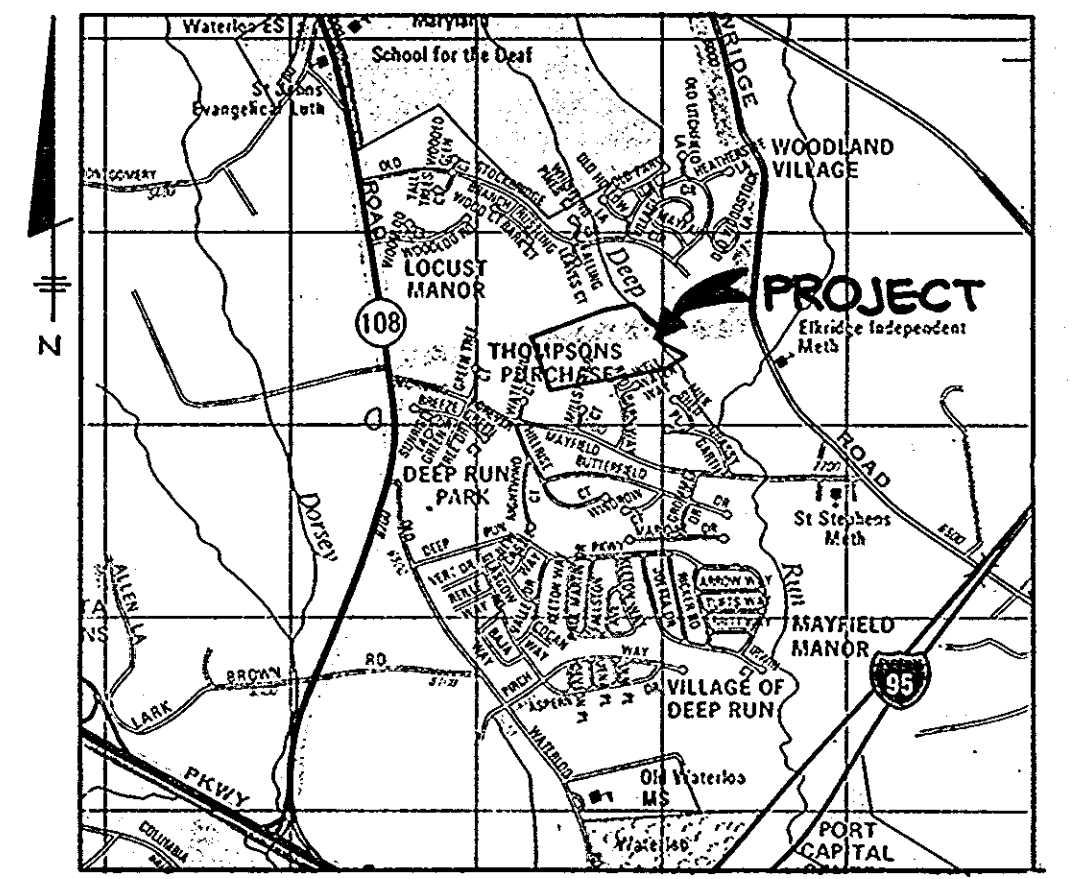


SITE DEVELOPMENT PLAN

MAYFIELD WOODS MIDDLE SCHOOL

1st ELECTION DISTRICT HOWARD COUNTY, MARYLAND



VICINITY MAP
SCALE: 1"=2000'

SHEET INDEX	
NO.	DESCRIPTION
1	TITLE SHEET
2	SITE DEVELOPMENT PLAN
3	FINE GRADING
4	STORM DRAIN, WATER & SEWER PROFILES AND DETAILS
5	GRADING, SEDIMENT CONTROL DRAINAGE AREA MAP & SOILS MAP
6	S.W.M. PROFILES & DETAILS
7	DETAIL SHEET
8	LANDSCAPE PLAN
9	DETAIL SHEET

GENERAL NOTES

- ALL WATER LINES SHALL BE CONSTRUCTED A MINIMUM OF 42" COVER BELOW FINISHED GRADE.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, I.E., STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION, 1989 AMENDMENTS.
- APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN FROM BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO CONTRACTOR'S OPERATION SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL TEST PIT EXISTING UTILITIES AT LEAST FIVE (5) DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS TO VERIFY THEIR LOCATION AND ELEVATION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF LOCATION OF UTILITIES IS OTHER THAN SHOWN.
- CONTRACTOR TO NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS:
 MISS UTILITY 1-800-257-7777
 CAP TELEPHONE COMPANY 725-5976
 HOWARD COUNTY BUREAU OF UTILITIES 992-2366
 ATEC CABLE LOCATION DIVISION 393-3553
 BALTIMORE GAS & ELECTRIC COMPANY 685-0123
 STATE HIGHWAY ADMINISTRATION 531-5533
 HOWARD COUNTY CONSTRUCTION INSPECTION SURVEY DIVISION (24 HOURS NOTICE PRIOR TO COMMENCEMENT OF WORK) 792-7272
- ALL INLETS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOWARD COUNTY STANDARDS.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
- THE CONTRACTOR SHALL PROVIDE A JOINT IN ALL SEWER MAINS WITHIN 2'-0" OF EXTERIOR MANHOLE WALLS.
- PROFILE STATIONS SHALL BE ADJUSTED AS NECESSARY TO CONFORM TO PLAN DIMENSIONS.
- NO PIPE SHALL BE LAID UNTIL LINES OF EXCAVATION HAVE BEEN BROUGHT TO SUBGRADE.
- TOPO BOUNDARY TAKEN FROM SURVEY ACCOMPLISHED BY M&H DEVELOPMENT ENGINEERS, INC. DATED MARCH 1981
- ALL PLAN DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
- ALL STORM DRAIN PIPE BEDDING SHALL BE AS SHOWN IN DETAIL C2-01 (TRENCH IN ROCK OR TRENCH IN EARTH AS DETERMINED BY FIELD CONDITIONS) IN VOL. IV OF HOWARD COUNTY DESIGN MANUAL UNLESS OTHERWISE DIRECTED BY THE ENGINEER OR AS SHOWN ON THE DRAWINGS.
- THE DEVELOPER IS RESPONSIBLE FOR THE ACQUISITION OF ALL EASEMENTS, RIGHTS AND/OR RIGHTS-OF-WAY THAT MAY BE REQUIRED FOR THE SEDIMENT AND EROSION CONTROL PRACTICES, STORM WATER MANAGEMENT PRACTICES AND THE DISCHARGE OF STORM WATER ONTO OR ACROSS ADJACENT OR DOWNSTREAM PROPERTIES INCLUDED IN THIS PLAN. HE IS ALSO RESPONSIBLE FOR THE ACQUISITION OF ALL EASEMENTS, RIGHTS AND/OR WORK ON ADJACENT PROPERTIES INCLUDED IN THIS PLAN.
- THE OWNER SHALL PROVIDE A SEPARATE AND INDEPENDENT SEWER CONNECTION FOR EACH TENANT OR OCCUPANT OF ANY BUILDING, SHOWN ON THIS SITE DEVELOPMENT PLAN, WHO WILL DISCHARGE NON-DOMESTIC WASTE TO THE PUBLIC SEWERAGE SYSTEM IF THIS WASTE IS REGULATED UNDER SECTION 18.122A OF THE HOWARD COUNTY CODE. EACH SEPARATE AND INDEPENDENT SEWER CONNECTION SHALL INCLUDE A STANDARD MANHOLE AND OTHER WASTE PRETREATMENT DEVICES AS REQUIRED AND APPROVED BY HOWARD COUNTY. WASTE LINES ON THE INTERIOR OF THE BUILDING SHALL BE DESIGNED, CONSTRUCTED OR MODIFIED SUCH THAT NON-DOMESTIC WASTE WILL BE DISCHARGED TO THE SEPARATE AND INDEPENDENT SEWER CONNECTION. NO TENANT OR OCCUPANT OF ANY BUILDING SHOWN ON THIS SITE DEVELOPMENT PLAN SHALL DISCHARGE REGULATED NON-DOMESTIC WASTE TO THE PUBLIC SEWERAGE SYSTEM PRIOR TO INSTALLATION OF THE SEPARATE AND INDEPENDENT SEWER CONNECTION AND RELATED INTERIOR WASTE LINES. THE ABOVE REQUIREMENTS SHALL APPLY TO ALL INITIAL AND FUTURE OCCUPANTS OR TENANTS.
- 100 YEAR FLOODPLAIN DELINEATION OF DEEP RUN CREEK PROVIDED BY HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS FLOODPLAIN STUDY AND FROM RECORD PLAT # 59251 OF WOODLAND PARK SECTION 2 AREA 3.
- WF-80-150 WAS APPROVED AUGUST 18, 1980. IT VIOLATES THE REQUIREMENT OF SECTION 10.11G, (C) OF THE HQ CO SUBDIVISION AND LAND DEVELOPMENT REGULATIONS AND PERMITS GRADING WITHIN THE 75' WIDE STREAM BUFFER TO ACCOMMODATE THE PROPOSED PLAYING FIELDS.
- WETLANDS DELINEATION PROVIDED BY ATEC ASSOCIATES DATED JANUARY 25, 1989.

SITE TABULATION

TOTAL AREA OF PARCEL	27.27 Ac.
PRESENT ZONING	R-SC (26.03Ac. 95.5%) R-SA-8 (1.24 Ac. 4.5%)
PROPOSED USE	PUBLIC MIDDLE SCHOOL
PROPOSED BUILDING COVERAGE	1.7 Ac (6.2% OF THE SITE)
PROPOSED TOTAL BUILDING SQUARE FOOTAGE	1ST FLOOR 73,524 SQ. FT. 2ND FLOOR 27,370 SQ. FT. TOTAL 100,894 SQ. FT.
NUMBER OF FULL TIME EMPLOYEES	73.5
PARKING: SPACES REQUIRED @ 7 SP/10 EMPLOYEES	52
SPACES PROVIDED	98
HANDICAP SPACES REQUIRED	4
HANDICAP SPACES PROVIDED	4
OPEN SPACE REQUIRED	R-SC 5.21 Ac (20%) R-SA-8 .31 Ac (25%) TOTAL 5.52 Ac
OPEN SPACE PROVIDED	R-SC 20.59 Ac (79%) R-SA-8 1.24 Ac (100%) TOTAL 21.83 Ac (80%)
AREA OF PARKING	27,300 SQ. FT.
LANDSCAPED ISLANDS REQUIRED	1365 SQ. FT. (5% OF PARKING AREA)
LANDSCAPED ISLANDS PROVIDED	2760 SQ. FT. (10.1% OF PARKING AREA)

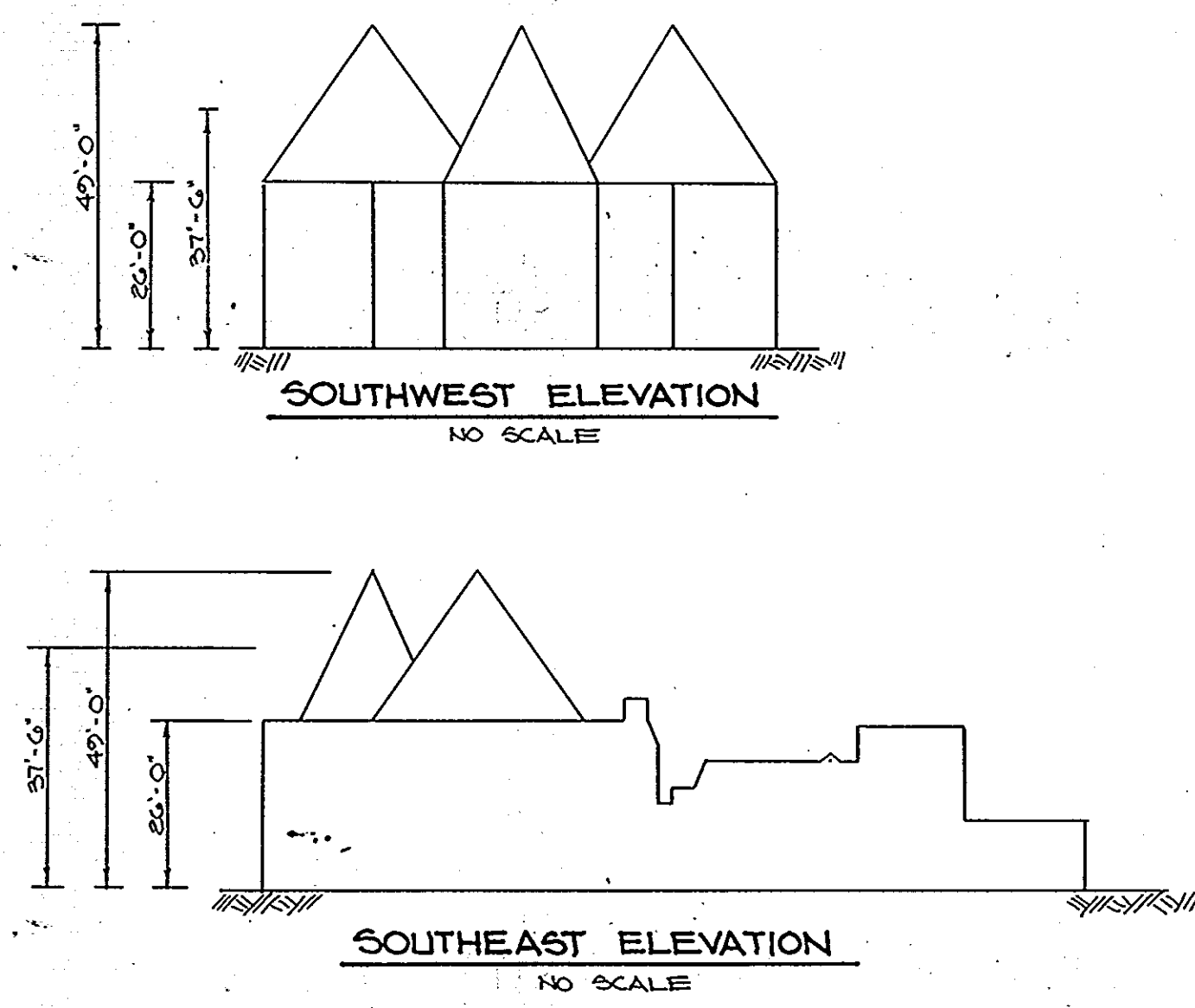
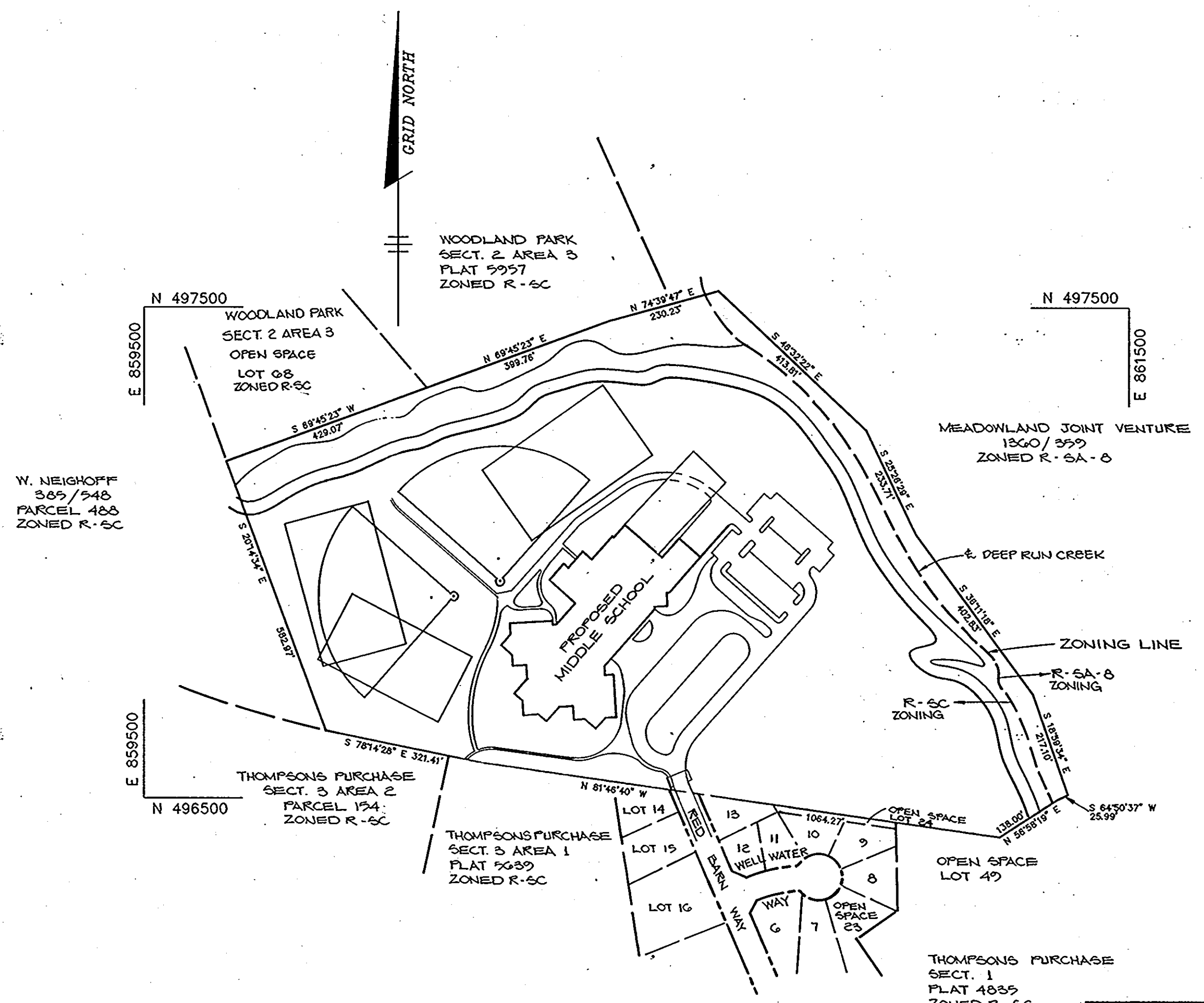
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.
 [Signature] 9-12-89
 COUNTY HEALTH OFFICER P.E. DATE

APPROVED: HOWARD COUNTY DEPT. OF PLANNING AND ZONING
 [Signature] 9-18-89
 DIRECTOR DATE

[Signature] 9/14/89
 CHIEF, DIVISION OF COMMUNITY AND PLANNING AND LAND DEVELOPMENT DATE

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 [Signature] 9/11/89
 DIRECTOR DATE

[Signature] 9-11-89
 CHIEF, BUREAU OF ENGINEERING DATE



ADDRESS CHART	
PARCEL	STREET ADDRESS
123	7050 RED BARN WAY

SUBDIVISION NAME	SECT./AREA	PARCEL #
MAYFIELD WOODS MIDDLE SCHOOL	---	123
PLAT # OR L/F	BLOCK #	ZONE
1031/203	---	R-6A-B
TAX/ZONE MAP	ELEC. DIST.	CENSUS TR
---	---	---
WATER CODE	SEWER CODE	
000	2610000	

APPROVED
 [Signature]
 8-18-89

DATE	NO.	REVISION

OWNER/DEVELOPER
 BOARD OF EDUCATION OF HOWARD COUNTY
 10910 ROUTE 108
 ELLICOTT CITY, MARYLAND 21043
 (301) 992-0500

PROJECT: MAYFIELD WOODS MIDDLE SCHOOL
 A HOWARD COUNTY, MARYLAND PUBLIC SCHOOL

AREA TAX MAP NO. 37 PARCEL 123 ZONED R-SC & R-SA-8
 1st ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

TITLE: TITLE SHEET

RIEMER MUEGGE & ASSOCIATES, INC.
 A Land Planning, Engineering and Consulting Firm
 3105 North Ridge Road Ellicott City, Maryland 21043
 301-461-2690 FAX: 301-750-3176

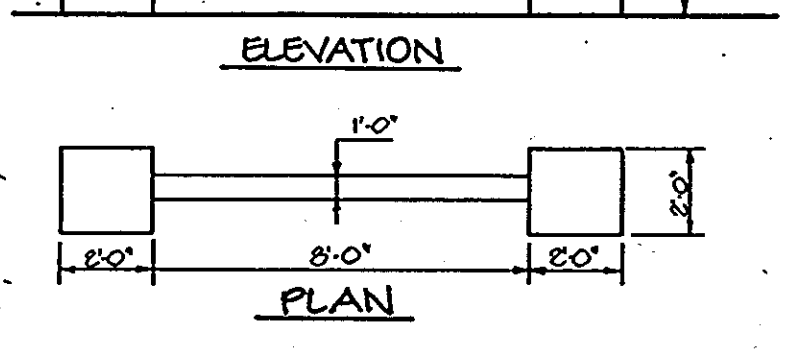
DATE: 8-24-89
 DESIGNED BY: C.J.R.
 DRAWN BY: D.O.S.
 PROJECT NO: 57500
 DATE: JULY 5, 1989
 SCALE: AS SHOWN
 DRAWING NO. 1 OF 9



LEGEND

- P-1 PAVING
- ▨ P-2 PAVING
- ▩ P-3 PAVING
- ▤ CONCRETE SIDEWALK
- ▥ MACADAM PATHWAY
- ▧ ASPHALT PAVING

NOTES - 1. ALL ON-SITE ROADWAYS TO BE PRIVATE.
 2. SEE SHEET 3 FOR FINE GRADING, CURB RADI, AND CURB AND GUTTER DELINEATION.



ALL 0.5% @ 200' FROM MAIN
 * - FLOODPLAIN ELEV. TAKEN FROM RECORD PLAN NO. 5907 OF WOODLAND PARK SECTION 2 AREA 3
 ** - FLOODPLAIN ELEV. TAKEN FROM HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS FLOODPLAIN STUDY OF DEEP RUN CREEK.

NOTE: ZONING DIVISION LINE IS THE CENTERLINE OF DEEP RUN CREEK.
 ALL EXTERIOR LIGHTING DEVICES SHALL BE REFLECTED/DIRECTED AWAY FROM ADJACENT RESIDENTIALLY ZONED PROPERTIES AND PUBLIC ROAD RIGHT-OF-WAY LINES.

AS BUILT CERTIFICATION

ENGINEER _____
 P.E. # _____ DATE _____

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.
John E. Gyle 9-12-89
 COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY DEPT. OF PLANNING AND ZONING.
W. R. ... 9-18-89
 DIRECTOR DATE

Robert ... 9/24/89
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
James ... 9/11/89
 DIRECTOR DATE
Richard ... 9-11-89
 CHIEF, BUREAU OF ENGINEERING DATE

9-20-89	1	ADDED ENTRY MONUMENT & DETAIL
DATE	NO.	REVISION

OWNER/DEVELOPER
 BOARD OF EDUCATION OF HOWARD COUNTY
 10910 ROUTE 108
 ELLICOTT CITY, MARYLAND 21043
 (301) 992-0500

PROJECT: MAYFIELD WOODS MIDDLE SCHOOL
 A HOWARD COUNTY, MARYLAND PUBLIC SCHOOL
 AREA TAX MAP NO. 37 PARCEL 123 ZONED R-SC & R-SA-8
 1st ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

TITLE: SITE DEVELOPMENT PLAN

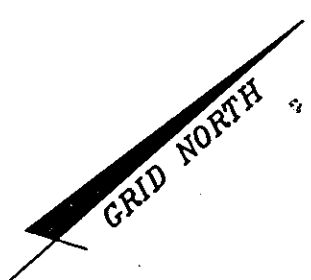
RIEMER MUEGGE & ASSOCIATES, INC.
 A Land Planning, Engineering and Consulting Firm
 3105 North Ridge Road Ellieott City, Maryland 21043
 301-461-2690 FAX: 301-750-3176

APPROVED
 DIVISION OF COMMUNITY PLANNING AND DEVELOPMENT
 HOWARD COUNTY
 DATE: 8-24-89
 8-10-89

DATE: 8-24-89
 DESIGNED BY: C.J.R.
 DRAWN BY: M.A.D.
 PROJECT NO: 57300
 DATE: JULY 5, 1989
 SCALE: 1" = 50'
 DRAWING NO. 6 OF 9

NOTE: CONTRACTOR TO LOCATE EX. 6" & 8" STUB AND THEN REMOVE THE STOPPER TO CONNECT THE PROP. STUB.
 THOMPSON'S PURCHASE SEC. 2 PLAT 4975, 5404 ZONED R-SC

PROPOSED MIDDLE SCHOOL
F.F. ELEV. 255.0



NOTE: ALL RADII 5' UNLESS OTHERWISE NOTED.
* DENOTES CHANGE FROM REV. 7" CURB & GUTTER TO 24" 7" CURB & GUTTER.

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.

John Boyle
COUNTY HEALTH OFFICER **J.S.** DATE 9-22-89

APPROVED: HOWARD COUNTY DEPT. OF PLANNING AND ZONING

Ulrich
DIRECTOR DATE 9-18-89

Joseph S. Kugler
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT **JD** DATE 9/18/89

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

James J. ...
DIRECTOR DATE 9/11/89

William S. ...
CHIEF, BUREAU OF ENGINEERING **W.S.** DATE 9-11-89

DATE	NO.	REVISION

OWNER/DEVELOPER

BOARD OF EDUCATION OF HOWARD COUNTY
10910 ROUTE 108
ELLCOTT CITY, MARYLAND 21043
(301) 992-0500

PROJECT: **MAYFIELD WOODS MIDDLE SCHOOL**
A HOWARD COUNTY, MARYLAND PUBLIC SCHOOL

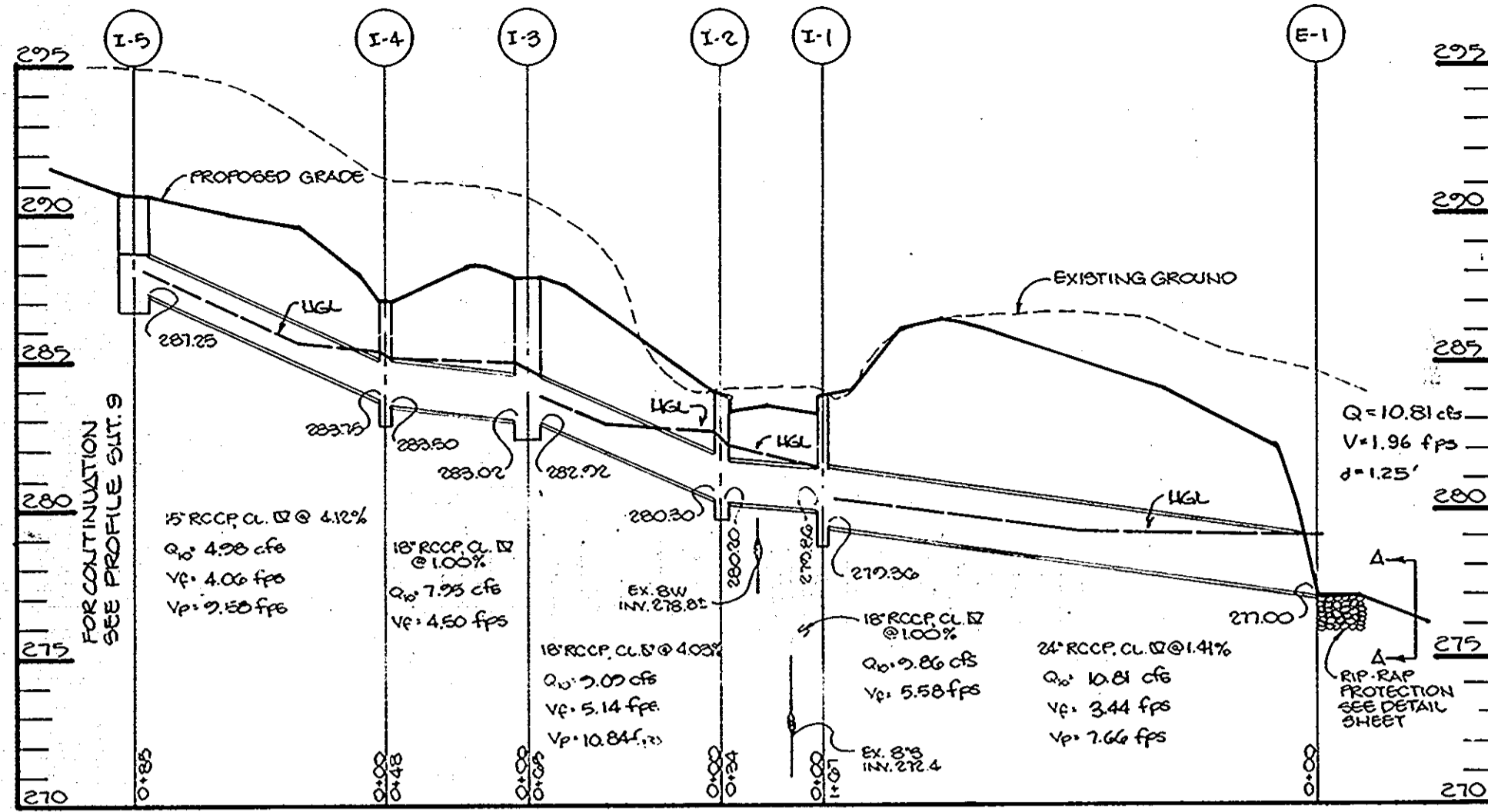
AREA TAX MAP NO. 37 PARCEL 123 ZONED R-SC & R-SA-8
1st ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

TITLE: **FINE GRADING PLAN**

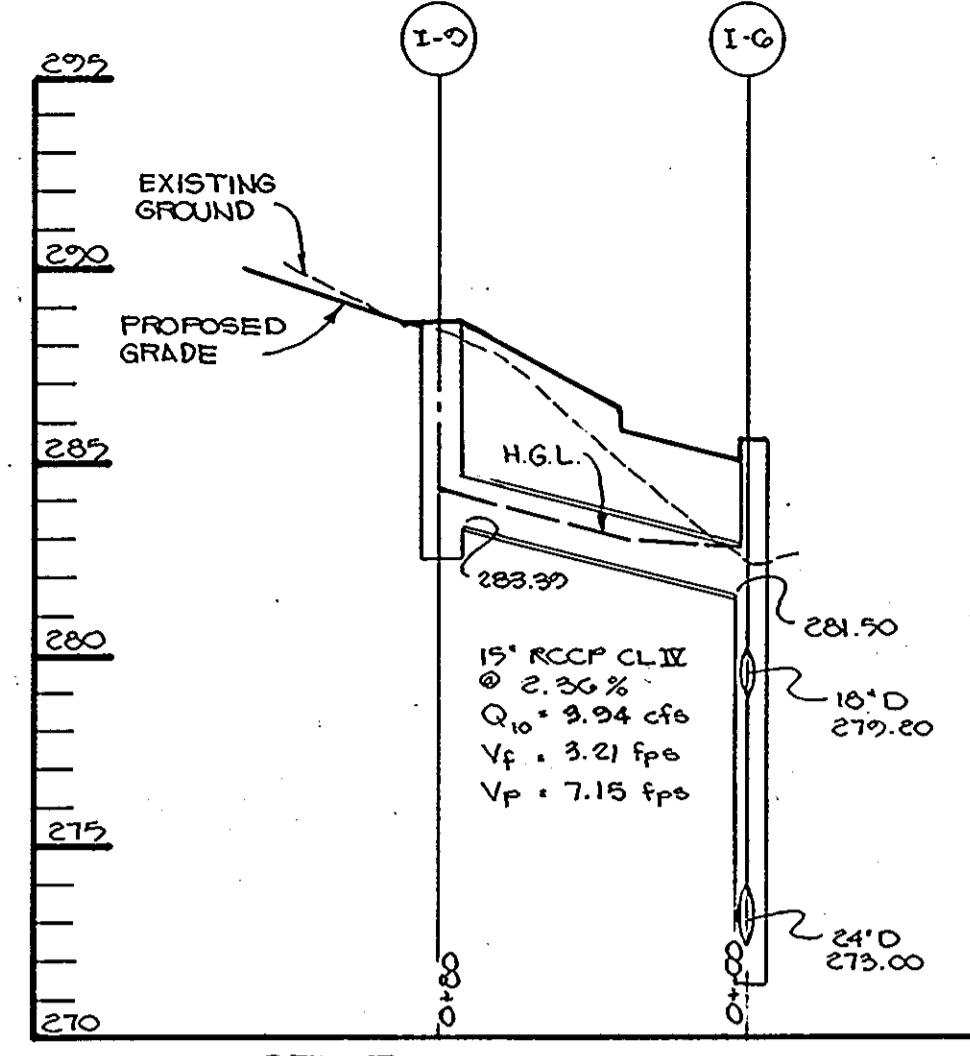
RIEMER MUEGGE & ASSOCIATES, INC.
A Land Planning, Engineering and Consulting Firm
3105 North Ridge Road Ellicott City, Maryland 21043
301-461-2690 FAX: 301-750-3176

	DATE <u>8-18-89</u>	WP-89-187
	DESIGNED BY: C.J.R.	
	DRAWN BY: M.A.D.	
	PROJECT NO: 57300	
	DATE: JULY 5, 1989	
	SCALE: 1" = 30'	
	DRAWING NO. <u>5</u> OF <u>2</u>	

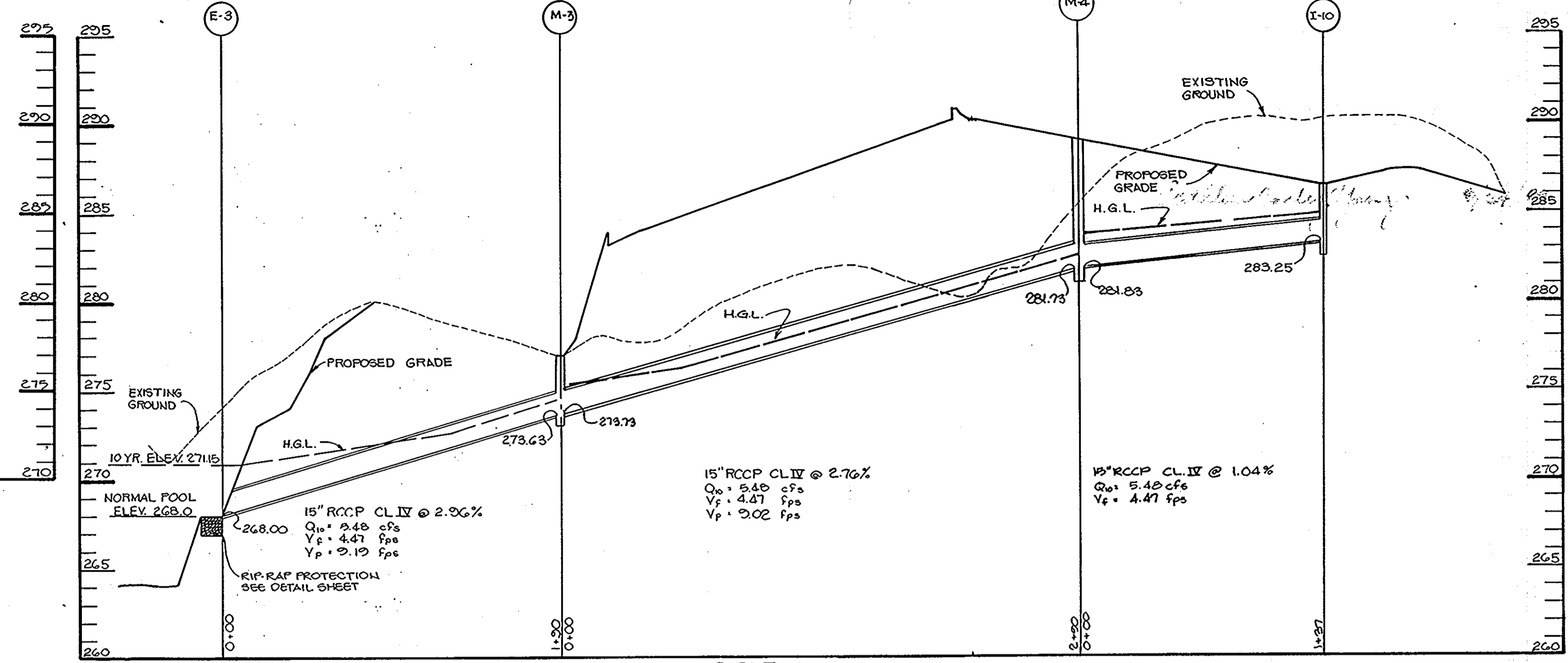
APPROVED
DIVISION OF COMMUNITY PLANNING & LAND DEVELOPMENT
HOWARD COUNTY MARYLAND
DATE 8-18-89



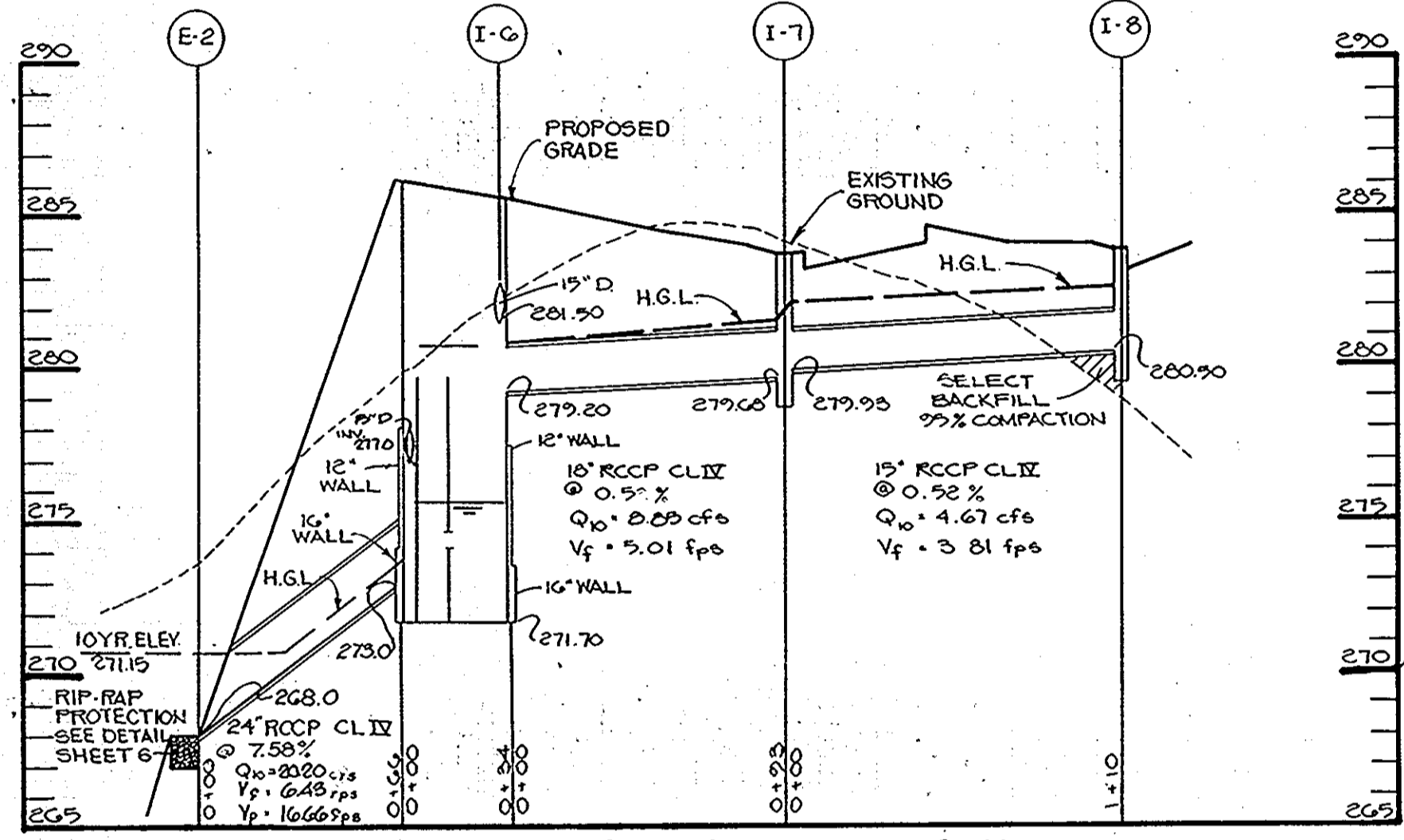
STORM DRAIN PROFILE
SCALE: HOR: 1"=50'
VERT: 1"=5'



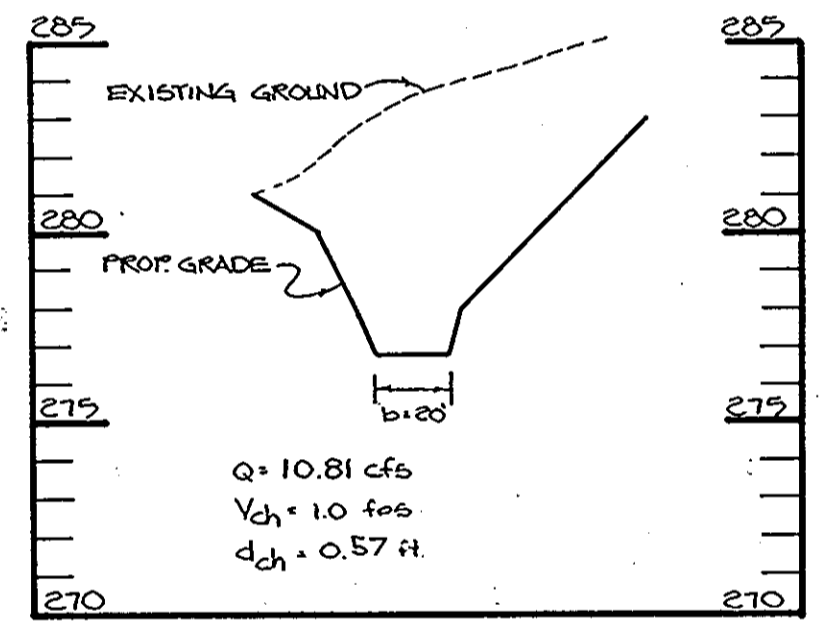
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VERT: 1"=5'



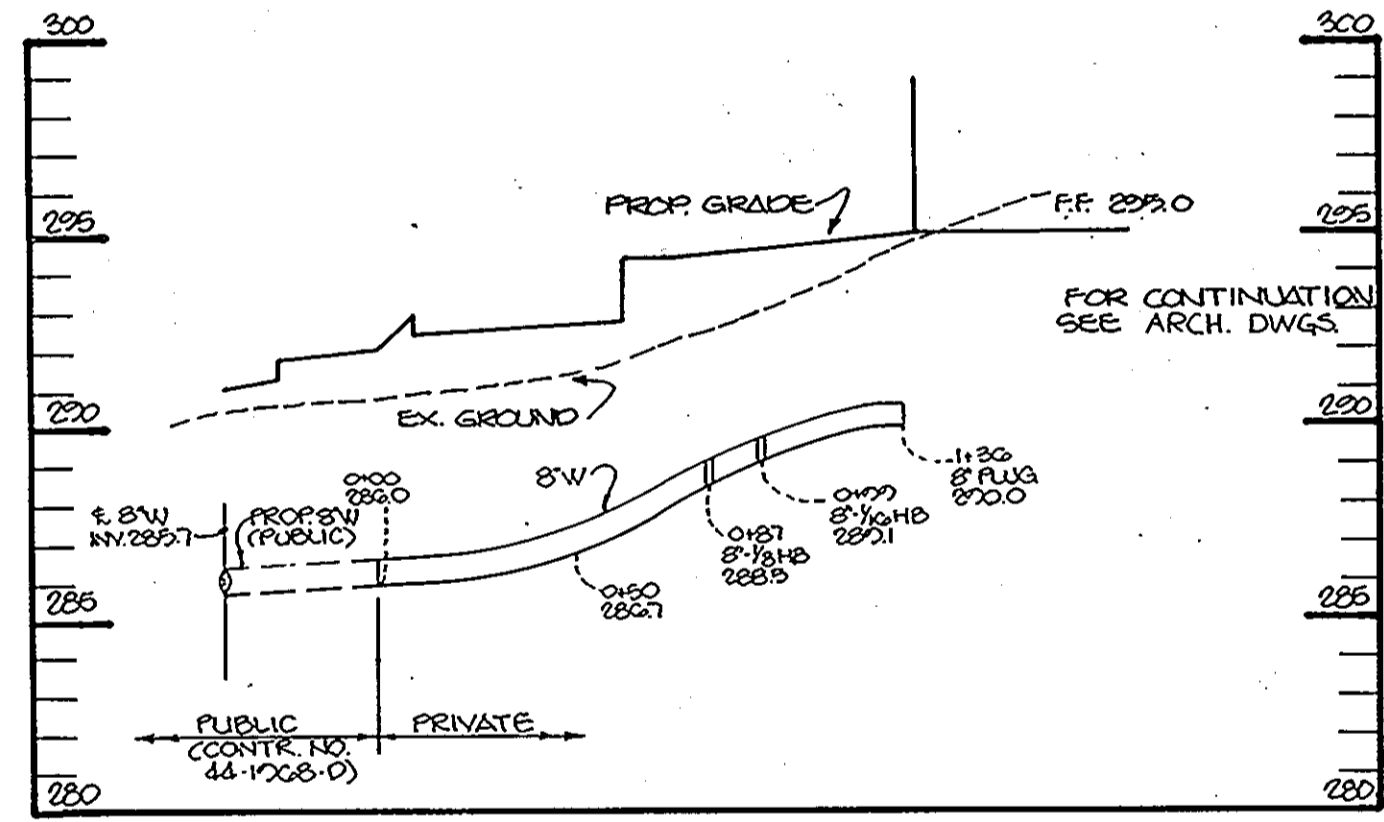
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VERT: 1"=5'



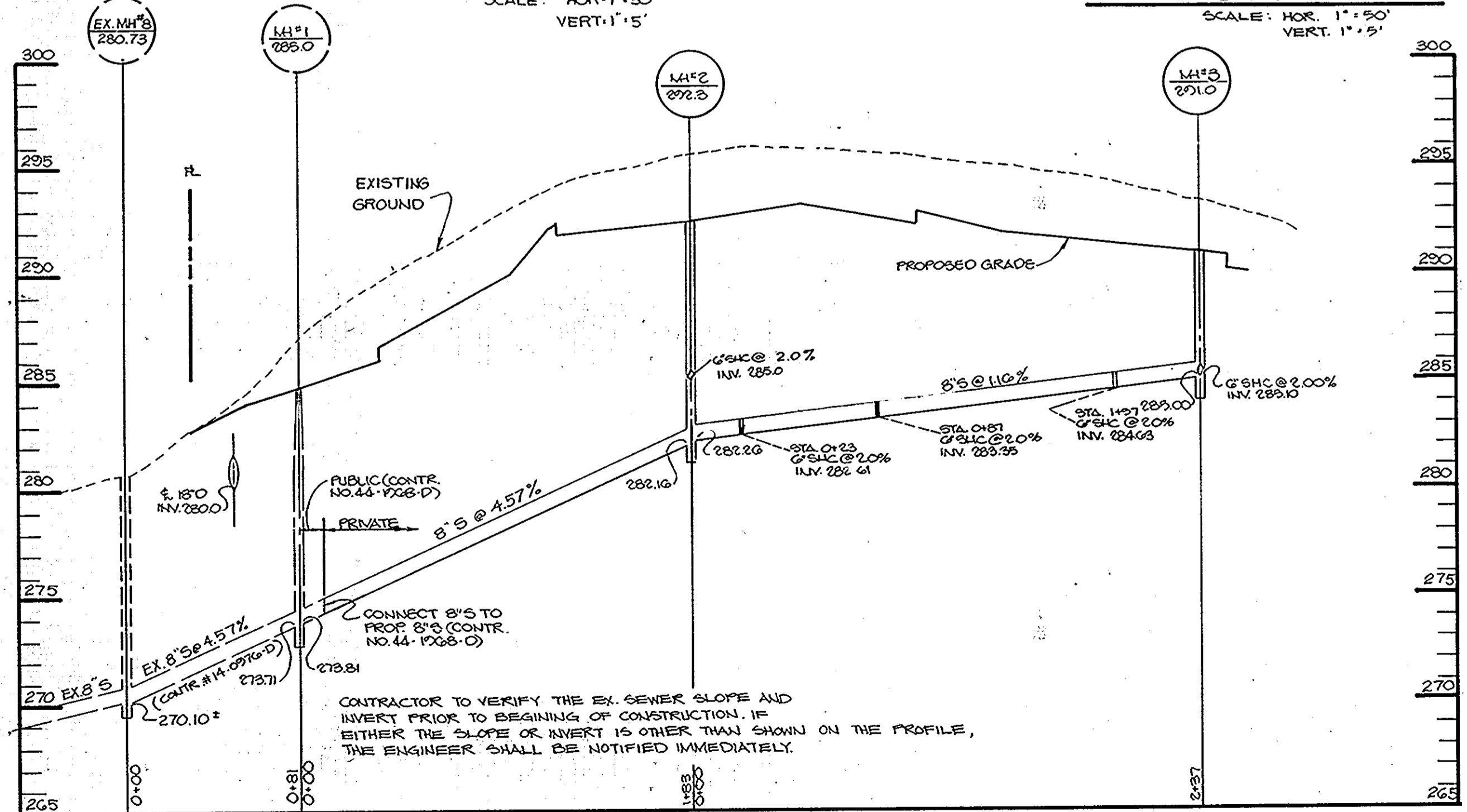
STORM DRAIN PROFILE
SCALE: HOR: 1"=50'
VERT: 1"=5'



SECTION A-A OF GRASS SWALE
SCALE: HOR: 1"=50'
VERT: 1"=5'



WATER PROFILE
SCALE: HOR: 1"=50'
VERT: 1"=5'

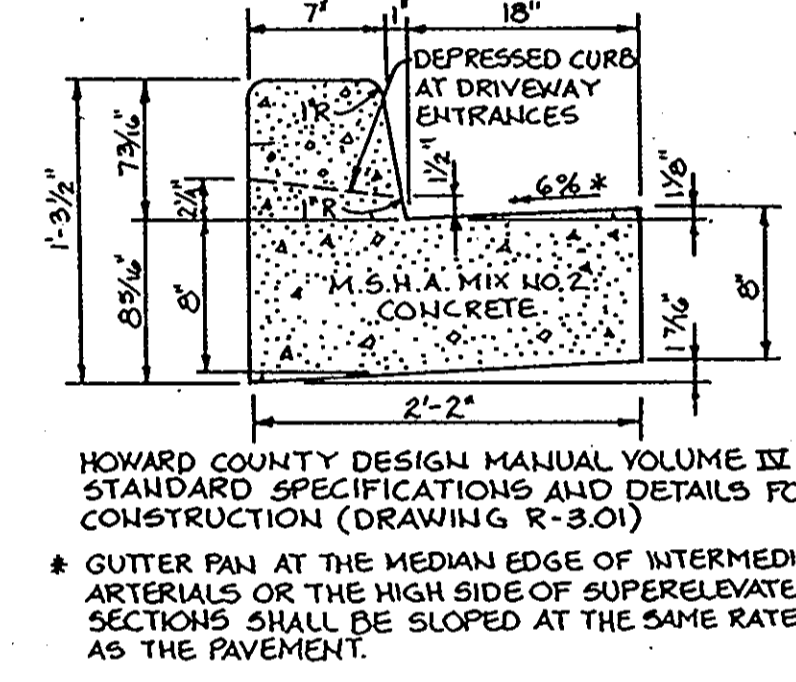


SEWER PROFILE
SCALE: HOR: 1"=50'
VERT: 1"=5'

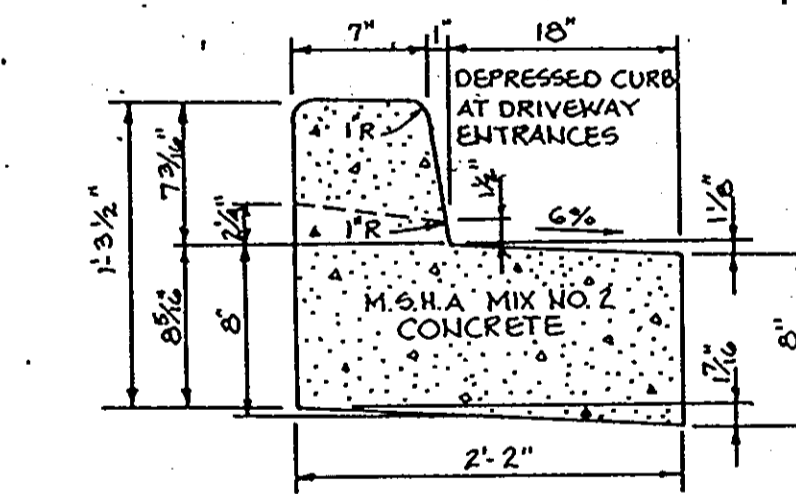
STRUCTURE SCHEDULE

No.	Type	Location	Inv. In	Inv. Out	Top of Curb or Rim Elevation	Remarks
E-6	12" Metal End Sect.	See Plan	287.4	---	---	See Ho. Co. Std. Detail SD 5-6
E-7	12" Metal End Sect.	See Plan	287.6	---	---	See Ho. Co. Std. Detail SD 5-6
M-1	4'-0" Std. Precast Manhole	See Plan	288.8	288.7	288.7	See Ho. Co. Std. Detail G 5-12
M-2	4'-0" Std. Precast Manhole	See Plan	289.99	289.99	289.5	See Ho. Co. Std. Detail G 5-12
I-1	A-10	See Plan	279.86	279.36	283.88	See Ho. Co. Std. Detail SD 4-06
I-2	A-10	See Plan	280.30	280.20	283.88	See Ho. Co. Std. Detail SD 4-06
I-3	A-10	See Plan	283.02	282.92	287.36	See Ho. Co. Std. Detail SD 4-06
I-4	Yard Inlet w/ Receptor Grade	See Plan	283.50	283.20	287.20	See Ho. Co. Std. Detail SD 4-14
I-5	A-10	See Plan	---	287.25	281.28	See Ho. Co. Std. Detail SD 4-06
I-6	A-10 opening Water Quality Inlet	See Plan	279.20-18" (281.50)-15"	273.00	285.58	See Ho. Co. Std. Detail SD 4-06 Sheet 7
I-7	A-5 Depressed	See Plan	279.93	279.68	284.08	See Ho. Co. Std. Detail SD 4-01 & SD 4-81
I-8	A-5 Depressed	See Plan	---	280.50	284.08	See Ho. Co. Std. Detail SD 4-01 & SD 4-81
I-9	A-10	See Plan	---	283.39	288.28	See Ho. Co. Std. Detail SD 4-06
I-10	Yard Inlet w/ Receptor Grade	See Plan	---	283.25	286.50	See Ho. Co. Std. Detail SD 4-14 & SD 4-9
M-3	4'-0" Std. Precast Manhole	See Plan	273.73	273.63	277.00	See Ho. Co. Std. Detail G 5-12
M-4	4'-0" Std. Precast Manhole	See Plan	281.83	281.73	289.20	See Ho. Co. Std. Detail G 5-12
E-1	24" Conc. End Section	See Plan	277.00	---	---	See Ho. Co. Std. Detail SD 5-51
E-2	24" Conc. End Section	See Plan	268.00	---	---	See Ho. Co. Std. Detail SD 5-51
E-3	15" Conc. End Section	See Plan	268.00	---	---	See Ho. Co. Std. Detail SD 5-51
E-4	36" Conc. End Section	See Plan	255.00	---	---	See Ho. Co. Std. Detail SD 5-51
E-5	12" Metal End Section	See Plan	205.50	---	---	See Ho. Co. Std. Detail SD 5-61

NOTE: Manhole Frames & Covers Eo. slope with Grade



STANDARD 7" COMBINATION CURB AND GUTTER
No Scale



REVERSE 7" COMBINATION CURB AND GUTTER
No Scale

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.
John B. ... 9-13-89
COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY DEPT. OF PLANNING AND ZONING.
... 9-10-89
DIRECTOR DATE

APPROVED: CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT.
... 9/14/89
DATE

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
James P. ... 9/11/89
DIRECTOR DATE

... 9-11-89
CHIEF, BUREAU OF ENGINEERING DATE

DATE	NO.	REVISION

OWNER/DEVELOPER
BOARD OF EDUCATION OF HOWARD COUNTY
10910 ROUTE 108
ELLCOTT CITY, MARYLAND 21043
(301) 992-0500

PROJECT: **MAYFIELD WOODS MIDDLE SCHOOL**
A HOWARD COUNTY, MARYLAND PUBLIC SCHOOL

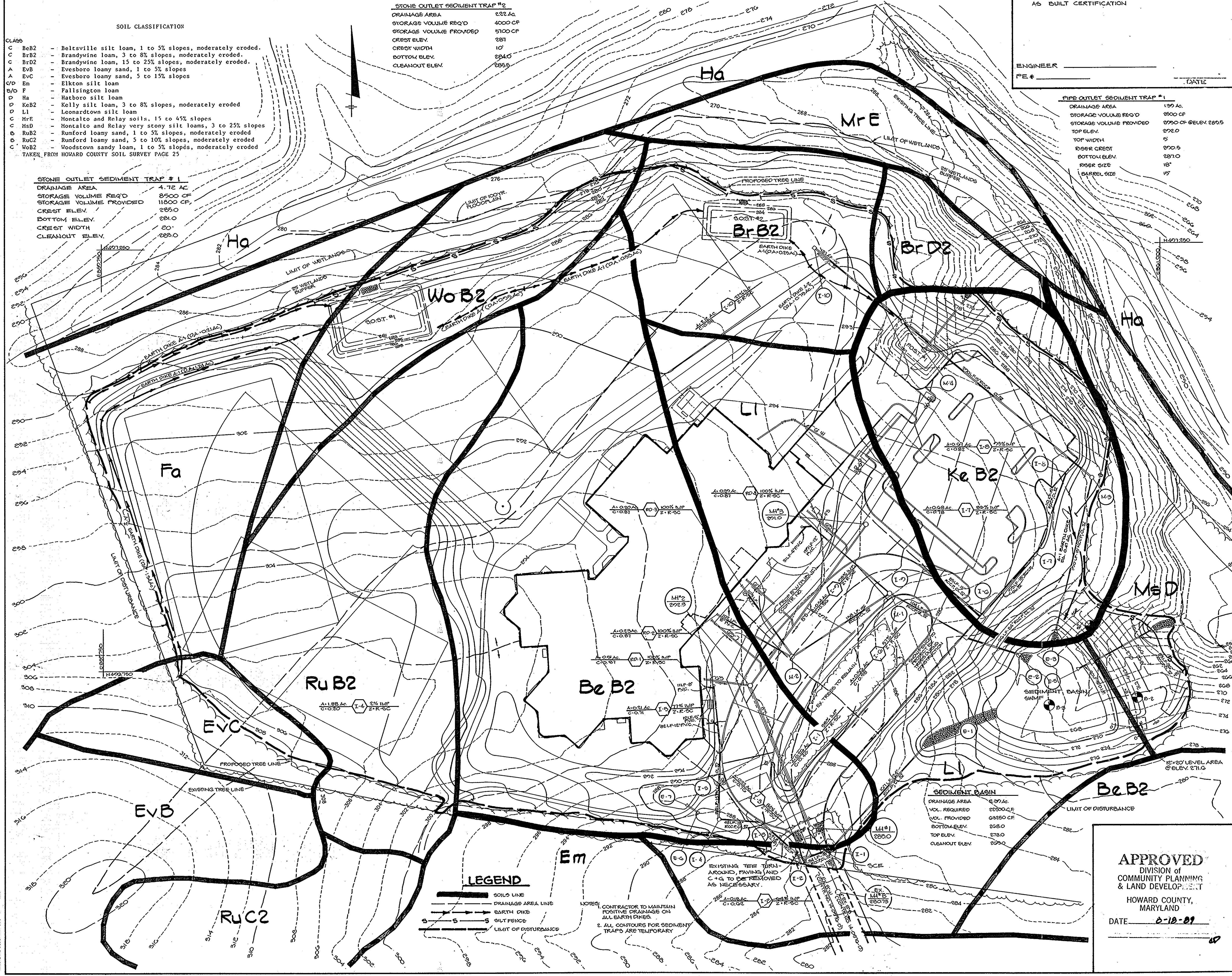
AREA: TAX MAP NO. 37 PARCEL 123 ZONED R-SC & R-SA-8
1st ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

TITLE: **STORM DRAIN, WATER & SEWER PROFILES AND DETAILS**

RIEMER MUEGGE & ASSOCIATES, INC.
A Land Planning, Engineering and Consulting Firm
3105 North Ridge Road Ellicott City, Maryland 21043
301-461-2690 FAX: 301-750-3176

DATE: 8-24-89
WIP-89-150

DESIGNED BY: C.J.R.
DRAWN BY: D.O.S.
PROJECT NO: 57300
DATE: JULY 5, 1989
SCALE: AS SHOWN
DRAWING NO. 4 OF 2



SOIL CLASSIFICATION

CLASS	
C	BeB2 - Beltsville silt loam, 1 to 5% slopes, moderately eroded.
C	BrB2 - Brandywine loam, 3 to 8% slopes, moderately eroded.
C	BrD2 - Brandywine loam, 15 to 25% slopes, moderately eroded.
A	EvB - Evesboro loamy sand, 1 to 5% slopes
A	EvC - Evesboro loamy sand, 5 to 15% slopes
C/D	Em - Elkton silt loam
D/F	Fallsington loam
D	Ha - Habero silt loam
D	KeB2 - Kelly silt loam, 3 to 8% slopes, moderately eroded
D	Ll - Leonardtown silt loam
C	MrE - Montalto and Relay soils, 15 to 45% slopes
C	MsD - Montalto and Relay very stony silt loams, 3 to 25% slopes
B	RuB2 - Rumford loamy sand, 1 to 5% slopes, moderately eroded
B	RuC2 - Rumford loamy sand, 5 to 10% slopes, moderately eroded
D	WoB2 - Woodstown sandy loam, 1 to 5% slopes, moderately eroded

TAKEN FROM HOWARD COUNTY SOIL SURVEY PAGE 25

STONE OUTLET SEDIMENT TRAP #2

DRAINAGE AREA	227 AC
STORAGE VOLUME REQ'D	4000 CF
STORAGE VOLUME PROVIDED	5100 CF
CREST ELEV.	281
CREST WIDTH	10'
BOTTOM ELEV.	284.0
CLEANOUT ELEV.	285.5

STONE OUTLET SEDIMENT TRAP #1

DRAINAGE AREA	4.72 AC
STORAGE VOLUME REQ'D	8500 CF
STORAGE VOLUME PROVIDED	11800 CF
CREST ELEV.	285.0
BOTTOM ELEV.	281.0
CREST WIDTH	20'
CLEANOUT ELEV.	288.0

AS BUILT CERTIFICATION

ENGINEER _____

PE # _____

DATE _____

PIPE OUTLET SEDIMENT TRAP #1

DRAINAGE AREA	130 AC
STORAGE VOLUME REQ'D	8500 CF
STORAGE VOLUME PROVIDED	2750 CF @ ELEV. 280.5
TOP ELEV.	272.0
TOP WIDTH	5'
RISER CREST	270.5
BOTTOM ELEV.	267.0
RISER SIZE	18"
BARREL SIZE	15"

BY THE DEVELOPER:

"I 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."

Cathleen Conley Young 8/24/89
DEVELOPER DATE

BY THE ENGINEER:

"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."

Arthur E. Muegge 8-24-89
ENGINEER 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.

James M. Helm 8-24-89
S. SOIL CONSERVATION SERVICE DATE

THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

Robert W. Ziehm 8-31-89
HOWARD S.C.D. DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.

John G. Byn 9/3/89
COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY DEPT. OF PLANNING AND ZONING.

Ulrich 9-18-89
DIRECTOR DATE

Frank S. Taylor 9/14/89
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

James M. Helm 9/11/89
DIRECTOR DATE

James M. Helm 9-11-89
CHIEF, BUREAU OF ENGINEERING DATE

DATE	NO.	REVISION

OWNER/DEVELOPER

BOARD OF EDUCATION
OF HOWARD COUNTY
10910 ROUTE 108
ELLICOTT CITY, MARYLAND 21043
(301) 992-0500

PROJECT: **MAYFIELD WOODS MIDDLE SCHOOL**
A HOWARD COUNTY, MARYLAND PUBLIC SCHOOL

AREA TAX MAP NO. 37 PARCEL 123 ZONED R-SC & R-SA-8
1st ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

TITLE: **GRADING, SEDIMENT CONTROL PLAN,
DRAINAGE AREA MAP AND SOILS MAP**

RIEMER MUEGGE & ASSOCIATES, INC.
A Land Planning, Engineering and Consulting Firm
3105 North Ridge Road Ellicott City, Maryland 21043
301-461-2690 FAX: 301-750-3176

Arthur E. Muegge 8-24-89
DATE

DESIGNED BY: C.J.R.

DRAWN BY: M.A.D./D.O.S.

PROJECT NO: 97300

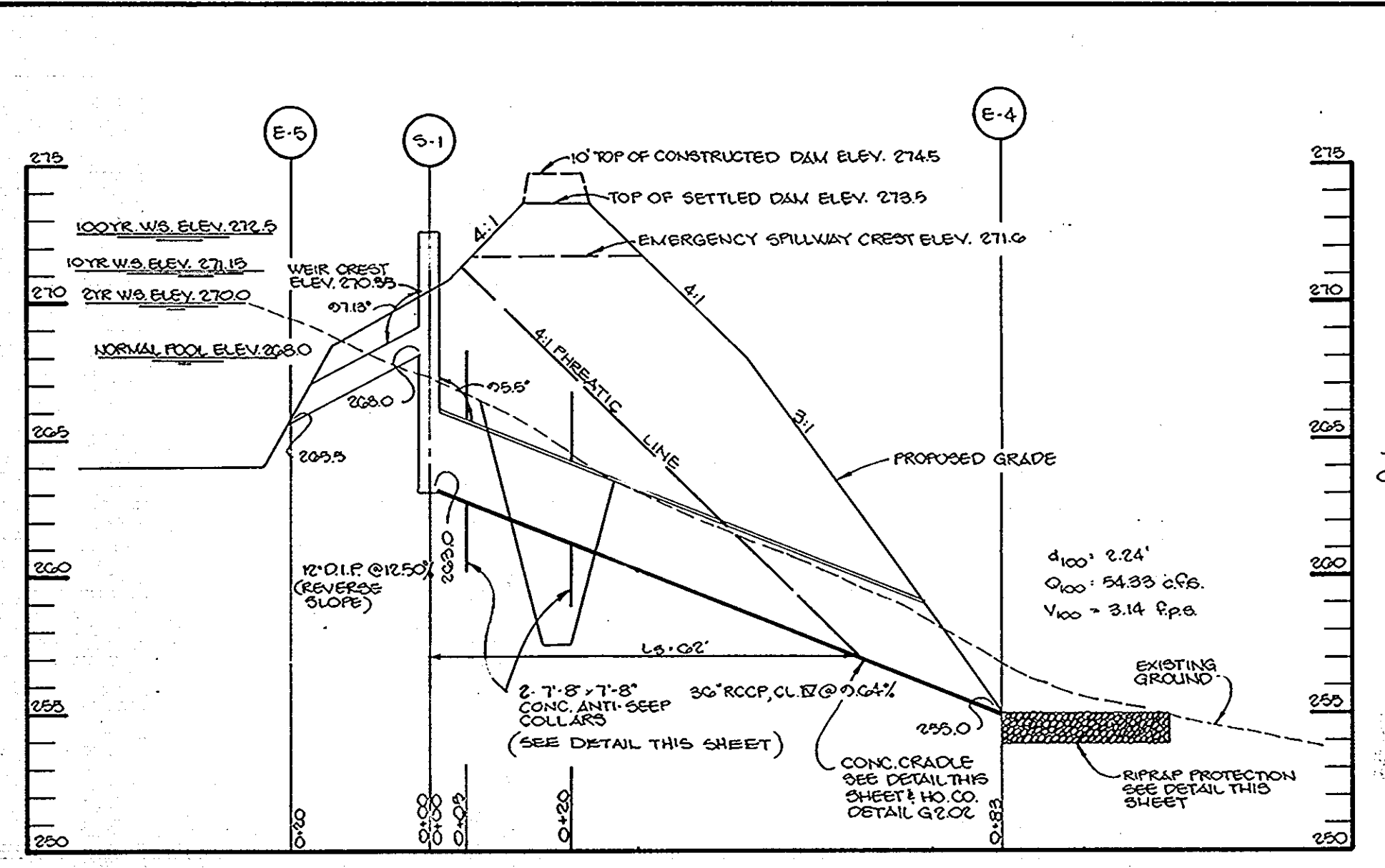
DATE: JULY 5, 1989

SCALE: 1" = 50'

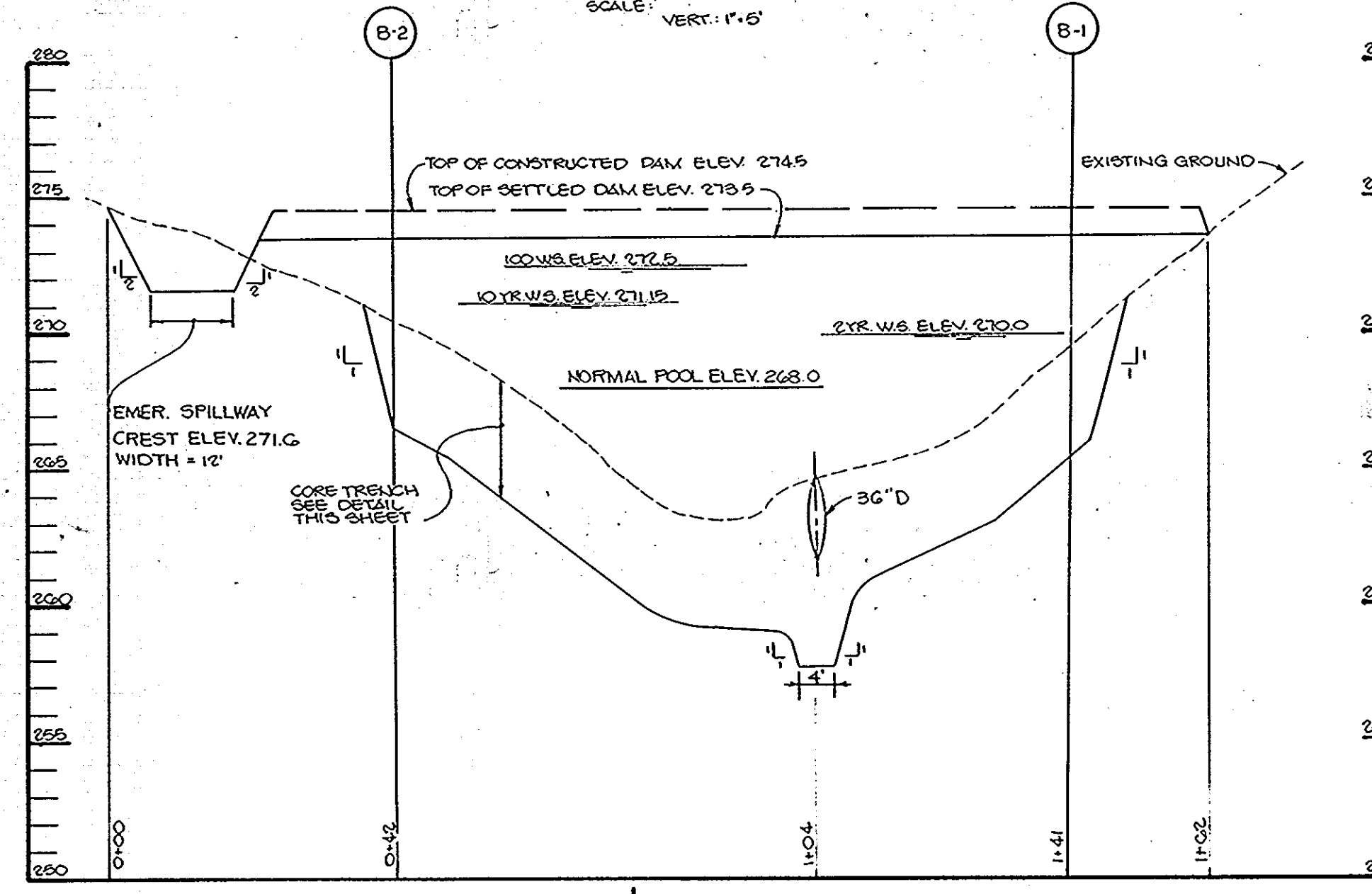
DRAWING NO. 6 OF 9

APPROVED
DIVISION of
COMMUNITY PLANNING
& LAND DEVELOPMENT
HOWARD COUNTY,
MARYLAND
DATE 8-18-89

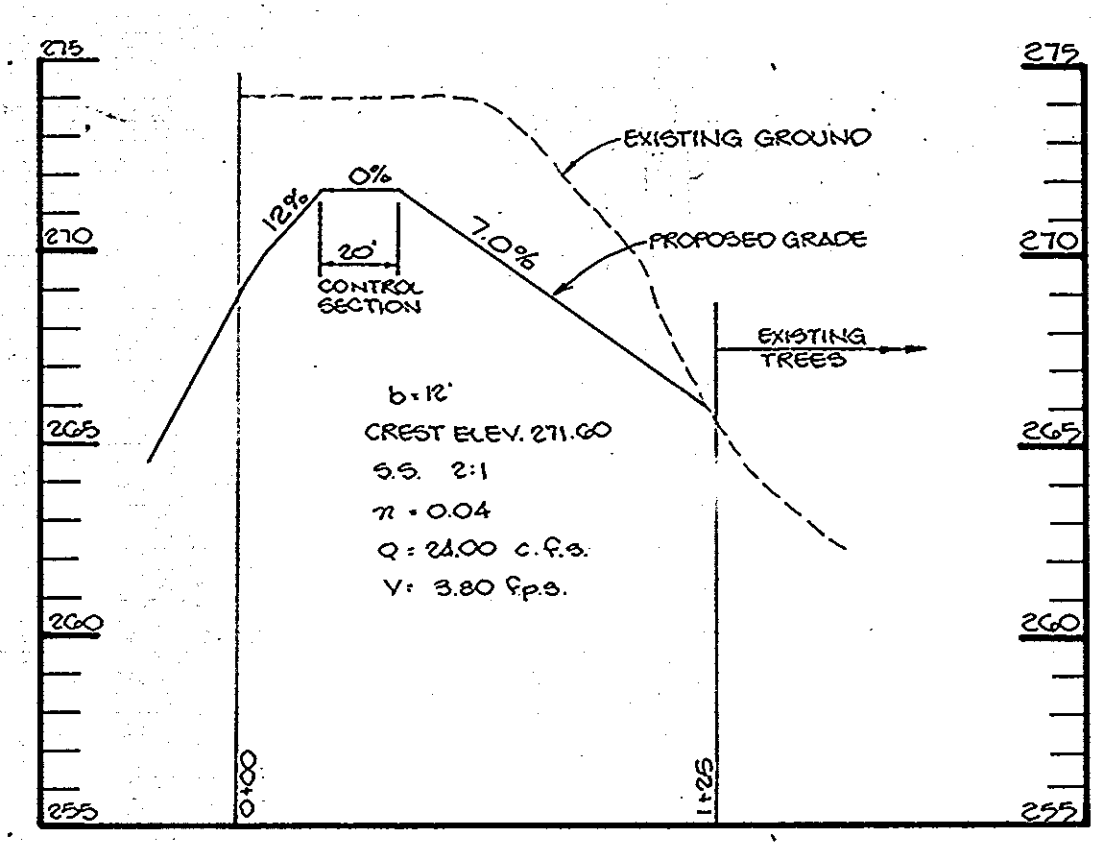




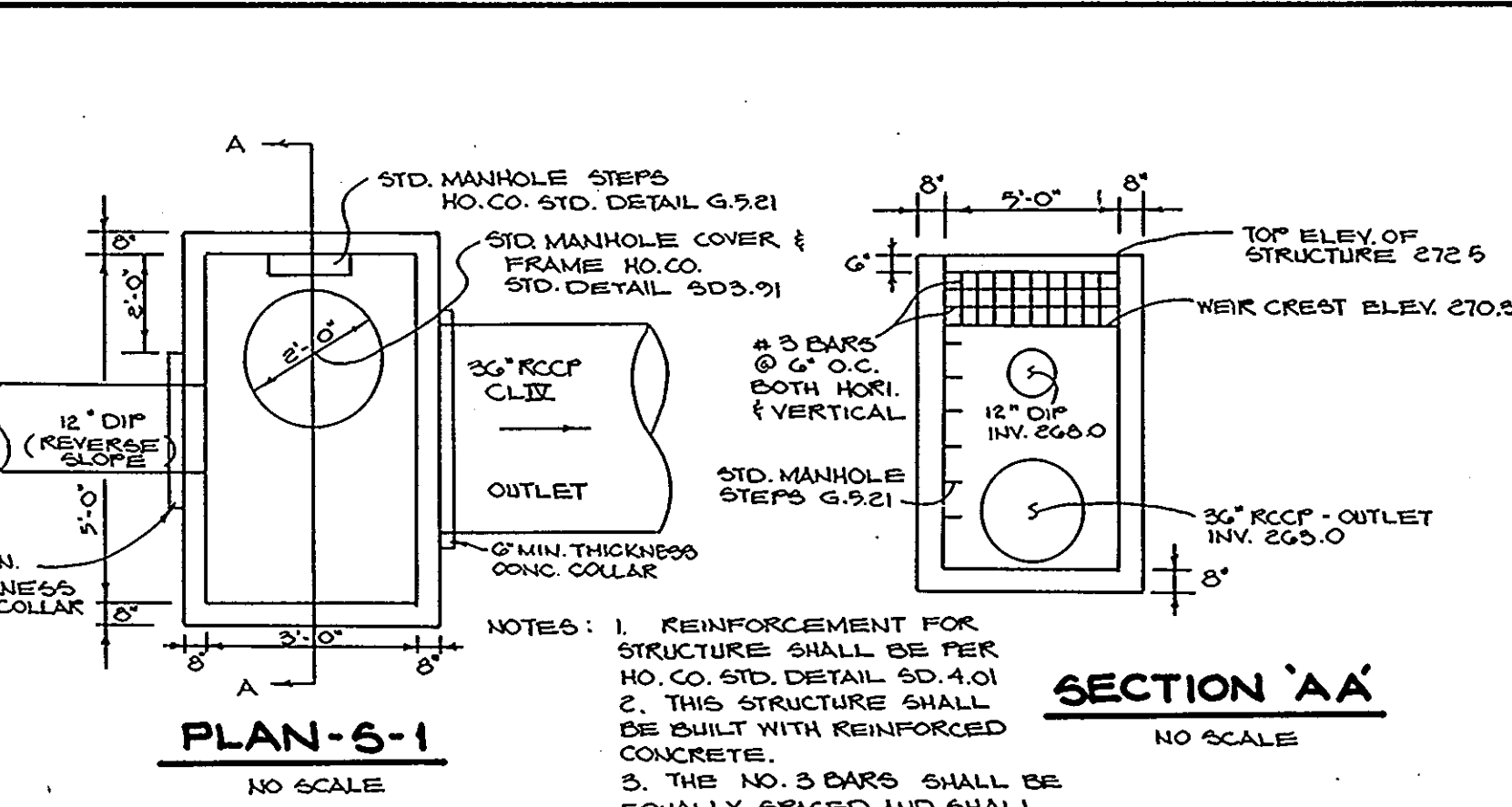
PROFILE THRU PRINCIPAL SPILLWAY



PROFILE ALONG E OF EMBANKMENT

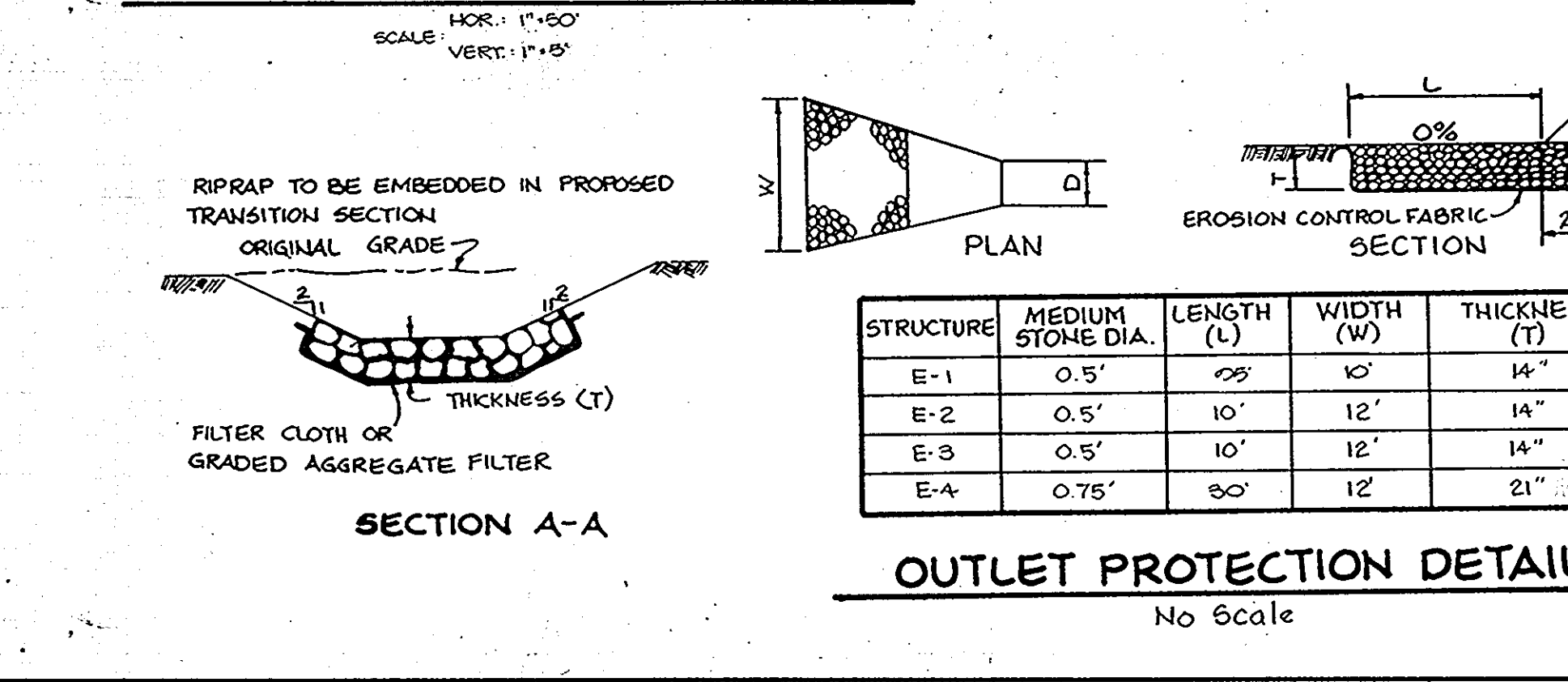
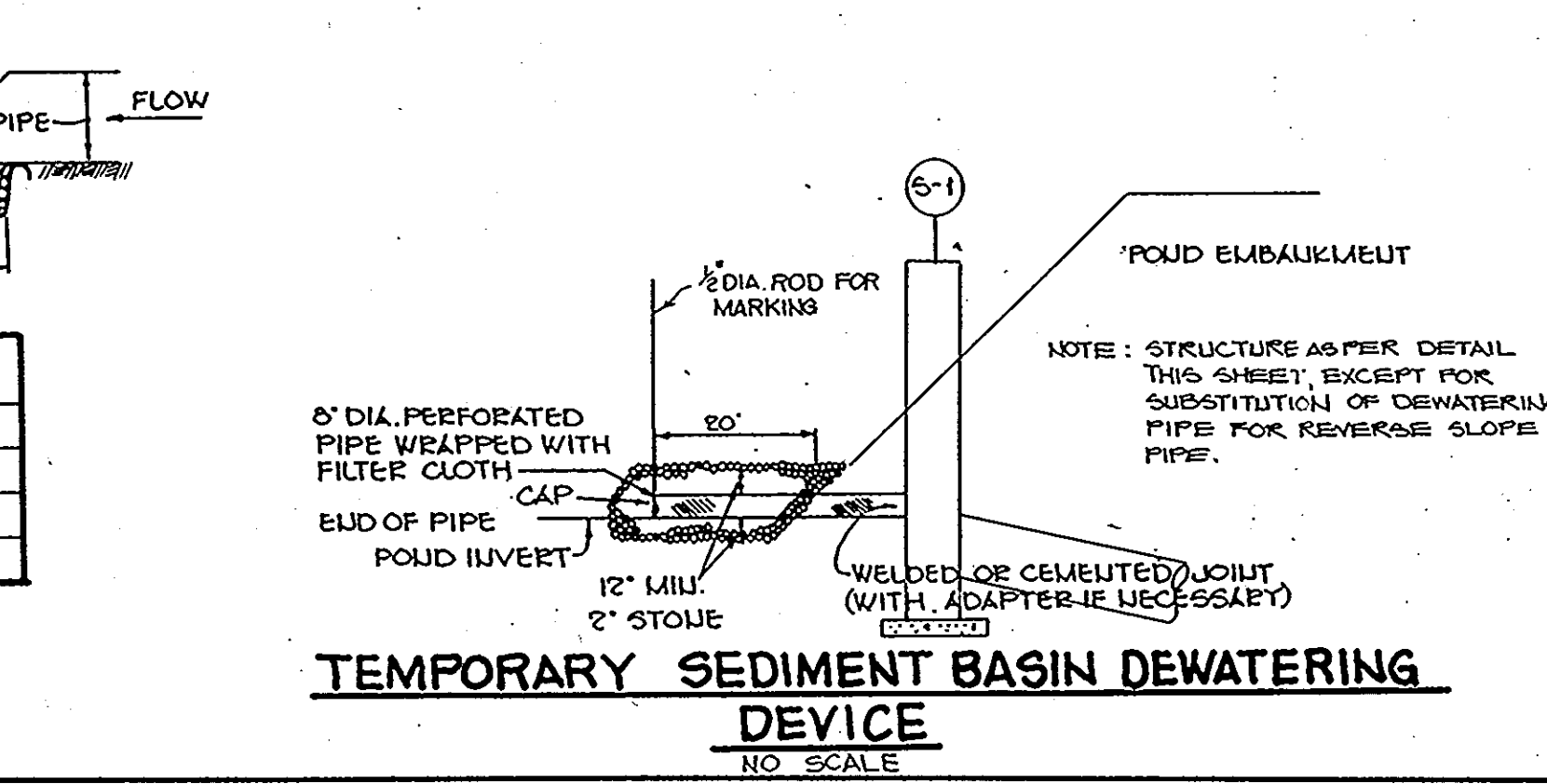
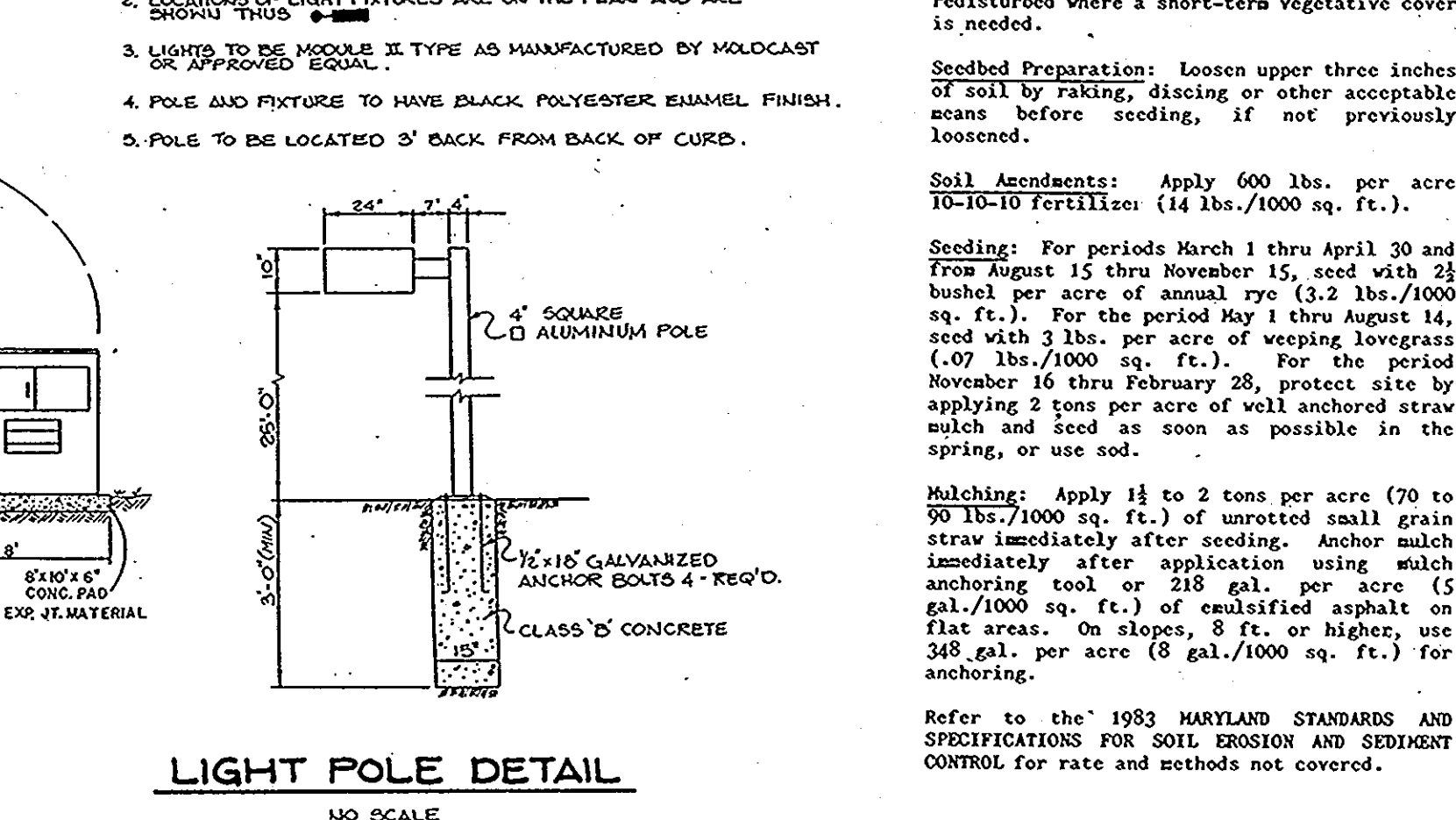


PROFILE THRU EMERGENCY SPILLWAY



SEQUENCE OF CONSTRUCTION

- Obtain a Grading Permit.
- Remove existing tee turn-around at the end of Red Barn Way and install stabilized construction entrance and snow fence (11 day)
- Clear site of trees up to proposed limit of disturbance. Contractor to dispose of debris off-site. Trees inside snow fence area to remain undisturbed.
- Install stone outlet sediment traps #1 and #2, silt fence and earth dike and pipe outlet sediment trap #1 (1 week)
- Install sediment basin, grading to bottom elevation 268.0. Install structure S-1 and storm drain from S-1 to E-4. Provide temporary dewatering pipe on structure S-1. Core trench to be installed. Contractor may have to bring adequate material for trench from off-site. Core trench will be dewatered by pumping during installation (30 days)
- Begin site grading. Contractor to maintain positive drainage on all earth dikes.
- Install water, sewer and storm drainage systems after the grading is brought to subgrade (1 week)
- Stabilize disturbed areas in accordance with the temporary seeding notes (2 days)
- Begin building construction.
- Install curb and gutter and paving (2 weeks)
- Finish fine grading and building construction.
- Stabilize all disturbed areas in accordance with permanent seeding notes (2 days)
- Upon approval of the Howard County Department of Public Works Sediment Control Inspector, remove all sediment controls, stabilize all disturbed areas in accordance with the permanent seeding notes, and convert sediment basin to SWSF by the following:
 - Flush storm drain systems (1/2 day)
 - Remove all standing water (1 day)
 - Remove all accumulated sediment and dispose of properly (1/2 day)
 - Grade pond to contour as shown on plan sheet number 2 of S, and replace the dewatering pipe with a 42\"/>



SITE PREPARATION
Areas under the borrow areas; embankment, and structural works shall be cleared, grubbed and the topsoil stripped to remove all trees, vegetation, roots or other objectionable materials. Channel banks and steep breaks shall be sloped to no steeper than 1:1.

Areas covered by the pond or reservoir will be cleared of all trees, brush, logs, fence, rubbish and other objectionable material unless otherwise designated on the plans. A sufficient quantity of topsoil will be stockpiled in a suitable location for use on the embankment and designated areas.

SOIL FILL
The fill material shall be taken from approved designated borrow areas or areas. It shall be free of roots, stumps, wood, rubbish, mortar, stones, iron or other objectionable materials. The embankment shall be constructed to an elevation which provides for anticipated settlement to the design elevation. The fill height above the existing ground shall be increased above the design elevation (including freeboard) as shown on the plans.

Placement
Areas on which fill is to be placed shall be scarified prior to placement of fill. Fill material shall be placed in 8-inch maximum thickness (before compaction) layers which are to be continuous across the length of the fill. The most across borrow material shall be placed in the downstream portions of the embankment.

Compaction
The movement of the hauling and spreading equipment over the fill shall be controlled so that the entire surface of each lift shall be covered by not less than one track of the equipment. The compaction shall be achieved by a minimum of four complete passes over the surface of the lift. The equipment shall be equipped with a chain sufficient moisture such that the required degree of compaction can be obtained with the equipment used.

Soil Tests
Where specified, a cutoff trench shall be excavated along or parallel to the centerline of the embankment as shown on the plans. The loose width of the trench shall be governed by the equipment used for excavation, with the minimum width being four feet. The depth shall be at least four feet or as shown on the plans. The material along the sides of the trench shall be 1 to 1 or flatter. The backfill material for the cutoff trench shall be the most impervious material available and shall be compacted with equipment or rollers to assure maximum density and minimum permeability.

Structural Backfill
Backfill material shall be of the type and quality conforming to that specified in the contract. The backfill shall be placed in horizontal layers not to exceed four inches in thickness and compacted by hand tampers or other compaction equipment. The backfill shall be placed in layers under and adjacent to the pipe. At no time during the backfilling operation shall other equipment be allowed to operate closer than four feet, measured horizontally, to any part of a structure. Under no circumstances shall the contractor drive equipment over any part of a concrete structure or pipe unless there is a compacted layer of twenty-four inches or greater over the structure or pipe.

Corrugated Metal Pipe
Material: (Steel Pipe)-This pipe and its appurtenances shall be galvanized to fully bituminous coated and conform to the requirements of ASTM Specification M-190 Type A with watertight coupling bands. Any non-galvanized pipe or fittings shall be replaced with galvanized pipe with cold applied bituminous coating compound.

Connections
All connections with pipes must be completely watertight. The loose width of the connection shall be 3/4 to 1 inch wider all around when the pipe and riser are set. Watertight coupling bands shall be used at all joints. The pipe shall be completely watertight to the pipe in such a manner as to be completely watertight.

Inclined
The pipe shall be firmly and uniformly bedded throughout its entire length. Where rock or soft, spongy or other unstable soil is encountered, all such material shall be removed and replaced with suitable earth compacted to provide adequate support.

Concrete
Material: 1. Cement - Normal Portland cement shall conform to the latest ASTM Specification C-150. 2. Water - The water used in concrete shall be clean, free from oil, acid, alkali, scales, organic matter or other objectionable substances. 3. Sand - The sand used in concrete shall be clean, hard, strong and durable, and shall be well graded with 100 per cent passing a one-quarter inch sieve. Limestone sand shall not be used. 4. Coarse Aggregate - The coarse aggregate shall be clean, hard, strong and durable, and free from clay or dirt. It shall be well graded with a maximum size of one and one-half (1-1/2) inches. 5. Reinforcing Steel - The reinforcing steel shall be deformed bars of intermediate grade billet steel or rail steel conforming to ASTM Specification A-615.

Design Mix
The concrete shall be mixed in the following proportions, measured by weight: The water-cement ratio shall be 3/4 to 1. The proportion of materials for the test mix shall be 1:2:3. The combination of aggregates may be adjusted to produce a plastic and workable mix that will not produce harshness in placing or honeycombing in the structure.

Mixing
The concrete ingredients shall be mixed in batch mixers until the mixture is homogeneous and of uniform consistency. The mixing of each batch shall continue for not less than one and one-half minutes after all the ingredients, except the full amount of water, are in the mixer. The minimum mixing time is predicted on proper control of the speed of rotation of the mixer and of the introduction of the materials, including water, into the mixer. Water shall be added prior to, during, and following the mixing operation. Excessive overwatering requiring the addition of water to preserve the required concrete consistency shall not be permitted. Truck mixing will not be allowed provided the use of this method shall cause no violation of any applicable provisions of the specification given here.

Forming
The forms shall have sufficient strength and rigidity to hold the concrete and to withstand the necessary pressure, lashing, and vibration without deflection from the prescribed lines. They shall be watertight and constructed so that they can be removed without hammering or prying against the concrete.

Reinforcing Steel
All reinforcing material shall be free of dirt, rust, scale, oil, paint, or other coatings. The steel shall be accurately placed and securely tied and blocked into position so that no movement of the steel will occur during placement of concrete.

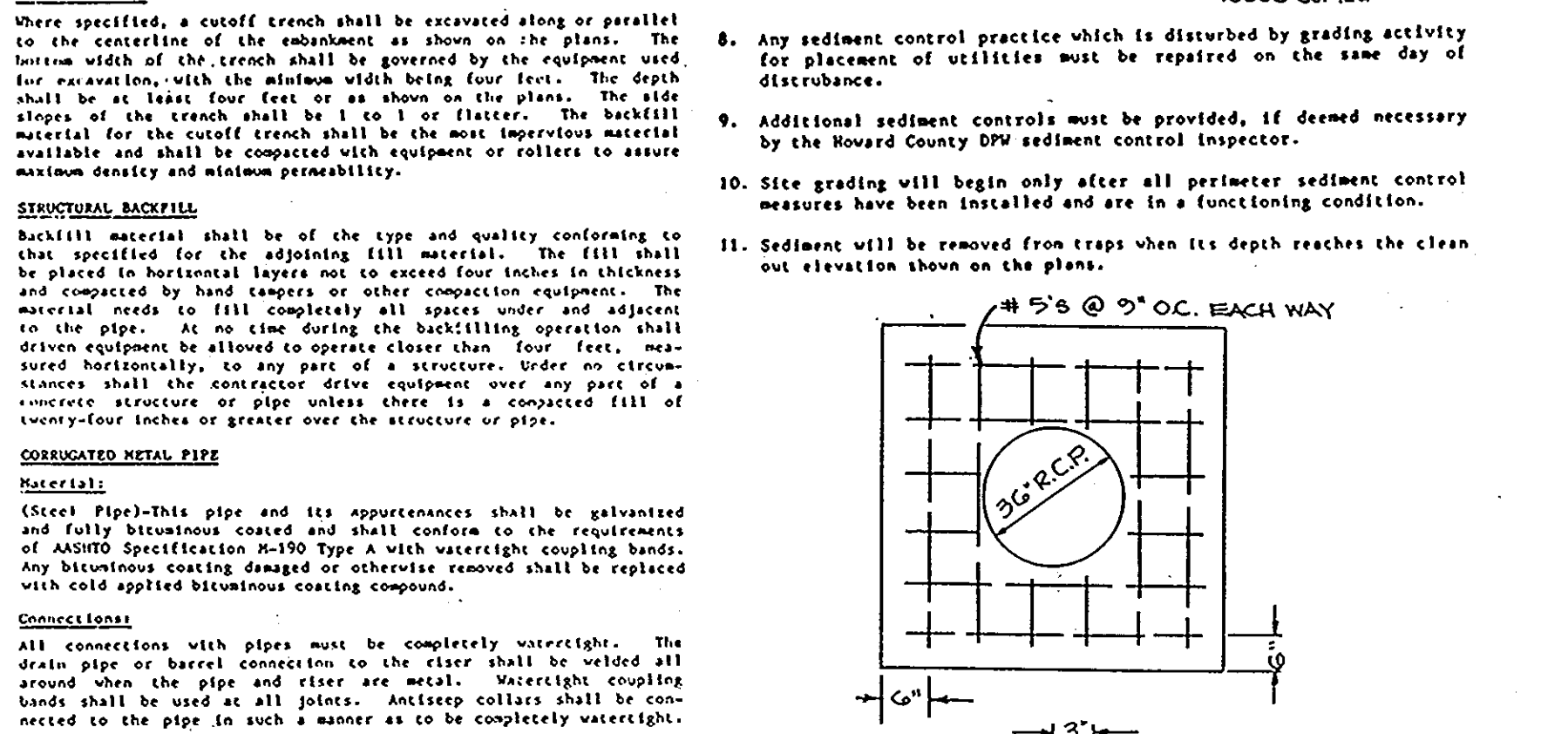
Embedment
Concrete shall be consolidated with internal type mechanical vibrators. Vibration shall be supplemented by spading and hand tamping as necessary to insure smooth and dense concrete along form surfaces, in corners and around embedded items.

Finishing
Defective concrete, honeycombed areas, voids left by the removal of the rods, ridges on all concrete surfaces permanently exposed to view or exposed to water on the finished structure, shall be repaired immediately after the removal of forms. All voids shall be reamed and completely filled with dry-patching mortar.

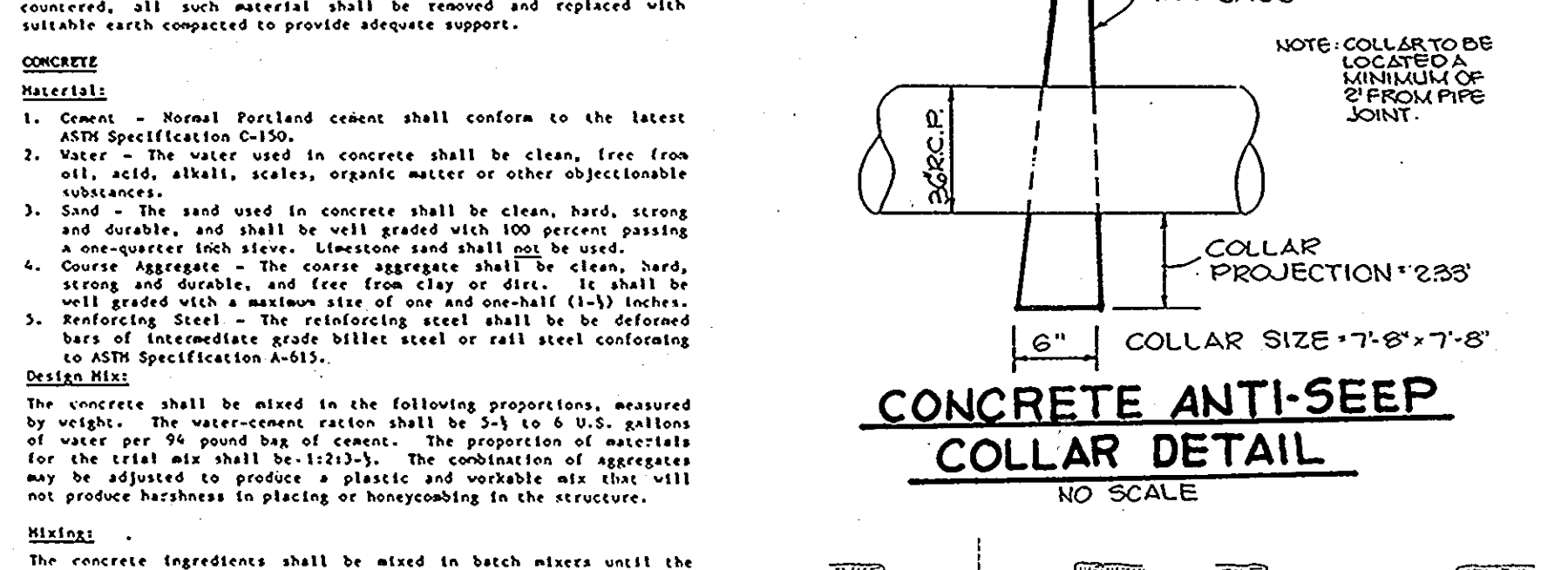
Protection and Curing
Exposed surfaces of concrete shall be protected from the direct rays of the sun for at least three (3) days. All concrete shall be kept continuously moist for at least ten (10) days after being placed. Moisture may be applied by spraying or sprinkling and by covering with plastic sheeting. Concrete shall not be exposed to freezing during the curing period. Curing compounds may also be used.

Placement Temperature
Concrete may not be placed at temperatures below 32° F with the temperature falling or 24° with the temperature rising.

Stabilization
All borrow areas shall be graded to provide proper drainage and left in a slightly condition. All exposed surfaces of the embankment, spillway, spoil and borrow areas, and basins shall be stabilized by seeding, fertilizing and mulching (if required) in accordance with the vegetative treatment specifications shown on or accompanying the drawings.



CONCRETE ANTI-SEEP COLLAR DETAIL



CONCRETE CRADLE DETAIL

AS BUILT CERTIFICATION

ENGINEER _____ DATE _____

PE # _____

APPROVED

DIVISION OF CONSERVATION PLANNING & LAND DEVELOPMENT

HOWARD COUNTY

DATE: 8-18-89

AS BUILT CERTIFICATION

ENGINEER _____ DATE _____

PE # _____

BY THE DEVELOPER:

"I 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."

Arthur E. Muegge 8-24-89
DEVELOPER DATE

BY THE ENGINEER:

"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."

Arthur E. Muegge 8-24-89
ENGINEER 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.

James M. Helms 8-31-89
S.S. SOIL CONSERVATION SERVICE DATE

THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

APPROVED: Robert J. Zichner 8-31-89
HOWARD S.O.D. DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.

James M. Helms 9-13-89
COUNTY HEALTH OFFICER S.S. DATE

APPROVED: HOWARD COUNTY DEPT. OF PLANNING AND ZONING.

W. H. ... 9-18-89
DIRECTOR DATE

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.

James M. Helms 9-11-89
DIRECTOR DATE

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

James M. Helms 9-11-89
DIRECTOR DATE

CHIEF, BUREAU OF ENGINEERING

James M. Helms 9-11-89
DATE

DATE NO. REVISION

OWNER/DEVELOPER

BOARD OF EDUCATION OF HOWARD COUNTY
10910 ROUTE 108
ELLCOTT CITY, MARYLAND 21043
(301) 992-0500

PROJECT: MAYFIELD WOODS MIDDLE SCHOOL
A HOWARD COUNTY, MARYLAND PUBLIC SCHOOL

AREA TAX MAP NO. 37 PARCEL 123 ZONED R-S & R-SA-8
1st ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

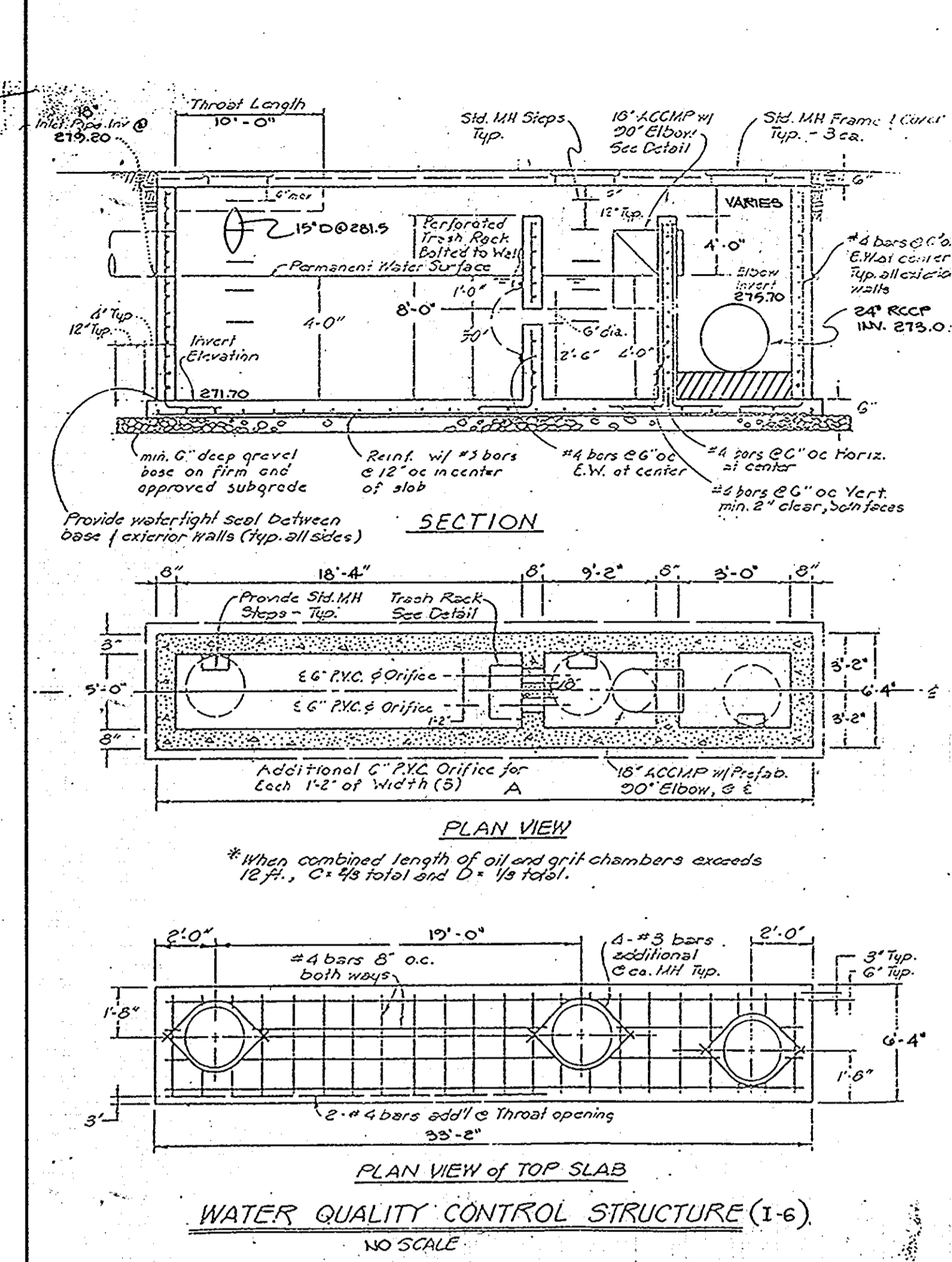
TITLE: S.W.M. PROFILES & DETAILS

DATE: 8-18-89

RIEMER MUEGGE & ASSOCIATES, INC.
A Land Planning, Engineering and Consulting Firm
3105 North Ridge Road Ellicott City, Maryland 21043
301-461-2690 FAX: 301-750-3176

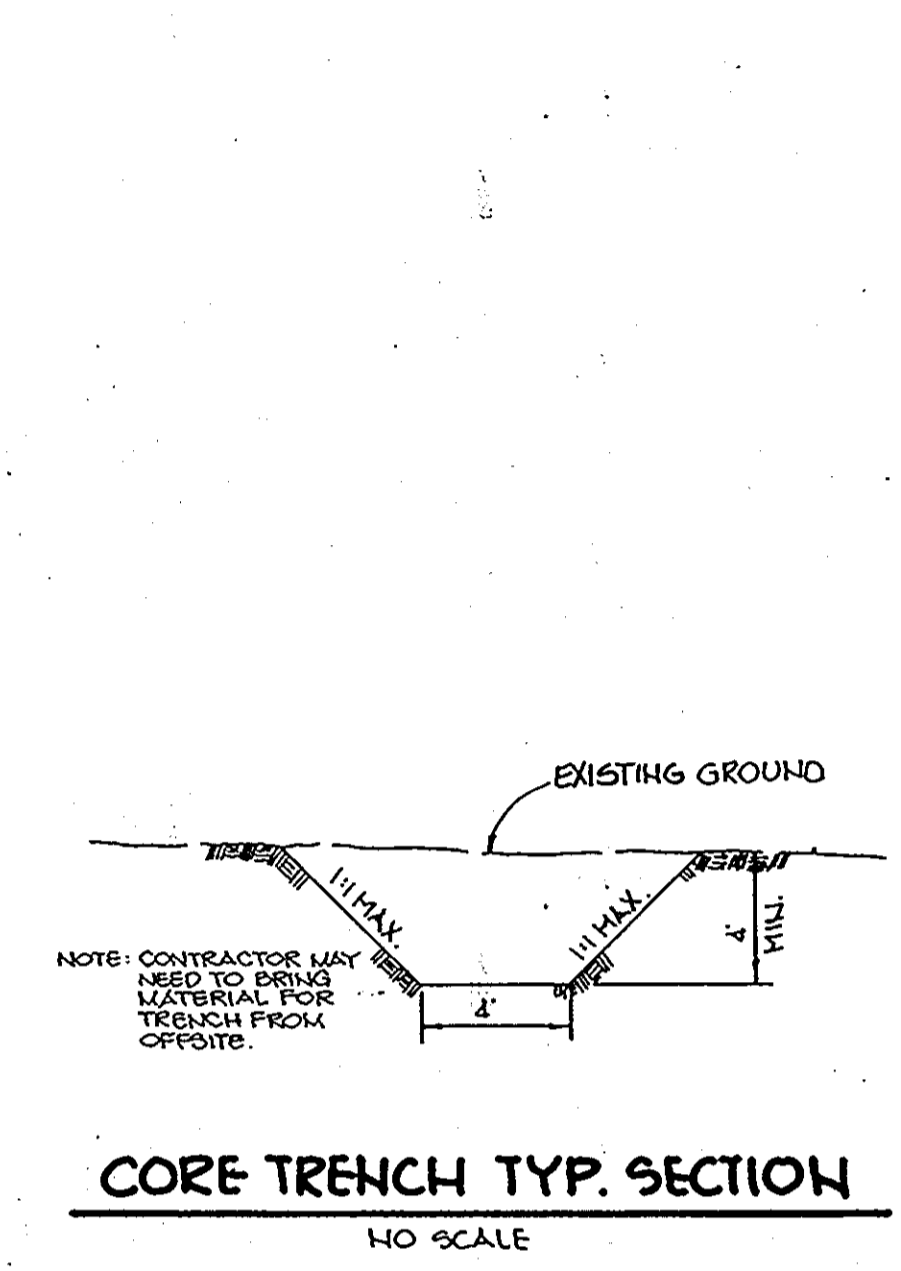
DATE: 8-18-89

DESIGNED BY: C.J.R.
DRAWN BY: D.O.S.
PROJECT NO: 57300
DATE: JULY 5, 1989
SCALE: AS SHOWN
DRAWING NO. 6 OF 9



MAINTENANCE NOTES (WATER QUALITY STRUCTURE WASTE)

- Water Quality Structures will require periodical cleaning. Owners of these facilities will have to clean them as needed or on a frequency that the County determines is appropriate. Owners of water quality structures will be notified by the County of the frequency of maintenance.
- Maintenance of these facilities will consist of cleaning out the separator and disposal of the waste and the repair of the facility as needed. Periodic inspections of these facilities will be made by the County Stormwater Management Group.
- The disposal of the liquid and solid matter should be as follows:
 - All liquid material in the separator inlet shall be pumped into a suitable tank truck and disposed of at an approved sanitary district discharge manhole or be taken to an approved sewage treatment plant for discharge.
 - The solid material shall be landfilled in an approved sanitary landfill.
- The inlet pipes, trash racks, grates, and structural parts shall be repaired as needed.



CORE TRENCH TYP. SECTION
NO SCALE

WATER QUALITY STRUCTURE NOTES

CONSTRUCTION NOTES:

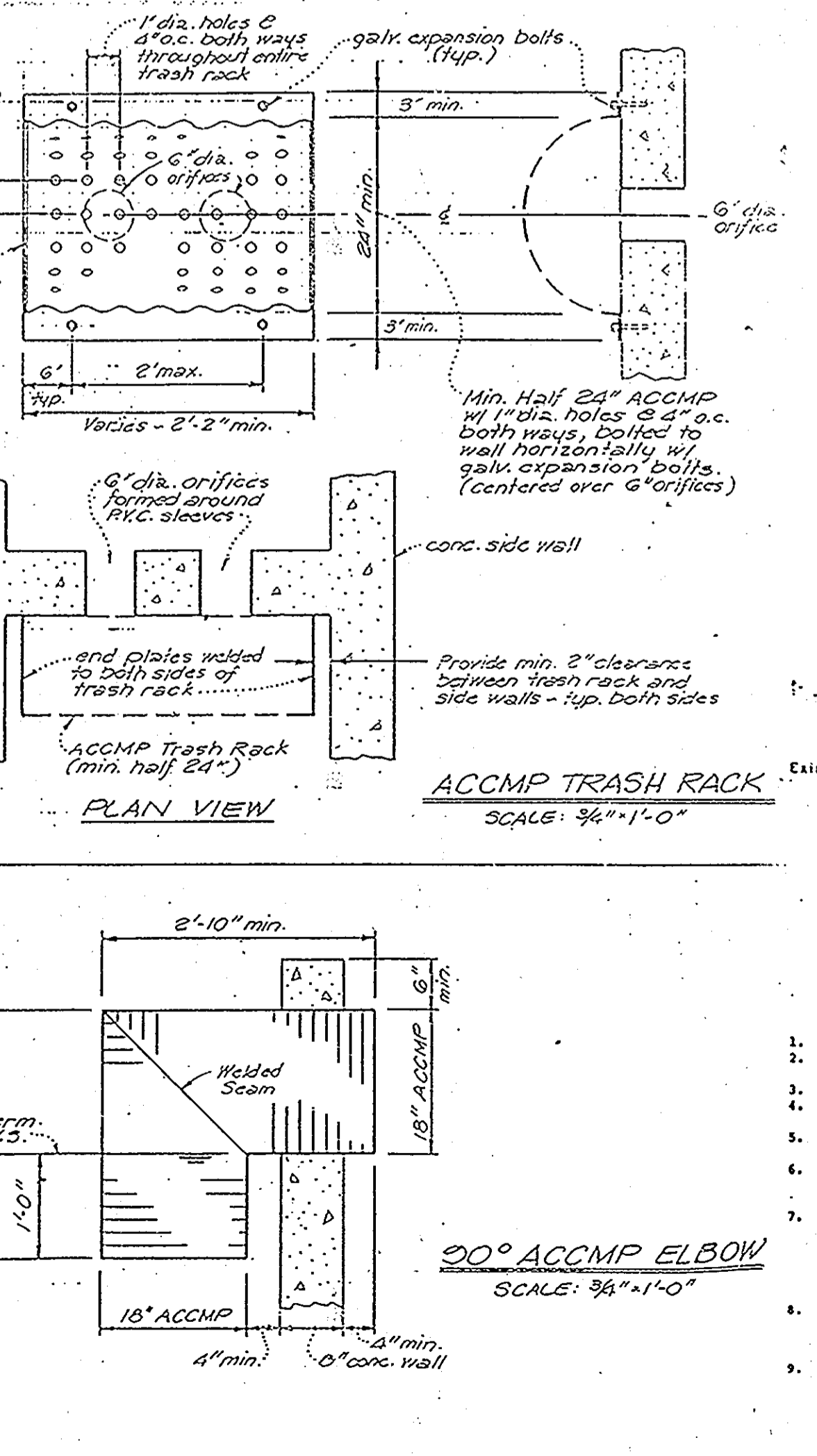
- Silt and debris shall not be allowed to enter the structures until contributing drainage areas have been permanently stabilized.
- All openings to structures shall be protected with the appropriate sediment control measures during construction.

INSPECTION NOTES:

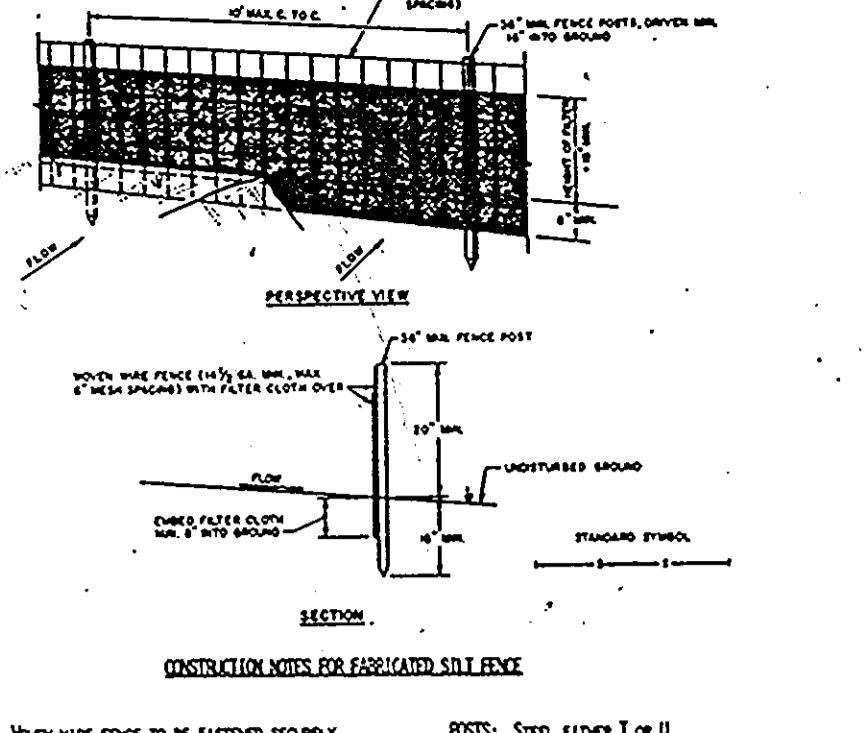
- Prior to start of construction on water quality structures, the Howard County Department of Public Works inspector must be called 48 hours in advance at 792-2630.
- The Howard County Department of Public Works inspector must be notified (792-2630) at each of the following stages:
 - Approval of subgrade for footings.
 - Formwork and steel set prior to pouring.
 - Structure sides formed and steel set prior to pouring.
 - Prior to top slab and manholes being set, Howard County Department of Public Works inspector must check structure and all debris and silt in structure removed.
 - When site is permanently stabilized and sediment control measures to protect inlet are to be removed.

DESIGN AND GENERAL NOTES:

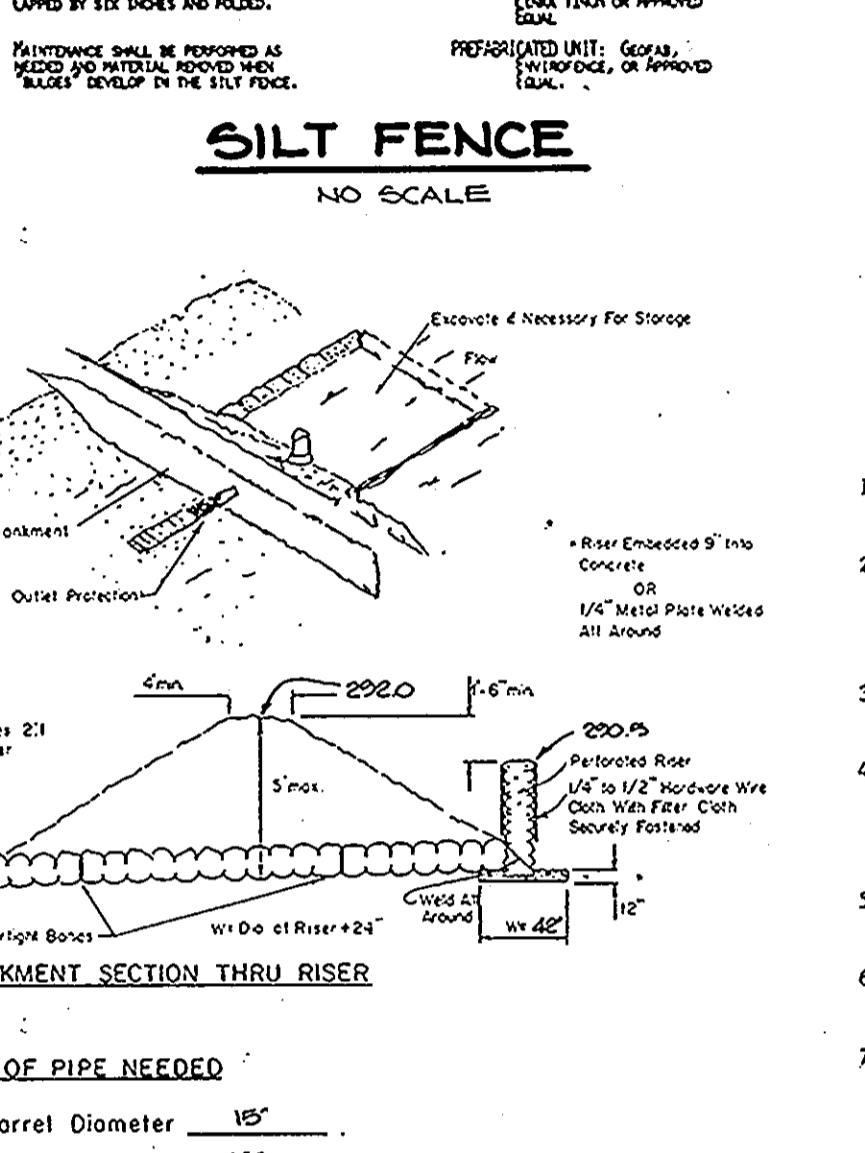
- Use poured-in place concrete for the entire structure.
- Refer to Maryland State Highway Administration for materials and methods of construction.
- Wall thickness shall be as follows:
 - Minimum 8 inches thick for the first 3'-0" of depth, 12 inch thick walls between 3'-0" and 12'-0" of depth and 16 inch thick walls for depth greater than 12'-0". Depth to be measured from top of top slab to crown of outgoing pipe.
 - f'c = 3,500 psi at 28 days.
 - All reinforcing steel to be ASTM A615, GR.60.
 - For details concerning throat openings, refer to Howard County Standard Detail SD.4.01.
 - For details not noted in this standard, refer to Howard County Standard Detail SD.4.01.
 - The top 4 inches of walls may be brick masonry for leveling, if required. Brick masonry shall comply with the latest S.M.A. specification.
 - When grate opening is used, refer to the appropriate S.M.A. Standard for details. Details shall be shown on the plans.
 - When inside width of structure is greater than 4'-0", reinforcing shall be revised as subject.
 - When structure is subject to traffic loading, reinforcing shall be designed for the appropriate traffic loads. Design loads shall be indicated on the plan.
 - All inlets and incoming pipes shall be checked for possible backwater or tailwater problems.



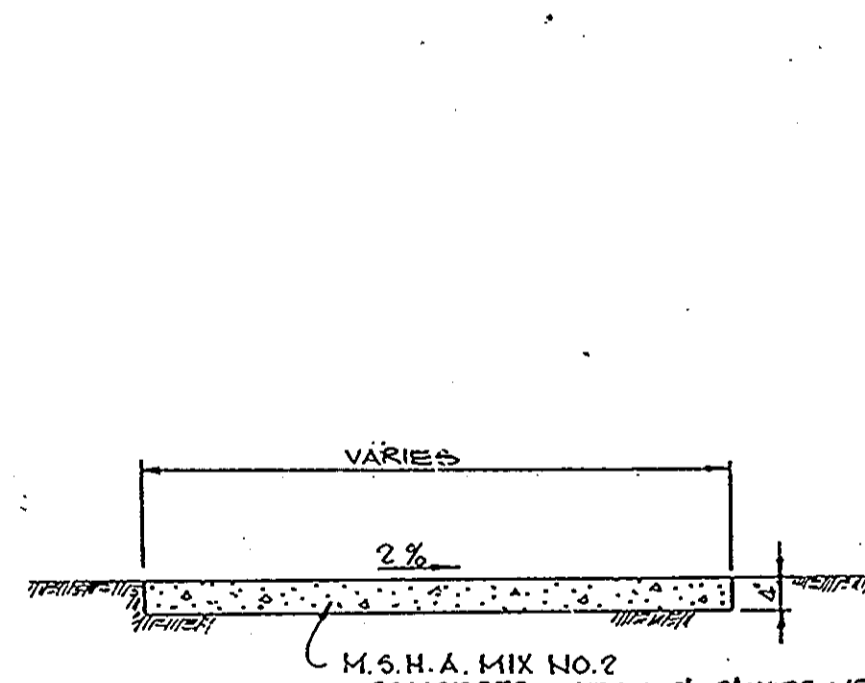
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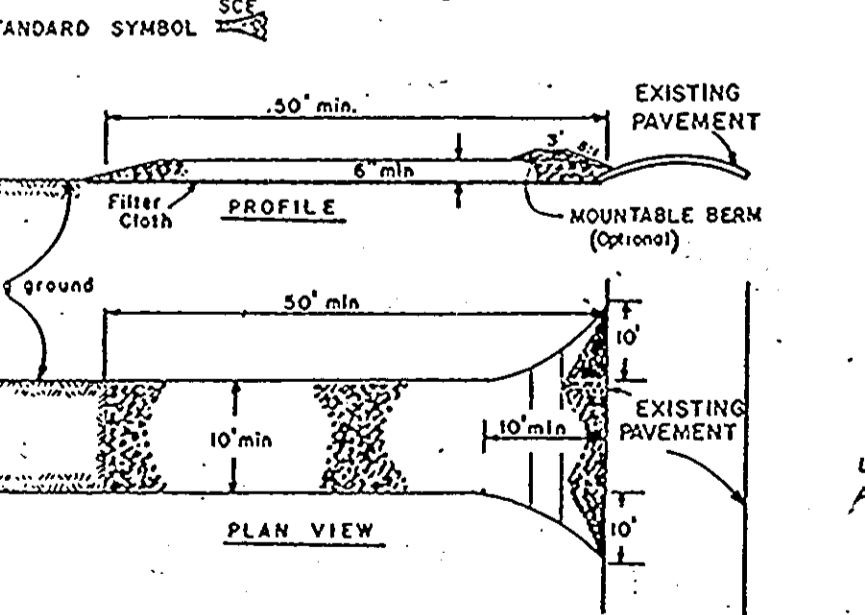
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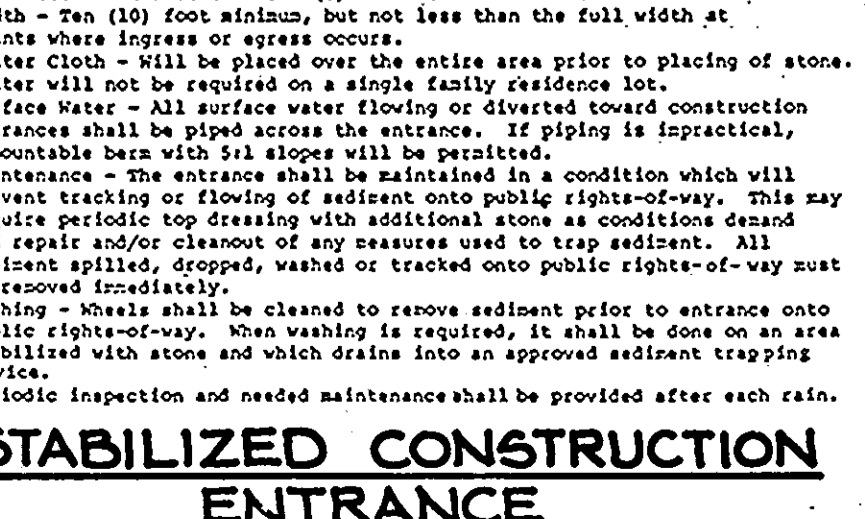
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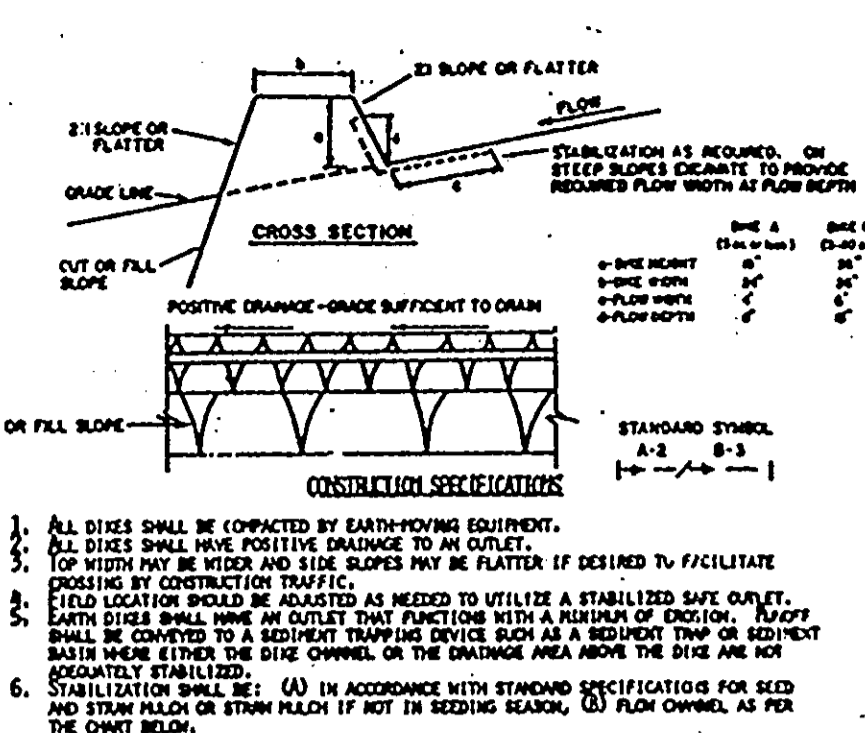
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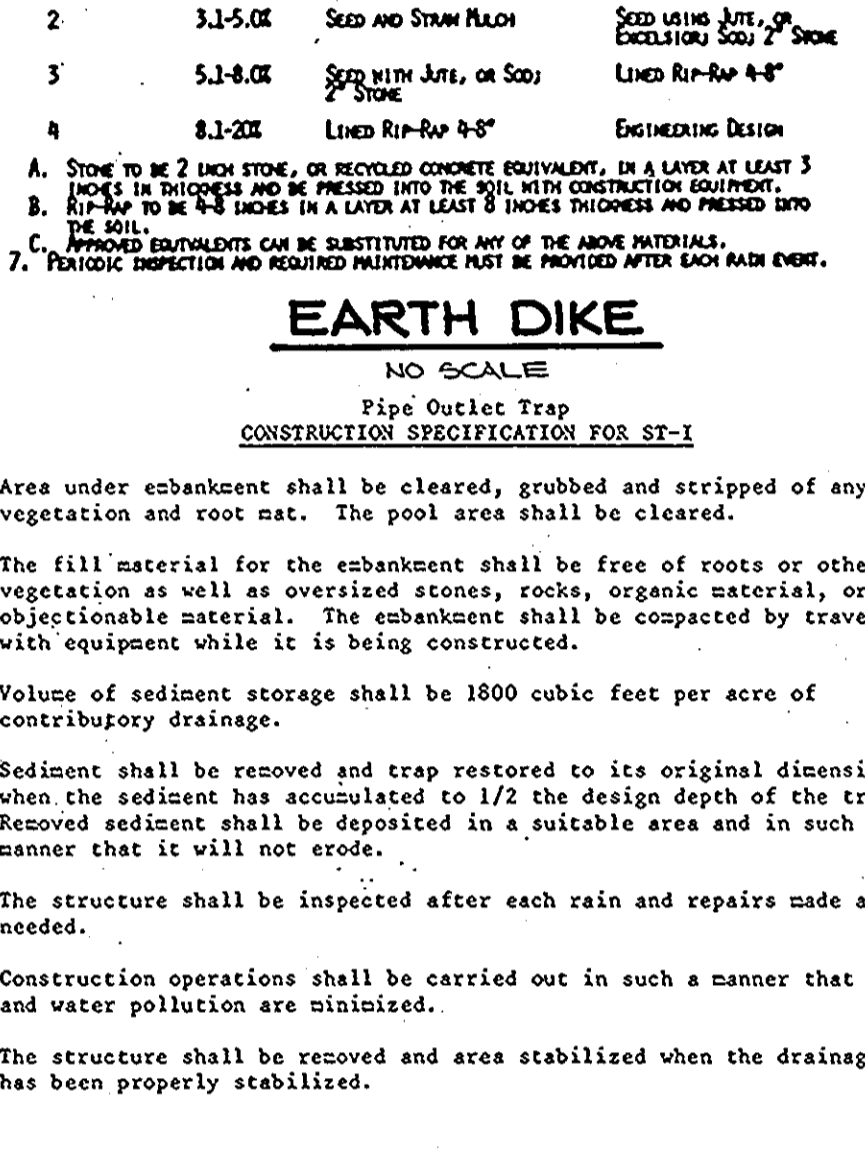
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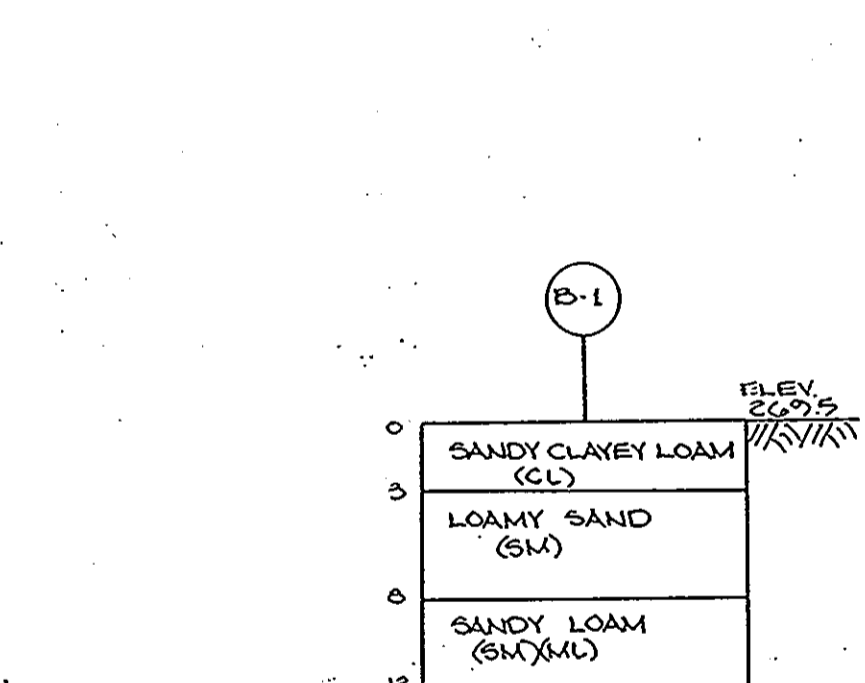
SWM BORING LOGS
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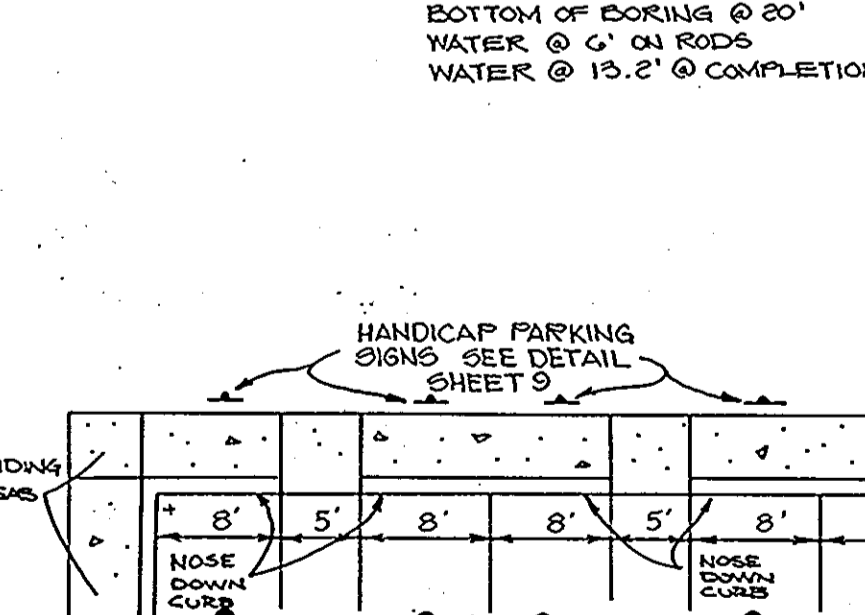
STONE OUTLET SEDIMENT TRAP
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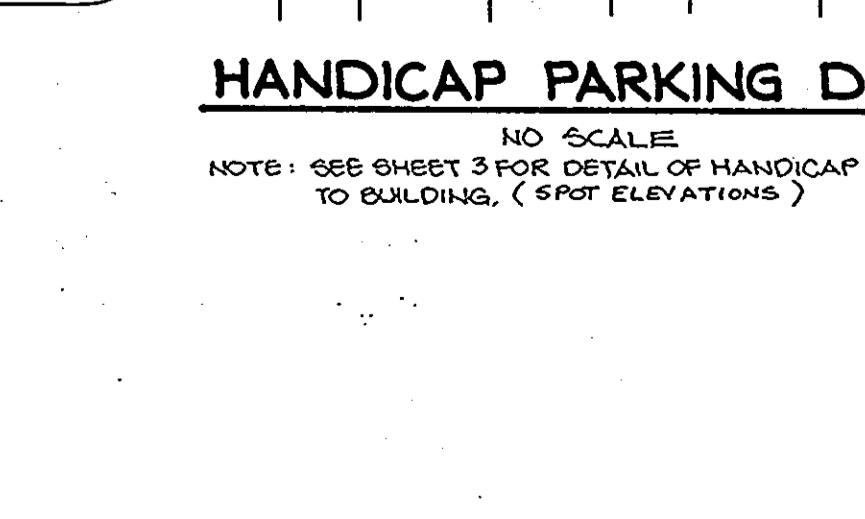
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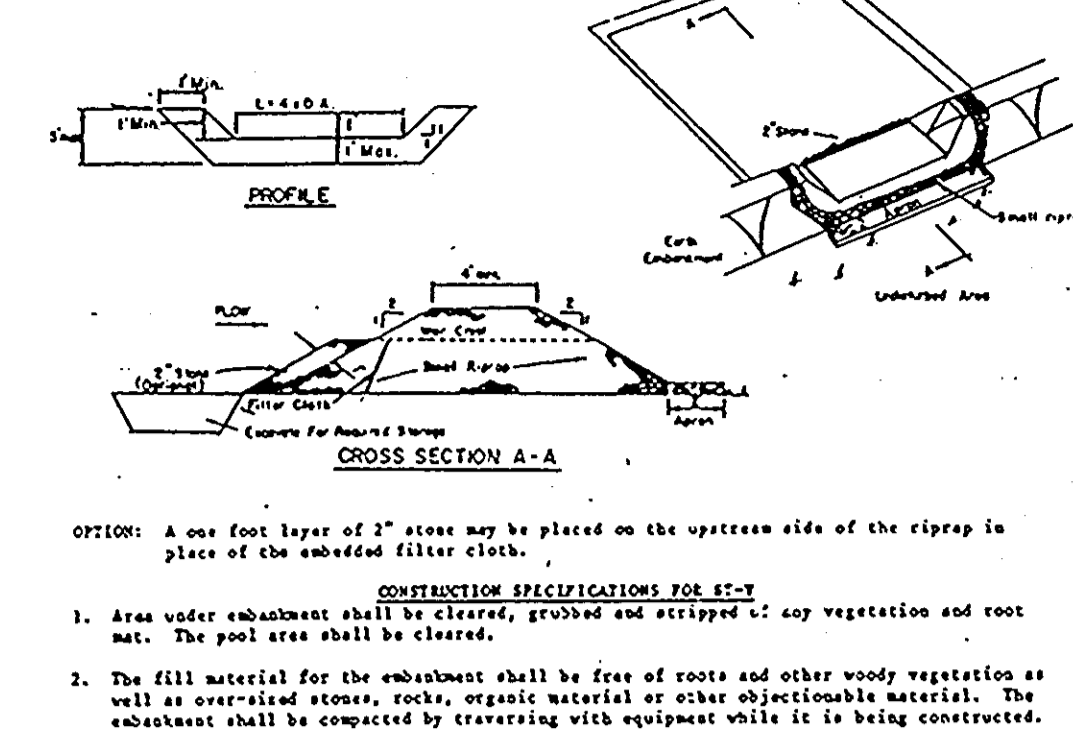
CONSTRUCTION SPECIFICATIONS
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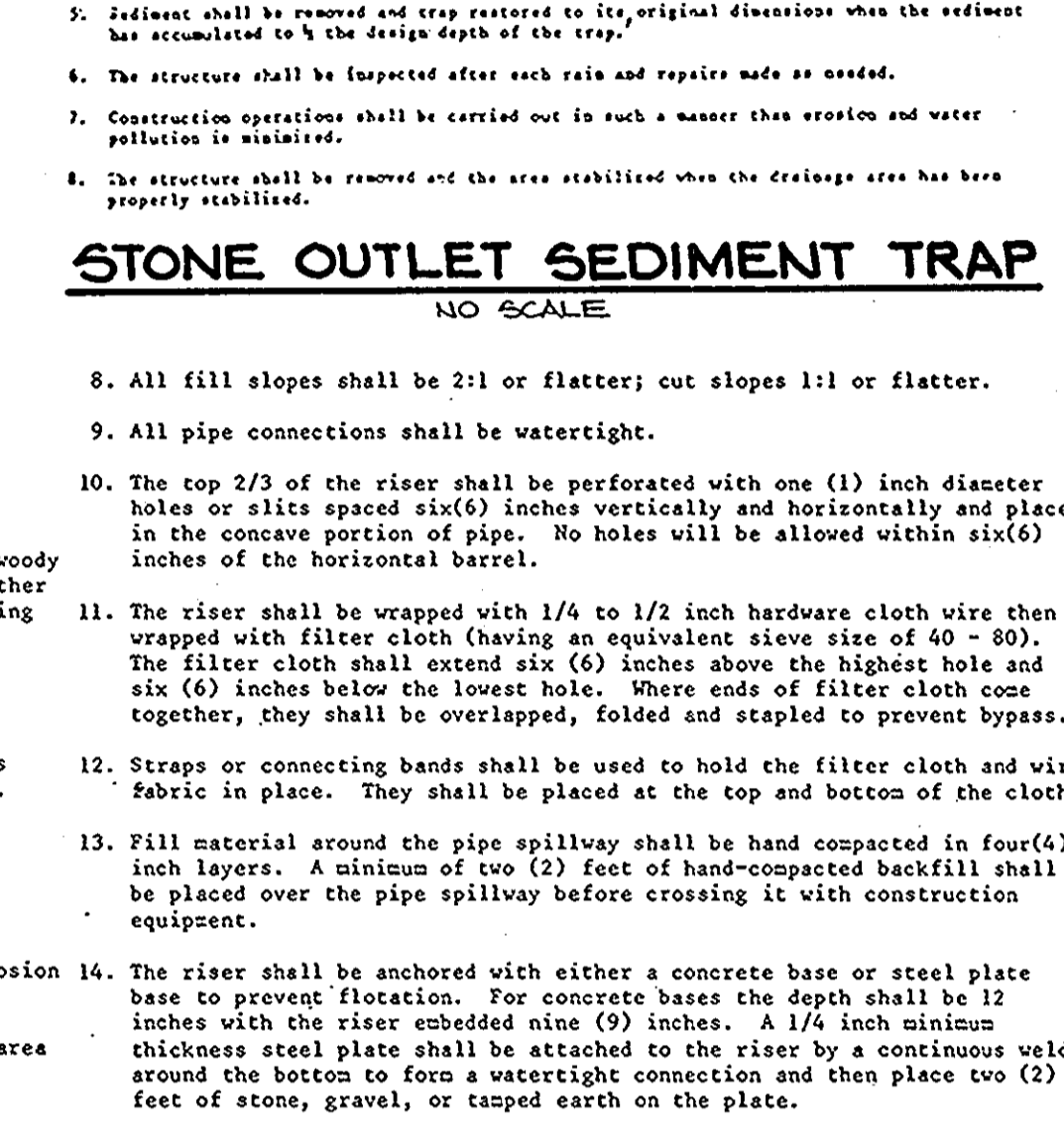
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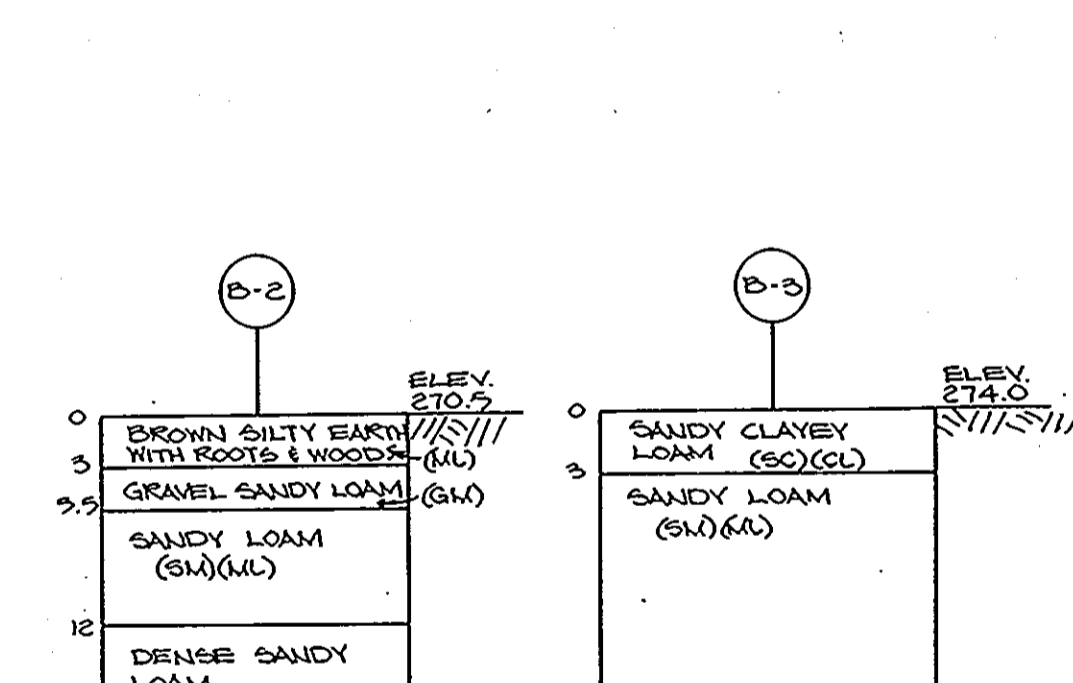
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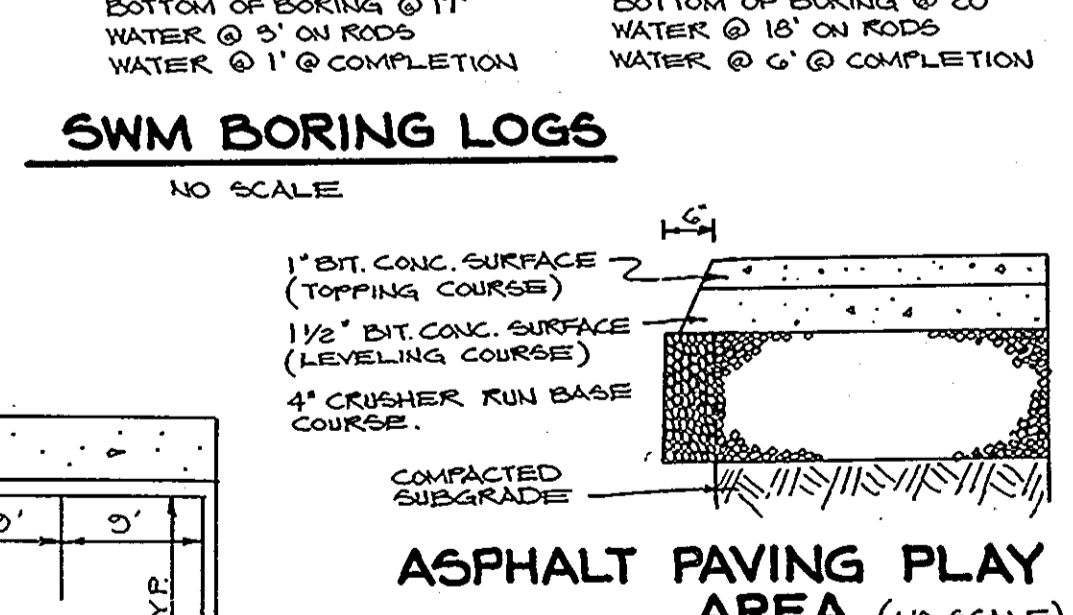
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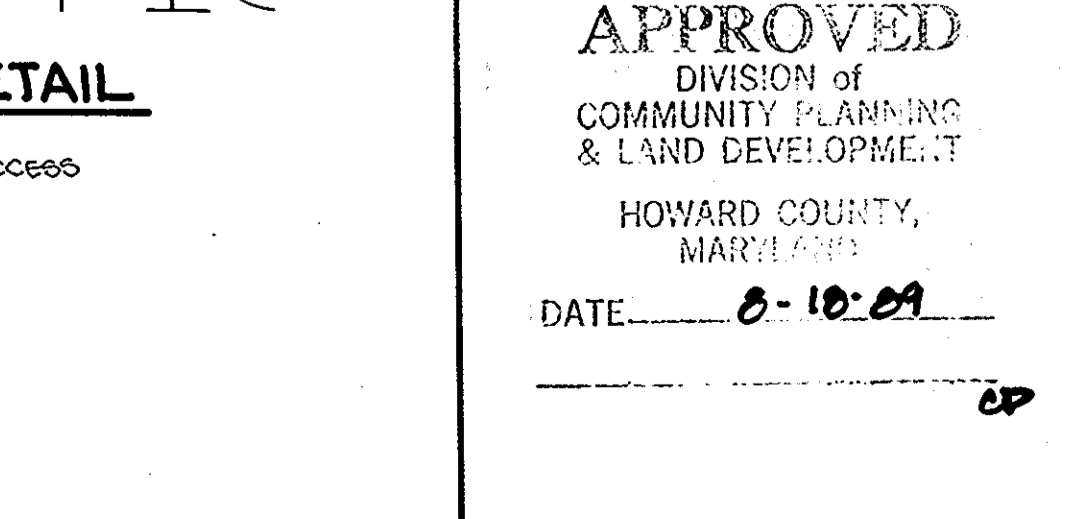
CONSTRUCTION SPECIFICATIONS
NO SCALE



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CONSTRUCTION SPECIFICATIONS
NO SCALE

BY THE DEVELOPER:

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Cochran Conley Young 9/24/89
DEVELOPER DATE

BY THE ENGINEER:

"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."

Arthur E. Muegge 8-28-89
ENGINEER 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.

James M. Helm 8-31-89
U.S. SOIL CONSERVATION SERVICE DATE

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.

Robert J. Zichner 8-31-89
HOWARD S.O.D. DATE

APPROVED: HOWARD COUNTY DEPT. OF PLANNING AND ZONING.

Ulrich 9-10-89
DIRECTOR DATE

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.

James M. Helm 9-11-89
DIRECTOR DATE

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.

James M. Helm 9-11-89
DIRECTOR DATE

BOARD OF EDUCATION OF HOWARD COUNTY
10910 ROUTE 108
ELLCOTT CITY, MARYLAND 21043
(301) 992-0500

PROJECT: MAYFIELD WOODS MIDDLE SCHOOL
A HOWARD COUNTY, MARYLAND PUBLIC SCHOOL

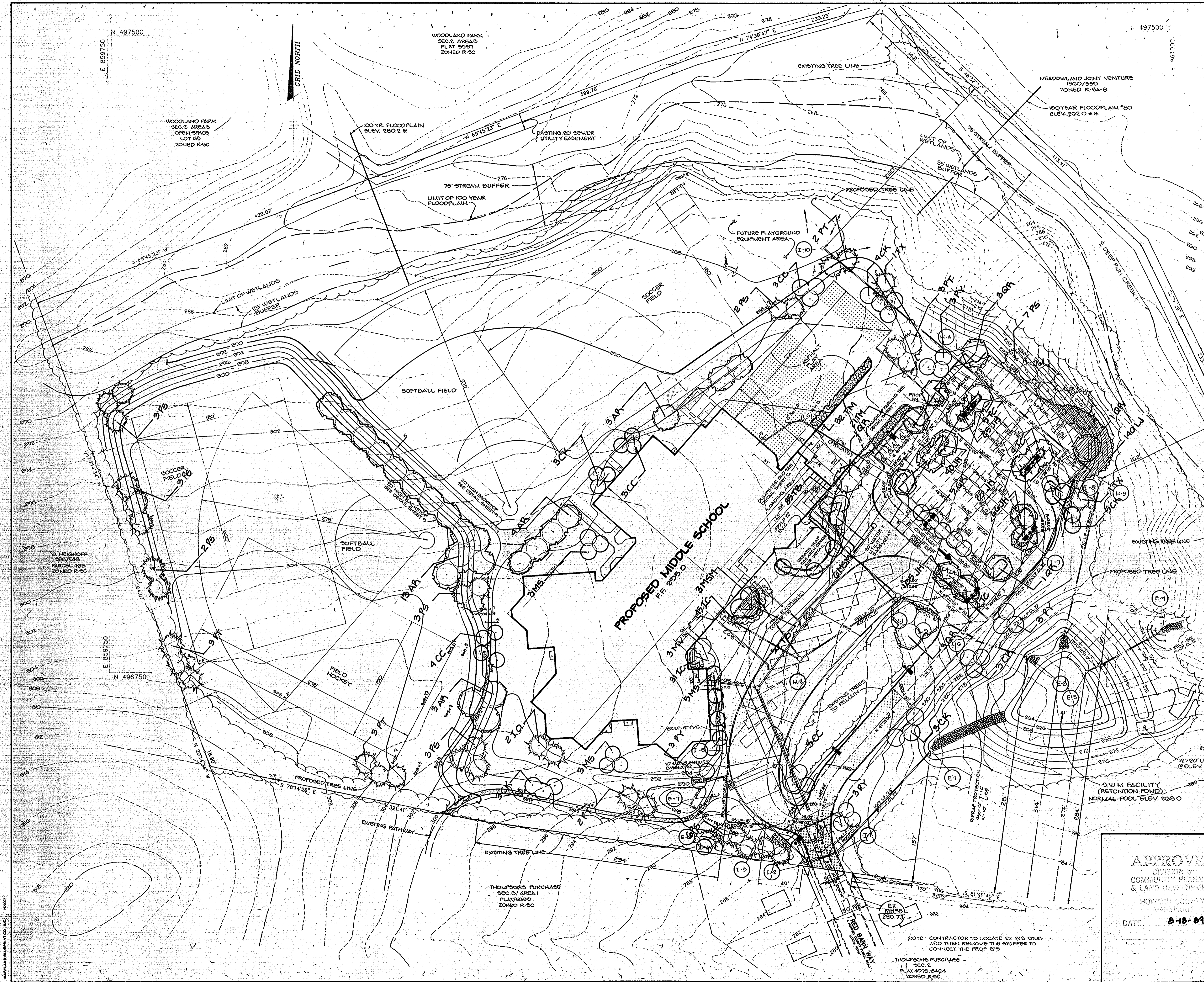
AREA: TAX MAP NO. 37 PARCEL 123 ZONED R-SC & R-SA-8
1st ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

TITLE: DETAIL SHEET

RIEMER MUEGGE & ASSOCIATES, INC.
A Land Planning, Engineering and Consulting Firm
3105 North Ridge Road Ellicott City, Maryland 21043
301-461-2690 FAX: 301-750-3176

DATE: 8-10-89

DESIGNED BY: C.J.R.
DRAWN BY: D.O.S.
PROJECT NO: 57300
DATE: JULY 5, 1989
SCALE: AS SHOWN
DRAWING NO. 7 OF 2



KEY	NAME	SIZE	REMARKS	QTY
AR	ACEB RUBBER Red Maple	2-2 1/2" Cal.	Full Crown	25
CC	CERCIS CANADENSIS Canadian Redbud	6-8"	3.5 B	10
CK	CORUS KOSA Kousa Dogwood	6-8"	3.5 B	10
IC	ILEX CREATA 'HELLER' Heller Japanese Holly	15-18" Spread	Cont.	70
IO	ILEX GRACA American Holly	6-8"	3.5 B, One Male, One Female	0
JM	JUNIPERUS HORIZONTALIS 'MINIMA COMPACTA' Compact Minima Juniper	15-18" Spread	Cont.	20
LJ	LONICERA JAPONICA 'PURPUREA' Purple Heart Honeysuckle	3 gal. cont.	3" c.c.	140
MS	MAGNOLIA STELLATA Star Magnolia	6-8"	3.5 B	11
NSH	MAGNOLIA STELLATA Star Magnolia	6-8"	3.5 B	0
NV	MAGNOLIA VICTORIA Sweet Bay Magnolia	6-8"	3.5 B	0
PS	PIRUS STURBO White Pine	6-8"	3.5 B	10
PT	PIRUS THURBERGII Japanese Black Pine	6-8"	3.5 B	10
PT	PRUNUS YAMONIS Yoshino Cherry	6-8"	3.5 B	12
QR	QUERCUS RUBRA Red Oak	2-2 1/2" cal.	3.5 B	0
TC	TILIA CORDATA 'GREENPINE' Greenpina Littleleaf Linden	7-2 1/2"	3.5 B	11
TH	TAXUS MEDIA 'MUFFLETT' Nuttall's Yew	30-35" H.	3.5 B	20
TR	TAXUS BACATA SPANISH SPREADING English Yew	18-24" Spread	3.5 B	100
TX	TRICHOCARPUS Canadian Redcedar	6-8"	3.5 B	0

NOTE: SEE PLANTING DETAILS - SHEET 9 OF 9

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT.
Joyce Egan 8/13/89
 COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY DEPT. OF PLANNING AND ZONING.
W. H. ... 9/11/89
 DIRECTOR DATE
Mark ... 9/11/89
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
J. ... 9/11/89
 DIRECTOR DATE
M. ... 9-11-89
 CHIEF, BUREAU OF ENGINEERING DATE

DATE	NO.	REVISION

OWNER/DEVELOPER
 BOARD OF EDUCATION OF HOWARD COUNTY
 10910 ROUTE 108
 ELLICOTT CITY, MARYLAND 21043
 (301) 992-0500

PROJECT: MAYFIELD WOODS MIDDLE SCHOOL
 A HOWARD COUNTY, MARYLAND PUBLIC SCHOOL
 AREA: TAX MAP NO. 37 PARCEL 123 ZONED R-5C & R-5A-B
 1ST ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

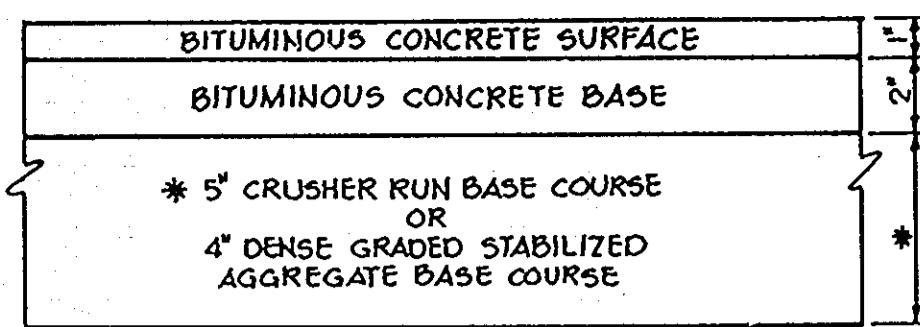
TITLE: LANDSCAPE PLAN

RIEMER MUEGGE & ASSOCIATES, INC.
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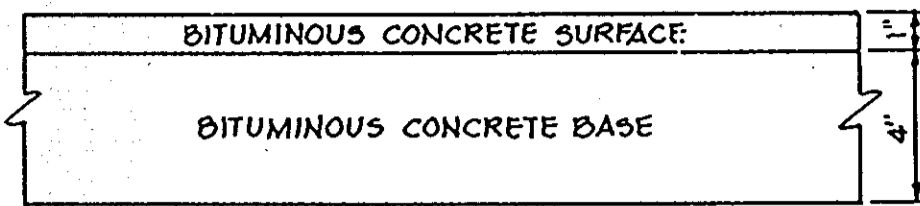
APPROVED
 DIVISION OF COMMUNITY PLANNING & LAND DEVELOPMENT
 HOWARD COUNTY MARYLAND
 DATE: 8-18-89

DESIGNED BY D.D.
 DRAWN BY Z.L.H./D.L.G.
 PROJECT NO. 57300
 DATE JULY 5, 1983
 SCALE: 1" = 50'
 DRAWING NO. 6 OF 9

8-24-89
 W.P. 89-150
 MELANIE MOBER 551
 LANDSCAPE ARCHITECT



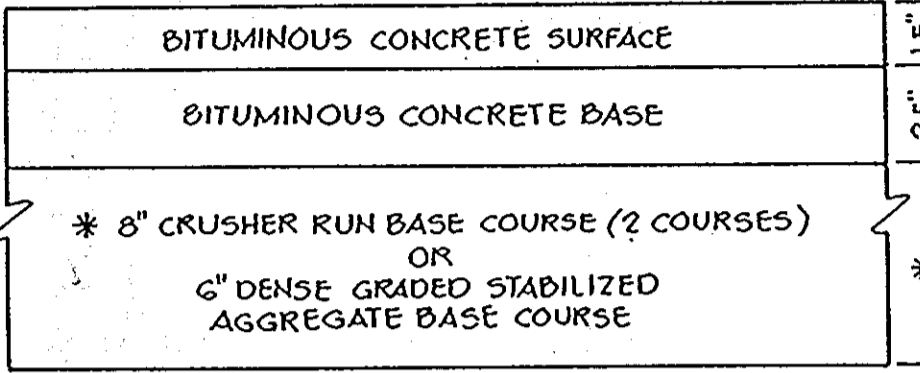
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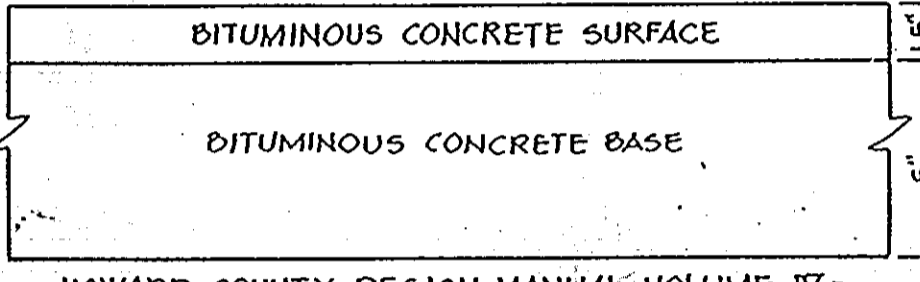
HOWARD COUNTY DESIGN MANUAL VOLUME IV - STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (DRAWING R-2.01)

P-1 PAVING

NO SCALE



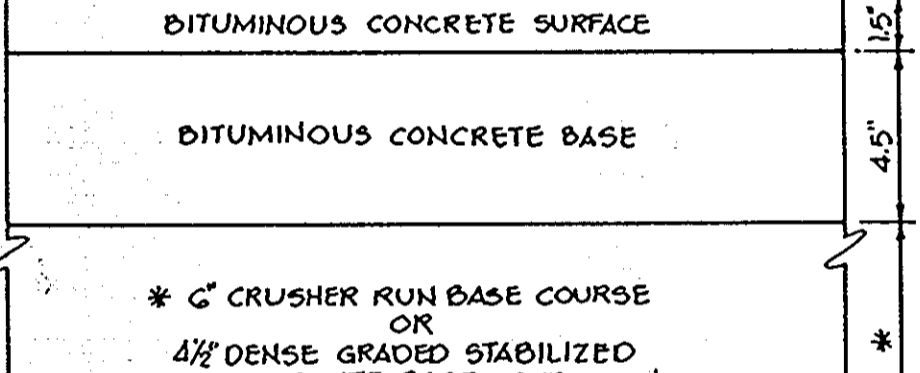
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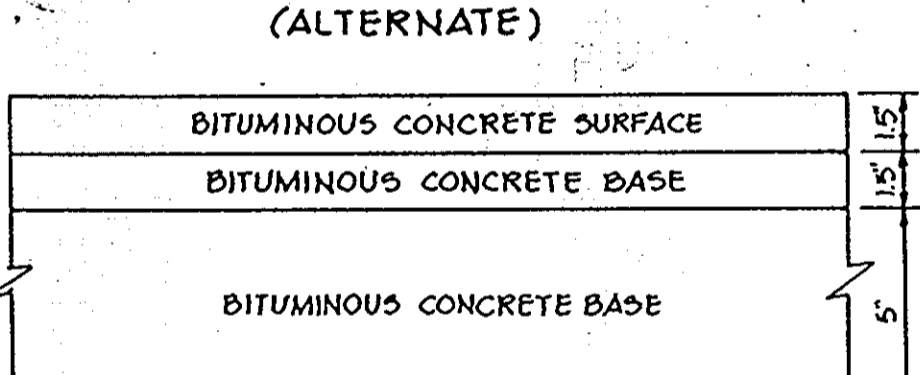
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P-2 PAVING

NO SCALE



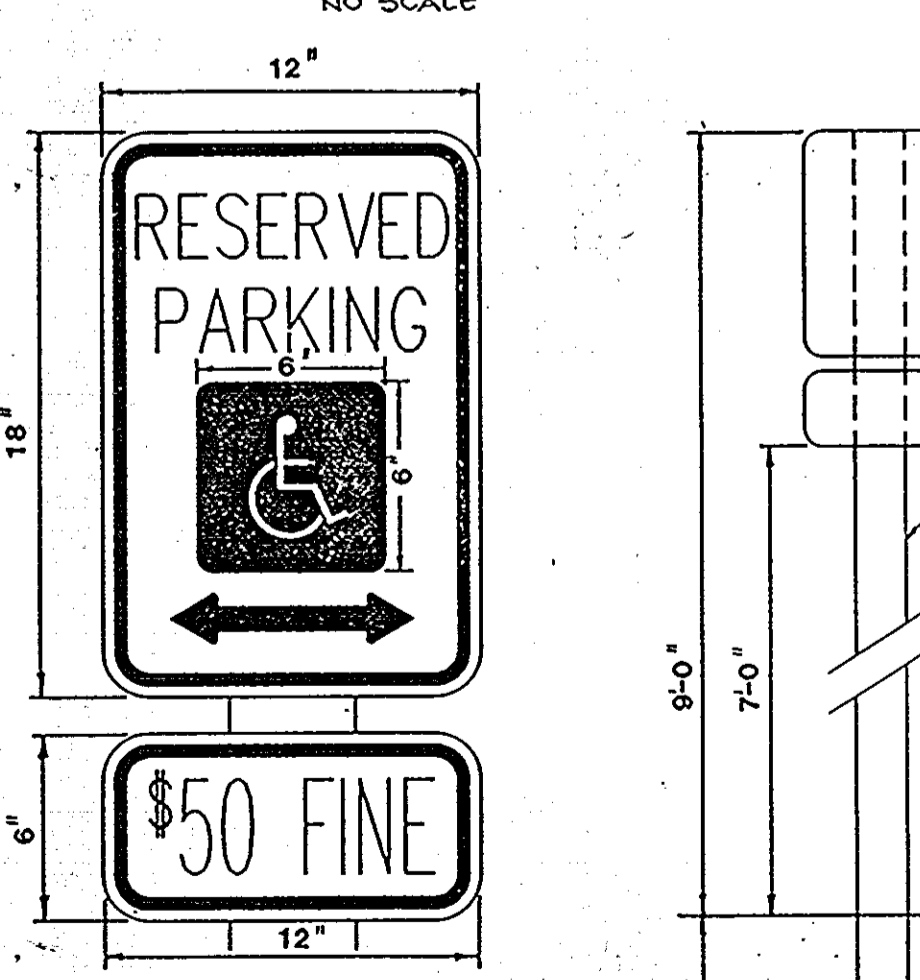
(ALTERNATE)



HOWARD COUNTY DESIGN MANUAL VOLUME IV - STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (DRAWING R-2.01)

P-3 PAVING

NO SCALE

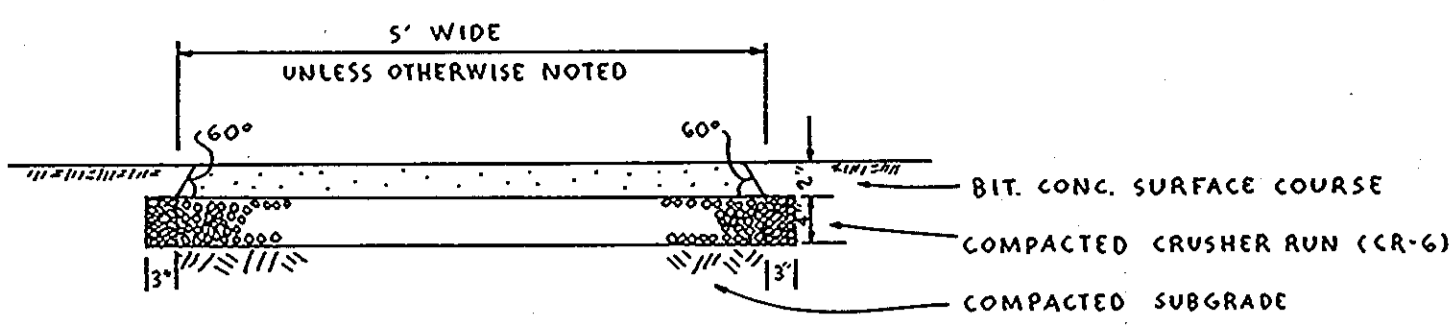


LEGEND AND BORDER - GREEN
WHITE STROKE ON BLUE BACKGROUND
BACKGROUND - WHITE

NOTE: DISTANCE FROM GROUND TO BOTTOM OF SIGN TO BE 7'

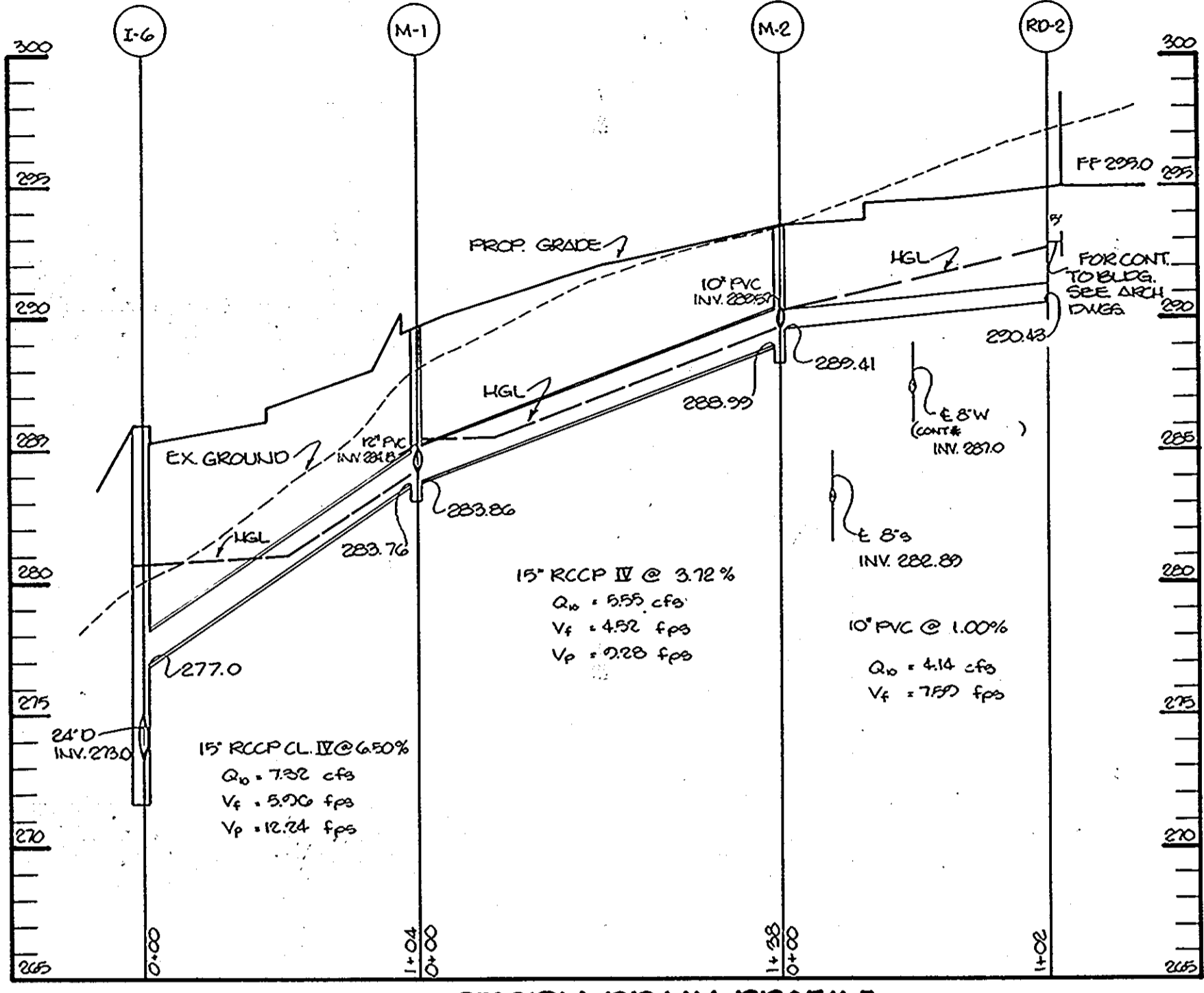
HANDICAP SIGN DETAIL

NO SCALE



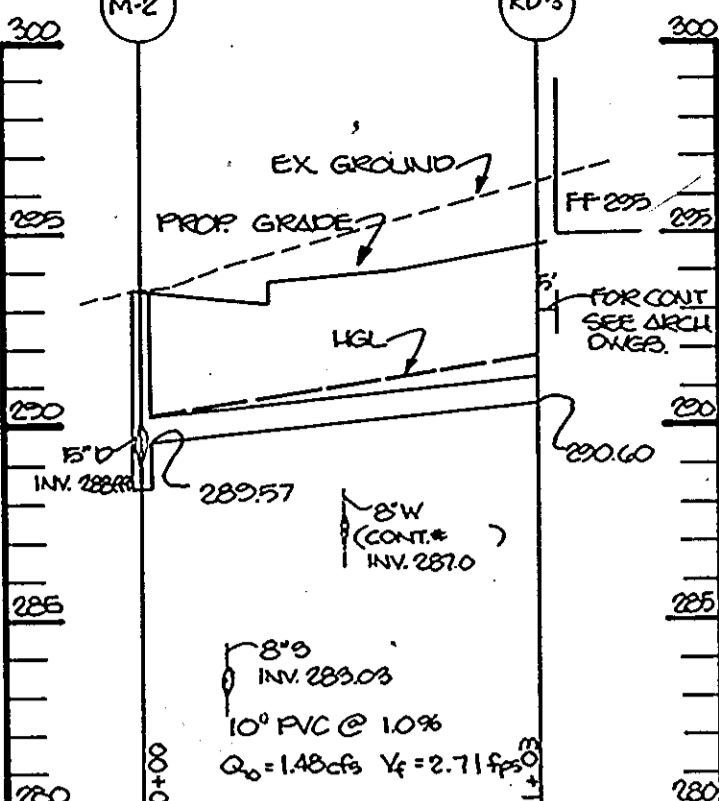
MACADAM PATHWAY DETAIL

NO SCALE



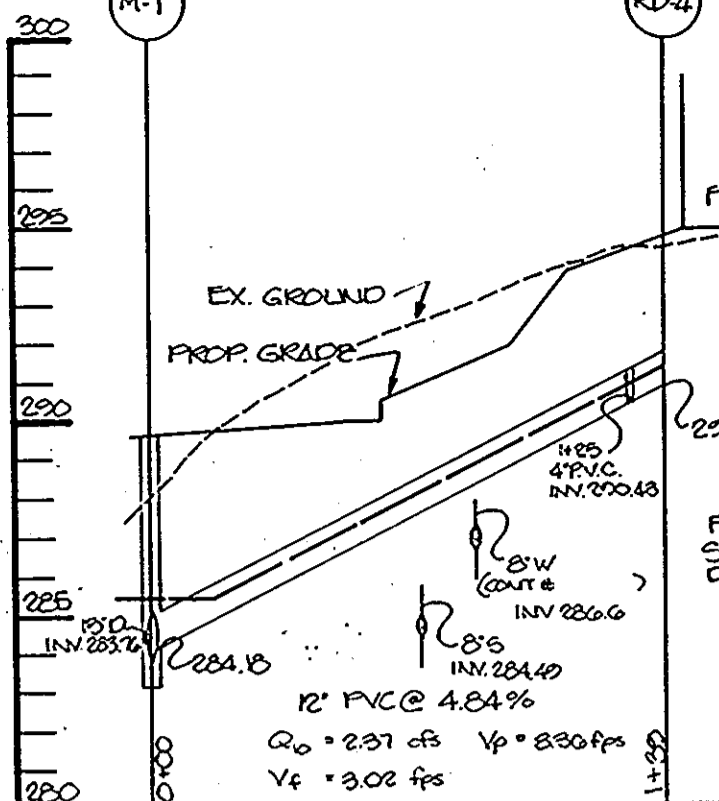
STORM DRAIN PROFILE

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



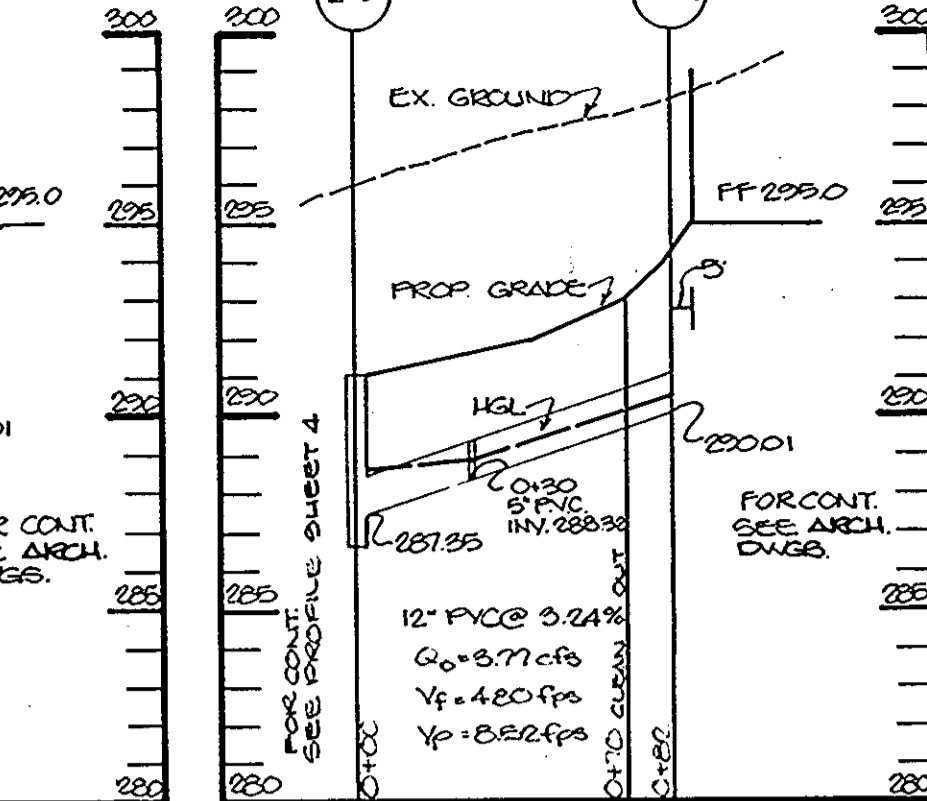
ROOF DRAIN PROFILE

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



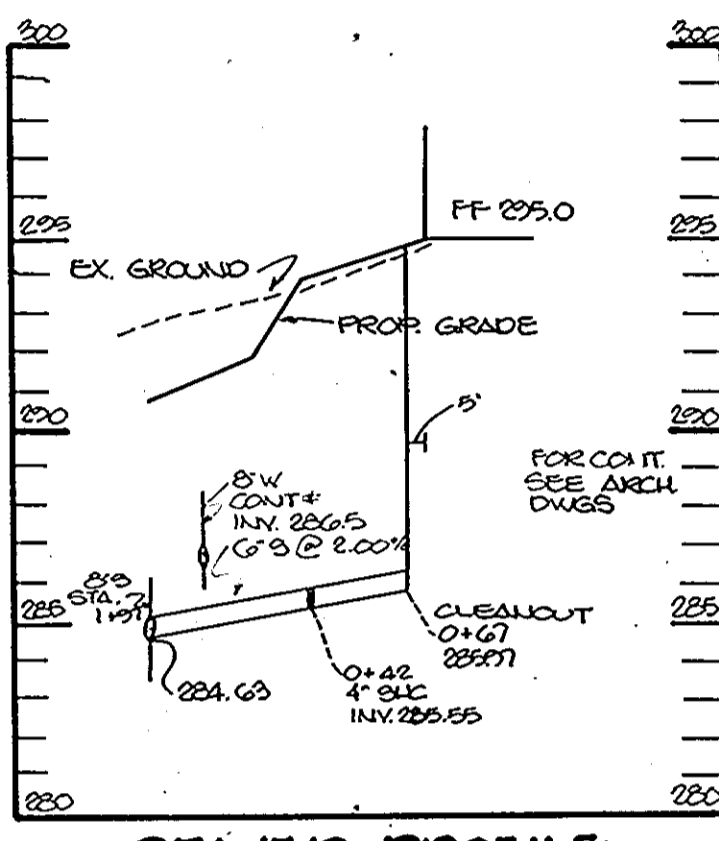
ROOF DRAIN PROFILE

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



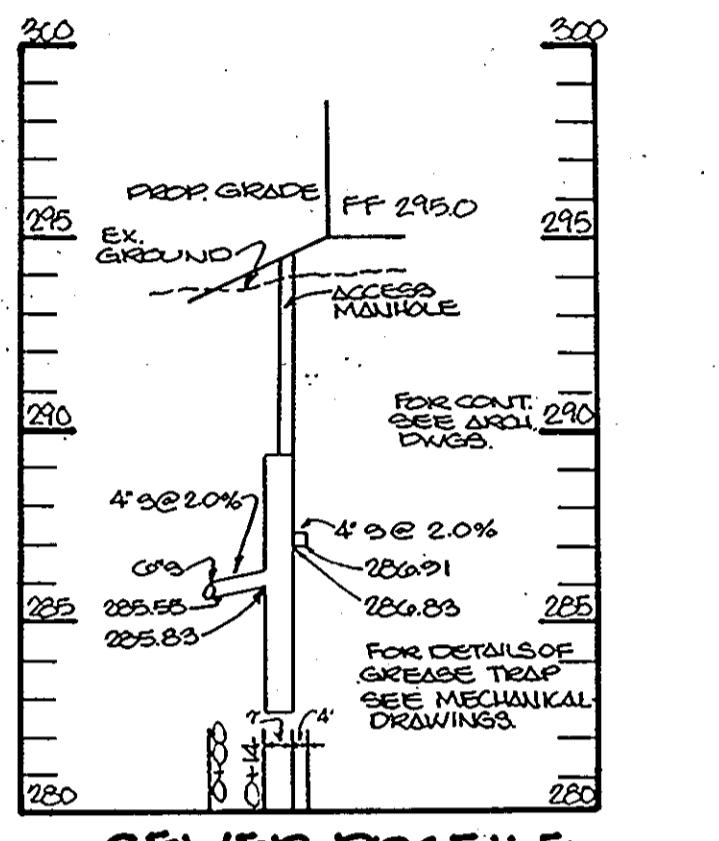
ROOF DRAIN PROFILE

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



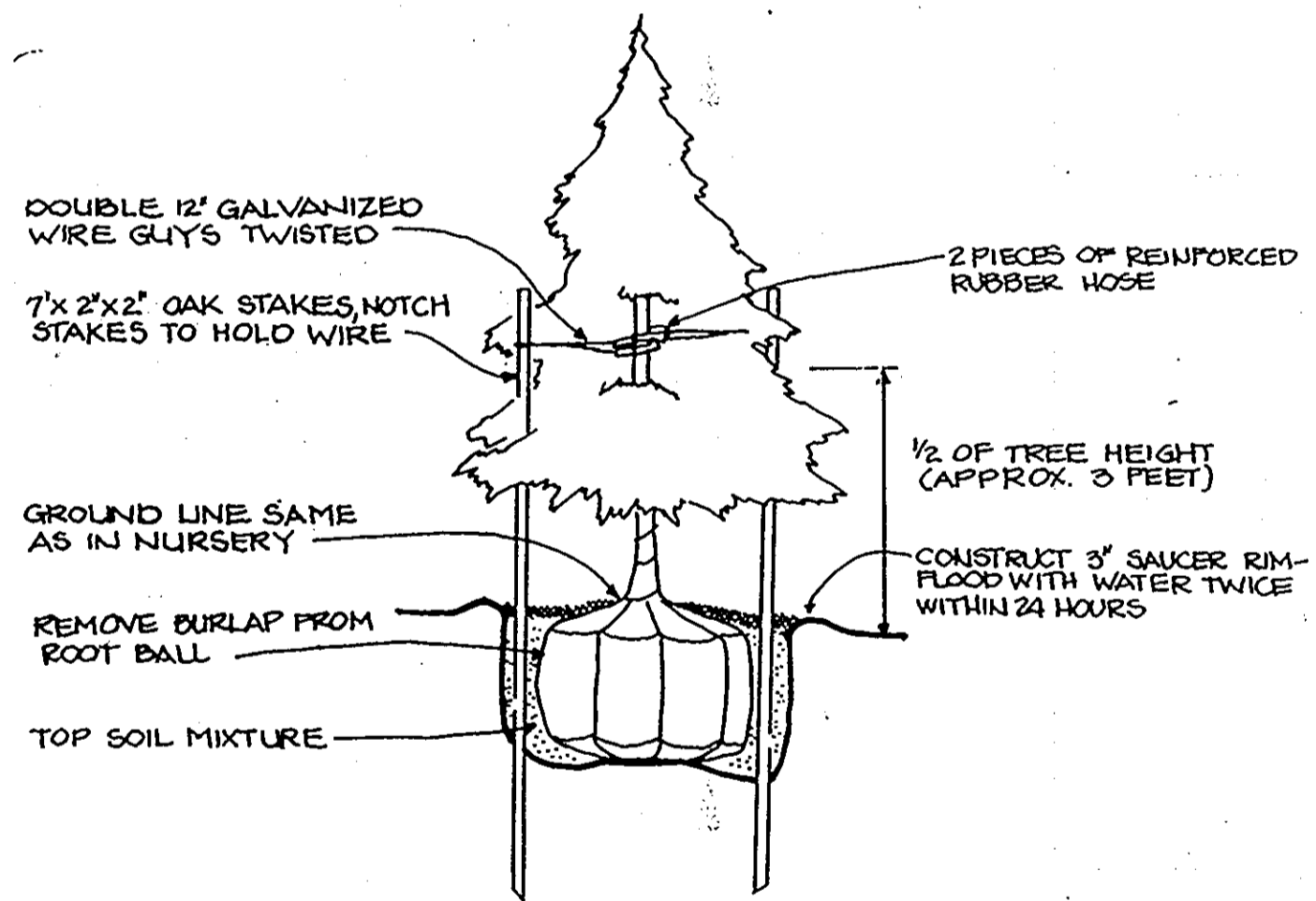
SEWER PROFILE

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



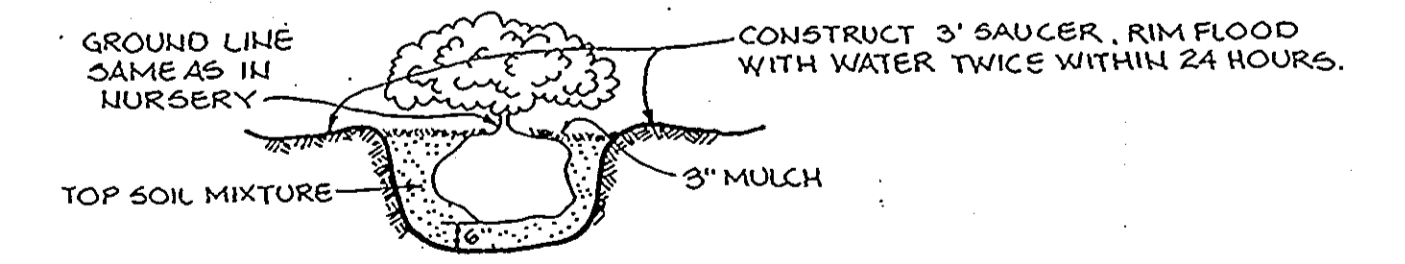
SEWER PROFILE

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



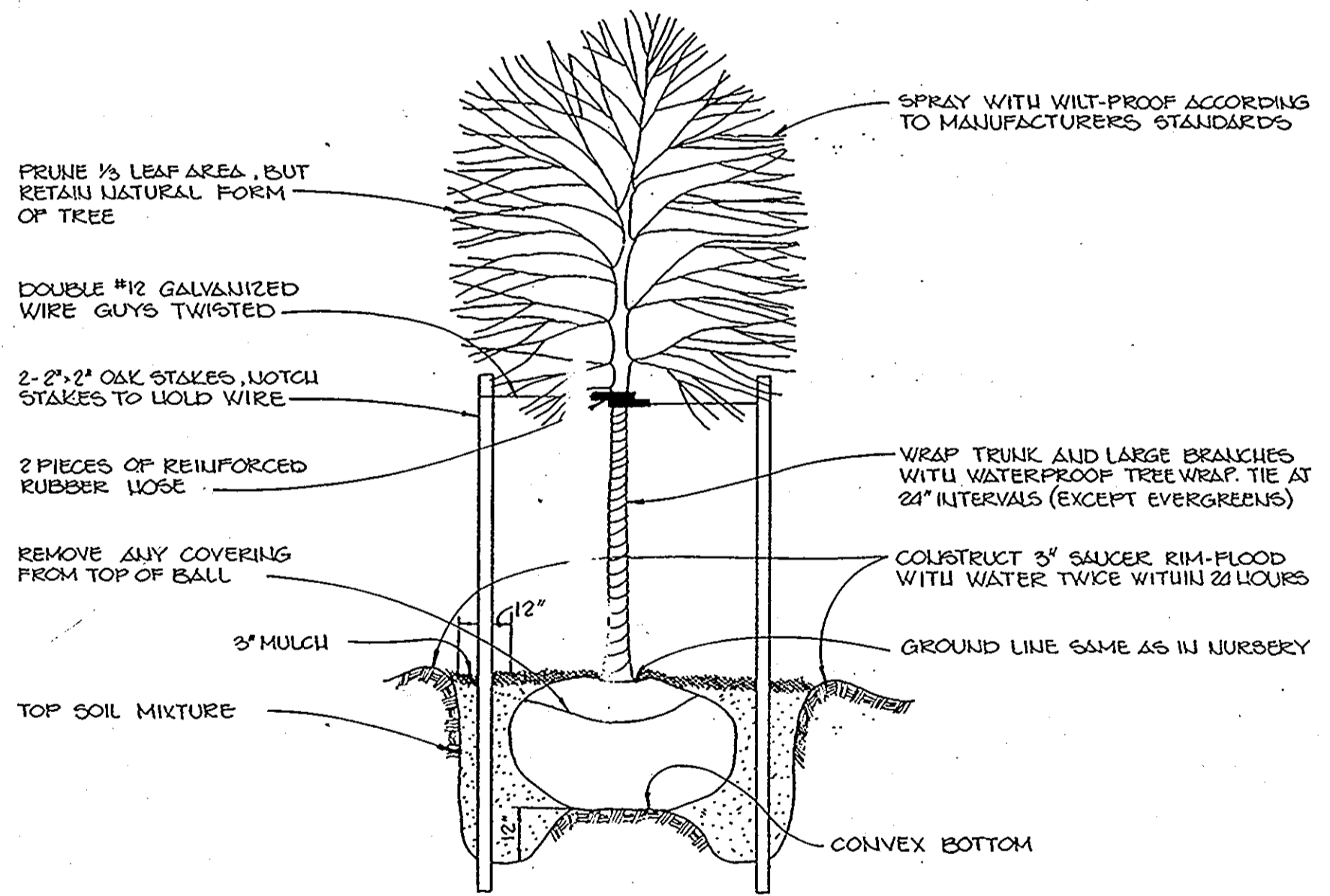
EVERGREEN PLANTING DETAIL

NO SCALE



SHRUB PLANTING DETAIL

NO SCALE



TREE PLANTING DETAIL

NO SCALE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.

[Signature] 9-13-89
COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY DEPT. OF PLANNING AND ZONING.

[Signature] 9-18-89
DIRECTOR DATE

[Signature] 9-11-89
CHIEF, DIVISION OF COUNTY PLANNING AND LAND DEVELOPMENT DATE

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DIRECTOR DATE

[Signature] 9-11-89
CHIEF, BUREAU OF ENGINEERING DATE

DATE	NO.	REVISION
OWNER/DEVELOPER		
BOARD OF EDUCATION OF HOWARD COUNTY 10310 ROUTE 108 ELLICOTT CITY, MARYLAND 21043 (301) 992-0500		
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AREA TAX MAP NO. 57 PARCEL 123 ZONED R-50 P-R-5A-B 1 ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND		
TITLE: DETAIL SHEET		

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APPROVED
DIVISION OF COUNTY PLANNING AND ZONING
DATE: 8-18-89

WP-89-150
DESIGNED BY: C.J.R.
DRAWN BY: W.A.D.
PROJECT NO: 57300
DATE: JULY 5, 1989
SCALE: AS SHOWN
DRAWING NO. 02 OF 02



ARTHUR E. MUEGGE # 8707