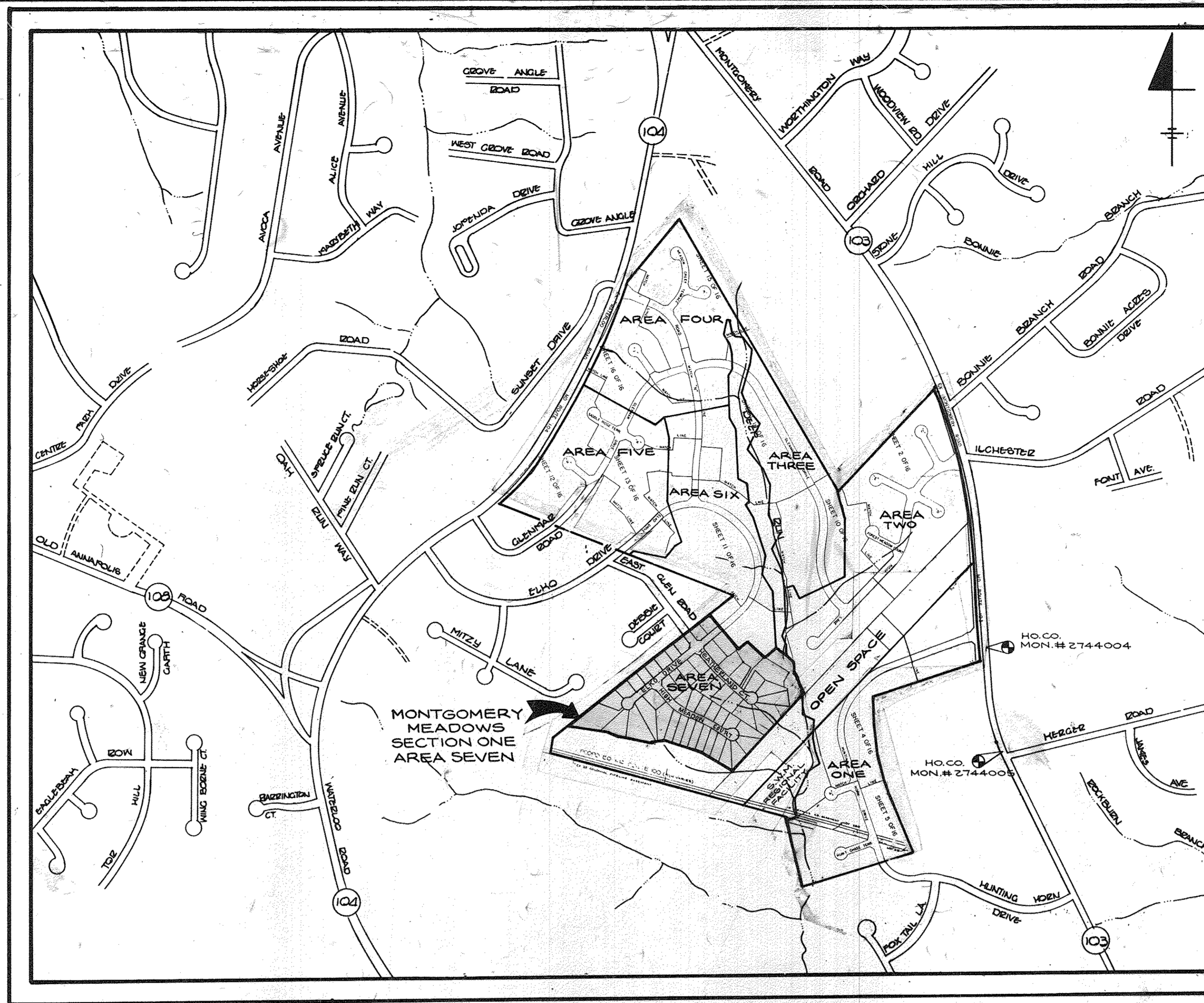
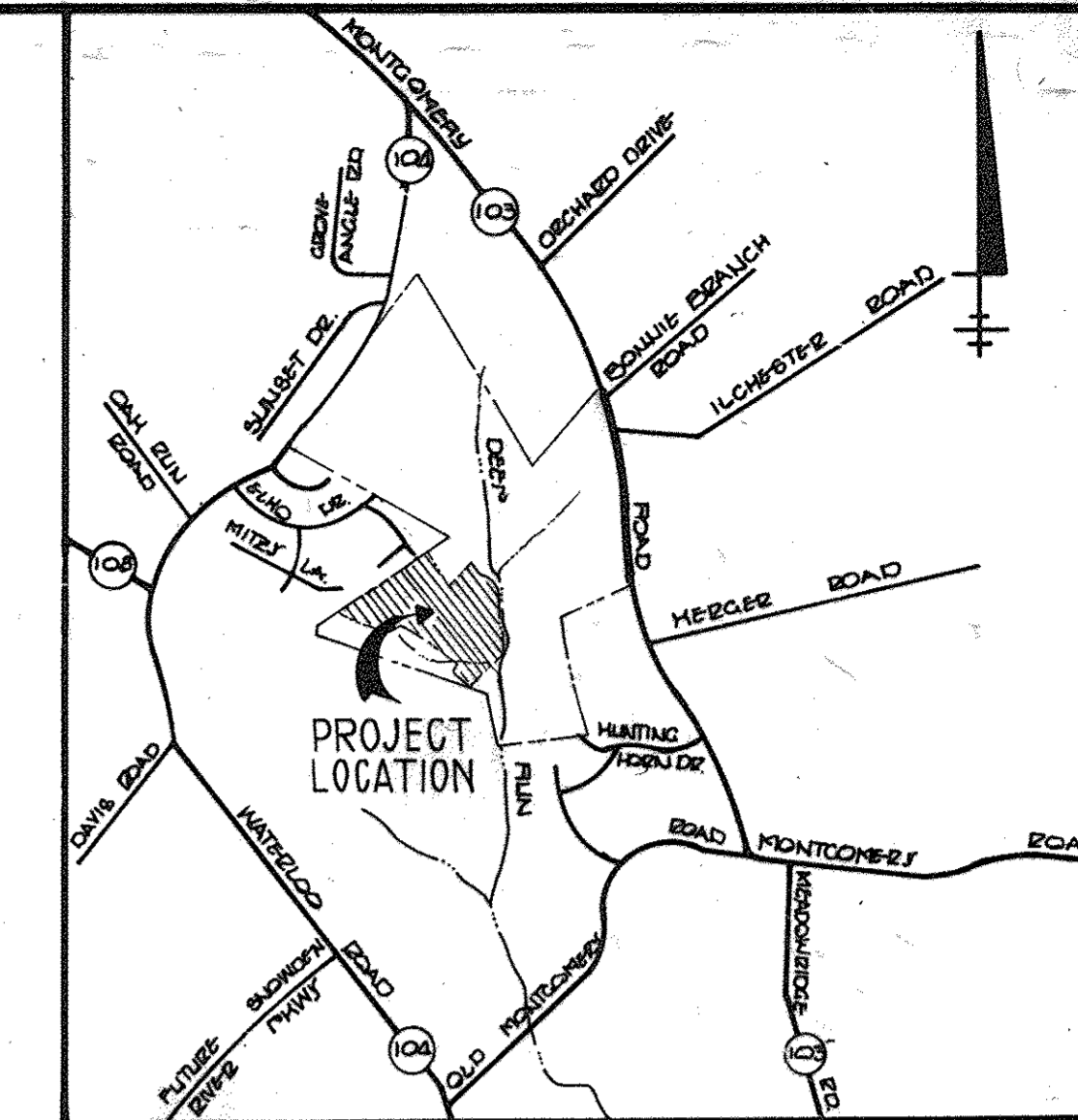


INDEX OF SHEETS	
SHEET NO.	TITLE
1	TITLE SHEET
2	PLAN & PROFILE - EL KO DRIVE
3	PLAN & PROFILE - COURT / EASTGLEN ROAD
4	PLAN & PROFILE - HIGH MEADOW COURT
5	STORM DRAIN PROFILES
6	ROAD SECTIONS, DETAILS, NOTES, STORM STRUCTURE SCHED.
7	GRADING & SEDIMENT CONTROL PLAN / DRAINAGE AREA MAP
8	GRADING & SEDIMENT CONTROL PLAN / DRAINAGE AREA MAP
9	SEDIMENT CONTROL NOTES AND DETAILS
10	SEDIMENT CONTROL DETAILS
11	OFF-SITE DRAINAGE AREA MAP (EXISTING CONDITION)
12	OFF-SITE DRAINAGE AREA MAP (PROPOSED CONDITION)



LOCATION MAP

SCALE: 1" = 600'



VICINITY MAP

SCALE: 1" = 2000'

GENERAL NOTES

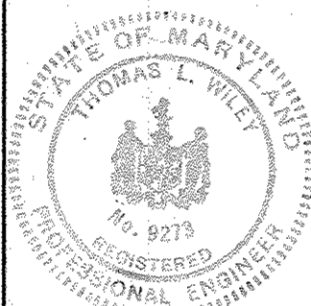
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH HOWARD COUNTY STANDARDS, SPECIFICATIONS AND DETAILS FOR CONSTRUCTION.
- ALL UTILITY COMPANIES MUST BE NOTIFIED 24 HRS IN ADVANCE OF ANY CONSTRUCTION.
- STORM DRAINAGE TRENCHES WITHIN ROAD RIGHT-OF-WAYS SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH HOWARD COUNTY ROAD CODE.
- ANY DAMAGE TO PUBLIC RIGHT-OF-WAYS PAVING, OR EXISTING UTILITIES WILL BE CORRECTED AT THE CONTRACTORS EXPENSE.
- CONTRACTOR TO NOTIFY THE HOWARD COUNTY INSPECTION AND SURVEY DIVISION AT LEAST 3 DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS. TELEPHONE: 792-7272.
- APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN FOR THE CONTRACTOR'S INFORMATION, CONTRACTOR SHALL LOCATE EXISTING UTILITIES WELL IN ADVANCE OF CONSTRUCTION ACTIVITIES AND TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND TO MAINTAIN UNINTERRUPTED SERVICE.
- ALL TRAFFIC CONTROL DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, 1984 REVISED EDITION.
- STREET TREES TO BE PROVIDED AS REQUIRED BY SECTION 16.131 OF THE HOWARD COUNTY SUBDIVISION AND LAND DEVELOPMENT REGULATIONS. SEE DRAINAGE AREA, LANDSCAPING, AND GRADING & SEDIMENT CONTROL PLANS SHEETS 7, 8 AND 9 OF 9.
- PERMANENT STORMWATER MANAGEMENT FACILITIES FOR THIS PROJECT WILL BE CONSTRUCTED UNDER F-89-44 AND IS PREFERRED.

# MONTGOMERY MEADOWS SECTION ONE, AREA SEVEN ROAD CONSTRUCTION DRAWINGS 1ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND

PLAN REVISION NOTE: ON OR AROUND 4/10/2017 CAPITAL PROJECT D-1157, TITLED HEATHERLAND STREAM RESTORATION PROJECT, WAS CREATED TO RESTORE AN IMPAIRED SECTION OF STREAM CHANNEL, LOCATED APPROXIMATELY BETWEEN 8249 ELKO DRIVE AND 8205 HUNTING HORN DRIVE, ELLICOTT CITY, MD ILLUSTRATED WITHIN THE LIMITS OF THIS PLAN. AN ALTERNATIVE COMPLIANCE WAS PROCESSED THROUGH THE DEPARTMENT OF PLANNING AND ZONING UNDER WP-17-075, APPROVED ON 4/6/2017, TO WAIVER SECTIONS 16.155(A)(1)(a) AND 16.1201(a) OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS SUBJECT TO 7 CONDITIONS OF APPROVAL, FOR THE DETAILED CONDITIONS OF APPROVAL AND THE CURRENT SITE CONDITIONS WITHIN THE DISTURBED AREA PLEASE SEE THE CAPITAL PROJECT PLANS.

"I certify that this plan for ~~erosion and sediment control~~ erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions. This plan was prepared in accordance with the requirements of the Howard Soil Conservation District.

*[Signature]* 7-26-89



DEVELOPER'S CERTIFICATE

"I/We certify that all development and/or construction will be done according to these plans, and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of Natural Resources Approved Training Program for the Control of Sediment and Erosion before beginning the project.

I also authorize periodic on-site inspections by the Howard Soil Conservation District.

*[Signature]* 7/27/89

These plans have been reviewed for the Howard Soil Conservation District and meet the technical requirements for ~~erosion and sediment control~~ erosion and sediment control.

*[Signature]* 8/3/89

These plans for ~~erosion and sediment control~~ soil erosion and sediment control meet the requirements of the Howard Soil Conservation District.

*[Signature]* 8/4/89

APPROVED: HOWARD COUNTY DEPT. OF PLANNING AND ZONING,

*[Signature]* 7/2/89

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

*[Signature]* 8/10/89

*[Signature]* 8-9-89

*[Signature]* 8-11-89

REVISIONS		
DATE	BY	DESCRIPTION
5-6-88	M.BRIDDELL	DATE
6/28	MRC	DELETE REFERENCE TO SMALL POND AND PERM PERMANENT STORMWATER MANAGEMENT
4/10/2017	HMD	REFERENCE NOTE TO CAP. PROJ. D-1157

**Dewberry & Davis**  
ENGINEERS — ARCHITECTS — PLANNERS — SURVEYORS  
3300 N. RIDGE ROAD  
SUITE 100  
ELLICOTT CITY, MD. 21043  
(301) 461-7478



**OWNER / DEVELOPER**  
MONTGOMERY MEADOWS GENERAL PARTNERSHIP  
9175 GUILFORD ROAD, SUITE 302  
COLUMBIA, MARYLAND 21046  
(301) 604-1552

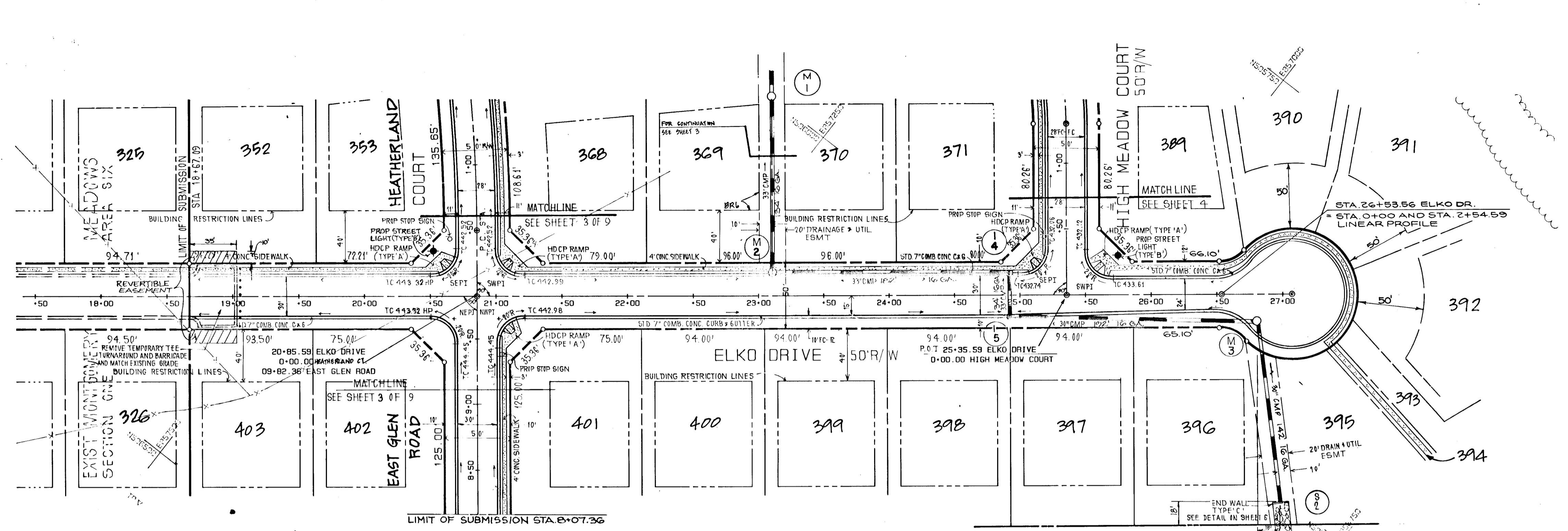
**TITLE SHEET**  
**MONTGOMERY MEADOWS**  
SECTION ONE, AREA SEVEN  
LOTS 352 THRU LOTS 406  
TAX MAP 31 PARCEL 423  
1st. ELECTION DISTRICT HOWARD CO., MARYLAND  
SCALE: AS SHOWN CONTRACT NO. FILE NO. SHEET 1 of 12

F-89-47

1443

DATE: \_\_\_\_\_  
 BY: \_\_\_\_\_  
 PLAN SURVEYED, PLOTTED, NOTE BOOK, ALIGNMENT CHECKED, FT. OF WAY CHECKED, No. \_\_\_\_\_

APPROVED: HOWARD COUNTY DEPT. OF PLANNING AND ZONING  
*Mark S. Leavelle* 7/19/89  
 HELLER SCHOOL OF COMMUNITY PLANNING AND LAND DEVELOPMENT  
 APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
*Franklin J. Sporn* 8/10/89  
*Charles Stankovitch for GSW* 8-9-89  
*K. R. R. & R. R.* 8-11-89



- NOTES**
- 1 FOR STORM DRAIN PROFILES SEE SHEET 5 OF 9
  - 2 FOR GRADING PLAN SEE SHEETS 7 AND 8 OF 9
  - 3 STRUCTURE S-2 COVERED BY EXISTING STORMWATER BASEMENT UNDER GLENMAR DEVELOPMENT.

**MONTGOMERY MEADOWS**  
 SECTION ONE AREA SEVEN  
 LOTS 382 THRU 400  
 1ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
**PLAN AND PROFILE**  
**ELKO DRIVE**  
 STA. 18+67.09 TO 27+15.81  
 OWNER / DEVELOPER  
 MONTGOMERY MEADOWS GENERAL PARTNERSHIP  
 9175 GUILFORD ROAD, SUITE 302  
 COLUMBIA, MARYLAND 21046  
 (301) 604-1552  
 DEWFREY & DAVIS  
 ARCHITECTS PLANNERS SURVEYORS  
 3300 NORTH RIDGE ROAD  
 ELLICOTT CITY, MARYLAND 20834  
 (301) 461-7478

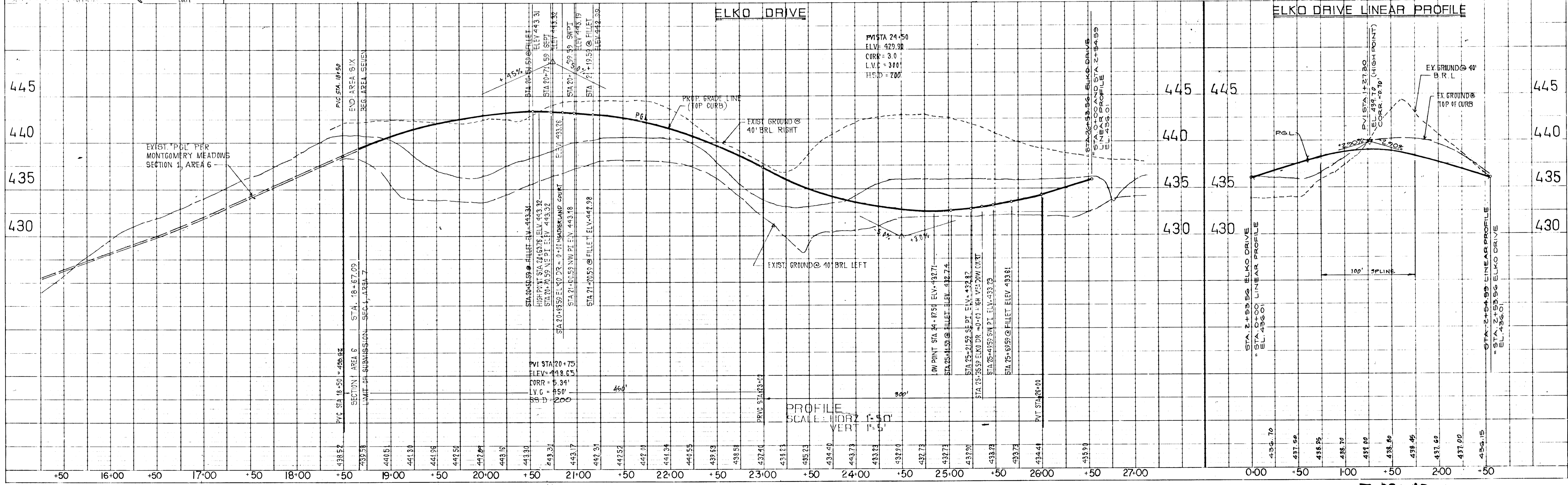
PLAN  
 1" = 50'



**BENCHMARKS**  
 HOWARD CO. MON # 2744004-ELEV. 415.967  
 3/4" REBAR 0.8' BELOW SURFACE, 7' WEST OF MD ROUTE 103 AND 1400' SOUTH OF INTERSECTION OF ILCHESTER ROAD.  
 HOWARD CO. MON # 2744005-ELEV. 419.625  
 3/4" REBAR 0.6' BELOW SURFACE, 10' WEST OF EDGE OF MD ROUTE 103 AND 80' NORTH OF E. OF KERGER ROAD

**LIGHTING LEGEND**  
 \* TYPE 'A' - 150 WATT HIGH PRESSURE SODIUM VAPOR LAMP MOUNTED ON A 25' HIGH GALVANIZED STEEL POLE  
 \* TYPE 'B' - 100 WATT HIGH PRESSURE SODIUM VAPOR POST TOP MOUNTED ON A 14' HIGH FIBERGLASS BRONZE POLE

DATE: \_\_\_\_\_  
 BY: \_\_\_\_\_  
 PROFILE SURVEYED, PLOTTED, NOTE BOOK, GRADES CHECKED, S.M. NOTES, STRUCTURE NOTATIONS CHECKED, No. \_\_\_\_\_



1443

NOTE:  
 1. FOR STORM DRAIN PROFILES - SEE SHEET 5 OF 9.  
 2. FOR GRADING PLAN - SEE SHEET 7 OF 9.



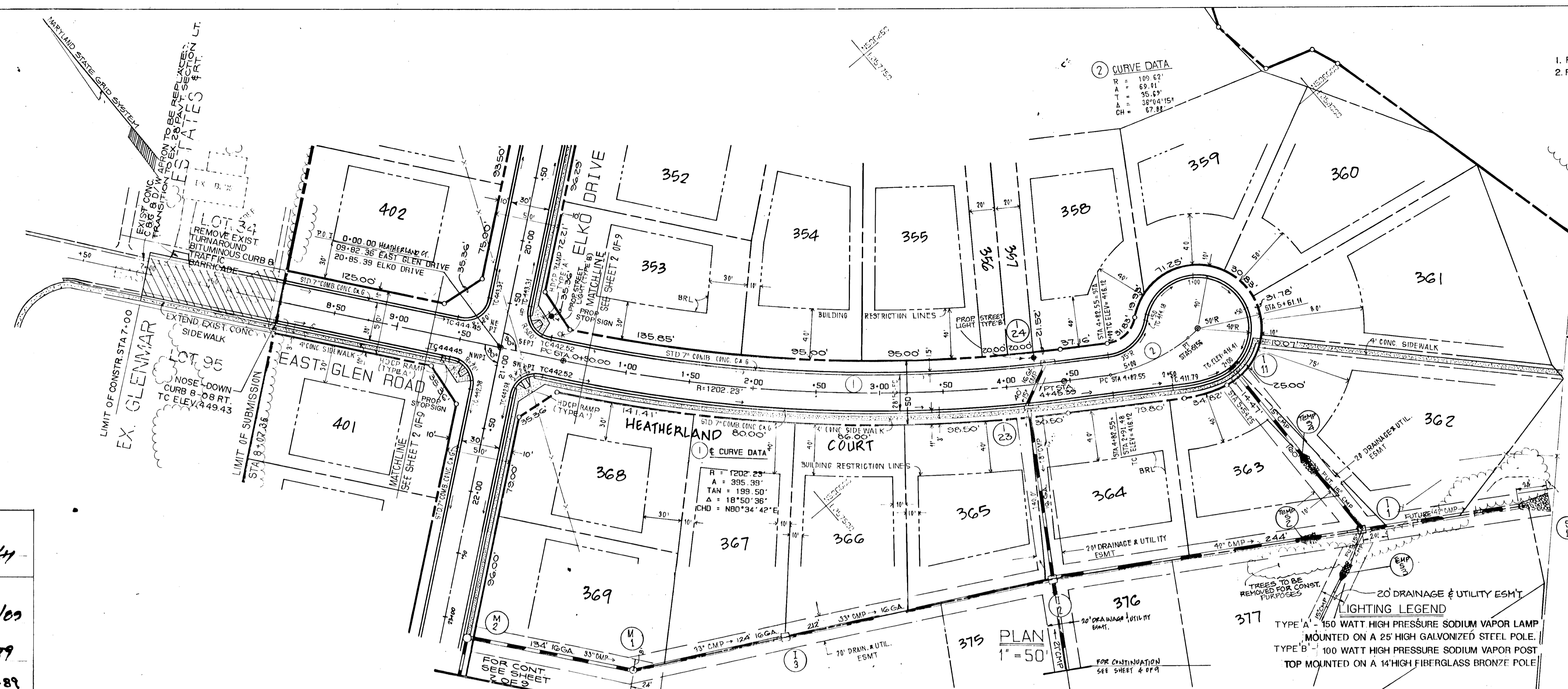
**MONTGOMERY MEADOWS**  
 SECTION ONE AREA SEVEN  
 LOTS 352 THRU LOT 406  
 1ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND

**PLAN AND PROFILE  
 HEATHERLAND COURT**  
 STA. 0+00 TO STA. 4+82.55

OWNER / DEVELOPER  
 MONTGOMERY MEADOWS GENERAL PARTNERSHIP  
 9175 GUILFORD ROAD, SUITE 302  
 COLUMBIA, MARYLAND 21046  
 (301) 604-1552

SCALE AS SHOWN DATE 5-6-1988 SHEET 3 OF 12  
 DESIGNED BY MDB DRAWN BY MING CHECKED BY BRIDDELL

DEWBERRY & DAVIS  
 ARCHITECTS PLANNERS SURVEYORS  
 3300 NORTH RIDGE ROAD  
 ELLICOTT CITY, MARYLAND 21043  
 (301) 461-7478



APPROVED: HOWARD COUNTY DEPT. OF PLANNING AND ZONING

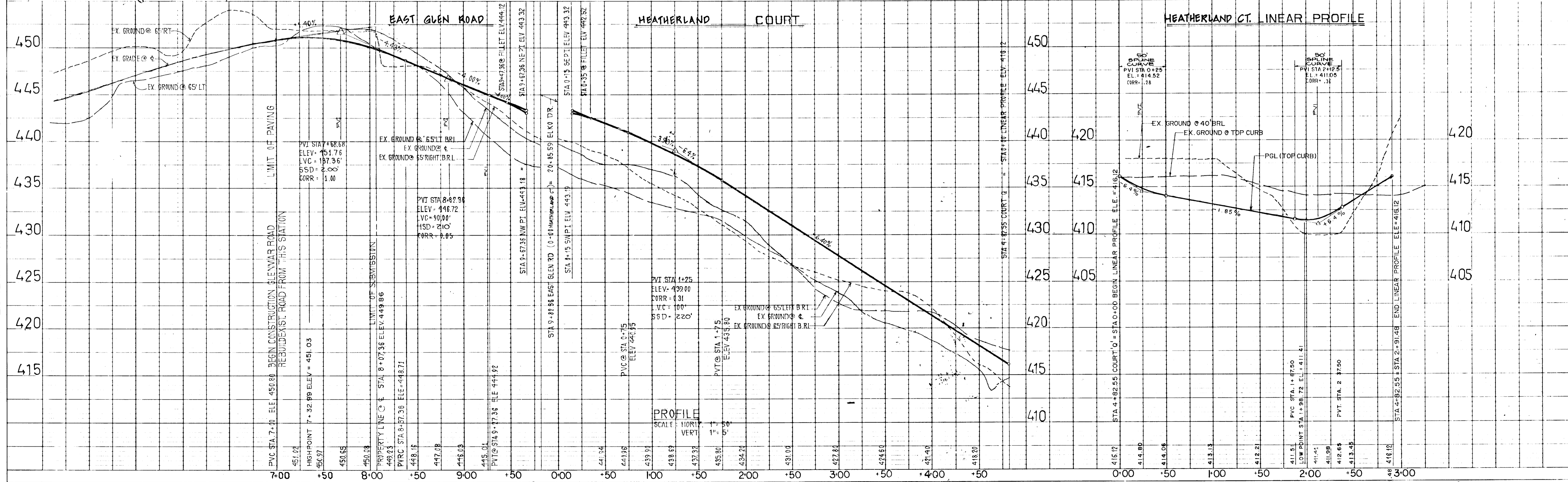
*Rand J. S. Vogel* 5/15/89  
 COMMUNITY PLANNING  
 LAND DEVELOPMENT

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

*Frank J. Segan* 8/10/89  
 DATE

*Charles H. Sander* 8-9-89  
 DATE

*William S. Riley* 8-11-89  
 DATE



PLAN  
 SURVEYED  
 NOTE BOOK ALIGNMENT CHECKED  
 NO. BY DATE

PROFILE  
 SURVEYED  
 NOTE BOOK GRADES CHECKED  
 B.M.'S NOTED  
 NO. BY DATE

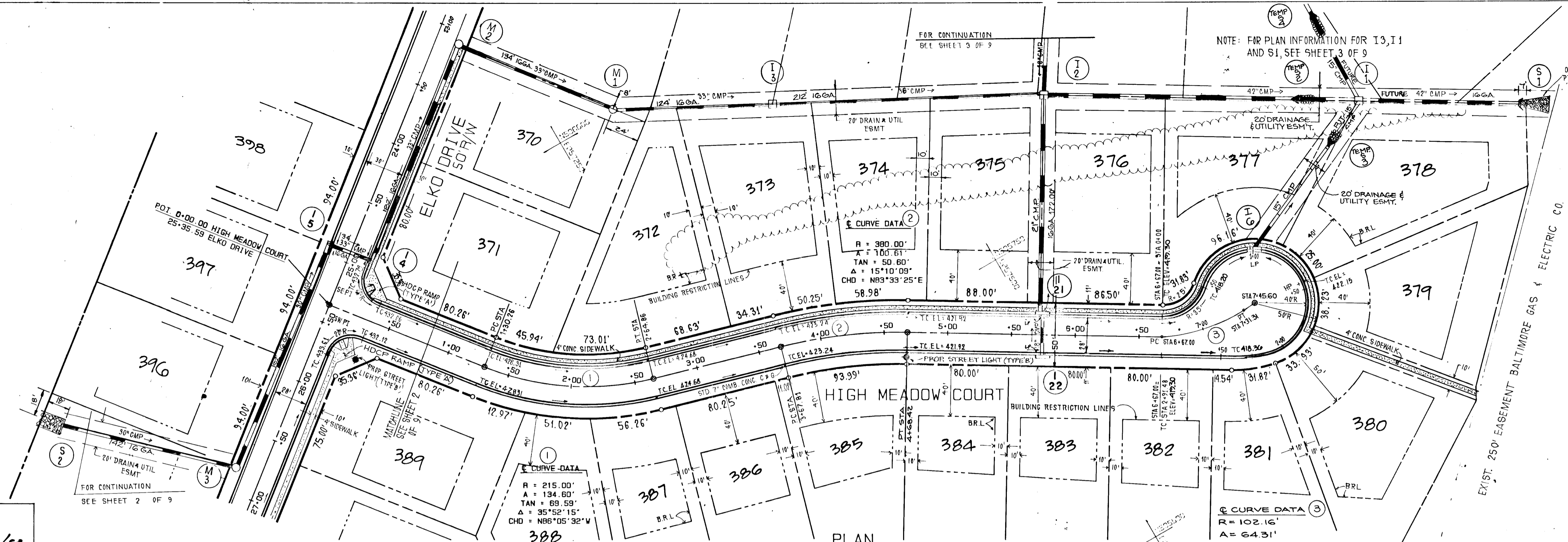
1443

F-89-47

PLAN SURVEYED BY DATE  
 NOTE BOOK NO. OF WAY CHECKED

APPROVED: HOWARD COUNTY DEPT. OF PLANNING AND ZONING  
*Frank V. ...* 7/10/89  
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
*Donald ...* 8/10/89  
*Charles ...* 8-9-89  
*William ...* 8-11-89

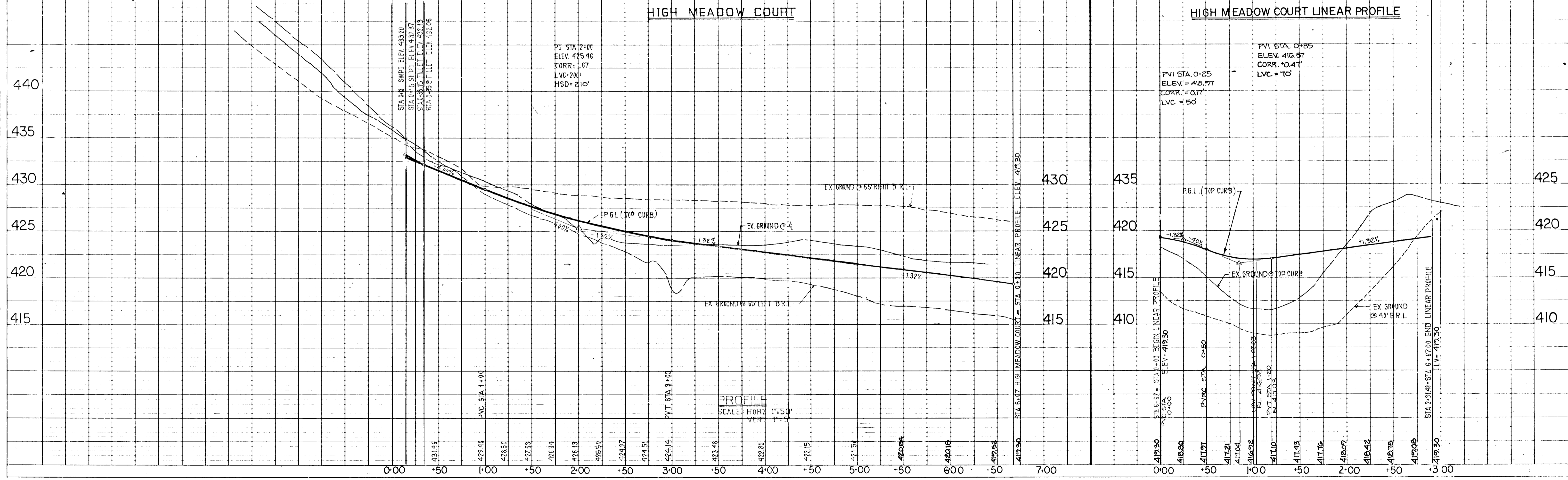
PROFILE SURVEYED BY DATE  
 NOTE BOOK NO. OF WAY CHECKED  
 STRUCTURE NOTATIONS CHECKED



**MONTGOMERY MEADOWS**  
 SECTION ONE, AREA SEVEN  
 LOTS 352 THRU 406  
 1ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
**PLAN AND PROFILE**  
**HIGH MEADOW COURT**  
 STA 0+00 TO STA 6+67  
 OWNER / DEVELOPER  
 MONTGOMERY MEADOWS GENERAL PARTNERSHIP  
 9175 GUILFORD ROAD, SUITE 302  
 COLUMBIA, MARYLAND 21046  
 (301) 604-1552

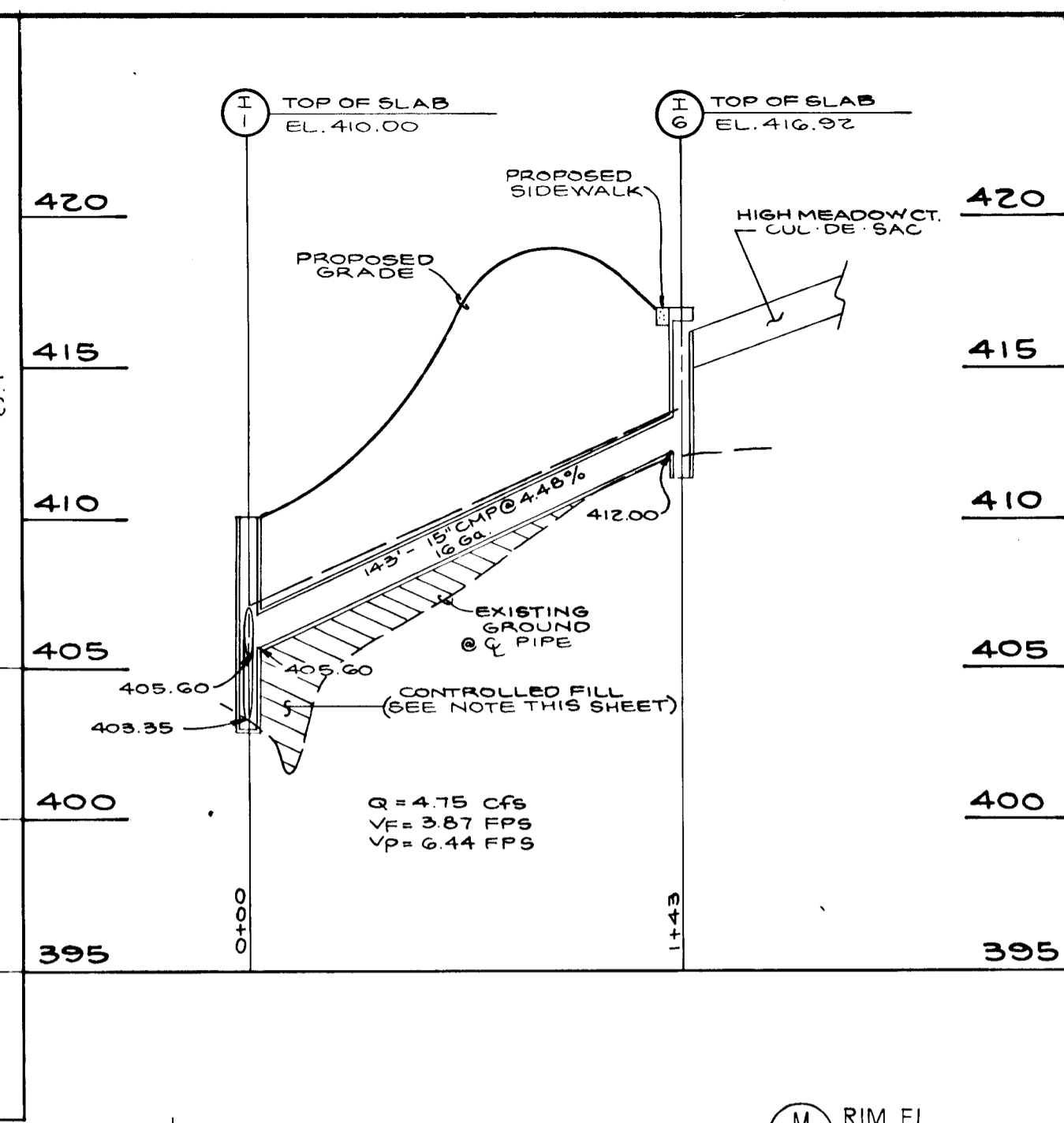
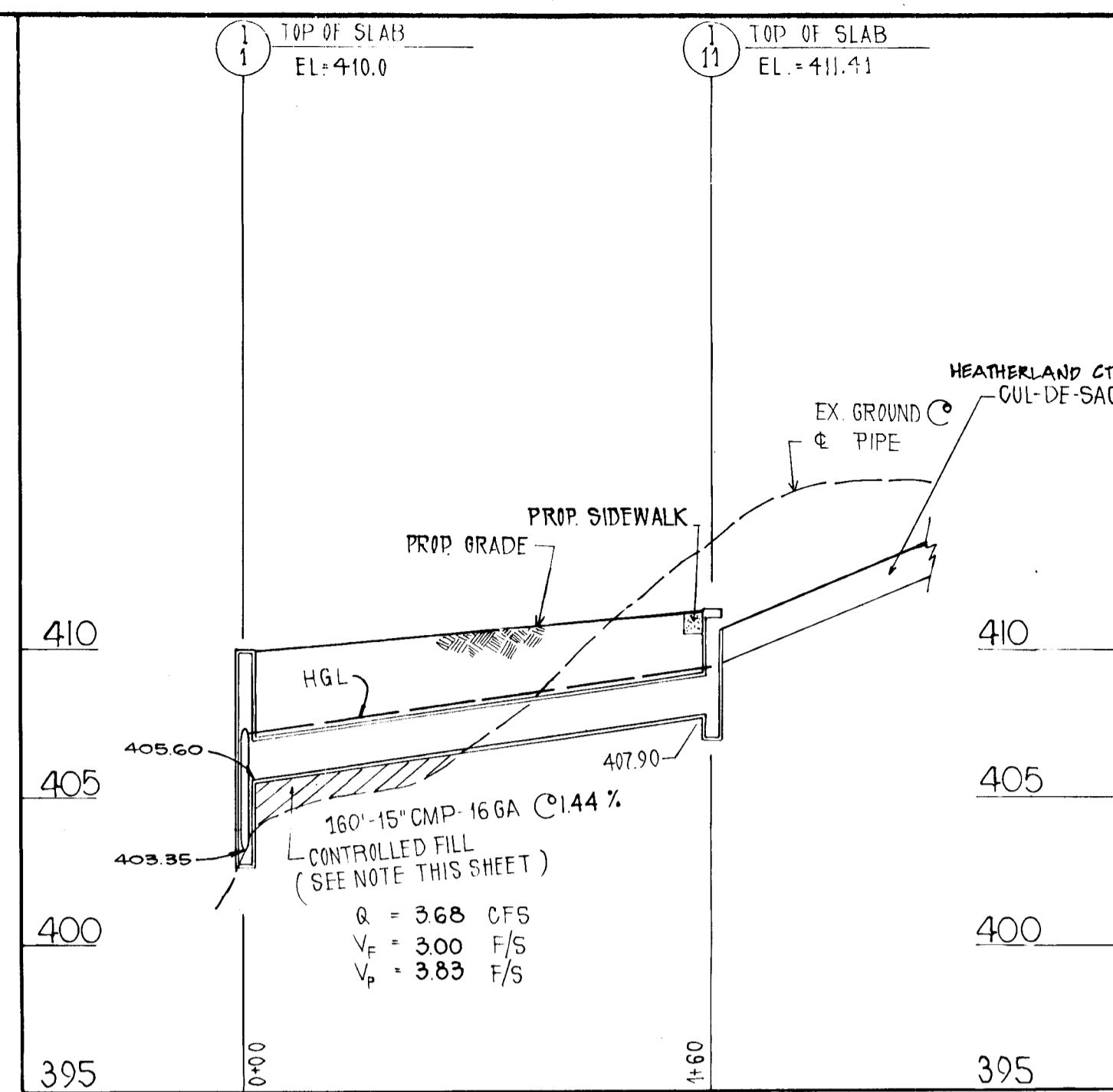
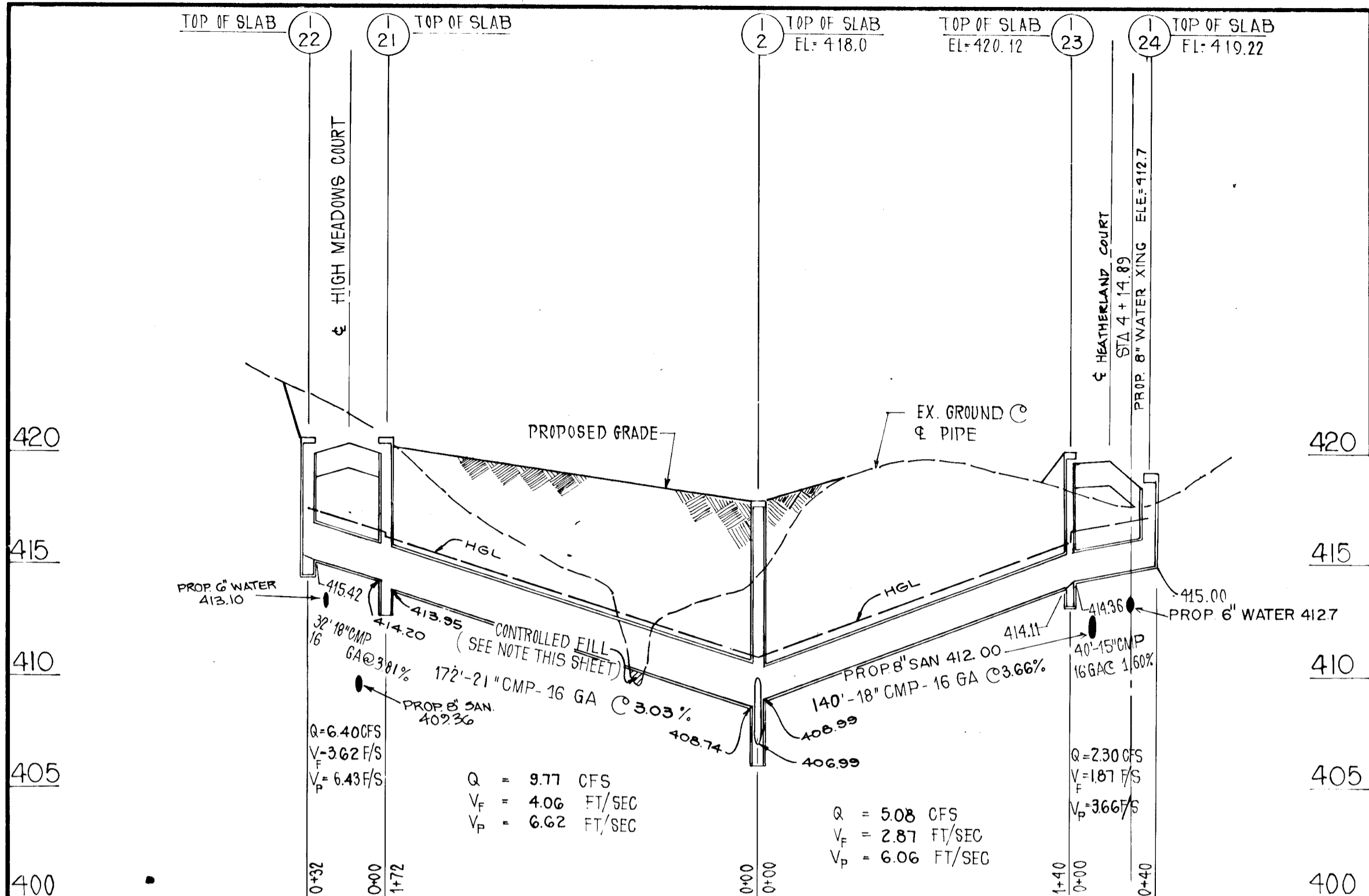
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 DESIGNED BY MDB DRAWN BY MING CHECKED BY MDB

DEWBERRY & DAVIS  
 ENGINEERS ARCHITECTS PLANNERS SURVEYORS  
 3300 NORTH RIDGE ROAD  
 ELLICOTT CITY, MARYLAND 21045  
 (301) 461-7478



1443

F-89-47

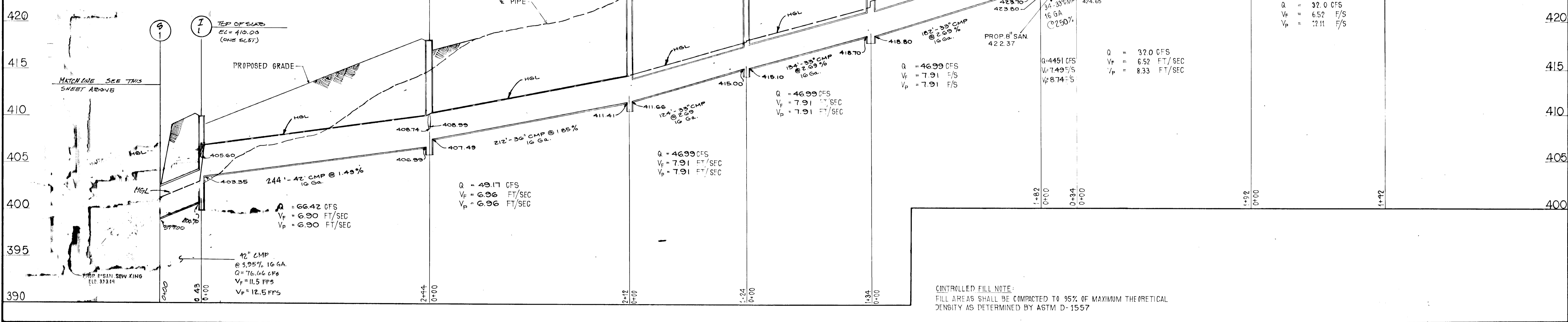
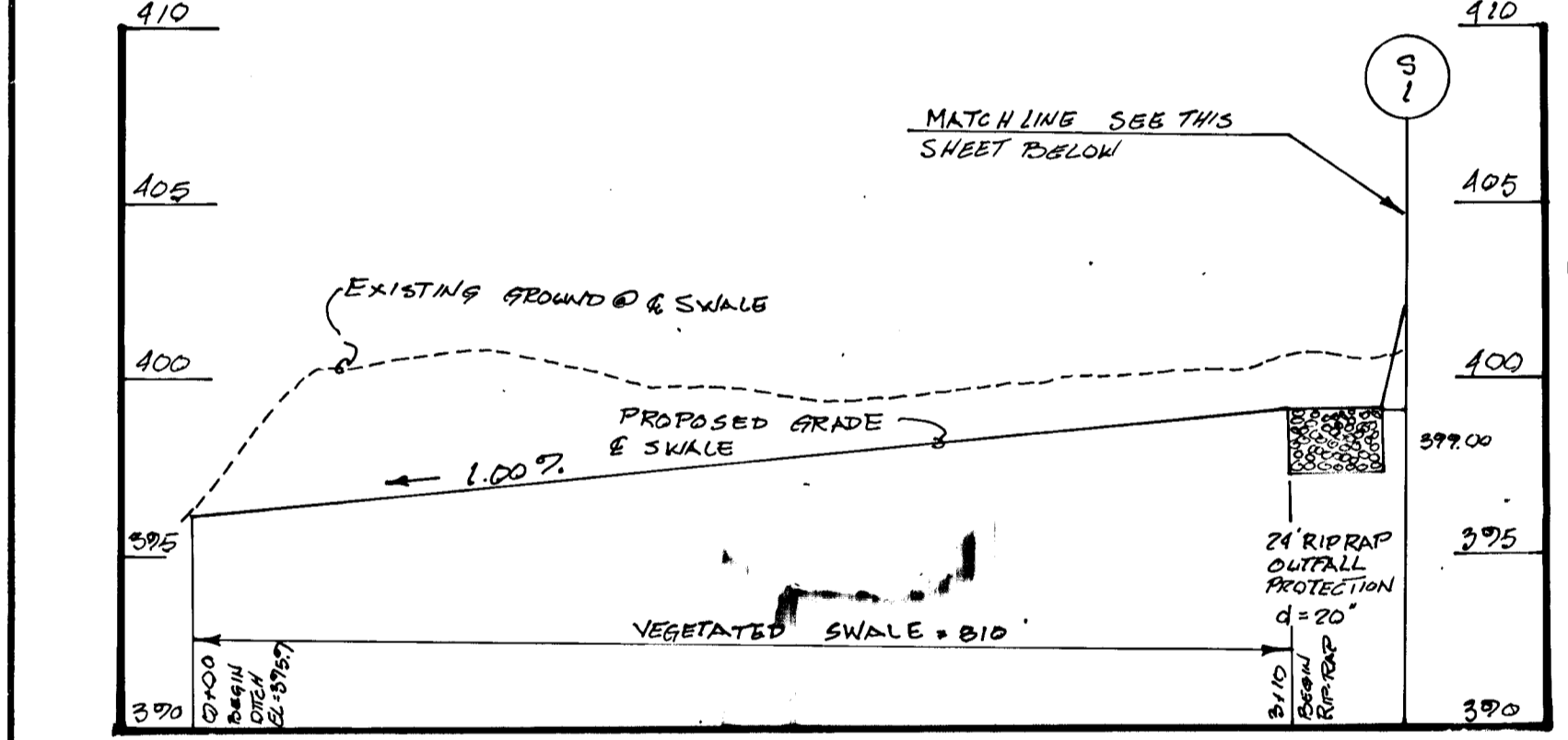
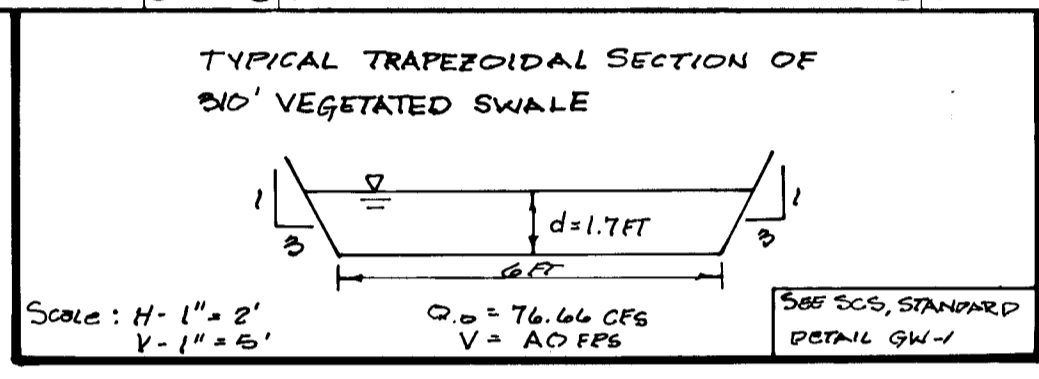


APPROVED: HOWARD COUNTY DEPT. OF PLANNING AND ZONING  
 J. S. ... 2/13/11  
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
 ... 8/10/09  
 CHIEF, PUBLIC WORKS DIVISION

... 8-9-89  
 CHIEF, BUREAU OF HIGHWAYS

... 8-11-89  
 CHIEF, BUREAU OF ENGINEERING



CONTROLLED FILL NOTE:  
 FILL AREAS SHALL BE COMPACTED TO 95% OF MAXIMUM THEORETICAL DENSITY AS DETERMINED BY ASTM D-1557

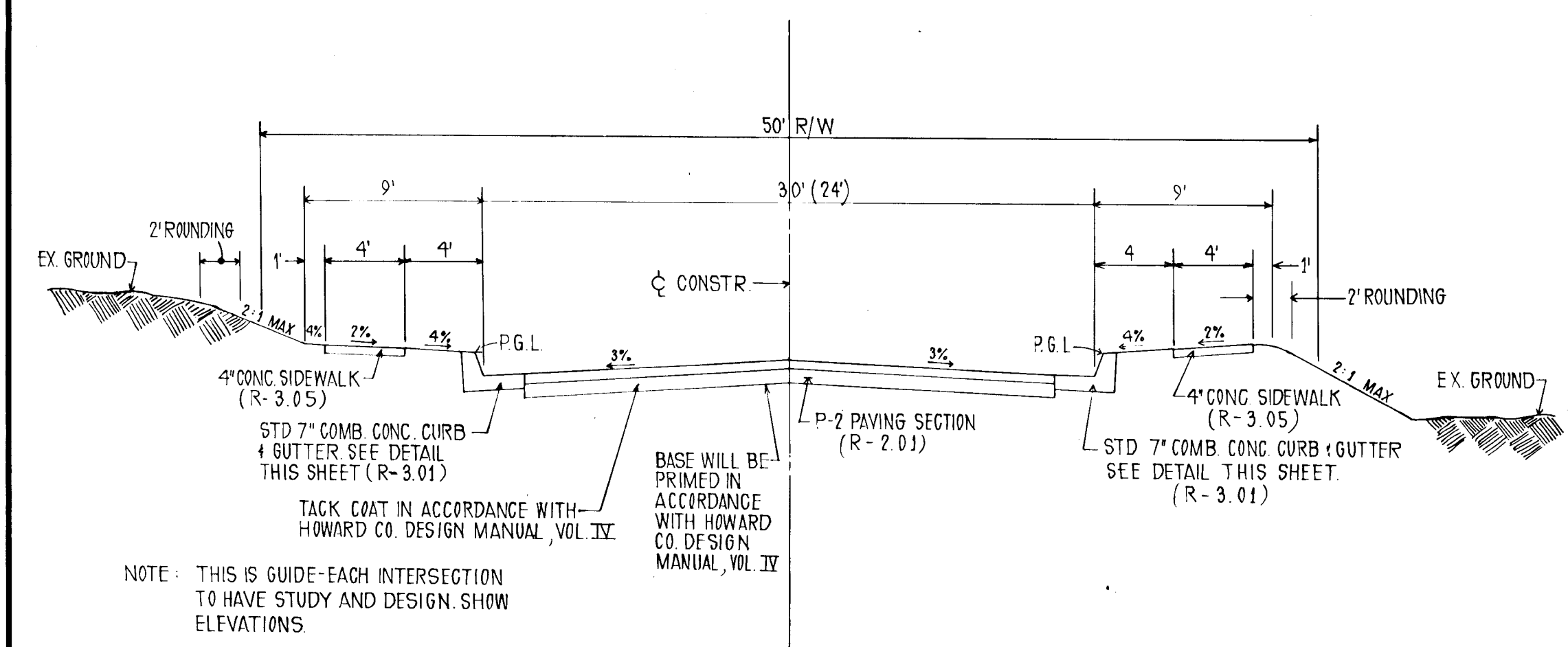
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MDB	date	2-16-90	WBJ	FOR HOWARD CO COMMENTS DATED 12-14-89			
MM	date	9-18-90	WBJ	FOR HOWARD CO COMMENTS 9-18-90			
MDB	date	6-2-03	MRS	FOR OPENING/PIPING/BLUETOOTH INLETS 12-13			
APPROVED	date						

**Dewberry & Davis**  
 ENGINEERS — ARCHITECTS — PLANNERS — SURVEYORS  
 3300 N. RIDGE ROAD, SUITE 100  
 ELLICOTT CITY, MD. 21043  
 (301) 461-7478

OWNER & DEVELOPER  
 MONTGOMERY MEADOWS GENERAL PARTNERSHIP  
 9175 GUILFORD ROAD, SUITE 302  
 COLUMBIA, MARYLAND 21046  
 (301) 604-1552

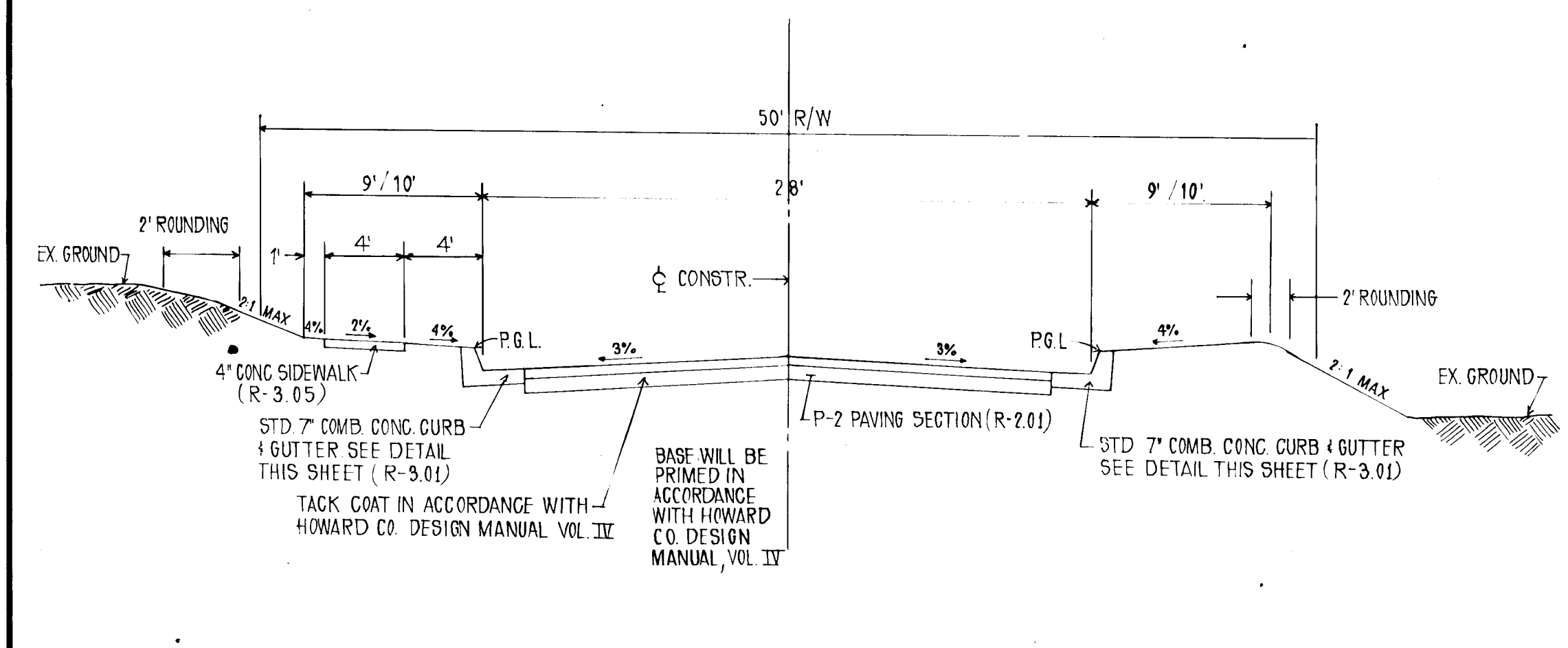
**STORM DRAIN PROFILES**  
**MONTGOMERY MEADOWS**  
 SECTION ONE AREA SEVEN  
 LOT 392 TO LOT 406  
 TAX MAP PARCEL BLOCK  
 1ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
 MAY 6, 1988

1443



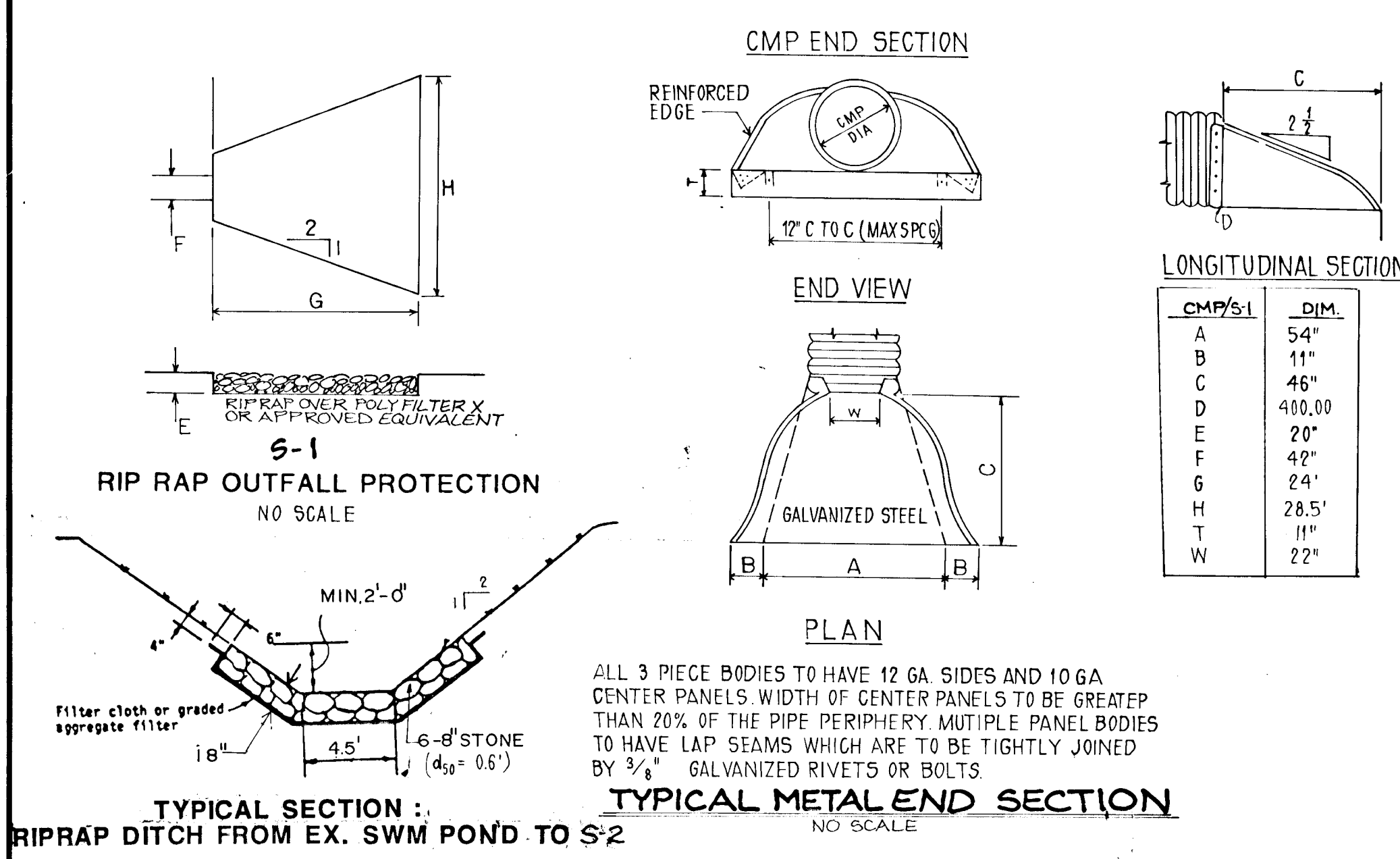
DESIGN SPEED: 30 MPH ZONED: R-20  
 ELKO DRIVE STA. 10+67.09 TO 21+72.99  
 EAST GLEN ROAD STA. 1+00 TO 9+82.36

LOCAL STREETS  
 NO SCALE

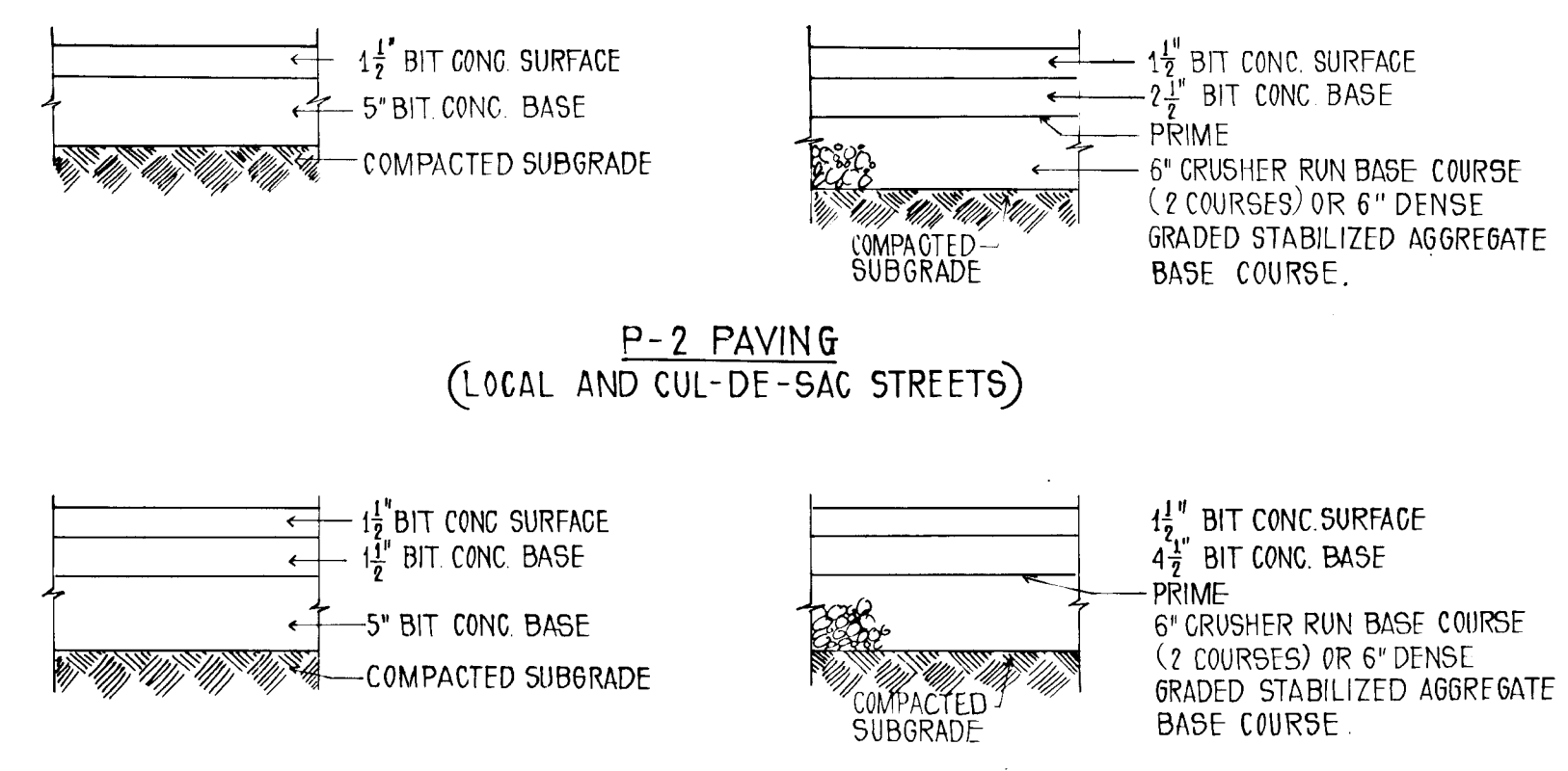


DESIGN SPEED: 25 MPH ZONED: R-20  
 HIGH MEADOW COURT STA. 0+00 TO 7+42.99  
 HEATHERLAND COURT STA. 0+00 TO 5+61.11

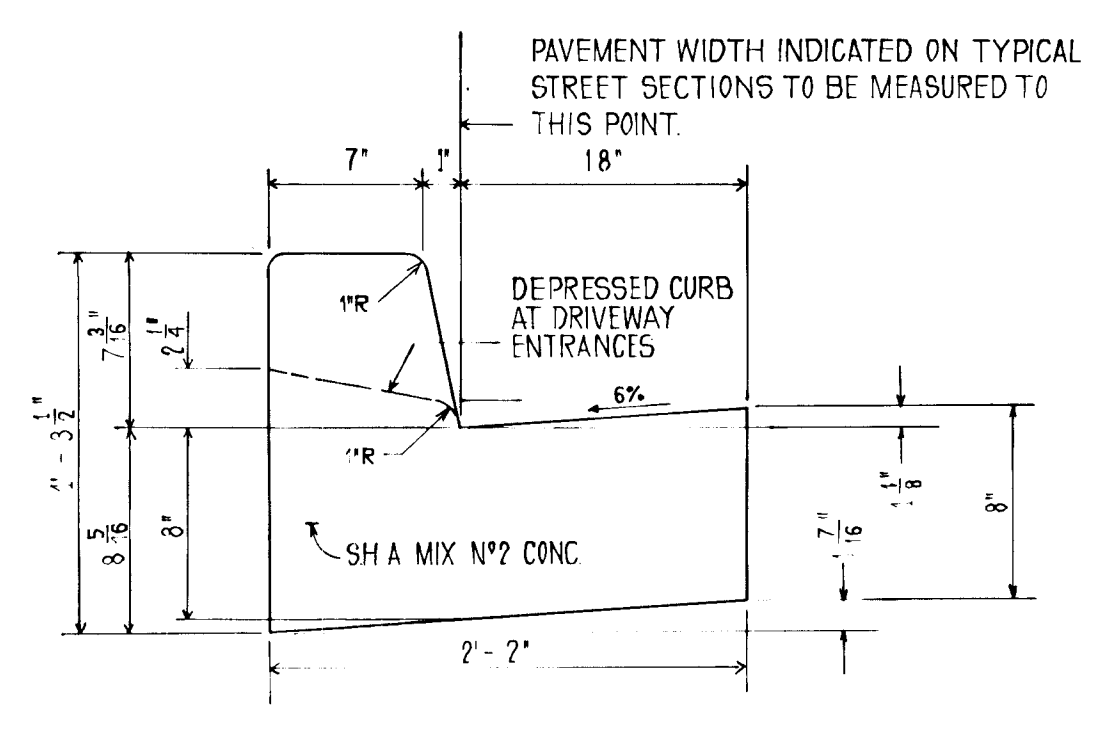
Cul-De-Sac STREETS  
 TYPICAL SECTION  
 NO SCALE



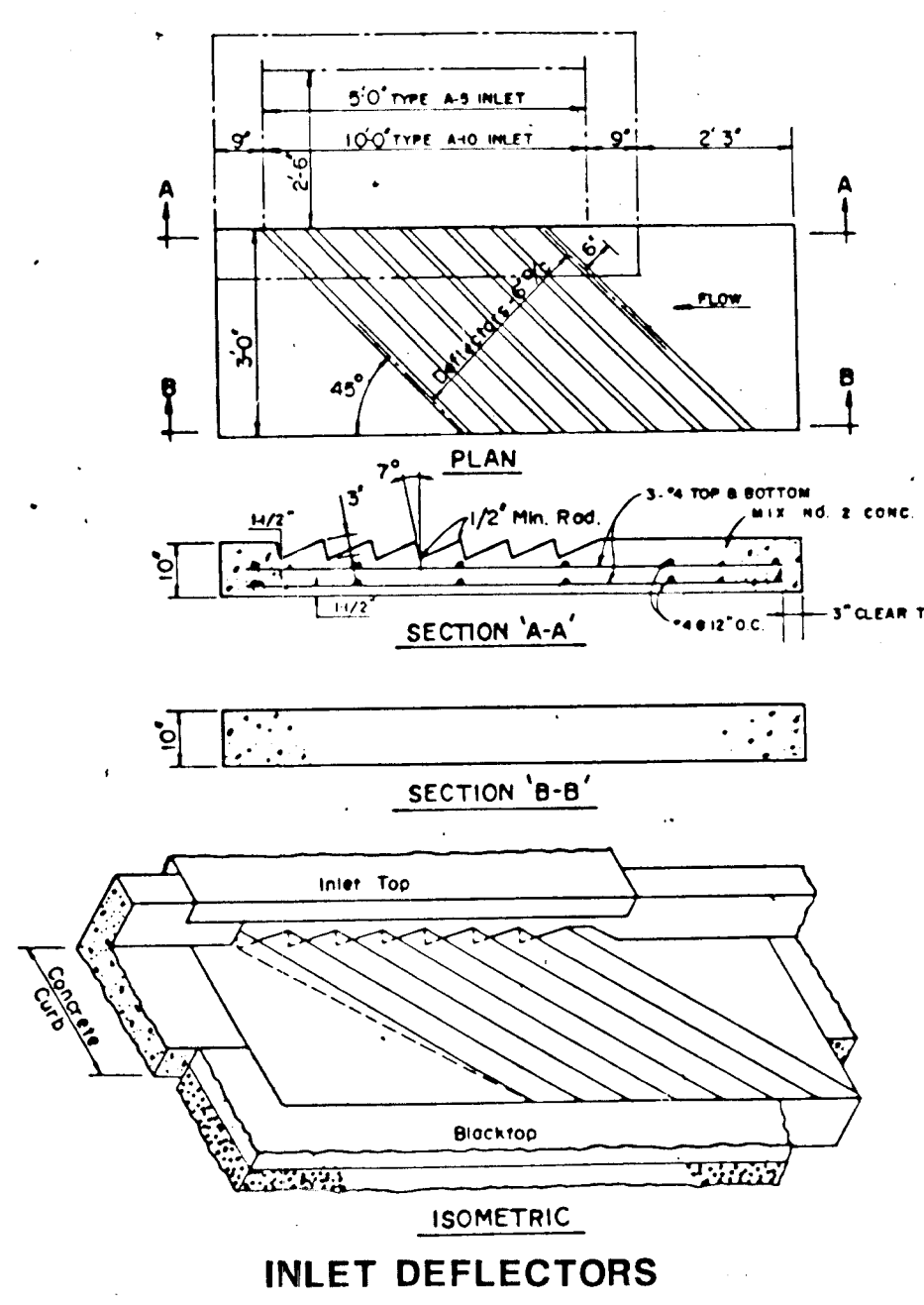
TYPICAL METAL END SECTION  
 NO SCALE



PAVING SECTIONS  
 NO SCALE



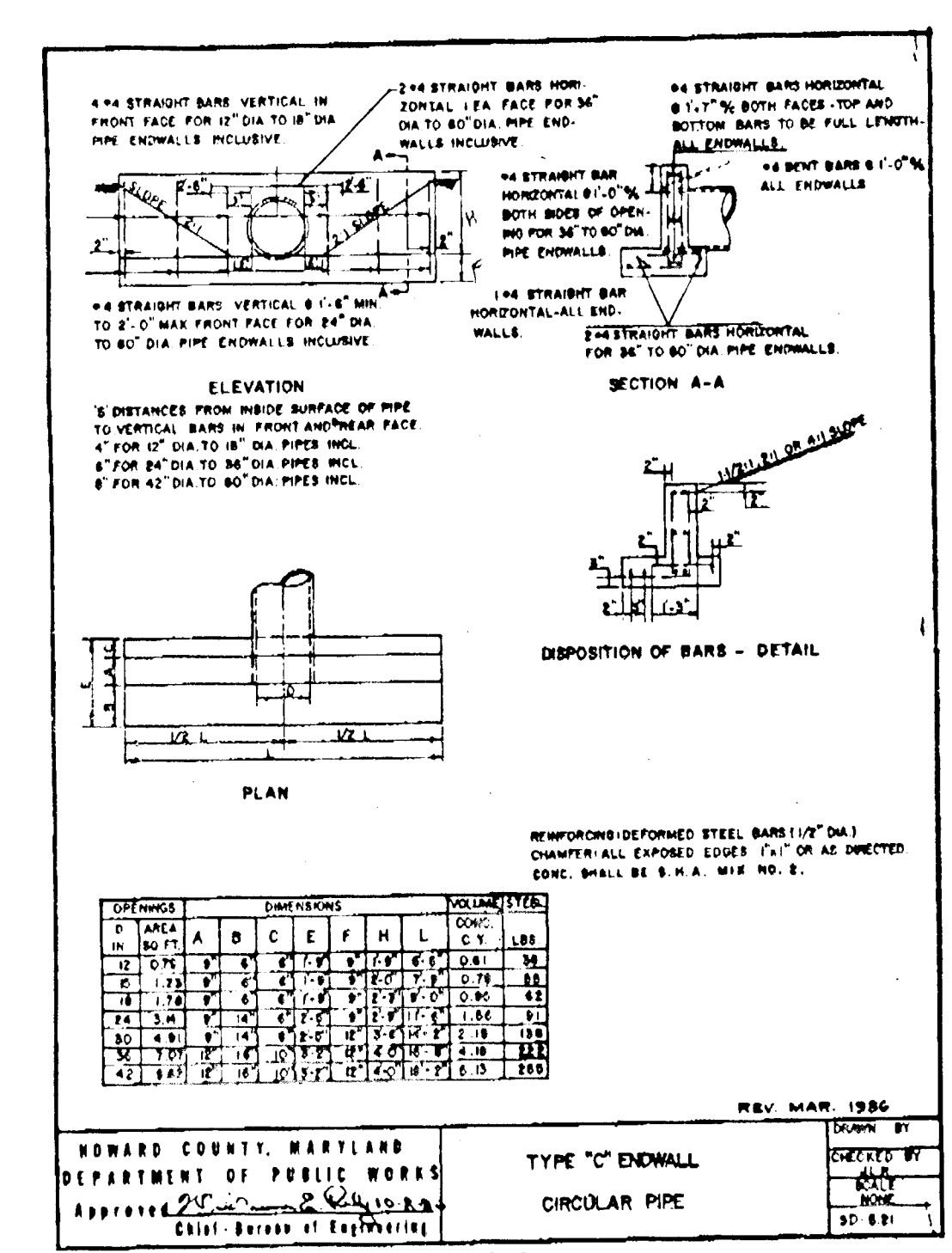
STANDARD 7" COMBINATION CURB & GUTTER  
 NO SCALE



INLET DEFLECTORS

TYPICAL SECTION NOTES:

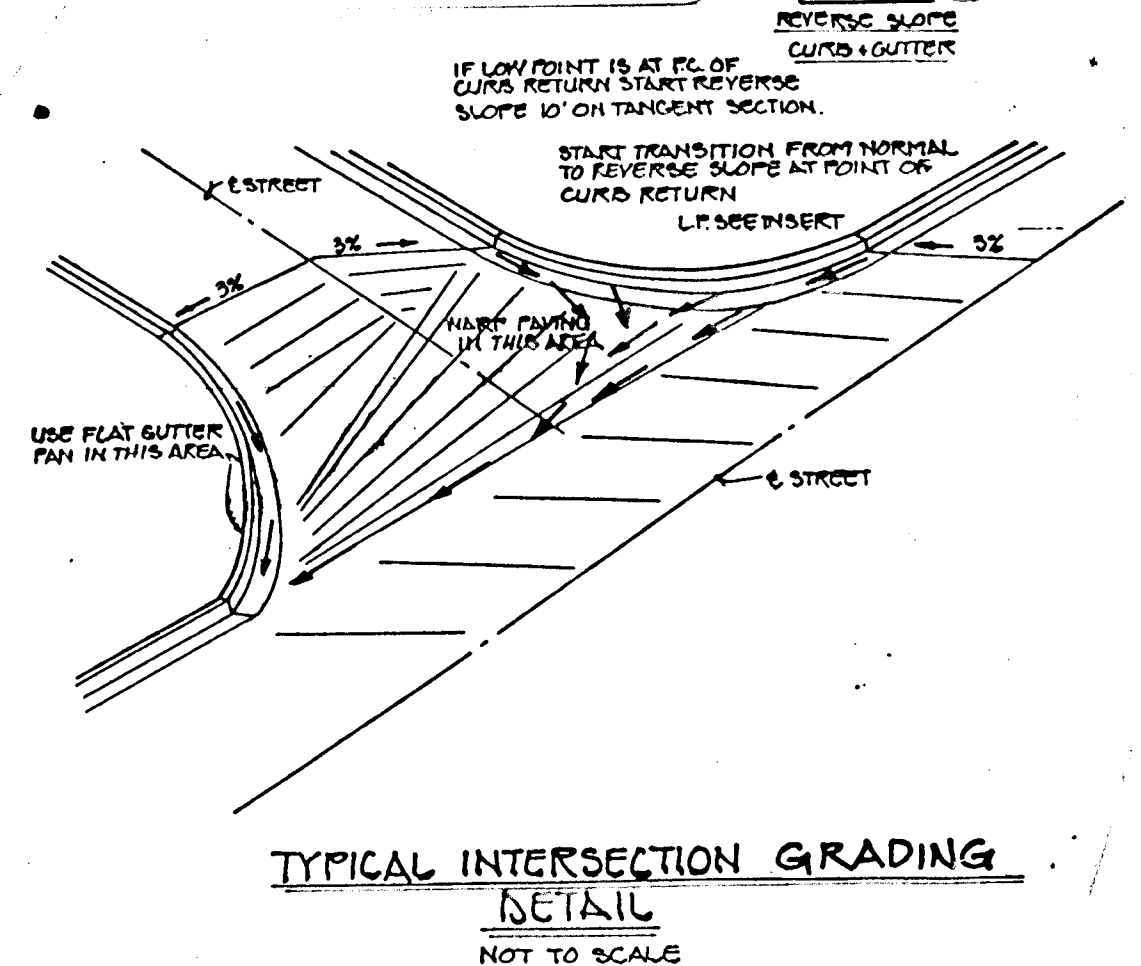
1. ALL MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH HOWARD COUNTY DESIGN MANUAL VOLUME II, STANDARD SPECIFICATION AND DETAILS FOR CONSTRUCTION.
2. ALL DISTURBED AREAS TO BE STABILIZED WITH 2" TOP SOIL SEED AND MULCH.



STRUCTURE SCHEDULE

STRUCTURE NO.	LOCATION	TOP ELEV.	INV. IN	INV. OUT	STR. TYPE	REMARKS
S 1	NORTHEAST PROPERTY CORNER LOT 312	-	400.30(42)	400.30(42)	MTL END SECT	SD 5.61
I 1	"	410.00	403.35(42)	402.85(42)	D INLET	SD 4.11
I 2	"	418.00	407.47(36)	406.97(42)	D INLET	SD 4.11
I 3	"	424.50	411.66(33)	411.41(36)	D INLET	SD 4.11
M 1	"	428.60	415.10(33)	415.00(33)	MANHOLE	G 5.02
M 2	23+10.59 ELKO DR., 18' LT.	437.01	418.80(33)	418.70(33)	MANHOLE	G 5.02
I 4	24+92.59 ELKO DR., 15' LT.	432.71	423.80(33)	423.70(33)	A-5 SUMP	SD 4.01
I 5	24+92.59 ELKO DR., 15' RT.	432.71	424.90(30)	424.65(33)	A-10 SUMP	G 5.02
M 3	26+80.59 ELKO DR., 20' RT.	434.14	430.08(30)	429.98(30)	MANHOLE	G 5.02
S 2	SEE SHEET 8 OF 9	-	44.00(30)	-	C ENDWALL	SD 5.21
I 11	2+00 HEATHERLAND COURT LIN. PROFILE	411.41	-	407.90(15)	A-5 SUMP	SD 4.01
I 21	5+74.46 HIGH MEADOW, 14' LT.	420.52	414.20(18)	413.95(21)	A-10 WDEFL	SD 4.02
I 22	5+74.46 HIGH MEADOW, 14' RT.	420.52	-	415.4(18)	A-10 SUMP	SD 4.02
I 23	4+14.89 HEATHERLAND COURT, 14' RT.	420.12	414.36(15)	414.11(18)	A-5 WDEFL	SD 4.01
I 24	4+34 " " " " " " " " " " " "	419.22	-	415.00(15)	A-5 WDEFL	SD 4.01
I G	1+02.63 HIGH MEADOW CT. LIN. PROFILE	416.92	-	412.00(15)	A-5 SUMP	SD 4.01

\* MODIFY SD 4.11 TO 3'-6" WALL TO MATCH OTHER DIMENSIONS (ALL SIDES)



TYPICAL INTERSECTION GRADING  
 DETAIL  
 NOT TO SCALE

DESIGNED	DATE	BY	DESCRIPTION
MDB	5-6-88		
DRAWN	5-6-88	M.R.G.	MODIFY INLETS I, I.E., I.S. TO ALLOW FOR CLEARANCE OF 3'-6" TO 3'-8" CMP
CHECKED	5-6-88		
APPROVED			

**Dewberry & Davis**  
 ENGINEERS — ARCHITECTS — PLANNERS — SURVEYORS  
 3300 N. RIDGE ROAD, SUITE 100  
 ELLICOTT CITY, MD. 21043  
 (301) 461-7478

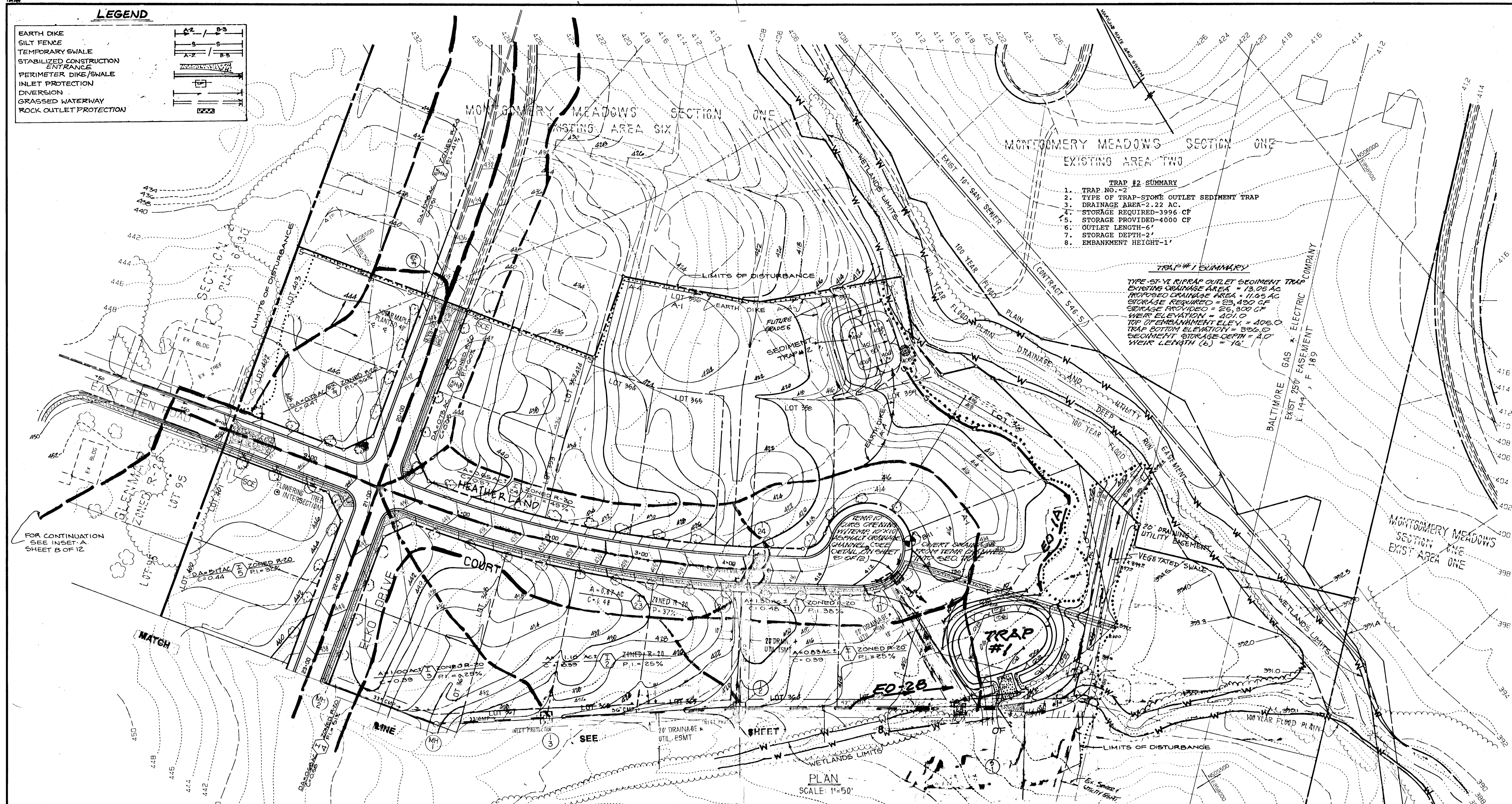
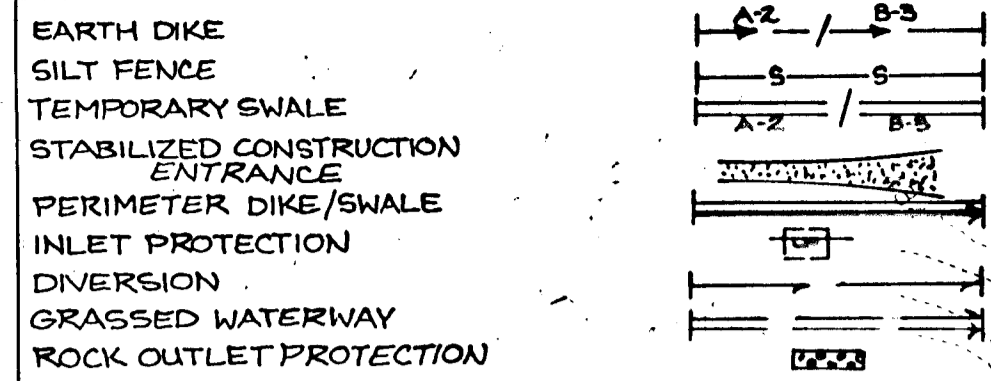


MONTGOMERY MEADOWS GENERAL PARTNERSHIP  
 9175 GUILFORD ROAD, SUITE 302  
 COLUMBIA, MARYLAND 21046  
 (301) 604-1552

ROAD SECTIONS, STRUCTURE SCHEDULE & DETAIL  
**MONTGOMERY MEADOWS**  
 SECTION ONE, AREA SEVEN  
 LOT 352 THRU LOT 406  
 1ST ELECTION DISTRICT HOWARD COUNTY, MD

APPROVED HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
 [Signature] 8/10/89  
 CHIEF, LAND DEVELOPMENT DIVISION  
 [Signature] 8-9-89  
 CHIEF, BUREAU OF HIGHWAYS  
 [Signature] 8-11-89  
 CHIEF, BUREAU OF ENGINEERING  
 APPROVED HOWARD COUNTY DEPT. OF PLANNING AND ZONING  
 [Signature] 8/10/89  
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

**LEGEND**



**TRAP #2 SUMMARY**

1. TRAP NO.-2
2. TYPE OF TRAP-STONE OUTLET SEDIMENT TRAP
3. DRAINAGE AREA-2.22 AC.
4. STORAGE REQUIRED-3996 CF
5. STORAGE PROVIDED-4000 CF
6. OUTLET LENGTH-6'
7. STORAGE DEPTH-2'
8. EMBANKMENT HEIGHT-1'

**TRAP #1 SUMMARY**

TYPE ST-VI RIPRAP OUTLET SEDIMENT TRAP  
 EXISTING DRAINAGE AREA = 13.05 AC  
 PROPOSED DRAINAGE AREA = 11.05 AC  
 STORAGE REQUIRED = 23,400 CF  
 STORAGE PROVIDED = 23,400 CF  
 WEIR ELEVATION = 401.0  
 TOP OF EMBANKMENT ELEV. = 405.0  
 TRAP BOTTOM ELEVATION = 399.0  
 SEDIMENT STORAGE DEPTH = 4.0'  
 WEIR LENGTH (L) = 16'

FOR CONTINUATION SEE INSET-A SHEET B OF 12

NOTES:  
 1) FOR LEGEND TREE PLANTING DETAIL SEE SHEET 9 OF 9

LANDSCAPE TABULATION				
SYMBOL	NUMBER	NAME	SIZE	REMARK
⊙	113	ACER SACCHARUM (SUGAR MAPLE)	2 1/2" CALIPER	B x B
⊙	4	CRATAEGUS PHAENOPYRUM (WASHINGTON HAWTHORN)	2 1/2" CALIPER	B x B

NOTE:  
 STREET TREE 2 1/2" MIN. CALIPER 40' ON CENTER (SEE PLANTING DETAIL SHEET 9 OF 9)

**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. This plan was prepared in accordance with the requirements of the Howard Soil Conservation District.

**DEVELOPER'S CERTIFICATE**  
 I/We certify that all development and/or construction will be done according to these plans, and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of Natural Resources Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspections by the Howard Soil Conservation District.

APPROVED HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
 [Signatures and Dates: 8/10/89, 8-9-89, 8-11-89]

These plans have been reviewed for the Howard Soil Conservation District and meet the technical requirements for erosion and sediment control.  
 [Signatures and Dates: 8/2/89, 8/4/89]

APPROVED HOWARD COUNTY DEPT. OF PLANNING AND ZONING  
 [Signature and Date: 5/19/89]

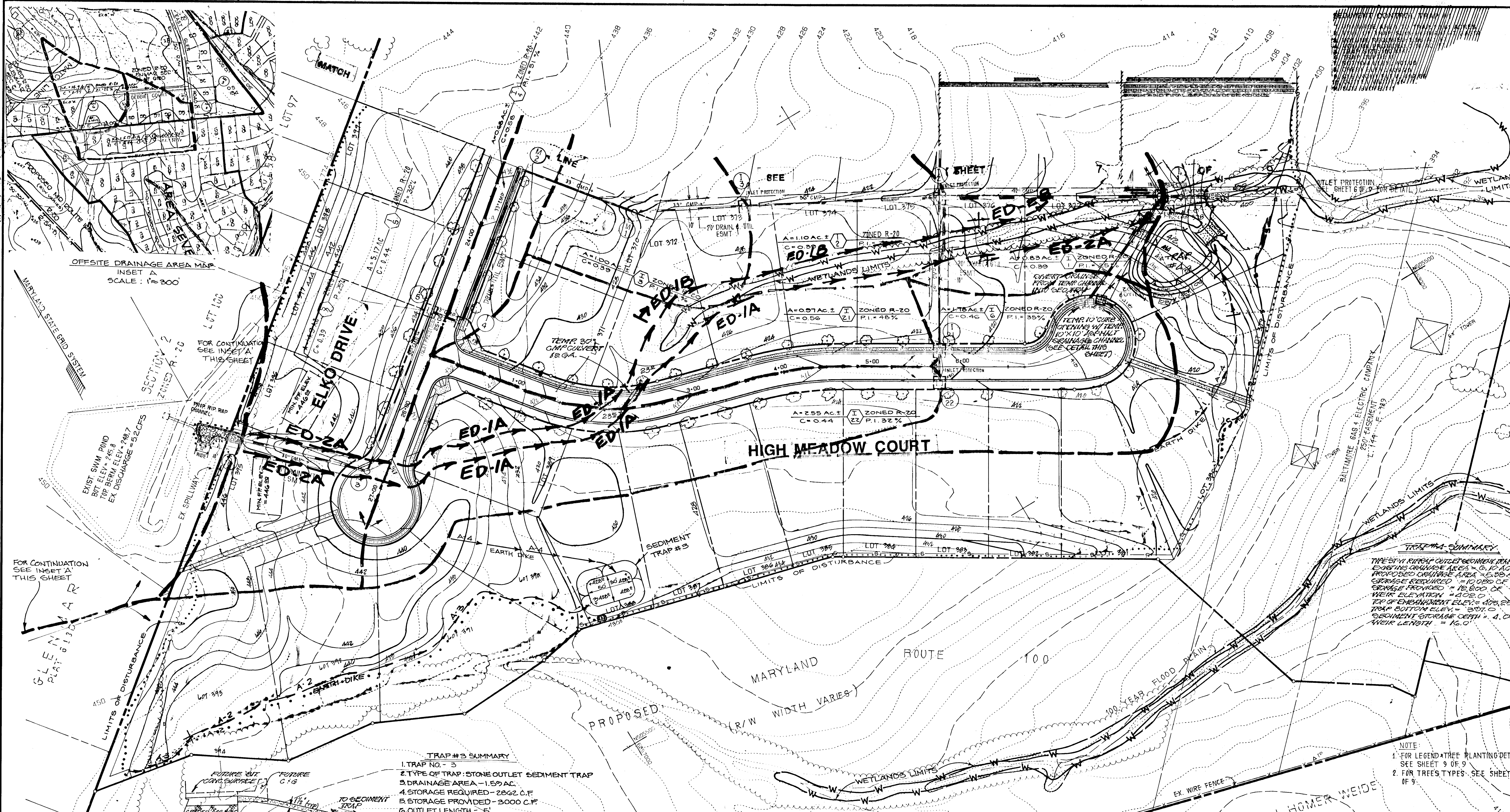
REVISIONS			
DESIGNED	DATE	BY	DESCRIPTION
MMB	5-6-88		
MM	5-6-88	WJW	FOR HOWARD CO COMMENTS DATED 11-14-87
	7-28-90	NEB	FOR HOWARD CO COMMENTS DATED 7-18-90
	5-6-88	MKS	DELETE SEMI-PERMANENT SWAMP CHANNEL, SOO TRACT 1, EXISTING DIKE

**Dewberry & Davis**  
 ENGINEERS — ARCHITECTS — PLANNERS — SURVEYORS  
 3300 N. RIDGE ROAD, SUITE 100  
 ELLICOTT CITY, MD. 21043  
 (301) 461-7478

**OWNER & DEVELOPER**  
 MONTGOMERY MEADOWS GENERAL PARTNERSHIP  
 9175 GUILFORD ROAD, SUITE 302  
 COLUMBIA, MARYLAND 21046  
 (301) 604-1552

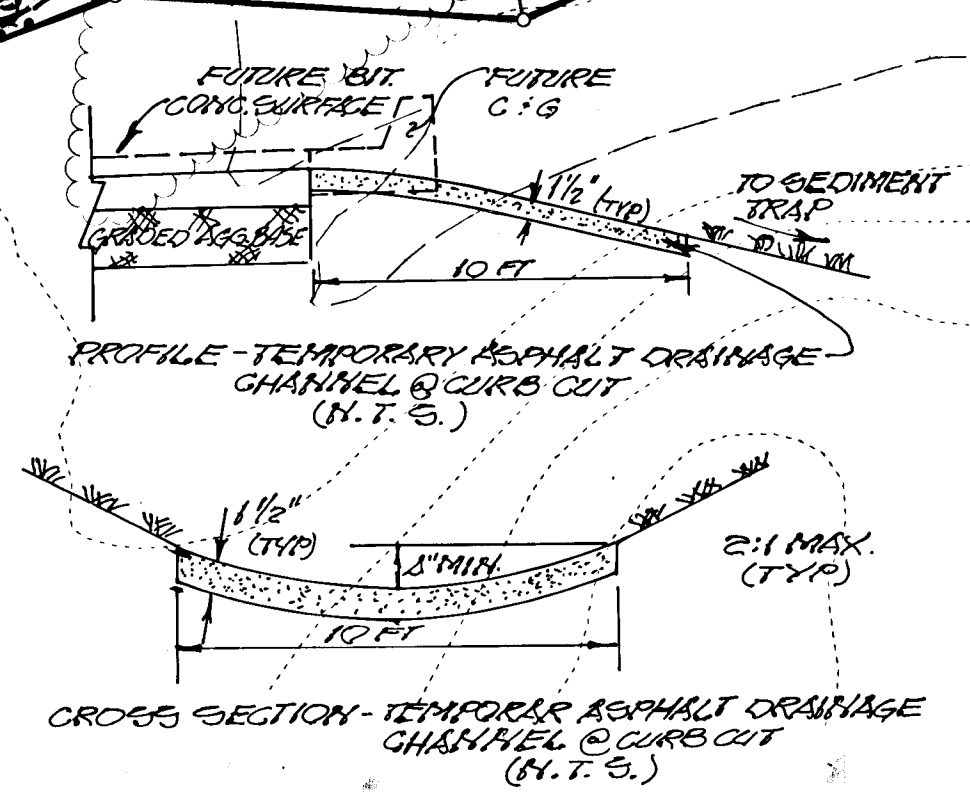
**LANDSCAPE PLAN, DRAINAGE AREA MAP, LAND GRADING & SEDIMENT CONTROL PLAN, MONTGOMERY MEADOWS SECTION ONE AREA SEVEN**  
 LOT 392 TO LOT 406  
 TAX MAP PARCEL BLOCK  
 1ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
 SCALE: 1" = 50' MAY 6, 1988

1443



OFFSITE DRAINAGE AREA MAP  
INSET A  
SCALE: 1" = 300'

FOR CONTINUATION  
SEE INSET A  
THIS SHEET



- TRAP #3 SUMMARY**
1. TRAP NO. - 3
  2. TYPE OF TRAP: STONE OUTLET SEDIMENT TRAP
  3. DRAINAGE AREA - 1.59 AC.
  4. STORAGE REQUIRED - 2862 C.F.
  5. STORAGE PROVIDED - 3000 C.F.
  6. OUTLET LENGTH - 5'
  7. STORAGE DEPTH - 2'
  8. EMBANKMENT HEIGHT - 1'

**TRAP #4 SUMMARY**

THREE (3) RITZAP CURBS BEHIND TRAP  
EXISTING DRAINAGE AREA = 0.10 AC.  
PROPOSED DRAINAGE AREA = 0.50 AC.  
STORAGE REQUIRED = 10,000 C.F.  
STORAGE PROVIDED = 10,000 C.F.  
TRAP BOTTOM ELEVATION = 408.0'  
TRAP BOTTOM ELEVATION = 408.0'  
TRAP BOTTOM ELEVATION = 408.0'  
TRAP BOTTOM ELEVATION = 408.0'  
TRAP BOTTOM ELEVATION = 408.0'  
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TRAP BOTTOM ELEVATION = 408.0'  
TRAP BOTTOM ELEVATION = 408.0'

- NOTE:**
1. FOR LEGEND TREE PLANTING DETAIL SEE SHEET 9 OF 9
  2. FOR TREE TYPES SEE SHEET 7 OF 9

**ENGINEER'S CERTIFICATE**

"I certify that this plan for sediment control, erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions. This plan was prepared in accordance with the requirements of the Howard Soil Conservation District. Howard Soil Conservation District also authorizes periodic on-site inspections by the Howard Soil Conservation District."

*Thomas C. Leiby* 7-26-89 DATE

**DEVELOPER'S CERTIFICATE**

"I/we certify that all development and/or construction will be done according to these plans, and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of Natural Resources Approved Training Program for the Control of Sediment and Erosion before beginning the project. Howard Soil Conservation District also authorizes periodic on-site inspections by the Howard Soil Conservation District."

*Smith D. Melh* 7/27/89 DATE

These plans have been reviewed for the Howard Soil Conservation District and see the technical requirements for sediment control, soil erosion and sediment control.

*Robert W. Ziehm* 8/13/89 DATE  
Howard Soil Conservation District

APPROVED HOWARD COUNTY DEPT. OF PLANNING AND ZONING

*Mark J. D'Angelo* 7/15/89 DATE  
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

APPROVED HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

*Donald J. Olson* 8/10/89 DATE  
CHIEF, BUREAU OF HIGHWAYS

*Charles A. Hunsbaker* 8-9-89 DATE  
CHIEF, BUREAU OF ENGINEERING

*Gregory S. Ray* 8-11-89 DATE  
CHIEF, BUREAU OF ENGINEERING

REVISIONS			
DATE	BY	DESCRIPTION	
5-6-88	MMB	DESIGNED	
5-6-88	MM	DRAWN	
5-6-88	MMB	CHECKED	
		APPROVED	
9/28/90	WED	REVISED AS PER HOWARD COUNTY COMMENTS 9/18/90	
6/10/03	M.R.S.	ADD TEMP DRAINAGE CHANNEL ACCESS EAST DIBES	

**Dewberry & Davis**  
ENGINEERS — ARCHITECTS — PLANNERS — SURVEYORS  
3300 N. RIDGE ROAD, SUITE 100  
ELLCOTT CITY, MD. 21043  
(301) 461-7478



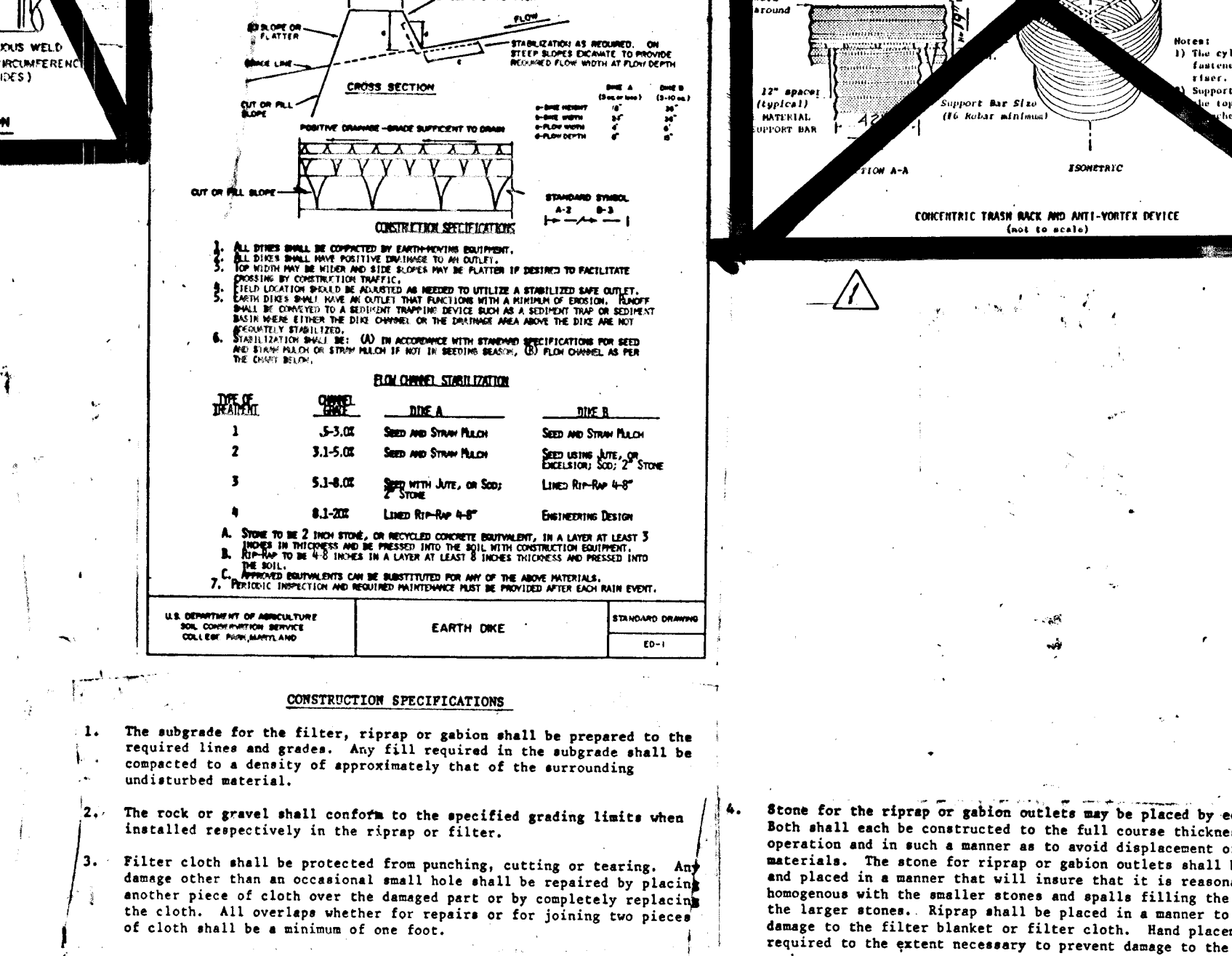
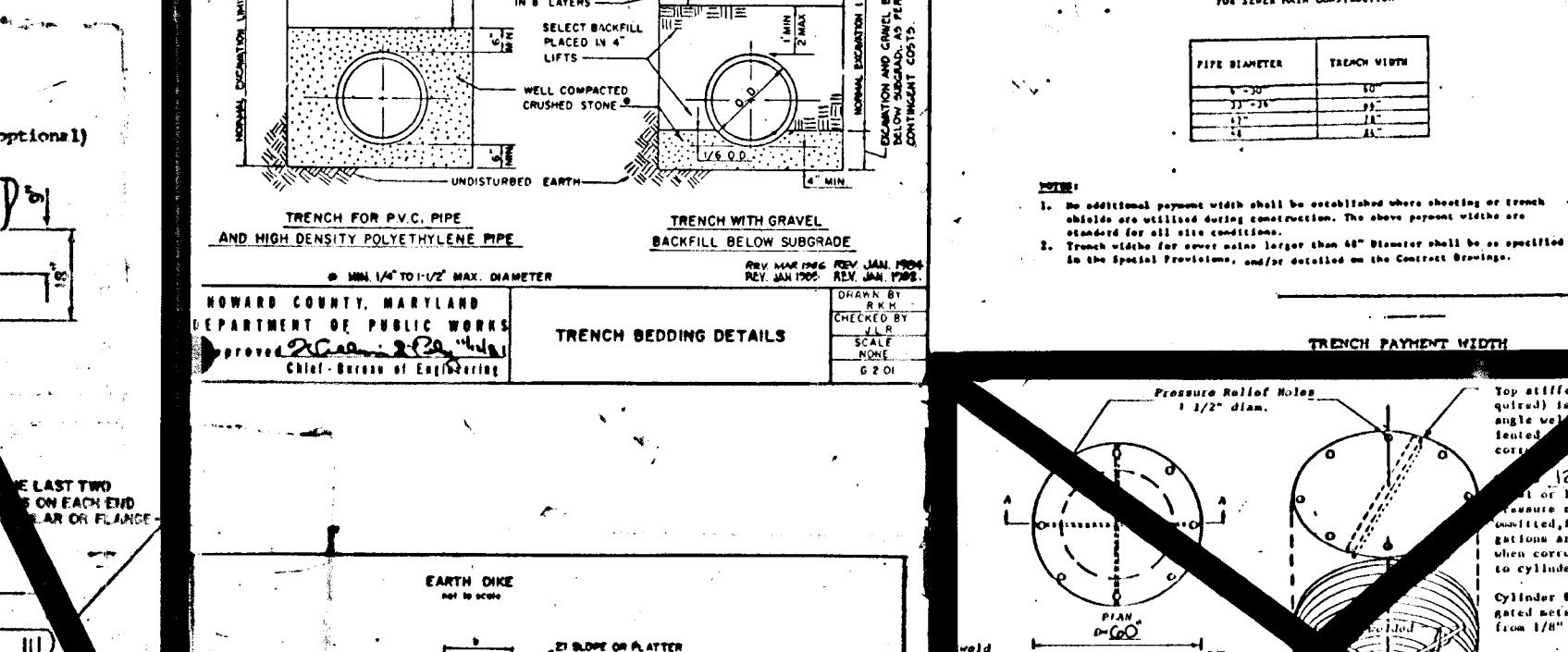
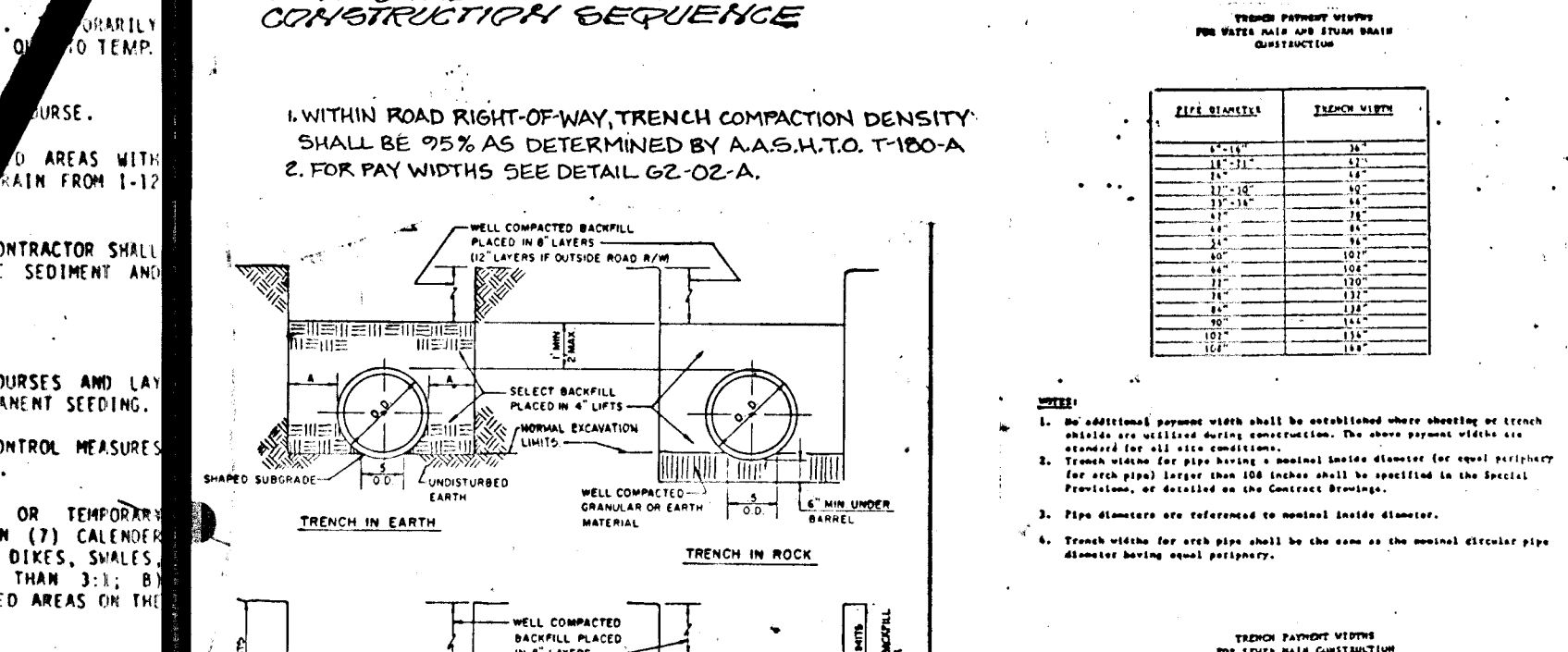
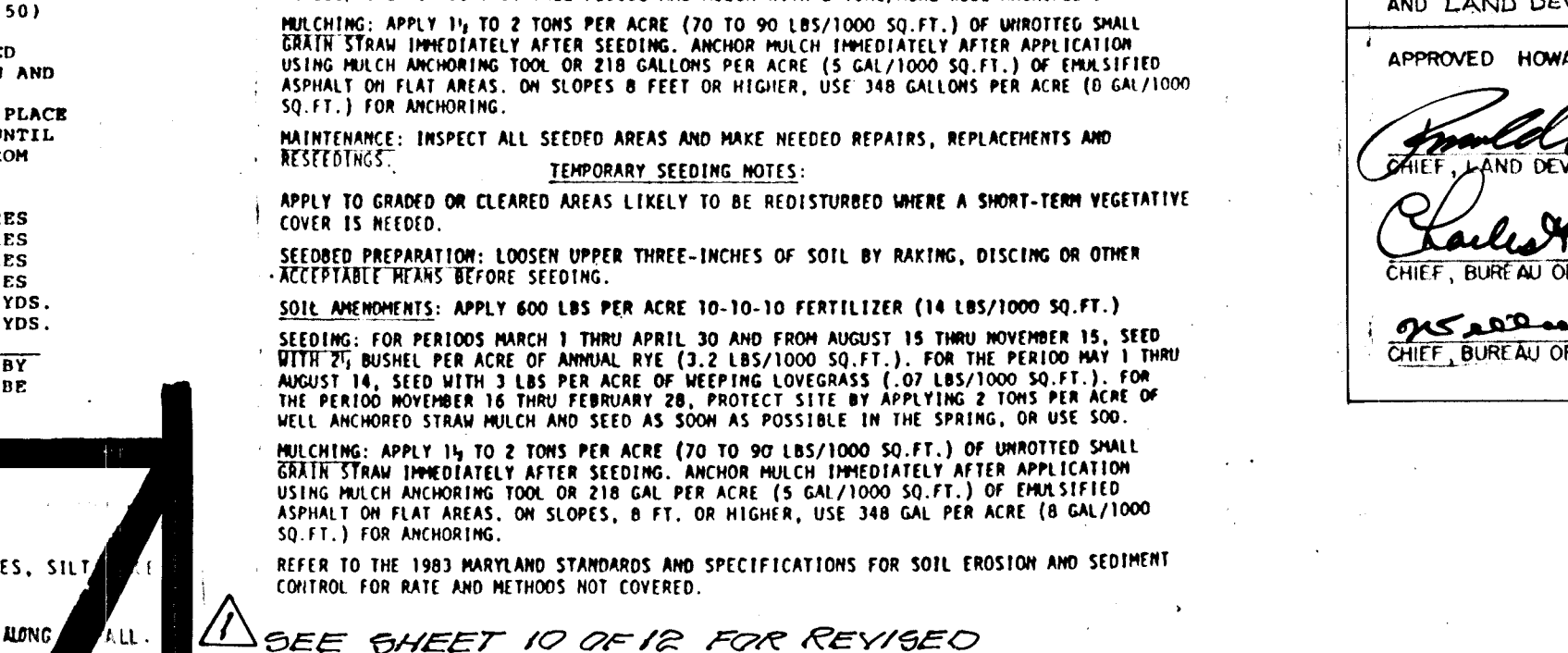
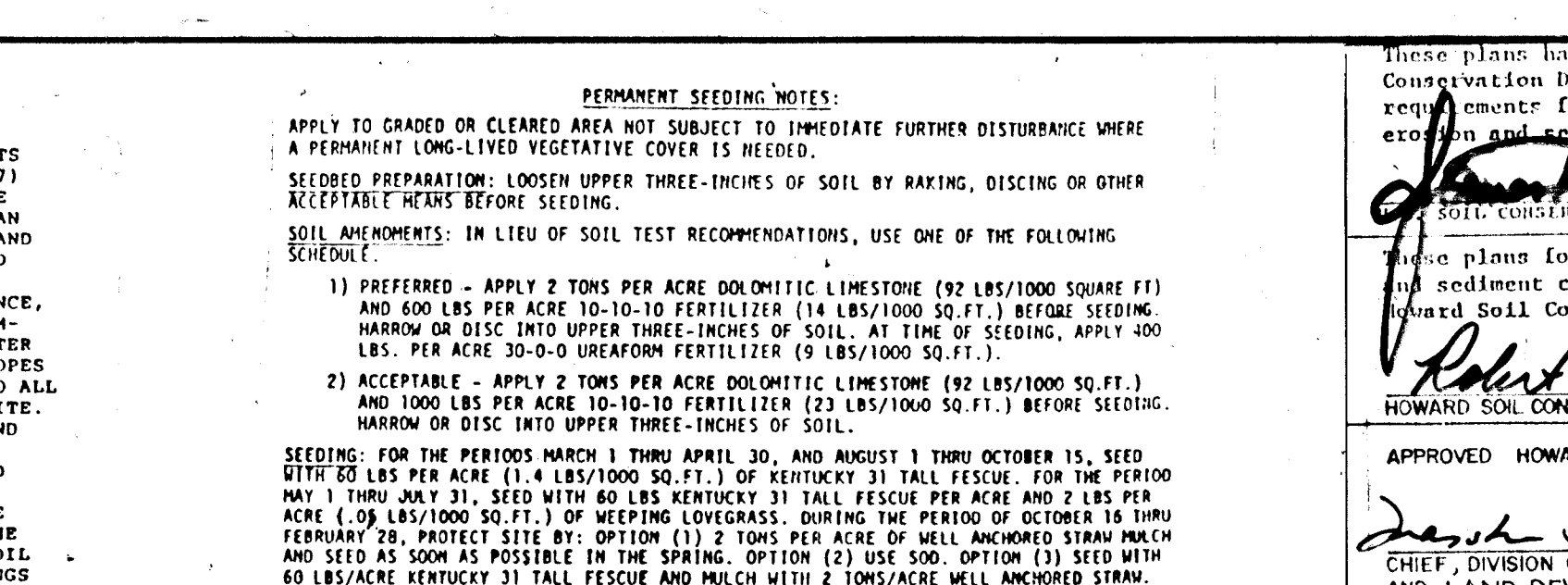
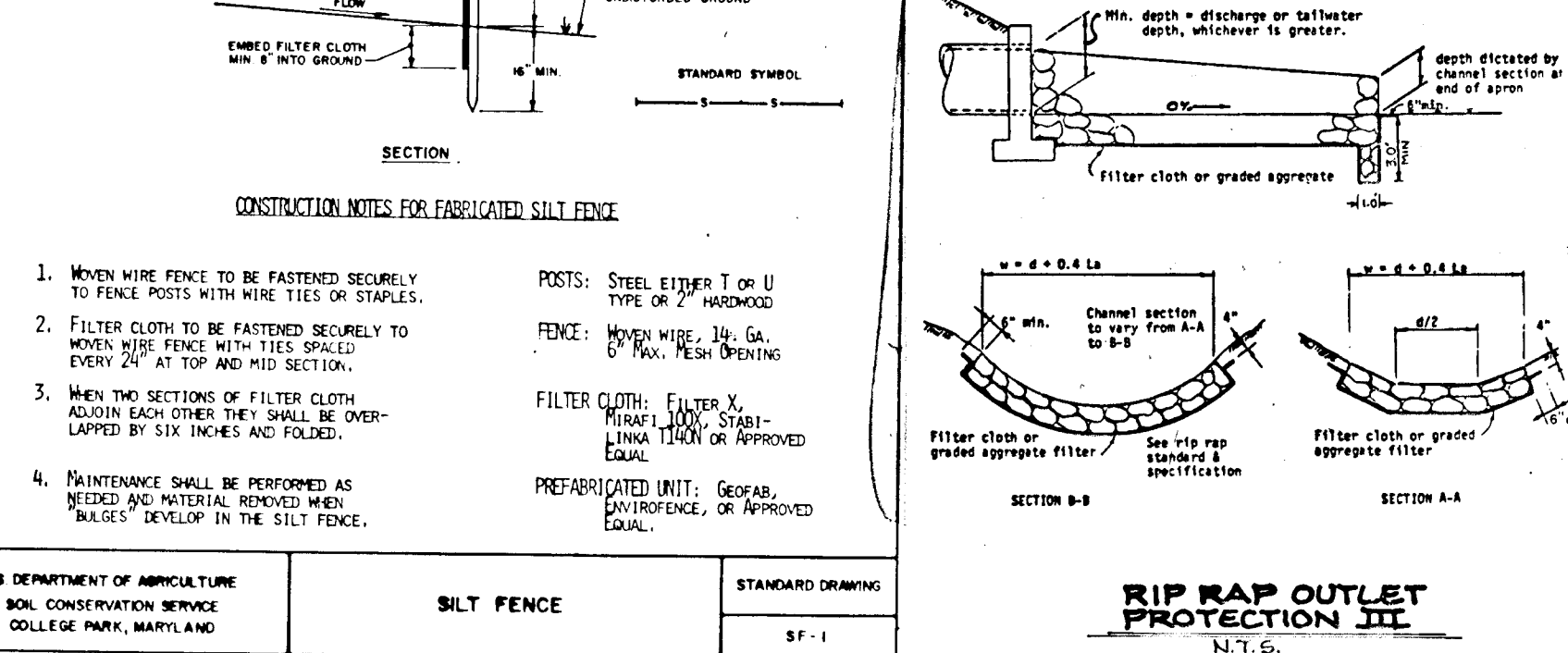
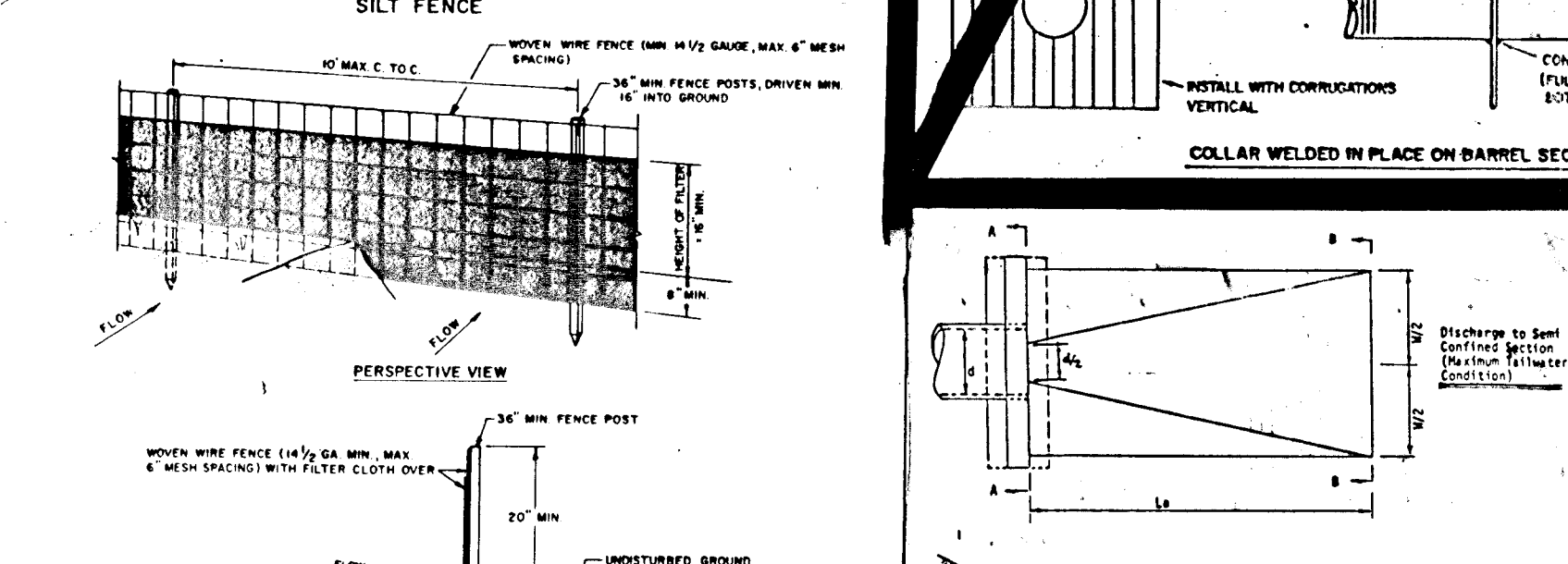
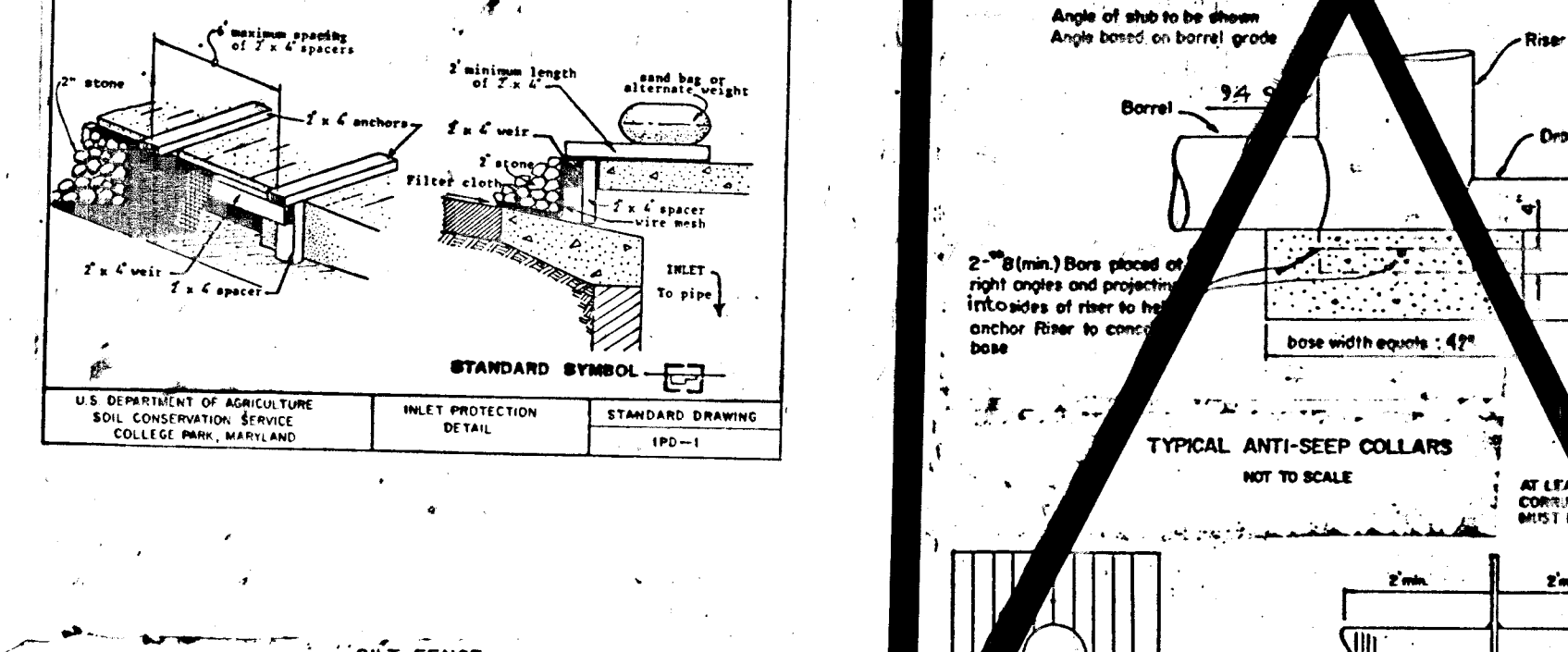
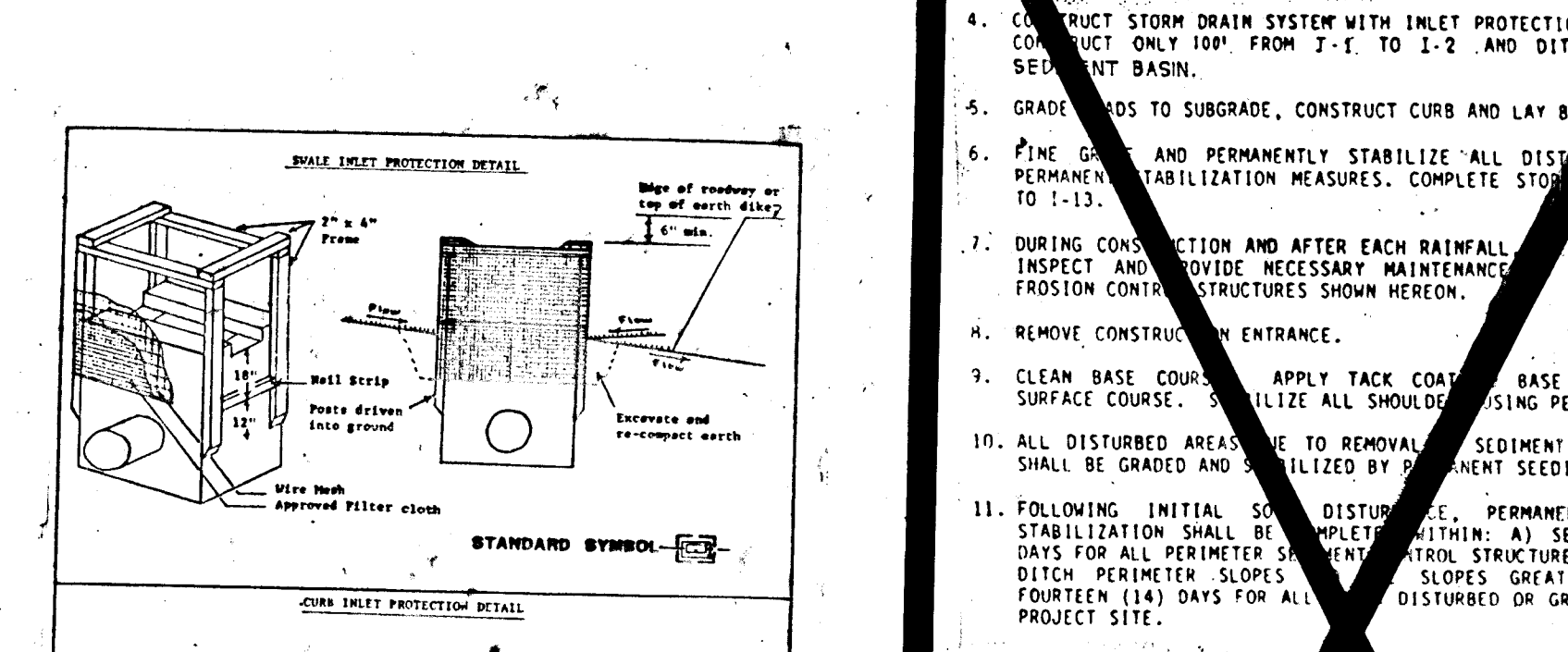
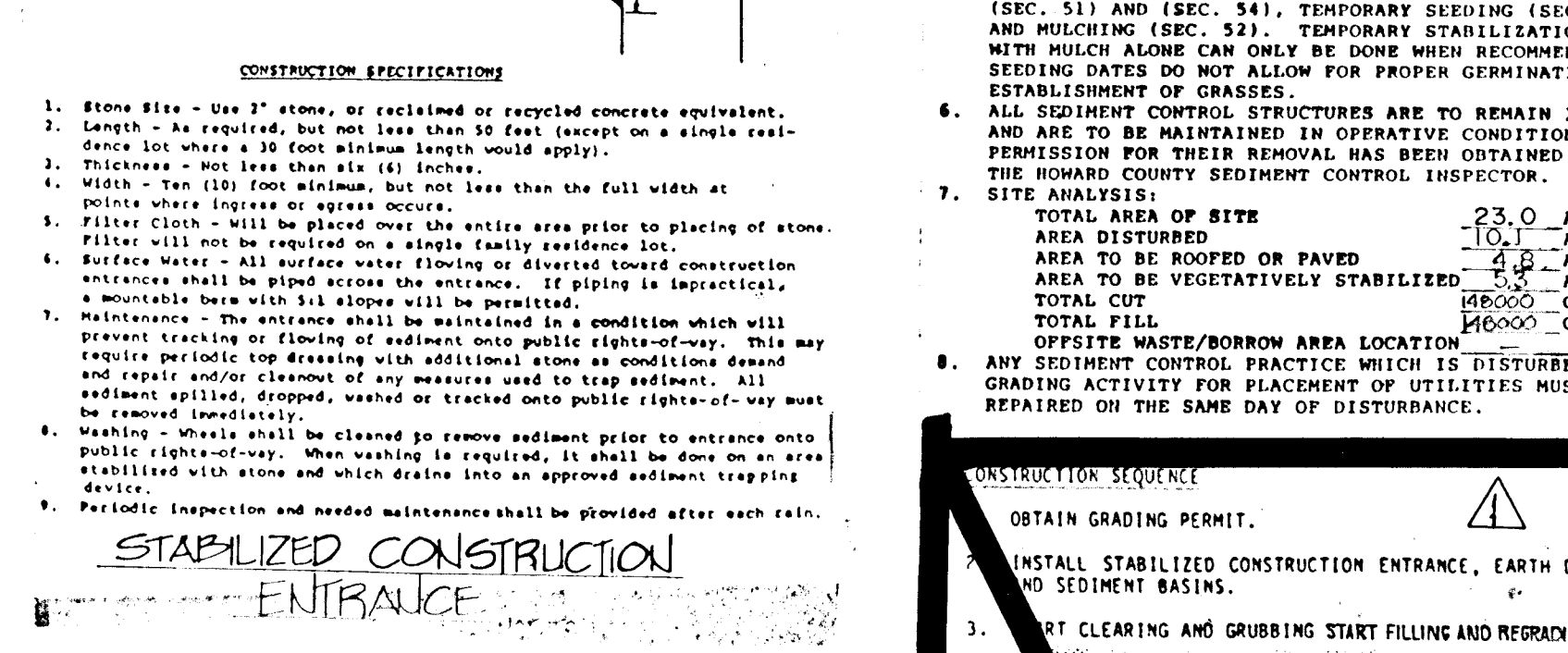
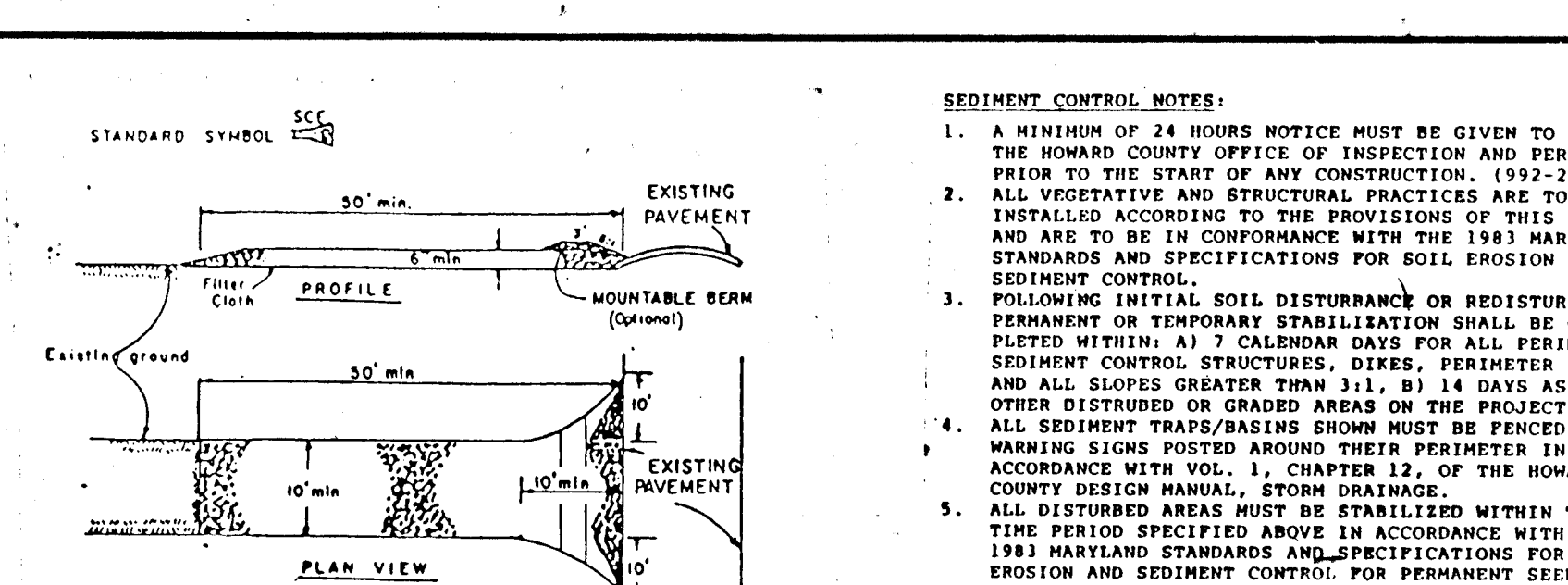
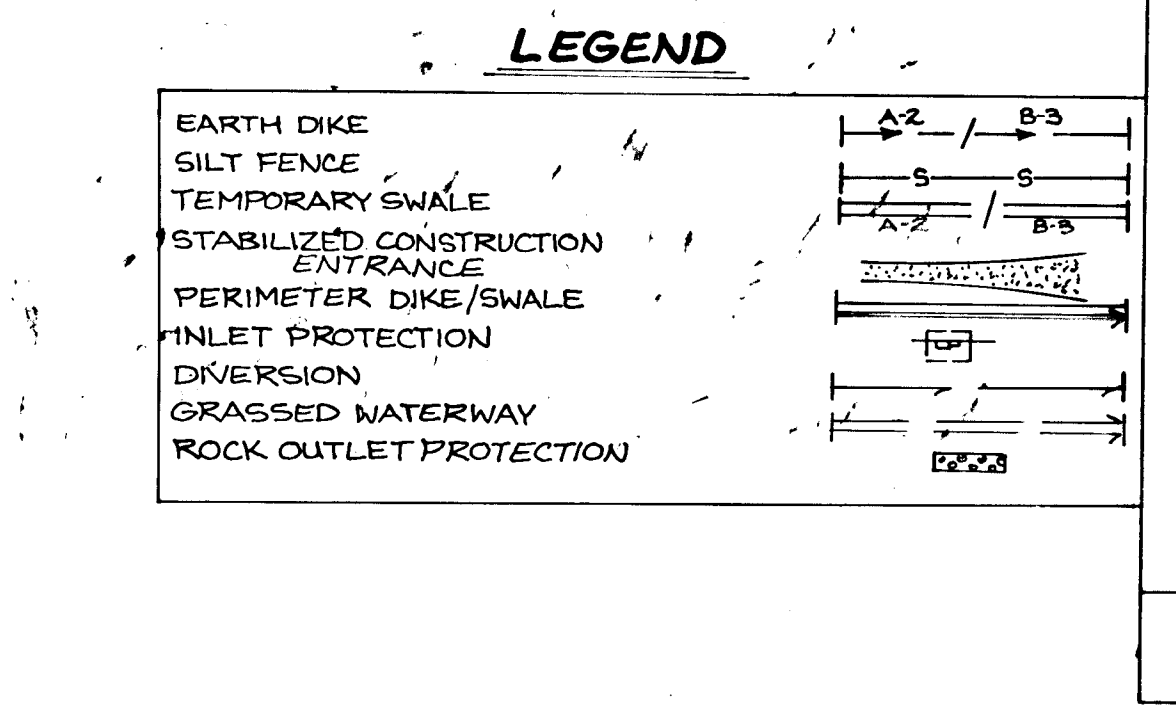
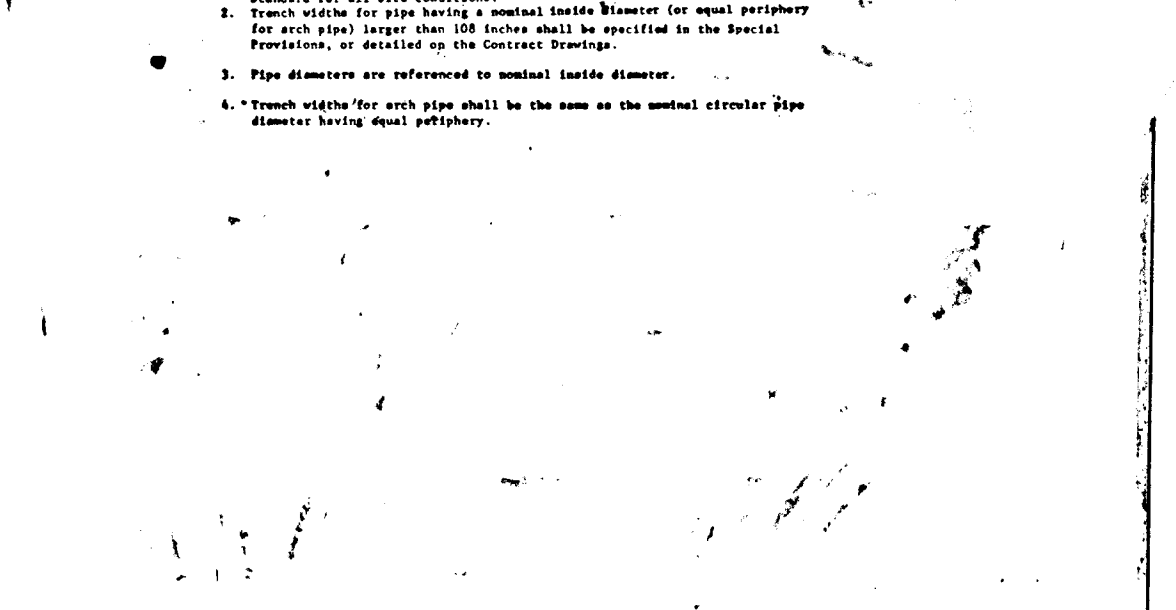
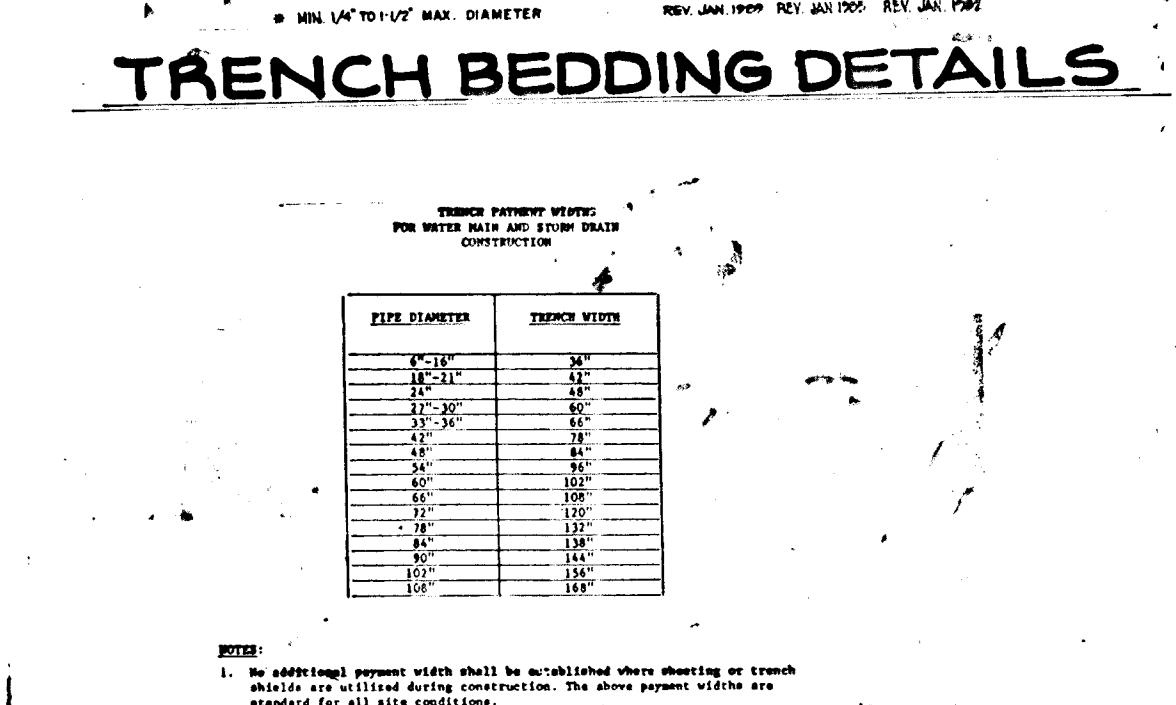
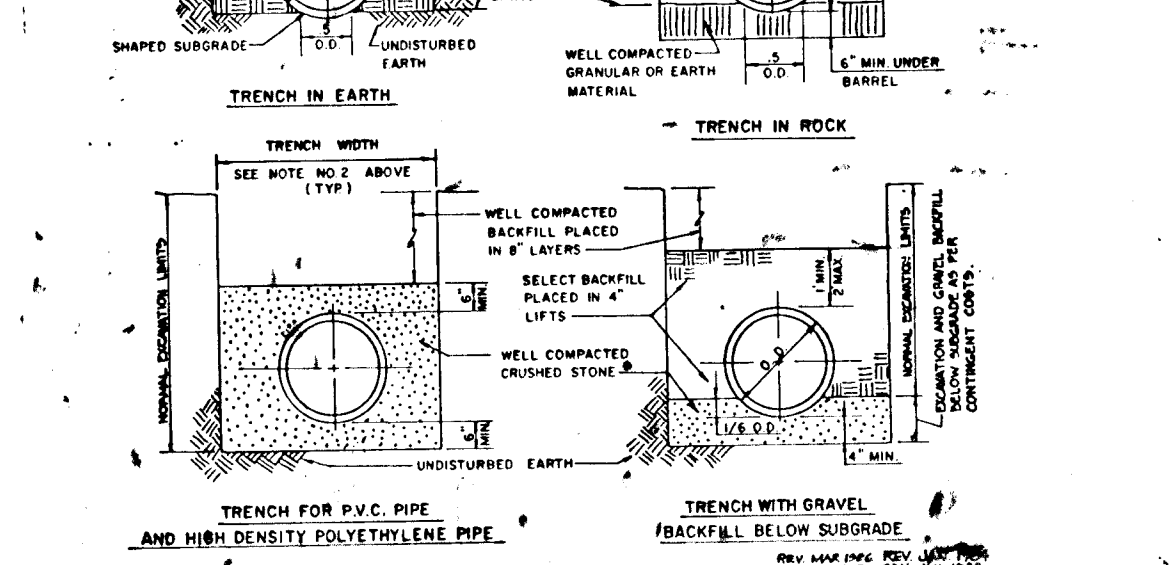
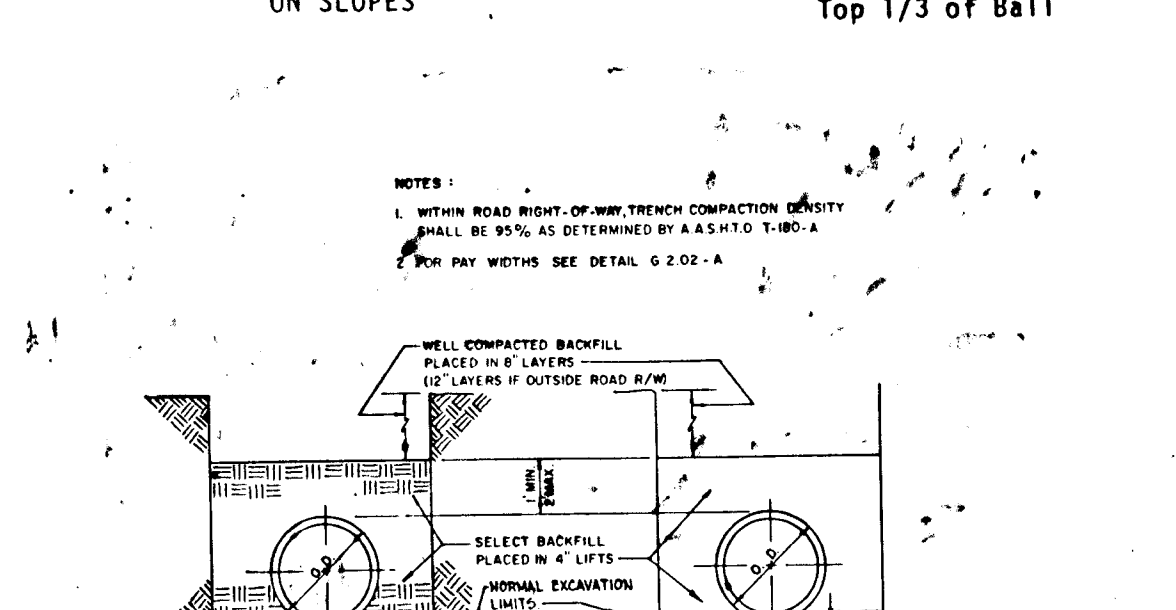
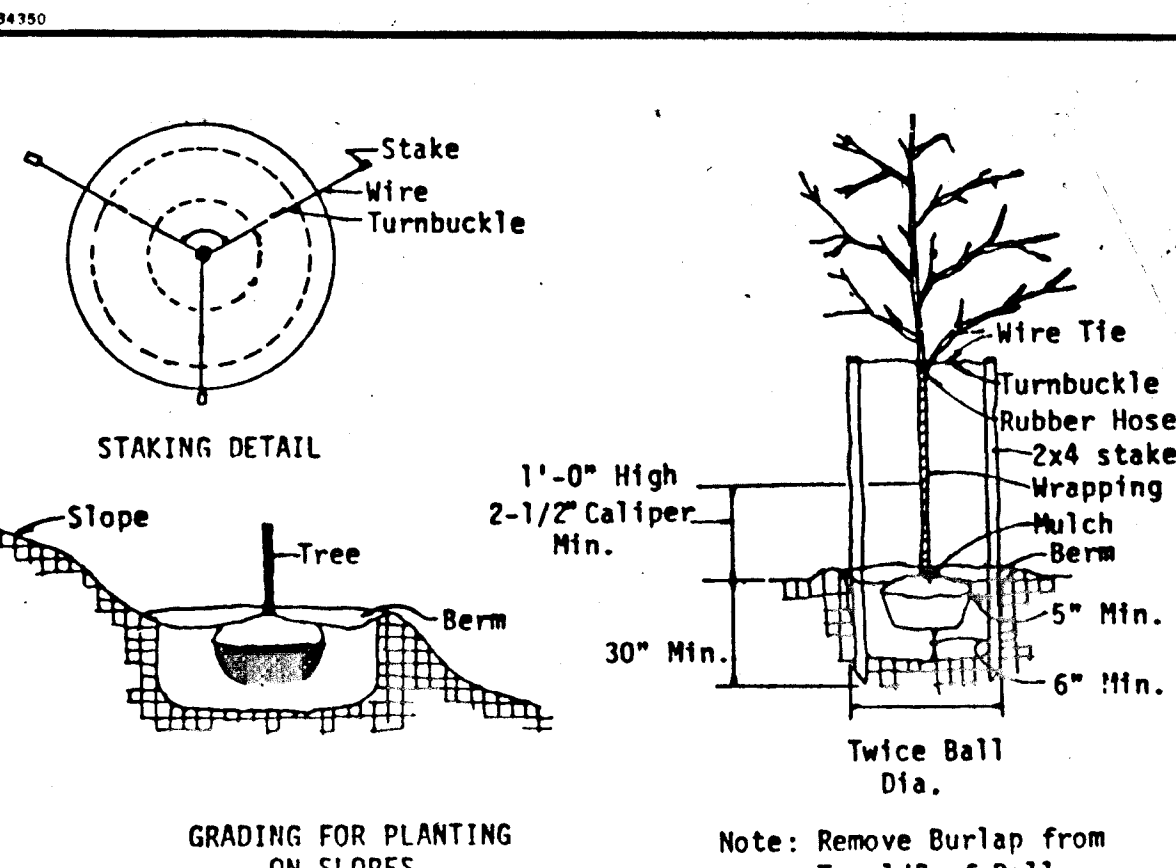
**OWNER & DEVELOPER**

MONTGOMERY MEADOWS GENERAL PARTNERSHIP  
9175 GUILFORD ROAD, SUITE 302  
COLUMBIA, MARYLAND 21046  
(301) 604-1552

LANDSCAPE PLAN, DRAINAGE AREA MAP AND GRADING & SEDIMENT CONTROL PLAN  
**MONTGOMERY MEADOWS**  
SECTION ONE AREA SEVEN  
LOT 352 TO LOT 406  
TAX MAP PARCEL BLOCK  
181 ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
SCALE: 1" = 50' MAY 6, 1988

1443





These plans have been reviewed for the Howard Soil Conservation District and meet the technical requirements for soil erosion control. SOIL CONSERVATION SERVICE DATE: 8/13/87

APPROVED HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

APPROVED HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

APPROVED HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

APPROVED HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

APPROVED HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

**ENGINEER'S CERTIFICATE**

I certify that this plan for soil erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions. This plan was prepared in accordance with the requirements of the Howard Soil Conservation District.

THOMAS W. WILEY, REG. MD. IND. ENG. DATE: 7-26-89

**DEVELOPER'S CERTIFICATE**

I hereby certify that all development and/or construction will be done according to these plans, and that any responsible personnel involved in the construction project will have Certificates of Attendance as a Department of Natural Resources Approved Training Program for the Control of Sediment and Erosion before beginning the project.

KENNETH G. MAUM, V.P., NVL ASSOC. GEN. PARTNER DATE: 7/21/89

**CONSTRUCTION SPECIFICATIONS FOR SEMI-PERMANENT SWM BASIN**

1. Materials - Reinforced concrete pipe shall have a rubber gasket joint and shall meet or exceed ASTM Specification C-201, approved equivalent is AASHTO Specification C-301.

2. Bedding - All reinforced concrete pipe conduits shall be laid in concrete bedding for their entire length. This bedding shall consist of 1/4" coarse sand or aggregate over the pipe and a 2" layer of bedding on top of the pipe at least 10% of its outside diameter with a minimum thickness of 3", or as shown on the drawings.

3. Laying pipe - Bell and spigot pipe shall be placed with the bell and gasket facing in the direction of flow. Joints shall be made in accordance with the manufacturer's instructions. After the joints are made, the pipe shall be placed so that all gasket areas are fully seated and so that all gaskets are properly seated in their intended location for use on the embankment and other designated areas.

4. Backfilling shall conform to structural backfill as shown above.

5. Other details (anti-seep collars, valves, etc.) shall be as shown on the drawings.

**CONSTRUCTION SPECIFICATIONS FOR SEMI-PERMANENT SWM BASIN**

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9. Backfilling shall conform to structural backfill as shown above.

10. Other details (anti-seep collars, valves, etc.) shall be as shown on the drawings.

**DESIGNED** MDB 5-6-88  
**DRAWN** MM 5-6-88  
**CHECKED** MDB 5-6-88  
**APPROVED**

DATE: 8-2-88  
BY: MMB

**REVISIONS**

DATE	BY	DESCRIPTION
8-2-88	MMB	DELETE SMALL PIPE SYMBOLS AND DETAILS, REVISE CONSTRUCTION SEQUENCE

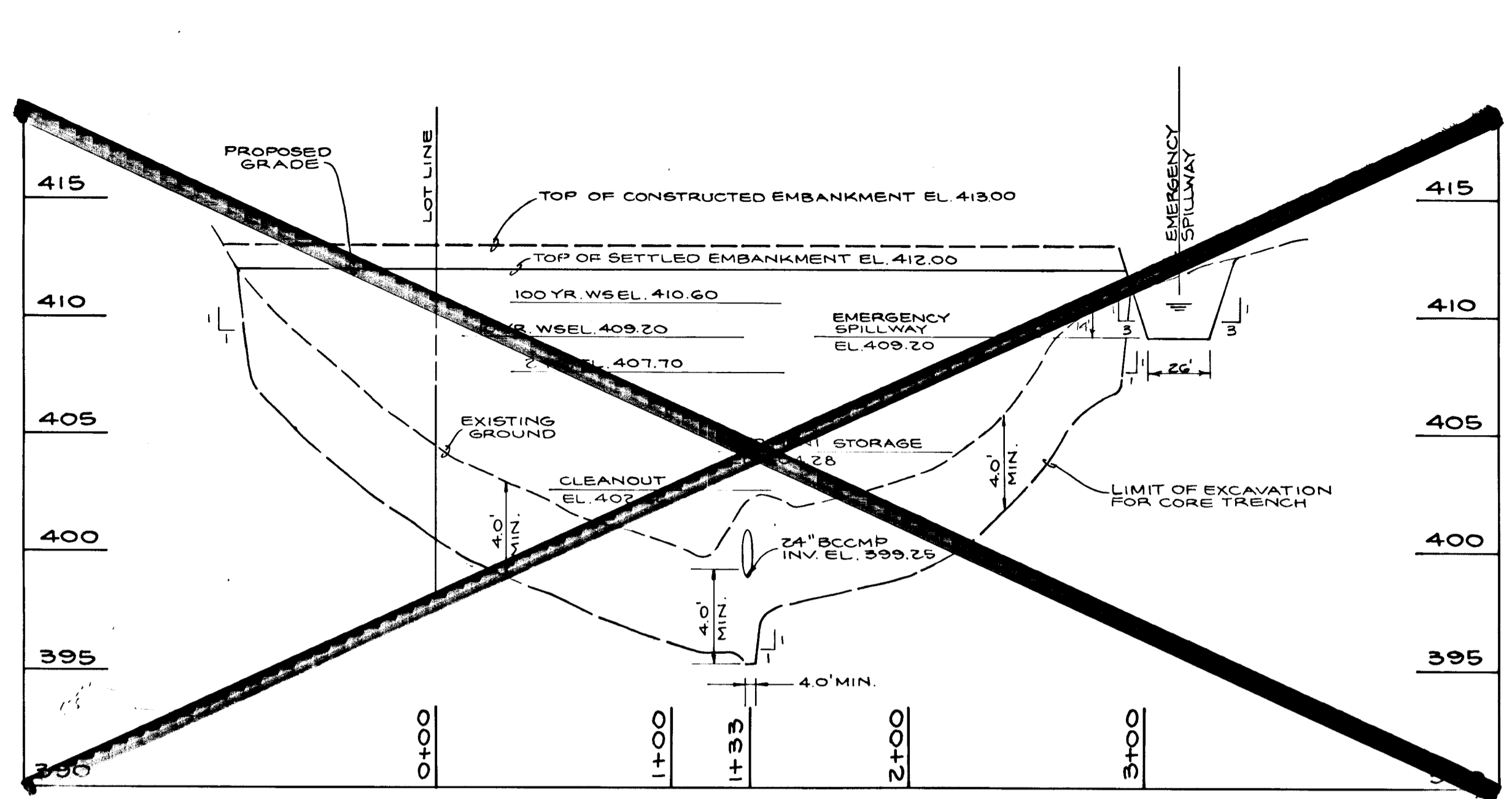
**Dewberry & Davis**  
ENGINEERS - ARCHITECTS - PLANNERS - SURVEYORS  
3300 N. RIDGE ROAD, SUITE 100  
ELLCOTT CITY, MD. 21043  
(301) 461-7478

**OWNER & DEVELOPER**  
MONTGOMERY MEADOWS GENERAL PARTNERSHIP  
9175 GULLFORD ROAD, SUITE 302  
COLUMBIA, MARYLAND 21046  
(301) 604-1552

**SEDIMENT CONTROL DETAILS & NOTES**  
**MONTGOMERY MEADOWS**  
SECTION ONE AREA SEVEN  
LOT 352 THRU LOT 406  
1ST ELECTION DISTRICT  
HOWARD COUNTY, MD.

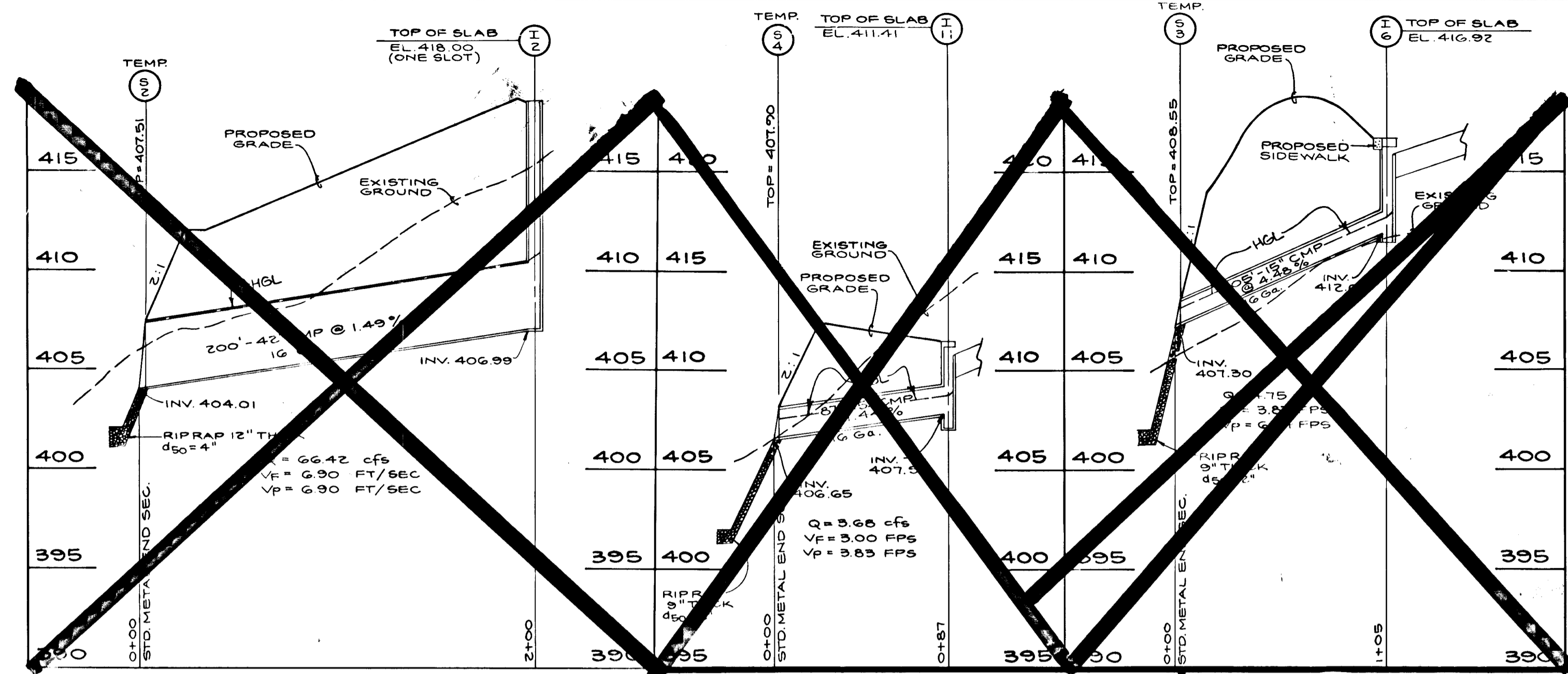
SCALE: As Shown  
CONTRACT NO. FILE NO. SHEET 9 OF 12  
F-89-47

1443



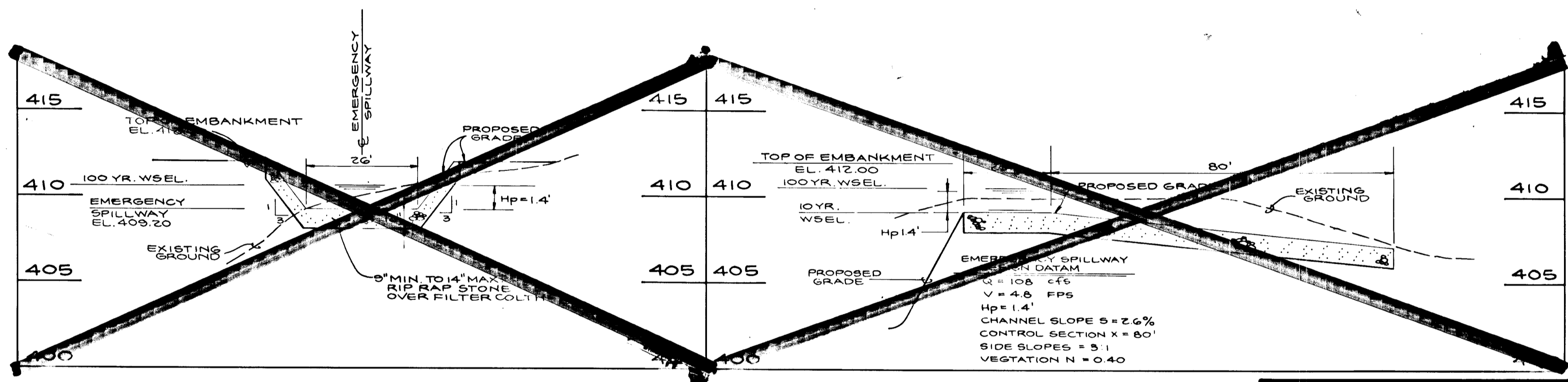
PROFILE ALONG C OF EMBANKMENT

SCALE: 1" = 50' HORIZ. 1" = 5' VERT.



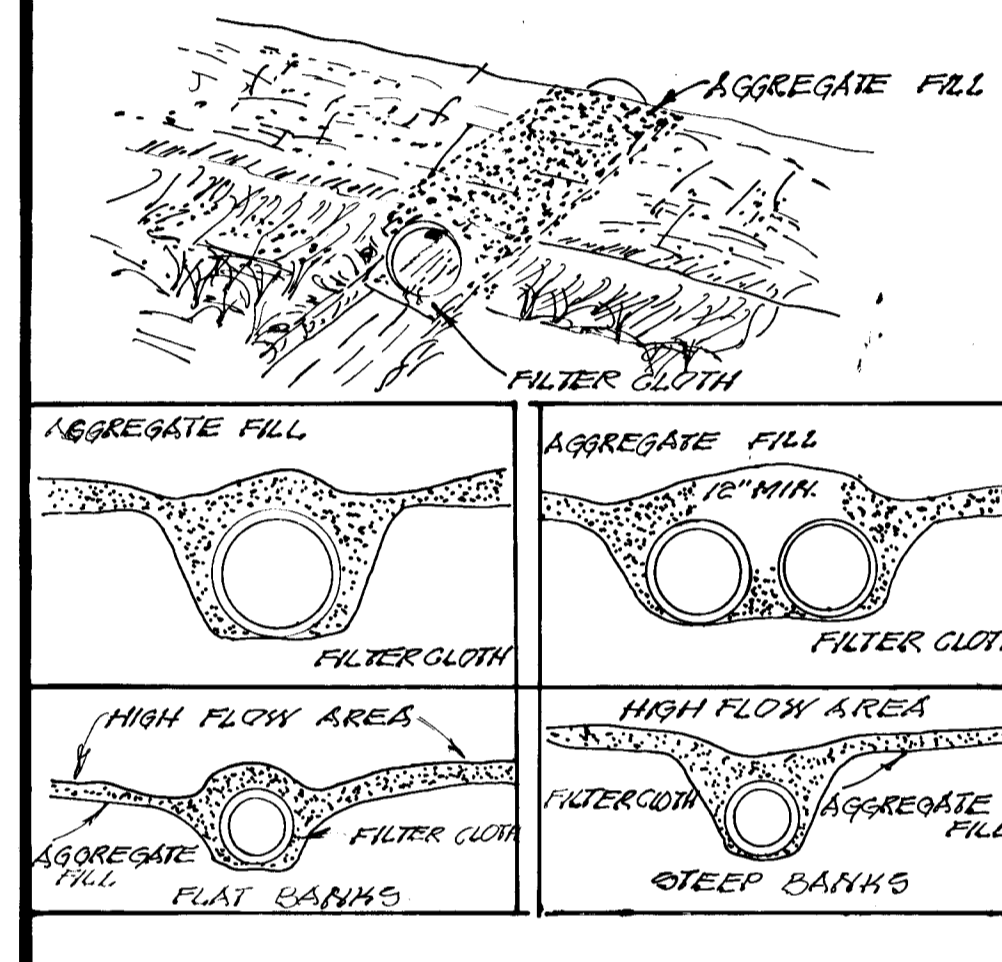
PROFILE ALONG C OF EMERGENCY SPILLWAY

SCALE: 1" = 20' HORIZ. 1" = 5' VERT.



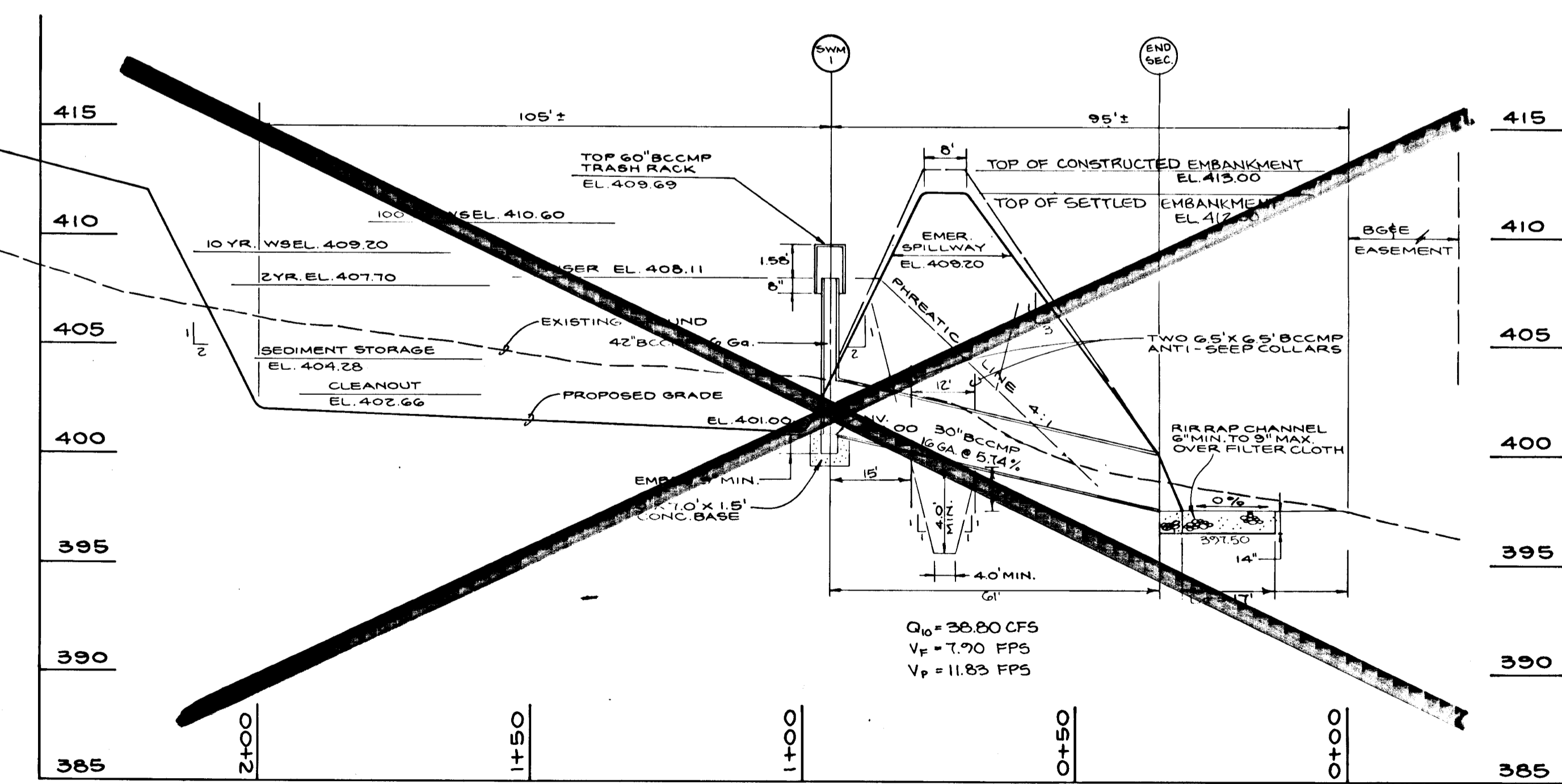
SECTION ALONG EMERGENCY SPILLWAY

SCALE: 1" = 20' HORIZ. 1" = 5' VERT.



CONSTRUCTION SPECIFICATIONS FOR SI-VI

- 1) THE AREA UNDER EMBANKMENT SHALL BE CLEARED, GRUBBED AND STRIPPED OF ANY VEGETATION AND ROOT MAT. THE POOL AREA SHALL BE CLEARED.
- 2) THE FILL MATERIAL FOR THE EMBANKMENT SHALL BE FREE OF ROOTS OR OTHER WOODY VEGETATION AS WELL AS OVER-SIZED STONES, ROCKS, ORGANIC MATERIAL OR OTHER OBJECTIONABLE MATERIAL. THE EMBANKMENT SHALL BE CONSTRUCTED BY TRAVELING WITH EQUIPMENT WHILE IT IS BEING CONSTRUCTED. MAXIMUM HEIGHT OF EMBANKMENT SHALL BE FIVE (5) FEET, MEASURED AT CENTERLINE OF EMBANKMENT.
- 3) ALL FILL SLOPES SHALL BE 2:1 OR FLATTER; CUT SLOPES 1:1 OR FLATTER.
- 4) ELEVATION OF THE TOP OF ANY Dike DIRECTING WATER INTO TRAP MUST EQUAL OR EXCEED THE HEIGHT OF EMBANKMENT.
- 5) STORAGE AREA PROVIDED SHALL BE FIGURED BY COMPUTING THE VOLUME AVAILABLE BEHIND THE OUTLET CHANNEL UP TO AN ELEVATION OF ONE (1) FOOT BELOW THE LEVEL WEIR CREST.
- 6) FILTER CLOTH SHALL BE PLACED OVER THE BOTTOM AND SIDES OF THE OUTLET CHANNEL PRIOR TO PLACEMENT OF STONE. SECTIONS OF FABRIC MUST OVERLAP AT LEAST ONE (1) FOOT WITH SECTION NEAREST THE ENTRANCE FOR TOP FABRIC SHALL BE EMBEDDED AT LEAST SIX (6) INCHES INTO EXISTING GROUND AT ENTRANCE OF OUTLET CHANNEL.
- 7) STONE USED IN THE OUTLET CHANNEL SHALL BE FOUR (4) TO EIGHT (8) INCHES (RIPRAP) TO PROVIDE A FILTERING EFFECT. A LAYER OF FILTER CLOTH SHALL BE EMBEDDED ONE (1) FOOT BACH INTO THE UPSTREAM FACE OF THE OUTLET STONE OR A ONE (1) FOOT THICK LAYER OF TWO (2) INCH OF FINER AGGREGATE SHALL BE PLACED ON THE UPSTREAM FACE OF THE OUTLET.
- 8) 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.
- 9) THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRED AS NEEDED.
- 10) CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION AND WATER POLLUTION ARE MINIMIZED.
- 11) THE STRUCTURE SHALL BE REMOVED AND THE AREA STABILIZED WHEN THE DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.
- 12) DRAINAGE AREA FOR THIS PRACTICE IS LIMITED TO 15 ACRES OR LESS.



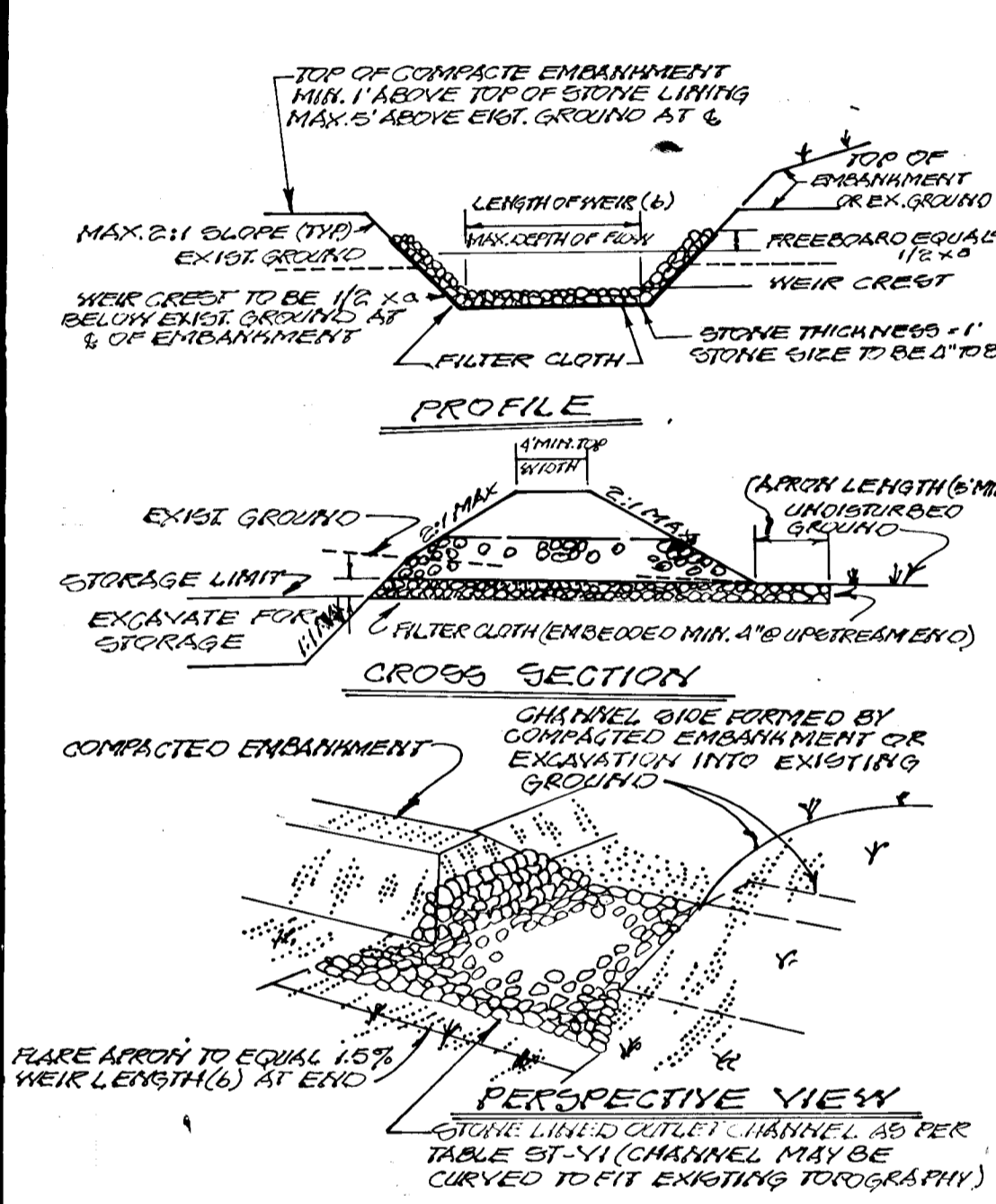
PROFILE ALONG C OF SEMI-PERMANENT SWM BASIN

SCALE: 1" = 20' HORIZ. 1" = 5' VERT.

TEMPORARY ACCESS GULVERT

CONSTRUCTION SEQUENCE

- 1) OBTAIN GRADING PERMIT.
- 2) INSTALL STABILIZED CONSTRUCTION ENTRANCE, EARTH DIKES, DIRT FENCE AND SEDIMENT BASIN.
- 3) GROUND GRADE SITE, CONSTRUCT TEMPORARY GULVERT AT CROSSING OF EXISTING DITCH ALONG HIGH MEADOW CT.
- 4) CONSTRUCT DRAIN AND WATER.
- 5) CONSTRUCT STORM DRAIN OUTFALL CHANNEL FROM DEEP RUN TO SI CHANNEL TO BE STABILIZED PRIOR TO CONNECTION WITH EXISTING DITCH.
- 6) CONSTRUCT STORM DRAIN SYSTEM BACK INLETS. INVERT SURFACE FLOW ALONG STORM DRAIN SYSTEM FROM 13-13 TO TRAP NUMBER 1.
- 7) FILL EXISTING DITCH. REMOVE ADJACENT EARTH DIKES.
- 8) CONSTRUCT CURB/GUTTER, EXCEPT FOR THE TEMPORARY 10 FT. OPENING ON THE HEATHERLAND AND HIGH MEADOW CT. GULVERT BAGS. SEE SHEET 7 AND SHEET 12 FOR THE 10 FT. TRAP LOCATIONS.
- 9) CONSTRUCT BASE PAVEMENT. CONSTRUCT TEMPORARY 10 FT. X 10 FT. ASPHALT DRAINAGE CHANNELS DOWNSTREAM OF THE 10 FT. CURB OPENING ON HEATHERLAND AND HIGH MEADOW COURT.
- 10) FINE GRADE RIGHT-OF-WAY, CONSTRUCT PAVEMENT SURFACE COURSE.
- 11) PERMANENTLY STABILIZE DISTURBED AREA.
- 12) UPON APPROVAL OF THE INSPECTOR, REMOVE SEDIMENT CONTROL MEASURES.
- 13) FOLLOWING INITIAL SOIL DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN:
  - (a) SEVEN (7) CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, SHALES, DITCHES, PERIMETER SLOPES, AND ALL SLOPES GREATER THAN 3:1.
  - (b) FOURTEEN (14) CALENDAR DAYS FOR ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.



RIPRAP OUTLET SEDIMENT TRAP

APPROVED HOWARD COUNTY DEPT. OF PLANNING AND ZONING

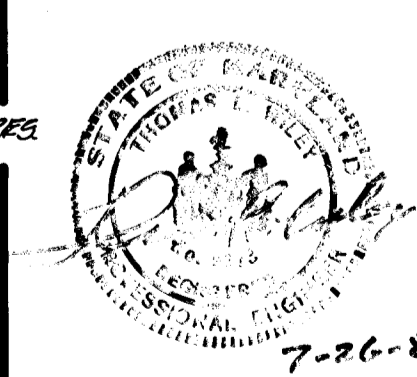
James J. Langley 7/15/89  
DIRECTOR, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

APPROVED HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Charles J. Ryan 8/10/89  
CHIEF, LAND DEVELOPMENT DIVISION

Charles L. Ingersoll 8-9-89  
CHIEF, BUREAU OF HIGHWAYS

William E. Ryan 8-11-89  
CHIEF, BUREAU OF ENGINEERING



DESIGNED	DATE	BY	DESCRIPTION
DRR/OET			
DRAWN	6/20/89	MRS. W.D.G.	DELETE SEMI-PERMANENT SWM BASIN/CHANNELS DELETE TEMPORARY SEDIMENT CONTROL STRUCTURES ADD CONSTRUCTION SEQUENCE
CHECKED			
APPROVED			

### Dewberry & Davis

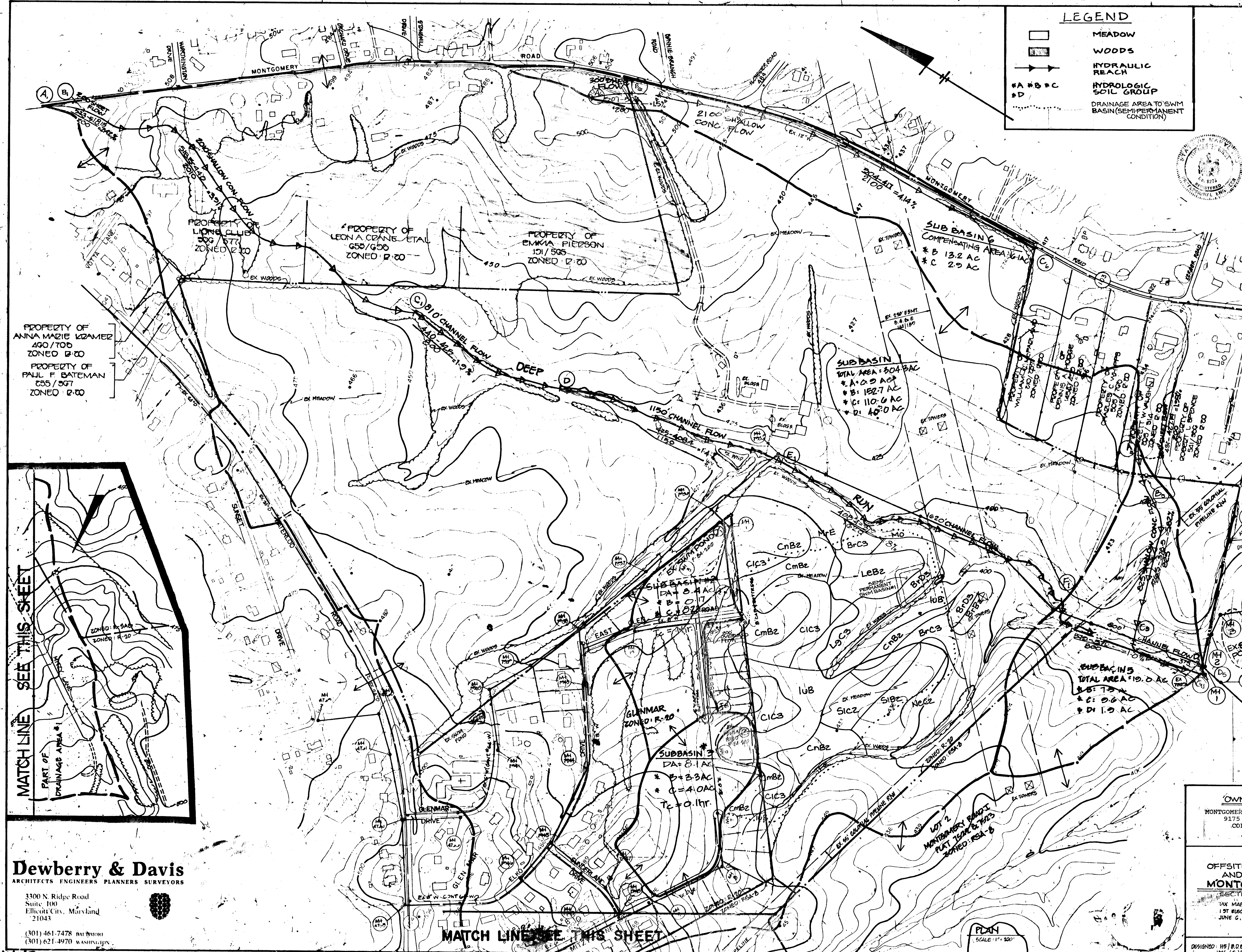
ENGINEERS — ARCHITECTS — PLANNERS — SURVEYORS  
3300 N. RIDGE ROAD, SUITE 100  
ELLICOTT CITY, MD. 21043  
(301) 461-7478

MONTGOMERY MEADOWS GENERAL PARTNERSHIP  
9175 GUILFORD ROAD, SUITE 302  
COLUMBIA, MARYLAND 21046  
(301) 604-1552

SEDIMENT CONTROL DETAILS  
**MONTGOMERY MEADOWS**  
SECTION ONE, AREA SEVEN  
LOTS 352 THRU LOTS 406  
TAX MAP 31 PARCEL 423  
1ST. ELECTION DISTRICT HOWARD CO., MARYLAND

SCALE AS SHOWN CONTRACT NO. FILE NO. SHEET 10 OF 12

1443



**LEGEND**

[Symbol]	MEADOW
[Symbol]	WOODS
[Symbol]	HYDRAULIC REACH
[Symbol]	HYDROLOGIC SOIL GROUP
[Symbol]	DRAINAGE AREA TO SWM BASIN (SEMI-PERMANENT CONDITION)

**DEVELOPER'S CERTIFICATE**  
 I/We certify that all development and/or construction will be done according to these plans, and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of Natural Resources Approved Training Program for the Control of Sediment and Erosion before beginning the project. I will provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion. I also authorize periodic on-site inspections by the Howard Soil Conservation District.  
 J. S. M... 7/2/89  
 KENNETH G. MALM, VP. NRV ASSOC. (GENERAL PARTNER)  
 Date

**ENGINEER'S CERTIFICATE**  
 I certify that this plan for pond construction, erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions. This plan was prepared in accordance with the requirements of the Howard Soil Conservation District. I have notified the developer that he must provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion.  
 Thomas L. Wiley 7-26-89  
 THOMAS L. WILEY, MD. REG. NO. 9278  
 Date

These plans have been reviewed for the Howard Soil Conservation District and meet the technical requirements for small pond construction, soil erosion and sediment control.  
 Robert W. Ziehl 8/18/89  
 ROBERT W. ZIEHL, MD. REG. NO. 9278  
 Howard Soil Conservation District  
 Date

APPROVED HOWARD COUNTY DEPT. OF PLANNING AND ZONING  
 Mark J. Taylor 9/13/89  
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT  
 DATE

APPROVED HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
 Paul D. Egan 8/10/89  
 CHIEF, LAND DEVELOPMENT DIVISION  
 DATE

Robert W. Ziehl 8/18/89  
 CHIEF, BUREAU OF HIGHWAYS  
 DATE

Eric S. Ryan 8-11-89  
 CHIEF, BUREAU OF ENGINEERING  
 DATE

\*NOTE: HYDROLOGIC SOIL GROUPS ARE INDICATED AS A, B, C, D  
 SEE SHEET 3 OF 15 FOR SOILS MAP

**SOILS LEGEND**

SYMBOL	NAME
BrC3	BRANDYWINE LOAM, 8 TO 15% SLOPES, SEVERELY ERODED
BrD3	BRANDYWINE LOAM, 15 TO 25% SLOPES, SEVERELY ERODED
CiC3	CHILLUM GRAVELY LOAM, 5 TO 10% SLOPES, SEVERELY ERODED
CnBz	CHILLUM SILT LOAM, 1 TO 5% SLOPES, MODERATELY ERODED
CnBz	CHILLUM-FAIRFAX LOAMS, 1 TO 5% SLOPES, MODERATELY ERODED
Fa	FALLSINGTON LOAM
LuB	LUKA LOAM, LOCAL ALLUVIUM, 1 TO 5% SLOPES
LeBz	LEGORE SILT LOAM, 7 TO 8% SLOPES, MODERATELY ERODED
LcC3	LEGORE SILTY CLAY LOAM, 8 TO 15% SLOPES, SEVERELY ERODED
Mo	MIXED ALLUVIAL LAND
Nez	MONTALTO AND RELAY SOILS, 15 TO 45% SLOPES
NcC2	NORTHSTAR SILT LOAM, 8 TO 15% SLOPES, MODERATELY ERODED
Sibz	SASSAFRASS LOAM, 1 TO 5% SLOPES, MODERATELY ERODED
Sic2	SASSAFRASS LOAM, 5 TO 10% SLOPES, MODERATELY ERODED

**OWNER AND DEVELOPER**  
 MONTGOMERY MEADOWS GENERAL PARTNERSHIP  
 9175 GUILFORD ROAD, SUITE 302  
 COLUMBIA, MARYLAND 21046  
 (301) 604-1552

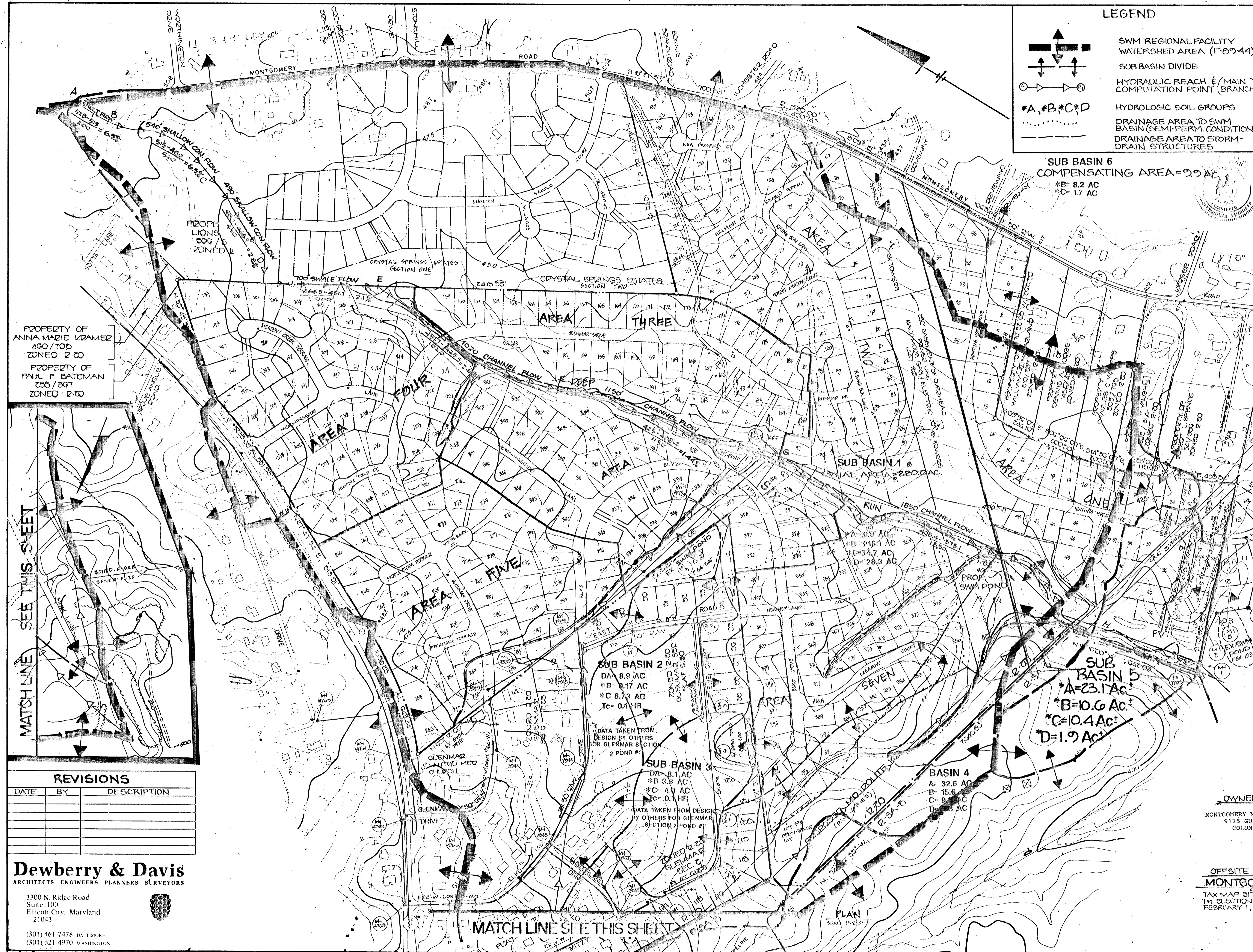
**OFFSITE DRAINAGE AREA MAP (EXISTING AND SEMI-PERMANENT CONDITION)**  
**MONTGOMERY MEADOWS**  
 SECTION ONE AREA SEVEN  
 TAX MAP: 91 LOT B52 TO L10456 PARCEL: 423  
 1 ST ELECTION DISTRICT HOWARD COUNTY, MD.  
 JUNE 6, 1986 SCALE: 1"=200'  
 SHEET 11 OF 12

DESIGNED: HJ/B.D.B. DRAWN: WLF/J.M.P. CHECKED: B.D.B. APPROVED: T.L.W.  
 DATE: 8/18/89 DATE: 8/18/89

**Dewberry & Davis**  
 ARCHITECTS ENGINEERS PLANNERS SURVEYORS  
 3300 N. Ridge Road  
 Suite 100  
 Ellicott City, Maryland  
 21043  
 (301) 461-7478 BALTIMORE  
 (301) 621-4970 WASHINGTON

1443

F-89-47



**LEGEND**

- SWM REGIONAL FACILITY WATERSHED AREA (F-89-44)
- SUBBASIN DIVIDE
- HYDRAULIC REACH & MAIN COMPUTATION POINT (BRANCH)
- HYDROLOGIC SOIL GROUPS
- DRAINAGE AREA TO SWM BASIN (SEMI-PERM. CONDITION)
- DRAINAGE AREA TO STORM-DRAIN STRUCTURES

**SUB BASIN 6**  
 COMPENSATING AREA = 9.9 AC  
 \*B= 8.2 AC  
 \*C= 1.7 AC

**DEVELOPER'S CERTIFICATE**  
 "I/We certify that all development and/or construction will be done according to these plans, and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of Natural Resources Approved Training Program for the Control of Sediment and Erosion before beginning the project. I will provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion. I also authorize periodic on-site inspections by the Howard Soil Conservation District."  
 Thomas L. Willey, M.S., P.E., M.A.S.S.C. (Professional Engineer)

**ENGINEER'S CERTIFICATE**  
 "I certify that this plan for pond construction, erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions. This plan was prepared in accordance with the requirements of the Howard Soil Conservation District. I have notified the developer that he must provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion."  
 Thomas L. Willey, M.S., P.E., M.A.S.S.C. (Professional Engineer)

These plans have been reviewed for the Howard Soil Conservation District and meet the technical requirements for small pond construction, soil erosion and sediment control.  
 [Signature] 8/10/89  
 U.S. Soil Conservation Service, District

These plans for small pond construction, soil erosion and sediment control meet the requirements of the Howard Soil Conservation District.  
 [Signature] 8/10/89  
 Howard Soil Conservation District, District

APPROVED HOWARD COUNTY DEPT. OF PLANNING AND ZONING  
 [Signature] 8/10/89  
 CHIEF, DIVISION OF LAND USE, PLANNING AND COMMUNITY PLANNING

APPROVED HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
 [Signature] 8/10/89  
 [Signature] 8/11/89  
 CHIEF, BUREAU OF ENGINEERS

PROPERTY OF ANNA MARIE KRAMER 490/TOD ZONED R-20  
 PROPERTY OF PAUL F. BATEMAN 355/397 ZONED R-20

MATCH LINE SEE THIS SHEET

**REVISIONS**

DATE	BY	DESCRIPTION

**Dewberry & Davis**  
 ARCHITECTS ENGINEERS PLANNERS SURVEYORS  
 3300 N. Ridge Road  
 Suite 100  
 Ellicott City, Maryland 21043  
 (301) 461-7478 BALTIMORE  
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**DRAINAGE AREA TABULATION**  
 ALL AREAS ZONED R-20

INLET	AREA (AC)	C	PI
I-1	0.83	0.39	25%
I-2	1.10	0.39	25%
I-3	1.00	0.39	25%
I-4	0.68	0.58	51%
I-5	5.17	0.44	32%
I-6	1.78	0.46	35%
I-11	1.30	0.48	38%
I-21	0.97	0.56	48%
I-22	2.55	0.44	32%
I-23	0.67	0.48	37%
I-24	0.65	0.57	47%

**OWNED AND DEVELOPER**  
 MONTGOMERY MEADOWS GENERAL PARTNERSHIP  
 9175 GUILFORD ROAD, SUITE 302  
 COLUMBIA, MARYLAND 21046  
 (301) 604-1552

**OFFSITE DRAINAGE AREA MAP (PROPOSED CONDITION)**  
**MONTGOMERY MEADOWS**  
 SECTION 1 AREA  
 TAX MAP B/L LOT 952 TO LOT 406 PARCEL 400  
 141 ELECTION DIST. HOWARD COUNTY, MD.  
 FEBRUARY 1, 1989 SCALE: 1"=200'  
 SHEET 12 OF 12