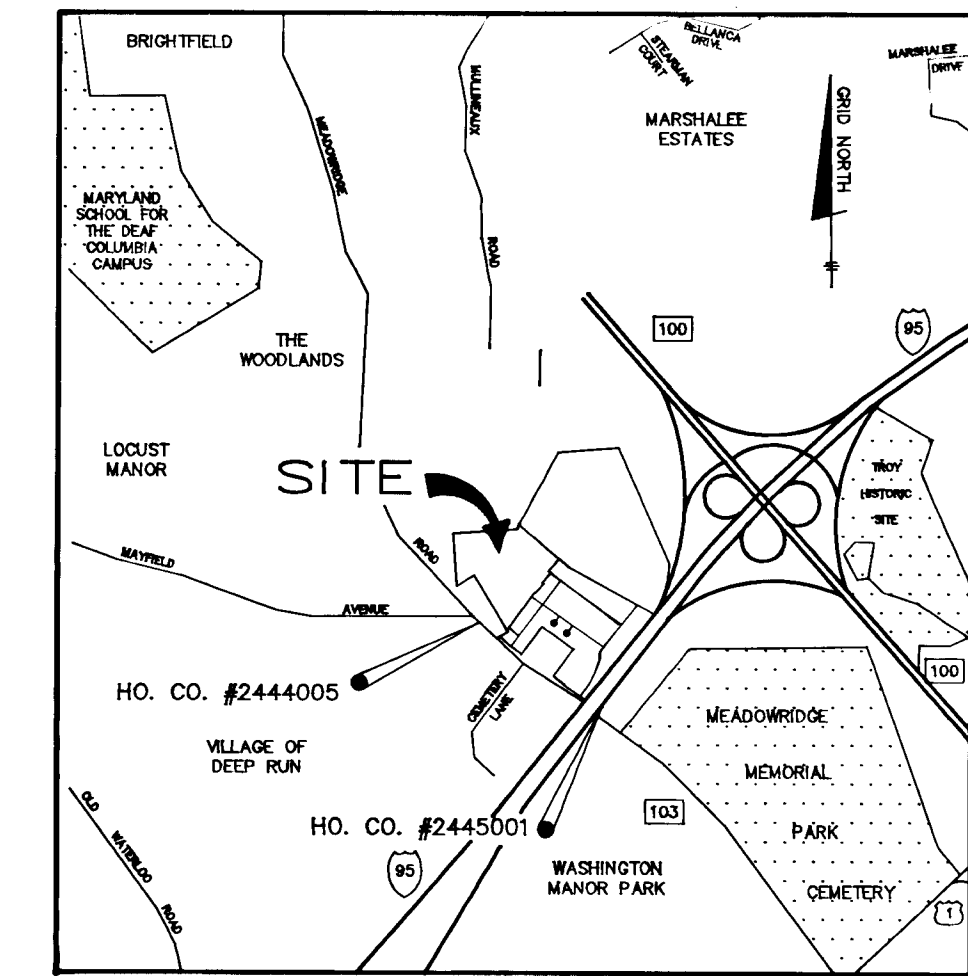


SHEET INDEX	
NO.	DESCRIPTION
1	TITLE SHEET
2	ROADWAY PLAN
3	ROAD PROFILES
4	EROSION AND SEDIMENT CONTROL AND ROADWAY NOTES AND DETAILS
5	DRAINAGE AREA MAP, STORM DRAIN AND DRAINAGE SWALE PROFILES
6	GRADING, SEDIMENT AND EROSION CONTROL PLAN
7	CONCEPTUAL LOT GRADING PLAN
8	PLANTING PLAN

# ROADWAY, STORM DRAINAGE AND GRADING PLAN

## NOTTINGHAM VILLAGE SECTION 2

### 1ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND



VICINITY MAP  
SCALE: 1" = 2000'

**BENCH MARKS**

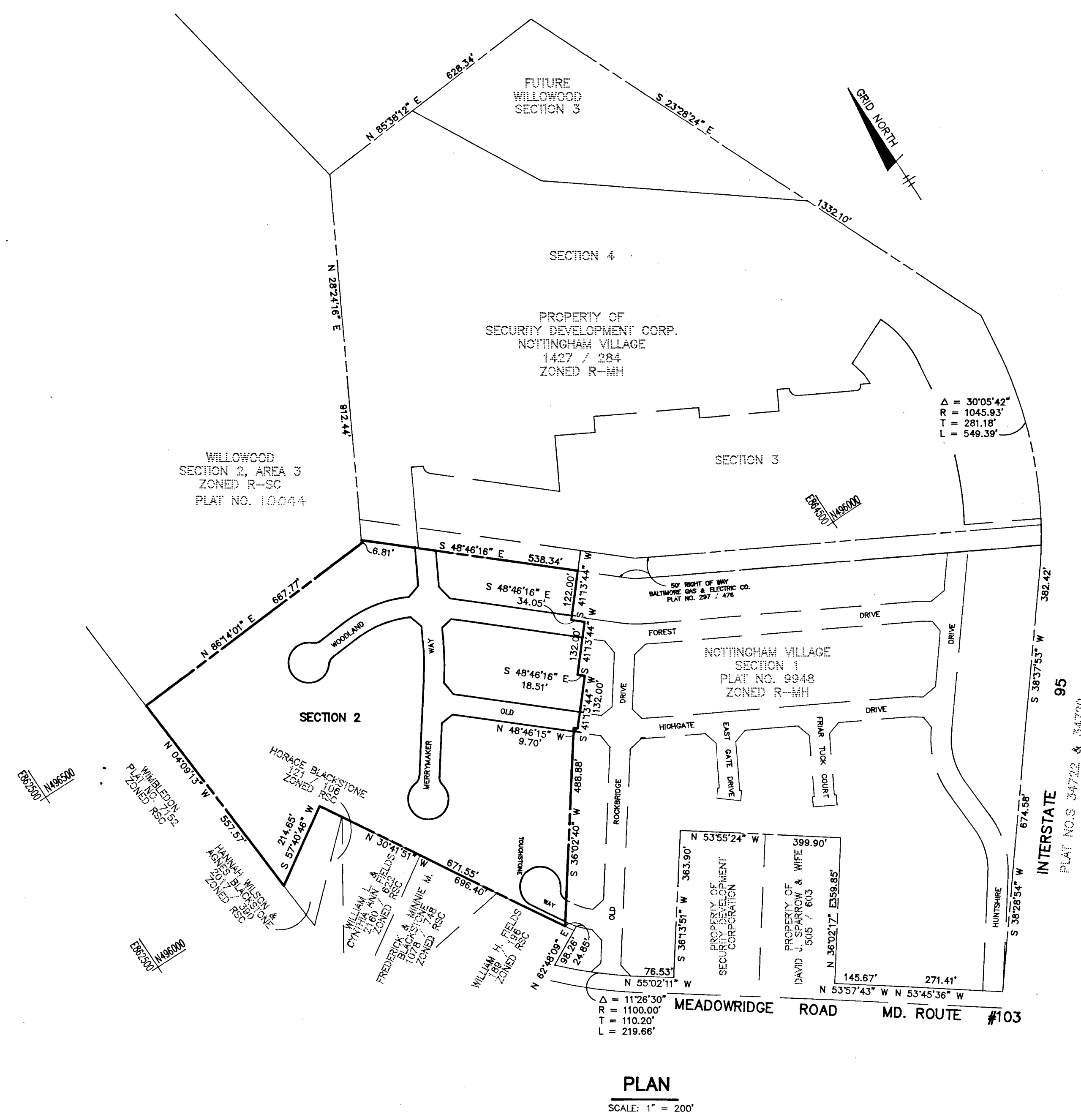
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CONCRETE MONUMENT 0.5' BELOW SURFACE	
N495588.271	E863126.170
HO. CO. BM. # 2445001	ELEV. 245.095
CONCRETE MONUMENT 0.1' BELOW SURFACE	
N494663.186	E864478.479

**GENERAL NOTES**

- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, STANDARD SPECIFICATIONS AND DETAILS FOR ROAD CONSTRUCTION.
- 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, WHERE DIRECTED BY THE ENGINEER, A MINIMUM OF TWO WEEKS IN ADVANCE OF CONSTRUCTION OPERATIONS.
- CONTRACTOR TO NOTIFY THE FOLLOWING UTILITIES AT LEAST THREE DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS.
 

BELL TELEPHONE SYSTEM	393-3649
LONG DISTANCE CABLE DIVISION	393-3553 OR 3554
BALTIMORE GAS AND ELECTRIC	539-8000 EXT. 691
HOWARD CO. BUREAU OF UTILITIES	313-4900
HOWARD CO. CONSTRUCTION INSPECTION	
SURVEY DIVISION	313-2417 OR 2418
- ALL INLETS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOWARD COUNTY STANDARDS.
- ALL STREET CURB RETURNS SHALL HAVE 25.0' RADII UNLESS OTHERWISE NOTED.
- STORM DRAIN TRENCHES WITHIN ROAD RIGHT OF WAY SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH HOWARD COUNTY ROAD CODE.
- INSTALLATION OF TRAFFIC CONTROL DEVICES, MARKING AND SIGNING SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES 1984 EDITION.
- 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 CUL-DE-SACS DESIGNED FOR 25 MPH, ALL LOCAL STREETS DESIGNED FOR 30 MPH, ALL MINOR COLLECTORS DESIGNED FOR 35 MPH, ALL MAJOR COLLECTORS FOR 40 MPH.
--
- ALL ELEVATIONS SHOWN ARE BASED ON U.S.C. AND G.S. MEAN SEA LEVEL DATUM 1929.
- ALL FILL AREAS WITHIN ROADWAYS AND UNDER STRUCTURES TO BE COMPACTED TO A MINIMUM 95% OF MAXIMUM OBTAINABLE DENSITY DETERMINED BY MARSHALL PROCTER.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT  $\mathcal{Q}$  ELEVATIONS.
- PROFILE STATIONS SHALL BE ADJUSTED AS NECESSARY TO CONFORM TO PLAN DIMENSIONS.
- SUBJECT PROPERTY ZONED R-MH PER 8/2/85 COMPREHENSIVE ZONING PLAN.
- TOPD TAKEN FROM AERIAL SURVEY BY MAPPING ASSOCIATES DATED APRIL, 1986 CONTOURS SHOWN AT TWO FEET INTERVALS.
- STORMWATER MANAGEMENT FOR THIS SITE IS PROVIDED UNDER NOTTINGHAM VILLAGE SECTION 1, SDP-86-234/
- THESE PLANS F-02-25 HAVE BEEN PREPARED IN ORDER TO CONVERT PRIVATE ROADS SHOWN ON SDP-86-255 TO PUBLIC ROADS.
- ALL PROPOSED STREET LIGHTS ARE TO BE 100 WATT TRADITIONAL SODIUM VAPOR LAMP POST TOP FIXTURE ON 14 FOOT BLACK FIBERGLASS POLES.

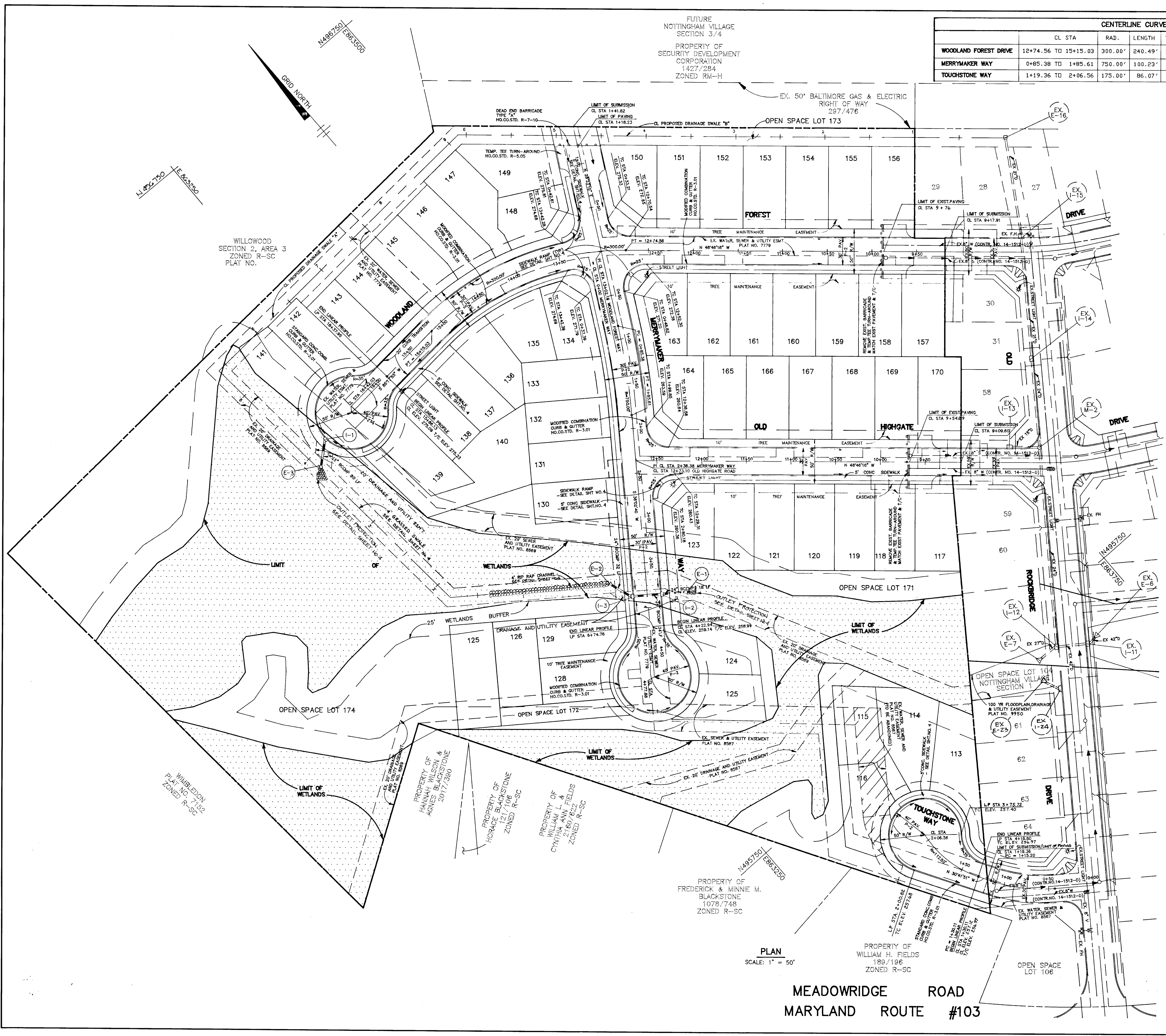


PLAN  
SCALE: 1" = 200'

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS <i>[Signature]</i> CHIEF, LAND DEVELOPMENT DIVISION <i>[Signature]</i> CHIEF, BUREAU OF HIGHWAYS <i>[Signature]</i> CHIEF, BUREAU OF ENGINEERING		DATE 7/27/92 DATE 8-24-92
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING <i>[Signature]</i> CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT		DATE 8/2/92
NO.	DATE	REVISION
<b>T S A GROUP INC.</b> planning • architecture • engineering 8400 Baltimore National Pike • Ellicott City, Maryland 21043 • (410) 466-6105		
OWNER SECURITY DEVELOPMENT CORP. P.O. BOX 417 ELLICOTT CITY, MARYLAND 21043 (410) 465-4244		PROJECT <b>NOTTINGHAM VILLAGE</b> SECTION 2 LOTS 113 THRU 174
DEVELOPER SECURITY DEVELOPMENT CORP. P.O. BOX 417 ELLICOTT CITY, MARYLAND 21043 (410) 465-4244		LOCATION TAX MAP NO. 37 ZONING MAP NO. 37, PARCEL 615 1ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND
TITLE <b>TITLE SHEET</b>		F-87-156, SDP-86-255, F-92-35, WP-92-110 DATE: JULY 2, 1992 PROJECT NO. 342
DES. JH	DRN. JH	SCALE: AS SHOWN DRAWING 1 OF 8

1647

1647



CENTERLINE CURVE DATA							
	CL STA	RAD.	LENGTH	TANGENT	CHORD	CHD. BEARING	DELTA
WOODLAND FOREST DRIVE	12+74.56 TO 15+15.03	300.00'	240.49'	127.13'	234.10'	N 71°44'10" W	45°55'49"
MERRYMAKER WAY	0+85.38 TO 1+85.61	750.00'	100.23'	50.19'	100.15'	N 32°12'58" E	28°10'48"
TOUCHSTONE WAY	1+19.36 TO 2+06.56	175.00'	86.07'	43.92'	85.21'	N 13°38'07" W	11°13'34"

CENTERLINE CONTROL DATA			
WOODLAND FOREST DRIVE		NORTH	EAST
L.D.S. STA	9+17.91	496122.9597	863839.9192
PC STA	12+74.56	496358.0187	863571.6865
PT STA	13+02.19	496375.2467	863550.0981
PI STA	15+15.03	496431.3845	863349.3771
CUL DE SAC STA	16+42.03	496450.9776	863222.6926
OLD HIGHGATE ROAD		NORTH	EAST
L.D.S. STA	9+90.60	495934.7793	863699.6179
PI STA	2+36.38	496174.3446	863426.2359
MERRYMAKER WAY		NORTH	EAST
L.D.S. STA	1+41.82	495979.0772	863284.1343
PI STA	0+30.00	496174.3446	863426.2359
PC STA	0+85.38	496215.3996	863456.1128
PT STA	1+85.61	496300.1348	863509.5064
PI STA	2+36.38	496375.2467	863550.0981
CUL DE SAC STA	4+77.88	496500.0122	863617.5234
TOUCHSTONE WAY		NORTH	EAST
L.D.S. STA	1+19.36	495565.3933	863417.1894
CUL DE SAC STA	2+06.56	495648.1977	863397.1028

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
*John M. Terzaghi*  
 CHIEF, LAND DEVELOPMENT DIVISION  
 DATE: 8/20/92

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING  
*William H. Blumh*  
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT  
 DATE: 7/23/92

NO. DATE REVISION

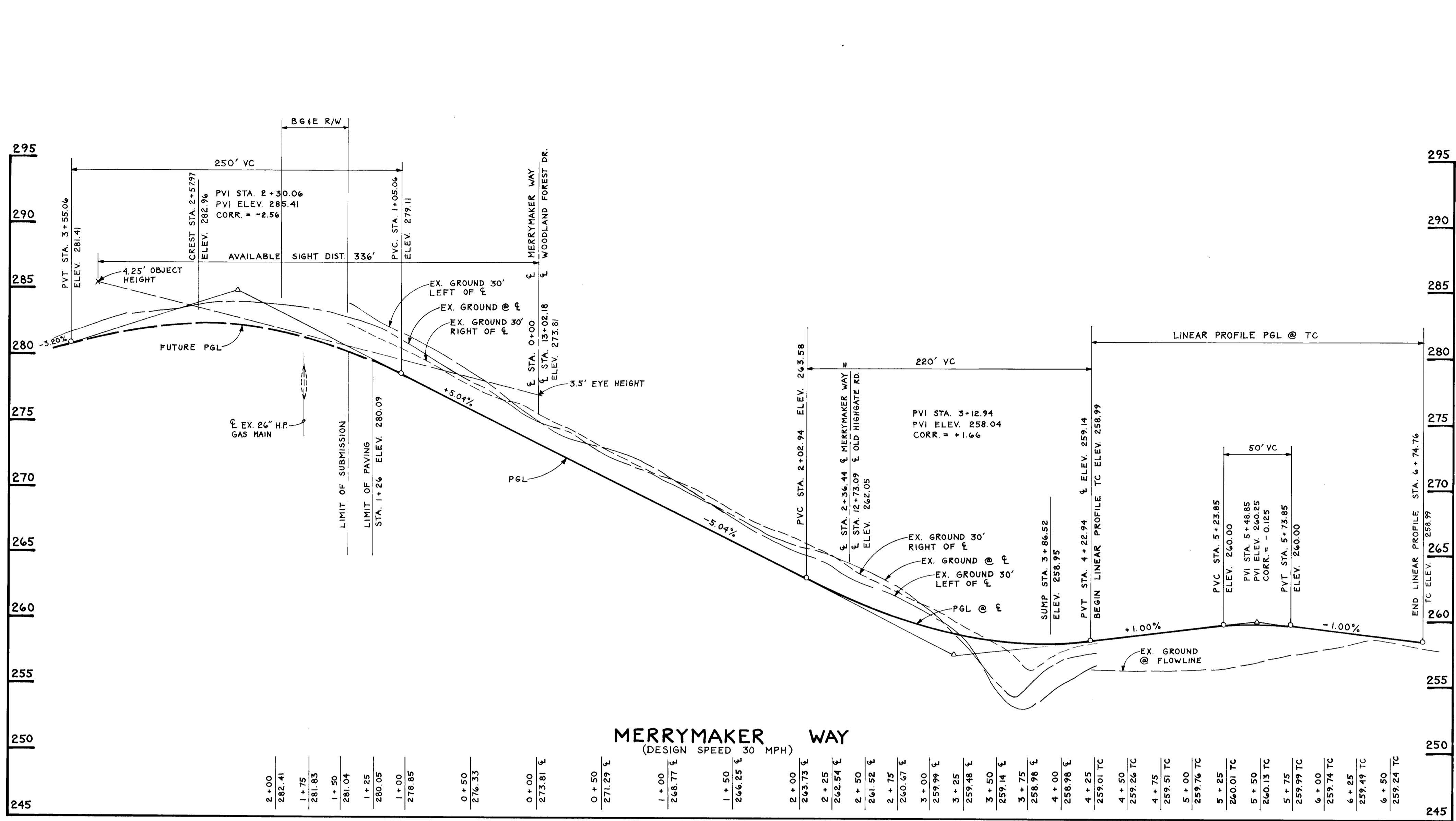
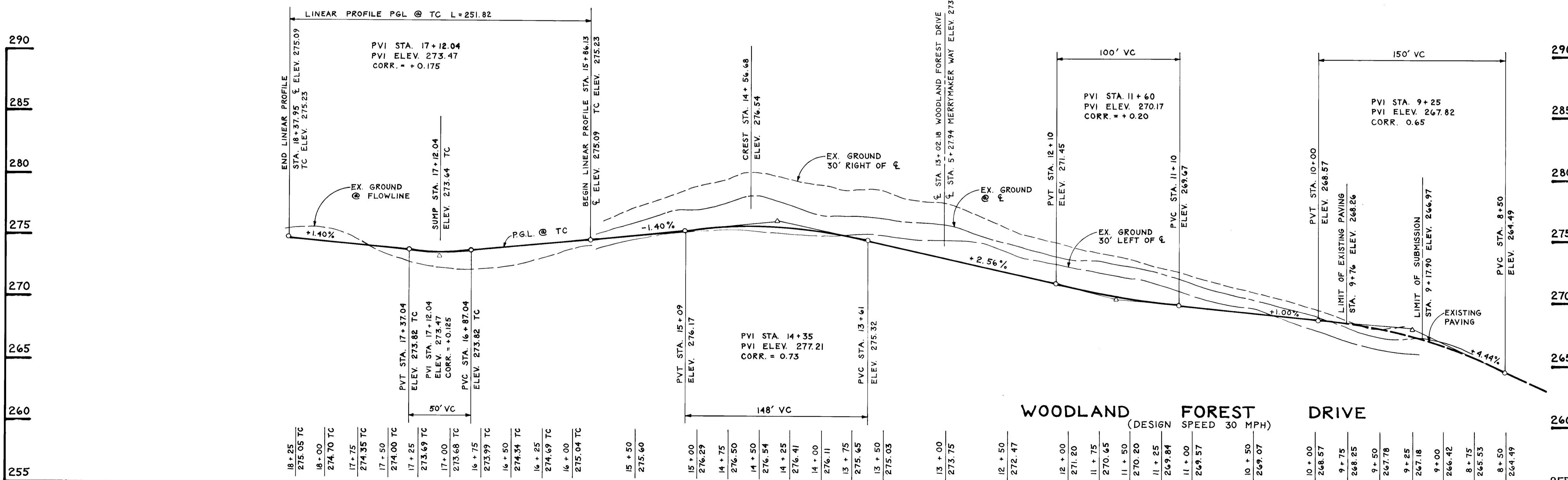
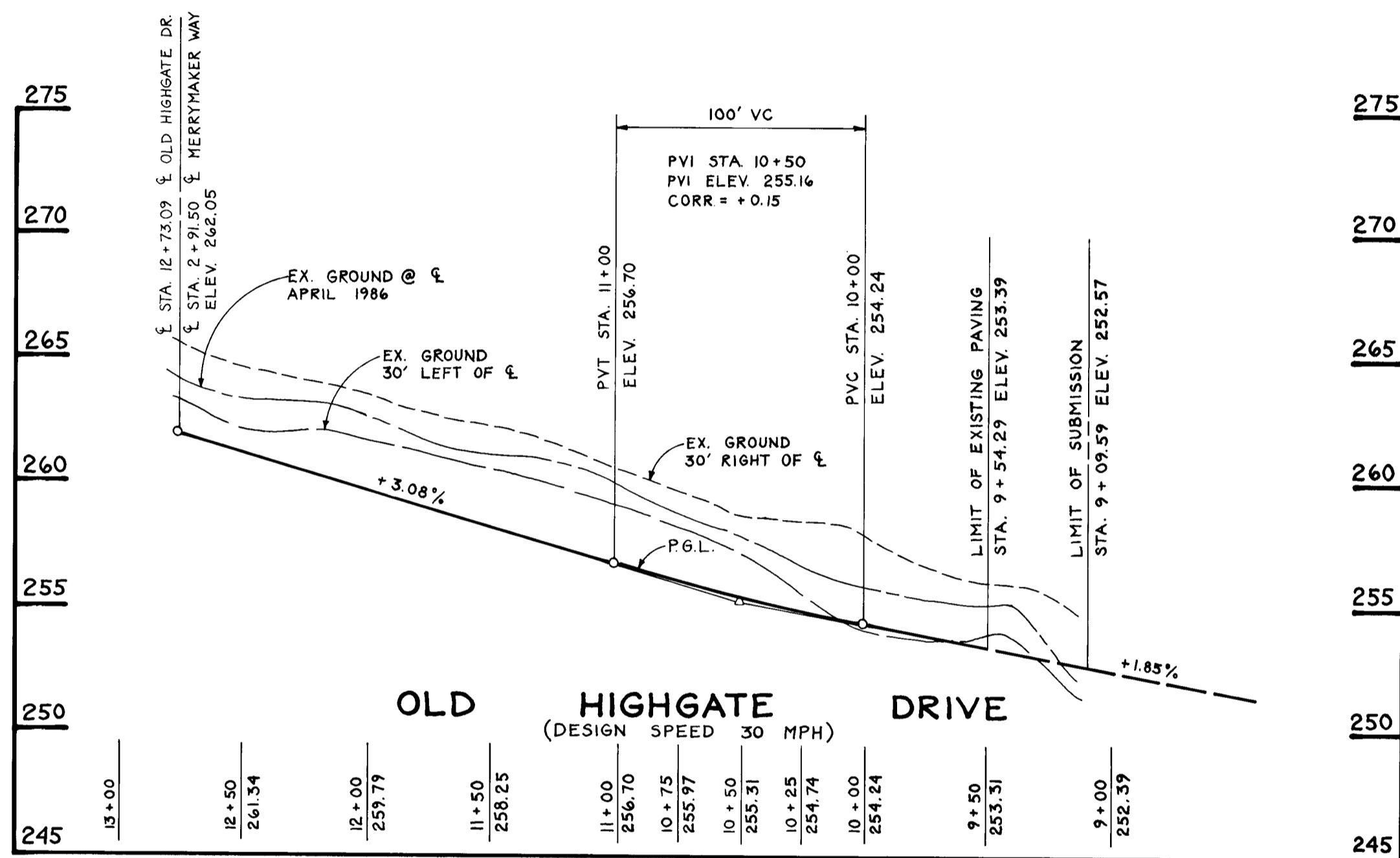
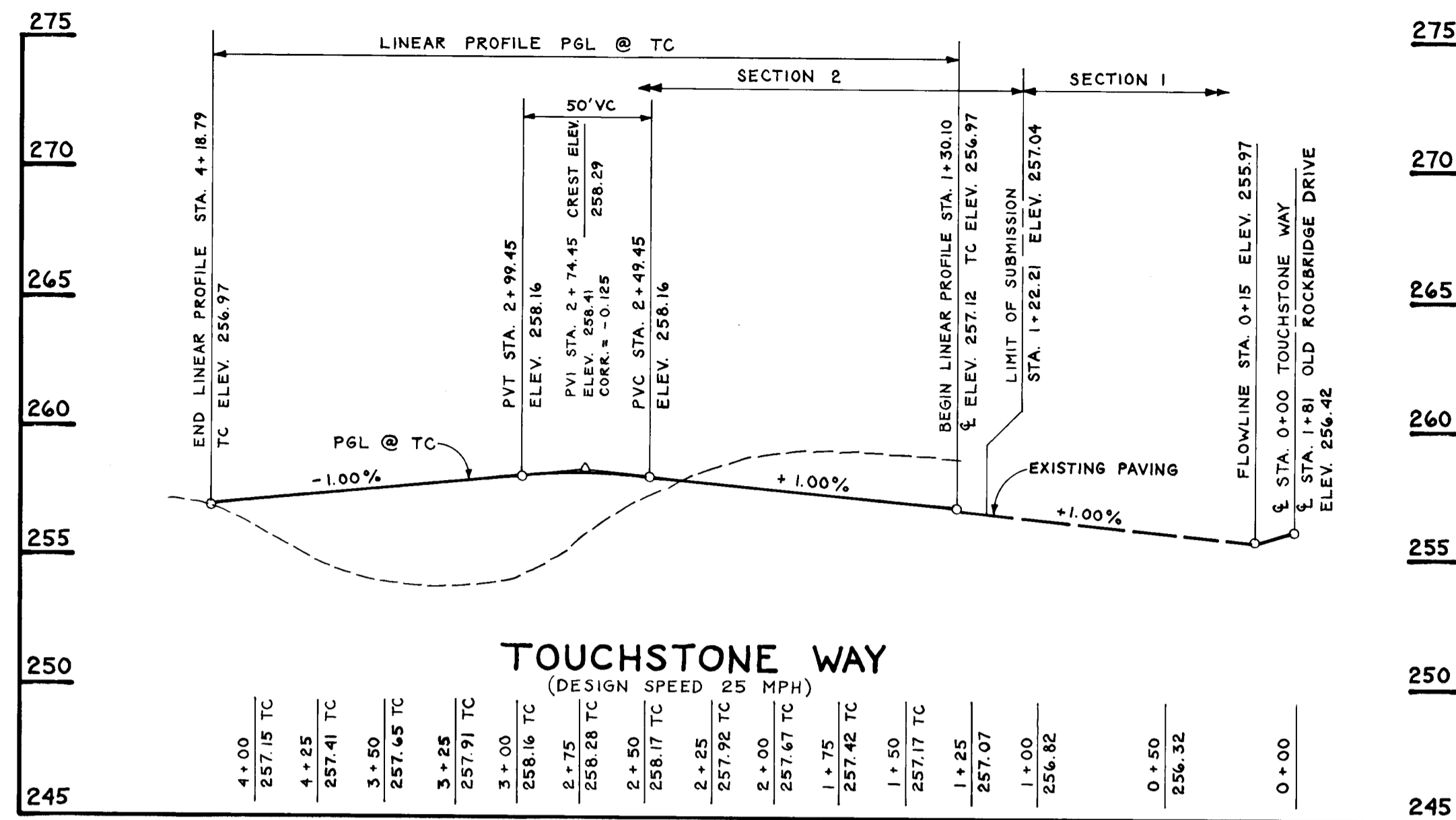
T S A GROUP INC.  
 planning • architecture • engineering  
 8480 Baltimore National Pike • Ellicott City, Maryland 21043 • (410) 465-6105

OWNER	SECURITY DEVELOPMENT CORP. P.O. BOX 417 ELLCOTT CITY, MARYLAND 21043 (410) 465-6105	PROJECT	NOTTINGHAM VILLAGE SECTION 2 LOTS 113 THRU 174
DEVELOPER	SECURITY DEVELOPMENT CORP. P.O. BOX 417 ELLCOTT CITY, MARYLAND 21043 (410) 465-6105	LOCATION	TAX MAP NO. 37 ZONING MAP NO. 37 PARCEL NO. 615 1st ELECTION DISTRICT HOWARD COUNTY, MARYLAND
DES.	JH	DRN.	JH
TITLE		ROADWAY PLAN	
DATE: JULY 2, 1992		PROJECT NO. 342	
SCALE: 1" = 50'		DRAWING 2 OF 8	

FUTURE NOTTINGHAM VILLAGE SECTION 3/4  
 PROPERTY OF SECURITY DEVELOPMENT CORPORATION  
 1427/284  
 ZONED RM-H

PLAN  
 SCALE: 1" = 50'

MEADOWRIDGE ROAD  
 MARYLAND ROUTE #103



APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
*Howard M. ...*  
 CHIEF, LAND DEVELOPMENT DIVISION  
*Oliver M. ...*  
 CHIEF, BUREAU OF HIGHWAYS  
*...*  
 CHIEF, BUREAU OF ENGINEERING

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING  
*Emma ...*  
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

NO.	DATE	REVISION

**T S A GROUP INC.**  
 planning • architecture • engineering  
 8400 Baltimore National Pike • Millcott City, Maryland 21043 • (410) 465-8105

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

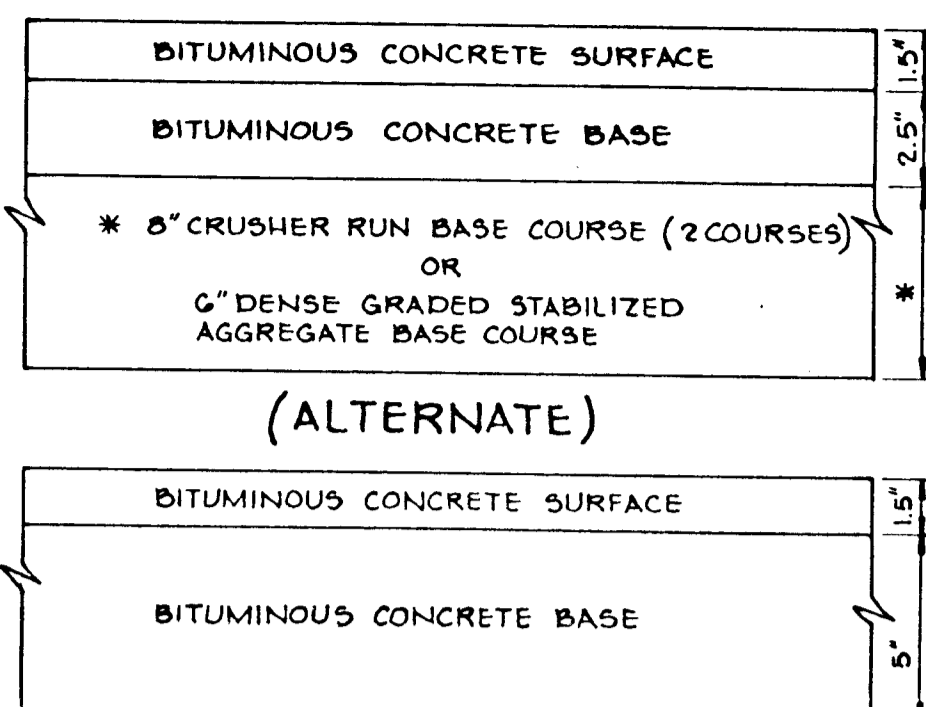
PROJECT: **NOTTINGHAM VILLAGE**  
 SECTION 2  
 LOTS 113 THRU 174

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

TITLE: ROAD PROFILES  
 F-87-156, SDP-88-255, F-92-35, WP-92-110  
 DATE: JULY 2, 1992  
 PROJECT NO. 342  
 SCALE: HORIZ. 1" = 50'  
 VERT. 1" = 5'

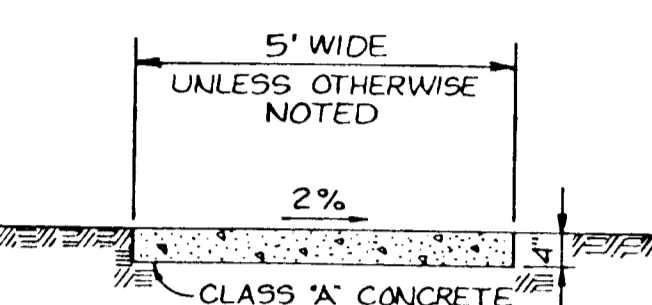
DES. DAM DRN. SHS  
 DRAWING 3 OF 8

1647

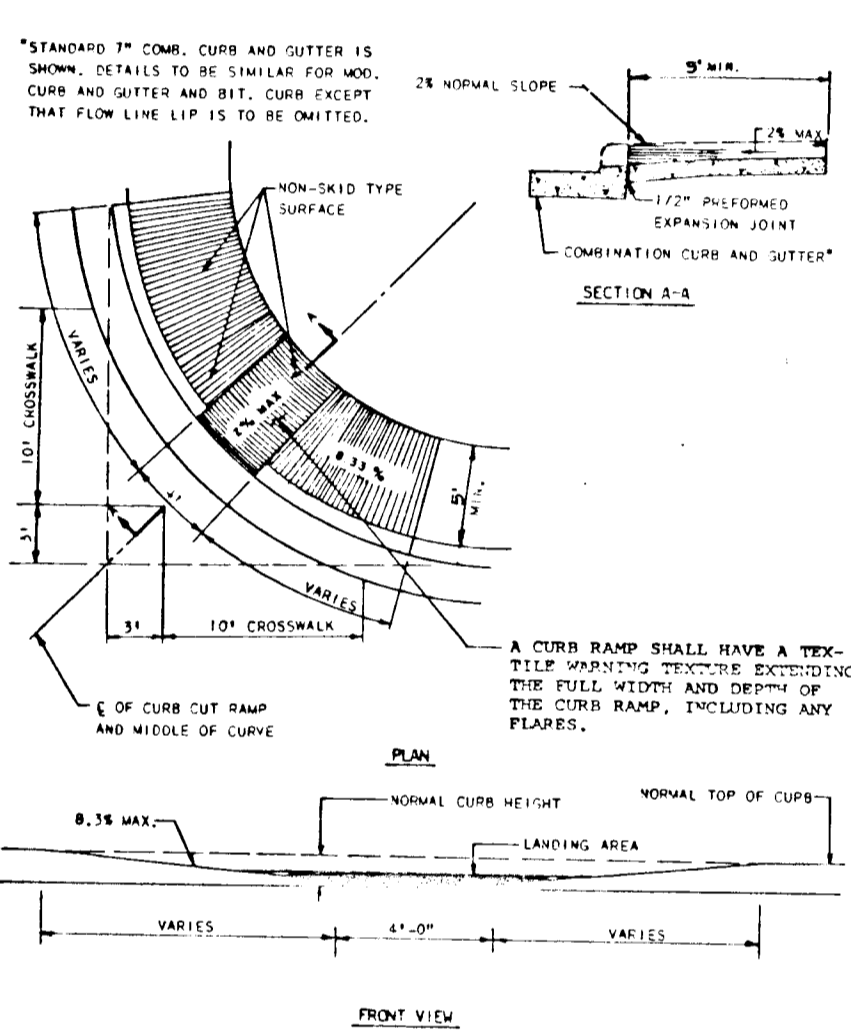


HOWARD COUNTY DESIGN MANUAL VOLUME IV  
STANDARD SPECIFICATIONS AND DETAILS FOR  
CONSTRUCTION (DRAWING R-201)

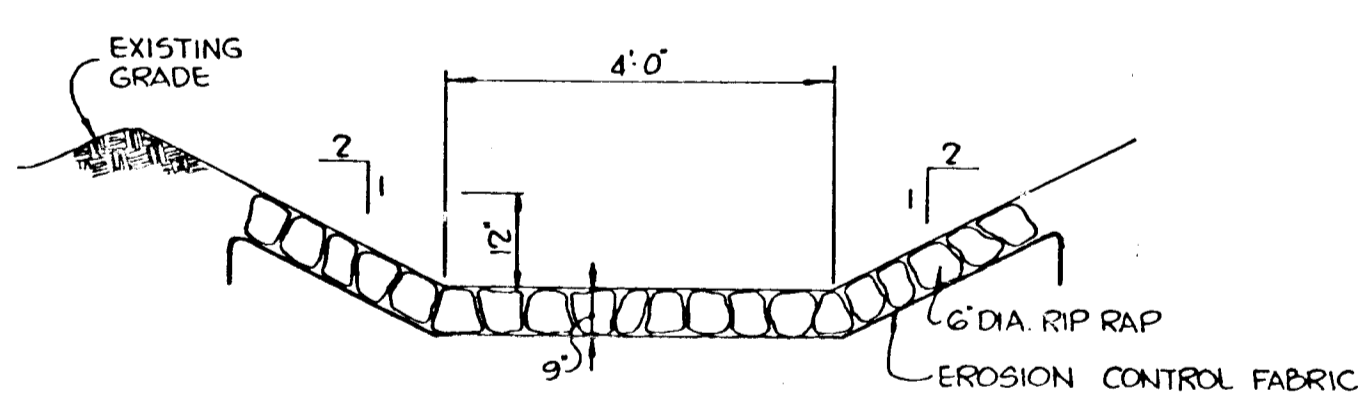
**6 1/2" PAVING, P-2**  
NO SCALE



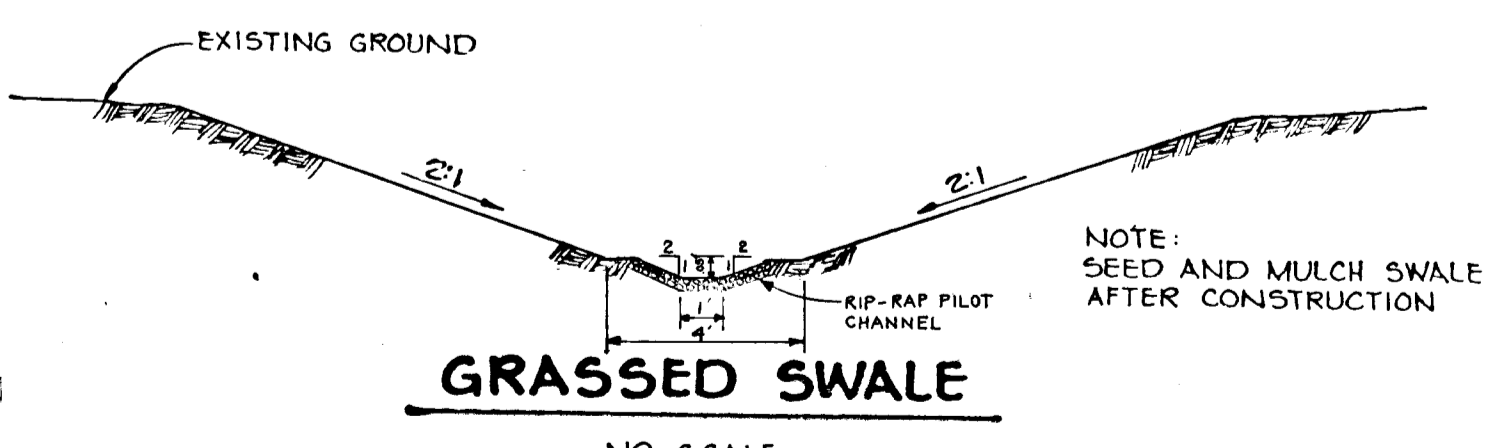
**SIDEWALK DETAIL**  
NO SCALE



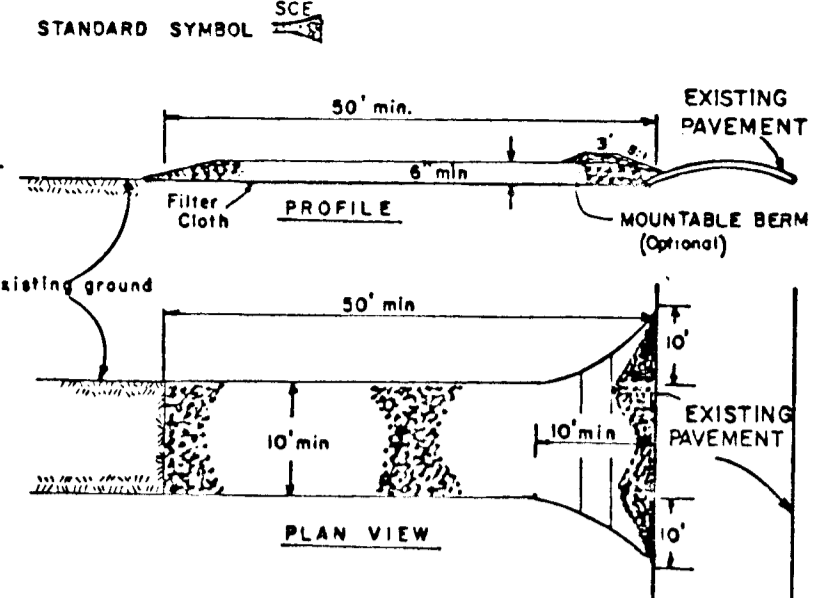
**SIDEWALK RAMP TYPE 'C'**  
NO SCALE



**4'-0" RIPRAP CHANNEL**  
TYPICAL SECTION  
NO SCALE

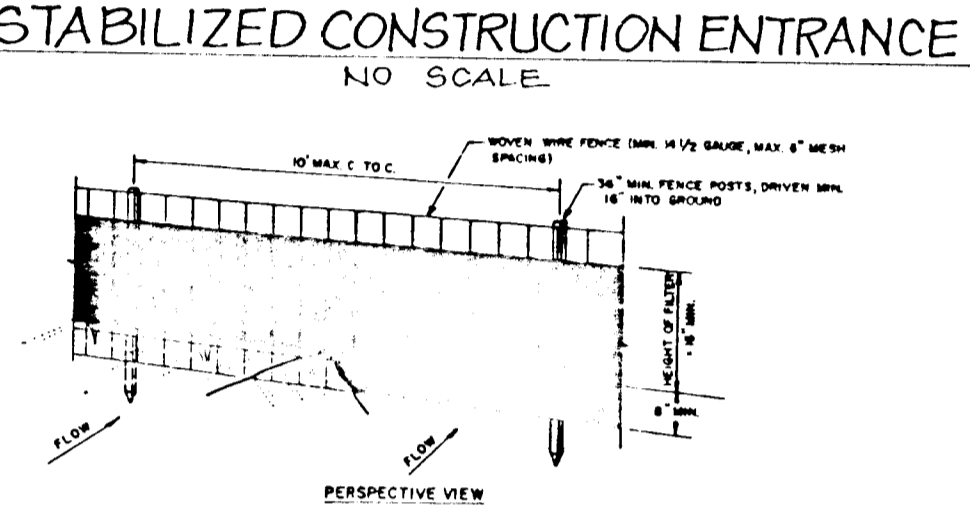


**GRASSED SWALE**  
NO SCALE



**STABILIZED CONSTRUCTION ENTRANCE**  
NO SCALE

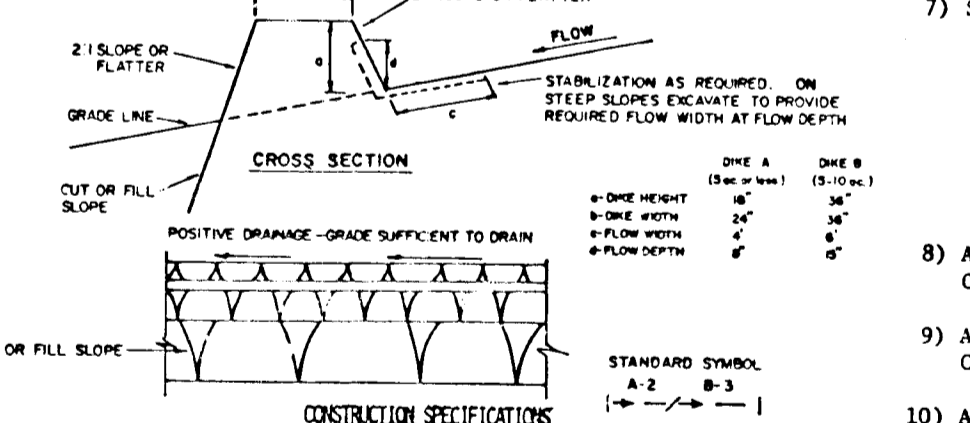
1. Stone Size - Use 2" stone, or reclaimed or recycled concrete equivalent.
2. Length - As required, but not less than 50 feet (except on a single residence lot where a 30 foot minimum length would apply).
3. Thickness - Not less than 18" (48 inches).
4. Width - Ten (10) foot minimum, but not less than the full width at points where ingress or egress occurs.
5. Filter Cloth - Will be placed over the entire area prior to placing of stone. Filter will not be required on a single family residence lot.
6. Surface Meter - All surface water flowing or diverted toward construction entrances shall be piped across the entrance. If piping is impractical, a mountable beam with 6% slope will be permitted.
7. Maintenance - The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto public rights-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or cleaning of any measures used to trap sediment. All sediment spilled, dropped, washed or tracked onto public rights-of-way must be removed immediately.
8. Washing - Wheels shall be cleaned to remove sediment prior to entrance to public rights-of-way. When washing is required, it shall be done on an area stabilized with stone and which drains into an approved sediment trapping device.
9. Periodic inspection and needed maintenance shall be provided after each rain.



**CONSTRUCTION NOTES FOR FABRICATED SILT FENCE**

1. WHEN WIRE FENCE IS TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
2. FILTER CLOTH IS TO BE FASTENED SECURELY TO WIRE FENCE WITH WIRE TIES OR STAPLES EVERY 20' AT TOP AND MID SECTION.
3. WHEN THE SECTIONS OF FILTER CLOTH AND EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND POLYESTER.
4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND NOTIFIED WHEN "BRAKS" DEVELOP IN THE SILT FENCE.

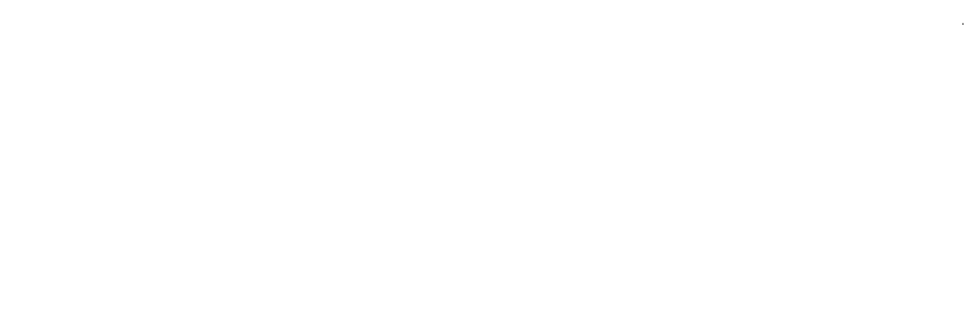
**SILT FENCE**  
NO SCALE



1. ALL DISES SHALL BE COMPACTED BY EARTH-MOVING EQUIPMENT.
2. ALL DISES SHALL HAVE POSITIVE DRAINAGE TO AN OUTLET.
3. TOP WIDTH MAY BE WIDER AND SLOPES MAY BE FLATTER IF DESIRED TO FACILITATE CROSSING BY CONSTRUCTION TRUCKS.
4. FIELD LOCATION SHOULD BE ADJUSTED AS NEEDED TO UTILIZE A STABILIZED SAFE OUTLET.
5. EARTH DISES SHALL HAVE AN OUTLET THAT FUNCTIONS WITH MINIMUM OF EROSION. STORMY SHALL BE COMPLETED TO A SEDIMENT TRAPPING DEVICE SUCH AS A SEDIMENT TRAP OR SEDIMENT BASIN WITHIN THE DISE CHANNEL OR THE DRAINAGE AREA ABOVE THE DISE ARE NOT IMMEDIATELY STABILIZED.
6. STABILIZATION SHALL BE: (A) IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR SEED AND STRAW MULCH OR STRAW MULCH IF NOT IN SEEDING SEASON, (B) FLOW CHANNEL AS PER THE CHART BELOW.

TYPE OF TREATMENT	CHANNEL LENGTH	DISE A	DISE B
1	5-3.00	SEED AND STRAW MULCH	SEED AND STRAW MULCH
2	3.1-5.00	SEED AND STRAW MULCH	SEED WITH MULCH, OR EXCELSTON, SOILS & STONE
3	5.1-8.00	SEED WITH MULCH, OR SOILS	LINED RIP-RAP 4-8"
4	8.1-2000	LINED RIP-RAP 4-8"	ENGINEERING DESIGN

**EARTH DIKE**  
NO SCALE



**PERMANENT SEEDBED PREPARATION**

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 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. 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 sq ft).
- 2) ACCEPTABLE - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 lbs/1000 sq ft) AND 1000 LBS PER ACRE 10-10-10 FERTILIZER (23 lbs/1000 sq ft) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE INCHES OF SOIL.

SEEDING: FOR PERIODS MARCH 1 THRU APRIL 30 AND AUGUST 1 THRU OCTOBER 15, SEED WITH 80 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 OF KENTUCKY 31 TALL FESCUE PER ACRE AND 2 LBS PER ACRE (.05 lbs/1000 sq ft) OF WEEPING LOVEGRASS. DURING THE PERIOD 1 OCTOBER 16 THRU FEBRUARY 28, PROTECT SITE BY: OPTION (1) 2 TONS PER ACRE OF WELL ANCHORED MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING. OPTION (2) USE SOO. OPTION (3) SEED WITH 60 LBS PER ACRE OF KENTUCKY 31 TALL FESCUE AND MULCH WITH 2 TONS PER ACRE OF WELL ANCHORED STRAW.

MULCHING: APPLY 1-1/2 TO 2 TONS PER ACRE (70 TO 90 lbs/1000 sq ft) OF UNKNOTTED 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 SEEDBED AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDINGS.

**TEMPORARY SEEDBED PREPARATION**

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 300 LBS PER ACRE 10-10-10 FERTILIZER (14 lbs/1000 sq ft).

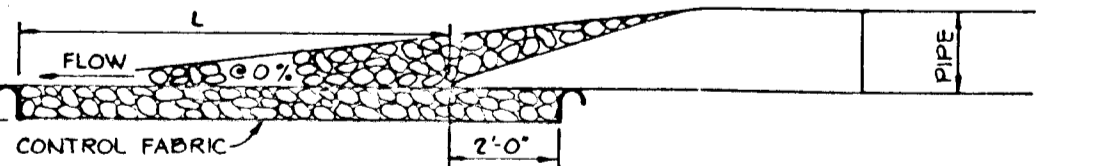
SEEDING: FOR PERIODS MARCH 1 THRU APRIL 30 AND FROM AUGUST 15 THRU NOVEMBER 15, SEED WITH 2-1/2 BUSHELS PER ACRE OF ANNUAL RYE (3.2 lbs/1000 sq ft). FOR THE PERIOD MAY 1 THRU AUGUST 14, SEED WITH 3 LBS PER ACRE OF WEEPING LOVEGRASS (.07 lbs/1000 sq ft). FOR THE PERIOD NOVEMBER 16 THRU FEBRUARY 28, PROTECT SITE BY APPLYING 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING, OR USE SOO.

MULCHING: APPLY 1-1/2 TO 2 TONS PER ACRE (70 TO 90 lbs/1000 sq ft) OF UNKNOTTED 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 FT. OR HIGHER, USE 348 GALLONS PER ACRE (8 gal/1000 sq ft) FOR ANCHORING.

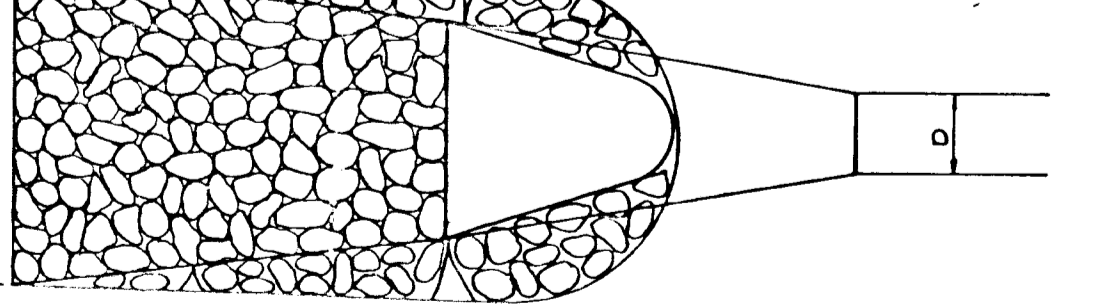
REFER TO THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND PRACTICES NOT COVERED.

**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 (992-2437).
- 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 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 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 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDINGS (Sec. 51) SOO (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 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: 15.10 ACRES  
AREA DISTURBED: 5.77 ACRES  
AREA TO BE PAVED: 2.1 ACRES  
AREA TO BE VEGETATIVELY STABILIZED: 3.6 ACRES  
TOTAL CUT: 3970 CU. YDS.  
TOTAL FILL: 3970 CU. YDS.  
OFFSITE WASTE/BORROW AREA LOCATION: N/A
- 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 DPM SEDIMENT CONTROL INSPECTOR.
- 10) ALL SEDIMENT TRAPS 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.

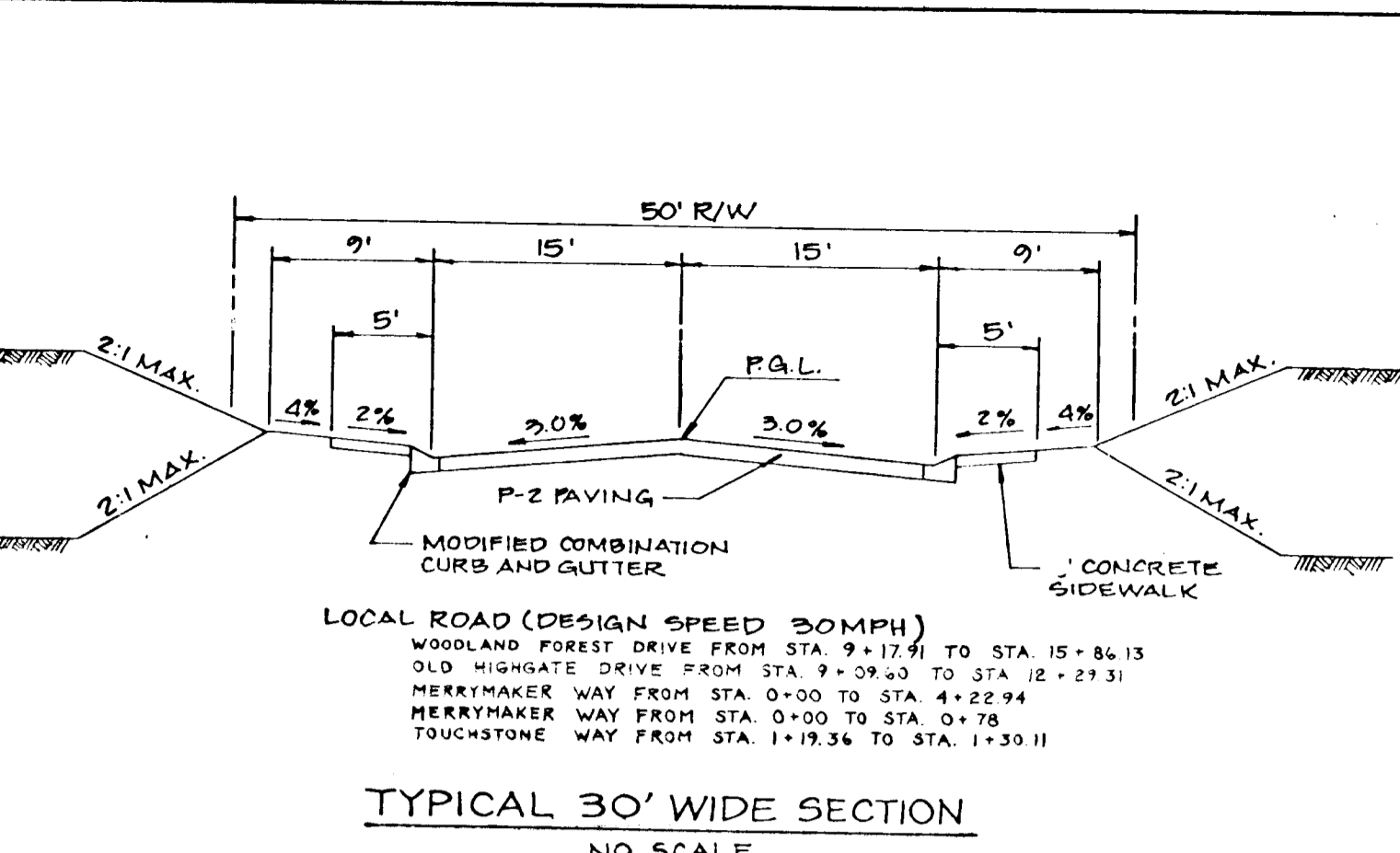


**EROSION CONTROL FABRIC**  
SECTION



STRUCTURE	d - 50	LENGTH (L)	WIDTH (W)	THICKNESS (T)
E-1	0.5'	10'	12'	1.13'
E-3	0.5'	10'	12'	1.13'

**OUTLET PROTECTION DETAIL**  
NO SCALE



**TYPICAL 30' WIDE SECTION**  
NO SCALE

LOCAL ROAD (DESIGN SPEED 30MPH)  
WOODLAND FOREST DRIVE FROM STA. 9+17.41 TO STA. 15+86.15  
OLD HIGHGATE DRIVE FROM STA. 9+29.43 TO STA. 12+27.31  
HERRICKMAKER WAY FROM STA. 0+00 TO STA. 4+22.94  
HERRICKMAKER WAY FROM STA. 0+00 TO STA. 0+78  
TOUCHSTONE WAY FROM STA. 1+19.36 TO STA. 1+30.11

BY THE DEVELOPER:  
I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A MARYLAND 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.  
*James R. Moxley, Jr.*  
DEVELOPER: JAMES R. MOXLEY, JR. 7-2-92  
SECURITY DEVELOPMENT CORPORATION, L.P. PRESIDENT DATE

BY THE ENGINEER:  
I CERTIFY THAT THESE PLANS FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD CONSERVATION DISTRICT.  
*John M. Elorriaga, P.E.*  
ENGINEER: JOHN M. ELORRIAGA, P.E. # 16891 7/2/92  
DATE

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SOIL EROSION AND SEDIMENT CONTROL.  
*James M. Helm, JMM*  
S.O. SOIL CONSERVATION SERVICE 7/24/92  
DATE

THESE PLANS MEET FOR EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.  
*John R. Redman*  
HOWARD S.C.D. 7/29/92  
DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
*Alan M. Pennington*  
CHIEF, LAND DEVELOPMENT DIVISION 8/20/92  
DATE  
*Alan M. Pennington*  
CHIEF, BUREAU OF HIGHWAYS 7/20/92  
DATE  
*James R. Moxley, Jr.*  
CHIEF, BUREAU OF ENGINEERING 8-24-92  
DATE

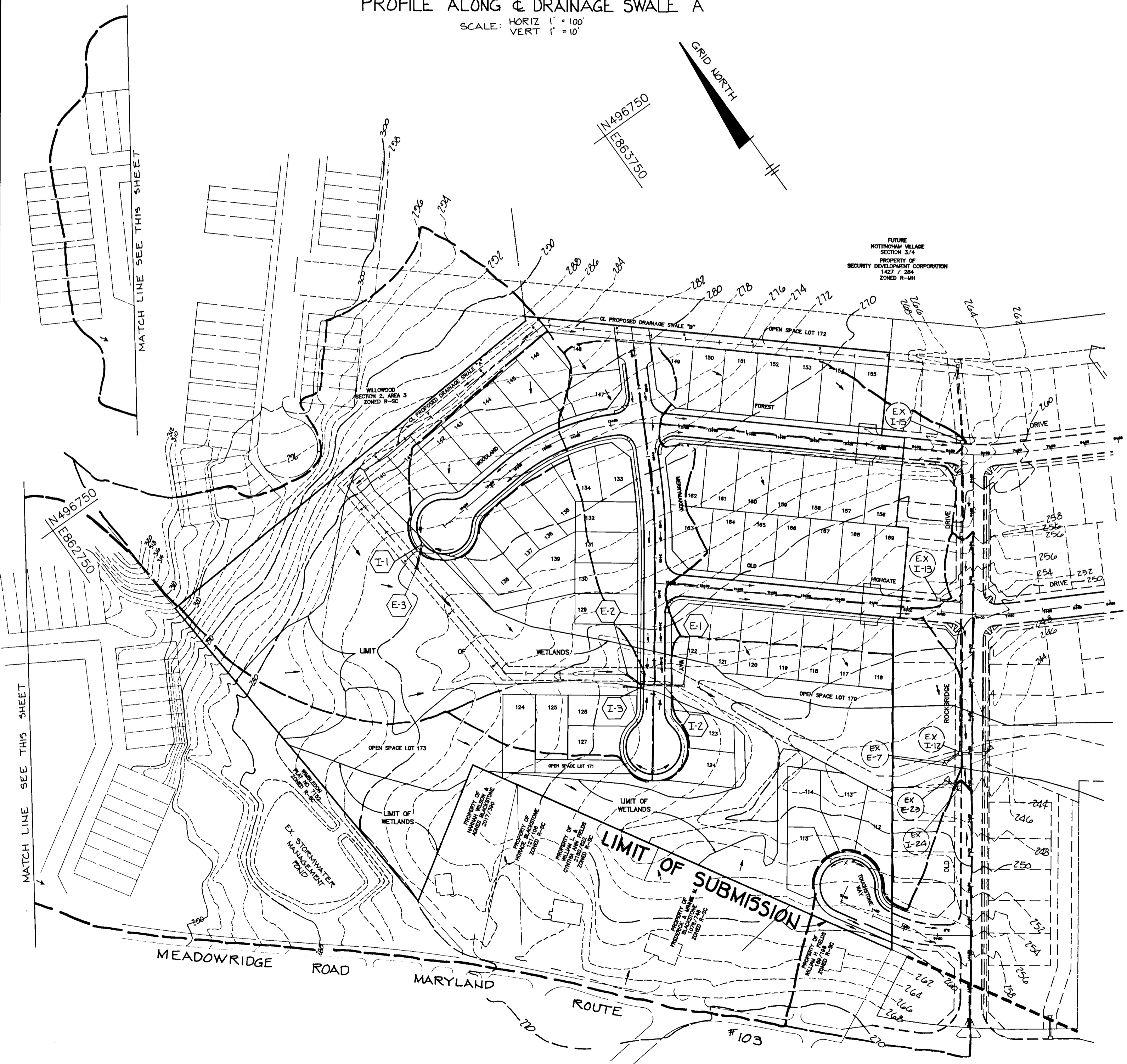
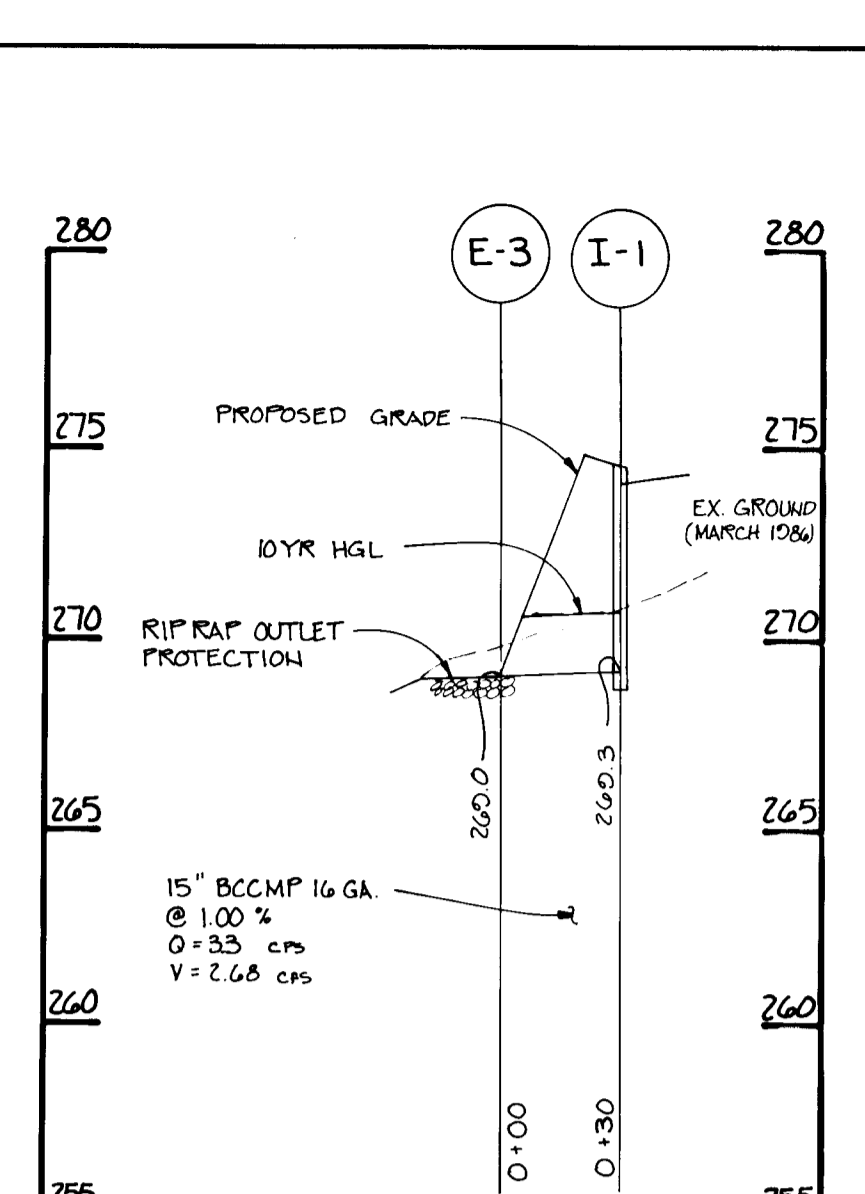
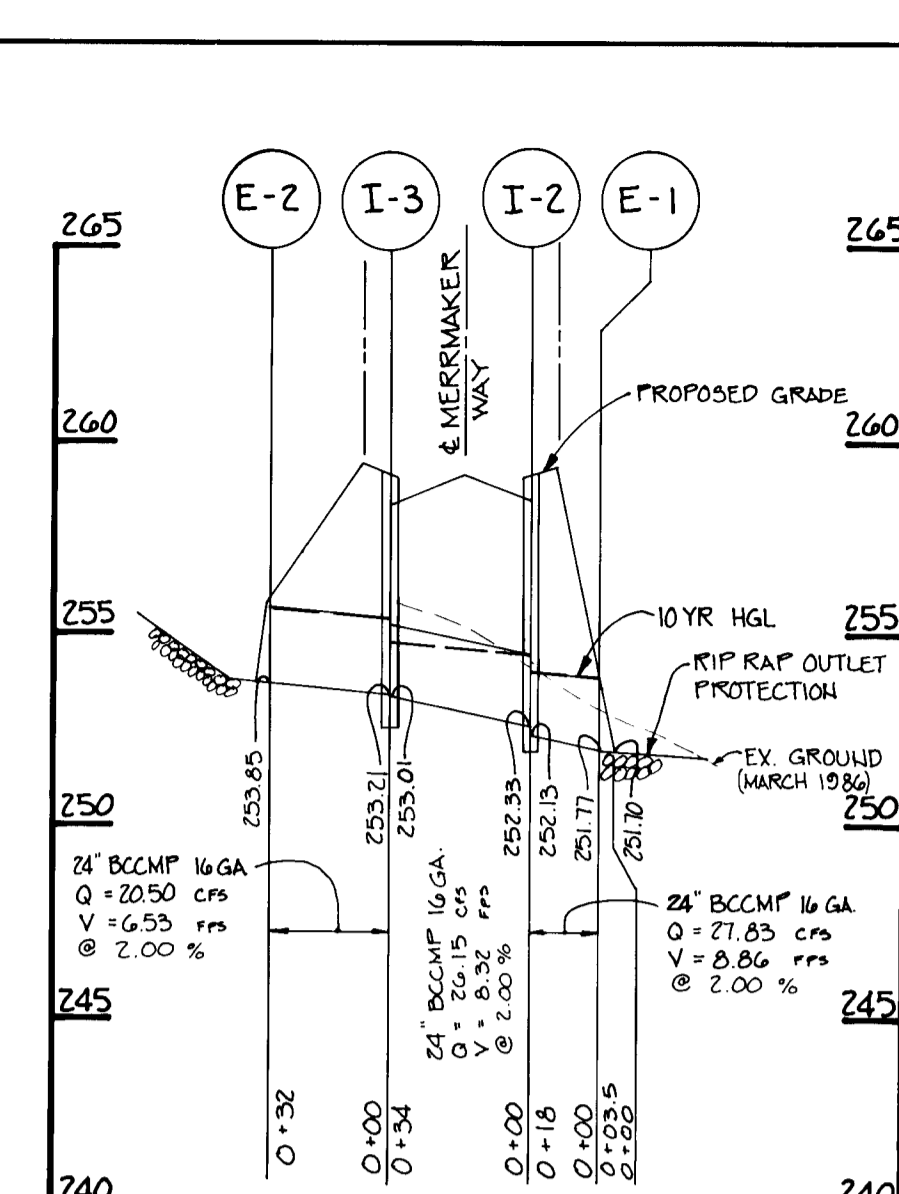
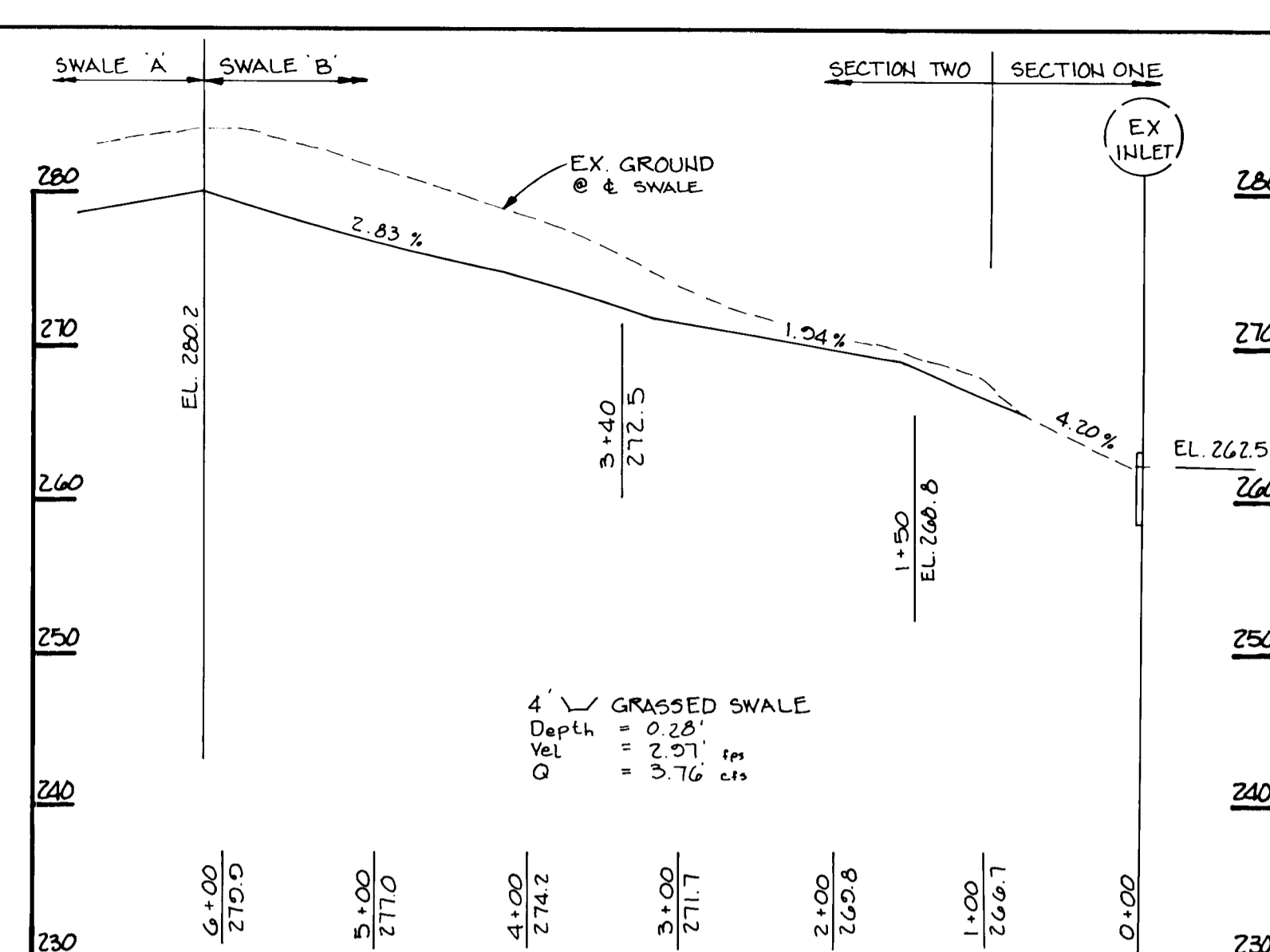
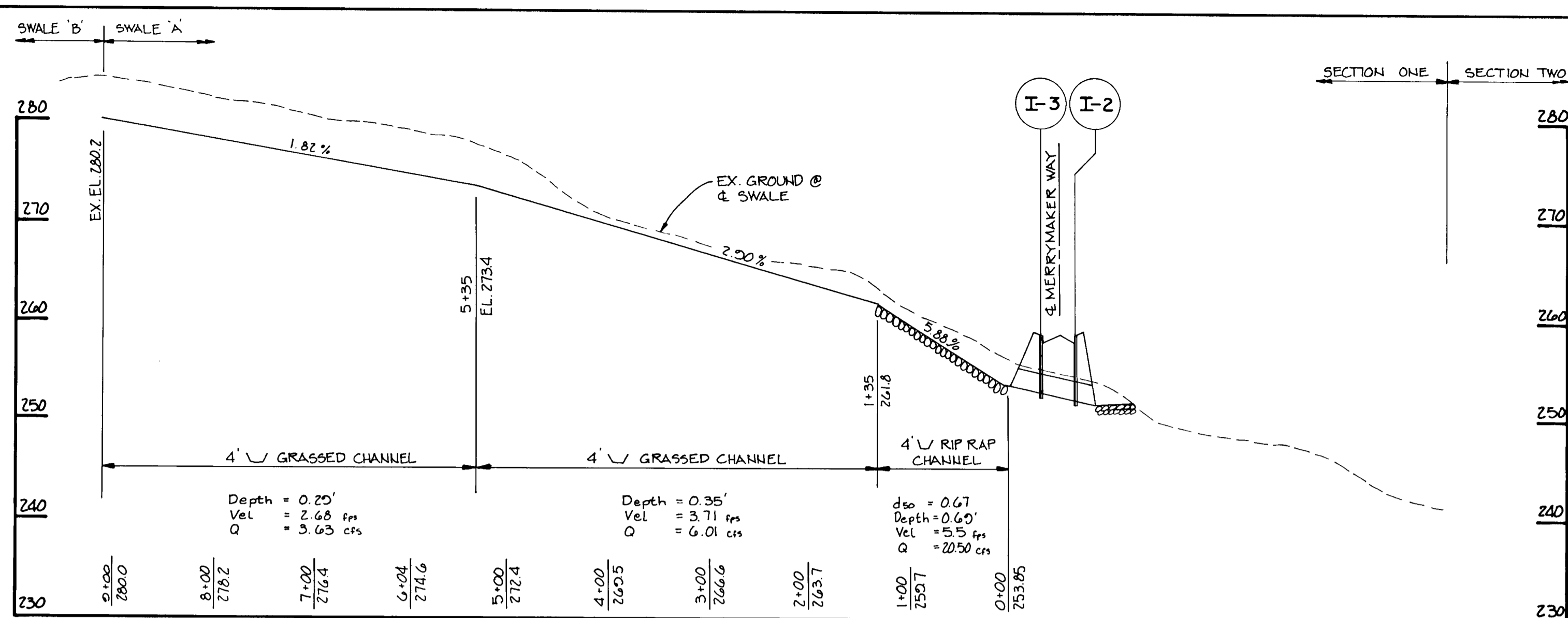
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING  
*Stanna Thomas*  
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT 8/28/92  
DATE

NO.	DATE	REVISION

T S A GROUP INC.  
planning • architecture • engineering  
#400 Baltimore National Pike • Ellicott City, Maryland 21043 • (410) 465-4244

OWNER	PROJECT
SECURITY DEVELOPMENT CORP. P.O. BOX 417 ELLICOTT CITY, MARYLAND 21043 (410) 465-4244	<b>NOTTINGHAM VILLAGE</b> SECTION 2 LOTS 113 THRU 174
DEVELOPER	LOCATION
SECURITY DEVELOPMENT CORP. P.O. BOX 417 ELLICOTT CITY, MARYLAND 21043 (410) 465-4244	TAX MAP NO. 37 ZONING MAP NO. 37 1ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND
TITLE	DATE
EROSION AND SEDIMENT CONTROL AND ROADWAY NOTES AND DETAILS	JULY 2, 1992
DES. DAM	DRN. JWG
SCALE:	PROJECT NO.
AS SHOWN	0342
SCALE:	DRAWING NO.
AS SHOWN	4 OF 8

1647



**STRUCTURE SCHEDULE**

NO	TYPE	LOCATION	INV. IN	INV. OUT	T.C. ELEV	REMARKS
I-1	A-5 INLET	LP STA. 17+12.04 WOODLAND FOREST DRIVE	—	249.3	273.64	HO CO STD SD 4.40
I-2	A-5 INLET	15' LT & STA. 3+86.52 MERRYMAKER WAY	252.33	252.13	258.8	HO CO STD SD 4.40
I-3	A-5 INLET	15' RT & STA. 3+86.52 MERRYMAKER WAY	253.21	253.01	258.8	HO CO STD SD 4.40
E-1	END SECTION	33' LT & STA. 3+86.52 MERRYMAKER WAY	—	251.70	—	HO CO STD SD 5.61
E-2	END SECTION	40' RT & STA. 3+70 MERRYMAKER WAY	253.85	—	—	HO CO STD SD 5.61
E-3	END SECTION	28' LT LP STA. 17+02 WOODLAND FOREST DRIVE	—	249.0	—	HO CO STD SD 5.61

**DRAINAGE AREA SCHEDULE**

INLET NO.	ACREAGE	C-FACTOR	% IMPERVIOUS	ZONING
I-1	1.0	0.55	43	R-SC & R-MH
I-2	0.5	0.50	42	R-MH
I-3	1.8	0.56	51	R-MH
EX-12	0.87	0.40	60	R-MH
EX-13	1.89	0.52	46	R-MH
EX-15	1.04	0.54	48	R-MH
EX-2	1.11	0.32	24	R-SC & R-MH
EX-E-7	27.84	0.25	0	R-SC & R-MH
EX-1-24	1.00	0.51	44	R-MH

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
 CHIEF, LAND DEVELOPMENT DIVISION  
 CHIEF, BUREAU OF HIGHWAYS  
 CHIEF, BUREAU OF ENGINEERING

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING  
 CHIEF DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

**T S A GROUP INC.**  
 planning • architecture • engineering  
 8400 Baltimore National Pike • Ellicott City, Maryland 21043 • (801)465-8105

**NOTTINGHAM VILLAGE SECTION 2**

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

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

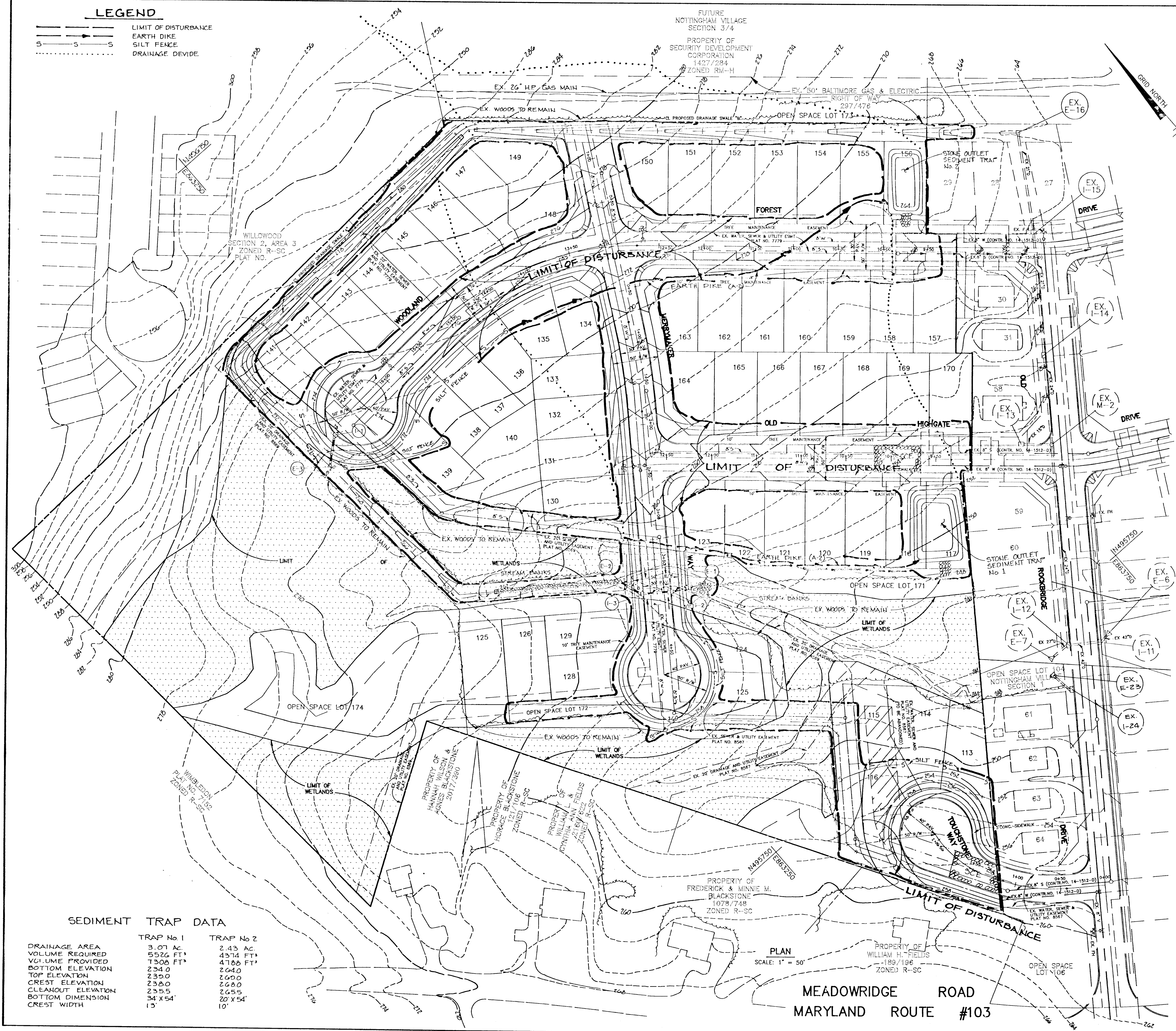
DES. DAM DRN. C.A.B.

DATE: JULY 2, 1992  
 PROJECT NO. 0342  
 SCALE: AS SHOWN  
 DRAWING 5 OF 8

1647

**LEGEND**

- LIMIT OF DISTURBANCE
- EARTH DIKE
- S — S — S SILT FENCE
- DRAINAGE DEVIDE



**SEQUENCE OF CONSTRUCTION**

- DAY 1 OBTAIN A GRADING PERMIT.
- DAY 2-5 INSTALL STABILIZED CONSTRUCTION ENTRANCES, SEDIMENT TRAPS AND EARTH DIKES.
- DAY 6-10 GRADE DRAINAGE SWALE AND STABILIZE IN ACCORDANCE WITH PERMANENT SEEDBED NOTES.
- DAY 11-21 GRADE SITE TO SUBGRADE AND STABILIZE IN ACCORDANCE WITH TEMPORARY SEEDBED NOTES.
- DAY 22-42 INSTALL STORM DRAINS, WATER, SEWER AND UTILITIES.
- DAY 43-63 CONSTRUCT CURB AND GUTTER, SIDEWALKS AND PAVING.
- DAY 64-66 STABILIZE ALL REMAINING DISTURBED AREAS IN ACCORDANCE WITH PERMANENT SEEDBED NOTES.
- DAY 67-75 UPON THE APPROVAL OF THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR, REMOVE ALL REMAINING SEDIMENT CONTROL DEVICES AND STABILIZE DISTURBED AREAS IN ACCORDANCE WITH PERMANENT SEEDBED NOTES.

NOTE: STORMWATER MANAGEMENT FOR THIS SITE IS PROVIDED UNDER NOTTINGHAM VILLAGE SECTION 1 50P-86-234.

BY THE DEVELOPER:  
 I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A MARYLAND 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.

*James R. Moxley, Jr.*  
 DEVELOPER: JAMES R. MOXLEY, JR.  
 SECURITY DEVELOPMENT CORPORATION / PRESIDENT  
 DATE: 7/29/92

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

*John M. Elorriaga*  
 ENGINEER: JOHN M. ELORRIAGA, P.E. # 16891  
 DATE: 7/2/92

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

*James M. Helms, JWC*  
 SOIL CONSERVATION SERVICE  
 DATE: 7/29/92

THESE PLANS FOR EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

*John R. Roberts*  
 HOWARD S.C.D.  
 DATE: 7/29/92

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

*Chad Dammann*  
 CHIEF, LAND DEVELOPMENT DIVISION  
 DATE: 8/10/92  
*Alan M. Tompkins*  
 CHIEF, BUREAU OF HIGHWAYS  
 DATE: 7/29/92  
*William S. Edley*  
 CHIEF, BUREAU OF ENGINEERING  
 DATE: 8-24-92

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

*Shirley Holmash*  
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT  
 DATE: 8/25/92

NO.	DATE	REVISION

**T S A GROUP INC.**  
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 8690 Baltimore National Pike • Elliott City, Maryland 21043 • (410) 465-6108

OWNER SECURITY DEVELOPMENT CORP. P.O. BOX 417 ELLCOTT CITY, MARYLAND 21043 (410) 465-6105	PROJECT <b>NOTTINGHAM VILLAGE</b> SECTION 2 LOTS 113 THRU 174
DEVELOPER SECURITY DEVELOPMENT CORP. P.O. BOX 417 ELLCOTT CITY, MARYLAND 21043 (410) 465-6105	LOCATION TAX MAP NO. 37 ZONING MAP NO. 37 1st ELECTION DISTRICT HOWARD COUNTY, MARYLAND
TITLE GRADING AND SEDIMENT AND EROSION CONTROL PLAN	DATE: JULY 2, 1992
DES. DAM	DRN. CAB
SCALE: 1" = 50'	DRAWING 6 OF 8

**SEDIMENT TRAP DATA**

	TRAP No 1	TRAP No 2
DRAINAGE AREA	3.07 AC.	2.43 AC.
VOLUME REQUIRED	5526 FT <sup>3</sup>	4374 FT <sup>3</sup>
VOLUME PROVIDED	7308 FT <sup>3</sup>	4708 FT <sup>3</sup>
BOTTOM ELEVATION	234.0	264.0
TOP ELEVATION	235.0	269.0
CREST ELEVATION	238.0	268.0
CLEANOUT ELEVATION	235.5	265.5
BOTTOM DIMENSION	34' X 54'	20' X 54'
CREST WIDTH	15'	10'

PLAN  
SCALE: 1" = 50'

MEADOWRIDGE ROAD  
MARYLAND ROUTE #103

1647

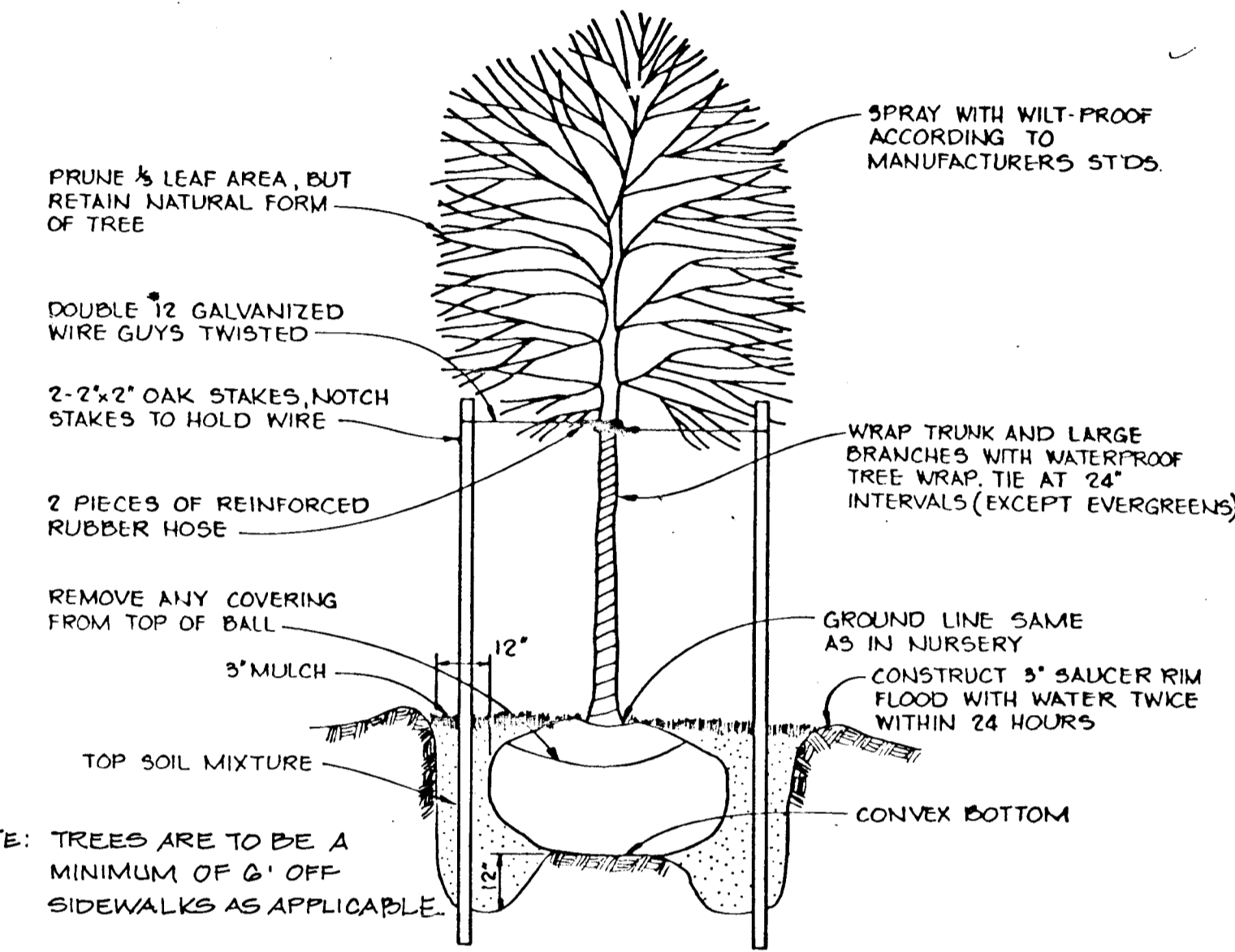
1697



NOTE: THIS PLAN IS FOR CONCEPTUAL LOT GRADING ONLY. THIS PLAN IS NOT INTENDED FOR CONSTRUCTION. ALL LOT CONSTRUCTION MUST BE DONE IN ACCORDANCE WITH A SITE DEVELOPMENT PLAN, WHICH WILL BE APPROVED BY HOWARD COUNTY.

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS <i>John P. ...</i> CHIEF, LAND USE DIVISION <i>Alan M. ...</i> CHIEF, BUREAU OF HIGHWAYS <i>William E. ...</i> CHIEF, BUREAU OF ENGINEERING		8/20/92 DATE 7/23/92 DATE B-24-92 DATE
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING <i>Anna ...</i> CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT		8/25/92 DATE
NO.	DATE	REVISION
T S A GROUP INC. planning • architecture • engineering 6480 Baltimore National Pike • Ellicott City, Maryland 21043 • (410) 465-6100		
OWNER:	PROJECT: NOTTINGHAM VILLAGE	
SECURITY DEVELOPMENT CORP. P.O. BOX 417 ELlicOTT CITY, MARYLAND 21043 (410) 465-6105	SECTION 2 LOTS 113 THRU 174	
DEVELOPER:	LOCATION: TAX MAP NO. 37 ZONING MAP NO. 37 PARCEL NO. 615 1st ELECTION DISTRICT HOWARD COUNTY, MARYLAND	
SECURITY DEVELOPMENT CORP. P.O. BOX 417 ELlicOTT CITY, MARYLAND 21043 (410) 465-6105	TITLE: CONCEPTUAL LOT GRADING PLAN F-87-156, SDP-88-255, F-82-55, WF-92-110 DATE: JULY 21, 1992 PROJECT NO. 0342	
DES. DAM	DRN. CAB	SCALE: 1" = 50'
		DRAWING 7 OF 8

PLANT LIST			
SYMBOL	QUANTITY	NAME	REMARKS
	52	QUERCUS PALUSTRIS Pin Oak	2 1/2" MIN CAL. B & B FULL HEAD
	27	ACER RUBRUM Red Maple	2 1/2" MIN CAL. B & B FULL HEAD
	9	PINUS STROBUS Eastern White Pine	5'-6" H B 4 B UNSHEARED

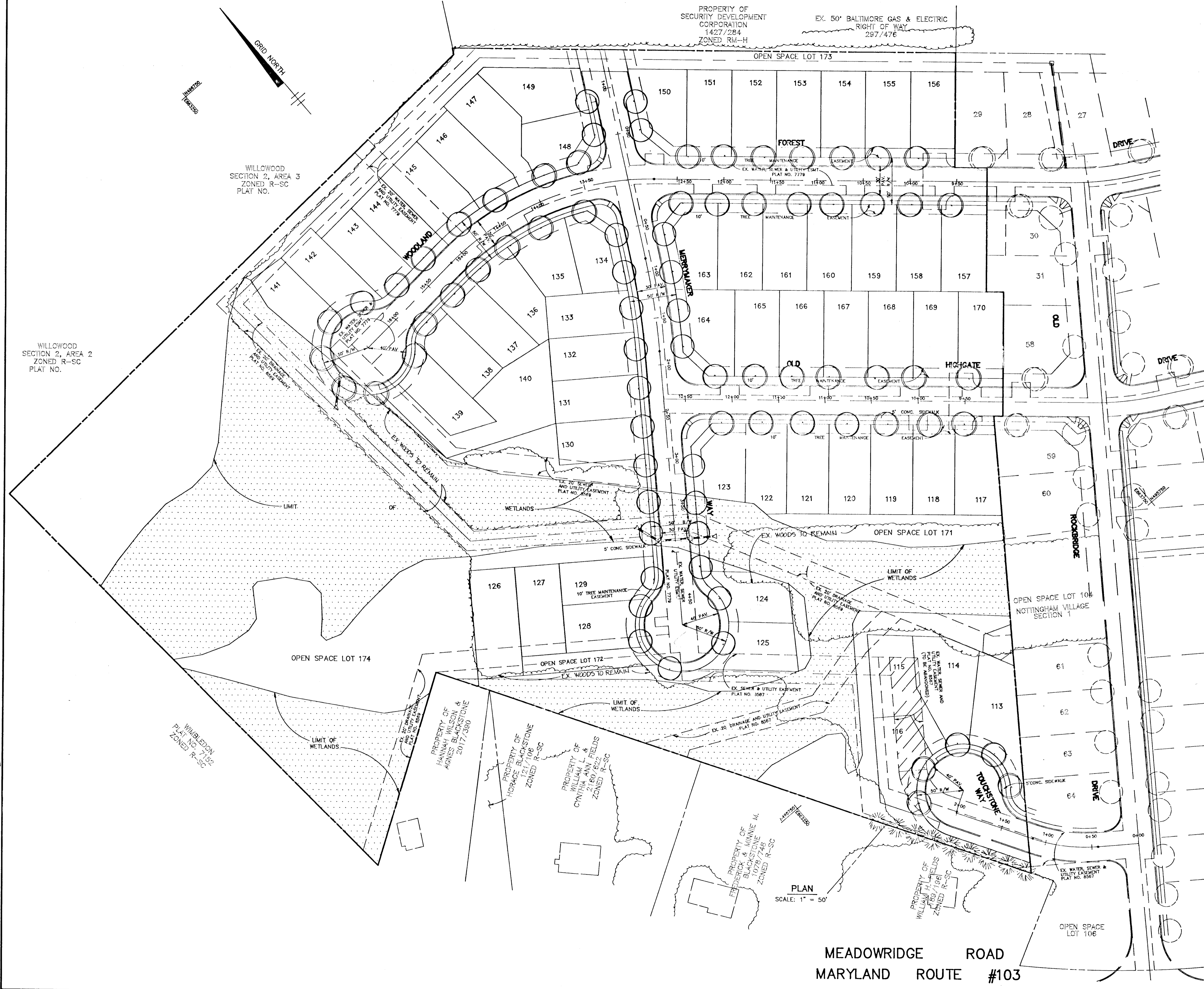


**TREE PLANTING DETAIL**  
NO SCALE

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS	
<i>[Signature]</i> CHIEF, LAND DEVELOPMENT DIVISION	8/20/92 DATE
<i>[Signature]</i> CHIEF, BUREAU OF HIGHWAYS	7/27/91 DATE
<i>[Signature]</i> CHIEF, BUREAU OF ENGINEERING	8-24-92 DATE
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING	
<i>[Signature]</i> CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT	8/20/92 DATE
NO.	REVISION

**T S A GROUP INC.**  
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2440 Baltimore National Pike • Elllicott City, Maryland 21043 • (410) 465-6106

OWNER SECURITY DEVELOPMENT CORP. P.O. BOX 417 ELLICOTT CITY, MARYLAND 21043 (410) 465-6105	PROJECT <b>NOTTINGHAM VILLAGE</b> SECTION 2 LOTS 113 THRU 174
DEVELOPER SECURITY DEVELOPMENT CORP. P.O. BOX 417 ELLICOTT CITY, MARYLAND 21043 (410) 465-6105	LOCATION TAX MAP NO. 37 ZONING MAP NO. 37 1st ELECTION DISTRICT HOWARD COUNTY, MARYLAND
DES. JH	DRN. CAB
TITLE PLANTING PLAN F-87-156, SDP-88-255, F-92-35, WP-92-110 DATE: JULY 2, 1992	PROJECT NO. 0342 SCALE: 1" = 50' DRAWING 8 OF 8



MEADOWRIDGE ROAD  
MARYLAND ROUTE #103

PLAN  
SCALE: 1" = 50'

1647