROJECT NO. 0680
 SCALE: 1"=30' DRAWING NO. 3 OF 4

DES: YSL/CAM DRN: YSL

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, discing or other acceptable means before seeding. (If not previously loosened)

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

Seeding: For periods March 1 through April 30 and from August 15 through November 15, seed with 2-1/2 bushel per acre of annual rye (3.2 lbs/1000 sf). For the period May 1 through August 14, seed with 3 lbs per acre of Weeping Lovegrass (0.07 lbs/1000 sf). For the period November 16 through February 28, protect site by applying 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring, or use sod.

Mulching: Apply 1-1/2 to 2 tons per acre (70 to 90 lbs/1000 sf) 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 sf) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gallons per acre (8 gal/1000 sf) for anchoring.

Refer to the 1983 Maryland Standards and Specifications for Soil Erosion and Sediment Control for rate and methods not covered.

PERMANENT SEEDING NOTES

Apply to graded or cleared area not subject to immediate further disturbance where a permanent long-lived vegetative cover is needed.

Seedbed Preparation: Loosen upper three inches of soil by raking, discing or other acceptable means before seeding. (If not previously loosened)

Soil Amendments: In lieu of soil test recommendations, use on the following schedules.

- 1) Preferred - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 sf) and 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sf) 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 (9 lbs/1000 sf).
- 2) Acceptable - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 sf) and 1000 lbs per acre 10-10-10 fertilizer (23 lbs/1000 sf) before seeding. Harrow or disc into upper three inches of soil.

Seeding: For the period March 1 through April 30 and August 1 through October 15, seed with 60 lbs per acre (1.4 lbs/1000 sf) of Kentucky 31 Tall Fescue. For the period May 1 through July 31, seed with 60 lbs Kentucky 31 Tall Fescue per acre and 2 lbs per acre (0.05 lbs/1000 sf) of Weeping Lovegrass. During the period of October 1 through 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 1-1/2 to 2 tons per acre (70 to 90 lbs/1000 sf) 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 sf) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gallons per acre (8 gal/1000 sf) for anchoring.

Maintenance: Inspect seeded areas and make needed repairs, replacements and reseedings.

SEDIMENT CONTROL NOTES

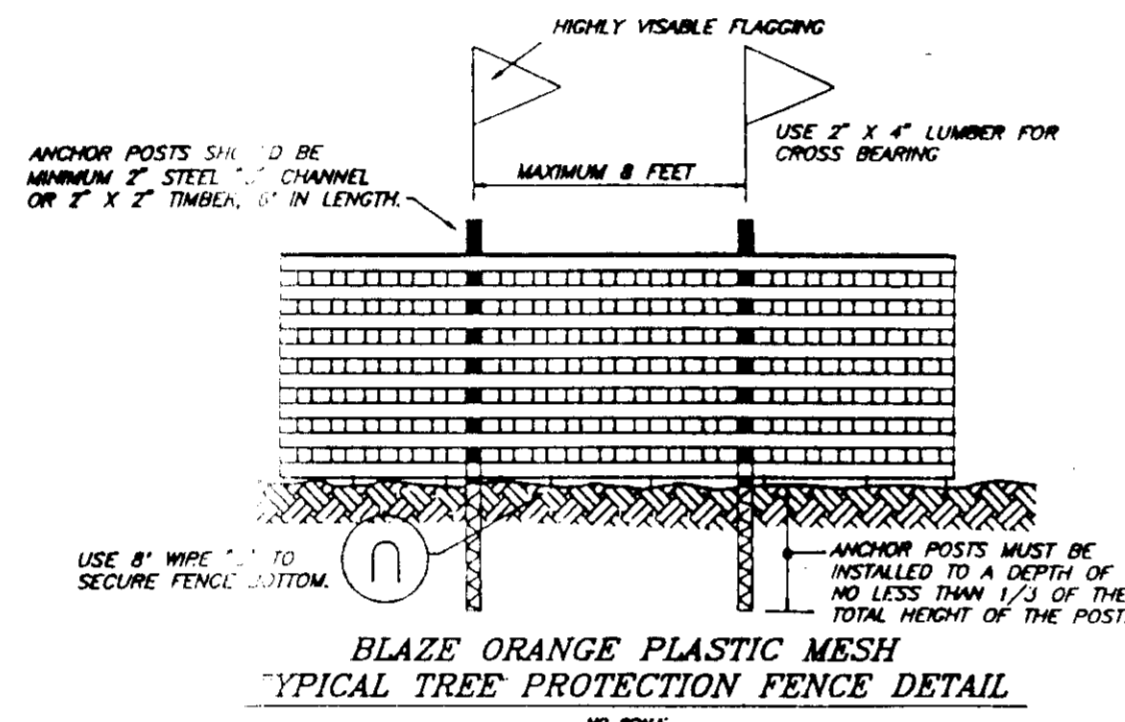
1. A minimum of 24 hours notice must be given to the Howard County Office of Inspections and Permits prior to the start of any construction. (313-1855)
 2. All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the 1983 Maryland Standards and Specifications for Soil Erosion and Sediment Control.
 3. Following initial soil disturbances 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 calendar days as to all other disturbed or graded areas on the project site.
 4. 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) Sod (Sec. 54), Temporary Seeding (Sec. 50) and Mulching (Sec. 52). Temporary stabilization with mulch alone can only be done when recommended seeding dates do not allow for proper germination and establishment of grasses.
 5. 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.
 6. Site Analysis:
Total Area of Site: 5.24 acres
Area to be Disturbed: 5.62 acre
Area to be roofed or paved: 1.41 acre
Area to be vegetatively stabilized: 4.21 acre
Total Cut: 13,267 cy.
Total Fill: 9,100 cy.
Offsite Waste/Borrow Area Location: *
 7. Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
 8. Additional sediment controls must be provided, if deemed necessary by the Howard County DPW Sediment Control Inspector.
 9. Quantities and estimates shown are for sediment control purposes only. Contractor shall prepare his own quantity estimates to his satisfaction.
- * It is the responsibility of the contractor to identify the spoil/borrow site and notify and gain approval from the sediment control inspector of the site and its grading permit number at the time of construction.

SEQUENCE OF CONSTRUCTION

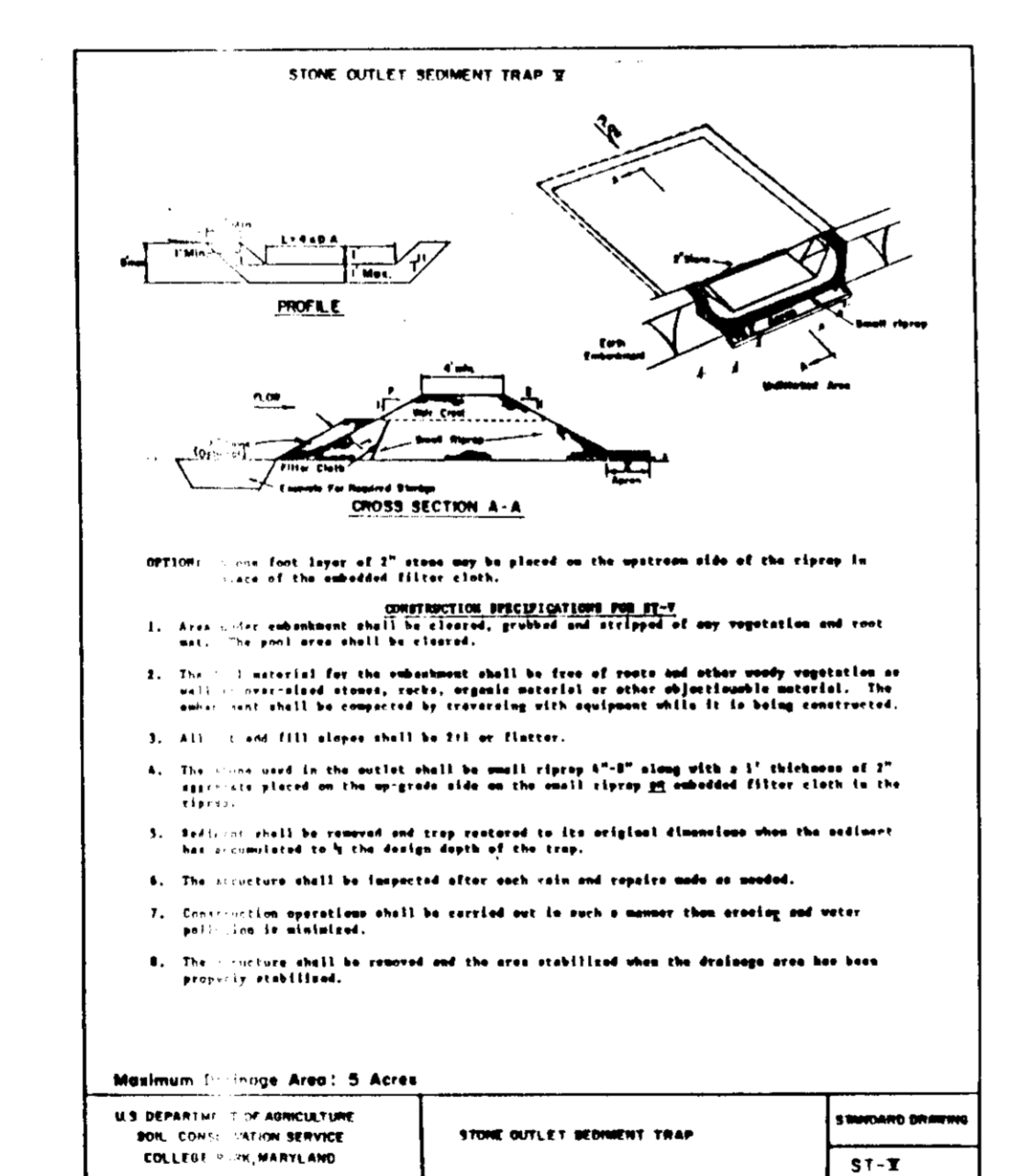
Notify Sediment Control Division 48 hours prior to start of constructions.

1. Obtain grading permit
2. Clear and grub the site as indicated in this plan.
3. Inspect existing sediment and erosion control devices and repair or re-install them if required. (see E-93-37)
4. Install new sediment and erosion control devices and stabilize.
- * 5. Excavate for foundations, rough grade and temporarily stabilize.
- * 6. Construct structures and driveways.
7. Final grade and stabilize in accordance with standards and specifications.
8. Upon approval of the sediment control inspector, remove sediment and erosion control devices and stabilize.

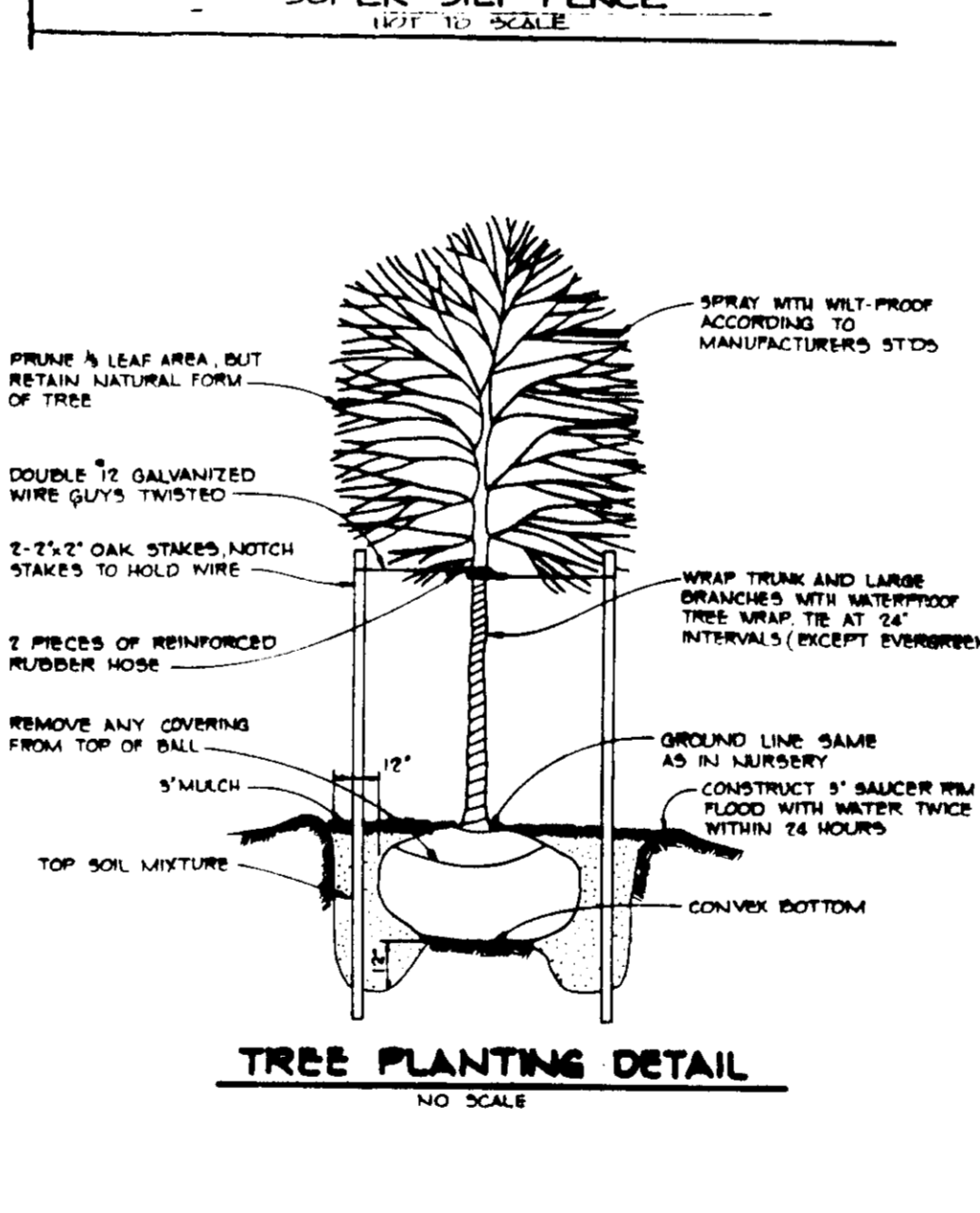
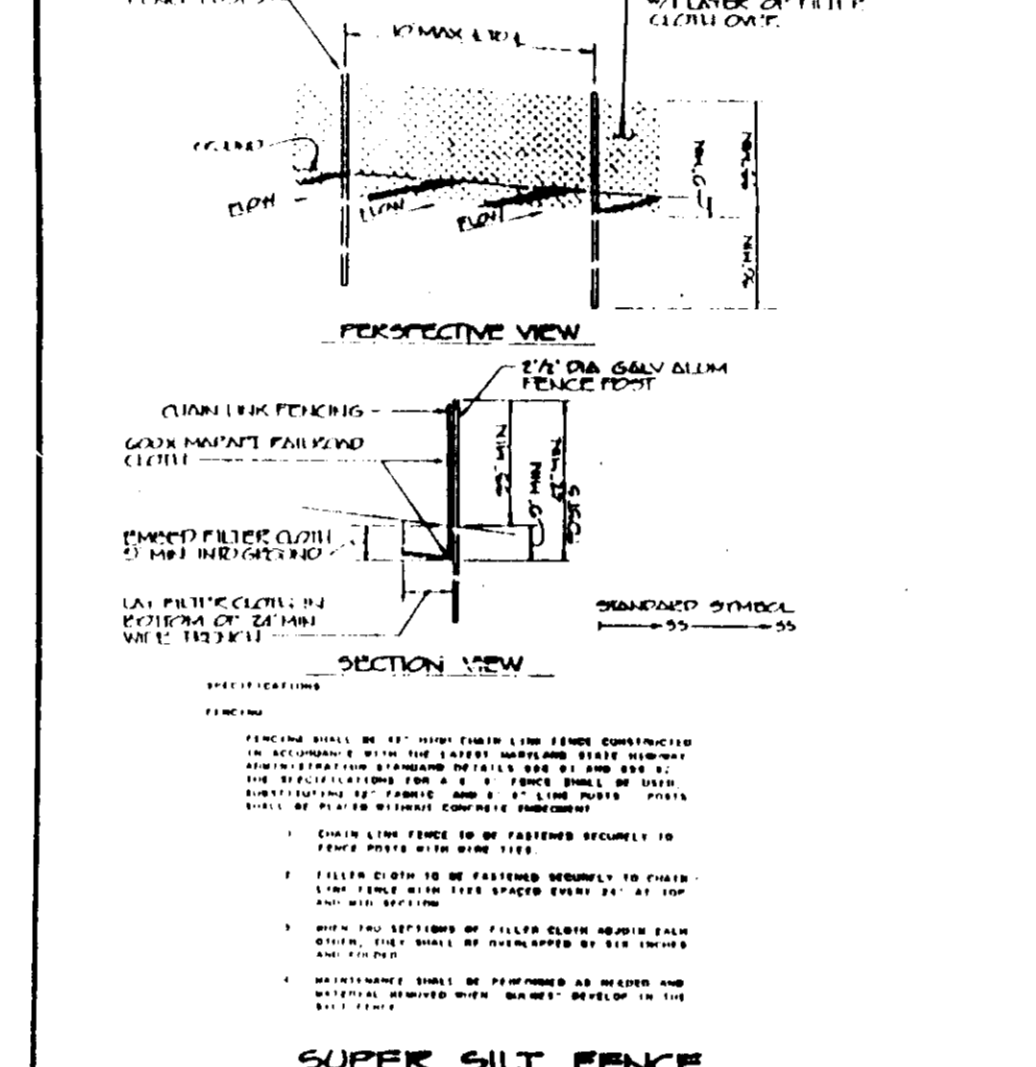
* DELAY CONSTRUCTION ON LOT 458 UNTIL SEDIMENT TRAP HAS BEEN REMOVED



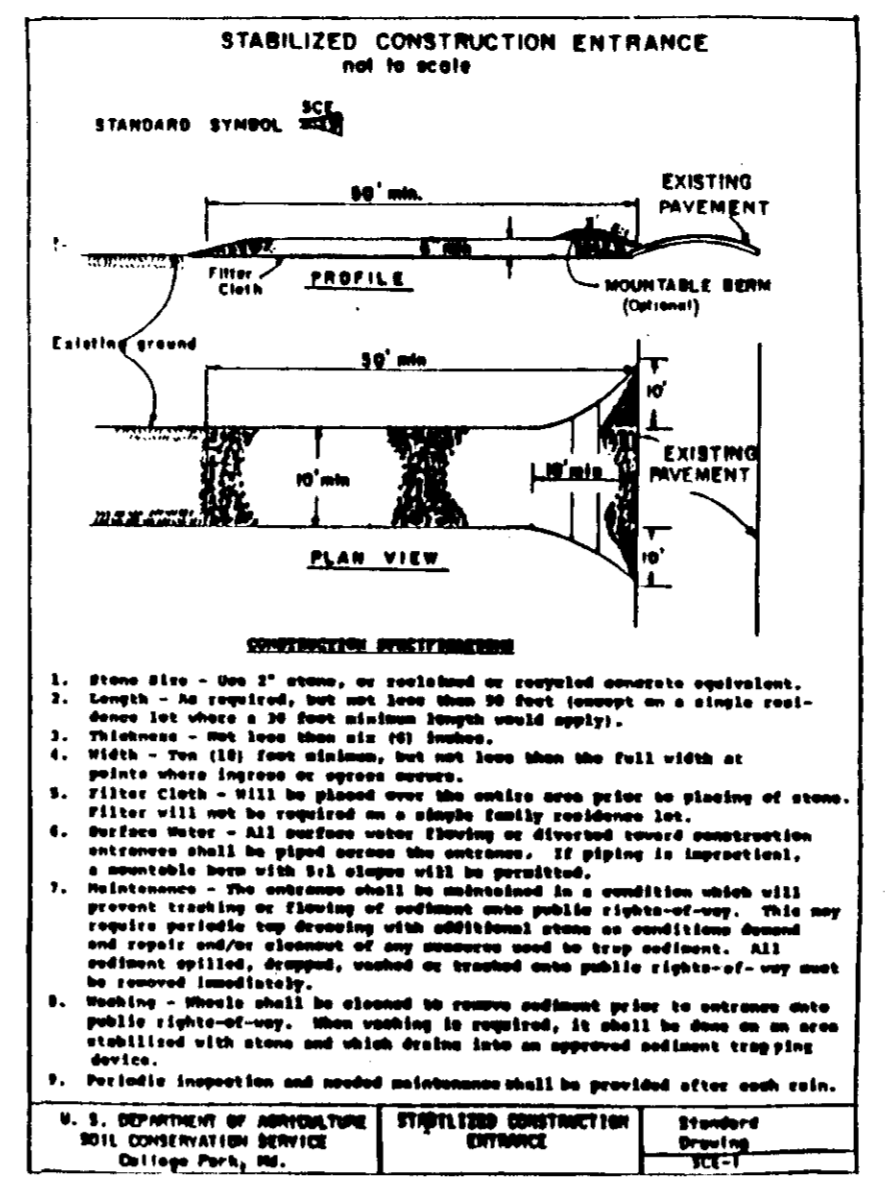
- BLAZE ORANGE PLASTIC MESH TYPICAL TREE PROTECTION FENCE DETAIL**
- NO SCALE
- NOTES:
1. Fences are to be installed in accordance with the 1983 Maryland Standards and Specifications for Soil Erosion and Sediment Control.
2. Retention area will be not set part of the fence problem.
3. Boundaries of retention areas should be staked and flagged prior to installing devices.
4. Root damage should be avoided.
5. Protection signs may also be used.
6. Device should be maintained throughout construction.



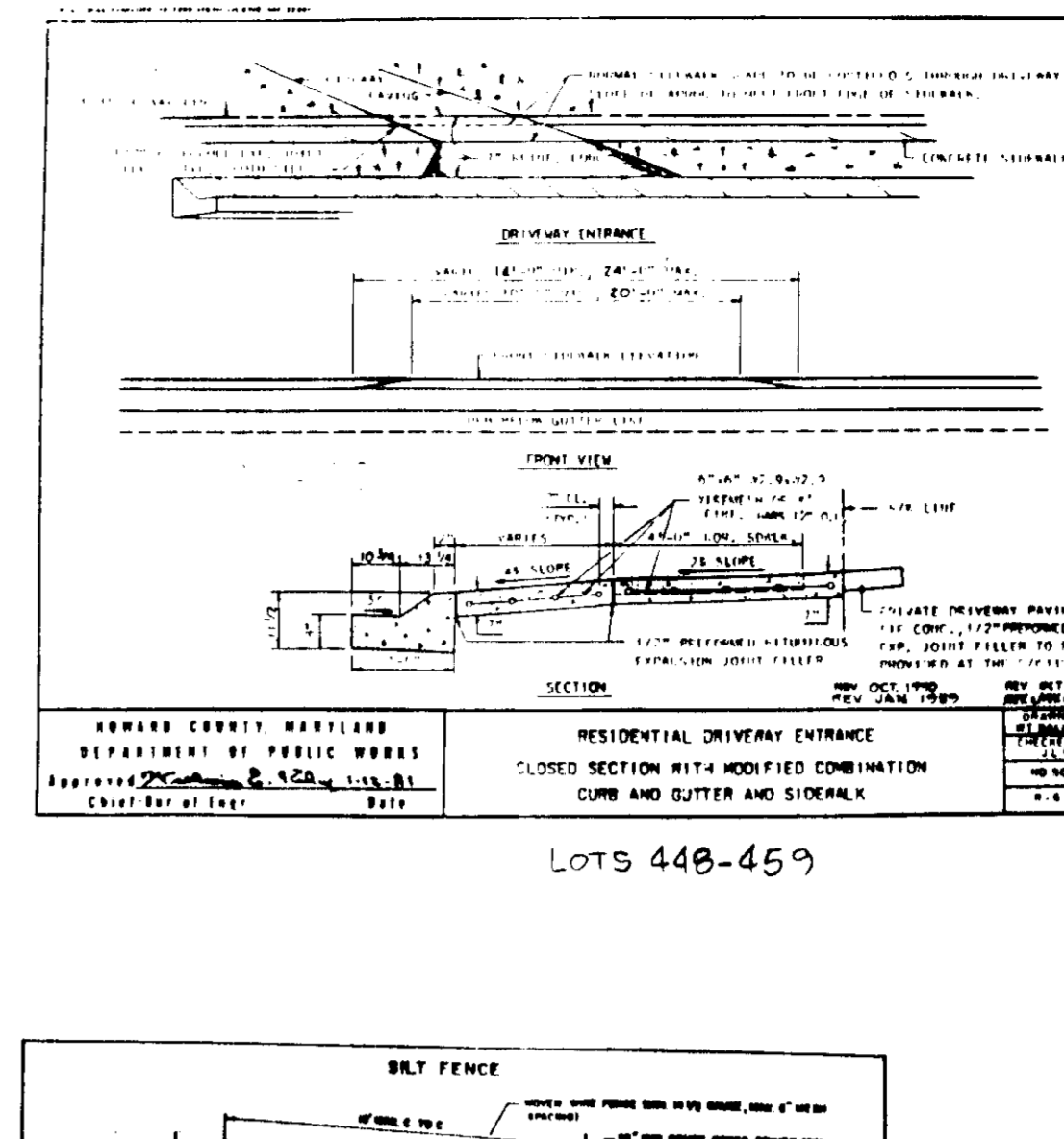
STONE OUTLET SEDIMENT TRAP
ST-X



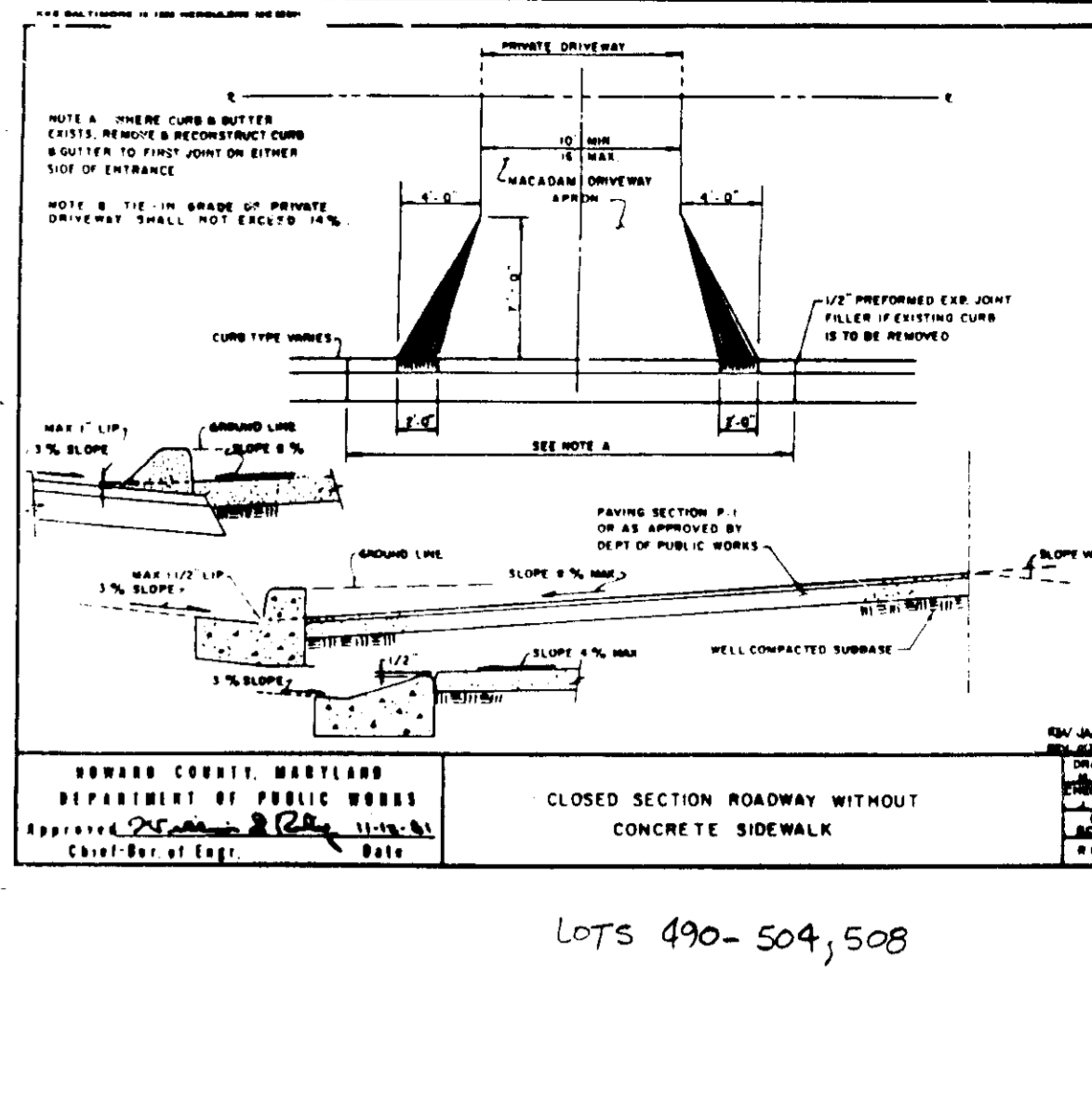
TREE PLANTING DETAIL
NO SCALE



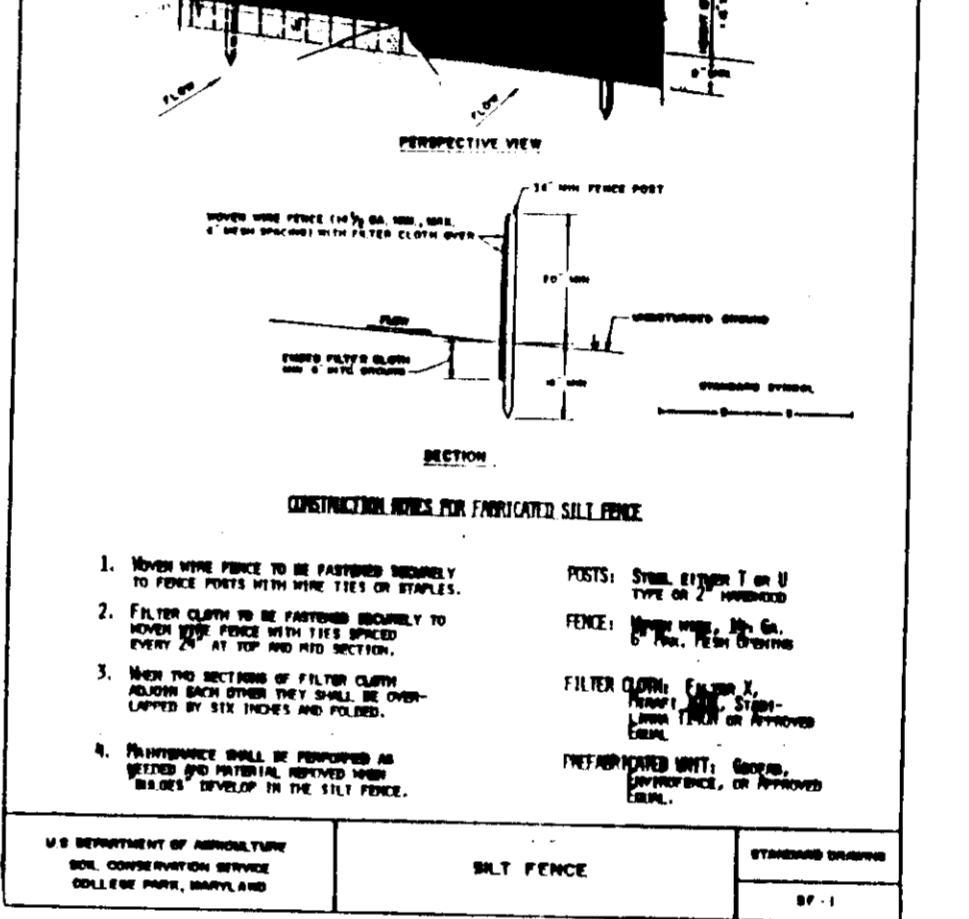
STABILIZED CONSTRUCTION ENTRANCE
NOT TO SCALE



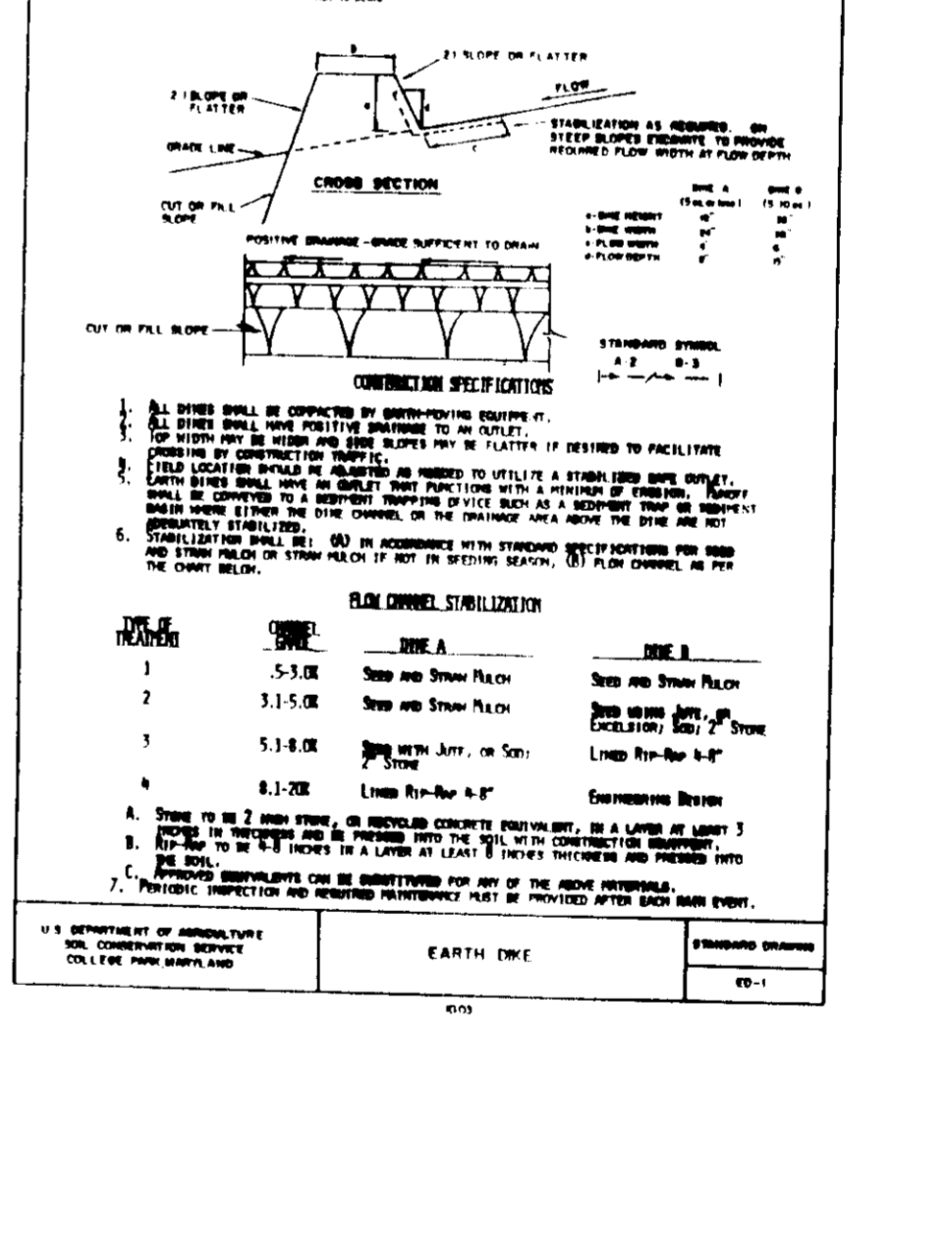
RESIDENTIAL DRIVEWAY ENTRANCE
CLOSED SECTION WITH MODIFIED CURB AND FILTER AND SIDEWALK
LOTS 448-459



CLOSED SECTION CONCRETE SIDEWALK WITHOUT
CONCRETE SIDEWALK
LOTS 490-504, 508



SILT FENCE
STANDARD DRAWING
SP-1



PLAN CHANNEL STABILIZATION
STANDARD DRAWING
SP-2

DEVELOPER'S CERTIFICATE

I/We certify that all development and construction will be done in accordance with this plan of development and plan for erosion and sediment control and that all responsible personnel involved in the construction of this project will have a certificate of attendance at a Department of the Environment approved training program for the control of sediment and erosion before beginning the project. I also authorize periodic onsite inspection by the Howard County Soil Conservation District or their authorized agents, as are deemed necessary.

James J. Conolly 5-2-94
Signature of Developer Date

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 County Soil Conservation District.

John J. ...
Signature of Engineer Date

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

John J. ... 7/25/94
HOWARD SOIL CONSERVATION DISTRICT DATE

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

Patricia ... 7/25/94
U. S. SOIL CONSERVATION SERVICE DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING
... 8/4/94
DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS FOR PUBLIC WATER & SEWERAGE, STORM DRAINAGE SYSTEMS AND ROADS
... 7/28/94
DATE

APPROVED: CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH
... 8/3/94
DATE

APPROVED: CHIEF, BUREAU OF ENGINEERING
... 7/28/94
DATE

PERMIT INFORMATION CHART

SUBDIVISION NAME: WILLOWOOD
SECTION 3, AREA 2
LOTS 448-459, LOTS 490-504 & LOT 508

SECT./AREA	PARCEL #	LIBER & FOLIO	PREVIOUS FILE:		
3/2	130, 131, & 132	L.1427F. 284 L.1827 F. 78	S-89-24P-91-08 F-92-82F-93-37 W-91-78		
PLAT No.	BLOCK No.	ZONE	TAX MAP	ELEC. DIST.	GENSUS
11153, 11154 11155, 11156	16	R-SC	37	1st	6011.01
WATER CODE	SI WFR CODE	DATE:			
7153000	DNB	APRIL 1994			
SCALE:	DATE:				
1"=30'	APRIL 1994				

OWNER: SECURITY DEVELOPMENT CORP.
P.O. BOX 417
ELLCOTT CITY, MARYLAND 21043
(410)465-4244

DEVELOPER: PATRIOT HOMES
P.O. BOX 1018
COLUMBIA, MARYLAND 21044
(410)997-5522

DES: YSL/CAM **DRN:** YSL

PROJECT: WILLOWOOD
SECTION 3, AREA 2
LOTS 448-459, LOTS 490-504 & LOT 508

LOCATION: TAX MAP 37-PARCELS 130, 131 & 132
1st ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

TITLE: SEDIMENT & EROSION CONTROL NOTES AND DETAILS

DATE: APRIL 1994 **PROJECT NO.:** 0680

SCALE: 1"=30' **DRAWING:** 4 OF 4