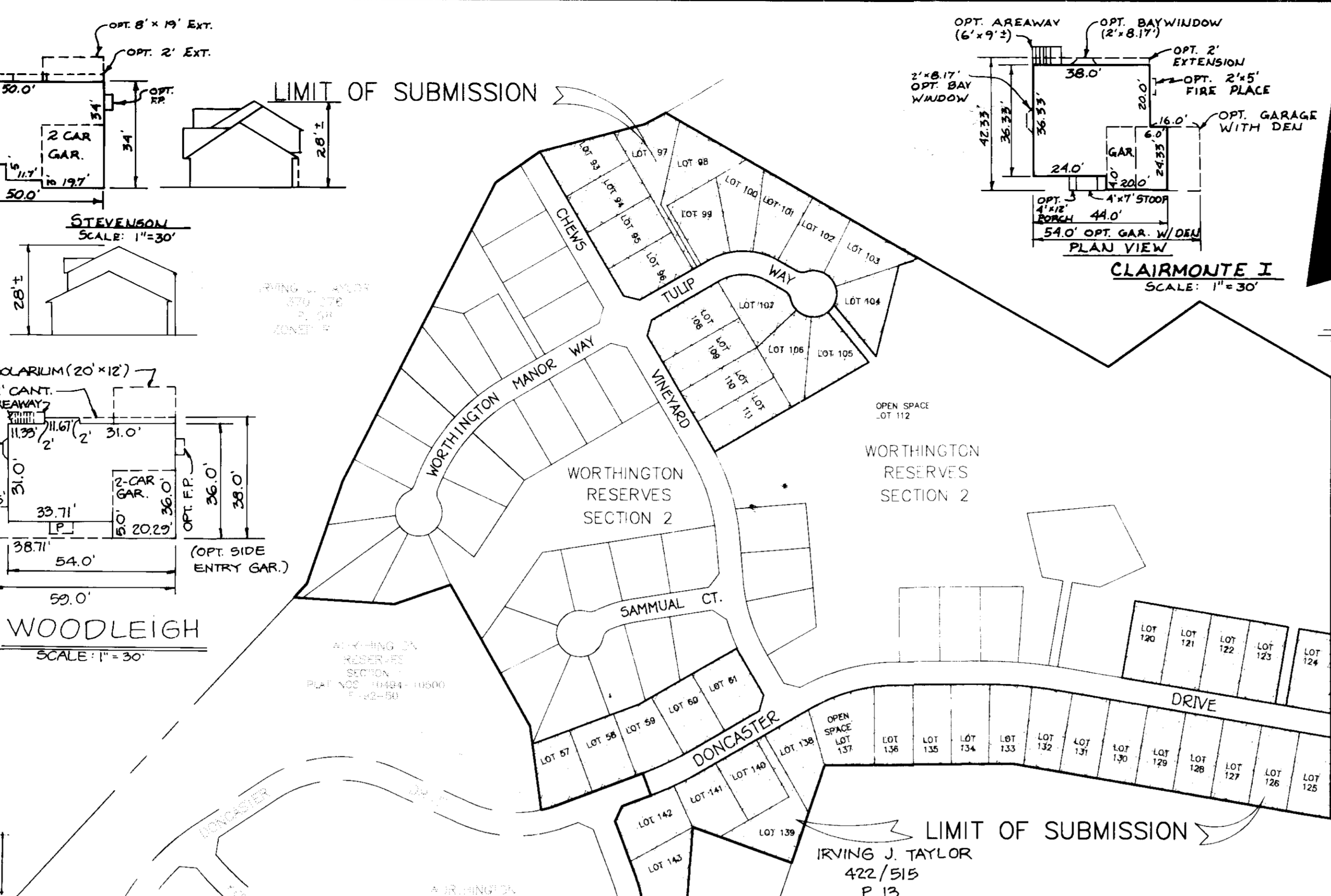


GENERAL NOTES

- SUBJECT PROPERTY IS ZONED R-20 PER 10-18-93 COMPREHENSIVE ZONING PLAN THE TOTAL AREA INCLUDED IN THIS SUBMISSION IS 15.877 ACRES
- THE TOTAL NUMBER OF LOTS INCLUDED IN THIS SUBMISSION IS 48 TOTAL BUILDABLE LOTS ARE 47
- IMPROVEMENT TO THE PROPERTY: SINGLE FAMILY DETACHED UTILITIES SHOWN AS EXISTING ARE TAKEN FROM APPROVED WATER AND SEWER PLAN CONTRACT #14-3358-D AND #14-3375-D, AND APPROVED ROAD CONSTRUCTION PLANS F-92-50 AND F-94-102
- ANY DAMAGE TO THE COUNTY/STATE OWNED RIGHT-OF-WAY SHALL BE CORRECTED AT THE DEVELOPER'S/BUILDER'S EXPENSE
- THE EXISTING TOPOGRAPHY WAS TAKEN FROM ROAD CONSTRUCTION PLANS (F-94-102) 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-83 - HOWARD COUNTY MONUMENT NOS. 2944001 AND 2944002
- 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 EXCAVATION WORKS
- THE CONTRACTOR SHALL VERIFY LOCATION OF UTILITIES AND EASEMENTS PRIOR TO THE CONSTRUCTION
- 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 DRIVEWAY FOR LOTS 97 AND 98 WAS RECORDED IN LIBERTY 3130 AT FOLIO 518
- DRIVEWAYS SHALL BE PROVIDED PRIOR TO THE RESIDENTIAL OCCUPANCY TO INSURE SAFE ACCESS FOR FIRE AND EMERGENCY VEHICLES PER THE FOLLOWING MINIMUM REQUIREMENTS:
 - A: WIDTH: 12' (26' SERVING MORE THAN ONE RESIDENCE)
 - B: SURFACE: 6" OF COMPACT CRUSHER RUN BASE W/TAR AND CHIP COATING
 - C: GEOMETRY: MAX. 15% DRIVEWAY GRADE, MAX. 10% GRADE CHANGE
- WHERE COMMON DRIVEWAYS ARE PROPOSED, HOUSE NUMBER SIGNS SHALL BE PLACED AT EACH LOT ENTRANCE INDICATING THE RANGE OF STREET ADDRESS & HOUSE NUMBERS
- PLACED WHERE THE COMMON DRIVEWAY INTERSECTS WITH THE MAIN ROAD
- STORMWATER MANAGEMENT FOR THIS SUBMISSION IS PROVIDED FACILITY AND (2) AN EXTENDED DETENTION FACILITY (SHALLOW MARSH FOR QUANTITY AND QUALITY CONTROL). ALL STORMWATER MANAGEMENT FACILITIES ARE TO BE PUBLICLY MAINTAINED. (SEE F-94-102)
- FLOODPLAIN STUDY COMPLETED BY TSA GROUP, INC. 9/92 AND APPROVED 10/28/93
- WETLAND DELINEATION COMPLETED BY W.A. STIRKES & CO., 9/92 AND APPROVED BY 10/28/93
- TRAFFIC STUDY COMPLETED BY LEE CUNNINGHAM & ASSOC., 10/93 AT THE REQUEST OF THE NOISE STUDY NOT REQUIRED FOR THIS PROJECT
- GEOTECHNICAL REPORT COMPLETED BY AT&C ASSOC., INC. 10/92 AND APPROVED 10/26/93
- NO CLEARING, GRADING OR CONSTRUCTION IS PERMITTED WITHIN THE WETLANDS, STREAM OR FOREST PRESERVATION AREAS EXCEPT FOR THE WORK ASSOCIATED WITH THE DONCASTER DRIVE AND CHEWS VINEYARD ROAD CROSSINGS AND STORMWATER MANAGEMENT FACILITIES AS REPRESENTED ON THIS PLAN
- THE DEPT. OF PUBLIC WORKS, BUREAU OF ENGINEERING HAS WAIVED THE MAXIMUM LENGTH ALLOWED FOR A TEMPORARY NON-THROUGH STREET AND REQUIREMENT FOR A SECOND ACCESS AS SPECIFIED IN SECTION 11.5.1 "TEMPORARY NON-THROUGH STREET" OF THE HOWARD COUNTY DESIGN MANUAL, VOLUME 111-ROAD AND BRIDGES
- ON DEC. 8, 1993, THE PLANNING DIRECTOR APPROVED WP-94-01, THE REQUEST TO WAIVE SECTION 16.144 FOR SUBMISSION OF SKETCH AND PRELIMINARY PLANS, SECTION 16.145 FOR SKETCH PLAN REQUIREMENTS AND SECTION 16.146 FOR PRELIMINARY PLAN REQUIREMENTS FOR THREE (3) LOTS IN ADDITION TO THE 128 LOTS APPROVED FOR THE DEVELOPMENT UNDER SKETCH PLAN S-89-50 FOR A TOTAL OF 131 BUILDABLE LOTS ALLOWED
- STREET TREES WILL BE PROVIDED IN ACCORDANCE WITH SECTION 16.131 OF THE HOWARD COUNTY SUBDIVISION REGULATIONS BY BUILDER AS APPROVED UNDER F-94-102
- PORCHES OR DECKS, OPEN OR ENCLOSED EXTERIOR STAIRWAYS CANNOT PROJECT MORE THAN 10' INTO THE REQUIRED FRONT OR REAR YARD SETBACK AREA
- ALL FIREPLACE CHIMNEYS, BAY WINDOWS, SALONETTES, EXTERIOR STAIRWAYS NOT MORE THAN 10 FEET IN WIDTH, MAY PROJECT NOT MORE THAN FOUR (4) FEET INTO ANY REQUIRED SETBACK AREA
- CONTRACTOR SHALL ADJUST ALL UTILITY APPURTENANCES TO FINISHED GRADE
- STAKEOUT OF BUILDING SHOWN HEREON SHALL BE BASED ON APPROVED SDP AND RECORDED RECORD PLATS
- THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL. FINANCIAL SURETY FOR 20 LANDSCAPE TREES IN THE AMOUNT OF \$2000.00 IS PART OF THE GRADING PERMIT.



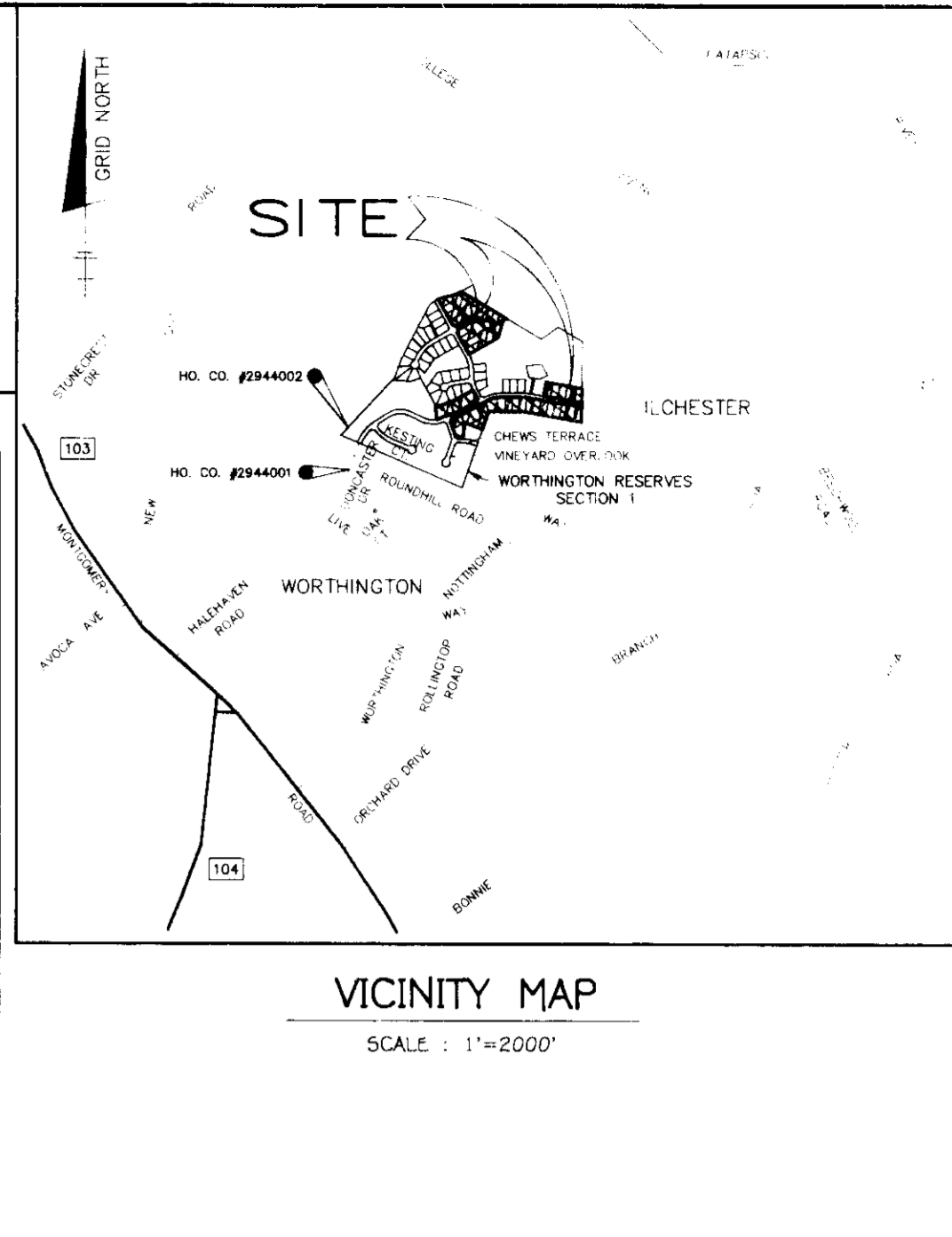
BENCH MARKS (NAD 27)

710. CO #2944001	ELEV 528.211
CONC. MONUMENT AT SURFACE, ON THE EAST SIDE OF DONCASTER DRIVE SOUTH OF ROUNDHILL ROAD.	E 858664.268
N 513669.929	E 535.366
HO. CO #2944002	ELEV 535.366
CONC. MONUMENT 0.1' ABOVE SURFACE, NEAR NE COR. OF LOT; HOUSE #4587 ROUNDHILL RD. 220' ± NORTH OF ROUNDHILL RD. CENTERLINE.	E 858596.389
N 514196.358	E 505.89

MIN. CELLAR ELEVATION ***

LOT NO.	SHC INVERT @ E	MIN. CELLAR ELEVATION	LOT NO.	SHC INVERT @ E	MIN. CELLAR ELEVATION
57	488.1	459.8	120	421.4	426.8
58	482.2	485.9	121	414.2	419.6
59	473.5	479.2	122	413.7	419.1
60	463.0	467.9	123	413.2	418.6
61	452.5	454.4	124	412.6	417.9
62	444.5	449.6	125	412.2	417.5
63	442.3	444.2	126	411.5	416.9
64	440.0	442.0	127	411.3	416.4
65	438.3	443.1	128	411.5	416.9
66	441.4	446.1	129	411.4	416.8
67	441.5	441.1	130	421.5	426.9
68	441.4	445.4	131	423.3	428.7
69	444.4	449.9	132	425.2	430.6
70	444.4	449.7	133	427.2	432.6
71	445.6	450.6	134	427.7	433.1
72	446.2	451.3	135	428.7	434.1
73	446.0	450.9	136	428.7	434.1
74	445.9	451.0	137	428.7	434.1
75	446.0	451.1	138	428.7	434.1
76	446.0	451.1	139	428.7	434.1
77	446.0	451.1	140	428.7	434.1
78	446.0	451.1	141	428.7	434.1
79	446.0	451.1	142	428.7	434.1
80	446.0	451.1	143	428.7	434.1
81	446.0	451.1	144	428.7	434.1
82	446.0	451.1	145	428.7	434.1
83	446.0	451.1	146	428.7	434.1
84	446.0	451.1	147	428.7	434.1
85	446.0	451.1	148	428.7	434.1
86	446.0	451.1	149	428.7	434.1
87	446.0	451.1	150	428.7	434.1
88	446.0	451.1	151	428.7	434.1
89	446.0	451.1	152	428.7	434.1
90	446.0	451.1	153	428.7	434.1
91	446.0	451.1	154	428.7	434.1
92	446.0	451.1	155	428.7	434.1
93	446.0	451.1	156	428.7	434.1
94	446.0	451.1	157	428.7	434.1
95	446.0	451.1	158	428.7	434.1
96	446.0	451.1	159	428.7	434.1
97	446.0	451.1	160	428.7	434.1
98	446.0	451.1	161	428.7	434.1
99	446.0	451.1	162	428.7	434.1
100	446.0	451.1	163	428.7	434.1
101	446.0	451.1	164	428.7	434.1
102	446.0	451.1	165	428.7	434.1
103	446.0	451.1	166	428.7	434.1
104	446.0	451.1	167	428.7	434.1
105	446.0	451.1	168	428.7	434.1
106	446.0	451.1	169	428.7	434.1
107	446.0	451.1	170	428.7	434.1
108	446.0	451.1	171	428.7	434.1
109	446.0	451.1	172	428.7	434.1
110	446.0	451.1	173	428.7	434.1
111	446.0	451.1	174	428.7	434.1
112	446.0	451.1	175	428.7	434.1
113	446.0	451.1	176	428.7	434.1
114	446.0	451.1	177	428.7	434.1
115	446.0	451.1	178	428.7	434.1
116	446.0	451.1	179	428.7	434.1
117	446.0	451.1	180	428.7	434.1
118	446.0	451.1	181	428.7	434.1
119	446.0	451.1	182	428.7	434.1
120	446.0	451.1	183	428.7	434.1
121	446.0	451.1	184	428.7	434.1
122	446.0	451.1	185	428.7	434.1
123	446.0	451.1	186	428.7	434.1
124	446.0	451.1	187	428.7	434.1
125	446.0	451.1	188	428.7	434.1
126	446.0	451.1	189	428.7	434.1
127	446.0	451.1	190	428.7	434.1
128	446.0	451.1	191	428.7	434.1
129	446.0	451.1	192	428.7	434.1
130	446.0	451.1	193	428.7	434.1
131	446.0	451.1	194	428.7	434.1
132	446.0	451.1	195	428.7	434.1
133	446.0	451.1	196	428.7	434.1
134	446.0	451.1	197	428.7	434.1
135	446.0	451.1	198	428.7	434.1
136	446.0	451.1	199	428.7	434.1
137	446.0	451.1	200	428.7	434.1

NOTES: * DENOTES 1.0% SLOPE FOR SHC
** DATA FROM WATER AND SEWER CONT.#14-3358-D & #14-3375-D
*** DATA FROM WATER AND SEWER CONT.#14-3160-D



MINIMUM LOT SIZE CHART

LOT NO.	GROSS AREA	FLAGSTEM AREA	REMAINING	100 YR FLOODPLAIN	25% SLOPE	MINIMUM LOT SIZE
97	15,702 S.F.	1,542 S.F.	14,160 S.F.	C	0	10,000
98	16,806 S.F.	1,449 S.F.	15,357 S.F.	C	0	10,000
138	16,792 S.F.	2,790 S.F.	14,000 S.F.	C	0	10,000

SHEET INDEX

SHEET NO.	TITLE
1	GENERIC SITE DEVELOPMENT PLAN (COVER SHEET)
2	GENERIC SITE DEVELOPMENT PLAN (DONCASTER DRIVE)
3	GENERIC SITE DEVELOPMENT PLAN (DONCASTER DRIVE)
4	GENERIC SITE DEVELOPMENT PLAN (DONCASTER DRIVE)
5	SEDIMENT & EROSION CONTROL PLAN (DONCASTER DRIVE)
6	SEDIMENT & EROSION CONTROL PLAN (DONCASTER DRIVE)
7	SEDIMENT & EROSION CONTROL NOTES AND DETAILS

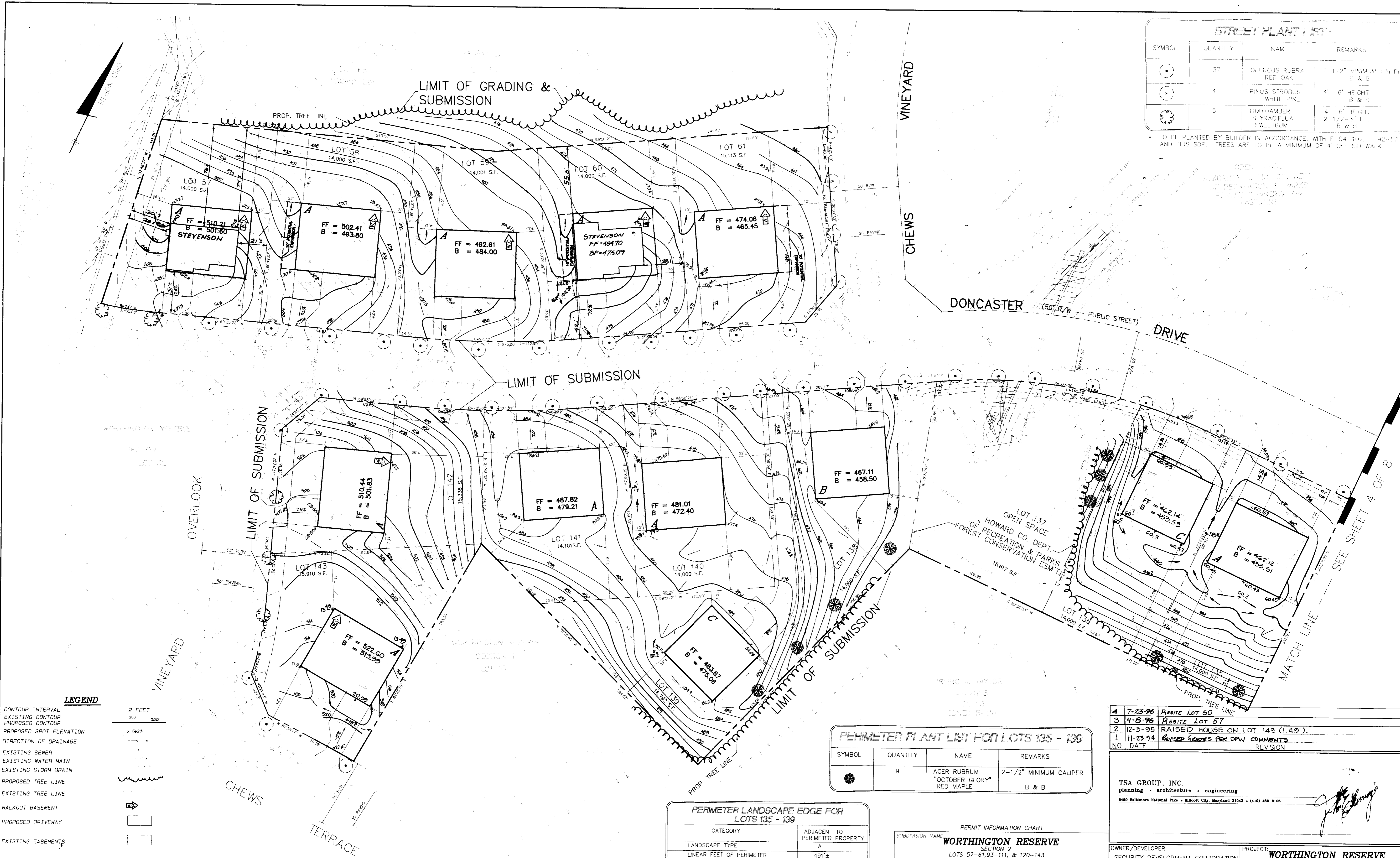
HOUSE MATRIX

LOT NO.	BOX TYPE	BLAIR	BRECKENRIDGE	EMERSON	GREYSTONE	WETHERBURN	BLAIR
57	A	Y 2.3	Y 2.5,7	Y 2.3,7	Y 2.5,7	Y 2.3,7	Y 2.3
58	A	Y 2.3	Y 2.5,7	Y 2.3,7	Y 2.5,7	Y 2.3,7	Y 2.3
59	A	Y 2.3	Y 2.5,7	Y 2.3,7	Y 2.5,7	Y 2.3,7	Y 2.3
60	A	Y 2.3	Y 2.5,7	Y 2.3,7	Y 2.5,7	Y 2.3,7	Y 2.3
61	A	Y 2.3	Y 2.5,7	Y 2.3,7	Y 2.5,7	Y 2.3,7	Y 2.3
62	A	Y 2.3	Y 2.5,7	Y 2.3,7	Y 2.5,7	Y 2.3,7	Y 2.3
63	A	Y 2.3	Y 2.5,7	Y 2.3,7	Y 2.5,7	Y 2.3,7	Y 2.3
64	A	Y 2.3	Y 2.5,7	Y 2.3,7	Y 2.5,7	Y 2.3,7	Y 2.3
65	A	Y 2.3	Y 2.5,7	Y 2.3,7	Y 2.5,7	Y 2.3,7	Y 2.3
66	A	Y 2.3	Y 2.5,7	Y 2.3,7	Y 2.5,7	Y 2.3,7	Y 2.3
67	A	Y 2.3	Y 2.5,7	Y 2.3,7	Y 2.5,7	Y 2.3,7	Y 2.3
68	A	Y 2.3	Y 2.5,7	Y 2.3,7	Y 2.5,7	Y 2.3,7	Y 2.3
69	A	Y 2.3	Y 2.5,7	Y 2.3,7	Y 2.5,7	Y 2.3,7	Y 2.3
70	A	Y 2.3	Y 2.5,7	Y 2.3,7	Y 2.5,7	Y 2.3,7	Y 2.3
71	A	Y 2.3	Y 2.5,7	Y 2.3,7	Y 2.5,7	Y 2.3,7	Y 2.3
72	A	Y 2.3	Y 2.5,7	Y 2.3,7	Y 2.5,7	Y 2.3,7	Y 2.3
73	A	Y 2.3	Y 2.5,7	Y 2.3,7	Y 2.5,7	Y 2.3,7	Y 2.3
74	A	Y 2.3	Y 2.5,7	Y 2.3,7	Y 2.5,7	Y 2.3,7	Y 2.3
75	A	Y 2.3	Y 2.5,7	Y 2.3,7	Y 2.5,7	Y 2.3,7	Y 2.3
76	A	Y 2.3	Y 2.5,7	Y 2.3,7	Y 2.5,7	Y 2.3,7	Y 2.3
77	A	Y 2.3	Y 2.5,7	Y 2.3,7	Y 2.5,7	Y 2.3,7	Y 2.3
78	A	Y 2.3	Y 2.5,7	Y 2.3,7	Y 2.5,7	Y 2.3,7	Y 2.3
79	A	Y 2.3	Y 2.5,7	Y 2.3,7	Y 2.5,7	Y 2.3,7	Y 2.3
80	A	Y 2.3	Y 2.5,7	Y 2.3,7	Y 2.5,7	Y 2.3,7	Y 2.3
81	A	Y 2.3	Y 2.5,7	Y 2.3,7	Y 2.5,7	Y 2.3,7	Y 2.3
82	A	Y 2.3	Y 2.5,7	Y 2.3,7	Y 2.5,7	Y 2.3,7	Y 2.3
83	A	Y 2.3	Y 2.5,7	Y 2.3,7	Y 2.5,7	Y 2.3,7	Y 2.3
84	A	Y 2.3	Y 2.5,7	Y 2.3,7	Y 2.5,7	Y 2.3,7	Y 2.3
85	A	Y 2.3	Y 2.5,7	Y 2.3,7	Y 2.5,7	Y 2.3,7	Y 2.3
86	A	Y 2.3	Y 2.5,7	Y 2.3,7	Y 2.5,7	Y 2.3,7	Y 2.3
87	A	Y 2.3	Y 2.5,7	Y 2.3,7	Y 2.5,7	Y 2.3,7	Y 2.3
88	A	Y 2.3	Y 2.5,7	Y 2.3,7	Y 2.5,7	Y 2.3,7	Y 2.3
89	A	Y 2.3	Y 2.5,7	Y 2.3,7	Y 2.5,7	Y 2.3,7	Y 2.3
90	A	Y 2.3	Y 2.5,7	Y 2.3,7	Y 2.5,7	Y 2.3,7	Y 2.3
91	A	Y 2.3	Y 2.5,7	Y 2.3,7	Y 2.5,7	Y 2.3,7	Y 2.3
92	A	Y 2.3	Y 2.5,7	Y 2.3,7	Y 2.5,7	Y 2.3,7	Y 2.3
93	A	Y 2.3	Y 2.5,7	Y 2.3,7	Y 2.5,7	Y 2.3,7	Y 2.3
94	A	Y 2.3	Y 2.5,7	Y 2.3,7	Y 2.5,7	Y 2.3,7	Y 2.3
95	A	Y 2.3	Y 2.5,7	Y 2.3,7	Y 2.5,7	Y 2.3,7	Y 2.3
96	A	Y 2.3	Y 2.5,7	Y 2.3,7	Y 2.5,7	Y 2.3,7	Y 2.3
97	A	Y 2.3	Y 2.5,7	Y 2.3,7	Y 2.5,7	Y 2.3,7	Y 2.3
98	A	Y 2.3	Y 2.5,7	Y 2.3,7	Y 2.5,7	Y 2.3,7	Y 2.3
99	A	Y 2.3	Y 2.5,7	Y 2.3,7	Y 2.5,7	Y 2.3,7	Y 2.3
100	A	Y 2.3	Y 2.5,7	Y 2.3,7	Y 2.5,7	Y 2.3,7	Y 2.3
101	A	Y 2.3	Y 2.5,7	Y 2.3,7	Y 2.5,7	Y 2.3,7	Y 2.3
102	A	Y 2.3	Y 2.5,7	Y 2.3,7	Y 2.5,7	Y 2.3,7	Y 2.3
103	A	Y 2.3	Y 2.5,7	Y 2.3,7	Y 2.5,7	Y 2.3,7	Y 2.3
104	A	Y 2.3	Y 2.5,7	Y 2.3,7	Y 2.5,7	Y 2.3,7	Y 2.3
105	A	Y 2.3	Y 2.5,7	Y 2.3,7	Y 2.5,7	Y 2.3,7	Y 2.3
106	A	Y 2.3	Y 2.5,7	Y 2.3,7	Y 2.5,7	Y 2.3,7	Y 2.3
107							

STREET PLANT LIST			
SYMBOL	QUANTITY	NAME	REMARKS
(Symbol)	37	QUERCUS RUBRA RED OAK	2-1/2" MINIMUM CALIPER B & B
(Symbol)	4	PINUS STROBILIS WHITE PINE	4' 6" HEIGHT B & B
(Symbol)	5	LIQUIDAMBER STYRACIFLUA SWEETGUM	4' 6" HEIGHT 2-1/2" 3" H" B & B

TO BE PLANTED BY BUILDER IN ACCORDANCE WITH F-94-102, F-92-50 AND THIS SDP. TREES ARE TO BE A MINIMUM OF 4' OFF SIDEWALK

INDICATED TO HO. CO. DEPT. OF RECREATION & PARKS FOREST CONSERVATION DEPARTMENT



LEGEND

CONTOUR INTERVAL	2 FEET
EXISTING CONTOUR	200 120
PROPOSED CONTOUR	x 50 25
DIRECTION OF DRAINAGE	→
EXISTING SEWER	—
EXISTING WATER MAIN	—
EXISTING STORM DRAIN	—
PROPOSED TREE LINE	~
EXISTING TREE LINE	—
WALKOUT BASEMENT	↳
PROPOSED DRIVEWAY	□
EXISTING EASEMENTS	□

PERIMETER PLANT LIST FOR LOTS 135 - 139

SYMBOL	QUANTITY	NAME	REMARKS
(Symbol)	9	ACER RUBRUM "OCTOBER GLORY" RED MAPLE	2-1/2" MINIMUM CALIPER B & B

PERIMETER LANDSCAPE EDGE FOR LOTS 135 - 139

CATEGORY	ADJACENT TO PERIMETER PROPERTY
LANDSCAPE TYPE	A
LINEAR FEET OF PERIMETER	491±
CREDIT FOR EXISTING VEGETATION	136±
NET LINEAR FEET	355±
NUMBER OF PLANTS REQUIRED	6(1:60)
SHADE TREES	0
EVERGREEN TREES	0
SHRUBS	0
NUMBER OF PLANTS PROVIDED	6
SHADE TREES	0
EVERGREEN TREES	0
SHRUBS	0

PERMIT INFORMATION CHART

SUBMISSION NAME: WORTHINGTON RESERVE			
SECTION 2			
LOTS 57-61, 93-111, & 120-143			
SECTION	PARCEL #	LIBER & FOLIO	PREVIOUS FILE
2	3	3288/239 2549/323	S-89-50-P-93-09 F-94-102, WP-94-01 F-92-50
PLAT No.	BLOCK No.	ZONE	TAX MAP
11397 TO 11403		R-20	31
WATER CODE	GOI	SEWER CODE	1257013
SCALE:	AS SHOWN	DATE:	JULY, 1994

1	7-25-96	RESITE LOT 60
2	4-8-96	RESITE LOT 57
3	12-5-95	RAISED HOUSE ON LOT 143 (1.49')
4	11-23-94	REVISED GRADES PER CPW COMMENTS
NO.	DATE	REVISION

TSA GROUP, INC.
 planning • architecture • engineering
 8480 Baltimore National Pike • Ellicott City, Maryland 21043 • (410) 465-8100

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING
 12/5/94
 DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 FOR PUBLIC WATER & SEWERAGE, STORM DRAINAGE SYSTEMS AND ROADS
 11/21/94
 DATE

NOTE: THE POTENTIAL 10' EXTENSION AS INDICATED ON LOTS 58 & 60 - 61 ALLOWS THE HOUSE TO EXTEND FORWARD OF THE FRONT OR SIDE OF THE BOX A MAXIMUM OF 10 FEET PROVIDED THE HOUSE MODEL FOOTPRINT WILL REMAIN WITHIN THE BUILDING RESTRICTION LINE (BRL). THE DRIVEWAY SLOPE DOES NOT EXCEED THAT ALLOWED IN THE DESIGN MANUAL (15%) AND GRADING REMAINS WITHIN THE ALLOWED TOLERANCES.

PLAN VIEW
 SCALE: 1" = 30'

OWNER/DEVELOPER: SECURITY DEVELOPMENT CORPORATION
 P.O. BOX 417
 ELLICOTT CITY, MARYLAND 21041
 (410) 465-4244

PROJECT: **WORTHINGTON RESERVE**
 SECTION 2
 LOTS 57-61, 93-111, & 120-143

LOCATION: TAX MAP 31 PART OF PARC. 3
 2ND ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

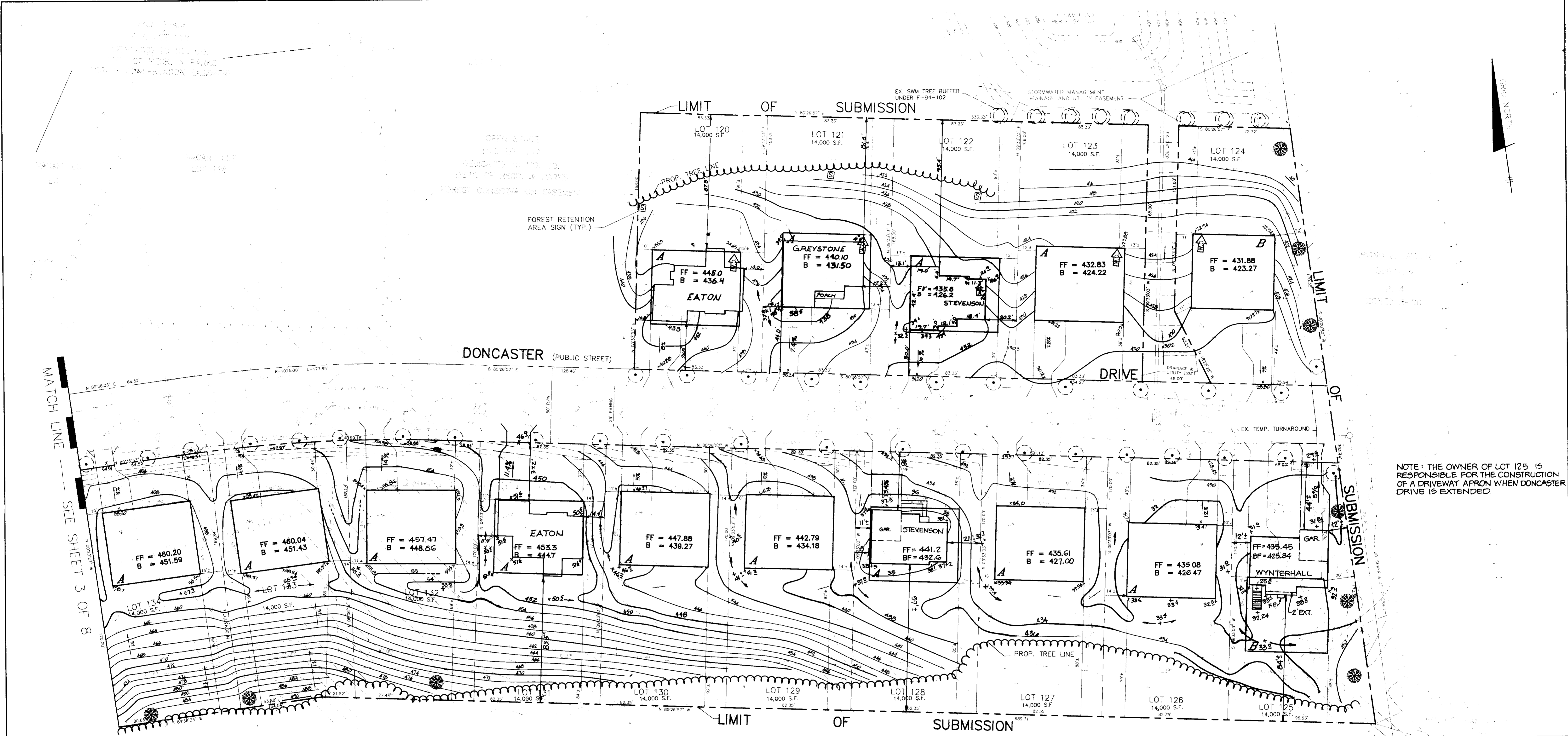
BUILDER: GRAYSON HOMES
 9025 CHEVROLET DR., SUITE K
 ELLICOTT CITY, MARYLAND 21043
 (410) 461-5900

TITLE: **GENERIC SITE DEVELOPMENT PLAN**

DATE: JULY 1994
 NOV 16, 1994

DES: YSL/CAM | DRN: YSL

SCALE: AS SHOWN | DRAWING NO. 0726
 PROJECT NO. 95-09



NOTE: THE OWNER OF LOT 125 IS RESPONSIBLE FOR THE CONSTRUCTION OF A DRIVEWAY APRON WHEN DONCASTER DRIVE IS EXTENDED.

LEGEND

CONTOUR INTERVAL	2 FEET
EXISTING CONTOUR	200 100
PROPOSED CONTOUR	x 5/25
PROPOSED SPOT ELEVATION	x 5/25
DIRECTION OF DRAINAGE	→
EXISTING SEWER	—
EXISTING WATER MAIN	—
EXISTING STORM DRAIN	—
PROPOSED TREE LINE	~
EXISTING TREE LINE	—
WALKOUT BASEMENT	□
FOREST RETENTION AREA SIGN	⊠
PROPOSED DRIVEWAY	▭
EXISTING EASEMENTS	▭

IRVING J. TAYLOR
422/B15
P. 13
ZONED R-20

SPECIAL NOTE: THE WETHERBURN HOUSE FOOTPRINT MAY EXTEND OUTSIDE OF THE GENERIC BOX TO ALLOW FOR OPTIONS ON LOTS 120-123 AND 126-134 AS LONG AS THE UNIT REMAINS WITHIN THE BUILDING RESTRICTION ENVELOPE.

STREET PLANT LIST

SYMBOL	QUANTITY	NAME	REMARKS
⊠	37	QUERCUS RUBRA RED OAK	2-1/2" MINIMUM CALIPER B & B

TO BE PLANTED BY BUILDER IN ACCORDANCE WITH F-94-102 AND THIS SDP. TREES ARE TO BE A MINIMUM OF 4' OFF SIDEWALK

PERIMETER LANDSCAPE EDGE FOR LOTS 124 - 134

CATEGORY	ADJACENT TO PERIMETER PROPERTY
LANDSCAPE TYPE	A
LINEAR FEET OF PERIMETER	1167±
CREDIT FOR EXISTING VEGETATION	635±
NET LINEAR FEET	532±
NUMBER OF PLANTS REQUIRED	9(1.60)
SHADE TREES	0
EVERGREEN TREES	0
SHRUBS	0
NUMBER OF PLANTS PROVIDED	9
SHADE TREES	0
EVERGREEN TREES	0
SHRUBS	0

PERIMETER PLANT LIST FOR LOTS 124 - 134

SYMBOL	QUANTITY	NAME	REMARKS
⊠	9	ACER RUBRUM "OCTOBER GLORY" RED MAPLE	2-1/2" MINIMUM CALIPER B & B

PERMIT INFORMATION CHART

SUB-DIVISION NAME WORTHINGTON RESERVE			
SECTION 2 LOTS 57-61, 93-111, & 120-143			
SECTION 2	PARCEL # 3	LIBER & FOLIO 3288/239 2549/323	PREVIOUS FILE: S-89-50-P-93-09 F-94-102-WP-94-01 F-92-50
PLAT No. 11397 TO 11403	BLOCK No. R-20	TAX MAP 31	ELEC. DIST. 2nd CENSUS 6027
WATER CODE G01		SEWER CODE 1257013	
SCALE: AS SHOWN		DATE: JULY, 1994	

7	1-19-98	RESITE LOT 131
6	7-1-97	RESITE LOT 122
5	4-25-97	RESITE LOT 128
4	9-13-96	RESITE LOT 125
3	7/5/96	RESITE LOT 121
2	11/16/96	ADJUST FF ELEVATION AND BUILDING LOCATION (WALK-THRU PROCESS) / R/O
1	11-22-94	REVISED GRADES PER PDW COMMENTS
NO.	DATE	REVISION

TSA GROUP, INC.
planning • architecture • engineering
6450 Baltimore National Pike • Ellicott City, Maryland 21045 • (410) 465-8100

OWNER/DEVELOPER:
SECURITY DEVELOPMENT CORPORATION
P.O. BOX 417
ELLICOTT CITY, MARYLAND 21041
(410) 465-4244

PROJECT:
WORTHINGTON RESERVE
SECTION 2
LOTS 57-61, 93-111, & 120-143

LOCATION:
TAX MAP 11 - PART OF PARCELS 3
2ND ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

BUILDER:
GRAYSON HOMES
9025 CHEVROLET DR., SUITE K
ELLICOTT CITY, MARYLAND 21043
(410) 461-5900

TITLE:
GENERIC SITE DEVELOPMENT PLAN

DATE: JULY 1994
NOV. 16, 1994

DES: YSL/CAM
DRN: YSL

SCALE: AS SHOWN
DRAWING 4 OF 8

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING
DATE: 12/5/94

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
FOR PUBLIC WATER & SEWERAGE, STORM DRAINAGE SYSTEMS AND ROADS
DATE: 11/29/94

STONE OUTLET SEDIMENT TRAP #1

D.A. = 1.5 Ac.
 STORAGE (REQ.) = 2700 CF
 STORAGE (PROVIDED) = 2883 CF
 BOTTOM DIM. = 25' x 25'
 DEPTH = 3'
 BOTTOM ELEV. = 433.00
 WEIR CREST ELEV. = 437.00
 TOP OF EMBANKMENT = 438.00
 OUTLET LENGTH = 6.0'
 SIDE SLOPE = 2:1
 CLEANOUT ELEV. = 434.5

DELAY CONSTRUCTION ON LOT 111 UNTIL ALL CONTRIBUTING DRAINAGE AREA TO TRAP #1 HAS BEEN STABILIZED.

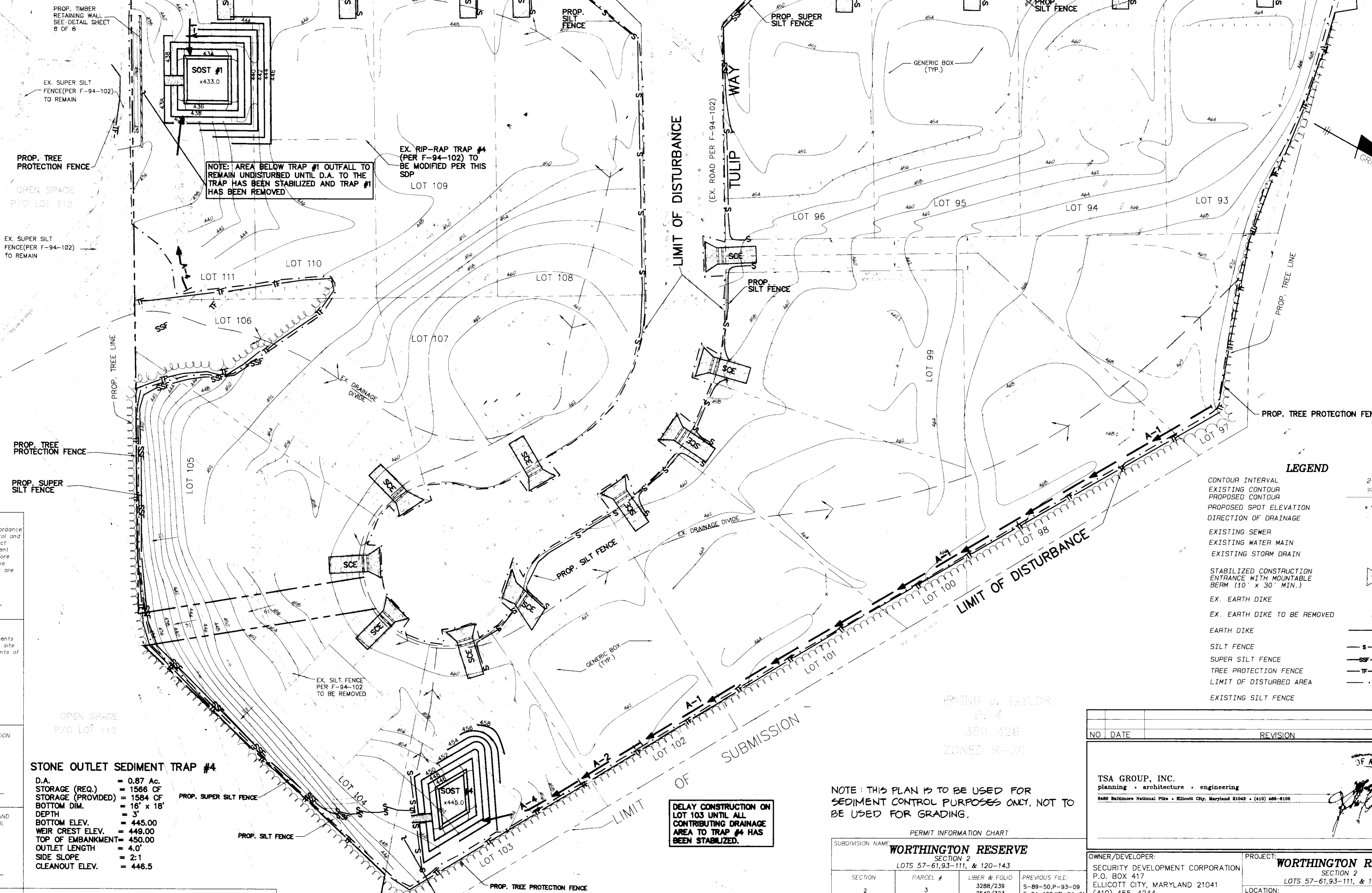
VICINITY OF EX. ROST #5 UNDER F-94-102

STORM DRAIN DRAINS TO EX. RIP-RAP OUTLET SEDIMENT TRAP #5 ON THE WEST SIDE OF CHEWS VINEYARD

CHEWS VINEYARD

(EX. ROAD PER F-94-102)

LIMIT OF DISTURBANCE



NOTE: AREA BELOW TRAP #1 OUTFALL TO REMAIN UNDISTURBED UNTIL D.A. TO THE TRAP HAS BEEN STABILIZED AND TRAP #1 HAS BEEN REMOVED.

EX. RIP-RAP TRAP #4 (PER F-94-102) TO BE MODIFIED PER THIS SDP

DELAY CONSTRUCTION ON LOT 103 UNTIL ALL CONTRIBUTING DRAINAGE AREA TO TRAP #4 HAS BEEN STABILIZED.

NOTE: AREA BELOW TRAP #4 OUTFALL TO REMAIN UNDISTURBED UNTIL D.A. TO THE TRAP HAS BEEN STABILIZED AND TRAP #4 HAS BEEN REMOVED.

BUILDER'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.

Floyd Grayson 11/19/94
 Signature of Builder 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 Danziger 11/16/94
 Signature Date

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

Patricia Engle/AS 11/21/94
 U.S. SOIL CONSERVATION SERVICE DATE

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

Jeffery Selig 4/21/94
 HOWARD COUNTY CONSERVATION DISTRICT DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

Joseph A. White 12/5/94
 DIRECTOR DATE
Anna Jaramana 12/15/94
 CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH DATE

STONE OUTLET SEDIMENT TRAP #4

D.A. = 0.87 Ac.
 STORAGE (REQ.) = 1566 CF
 STORAGE (PROVIDED) = 1584 CF
 BOTTOM DIM. = 16' x 18'
 DEPTH = 3'
 BOTTOM ELEV. = 445.00
 WEIR CREST ELEV. = 449.00
 TOP OF EMBANKMENT = 450.00
 OUTLET LENGTH = 4.0'
 SIDE SLOPE = 2:1
 CLEANOUT ELEV. = 446.5

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

John M. Dwyer 11/3/94
 DIRECTOR DATE
C.E. Z. Altman 11/29/94
 CHIEF, BUREAU OF ENGINEERING DATE

LEGEND

- CONTOUR INTERVAL 2 FEET
- EXISTING CONTOUR 200
- PROPOSED CONTOUR 100
- PROPOSED SPOT ELEVATION x 56.25
- DIRECTION OF DRAINAGE →
- EXISTING SEWER
- EXISTING WATER MAIN
- EXISTING STORM DRAIN
- STABILIZED CONSTRUCTION ENTRANCE WITH MOUNTABLE BERM (10' x 30' MIN.)
- EX. EARTH DIKE EX. A-3
- EX. EARTH DIKE TO BE REMOVED EX. A-3
- EARTH DIKE A-3
- SILT FENCE S-S
- SUPER SILT FENCE S-S-S
- TREE PROTECTION FENCE T-T
- LIMIT OF DISTURBED AREA - - -
- EXISTING SILT FENCE

NO.	DATE	REVISION

TSA GROUP, INC.
 planning • architecture • engineering
 5400 Baltimore National Pike • Ellicott City, Maryland 21043 • (410) 466-0100

NOTE: THIS PLAN IS TO BE USED FOR SEDIMENT CONTROL PURPOSES ONLY, NOT TO BE USED FOR GRADING.

PERMIT INFORMATION CHART

SUBDIVISION NAME: WORTHINGTON RESERVE					
SECTION 2					
LOTS 57-61, 93-111, & 120-143					
SECTION	PARCEL #	LIBER & FOLIO	PREVIOUS FILE:		
2	3	3288/239 2549/323	S-89-50.P-93-09 F-94-102.WP-94-01 F-92-50		
PLAT No.	BLOCK No.	ZONE	TAX MAP	ELEC. DIST.	CENSUS
11397 TO 11403		R-20	31	2nd	6027
WATER CODE	GOI	SEWER CODE	1257013		
SCALE:	AS SHOWN	DATE	JULY, 1994		

OWNER/DEVELOPER: SECURITY DEVELOPMENT CORPORATION
 P.O. BOX 417
 ELLICOTT CITY, MARYLAND 21041
 (410) 465-4244

PROJECT: **WORTHINGTON RESERVE**
 SECTION 2
 LOTS 57-61, 93-111, & 120-143

LOCATION: TAX MAP 31 - PART OF PARCE. 3
 2nd ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

BUILDER: GRAYSON HOMES
 9025 CHEVROLET DR., SUITE K
 ELLICOTT CITY, MARYLAND 21043
 (410) 461-5900

TITLE: **EROSION & SEDIMENT CONTROL PLAN**

DATE: JULY 1994
 NOV. 18, 1994

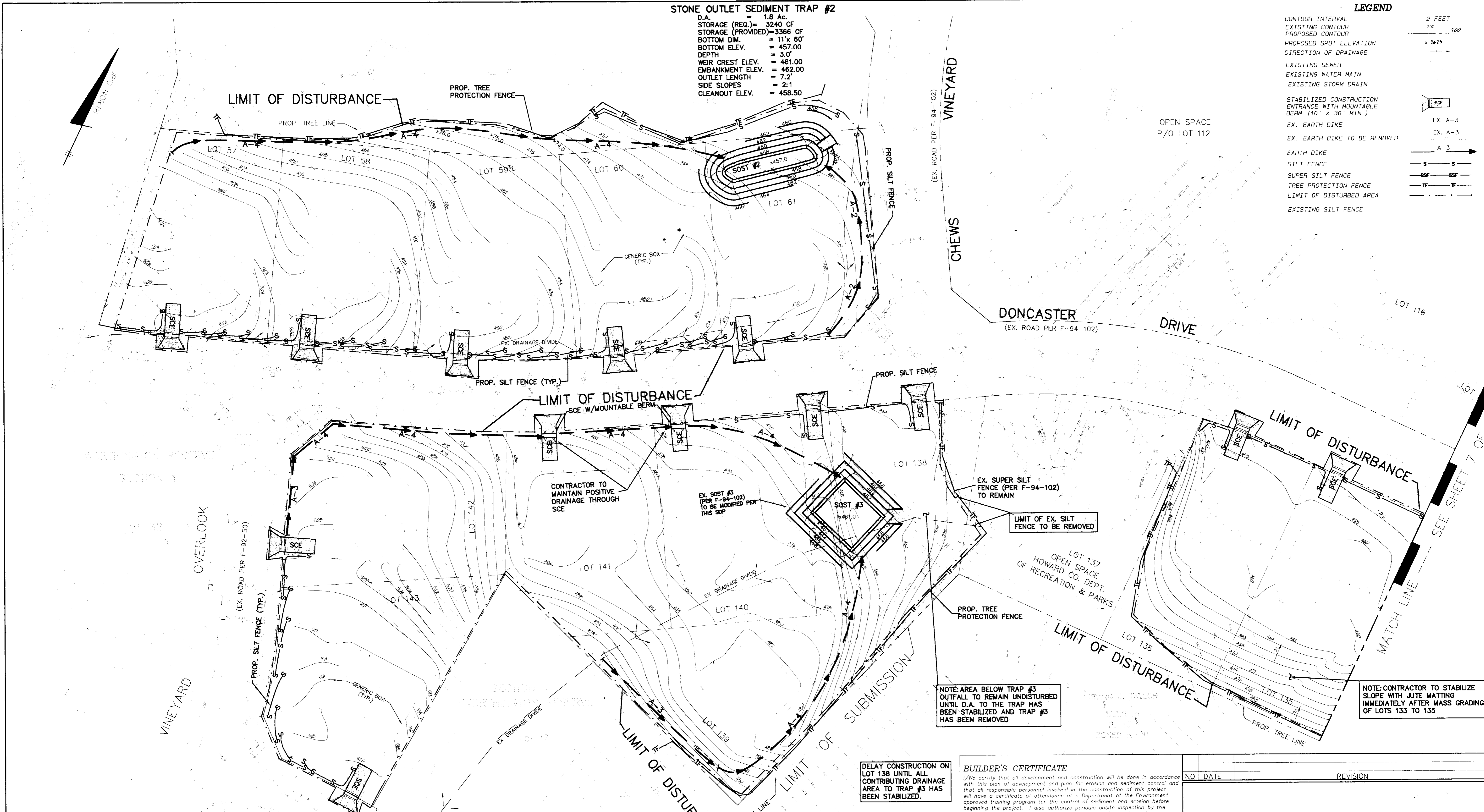
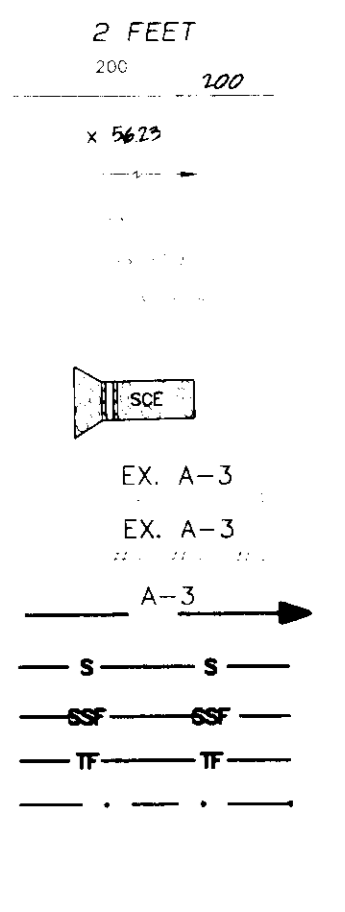
PROJECT NO. 0726
 DRAWING 5 OF 18

PLAN VIEW
 SCALE: 1" = 30'

STONE OUTLET SEDIMENT TRAP #2
 D.A. = 1.8 Ac.
 STORAGE (REQ.) = 3240 CF
 STORAGE (PROVIDED) = 3366 CF
 BOTTOM DIM. = 11' x 60'
 BOTTOM ELEV. = 457.00
 DEPTH = 3.0'
 WEIR CREST ELEV. = 461.00
 EMBANKMENT ELEV. = 462.00
 OUTLET LENGTH = 7.2'
 SIDE SLOPES = 2:1
 CLEANOUT ELEV. = 458.50

LEGEND

- CONTOUR INTERVAL
- EXISTING CONTOUR
- PROPOSED CONTOUR
- PROPOSED SPOT ELEVATION
- DIRECTION OF DRAINAGE
- EXISTING SEWER
- EXISTING WATER MAIN
- EXISTING STORM DRAIN
- STABILIZED CONSTRUCTION ENTRANCE WITH MOUNTABLE BERM (10' x 30' MIN.)
- EX. EARTH DIKE
- EX. EARTH DIKE TO BE REMOVED
- EARTH DIKE
- SILT FENCE
- SUPER SILT FENCE
- TREE PROTECTION FENCE
- LIMIT OF DISTURBED AREA
- EXISTING SILT FENCE



NOTE: THIS PLAN IS TO BE USED FOR SEDIMENT CONTROL PURPOSES ONLY. NOT TO BE USED FOR GRADING.

STONE OUTLET SEDIMENT TRAP #3
 D.A. = 2.4 Ac.
 STORAGE (REQ.) = 4320 CF
 STORAGE (PROVIDED) = 4536 CF
 BOTTOM DIM. = 30' x 35'
 BOTTOM ELEV. = 461.00
 DEPTH = 3.0'
 WEIR CREST ELEV. = 465.00
 EMBANKMENT ELEV. = 468.00
 OUTLET LENGTH = 10'
 SIDE SLOPES = 2:1
 CLEANOUT = 462.50

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.

APPROVED: *[Signature]* 11/14/94
 APPROVED: *[Signature]* 12/15/94
 APPROVED: *[Signature]* 11/29/94

APPROVED: *[Signature]* 11/30/94
 APPROVED: *[Signature]* 11/29/94

APPROVED: *[Signature]* 11/29/94
 APPROVED: *[Signature]* 11/29/94

APPROVED: *[Signature]* 11/29/94

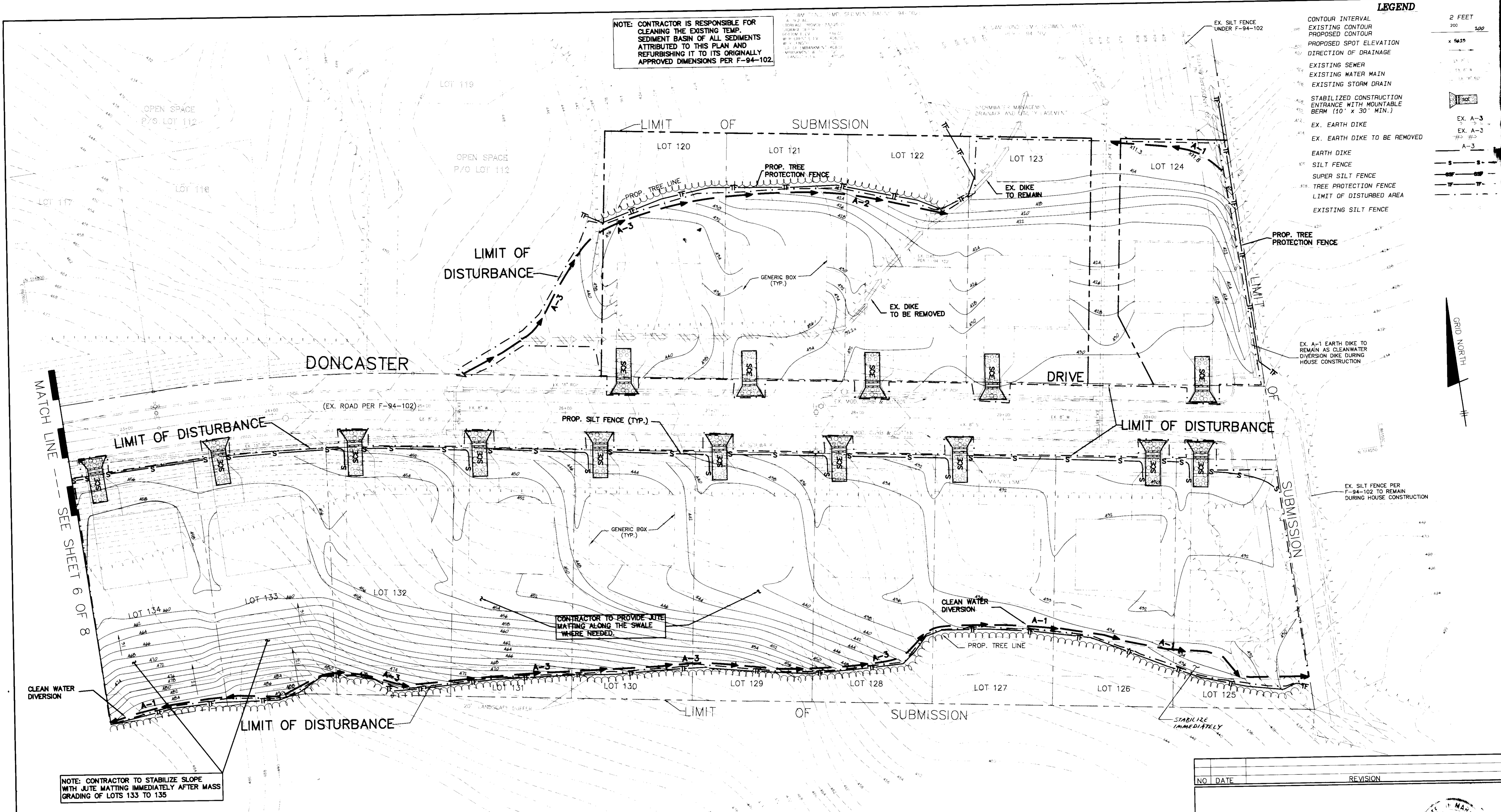
BUILDER'S CERTIFICATE
 I/We certify that all development and construction will be done in accordance with this plan of development and plan for erosion and sediment control and that all responsible personnel involved in the construction of this project will have a certificate of attendance at a Department 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.

[Signature] 11/17/94

PERMIT INFORMATION CHART

SUBDIVISION NAME: WORTHINGTON RESERVE SECTION 2			
SECTION: 2	PARCEL #: 3	LIBER & FOLIO: S-89-50.P-93-09 F-94-102.WP-94-01 F-92-50	
PLAT No.:	BLOCK No.:	ZONE:	TAX MAP:
11397	11403	R-20	31
TO:			
11403			
WATER CODE:	SEWER CODE:	ELEC. DIST.:	CENSUS:
601	1257013	2nd	6027
SCALE:	DATE:	JULY, 1994	
AS SHOWN			

NO.	DATE	REVISION
TSA GROUP, INC. planning • architecture • engineering 8400 Baltimore National Pike • Ellicott City, Maryland 21043 • (410) 466-8106		
OWNER/DEVELOPER: SECURITY DEVELOPMENT CORPORATION P.O. BOX 417 ELLICOTT CITY, MARYLAND 21041 (410) 465-4244		
PROJECT: WORTHINGTON RESERVE SECTION 2 LOTS 57-61, 93-111, & 120-143		
LOCATION: TAX MAP 31 PART OF PARCEL 3 2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND		
TITLE: EROSION & SEDIMENT CONTROL PLAN		
DATE: JULY 1994	PROJECT NO. 0726	
NOV 18, 1994		
SCALE: AS SHOWN	DRAWING: 8 OF 8	



NOTE: CONTRACTOR IS RESPONSIBLE FOR CLEANING THE EXISTING TEMP. SEDIMENT BASIN OF ALL SEDIMENTS ATTRIBUTED TO THIS PLAN AND REFURBISHING IT TO ITS ORIGINALLY APPROVED DIMENSIONS PER F-94-102.

LEGEND

CONTOUR INTERVAL	2 FEET
EXISTING CONTOUR	200
PROPOSED CONTOUR	120
PROPOSED SPOT ELEVATION	x 5425
DIRECTION OF DRAINAGE	→
EXISTING SEWER	—S—S—
EXISTING WATER MAIN	—W—W—
EXISTING STORM DRAIN	—SD—SD—
STABILIZED CONSTRUCTION ENTRANCE WITH MOUNTABLE BERM (10' x 30' MIN.)	[Symbol]
EX. EARTH DIKE	—A-3—
EX. EARTH DIKE TO BE REMOVED	—A-3—
EARTH DIKE	—A-3—
SILT FENCE	—S—S—
SUPER SILT FENCE	—SF—SF—
TREE PROTECTION FENCE	—TP—TP—
LIMIT OF DISTURBED AREA	—LD—LD—
EXISTING SILT FENCE	—S—S—



DONCASTER

DRIVE

NOTE: CONTRACTOR TO STABILIZE SLOPE WITH JUTE MATTING IMMEDIATELY AFTER MASS GRADING OF LOTS 133 TO 135

CONTRACTOR TO PROVIDE JUTE MATTING ALONG THE SWALE WHERE NEEDED.

BUILDER'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.

Thyrd Dragon 11/14/99
Signature of Builder 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 E. ... 11/14/99
Signature Date

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING
James ... 12/5/94
DIRECTOR DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS FOR PUBLIC WATER & SEWERAGE, STORM DRAINAGE SYSTEMS AND ROADS
John ... 11/16/94
DIRECTOR DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING
Gina ... 12/5/94
CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS FOR PUBLIC WATER & SEWERAGE, STORM DRAINAGE SYSTEMS AND ROADS
C.E. ... 11/21/94
CHIEF, BUREAU OF ENGINEERING DATE

APPROVED: REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.
Patricia ... 11/14/99
U. S. SOIL CONSERVATION SERVICE DATE

APPROVED: THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.
John ... 11/14/99
HOWARD COUNTY SOIL CONSERVATION DISTRICT DATE

PLAN VIEW
SCALE: 1" = 30'

NOTE: THIS PLAN IS TO BE USED FOR SEDIMENT CONTROL PURPOSES ONLY, NOT TO BE USED FOR GRADING.

PERMIT INFORMATION CHART

SUBDIVISION NAME: WORTHINGTON RESERVE					
SECTION 2					
LOTS 57-61, 93-111, & 120-143					
SECTION	PARCEL #	LIBER & FOLIO	PREVIOUS FILE:		
2	3	3288/239 2549/323	S-89-50, P-93-09 F-94-102, WP-94-01 F-92-50		
PLAT No.	BLOCK No.	ZONE	TAX MAP	ELEC. DIST.	CENSUS
11397 TO 11403		R-20	31	2nd	6027
WATER CODE		SEWER CODE			
G01		1257013			
SCALE: AS SHOWN			DATE: JULY, 1994		

NO DATE		REVISION	
TSA GROUP, INC. planning • architecture • engineering 8480 Baltimore National Pike • Millersville, Maryland 21108 • (410) 486-8106			
OWNER/DEVELOPER: SECURITY DEVELOPMENT CORPORATION P.O. BOX 417 ELLCOTT CITY, MARYLAND 21041 (410) 465-4244		PROJECT: WORTHINGTON RESERVE SECTION 2 LOTS 57-61, 93-111, & 120-143	
LOCATION: TAX MAP 31 - PART OF PARCEL 3 2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND		TITLE: EROSION & SEDIMENT CONTROL PLAN	
DATE: JULY 1994 REV. 16, 1994		PROJECT NO. 0726	
DES: YSL DRN: YSL		SCALE: AS SHOWN DRAWING 7 OF 8	

SDP 9509

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

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

- 1) Preferred - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 sf) and 800 lb 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 lb per acre 20-0-0 ureaform fertilizer (9 lbs/1000 sf).
- 2) Acceptable - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 sf) and 1000 lb 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 80 lb per acre (14 lbs/1000 sf) of Kentucky 31 Tall Fescue. For the period May 1 through July 31, seed with 60 lb Kentucky 31 Tall Fescue per acre and 2 lbs per acre (5.05 lbs/1000 sf) of Weeping Lovegrass. During the period of October 16 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 80 lb/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 (6 gal/1000 sf) 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)

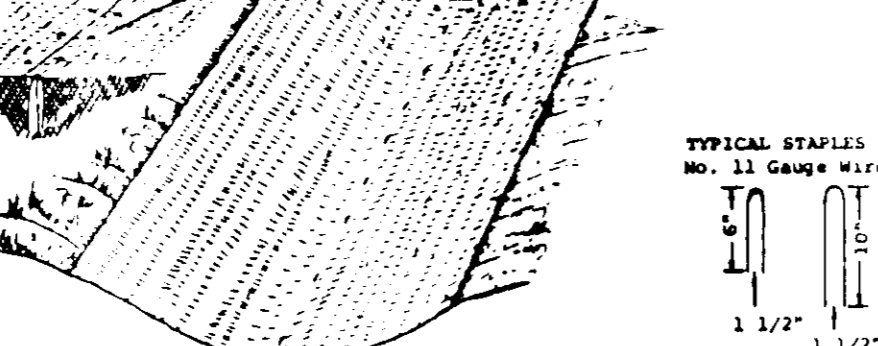
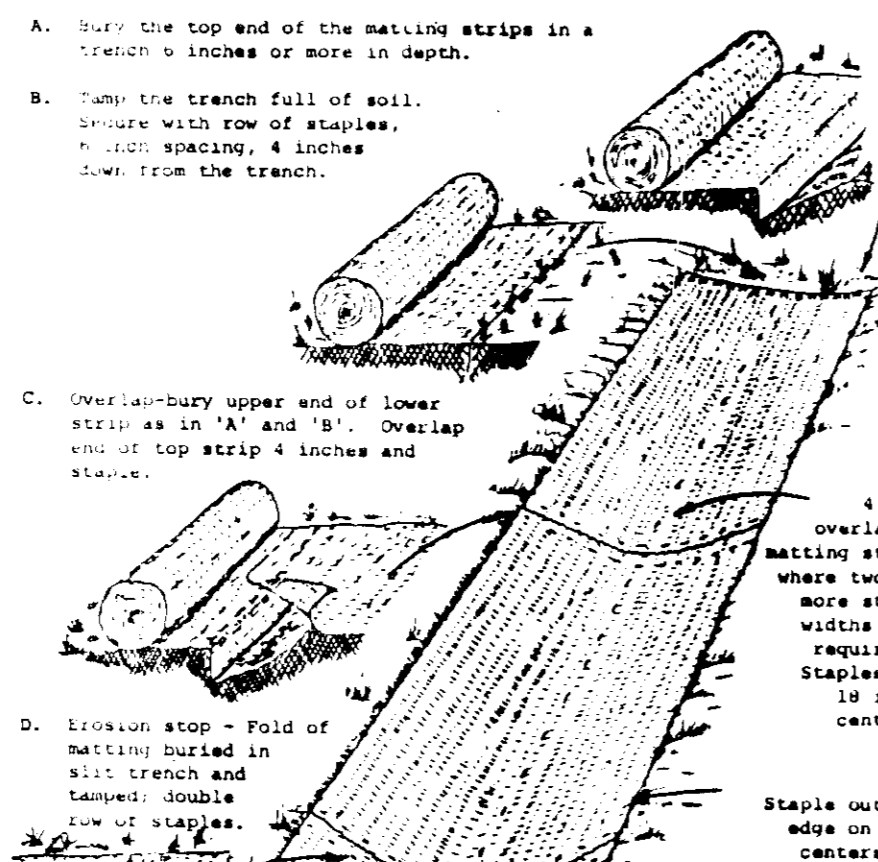
Soil Amendments: Apply 800 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sf).

Seeding: For the period March 1 through April 30 and from August 15 through November 15, seed with 2-1/2 bushel per acre of annual ryegrass (3.2 lbs/1000 sf). For the period May 1 through August 14, seed with 3 lbs per acre of Weeping Lovegrass (5.07 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.

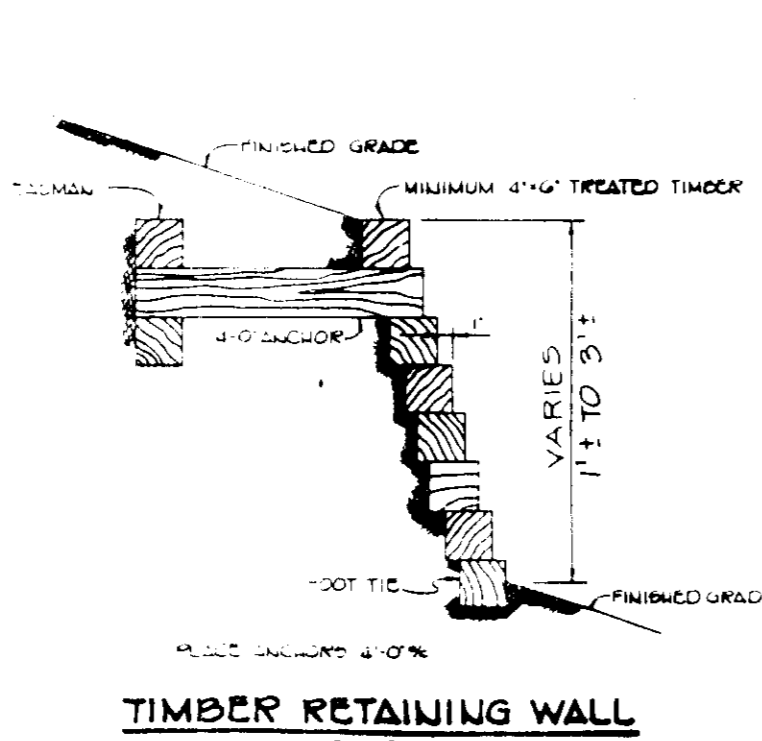
Mulching: Apply 1-1/2 to 2 tons per acre (70 to 90 lbs/1000 sf) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gallons per acre (5 gal/1000 sf) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gallons per acre (6 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.

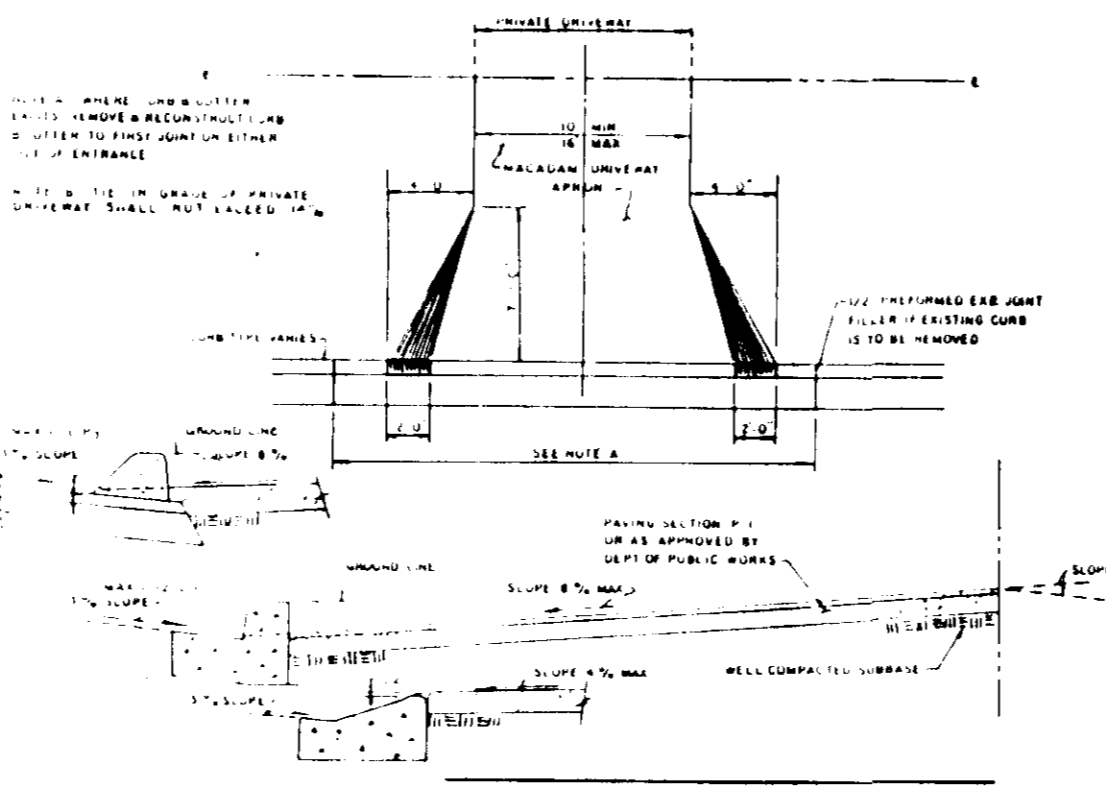
DETAIL FOR STABILIZING W/ TRENCH WITH JUTE ON EXCELLENT MATTINGS



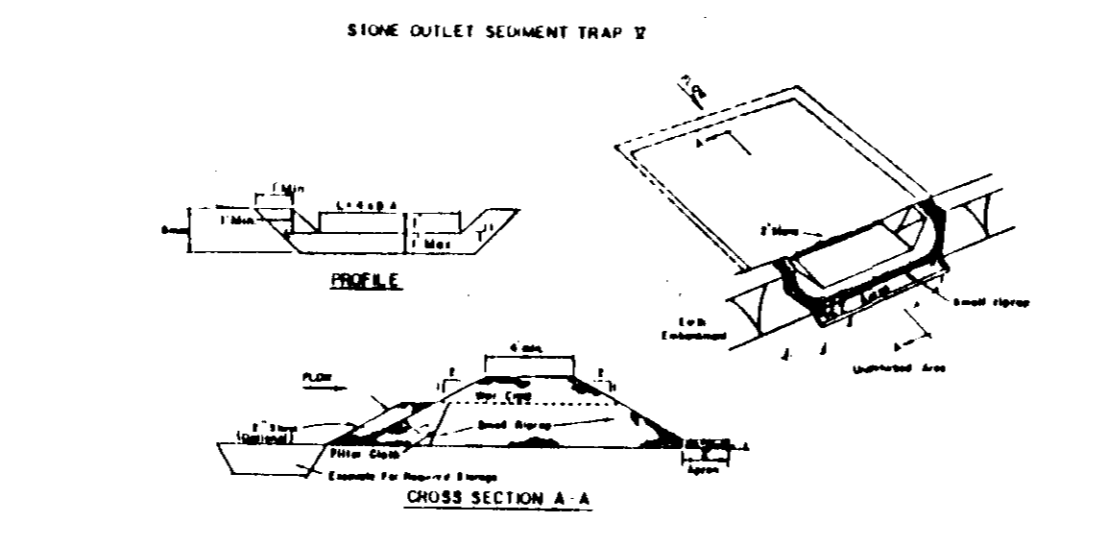
MATTING DETAIL N.T.S.



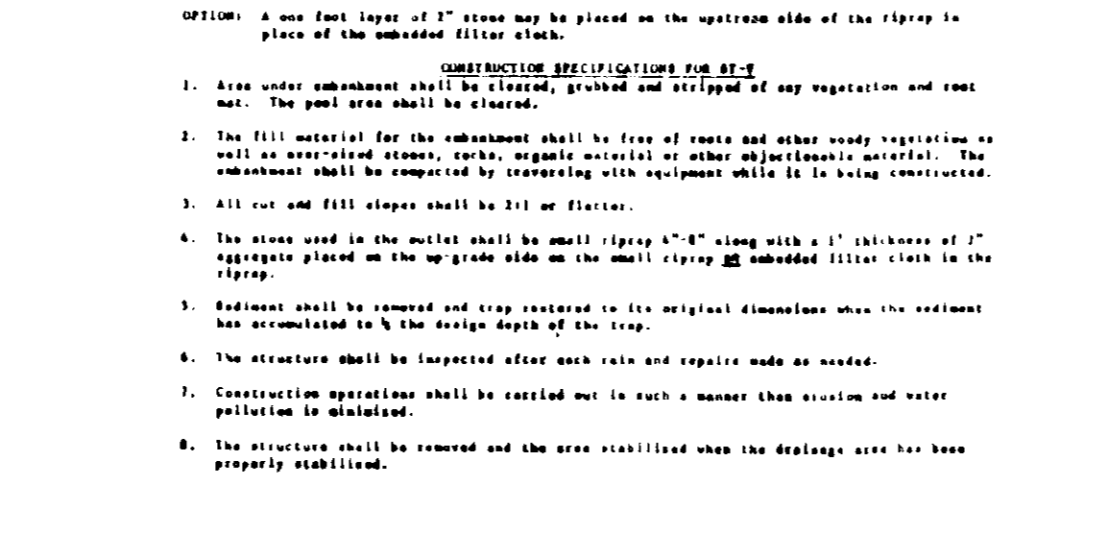
TIMBER RETAINING WALL
NO SCALE



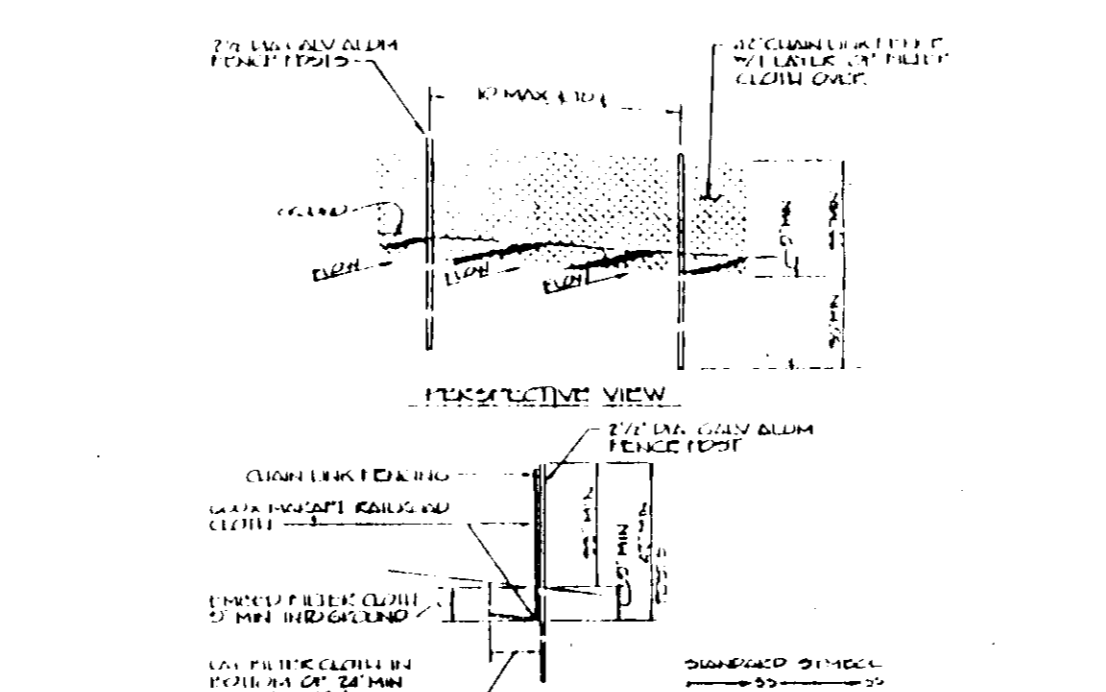
CLOSED SECTION ROADWAY WITHOUT CONCRETE SIDEWALK
NOT TO SCALE



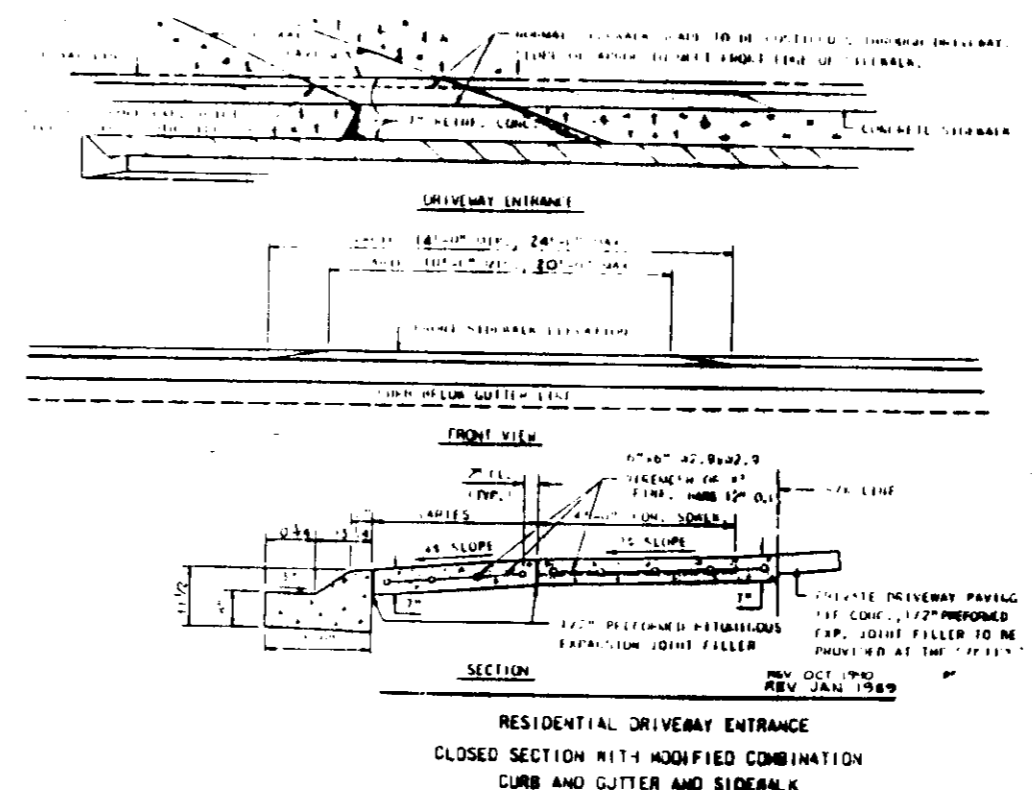
STABILIZED CONSTRUCTION ENTRANCE
NOT TO SCALE



STONE OUTLET SEDIMENT TRAP
NOT TO SCALE



SOPEK SILT FENCE
NOT TO SCALE



RESIDENTIAL DRIVEWAY ENTRANCE
CLOSED SECTION WITH MODIFIED COMBINATION CURB AND CUTTER AND SIDEWALK

NOT TO SCALE
LOTS: 105-107; 125-142

SEDIMENT CONTROL NOTES

1. A minimum of 48 hours notice must be given to the Howard County Department of Inspection, Licenses and Permits, Sediment Control Division prior to the start of any construction (315-1855).
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 reference thereto.
3. Following initial soil disturbances or redisturbances, 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 to all other disturbed or graded areas on the project site.
4. All sediment traps/basins shown must be fenced and warning signs posted around their perimeter in accordance with Vol. 1, Chapter 12, of the "Howard County Design Manual, Storm Drainage".
5. All disturbed areas must be stabilized within the time period specified above in accordance with the "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. 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 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: 10.88 acres
Area to be Disturbed: 14.00 acres
Area to be roofed or paved: 3.44 acres
Area to be vegetatively stabilized: 11.42 acres
Total Cut: 4794 cu. yd.
Total Fill: 3107 cu. yd.
Offsite Waste/Borrow Area Location: e
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 Sediment Control Inspector.
10. On all sites with disturbed areas in excess of 2 acres, approval of the inspection agency and the required 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 is made.
11. Trenches for the construction of utilities limited to three pipe widths or that which can be back filled and stabilized within one working day, whichever is shorter.
12. Quantities and estimates shown are for sediment control purposes only. Contractor shall provide his/her own quantity estimates to his/her 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 construction.
1. Obtain grading permit
 2. Install tree protection fences as indicated on this plan.
 3. Clear and grub the site as indicated in this plan.
 4. Inspect existing sediment and erosion control devices and repair or re-install them if required. Continue using the existing Sediment Basin, as designed under F-1-102.
 5. Install new sediment and erosion control devices and stabilize.
 6. Excavate for foundations, rough grade and temporary stabilize. Except lots 111 & 131, delay construction of these lots until the site is stabilized on the north side is removed with the approval of Howard County Sediment Control Inspector.
 7. Construct structures and driveways.
 8. Final grade and stabilize in accordance with standards and specifications.
 9. Upon approval of the Howard County Sediment Control Inspector, remove sediment and erosion control devices and stabilize.

Date	Day
Day 1	Day 1
Day 2-3	Day 2-3
Day 4-5	Day 4-5
Day 6-7	Day 6-7
Day 8-10	Day 8-10
Day 10-20	Day 10-20
Day 21-31	Day 21-31
Day 32-35	Day 32-35
Day 36-40	Day 36-40

FOREST RETENTION AREA
MACHINERY BURNING OR STORAGE OF ANY MATERIALS IS PROHIBITED
VIOLATORS ARE SUBJECT TO FINES AS IMPOSED BY THE HOWARD COUNTY LUMBERMAN ACT OF 1985

SIGN DETAIL
N.T.S.

BUILDER'S CERTIFICATE

I/We certify that all development and construction will be done in accordance with the plan of development and plan for erosion and sediment control and that all responsible persons involved in the construction of this project will have a certificate of attendance at a Department of the Environment "Erosion Control Training Program" for the control of sediment and erosion before starting this project. I do not authorize, participate, or inspect, by the Howard County Soil Conservation District or their authorized agents, as are hereby authorized.

Lloyd Brown
Signature of Developer
11/19/94
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 E. ...
Signature of Engineer
11/16/94
Date

APPROVED: *[Signature]*
DIRECTOR
12/5/94
DATE

APPROVED: *[Signature]*
DIRECTOR
11/23/94
DATE

APPROVED: *[Signature]*
REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS
11/24/94
DATE

APPROVED: *[Signature]*
THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.
11/16/94
DATE

PERMIT INFORMATION SHEET					
SUBDIVISION NAME: WORTHINGTON RESERVE					
SECTION 2					
LOTS 57-61, 93-111, & 120-143					
SECTION	PARCEL #	LIBER & FOLIO	PREVIOUS FILE:		
2	3	3288/239	S-89-50-P-93-09		
		2548/323	F-94-102-WP-94-01		
			F-92-50		
PLAT No.	BLOCK No.	ZONE	TAX MAP	ELEC. DIST.	CENSUS
11307		R-20	31	2nd	6027
11403					
WATER CODE	SEWER CODE				
G01	1257013				
SCALE:	DATE:				
AS SHOWN	JULY, 1994				

TSA GROUP, INC.
planning • architecture • engineering
8800 Baltimore National Pike • Beltsville City, Maryland 21054 • (410) 468-6100

NO. DATE	REVISION

OWNER/DEVELOPER:
SECURITY DEVELOPMENT CORPORATION
P.O. BOX 417
ELlicott CITY, MARYLAND 21041
(410) 465-4244

PROJECT: **WORTHINGTON RESERVE**
SECTION 2
LOTS 57-61, 93-111, & 120-143

LOCATION:
TAX MAP 31 - PART OF PARCEL 3
2ND ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

BUILDER:
GRAYSON HOMES
9025 CHEVROLET DR., SUITE K
ELlicott CITY, MARYLAND 21043
(410) 461-5900

TITLE: **EROSION & SEDIMENT CONTROL NOTES & DETAILS**

DATE: JULY 1994
NOV 16 1994

PROJECT NO. 0726

DES: YSL/CAM DRN: YSL SCALE: AS SHOWN DRAWING: 8 OF 8