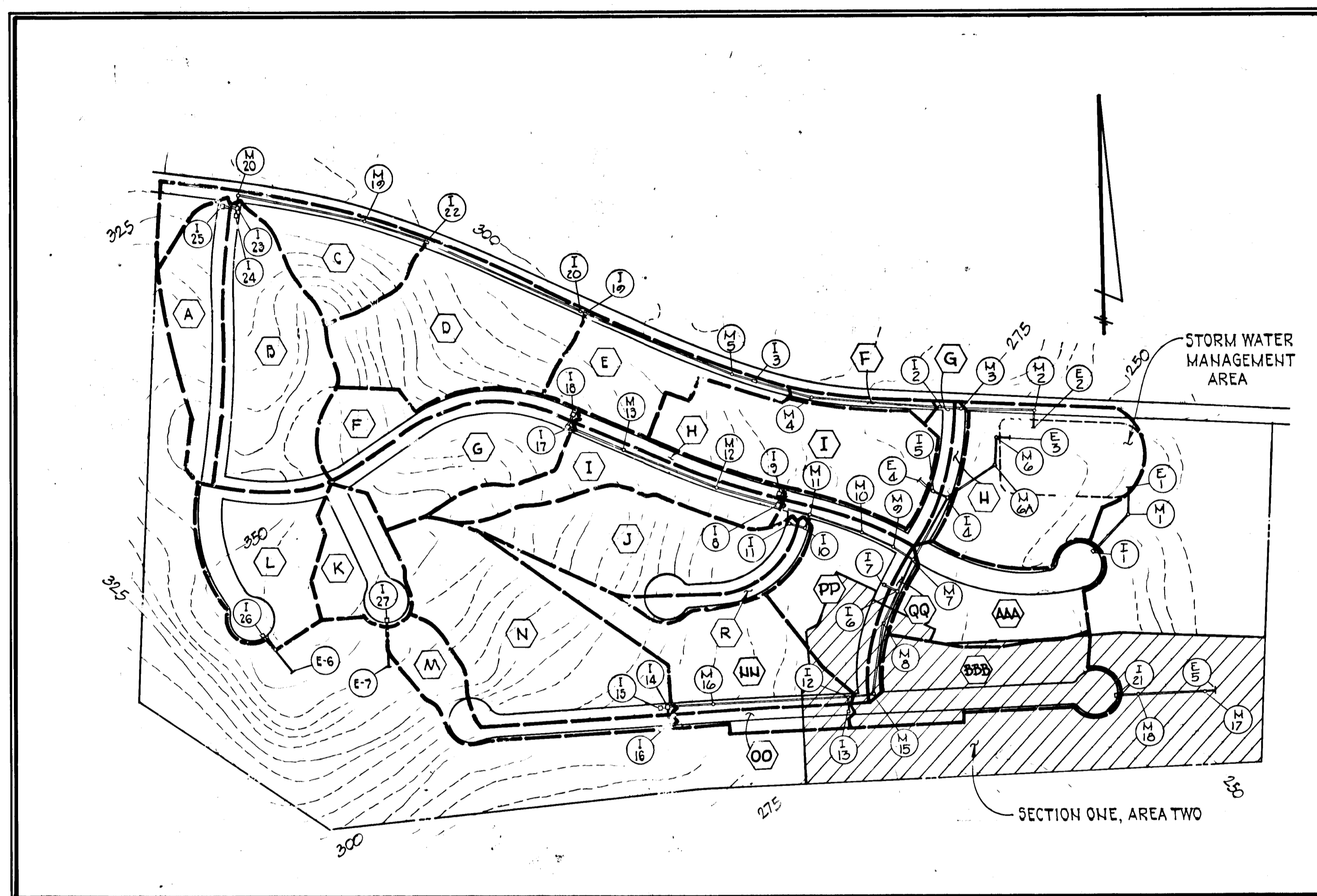


- GENERAL NOTES**
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE HOWARD COUNTY STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION.
 - THE APPROXIMATE LOCATIONS OF EXISTING UTILITIES ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING UTILITIES AND TO MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO THE CONTRACTOR'S OPERATION SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
 - THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE (5) DAYS BEFORE STARTING WORK ON THESE DRAWINGS:
 - BALTIMORE GAS AND ELECTRIC COMPANY-UNDERGROUND ELECTRIC DISTRIBUTION ENGINEERING- 234-5591
 - BALTIMORE GAS AND ELECTRIC COMPANY-UNDERGROUND GAS DISTRIBUTION ENGINEERING- 234-5533
 - MISS UTILITIES- 559-0100
 - CHESAPEAKE AND POTOMAC TELEPHONE COMPANY- 559-0100
 - THE CONTRACTOR SHALL LOCATE BY TEST PIT EXISTING UTILITIES IN ADVANCE OF CONSTRUCTION OPERATIONS IN THE VICINITY OF PROPOSED UTILITIES.
 - ALL TRAFFIC CONTROL SIGNS AND THEIR USE MUST CONFORM WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
 - BENCH MARKS SHOWN HEREON ARE BASED ON HOWARD COUNTY DATUM.
 - STORM WATER MANAGEMENT FOR SECTION ONE, AREA TWO SHALL BE PROVIDED FOR IN SECTION ONE, AREA ONE.



DRAINAGE AREA MAP

SCALE: 1" = 200'

DRAINAGE AREA RUNOFF COEFFICIENTS

DRAINAGE AREA		"C" VALUE
A	1.45	0.45
B	2.95	0.40
C	2.0	0.32
D	3.25	0.31
E	1.55	0.36
F	0.95	0.50
G	1.20	0.35
H	0.30	0.64
I	1.45	0.35
J	2.55	0.31
K	1.06	0.53
L	1.84	0.49
M	0.95	0.42
N	3.90	0.29
P	0.25	0.65
R	0.35	0.83
NN	2.25	0.38
PP	1.8	0.57
QQ	0.2	0.66
AAA	1.9	0.49
BBB	2.1	0.49

BENCH MARK

HOWARD COUNTY MONUMENT #2444003
R.R. SPIKE IN NORTH EDGE PAVING
MAYFIELD AVENUE EAST OF DEEP BUN BRIDGE
ELEV. 243.46

HO. CO. MON. 2444002 - R; N 4956.94, 878, E 861062.772, ELEV. 283.474
HO. CO. MON. 2544006 - R; N 4961100.385, E 860184.824, ELEV. 303.923

PURDUM & JESCHKE
CONSULTING ENGINEERS
LAND SURVEYORS

1023 North Calvert Street
Baltimore, Maryland 21202 301/837-0194

OWNER AND DEVELOPER:

SECURITY DEVELOPMENT CORP
8450 BALTIMORE NATIONAL PIKE
ELLICOTT CITY, MD. 21043

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

PLANNING DIRECTOR DATE
CHIEF, DIV. OF LAND DEV. AND ZONING ADMIN. DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

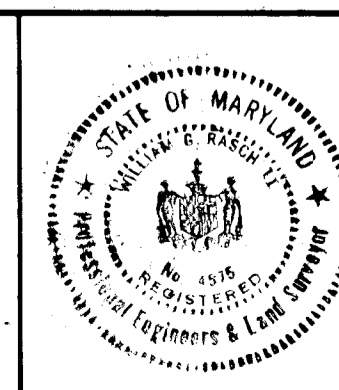
CHIEF, BUREAU OF ENGINEERING DATE

DEVELOPER
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 Authorized Periodic On-Site Inspection By The Howard Soil Conservation District Or Their Authorized Agents As Deemed Necessary.

SIGNATURE OF DEVELOPER DATE

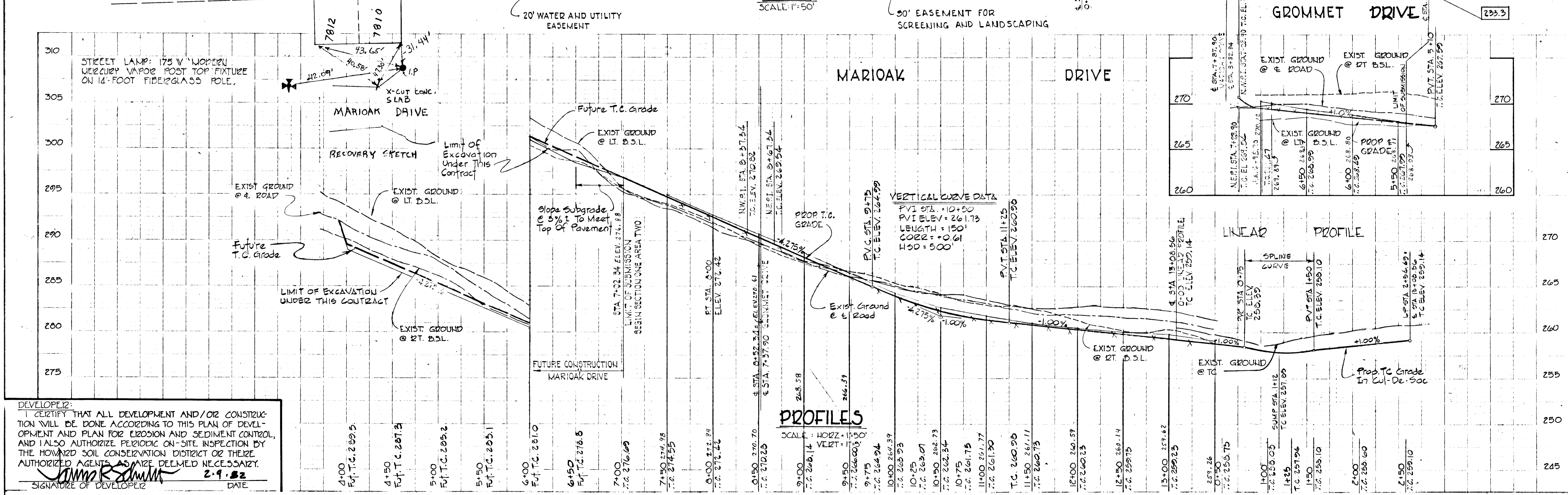
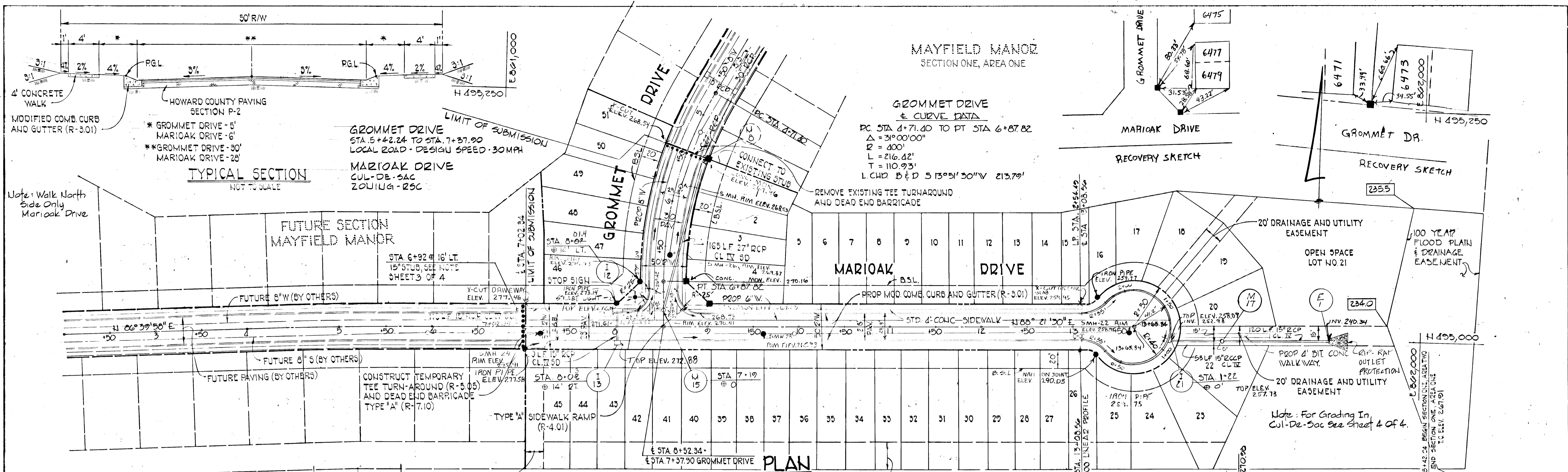
PROFESSIONAL ENGINEER:
I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKING PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

SIGNATURE OF ENGINEER DATE



DRAINAGE AREA MAP
MAYFIELD MANOR
SECTION ONE, AREA TWO
1ST ELECTION DIST - HOWARD COUNTY, MD.
TAX MAP 37 PARCEL 162
SCALE: 1" = 200' JANUARY 24, 1981

SHEET 1 OF 4



DEVELOPER:
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 MAY BE DEEMED NECESSARY.

Signature
SIGNATURE OF DEVELOPER

2-9-82
DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING.

PLANNING DIRECTOR DATE
Signature 2-16-82
CHIEF DIV. OF LAND DEV. DATE
ZONING ADMINISTRATION

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.

Signature 2-9-82
CHIEF, BUREAU OF ENGINEERING DATE

HOWARD SOIL CONSERVATION DISTRICT:
REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

Signature 2-16-82
U.S. SOIL CONSERVATION SERVICE DATE

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

Signature 2-16-82
HOWARD SOIL CONSERVATION DIST. DATE

PROFESSIONAL ENGINEER:
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 AND WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD CONSERVATION DISTRICT.

Signature 2/16/82
WILLIAM G. RASCH II DATE

ROAD & STORM DRAIN PLAN & ROAD PROFILE

MARIOAK DRIVE AND GROMMET DRIVE
MAYFIELD MANOR SECTION ONE, AREA TWO

FIRST ELECTION DISTRICT HOWARD CO., MD
TAX MAP 57 SCALE: AS NOTED
PARCEL 162

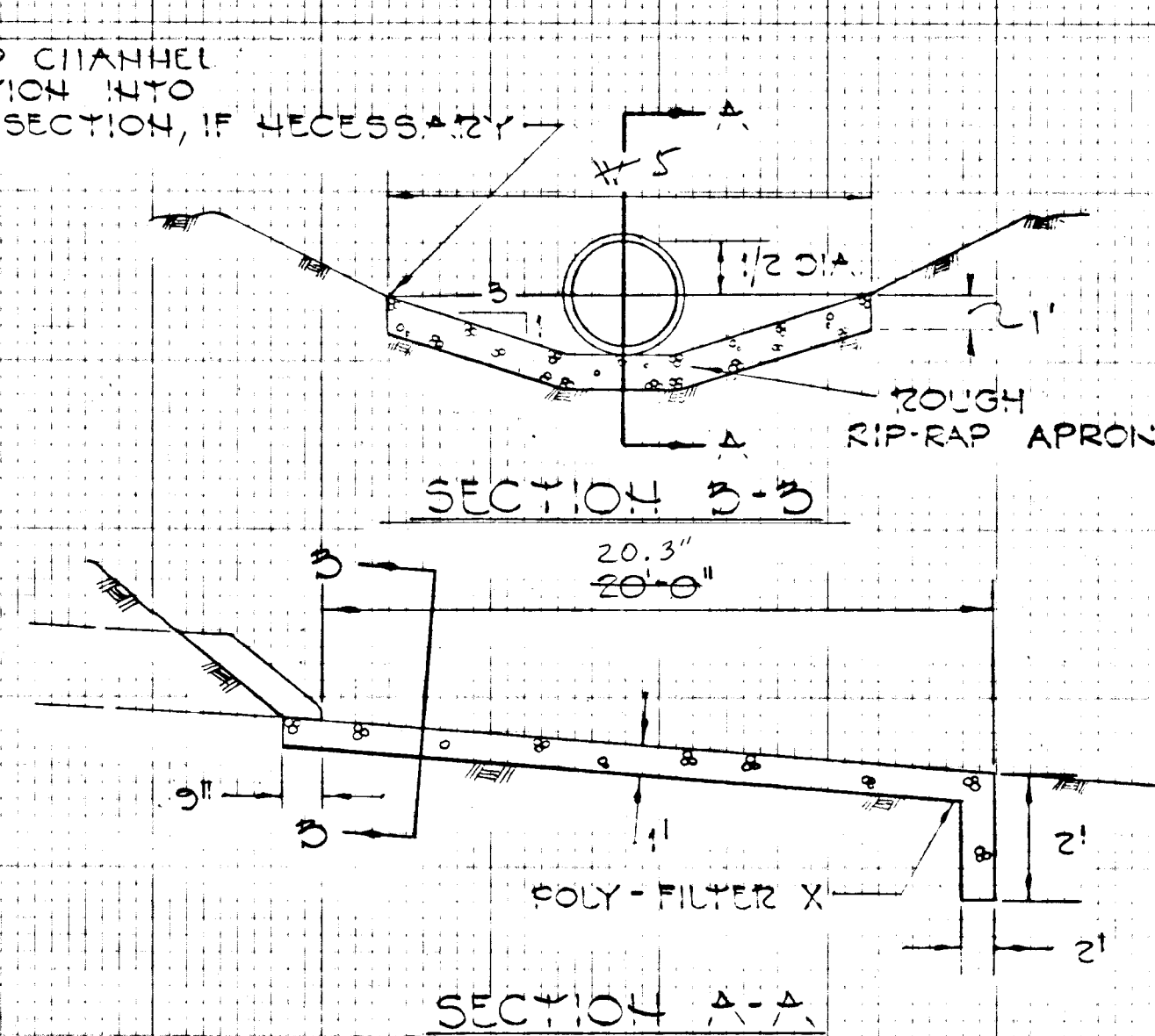
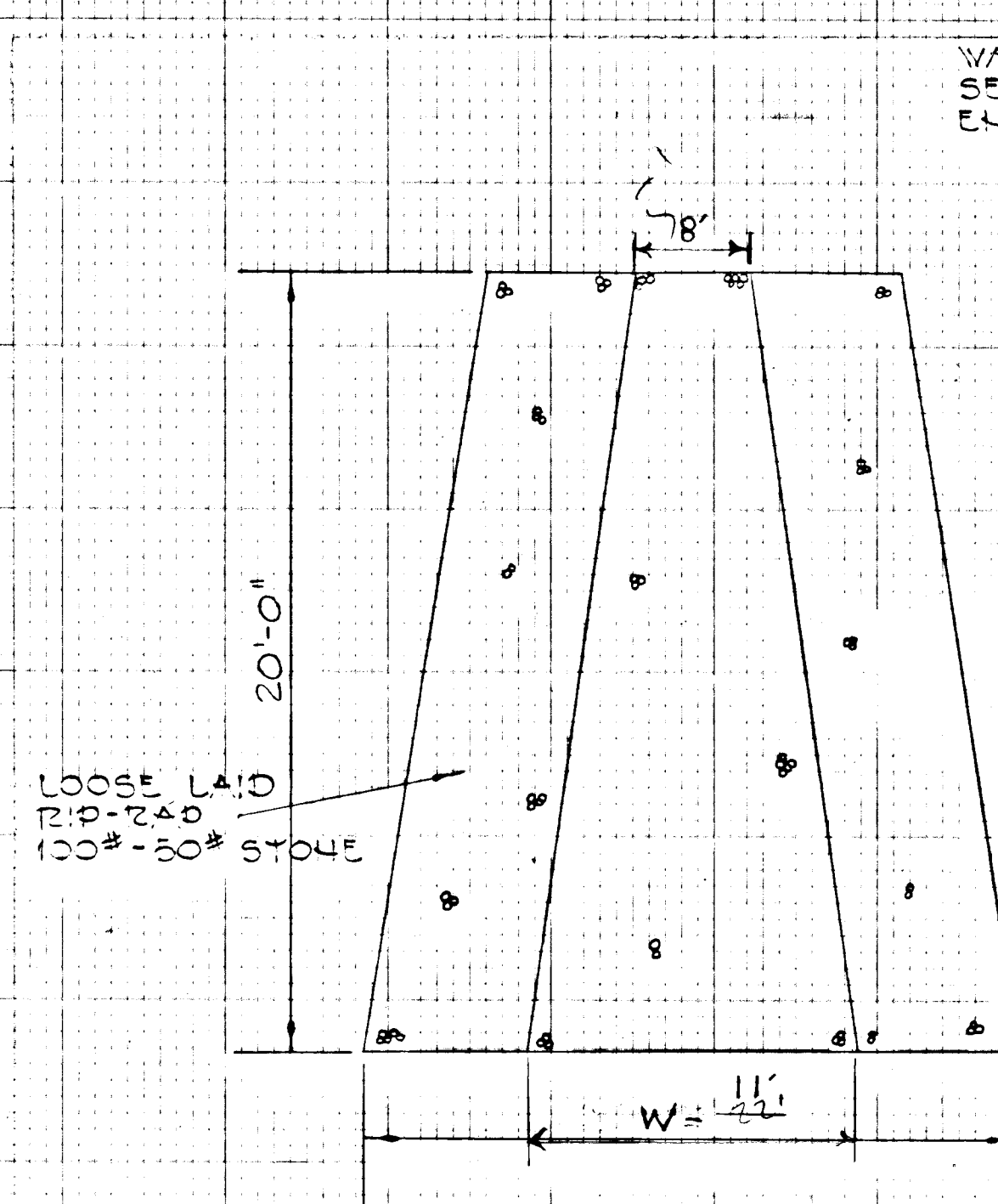
DESIGNED: A.E.L.
DRAWN: S.B.B.
CHECKED: B.E.

SHEET 2 OF 4

REV. PER CO. COMMENTS
DATE:

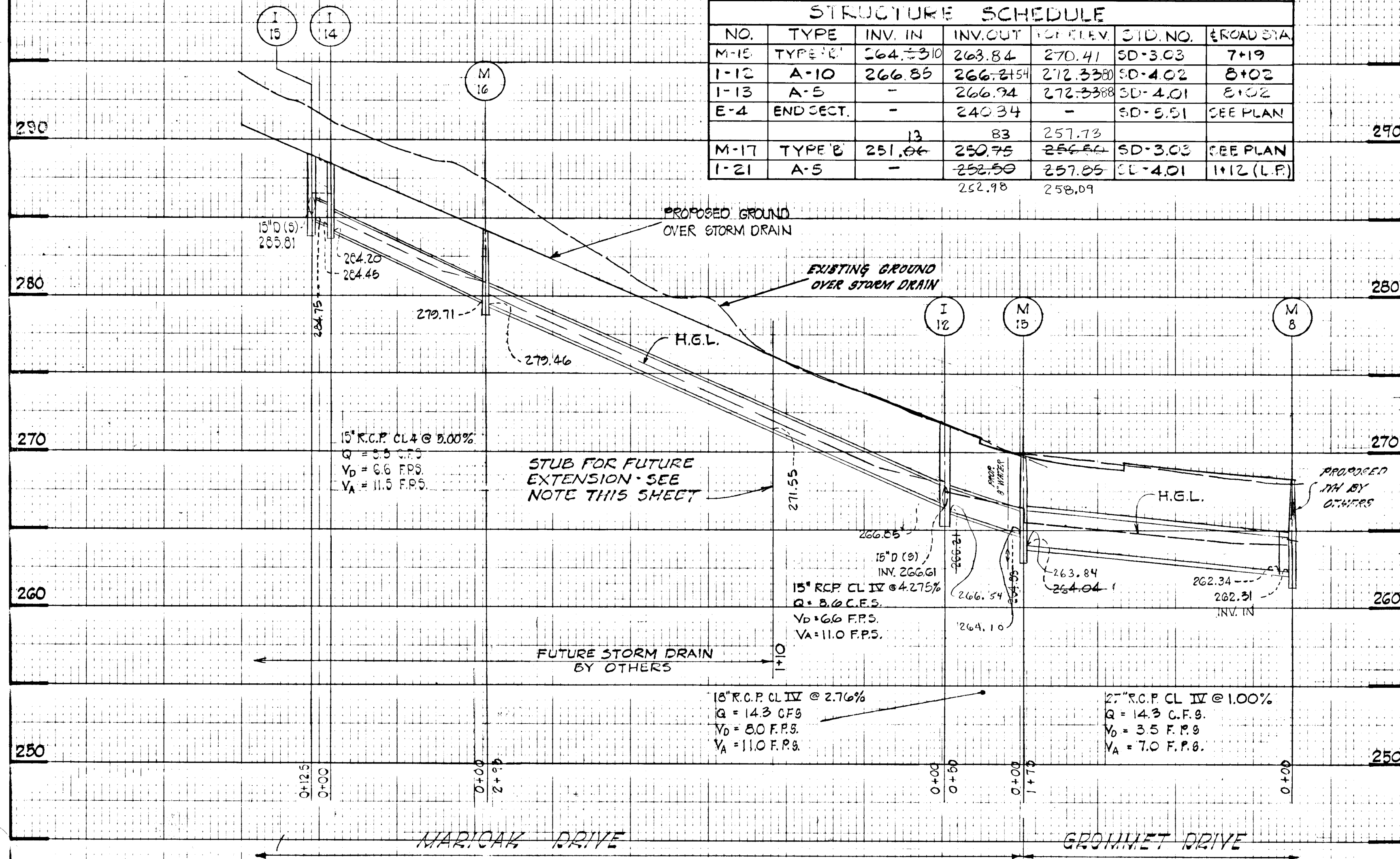
AS-BUILT - 1-14-88

F-80-167

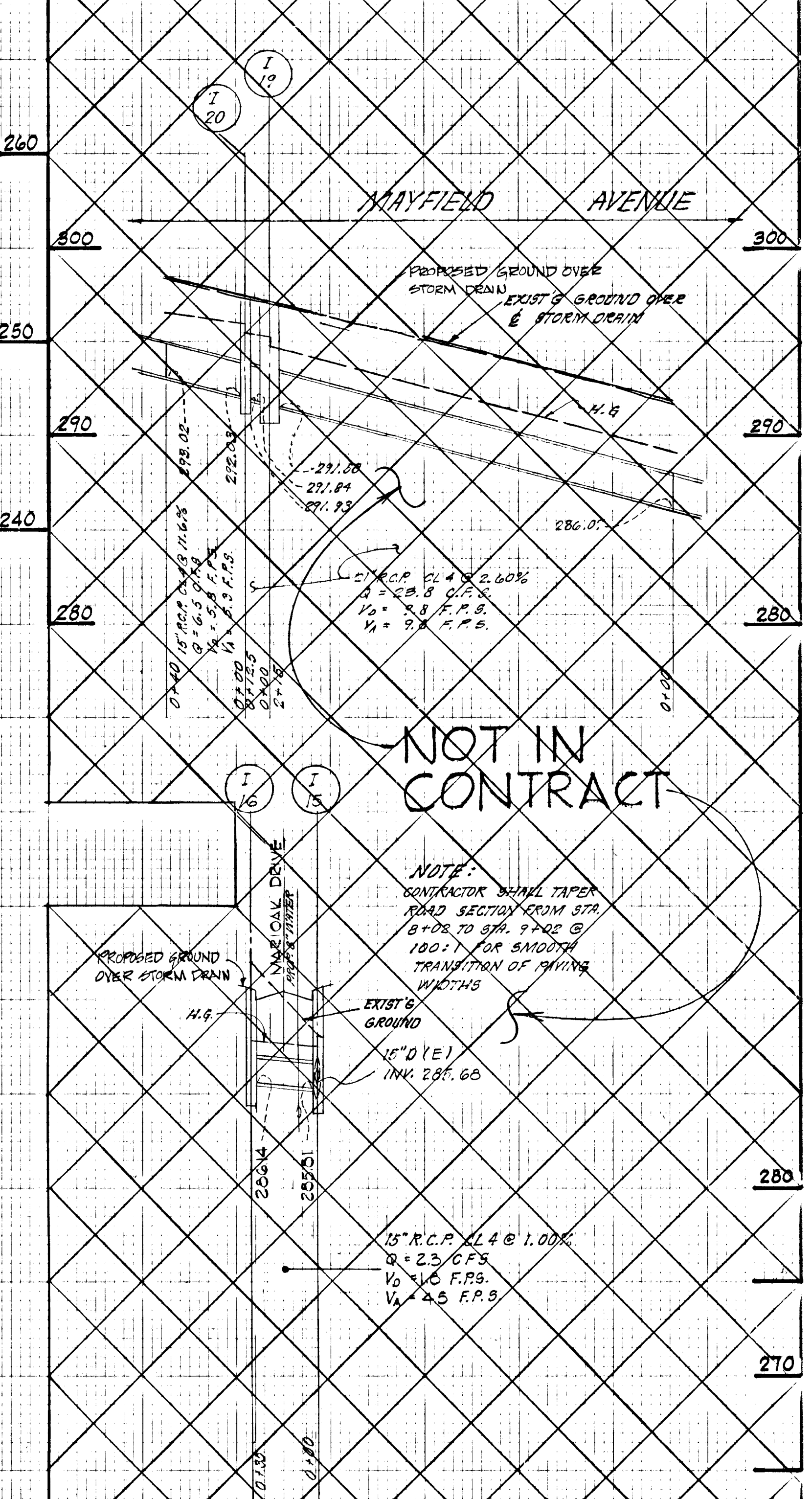
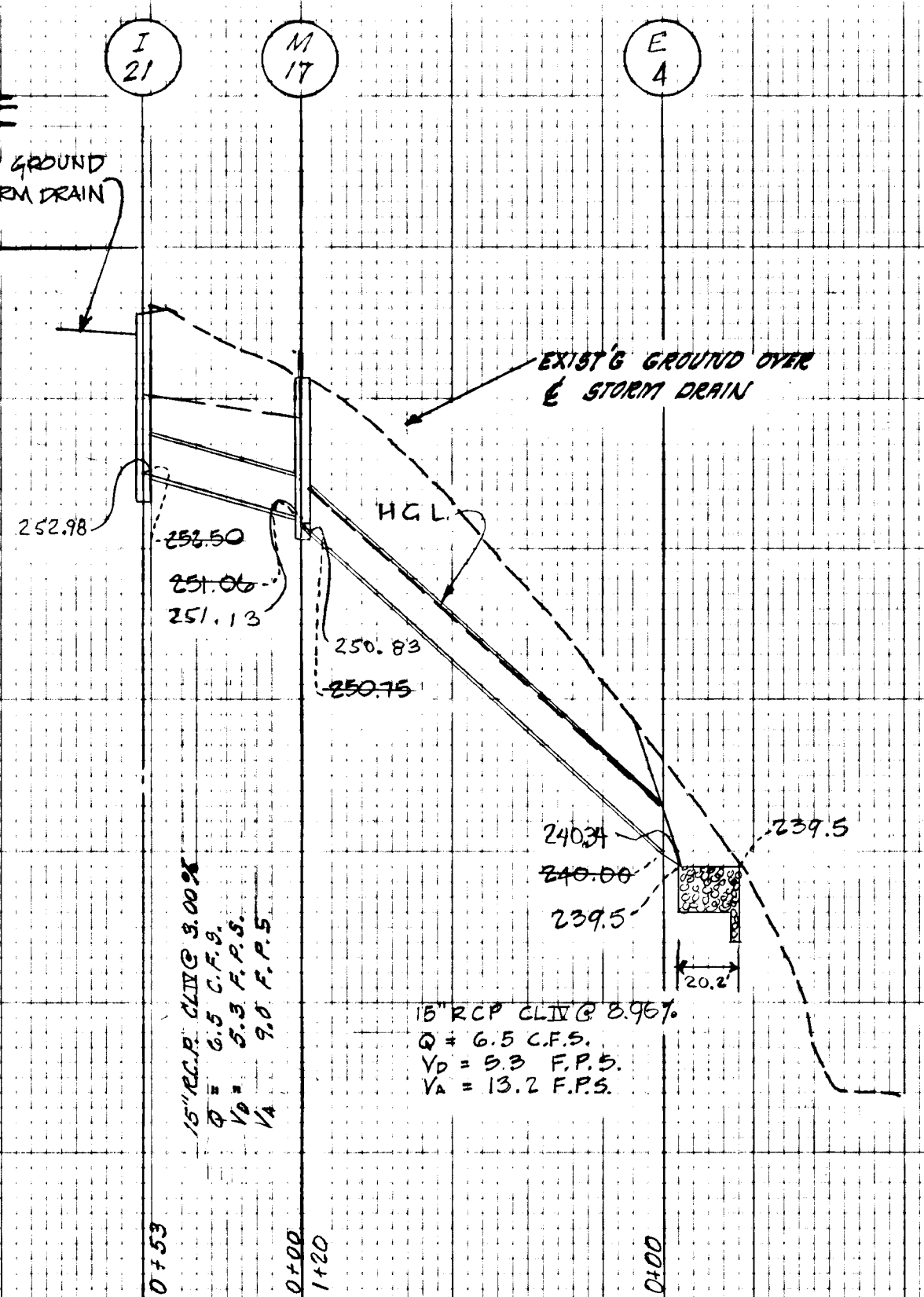


OUTLET PROTECTION DETAIL
NOT TO SCALE

NO.	TYPE	INV. IN	INV. OUT	1/4" ELEV.	3/4" NO.	ROAD STA.
M-15	TYPE 2	264.53	263.84	270.41	SD-3.03	7+19
I-12	A-10	266.85	266.21	272.33	SD-4.02	8+02
I-13	A-5	-	266.94	272.33	SD-4.01	8+02
E-4	END SECT.	-	240.34	-	SD-5.51	SEE PLAN
M-17	TYPE 2	251.04	250.75	257.73	SD-3.03	SEE PLAN
I-21	A-5	-	252.50	257.05	CL-4.01	1+12 (L.P.)



PROFILES
HORIZ. 1" = 50'
VERT. 1" = 5'



NOT IN CONTRACT

NOTE:
CONTRACTOR SHALL TAPER ROAD SECTION FROM STA. 8+02 TO STA. 9+02 @ 100:1 FOR SMOOTH TRANSITION OF FINISH WIDTHS

NOTE TO CONTRACTOR:
- STUBS REQUIRED FOR FUTURE EXTENSION OF STORM DRAINS SHALL BE CUT IN A MANNER TO PROVIDE STANDARD TONGUE AND GROOVE CONNECTIONS AT THE TERMINUS STATION OF THE STUB. ALL STUBS SHALL BE BARRICADED WITH MASONRY BRICK AND MORTAR (4-INCH MINIMUM WALL THICKNESS)
- TYPE 'O' BEDDING SHALL BE USED FOR ALL STORM DRAIN CONSTRUCTION.

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
PLANNING DIRECTOR: *William G. Rasch II* DATE: 2-16-82
CHIEF DIV. OF LAND DEV. & ZONING ADMINISTRATION

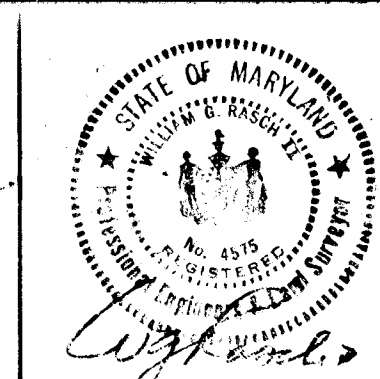
DEVELOPER:
I Certify That All Development And/or Construction Will Be Done According To This Plan Of Development And Plan For Erosion And Sediment Control, And I Also Authorized Periodic On Site Inspection By The Howard Soil Conservation District Or Their Authorized Agents As Are Deemed Necessary.
SIGNATURE OF DEVELOPER: *William G. Rasch II* DATE: 2-9-82

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
CHIEF BUREAU OF ENGINEERING DATE: *William G. Rasch II*

HOWARD SOIL CONSERVATION DISTRICT REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.
U.S. SOIL CONSERVATION SERVICE DATE: 2-16-82
THIS PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT
HOWARD SOIL CONSERVATION DIST. DATE: *William G. Rasch II*

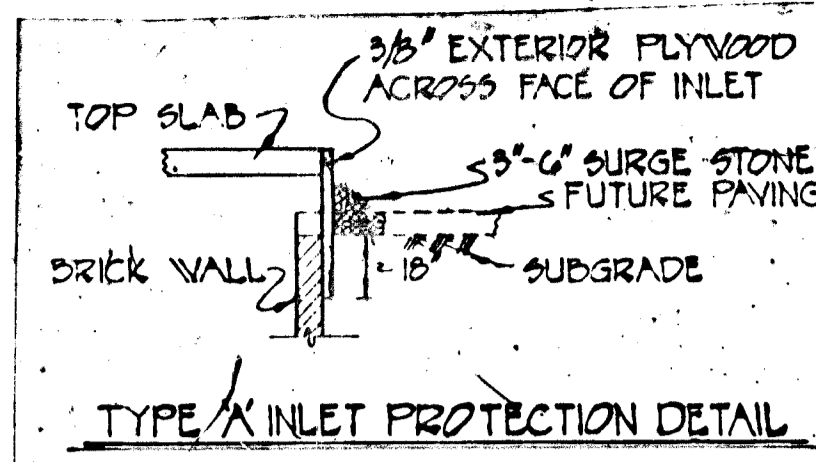
PURDUM & JESCHKE
CONSULTING ENGINEERS
LAND SURVEYORS
1023 North Calvert Street
Baltimore, Maryland 21202 301/837-0194

PROFESSIONAL ENGINEER
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 AND WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.
WILLIAM G. RASCH II DATE: 6/12/80



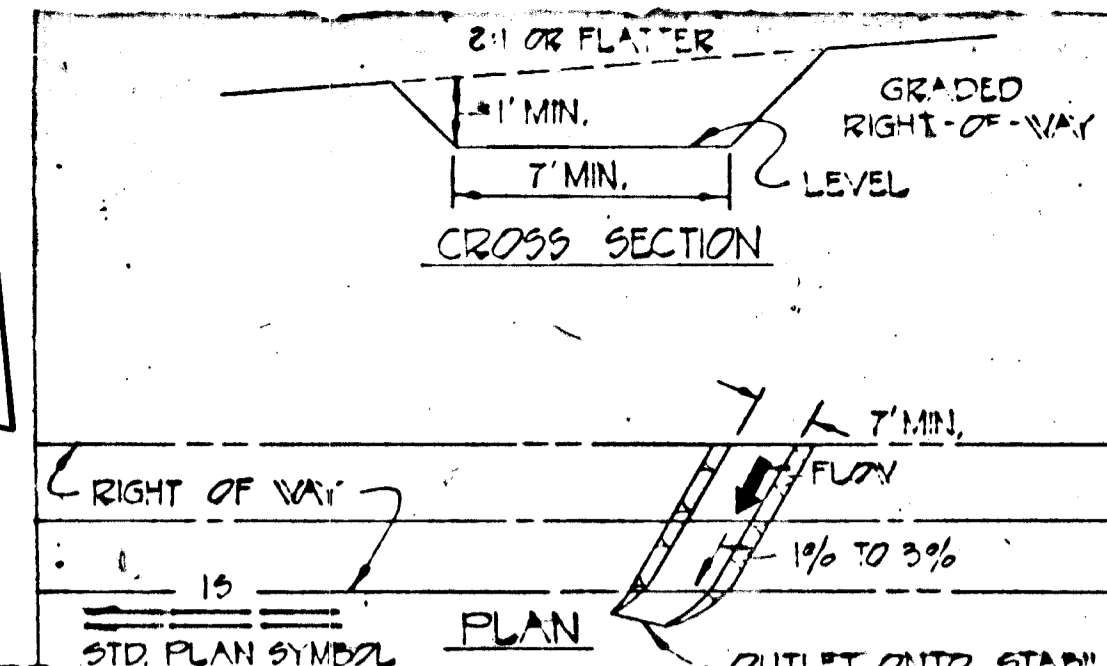
STORM DRAIN PROFILES
MAYFIELD MANOR
SECTION ONE AREA TWO
FIRST ELECTION DISTRICT HOWARD CO. MARYLAND
JULY 1980 SCALE: AS NOTED
TAX MAP 97 PARCEL 1G2

SHEET 3 OF 4
REV. PER CO. COMMENTS DATE:
DESIGNED: A.E.L.
DRAWN: J.O.
CHK'D: B.E.



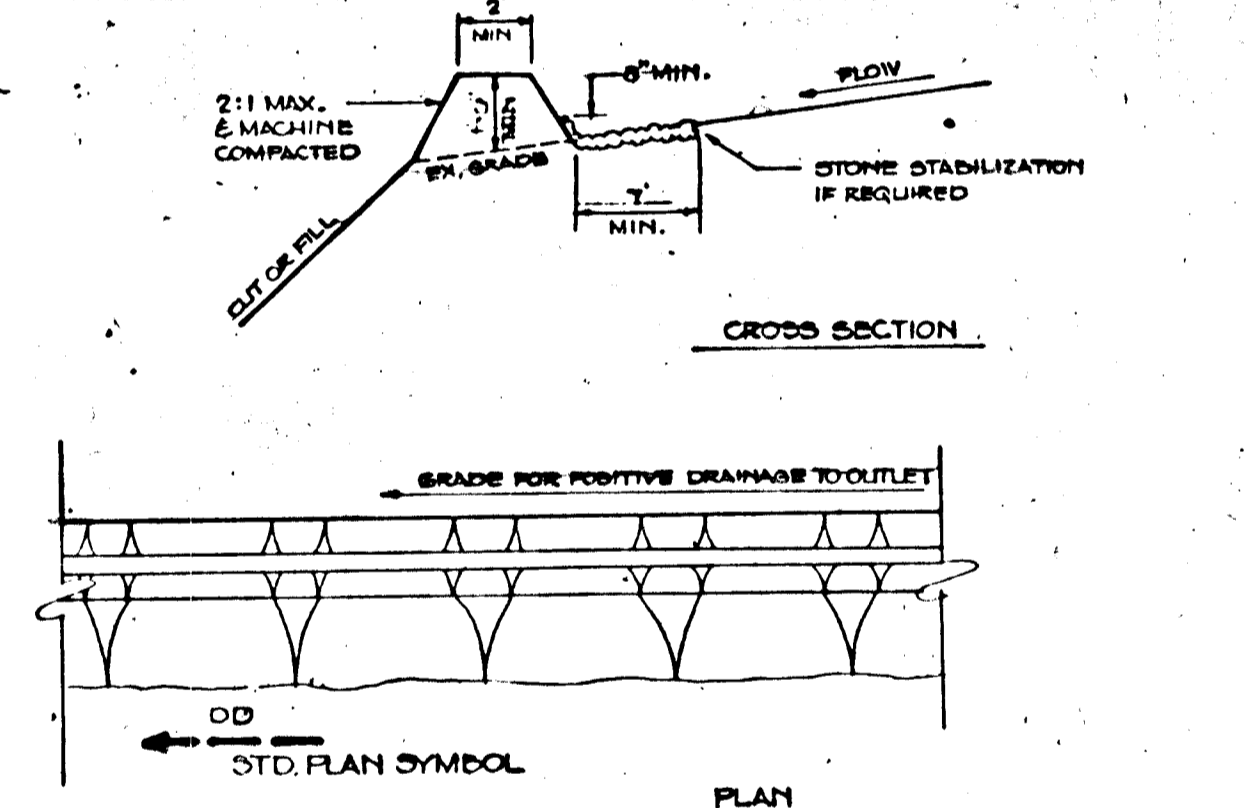
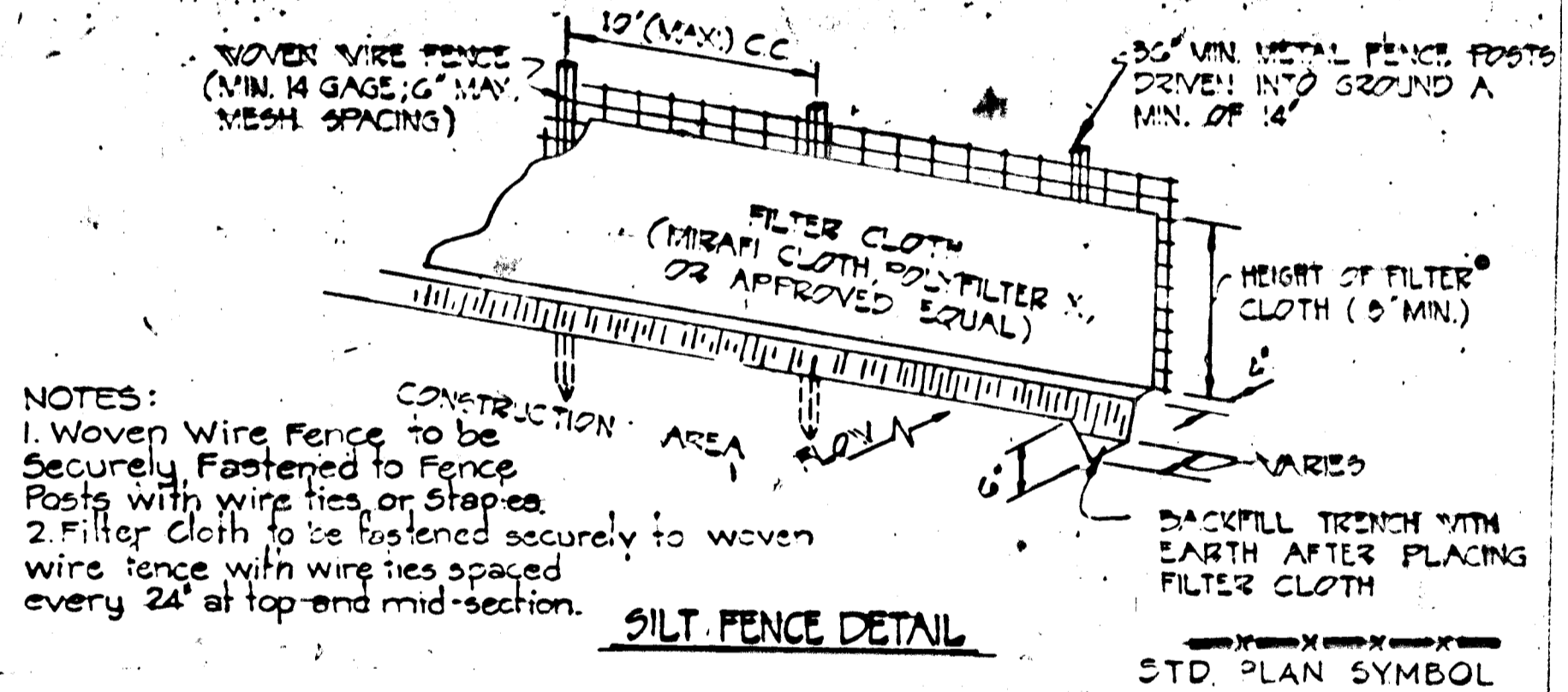
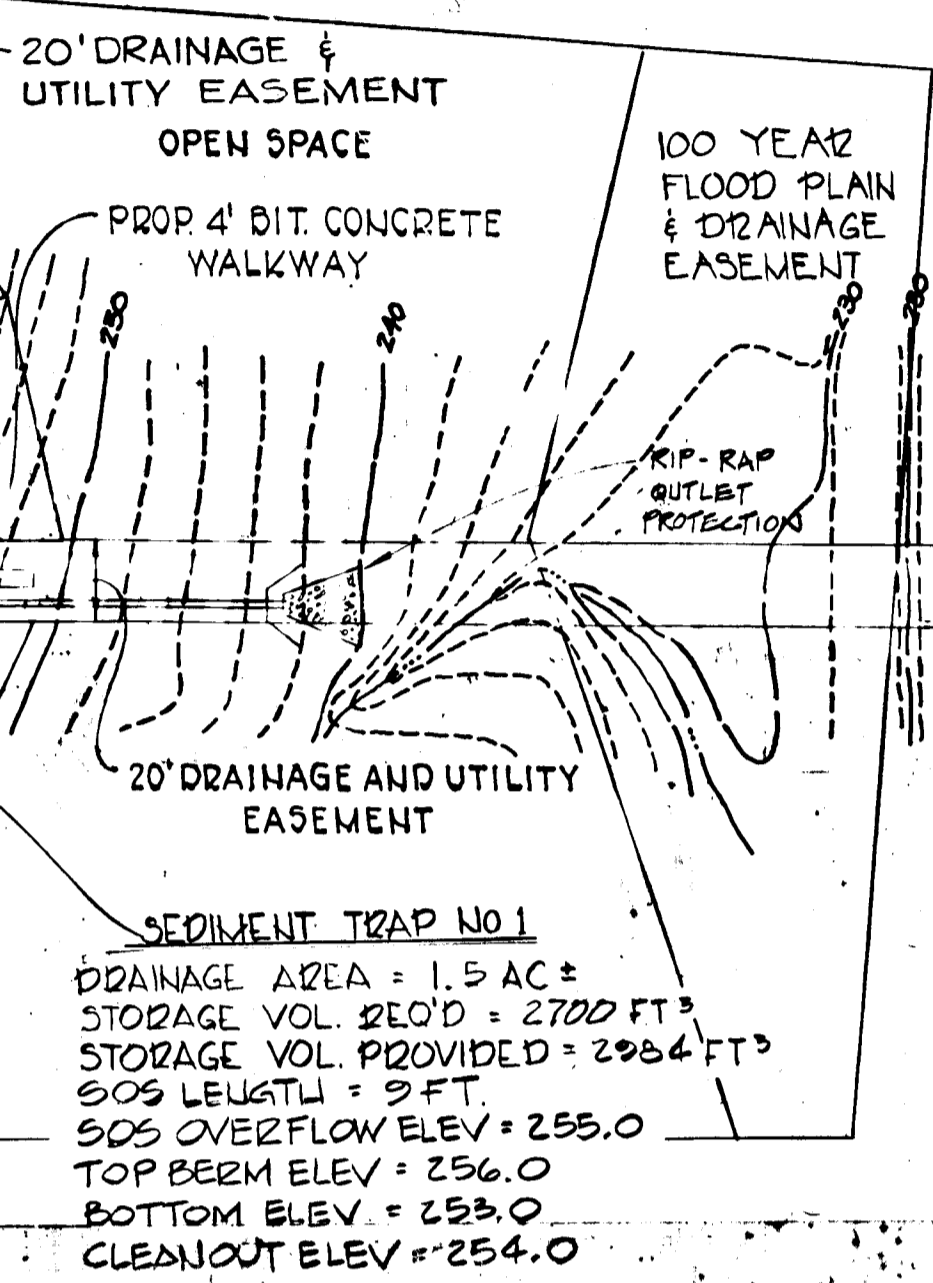
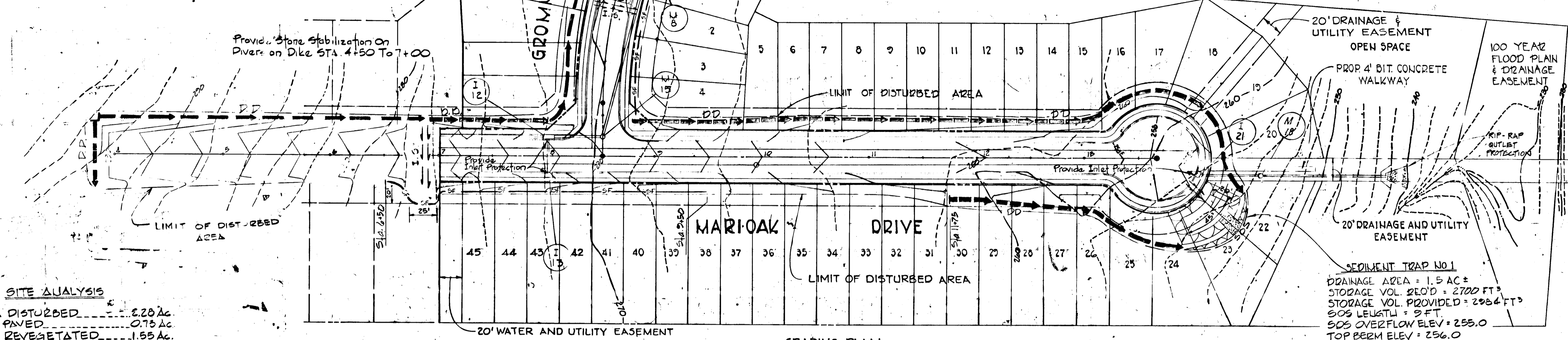
Provide Swale As Required To Maintain Positive Drainage Behind Diversion Dike. Stabilized Swale w/ temporary Seeding.

Provide Stone Stabilization On River on Dike STA. 4+50 TO 7+00



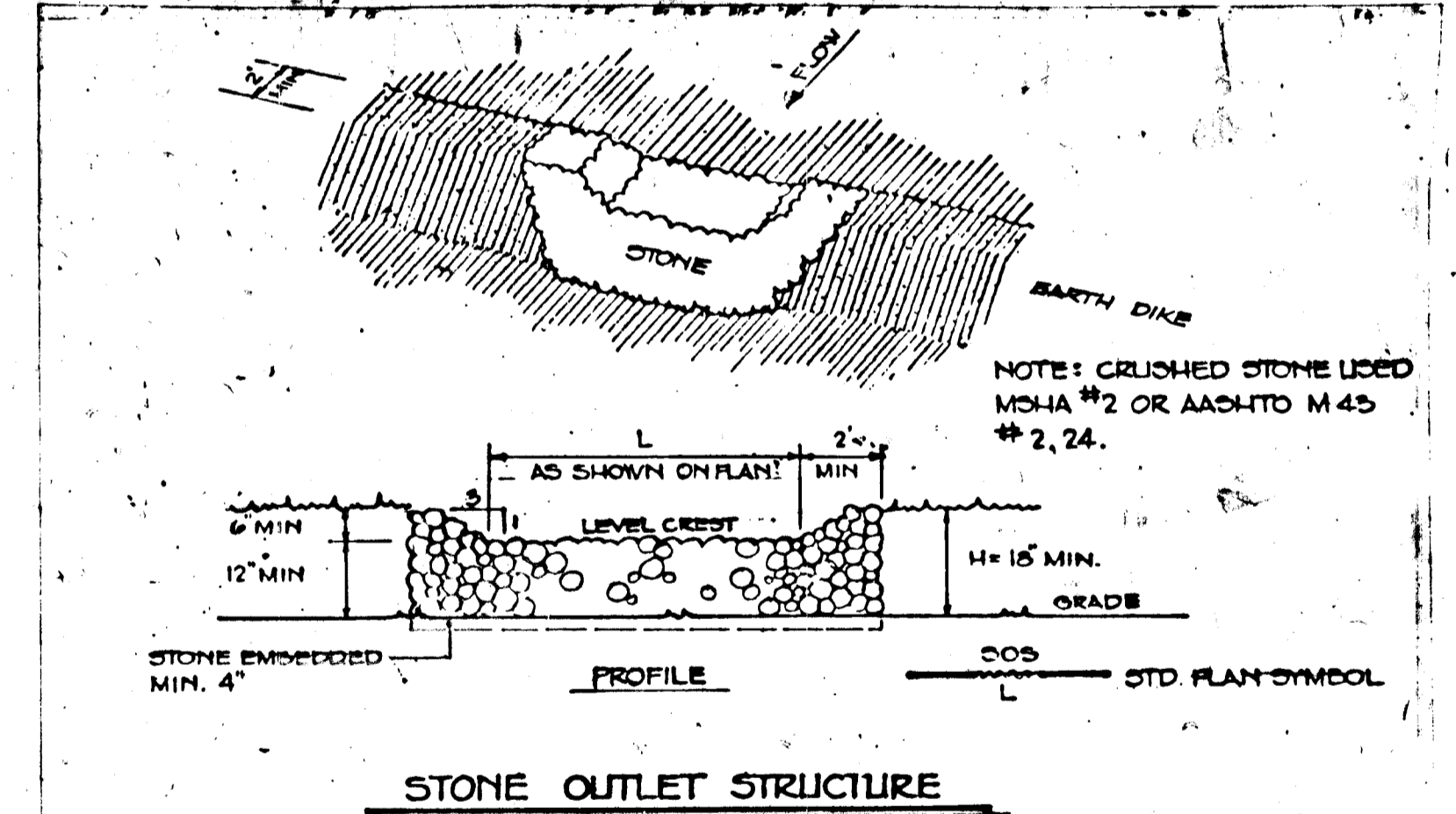
- INTERCEPTOR SWALE**
- All trees, brush, stumps, and other objectionable material shall be removed.
 - Swale shall be excavated or shaped to line, grade and cross section.
 - Swale shall have a minimum grade of 1 percent and the bottom shall be level.
 - Run off shall be diverted to a sediment control device.
 - Stabilization shall be in accordance with the Sediment Control Notes. Stone if required as shown on plan shall be MSHA No. 2 placed in a layer at least 3 inches in thickness. It shall extend across the bottom and up both sides of the channel at least 8 inches.

SITE ANALYSIS
 TOTAL AREA DISTURBED 2.20 AC
 AREA TO BE PAVED 0.75 AC
 AREA TO BE REVEGETATED 1.55 AC

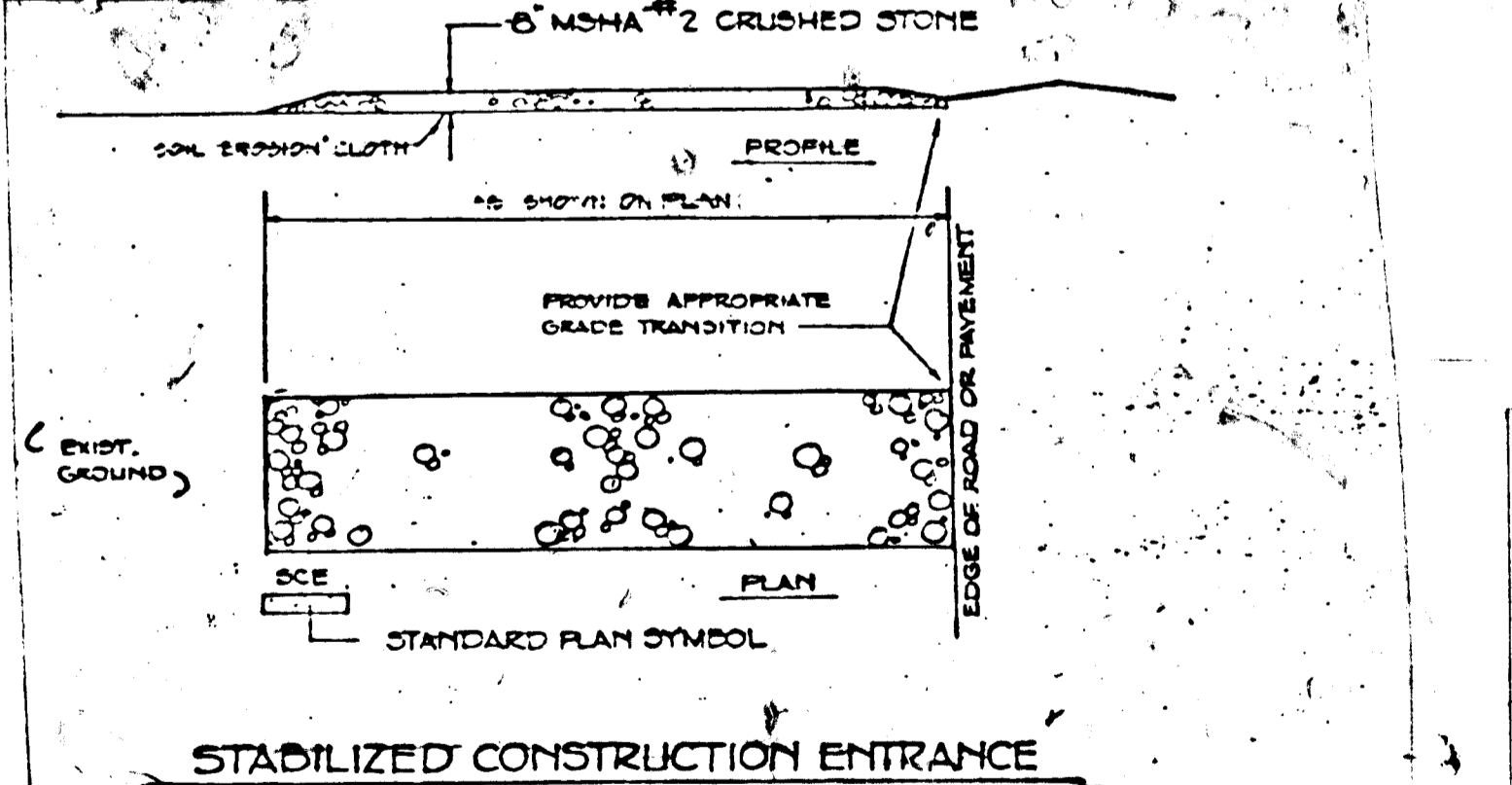


- CONSTRUCTION SEQUENCE:**
- Obtain grading permit.
 - Clear and grub for sediment control structures. Construct temporary Sediment Trap No. 1 and diversion dikes. Stabilize with temporary seeding.
 - Clear and grub for roadway construction.
 - Grade roadway to finished subgrade elevation.
 - Install water, sewer, and storm drains. Repair Sediment Control Devices As Required.
 - Install curb and gutter and concrete sidewalks.
 - Stabilize all disturbed areas outside of roadway with permanent seeding.
 - Pave roadway.
 - Remove temporary sediment control devices when permanent seeding is established. Lower sediment trap and restore area to original grade; stabilize with permanent seeding.

- SEEDING CONTROL NOTES**
- Specifications for the Sediment Control Details shown herein are included in the M.S.D.A. Soil Conservation Service, "Standards and Specifications for Soil Erosion and Sediment Control in Developing Areas."
 - The developer shall notify the Howard County Office of Inspection and Permits at least 24 hours prior to beginning any construction shown hereon (992-2435 or 992-2436).
 - 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 (992-2435 or 992-2436).
 - All graded areas shall be stabilized in accordance with the following requirements:
 - Site Preparation:
 - Harrow or disc the areas to be seeded with the following materials at the specified rate to a depth of 3":
 - Pulverized limestone at 1 1/2 tons/acre.
 - Commercial fertilizer 10-10-10 at 3/4 tons/acre.
 - Super phosphate at 600 lbs./acre.
 - Seeding:
 - Sow the following seed mixture at the specified rate with a mechanical spreader.
 - Temporary - Italian or Perennial Ryegrass (1 lb./1000 sq. ft.)
 - Permanent - (Slopes flatter than 3:1) - Common Kentucky Bluegrass 40%, Monon Bluegrass 40%, Red Fescue 20% (3 lb./1000 sq. ft.) (Slopes steeper than 3:1) - Ground Cover
 - The seeded area shall be raked with a York Rake (minimum of 2 passes), covered and compacted with a cultipacker or other approved method.
 - Mulching:
 - Seeded areas shall be uniformly mulched immediately after seeding with unweathered small grain straw at the rate of 1 1/2 to 2 tons/acre.
 - Tie mulch down with liquid asphalt at 0.1 gal./s.y. or emulsified asphalt at 0.04 gal./s.y.
 - Sodding:
 - Apply 10-10-10 fertilizer at 1000 lbs./acre. (25 lbs./1000 s.f.)
 - Apply ground agricultural limestone at 2000 lbs./acre. (50 lbs./1000 s.f.)
 - Incorporate both lime and fertilizer into soil by disking. Firm up after incorporation.
 - Lay sod to a tight fit. Roll to insure contact with underlying soil. Water as necessary for first two weeks (in summer) to ensure establishment.
 - Ground Cover:
 - Crown vetch (innoculated) at 15 lbs./acre, and Kentucky 31 Tall Fescue (certified) at 40 lbs./acre. (2:1 maximum slope)
 - The contractor shall place plywood braced with sand bags at the inlet end of unfinished drain pipes at the end of each work day.
 - All stockpiles shall be protected with straw bale dikes, silt fences, or other approved sediment control devices.



- Area under embankment shall be cleared, grubbed, and stripped of vegetation and root mat. Trap area shall be cleared.
- Embankment material shall be free of roots, large stones, rocks, organic or other objectionable material. Compact with construction equipment.
- All cut or fill slopes shall be 2:1 or flatter.
- Crushed stone shall meet AASHTO designation #43, Size No. 2 or 24 (MSHA No. 2). Gravel may be used, crusher-run is unacceptable.
- Clean out when sediment has reached the elevation noted.



- Stone size - MSHA No. 2 or AASHTO designation #43 size No. 2.
- Place stone on soil erosion cloth for its entire width and length.
- When necessary, wheels shall be washed to remove sediment prior to entering public road.

HOWARD SOIL CONSERVATION DISTRICT:
 REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.
 Date: 2-16-82
 U.S. SOIL CONSERVATION SERVICE

THIS PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
 Date: 2/16/82
 WILLIAM J. RANNEY
 HOWARD SOIL CONSERVATION DIST.

APPROVED: Howard County Department of Public Works
 Date: 2-22-82
 WILLIAM G. RUSSELL
 CHIEF, BUREAU OF ENGINEERING

APPROVED: Howard County Office of Planning and Zoning
 Date: 2-16-82
 WILLIAM J. RANNEY
 CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION

DEVELOPER:
 "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."
 Date: 2-9-82
 JAMES R. SCHMIDT
 Signature of Developer

PURDUM & JESCHKE
 CONSULTING ENGINEERS
 LAND SURVEYORS
 1023 North Calvert Street
 Baltimore, Maryland 21202 301/837-0194

ENGINEER:
 "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 and that it was prepared in accordance with the requirements of the Howard Soil Conservation District."
 Date: 2/9/82
 WILLIAM G. RUSSELL, II, Reg. No. 4575



SEDIMENT CONTROL
MAYFIELD MANOR
 SECTION I AREA 2
 FIRST ELECTION DISTRICT HOWARD CO MARYLAND
 JUNE 1980 SCALE: 1"=50'
 TAX MAP 37 PARCEL: 162

SHEET 4 OF 4
 REV. 11/4/81 11/30/81
 DESIGNED: AEL
 DRAWN: JEB
 CHECKED: B.E.