

DEVELOPER'S CERTIFICATE

I certify that all development and/or construction will be done according to this plan of development and plan for Erosion and Sediment Control, and I also authorize periodic on-site inspection by the Howard Soil Conservation District or their authorized agents as are deemed necessary. Deviation from this plan will not be made unless authorized by the Howard Soil Conservation District.

Alan C. Borg
Alan C. Borg
10/15/79
Date

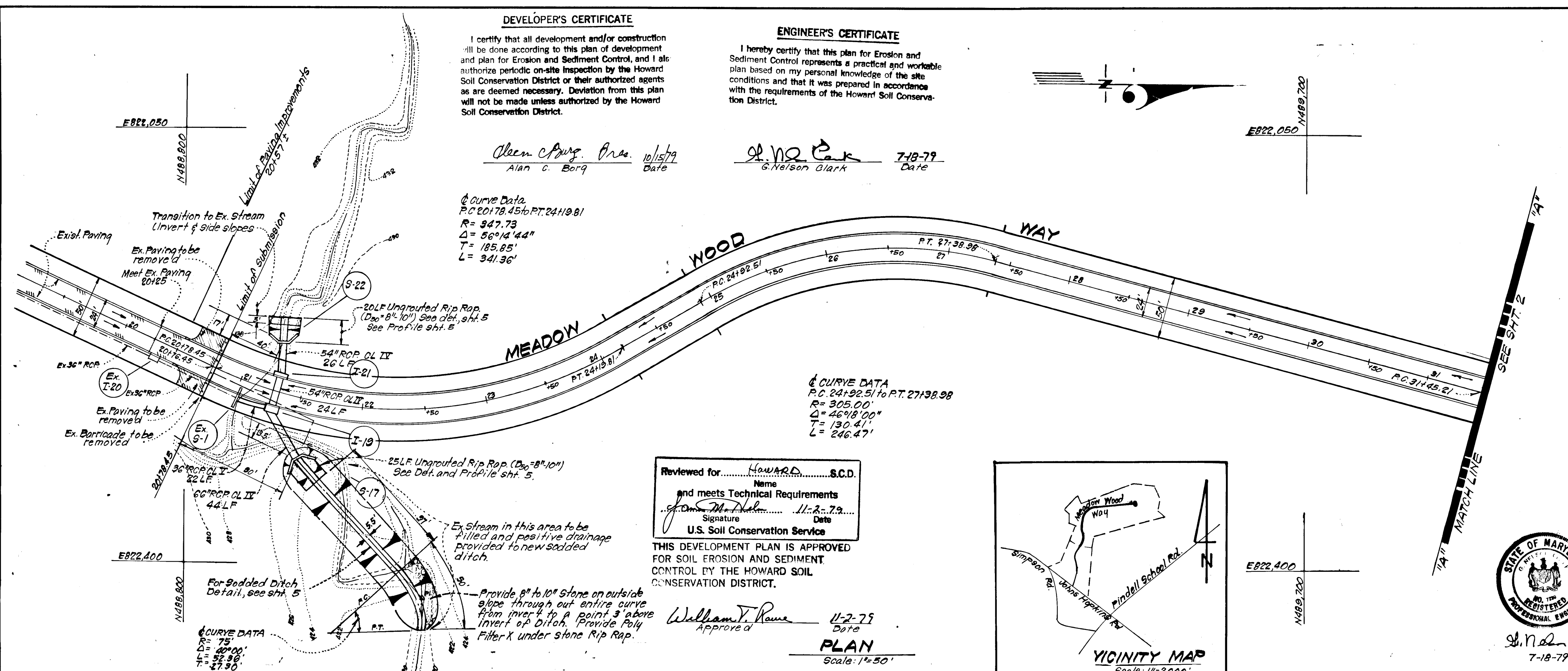
ENGINEER'S CERTIFICATE

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
G. Nelson Clark
7-18-79
Date

GENERAL NOTES:

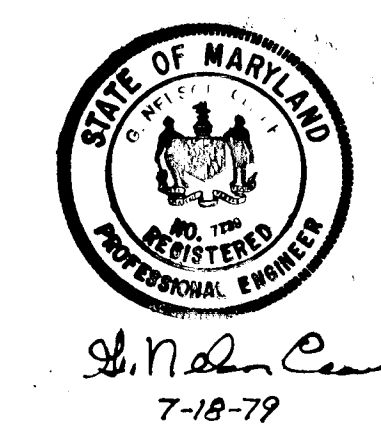
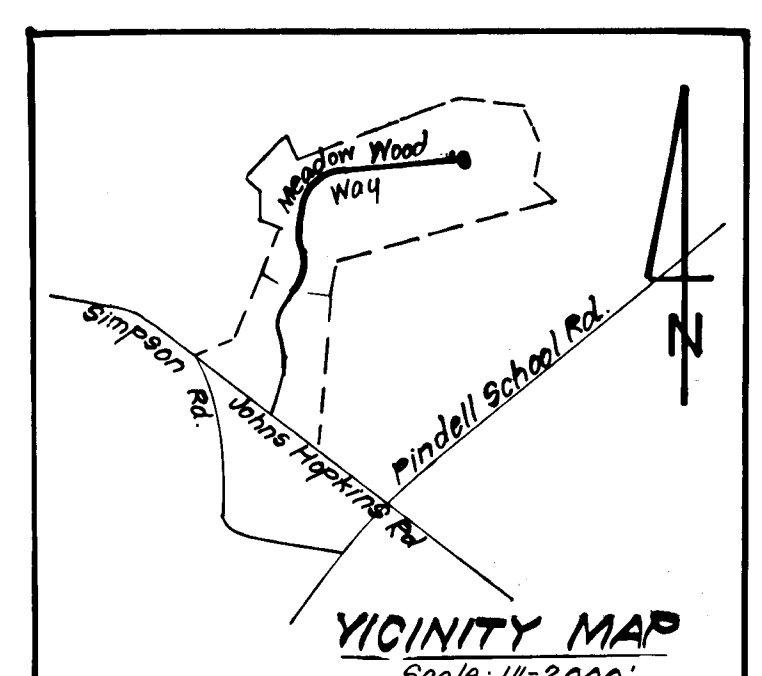
- All Storm Drain and Paving shall be constructed in accordance with the latest details and specifications of Howard County & Md. SHA.
- Types of Storm Drain Structures refer to the Standard Details of Howard County & Maryland State Highway Administration.
- Trench compaction for storm drains within road or street right of way limits shall be in accordance with the latest How Co. Road Constr. Code.
- Information concerning underground utilities was obtained from available records, but the contractor must determine the exact location and elevation 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 A.S.H.O.
- Design Speed for Meadow Wood Way & Tall Pine Way = 30 mph.
- Zoning: Rural



Reviewed for Howard S.C.D.
Name
and meets Technical Requirements
James M. Nelson 11-2-79
Signature Date
U.S. Soil Conservation Service

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

William T. Rowe 11-2-79
Approve Date
PLAN
Scale: 1"=50'

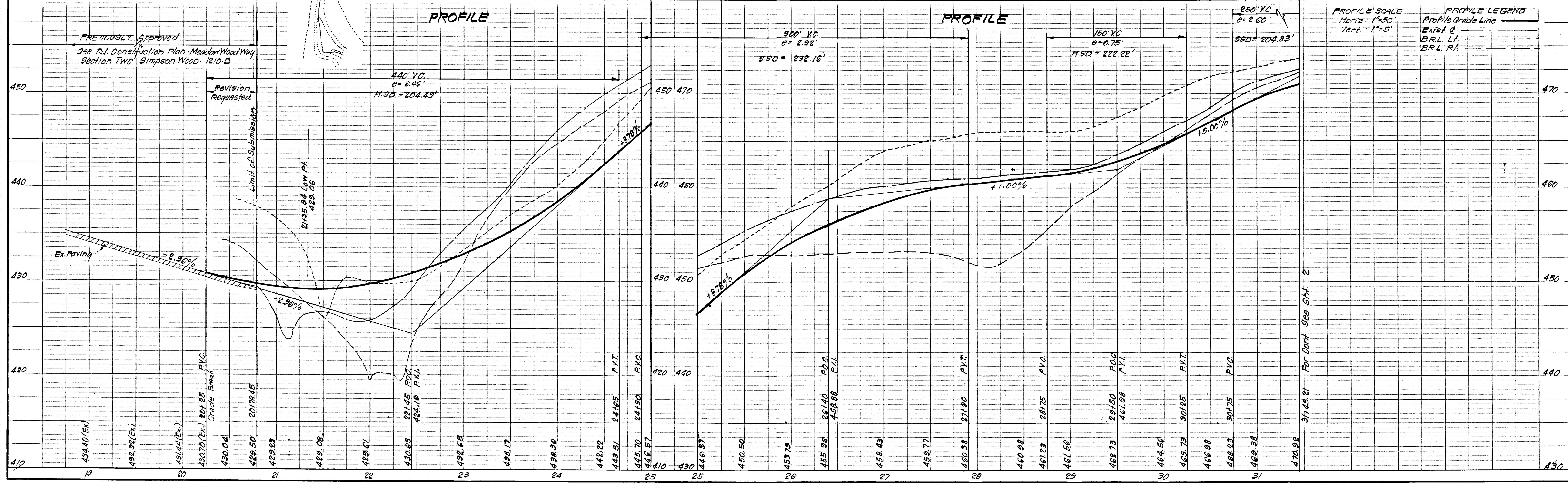


No.	REVISION	Date
1	Revised outfall of Structure 5-17 and added Rip Rap to outside slope of curve.	7-2-80

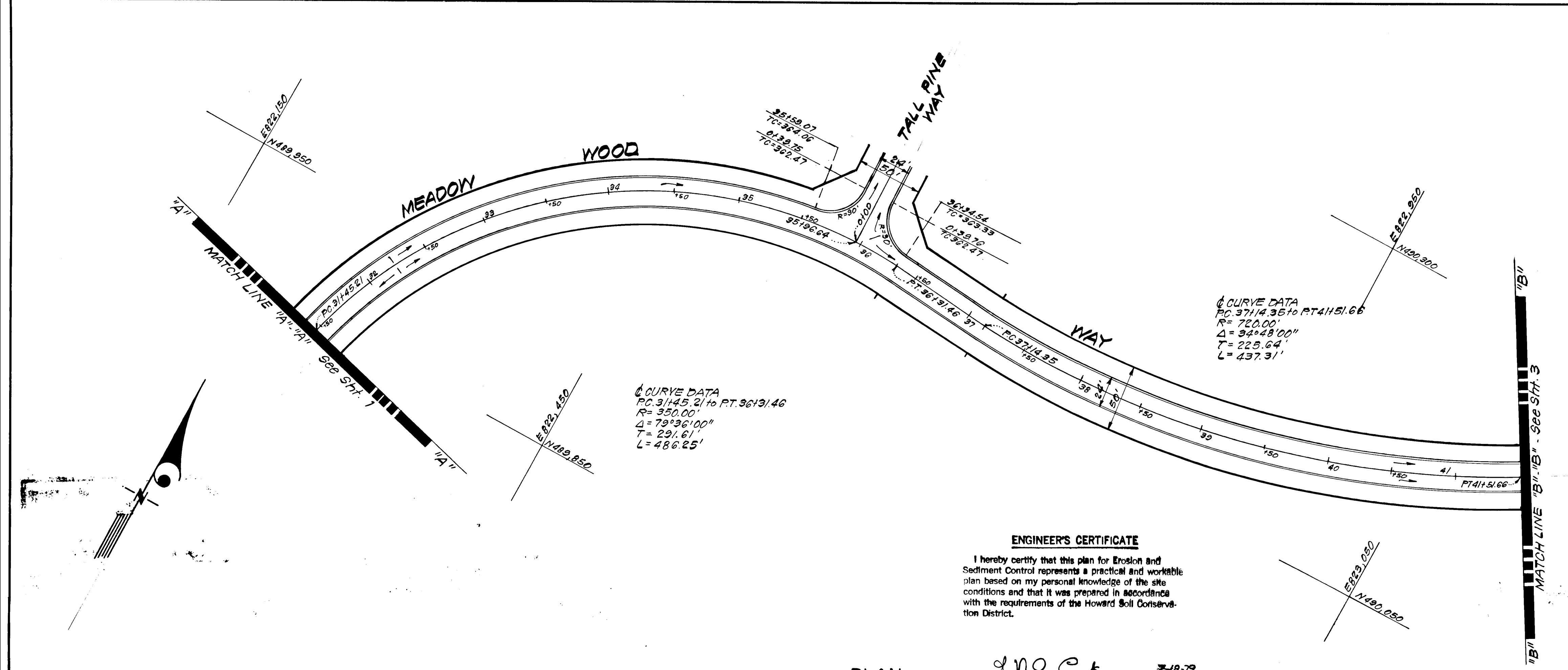
APPROVED: Department of Public Works
Allen J. Brown 11/8/79
Chief, Bureau of Engineering Date

APPROVED: Howard County Office of Planning & Zoning
William M. Mueselman 11-5-79
Chief, Division Land Development Date

CLARK • FINEFROCK & SACKETT ENGINEERS • PLANNERS • SURVEYORS		11315 LOCKWOOD DRIVE SILVER SPRING, MARYLAND 20904 (301) 593-3400
DESIGNED R.J.S.	ROAD CONSTRUCTION PLANS MEADOW WOOD WAY	SCALE As Shown
DRAWN K.M.W.	SIMPSON WOODS	DRAWING 1 of 8
CHECKED R.J.S.	SECTION THREE 6th ELECTION DISTRICT HOWARD COUNTY, MARYLAND	JOB NO.
DATE July 1979	FOR: PHASE TWO LIMITED % LANDBORG INC. Teachers Building, Suite 304 Columbia, Md 21044	FILE NO. 79-015-D



#566



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
 G. Nelson Clark
 7-18-79
 Date

PLAN
 Scale: 1"=50'

DEVELOPER'S CERTIFICATE

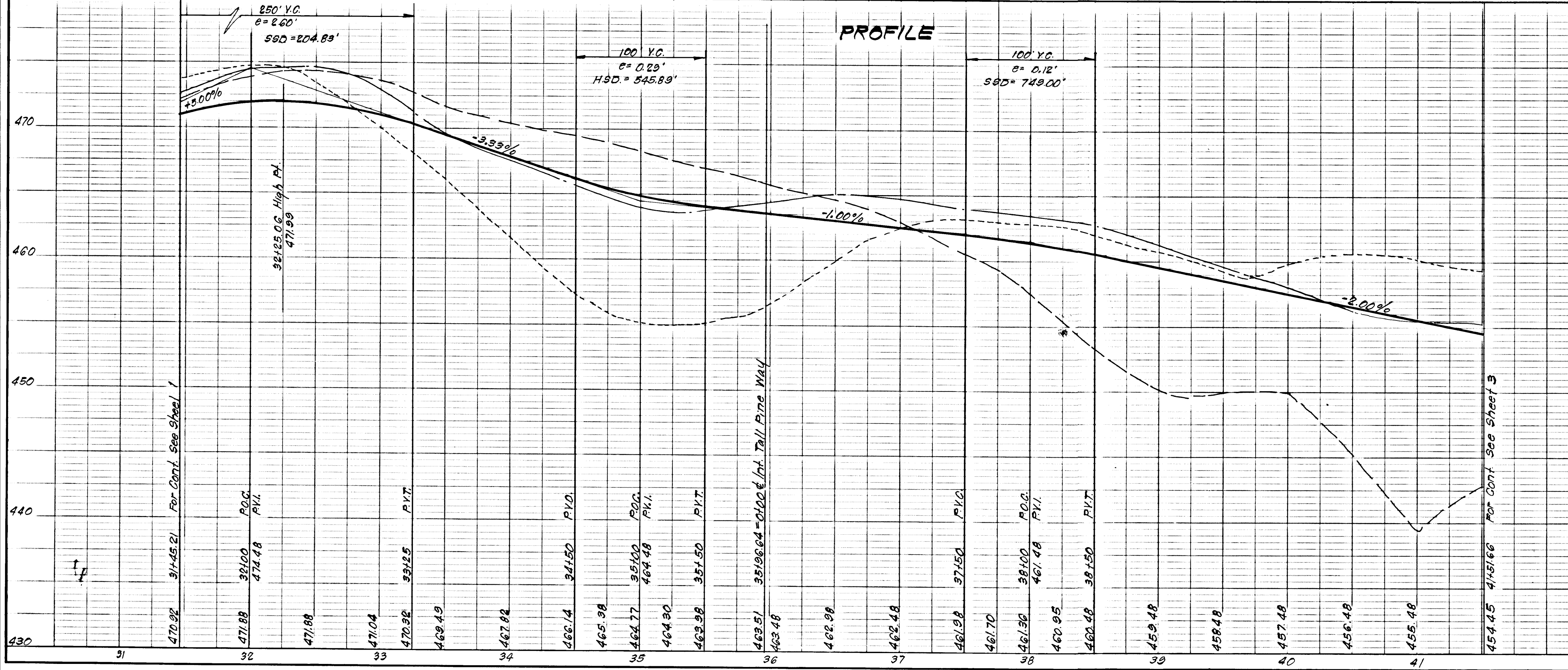
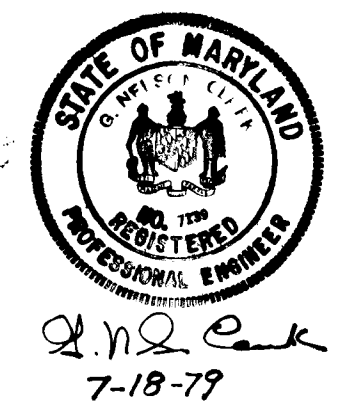
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Reviewed for.....Howard.....S.C.D.
 Name
 and meets Technical Requirements
John M. DeLoe 11-2-79
 Signature Date
 U.S. Soil Conservation Service

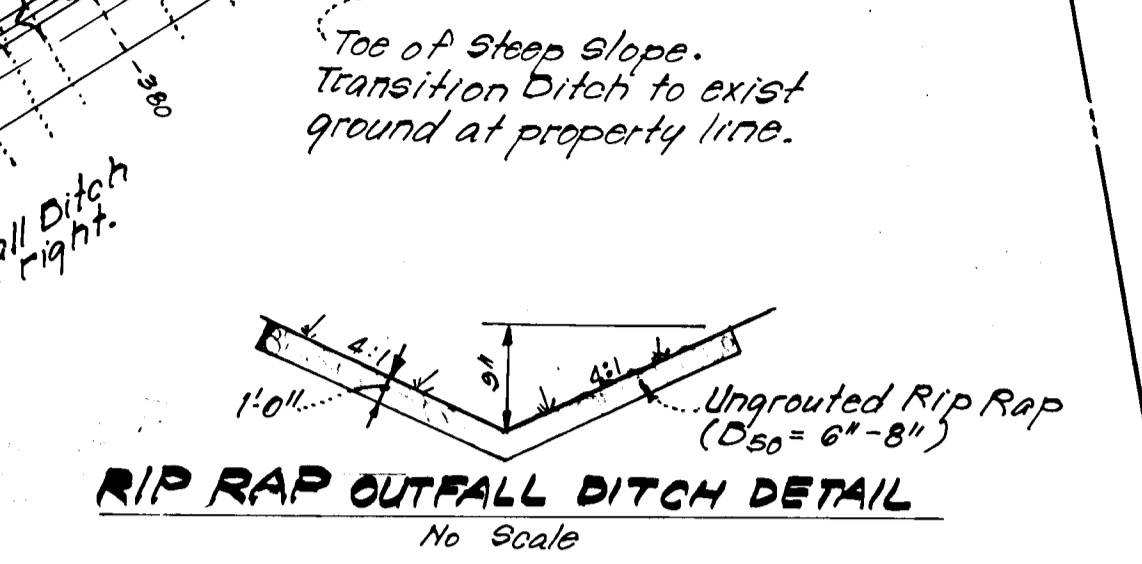
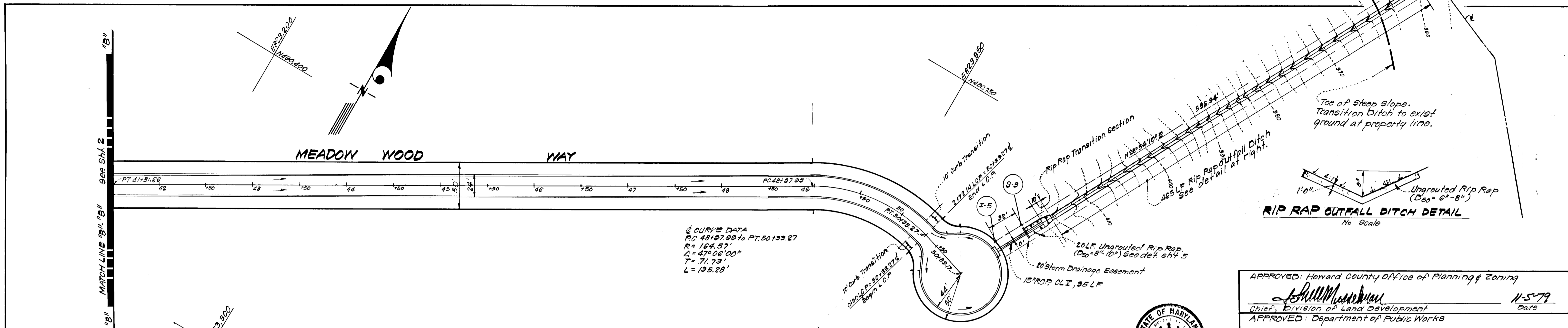
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Alan C. Borg, Jr. 10/15/79
 Alan C. Borg Date
William F. Rowe 11-2-79
 Approved Date

APPROVED: Department of Public Works		
<i>Allen S. Brown</i> Chief, Bureau of Engineering	11/8/79 Date	
APPROVED: Howard County Office of Planning and Zoning		
<i>William M. Mendenhall</i> Chief, Division of Land Development	11-5-79 Date	
CLARK • FINEFROCK & SACKETT ENGINEERS • PLANNERS • SURVEYORS 11315 LOCKWOOD DRIVE SILVER SPRING, MARYLAND 20904 (301) 593-3400		
DESIGNED R.J.S.	ROAD CONSTRUCTION PLANS MEADOW WOOD WAY	SCALE As Shown
DRAWN K.I.W.	SIMPSON WOODS	DRAWING 2 of 8
CHECKED R.J.S.	SECTION THREE 5th ELECTION DISTRICT HOWARD COUNTY, MARYLAND	JOB NO.
DATE July, 1979	FOR: PHASE TWO LIMITED % LANDBORG, INC. Teachers Building, Suite 304 Columbia, Md. 21044	FILE NO. 72-015-D



#566



Reviewed for Howard Co. S.C.D.
 Name
 and meets Technical Requirements
 Signature [Signature] Date 11-2-79
 U.S. Soil Conservation Service

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William T. Rowe 11-2-79
 Approved Date

Alan G. Borg 10/15/79
 Date

PLAN
 Scale: 1"=50'

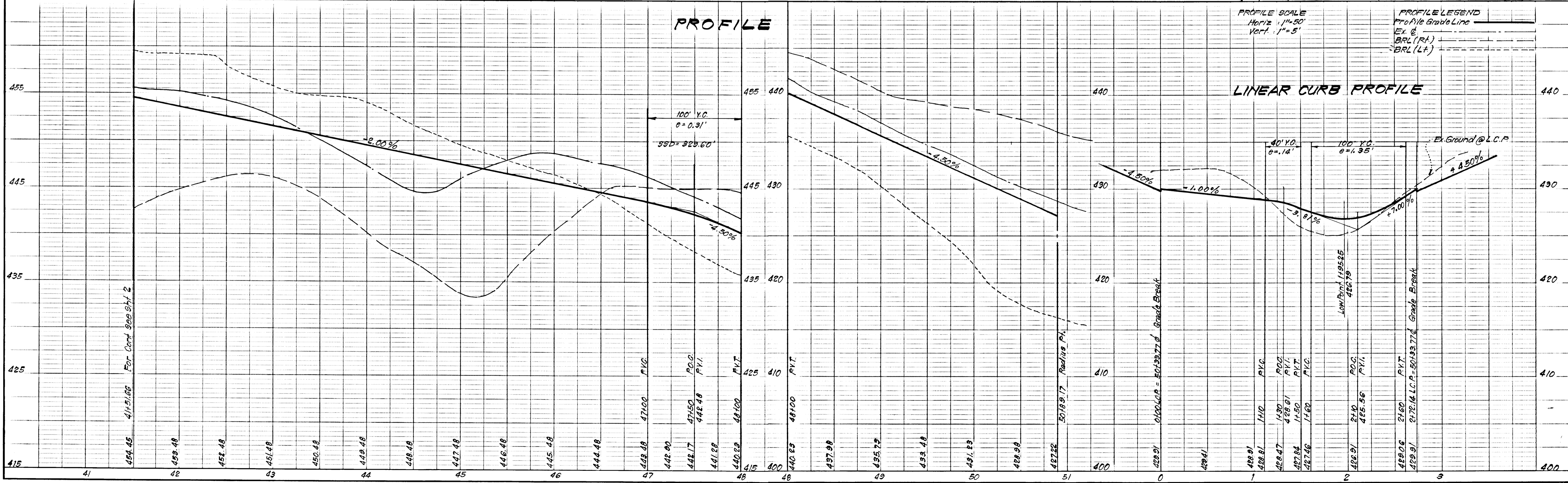
Note: For Out-Of-Sac Detail See Sheet B.

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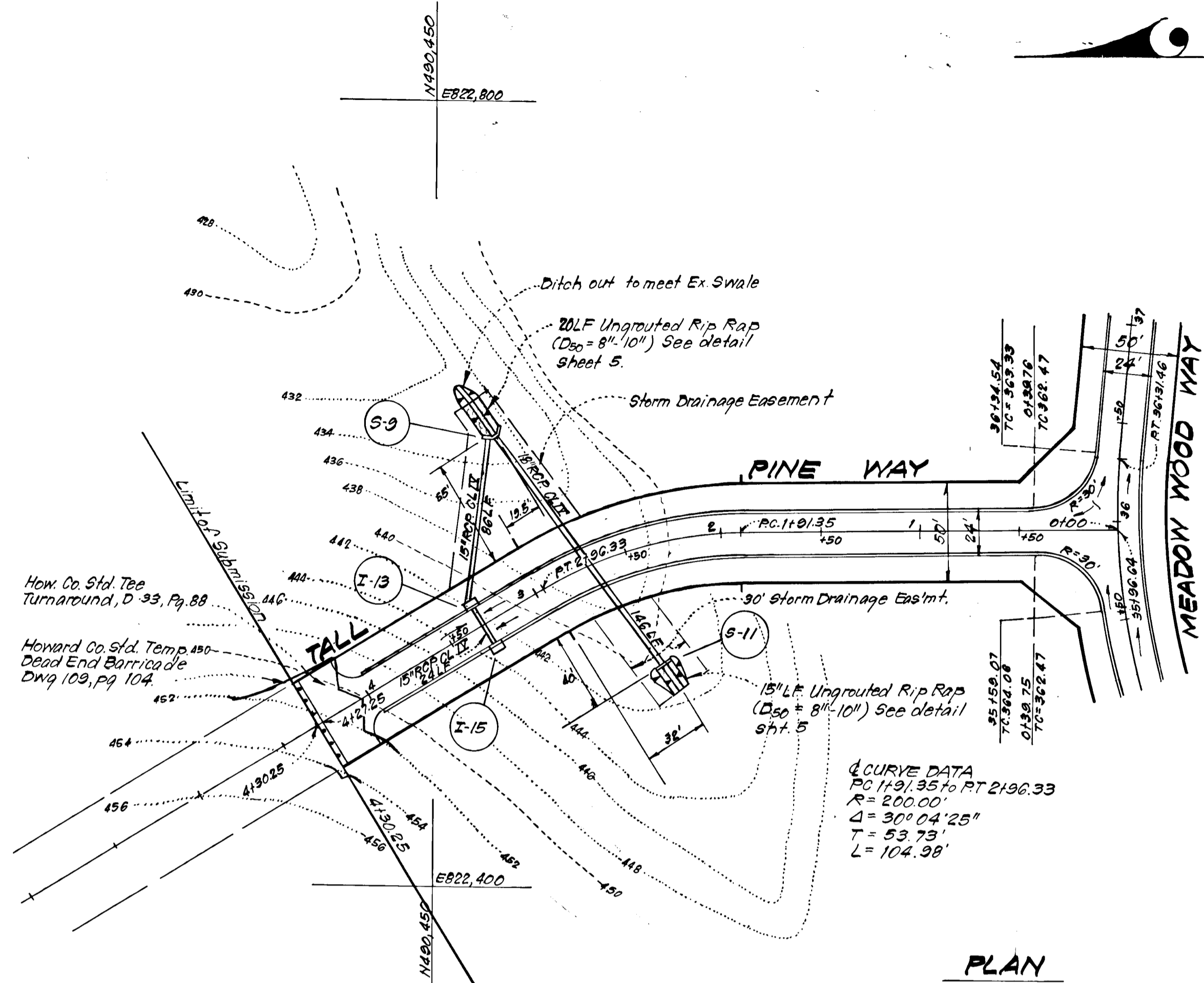
[Signature] 7-18-79
 Date



APPROVED: Howard County Office of Planning & Zoning		
<u>[Signature]</u>	11-5-79	Date
Chief, Division of Land Development		
APPROVED: Department of Public Works		
<u>[Signature]</u>	11/8/79	Date
Chief, Bureau of Engineering		
CLARK • FINEFROCK & SACKETT		
ENGINEERS • PLANNERS • SURVEYORS		
1115 LOCKWOOD DRIVE SILVER SPRING, MARYLAND 20904 (301) 593-3400		
DESIGNED	R.J.S.	SCALE
DRAWN	R.V.S.	As Shown
CHECKED	K.I.W.	DRAWING
R.J.S.	R.J.S.	3 of 8
DATE	July 1979	JOB NO.
ROAD CONSTRUCTION PLANS MEADOW WOOD WAY SIMPSON WOODS SECTION THREE 5th ELECTION DISTRICT HOWARD COUNTY, MARYLAND		FILE NO.
FOR: PHASE TWO LIMITED, c/o LANDBORG, INC. Teachers Building, Suite 304 Columbia, Md 21044		79-015-D



#566



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G. Nelson Clark
G. Nelson Clark
7-18-79
Date



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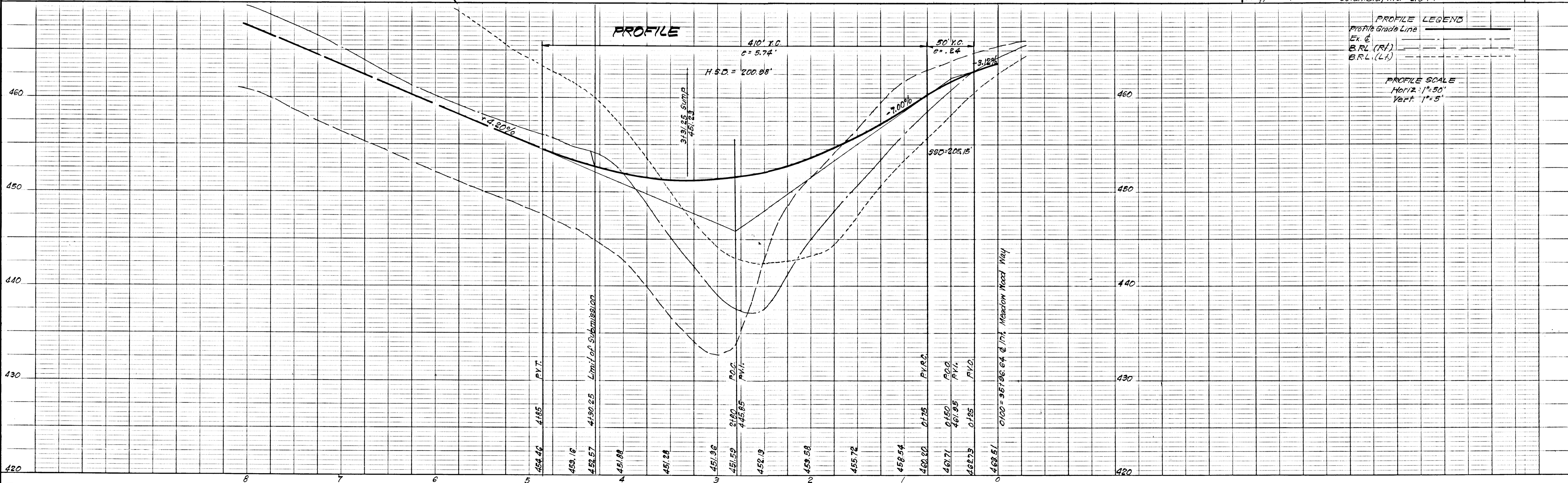
Reviewed for *Howard Co. S.C.D.*
Name
and meets Technical Requirements
William V. Rame 11-2-79
Signature Date
U.S. Soil Conservation Service

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

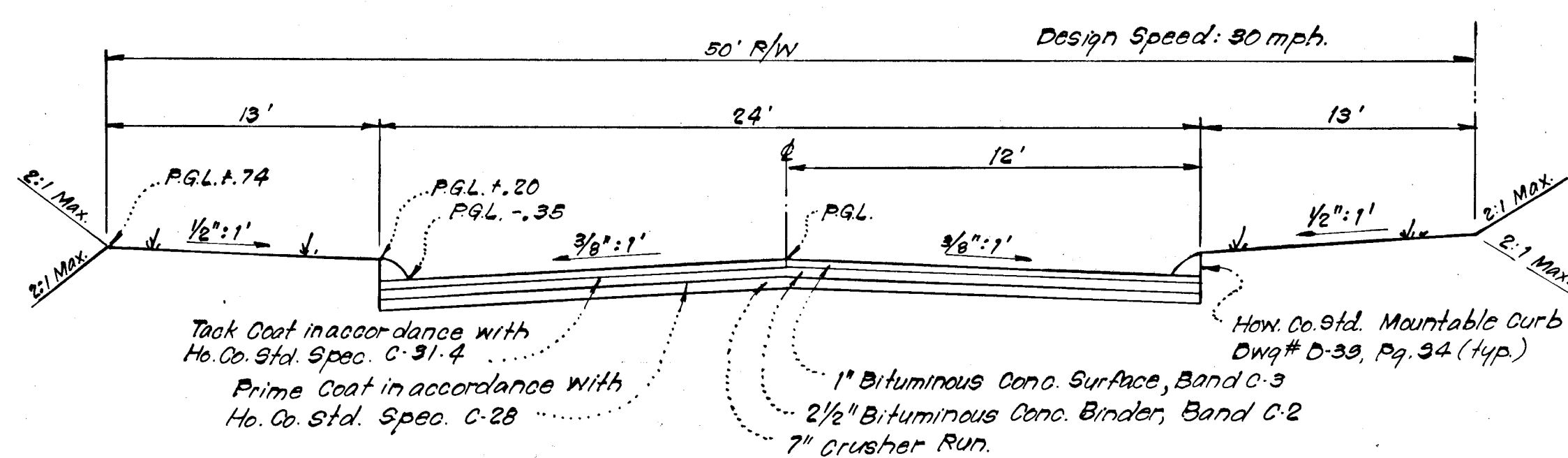
Alan C. Berg 10/15/79
Alan C. Berg Date
William V. Rame 11-2-79
Approved Date

APPROVED: Department of Public Works
Allen J. Brown 11/8/79
Chief, Bureau of Engineering Date
APPROVED: Howard County Office of Planning and Zoning
John W. Mastelmann 11-5-79
Chief, Division of Land Development

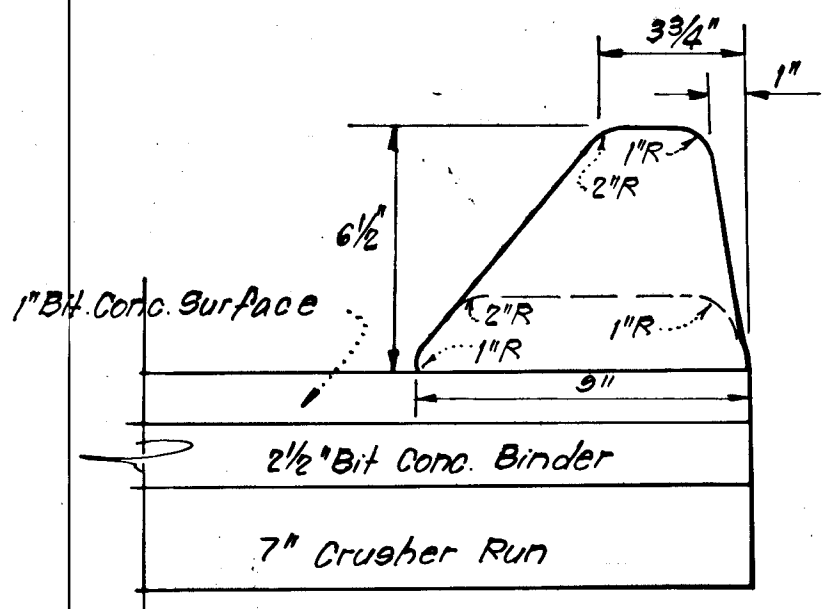
CLARK • FINEROCK & SACKETT ENGINEERS • PLANNERS • SURVEYORS 11315 LOCKWOOD DRIVE SILVER SPRING, MARYLAND 20904 (301) 593-3400		
DESIGNED	ROAD CONSTRUCTION PLANS TALL PINE WAY	SCALE As Shown
DRAWN	SIMPSON WOODS	DRAWING 4 of 8
CHECKED	SECTION THREE 5th ELECTION DISTRICT	JOB NO.
DATE	HOWARD COUNTY, MARYLAND FOR: PHASE TWO LIMITED 96 LANDBORG, INC. Teachers Building, Suite 304 Columbia, Md 21044	FILE NO. 79-015-D
July, 1979		



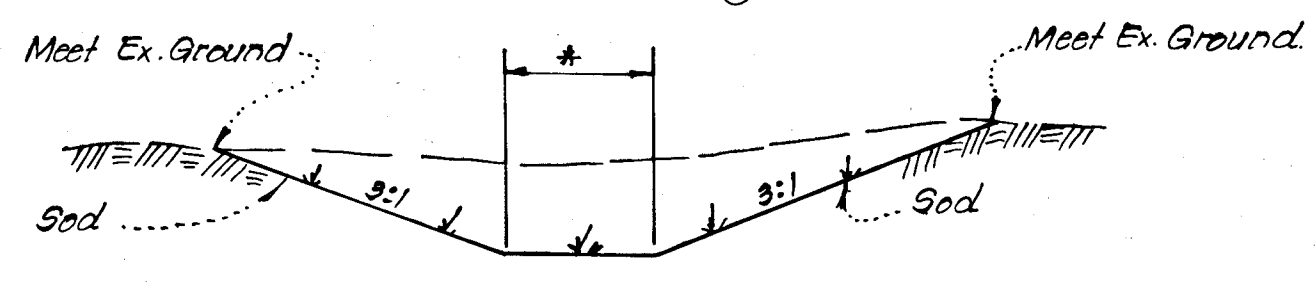
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TYPICAL PAVING SECTION - MEADOW WOOD WAY AND TALL PINE WAY
No Scale

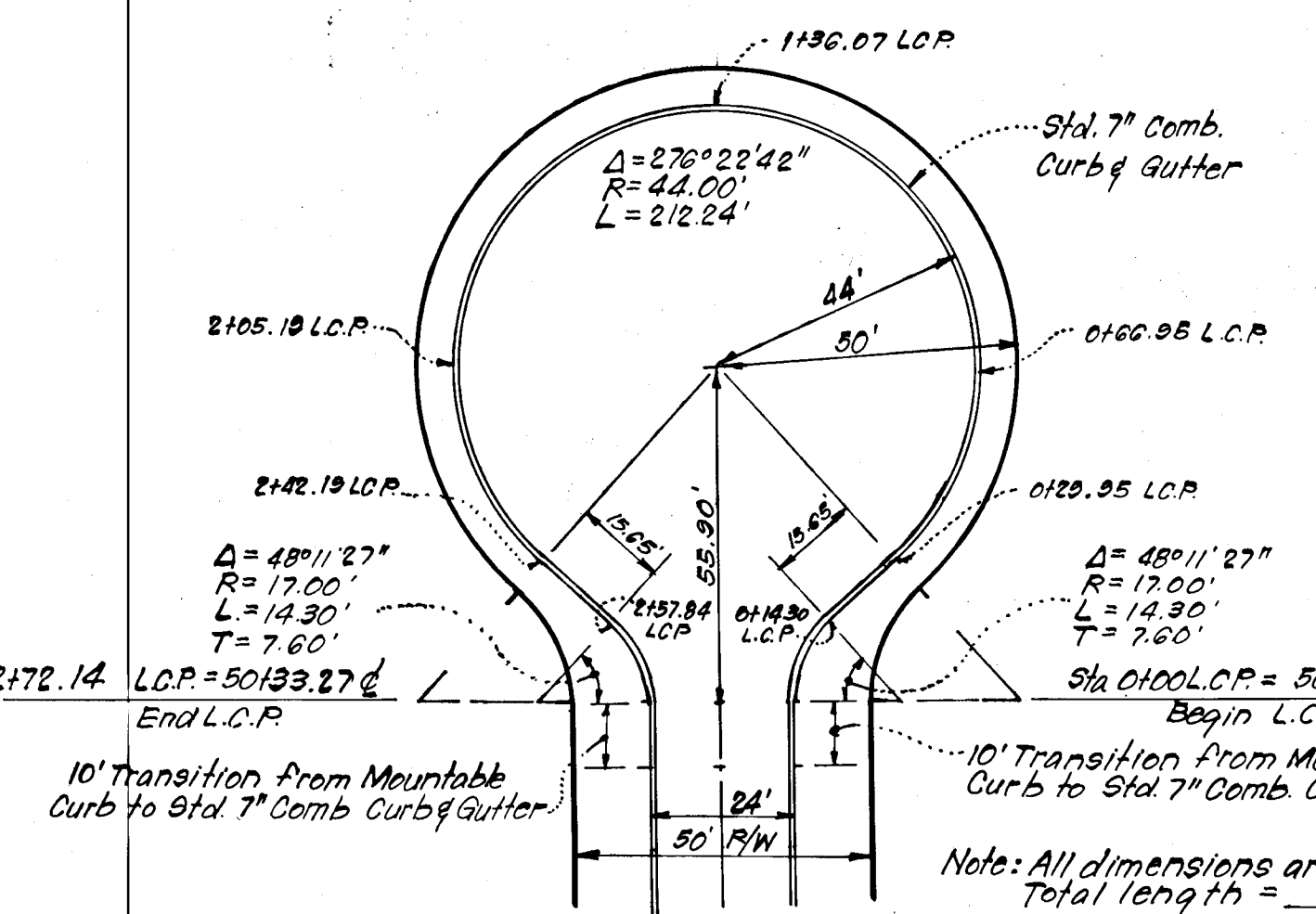


MOUNTABLE CURB DETAIL
No Scale

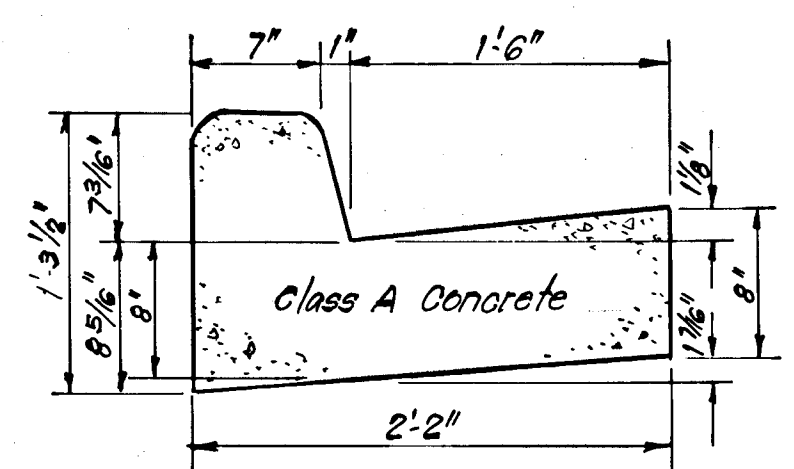


SODDED DITCH DETAIL
No Scale

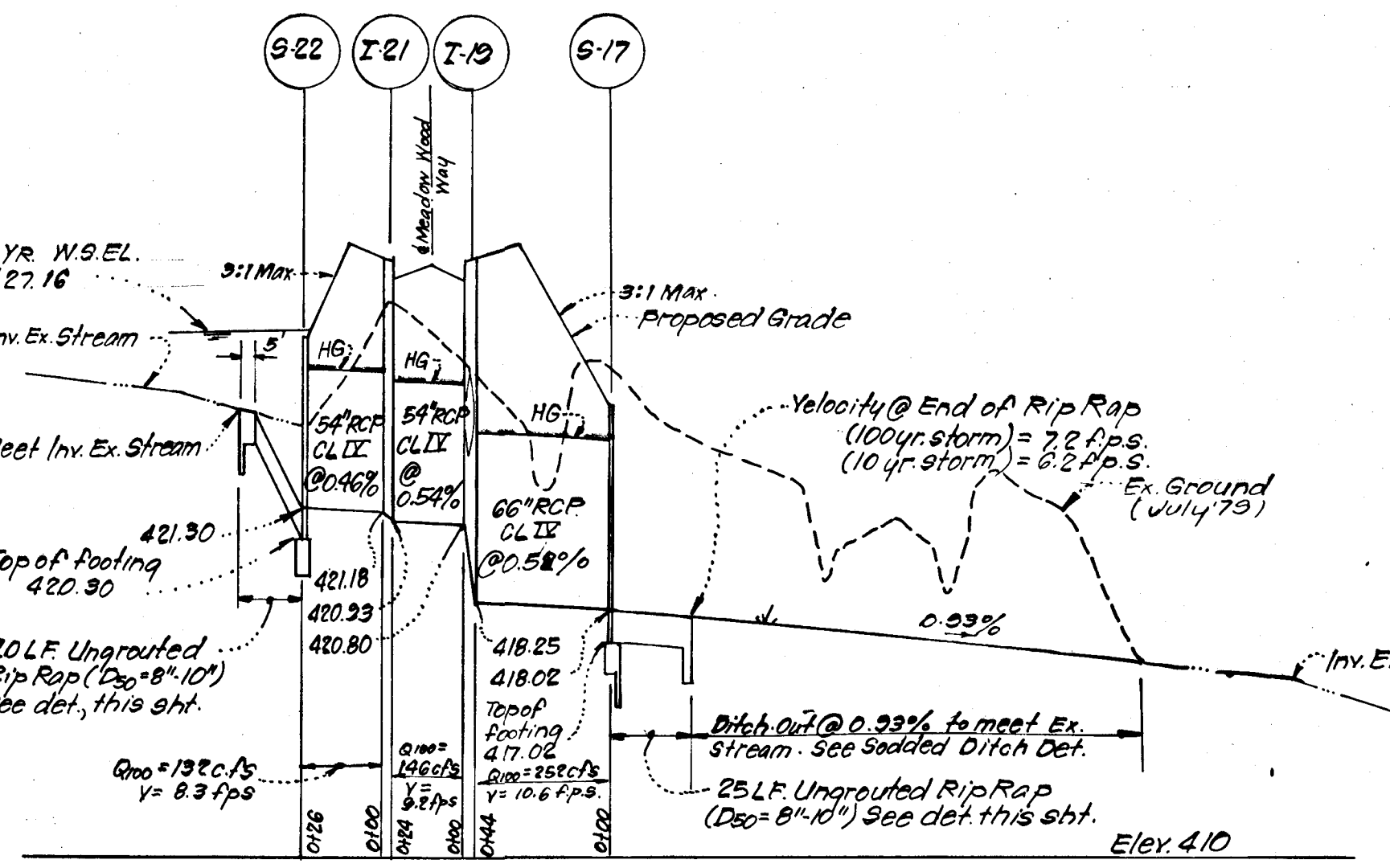
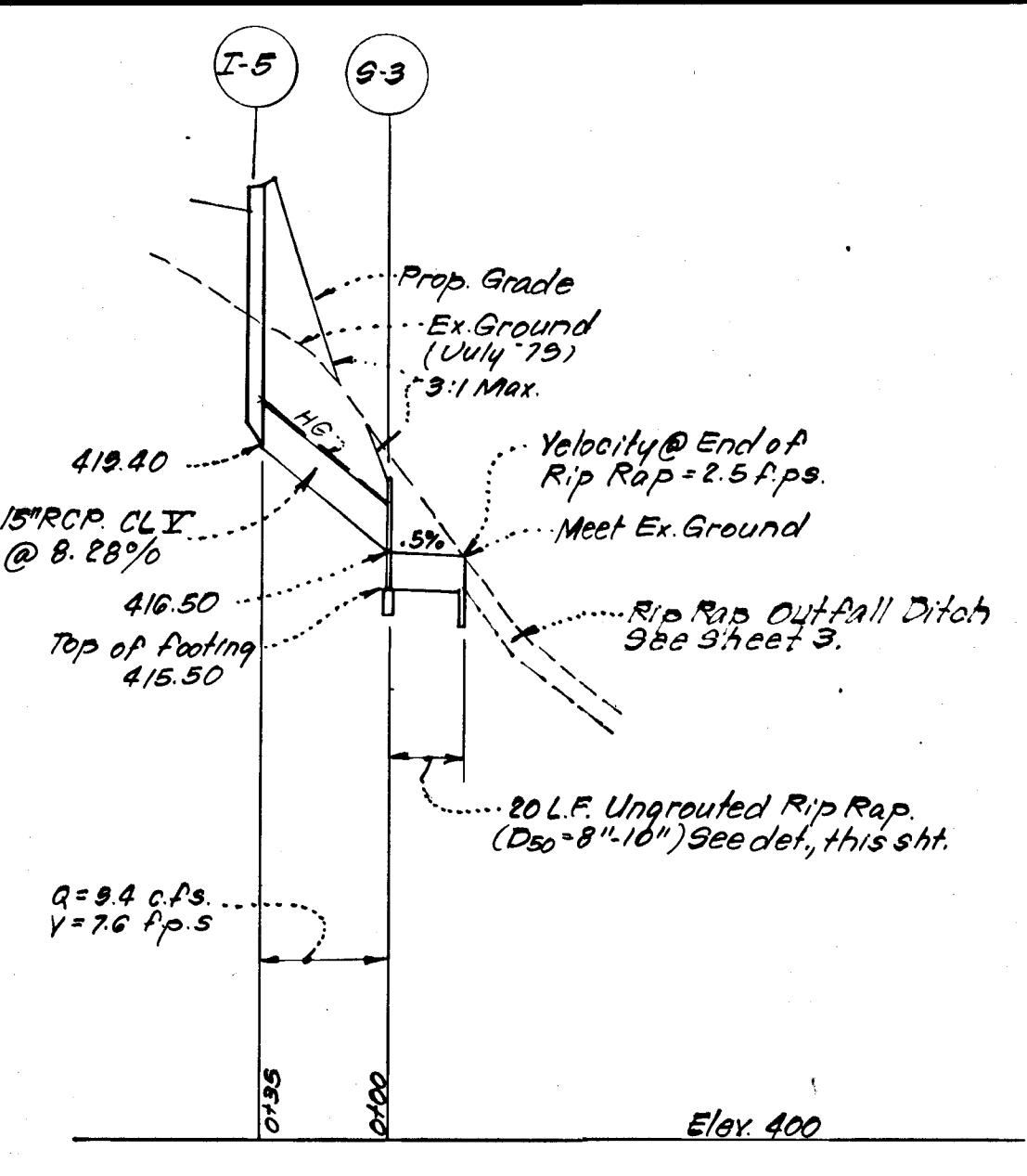
- GENERAL SODDING NOTES:**
1. Apply 10-10-10 Fertilizer @ 1000#/acre (25# / 1000 S.F.)
 2. Apply Ground Agricultural Limestone @ 2000#/acre (50# / 1000 S.F.)
 3. Incorporate both Lime and Fertilizer into soil by disking. Firm up after incorporation.
 4. Lay sod to a tight fit. Roll to insure contact with underlying soil. Water as necessary for 1st 2 weeks, in summer, to ensure establishment.
 5. All sod to be used must be certified by the state of Maryland.



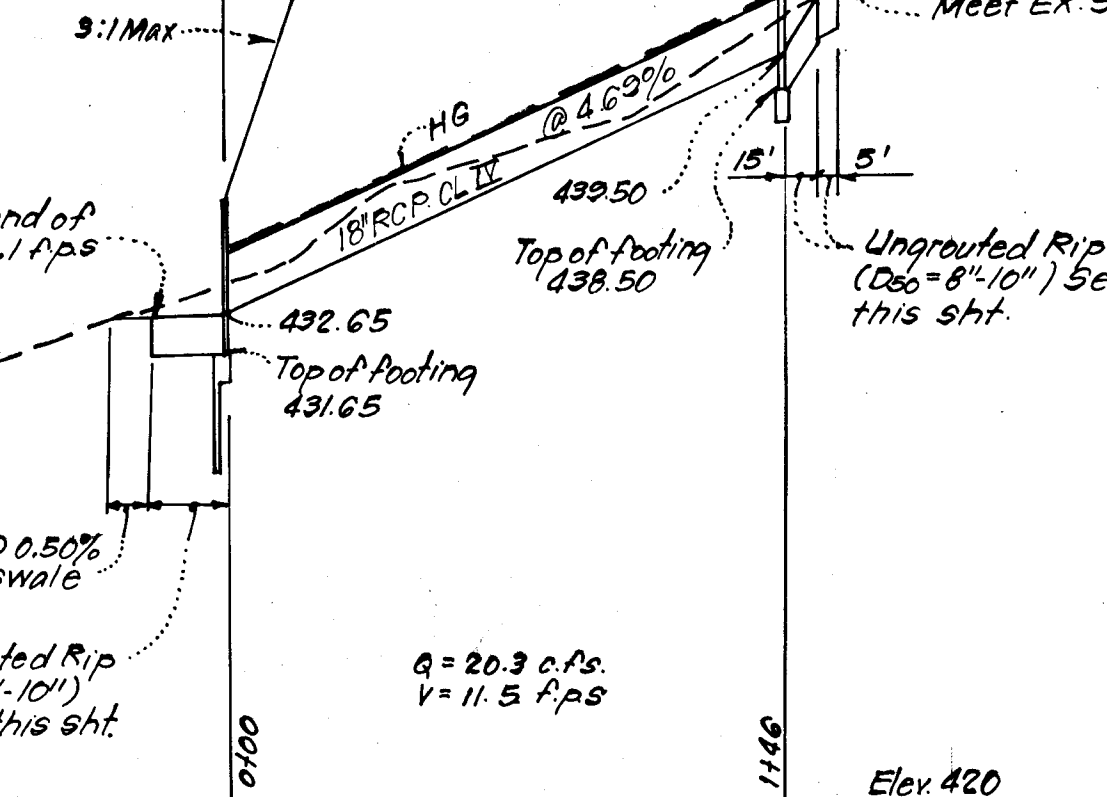
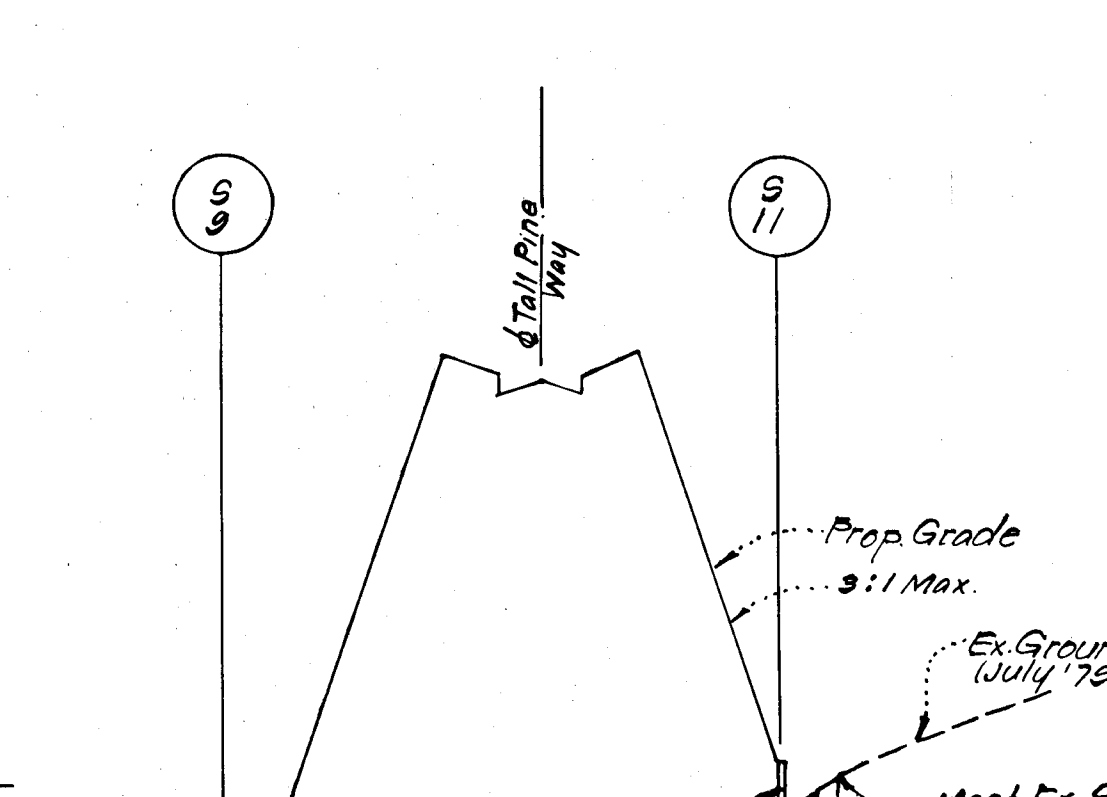
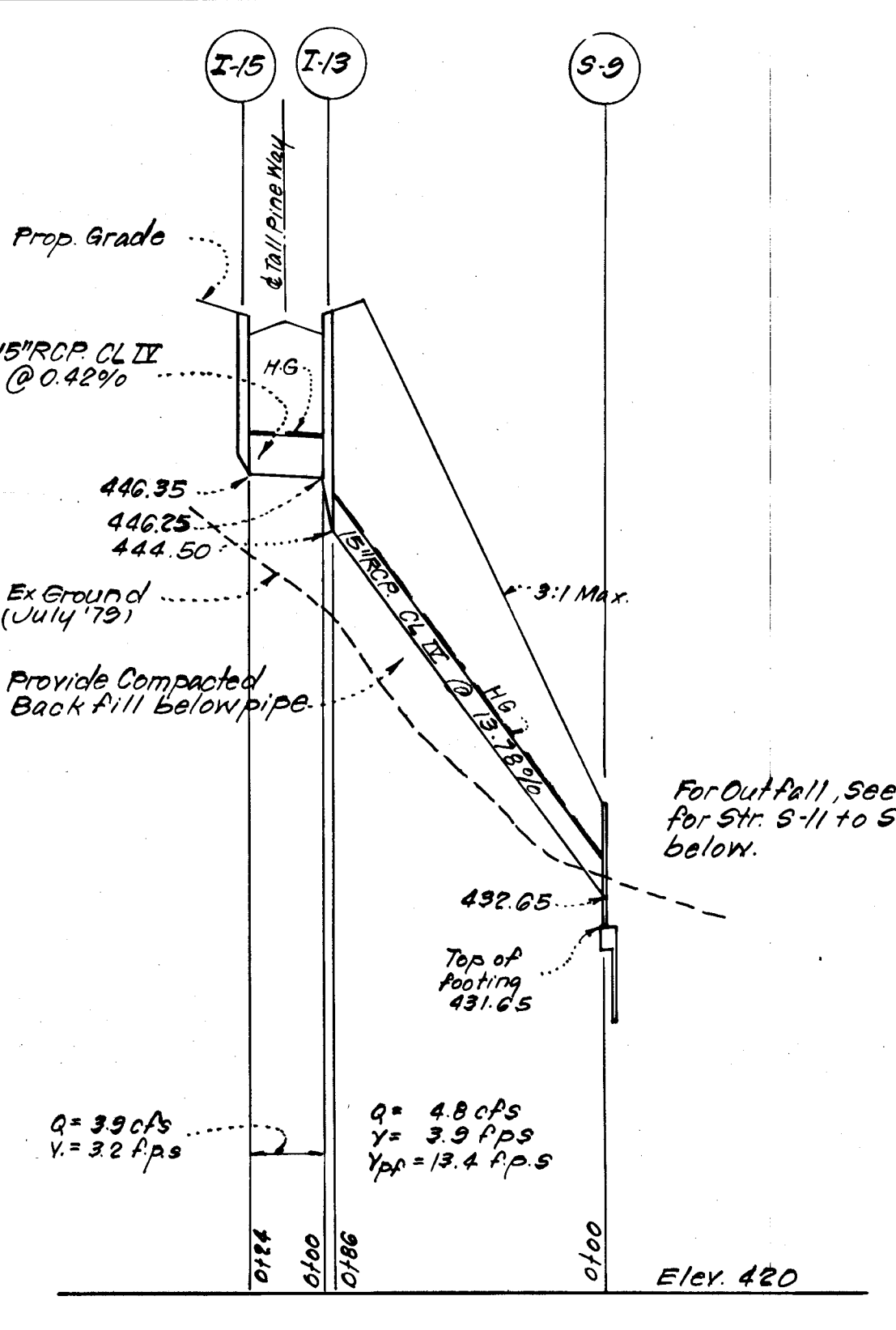
TYPICAL CUL-DE-SAC DETAIL
Scale: 1"=30'



STANDARD 7" COMBINATION CURB & GUTTER
No Scale



PROFILES
Scale: Horiz: 1"=50' Vert: 1"=5'



PROFILE
Scale: Horiz: 1"=50' Vert: 1"=5'

STRUCTURE SCHEDULE						
No.	TYPE	INV. IN	INV. OUT	TOP ELEVATION		REMARKS
				Upper	Lower	
* 9-3	10" End Wall	-	416.50	-	-	How. Co. Std. D-52, Pg. 107 D=15"
I-5	14" Inlet	-	419.40	426.79	-	How. Co. Std. D-64A, Pg. 119 A W=2'-6"
* 9-9	14" Head Wall	-	432.65	-	-	How. Co. Std. Fig. 5.11 D=18"
* 9-11	10" End Wall	-	439.50	-	-	How. Co. Std. D-52, Pg. 107 D=18"
I-19	14" Inlet	446.25	444.50	451.43	-	How. Co. Std. D-64A, Pg. 119 A W=2'-6"
I-15	14" Inlet	-	446.35	451.43	-	How. Co. Std. D-64A, Pg. 119 A W=2'-6"
* 9-17	18" Head Wall	-	418.02	-	-	How. Co. Std. D-50, Pg. 105 D=66"
I-19	14" Inlet	422.83	422.83	429.26	-	How. Co. Std. D-64A, Pg. 119 A W=4'-0"
I-21	14" Inlet	421.18	420.93	429.26	-	How. Co. Std. D-64A, Pg. 119 A W=2'-6"
* 9-22	18" Head Wall	-	421.30	-	-	How. Co. Std. D-48, Pg. 103 D=54"

* Increase "H" Dimension 1'-0" to accommodate Rip Rap.

PIPE SCHEDULE		
SIZE	TYPE	LENGTH
15"	R.C.P. Class III	110'
15"	R.C.P. Class IV	35'
18"	R.C.P. Class IV	146'
36"	R.C.P. Class IV	22'
54"	R.C.P. Class IV	50'
66"	R.C.P. Class IV	44'

Reviewed for: HOWARD S.C.D.
Name
and meets Technical Requirements
Signature: William V. Rowe Date: 11-2-79
U.S. Soil Conservation Service

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Approved: William V. Rowe 11-2-79 Date

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Approved: Alan O. Borg 10/15/79 Date

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Approved: Alan O. Borg 10/15/79 Date

NO.	REVISION	DATE
1.	Revised Outfall at Structure 5-17 and added Rip Rap to outside slope of curve	7-2-80

APPROVED: Department of Public Works
Allen J. Brown 11/8/79 Date
Chief, Bureau of Engineering

APPROVED: Howard County Office of Planning & Zoning
William V. Rowe 11-5-79 Date
Chief, Division of Land Development

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

DESIGNED: R.J.S.
DRAWN: K.I.W.
CHECKED: R.J.S.
DATE: July, 1979

ROAD CONSTRUCTION PLANS PROFILES AND DETAILS

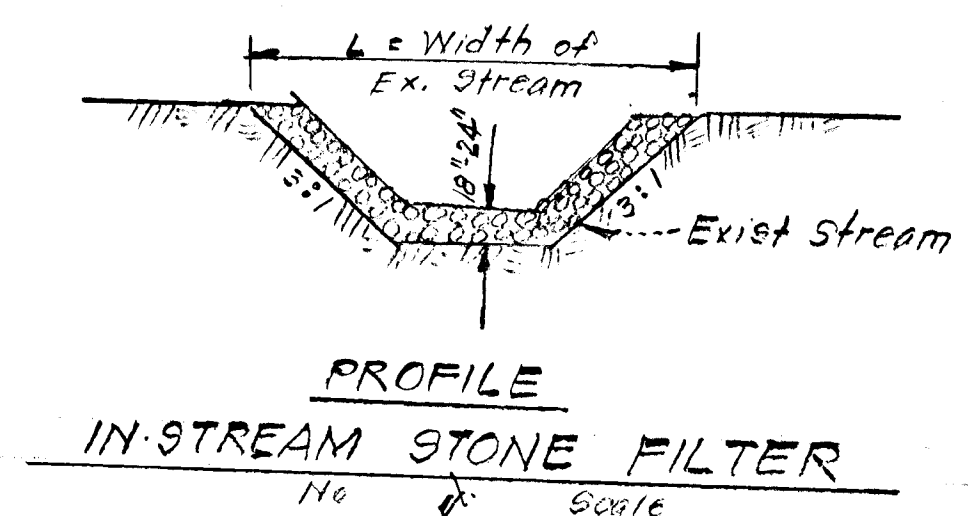
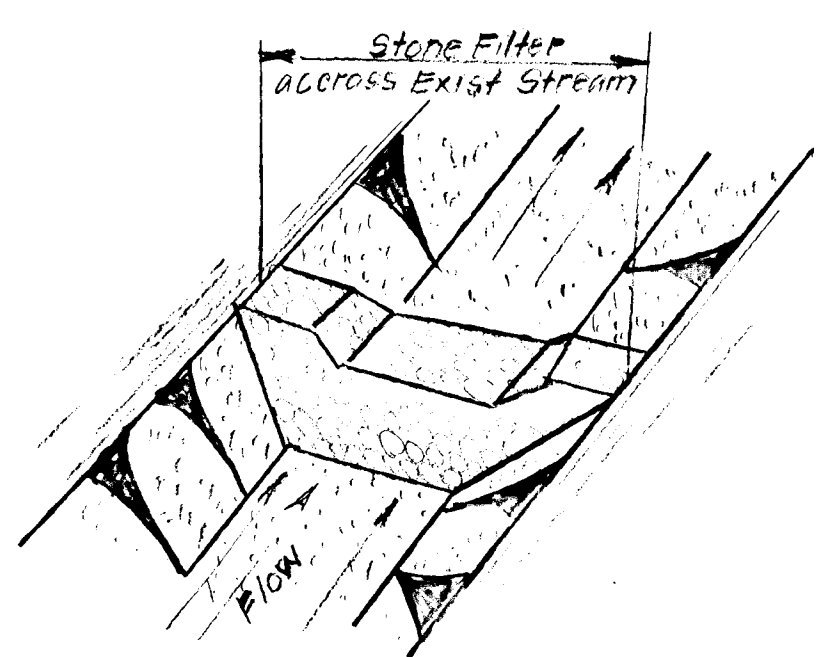
SIMPSON WOODS

SECTION THREE
5th ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

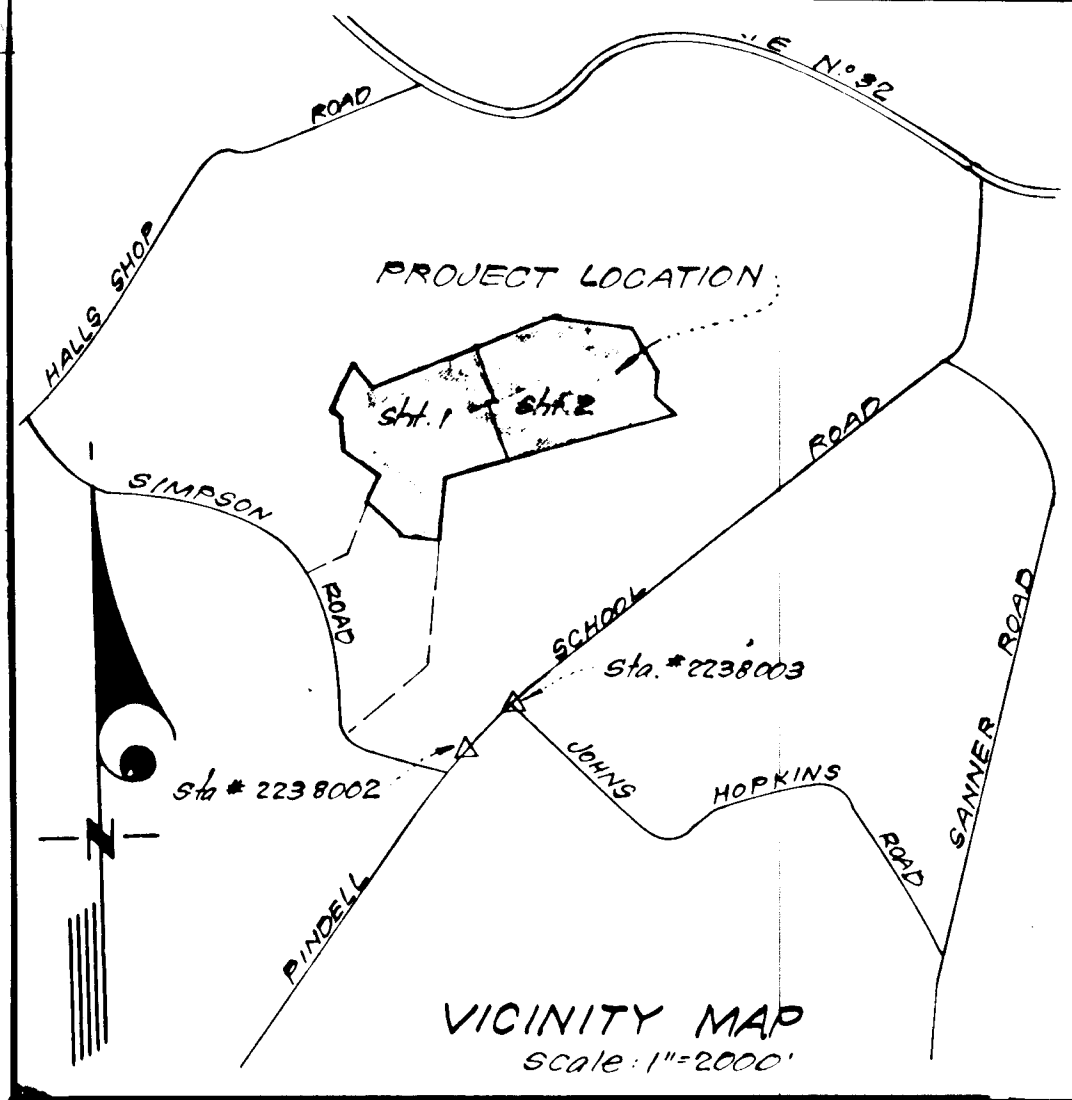
FOR: PHASE TWO LIMITED OF LANDBORG INC.
Teachers Building Suite 304
Columbia, Md. 21044

SCALE: As Shown
DRAWING: 50 of 8
JOB NO.:
FILE NO.: 79-015-D



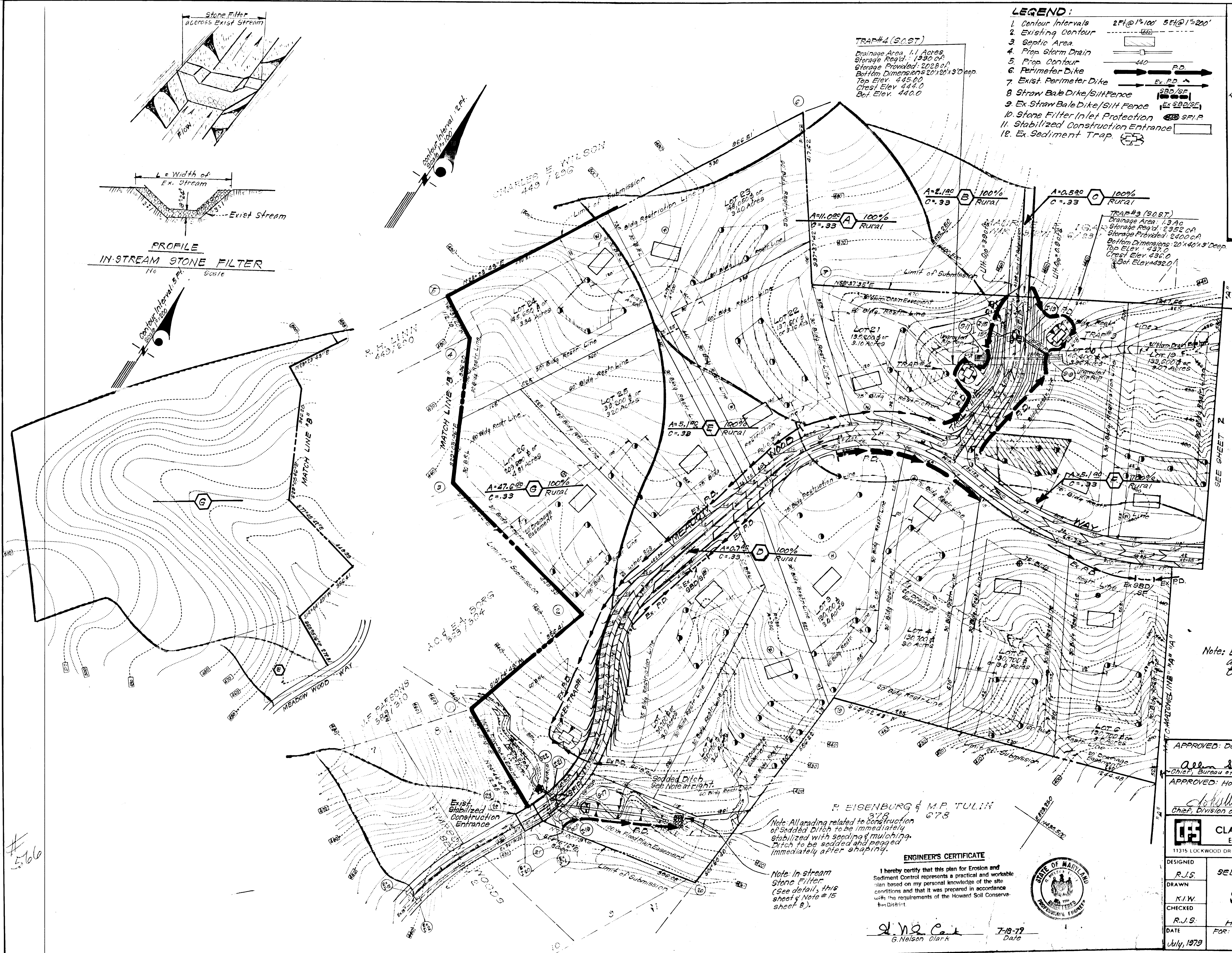


- LEGEND:**
1. Contour Intervals 2F @ 1' = 100' 5F @ 1' = 200'
 2. Existing Contour
 3. Septic Area
 4. Prop. Storm Drain
 5. Prop. Contour
 6. Perimeter Dike
 7. Exist. Perimeter Dike
 8. Straw Bale Dike/Silt Fence
 9. Ex. Straw Bale Dike/Silt Fence
 10. Stone Filter Inlet Protection
 11. Stabilized Construction Entrance
 12. Ex. Sediment Trap



TRAP #4 (S.O.S.T.)
 Drainage Area: 1.1 Acres
 Storage Req'd: 1590 c.f.
 Storage Provided: 2028 c.f.
 Bottom Dimensions: 20' x 20' x 3' Deep
 Top Elev: 445.0
 Crest Elev: 444.0
 Bot. Elev: 440.0

TRAP #3 (S.O.S.T.)
 Drainage Area: 1.3 Ac
 Storage Req'd: 1952 c.f.
 Storage Provided: 2400 c.f.
 Bottom Dimensions: 20' x 40' x 3' Deep
 Top Elev: 437.0
 Crest Elev: 436.0
 Bot. Elev: 432.0



Reviewed for: HOWARD S.C.D.
 Name
 and meets Technical Requirements
 Signature: [Signature] Date: 11-2-79
 U.S. Soil Conservation Service

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

William T. Rowe 11-2-79
 Approved Date

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Alan C. Berg 10/15/79
 Alan C. Berg Date

Note: Existing Sediment & Erosion Control approved by Howard Soil Conservation District (G.P. # 79-80).

P. EISENBERG & M.P. TULIN
 378
 678
 Note: All grading related to construction of Sodded Ditch to be immediately stabilized with seedling & mulching. Ditch to be sodded and pegged immediately after shaping.

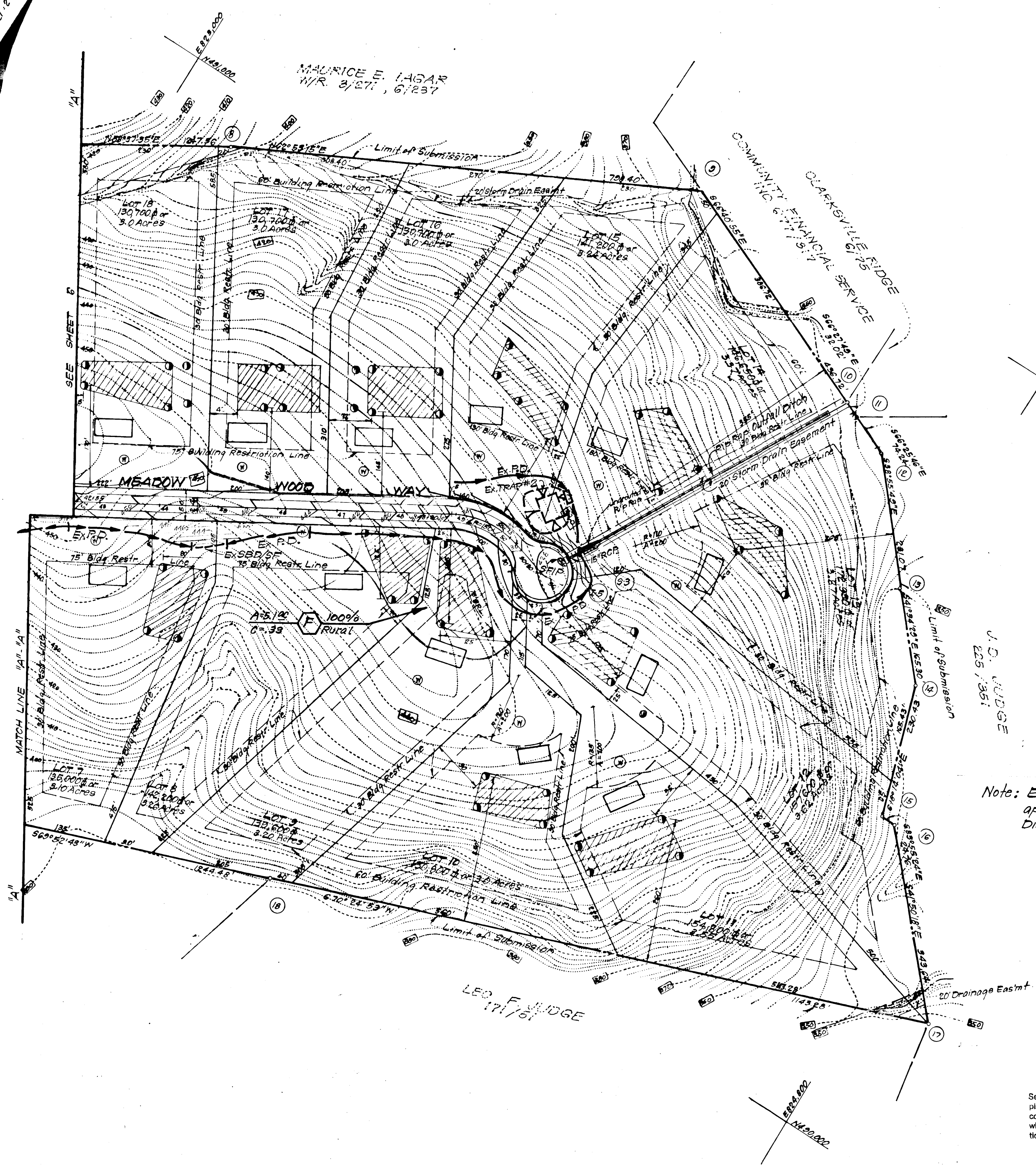
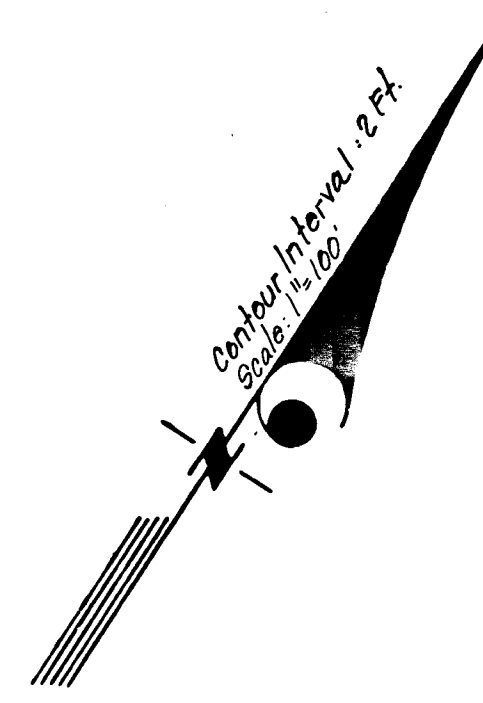
Note: In-stream Stone Filter (See detail, this sheet & Note # 15 sheet 8).

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 7-18-79
 G. Nelson Clark Date



APPROVED: Department of Public Works		
<u>Allen S. Brown</u>	11/8/79	Date
APPROVED: Howard County Office of Planning and Zoning		
<u>[Signature]</u>	11-5-79	Date
CLARK • FINEFROCK & SACKETT ENGINEERS • PLANNERS • SURVEYORS 11315 LOCKWOOD DRIVE SILVER SPRING, MARYLAND 20904 (301) 593 3400		
DESIGNED R.J.S.	ROAD CONSTRUCTION PLANS SEDIMENT & EROSION CONTROL PLAN AND DRAINAGE AREA MAP	SCALE 1" = 100'
DRAWN	SIMPSON WOODS	DRAWING 60P8
CHECKED R.J.S.	SECTION THREE 5th ELECTION DISTRICT	JOB NO. 79-015
DATE July, 1979	FOR: PHASE TWO LIMITED 96 LANDBORG, INC. Teachers Building, Suite 304 Columbia, Md 21044	FILE NO. 79-015-D



U.S. JUDGE
EOS / 1961

Note: Ex. Sediment & Erosion Control approved by Howard Soil Conservation District (G.P. # 79-80).

Reviewed for HOWARD S.C.D.
Name
and meets Technical Requirements
[Signature] 11-2-79
Signature Date
U.S. Soil Conservation Service

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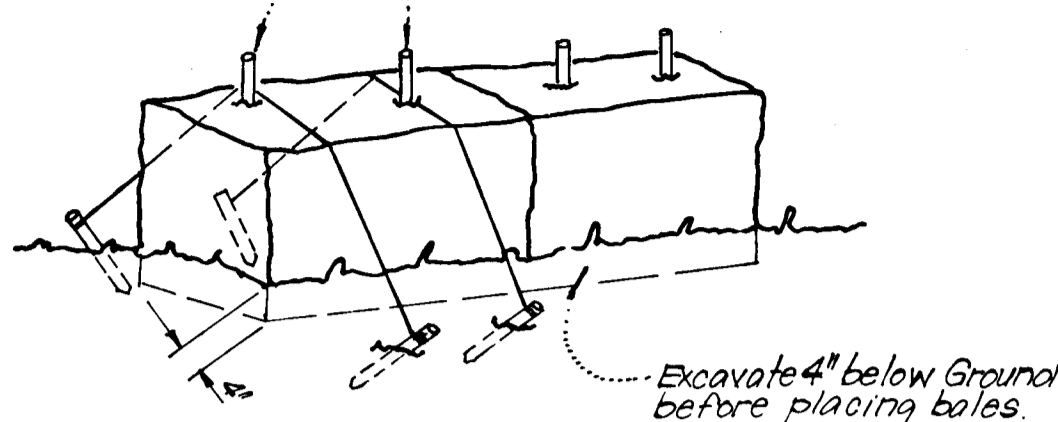
G. Nelson Clark 7-9-79
Date



APPROVED: Department of Public Works		
<u>Allen J. Brown</u>	11/8/79	Date
APPROVED: Howard County, Office of Planning and Zoning		
<u>[Signature]</u>	11-5-79	Date
CLARK • FINEPROCK & SACKETT ENGINEERS • PLANNERS • SURVEYORS 11315 LOCKWOOD DRIVE SILVER SPRING, MARYLAND 20904 (301) 593 3400		
DESIGNED RJS	ROAD CONSTRUCTION PLANS SEDIMENT & EROSION CONTROL PLAN AND DRAINAGE AREA MAP SIMPSON WOODS SECTION THREE 5th ELECTION DISTRICT HOWARD COUNTY, MARYLAND FOR: PHASE TWO LIMITED % LANDBORG, INC. Teachers Building, Suite 304 Columbia, Maryland 21044	SCALE 1"=100'
DRAWN		DRAWING 7 of 8
K.I.W. CHECKED		JOB NO. 79-015
RJS		FILE NO. 79-015-D
DATE July, 1979		

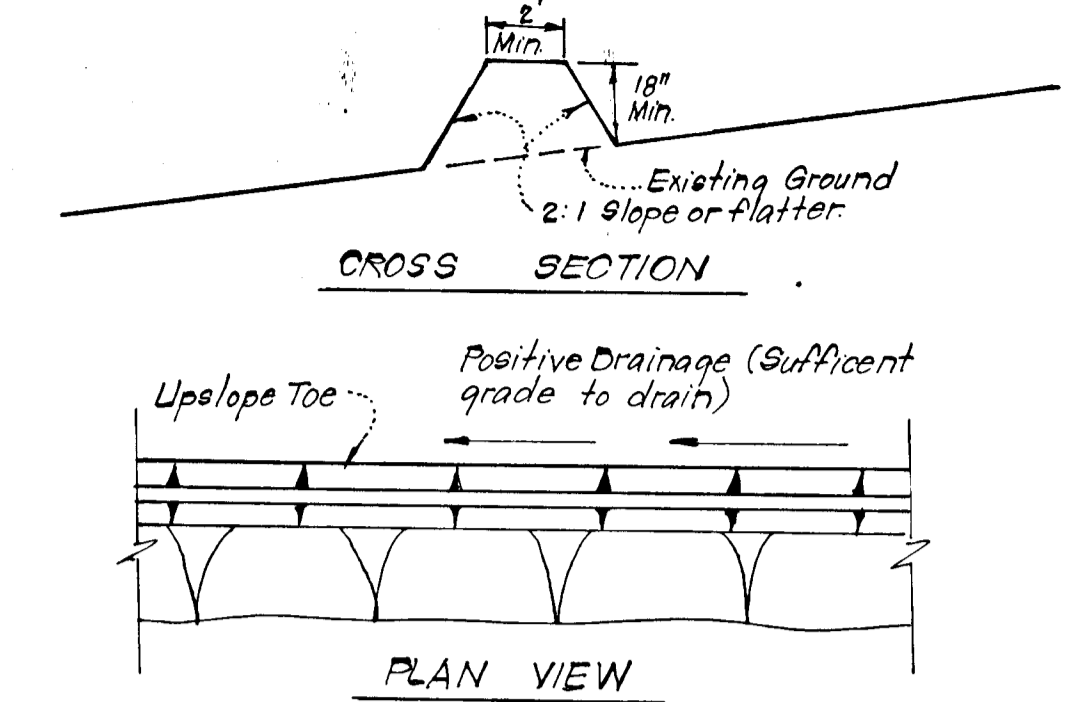
All bales shall be tied with non-weathering materials, i.e., wire, nylon.

Two rebars or wooden stakes driven through each hole 1/2" - 2" into ground. Rebars to be driven flush with top of bales.

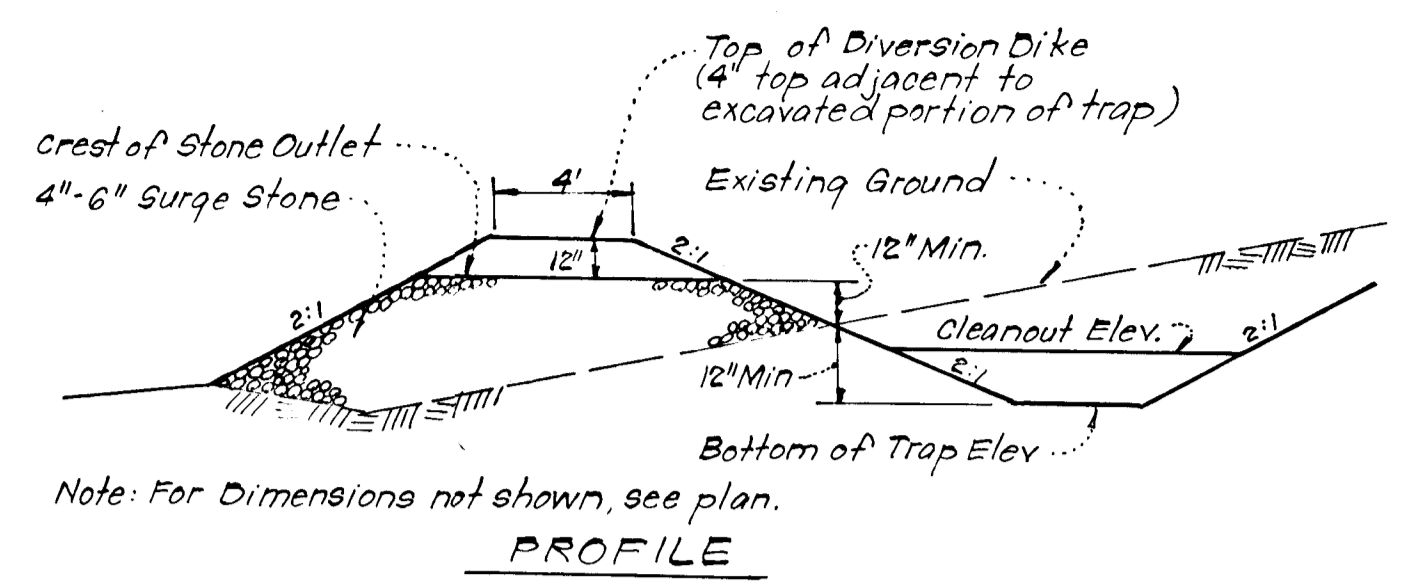


Note:
1. In lieu of the use of rebars each straw bale may be fastened to ground with pegs (4 per bale and wire or nylon as shown above).

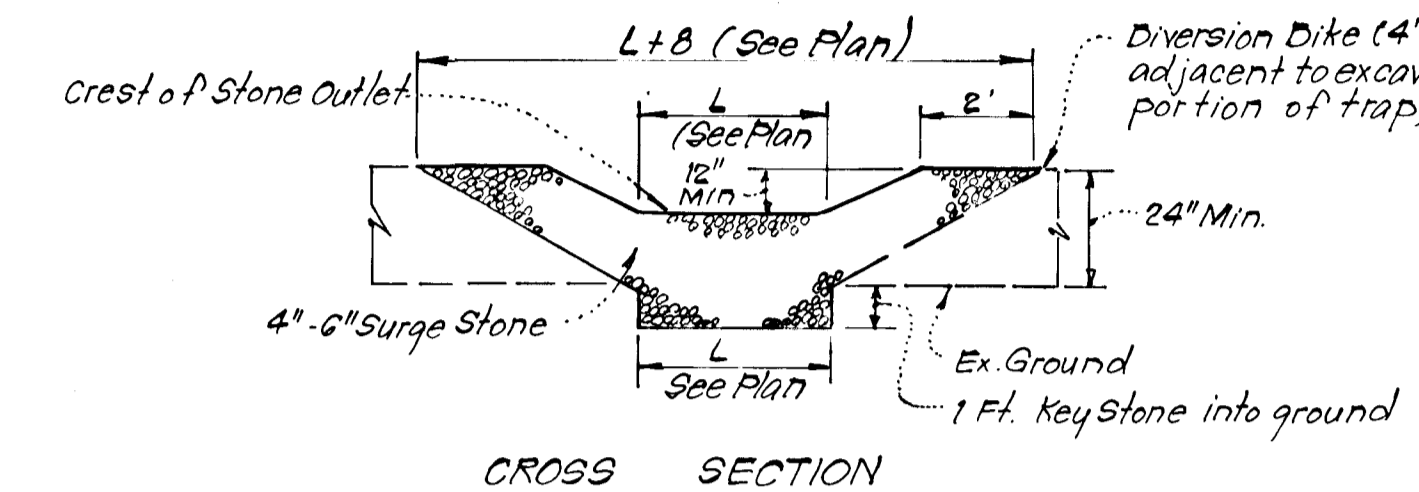
TYPICAL STRAW BALE DIKE DETAIL (S.B.D.)
No Scale



TYPICAL PERIMETER DIKE DETAIL (P.D.)
No Scale

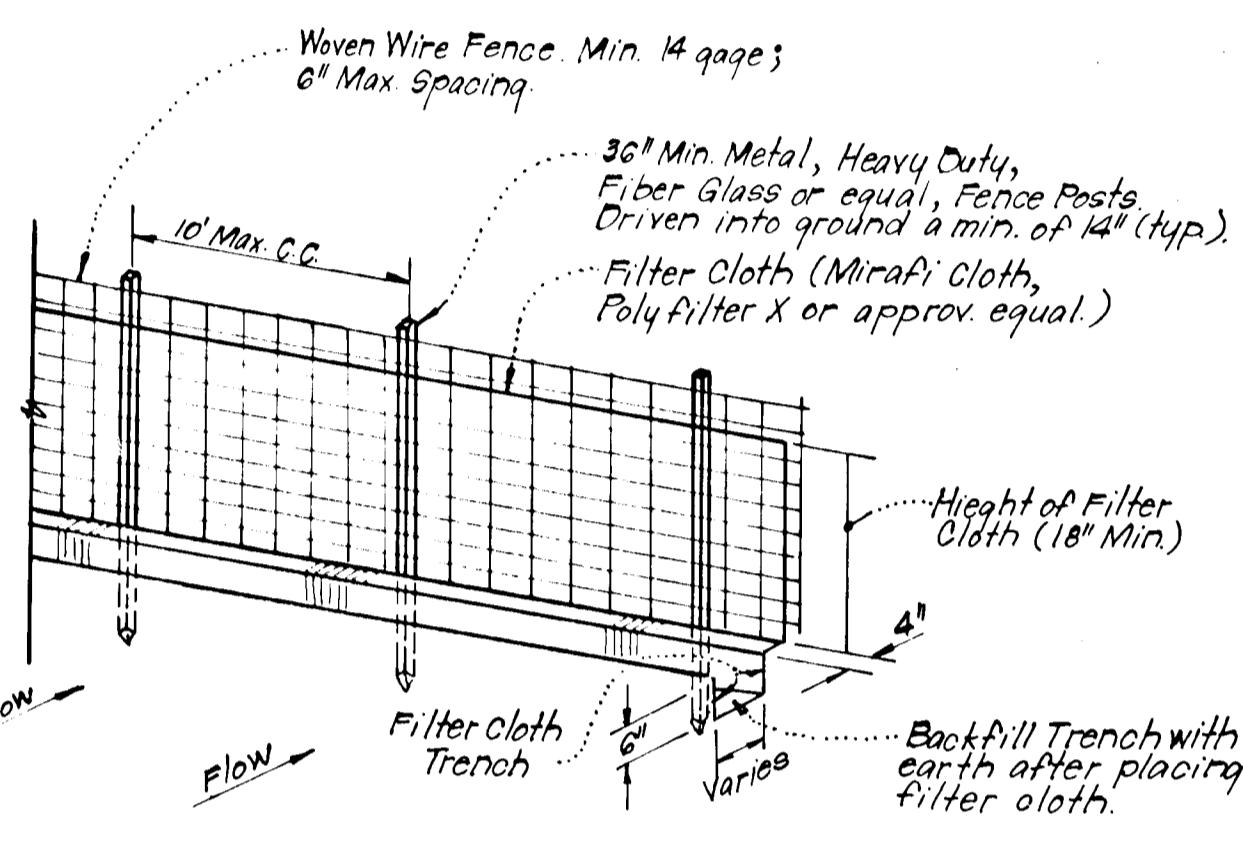


Note: For Dimensions not shown, see plan.



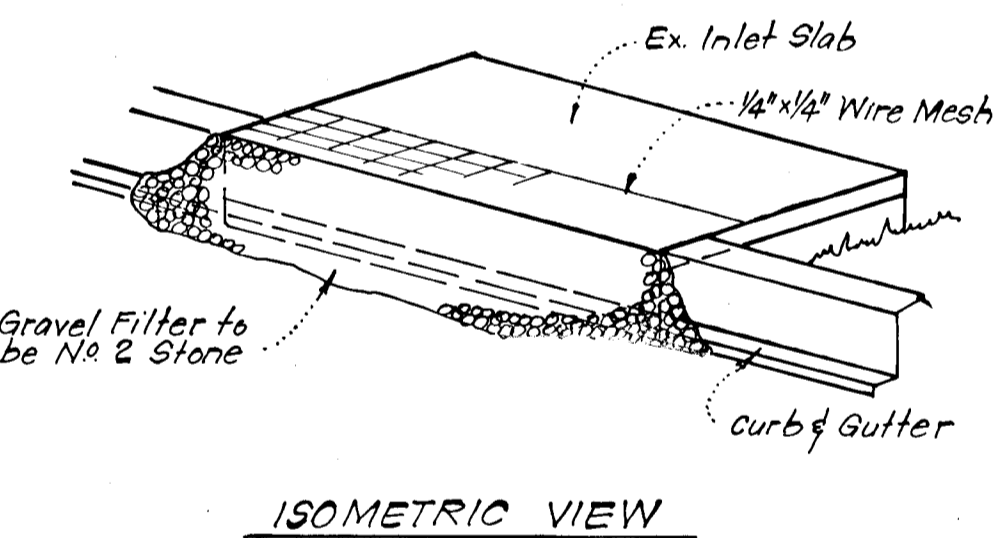
Notes:
1. Sediment Trap to be cleaned out when sediment reaches a level of 1 ft below crest of stone outlet.
2. Bottom of Sediment Trap to be level and constructed to the dimensions shown on plan.
3. Stone Outlet to be constructed through diversion dike adjacent to excavated portion of sediment trap.

DETAILS OF STONE FILTER OUTLET (FOR STONE OUTLET SEDIMENT TRAP)
No Scale

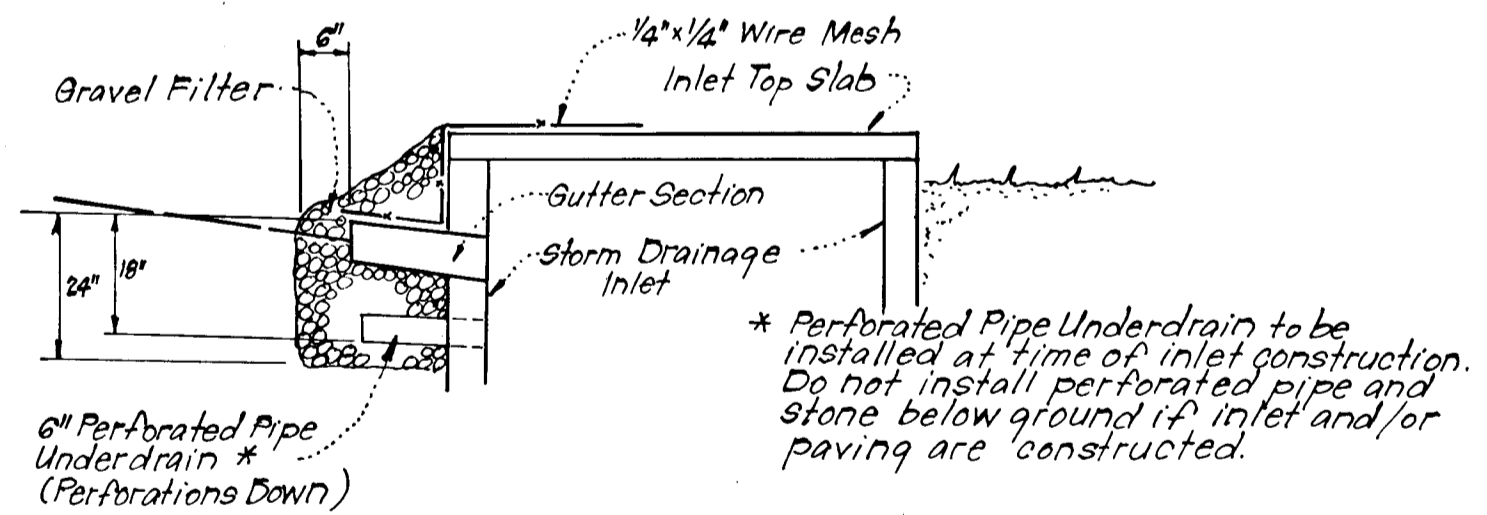


Notes:
1. Woven Wire Fence to be fastened securely to fence posts by use of wire ties.
2. Filter Cloth to be fastened securely to Woven Wire, by use of wire ties spaced every 24" x 24"

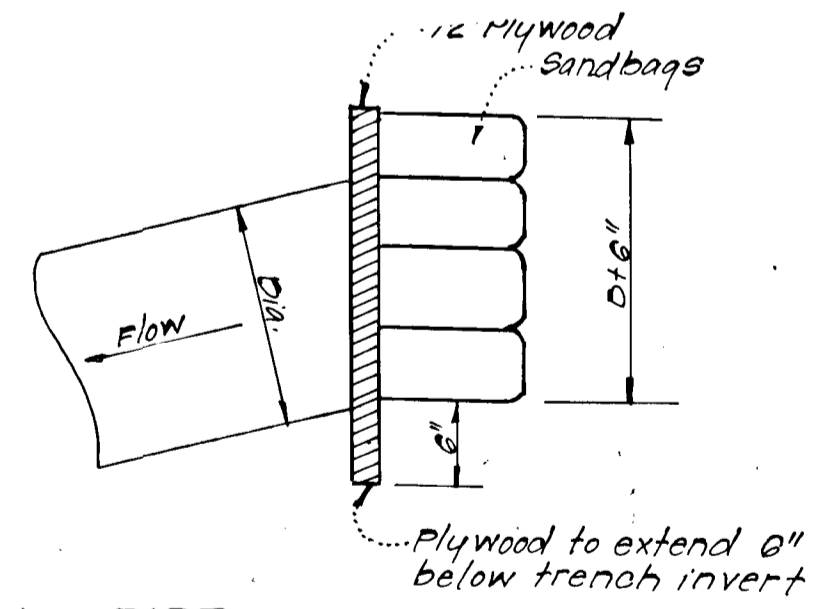
TYPICAL SILT FENCE DETAIL (S.F.)
No Scale



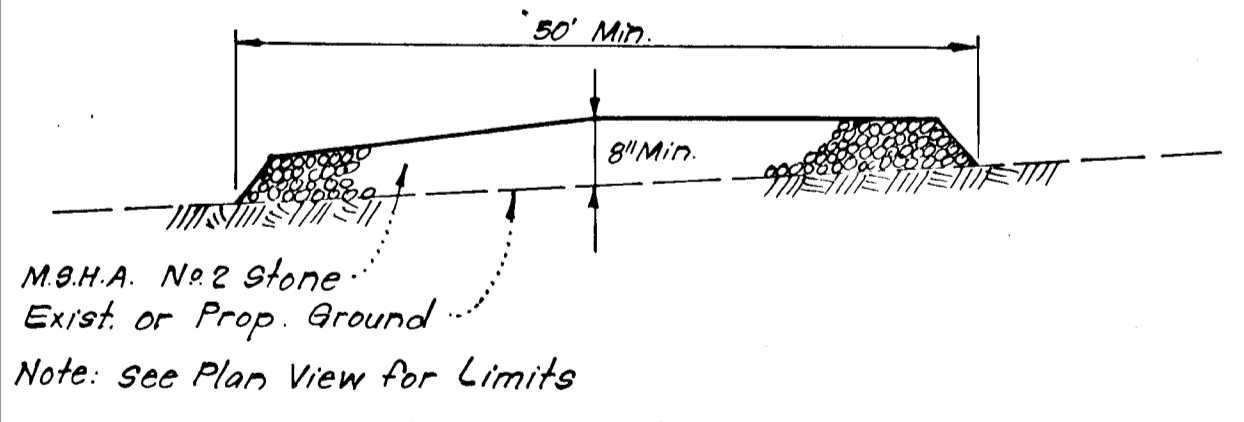
ISOMETRIC VIEW



STONE FILTER INLET PROTECTION (S.F.I.P.)
No Scale



PIPE BLOCKING DETAIL
No Scale



STABILIZED CONSTRUCTION ENTRANCE
No Scale

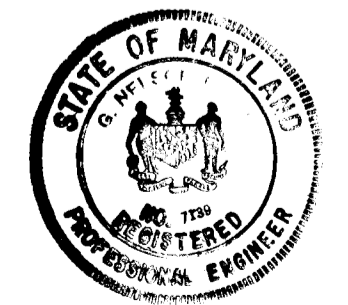
GENERAL NOTES

- 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 sq ft.
- 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 grading shall be treated in accordance with the following Specifications:
A. Seed - certified 85% germination applied at the rate of 5 lbs/1000 sq ft. Mixture - 40% Kentucky Blue, 20% chewing Fescue, 20% Kentucky 31 and 20% annual rye.
B. Fertilizer - 10-10-10 applied at a rate of 25 lbs/1000 sq ft. Ground Agricultural Lime or Dolomitic Lime applied at a rate of 46 lbs/1000 sq ft.
C. Mulch - Wood Pile grain straw applied at a rate of 46 lbs/1000 sq ft. Mulch shall be secured to the ground by any approved method i.e.; asphalt tacks, chemical binder, etc.
D. 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.
- SITE ANALYSIS:**
A. Total Area: 8.00 Acres
B. Area to be paved: 1.69 Acres
C. Area to be Seeded: 4.64 Acres
D. Area Undisturbed: 1.67 Acres.
- CONSTRUCTION SEQUENCE:**
A. Inspect and maintain all ex. sediment & erosion control devices as shown on G.R.#73-80, to insure that they are functional. Install all additional P.D.'s & S.B.D./S.F.'s as shown on these plans.
B. Rough grade Tall Pine Way and install all storm drainage and S.F.I.P.'s. Remove Temporary 36" C.M.P. after the storm drainage from S-22 through S-17 is installed.
C. Construct Paving.
D. Stabilize all disturbed areas in accordance with note #6.
E. Sediment and Erosion Control Devices to be removed only after areas draining to these Devices have been stabilized.
- It is extremely important to control all sediment & erosion in the area draining to the existing pond downstream of Str. 9-7 (See plan). Sediment & Erosion control measures shown shall be adjusted and additional measures provided, should field conditions warrant.
- In-stream Stone Filter will be cleaned after each rainfall. Excavate an area upstream of the stone filter for sediment storage.

Reviewed for Howard Name S.C.D.
and meets Technical Requirements
James M. Helms Signature 11-2-79 Date
U.S. Soil Conservation Service
THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

DEVELOPER'S CERTIFICATE
I certify that all development and/or construction will be done according to this plan of development and plan for Erosion and Sediment Control, and I also authorize periodic on-site inspection by the Howard Soil Conservation District or their authorized agents as are deemed necessary. Deviation from this plan will not be made unless authorized 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.



APPROVED: Department of Public Works
Allen L. Brown 11/8/79
Chief, Bureau of Engineering Date

APPROVED: Howard County Office of Planning and Zoning
William W. Munn 11-5-79
Chief, Division of Land Development Date

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

DESIGNED R.J.S.	ROAD CONSTRUCTION PLANS SEDIMENT & EROSION CONTROL PLAN	SCALE As Shown
DRAWN K.I.W.	SIMPSON WOODS	DRAWING BofB
CHECKED R.J.S.	SECTION THREE 5th ELECTION DISTRICT HOWARD COUNTY, MARYLAND	JOB NO.
DATE July, 1979	FOR: PHASE TWO LIMITED % LAND BORG, INC. Teachers Building, Suite 304 Columbia, Maryland 21044	FILE NO. 78-015-D

William J. Rowe 11-2-79
Approved Date

Alan C. Borg 10/15/79
Signature Date

Clark F. Finefrock 7-18-79
Signature Date

#566