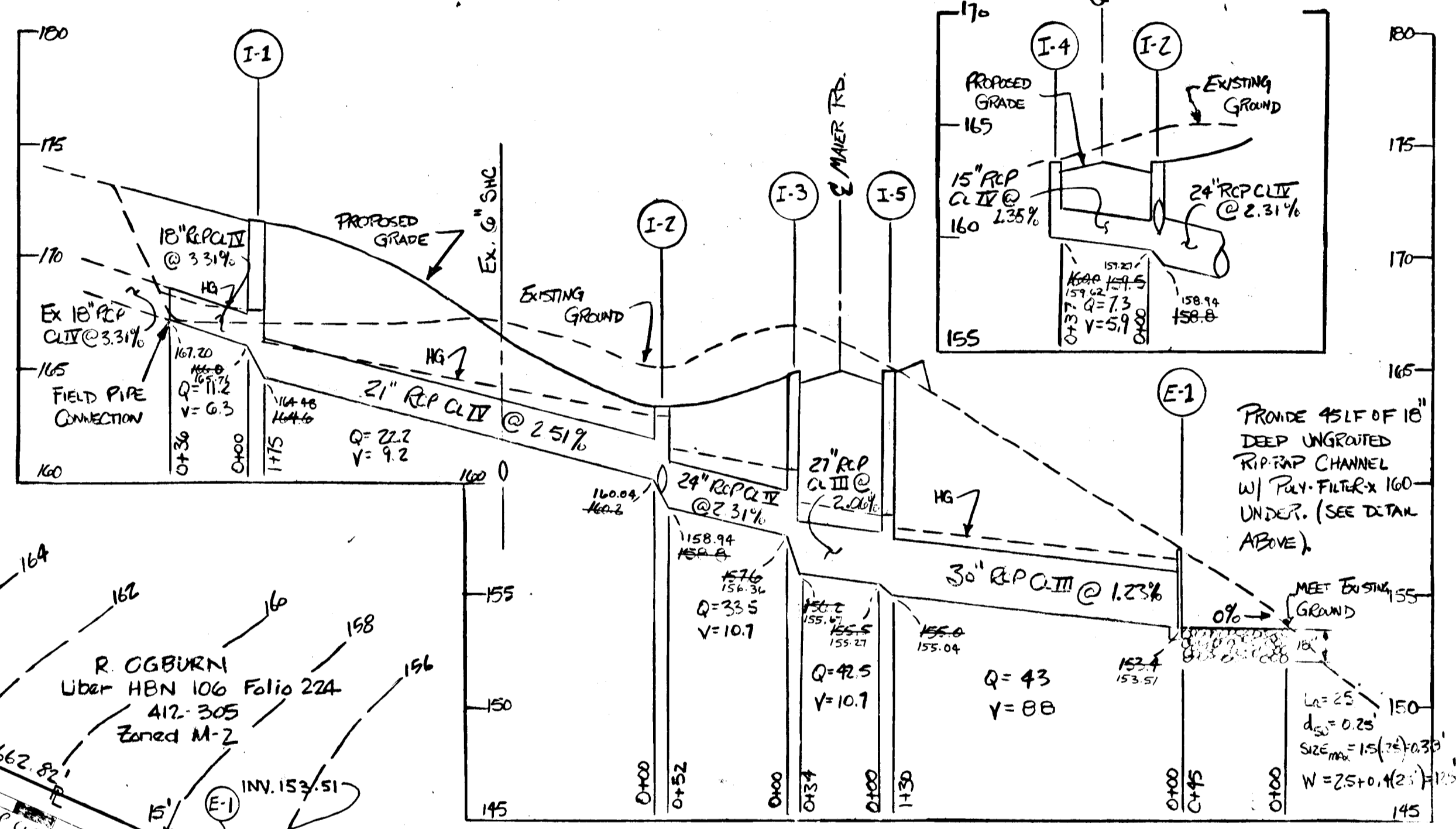


Paving Notes
A. All Construction shall be in accordance with Howard County Road Construction Code & Specifications.
B. The base will be primed in accordance with Section C-30-B.
C. A Tack Coat is required in accordance with Section C-31-A.

*NOTE: PROVIDE STRAW BALES BELOW E-1 TO TRAP SEDIMENT DURING CONSTRUCTION OF OUTFALL PIPE. ABOUT BALES AT CORNERS.

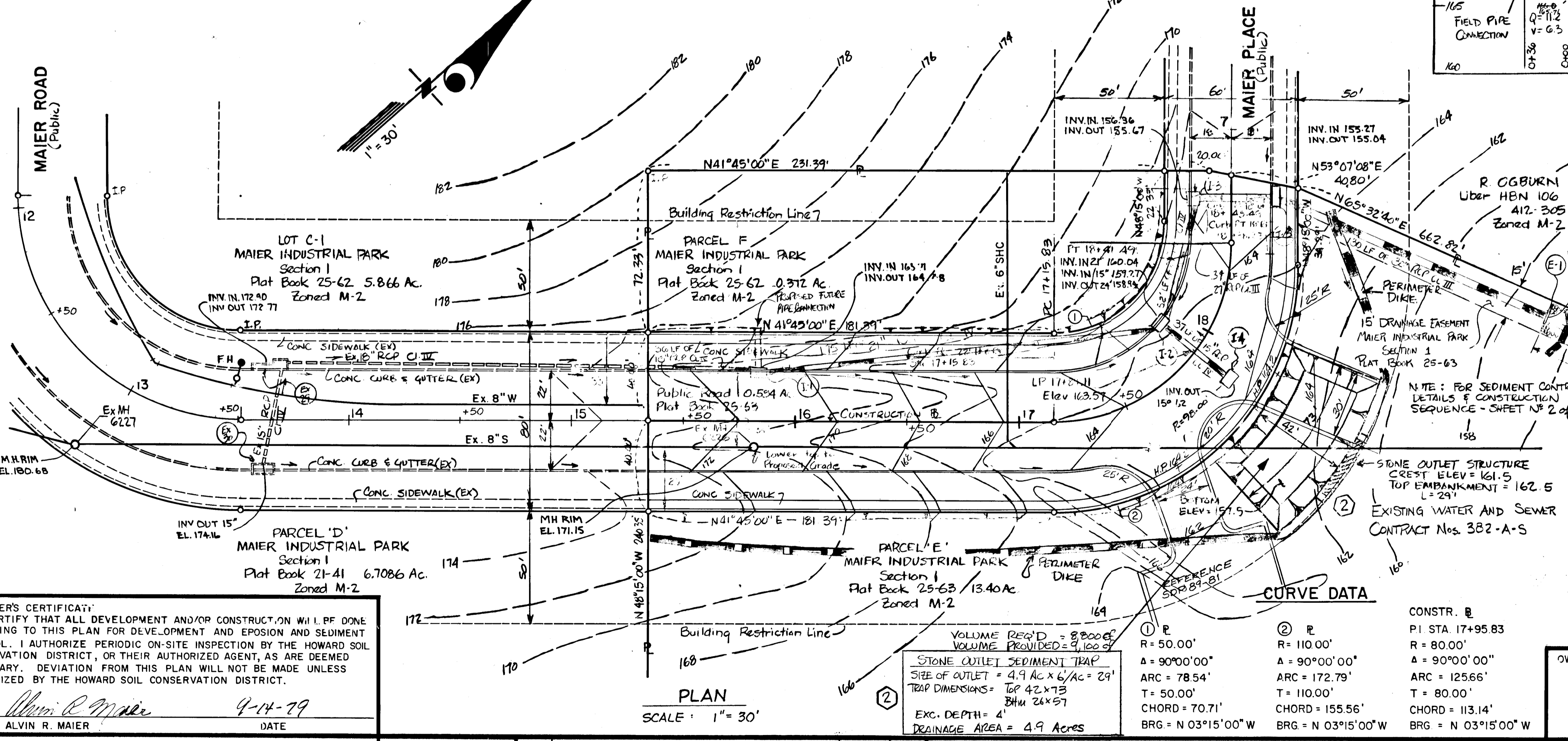
AS-BUILT SURVEY DATA BY FERDINAND C. PROVINI, P.E. NO. 4851. SIGNED, SEALED & DATED 8/14/81.



TYPE	PIPE SCHEDULE	LENGTH
15" RCP	CL IV	31'
18" RCP	CL IV	34'
21" RCP	CL IV	175'
24" RCP	CL IV	52'
27" RCP	CL IV	31'
30" RCP	CL III	130'

NOTE: FUTURE DEVELOPMENT OF INDUSTRIAL PROPERTY SHALL BE DRAINED IN CLOSED SYSTEM AND ROUTED TO I-1.

THE EXISTING UNDERGROUND UTILITIES SHOWN HEREON ARE BASED ON INFORMATION AVAILABLE FROM SURVEYS AND RECORDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION OF ALL UTILITIES BEFORE COMMENCING WORK AND FOR ANY DAMAGES WHICH MIGHT OCCUR BY HIS FAILURE TO LOCATE OR PRESERVE THESE UNDERGROUND UTILITIES. IF DURING CONSTRUCTION OPERATIONS, THE CONTRACTOR SHOULD ENCOUNTER UTILITIES OTHER THAN THOSE SHOWN ON THE PLANS, HE SHALL IMMEDIATELY NOTIFY THE ENGINEER AND TAKE ALL NECESSARY AND PROPER STEPS TO PROTECT THE FACILITY AND ASSURE THE CONTINUANCE OF SERVICE.



CURVE DATA

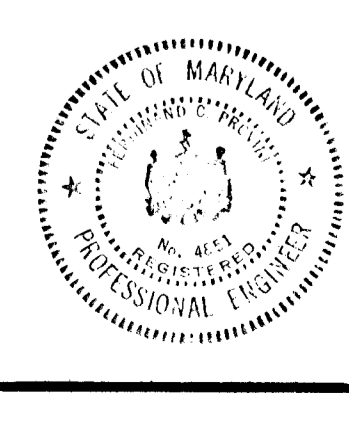
NO.	CONSTR. R	PI STA	R	A	ARC	T	CHORD	BRG
1	R	174+95.83	50.00'	90°00'00"	78.54'	50.00'	70.71'	N 03°15'00" W
2	R	174+95.83	110.00'	90°00'00"	172.79'	110.00'	155.56'	N 03°15'00" W
3	R	174+95.83	80.00'	90°00'00"	125.66'	80.00'	113.14'	N 03°15'00" W

DEVELOPER'S CERTIFICATE
I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN FOR DEVELOPMENT AND EROSION AND SEDIMENT CONTROL. I AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT, OR THEIR AUTHORIZED AGENT, AS ARE DEEMED NECESSARY. DEVIATION FROM THIS PLAN WILL NOT BE MADE UNLESS AUTHORIZED BY THE HOWARD SOIL CONSERVATION DISTRICT.

Alvin R. Maier 9-14-79
ALVIN R. MAIER DATE

ENGINEER'S CERTIFICATE
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. IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

Ferdinand C. Provini 9/7/79
FERDINAND C. PROVINI, P.E. DATE



No.	REVISION	DATE	BY
1	REVISE PER COUNTY REVIEW COMMENTS	12-2-79	Alvin
2	REVISE PER SCS REVIEW COMMENTS	1-23-80	Alvin
3	REVISE PER COUNTY REVIEW COMMENTS	4-21-80	Alvin
4	ADDED DRIVE ENTRANCE FOR PARCEL E-G	12-19-81	Alvin



GREENHORNE & O'MARA, INC.
ENGINEERS • ARCHITECTS • PLANNERS • SURVEYORS
622 HUNGERFORD DRIVE, SUITE 20, ROCKVILLE, MD. 20850
(301) 762 - 5340
RIVERDALE, MD. • ANNAPOLIS, MD. • FAIRFAX, VA. • NO. HUNTINGDON, PA.

OWNER AND DEVELOPER:
ERNES, MAIER, INC.
47C0 ANNAPOLIS ROAD
BLADENBURG, MARYLAND 20710

ROAD CONSTRUCTION PLAN
MAIER INDUSTRIAL PARK
SECTION I PARCELS E & F
PLAT BOOK 25-62 & 25-63 RECORDED 6-29-73
SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
TAX MAP 47 PARCEL 873

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

William E. R. King 4-11-80
Chief Bureau of Engineering Date

Robert M. Spina 4-9-80
Chief Division of Land Development Date

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

William J. P. ... 9-8-80
DISTRICT COORDINATOR DATE

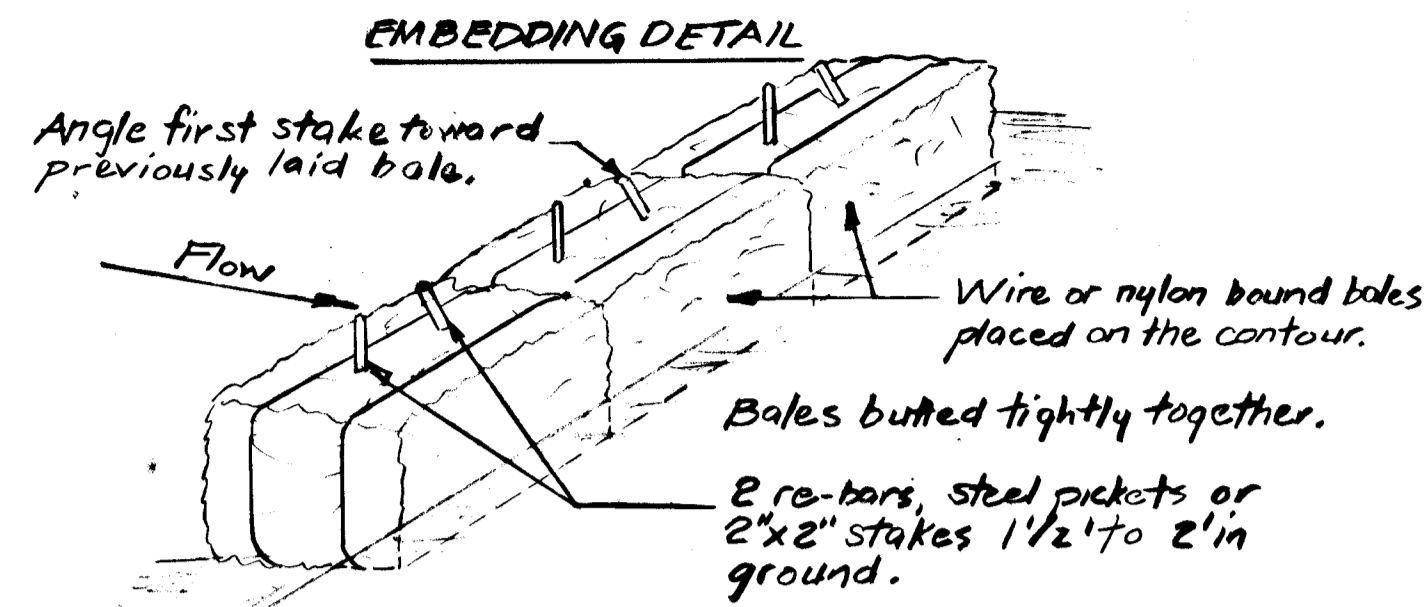
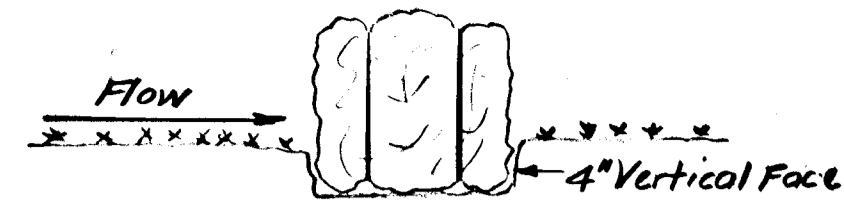
REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

Dave J. ... 4-8-80
U.S. SOIL CONSERVATION DISTRICT SERVICE DATE

DESIGN	SCALE	AS SHOWN
DESIGN	SCALE	AS SHOWN
DRAWN		
CHECKED	SHEET	1 OF 2
DATE	JOB NO.	FILE NO.

SEDIMENT CONTROL NOTES

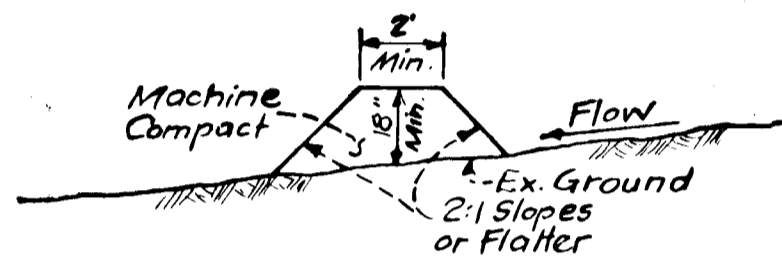
- Specifications for the Sediment Control Details shown hereon are included in the U.S.D.A. Soil Conservation Service "Standards and Specifications for soil erosion and sediment control in developing areas."
- Grading permit must be obtained prior to any grading, grubbing, or earth disturbance.
- The developer shall notify the Howard County Office of Inspections and Permits at least 24 hours prior to beginning any construction shown hereon (465-5000 Ext. 365).
- Sediment control structures to be constructed prior to any on-site grading or disturbance to any existing surface material, and are to be stabilized as soon as constructed.
- All sediment control structures to remain in place until permission for their removal has been obtained from the Howard County Office of Inspection and Permits (465-5000 Ext.365).
- All graded areas not to be sodded shall be stabilized by seeding and mulching in accordance with the following:
 - Site Preparation
 - Harrow or disc in areas proposed to be seeding the following materials at the specified rate to a depth of 3":
 - (1) Pulverized limestone at 2 tons per acre.
 - (2) Commercial fertilizer 10-10-10 at 4 tons per acre.
 - (3) Super phosphate at 600 lbs. per acre.
 - Seeding
 - (1) Sow the following seed mixture at the rate of 200 lbs. per acre with a mechanical spreader.
 - A.) Temporary: Italian or Perennial Rye Grass
 - B.) Permanent: 40% Marion Blue Grass, 40% South Dakota Blue Grass, 20% Penn Lawn Creeping Red Fescue.
 - (2) The seeded area shall then be raked with a York Rake (a minimum of 2 passes) covered and compacted with Multipacker or other approved method.
 - Mulching
 - (1) Seeded areas shall be uniformly mulched immediately after seeding with unweathered small grain straw at the rate of 1 1/2 - 2 tons per acre.
 - (2) Tie mulch down with liquid asphalt at 0.1 gal./s.y. or emulsified asphalt at 0.04 gal./s.y. or mulch netting.
- All spoils must be removed to a site with an approved grading permit.



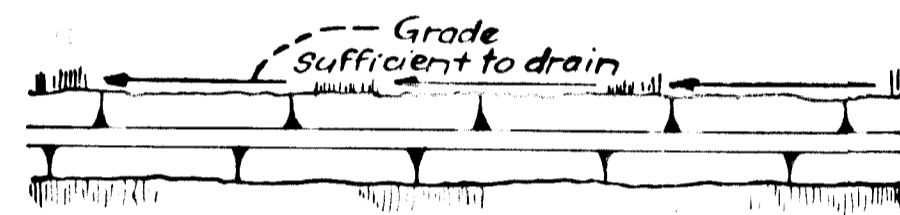
ANCHORING DETAIL

STRAW BALE DIKE

No Scale



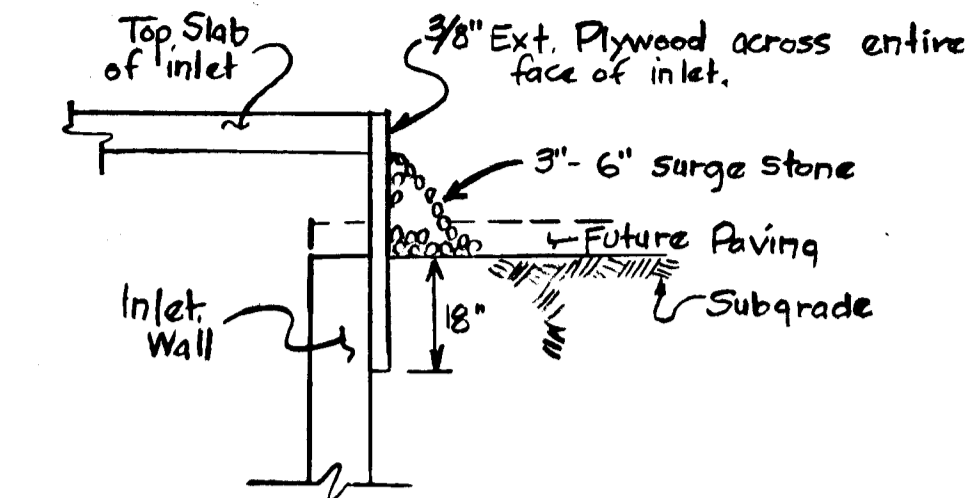
CROSS SECTION



PLAN VIEW

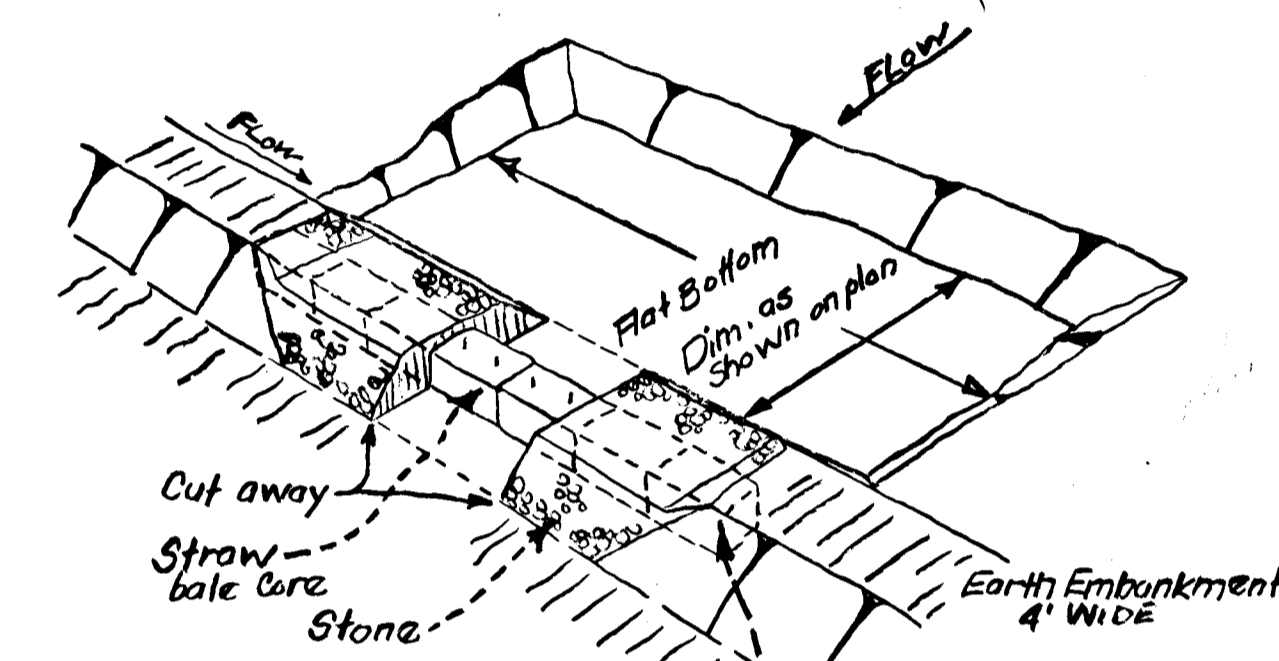
PERIMETER DIKE

No Scale

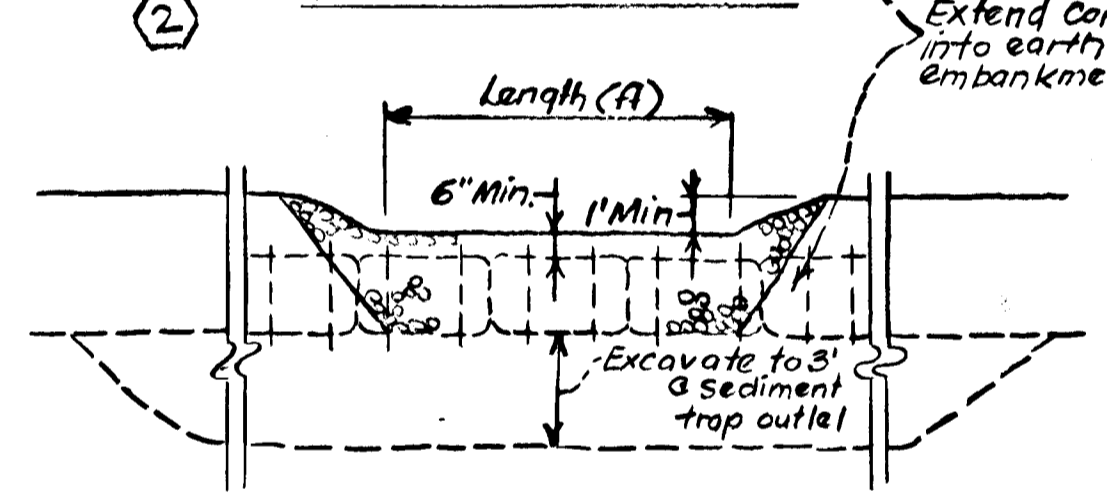


Inlet Blocking Detail

No Scale



PERSPECTIVE VIEW



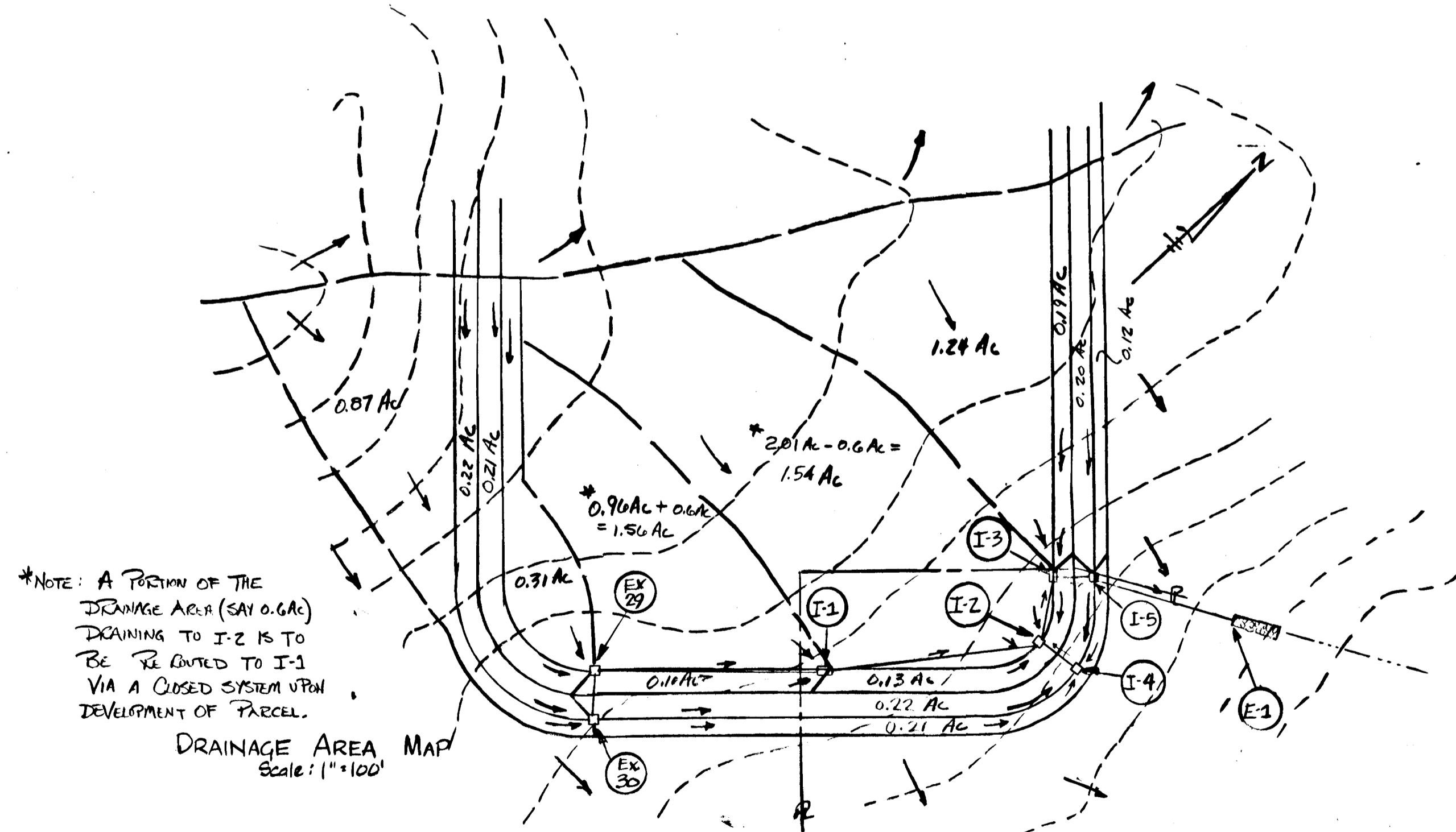
ELEVATION

STONE OUTLET SEDIMENT TRAP

No Scale

Sequence of Construction

- Construct Perimeter Dike, Sediment Trap, Stone Outlet Structure & Straw Bale Dike Below E-1.
 - Grade Roadway
 - Construct Storm Drain System
 - Block Inlets as detailed right.
 - Install Curb and Gutter
 - Final Grade & Pave Roadway
 - Construct Sidewalk
 - Stabilize Slopes
 - Remove Sediment Control Devices
- Note: All sediment control devices disturbed or damaged during construction shall be repaired at the end of each day to insure their proper operation.



*NOTE: A PORTION OF THE DRAINAGE AREA (SAV 0.6 AC) DRAINING TO I-2 IS TO BE RE-ROUTED TO I-1 VIA A CLOSED SYSTEM UPON DEVELOPMENT OF PARCEL.

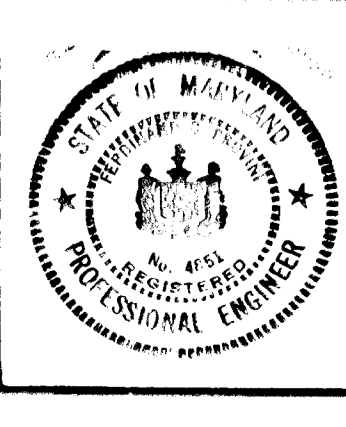
DRAINAGE AREA MAP Scale: 1"=100'

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Alvin R. Maier 9-14-79
ALVIN R. MAIER DATE

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Ferdinand C. Provini 12-4-79
FERDINAND C. PROVINI, P.E. DATE



No.	REVISION	DATE	BY
1	REVISE PER COUNTY REVIEW COMMENTS	12-2-79	Maier
1	REVISE PER SCS REVIEW COMMENTS	1-23-80	Provini



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HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

William S. Brown 4-11-80
Chief Bureau of Engineering Date

John J. ... 4-1-80
Chief Division of Land Development Date

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William S. Brown 4-8-80
DISTRICT COORDINATOR DATE

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

John J. ... 4-8-80
U.S. SOIL CONSERVATION SERVICE DATE

designer	SCALE	AS SHOWN
designer	SCALE	AS SHOWN
drawn	SCALE	AS SHOWN
CHECKED	SHEET	2 OF 2
DATE	NO.	FILE No.
9-14-79	526068	