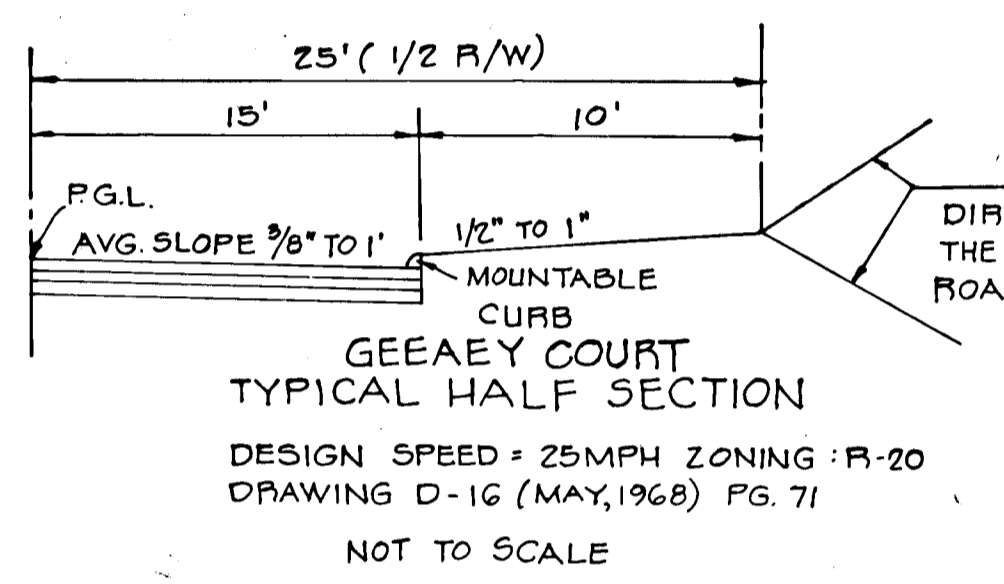
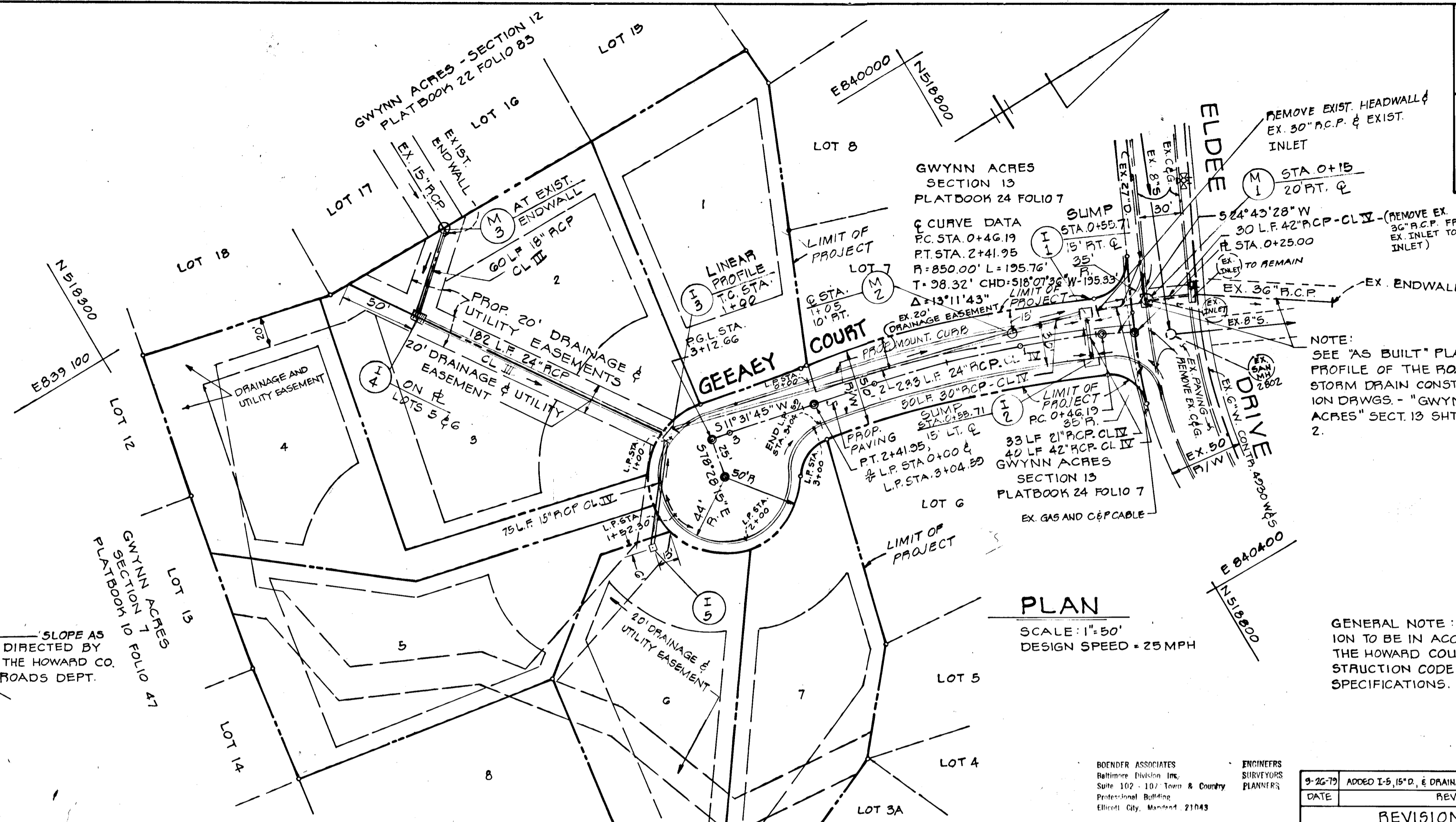


MOUNTABLE CURB  
DETAIL  
DRAWING D-39 PAGE 94  
NOT TO SCALE



GEEAEY COURT  
TYPICAL HALF SECTION  
DESIGN SPEED = 25MPH ZONING: R-20  
DRAWING D-16 (MAY, 1968) PG. 71  
NOT TO SCALE



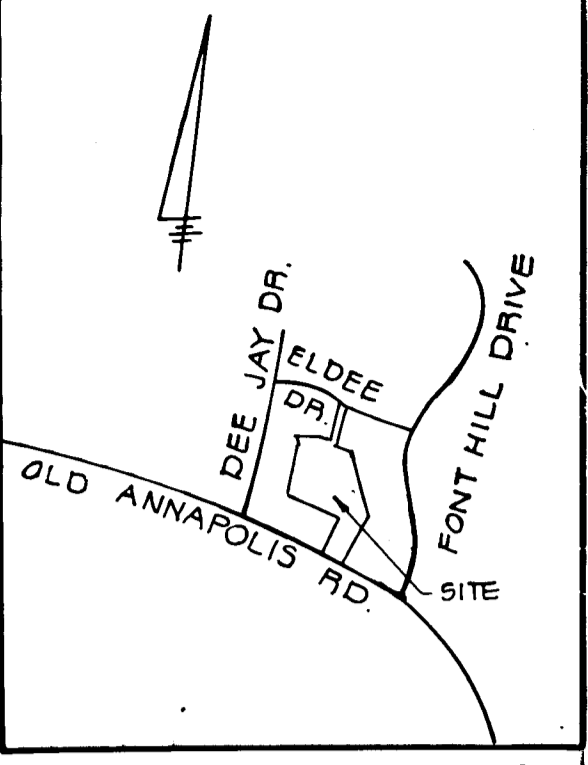
PLAN  
SCALE: 1" = 50'  
DESIGN SPEED = 25 MPH

GENERAL NOTE: ALL CONSTRUCTION TO BE IN ACCORDANCE WITH THE HOWARD COUNTY ROAD CONSTRUCTION CODE AND STANDARD SPECIFICATIONS.

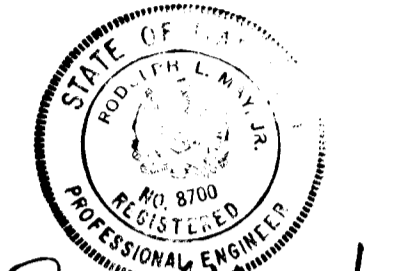
APPROVED: DEPARTMENT OF PUBLIC WORKS  
*Allen S. Brown* 11/6/79  
for CHIEF, BUREAU OF ENGINEERING DATE  
APPROVED: OFFICE OF PLANNING AND ZONING  
*Shull M. Muehlen* 11/6/79  
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

BITUM. CONC. SURFACE	1" BAND C-3
BITUM. CONC. BINDER	2 1/2" BAND C-2
CRUSHER RUN BASE	7"

PAVING SPECIFICATION  
NO. 5  
HOWARD CO. DRWG. D-4 PG. 59  
1. TO BE CONSTRUCTED IN ACCORDANCE WITH THE HOWARD CO. ROAD CONSTRUCTION CODE AND STANDARD SPECIFICATIONS.  
2. BASE WILL BE PRIMED IN ACCORDANCE WITH SECTION C-30-3 AS PROVIDED IN THE HOWARD CO. ROAD CONSTRUCTION CODE AND STANDARD SPECIFICATIONS.  
3. TACK COAT IS IN ACCORDANCE WITH SECTION C-31-4 OF THE HOWARD CO. ROAD CONSTRUCTION CODE AND STANDARD SPECIFICATIONS.



VICINITY MAP  
SCALE: 1" = 1200'

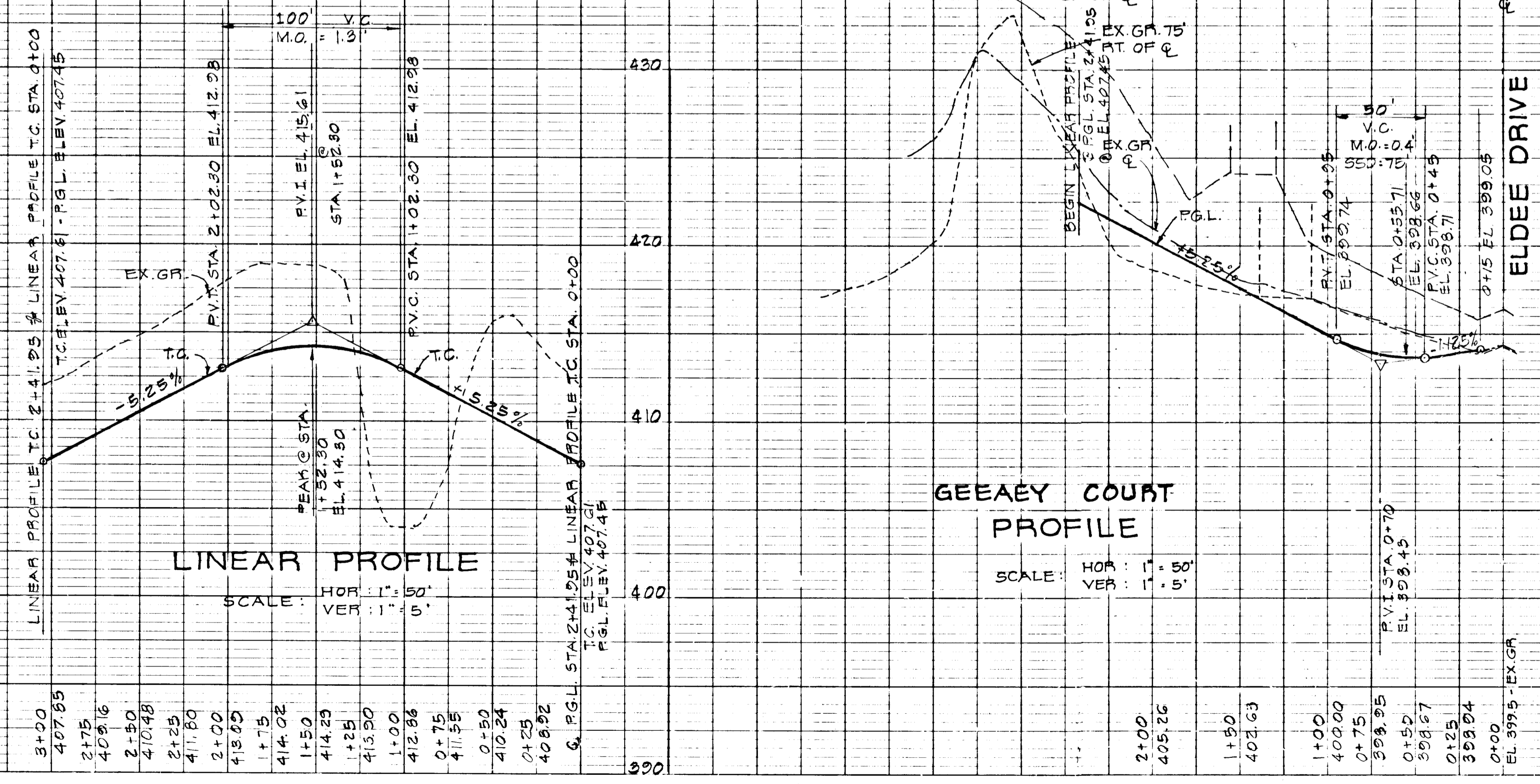


OWNER & DEVELOPER  
*Richard J. Mueller* 9-27-78  
RICHARD J. MUELLER  
9123 OLD ANNAPOLIS ROAD  
ELlicOTT CITY, MD. 21043

BOENDER ASSOCIATES Baltimore Edition Inc. Suite 102 - 107 Town & Country Professional Building Ellicott City, Maryland 21043	ENGINEERS SURVEYORS PLANNERS
--	------------------------------------

TITLE	GEEAEY COURT : ROAD CONSTRUCTION PLANS		
PROJECT	RICHARD J. MUELLER PROPERTY		
LOCATION	2ND ELECTION DISTRICT HOWARD COUNTY, MD.		
DATE:	SEPT. 1978	DESIGN BY: W.H.N.	DRAWN BY: W.H.N.
SCALE:	AS SHOWN	JOB NO.: 77254	DRAWING NO.: 1 OF 4
CHECKED BY:	P.L.M.		

boender associates  
engineers  
surveyors  
planners  
BALTIMORE 301-465-7777 • SALISBURY 301-749-1286



LINEAR PROFILE  
SCALE: HOR: 1" = 50'  
VER: 1" = 5'

GEEAEY COURT  
PROFILE  
SCALE: HOR: 1" = 50'  
VER: 1" = 5'

DATE	
BY	
NO.	

DATE	
BY	
NO.	

**CONSTRUCTION SEQUENCE**

1. OBTAIN GRADING PERMIT.
2. NOTIFY HOWARD COUNTY BUREAU OF LICENSE, INSPECTIONS AND PERMITS 24 HOURS PRIOR TO GRADING OPERATIONS. PHONE 302-2435.
3. PUMP POND DRY.
4. REMOVE RISER LEAVING BARREL IN PLACE.
5. INSTALL TEMPORARY SEDIMENT CONTROL MEASURES - P.D., D.D., I.D., S.C.E. AND SILT FENCE. APPLY TEMPORARY STABILIZATION MEASURES TO ALL DIKES.
6. FILL SOUTHEAST PORTION OF POND BOTTOM TO ELEV. 410 FROM 5' NORTHWEST OF PIPE, OPERATING TRAP NO. 1. SEE PHASE I SEDIMENT TRAP DETAIL, THIS SHEET.
7. INSTALL STORM DRAINS, BLOCKING UPSTREAM END AT NIGHT. ABANDON BARREL OF EXISTING POND.
8. ROUGH GRADE ROAD AND LOTS CREATING TRAPS AT 1-3 AND 1-4 AS FILL IS PLACED AND MAINTAINING SEDIMENT CONTROL MEASURES.
9. STABILIZE PAVING AREA WITH BASE COURSE AND LANDSCAPE AREAS WITH TEMPORARY STABILIZATION MEASURES.
10. CONSTRUCT HOUSES AND PAVING. COMPLETE THE PERMANENT STABILIZATION MEASURES.
11. REMOVE TEMPORARY SEDIMENT CONTROL MEASURES WITH APPROVAL OF HOWARD COUNTY BUREAU OF LICENSE, INSPECTIONS AND PERMITS.

**SITE ANALYSIS**

TOTAL AREA = 4.0 AC.  
 AREA DISTURBED = 4.7 AC.  
 AREA PAVED = 0.9 AC. (INCLUDING HOUSING AREA)  
 AREA REVEGETATED = 3.8 AC.  
 AREA UNDISTURBED = 0.2 AC.

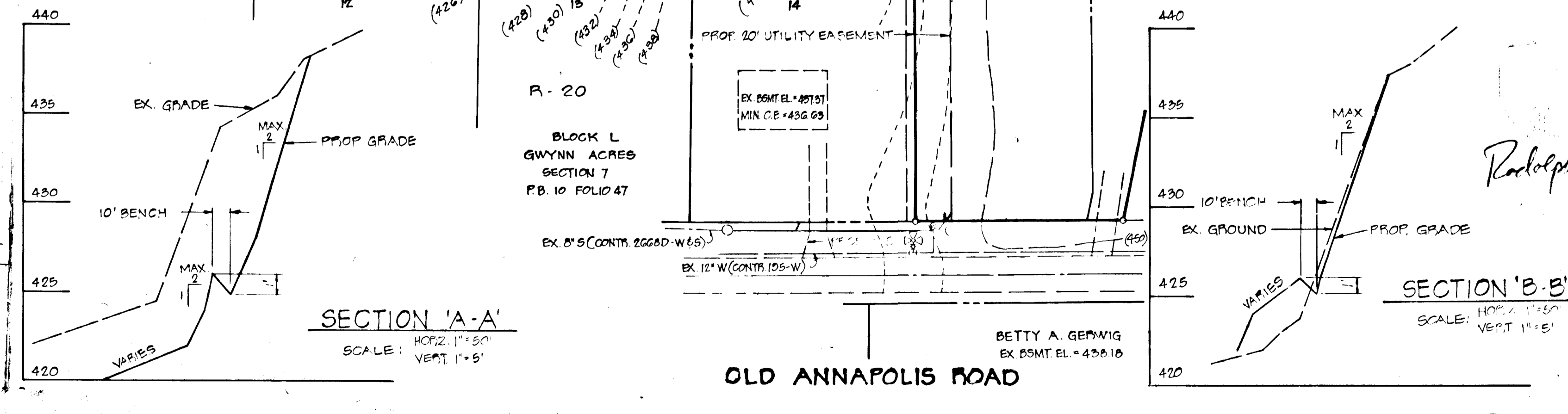
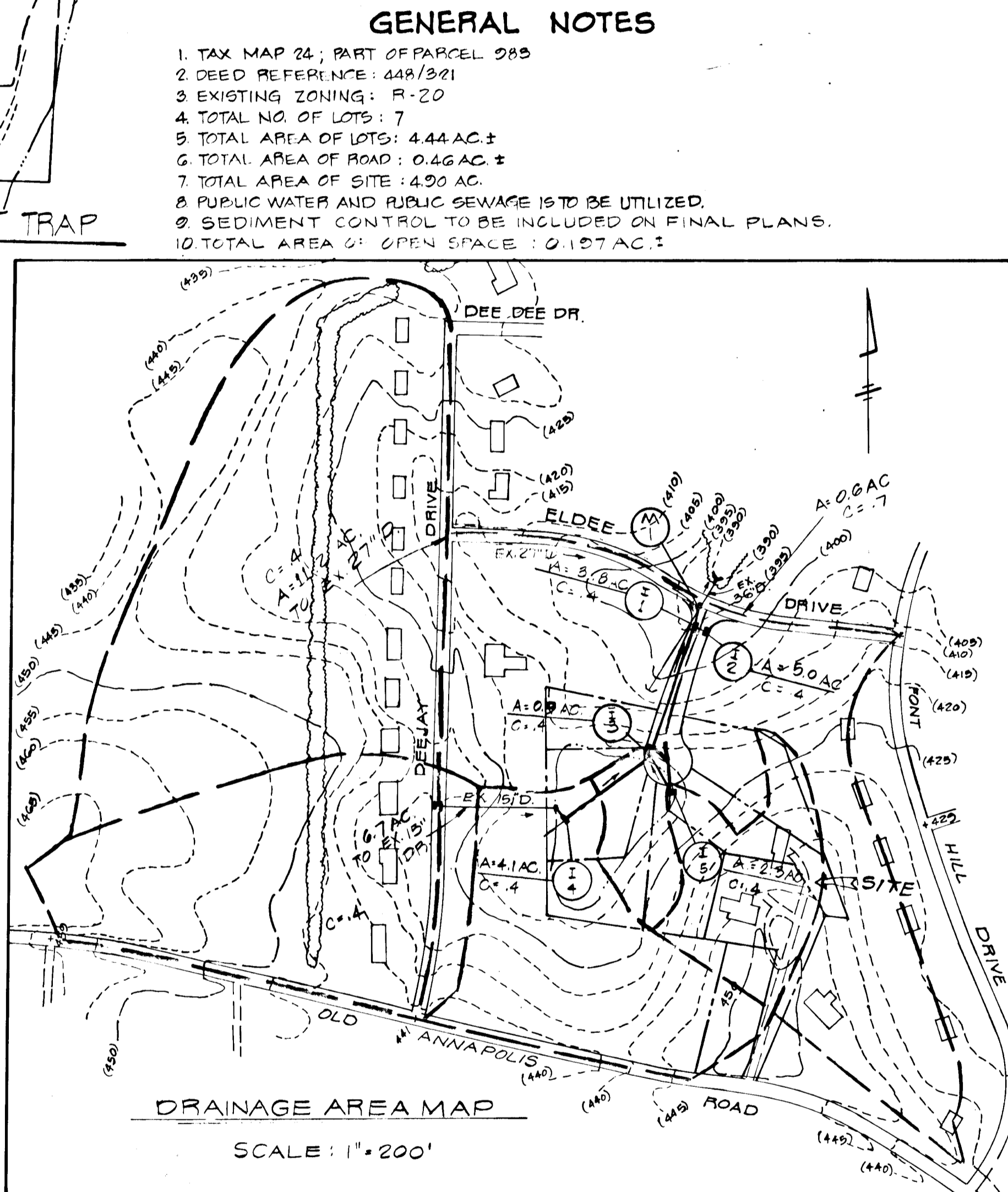
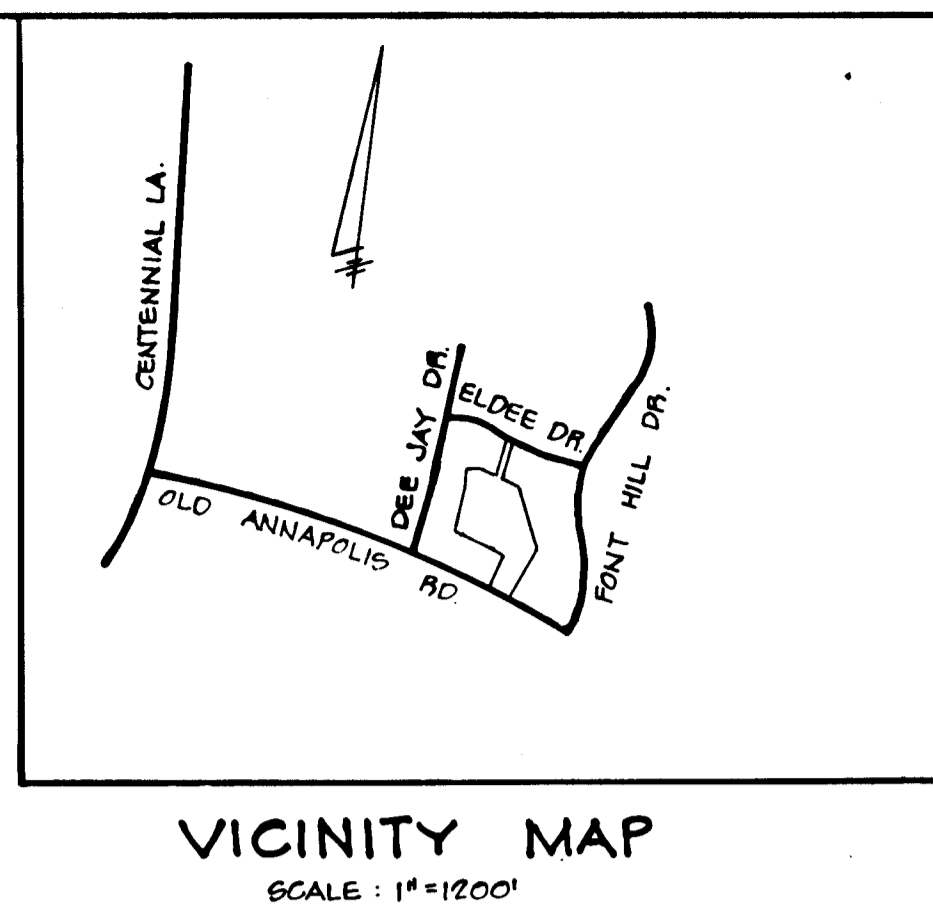
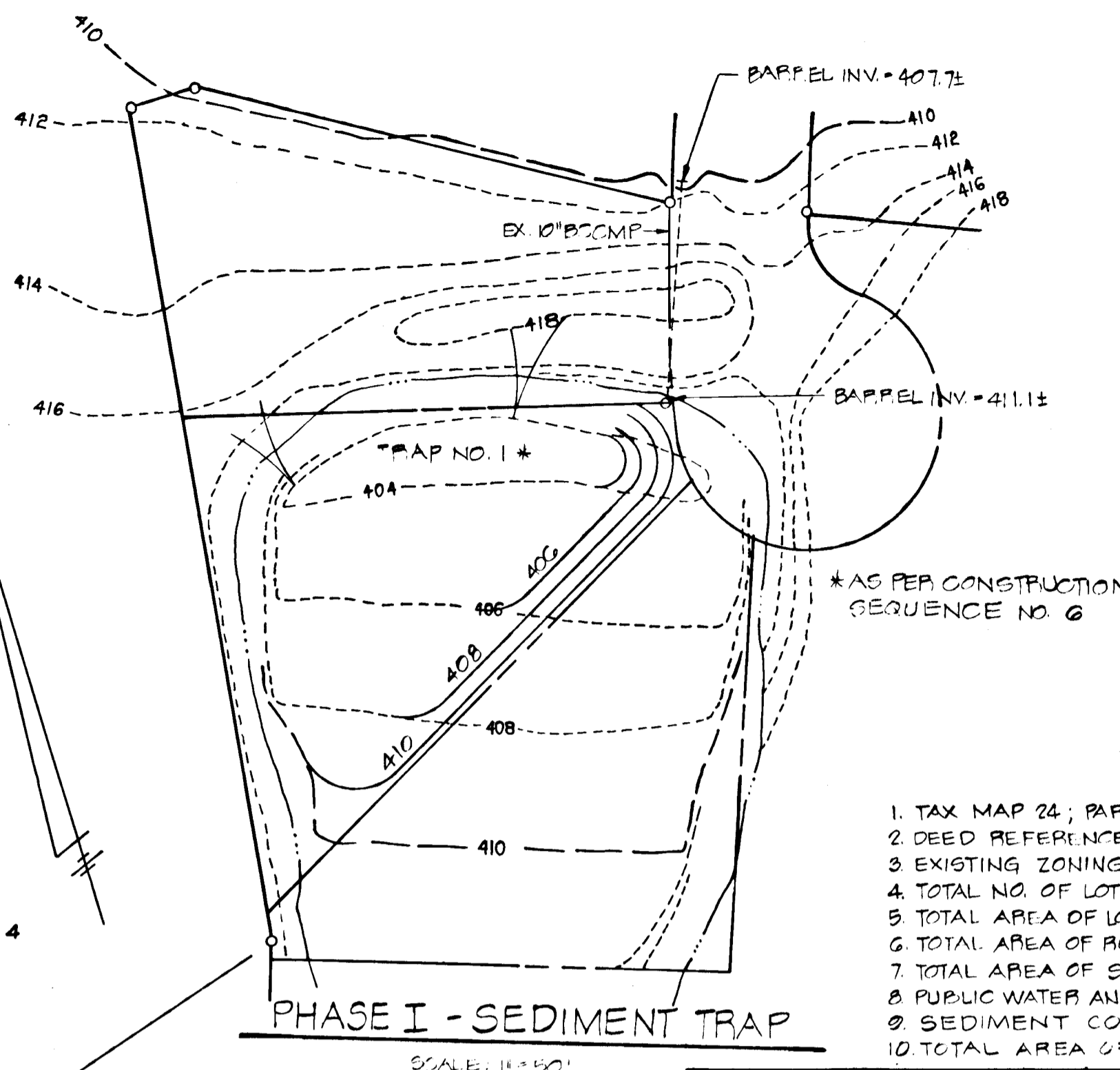
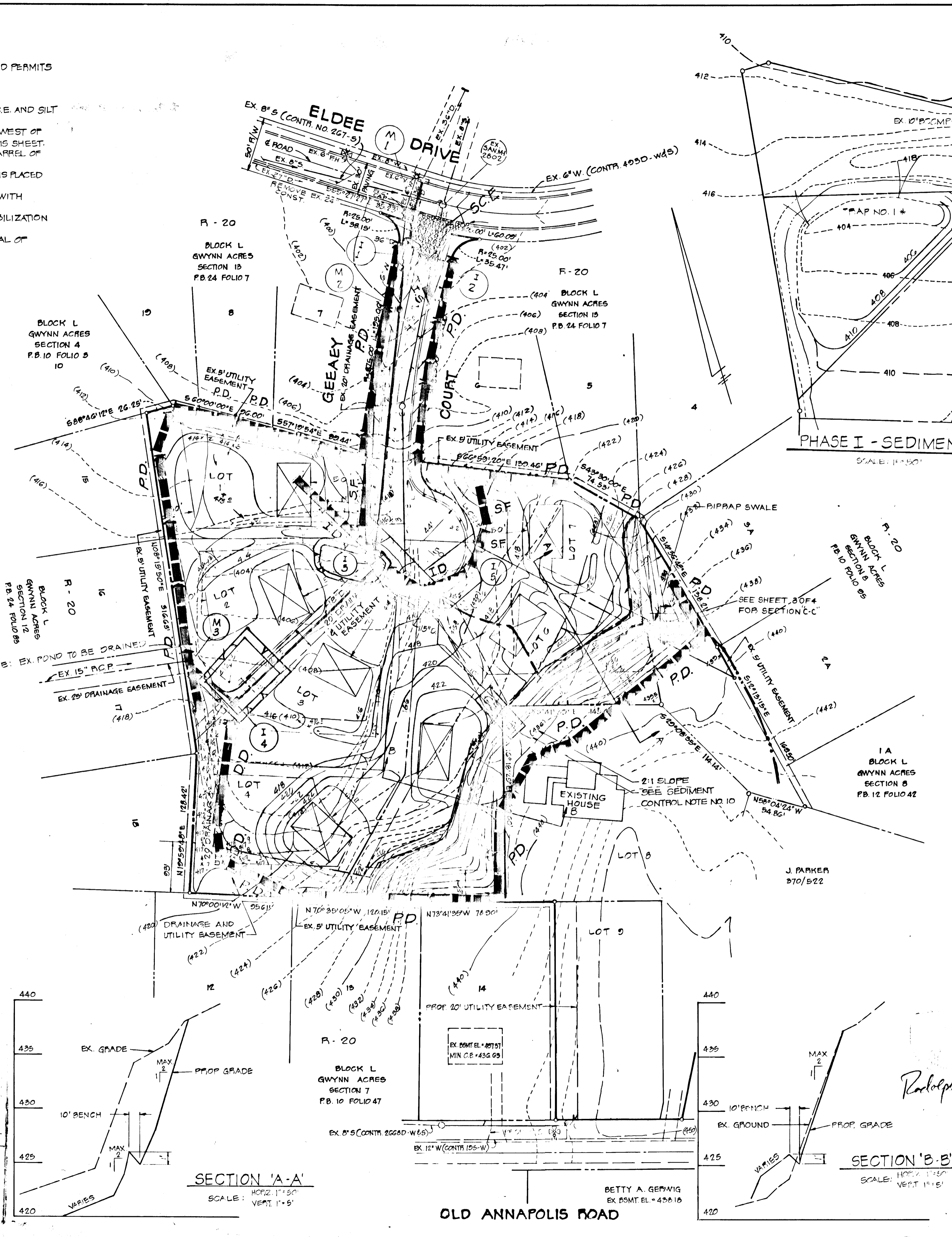
**SEDIMENT TRAPS**

- TRAP @ I-4**  
 AREA = 4.1 AC.  
 VOLUME REQ'D = 7380 C.F.  
 VOLUME PROVIDED = 7500 C.F.  
 SIZE = 60' X 20' X 2.5' DEEP  
 BOTTOM ELEV. = 408.0 SPILLWAY ELEV. 410.50  
 CLEANOUT ELEV. = 409.25
- TRAP @ I-3**  
 AREA = 2.0 AC.  
 VOLUME REQ'D = 5220 C.F.  
 VOLUME PROVIDED = 5363 C.F.  
 SIZE = 65' X 33' X 2.5' DEEP  
 BOTTOM ELEV. 408.0  
 CLEANOUT ELEV. 404.25  
 SPILLWAY ELEV. 405.50
- TRAP @ I-1**  
 AREA = 0.50 AC.  
 VOLUME REQ'D = 900 C.F.  
 VOLUME PROVIDED = 1000 C.F.  
 SIZE = 20' X 20' X 2.5' DEEP  
 BOTTOM ELEV. = 397.0  
 CLEANOUT ELEV. = 398.25  
 SPILLWAY ELEV. = 399.50

FOR DELIVERED TO THE CLIENT BY  
 Allen S. Brown 11/8/79  
 CHECKED OFFICE FOR PLANNING AND ZONING  
 [Signature] 11-6-79

REVIEWED FOR HOWARD S.C.D. AND MILETS TECHNICAL REQUIREMENTS.  
 James Helm 11-6-79  
 THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.  
 Robert Zahn 11-6-79

**DEVELOPER'S CERTIFICATE**  
 I HEREBY CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION HAS BEEN ACCORDING TO THE PLAN AND SPECIFICATIONS AND THAT THE DEVELOPMENT IS IN ACCORDANCE WITH THE HOWARD SOIL CONSERVATION DISTRICT REGULATIONS AND THAT THIS PLAN WILL NOT BE IN VIOLATION OF ANY DISTRICT REGULATIONS.  
 Richard J. Mueller 11/15/79  
 RICHARD J. MUELLER  
 [Signature]  
 [Signature] 9-27-78  
 THIS IS A PRACTICAL AND NECESSARY DEVELOPMENT AND CONSTRUCTION IN ACCORDANCE WITH THE HOWARD SOIL CONSERVATION DISTRICT REGULATIONS.  
 [Signature]  
 STATE OF MARYLAND  
 REGISTERED PROFESSIONAL ENGINEER



0-26-79	REV. DRAINAGE AREAS, ADDED 15' 10" AIR GAP SWALE & DRAINAGE EASEMENTS
DATE	REVISION
REVISIONS	

OWNER & DEVELOPER  
 RICHARD J. MUELLER  
 2123 OLD ANNAPOLIS RD  
 ELLICOTT CITY, MD. 21043

<b>DRAINAGE AREA MAP &amp; SEDIMENT CONTROL PLAN</b>			
PROJECT: R. J. MUELLER PROPERTY LOTS 1 THRU 5			
LOCATION: 2ND ELECTION DISTRICT - PART OF PARCEL 283 - HOWARD COUNTY, MD.			
DATE:	DESIGN BY: W.H.N.	DRAWN BY: GEV	CHECKED BY: R.L.M.
SCALE: AS SHOWN	JOB NO.: 77294	DRAWING NO.: 2 OF 4	
boender associates		engineers surveyors planners	

APPROVED: DEPARTMENT OF PUBLIC WORKS.

*Allen L. Brown* 11/8/79  
 CHIEF, BUREAU OF ENGINEERING DATE

APPROVED: OFFICE OF PLANNING AND ZONING  
*Robert W. Ziehm* 11-6-79  
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

REVIEWED FOR HOWARD S.C.D. AND MEETS TECHNICAL REQUIREMENTS.

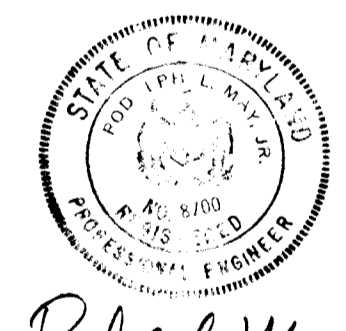
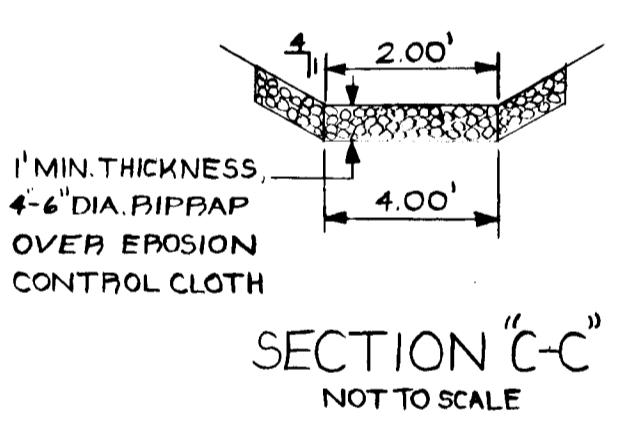
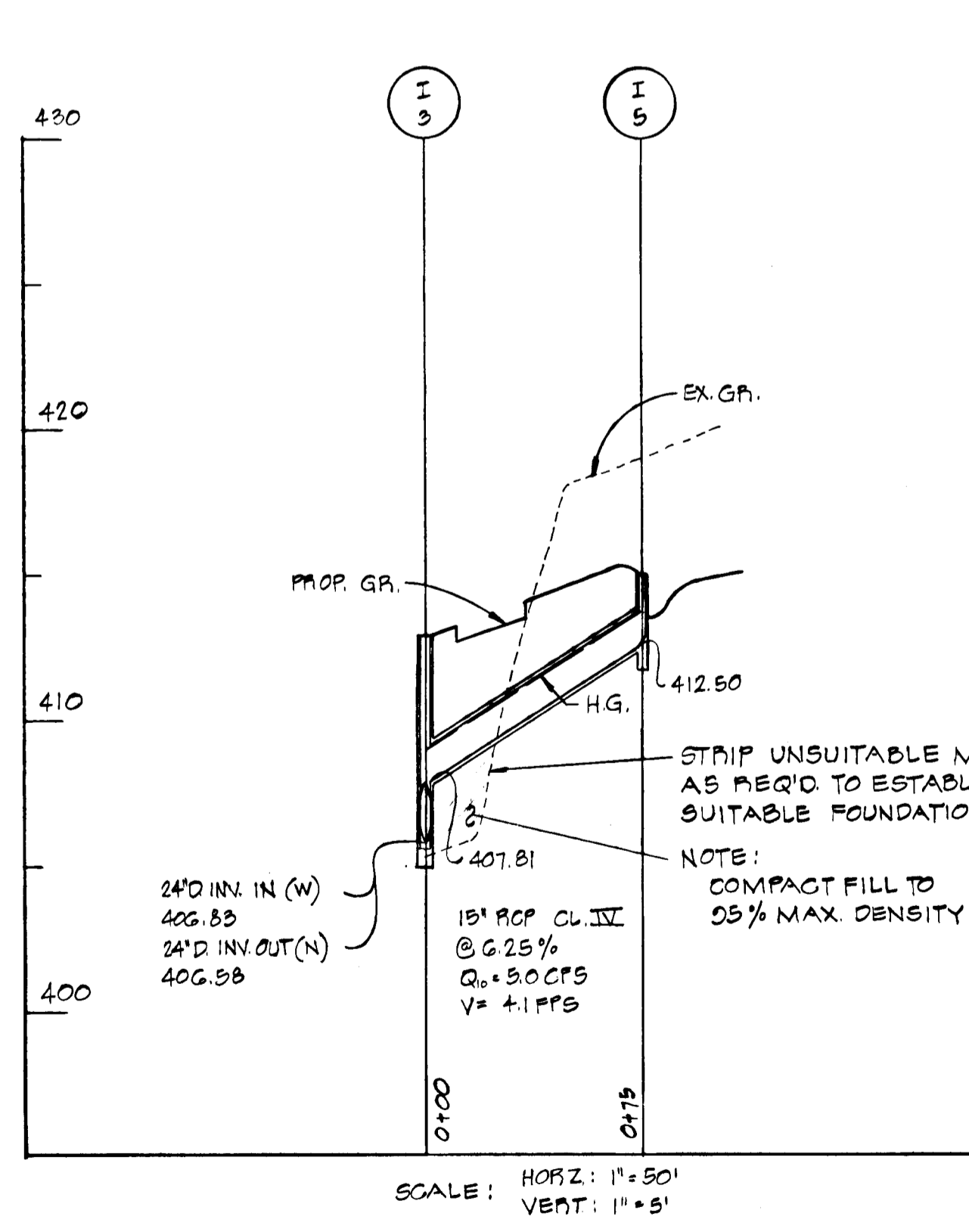
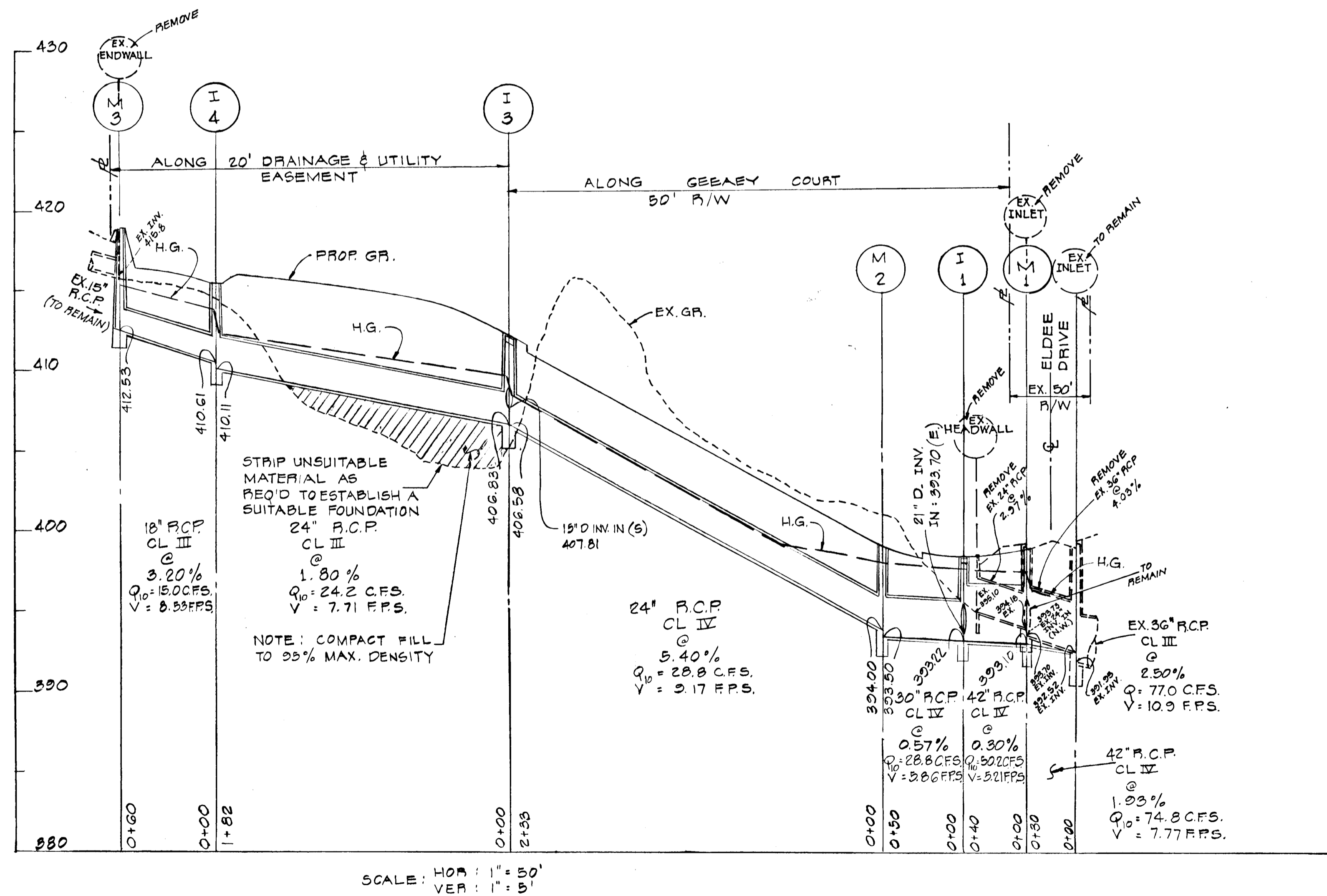
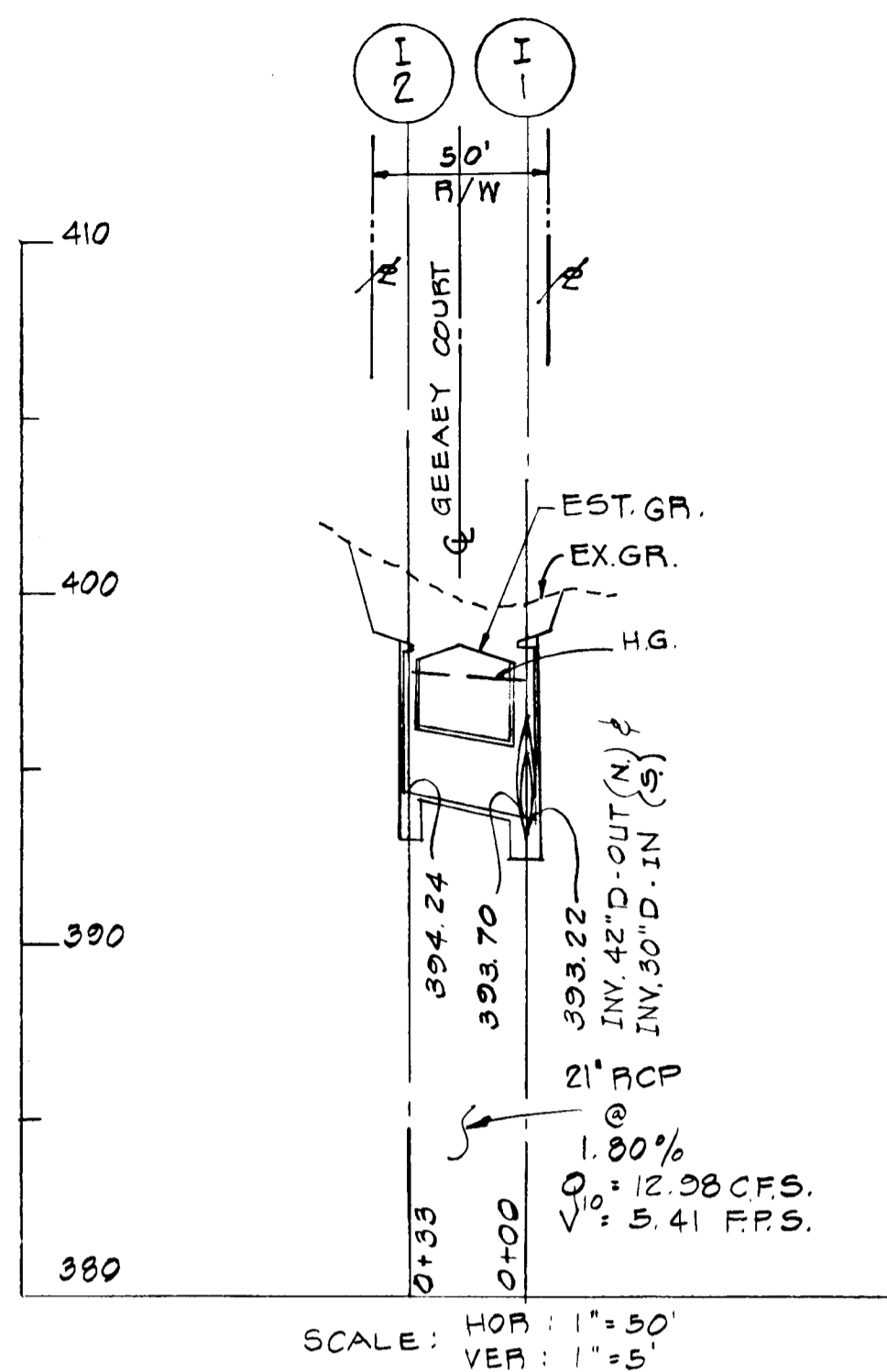
*James Helms R.Z.* 11-6-79  
 U.S. SOIL CONSERVATION SERVICE DATE

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

*Robert W. Ziehm* 11-6-79  
 HOWARD SOIL CONSERVATION DISTRICT DATE

PROPOSED STRUCTURE SCHEDULE

NO.	TYPE	INV. IN	INV. OUT	TOP EL.	REMARKS
M-1	H.O. CO. ST'D STORM DRAIN M.H.	393.73(N/W) 393.10(S)	393.10	398.90	SEE HO. CO. ST'D DETAILS DRWG. D 103, PG. 158
M-2	H.O. CO. ST'D STORM DRAIN M.H.	394.0	393.5	399.95	SEE HO. CO. ST'D DETAILS DRWG. D 103, PG. 158
M-3	H.O. CO. ST'D MODIFIED DROP M.H.	415.8	412.53	418.2	SEE HO. CO. ST'D DETAILS DRWG. D 104, PG. 159
I-1	H.O. CO. ST'D 'A'-10' INLET (DEPRESSED)	393.72(S) 393.70(E)	393.22	398.82 T.C.	SEE HO. CO. ST'D DETAILS DRWG. G 4-A, PG. 119 A
I-2	H.O. CO. ST'D 'A'-10' INLET (DEPRESSED)	-	394.24	398.82 T.C.	SEE HO. CO. ST'D DETAILS DRWG. G 4-A, PG. 119 A
I-3	H.O. CO. ST'D 'A'-5' INLET W/ DEFLECT.	406.83	406.58	412.87 T.C.	SEE HO. CO. ST'D DETAILS DRWG. G 4-A, PG. 119 A
I-4	H.O. CO. ST'D 'A'-5' INLET W/ GRATE	410.61	410.11	415.5	SEE HO. CO. ST'D DETAILS DRWG. D-2B, PG. 150
I-5	H.O. CO. ST'D 'A'-5' INLET	-	412.50	415.00	SEE HO. CO. ST'D DETAILS DRWG. D-2B, PG. 150



*Rodolph Mayhew*  
 9/21/78

OWNER & DEVELOPER  
 RICHARD J. MUELLER  
 9123 OLD ANNAPOLIS ROAD  
 ELLICOTT CITY, MARYLAND 21043

TITLE STORM DRAIN PROFILES & STRUCTURE SCHEDULE			
PROJECT RICHARD J. MUELLER PROPERTY LOTS 1 THRU 5			
LOCATION 2ND ELECTION DISTRICT TAX MAP 24 PART OF PARCEL 583 HOWARD CO., MD.			
DATE 9/25/78	DESIGN BY W.H.N.	DRAWN BY W.H.N.	CHECKED BY P.L.M.
SCALE AS SHOWN	JOB NO. 77254	DRAWING NO. 3 OF 4	

9-25-78	ADDED PROFILE I5 TO I3 & SECTION 'C-C'	10-23-79	CHANGED I3 FROM 'A'-10' TO 'A'-5'
DATE	REVISION	DATE	REVISION

boender associates  
 SUITE 102-107 TOWN & COUNTRY PROFESSIONAL BUILDING  
 ELLICOTT CITY, MARYLAND 21043  
 BALTIMORE 301-468-7777 SALISBURY 301-748-1286

engineers  
 surveyors  
 planners

REVISIONS			
NO.	DATE	DESCRIPTION	BY

### SEDIMENT CONTROL NOTES

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH "STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS" PREPARED BY THE U.S.D.A. SOIL CONSERVATION SERVICE.
- APPLY FOR GRADING PERMIT.
- NOTIFY THE BUREAU OF LICENSE INSPECTIONS AND PERMITS 24 HRS. PRIOR TO GRADING OPERATIONS. PHONE: DD2-2435
- CONSTRUCTION SHALL ADHERE TO THE CONSTRUCTION SEQUENCE.
- CUT AND FILL SLOPES SHALL BE 3:1 MAXIMUM.
- ELEVATIONS MARKED THUS (X) SHALL BE FINISHED GRADE.
- ANY EXCESS MATERIAL SHALL BE STOCKPILED IN A CLEARED LOCATION ON SITE WHICH IS PROTECTED BY SEDIMENT CONTROL STRUCTURE(S). MAXIMUM FILL SLOPE SHALL BE 2:1. STOCKPILED MATERIAL SHALL BE STABILIZED ACCORDING TO SEEDING SPECIFICATIONS BELOW.
- SEDIMENT CONTROL STRUCTURES SHALL BE REMOVED ONLY WITH PERMISSION OF THE BUREAU OF LICENSE, INSPECTIONS AND PERMITS
- STABILIZATION MEASURES
- TEMPORARY STABILIZATION:  
APPLY: 2000 LBS./AC. OR 46 LBS. OF PULVERIZED DOLOMIC LIMESTONE, 500 LBS./AC. OR 11.5 LBS./1000 SQ. FT. OF 10-10-10 FERTILIZER, PLANT WITH RYEGRASS AT 40 LBS./AC. MULCH ALL DISTURBED AREAS IMMEDIATELY AFTER GRADING.
- PERMANENT STABILIZATION:  
APPLY: 2000 LBS./AC. OF PULVERIZED DOLOMIC LIMESTONE, 500 LBS./AC. OF 10-10-10 FERTILIZER.  
SEED: 85 LBS./AC. OF KENTUCKY 31 TALL FESCUE, 40 LBS./AC. OF KENTUCKY BLUE GRASS, 25 LBS./AC. OF ANNUAL RYEGRASS.  
NOTE: SEEDING MAY BE DONE BETWEEN MARCH 1 - MAY 1, OR AUG. 1 - OCT. 1 ONLY.  
MULCH: 2 TONS/AC. OF UNWEATHERED WHEATSTRAW. TIE MULCH DOWN WITH 400 GAL./AC. OF LIQUID ASPHALT.  
10. ON ALL FILL SLOPES GREATER THAN 3:1 SUBSTITUTE THE FOLLOWING MIX FOR THE ABOVE:  
APPLY: 15 LBS./AC. OF INOCULATED CROWN VETCH  
40 LBS./AC. OF KENTUCKY 31 TALL FESCUE

**DEVELOPER'S CERTIFICATE**

I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND I ALSO AUTHORIZE PERIODIC INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OF THEIR AUTHORIZED AGENTS AS AND WHEN NECESSARY. DEVIATION FROM THIS PLAN WILL NOT BE MADE UNLESS AUTHORIZED BY THE HOWARD SOIL CONSERVATION DISTRICT.

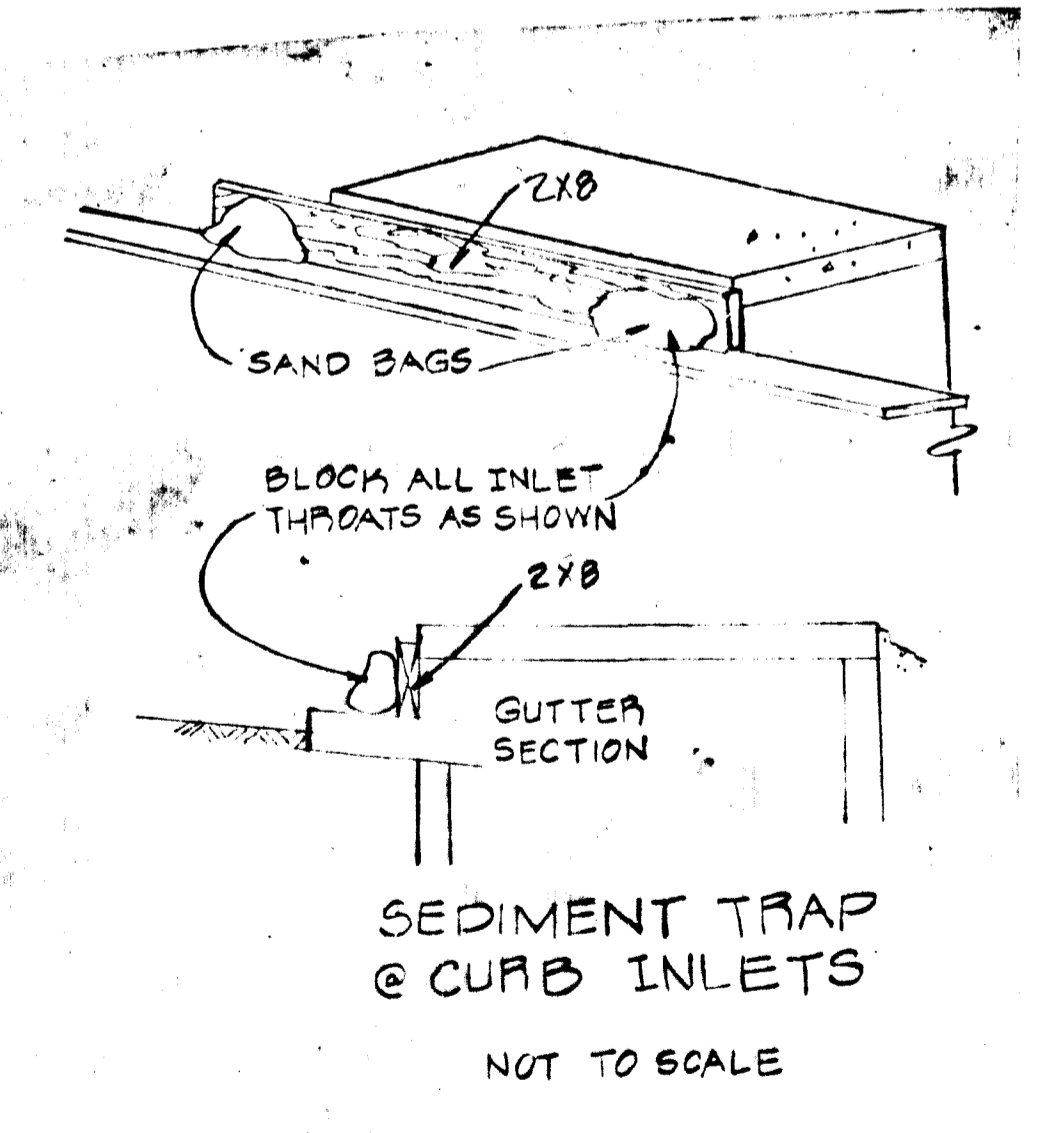
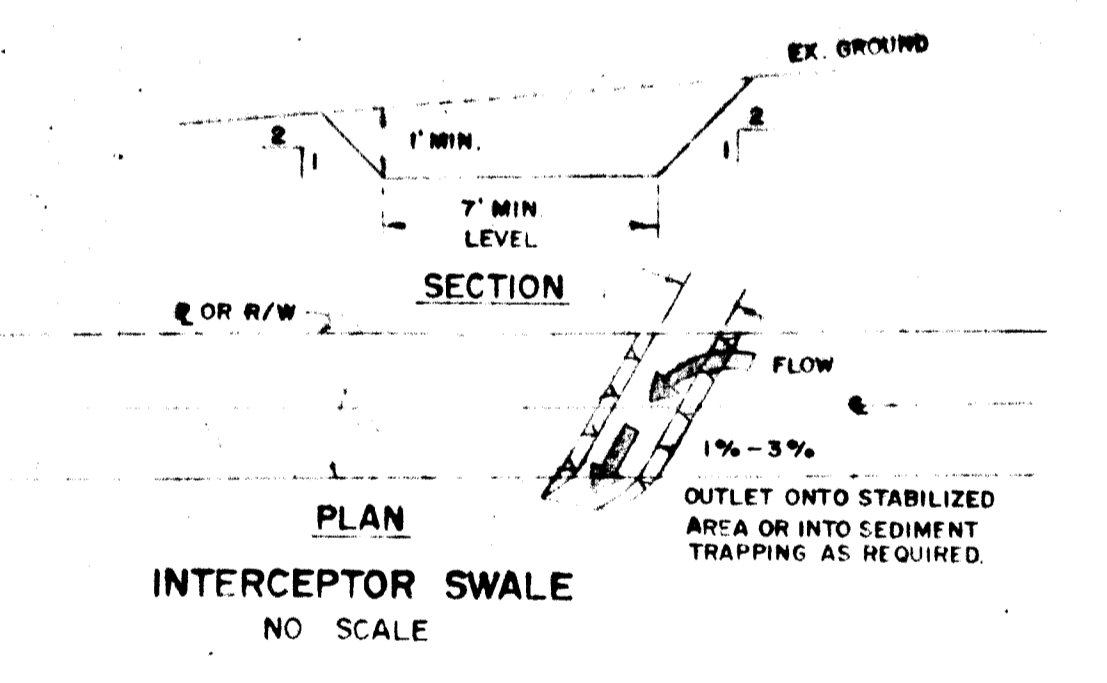
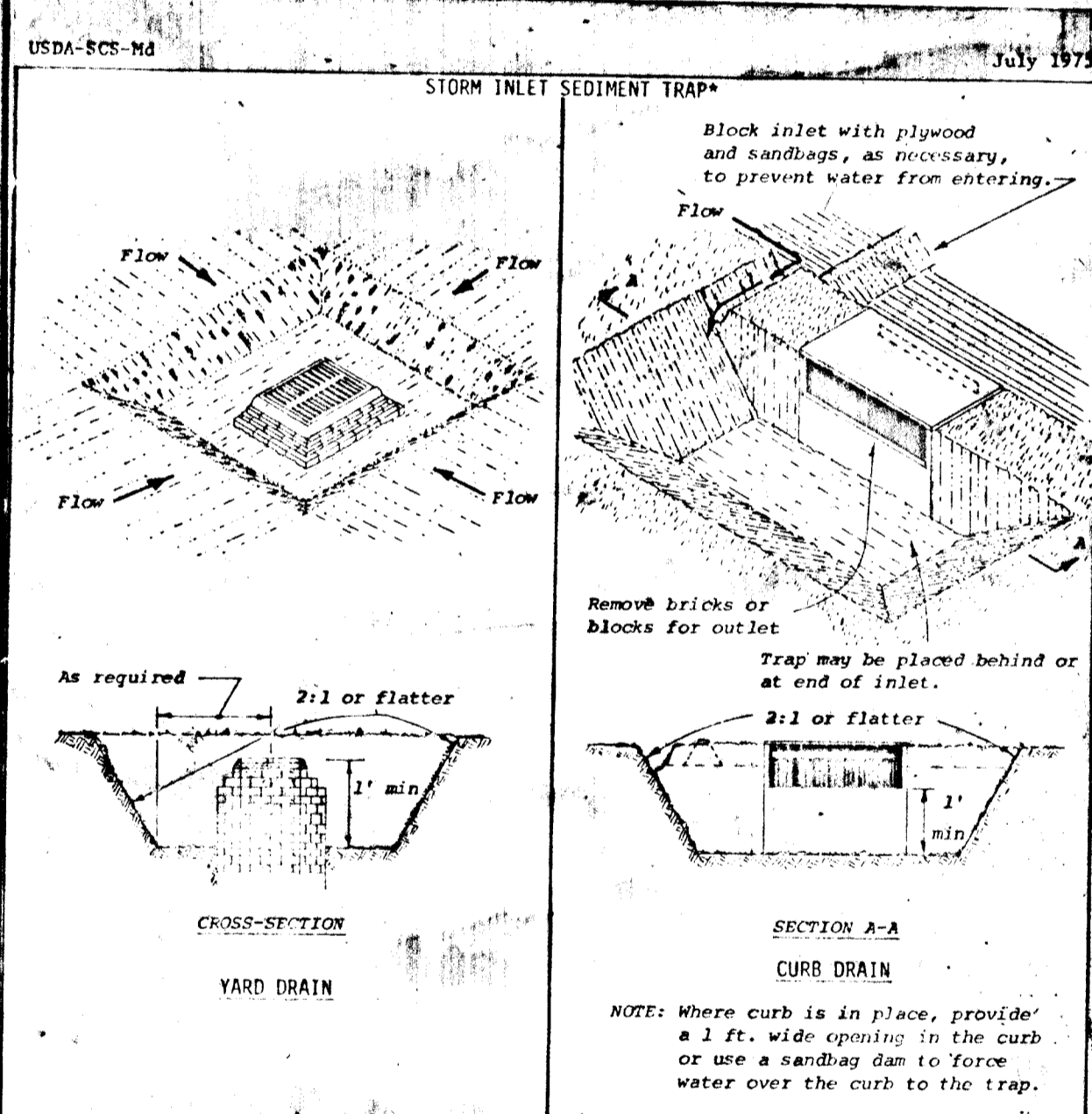
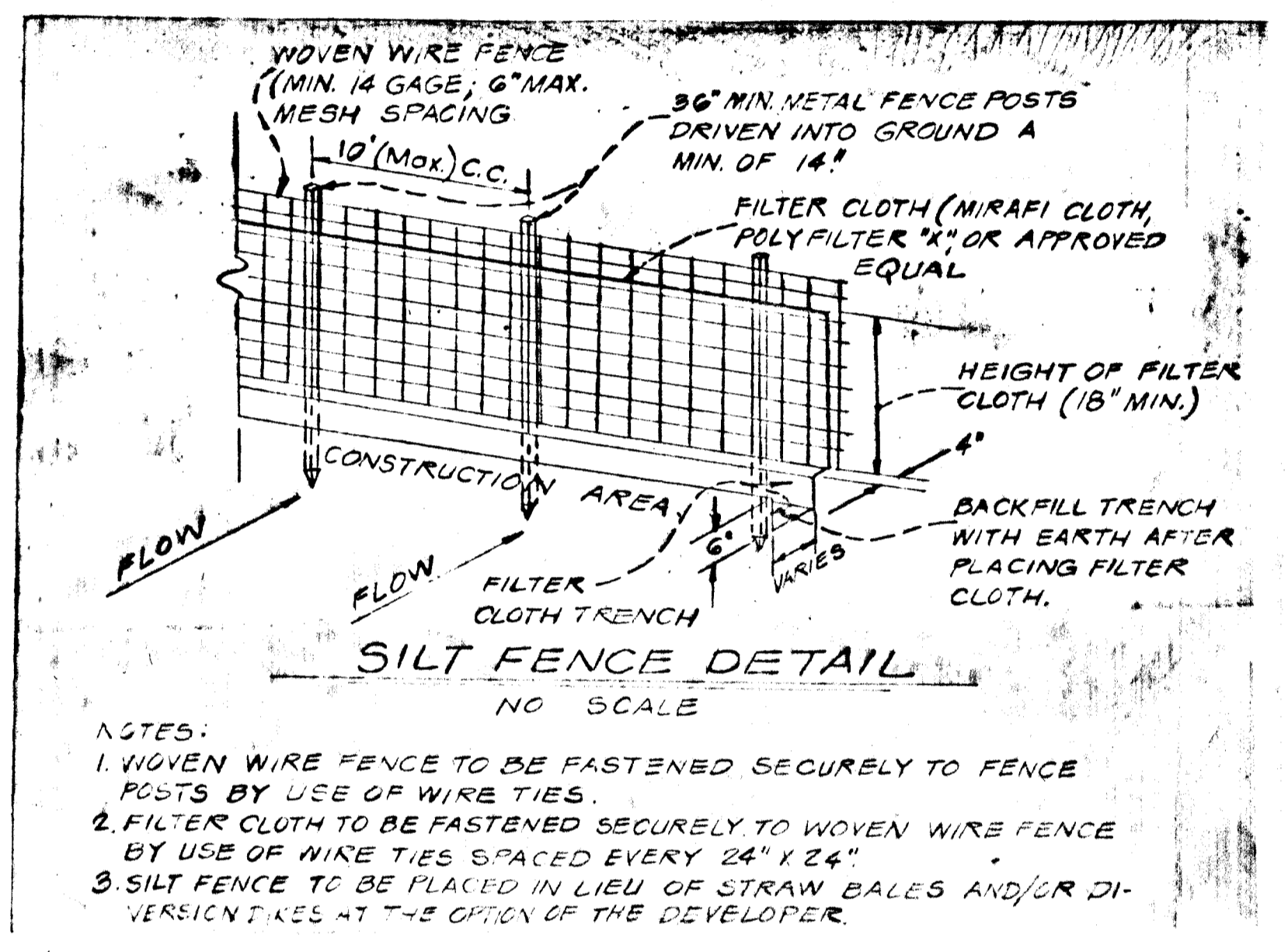
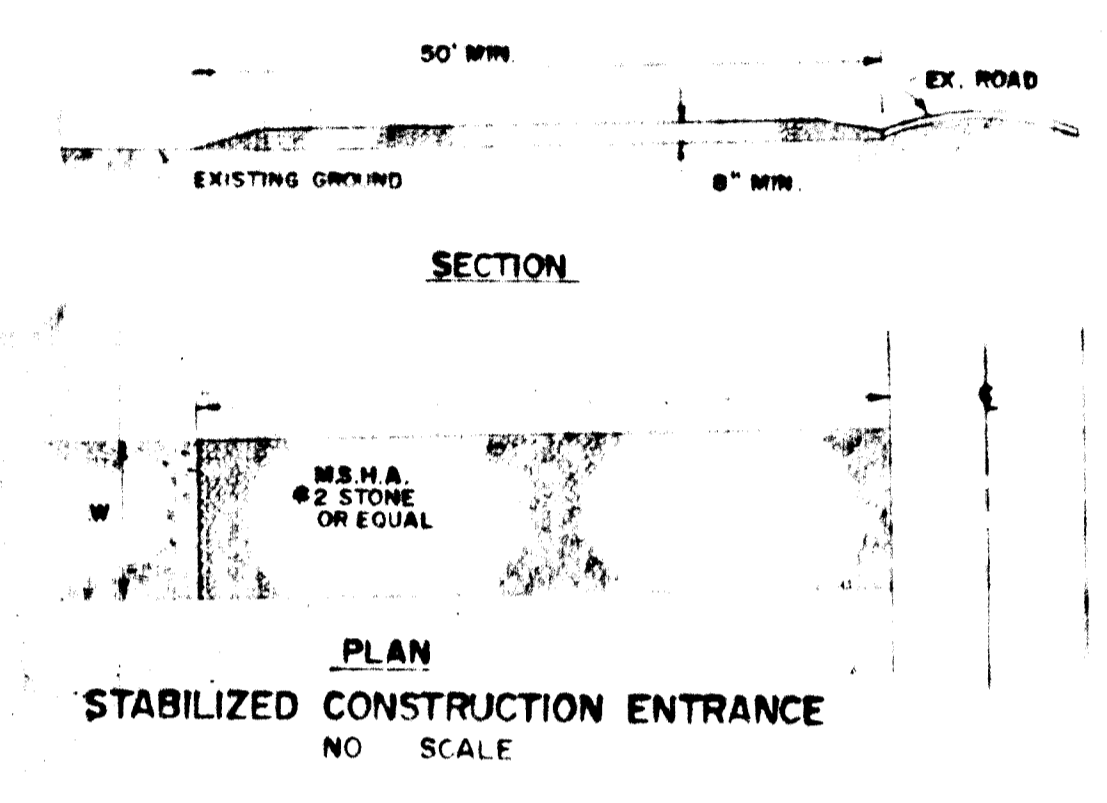
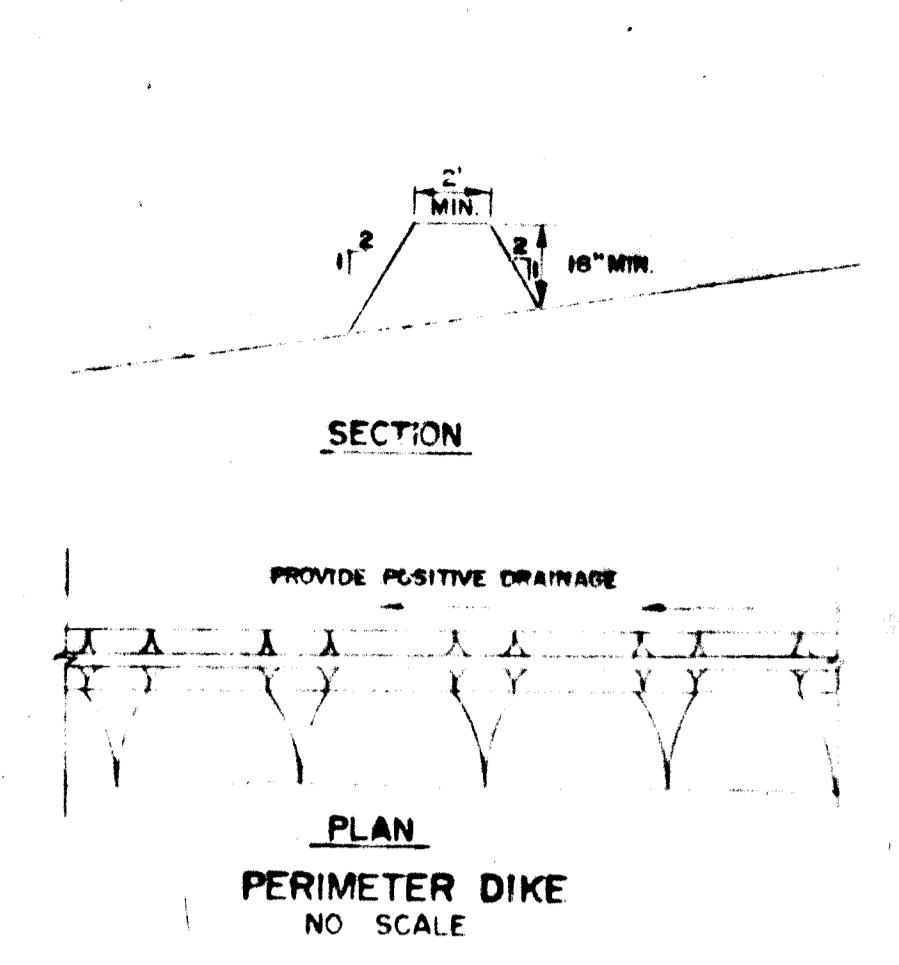
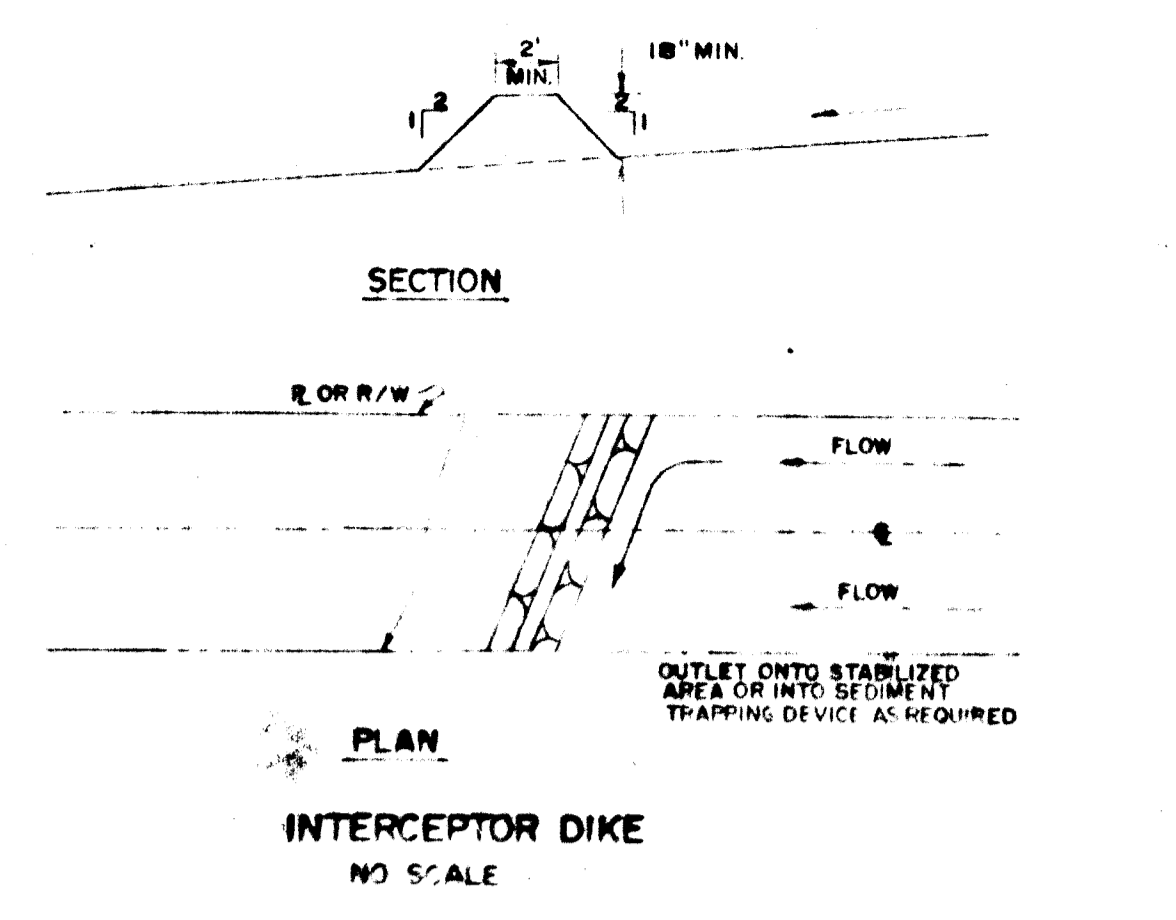
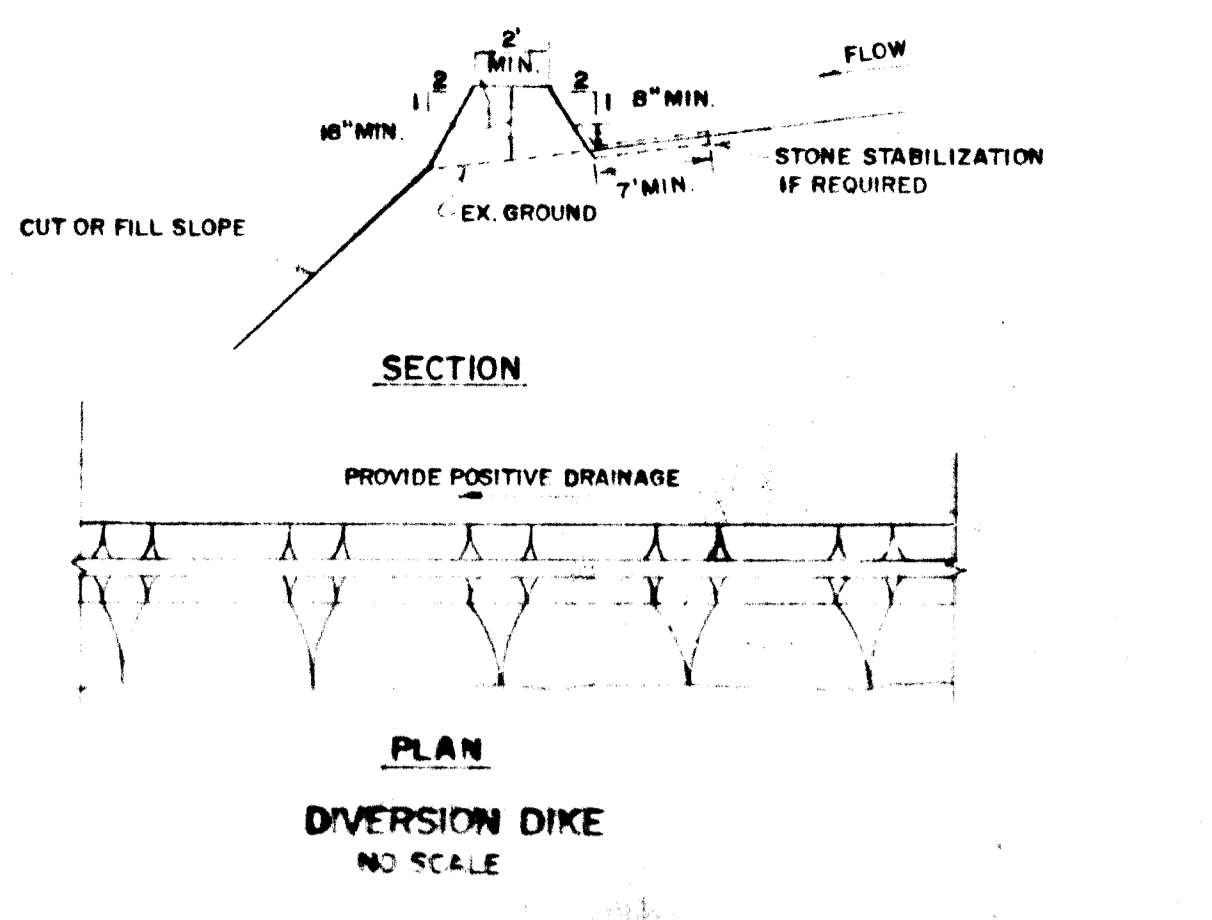
*Richard J. Mueller*      2/18/79  
DATE

---

**ENGINEER'S CERTIFICATE**

I CERTIFY THAT THE DESIGN AND CONSTRUCTION OF THE EROSION AND SEDIMENT CONTROL STRUCTURES AND PRACTICES AND THE INSTALLATION AND MAINTENANCE OF THE SAME SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

*Ralph May Jr.*      9-26-78  
DATE



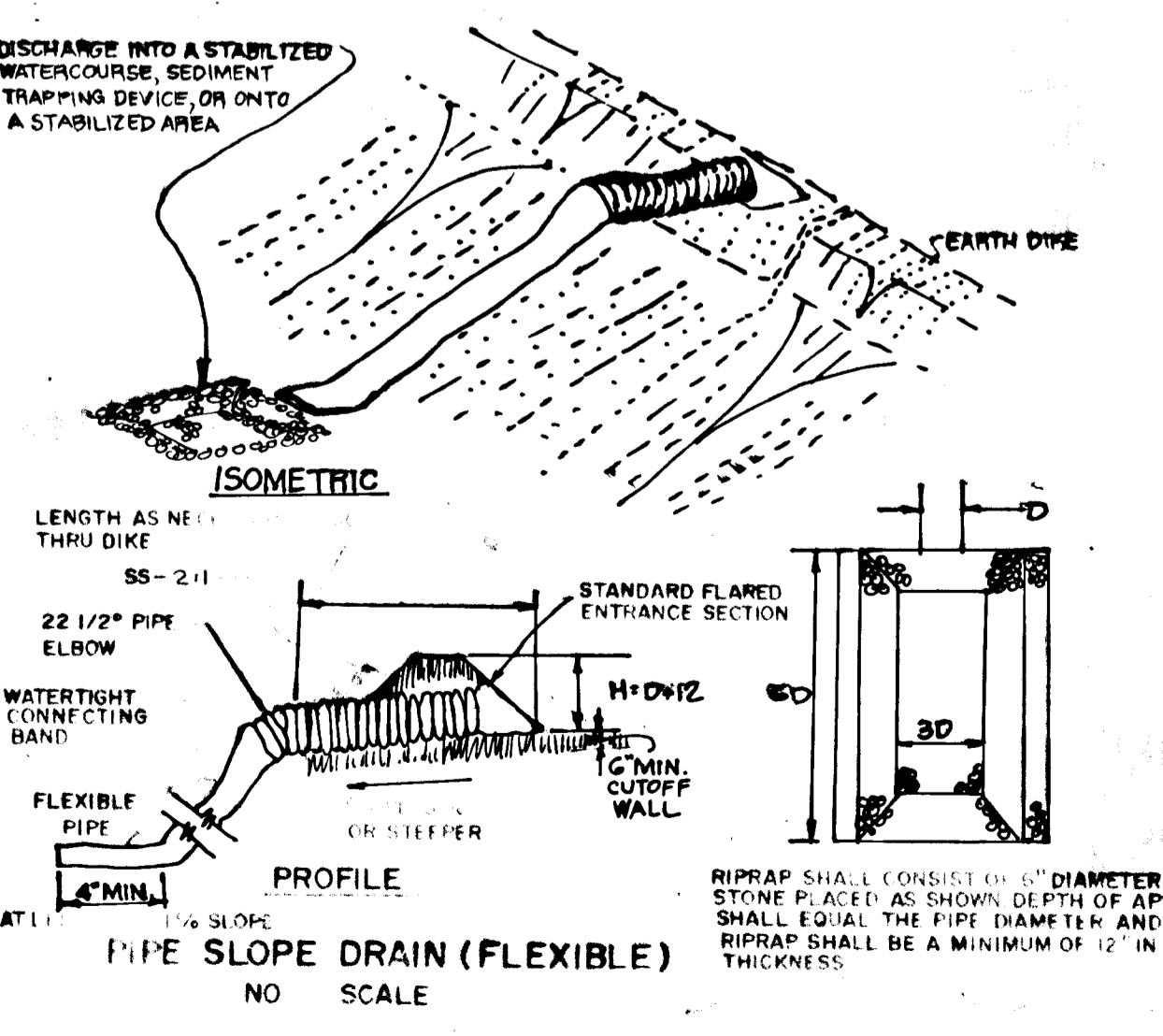
**CONSTRUCTION SPECIFICATIONS**

- Sediment shall be removed and trap restored to its original dimensions when the sediment has accumulated to 1/2 the design depth of the trap. Removed sediment shall be deposited in a suitable area and in such a manner that it will not erode.
- The structure shall be inspected after each rain and repairs made as needed.
- Construction operations shall be carried out in such a manner that erosion and water pollution shall be minimized.
- The sediment trap shall be removed and area stabilized when the remaining drainage area has been properly stabilized.
- All cut and fill slopes shall be 2:1 or flatter.

\*Drainage area less than 5 acres.

U. S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE  
College Park, Md.

STORM INLET SEDIMENT TRAP  
Standard Drawing  
ST-4



**STANDARD SYMBOLS**

DD	2'
ID	2'
PD	2'
SBD	2'
IS	2'
PS	2'
SCE	2'
SOS	2'
LS	2'
GSS-1	A-
GSS-2	PSD
GSS-3	PSD
GW	

NOTES:  
1. ARROWS POINT DOWNSLOPE OR TO THE OUTLET.  
2. DIKE AND DIVERSION SYMBOLS SHALL HAVE A CROSS MARK TO CLEARLY SHOW WHERE THE STRUCTURE BEGINS AND ENDS.

**REVIEWED FOR HOWARD S.C.D. AND MEETS TECHNICAL REQUIREMENTS.**

*James Helms*      11-6-79  
SOIL CONSERVATION SERVICE      DATE

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

*Richard J. Mueller*      11-6-79  
HOWARD SOIL CONSERVATION DISTRICT      DATE

**APPROVED DEPARTMENT OF PUBLIC WORKS**

*Allen S. Brown*      11/6/79  
CHIEF, BUREAU OF ENGINEERING      DATE

**APPROVED OFFICE OF PLANNING AND ZONING**

*William M. ...*      11-6-79  
CHIEF, DIVISION OF LAND DEVELOPMENT      DATE

<b>SEDIMENT CONTROL DETAILS</b>			
PROJECT	RICHARD J. MUELLER PROPERTY		
LOCATION	LOTS 1 THRU 5		
DATE	SEPT. 26, 78	DRAWN BY	W.N.
SCALE	AS SHOWN	CHECKED BY	R.L.M.
TITLE	77254	DATE	4 OF 4

ENGINEERING PLANNING SURVEYING BY  
**BOENDER ASSOCIATES INC.**  
BALTIMORE, MD. 488-7777  
WESTMINSTER, MD. 848-5888

#799