

No	Date	Revision
1	5-27-83	Removed White Pine Place Revised by T.S.6A

Reviewed for... Howard... S.C.D.
Name
and meets Technical Requirements
James M. McLaughlin...
Signature Date
U.S. Soil Conservation Service

DEVELOPER'S/BUILDER'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."
William A. Hester
Signature of Developer/Builder
6-1-81
Date

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
William J. Hester 5-18-81
Approved Date

APPROVED: Department of Public Works
James E. Quinn 8/19/81
Chief, Bureau of Engineering
APPROVED: Howard County Office of Planning and Zoning
S. Kipley (Acting Chief) 8-11-81
Chief, Division of Land Development & Zoning Administration



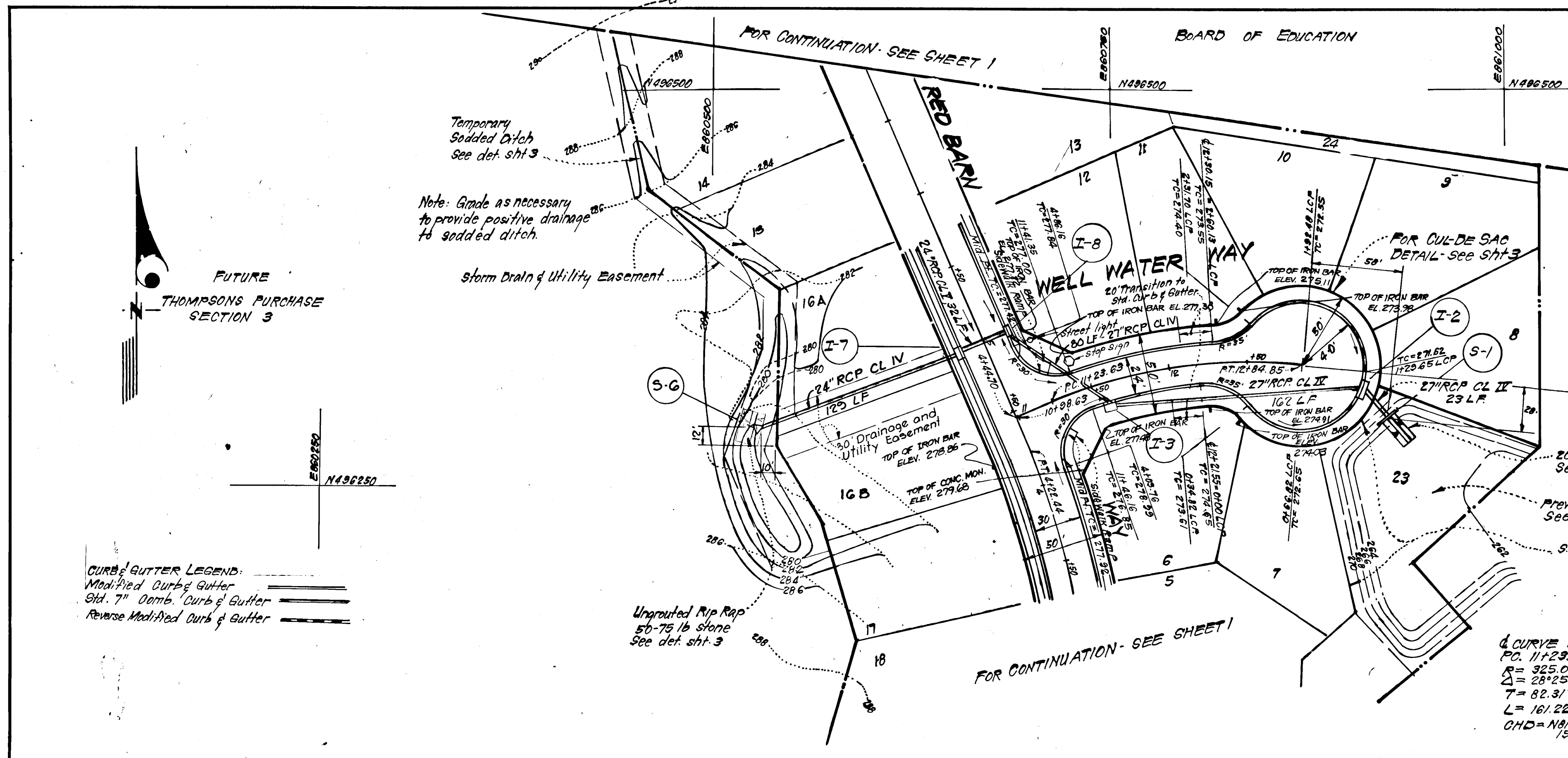
CLARK FINEFROCK & SACKETT ENGINEERS PLANNERS SURVEYORS		(301) 593-3400
1136 LOCKWOOD DRIVE SILVER SPRING, MARYLAND 20904		
DESIGNED	ROAD CONSTRUCTION PLANS WHITE PINE PLACE & WELL WATER WAY	SCALE As Shown
DRAWN	THOMPSONS PURCHASE	DRAWING 2 of 5
CHECKED	SECTION TWO	JOP NO.
	1ST ELECTION DISTRICT	81-018
	HOWARD COUNTY, MARYLAND	FILE NO.
DATE	FOR: RIDGELY ASSOCIATES P.O. Box 16203 Baltimore, Md 21210	81-018-D
5-18-81		

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 5-19-81
G. Nelson Clark Date

CURVE DATA
P.C. 11+29.63 to P.T. 12+84.95
R = 325.00'
Δ = 28°25'20"
T = 82.31'
L = 161.22'
CHD = N81°27'40"E
153.57'

AS-BUILT SURVEY CERTIFIED BY
THOMAS E. DITMAN, M.D. REG. PROF.
ERTY SURVEYOR NO. 220 7-16-85

PLAN
SCALE: 1" = 50'



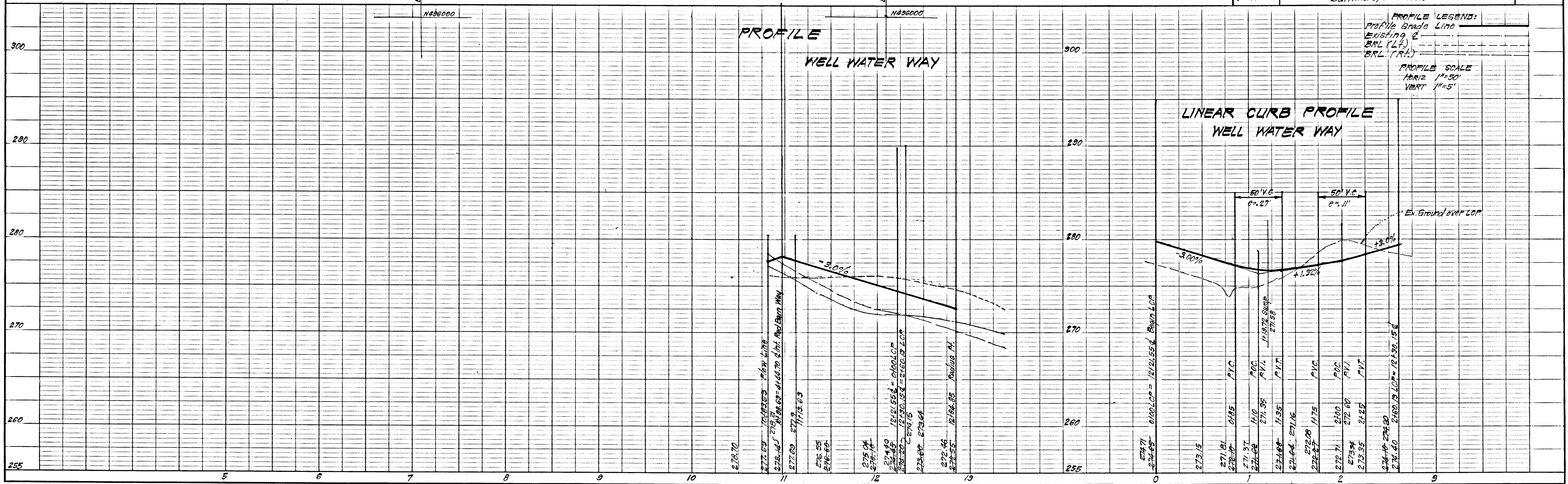
FUTURE
THOMPSONS PURCHASE
SECTION 3

CURB & GUTTER LEGEND:
Modified Curb & Gutter
Std. 7" Dome Curb & Gutter
Reverse Modified Curb & Gutter

PROFILE

WELL WATER WAY

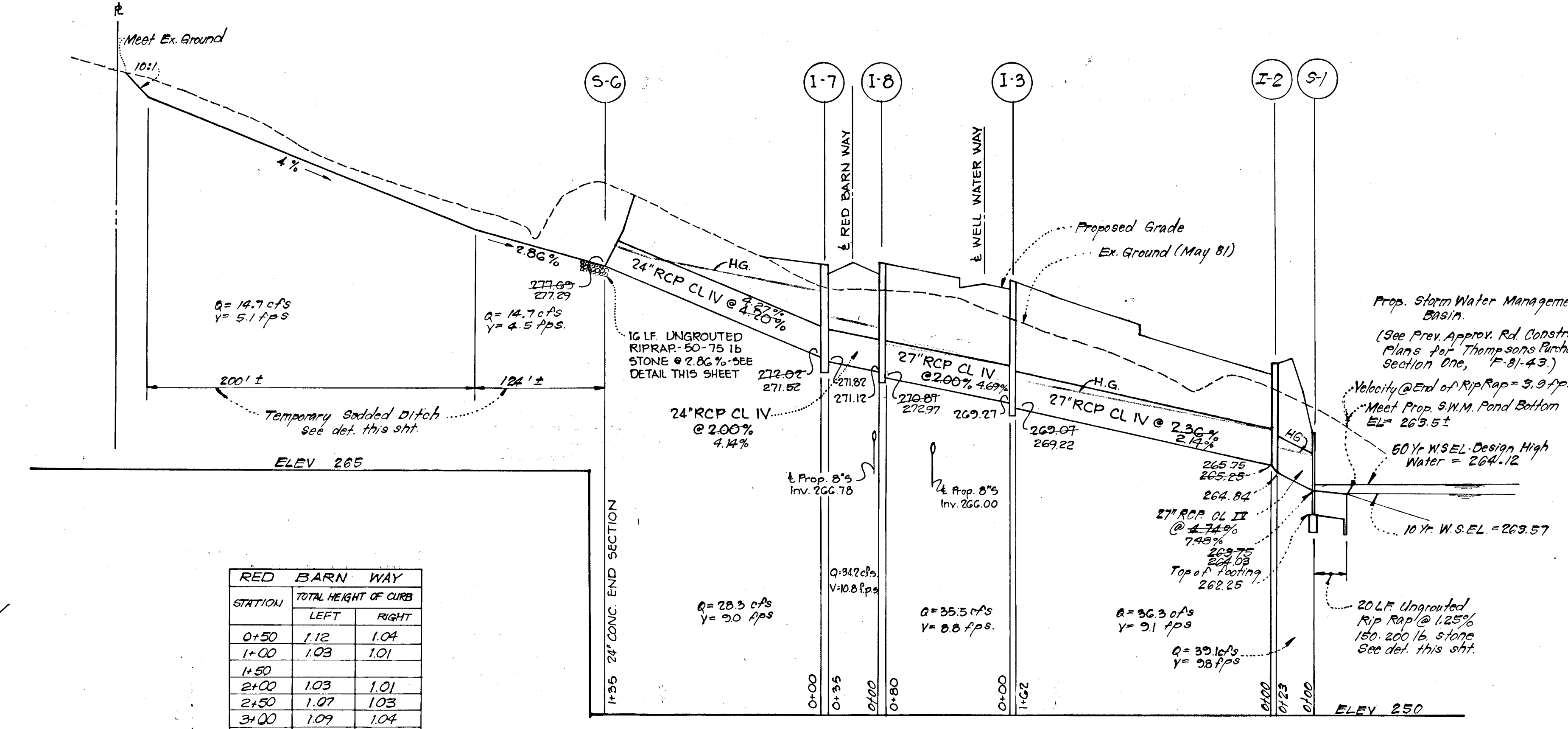
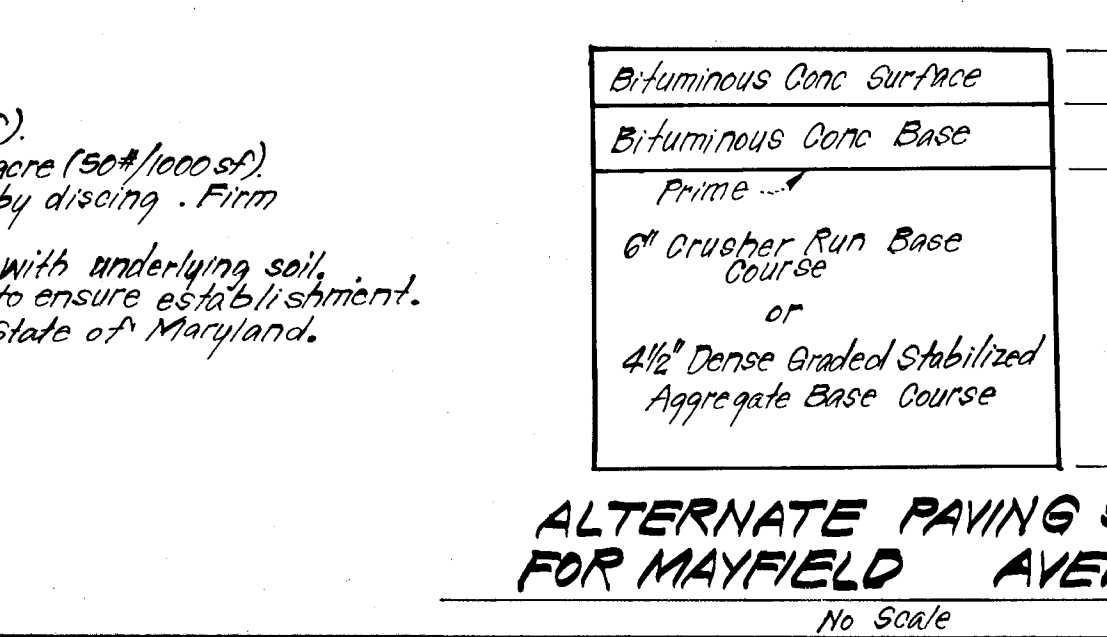
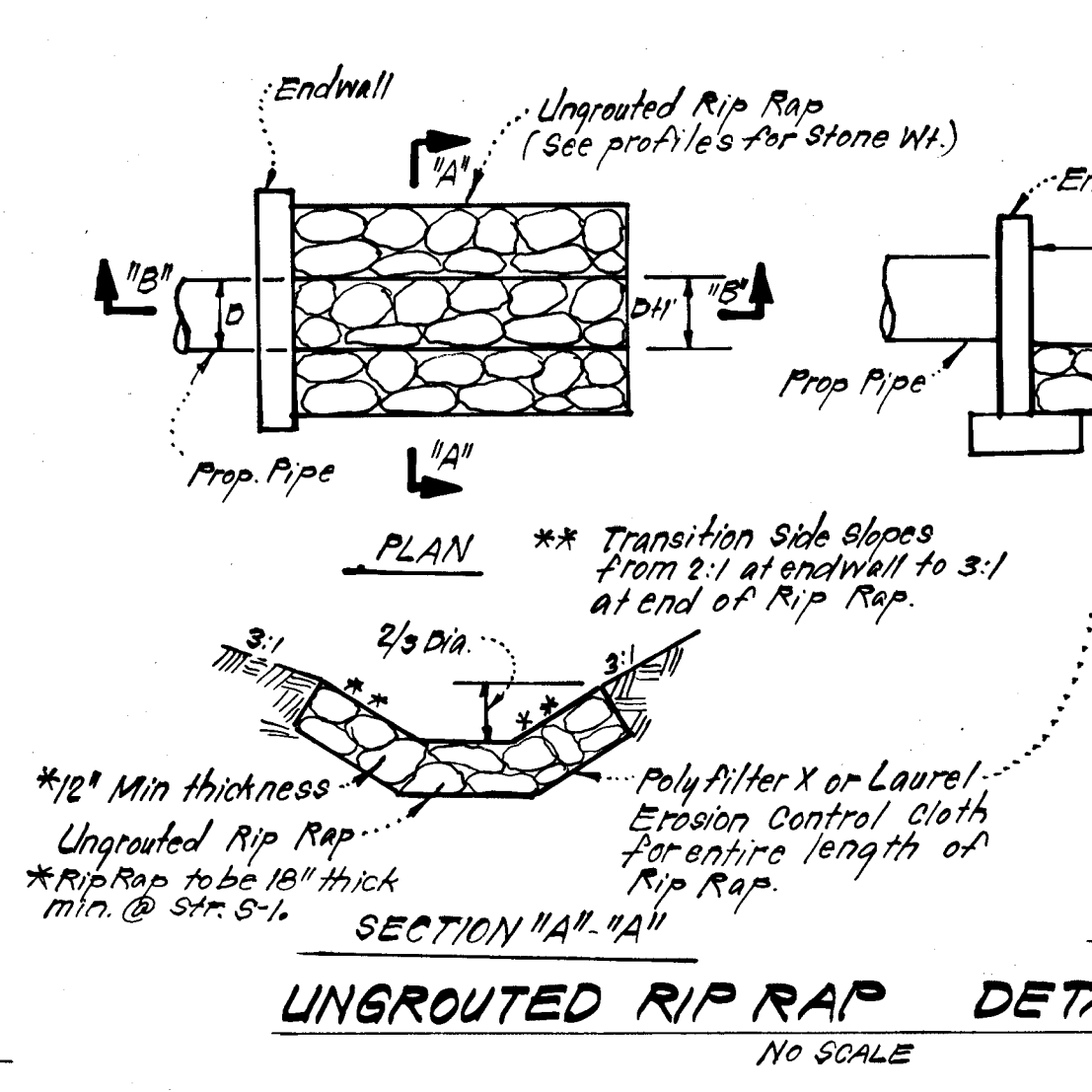
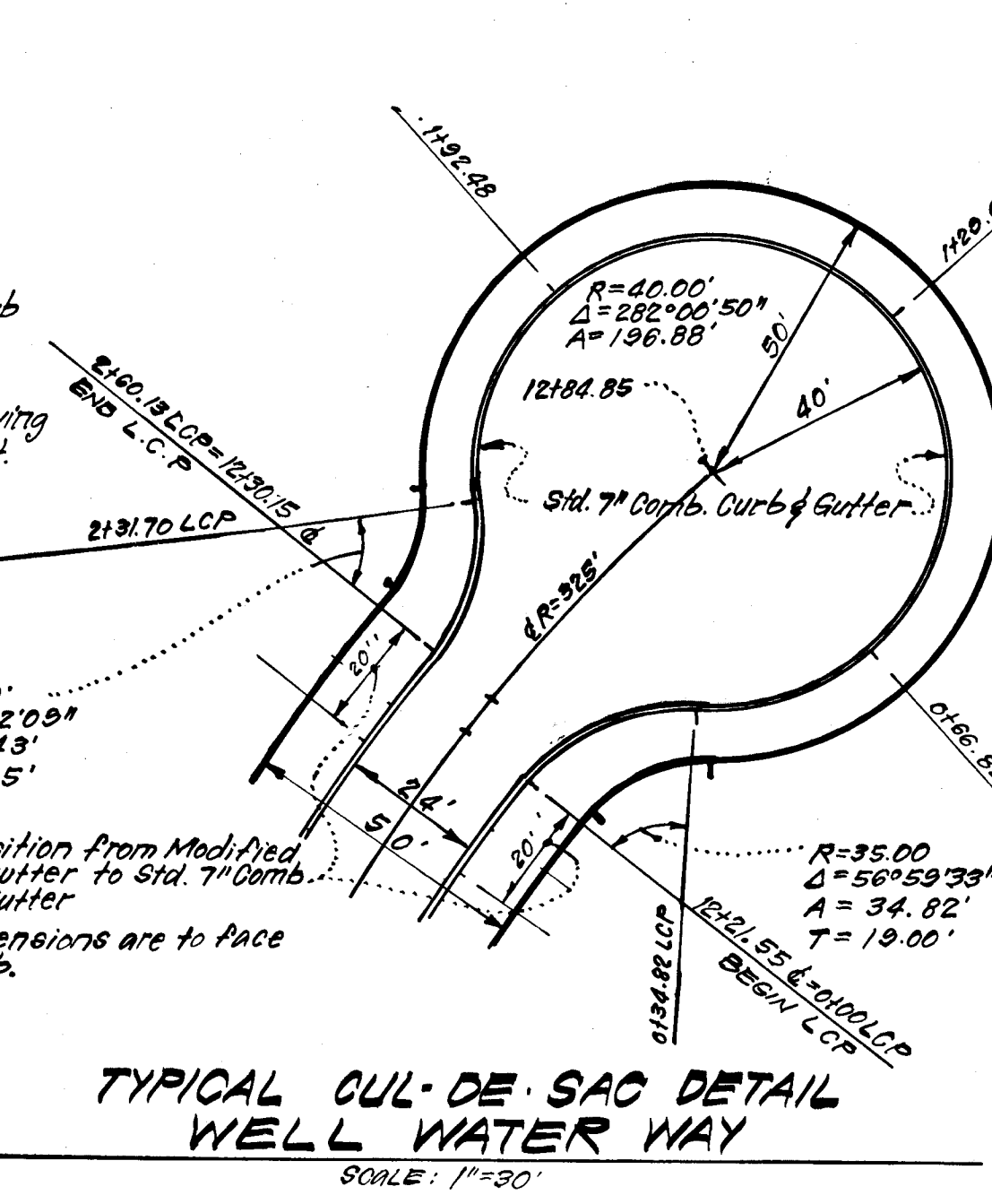
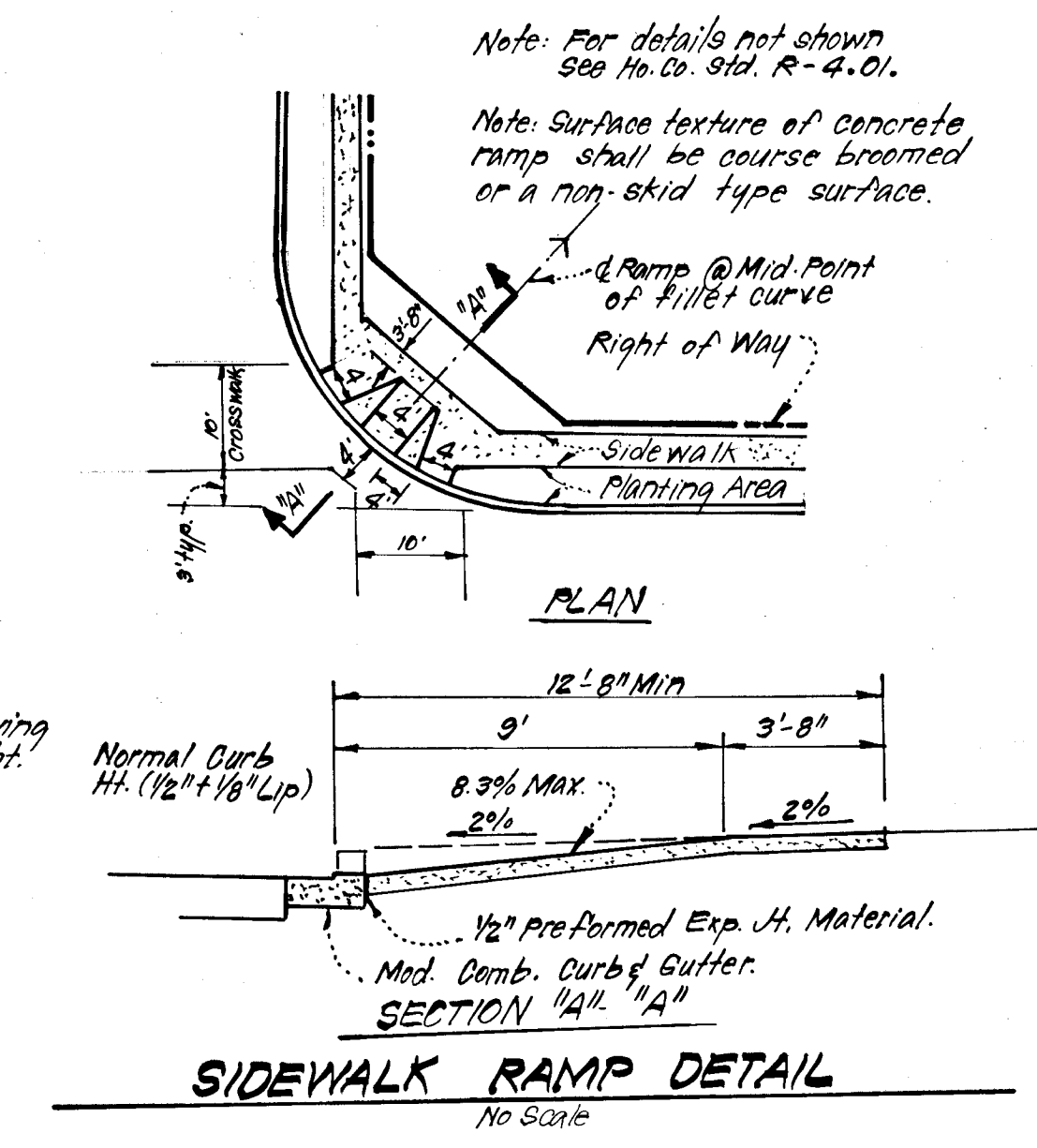
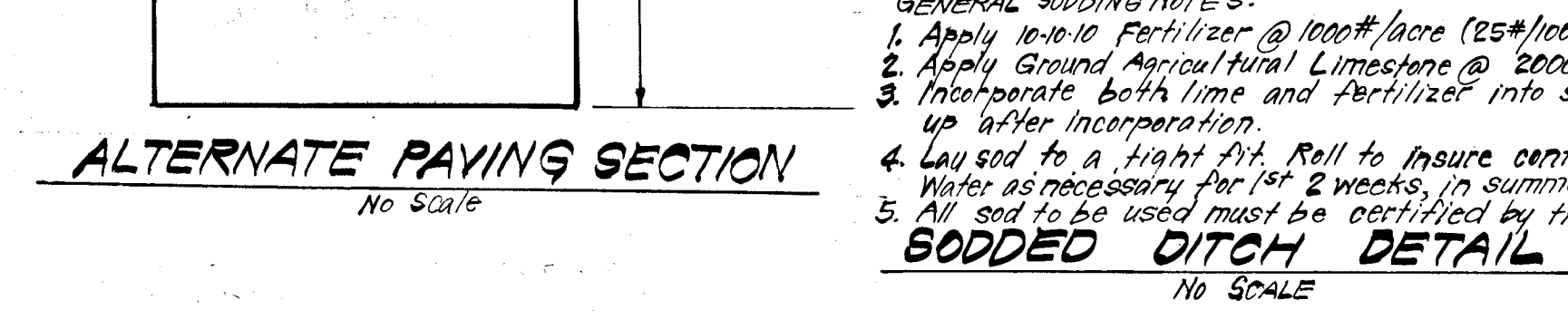
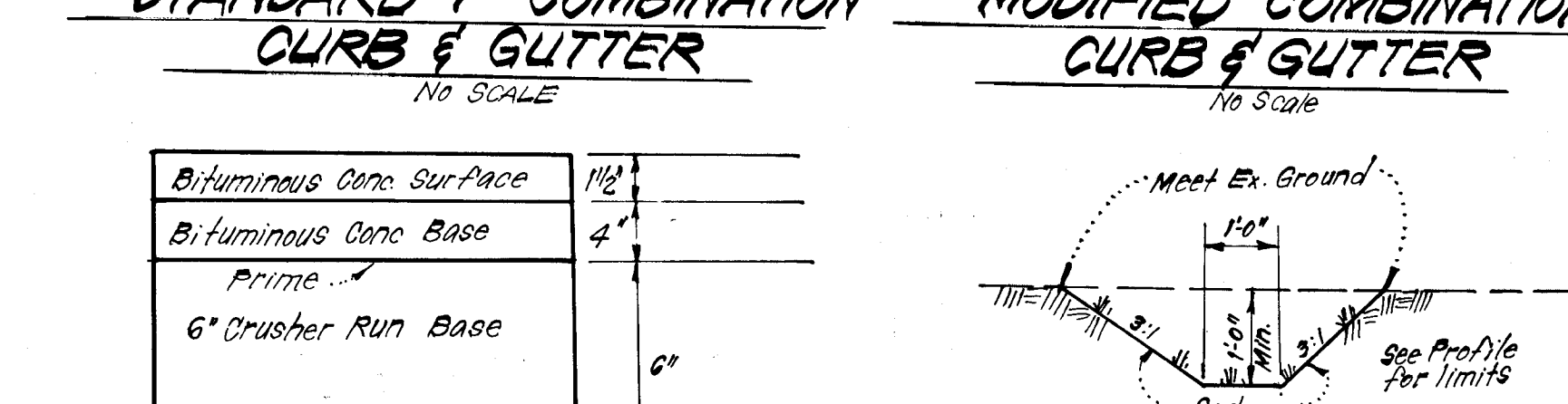
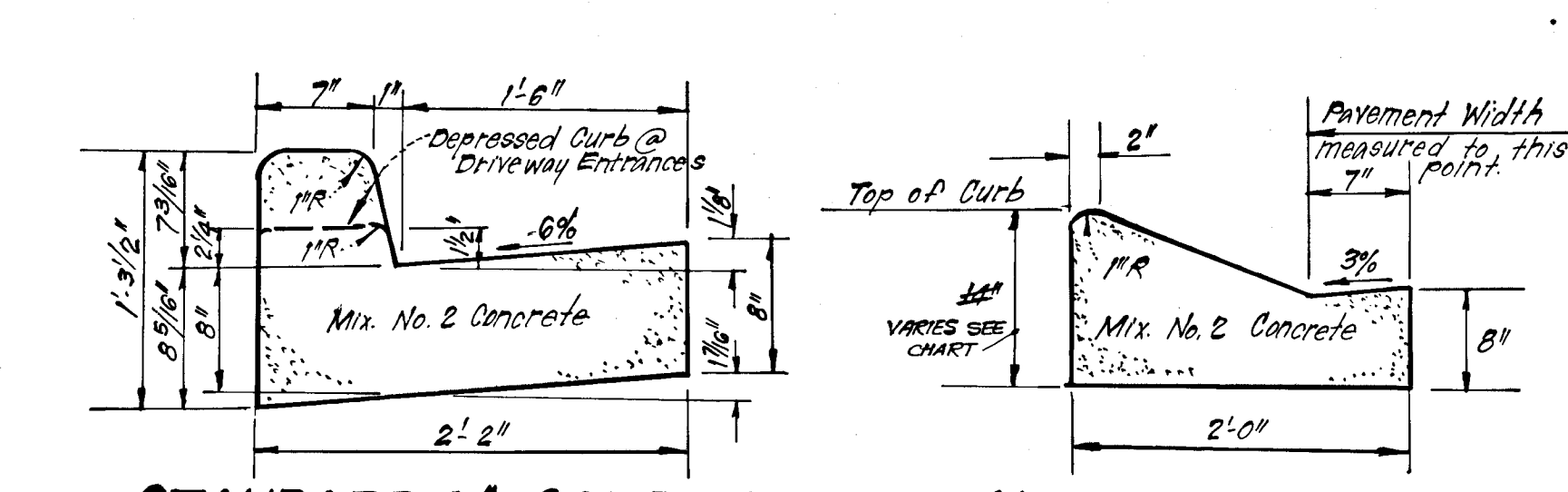
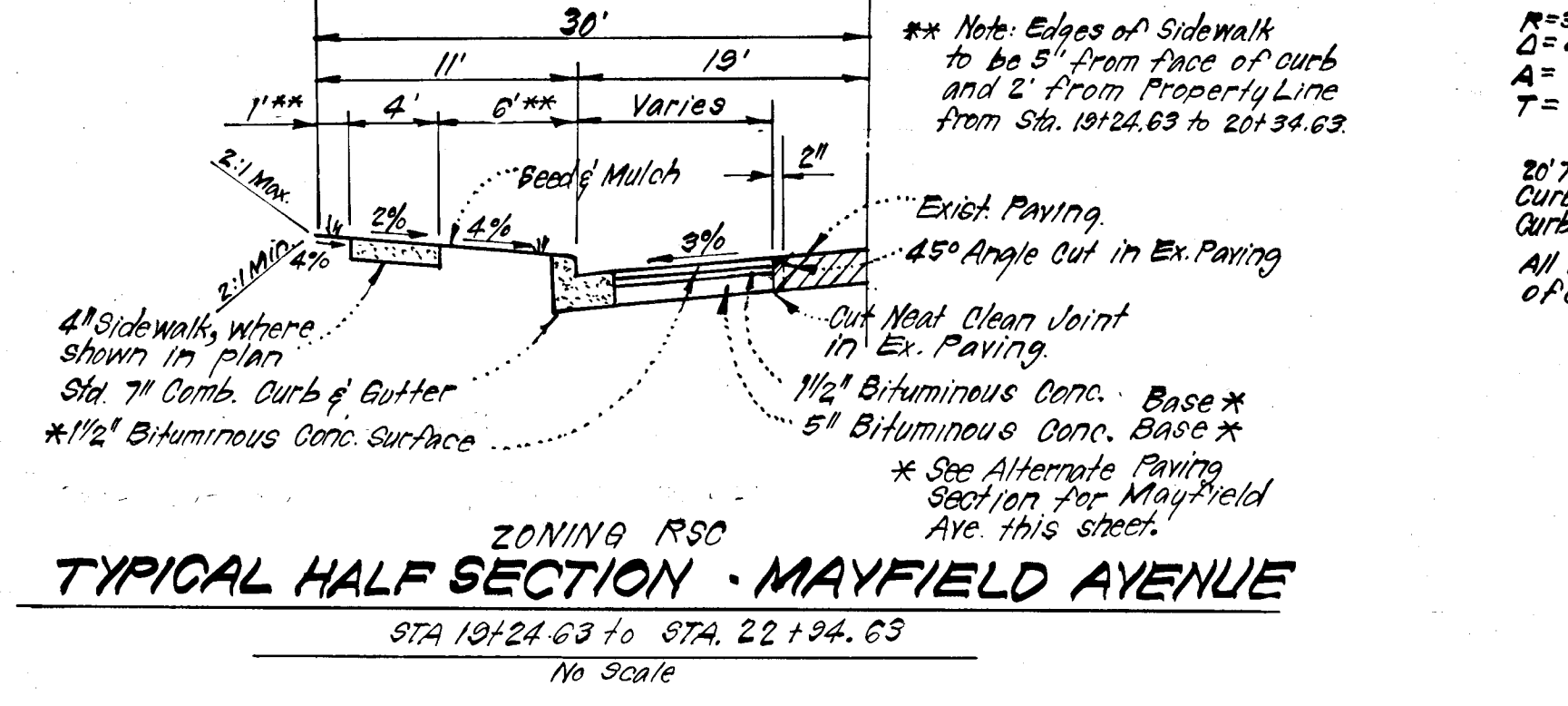
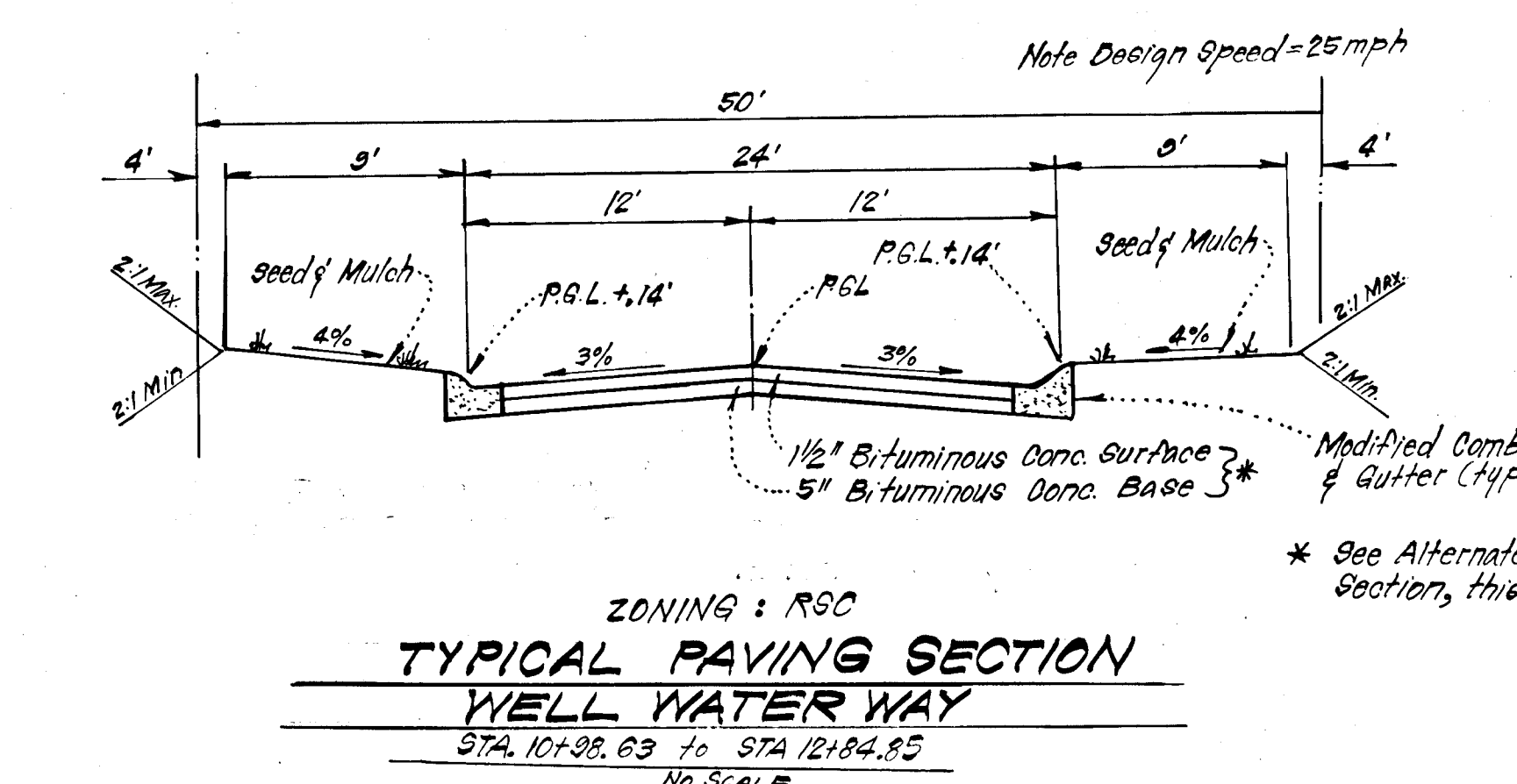
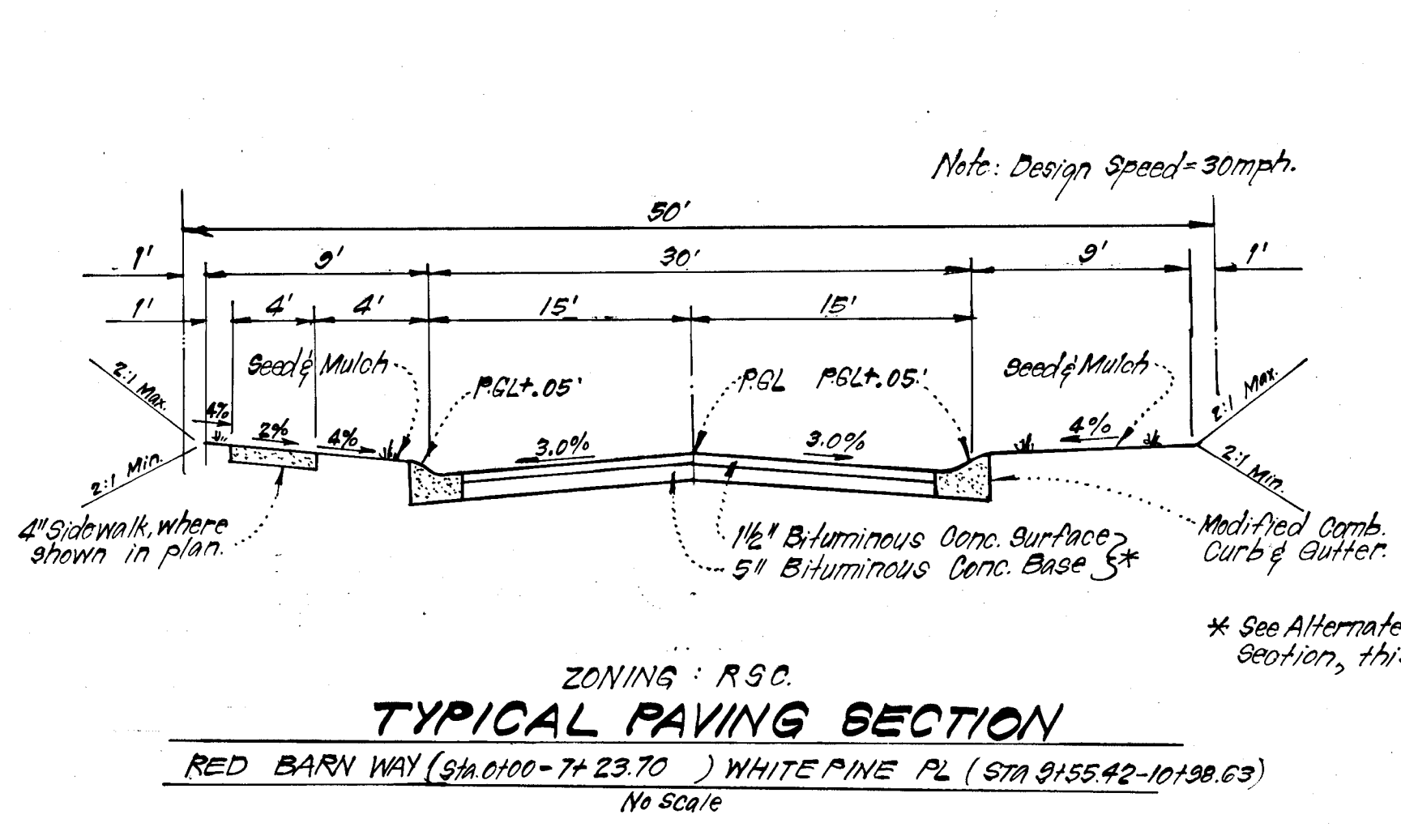
LINEAR CURB PROFILE
WELL WATER WAY



PROFILE LEGEND:
Profile Grade Line
Existing G.
BRL (L.P.)
BRL (R.P.)

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

#483



RED BARN WAY

STATION	TOTAL HEIGHT OF CURB	
	LEFT	RIGHT
0+50	1.12	1.04
1+00	1.03	1.01
1+50	1.03	1.01
2+00	1.07	1.03
2+50	1.07	1.04
3+00	1.07	1.04
3+50	1.07	1.07
4+00	1.04	1.00
5+00	1.13	1.07
5+50	1.03	1.07
6+00	1.04	1.04
6+50	1.04	1.03
WELL WATER WAY		
11+75	1.13	1.11
12+00	1.19	1.08
12+21	1.23	1.1

STRUCTURE SCHEDULE

No	TYPE	INV IN	INV OUT	TOP ELEV		REMARKS	LOCATION
				UPPER	LOWER		
* S-1	C-2 ENDWALL	263.75	267.25	267.25	267.25	Ho. Co. Std. Fig. SD/5.21 Dia = 30"	See Plan
I-2	A-10 INLET	265.25	268.84	271.58	271.58	Ho. Co. Std. Fig. SD/4.02 W=2'-6"	at Str. 1+19.72 L.C.P.
I-3	A-5 INLET W/DEFLECT.	263.27	269.07	276.50	276.38	Ho. Co. Std. Fig. SD/4.01 W=3'-6"	at Str. 11+56.12/14 Well Water Way
I-7	A-10 INLET	272.02	271.82	277.83	277.83	Ho. Co. Std. Fig. SD/4.02 W=2'-6"	at Str. 4+25.45/15 Lt. Red Barn Way
I-8	A-5 INLET	271.12	270.87	277.83	277.83	Ho. Co. Std. Fig. SD/4.01 W=3'-6"	at Str. 4+25.45/15 Rt. Red Barn Way
* S-6	24" Conc. End Sect.	-	277.63	-	-	Ho. Co. Std. Fig. SD 5.51	See Plan

See Ho. Co. Std. 1719, SD. 4.83 for Inlet Deflectors.

* Increase H Dimensions by 1'-0" @ Str. S-1 and 1'-0" @ Str. S-6 to allow for Rip Rap Construction

PIPE SCHEDULE

No	TOP ELEV	INV. ELEV
S-1	266.85	264.83
I-2	271.40	265.75
I-3	276.57	269.22
I-7	277.47	271.92
I-8	277.72	272.97
S-6	-	277.29

PIPE SCHEDULE

SIZE	TYPE	LENGTH
24"	RCP CLASS II	170 LF
27"	RCP CLASS IV	265 LF

DEVELOPER'S/BUILDER'S CERTIFICATE

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Signature: *Melvin J. Thompson* Date: 6-1-81

AS-BUILT SURVEY CERTIFIED BY THOMAS R. DITMAN, MD. REG. PROPERTY SURVEYOR No. 220 1-3-85

12-27-83	Revised Alt Paving Section for Red Barn Way and Well Water Way. Revised by G.P.S.
6-27-83	Revised Storm Drain Profiles. Revised by T.S.&A
No Date	Revision

Reviewed for... *HOWARD COUNTY*... S.C.D. Name and meets Technical Requirements
Signature: *James M. Maloney* Date: 8/19/81
U.S. Soil Conservation Service

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

Approved: *William J. Rowe* Date: 8-20-81

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: *S. Nelson Clark* Date: 5-17-81



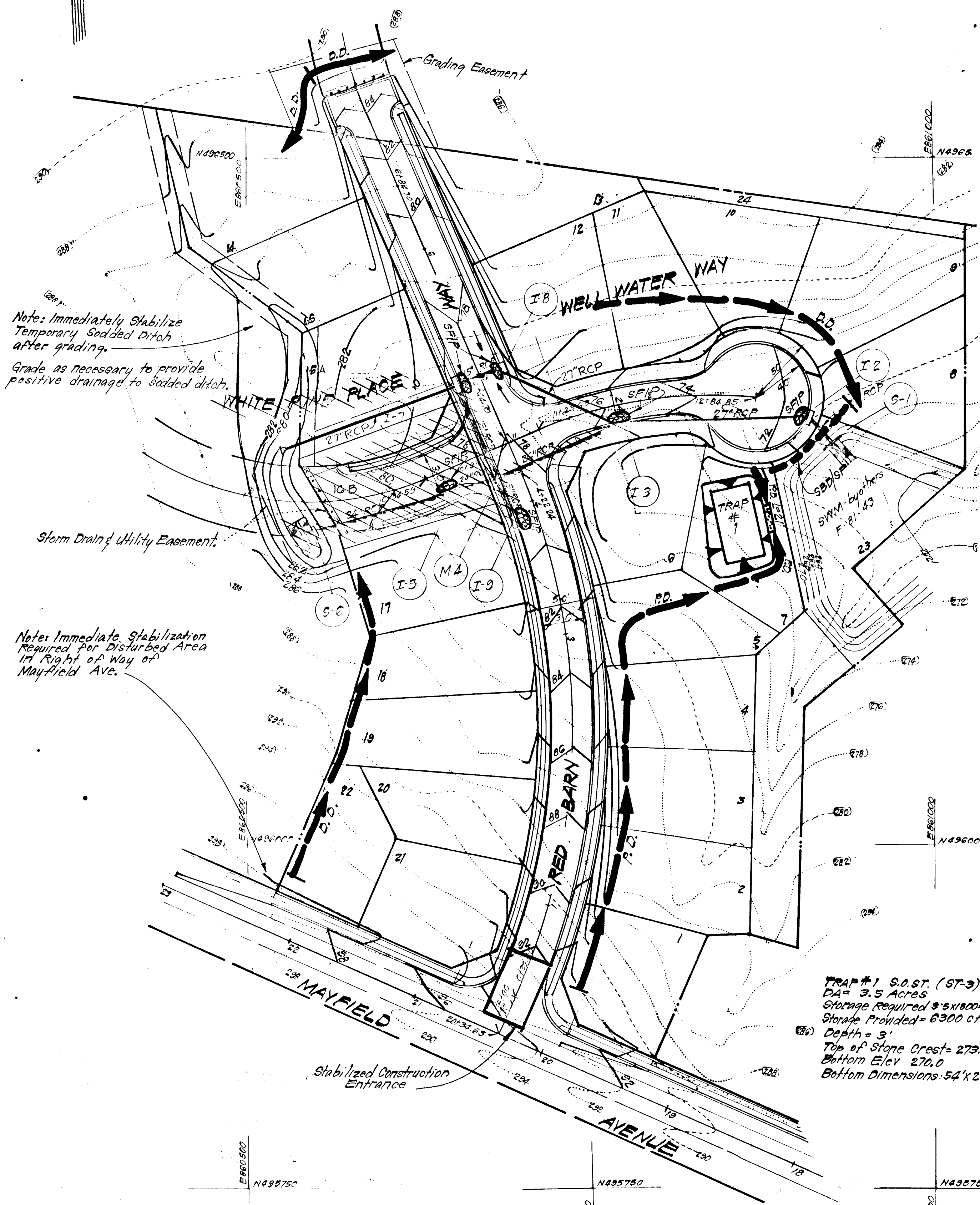
APPROVED: Department of Public Works
Signature: *John E. Rowe* Date: 8-19-81
Chief, Bureau of Engineering
Signature: *Howard County Office of Planning & Zoning* Date: 8-11-81
Signature: *John E. Rowe* Date: 8-11-81
Chief, Division of Land Development & Zoning Administration

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ENGINEERS • PLANNERS • SURVEYORS
11314 LOCKWOOD DRIVE • SILVER SPRING, MARYLAND 20904 • (301) 593-3400

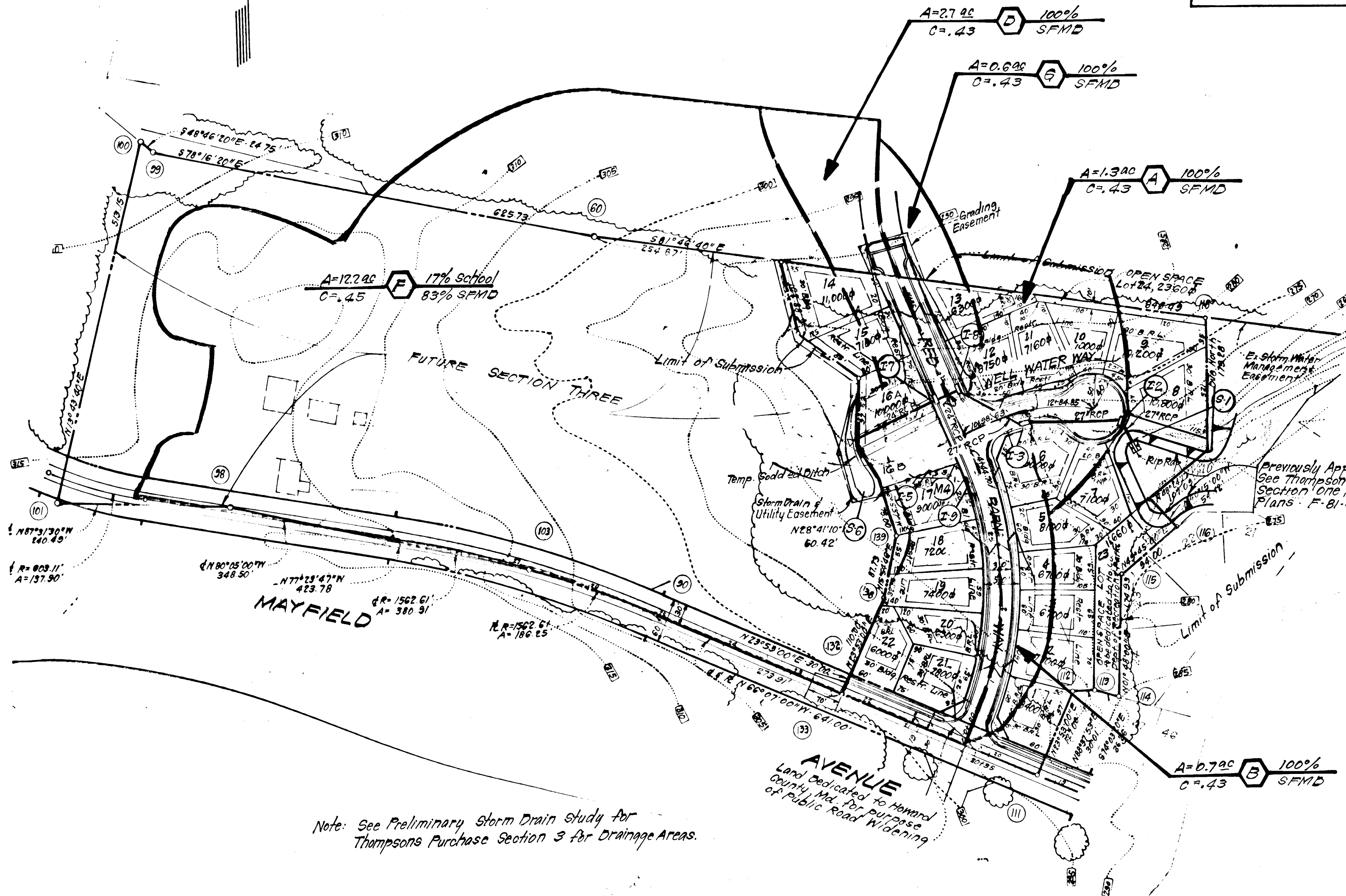
DESIGNED	ROAD CONSTRUCTION PLANS	SCALE
JLS	PROFILES AND DETAILS	As Shown
DRAWN	THOMPSONS PURCHASE	3 OF 5
CHECKED	SECTION TWO	JOB NO.
JLS	1ST ELECTION DISTRICT	81-018
DATE	FOR: RIDGELY ASSOCIATES	FILE NO.
5-18-81	P.O. Box 16203	81-018-D
	Baltimore, Md 2120	

LEGEND:

1. Existing Contour (2 ft Interval) - - - - -
2. Proposed Contour - - - - -
3. Perimeter Dike - - - - -
4. Diversion Dike - - - - -
5. Straw Bale Dike/Silt Fence - - - - -
6. Stone Filter Inlet Protection - - - - -



SEDIMENT & EROSION CONTROL PLAN
SCALE: 1"=50'



DRAINAGE AREA MAP PLAN
SCALE: 1"=100'

Reviewed for Howard S.C.D. Name
and meets Technical Requirements
James M. Helms 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 J. Thomas 8-10-81 Approved Date

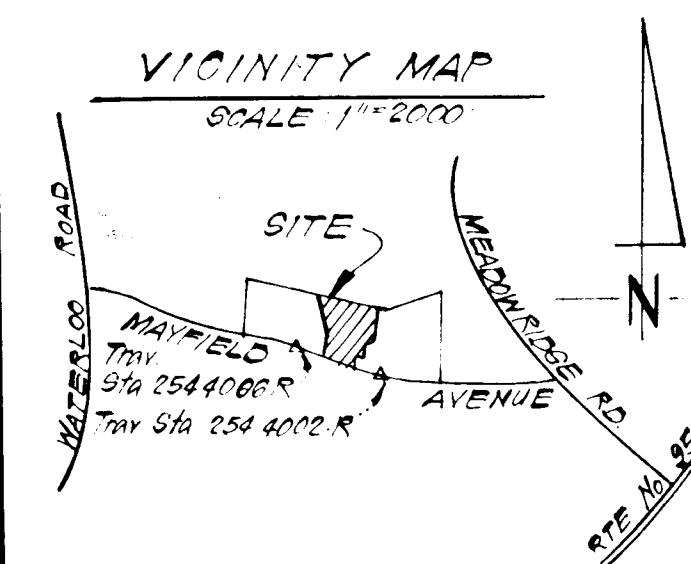
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William J. Thomas 8-1-81 Signature of Developer/Builder Date



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G. Nelson Clark 5-19-81 Date



5-27-85	Removed White Pine Place	Revised by T.S. & A.
No.	Date	Revision
APPROVED: Department of Public Works		
<u>William J. Thomas</u>	8-19-81	Date
APPROVED: Howard County, Chief of Planning and Zoning		
<u>William J. Thomas</u>	8-11-81	Date
APPROVED: Howard County, Chief of Land Development & Zoning Administration		

CLARK • FINEFROCK & SACKETT ENGINEERS • PLANNERS • SURVEYORS		
11314 LOCKWOOD DRIVE • SILVER SPRING, MARYLAND 20904 • (301) 593-3400		
DESIGNED	J.L.S.	SCALE: As Shown
DRAWN	K.I.W.	DRAWING: 4 OF 5
CHECKED	J.L.S.	JOB NO.: 81-018
DATE	5-18-81	FILE NO.: 81-018-D
FOR: RIDGELY ASSOCIATES P.O. Box 16203 Baltimore Md. 21210		

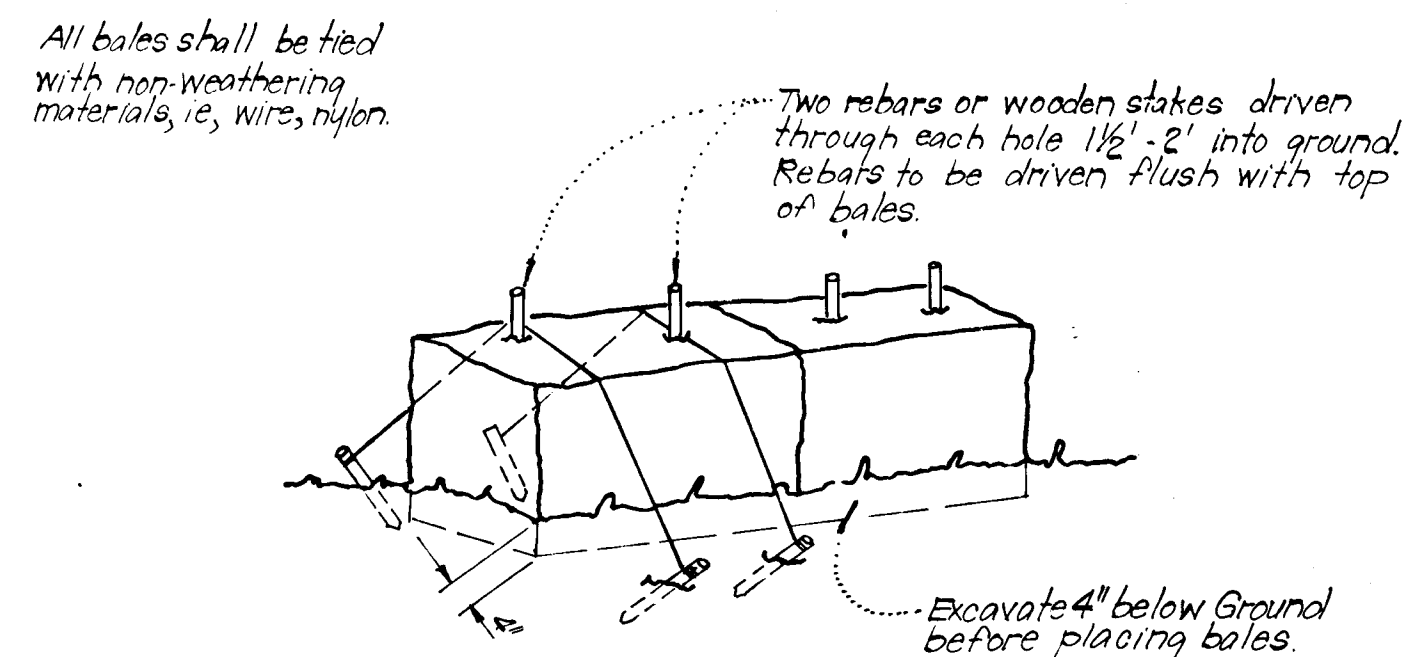
AS-BUILT 7-16-85 F-81-119

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 disturbed area to be stabilized in accordance with the following Specifications:
 - Seed- certified 85% germination applied at the rate of 3 lbs/1000 sq ft. 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 sq ft. Ground Agricultural Lime or Dolomitic Lime applied at a rate of 90 lbs/1000 sq ft.
 - Mulch - Weed free grain straw applied at a rate of 70-90 lbs/1000 sq ft. Mulch shall be secured to the ground by any approved method ie; asphalt tacks, chemical binder, etc.
 - All Seed 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.
- Stabilized Construction Entrances shall be placed at all construction entrances.
- All pipes to be blocked at the end of each day. See detail this sheet.
- Total Amount of Straw Bales or Silt Fence shown = 85 LF
- SITE ANALYSIS:

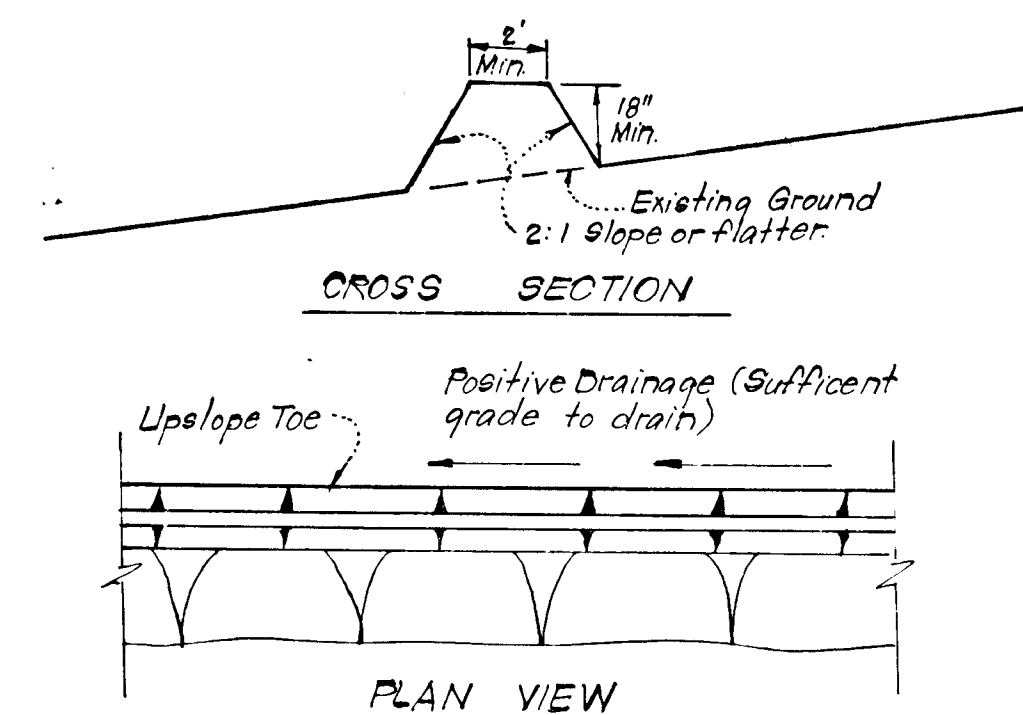
A. Total Area:	<u>4.655</u>	Acres
B. Area to be Roofed:	<u>0</u>	Acres
C. Area to be Paved:	<u>0.958</u>	Acres
D. Area to be Seeded:	<u>2.575</u>	Acres
E. Area Undisturbed:	<u>1.122</u>	Acres

- Construction Sequence:
 - Construct Stabilized Construction Entrance.
 - Construct Sediment & Erosion Control Measures and any necessary grading.
 - Construct Storm Drainage Between Strs. S-1 and S-6, install S.F.I.P.'s.
 - Construct Temporary Sealed Ditch and stabilize.
 - Rough Grade Roadways.
 - Construct Utilities.
 - Construct remainder of storm drainage and install S.F.I.P.'s.
 - Final Grade and Construct roadways.
 - Stabilize all other disturbed areas in accordance with plan.
 - Remove Sediment & Erosion Control Measures after all areas draining to them have been stabilized.

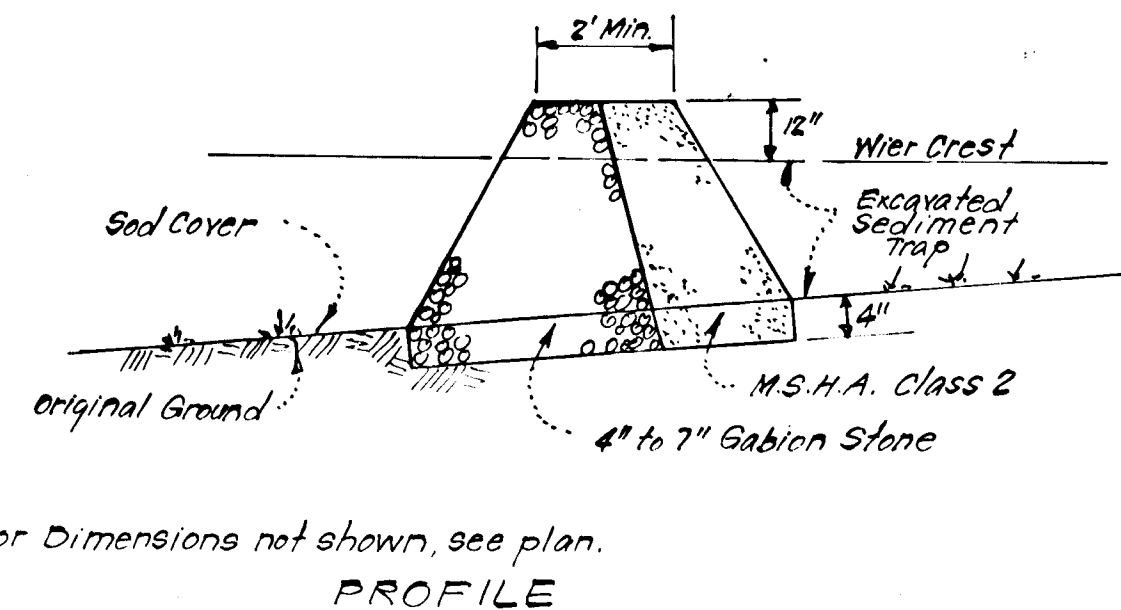


TYPICAL STRAW BALE DIKE DETAIL (S.B.D.)
No Scale

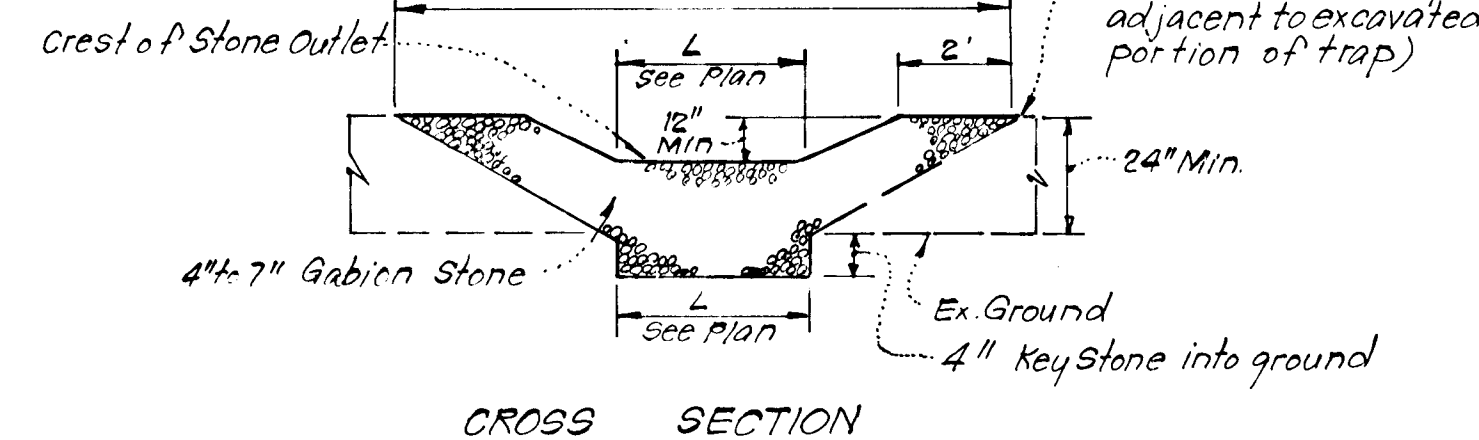
- Note:
1. In lieu of the use of rebar each straw bale may be fastened to ground with pegs (4 per bale and wire or nylon as shown above).



TYPICAL PERIMETER DIKE DETAIL (PD)
No Scale

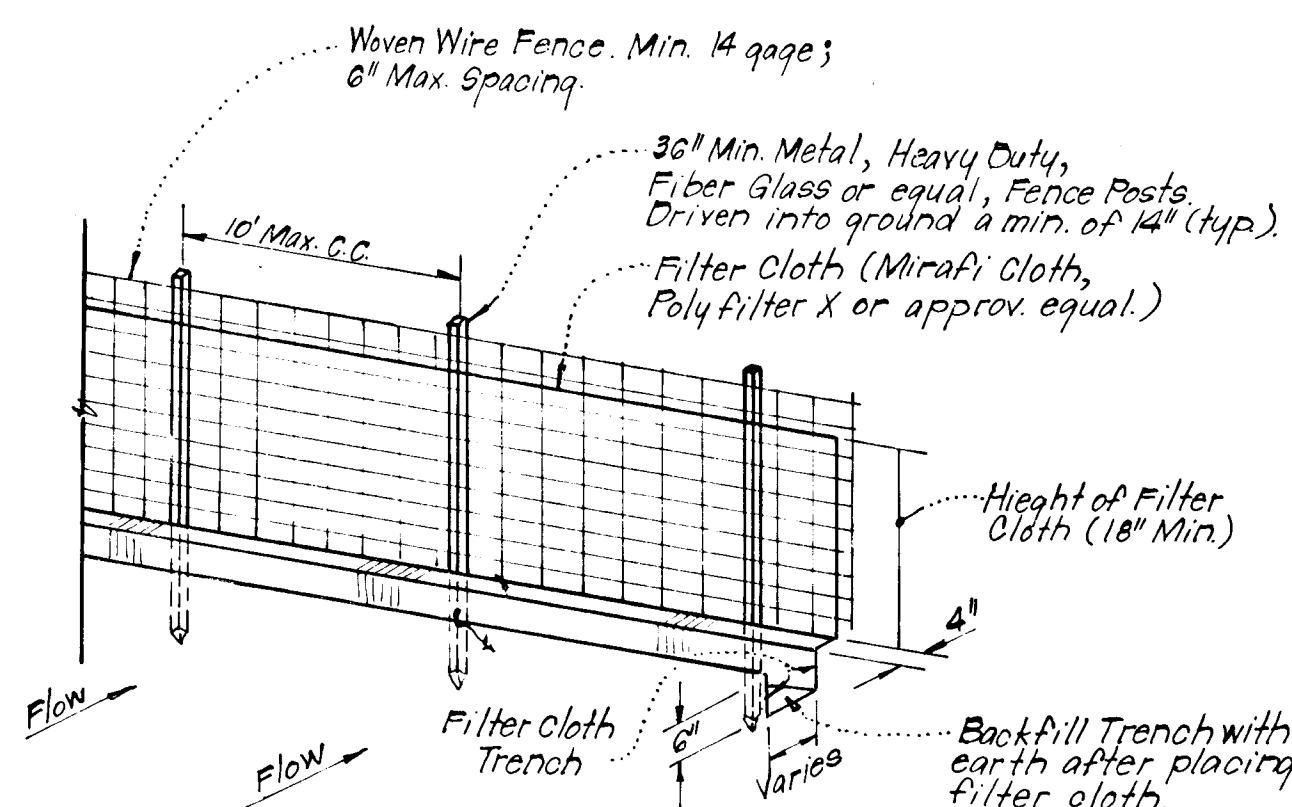


Note: For Dimensions not shown, see plan.



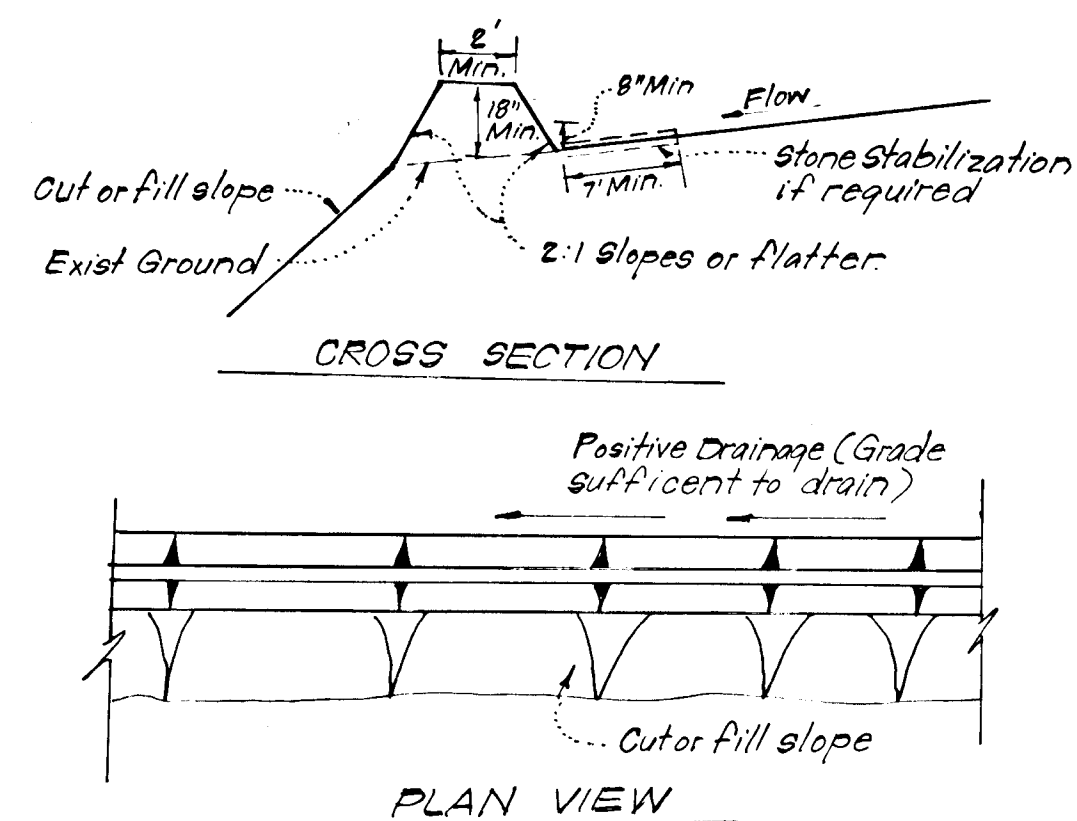
- Notes:
1. Sediment Trap to be cleaned out when sediment reaches a level of 1 ft below crest of stone outlet.
2. Bottom of Sediment Trap to be level and constructed to the dimensions shown on plan.
3. Stone Outlet to be constructed through diversion dike adjacent to excavated portion of sediment trap.

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

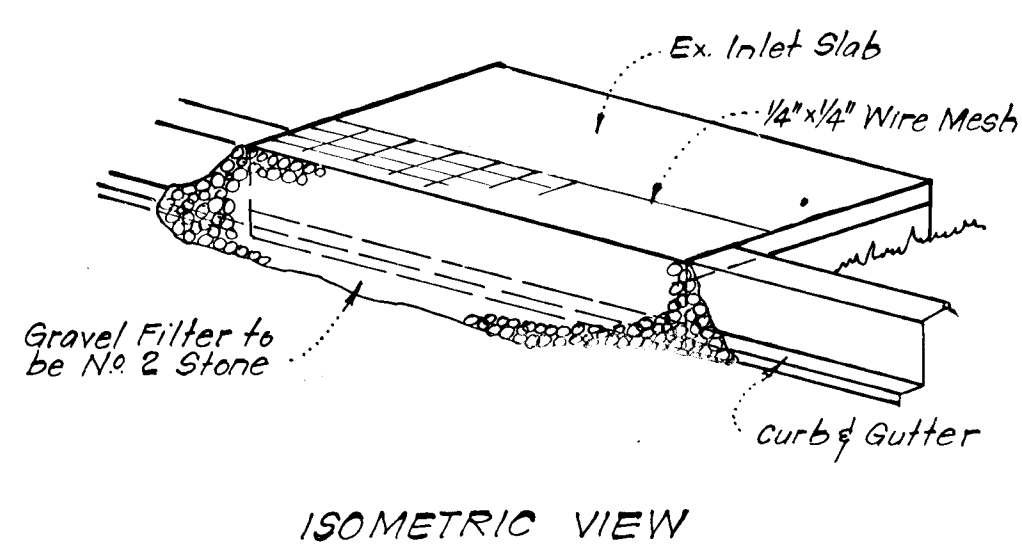


TYPICAL SILT FENCE DETAIL (S.F.)
No Scale

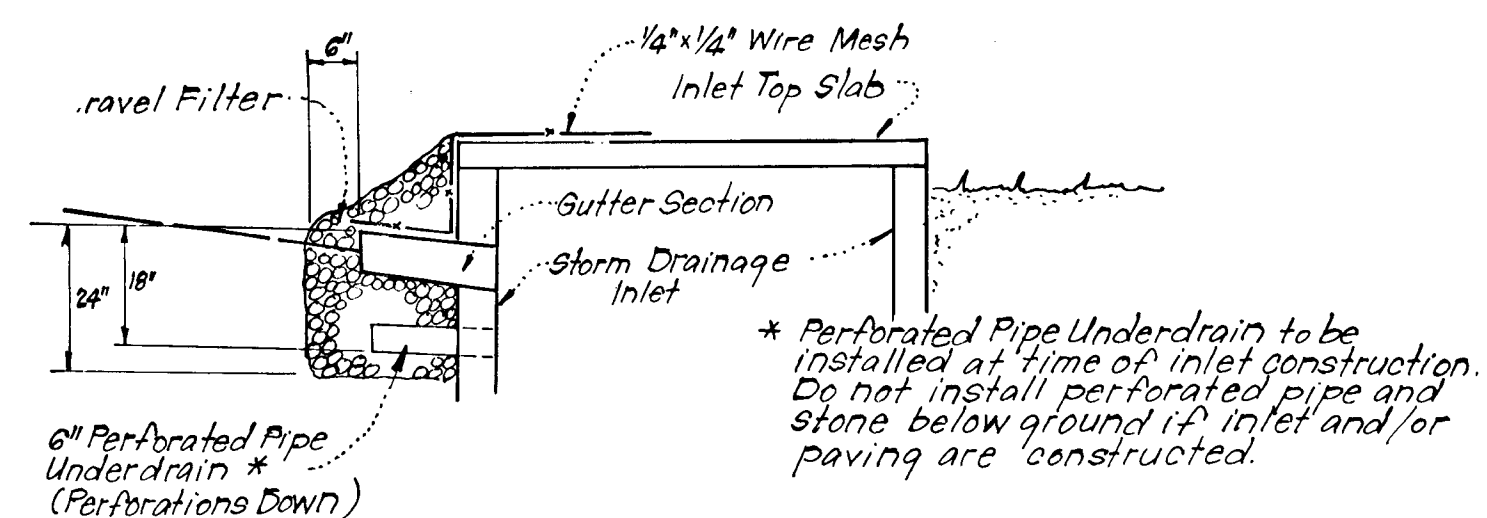
- Notes:
1. Woven Wire Fence to be fastened securely to fence posts by use of wire ties.
2. Filter Cloth to be fastened securely to Woven Wire, by use of wire ties spaced every 24" x 24"



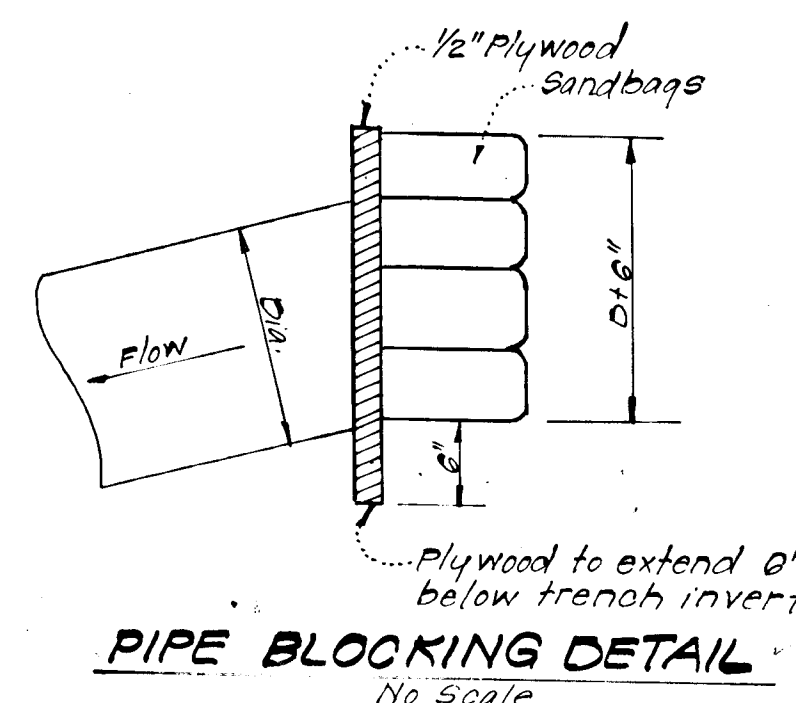
TYPICAL DIVERSION DIKE DETAIL (D.D.)
No Scale



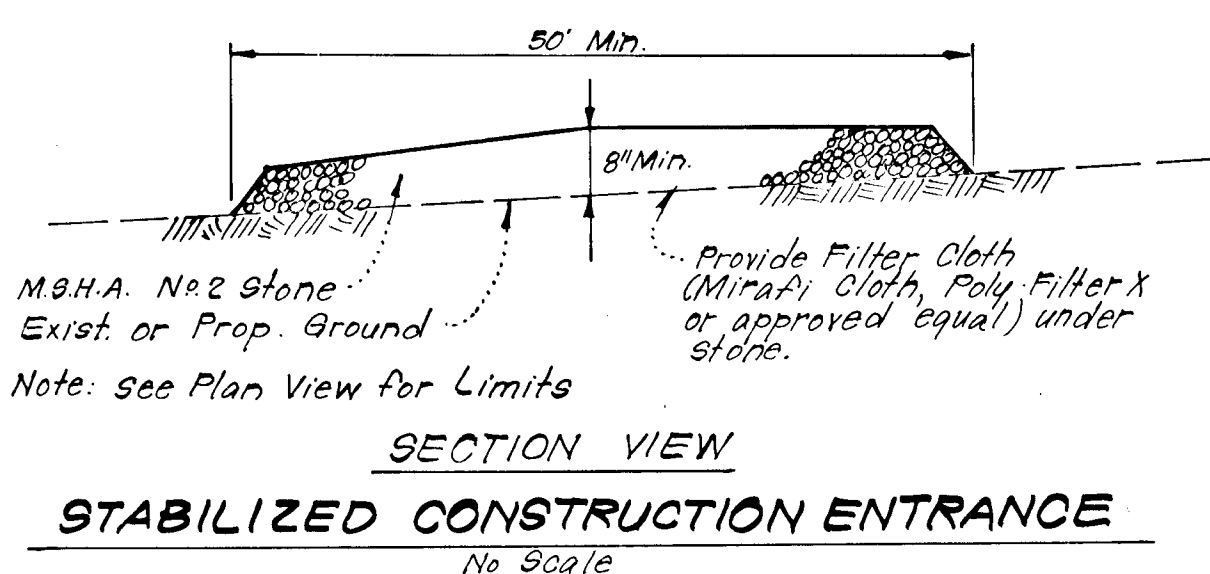
ISOMETRIC VIEW



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



PIPE BLOCKING DETAIL
No Scale



STABILIZED CONSTRUCTION ENTRANCE
No Scale

Reviewed for Howard Name S.C.D.
and meets Technical Requirements
Jana M. Adams Date 8/1/81
Signature U.S. Soil Conservation Service
THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

William Adams Approved 8-10-81 Date

DEVELOPER'S/BUILDER'S CERTIFICATE

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Melvin J. Williams Signature of Developer/Builder 6-1-81 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.

J. Nelson Clark Signature of Engineer 5-17-81 Date



APPROVED: Department of Public Works

J. Nelson Clark Chief, Bureau of Engineering 8-19-81 Date

APPROVED: J. Knipley (acting Chief) Chief, Division of Land Development & Zoning Administration 8-11-81 Date

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

DESIGNED J.L.S.	ROAD CONSTRUCTION PLANS SEDIMENT & EROSION CONTROL DETAILS THOMPSONS PURCHASE	SCALE As Shown
DRAWN K.I.W.		50% 5
CHECKED J.L.S.		JOB NO. 81-018
DATE 5-18-81		FILE NO. 81-018-D
		FOR: <u>RIDGELY ASSOCIATES</u> P.O. Box 16203 Baltimore, Md. 21210

1ST ELECTION DISTRICT
HOWARD COUNTY, MARYLAND