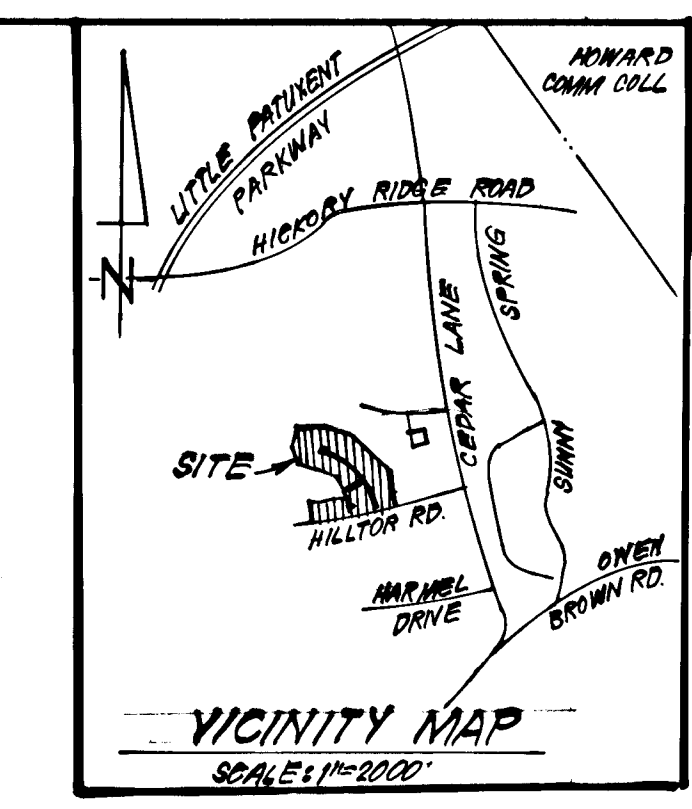


**CURVE DATA**  
 P.C. 0198.07 ± FT. 181.85  
 R = 800.00'  
 Δ = 90°00'00"  
 L = 83.78'  
 CHD. = 58°26'00" IN  
 83.75

**CURVE DATA**  
 P.C. 3115.00 ± FT. 9104.70  
 R = 125.00'  
 Δ = 90°30'00"  
 L = 153.47'  
 CHD. = 51°18'56" IN  
 543.52

**CURVE & GUTTER LEGEND**  
 Modified C&G



- GENERAL NOTES**
- All storm drain and paving shall be constructed in accordance with the latest details and specifications of Howard County & Md. Sta.
  - Types of Storm Drain structures refer to the Standard Details of Howard County & Maryland State Highway Administration.
  - Trench Compaction for storm drains, within Road or Street rights of way limits shall be in accordance with Howard Co. Design Manual Vol. II, Class "C" Trench Bedding to be utilized unless shown otherwise.
  - Information concerning underground utilities was obtained from available records, but the contractor must determine the exact location and elevation of the mains by digging test pits, by hand, at all utility crossings, well in advance of construction.
  - All utility companies shall be notified 24 hrs. in advance of construction.
  - All traffic control services, parking, and signing to be done in accordance with the Manual of Uniform Traffic Control Devices, 1971 Edition.
  - Sign and Crest Vertical curves were obtained in accordance with "A Policy on Geometric Design of Rural Highways", 1965, by AASHTO.
  - Provide Concrete Sidewalk ramps, Ho. Co. Std. Type A, R-4.01 where shown in plan.
  - Design Speeds 30 mph ± Zoning: R52
  - Storm Water Management provided under Cedar Acres, Sect. 1 F-84-156

**STREET TREE SCHEDULE**

KEY	DESCRIPTION	SIZE	QUANT.	ROOT
R9	ACER RUBRUM 'RED SUNSET'	2 1/2" CAL MIN.	57	B4B
R9	ACER RUBRUM 'OCTOBER GLORY'	"	14	B4B

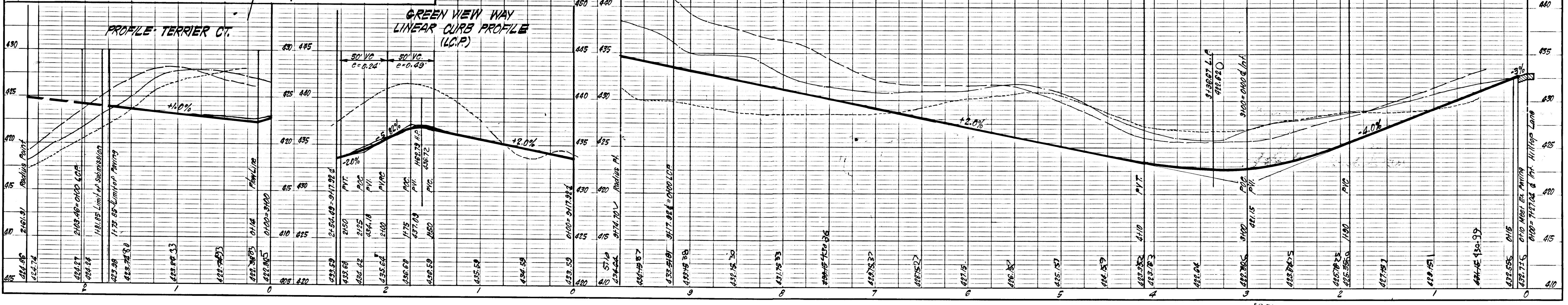
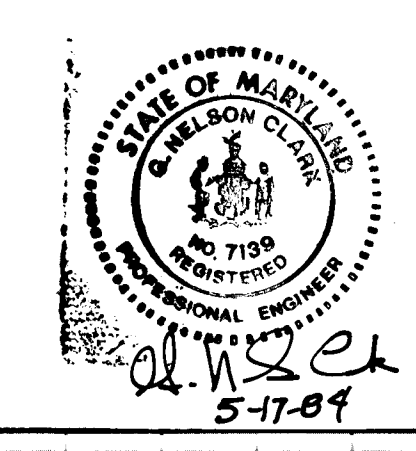
NOTE: PLANTING TO COMPLY WITH L.C.A.M.V. LANDSCAPE SPECIFICATIONS.  
 CONTRACTOR TO VERIFY UNDERGROUND UTILITIES BEFORE DIGGING.  
 LOCATIONS MAY VARY SLIGHTLY TO ACCOMMODATE FIELD CONDITIONS.  
 STREET TREE PLANTING TO COMPLY WITH SECTION 14.131 OF THE HOWARD COUNTY SUBDIVISION REGULATIONS.

APPROVED: DEPARTMENT OF PUBLIC WORKS:  
 J. S. ... 8-23-84  
 Chief, Bureau of Engineering  
 APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING  
 John ... 8-22-84  
 Chief, Division of Land Development & Zoning Administration

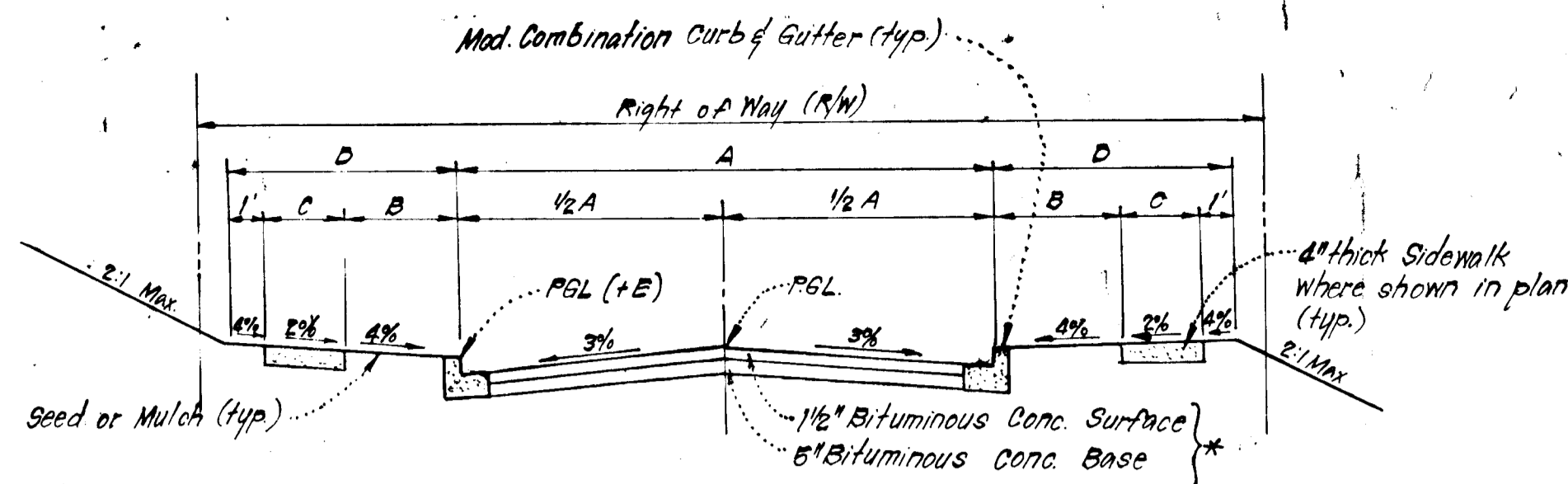
**CLARK • FINEFROCK & SACKETT**  
 ENGINEERS • PLANNERS • SURVEYORS  
 11315 LOCKWOOD DRIVE • SILVER SPRING, MARYLAND 20904 • (301) 593-3400

DESIGNED	JLS	SCALE	AS SHOWN
DRAWN	M/W	DRAWING	1054
CHECKED	JLS	JOB NO.	83-114
DATE	5-15-84	FILE NO.	83-114-D

ROAD CONSTRUCTION PLANS  
 GREEN VIEW WAY & TERRIER COURT  
**CEDAR ACRES**  
 SECTION TWO  
 6TH ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND  
 FOR: BRANTLY DEVELOPMENT CORP.  
 6501 TWIN KNOTS ROAD  
 COLUMBIA, Md. 21045



# 86



\* For Alternate Paving Section - See det. this str.  
**TYPICAL PAVING SECTION - PUBLIC ROADS**

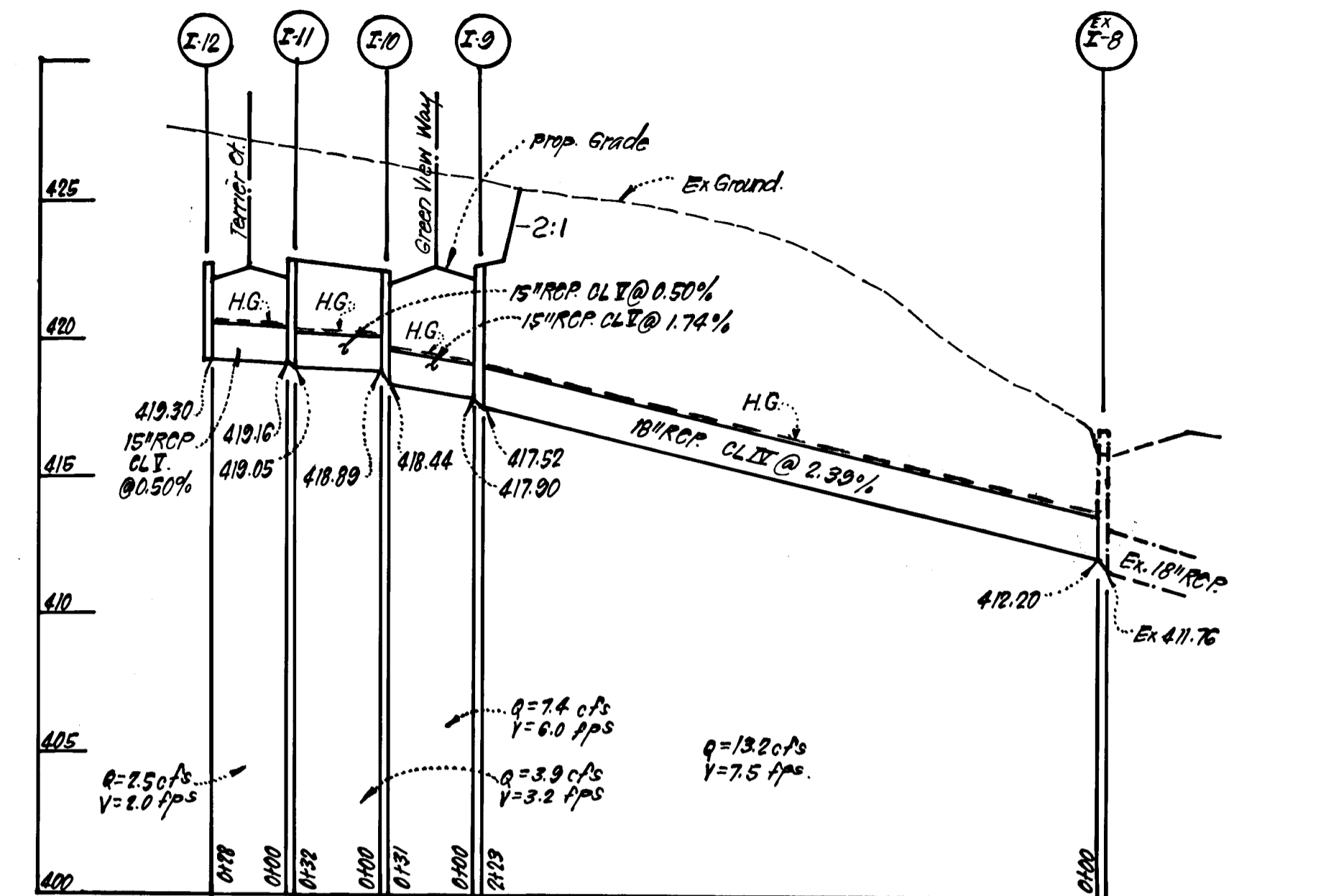
NO SCALE

STREET NAME & STATION	TYPE OF TRAFFIC	A	B	C	D	R/W	ZONING	DESIGN SPEED	E
TERRIER COURT Sta. 0100 to 1181.85	CUL DE SAC	24	-	-	10	50	RSC	30 mph	+14
GREEN VIEW WAY Sta. 0100 to 3174.70	CUL DE SAC	28	4	4	9	50	RSC	30 mph	+03

No.	TYPE	IN. IN	IN. OUT	TOP ELEVATION		REMARKS	LOCATION
				UPPER	LOWER		
# E-9	A-10 Inlet	417.90	417.52	422.70	422.70	Ho. Co. Std. SD 4-02 W-2'6"	Inlet 313331 14' RT
# E-10	A-10 Inlet	418.89	418.44	422.56	422.56	" " SD 4-02 "	Inlet 314198 14' LT
# E-11	A-5 Inlet	419.16	419.05	422.81	422.75	" " SD 4-01 "	Inlet 0140 12' RT
# E-12	A-5 Inlet	-	419.30	422.81	422.75	" " SD 4-01 "	Inlet 0140 12' LT

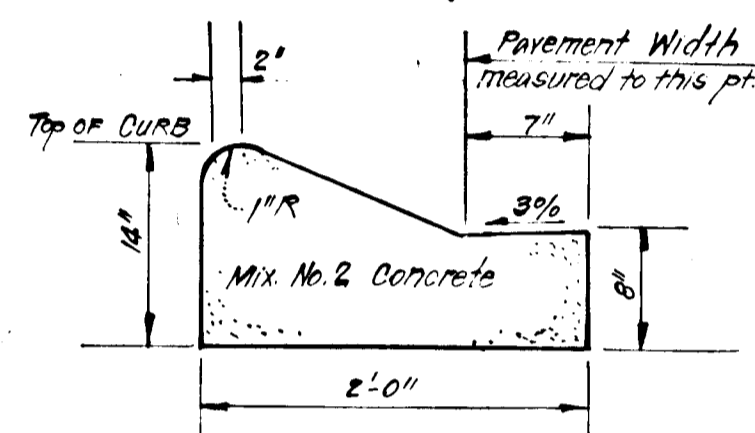
△ All inverts to be fully developed  
 \*\* See Ho. Co. Std. R.306 for Transition Curb Section.

SIZE	TYPE	LENGTH
15"	RCP OLI	9' L.F.
18"	RCP OLI	223' L.F.



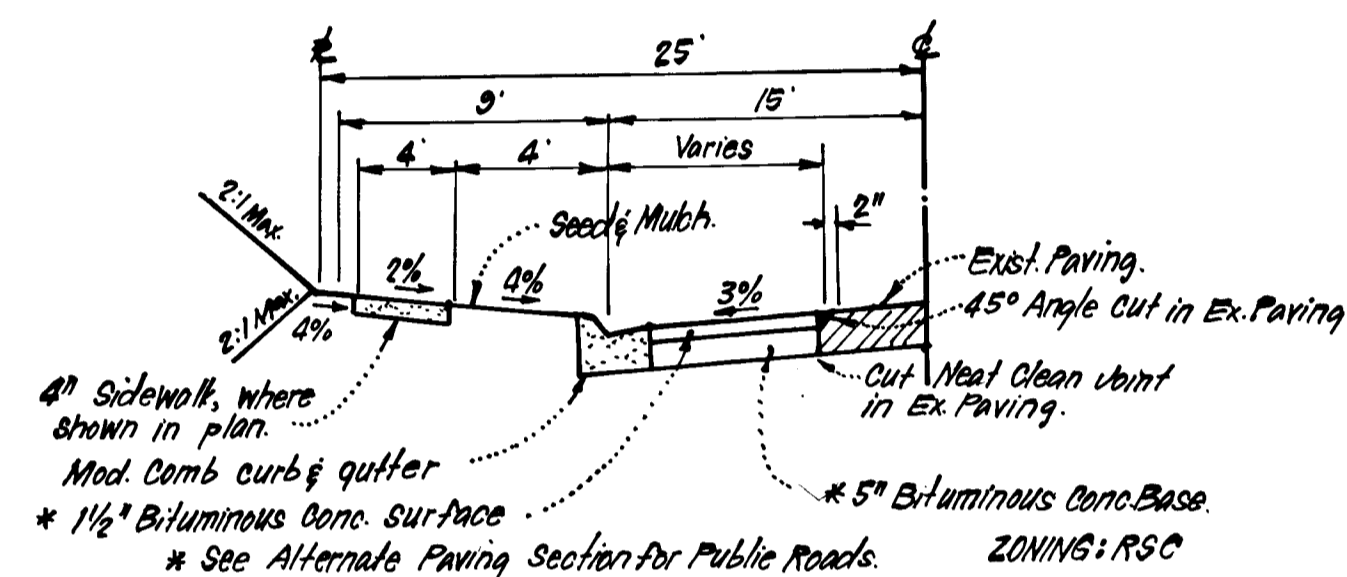
**PROFILE**

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



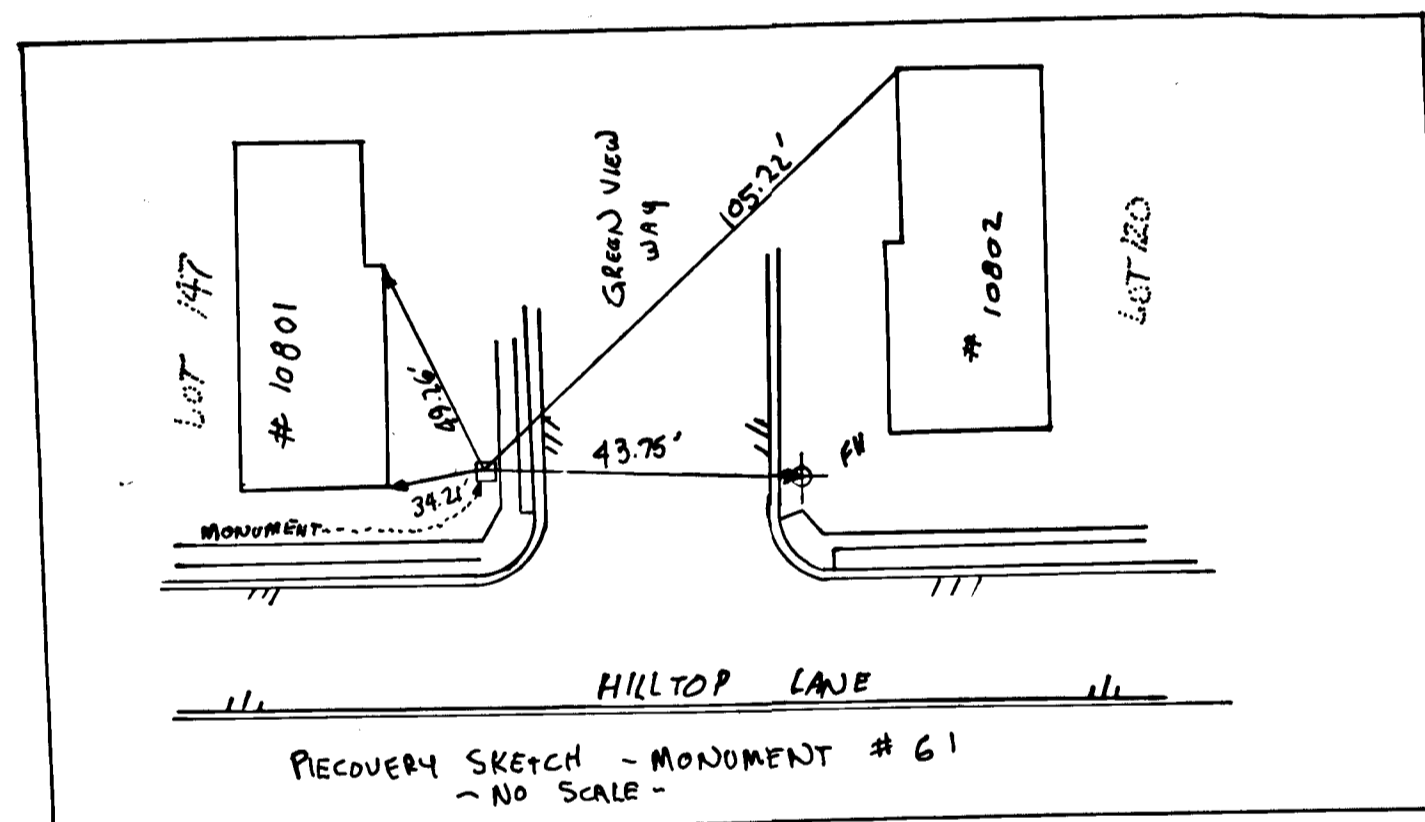
**MODIFIED COMBINATION CURB & GUTTER**

NO SCALE



**TYPICAL HALF SECTION - HILLTOP LANE**

Sta 5+77.04 to 11+67.04  
 NO SCALE

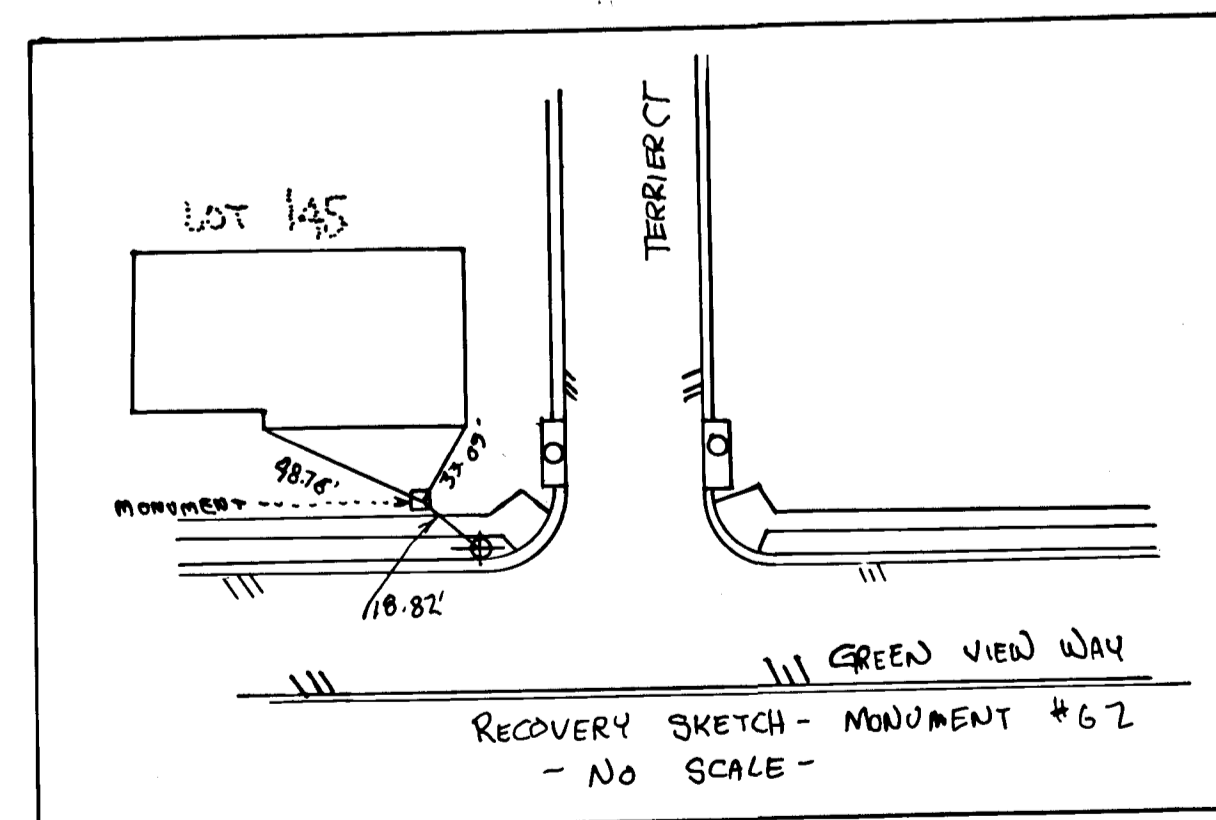


RECOVERY SKETCH - MONUMENT # 61  
 - NO SCALE -

Bituminous Conc. Surface	1 1/2"
Bituminous Conc. Base	2 1/2"
PRIME	
8" Crusher Run Base (Placed in 2 Courses) or 6" Dense Graded Stabilized Appropriate Base Course	8" or 6"

**ALTERNATE PAVING SECTION FOR PUBLIC ROADS**

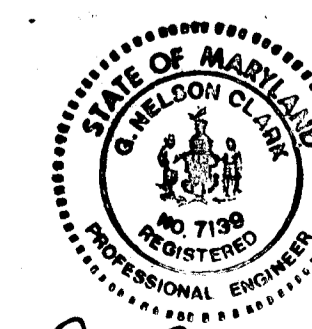
NO SCALE



RECOVERY SKETCH - MONUMENT # 62  
 - NO SCALE -

APPROVED: Department of Public Works  
 William E. P... 8-23-84  
 Chief, Bureau of Engineering Date  
 APPROVED: Howard County Office of Planning and Zoning  
 ... 8-22-84  
 Chief, Division of Land Development & Zoning Administration Date

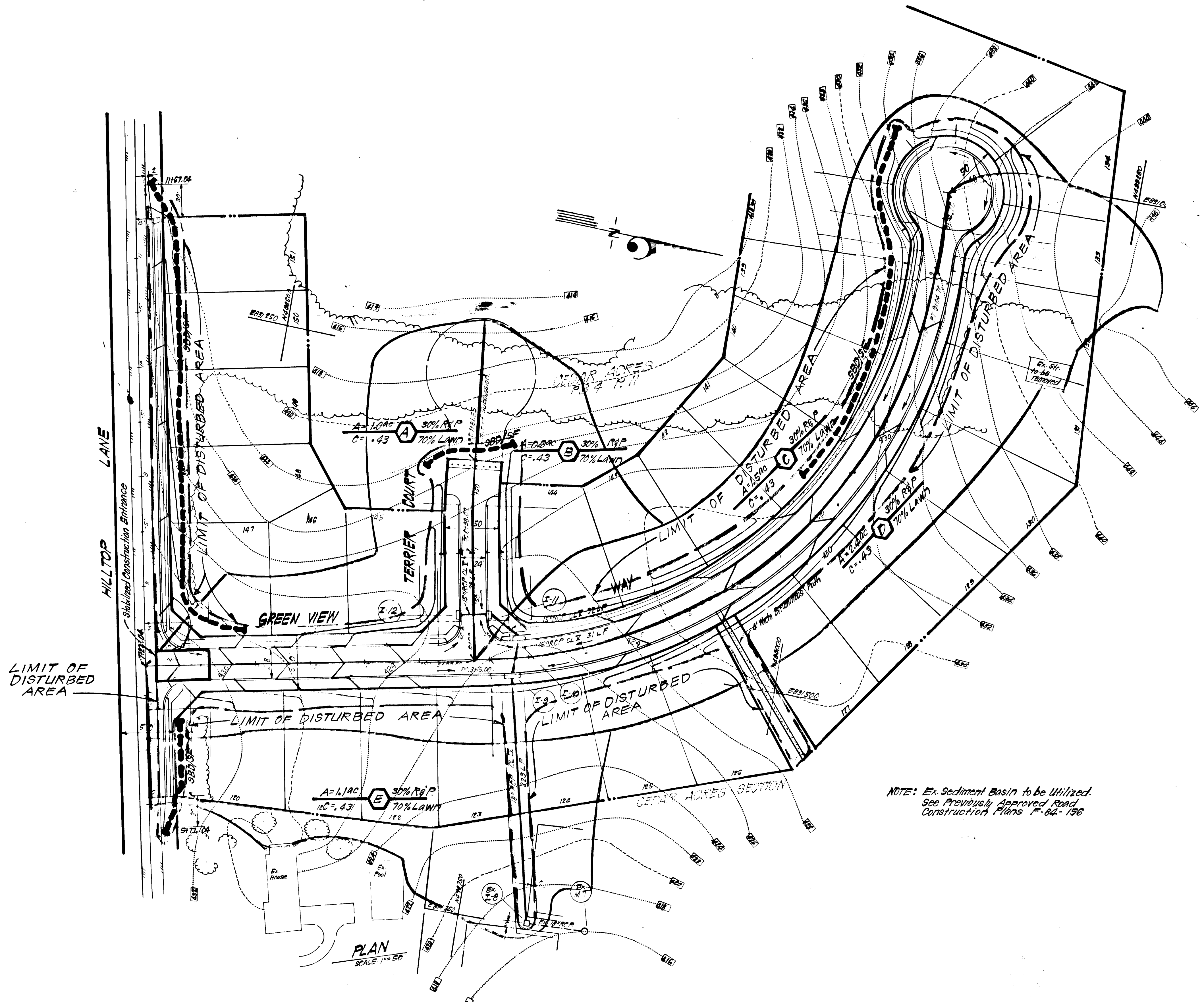
CLARK · FINEFROCK & SACKETT ENGINEERS · PLANNERS · SURVEYORS		
DESIGNED	ROAD CONSTRUCTION PLANS	SCALE
DRAWN	<b>CEDAR ACRES</b>	As Shown
CHECKED	SECTION TWO	20' = 4'
DATE	15TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND FOR: BRANTLY DEVELOPMENT CORP. 5501 TWIN KNOLLS ROAD COLUMBIA MD 21045	JOB NO. 83-114
		FILE NO. 83-114-D



W.E.P.  
 5-17-84

7-19-88 AS-BUILT

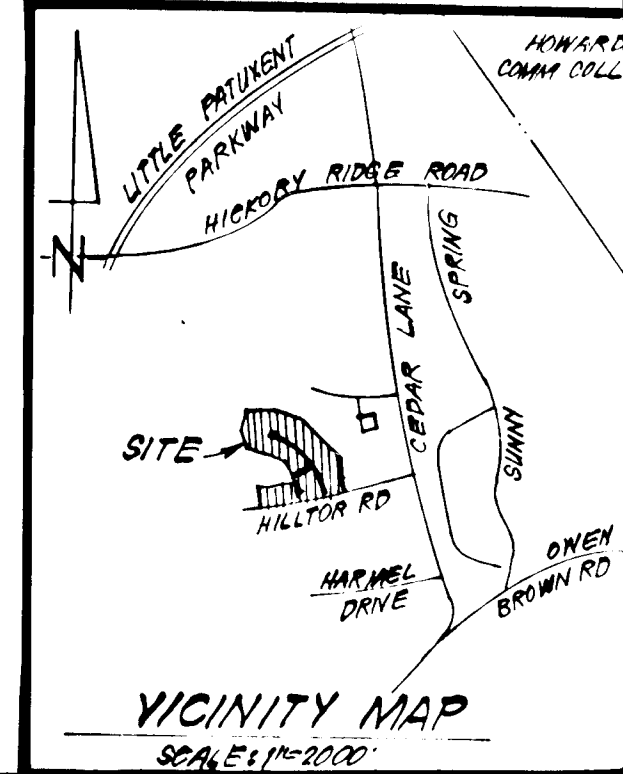
# 86



- CONSTRUCTION SEQUENCE:**
- \* 1. Install Sediment & Erosion Control Measures.
  2. Clear & Rough Grade Site.
  3. Construct Storm Drainage.
  4. Construct Utilities.
  5. Fine Grade & Construct Paving.
  6. Stabilize all disturbed areas onsite in accordance with Stds. and Specs.
  7. Flush Out storm drainage before Ex. Sediment Basin is converted to S.W.M. Pond.
  8. Remove sediment & erosion control measures after all areas draining to them have been stabilized.
- \* Note: Existing Sediment Basin as shown on plans F-84-196 to be in place and functioning prior to grading on this site.

- LEGEND:**
1. Contour Interval 2 FT.
  2. Existing Contour
  3. Proposed Contour
  4. Straw Bale Dike or Silt Fence

NOTE: Ex. Sediment Basin to be Utilized. See Previously Approved Road Construction Plans F-84-196



#86

Reviewed for Howard S.C.D.  
 Name  
 Signature Robert W. Ziehm Date 8-22-84  
 U.S. Soil Conservation Service  
 THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

**DEVELOPER'S/BUILDER'S CERTIFICATE**  
 "I hereby certify that all development and construction will be done according to this plan of development and plan for erosion and sediment control and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Dept. 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 or their authorized agents, as are deemed necessary."  
 Signature of Developer/Builder Robert W. Ziehm Date 8-22-84

**ENGINEER'S CERTIFICATE**  
 I hereby certify that this plan for Erosion and Sediment Control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.  
 Signature of Engineer Robert W. Ziehm Date 8-22-84



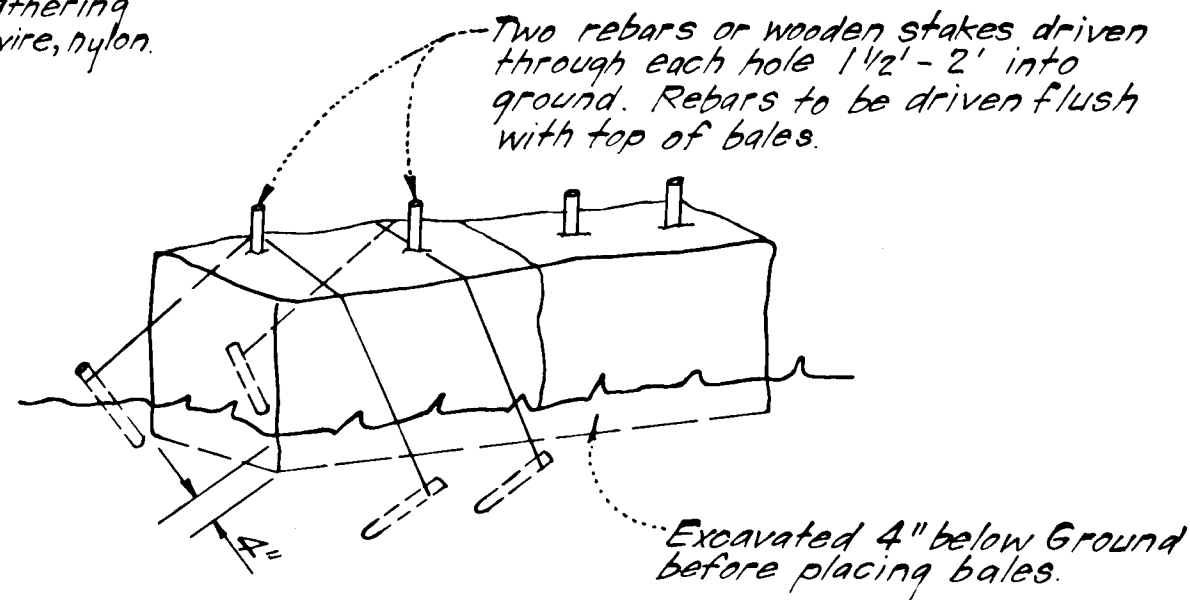
APPROVED: DEPARTMENT OF PUBLIC WORKS		8-23-84	
Robert W. Ziehm Chief, Bureau of Engineering		Date	
APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING		8-22-84	
Robert W. Ziehm Chief, Division of Land Development & Zoning Administration		Date	
<b>CLARK • FINEFROCK &amp; SACKETT</b> ENGINEERS • PLANNERS • SURVEYORS			
11315 LOCKWOOD DRIVE • SILVER SPRING, MARYLAND 20904 • (301) 593-3400			
DESIGNED	JLB	SCALE	AS SHOWN
DRAWN	M/W	DRAWING	3054
CHECKED	JLS	JOB NO.	83/14
DATE	5-15-84	FILE NO.	83/14-D
ROAD CONSTRUCTION PLANS SEDIMENT & EROSION CONTROL PLAN & DRAINAGE AREA MAP <b>CEDAR ACRES</b>  SECTION TWO 6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND FOR: BRANTLY DEVELOPMENT CORP. 5501 TWINT KNOTS ROAD COLUMBIA, MD. 21045			

164-184

**GENERAL NOTES**

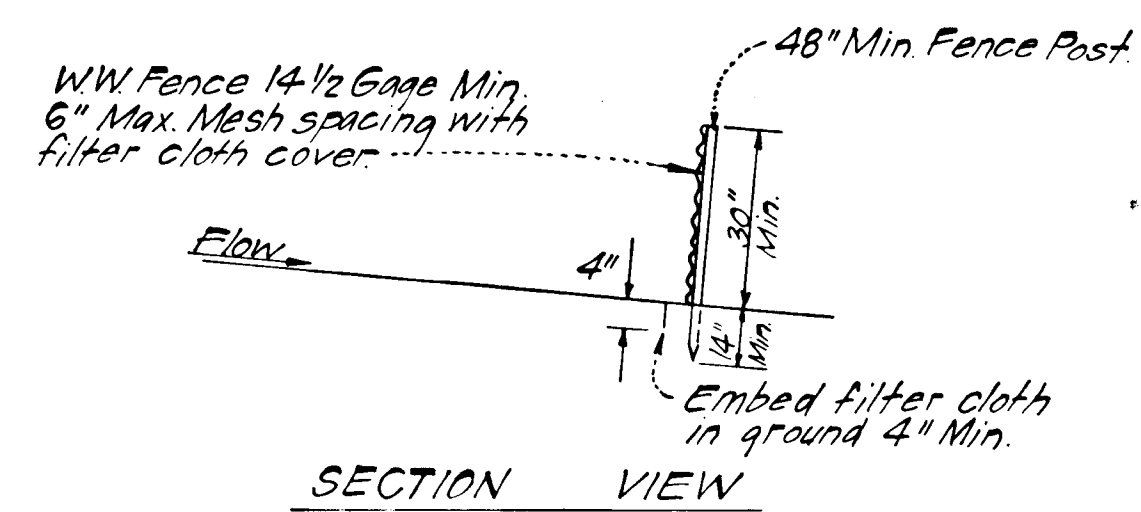
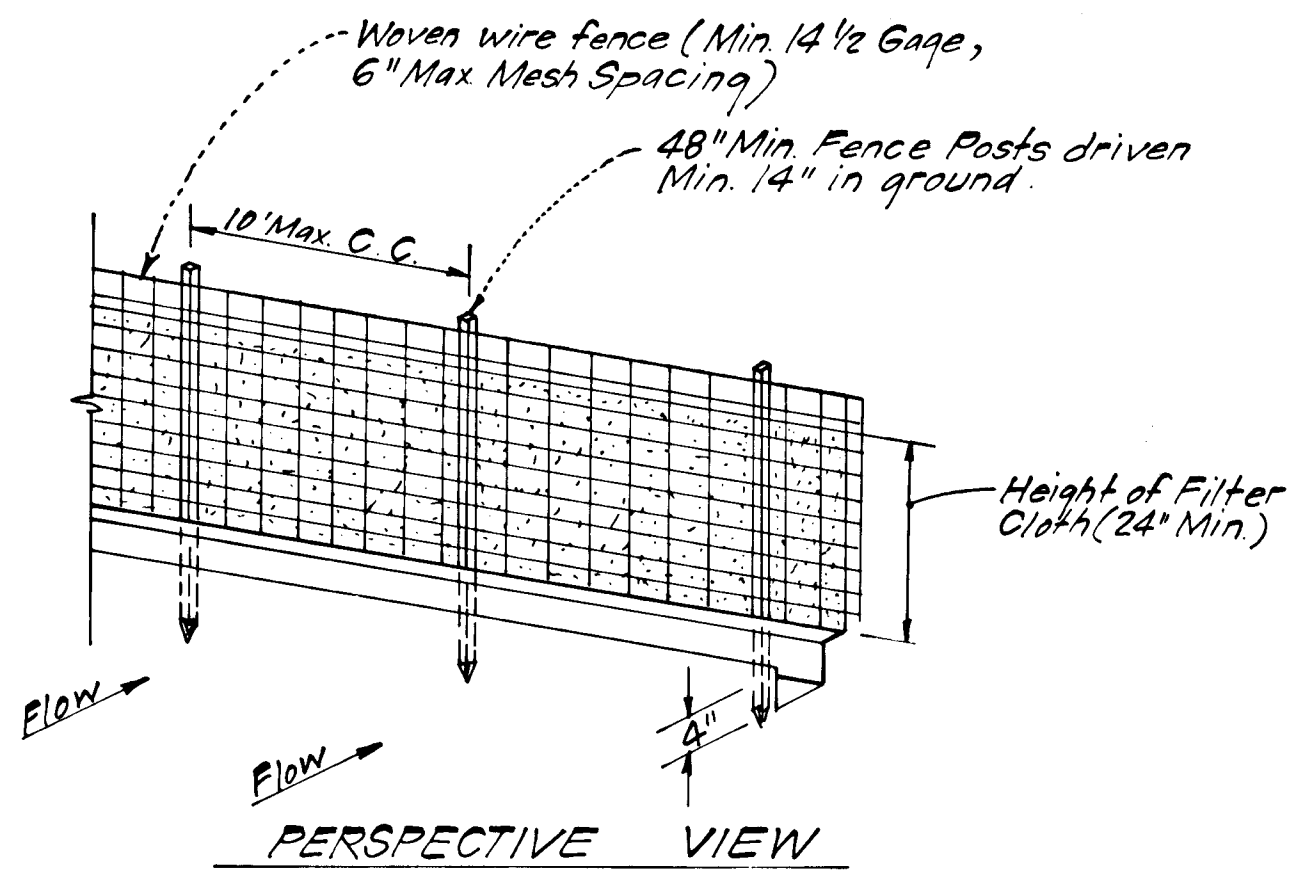
- Grading Permits shall be obtained prior to installation of Sediment Control & Grading.
- All Sediment and Erosion Control Measures will be installed and stabilized according to this plan prior to any other grading, clearing or disturbance of the existing surface of the site. See note #6 for stabilization except that the seed mixture will be annual rye applied at a rate of 1.4 lbs./1000 sf.
- Notify the Bureau of Inspections and Permits at least 24 hours before starting any work.
- All Sediment Control Practices to conform to the "Standards and Specifications for Soil Erosion and Sediment Control in Developing Areas" and shall be adjusted to meet actual field conditions.
- Stabilization of Disturbed ground to be done as soon after construction as possible.
- All disturbed areas to be stabilized in accordance with the following Specifications:
  - Seed - certified 85% germination applied at the rate of 3 lbs./1000 sf. Mixture - 40% Kentucky Blue, 20% chewing Fescue, 20% Kentucky 31 and 20% annual rye.
  - Fertilizer - 10-10-10 applied at a rate of 23 lbs./1000 sf. Ground Agricultural Lime or Dolomitic Lime applied at a rate of 30 lbs./1000 sf.
  - Mulch - Weed free grain straw applied at a rate of 70-90 lbs./1000 sf. Mulch shall be secured to the ground by any approved method i.e.; asphalt tacks, chemical binder etc.
  - All Sod used shall be Maryland State Certified.
- All structural Sediment Control Measures are to remain in place until permission for their removal has been obtained from the Bureau of Inspections and Permits.
- On-Site Inspection and Maintenance of all Sediment Control Measures including clean out of Sediment Traps and Dikes, and proper establishment of all planned vegetative measures will be the responsibility of the developer or his representative on the site, on a continuing day to day basis.
- It will be the developer's responsibility to provide additional Sediment & Erosion Control Devices to protect stabilized areas during construction.
- The Contractor shall keep all public roads free of sediment deposits left from traffic leaving construction site.
- Approval of this plan is conditional upon the approval of Sediment Control Plan for the off-site waste or borrow area prior to the import of any borrow or export of waste to or from this site.
- All pipes to be blocked at the end of each day. See detail this sheet.
- Total Amount of Straw Bales or Silt Fence shown = 950 L.F.
- SITE ANALYSIS:
  - Total Area: 8.536 Acres
  - Area to be Roofed: 0.000 Acres
  - Area to be Paved: 1.130 Acres
  - Area to be Seeded: 1.440 Acres
  - Area Undisturbed: 5.966 Acres

All bales shall be tied with non-weathering materials, i.e. wire, nylon



Note:  
1. In lieu of the use of rebars each straw bale may be fastened to ground with pegs (4 per bale and wire or nylon as shown above.)

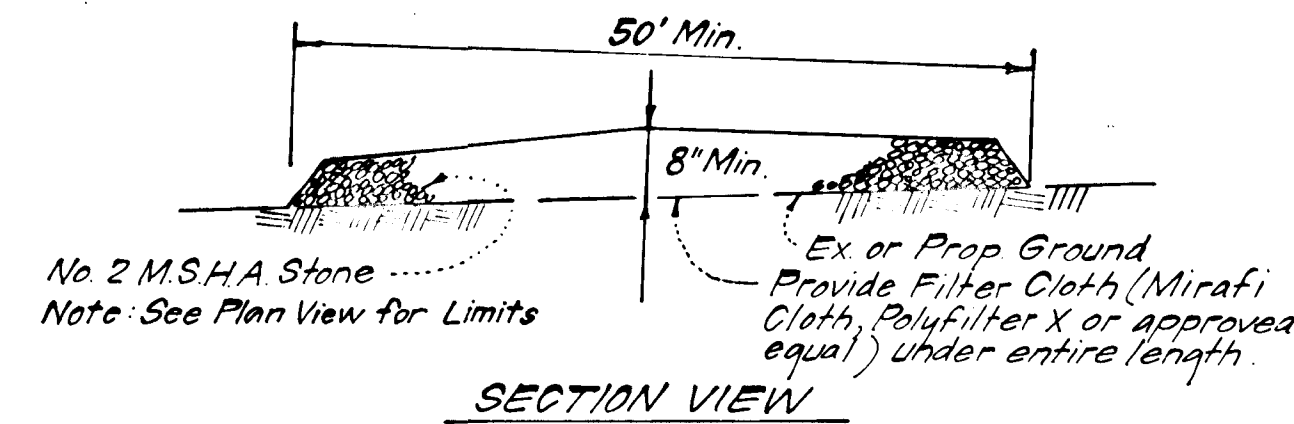
**STRAW BALE DIKE DETAIL (S.B.D.)**  
NO SCALE



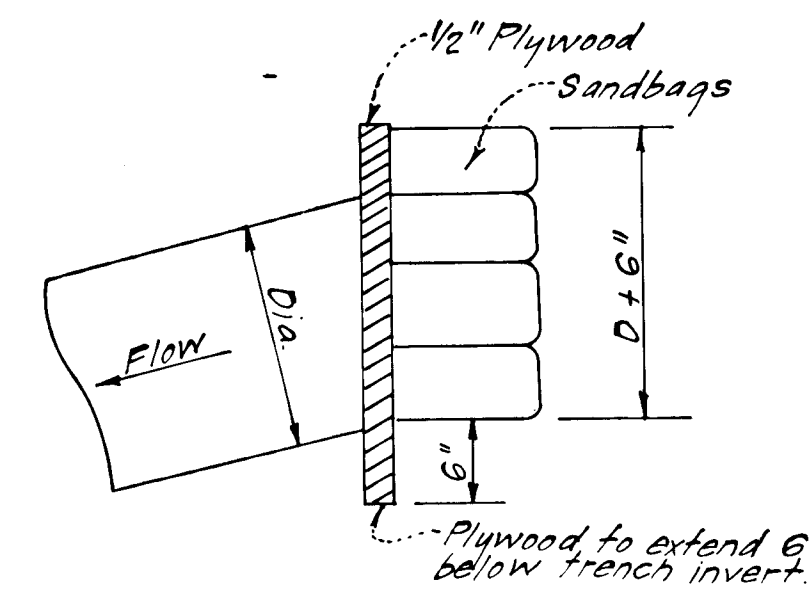
CONSTRUCTION NOTES:  
1. Woven wire fence to be fastened securely to fence posts with wire ties or staples.  
2. Filter cloth to be fastened securely to woven wire fence with wire ties spaced every 24 inches at top and mid-section.

POSTS: Steel, either T or L type or 2" Hardwood.  
FENCE: Woven wire, 1 1/2 Gage, Max 6" Mesh Opening.  
FILTER CLOTH: Filter X, Mirafi 100X, Laurel Erosion Control Cloth, Bidim, Polyfilter X or equal.

**SILT FENCE DETAIL (S.F.)**  
NO SCALE



**STABILIZED CONSTRUCTION ENTRANCE**  
NO SCALE



**PIPE BLOCKING DETAIL**  
NO SCALE

# 86

Reviewed for Howard S.C.D.  
Name  
Signature James M. [Signature] Date 8-22-84  
U.S. Soil Conservation Service

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

Robert [Signature] 8-22-84  
Approved Date

**DEVELOPER'S/OWNER'S CERTIFICATE**  
"I/We certify that all development and construction will be done according to this plan of development and plan for erosion and sediment control and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Dept. 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 or their authorized agents, as are deemed necessary."

John [Signature] 5/15/84  
Signature of Developer/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 Soil Conservation District.

G. Nelson Clark 5-17-84  
Date



APPROVED: DEPARTMENT OF PUBLIC WORKS  
[Signature] 8-23-84  
Chief, Bureau of Engineering  
APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING  
[Signature] 8-22-84  
Chief, Division of Land Development & Zoning Administration

<b>CLARK • FINEFROCK &amp; SACKETT</b> ENGINEERS • PLANNERS • SURVEYORS 1131E LOCKWOOD DRIVE • SILVER SPRING, MARYLAND 20904 • (301) 593-3400		
DESIGNED JLS	ROAD CONSTRUCTION PLANS SEDIMENT & EROSION CONTROL DETAILS <b>CEDAR ACRES</b>	SCALE AS SHOWN
DRAWN N/W		4 OF 4
CHECKED JLS	SECTION TWO 5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND	JOB NO. 83-114
DATE 5-15-84	FOR: BRANTLY DEVELOPMENT CORP 5507 WINDYBUSH ROAD COLUMBIA, MD 21045	FILE NO. 83-114-D