

SHEET INDEX	
NO.	DESCRIPTION
1	TITLE SHEET
2	PLAN OF MANORWOOD RD & WHISKEY BOTTOM RD
3	ROAD PROFILES
4	DRAINAGE AREA MAP AND STORM DRAINAGE PROFILES
5	GRADING AND SEDIMENT CONTROL PLAN
6	DETAILS
7	SEDIMENT CONTROL NOTES AND DETAILS
8	STREET TREE PLAN

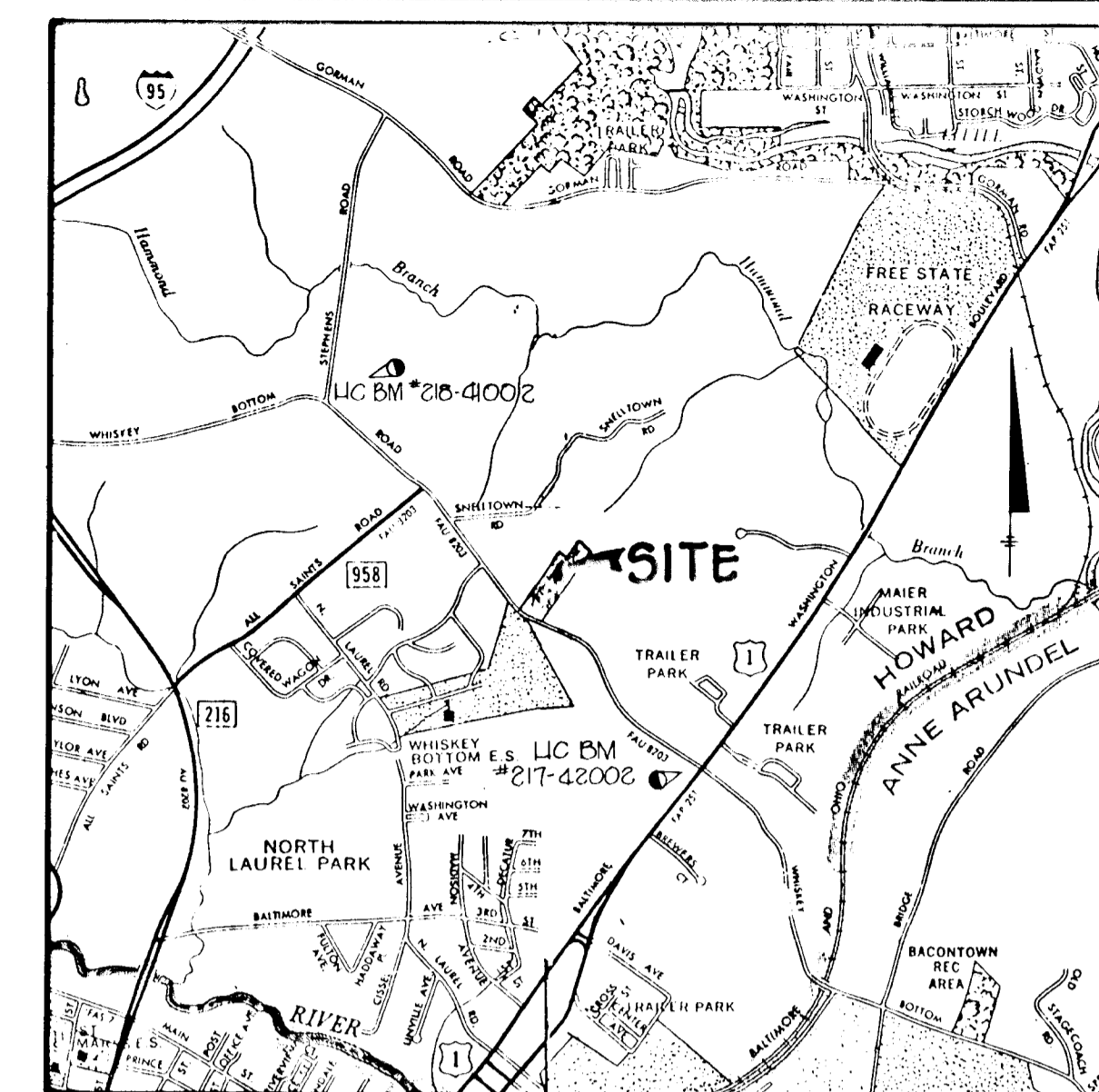
# ROADWAY AND STORM DRAINS

## CURRY PROPERTY

### SECTION 1, AREA 1

### 6TH ELECTION DISTRICT

## HOWARD COUNTY, MARYLAND

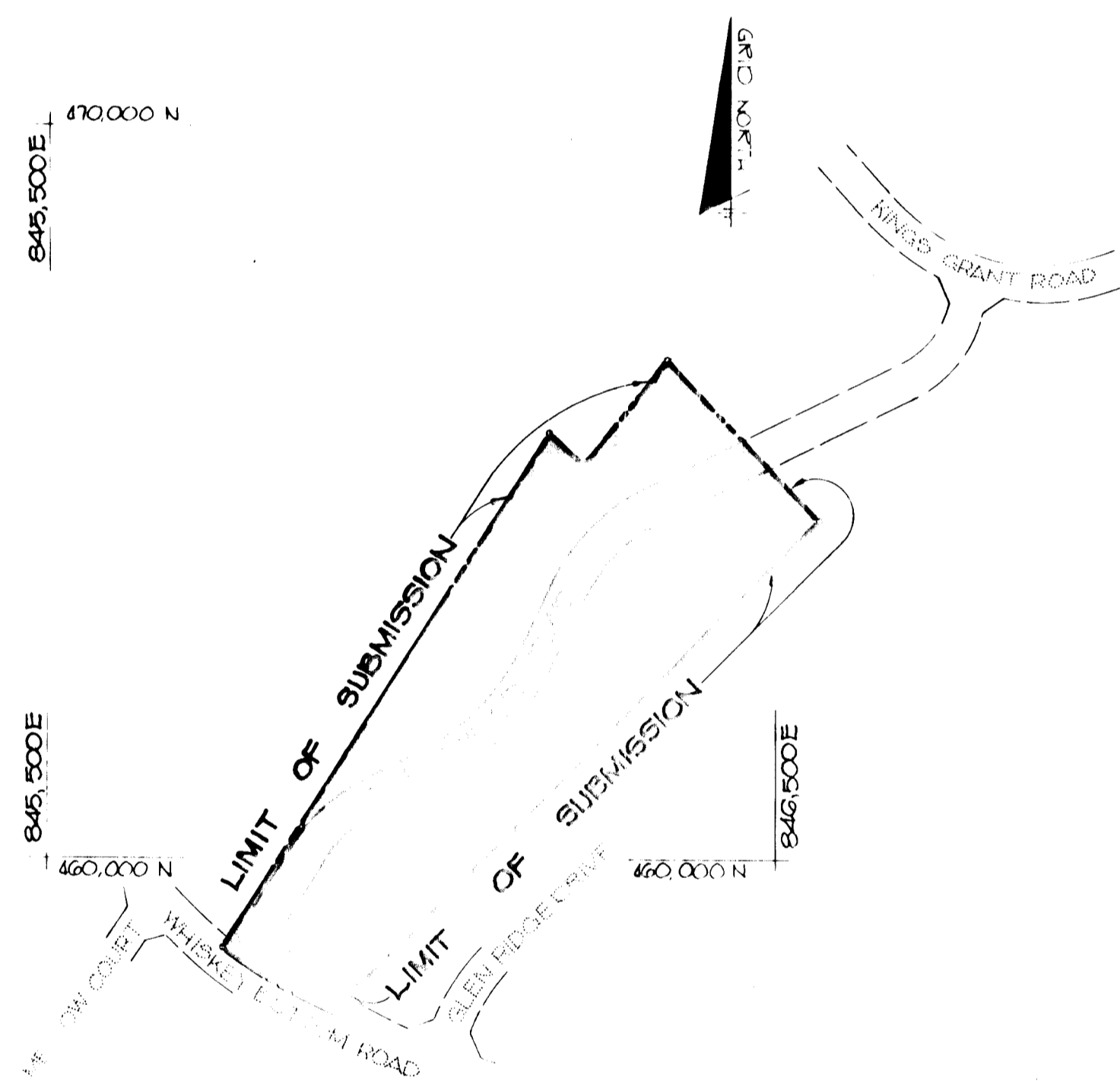


**VICINITY MAP**  
SCALE: 1" = 2000'

**GENERAL NOTES**

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, STANDARD SPECIFICATIONS AND DETAILS FOR ROAD CONSTRUCTION.
2. 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.
3. THE CONTRACTOR SHALL TEST PIT EXISTING UTILITIES, WHERE DIRECTED BY THE ENGINEER, A MINIMUM OF TWO WEEKS IN ADVANCE OF CONSTRUCTION OPERATIONS.
4. 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 COUNTY BUREAU OF UTILITIES	992-2366
HOWARD COUNTY CONSTRUCTION INSPECTION SURVEY DIVISION	992-2417/2418
5. ALL INLETS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOWARD COUNTY STANDARDS.
6. ALL STREET CURB RETURNS SHALL HAVE 20.0' RADIUS UNLESS OTHERWISE NOTED.
7. STORM DRAIN TRENCHES WITHIN ROAD RIGHT OF WAY SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH HOWARD COUNTY ROAD CODE.
8. INSTALLATION OF TRAFFIC CONTROL DEVICES, MARKING AND SIGNING SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES 1984 EDITION.
9. 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.
10. DESIGNED TRAFFIC SPEED IN ACCORDANCE WITH THE AMERICAN ASSOCIATION OF STATE HIGHWAY OFFICIAL STANDARDS:  
ALL MINOR ARTERIALS DESIGNED FOR 40 MPH, ALL LOCAL STREETS DESIGNED FOR 30 M.P.H.
11. ALL ELEVATIONS SHOWN ARE BASED ON U.S.C. AND G.S. MEAN SEA LEVEL DATUM 1929.
12. ALL FILL AREAS WITHIN ROADWAYS AND UNDER STRUCTURES TO BE COMPACTED TO A MINIMUM 95% OF MAXIMUM OBTAINABLE DENSITY DETERMINED BY MARSHALL PROCTOR.
13. ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
14. PROFILE STATIONS SHALL BE ADJUSTED AS NECESSARY TO CONFORM TO PLAN DIMENSIONS.
15. SUBJECT PROPERTY ZONED R-SC PER 8-2-85 COMPREHENSIVE ZONING PLAN.
16. STORM WATER MANAGEMENT PROVIDED UNDER F-89-707



**LOCATION PLAN**  
SCALE: 1" = 2000'

**BENCH MARK DESCRIPTIONS**

BM * 217-42002	ELEV 720207
CONCRETE MONUMENT NORTH EAST CORNER OF INTERSECTION OF US ROUTE 1 AND WHISKEY BOTTOM ROAD	
BM * 218-41002	ELEV 756979
CONCRETE MONUMENT 1' EAST OF CONCRETE CURB & 5' SOUTH OF CATCH BASIN, 6' BELOW SURFACE	

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

<i>Richard L. ...</i> CHIEF, LAND DEVELOPMENT DIVISION	3/14/89 DATE
<i>Travis W. ...</i> CHIEF, BUREAU OF HIGHWAYS	3/14/89 DATE
<i>... ..</i> CHIEF, BUREAU OF ENGINEERING	3-15-89 DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

*... ..*  
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT - DATE 3-21-89

NO.	DATE	REVISION

**TRACY, SCHULTE & ASSOCIATES INC.**  
planning • architecture • engineering

8480 Baltimore National Pike • Ellicott City, Maryland 21043 • (301) 465-6105

*Donald R. Tracy*

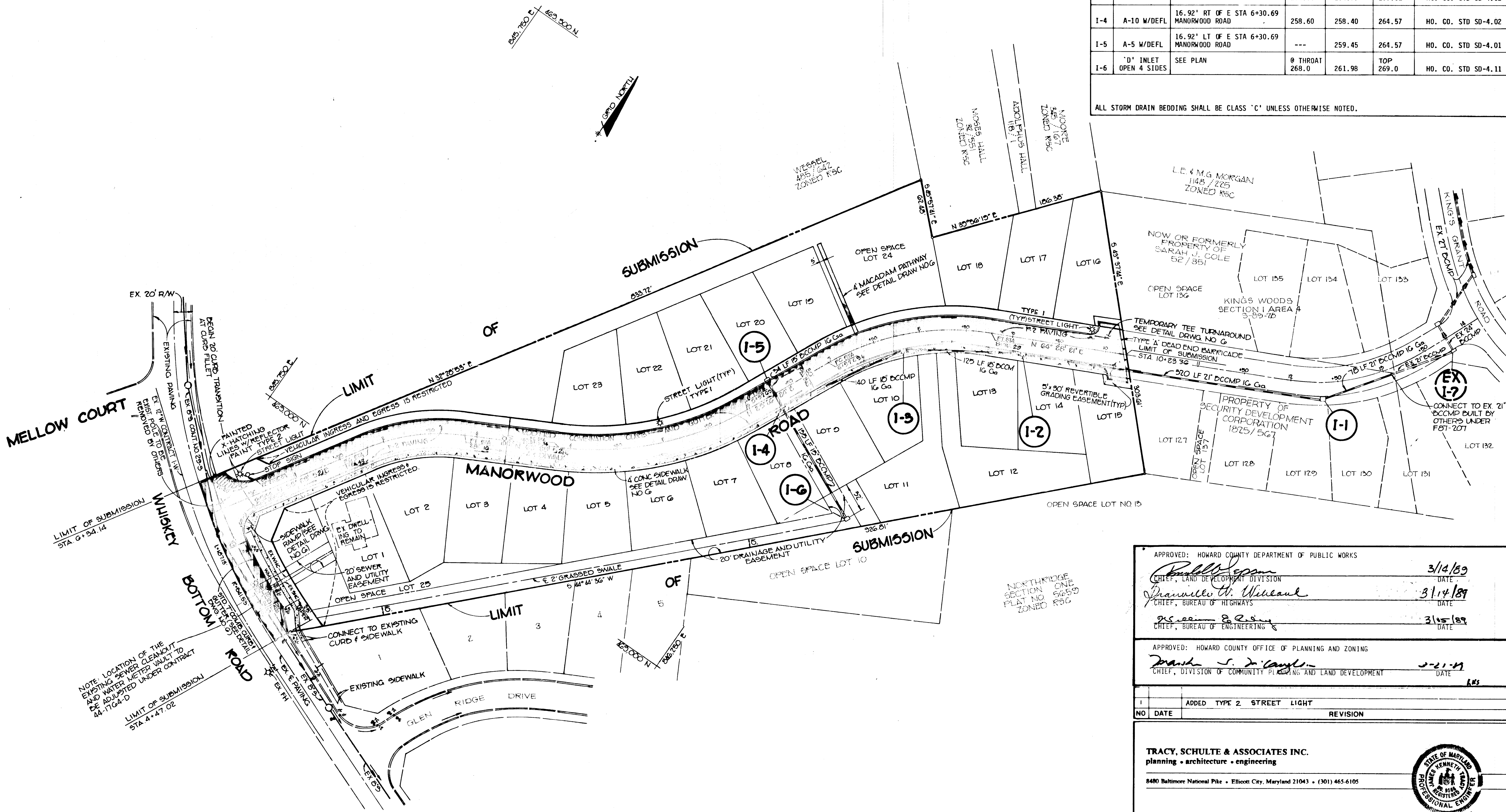
OWNER: SECURITY DEVELOPMENT CORP PO BOX 417 ELLCOTT CITY, MARYLAND 21043	PROJECT: <b>CURRY PROPERTY</b> SECTION 1, AREA 1 LOTS 1 & 25 021/304 LOCATION: TAX MAP NO 47 PARCEL NO 178 6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
DEVELOPER: SECURITY DEVELOPMENT CORP PO BOX 417 ELLCOTT CITY, MARYLAND 21043	TITLE: <b>TITLE SHEET</b> S-88-16 P-88-57 F-89-75 DATE: NOV 2, 1988 PROJECT NO 0073 MARCH 2, 1989
DES: RJW	DRN: EWM
SCALE: AS NOTED	DRAWING: 1 OF 8

1104

STRUCTURE SCHEDULE

NO.	TYPE	LOCATION	INV. IN	INV. OUT	TC ELEV.	REMARKS
I-1	A-10	16.92' RT OF E STA 12+38.00 MANORWOOD ROAD	248.12	247.92	253.67	HO. CO. STD SD-4.02
I-2	A-5	16.92' RT OF E STA 9+14.00 MANORWOOD ROAD	251.57	251.32	256.92	HO. CO. STD SD-4.02
I-3	A-5 W/DEFL	16.92' RT OF E STA 7+79.00 MANORWOOD ROAD	254.90	254.70	259.82	HO. CO. STD SD-4.02
I-4	A-10 W/DEFL	16.92' RT OF E STA 6+30.69 MANORWOOD ROAD	258.60	258.40	264.57	HO. CO. STD SD-4.02
I-5	A-5 W/DEFL	16.92' LT OF E STA 6+30.69 MANORWOOD ROAD	---	259.45	264.57	HO. CO. STD SD-4.01
I-6	'D' INLET OPEN 4 SIDES	SEE PLAN	Ø THREAT 268.0	261.98	TOP 269.0	HO. CO. STD SD-4.11

ALL STORM DRAIN BEDDING SHALL BE CLASS 'C' UNLESS OTHERWISE NOTED.



APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
*Paul W. Leppan* 3/14/89  
 CHIEF, LAND DEVELOPMENT DIVISION DATE  
*Drayville W. Wilkerson* 3/14/89  
 CHIEF, BUREAU OF HIGHWAYS DATE  
*James E. Reilly* 3/15/89  
 CHIEF, BUREAU OF ENGINEERING DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING  
*Frank J. Campbell* 3-21-89  
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

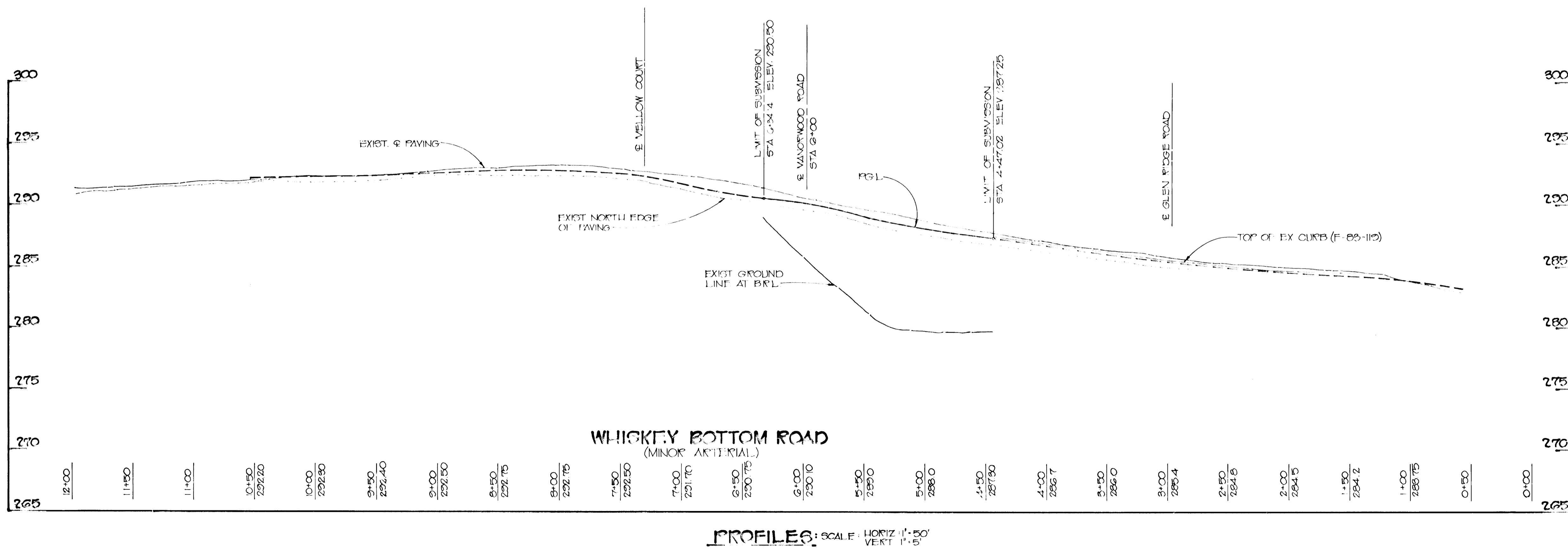
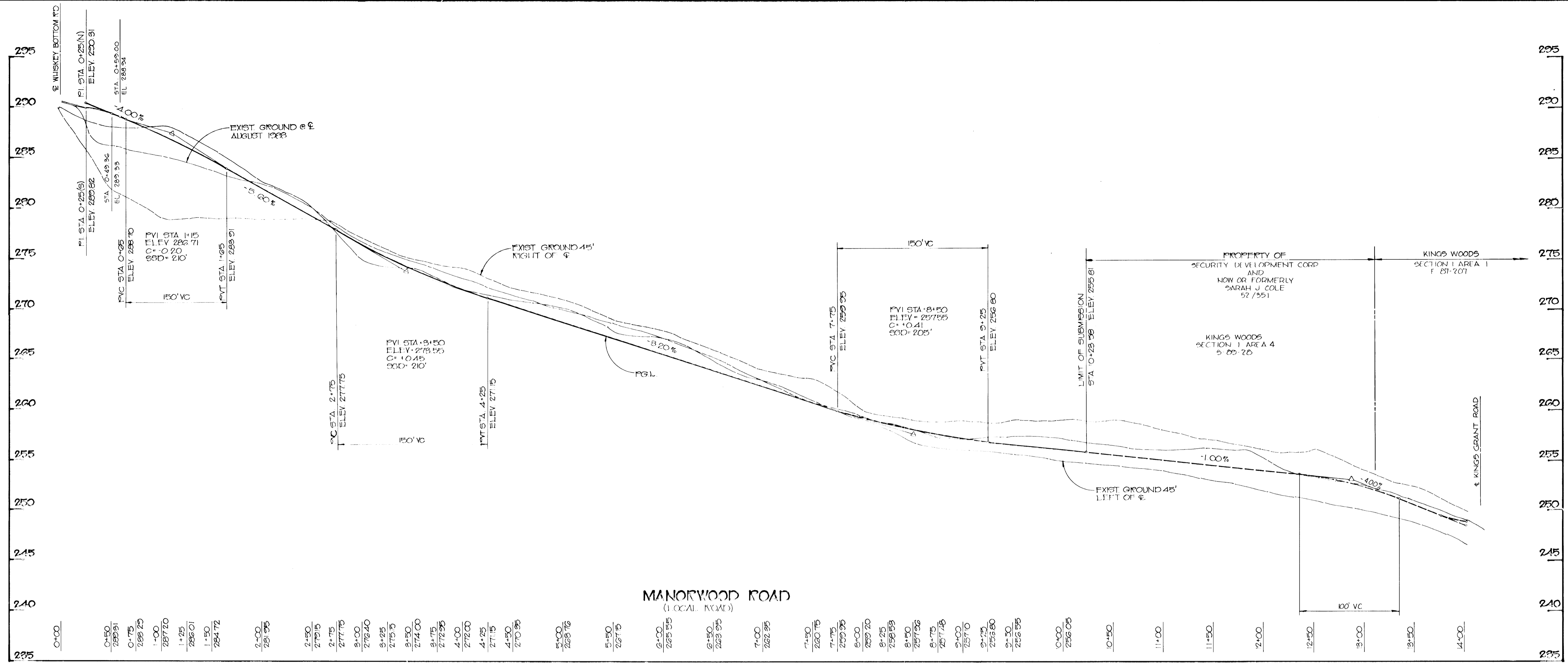
NO	DATE	ADDED TYPE 2 STREET LIGHT	REVISION
1			

**TRACY, SCHULTE & ASSOCIATES INC.**  
 planning • architecture • engineering  
 8480 Baltimore National Pike • Ellicott City, Maryland 21043 • (301) 465-6105

OWNER SECURITY DEVELOPMENT CORP. P.O. BOX 417 ELLCOTT CITY, MARYLAND 21043	PROJECT <b>CURRY PROPERTY</b> SECTION 1, AREA 1 821/304
DEVELOPER SECURITY DEVELOPMENT CORP. P.O. BOX 417 ELLCOTT CITY, MARYLAND 21043	LOCATION TAX MAP NO 47 PARCEL NO 178 6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
DATE NOV 2, 1988 MARCH 2, 1989	TITLE <b>PLAN OF WHISKEY BOTTOM ROAD AND MANORWOOD ROAD</b>
DES GJB	PROJECT NO 0073
DRN KMN/JCA	SCALE 1"=50'
	DRAWING 2 OF 6

<p>⊖ CURVE DATA MANORWOOD ROAD                  ⚡ STA. 1+81.43 TO ⚡ STA. 2+86.16                  ⚡ 30° 00' 00"                  R= 200.00'                  L= 104.72'                  T= 55.35'                  D= 28° 35' 52"                  CHD= N 47° 28' 52" E, 105.53'</p>	<p>⊖ CURVE DATA MANORWOOD ROAD                  ⚡ STA. 5+86.16 TO ⚡ STA. 5+97.03                  ⚡ 37° 02' 28"                  R= 327.20'                  L= 211.584'                  T= 109.61'                  D= 17° 30' 30"                  CHD= N 43° 57' 58" E, 207.87'</p>	<p>⊖ CURVE DATA MANORWOOD ROAD                  ⚡ STA. 6+97.03 TO ⚡ STA. 8+76.23                  ⚡ 99° 01' 56"                  R= 262.17'                  L= 178.60'                  T= 22.92'                  D= 21° 51' 18"                  CHD= N 44° 57' 23" E, 175.16'</p>	<p>⊖ CURVE DATA WHISKEY BOTTOM ROAD                  ⚡ STA. 4+47.02 TO ⚡ STA. 6+84.14                  ⚡ 10° 47' 55"                  R= 541.55'                  L= 187.15'                  T= 24.51'                  D= 10° 54' 45"                  CHD= N 60° 28' 50" W</p>
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1104



PROFILES: SCALE: HORIZ 1"=50' VERT 1"=5'

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS	
<i>[Signature]</i>	3/14/89 DATE
<i>[Signature]</i>	3/14/89 DATE
<i>[Signature]</i>	3/15/89 DATE
APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING	
<i>[Signature]</i>	3-21-89 DATE
NO. DATE REVISION	
<b>TRACY, SCHULTE &amp; ASSOCIATES INC.</b> planning • architecture • engineering 8480 Baltimore National Pike • Ellicott City, Maryland 21043 • (301) 465-6105	
OWNER: SECURITY DEVELOPMENT CORP PO BOX 417 ELLCOTT CITY, MARYLAND 21043	PROJECT: <b>CURRY PROPERTY</b> SECTION 1, AREA 1 821/304
DEVELOPER: SECURITY DEVELOPMENT CORP PO BOX 417 ELLCOTT CITY, MARYLAND 21043	LOCATION: TAX MAP NO 47 PARCEL NO 175 6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
TITLE: <b>ROAD PROFILES</b>	
DATE: NOV 2 1988 MARCH 2 1989	PROJECT NO: 0073
DES: SJB	DRN: EWM
SCALE: AS SHOWN	DRAWING: 3 OF 8

1104

MELLOW COURT

WHISKEY BOTTOM ROAD

WESSEL  
485/242  
ZONED R-5C

840,000E  
469,200N

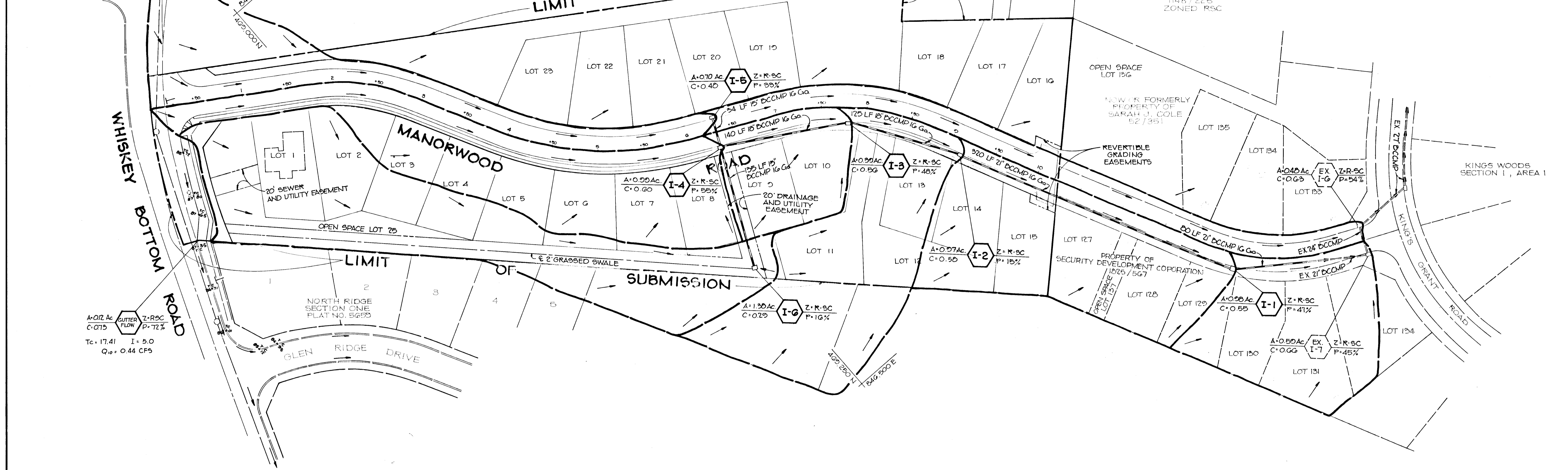
MOSES HALL  
327/158  
ZONED R-5C

420/115 HALL  
MIGRE  
342/167  
ZONED R-5C

L.E. M.G. MORGAN  
1148/225  
ZONED R-5C

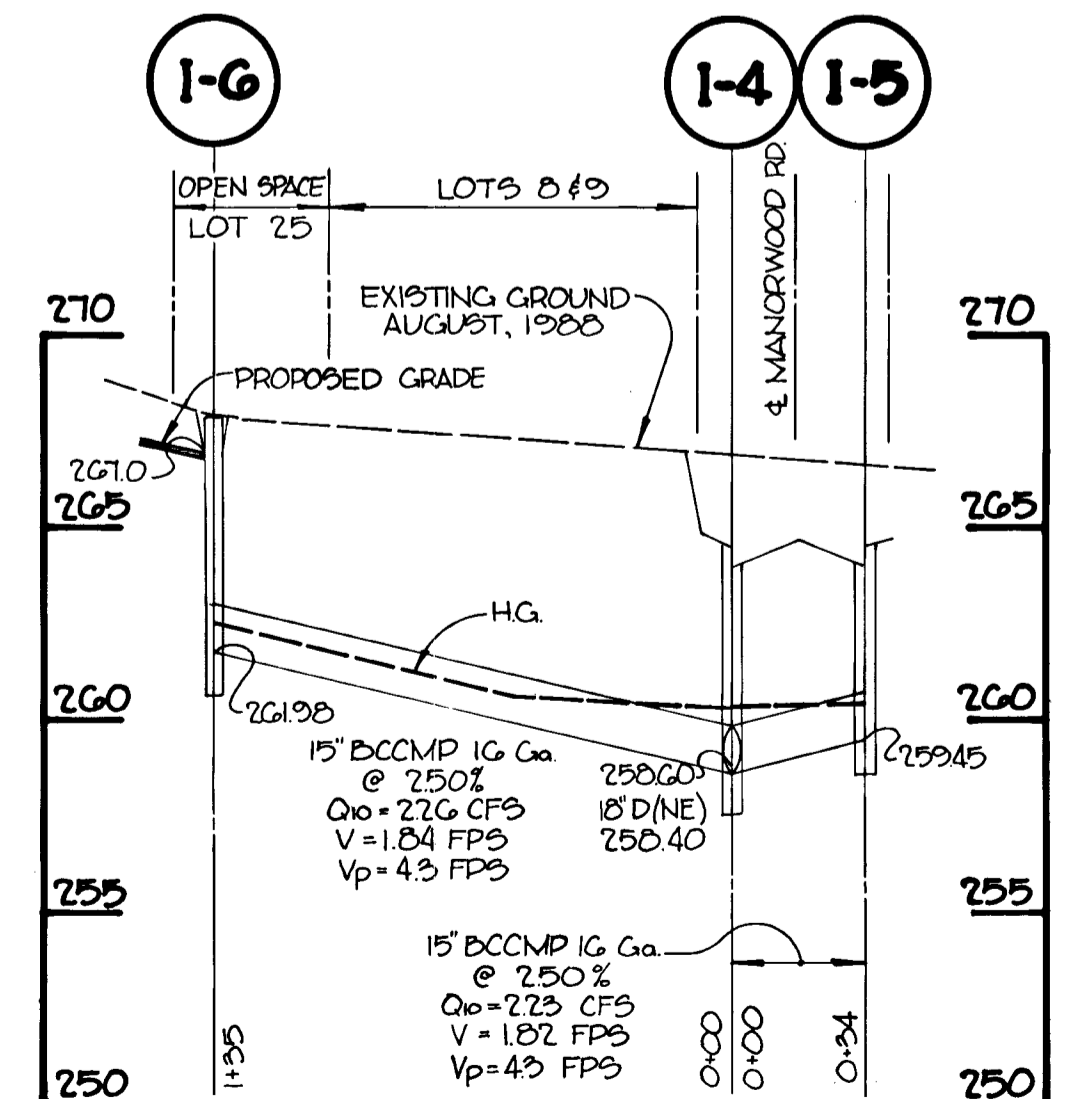
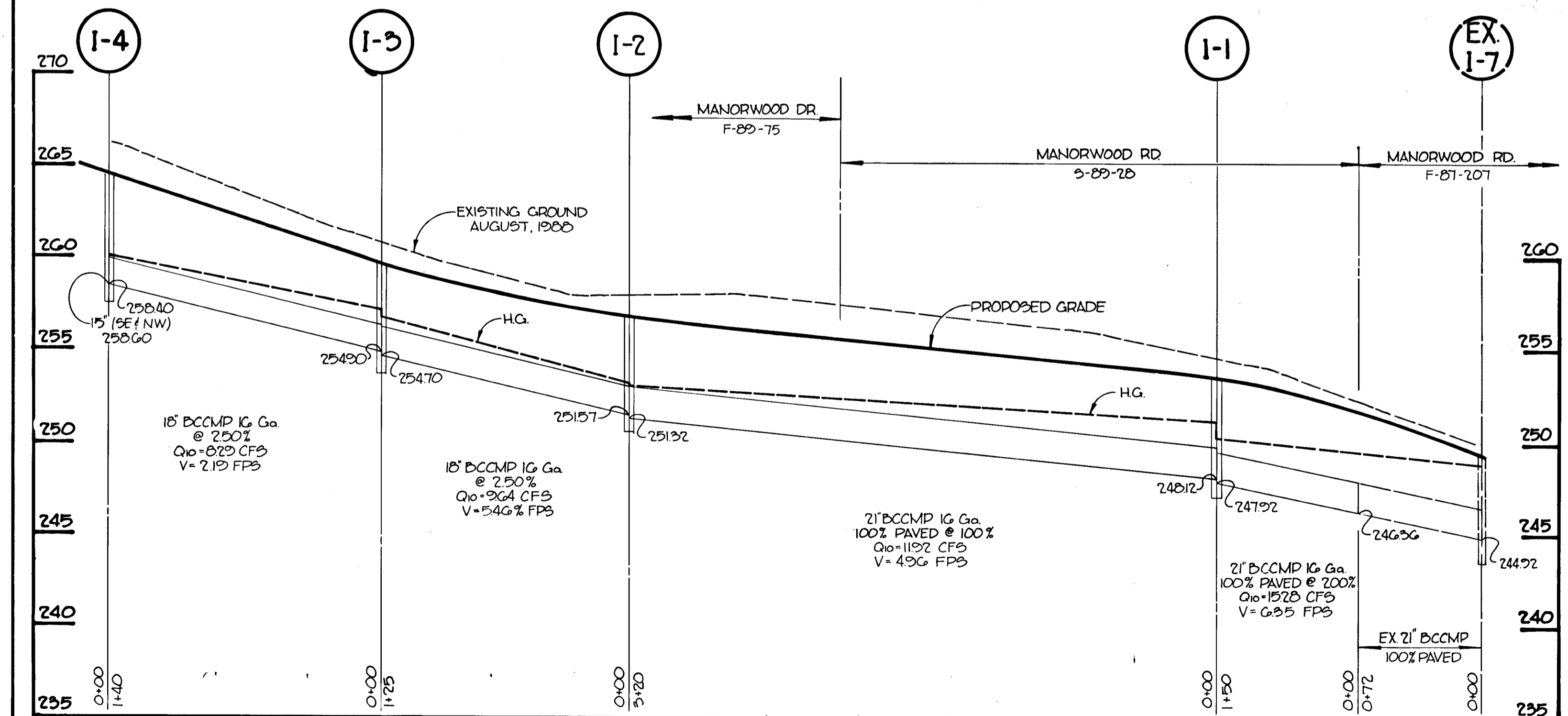
NEW OR FORMERLY  
PROPERTY OF  
SARAH J. COLE  
52/351

KINGS WOODS  
SECTION 1, AREA 1



A=0.012 Ac  
C=0.015  
Tc=17.41 I=5.0  
Q<sub>10</sub>=0.44 CFS

NORTH RIDGE  
SECTION ONE  
PLAT NO. 56250



**PROFILES**  
SCALE H-1"=50' V-1"=5'

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
*[Signature]* 3/14/89 DATE  
 CHIEF, LAND DEVELOPMENT DIVISION  
*[Signature]* 3/14/89 DATE  
 CHIEF, BUREAU OF HIGHWAYS  
*[Signature]* 3/15/89 DATE  
 CHIEF, BUREAU OF ENGINEERING  
 APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING  
*[Signature]* 3-21-89 DATE  
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

NO	DATE	REVISION

**TRACY, SCHULTE & ASSOCIATES INC.**  
 planning • architecture • engineering  
 8480 Baltimore National Pike • Ellicott City, Maryland 21043 • (301) 465-6105  
*[Signature]*

OWNER: SECURITY DEVELOPMENT CORP.  
 P.O. BOX 417  
 ELLICOTT CITY, MARYLAND 21043

PROJECT: **CURRY PROPERTY**  
 SECTION 1, AREA 1 821/304

LOCATION: TAX MAP NO. 47 PARCEL NO. 178  
 6<sup>th</sup> ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND

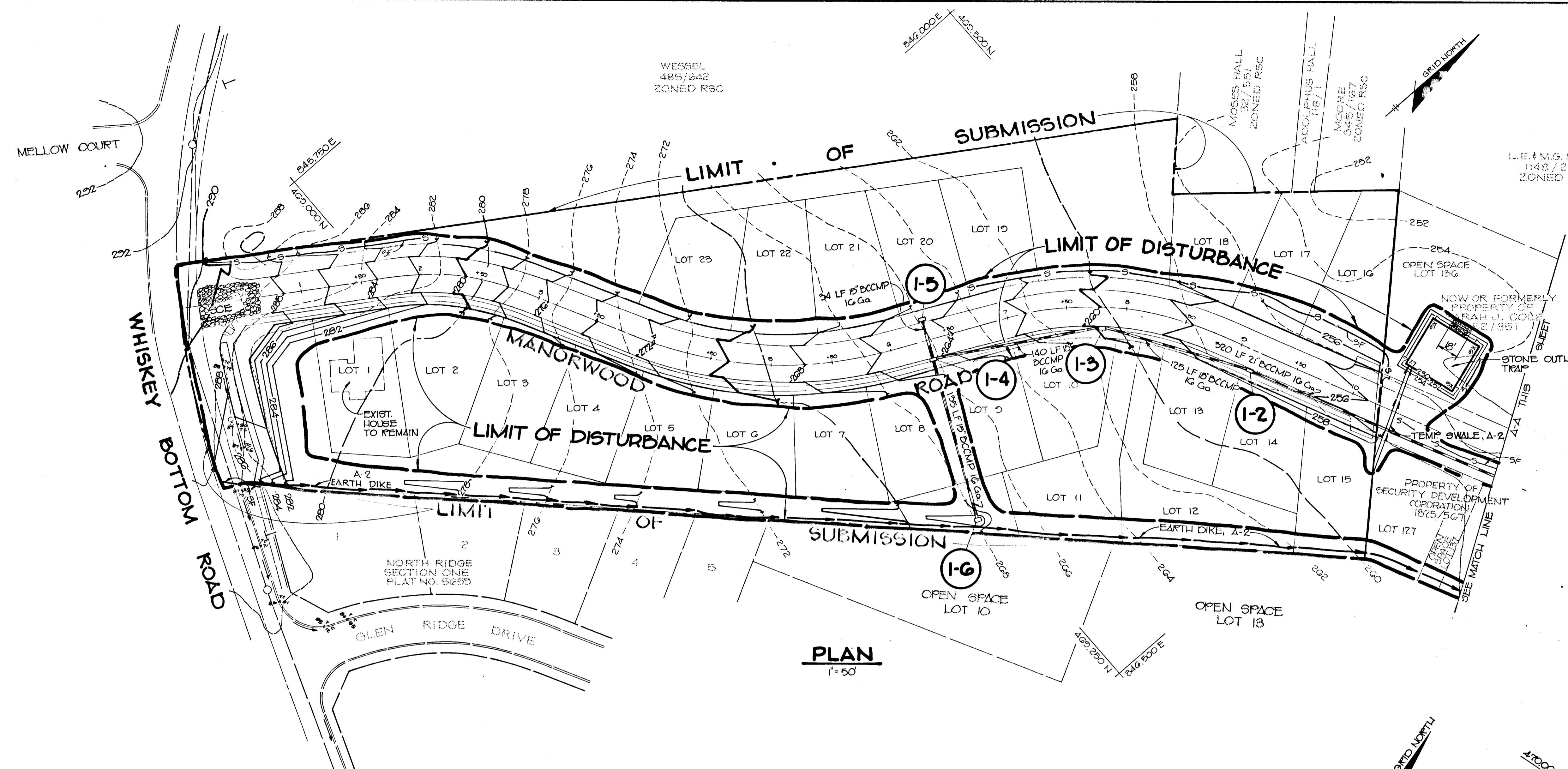
DEVELOPER: SECURITY DEVELOPMENT CORP.  
 P.O. BOX 417  
 ELLICOTT CITY, MARYLAND 21043

TITLE: **DRAINAGE AREA MAP AND STORM DRAIN PROFILES**

DATE: NOV 2, 1988 PROJECT NO 0073  
 MARCH 2, 1989

DES: RJW DRN: JLR SCALE: 1"=50' DRAWING: 4 OF 8

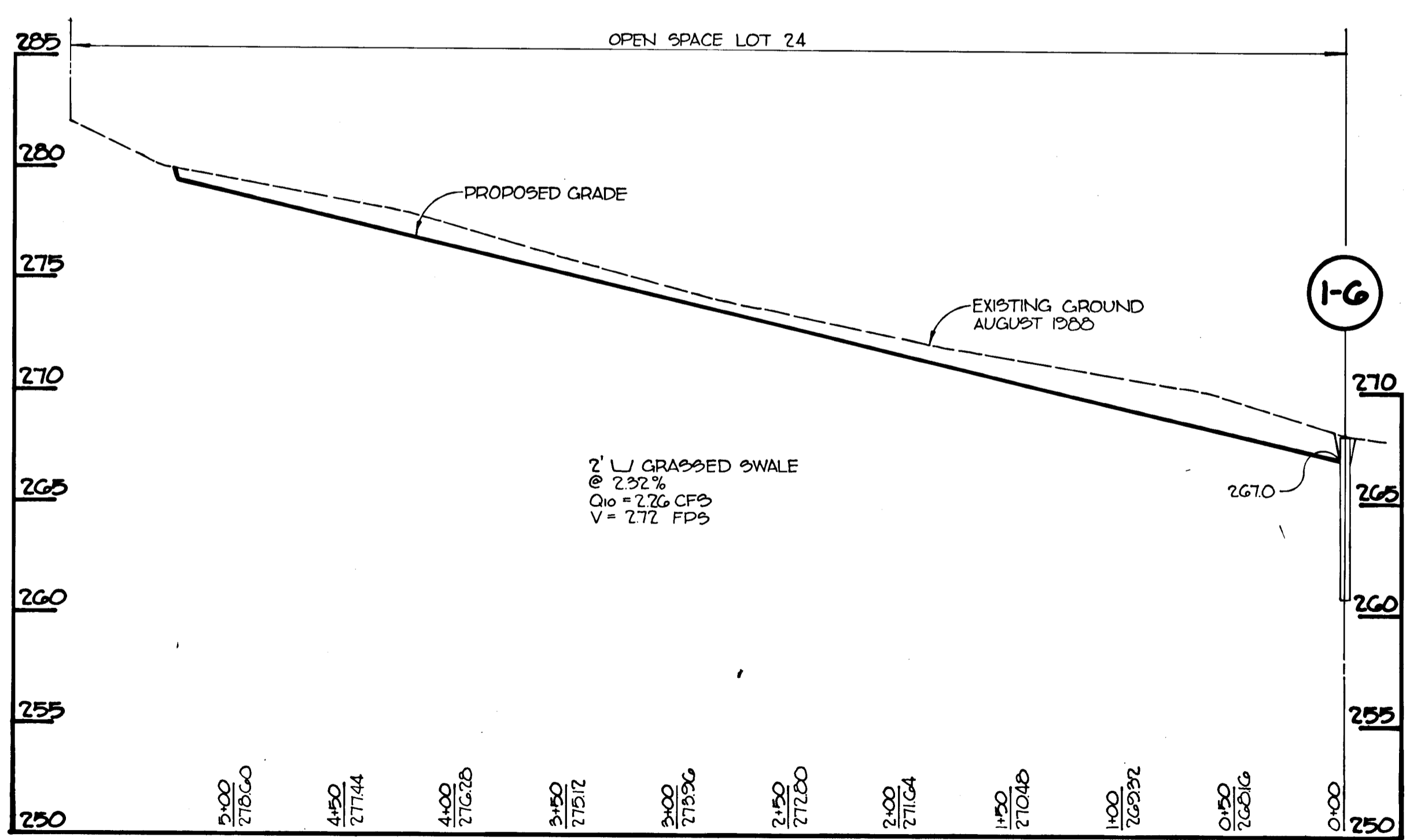
1104



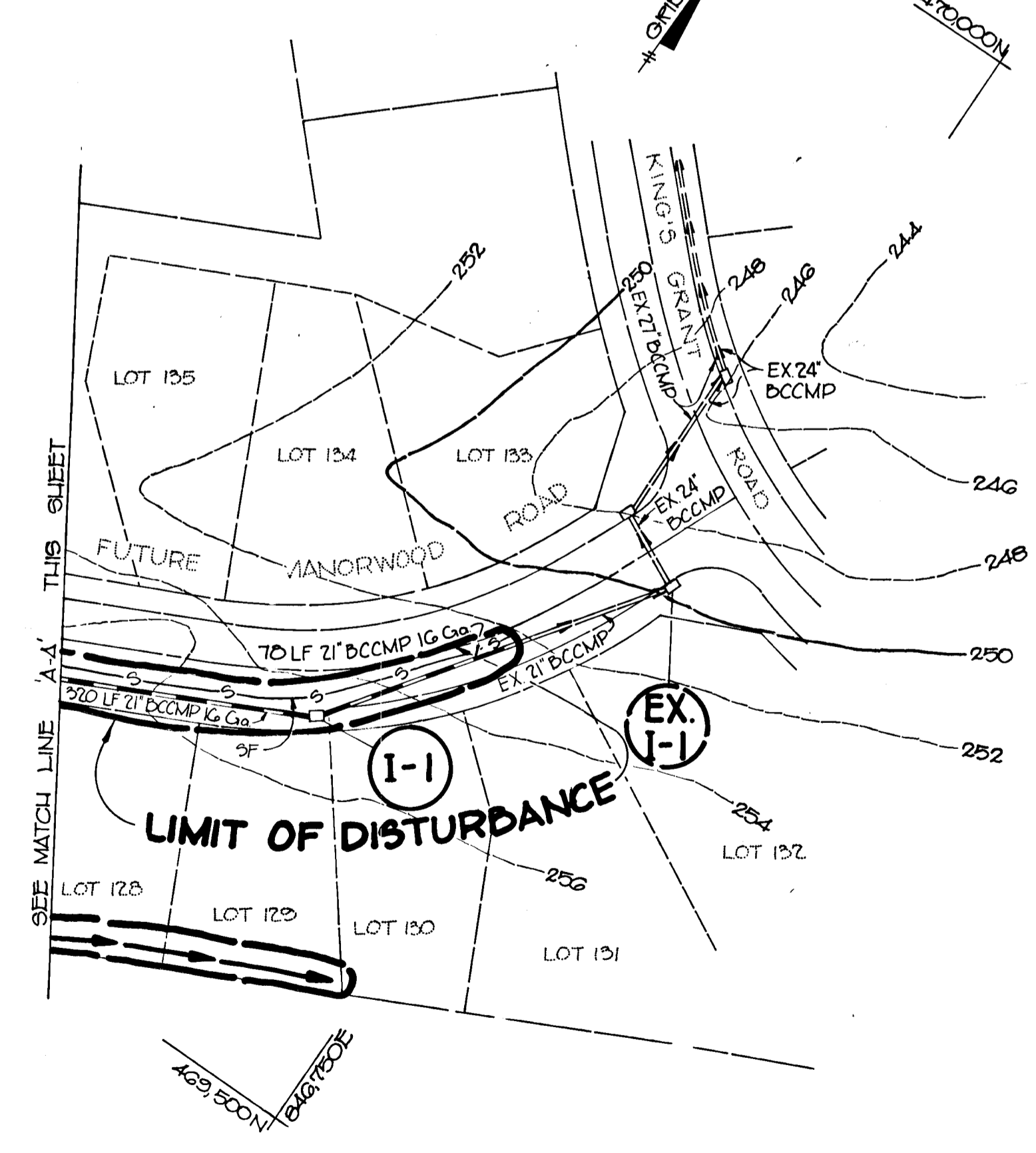
**PLAN**  
1"=50'

**SEDIMENT TRAP DATA**

DRAINAGE AREA	428 Ac
DISTURBED AREA	106 Ac
STORAGE PROV'D	7744 cf
STORAGE PROV'D	7744 cf
CREST ELEV.	254.70
CLEANOUT ELEV.	251.70
BOTTOM ELEV.	249.70
BOTTOM DIMENSIONS	44' x 44'



**PROFILE OF GRASSED SWALE TO I-6**  
SCALE: H-1"=50', V-1"=5'



**PLAN**  
1"=50'

BY THE DEVELOPER:  
 "I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES 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. 10-31-89  
 DEVELOPER: JAMES R. MOXLEY, JR., PRESIDENT  
 SECURITY DEVELOPMENT CORPORATION

BY THE ENGINEER:  
 "I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."  
 James K. Tracy 10-31-88  
 ENGINEER: JAMES K. TRACY, P.E.

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS  
 James M. Helm 3-3-87  
 SOIL CONSERVATION SERVICE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT  
 Stephen L. Helm 3-3-87  
 HOWARD S.C.D.

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
 Stephen W. Weiland 3/14/89  
 CHIEF, LAND DEVELOPMENT DIVISION

Stephen W. Weiland 3/14/89  
 CHIEF, BUREAU OF HIGHWAYS

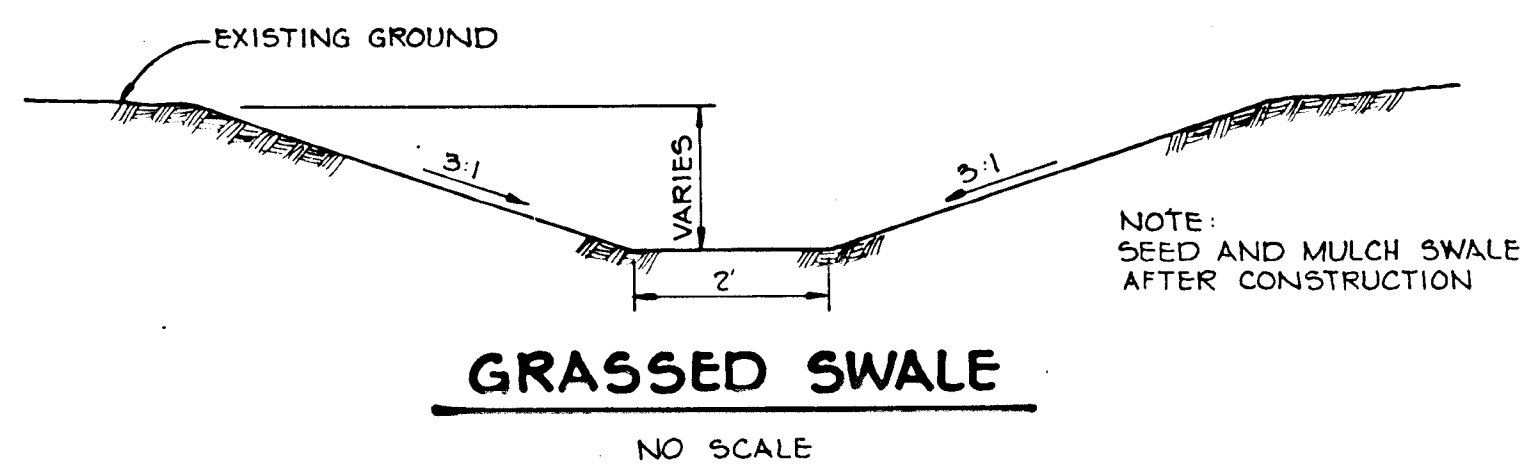
APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING  
 Frank S. Campbell 3-21-89  
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

NO.	DATE	REVISION

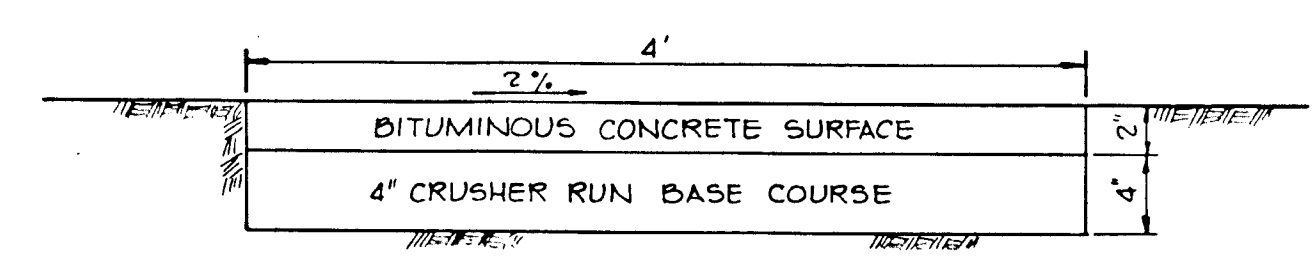
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 8480 Baltimore National Pike • Ellicott City, Maryland 21043 • (301) 465-6105

OWNER SECURITY DEVELOPMENT CORP. PO BOX 417 ELLCOTT CITY, MARYLAND 21043	PROJECT <b>CURRY PROPERTY</b> SECTION 1, AREA 1 821/904
DEVELOPER SECURITY DEVELOPMENT CORP. PO BOX 417 ELLCOTT CITY, MARYLAND 21043	LOCATION TAX MAP NO 47 PARCEL NO 178 6th ELECTION DISTRICT HOWARD COUNTY, MARYLAND
TITLE <b>GRADING AND SEDIMENT CONTROL PLAN</b>	DATE NOV 2, 1988 1/2 RCH 2, 1989
DES: RJW	DRN: JLR
SCALE: 1"=50'	PROJECT NO: 0073 DRAWING: 5 OF 8

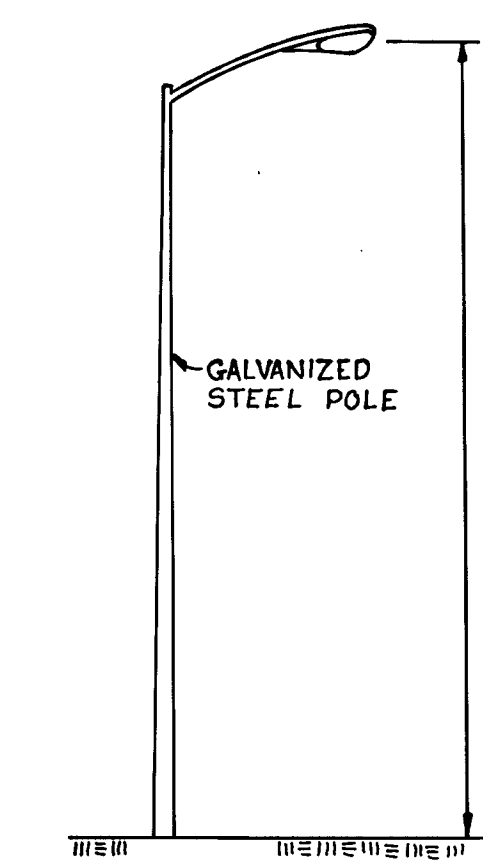
1104



**GRASSED SWALE**  
NO SCALE

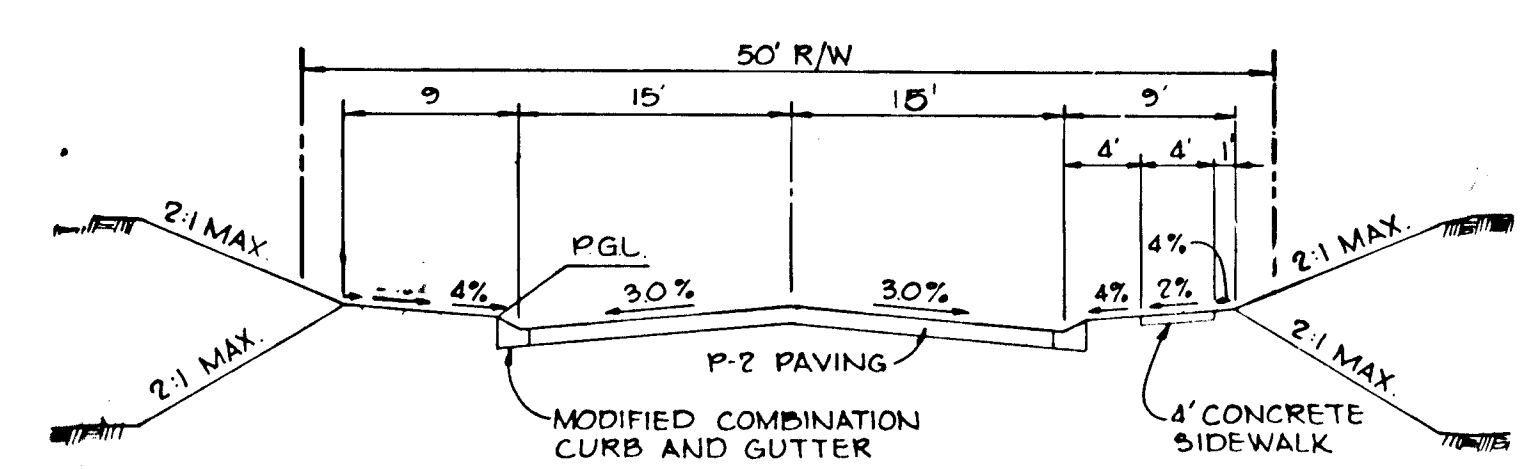


**MACADAM PATHWAY DETAIL**  
NO SCALE



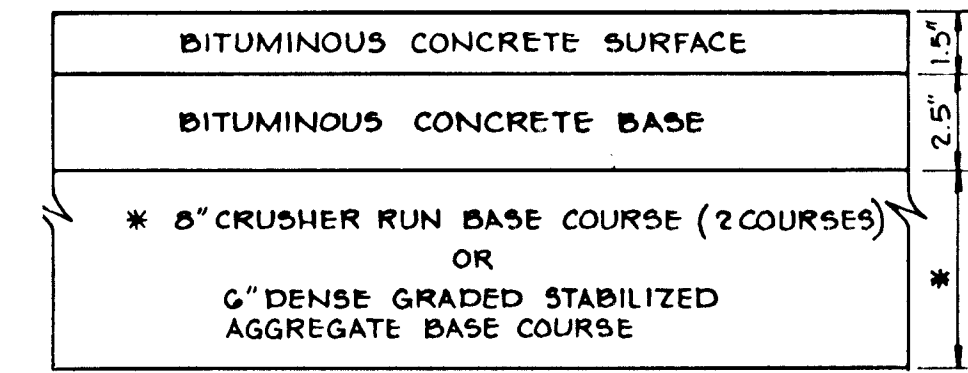
**PENDANT LIGHTING FIXTURE**  
NO SCALE

**TYPE 2**  
NOTE: ALL STREET POLES ON ROADWAYS CLASSIFIED AS ARTERIALS SHALL EXHIBIT BREAK-AWAY CHARACTERISTICS BY UTILIZING CAST ALUMINUM TRANSFORMER BASE OR EQUIVALENT. ALL FIXTURES ARE TO BE STANDARD BALTIMORE GAS AND ELECTRIC HARDWARE (150 WATT H.P. SODIUM VAPOR TYPE) AND MOUNTED ON STANDARD BALTIMORE GAS AND ELECTRIC BASE. THESE POLES ARE SHOWN ON THE PLAN AS \*

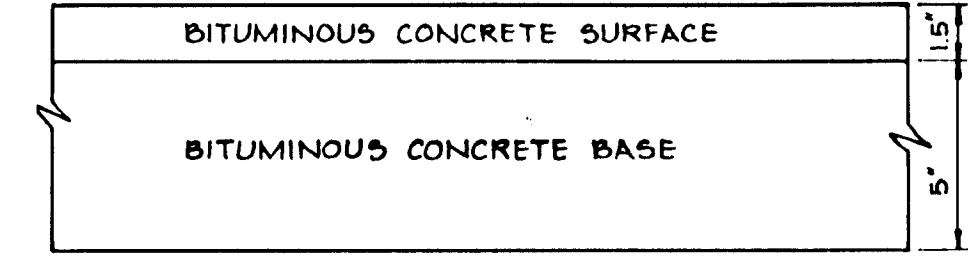


**TYPICAL SECTION**  
NO SCALE

STA 0+49.36 TO 10+23.36  
CLASSIFICATION - LOCAL STREET  
ZONING - R-5C  
DESIGN SPEED - 30 MPH

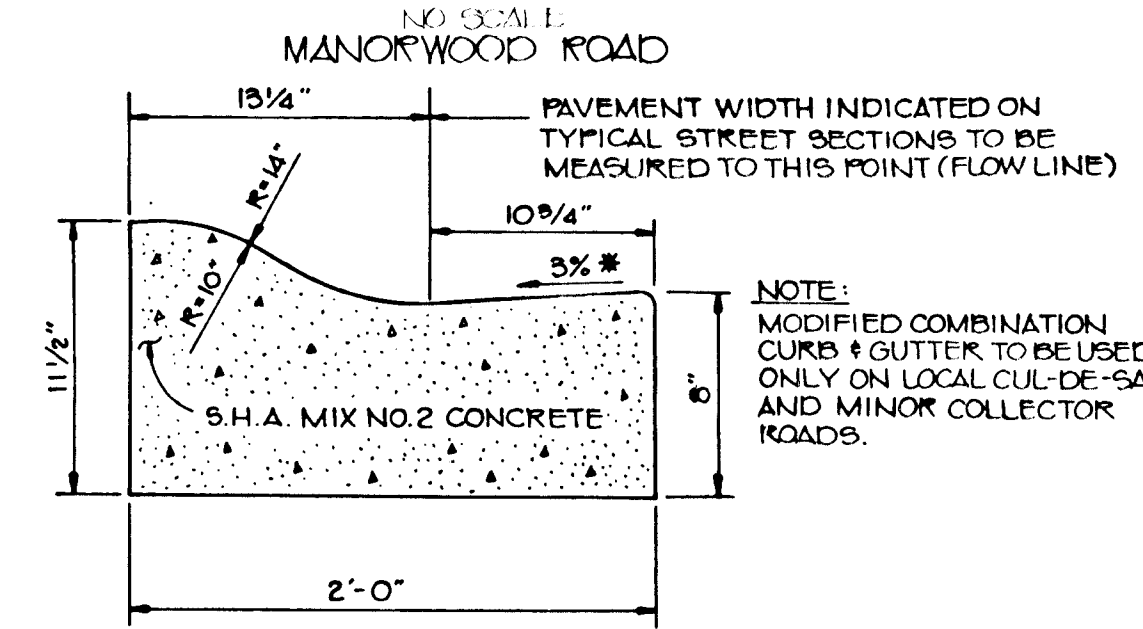


**(ALTERNATE)**



HOWARD COUNTY DESIGN MANUAL VOLUME IV  
STANDARD SPECIFICATIONS AND DETAILS FOR  
CONSTRUCTION (DRAWING R-2.01)

**6 1/2" PAVING, P-2**

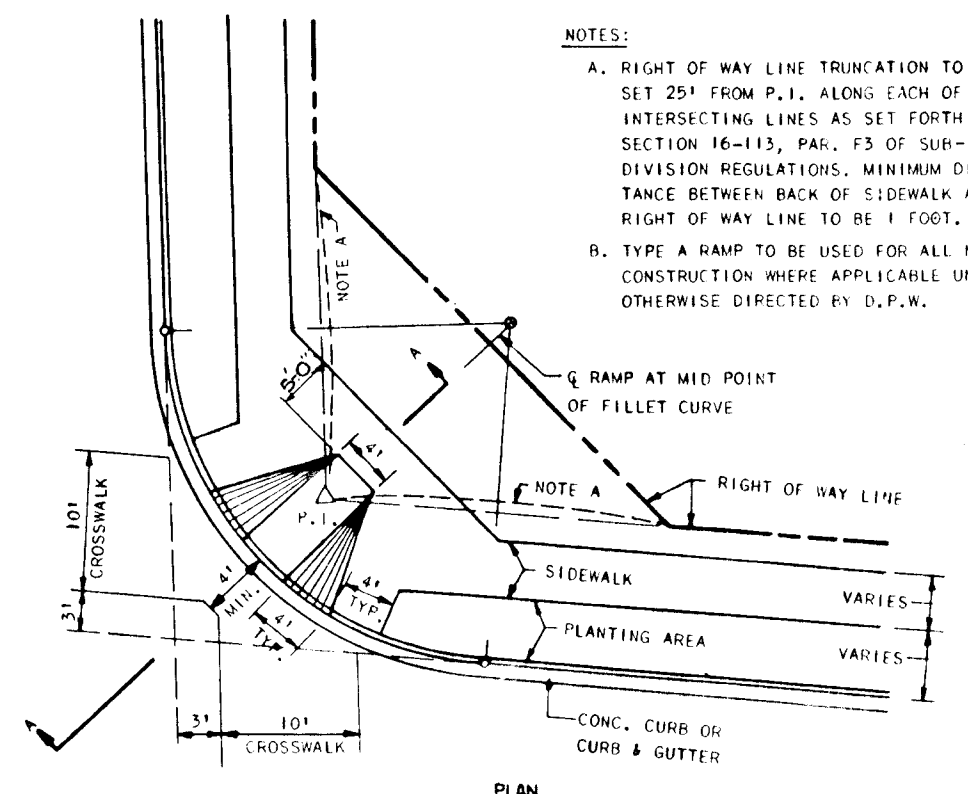


NOTE: MODIFIED COMBINATION CURBS & GUTTER TO BE USED ONLY ON LOCAL CUL-DE-SAC AND MINOR COLLECTOR ROADS.

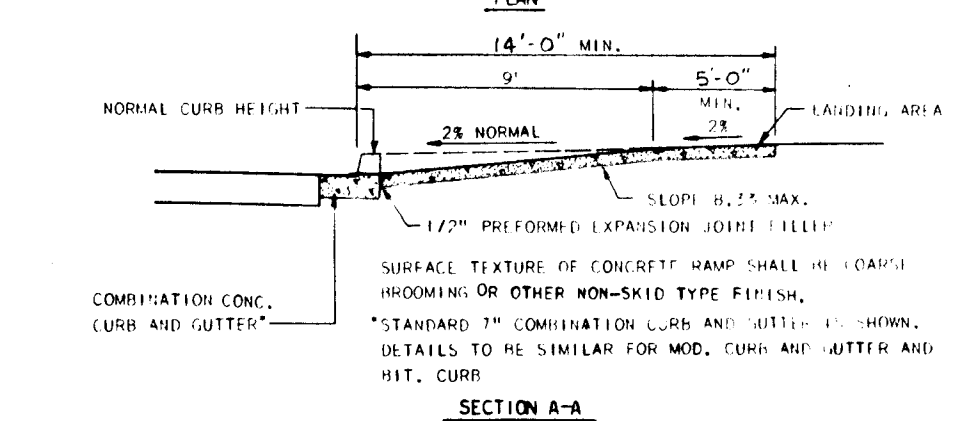
\* GUTTER PAN AT THE MEDIAN EDGE OF INTERMEDIATE ARTERIALS OR THE HIGH SIDE OF SUPERELEVATED SECTIONS SHALL BE SLOPED AT THE SAME RATE AND IN THE SAME DIRECTION AS THE PAVEMENT. MATCH PAVEMENT CROSS SLOPE WHEN CURB IS LOCATED ON LOW SIDE OF SUPERELEVATED SECTION AND THE RATE OF SUPERELEVATION IS GREATER THAN 3% FOR MODIFIED CURBS AND GUTTER.

**MODIFIED COMBINATION CURB AND GUTTER**  
NO SCALE

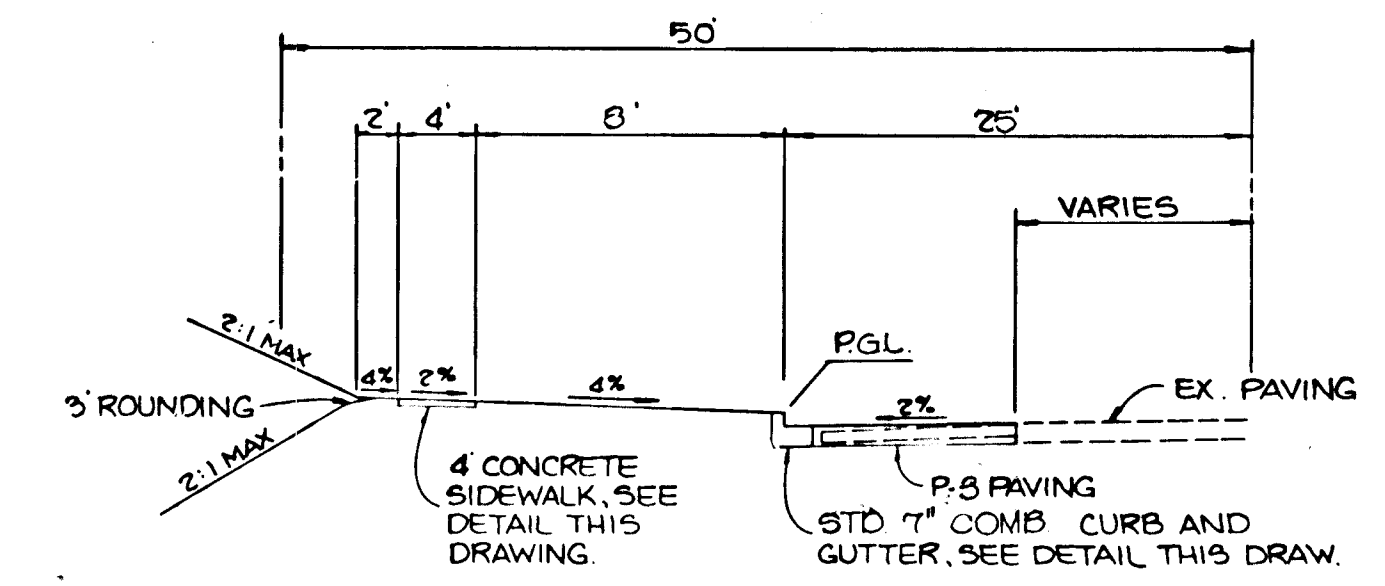
MANORWOOD ROAD



NOTES:  
A. RIGHT OF WAY LINE TRUNCATION TO BE SET 25' FROM P.L. ALONG EACH OF THE INTERSECTING LINES AS SET FORTH IN SECTION 16-113, PAR. F3 OF SUB-DIVISION REGULATIONS. MINIMUM DISTANCE BETWEEN BACK OF SIDEWALK AND RIGHT OF WAY LINE TO BE 1 FOOT.  
B. TYPE A RAMP TO BE USED FOR ALL NEW CONSTRUCTION WHERE APPLICABLE UNLESS OTHERWISE DIRECTED BY D.P.W.

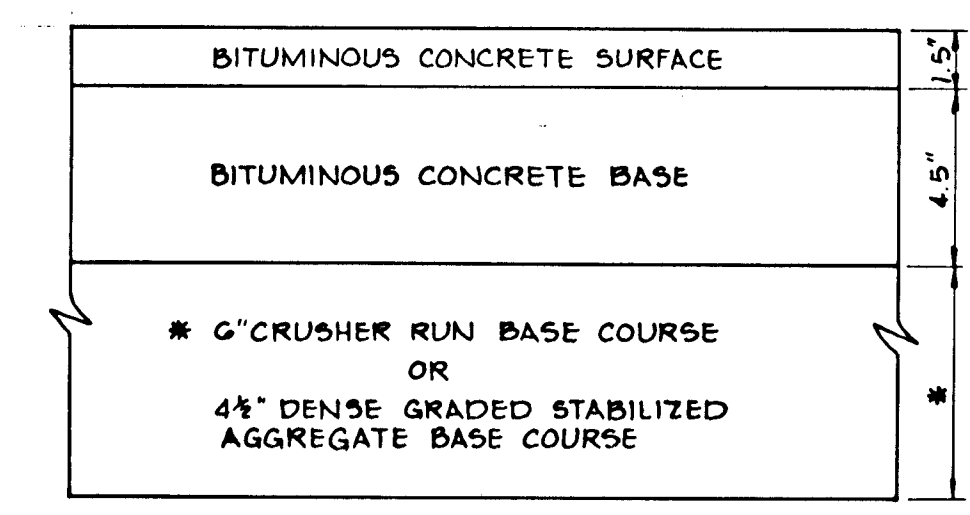


**SIDEWALK RAMP**  
NO SCALE

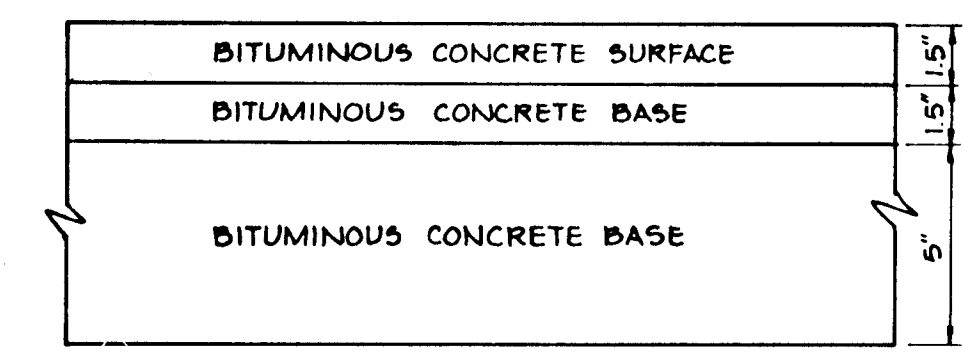


**TYPICAL SECTION**  
NO SCALE

STA 4+47.02 TO 6+34.4  
CLASSIFICATION - MINOR ARTERIAL  
ZONING - R-5C  
DESIGN SPEED - 40 MPH



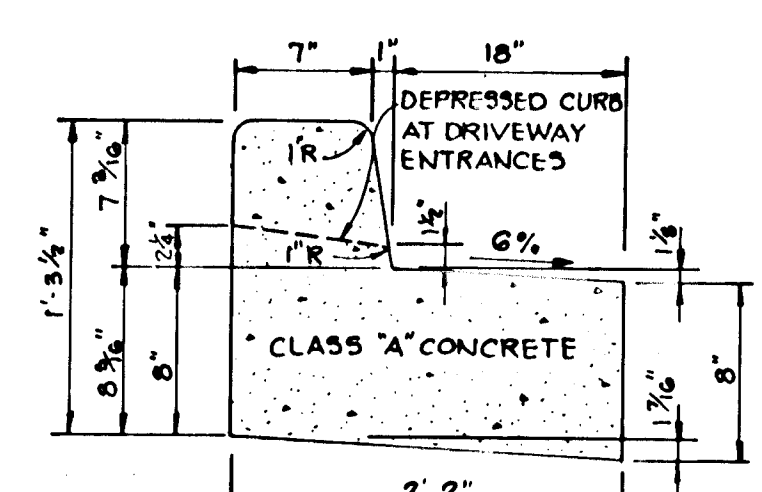
**(ALTERNATE)**



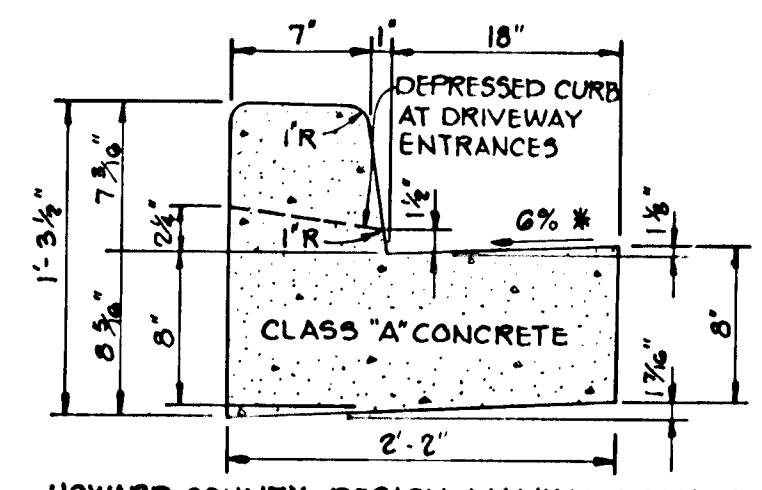
HOWARD COUNTY DESIGN MANUAL VOLUME IV  
STANDARD SPECIFICATIONS AND DETAILS FOR  
CONSTRUCTION (DRAWING R-2.01)

**8" PAVING, P-3**

WHISKEY BOTTOM ROAD



**REVERSE**

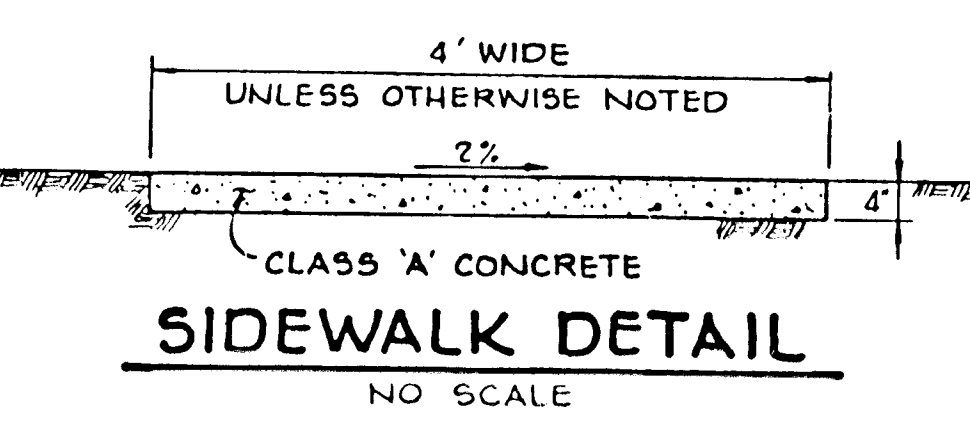


HOWARD COUNTY DESIGN MANUAL VOLUME IV  
STANDARD SPECIFICATIONS AND DETAILS FOR  
CONSTRUCTION (DRAWING R-3.01)

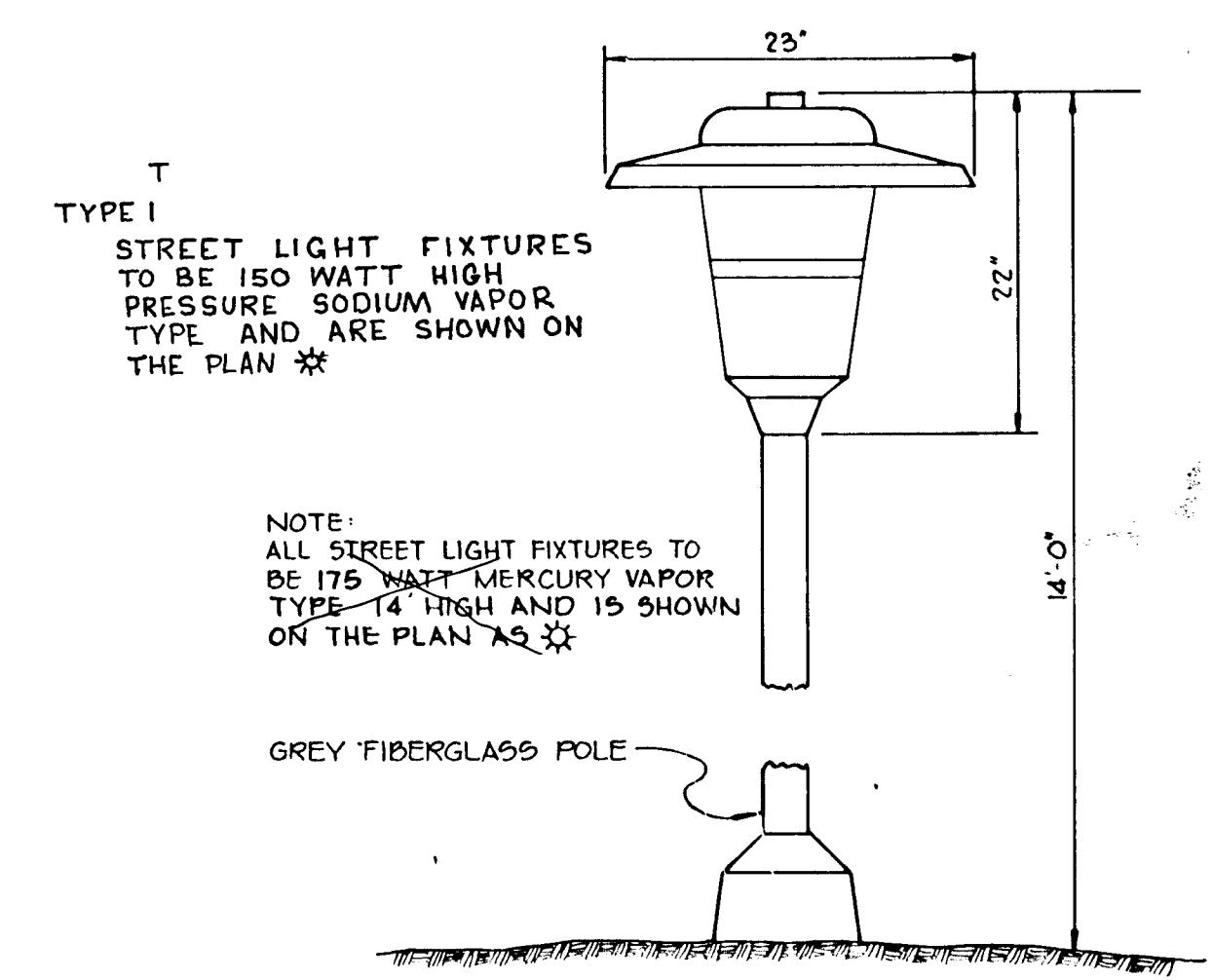
\* GUTTER PAN AT THE MEDIAN EDGE OF INTERMEDIATE ARTERIALS OR THE HIGH SIDE OF SUPERELEVATED SECTIONS SHALL BE SLOPED AT THE SAME RATE AS THE PAVEMENT.

**STANDARD 7" COMBINATION CURB AND GUTTER**  
NO SCALE

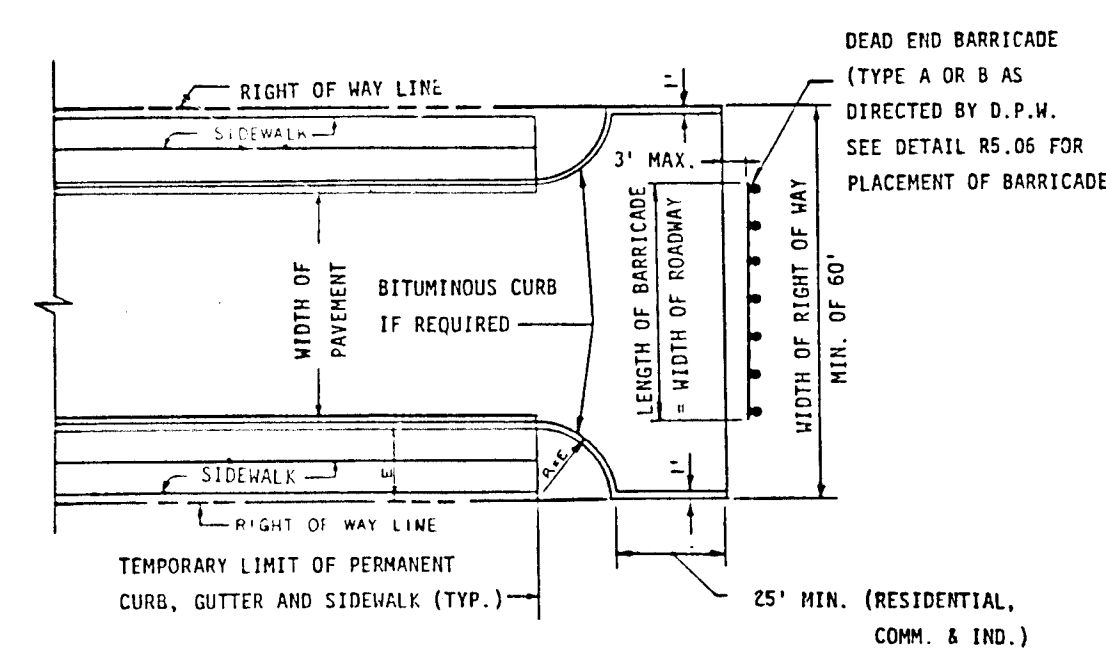
WHISKEY BOTTOM ROAD



**SIDEWALK DETAIL**  
NO SCALE



**DETAIL - LIGHTING FIXTURE**  
NO SCALE



- NOTES:
1. A TEE TURN-AROUND SHALL BE USED IN LIEU OF A CUL-DE-SAC ONLY IF THE STREET IS TO BE EXTENDED IN THE FUTURE.
  2. BITUMINOUS CURB SHALL EXTEND AROUND THE TEE TURN-AROUND IF AND AS REQUIRED TO CONTROL CURB DRAINAGE FROM THE ROADWAY SECTION.
  3. REFER TO STANDARD R-5.06 FOR TYPICAL ROADWAY PROFILE OF TEMPORARY LIMIT OF PAVING.
  4. FOR LOCAL ROADS, PROVIDE 5' REVERTIBLE EASEMENT EACH END OF THE TEE.
  5. PROVIDE EASEMENTS AS REQUIRED FOR PLACEMENT OF BARRICADE AND ANY NECESSARY GRADING (SEE DETAIL R-5.06)

**TEMPORARY TEE TURN AROUND**

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

*James H. Hagan* 3/14/89  
CHIEF, LAND DEVELOPMENT DIVISION DATE

*William W. Wencand* 3/14/89  
CHIEF, BUREAU OF HIGHWAYS DATE

*James B. Ryan* 3/15/89  
CHIEF, BUREAU OF ENGINEERING DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

*Mark S. J. J. J.* 3-21-89  
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

NO DATE *Bobbed Type 2" Street Light* REVISION

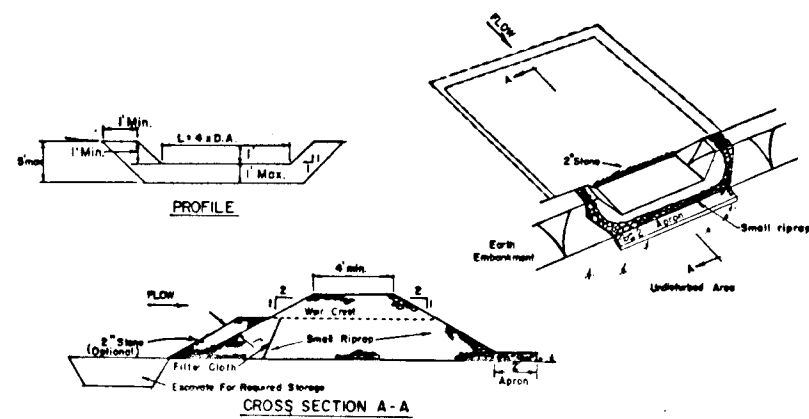
**TRACY, SCHULTE & ASSOCIATES INC.**  
planning • architecture • engineering

8480 Baltimore National Pike • Ellicott City, Maryland 21043 • (301) 465-6105

*James B. Ryan*  
REGISTERED PROFESSIONAL ENGINEER

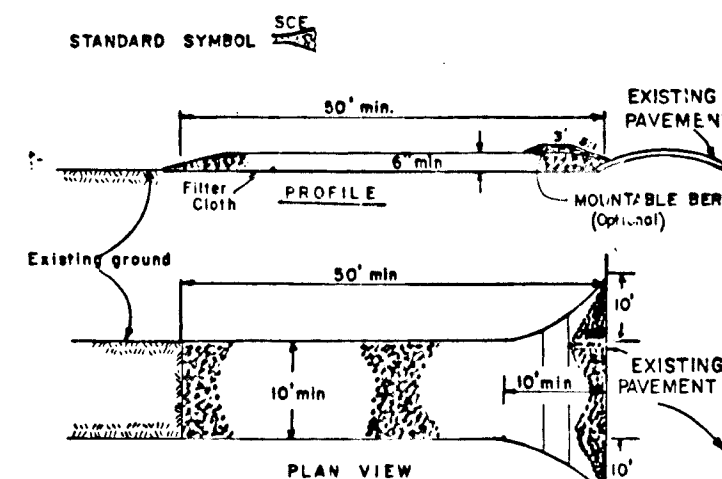
OWNER	SECURITY DEVELOPMENT CORP PO BOX 417 ELLICOTT CITY, MARYLAND 21043	PROJECT	<b>CURRY PROPERTY</b> SECTION 1, AREA 1 LOTS 1-25 821/304
DEVELOPER	SECURITY DEVELOPMENT CORP PO BOX 417 ELLICOTT CITY, MARYLAND 21043	LOCATION	TAX MAP NO 47 PARCEL NO 178 6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
DATE	NOV. 2, 1988 MARCH 2, 1989	TITLE	DETAILS
DES RJW	DRN EWM	SCALE	AS NOTED
		PROJECT NO	0073
		DRAWING	6 OF 6

1104



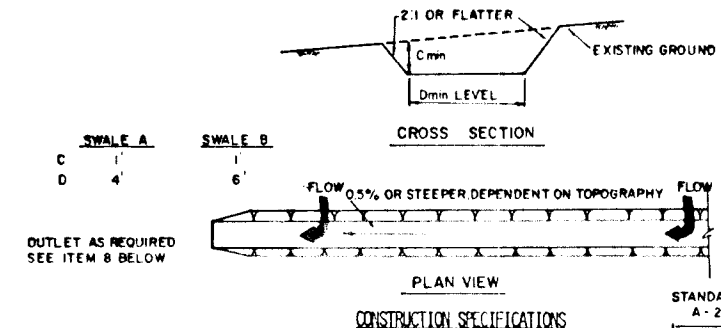
- OPTION: A one foot layer of 2" stone may be placed on the upstream side of the trap in place of the standard filter cloth.
- CONSTRUCTION SPECIFICATIONS FOR STONE:
- Stone under sediment shall be clean, graded and stripped of any vegetation and soil. The stone area shall be cleared.
  - All cut and fill slopes shall be 2:1 or flatter.
  - The stone used in the outlet shall be small enough to pass through a 3" opening of 2" diameter placed on the upstream side on the small stone 2" sediment filter cloth in the trap.
  - Sediment shall be removed and trap restored to its original dimensions when the outlet has accumulated to the design depth of the trap.
  - The structure shall be inspected after each rain and repairs made as needed.
  - Construction operations shall be carried out in such a manner that erosion and water pollution is minimized.
  - The structure shall be removed and the area stabilized when the drainage area has been properly stabilized.

**STONE OUTLET TRAP**  
NO SCALE



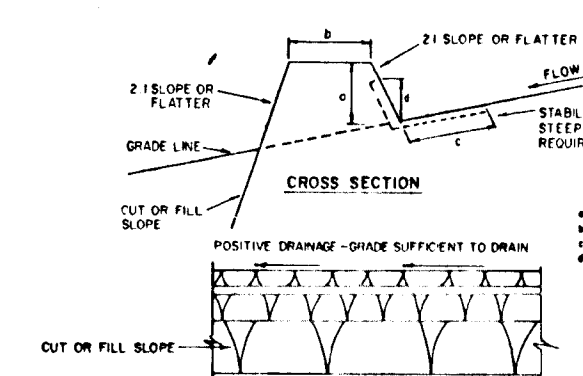
- CONSTRUCTION SPECIFICATIONS:
- Stone Blot - Use 2" stone, or recycled or recycled concrete equivalent.
  - Gravel - An equivalent, but not less than 50 feet (except on a single road-shoulder lot where a 30 foot minimum length would apply).
  - Structure - Not less than 18" high.
  - Width - Ten (10) foot minimum, but not less than the full width of driveway where driveway or walkway is to be stabilized.
  - Filter Cloth - Will be placed over the entire area prior to placing of stone. Filter cloth will not be placed on a slope steeper than 2:1.
  - Surface Water - All surface water flowing or directed toward construction entrance shall be piped across the entrance. If piping is impractical, a mounded beam with 3:1 slope will be permitted.
  - Maintenance - The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto public right-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or cleanup of any measures used to trap sediment. All sediment applied, dropped, washed or tracked onto public right-of-way must be removed immediately.
  - Washing - Wheels shall be cleaned to remove sediment prior to entrance onto public right-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.
  - Periodic inspection and needed maintenance shall be provided after each rain.

**STABILIZED CONSTRUCTION ENTRANCE**  
NO SCALE



- CONSTRUCTION SPECIFICATIONS:
- All temporary swales shall have unimproved positive grade to an outlet.
  - Diverted runoff from a disturbed area shall be conveyed to a sediment trapping device.
  - Diverted runoff from an undisturbed area shall outlet directly into an undisturbed stabilized area of non-erosive velocity.
  - All trees, brush, stumps, structures, and other objectionable material shall be removed and disposed of so as not to interfere with the proper functioning of the swale.
  - The swale shall be excavated or built up to line, grade, and cross section as required to provide the designed flow and be free of rock projections or other irregularities which will impede flow.
  - Fill shall be compacted by hand or machine.
  - All earth removed and not needed on construction shall be placed so that it will not interfere with the functioning of the swale.
  - Stabilization shall be as per the chart below:
- | TYPE OF DISTURBANCE | CROSS SECTION | ELK DYPPEL STABILIZATION |
|---------------------|---------------|--------------------------|
| 1                   | 0.5-1.0'      | SEED AND STRAW MULCH     |
| 2                   | 1.1-1.5'      | SEED AND STRAW MULCH     |
| 3                   | 1.6-2.0'      | SEED WITH MULCH          |
| 4                   | 2.1-2.5'      | LINED RIP-RAP 4-8"       |

**TEMPORARY SWALE**  
NO SCALE



- CONSTRUCTION SPECIFICATIONS:
- All dikes shall be constructed by hand or machine.
  - Top width shall be wide enough to allow for the placement of equipment if desired to facilitate construction and maintenance.
  - Field location shall be marked as needed to utilize a stabilized safe outlet.
  - Earth dikes shall have an outlet that functions with a minimum of erosion. Runoff shall be conveyed to a sediment trapping device such as a sediment trap or sediment basin within the time control of the drainage area above the dike and not immediately stabilized.
  - Stabilization shall be as per the chart below:
- | TYPE OF DISTURBANCE | CROSS SECTION | DIKE A               | DIKE B               |
|---------------------|---------------|----------------------|----------------------|
| 1                   | 0.5-1.0'      | SEED AND STRAW MULCH | SEED AND STRAW MULCH |
| 2                   | 1.1-1.5'      | SEED AND STRAW MULCH | SEED AND STRAW MULCH |
| 3                   | 1.6-2.0'      | SEED WITH MULCH      | SEED WITH MULCH      |
| 4                   | 2.1-2.5'      | LINED RIP-RAP 4-8"   | LINED RIP-RAP 4-8"   |

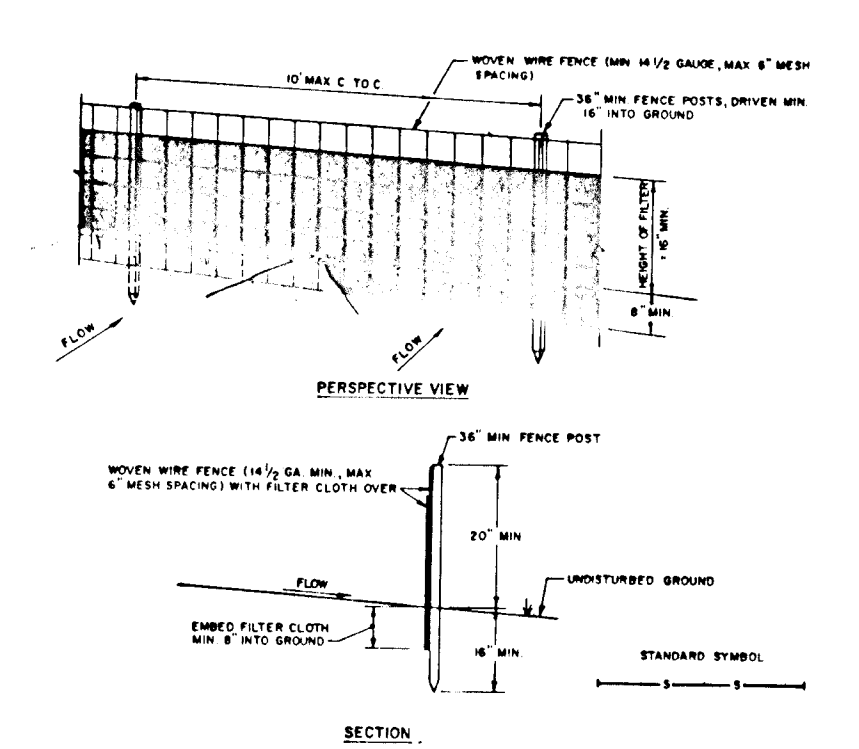
**EARTH DIKE**  
NO SCALE

- PERMANENT SEEDING PREPARATION:
- SEEDING PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY BAKING, 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:
- PREFERRED - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 1% CaO, 1% MgO, 87% CaCO<sub>3</sub>) AND 400 LBS PER ACRE 10-10-10 FERTILIZER (14 10% N, 10% P<sub>2</sub>O<sub>5</sub>, 10% K<sub>2</sub>O) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE INCHES OF SOIL. AT TIME OF SEEDING, APPLY 400 LBS PER ACRE 30-0-0 UREA-FORM FERTILIZER (9 10% N, 10% P<sub>2</sub>O<sub>5</sub>, 81% CaCO<sub>3</sub>).
  - ACCEPTABLE - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 1% CaO, 1% MgO, 87% CaCO<sub>3</sub>) AND 400 LBS PER ACRE 10-10-10 FERTILIZER (14 10% N, 10% P<sub>2</sub>O<sub>5</sub>, 10% K<sub>2</sub>O) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE INCHES OF SOIL.

- SEEDING: FOR THE PERIODS MARCH 1 THRU APRIL 30 AND FROM AUGUST 1 THRU OCTOBER 15, SEED WITH 60 LBS PER ACRE (1.4 1% N, 1% P<sub>2</sub>O<sub>5</sub>, 1% K<sub>2</sub>O) 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 OF 10-10-10 FERTILIZER OR 10 LBS PER ACRE OF SUPERPHOSPHATE. DURING THE PERIOD OF OCTOBER 16 THRU FEBRUARY 28, PREPARE 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 SOU. 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 80 100% MULCH) OF SELECTED SMALL GRASS STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 210 GALLONS PER ACRE OF 50% EMULSIFIED ASPHALT OR FLAT AREA. ON SLOPES, 6 FT. OR HIGHER, USE 345 GALLONS PER ACRE (18 50% EMULSIFIED ASPHALT).
- MAINTENANCE: INSPECT ALL SEEDING AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDINGS.

- TEMPORARY SEEDING PREPARATION:
- APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE REDISTURBED WHERE A SHORT-TERM VEGETATIVE COVER IS NEEDED.
- SEEDING PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY BAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED.
- SOIL AMENDMENTS: APPLY 400 LBS PER ACRE 10-10-10 FERTILIZER (14 10% N, 10% P<sub>2</sub>O<sub>5</sub>, 10% K<sub>2</sub>O) BEFORE SEEDING.
- SEEDING: FOR PERIODS MARCH 1 THRU APRIL 30 AND FROM AUGUST 1 THRU NOVEMBER 15, SEED WITH 2-1/2 LBS PER ACRE OF ANNUAL RYE (32 100% RYE). FOR THE PERIOD MAY 1 THRU AUGUST 14, SEED WITH 2 LBS PER ACRE OF SEEDING LONGGRASS (10 100% SEED). FOR THE PERIOD NOVEMBER 16 THRU FEBRUARY 28, PREPARE SITE BY APPLYING 2 TONS PER ACRE OF WELL-ANCHORED STRAW-MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING, OR USE SOU.
- MULCHING: APPLY 1-1/2 TO 2 TONS PER ACRE (70 TO 80 100% MULCH) OF SELECTED SMALL GRASS STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 210 GALLONS PER ACRE OF 50% EMULSIFIED ASPHALT OR FLAT AREA. ON SLOPES, 6 FT. OR HIGHER, USE 345 GALLONS PER ACRE (18 50% EMULSIFIED ASPHALT).
- REFER TO THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR THIS SITE AND METHODS NOT COVERED.

- SEDIMENT CONTROL NOTES:
- 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 (992-2437).
  - 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.
  - Following initial soil disturbance or redisturbance, permanent or temporary stabilization shall be completed within: a) 7 calendar days for all permanent sediment control structures, dikes, perimeter slopes and all slopes greater than 3:1, b) 14 days for all other disturbed or graded areas on the project site.
  - 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.
  - 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 SEEDING (Sec. 31) SOU (Sec. 34) TEMPORARY SEEDING (Sec. 30) AND MULCHING (Sec. 32). TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES.
  - All sediment control structures are to remain in place and are to be maintained in operative condition until permission for their removal has been obtained from the Howard County Sediment Control Inspector.
  - SITE ANALYSIS:
    - TOTAL AREA OF SITE: 600 ACRES
    - AREA TO BE ROOFED OR PAVED: 100 ACRES
    - AREA TO BE VEGETATIVELY STABILIZED: 500 ACRES
    - TOTAL DIRT: 100 CU. YDS.
    - TOTAL FILL: 100 CU. YDS.
    - OFF-SITE WASTE/BORROW AREA LOCATION: 100 FT.
  - ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
  - ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY SOIL SEDIMENT CONTROL INSPECTOR.
  - 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.



- CONSTRUCTION NOTES FOR FABRICATED SILT FENCE:
- When wire fence to be fastened securely to fence posts with wire ties on stakes.
  - Filter cloth to be fastened securely to wire mesh fence with ties spaced every 4' at top and mid section.
  - When two sections of filter cloth adjoin each other they shall be overlapped by six inches and pinned.
  - Maintenance shall be performed as needed and material removed when needed to develop in the silt fence.
- POSTS: STEEL EIGHT (8) OR U TYPE OF 2" WOODS
- FENCE: 36" WIRE MESH GA. 18" WIRE MESH OPENING
- FILTER CLOTH: FILTER X, 100% STABILIZED, 100% OR APPROVED EQUAL
- PREFABRICATED UNIT: GEOPAN, SOULINER, OR APPROVED EQUAL

**SILT FENCE**  
NO SCALE

SEQUENCE OF CONSTRUCTION

NOTE: STORMWATER MANAGEMENT FOR THIS SITE WAS INCLUDED IN COMPUTATIONS FOR KINGS WOODS SECTION 1, AREA 1 F-87-207

DAY	ACTIVITY
1	OBTAIN A GRADING PERMIT.
2-3	CLEAR AND GRUB AREA FOR AND INSTALL STABILIZED CONSTRUCTION ENTRANCE (SCE).
3-6	CLEAR AND GRUB AREA FOR AND INSTALL SEDIMENT TRAP AND STABILIZE IN ACCORDANCE WITH TEMPORARY SEEDING NOTES.
6-7	CLEAR AND GRUB AREAS FOR REMAINING SEDIMENT CONTROL DEVICES.
7-10	INSTALL REMAINDER OF SEDIMENT CONTROL DEVICES AND STABILIZE IN ACCORDANCE WITH TEMPORARY SEEDING NOTES.
10-20	CLEAR AND GRUB REMAINDER OF SITE.
20-25	GRADE SITE.
25-28	INSTALL UTILITIES IE; WATER, SEWER, STORMDRAINS, ETC. NOTE THAT THE STORMDRAIN BETWEEN I-1 AND I-2 AT STA 2+05 SHOULD BE TEMPORARILY DIVERTED TO THE SEDIMENT TRAP VIA THE TEMPORARY SWALE. THIS TEMPORARY DIVERSION IS TO REMAIN IN PLACE UNTIL ALL AREAS DRAINING TO INLETS 1-2 THROUGH 1-6 ARE STABILIZED.
28-29	STABILIZE ALL SLOPES IN ACCORDANCE WITH PERMANENT SEEDING NOTES.
29-30	COMPLETE ALL ROADWAY CONSTRUCTION AND STABILIZE ALL DISTURBED AREAS IN ACCORDANCE WITH PERMANENT SEEDING NOTES.
30-31	UPON APPROVAL OF SEDIMENT CONTROL INSPECTOR, REMOVE ALL SEDIMENT CONTROL DEVICES AND REMOVE TEMPORARY STORMDRAIN DIVERSION BETWEEN I-1 AND I-2 AND STABILIZE ALL DISTURBED AREAS IN ACCORDANCE WITH PERMANENT SEEDING NOTES.

BY THE DEVELOPER:

"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES 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. Masby, Jr.*  
JAMES R. MASBY, JR.  
SECURITY DEVELOPMENT CORPORATION - PRESIDENT  
3-2-89  
DATE

BY THE ENGINEER:

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

*James K. Tracy*  
ENGINEER: JAMES K. TRACY, P.E.  
3-2-89  
DATE

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

*James M. Helm*  
JAMES M. HELM  
U.S. SOIL CONSERVATION SERVICE  
3-3-89  
DATE

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

*Stephen L. Fisher*  
STEPHEN L. FISHER  
HOWARD S.C.D.  
3-3-89  
DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

*Paul Seaman*  
PAUL SEAMAN  
CHIEF, LAND DEVELOPMENT DIVISION  
3/14/89  
DATE

*Genevieve W. Weiland*  
GENEVIEVE W. WEILAND  
CHIEF, BUREAU OF HIGHWAYS  
3/14/89  
DATE

*Richard E. Riley*  
RICHARD E. RILEY  
CHIEF, BUREAU OF ENGINEERING  
3/15/89  
DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

*David S. Taylor*  
DAVID S. TAYLOR  
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT  
DATE

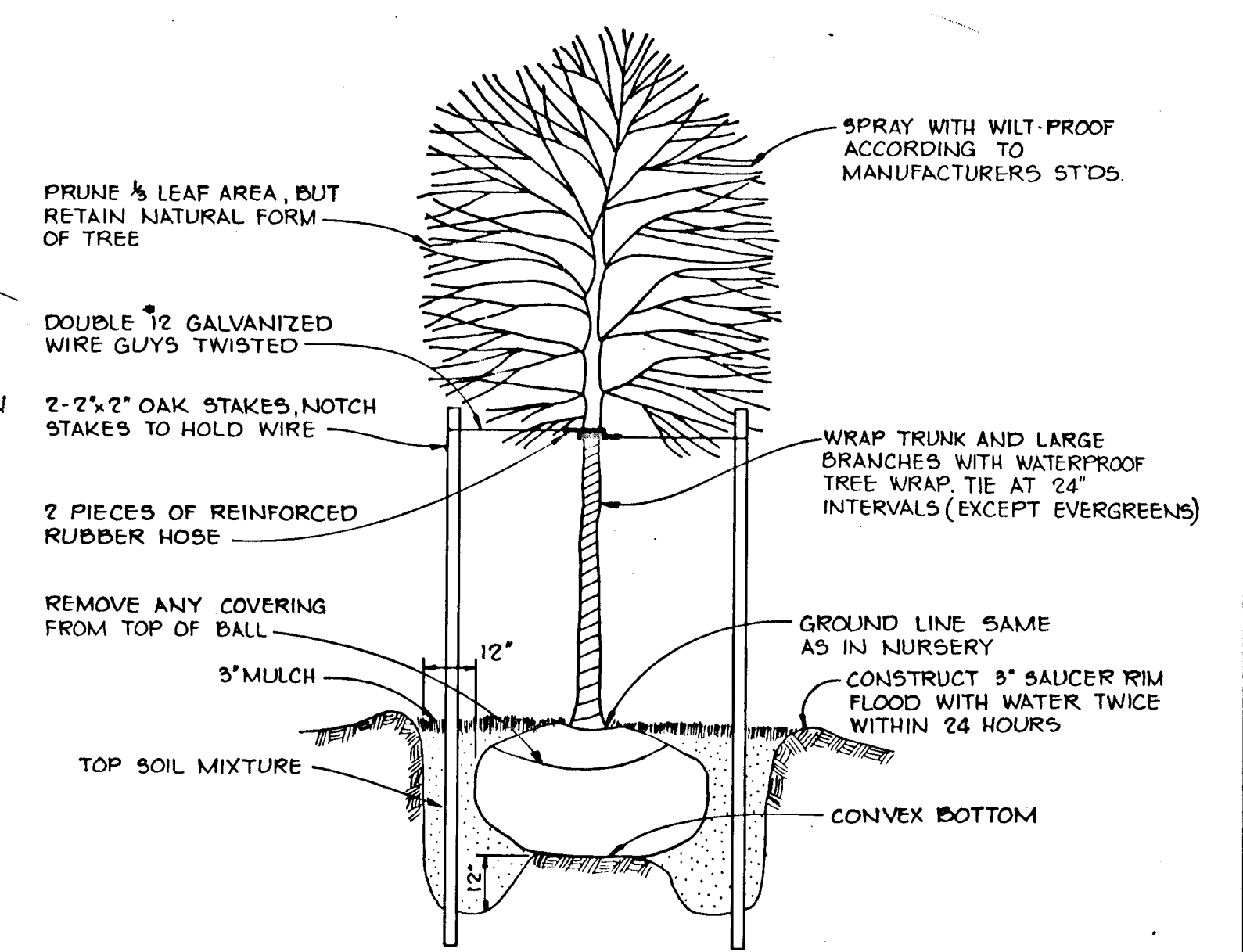
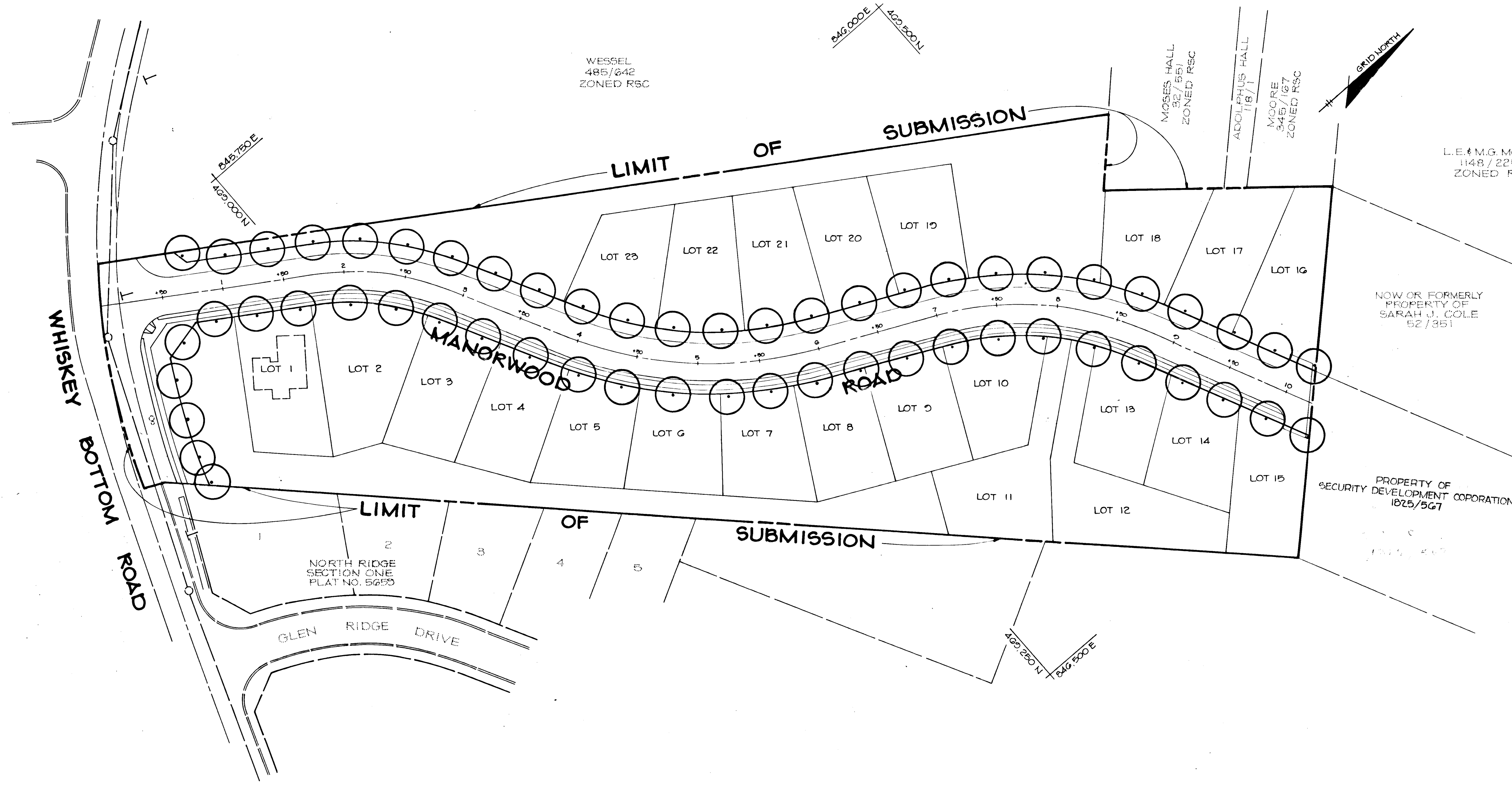
NO	DATE	REVISION

**TRACY, SCHULTE & ASSOCIATES INC.**  
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8480 Baltimore National Pike • Ellicott City, Maryland 21043 • (301) 465-6105

OWNER	SECURITY DEVELOPMENT CORP PO BOX 417 ELLCOTT CITY, MARYLAND 21043	PROJECT	CURRY PROPERTY SECTION 1, AREA 1 LOCATION TAX MAP NO. 47 PARCEL NO. 178 6 <sup>th</sup> ELECTION DISTRICT HOWARD COUNTY, MARYLAND
DEVELOPER	SECURITY DEVELOPMENT CORP PO BOX 417 ELLCOTT CITY, MARYLAND 21043	TITLE	SEDIMENT CONTROL NOTES AND DETAILS
DATE	NOV 2, 1988 MARCH 2, 1989	PROJECT NO	C073
DES	RJW	DRN	EWM
SCALE	AS SHOWN	DRAWING	7 OF 8

1104



**TREE PLANTING DETAIL**  
NO SCALE

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
*[Signature]* 3/14/89  
 CHIEF, LAND DEVELOPMENT DIVISION DATE  
*[Signature]* 3/14/89  
 CHIEF, BUREAU OF HIGHWAYS DATE  
*[Signature]* 3/15/89  
 CHIEF, BUREAU OF ENGINEERING DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING  
*[Signature]* 3-2-89  
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

PLANT LIST			
SYMBOL	QUANTITY	NAME	REMARKS
○	56	ALL STREET TREE VARIETIES TO BE TAKEN FROM THE APPROVED DECIDUOUS SHADE TREE LIST.	2 1/2 Min Cal B+B Full Head
		187.11 = LENTGH OF EX. ROADS + 40	= 4.08
		1023.58 = LENTGH OF PROPOSED ROADS + 20	= 51.18
		TOTAL REQUIRED	55.86
		TOTAL PROVIDED	56

NO	DATE	REVISION

**TRACY, SCHULTE & ASSOCIATES INC.**  
 planning • architecture • engineering  
 8480 Baltimore National Pike • Ellicott City, Maryland 21043 • (301) 465-6105

*[Signature]*

OWNER	PROJECT
SECURITY DEVELOPMENT CORP. P.O. BOX 417 ELLICOTT CITY, MARYLAND 21043	<b>CURRY PROPERTY</b> SECTION 1, AREA 1 021/204
DEVELOPER	LOCATION
SECURITY DEVELOPMENT CORP. P.O. BOX 417 ELLICOTT CITY, MARYLAND 21043	TAX MAP NO 47 PARCEL NO 178 6 <sup>th</sup> ELECTION DISTRICT HOWARD COUNTY, MARYLAND
	TITLE
	<b>STREET TREE PLAN</b>
DATE	PROJECT NO
NOV 2, 1986 MARCH 2, 1989	0073
DES: RJW	DRN: JLR
SCALE: 1" = 50'	DRAWING: 8 OF 8

1104