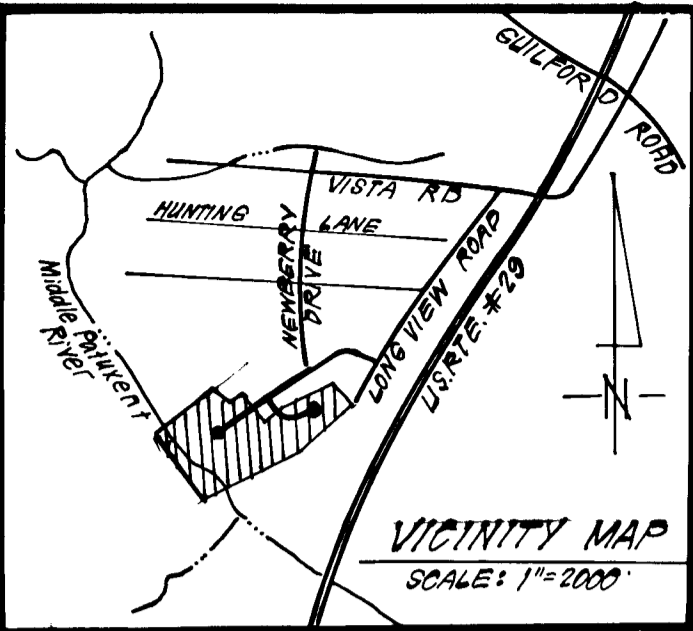


- STREET TREE NOTES:**
- Final location of Tree Streets may be shifted in the field to accommodate field conditions.
 - Planting Procedures to be in accordance with Landscape Specs. for Baltimore - Washington Met. Areas by LCAMW.
 - Street Tree Planting Program shall be in accordance with Section 16.131 of the Ho. Co. Subdivision Regulations.

NO.	REVISION	DATE
1	Revised Curb & Gutter at Inlet 2.	7-11-85



- GENERAL NOTES:**
- All construction shall be 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 R/W limits shall be in accordance with Howard Co. Design Manual Vol. II.
 - Information concerning underground utilities was obtained from available reports, 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.
 - Sag and Crest Vertical Curves were designed in accordance with "A Policy on Geometric Design of Rural Highways," 1965, by AASHTO.
 - Provide concrete sidewalk Ramps in curbs, where shown in plan. (Max. 12:1 slope) See Ho. Co. Std. Sidewalk Ramps, Type A, R-2-D.
 - Design Speed: 30 mph. Zoning: R-20.
 - Class C Trench Bedding to be used for all Storm Drain Construction unless otherwise indicated. (Ho. Co. Std. G-2-D Trench in Earth)
 - Existing Sewer Manholes to be adjusted as necessary to meet proposed paving.

DEVELOPER'S BUILDER'S CERTIFICATE

I hereby 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 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: *Sheldon S. Hill* Date: 3/2/84

Reviewed for: Howard S.C.D.

Name: Sheldon S. Hill Date: 6-21-84

Signature: *Sheldon S. Hill* Date: 6-21-84

U.S. Soil Conservation Service

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

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: *G. Nelson Clark* Date: 3-5-84



APPROVED: Department of Public Works

Signature: *Sheldon S. Hill* Date: 6-27-84

Chief, Bureau of Engineering

APPROVED: Howard County Office of Planning & Zoning

Signature: *Sheldon S. Hill* Date: 6-26-84

Chief, Division of Land Development & Zoning Administration

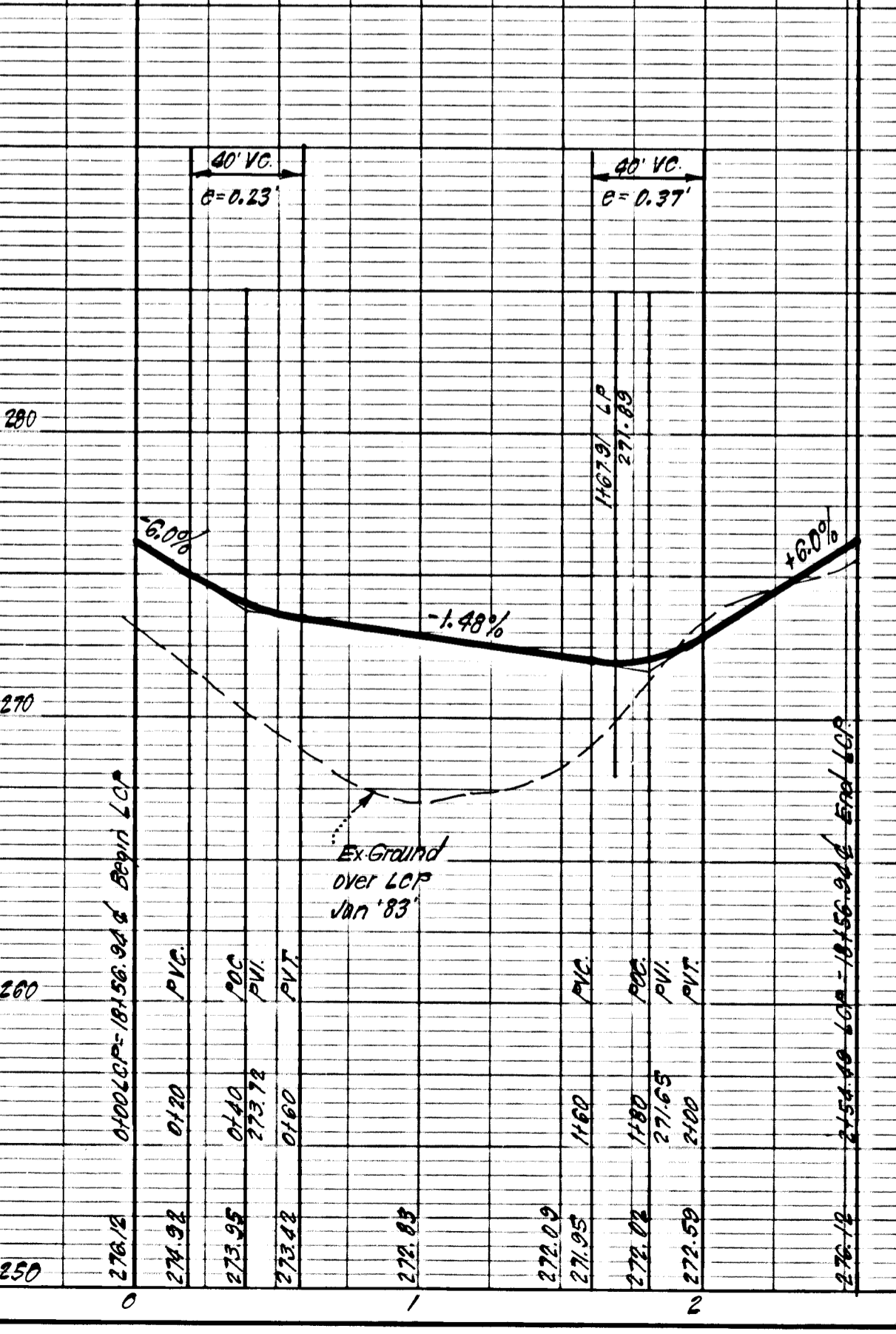
CLARK • FINEFROCK & SACKETT
ENGINEERS • PLANNERS • SURVEYORS

11315 LOCKWOOD DRIVE • SILVER SPRING, MARYLAND 20904 • (301) 593-3400

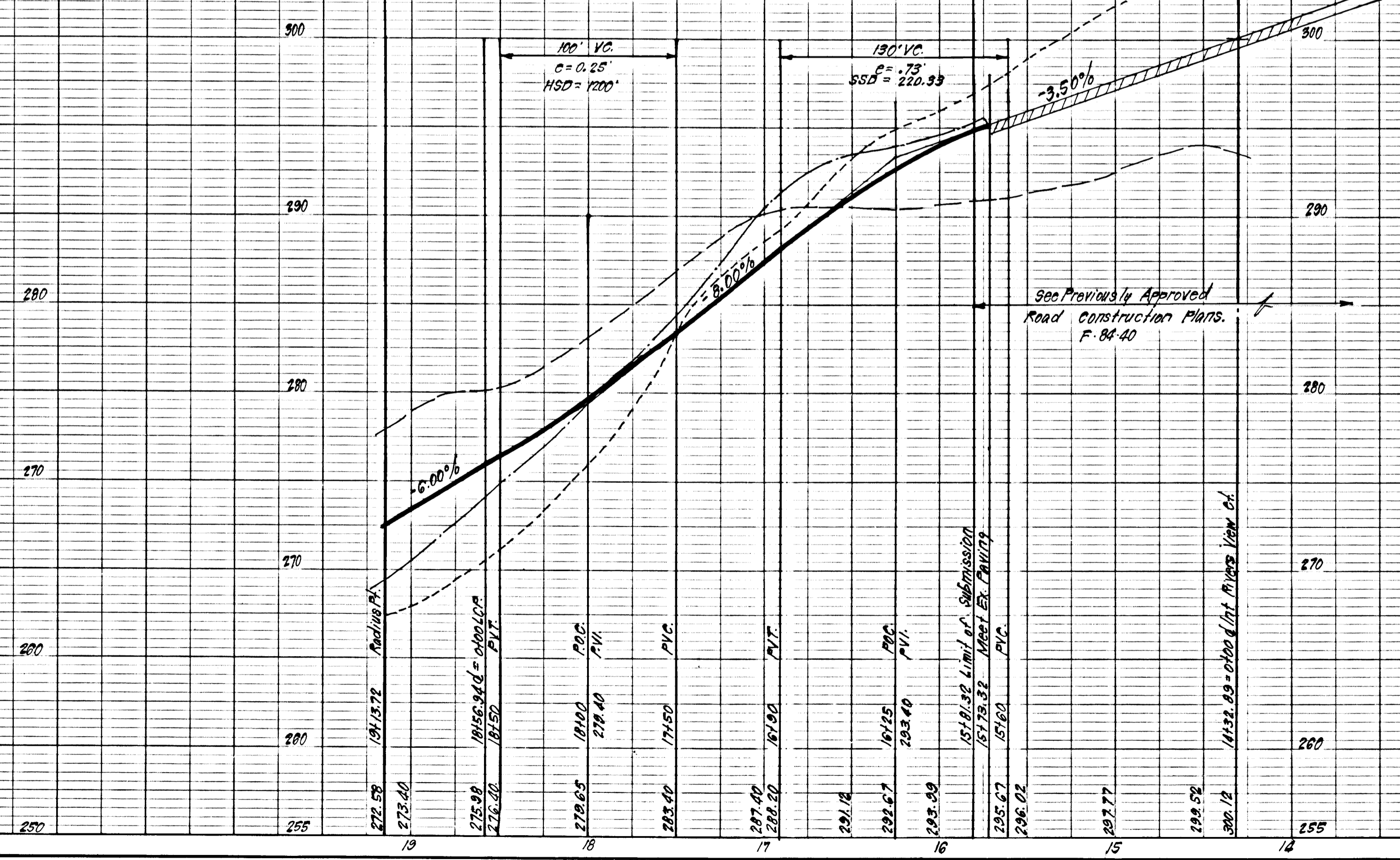
DESIGNED	ROAD CONSTRUCTION PLAN RIVERS EDGE ROAD	SCALE	As Shown
DRAWN	RIVERSIDE	DRAWING	10' = 5'
CHECKED	SECTION 1 AREA 3 5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND	JOB NO.	82-027
DATE	FOR: STANLEY HALL COMMUNITIES, INC. 9305 Annapolis Road, Landham, Md. 20681	FILE NO.	82-027-D

#981

LINEAR CURB PROFILE (L.C.P.)

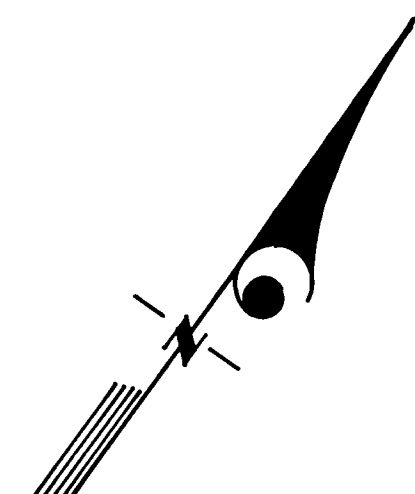


PROFILE - RIVERS EDGE ROAD



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

PROFILE LEGEND:
— Profile Grade Line
- - - Existing G.
x B.R.L. (L.I.)
x B.R.L. (R.I.)
x Jan 1983

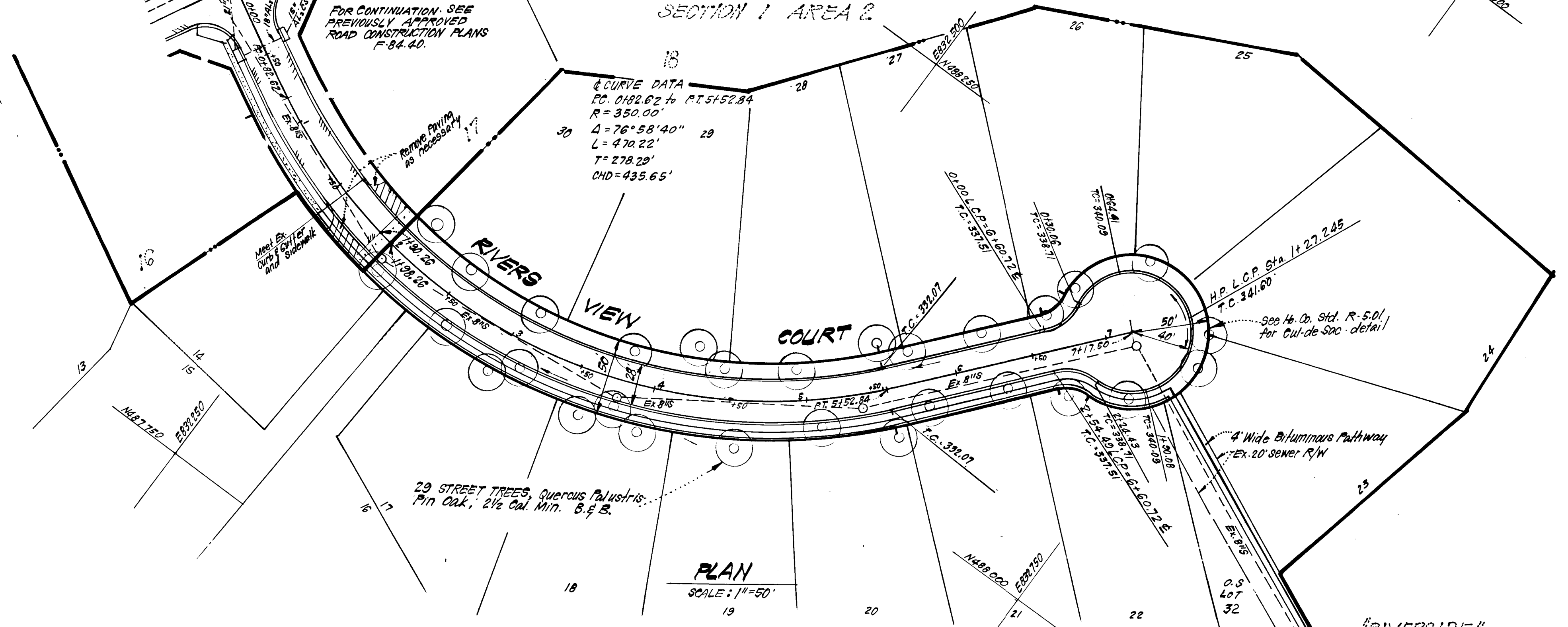


RIVERS EDGE ROAD

"RIVERSIDE"
SECTION 1 AREA 2

FOR CONTINUATION, SEE
PREVIOUSLY APPROVED
ROAD CONSTRUCTION PLANS
F-84-40.

CURVE DATA
P.C. 0182.62 + 0.14
R = 350.00'
Δ = 76° 58' 40"
L = 470.22'
T = 278.29'
OHD = 435.65'



PLAN
SCALE: 1" = 50'

29 STREET TREES, Quercus palustris:
7 1/2" Cal., 2 1/2 Cal. Min. B. & B.

4' Wide Bituminous Pathway
Ex. 20' Sewer R/W

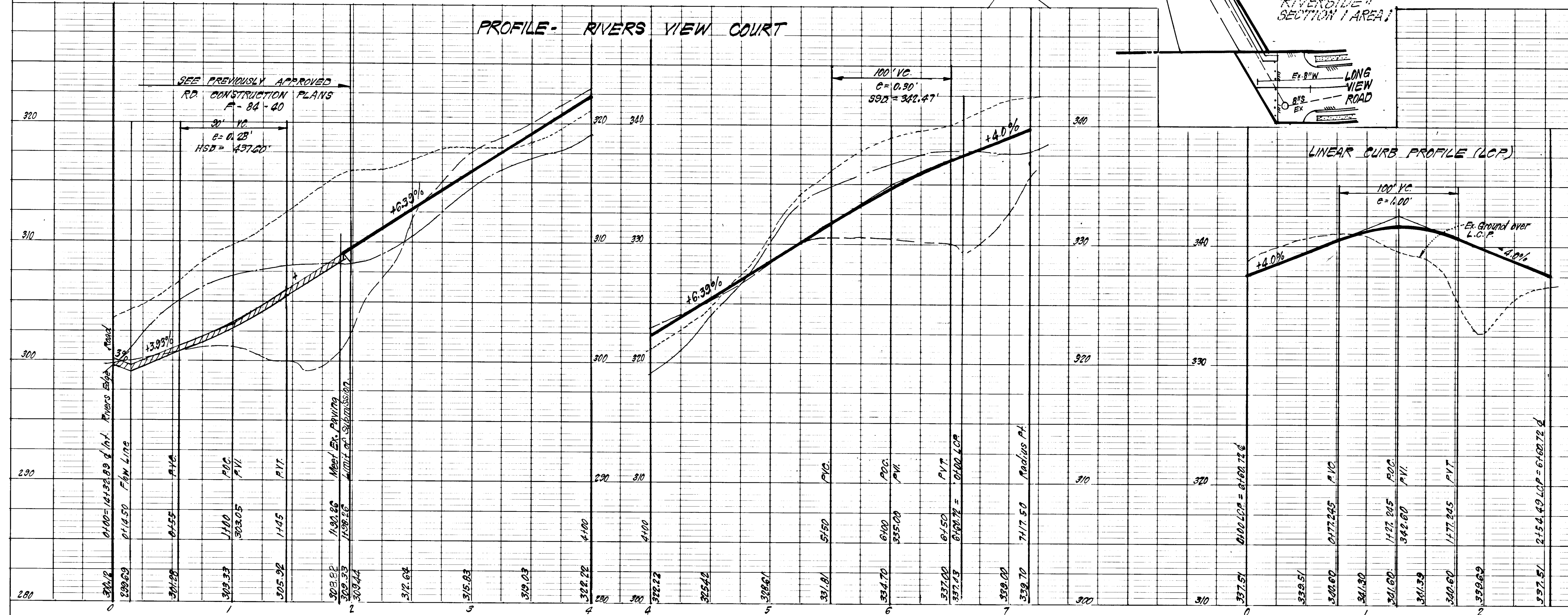
"RIVERSIDE"
SECTION 1 AREA 3



John C. ...
3-5-84

APPROVED: Department of Public Works		
John C. ... Chief, Bureau of Engineering	3-1-84	Date
APPROVED: Howard County Office of Planning & Zoning		
John M. ... Chief, Division of Land Development & Zoning Administration	6-26-84	Date
CLARK · FINEFROCK & SACKETT ENGINEERS · PLANNERS · SURVEYORS		
11315 LOCKWOOD DRIVE · SILVER SPRING, MARYLAND 20904 · (301) 595-3400		
DESIGNED	ROAD CONSTRUCTION PLAN RIVERS VIEW COURT	SCALE As Shown
DRAWN	RIVERSIDE	DRAWING 2 OF 5
CHECKED	SECTION 1 AREA 3 5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND	JOB NO. 82-027
DATE	FOR: STANLEY HALL COMMUNITIES, INC. 9300 Annapolis Road Lanham, Md. 20801	FILE NO. 82-027-D
3-1-84		

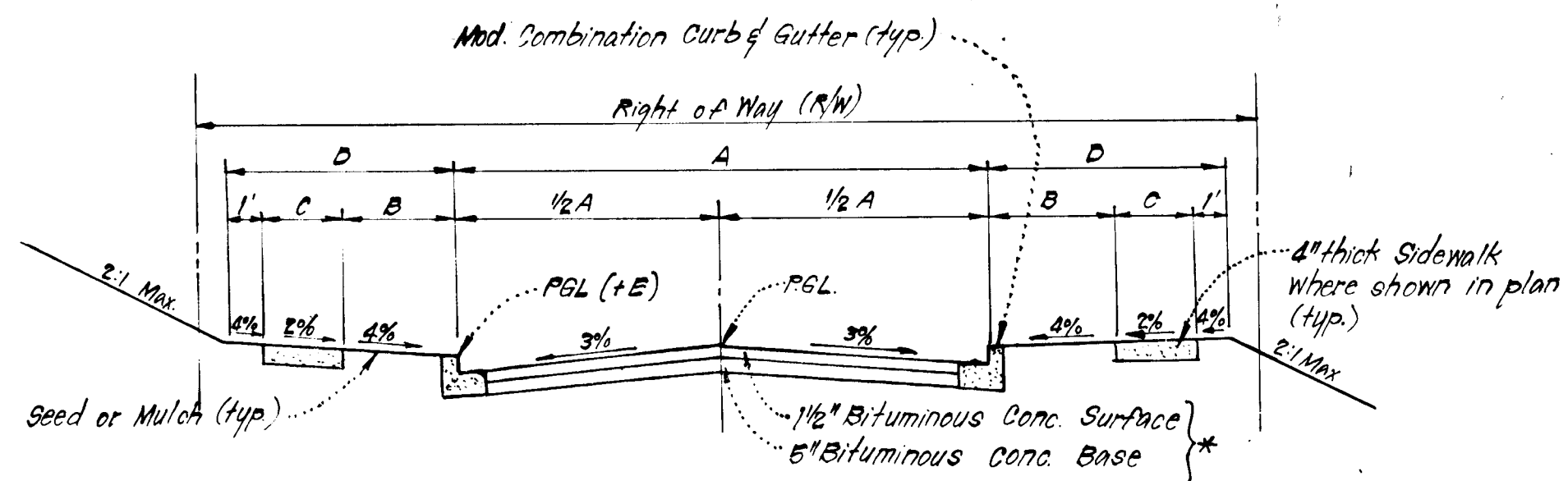
PROFILE - RIVERS VIEW COURT



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

PROFILE LEGEND
Profile Grade Line
*Existing
*B.R.L. (R/L)
*B.R.L. (L/R)
* January 1983

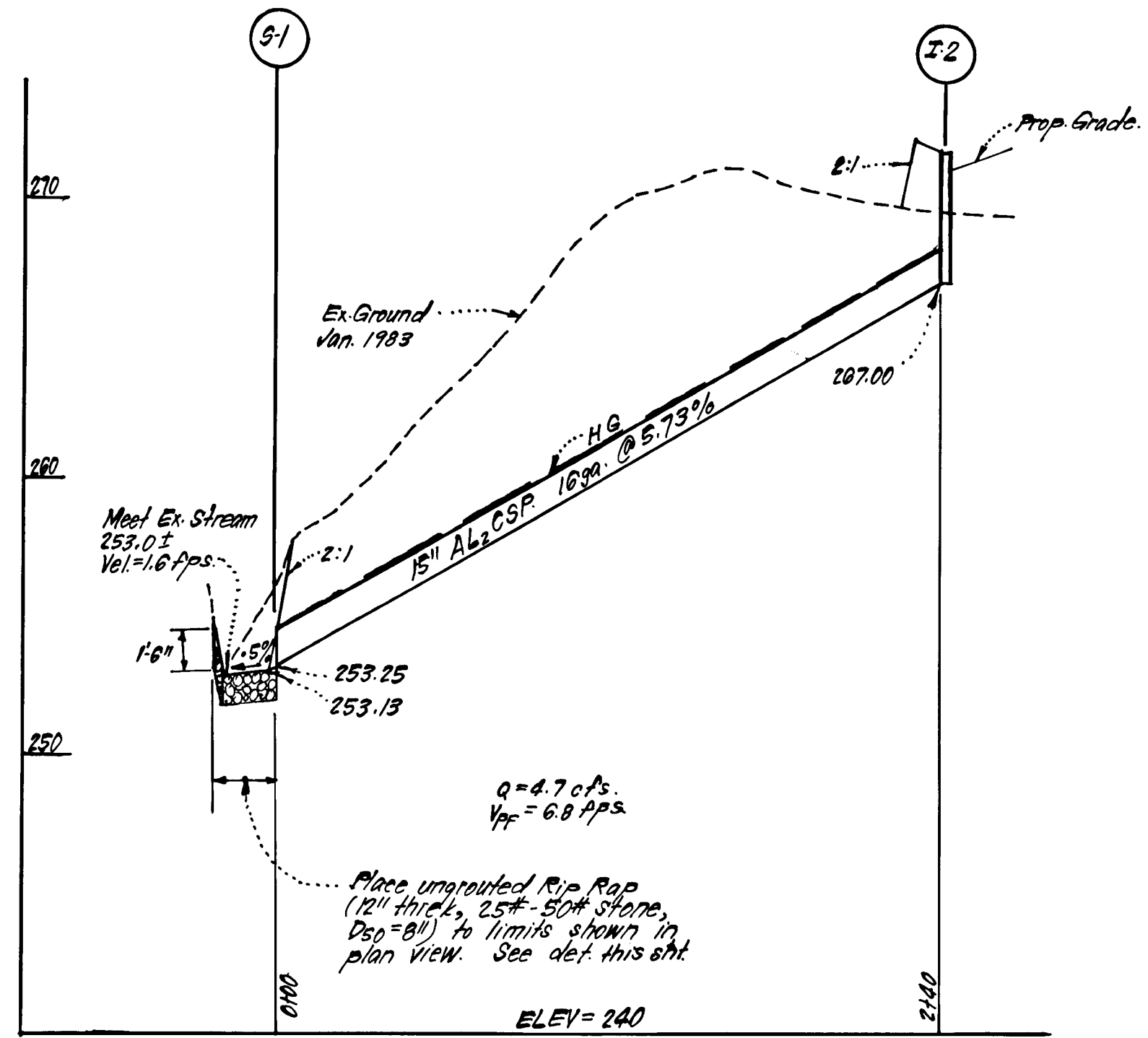
#981



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

NO SCALE

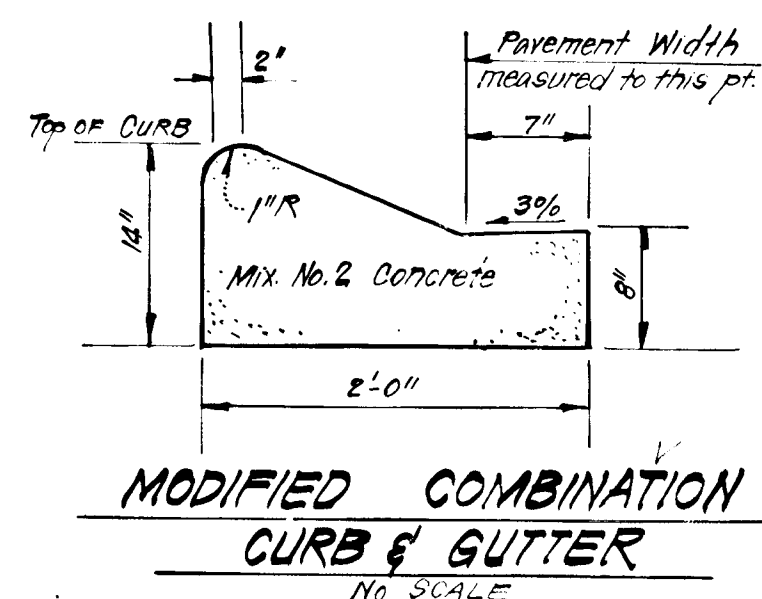
STREET NAME & STATION	TYPE OF TRAFFIC	A	B	C	D	R/W	ZONING	DESIGN SPEED	E
RIVERS EDGE ROAD 157.75 to 181.75	CUL-DE-SAC	28'	4'	4'	9'	50'	R-20	30	1.08
RIVERS VIEW COURT 140.25 to 147.50	CUL-DE-SAC	28'	4'	4'	9'	50'	R-20	30	1.08



PROFILE
 SCALES: HORIZ. 1"=50'
 VERT. 1"=5'

STRUCTURE SCHEDULE									
No.	TYPE	INV. IN	INV. OUT	TOP ELEVATION		REMARKS	LOCATION		
				UPPER	LOWER				
B-1	Metal End Section	253.25	253.13	-	-	Ho. Co. Std. SD. 5-61	DI. = 15"	See Plan	
I-2	A-5 Inlet	-	267.00	271.89	-	Ho. Co. Std. SD. 4-01	W=2'-6"	Dist. LCP. Sht. 1467-91	

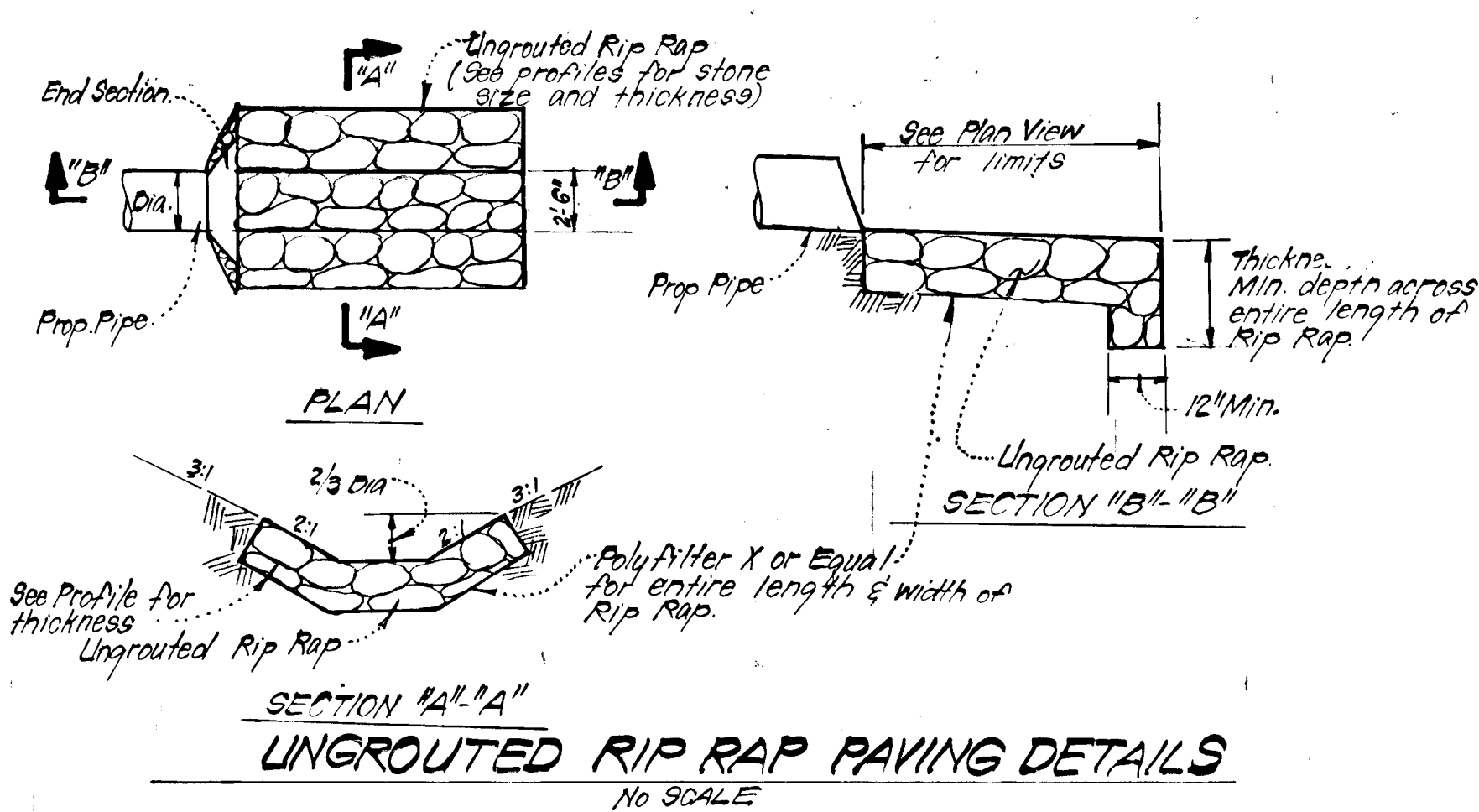
PIPE SCHEDULE		
SIZE	TYPE	LENGTH
15"	AL ₂ O ₃ CSP	16 pipe 240 LF



MODIFIED COMBINATION CURB & GUTTER
 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 Aggregate Base Course	8" or 6"

ALTERNATE PAVING SECTION FOR PUBLIC ROADS
 NO SCALE



UNROUTED RIP RAP PAVING DETAILS
 NO SCALE

NO.	REVISION	DATE
1	Removed Standard 7" Combination Curb & Gutter Detail.	7-11-85

#981

DEVELOPER'S BUILDERS CERTIFICATE
 "I/we certify that all development and construction will be done according to the 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."
 Stanley S. Hogg 9/7/84

ENGINEERS 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.
 J. H. Clark 3-5-84



Reviewed for Howard S.C.D. Name: Stanley S. Hogg, Date: 6-21-84, Signature: Stanley S. Hogg, U.S. Soil Conservation Service

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

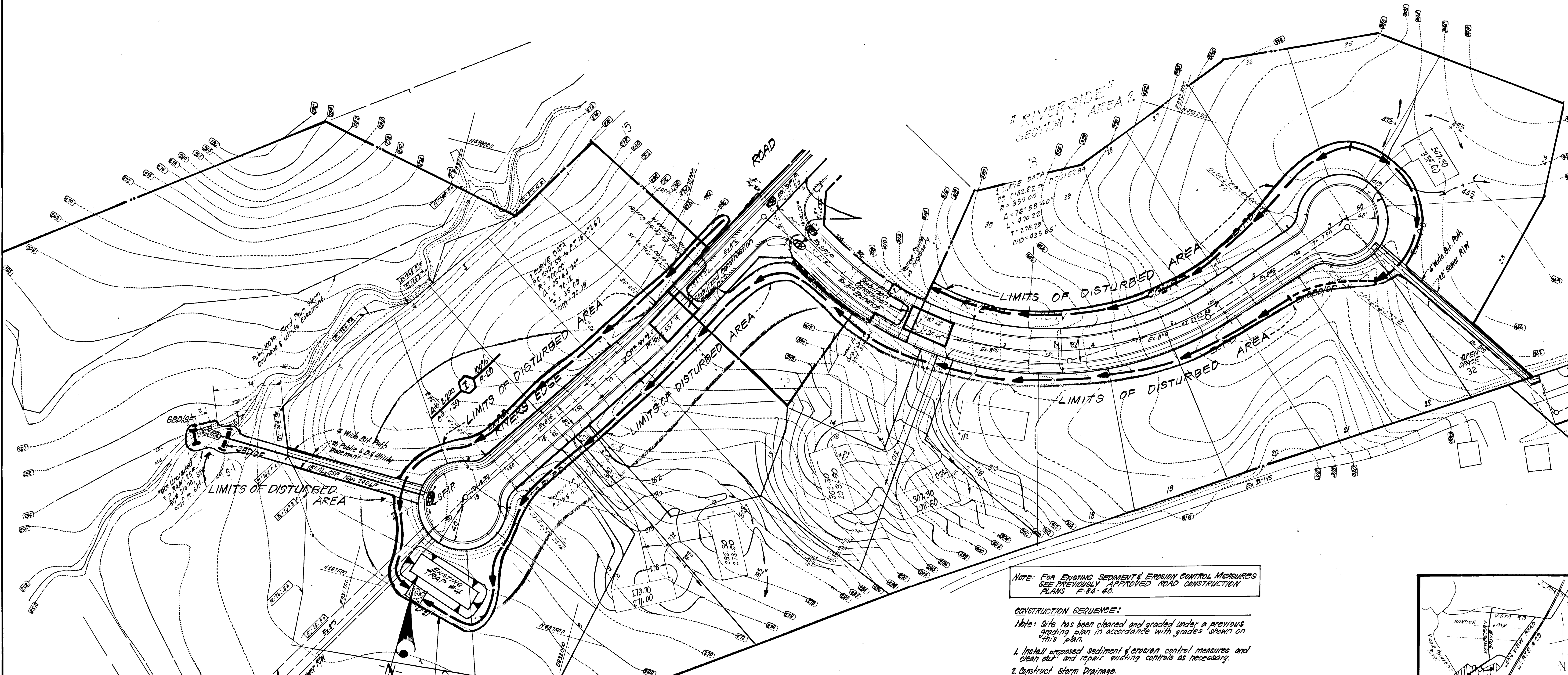
Approved: Stanley S. Hogg, Date: 6/21/84

APPROVED: Department of Public Works
 Division of Engineering & Planning
 APPROVED: Howard County Office of Planning and Zoning
 Division of Land Development & Zoning Administration

CLARK · FINEFROCK & SACKETT ENGINEERS · PLANNERS · SURVEYORS 11314 LOCKWOOD DRIVE · SILVER SPRING, MARYLAND 20904 (301) 593-1400		
DESIGNED	ROAD CONSTRUCTION PLANS STORM DRAINAGE AND PAVING DETAILS	SCALE
DRAWN		As Shown
CHECKED		30 F 5
DATE	SECTION 1 AREA 3 5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND FOR: STANLEY HALL COMMUNITIES, INC. 1300 Annapolis Road Cantons, Md. 20801	JOB NO. 82-027 FILE NO. 82-027-D

Date	Revision
8-1-84	Added SBD/SF

- LEGEND:**
- Existing Contour
 - Proposed Storm Drain
 - Existing Perimeter Dike
 - Existing Stone Filter Inlet Protection
 - Proposed Stone Filter Inlet Protection
 - Existing Straw Bale Dike/Silt Fence
 - Straw Bale Dike/Silt Fence

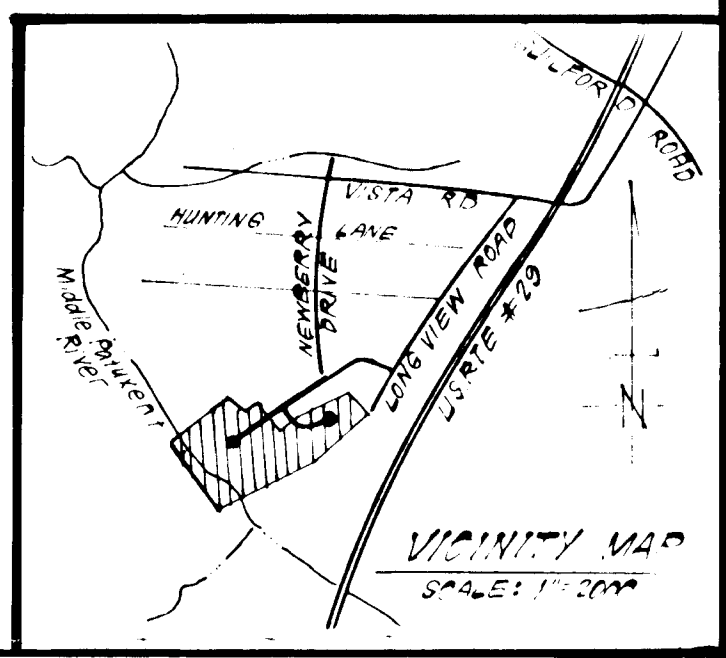


NOTE: FOR EXISTING SEDIMENT & EROSION CONTROL MEASURES SEE PREVIOUSLY APPROVED ROAD CONSTRUCTION PLANS F-84-60.

CONSTRUCTION SEQUENCE:

- Note: Site has been cleared and graded under a previous grading plan in accordance with grades shown on this plan.
1. Install proposed sediment & erosion control measures and clean out and repair existing controls as necessary.
 2. Construct Storm Drainage.
 3. Construct Water Main (Sewer Construction Complete)
 4. Fine grade and construct paving, sidewalk, curb & gutter, & pathways.
 5. Stabilize remainder of disturbed areas on-site in accordance with bids and specs.
 6. Remove sediment & Erosion Control Measures after all areas draining to them are stabilized.

Note: Grading on Lots 10, 11, 15, 16 & 24 is possible future grading and not to be done by these plans.



EXISTING SPECIAL 30. ST. TRAP # 4
 DA = 5.9 Acres
 Storage Required: 10620 cu ft
 Storage Provided: 10620 cu ft
 Top of Stone Crest: 265.5
 Bottom Elev: 261.5
 Depth: 4'
 Bottom Dimensions: 80.5' x 22'

Reviewed for Howard County S.C.D.
 Name: _____
 Signature: _____ Date: 6-21-84
 U.S. Soil Conservation Service

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

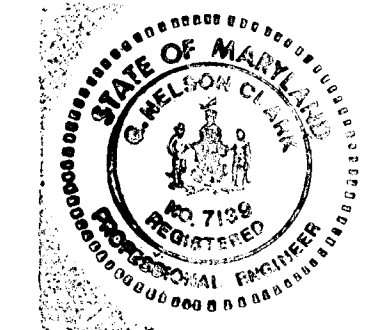
Signature: _____ Date: 6/21/84
 Approved

DEVELOPER'S/BUILDER'S CERTIFICATE
 "I/we certify that all development and construction will be done according to the approved plan 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: _____ Date: 3/2/84
 Signature of Developer/Builder

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: _____ Date: 3-5-84
 Signature of Engineer



APPROVED: Department of Public Works
 Signature: _____ Date: 6-21-84
 Chief, Bureau of Engineering & Control

APPROVED: Howard County Office of Planning & Zoning
 Signature: _____ Date: 6-26-84
 Chief, Division of Land Development & Zoning Administration

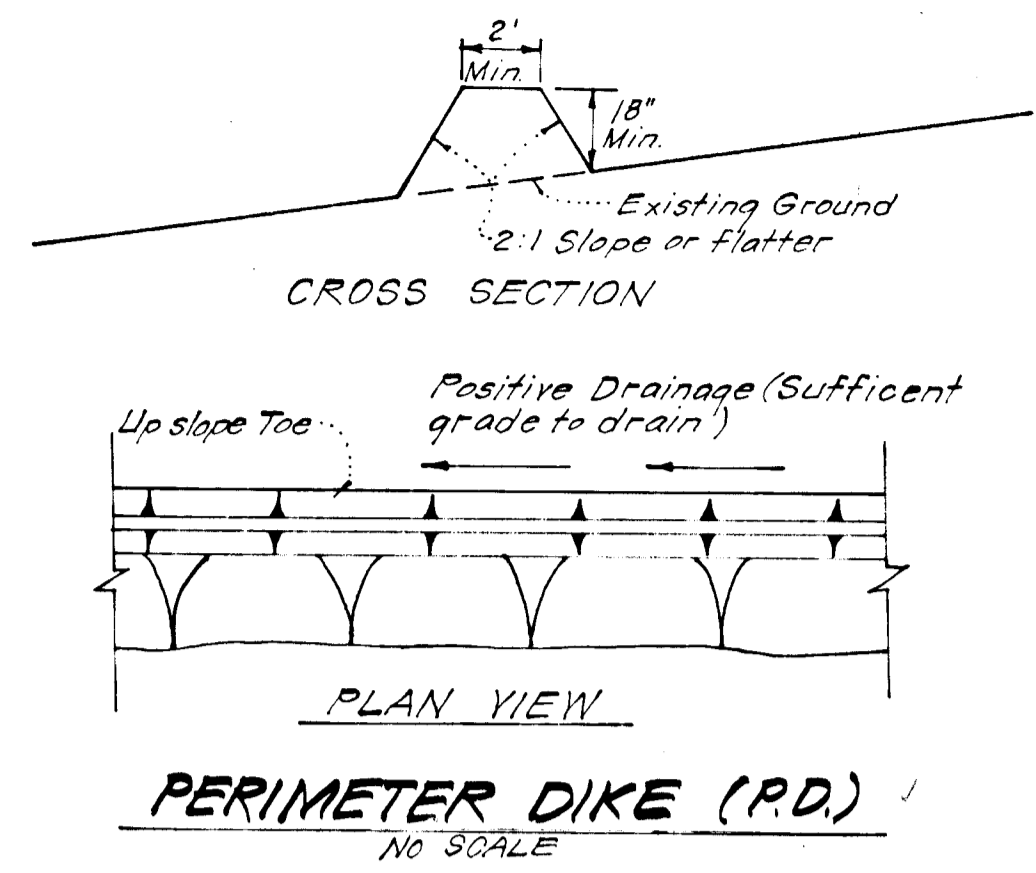
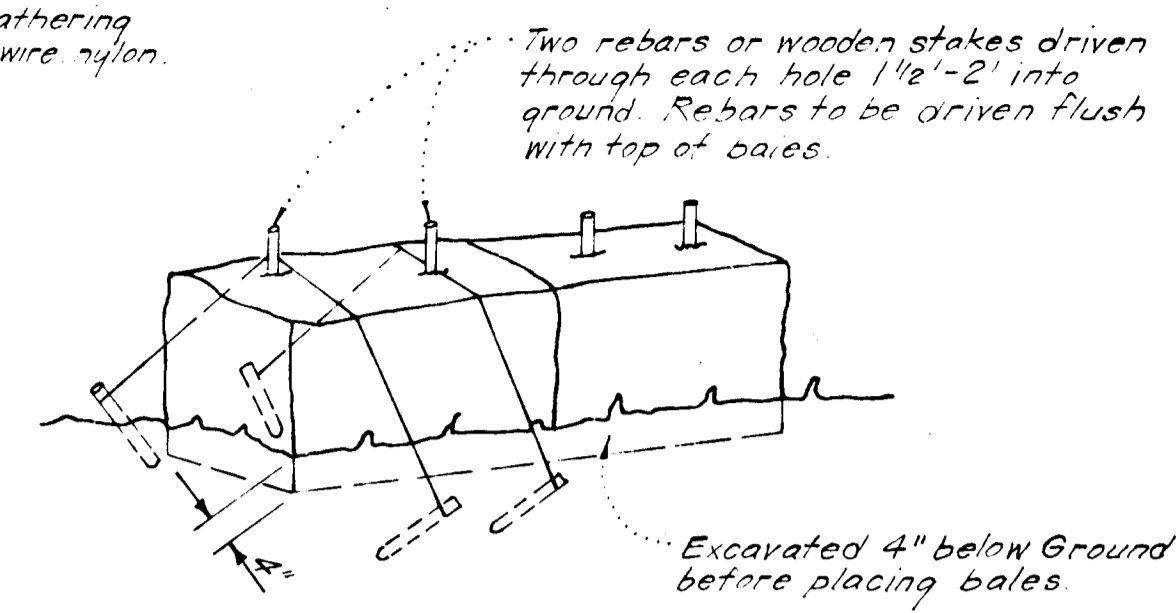
CLARK • FINEFROCK & SACKETT ENGINEERS • PLANNERS • SURVEYORS 11315 LOCKWOOD DRIVE • SILVER SPRING, MARYLAND 20904 • (301) 593-3400		DESIGNED	VLS	SCALE	1"=50'
		DRAWN	KM	DRAWING	4 OF 5
CHECKED	VLS	JOB NO.	82-027	FILE NO.	82-027-D
DATE	3-1-84	ROAD CONSTRUCTION PLANS SEDIMENT & EROSION CONTROL PLANS DRAINAGE AREA MAP RIVERSIDE SECTION 1 AREA 3 5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND FOR STANLEY HALL COMMUNITIES, INC. 9300 ANNAPOLIS ROAD ANNAPOLIS, MD			

981

GENERAL NOTES

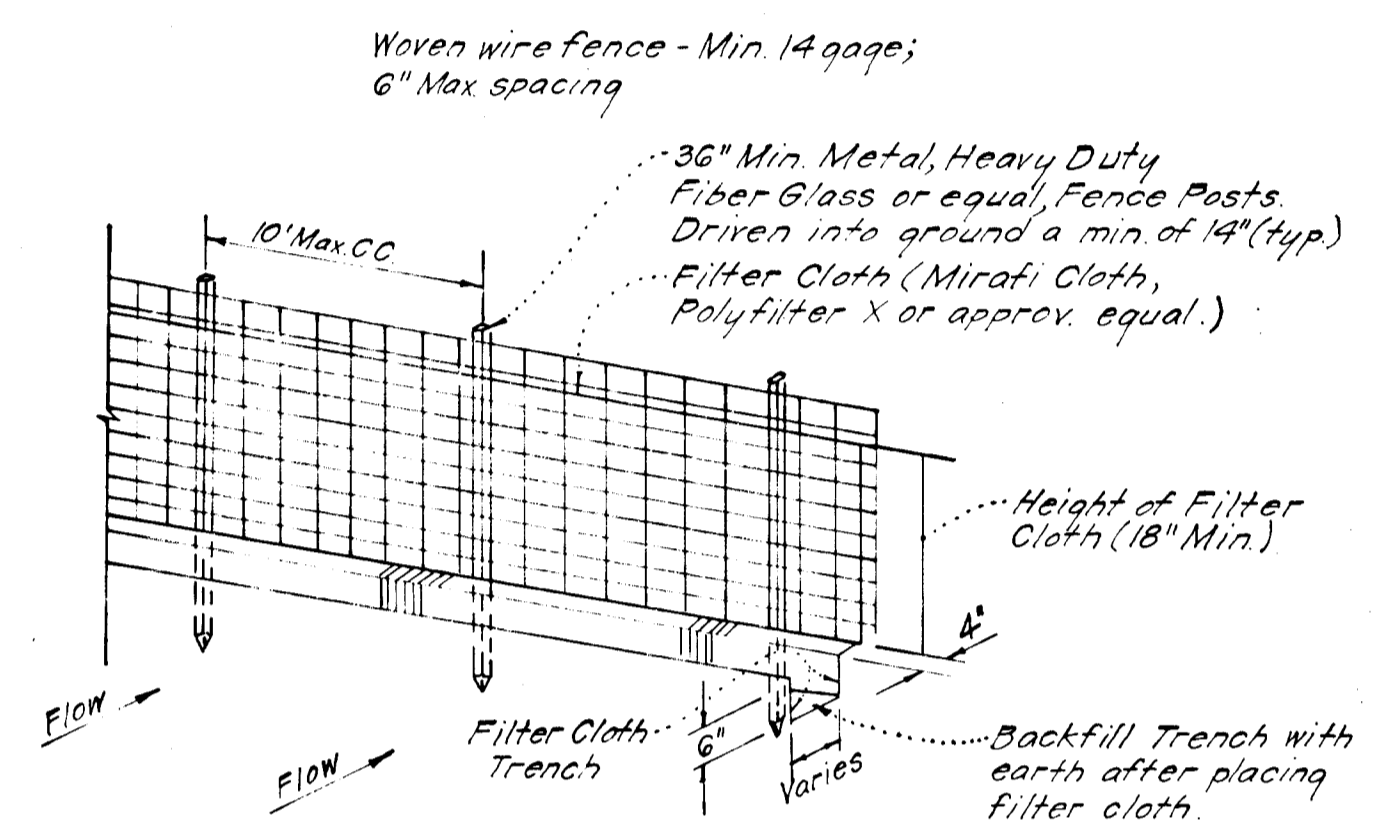
- Grading Permits shall be obtained prior to installation of Sediment Control & Grading
- All Sediment and Erosion Control Measures will be installed and stabilized according to this plan prior to any other grading, clearing or disturbance of the existing surface of the site. See note #6 for stabilization except that the seed mixture will be annual rye applied at a rate of 14 lbs/1000 sf.
- Notify the Bureau of Inspections and Permits at least 24 hrs. 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 area 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 90 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 developers 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 = 20 L.F.
- SITE ANALYSIS:
 - Total Area: 2.531 Acres
 - Area to be Roofed: None Acres
 - Area to be Paved: 1.070 Acres
 - Area to be Seeded: 1.230 Acres
 - Area Undisturbed: 19.231 Acres

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



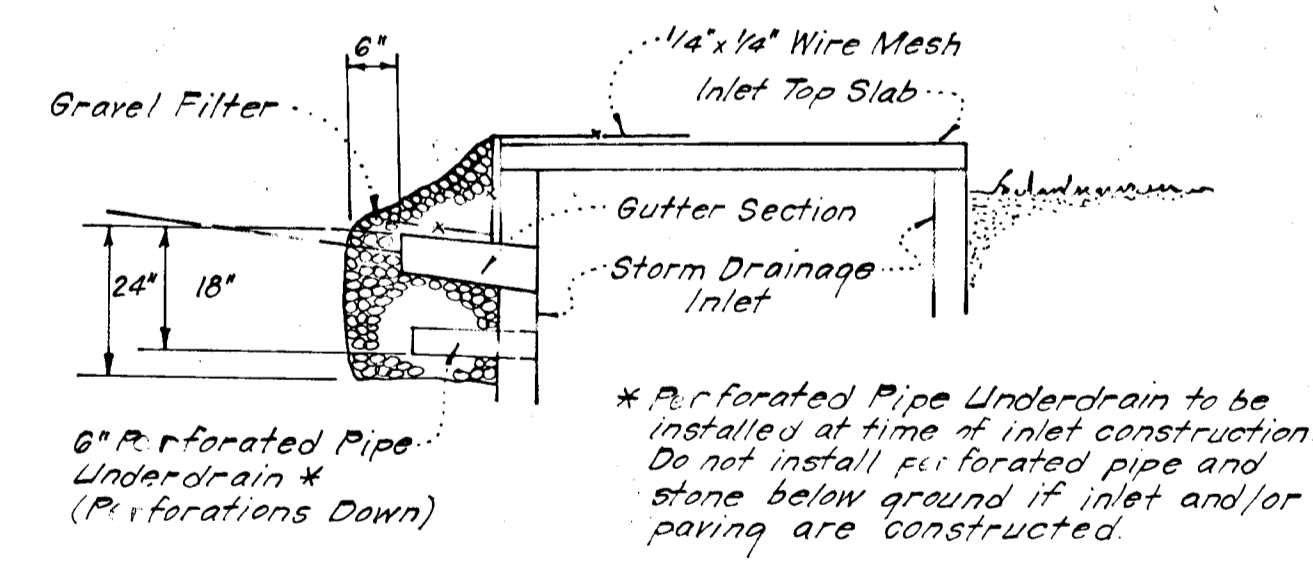
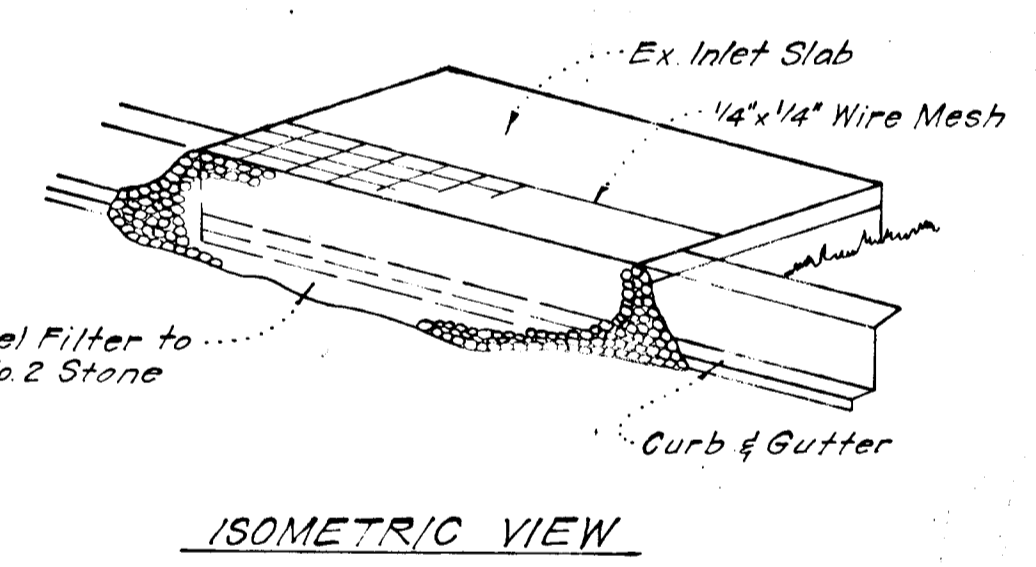
Note:
1. In lieu of the use of rebars each straw bale may be fastened to ground with pegs (4 per bale and wire or nylon as shown above.)

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

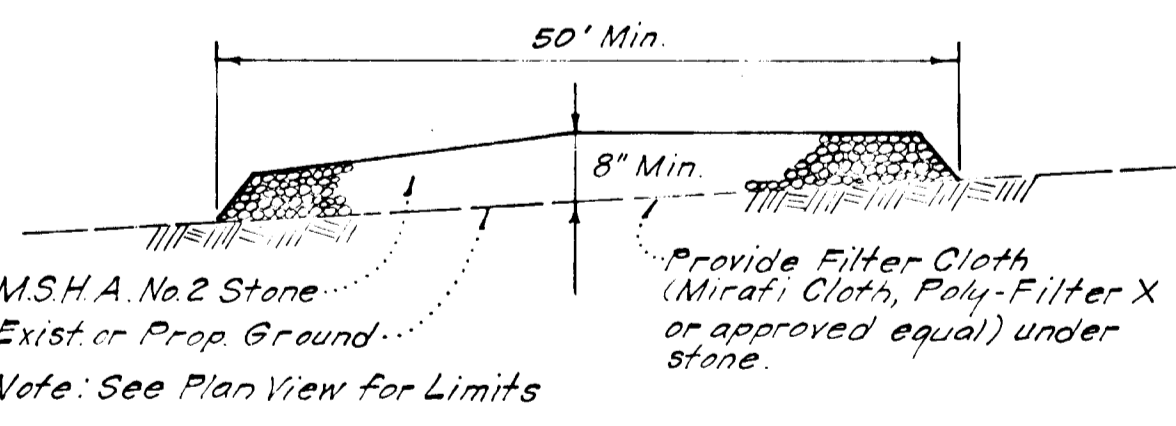


Notes:
1. Woven Wire Fence to be fastened securely to fence posts by use of wire ties.
2. Filter Cloth to be fastened securely to Woven Wire, by use of wire ties spaced every 24"x24".

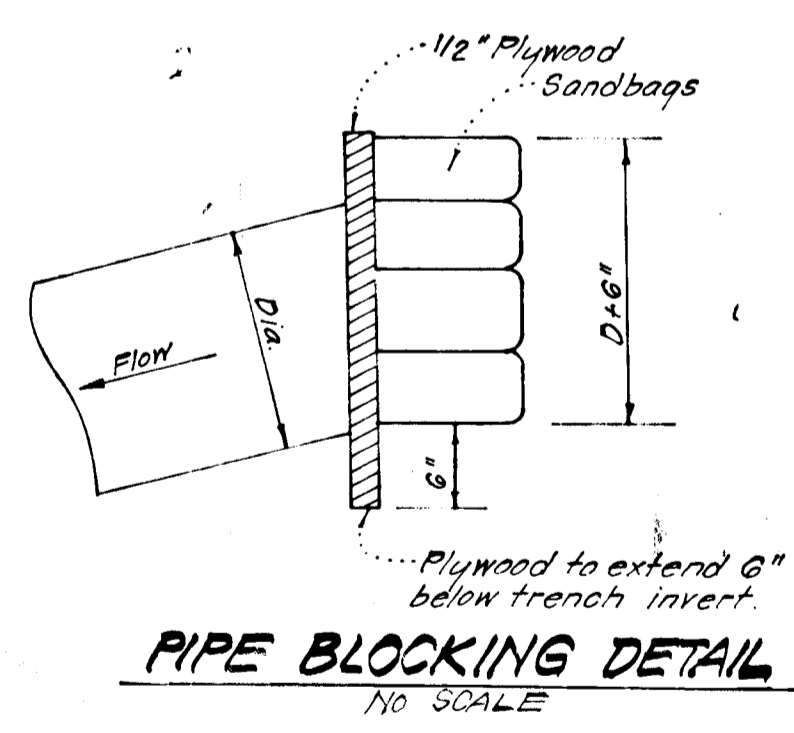
SILT FENCE DETAIL (S.F.)
NO SCALE



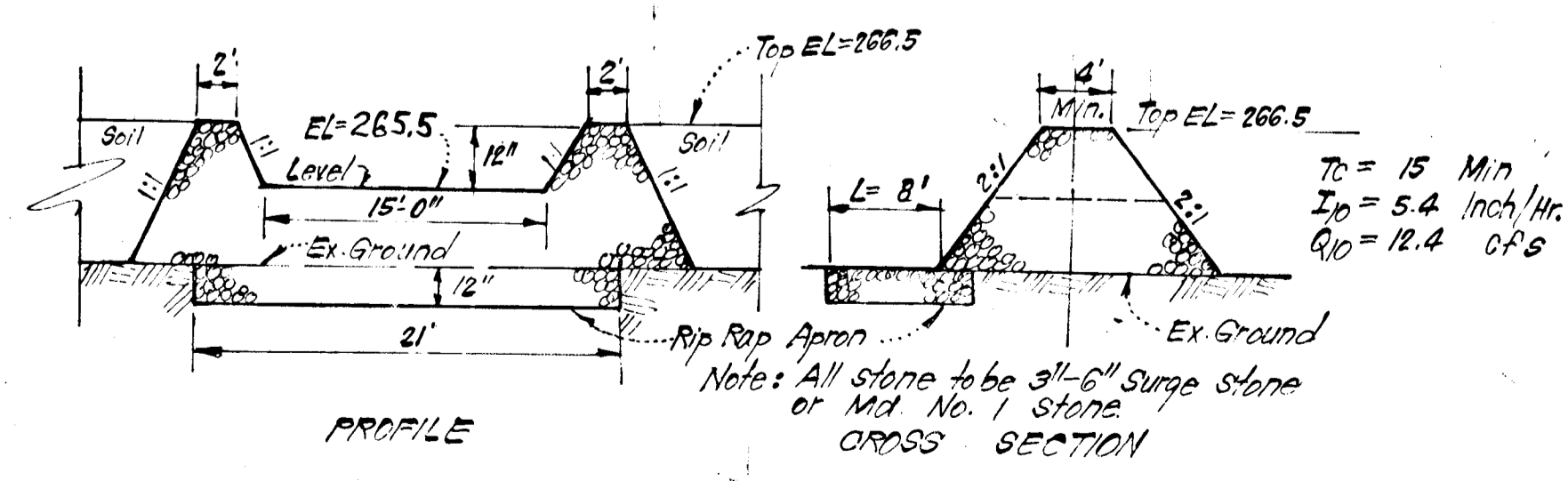
STONE FILTER INLET PROTECTION (S.F.I.P.)
NO SCALE



STABILIZED CONSTRUCTION ENTRANCE
NO SCALE



PIPE BLOCKING DETAIL
NO SCALE

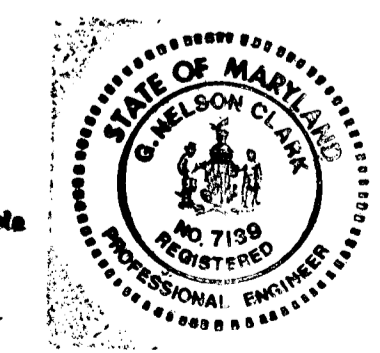


SPECIAL STONE OUTLET STRUCTURE DETAIL (S.O.S.T.)
NO SCALE

Reviewed for... ASAP S.C.D.
Name
Signature
Date
U.S. Soil Conservation Service
#981
Approved

DEVELOPER'S/BUILDER'S CERTIFICATE
"I/We certify that all development and construction will be done according to the 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 Stanley S. Koo
Date 3/7/84

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 G. Nelson
Date 3-5-84



APPROVED: Department of Public Works		
Signature <u>G. Nelson</u>		Date <u>6-27-84</u>
APPROVED: Howard County Office of Planning and Zoning		
Signature <u>William M. Moseman</u>		Date <u>6-26-84</u>
Chief, Division of Land Development & Zoning Administration		
CLARK • FINEROCK & SACKETT ENGINEERS • PLANNERS • SURVEYORS 11115 LOCKWOOD DRIVE SILVER SPRING, MARYLAND 20904 101-593-3400		
DESIGNED	ROAD CONSTRUCTION PLANS SEDIMENT & EROSION CONTROL DETAILS	SCALE
DRAWN		AS SHOWN
CHECKED		50' = 5'
DATE		JOB NO.
		82-027
		DATE
		8-1-84
		82-027-D