

HOWARD COUNTY

Capital Project #D-1160

Mount Hebron High School

Water Quantity Improvement Project

Storm Water Management Division
Bureau Of Environmental Services

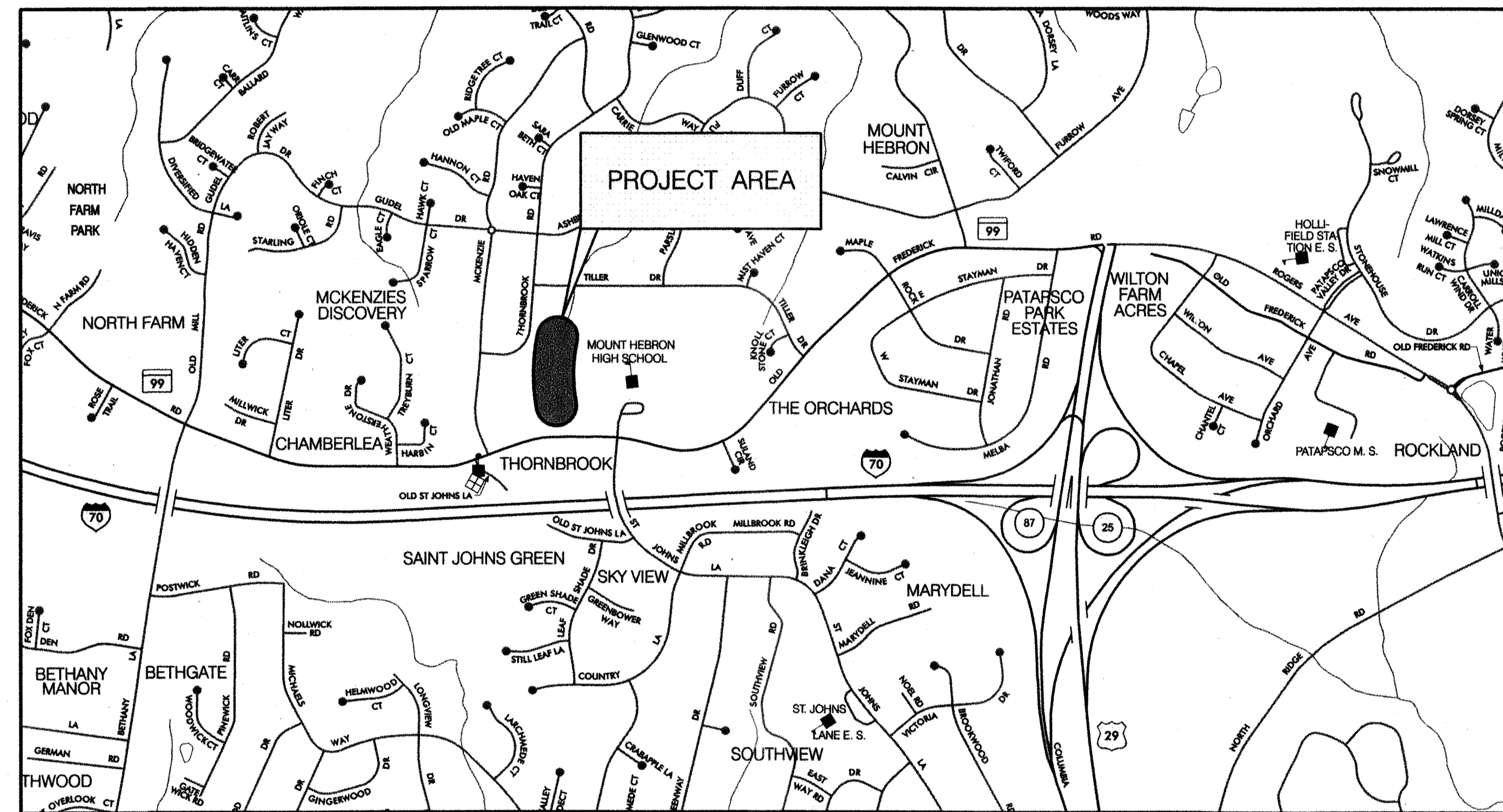
Approved M.H.S.

INDEX OF SHEETS

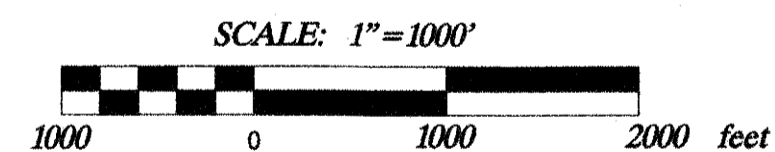
SHEET NO.	TITLE
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2	GEOMETRY SHEET
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4	TYPICAL SECTIONS AND PROFILE
5	TYPICAL DETAILS AND PIPE PROFILES
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LEGEND

PROPOSED MEDIAN BARRIER	
ELECTRICAL HAND BOX - SIGNALS	H.B.
FLOW LINE	
STATE, COUNTY OR CITY LINES	
PROPOSED TRAFFIC BARRIER	
EXISTING TRAFFIC BARRIER	
PROPOSED FENCE LINE	
EXISTING FENCE LINE	
RIGHT OF WAY LINE	
EXISTING ROADWAY	
BASE OR SURVEY LINE	
TRAVERSE POINT	
APPROXIMATE LIMITS OF CUT AND/OR FILL	
PROPOSED MAJOR CONTOUR	180
PROPOSED MINOR CONTOUR	181
LIMIT OF DISTURBANCE	100
EXISTING MAJOR CONTOURS	190
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EXISTING PIPE/CULVERT	
EXISTING DROP INLET	
WETLAND	
HEDGE /TREE LINE	
BUSH /TREE	
CONIFEROUS TREE	
LIGHT POLE	



HORIZONTAL DATUM	NAD 83/91
VERTICAL DATUM	NAVD 88



GENERAL NOTES

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY PLUS MSHA STANDARDS AND SPECIFICATIONS IF APPLICABLE.
- THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST FIVE (5) WORKING DAYS PRIOR TO ANY WORK BEING DONE.
- THIS PLAN IS PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL.
- THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS /BUREAU OF ENGINEERING CONSTRUCTION INSPECTION DIVISION AT (410) 313-1880 AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE START OF WORK.
- SURVEY OF THIS SITE WAS PERFORMED BY AB CONSULTANTS, INC-DECEMBER 2009.
- THE COORDINATES SHOWN HEREON ARE BASED ON HOWARD COUNTY GEODETIC CONTROL, WHICH IS BASED UPON THE MARYLAND STATE PLANE COORDINATE SYSTEM. BENCHMARKS SHOWN HEREON WERE PROVIDED BY AB CONSULTANTS INC.
- WATERS OF THE US WERE DELINEATED BY McCORMICK TAYLOR DECEMBER 2009.
- OBSTRUCTIONS SHOWN ON THIS DRAWING ARE FOR THE CONVENIENCE OF THE CONTRACTOR ONLY AND McCORMICK TAYLOR DOES NOT WARRANT OR GUARANTEE THE CORRECTNESS OR COMPLETENESS OF THE INFORMATION GIVEN. THE CONTRACTOR MUST VERIFY SUCH INFORMATION TO HIS OWN SATISFACTION.
- THE EXISTING INFORMATION SHOWN ON THESE PLANS WAS TAKEN FROM THE BEST AVAILABLE SOURCES AND SHALL BE VERIFIED BEFORE STARTING CONSTRUCTION. THE HOWARD COUNTY DOES NOT GUARANTEE THE COMPLETENESS OR THE CORRECTNESS OF THE SHOWN INFORMATION.
- THE CONTRACTORS SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO THE CONTRACTOR'S OPERATION SHALL BE REPAIRED IMMEDIATELY. ALL UTILITIES SHALL HAVE A CLEARANCE BY A MINIMUM OF 6 INCHES VERTICALLY AND A MINIMUM OF 5 FEET HORIZONTALLY.
- SHOULD THE CONTRACTOR DISCOVER DISCREPANCIES BETWEEN THE PLANS AND FIELD CONDITIONS, THE CONTRACTOR SHALL NOTIFY McCORMICK TAYLOR IMMEDIATELY TO RESOLVE THE SITUATION.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES, AND SAFETY PRECAUTIONS AND PROGRAMS.
- SITE DEVELOPMENT DETAILS ARE REFERENCED FROM THE AS-BUILT PLANS FOR MT HEBRON HIGH SCHOOL SDP-71-049 AND SDP-97-146.
- A JOINT PERMIT APPLICATION HAS BEEN SUBMITTED TO THE MARYLAND DEPARTMENT OF THE ENVIRONMENT FOR THIS PROJECT. (TRACKING NUMBER 201061139)
- PROJECT IMPACTS INCLUDE WORK IN A USE 1-P STREAM. WORK MAY NOT BE CONDUCTED DURING THE PERIOD BETWEEN MARCH 1 THROUGH JUNE 15.

REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS

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

John R. Roberts
HOWARD SCD
DATE: 6/16/11

HOWARD COUNTY PUBLIC SCHOOL SYSTEM

Gregory Connor
GREGORY CONNOR, ASSISTANT MANAGER
GROUNDS SERVICES
DATE: 6-8-11

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NO. 32013, EXPIRATION DATE: 7/5/2011

DESIGN CERTIFICATION

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.

5-23-11
DATE
Amy L. Hribar
DESIGNER'S SIGNATURE
MARYLAND REGISTRATION NUMBER 32013
AMY L. HRIBAR
PRINTED NAME

OWNER'S/DEVELOPER'S CERTIFICATION

I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT FOR SEDIMENT AND EROSION CONTROL, AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A MARYLAND DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT.

5/26/11
DATE
Howard E. Saltzman
OWNER/DEVELOPER SIGNATURE
Howard E. Saltzman, Chief, Stormwater Management Division
PRINTED NAME AND TITLE

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

Howard E. Saltzman 5/26/11
DATE
CHIEF, STORMWATER MANAGEMENT DIVISION
Zvelyn E. Davis 5/26/11
DATE
CHIEF, BUREAU OF ENVIRONMENTAL SERVICES

McCormick Taylor

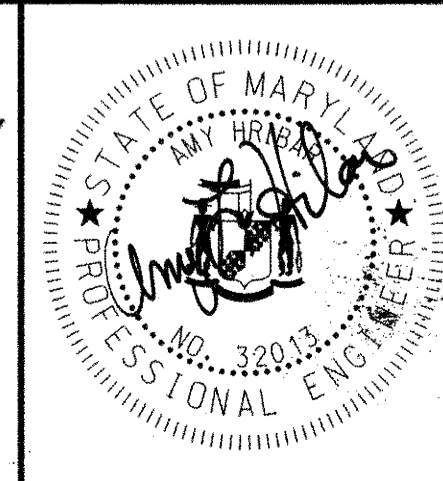
Engineers & Planners Since 1946

509 South Exeter Street
4th Floor
Baltimore, Maryland 21202
(410) 662-7400

Howard County

MARYLAND

Storm Water Management Division
Bureau of Environmental Services
6751 Columbia Gateway Drive, Suite 514
Columbia, Maryland 21046-3143
(410) 313-6444

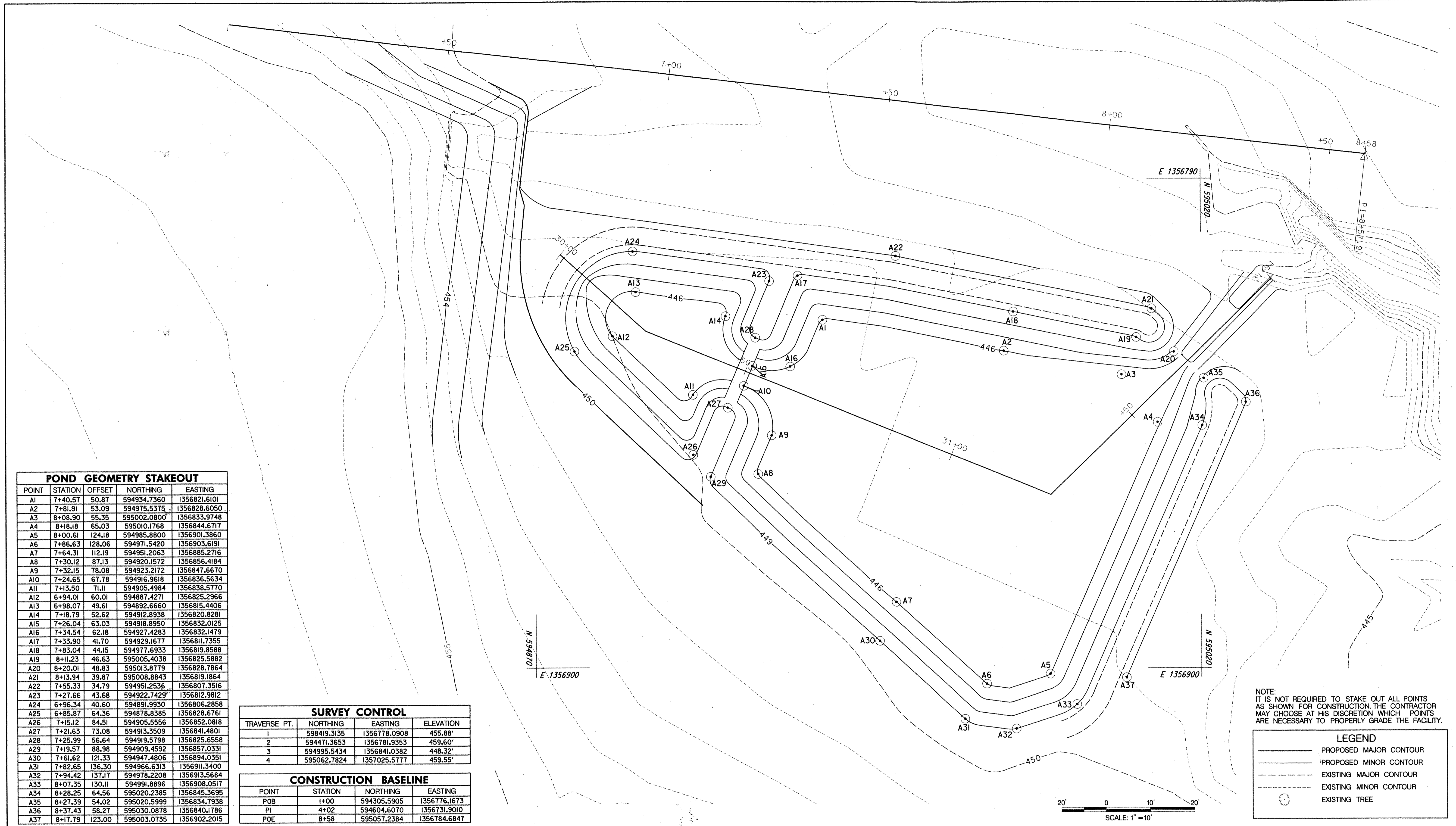


DES: AH				
DRN: MR				
CHK: CB				
DATE: 4/27/11				
BY	NO.	REVISION	DATE	

MOUNT HEBRON HIGH SCHOOL WATER QUANTITY IMPROVEMENT PROJECT CAPITAL PROJECT D 1160 HOWARD COUNTY

TITLE SHEET

SCALE AS SHOWN
SHEET 1 OF 10



POND GEOMETRY STAKEOUT

POINT	STATION	OFFSET	NORTHING	EASTING
A1	7+40.57	50.87	594934.7360	1356821.6101
A2	7+81.91	53.09	594975.5375	1356828.6050
A3	8+08.90	55.35	595002.0800	1356833.9748
A4	8+18.18	65.03	595010.1768	1356844.6717
A5	8+00.61	124.18	594985.8800	1356901.3860
A6	7+86.63	128.06	594971.5420	1356903.6191
A7	7+64.31	112.19	594951.2063	1356885.2716
A8	7+30.12	87.13	594920.1572	1356856.4184
A9	7+32.15	78.08	594923.2172	1356847.6670
A10	7+24.65	67.78	594916.9618	1356836.5634
A11	7+13.50	71.11	594905.4984	1356838.5770
A12	6+94.01	60.01	594887.4271	1356825.2966
A13	6+98.07	49.61	594892.6660	1356815.4406
A14	7+18.79	52.62	594912.8938	1356820.8281
A15	7+26.04	63.03	594918.8950	1356832.0125
A16	7+34.54	62.18	594927.4283	1356832.1479
A17	7+33.90	41.70	594929.1677	1356811.7355
A18	7+83.04	44.15	594977.6933	1356819.8588
A19	8+11.23	46.63	595005.4038	1356825.5882
A20	8+20.01	48.83	595013.8779	1356828.7864
A21	8+13.94	39.87	595008.8843	1356819.1864
A22	7+55.33	34.79	594951.2536	1356807.3516
A23	7+27.66	43.68	594922.7429	1356812.9812
A24	6+96.34	40.60	594891.9930	1356806.2858
A25	6+85.87	64.36	594878.8385	1356828.6761
A26	7+15.12	84.51	594905.5556	1356852.0818
A27	7+21.63	73.08	594913.3509	1356841.4801
A28	7+25.99	56.64	594919.5798	1356825.6558
A29	7+19.57	88.98	594909.4592	1356857.0331
A30	7+61.62	121.33	594947.4806	1356894.0351
A31	7+82.65	136.30	594966.6313	1356911.3400
A32	7+94.42	137.17	594978.2208	1356913.5684
A33	8+07.35	130.11	594991.8896	1356908.0517
A34	8+28.25	64.56	595020.2385	1356845.3695
A35	8+27.39	54.02	595020.5999	1356834.7938
A36	8+37.43	58.27	595030.0878	1356840.1786
A37	8+17.79	123.00	595003.0735	1356902.2015

SURVEY CONTROL

TRAVERSE PT.	NORTHING	EASTING	ELEVATION
1	598419.3135	1356778.0908	455.88'
2	594471.3653	1356781.9353	459.60'
3	594995.5434	1356841.0382	448.32'
4	595062.7824	1357025.5777	459.55'

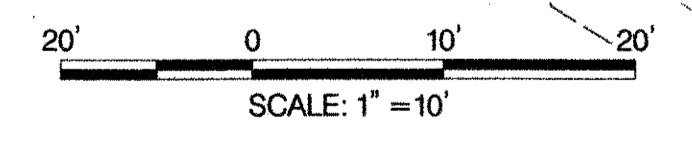
CONSTRUCTION BASELINE

POINT	STATION	NORTHING	EASTING
POB	I+00	594305.5905	1356776.1673
PI	4+02	594604.6070	1356731.9010
PQE	8+58	595057.2384	1356784.6847

NOTE:
IT IS NOT REQUIRED TO STAKE OUT ALL POINTS AS SHOWN FOR CONSTRUCTION. THE CONTRACTOR MAY CHOOSE AT HIS DISCRETION WHICH POINTS ARE NECESSARY TO PROPERLY GRADE THE FACILITY.

LEGEND

- PROPOSED MAJOR CONTOUR
- - - PROPOSED MINOR CONTOUR
- - - EXISTING MAJOR CONTOUR
- - - EXISTING MINOR CONTOUR
- EXISTING TREE



REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS
 THIS DEVELOPMENT IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT
 HOWARD SCD
 DATE 6/16/11

McCormick Taylor
 Engineers & Planners Since 1946
 509 South Exeter Street
 4th Floor
 Baltimore, Maryland 21202
 (410) 662-7400

Howard County
 MARYLAND
 Storm Water Management Division
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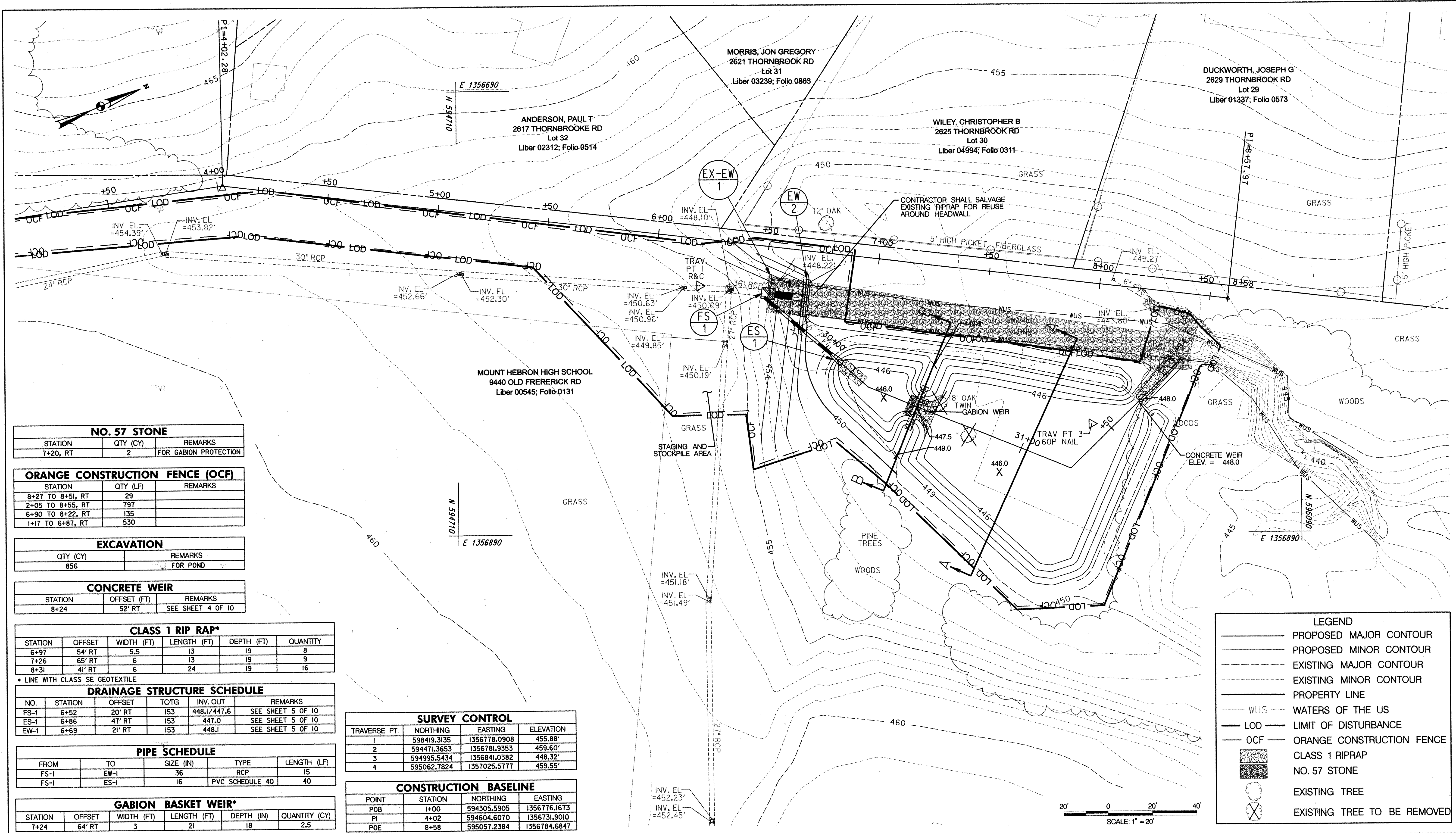


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DRN: MR			
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DATE: 4/27/11	BY	NO.	REVISION
			DATE

**MOUNT HEBRON HIGH SCHOOL
 WATER QUANTITY IMPROVEMENT PROJECT
 CAPITAL PROJECT D 1160
 HOWARD COUNTY**

GEOMETRY SHEET

SCALE 1" = 10'
 SHEET 2 OF 10



NO. 57 STONE		
STATION	QTY (CY)	REMARKS
7+20, RT	2	FOR GABION PROTECTION

ORANGE CONSTRUCTION FENCE (OCF)		
STATION	QTY (LF)	REMARKS
8+27 TO 8+51, RT	29	
2+05 TO 8+55, RT	797	
6+90 TO 8+22, RT	135	
1+17 TO 6+87, RT	530	

EXCAVATION	
QTY (CY)	REMARKS
856	FOR POND

CONCRETE WEIR		
STATION	OFFSET (FT)	REMARKS
8+24	52' RT	SEE SHEET 4 OF 10

CLASS 1 RIP RAP*					
STATION	OFFSET	WIDTH (FT)	LENGTH (FT)	DEPTH (FT)	QUANTITY
6+97	54' RT	5.5	13	19	8
7+26	65' RT	6	13	19	9
8+31	41' RT	6	24	19	16

DRAINAGE STRUCTURE SCHEDULE					
NO.	STATION	OFFSET	TOTG	INV. OUT	REMARKS
FS-1	6+52	20' RT	I53	448.1/447.6	SEE SHEET 5 OF 10
ES-1	6+86	47' RT	I53	447.0	SEE SHEET 5 OF 10
EW-1	6+69	21' RT	I53	448.1	SEE SHEET 5 OF 10

PIPE SCHEDULE				
FROM	TO	SIZE (IN)	TYPE	LENGTH (LF)
FS-1	EW-1	36	RCP	15
FS-1	ES-1	16	PVC SCHEDULE 40	40

GABION BASKET WEIR*					
STATION	OFFSET	WIDTH (FT)	LENGTH (FT)	DEPTH (IN)	QUANTITY (CY)
7+24	64' RT	3	21	18	2.5

SURVEY CONTROL			
TRAVERSE PT.	NORTHING	EASTING	ELEVATION
1	598419.3135	1356778.0908	455.88'
2	594471.3653	1356781.9353	459.60'
3	594995.5434	1356841.0382	448.32'
4	595062.7824	1357025.5777	459.55'

CONSTRUCTION BASELINE			
POINT	STATION	NORTHING	EASTING
POB	1+00	594305.5905	1356776.1673
PI	4+02	594604.6070	1356731.9010
POE	8+58	595057.2384	1356784.6847

LEGEND

- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- - - EXISTING MAJOR CONTOUR
- - - EXISTING MINOR CONTOUR
- PROPERTY LINE
- WUS — WATERS OF THE US
- LOD — LIMIT OF DISTURBANCE
- OCF — ORANGE CONSTRUCTION FENCE
- █ CLASS 1 RIPRAP
- █ NO. 57 STONE
- ⊗ EXISTING TREE
- ⊗ EXISTING TREE TO BE REMOVED

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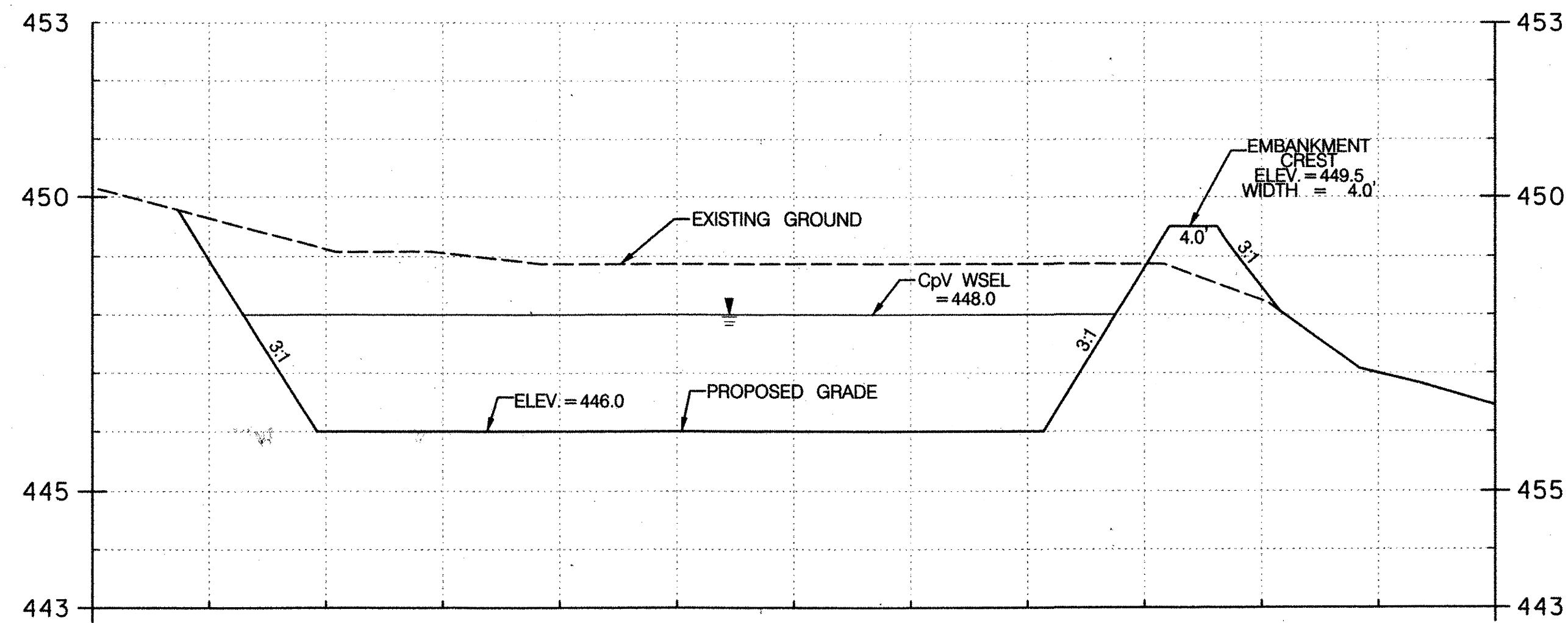
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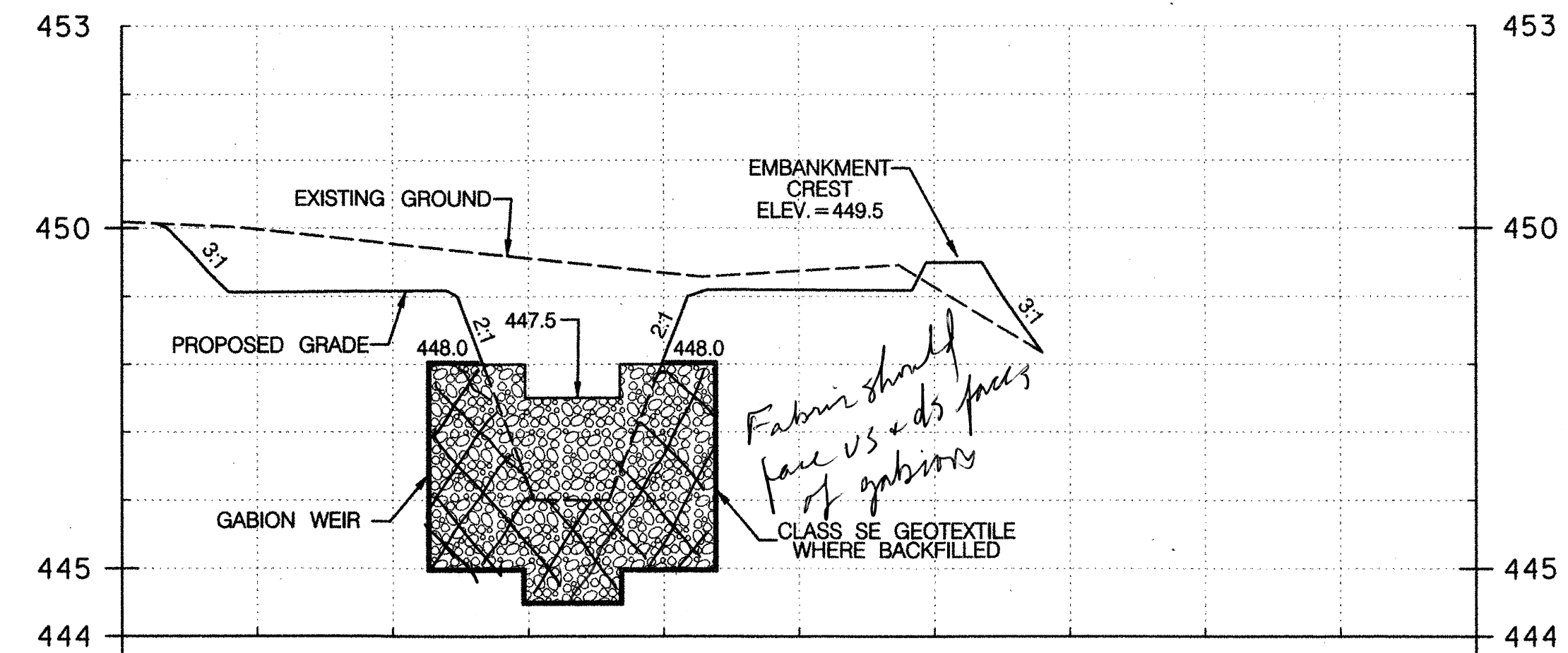
MOUNT HEBRON HIGH SCHOOL
WATER QUANTITY IMPROVEMENT PROJECT
CAPITAL PROJECT D 1160
HOWARD COUNTY

SITE PLAN

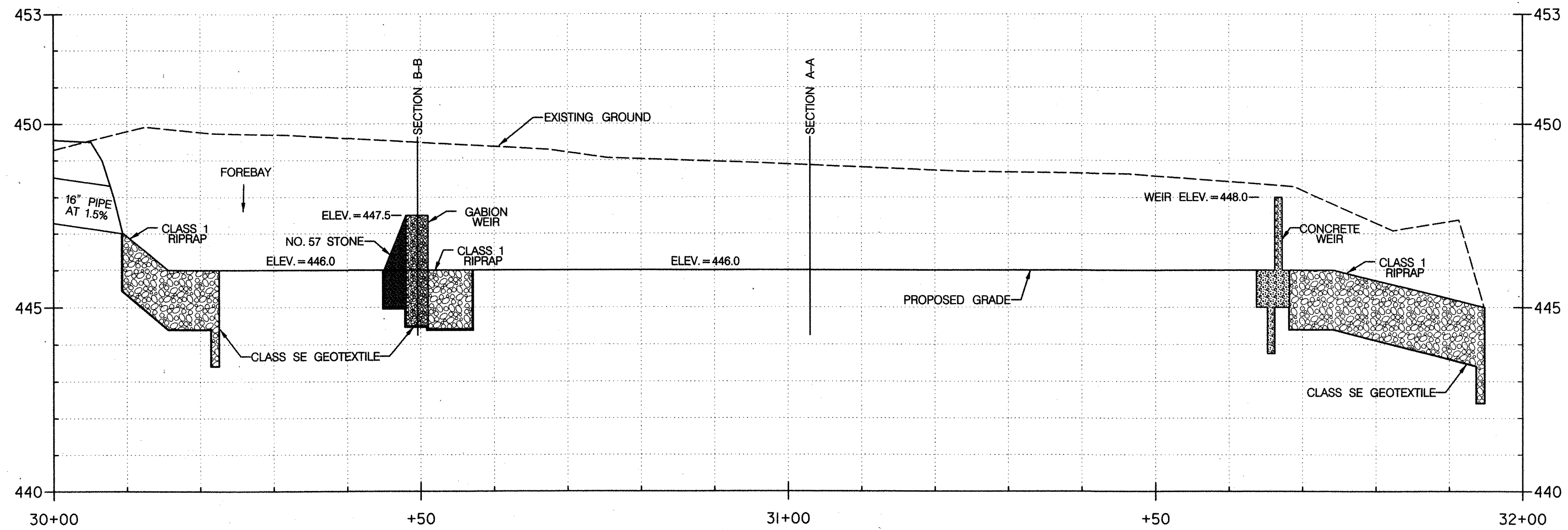
SCALE: 1" = 20'
 SHEET 3 OF 10



CROSS SECTION A-A
 VERTICAL SCALE: 1" = 2'
 HORIZONTAL SCALE: 1" = 10'



CROSS SECTION B-B
 VERTICAL SCALE: 1" = 2'
 HORIZONTAL SCALE: 1" = 10'



BMP PROFILE
 VERTICAL SCALE: 1" = 2'
 HORIZONTAL SCALE: 1" = 10'

REVIEWED FOR HOWARD SCD
 AND MEETS TECHNICAL REQUIREMENTS

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 BY THE HOWARD SOIL CONSERVATION DISTRICT

John K. Robertson

HOWARD SCD

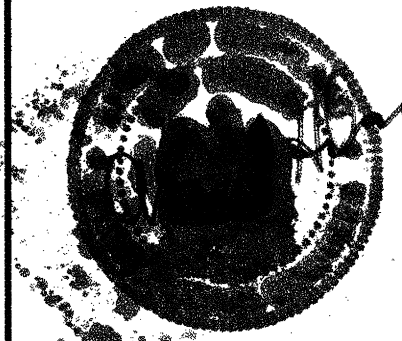
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 WATER QUANTITY IMPROVEMENT PROJECT
 CAPITAL PROJECT D 1160
 HOWARD COUNTY**

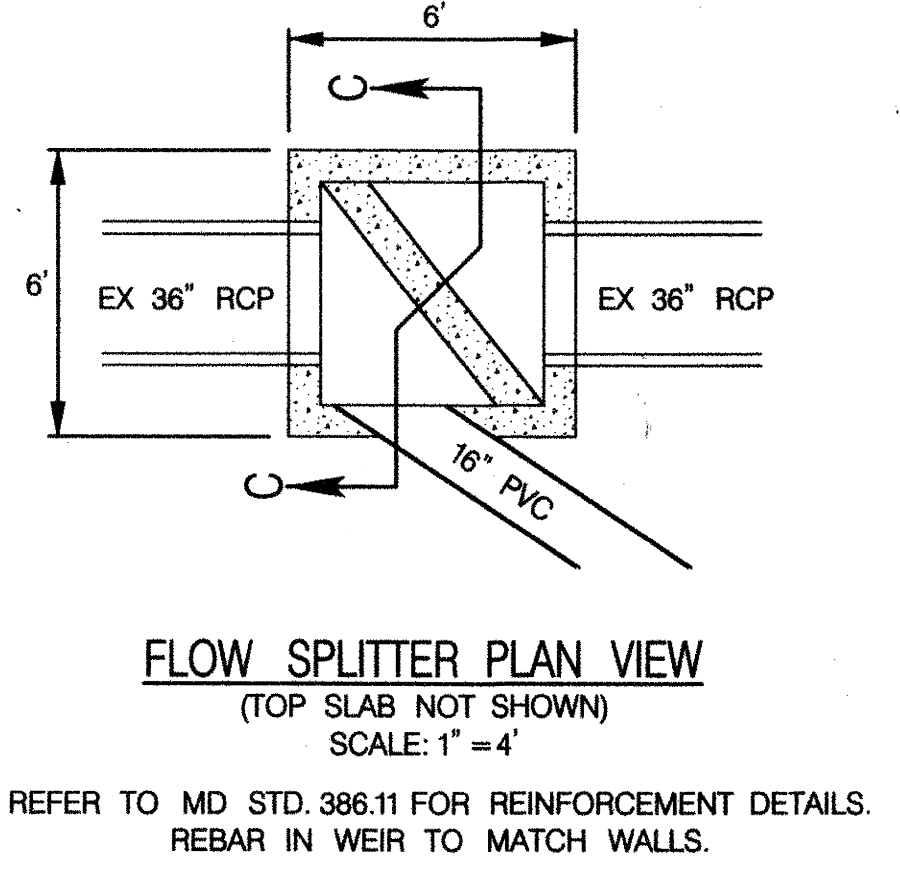
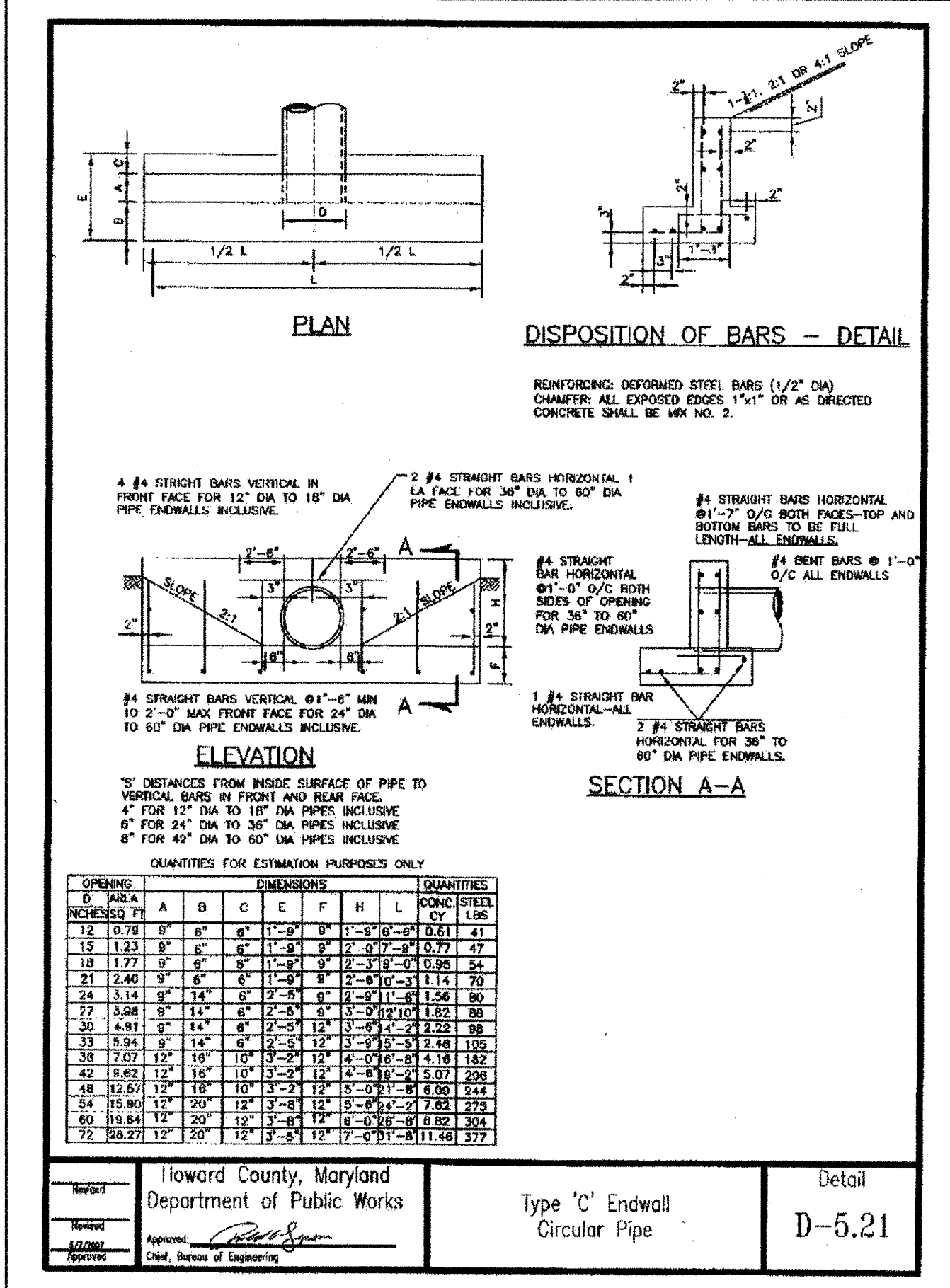
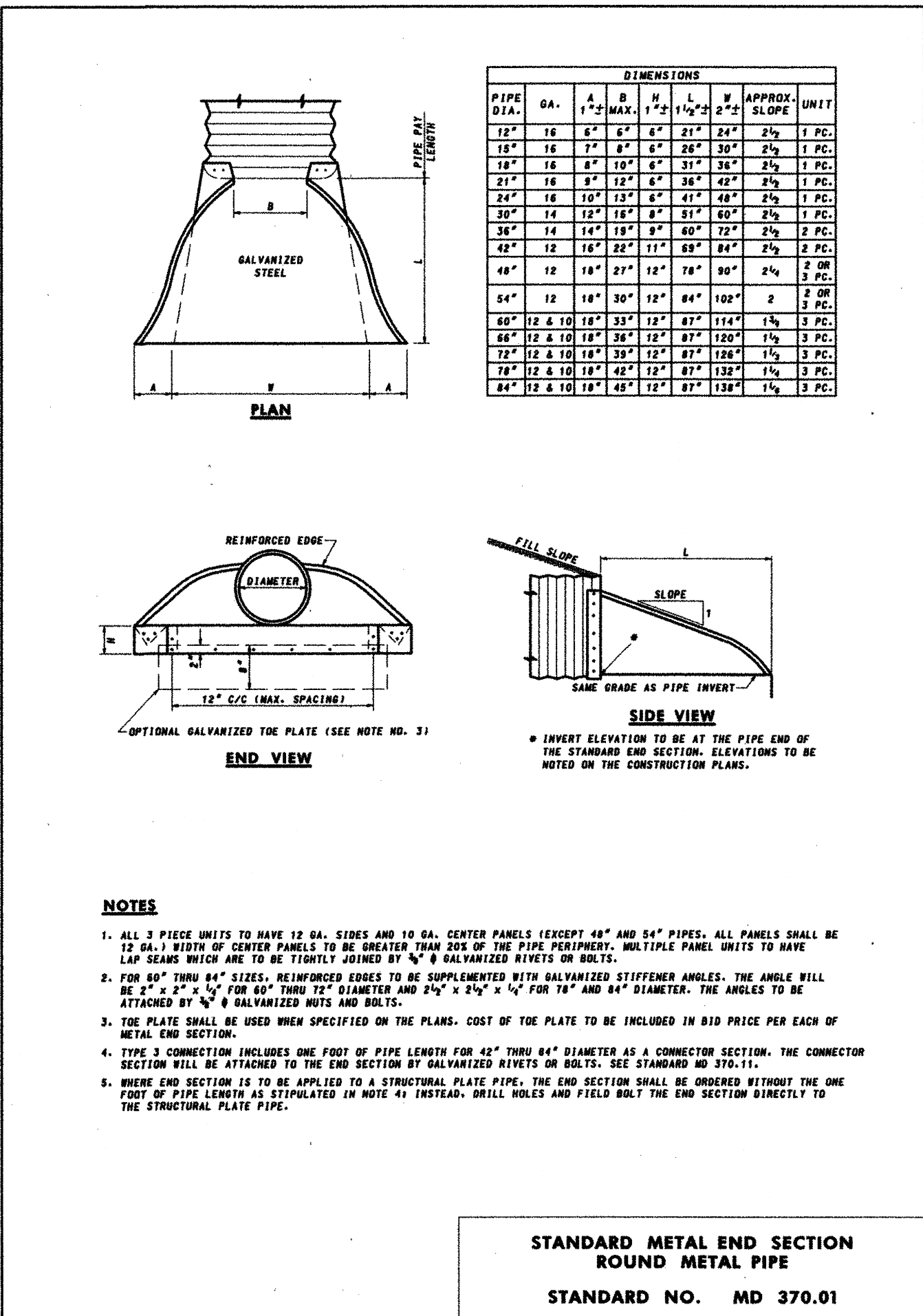
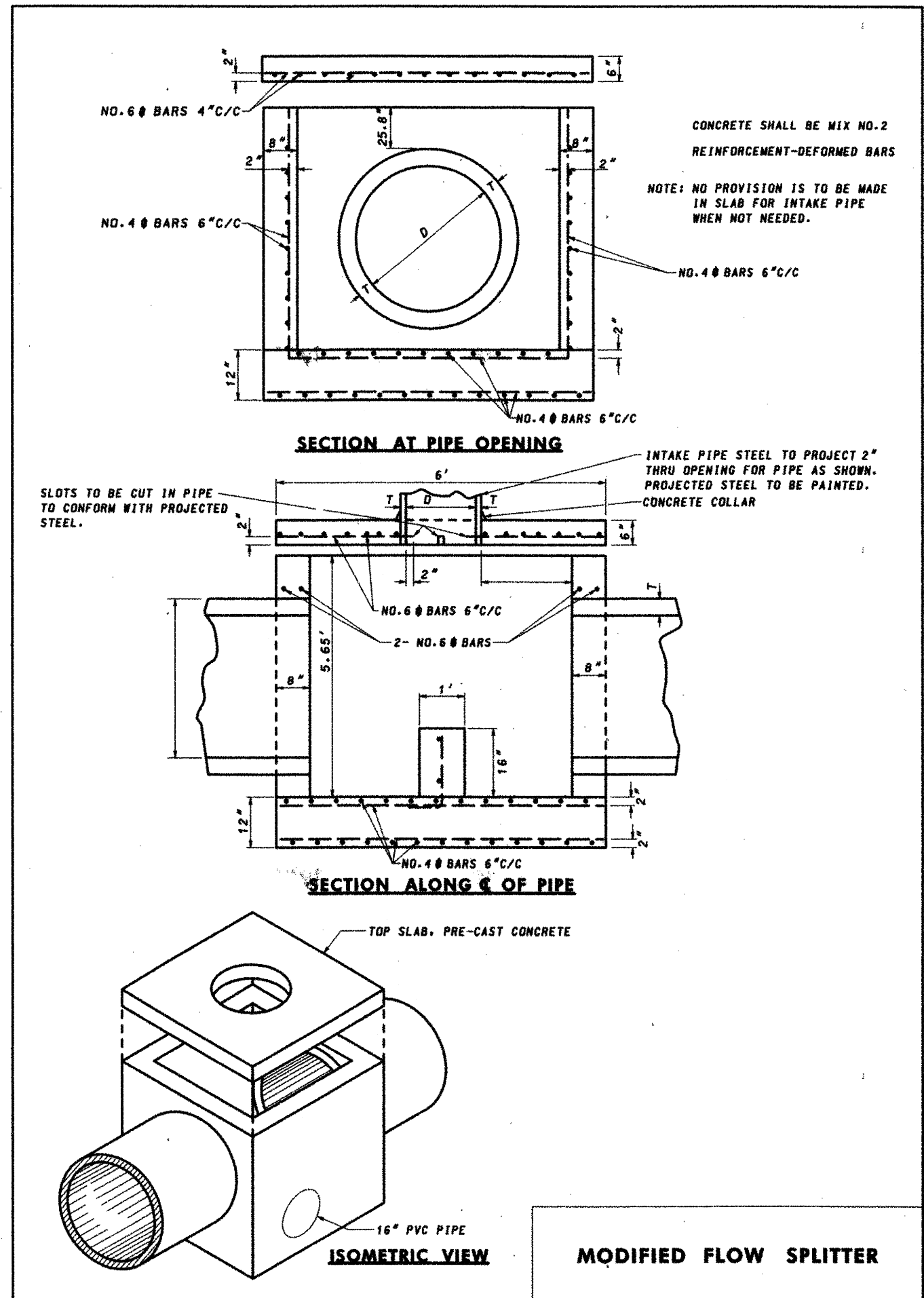
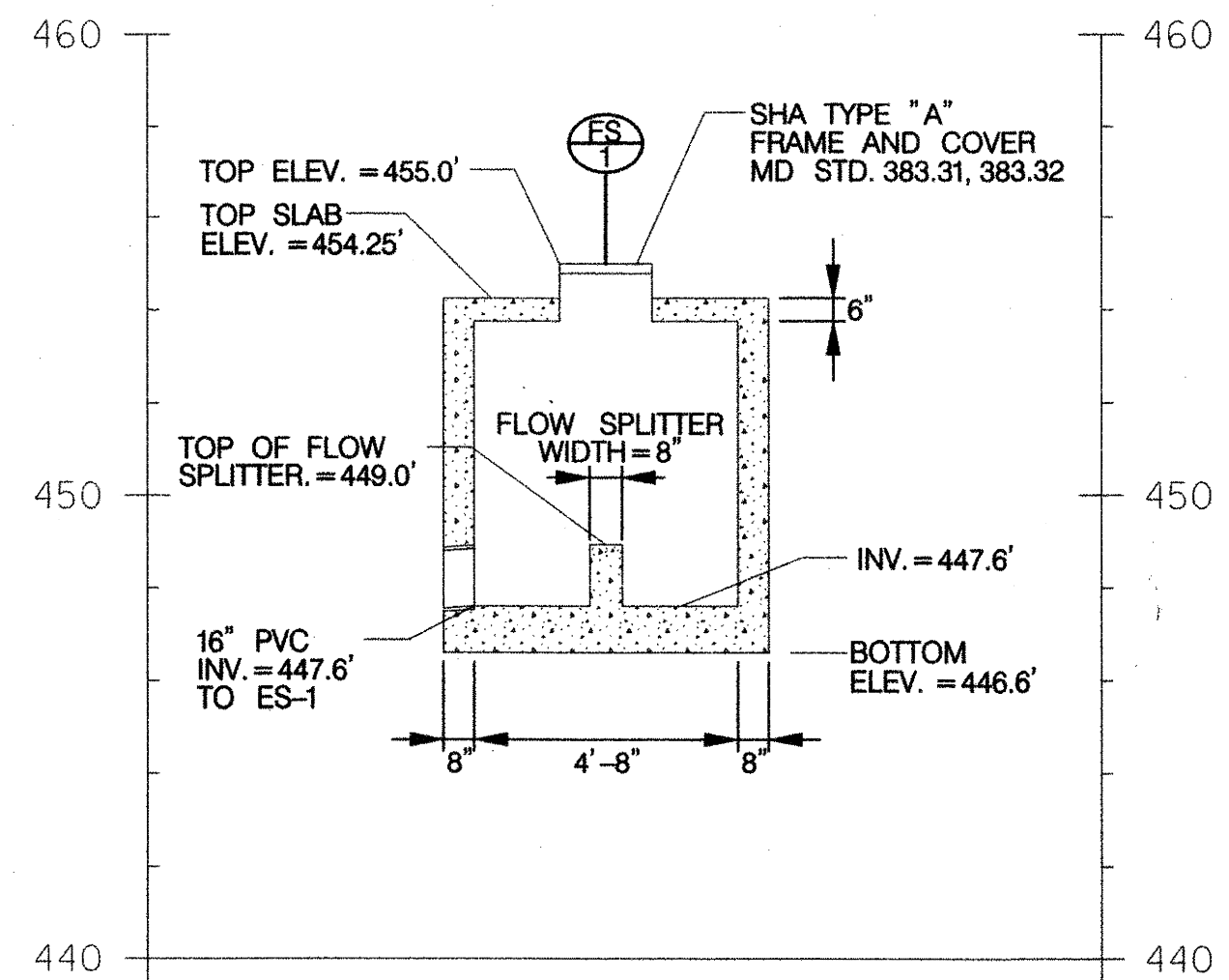
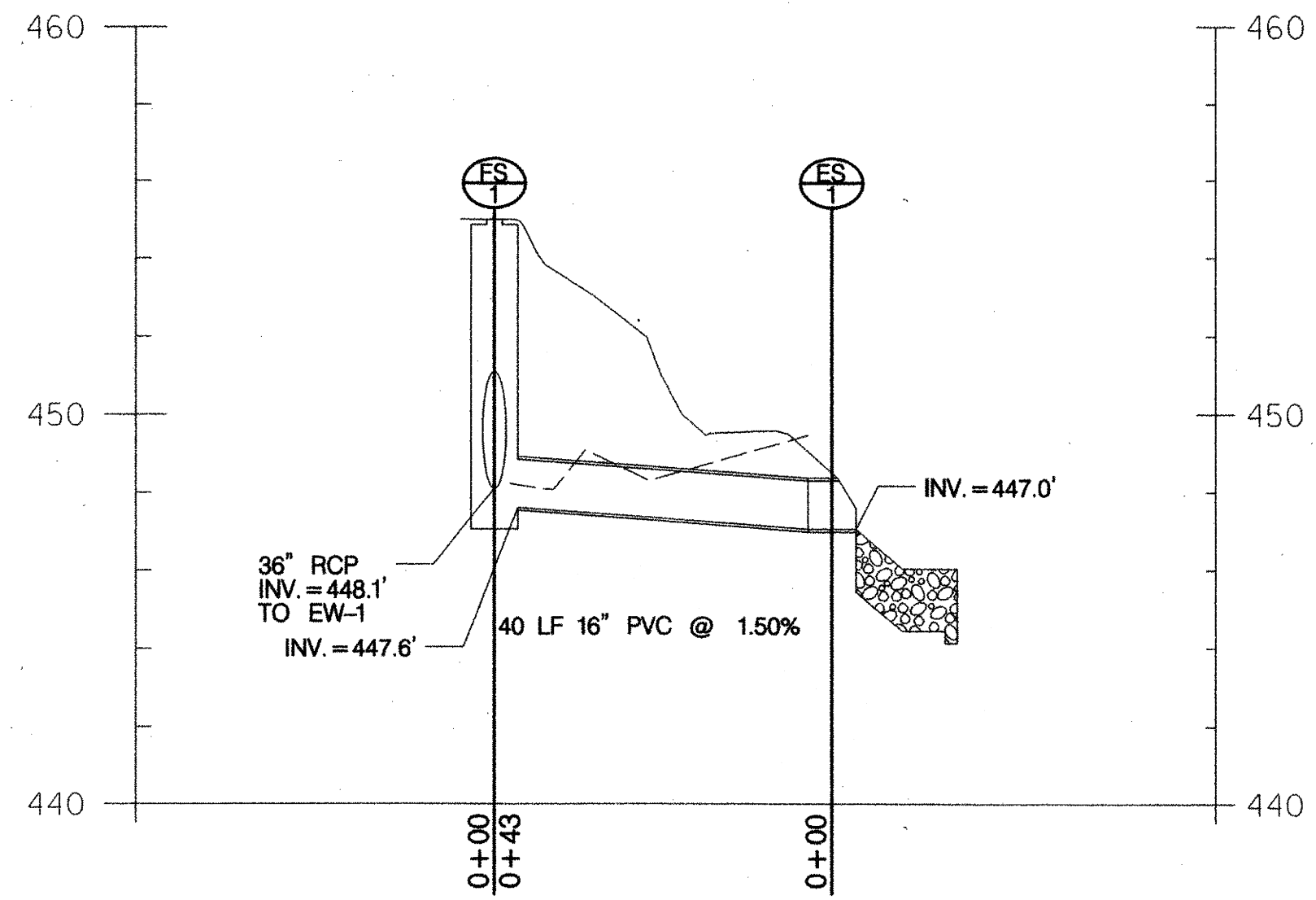
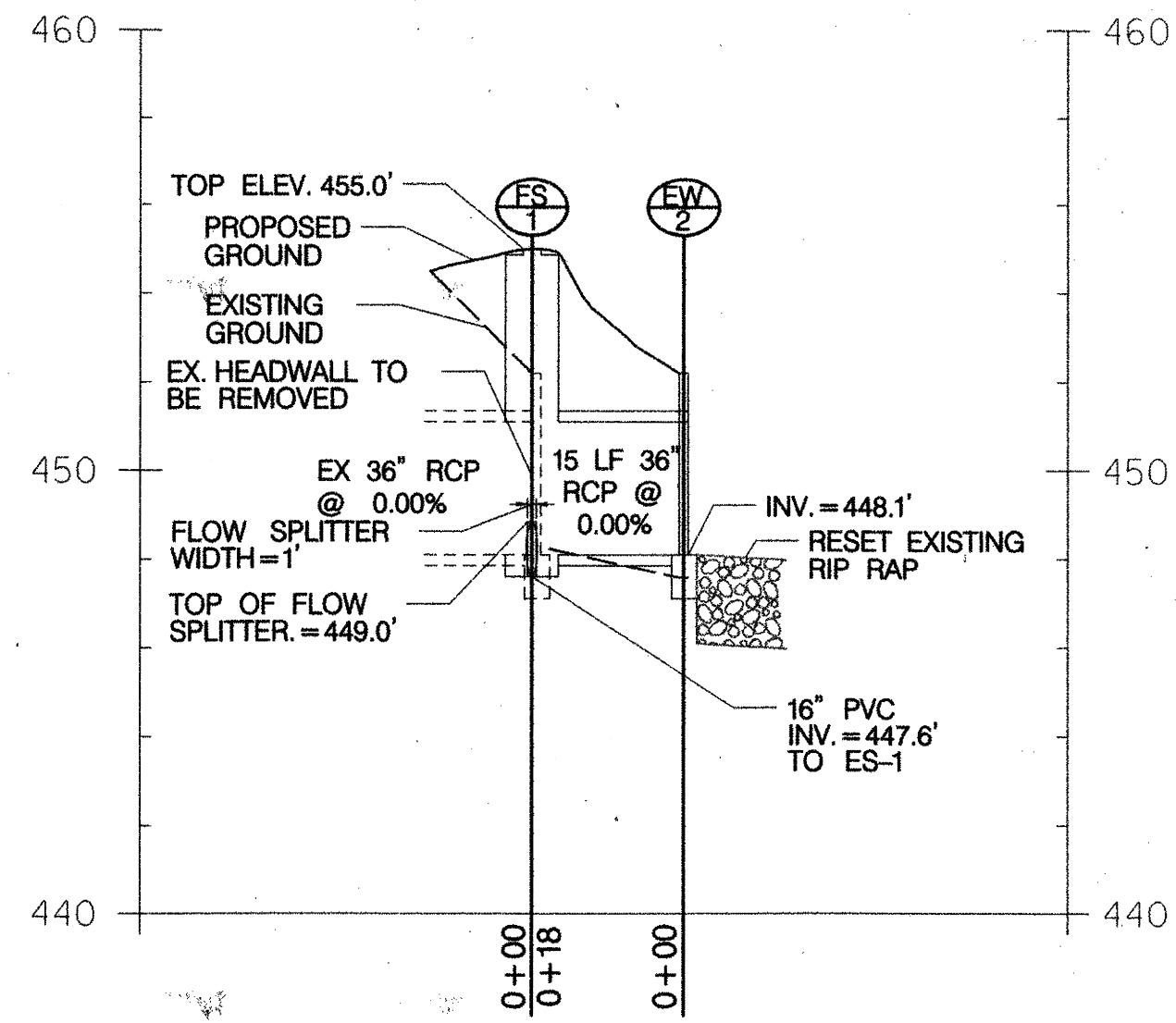
TYPICAL SECTIONS AND PROFILES

SCALE

AS
 SHOWN

SHEET

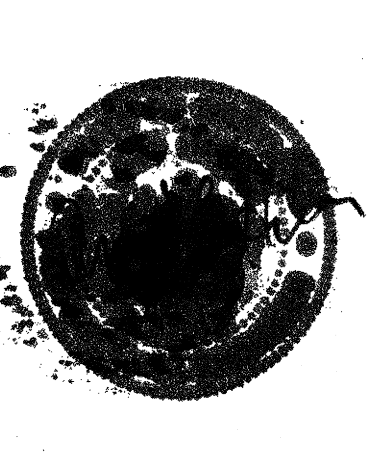
4 OF 10



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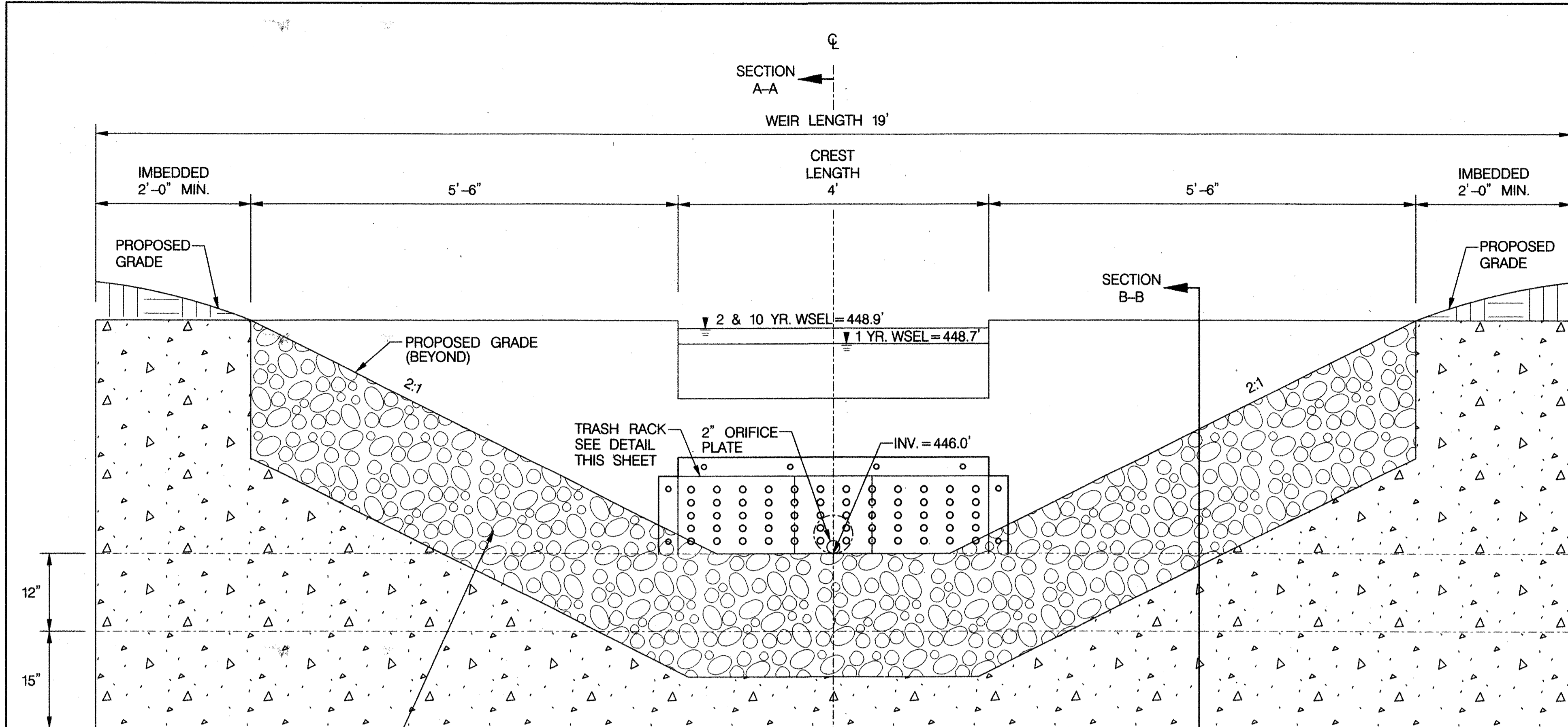
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MOUNT HEBRON HIGH SCHOOL
 WATER QUANTITY IMPROVEMENT PROJECT
 CAPITAL PROJECT D 1160
 HOWARD COUNTY
 TYPICAL DETAILS AND PIPE PROFILES
 SCALE: SHEET 5 OF 10



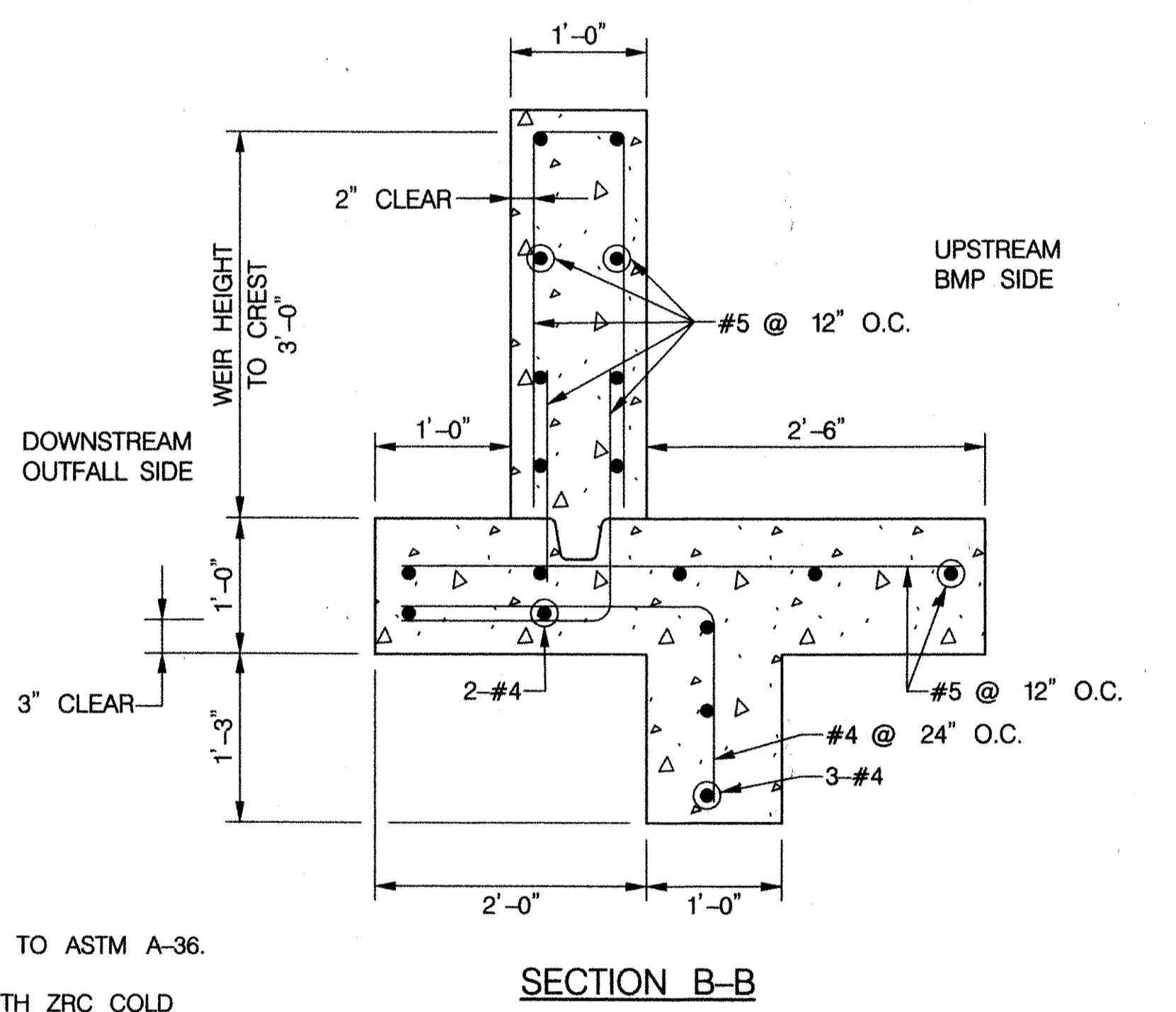
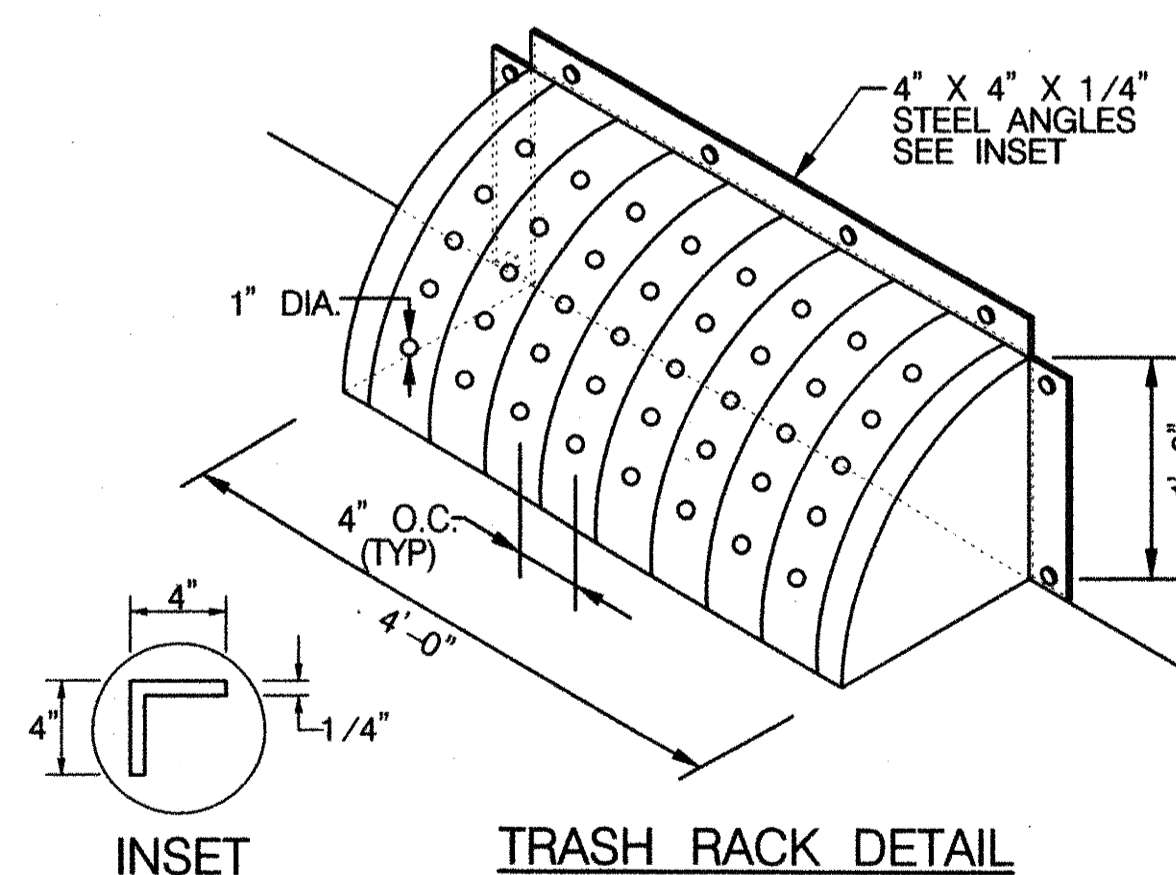
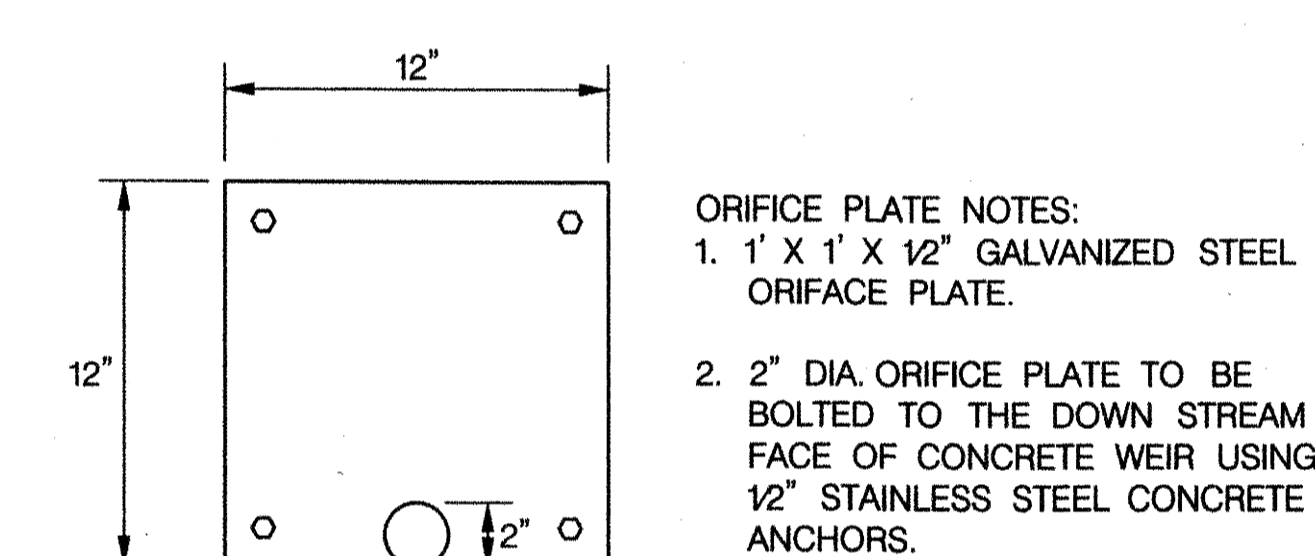
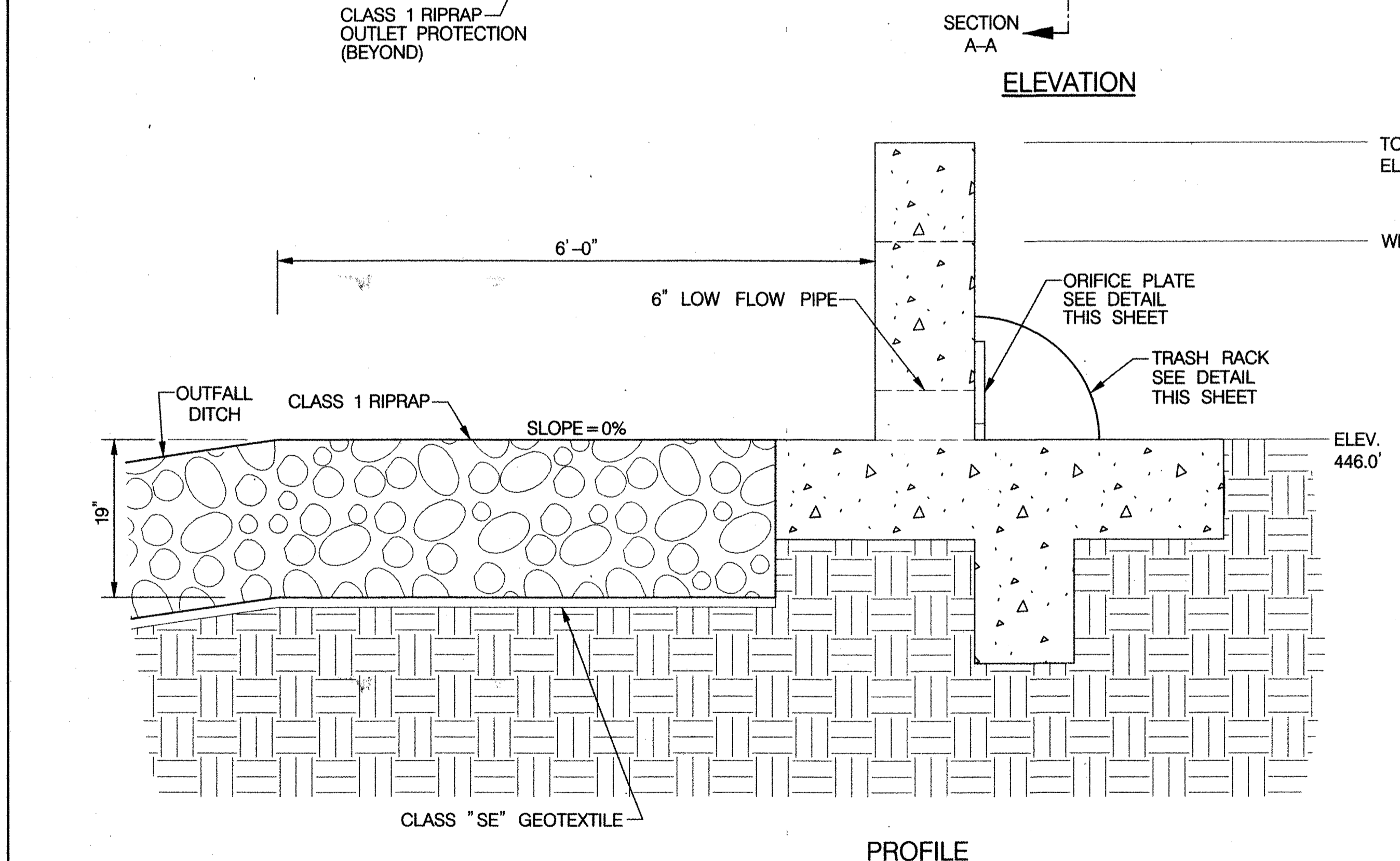
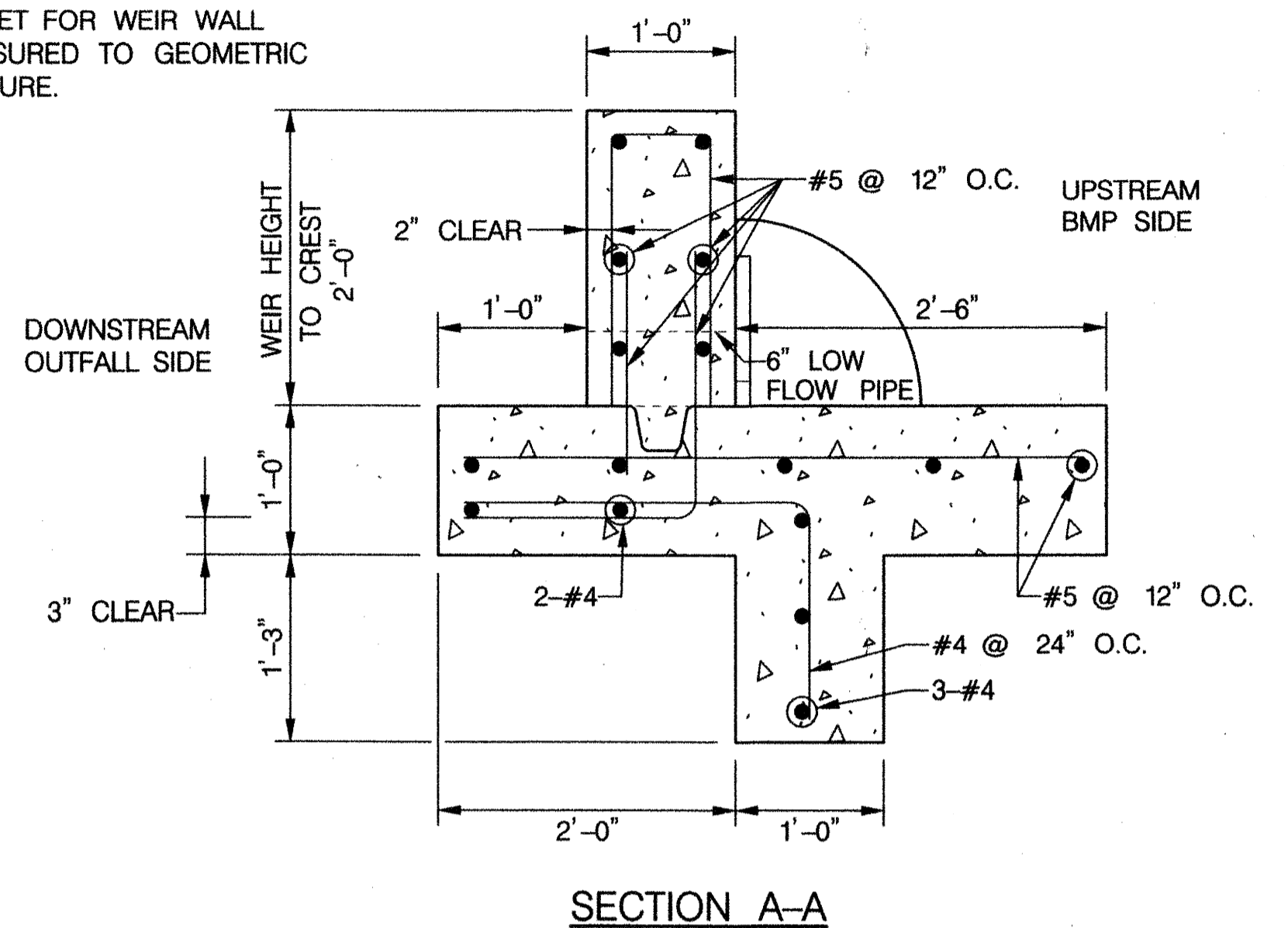
WEIR WALL NOTES:

1. USE MIX NO. 3 CONCRETE WEIR WALL.
2. REINFORCING TO CONFORM TO ASTM A615 GRADE 60.
3. STATION AND OFFSET FOR WEIR WALL STRUCTURE IS MEASURED TO GEOMETRIC CENTER OF STRUCTURE.

TOP OF EMBANKMENT ELEV. 449.5'

TOP OF STRUCTURE ELEV. 449.0'

WEIR ELEV. 448.0'



REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS

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

HOWARD SCD

John R. Robertson

Collin

DATE

McCormick & Taylor
Engineers & Planners Since 1946

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(410) 662-7400

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MARYLAND

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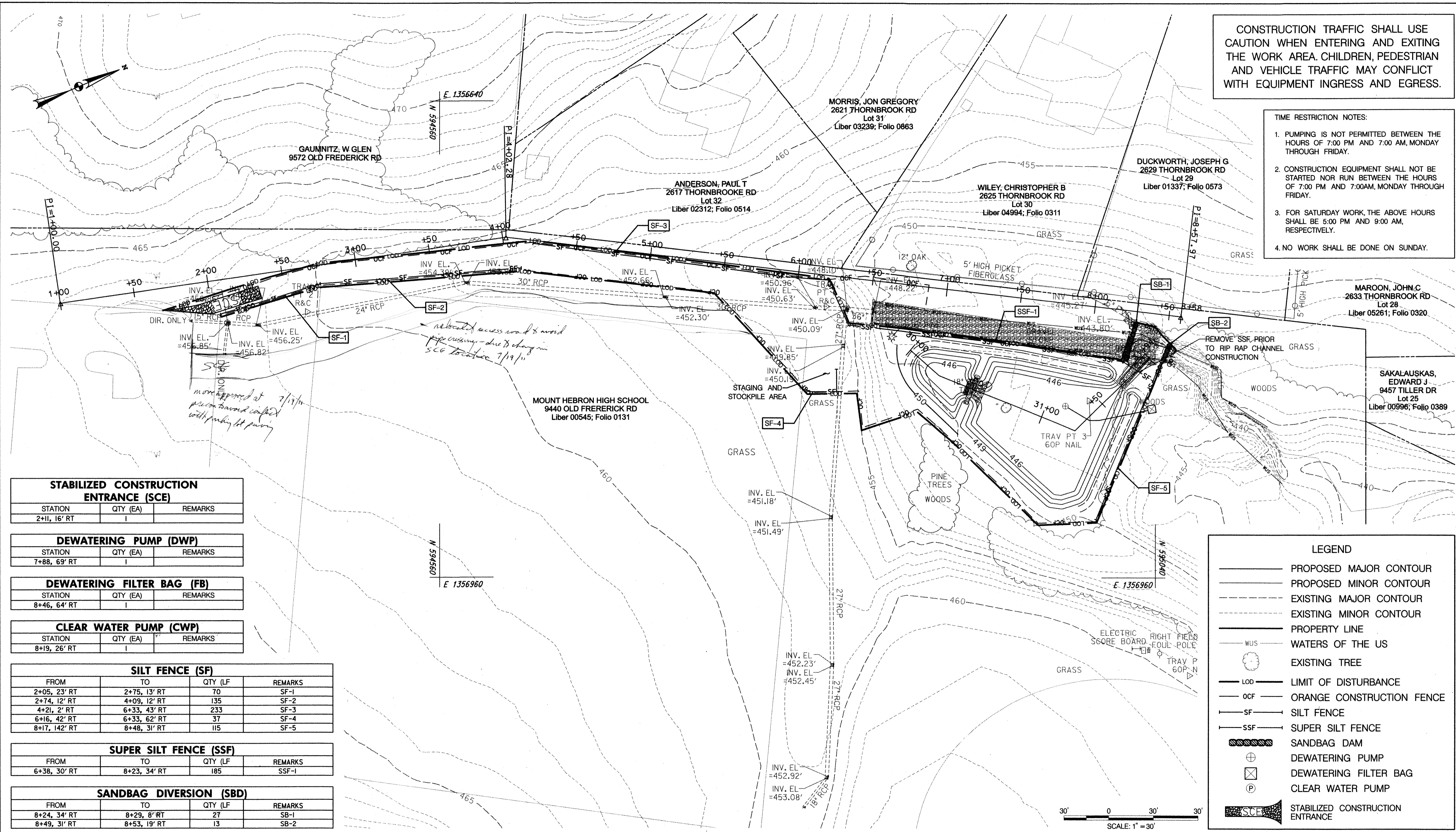
**MOUNT HEBRON HIGH SCHOOL
WATER QUANTITY IMPROVEMENT PROJECT
CAPITAL PROJECT D 1160
HOWARD COUNTY**

WEIR DETAILS

SCALE
NOT TO SCALE
SHEET
6 OF 10

CONSTRUCTION TRAFFIC SHALL USE CAUTION WHEN ENTERING AND EXITING THE WORK AREA. CHILDREN, PEDESTRIAN AND VEHICLE TRAFFIC MAY CONFLICT WITH EQUIPMENT INGRESS AND EGRESS.

- TIME RESTRICTION NOTES:
1. PUMPING IS NOT PERMITTED BETWEEN THE HOURS OF 7:00 PM AND 7:00 AM, MONDAY THROUGH FRIDAY.
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 3. FOR SATURDAY WORK, THE ABOVE HOURS SHALL BE 5:00 PM AND 9:00 AM, RESPECTIVELY.
 4. NO WORK SHALL BE DONE ON SUNDAY.



STABILIZED CONSTRUCTION ENTRANCE (SCE)

STATION	QTY (EA)	REMARKS
2+11, 16' RT	1	

DEWATERING PUMP (DWP)

STATION	QTY (EA)	REMARKS
7+88, 69' RT	1	

DEWATERING FILTER BAG (FB)

STATION	QTY (EA)	REMARKS
8+46, 64' RT	1	

CLEAR WATER PUMP (CWP)

STATION	QTY (EA)	REMARKS
8+19, 26' RT	1	

SILT FENCE (SF)

FROM	TO	QTY (LF)	REMARKS
2+05, 23' RT	2+75, 13' RT	70	SF-1
2+74, 12' RT	4+09, 12' RT	135	SF-2
4+21, 2' RT	6+33, 43' RT	233	SF-3
6+16, 42' RT	6+33, 62' RT	37	SF-4
8+17, 142' RT	8+48, 31' RT	115	SF-5

SUPER SILT FENCE (SSF)

FROM	TO	QTY (LF)	REMARKS
6+38, 30' RT	8+23, 34' RT	185	SSF-1

SANDBAG DIVERSION (SBD)

FROM	TO	QTY (LF)	REMARKS
8+24, 34' RT	8+29, 8' RT	27	SB-1
8+49, 31' RT	8+53, 19' RT	13	SB-2

LEGEND

- PROPOSED MAJOR CONTOUR
- - - PROPOSED MINOR CONTOUR
- - - EXISTING MAJOR CONTOUR
- - - EXISTING MINOR CONTOUR
- PROPERTY LINE
- WUS — WATERS OF THE US
- ⊙ EXISTING TREE
- LOD — LIMIT OF DISTURBANCE
- OCF — ORANGE CONSTRUCTION FENCE
- SF — SILT FENCE
- SSF — SUPER SILT FENCE
- ▨ SANDBAG DAM
- ⊕ DEWATERING PUMP
- ⊗ DEWATERING FILTER BAG
- ⊙ CLEAR WATER PUMP
- ▨ SCE — STABILIZED CONSTRUCTION ENTRANCE

REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS

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

John R. Roberts
HOWARD SCD

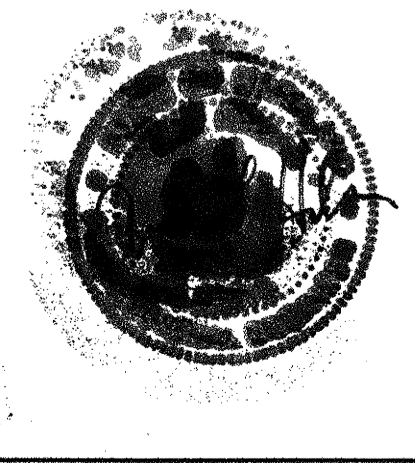
6/16/14
DATE

McCormick Taylor
Engineers & Planners
Since 1946

509 South Exeter Street
4th Floor
Baltimore, Maryland 21202
(410) 662-7400

Howard County
MARYLAND

Storm Water Management Division
Bureau of Environmental Services
6751 Columbia Gateway Drive, Suite 514
Columbia, Maryland 21046-3143
(410) 313-6444



DES: AH				
DRN: MR				
CHK: CB				
DATE: 4/27/11	BY	NO.	REVISION	DATE

**MOUNT HEBRON HIGH SCHOOL
WATER QUANTITY IMPROVEMENT PROJECT
CAPITAL PROJECT D 1160
HOWARD COUNTY**

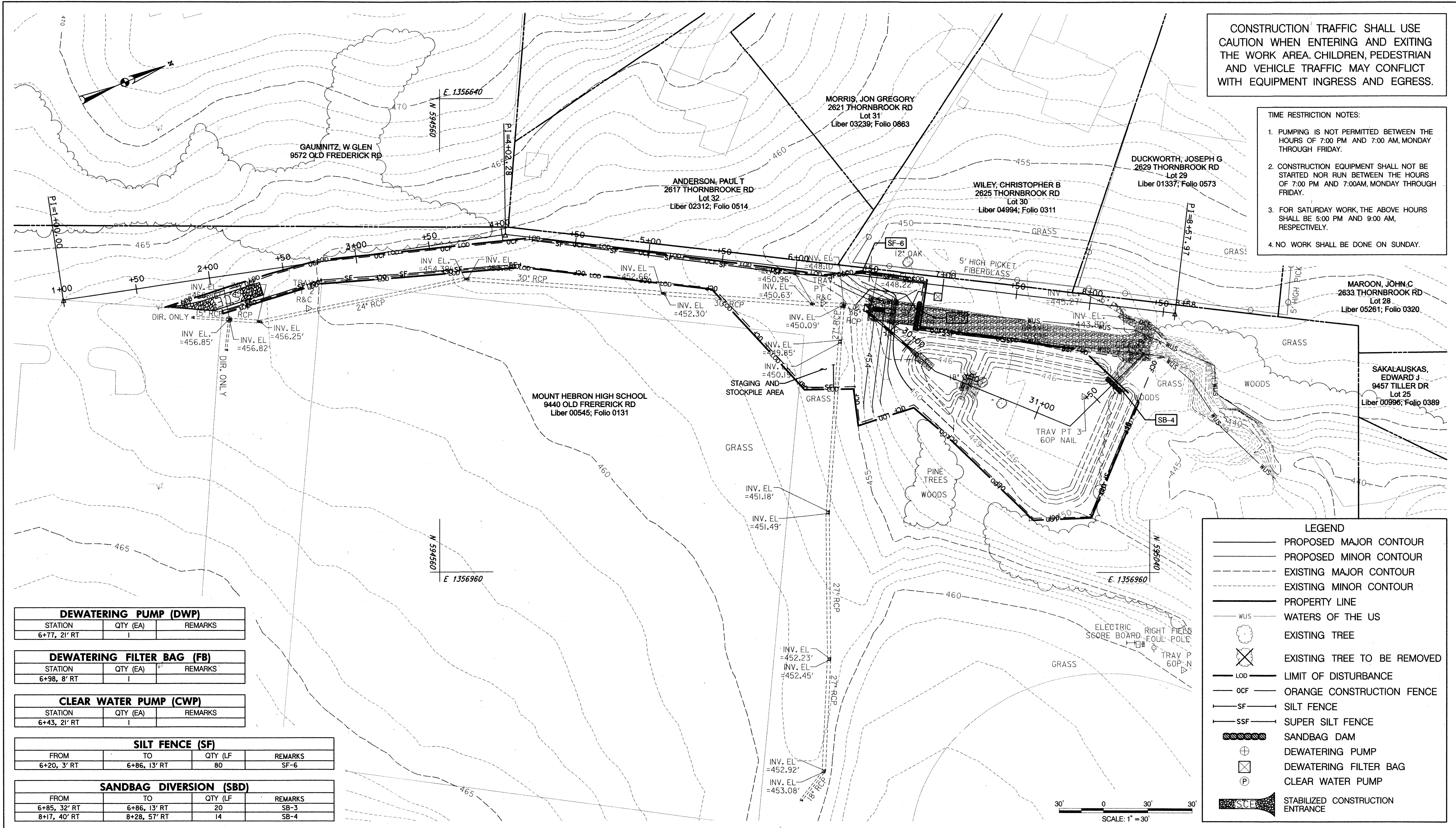
**EROSION AND SEDIMENT CONTROL PLAN
PHASE 1**

SCALE
1" = 30'

SHEET
7 OF 10

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DEWATERING PUMP (DWP)		
STATION	QTY (EA)	REMARKS
6+77, 21' RT	1	

DEWATERING FILTER BAG (FB)		
STATION	QTY (EA)	REMARKS
6+98, 8' RT	1	

CLEAR WATER PUMP (CWP)		
STATION	QTY (EA)	REMARKS
6+43, 21' RT	1	

SILT FENCE (SF)			
FROM	TO	QTY (LF)	REMARKS
6+20, 3' RT	6+86, 13' RT	80	SF-6

SANDBAG DIVERSION (SBD)			
FROM	TO	QTY (LF)	REMARKS
6+85, 32' RT	6+86, 13' RT	20	SB-3
8+17, 40' RT	8+28, 57' RT	14	SB-4

LEGEND

- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- PROPERTY LINE
- WATERS OF THE US
- EXISTING TREE
- EXISTING TREE TO BE REMOVED
- LIMIT OF DISTURBANCE
- ORANGE CONSTRUCTION FENCE
- SILT FENCE
- SUPER SILT FENCE
- SANDBAG DAM
- DEWATERING PUMP
- DEWATERING FILTER BAG
- CLEAR WATER PUMP
- STABILIZED CONSTRUCTION ENTRANCE

REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS

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John P. Roberts
HOWARD SCD

6/16/11
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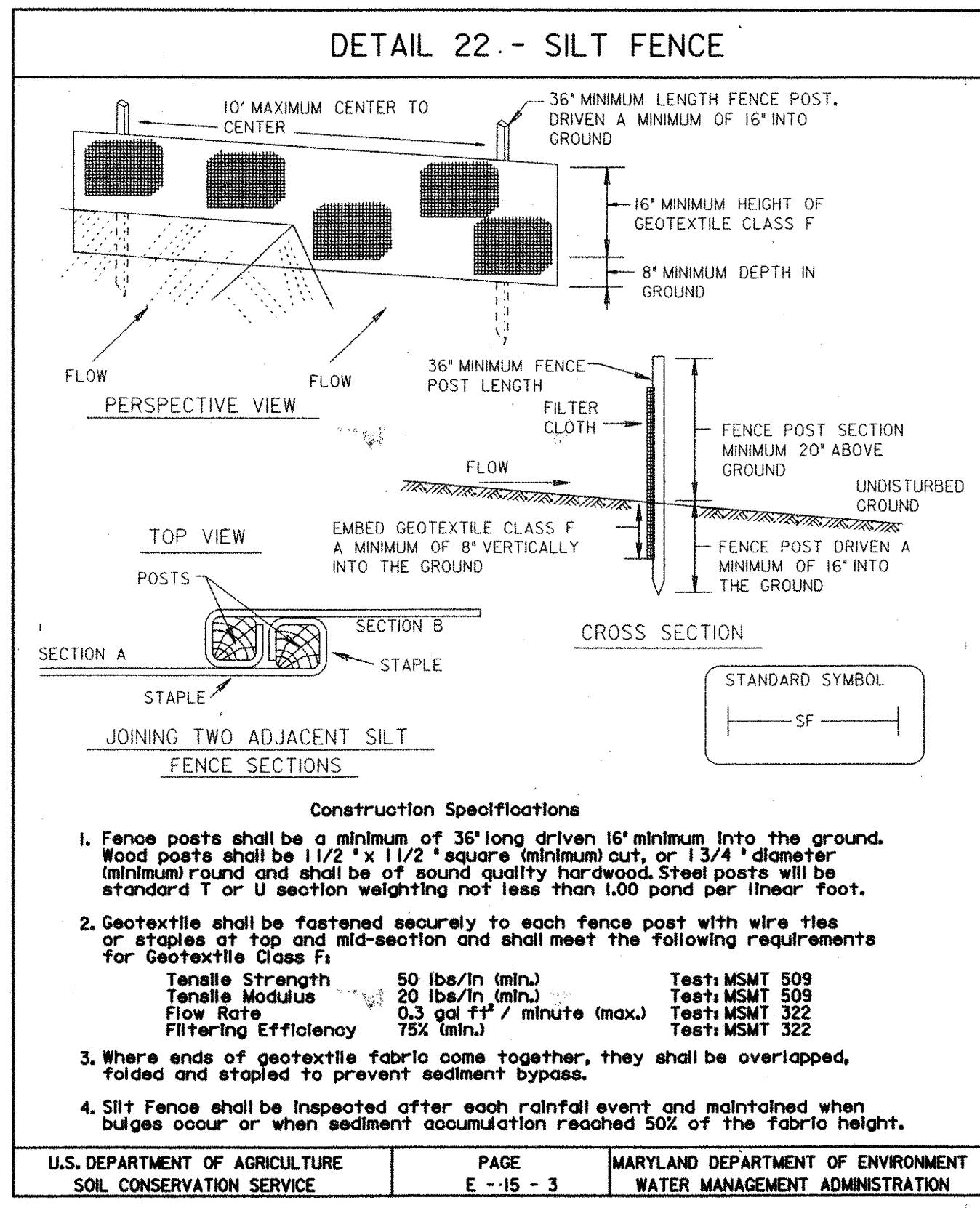
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MOUNT HEBRON HIGH SCHOOL
WATER QUANTITY IMPROVEMENT PROJECT
CAPITAL PROJECT D 1160
HOWARD COUNTY

**EROSION AND SEDIMENT CONTROL PLAN
PHASE 2**

SCALE
1" = 30'

SHEET
8 OF 10



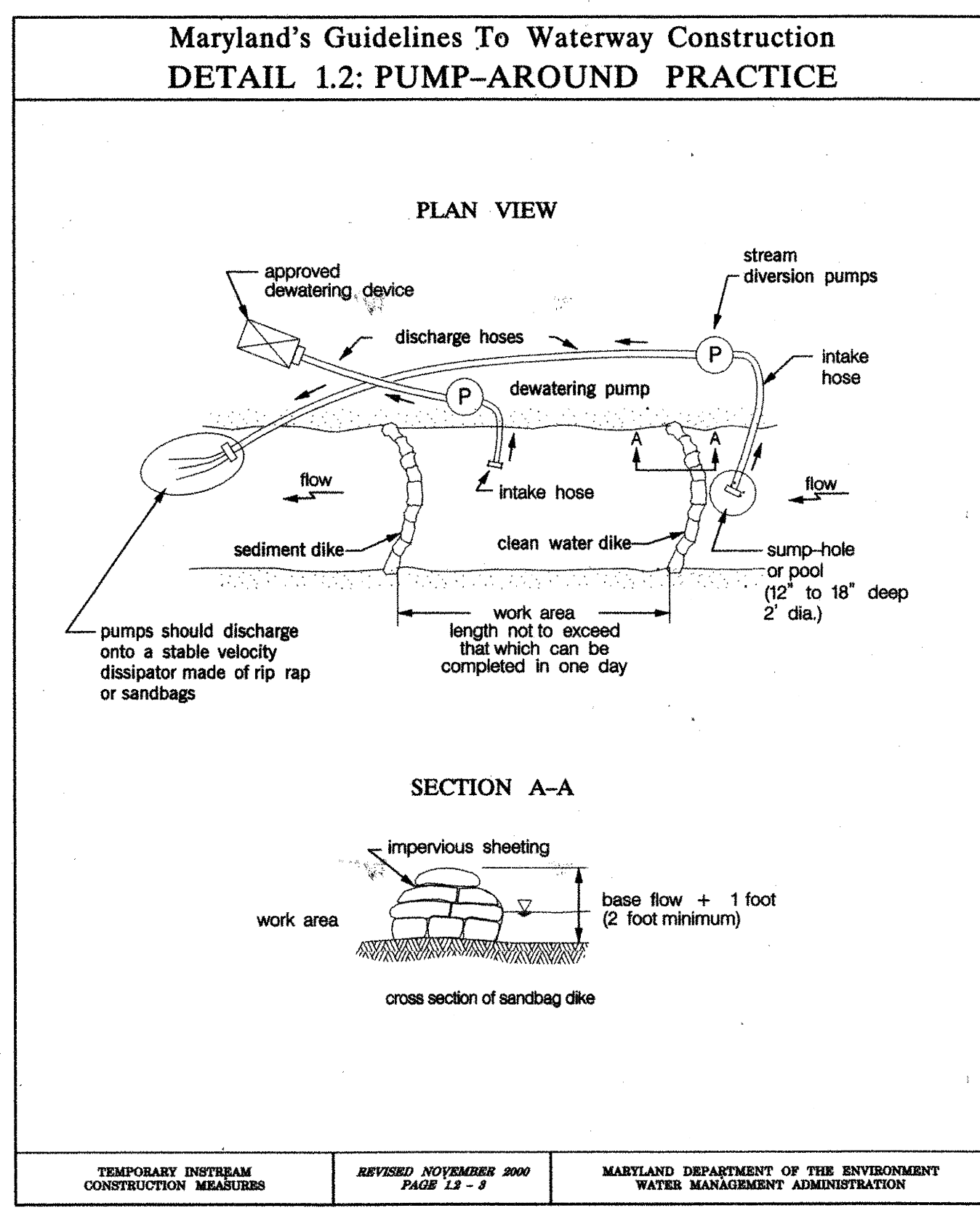
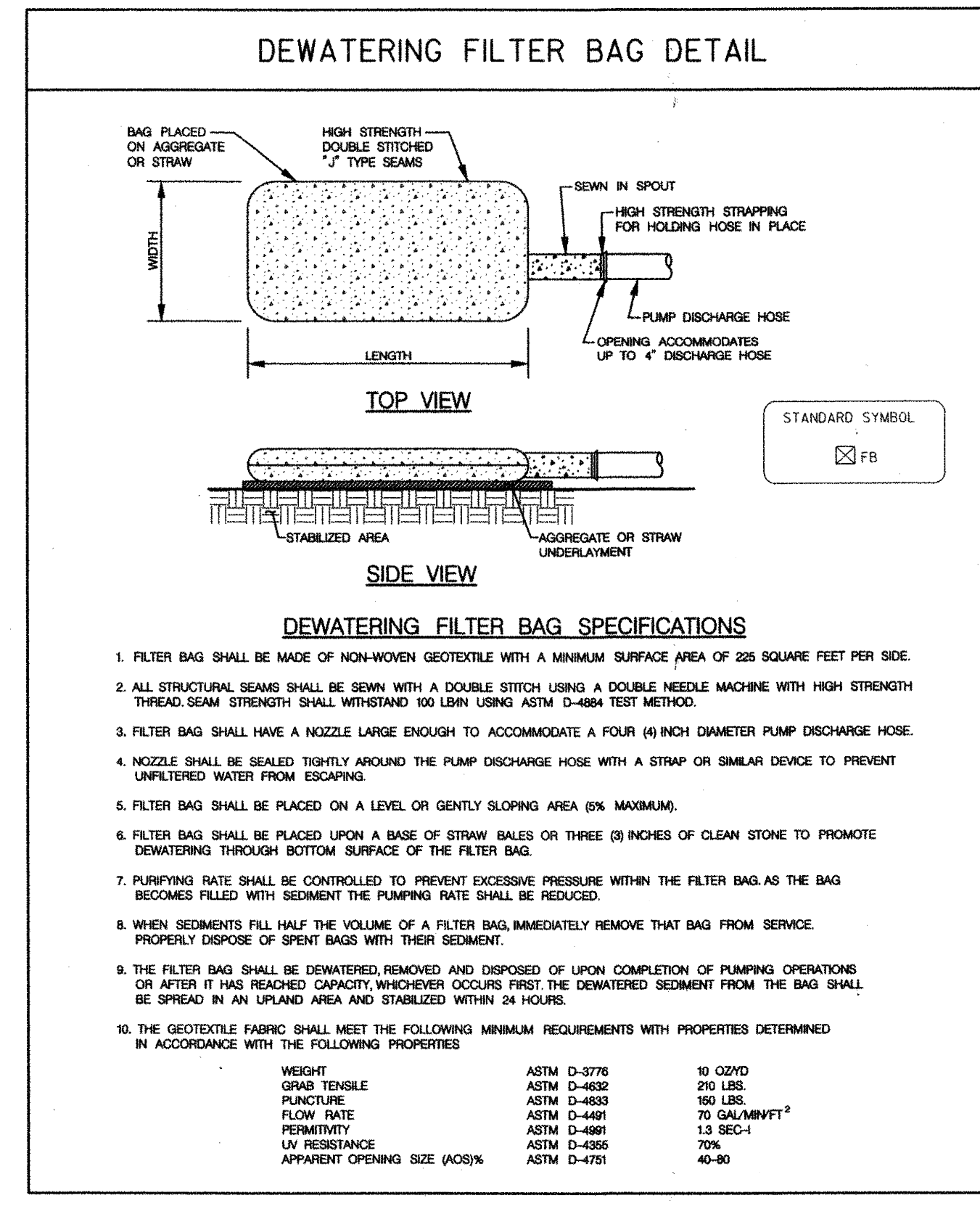
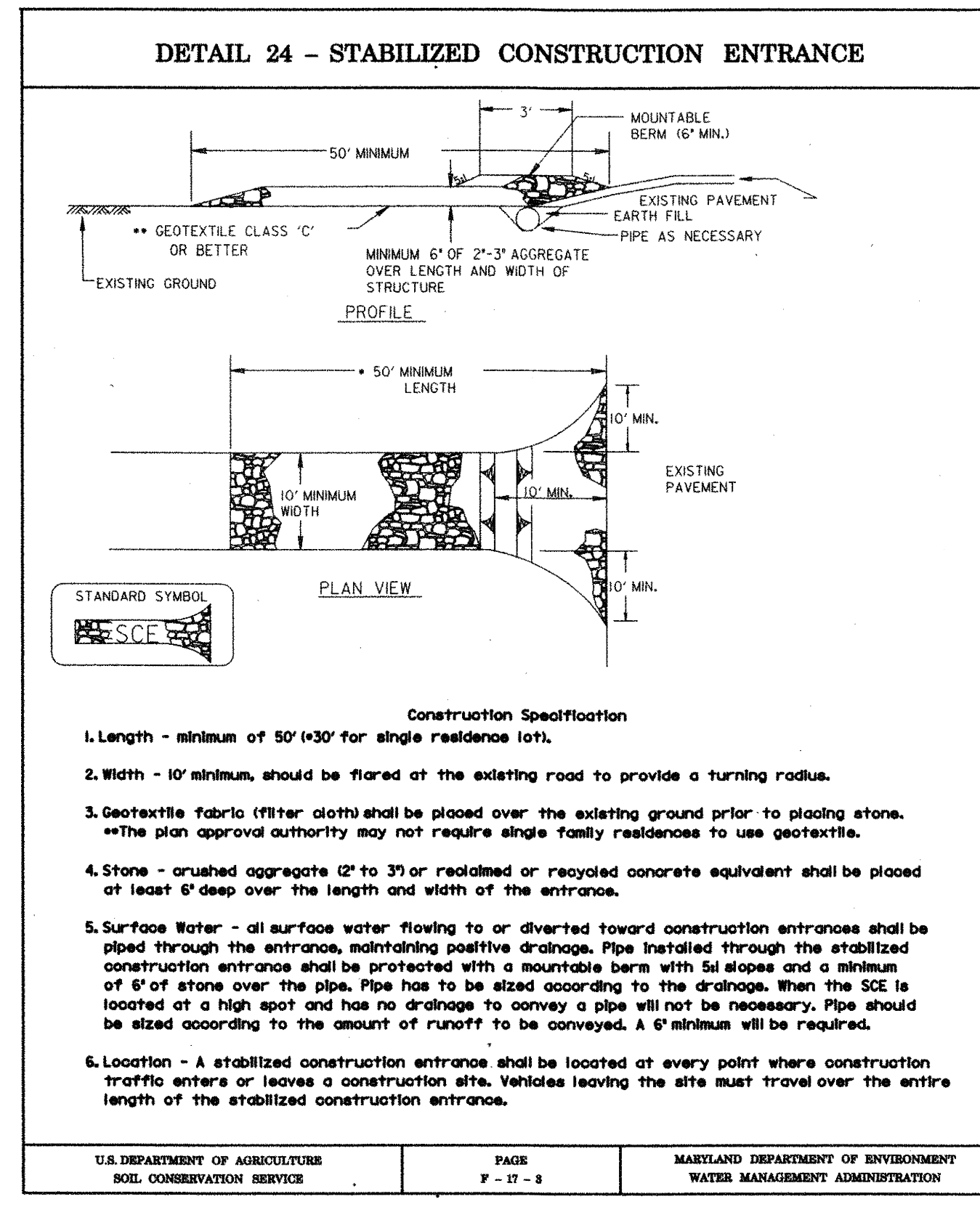
SILT FENCE

Silt Fence Design Criteria

Slope Steepness	(Maximum) Slope Length	(Maximum) Silt Fence Length
Flatter than 50:1	unlimited	unlimited
50:1 to 10:1	125 feet	1,000 feet
10:1 to 5:1	100 feet	750 feet
5:1 to 3:1	60 feet	500 feet
3:1 to 2:1	40 feet	250 feet
2:1 and steeper	20 feet	125 feet

Notes: In areas of less than 2X slope and sandy soils (USDA general classification system, soil class A) maximum slope length and silt fence length will be unlimited. In these areas a silt fence may be the only perimeter control required.

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE PAGE E-15-3A MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION



DETAIL 33 - SUPER SILT FENCE

Design Criteria

Slope	Slope Steepness	Slope Length (maximum)	Silt Fence Length (maximum)
0 - 10%	0 - 10:1	Unlimited	Unlimited
10 - 20%	10:1 - 5:1	200 feet	1,500 feet
20 - 33%	5:1 - 3:1	100 feet	1,000 feet
33 - 50%	3:1 - 2:1	100 feet	500 feet
50% +	2:1 +	50 feet	250 feet

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE PAGE H-26-3A MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

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EROSION AND SEDIMENT CONTROL DETAIL SHEET

SCALE
NOT TO SCALE

SHEET
10 OF 10