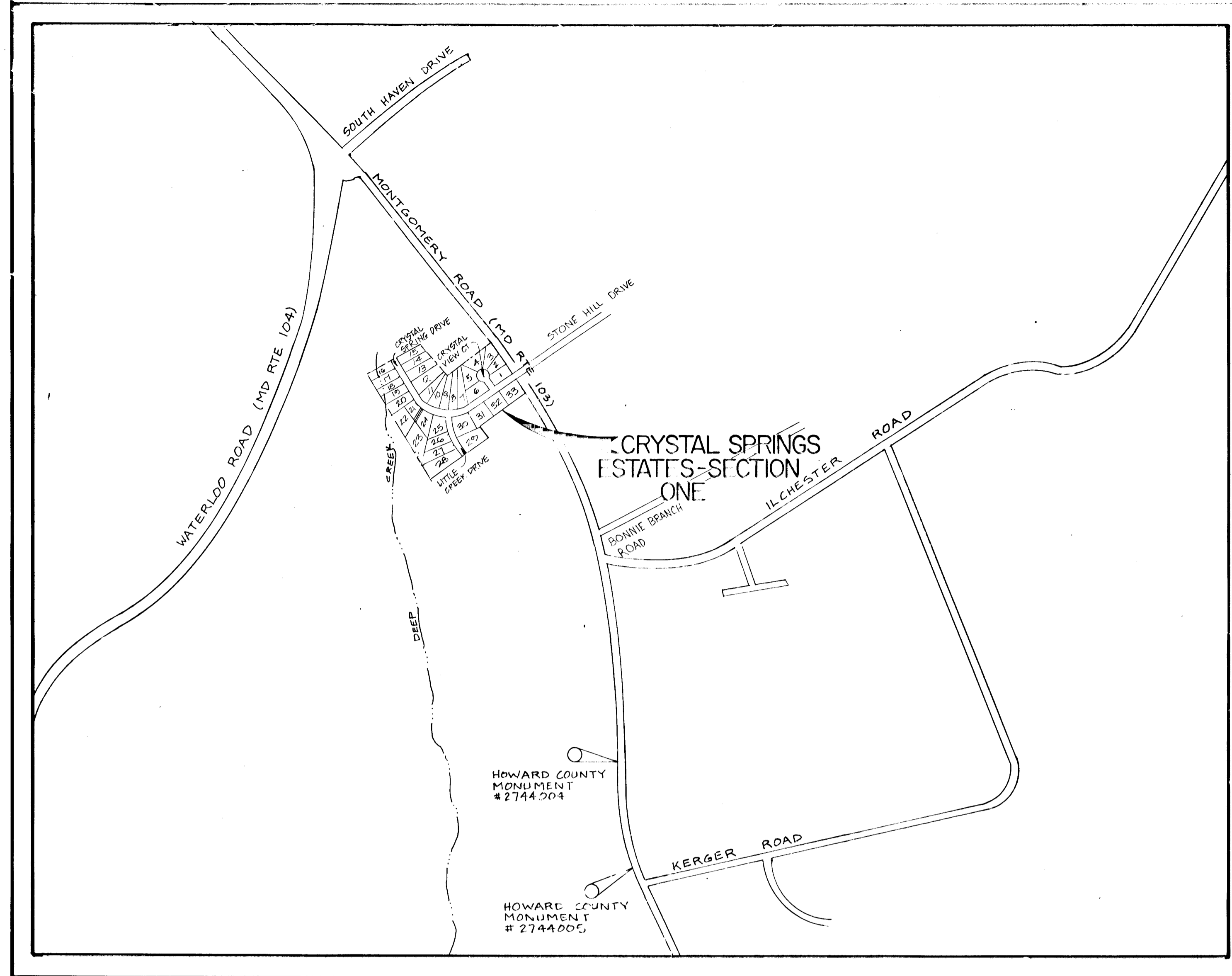


INDEX

1. COVER SHEET
2. PLAN & PROFILE - CRYSTAL SPRINGS DRIVE, & CRYSTAL VIEW COURT
3. PLAN & PROFILE - CRYSTAL SPRINGS DRIVE
4. PLAN & PROFILE - LITTLE CREEK DRIVE
5. PLAN & PROFILE - MARYLAND ROUTE 103
6. STORM DRAIN PROFILE & DETAILS
7. DRAINAGE AREA MAP
8. GRADING & SEDIMENT CONTROL PLAN
9. GRADING & SEDIMENT CONTROL PLAN
10. DETAIL & CONSTRUCTION NOTES



LOCATION MAP
SCALE: 1" = 600'

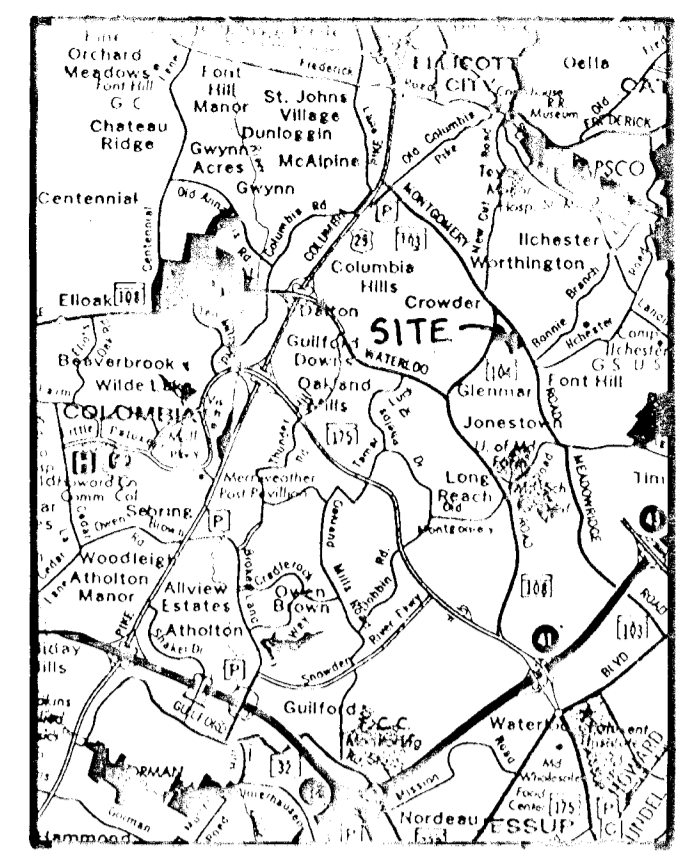
CRYSTAL SPRINGS ESTATES

SECTION ONE

ROAD CONSTRUCTION DRAWINGS

1ST ELECTION DISTRICT

HOWARD COUNTY, MARYLAND



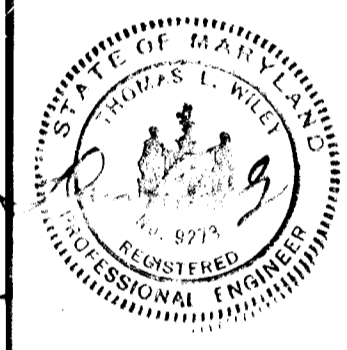
VICINITY MAP
SCALE: 1" = 2000'

GENERAL NOTES

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH HOWARD COUNTY STANDARDS, SPECIFICATIONS, AND DETAILS FOR CONSTRUCTION.
2. ALL UTILITY COMPANIES MUST BE NOTIFIED 24-HOURS IN ADVANCE OF ANY CONSTRUCTION.
3. STORM DRAINAGE - TRENCHES WITHIN ROAD RIGHT-OF-WAYS SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH HOWARD COUNTY CODE.
4. ANY DAMAGE TO PUBLIC RIGHT-OF-WAYS, PAVING, OR EXISTING UTILITIES WILL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.
5. CONTRACTOR TO NOTIFY THE HOWARD COUNTY INSPECTION AND SURVEY DIVISION AT LEAST 3 DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS. TELEPHONE 792-7272.
6. 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 MAINTAIN UNINTERRUPTED SERVICE.
7. ALL TRAFFIC CONTROL DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, 1978 EDITION.
8. STREET TREES TO BE PROVIDED AS REQUIRED BY SECTION 16.131 OF THE HOWARD COUNTY SUBDIVISION AND LAND DEVELOPMENT REGULATIONS.
9. CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE (5) WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS.
 - STATE HIGHWAY ADMINISTRATION 531-5533
 - BALTIMORE GAS AND ELECTRIC COMPANY - UNDERGROUND ELECTRIC DISTRIBUTION CUSTOMER SERVICE 685-0123
 - BALTIMORE GAS AND ELECTRIC COMPANY - UNDERGROUND GAS DISTRIBUTION CUSTOMER SERVICE 685-0123
 - ENGINEERING - DAMAGE CONTROL 234-5611
 - "MISS UTILITY" 1-559-0100
 - CHESSAPEAKE & POTOMAC (C&P) TELEPHONE COMPANY 725-9976
 - AMERICAN TELEPHONE AND TELEGRAPH - CABLE LOCATION DIVISION 373-3533
 - COLONIAL PIPELINE COMPANY 795-1390
 - BURBANK UTILITIES HOWARD COUNTY 992-2366
10. NO CONSTRUCTION WILL BE PERMITTED WITHIN THE WETLAND AREAS, UNLESS AND UNTIL A WETLAND AND WATER QUALITY CERTIFICATION IS OBTAINED TO WORK WITHIN THESE AREAS.

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. Willy 2/1/89
THOMAS L. WILLY MD REG NO 5273 DATE



I HAVE CERTIFIED 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 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.

Berton Construction 2/1/89
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 2/29/89
JAMES M. HELM DATE

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

Robert W. Ziehm 8/29/89
ROBERT W. ZIEHM DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Samuel W. Johnson 9/19/89
SAMUEL W. JOHNSON DATE
CHIEF, LAND DEVELOPMENT DIVISION

Francis W. Weisand 9/19/89
FRANCIS W. WEISAND DATE
CHIEF, BUREAU OF HIGHWAYS

Richard S. Reid 9-20-89
RICHARD S. REID DATE
CHIEF, BUREAU OF ENGINEERING

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

J.B. DATE
CHIEF, DIVISION OF COMMUNITY PLANNING & LAND DEVELOPMENT

		REVISIONS	
DESIGNED	DATE	DATE	DESCRIPTION
FLW	6-6-88		
DRAWN	W.E.O.	6-6-88	
CHECKED			
APPROVED			

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



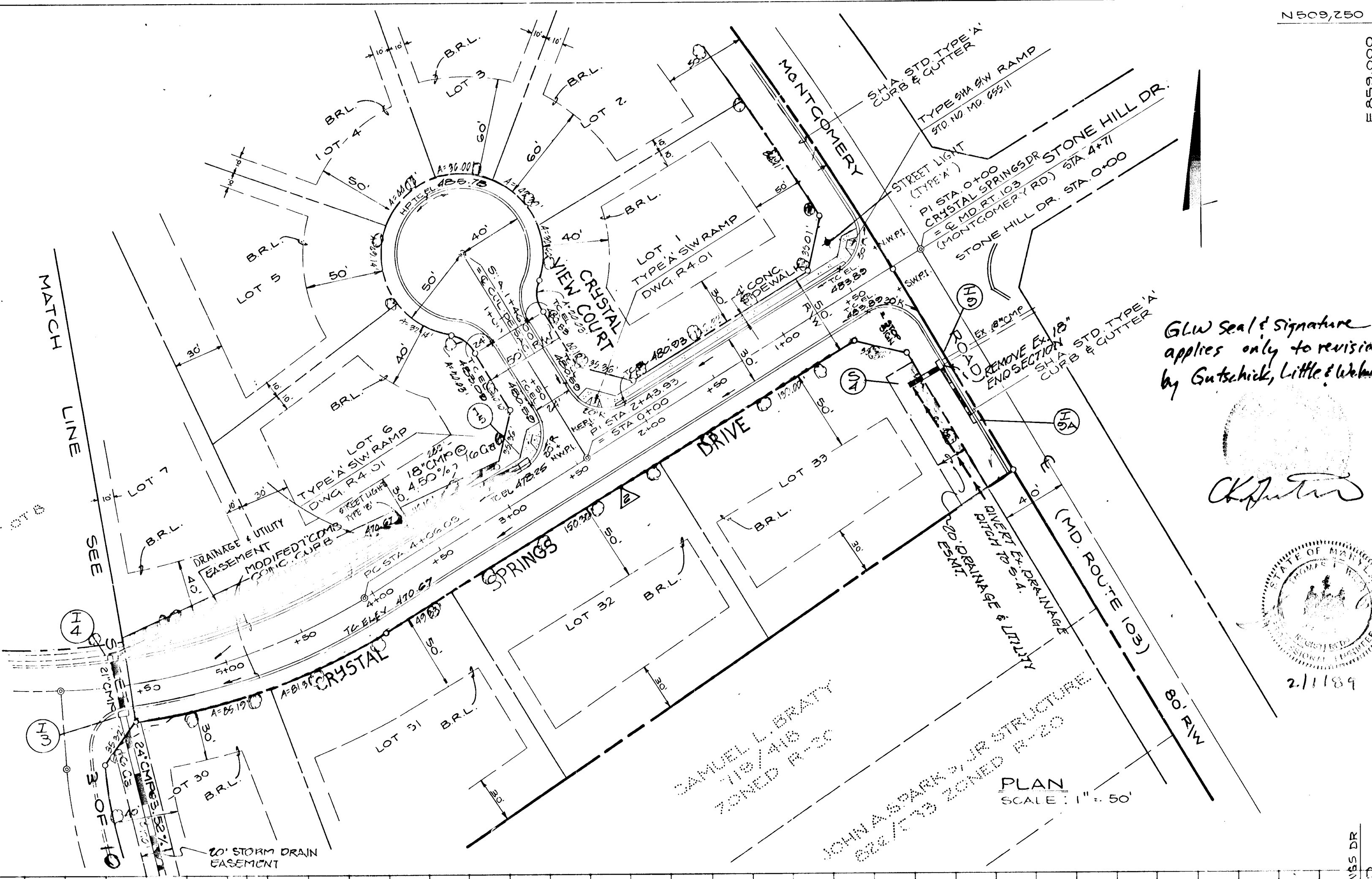
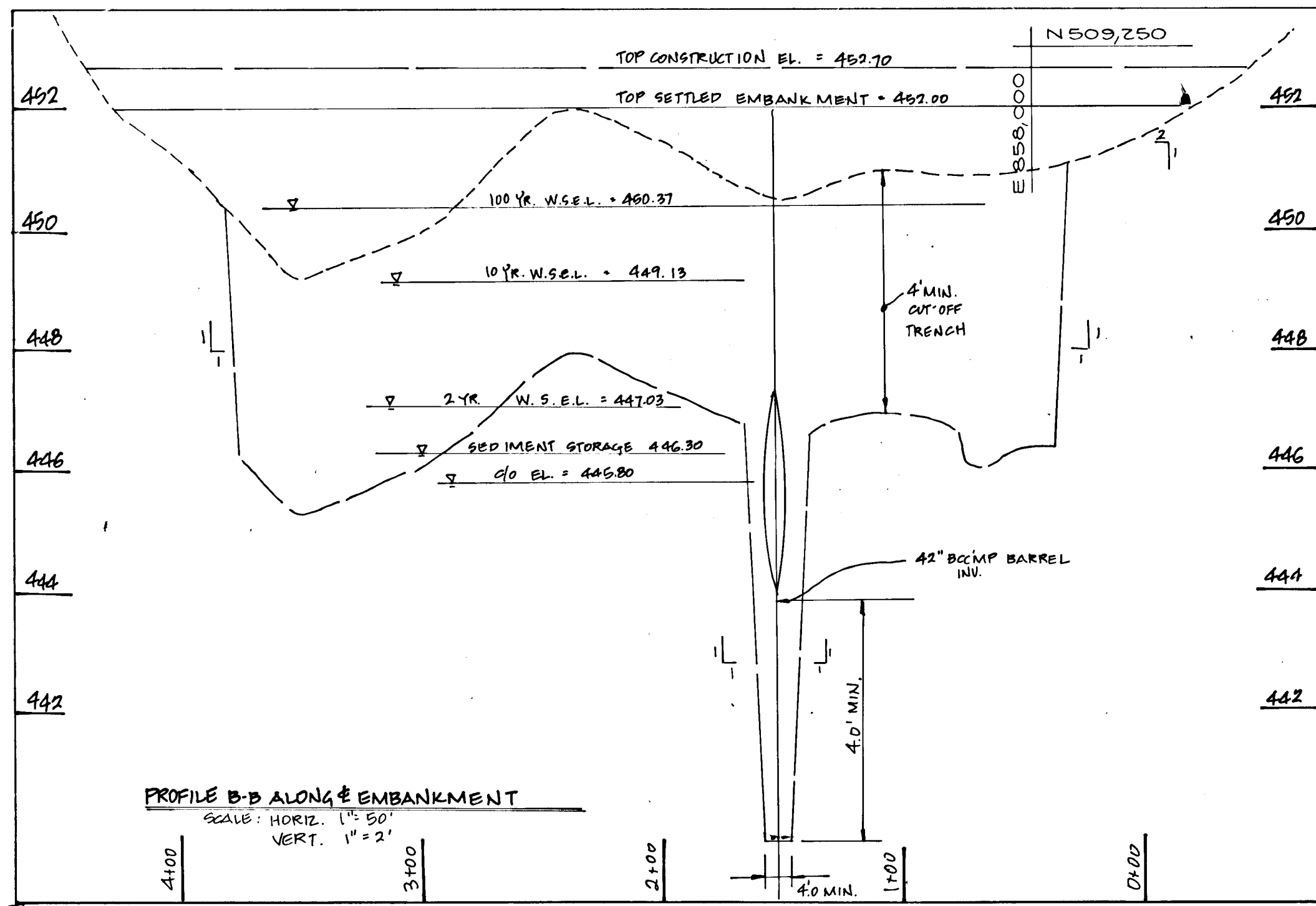
BERTON CONSTRUCTION COMPANY
6110 EXECUTIVE BOULEVARD • SUITE 1090
ROCKVILLE, MARYLAND 20852
(301) 770-2450

CRYSTAL SPRINGS ESTATES
SECTION ONE
TAX MAP 31 PARCEL 175
1ST ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

LANDSCAPE SCHEDULE				
SYMBOL	QUANTITY	NAME	SIZE	REMARKS
⊙	BT	ACER SACCHARUM (SUGAR MAPLE)	1 1/2" GAL (MIN.)	BALLED AND BURLAPPED
⊙	B	ORTEGASUS PHAENOPYRUM (WASHINGTON HAZELBORN)	2 1/2" GAL (MIN.)	BALLED AND BURLAPPED

1470

F08-278



CURVE DATA

CRISTAL SPRINGS DR
PC STA. 4+06.09 TO
PT STA. 10+24.06
R = 393.24'
Δ = 90° 02' 15"
A = 617.96'
T = 393.50'
C = 556.31'
CB = N76° 15' 37" W

PLAN SHEET NO. 101
DATE 2/19/89

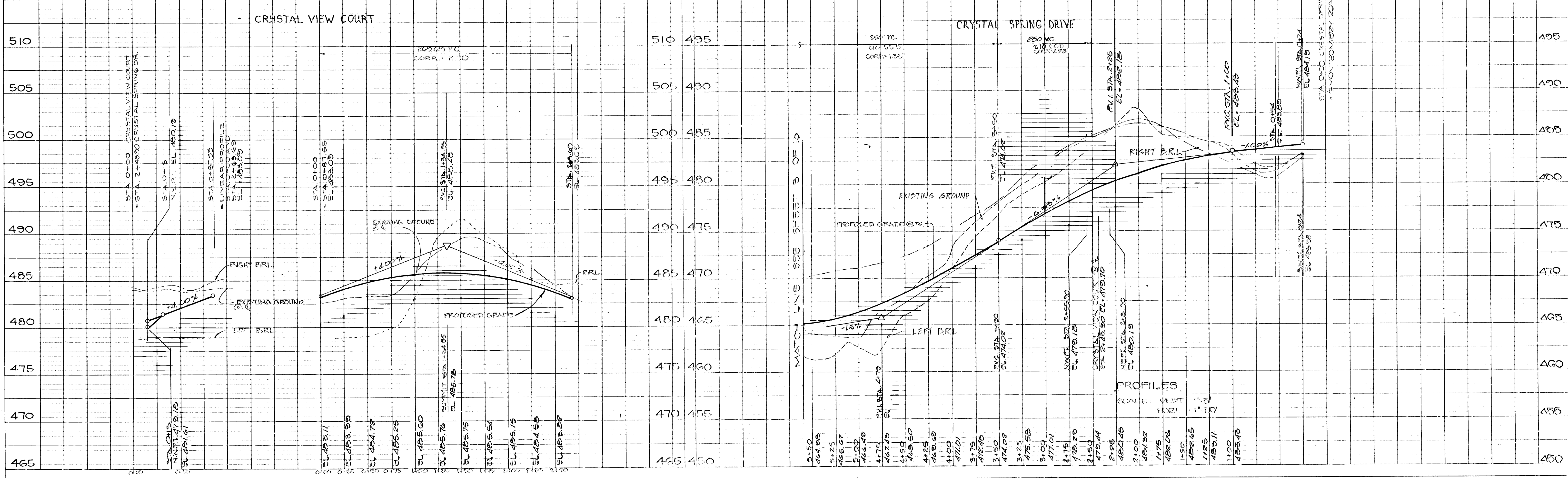
APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Donald J. Gapan 2/19/89
Granville W. Welland 9/19/89
William B. Riley 9-20-89

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

Mark S. Young 2/29/89

PROFILE SHEET NO. 102
DATE 2/19/89



1470

GLW seal & signature applies only to revisions by Gutschick, Little & Weber, P.A.



Ch...



2/11/84

DATE	BY	REVISION

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Donald W. Sapan 9/19/83
 COUNTY ENGINEER

Lawrence W. Weiland 9/19/83
 COUNTY ENGINEER

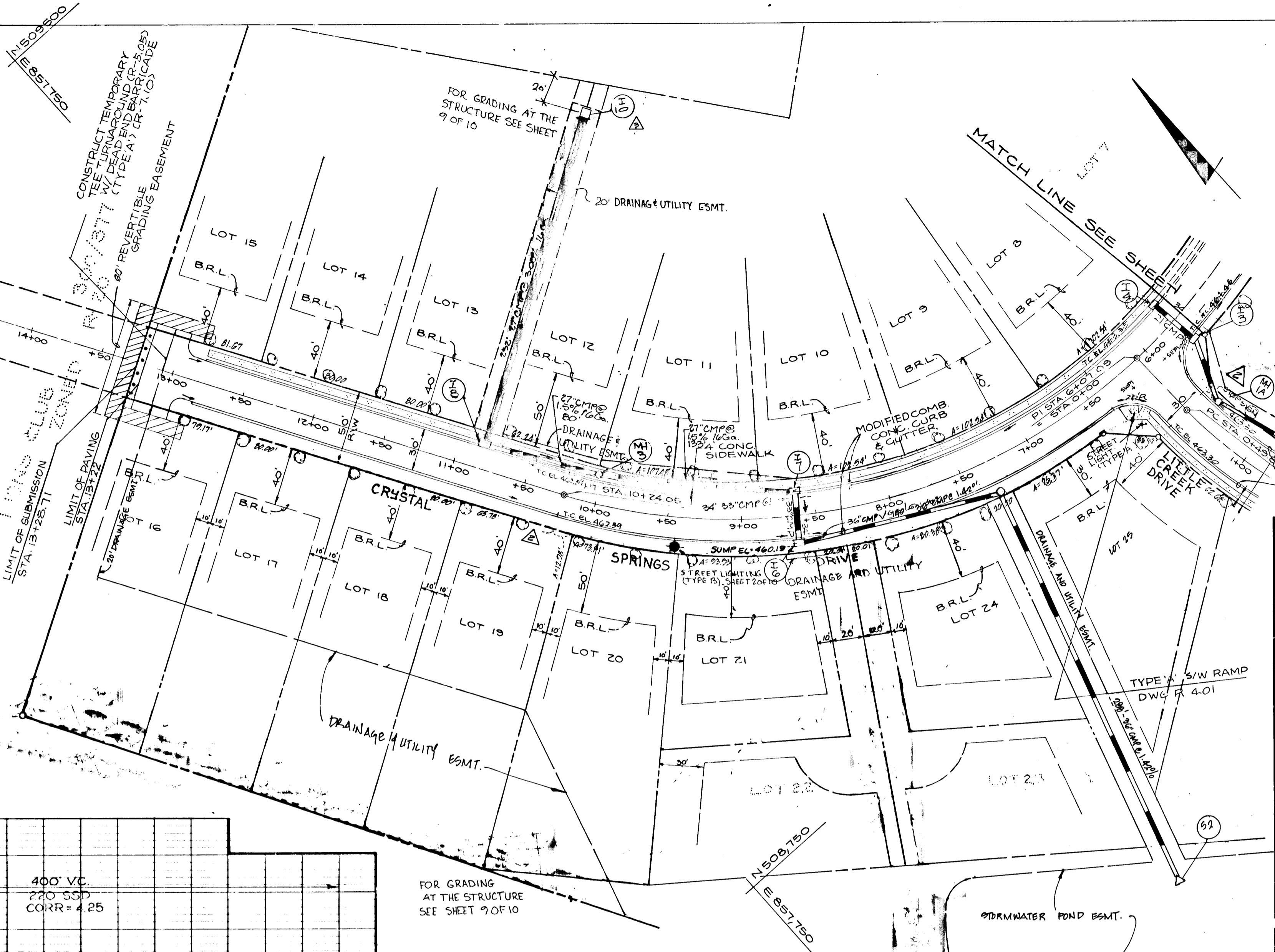
Richard S. Reig 9-20-83
 COUNTY ENGINEER

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

Frank J. D'Angelo 9/23/83
 COUNTY ENGINEER

CURVE DATA
 CRYSTAL SPRINGS DR.
 PC STA. 4+06.09 TO
 PT STA. 10+24.05
 R = 393.24'
 Δ = 90° 02' 15"
 A = 617.96'
 T = 393.50'
 C = 556.31'
 CB = N 76° 15' 31" W

PLAN SCALE: 1"=50'



CRYSTAL SPRINGS ESTATES SECTION I
 TAX MAP 31 PARCEL 175
 1ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND

CRYSTAL SPRINGS DR.
 PLAN & PROFILE

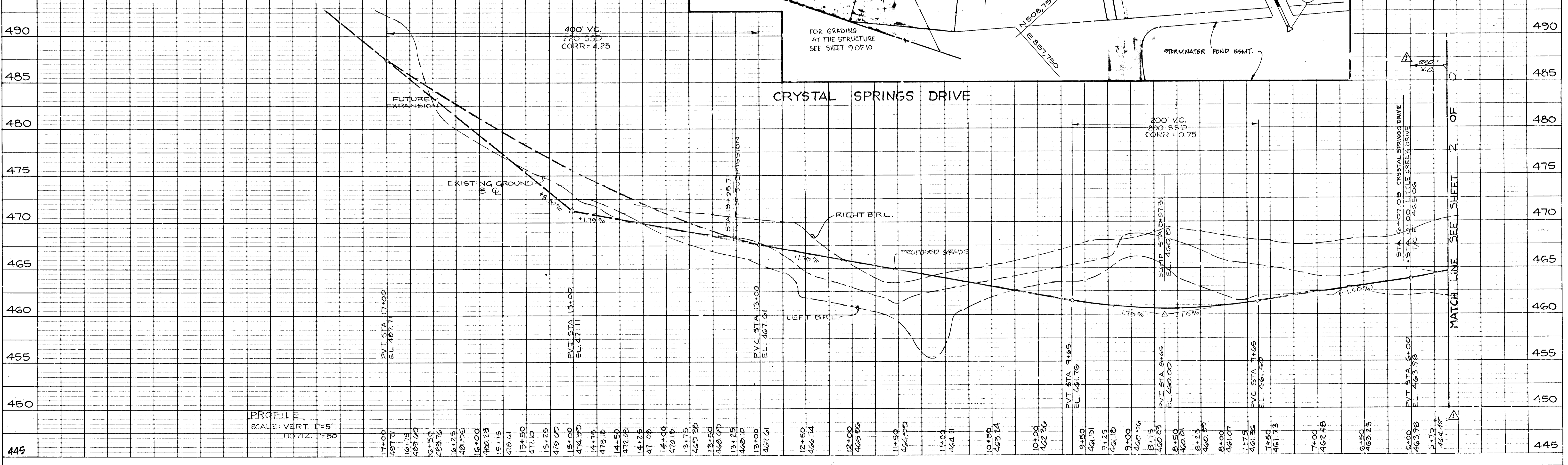
BERTON CONSTRUCTION COMPANY
 6110 Executive Boulevard Suite 1090
 Rockville, MD 20852
 (301) 770-2450

SCALE: AS SHOWN DATE: JUN 3, 88 DWG 3 OF 10
 DE S. F. LIN DRN. W.D.G. CHK.

DEWBERRY & DAVIS
 ARCHITECTS - ENGINEERS - PLANNERS - SURVEYORS
 3300 N. RIDGE RD. SUITE 100 EL LICOTT CITY, MD. TELE 401 7475

DATE	BY	REVISION

10/11/82	GLW	change HW3 to I-10 D-inlet	△
7/18/81	GLW	REMOVED SIDEWALK FROM SOUTH SIDE OF CRYSTAL SPRINGS DRIVE & THE EAST SIDE OF LITTLE CREEK DR.	△
12/18/80	WBO	REVERSE ELEVATION	△

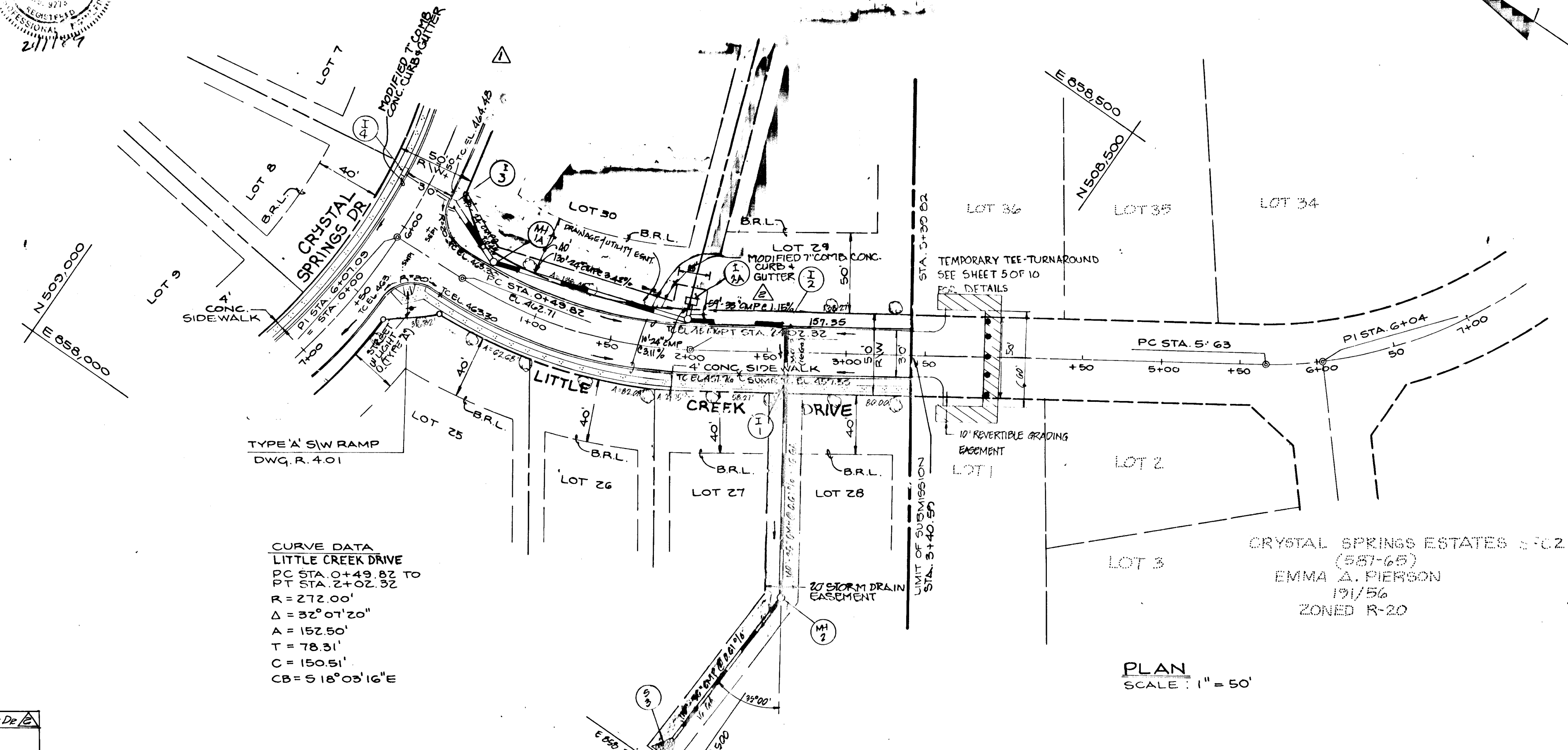


PROFILE SCALE: VERT. 1"=5' HORIZ. 1"=50'

1470

GLW seal & signature applies only to revisions by Gutschick, Little & Weber, P.A.

[Signature]



PLAN SCALE: 1" = 50'



CRYSTAL SPRINGS ESTATES SECTION I
 TAX MAP 31 PARCEL 175
 1ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND

LITTLE CREEK DRIVE PLAN & PROFILE

BERTON CONSTRUCTION COMPANY
 6110 Executive Boulevard • Suite 1090
 Rockville, MD 20852
 (301) 770-2450

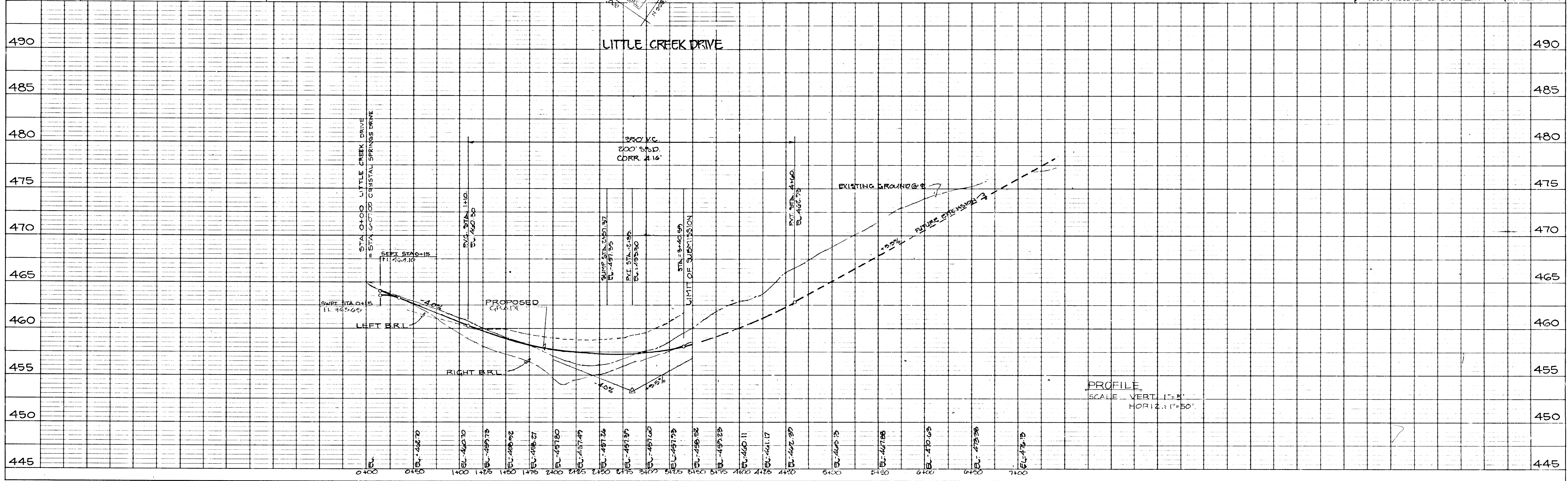
SCALE: AS SHOWN DATE: JUN 28 88 DWG 4 OF 10
 DES. F. LIN. DRN. W.D.G. CHK.

DEWBERRY & DAVIS
 ARCHITECTS-ENGINEERS-PLANNERS-SURVEYORS
 7300 N. RIDGE RD. SUITE 100 ELLICOTT CITY, MD TELE 461-7478

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
[Signature] 2/19/89
[Signature] 9/19/89
[Signature] 9-20-89

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
[Signature] 9/23/89

7/2/81	GLW	REMOVED SIDEWALK FROM EAST SIDE OF LITTLE CREEK DRIVE
12/18/80	WED	REVISED ELEVATION



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

HIGHWAY FEDERAL AID SHEET
 PLATE 1-SINGLE PLAN AND PROFILE-FULL LINE
 PRINTED IN U.S.A.

1470

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 AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.
 2/1/89
 THOMAS L. WILLEY MD REG NO 9673 DATE

DEVELOPER'S CERTIFICATE
 WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL 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 INSPECTION BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS AS ARE DEEMED NECESSARY.
 2/1/89
 DATE

REVIEW FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.
 4/24/89
 DATE

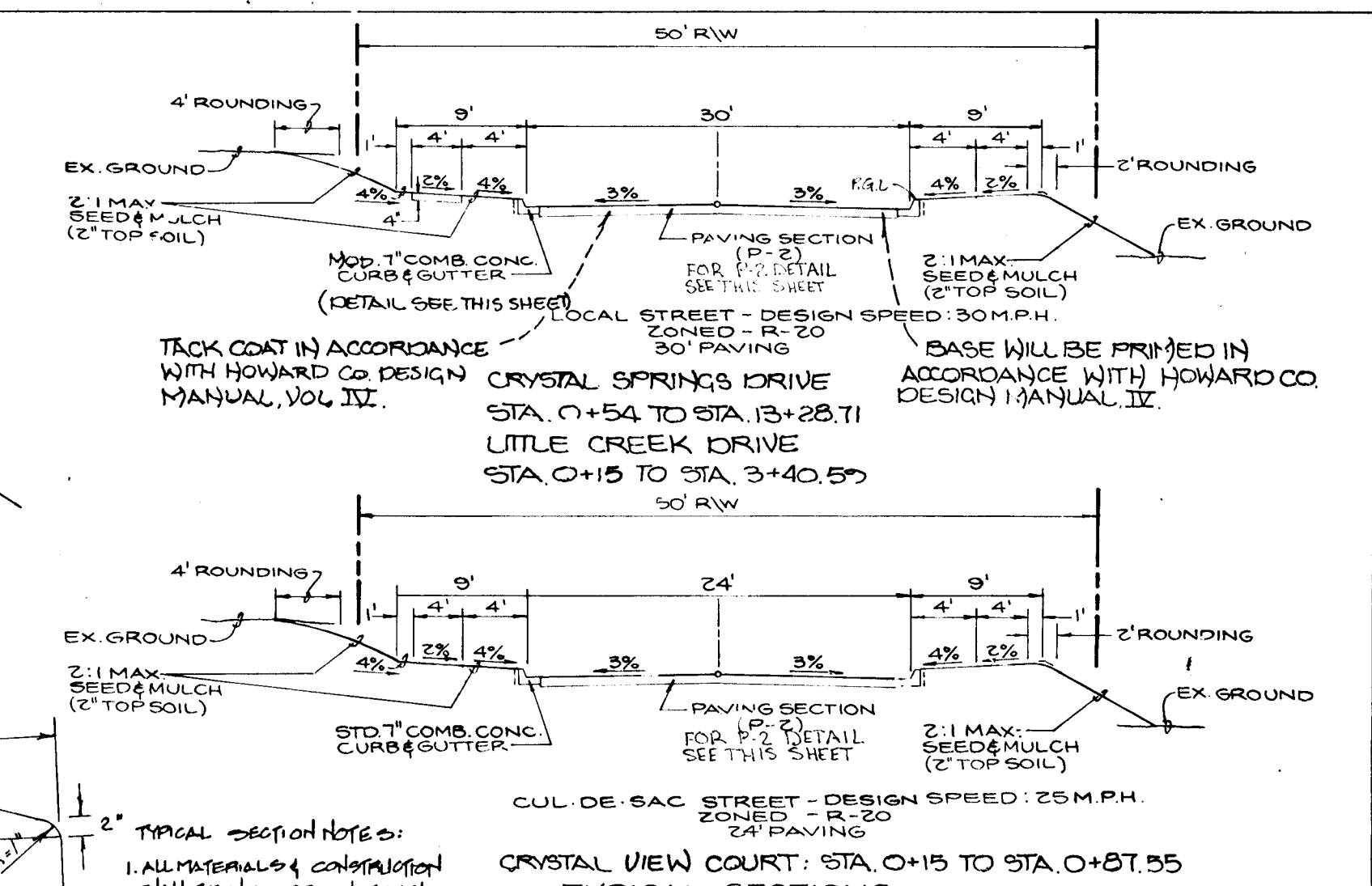
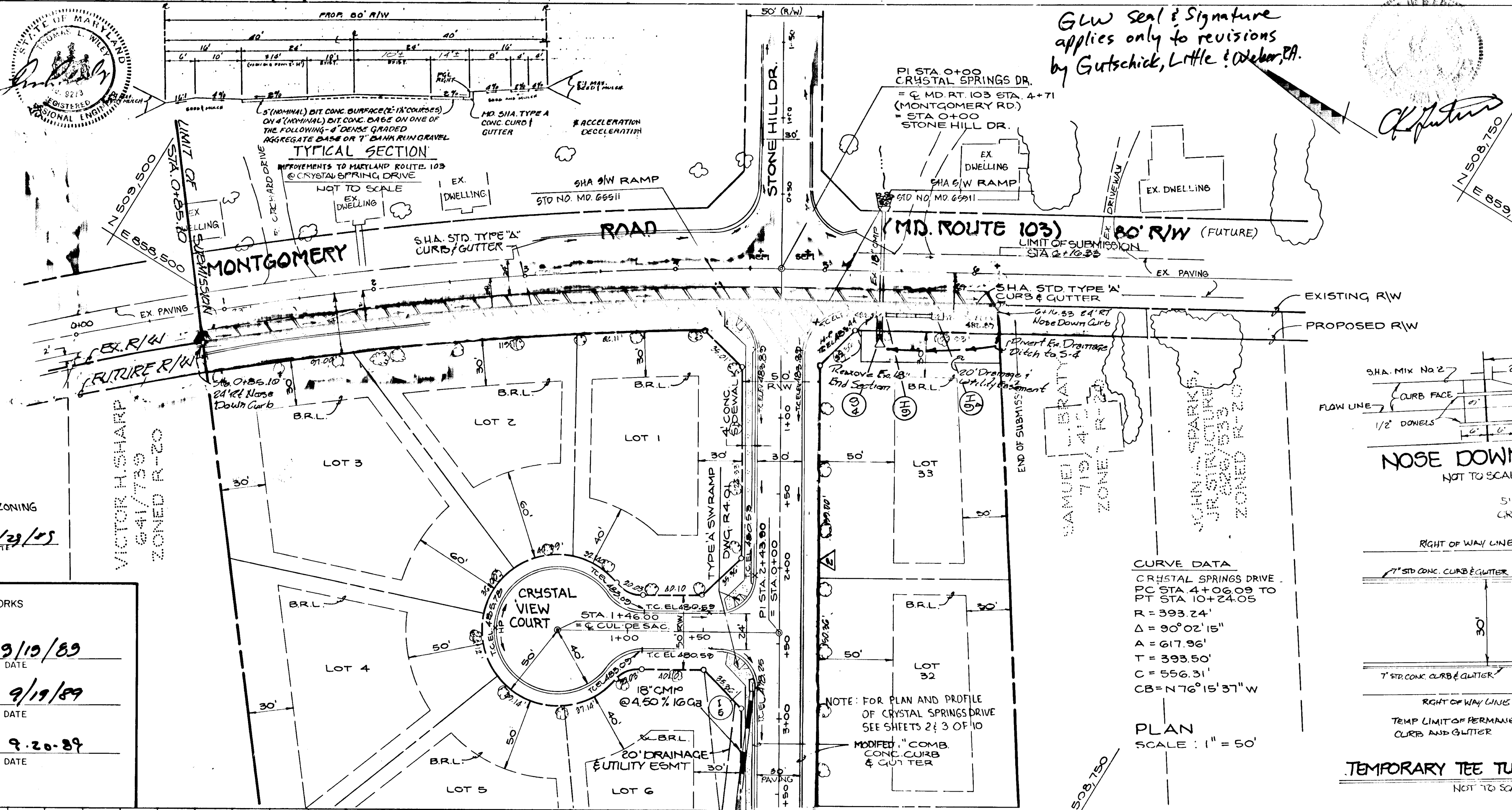
APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.
 8/29/89
 DATE

APPROVED HOWARD COUNTY OFFICE OF PLANNING AND ZONING
 2/23/89
 DATE

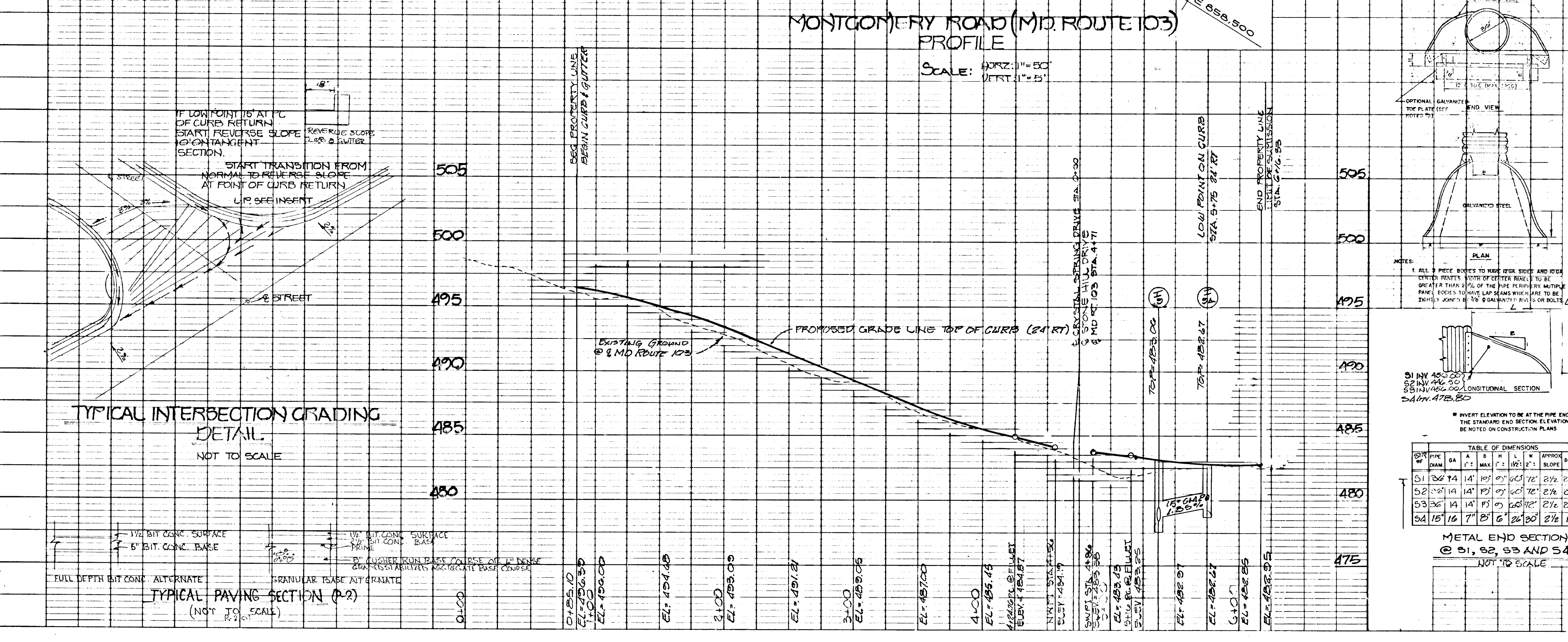
APPROVED HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 9/10/89
 DATE

9/19/89
 DATE

9-20-89
 DATE



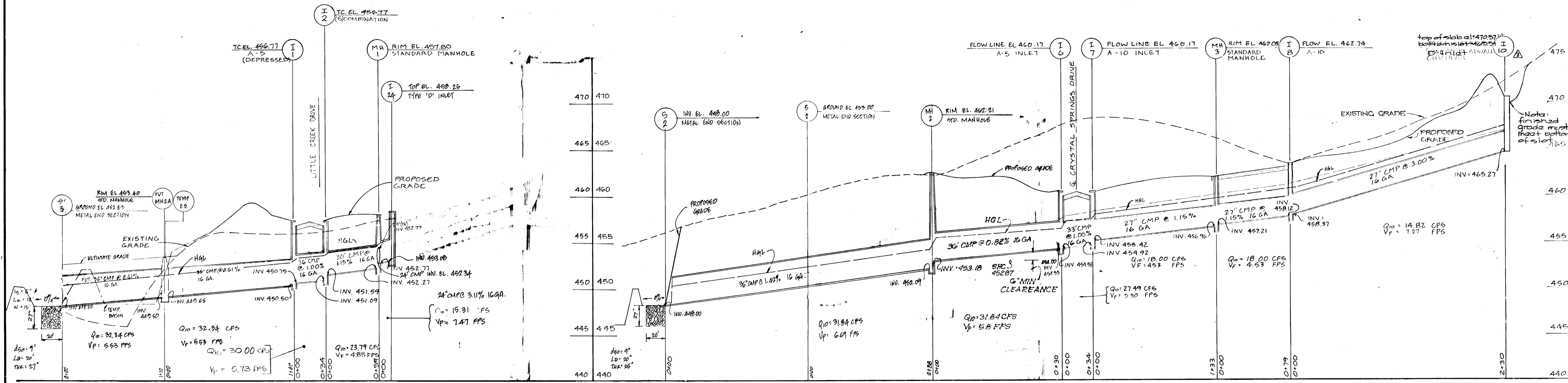
CRYSTAL SPRINGS ESTATES SECTION I
 TAX MAP 3 PARCEL 175
 1ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND
CRYSTAL VIEW COURT
PLAN & PROFILE
BERTON CONSTRUCTION COMPANY
 6110 Executive Boulevard • Suite 1090
 Rockville, MD 20852
 (301) 770-2450
 SCALE: AS SHOWN DATE: 6-6-88 DWG. 5 OF 10
 DES. F.U.M. DRN. W.D.G. CHK.
DEWBERRY & CHAVIS
 ARCHITECTS-ENGINEERS-PLANNERS-SURVEYORS
 3300 N. RIDGE RD. SUITE 100 ELLICOTT CITY, MD. TELE. 461-7478



STRUCTURE SCHEDULE

STRUCTURE NO.	TYPE	TOP ELE.	INV. IN.	INV. OUT.	REMARKS	STATION C
11	A-5 (DEPR.)	456.77	450.75	450.50	SD-4.01	LITTLE CREEK DRIVE 2452.37 R
12	S-CURB	456.77	451.59	451.09	SD-4.32	LITTLE CREEK DRIVE 2452.37 R
13	S-CURB	459.80	459.00	458.75	SD-4.32	CRYSTAL SPRINGS DRIVE 2472.00 R
14	S-CURB	459.80	459.62	459.37	SD-4.32	CRYSTAL SPRINGS DRIVE 2472.00 R
15	DOUBLE'S CURB NORMAL TO VBR & BRIDGE	478.70	-	472.53	SD-4.33	CRYSTAL SPRINGS DRIVE 2475.90 R
16	A-5 (DEPR.)	468.75	454.58	454.33	SD-4.01	CRYSTAL SPRINGS DRIVE 2485.1 R
17	RECTANGULAR GRATE	468.75	459.42	459.02	SD-4.93	CRYSTAL SPRINGS DRIVE 2485.1 R
18	A-10	453.31	458.27	458.12	SD-4.02	CRYSTAL SPRINGS DRIVE 2485.1 R
19	5' COG	478.80	-	478.80	MD 314.91	CRYSTAL SPRINGS DRIVE 2485.1 R
MH 1	5'0" MANHOLE	457.00	452.00	452.27	CS-1.1	LITTLE CREEK DRIVE 2485.1 R
MH 2A	5'0" MANHOLE	452.27	452.27	452.27	CS-1.1	CRYSTAL SPRINGS DRIVE 2485.1 R
MH 2B	5'0" MANHOLE	452.27	452.27	452.27	CS-1.1	CRYSTAL SPRINGS DRIVE 2485.1 R
MH 3	5'0" MANHOLE	452.05	458.00	458.00	SD-5.11	LOT #16
MH 4	5'0" MANHOLE	452.00	458.00	458.00	SD-5.11	LOT #16
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MH 75	5'0" MANHOLE	452.00	458.00	458.00	SD-5.11	LOT #16
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MH 77	5'0" MANHOLE	452.00	458.00	458.00	SD-5.11	LOT #16
MH 78	5'0" MANHOLE	452.00	458.00	458.00	SD-5.11	LOT #16
MH 79	5'0" MANHOLE	452.00	458.00	458.00	SD-5.11	LOT #16
MH 80	5'0" MANHOLE	452.00	458.00	458.00	SD-5.11	LOT #16
MH 81	5'0" MANHOLE	452.00	458.00	458.00	SD-5.11	LOT #16
MH 82	5'0" MANHOLE	452.00	458.00	458.00	SD-5.11	LOT #16
MH 83	5'0" MANHOLE	452.00	458.00	458.00	SD-5.11	LOT #16
MH 84	5'0" MANHOLE	452.00	458.00	458.00	SD-5.11	LOT #16
MH 85	5'0" MANHOLE	452.00	458.00	458.00	SD-5.11	LOT #16
MH 86	5'0" MANHOLE	452.00	458.00	458.00	SD-5.11	LOT #16
MH 87	5'0" MANHOLE	452.00	458.00	458.00	SD-5.11	LOT #16
MH 88	5'0" MANHOLE	452.00	458.00	458.00	SD-5.11	LOT #16
MH 89	5'0" MANHOLE	452.00	458.00	458.00	SD-5.11	LOT #16
MH 90	5'0" MANHOLE	452.00	458.00	458.00	SD-5.11	LOT #16
MH 91	5'0" MANHOLE	452.00	458.00	458.00	SD-5.11	LOT #16
MH 92	5'0" MANHOLE	452.00	458.00	458.00	SD-5.11	LOT #16
MH 93	5'0" MANHOLE	452.00	458.00	458.00	SD-5.11	LOT #16
MH 94	5'0" MANHOLE	452.00	458.00	458.00	SD-5.11	LOT #16
MH 95	5'0" MANHOLE	452.00	458.00	458.00	SD-5.11	LOT #16
MH 96	5'0" MANHOLE	452.00	458.00	458.00	SD-5.11	LOT #16
MH 97	5'0" MANHOLE	452.00	458.00	458.00	SD-5.11	LOT #16
MH 98	5'0" MANHOLE	452.00	458.00	458.00	SD-5.11	LOT #16
MH 99	5'0" MANHOLE	452.00	458.00	458.00	SD-5.11	LOT #16
MH 100	5'0" MANHOLE	452.00	458.00	458.00	SD-5.11	LOT #16

1470



"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 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."

Lawrence J. Kelly 2/11/89
CITY ENGINEER

"I HEREBY CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS, AND THAT ANY PERSONNEL EMPLOYED IN THE CONSTRUCTION OF THIS PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION 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."

Berton Construction 2/11/89

ENGINE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION, AND SEDIMENT CONTROL.

Jama M. Nelson 8/22/89
CITY ENGINEER

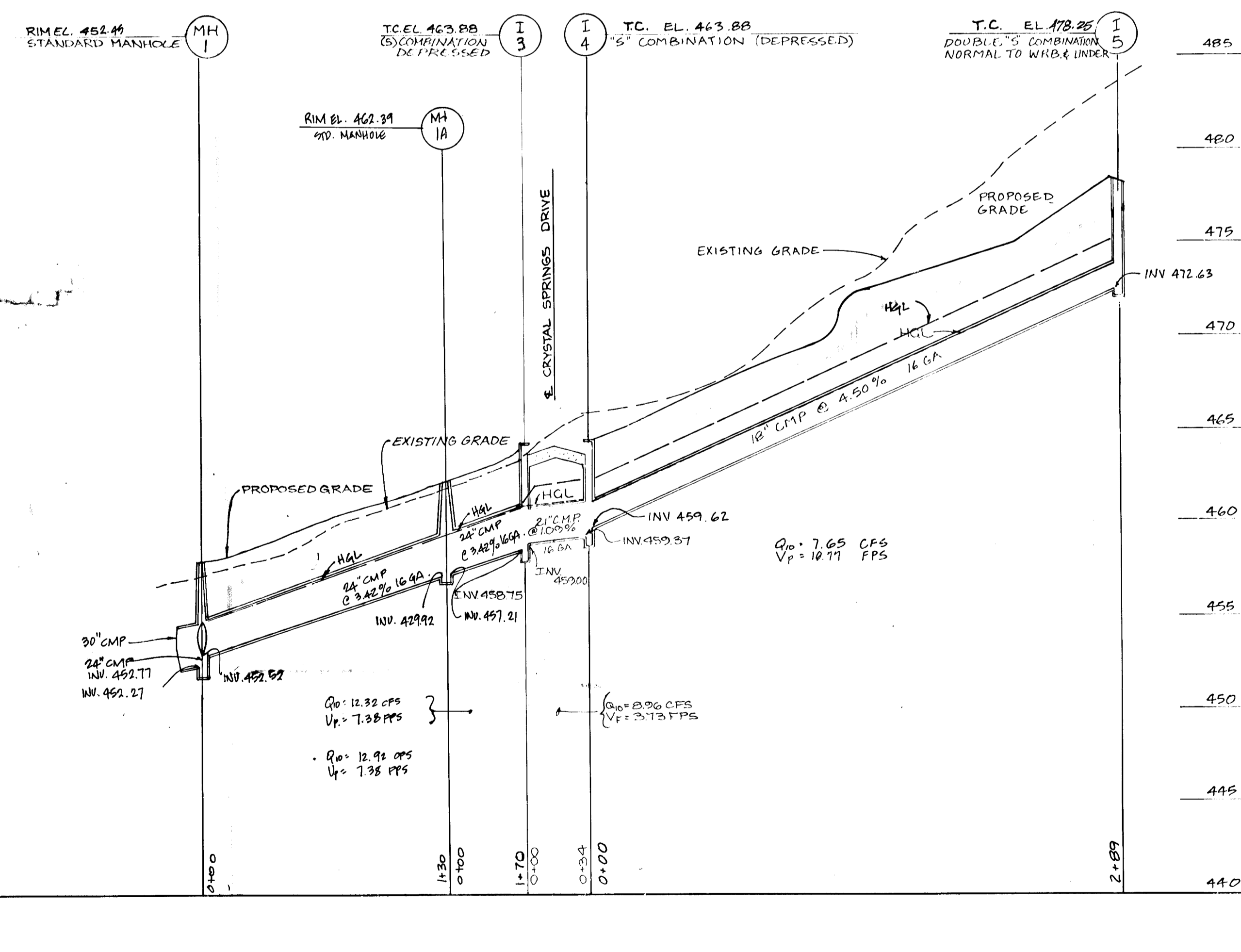
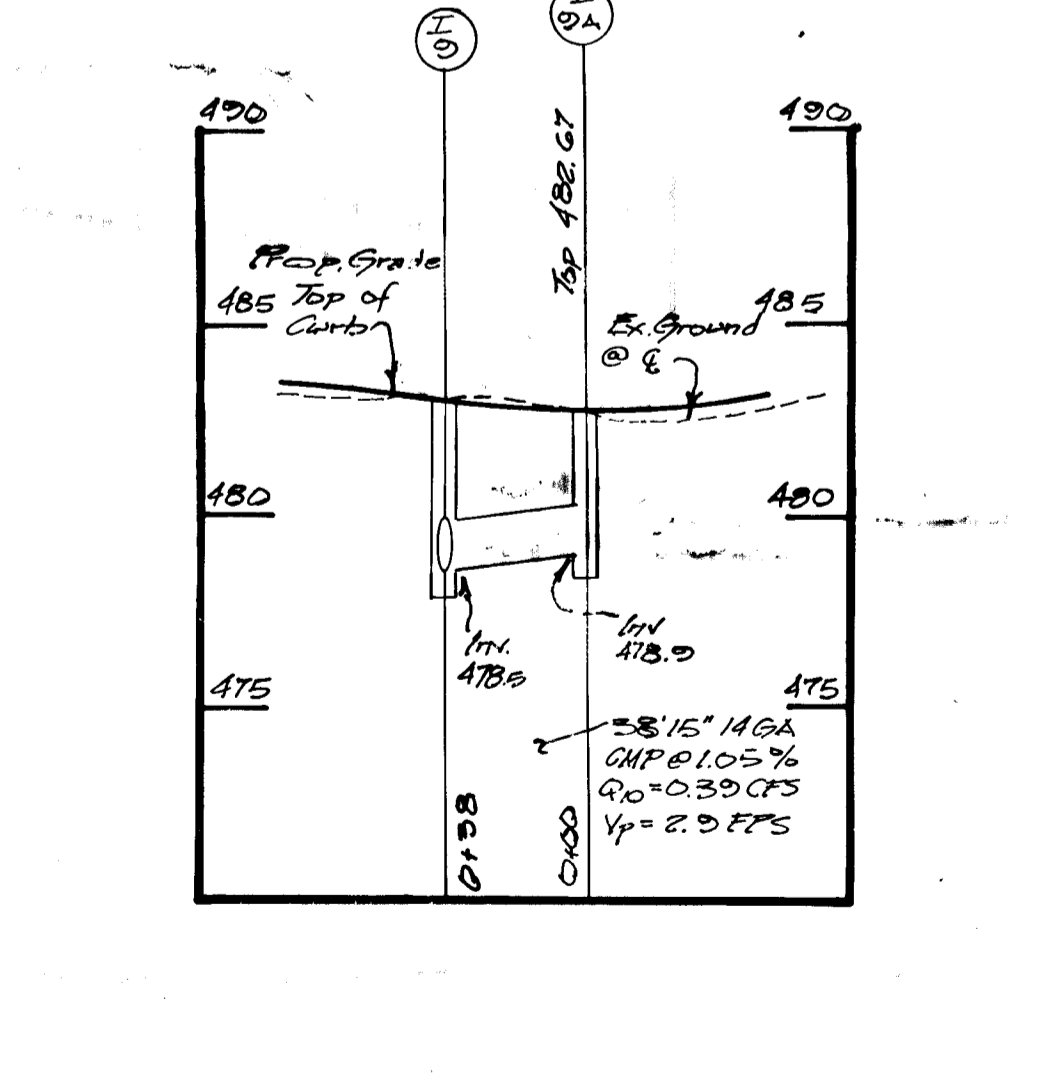
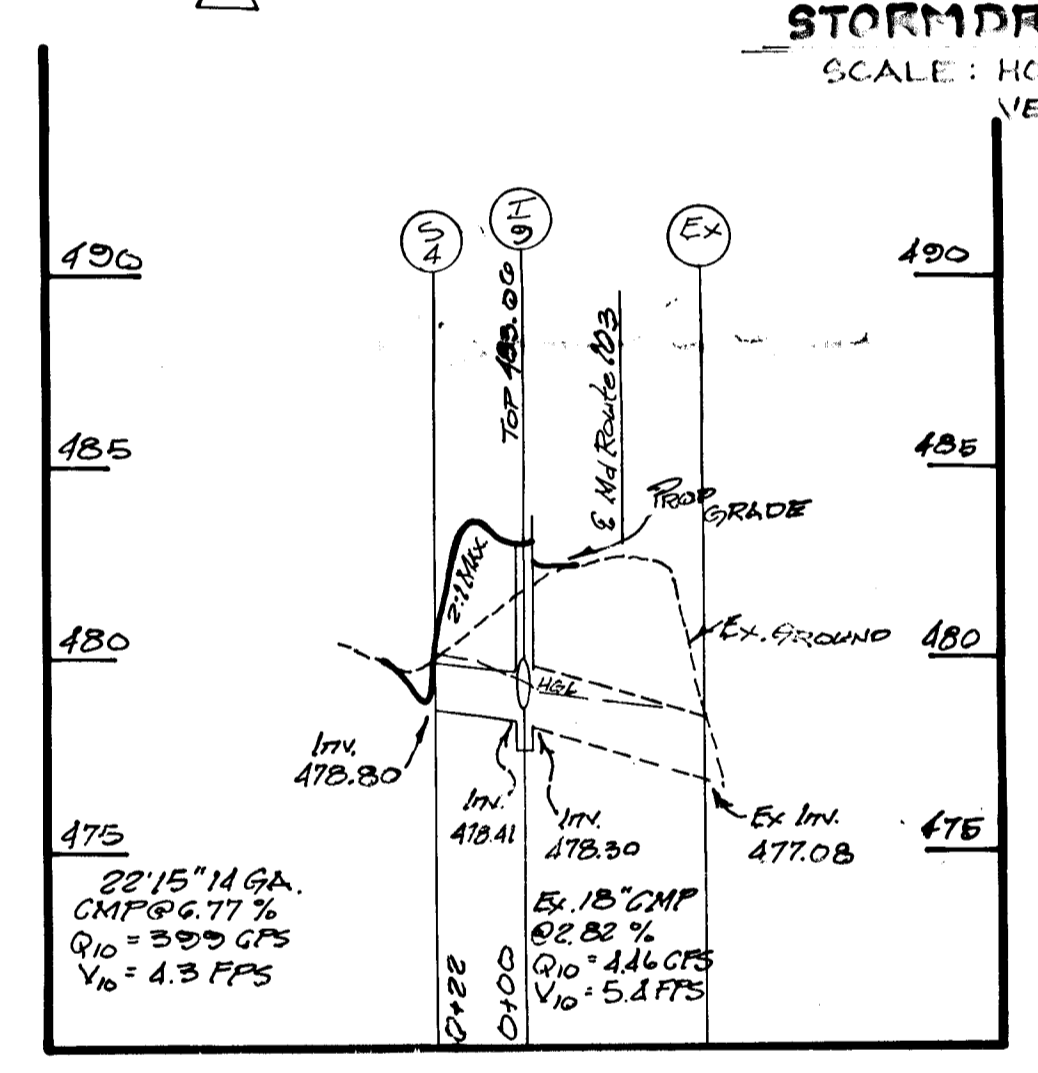
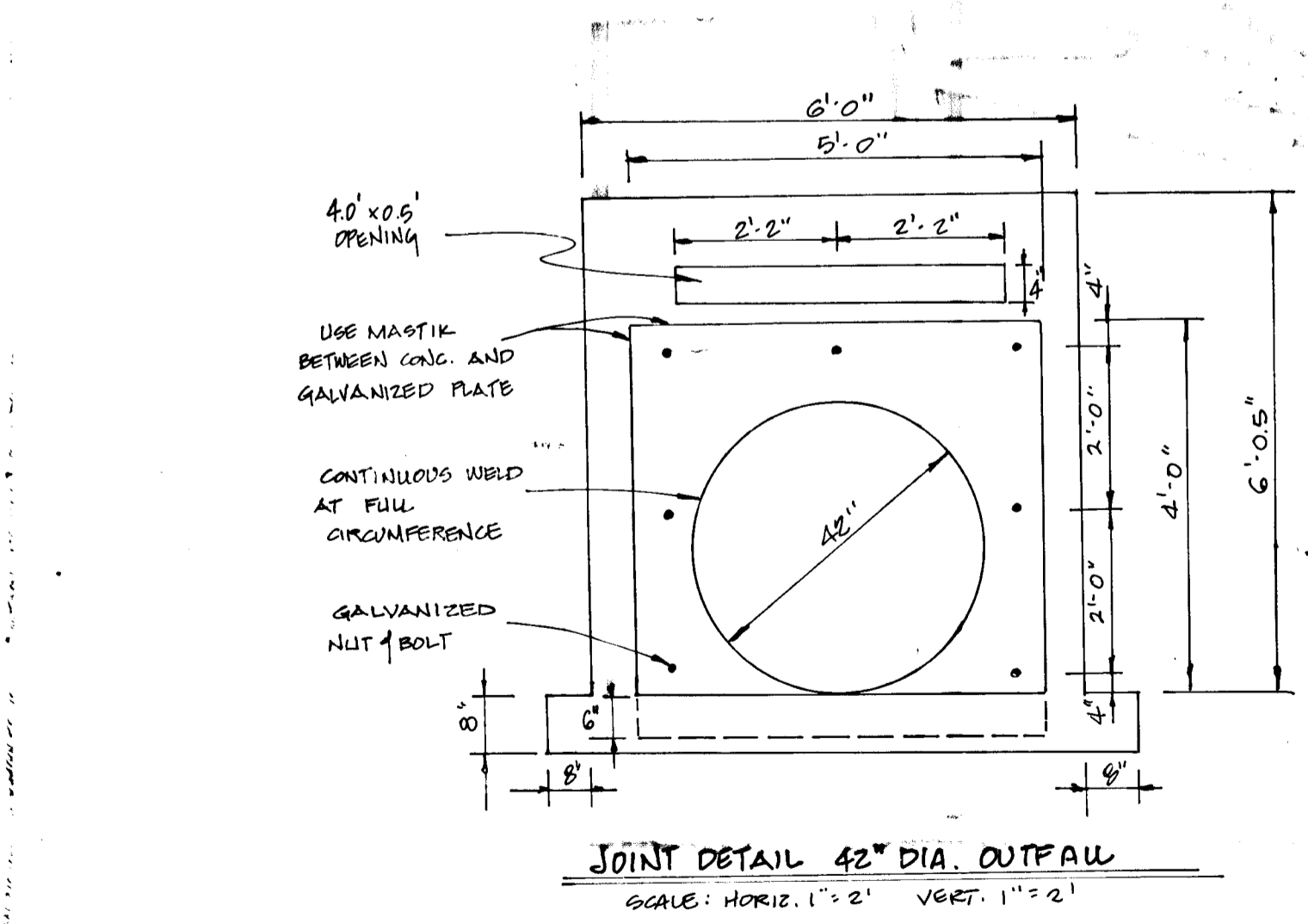
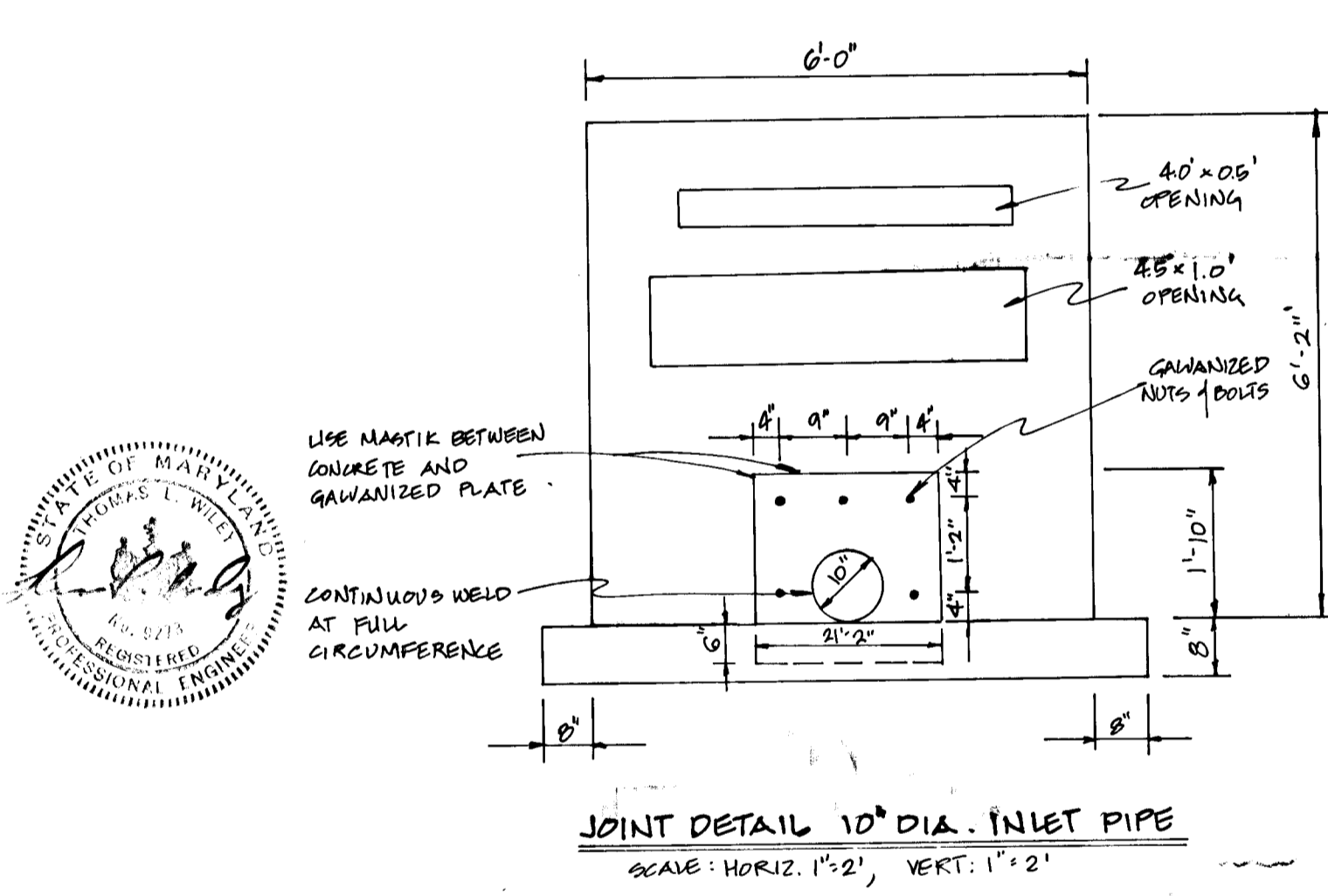
Robert W. Zelman 8/29/89
CITY ENGINEER

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Samuel R. Ryan 9/10/89
CITY ENGINEER

David W. W. W. W. 9/19/89
CITY ENGINEER

W. W. W. W. 9-20-89
CITY ENGINEER

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
W. W. W. W. 2/19/85
CITY ENGINEER



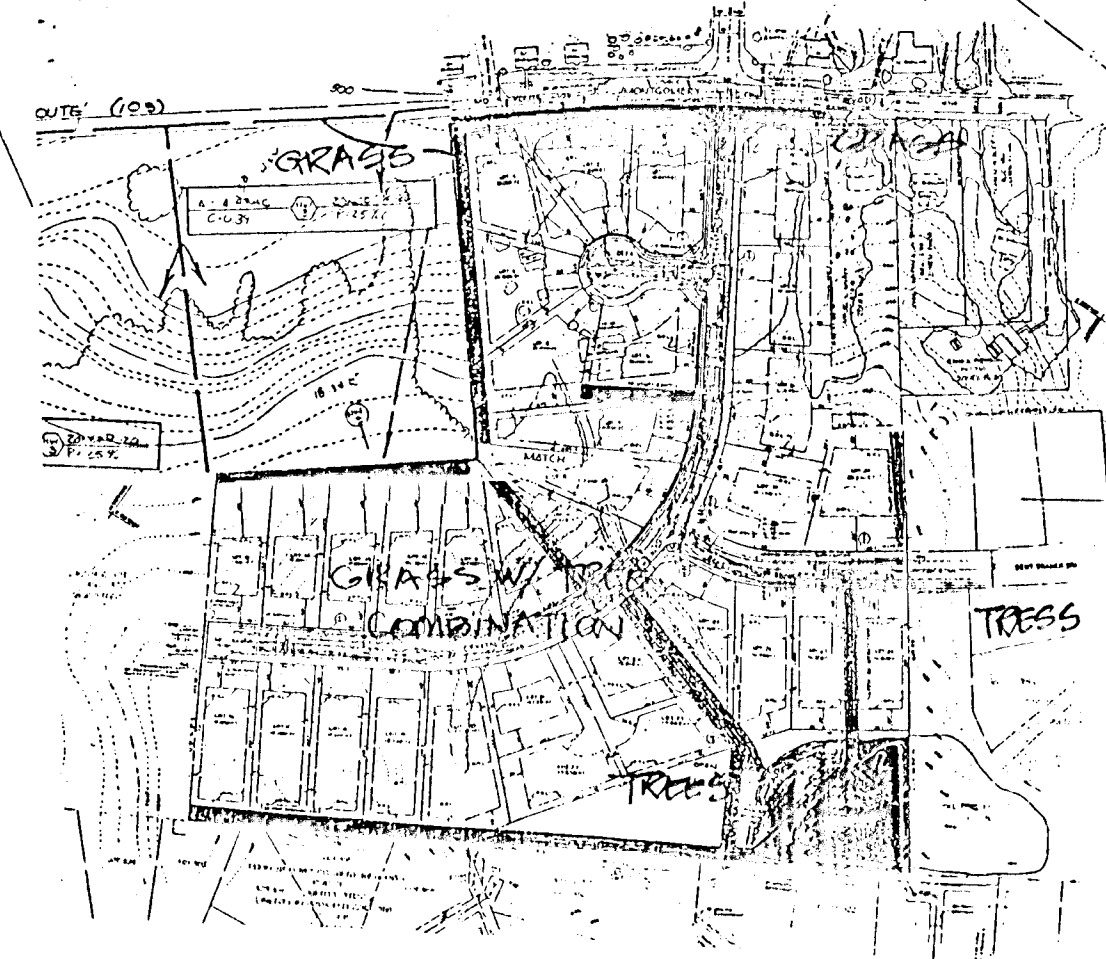
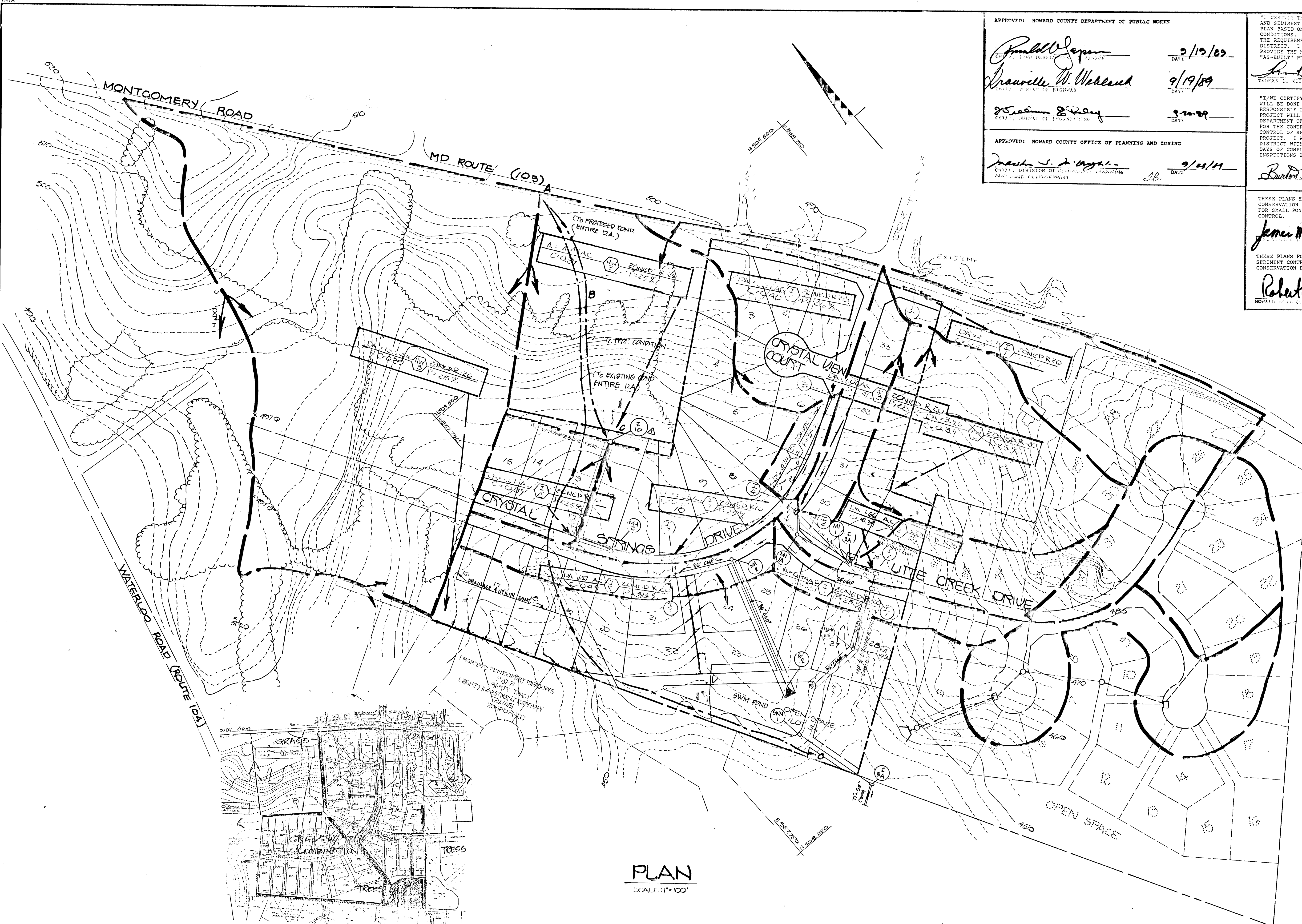
1470

DESIGNED		DATE		BY		DESCRIPTION	
ELUN	6-6-85	11/18/90	WEO	ADD	PROFILES		
DRAWN	WEO	6-6-85	1-15-91	WEO	RAISE STORM DRAIN FROM 24" TO 36"		
CHECKED			10/1/92	GLW	change HW to 14" dia inlet		
APPROVED							

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

BERTON CONSTRUCTION COMPANY
6110 EXECUTIVE BOULEVARD • SUITE 1090
ROCKVILLE, MARYLAND 20852
(301) 770-2450

CRYSTAL SPRINGS ESTATES.
SECTION ONE
TAX MAP 31 PARCEL 175
1ST ELECTION DISTRICT
HOWARD COUNTY, MARYLAND



PLAN
SCALE: 1" = 100'

TOPOGRAPHY SOURCE: HOWARD COUNTY 5' INTERVAL CONTOUR TOPOGRAPHY.

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Donald W. Depp 2/12/89
Franklin W. Wehrand 9/19/89
William E. Ray 9-20-89

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

Franklin W. Wehrand 9/22/89
Burton S. Chausus 2/1/89

"I HEREBY 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."

Burton S. Chausus 2/1/89
 "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 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."

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. Nelson 9/29/89
 THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.
Robert W. Ziehm 8/29/89

DESIGNED	DATE	DATE	BY	DESCRIPTION
F. LIN	6-288	10/1/82	GLW	Change Hw-3 to I-10 (P-Inlet Δ)
DRAWN	W.E. OWENS	6-2-88		
CHECKED				
APPROVED				

DATE	BY	DESCRIPTION
10/1/82	GLW	Change Hw-3 to I-10 (P-Inlet Δ)

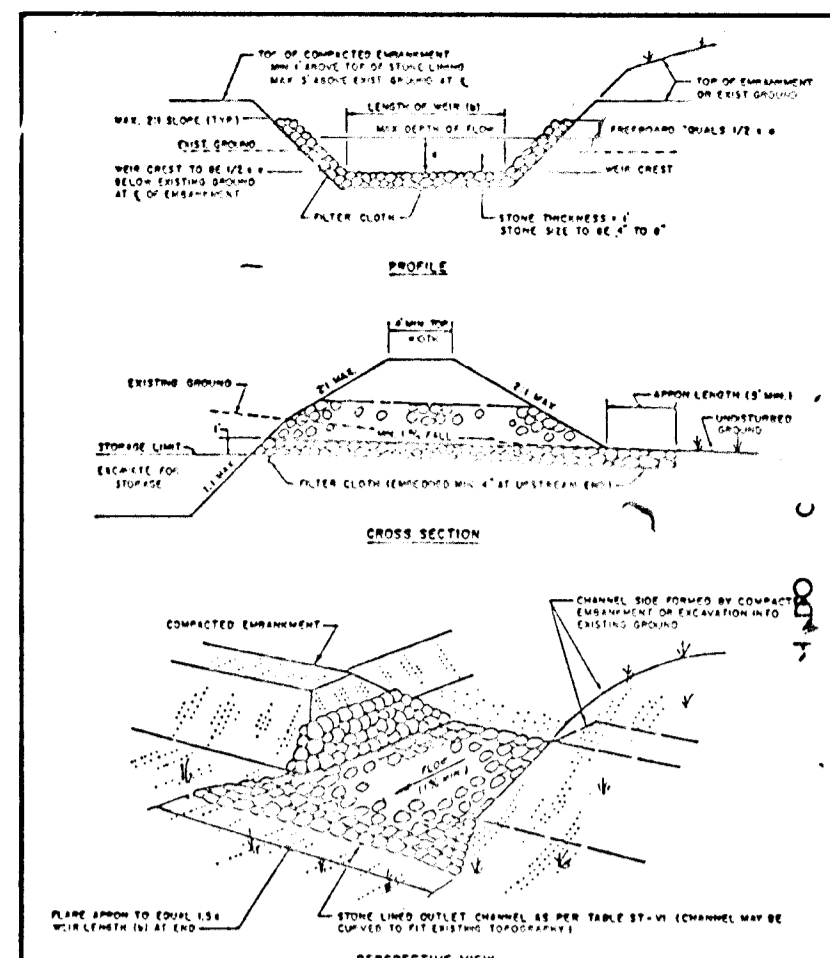
Dewberry & Davis
 ENGINEERS — ARCHITECTS — PLANNERS — SURVEYORS
 3300 N. RIDGE ROAD, SUITE 100
 ELLICOTT CITY, MD. 21043
 (301) 461-7478



OWNER / DEVELOPER
BERTON CONSTRUCTION CO.
 6110 EXECUTIVE BOULEVARD SUITE 1090
 ROCKVILLE, MARYLAND 20852
 (301) 770-2450

LAND USE MAP AND DRAINAGE AREA MAP WITH FLOW PATTERNS
CRYSTAL SPRINGS ESTATES
 SECTION ONE
 TAX MAP 31 PARCEL 175
 1ST ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

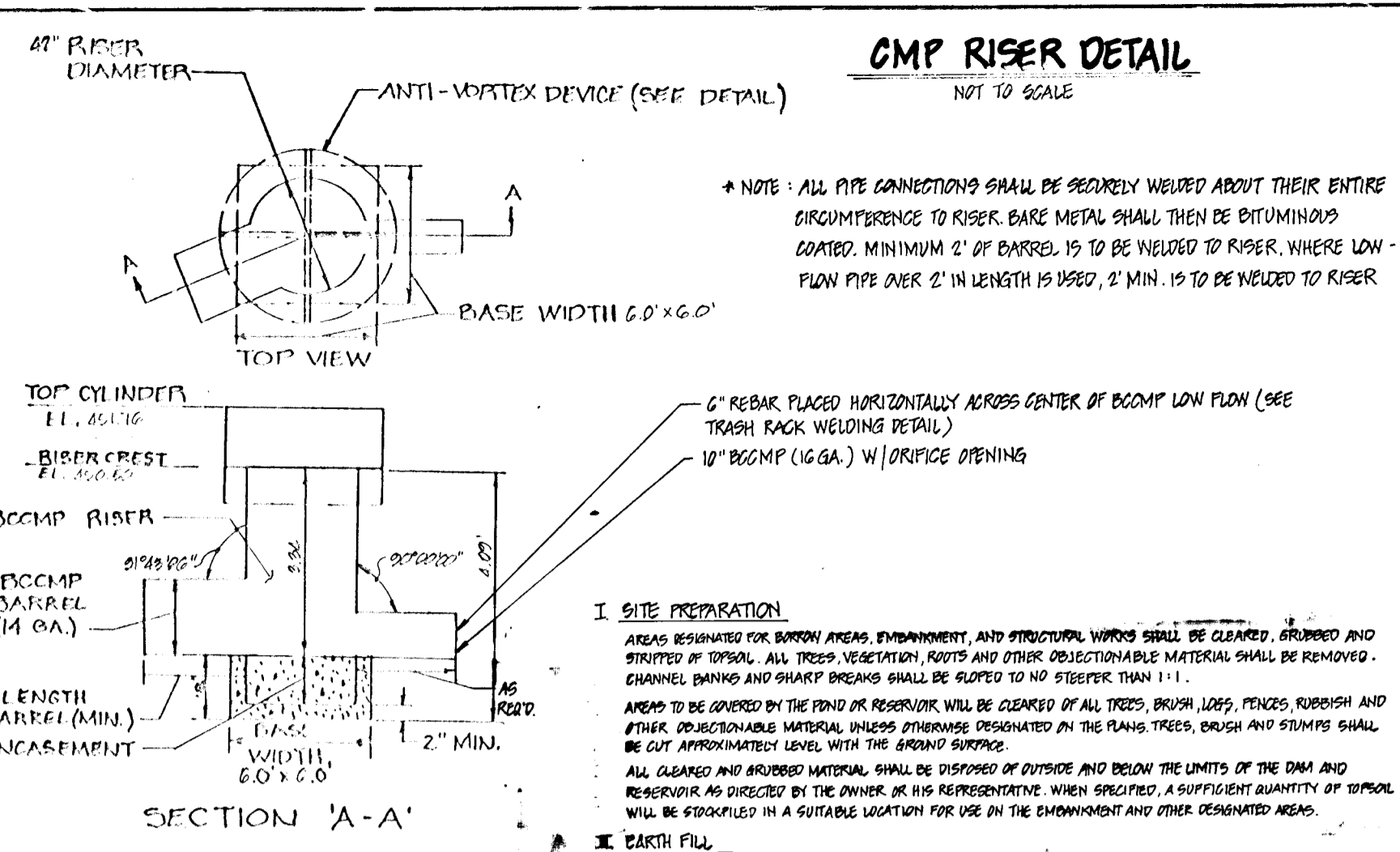
1470



RIPRAP OUTLET SEDIMENT TRAP
NOT TO SCALE

- Sediment Control trap #1**
1. Drainage area to trap: 2.21 Acres
 2. Type of trap: stone outlet trap
 3. Volume required: 152 cy
 4. Volume provided: 154 cy
 5. Trap size: 10' x 10'
 6. Trap depth: 2'-0"
 7. Bottom elev.: 456.00'
 8. Crest elev.: 456.00'
 9. Cleanout elev.: 458.71'
 10. Outlet width: 10'-0"
 11. Side slope: 2:1

- Sediment Control trap #2**
1. Drainage area to trap: 6.80 acres
 2. Type of trap: riprap outlet trap
 3. Volume required: 628 cy
 4. Volume provided: 622 cy
 5. Trap size: 47' x 10'
 6. Trap depth: 8'-0"
 7. Bottom elev.: 448.00'
 8. Crest elev.: 464.30'
 9. Cleanout elev.: 464.30'
 10. Outlet width: 10'-0"
 11. Side slope: 2:1



I. SITE PREPARATION
AREAS RESERVED FOR BORROW AREAS, EMBANKMENT, AND STRUCTURAL WORKS SHALL BE CLEARED, GRUBBED AND STRIPPED OF TOPSOIL. ALL TREE VEGETATION, ROOTS AND OTHER OBSTACLES SHALL BE REMOVED. CHANNEL BANKS AND SHOULDER BENCHES SHALL BE SLOPED TO A GRADE OF 1:1. CHANNELS TO BE GRADED BY THE OWNER OR RESIDENT WILL BE CLEARED OF ALL TREES, BRUSH, LOGS, LIMBS, RUBBISH AND OTHER OBSTACLES. MATERIALS PRESENTED ON THE PLANS, TRUCKS, BRUSH AND LIMBS SHALL BE CUT APPROPRIATELY, WITH SHARP EDGES.

II. EARTH FILL
MATERIALS
THE FILL MATERIAL SHALL BE TAKEN FROM APPROVED DESIGNATED BORROW AREAS OR AREAS IT SHALL BE FREE OF ROOTS, STONES, WOOD, RUBBISH, OVERSIZE STONES, PEZZI OR OTHER OBSTACLES. THE EMBANKMENT SHALL BE CONSTRUCTED TO AN ELEVATION WHICH PROVIDES FOR ANTICIPATED SETTLEMENT TO THE DESIGN ELEVATION. THE FILL HEIGHT SHALL BE IN ACCORDANCE WITH THE DESIGN ELEVATION AND THE DESIGN ELEVATION SHALL BE INCREASED ABOVE THE DESIGN ELEVATION (INCLUDING SETTLEMENT) AS SHOWN ON PLANS.

PLACEMENT
AREAS IN WHICH FILL IS TO BE PLACED SHALL BE SCOURED PRIOR TO PLACEMENT OF FILL. FILL MATERIALS SHALL BE PLACED IN 8" HIGH MAXIMUM THICKNESS (BEFORE COMPACTION) LAYERS WHICH ARE TO BE CONTINUOUS OVER THE ENTIRE LENGTH OF THE FILL. THE MOST PRODS BORROW MATERIAL SHALL BE PLACED IN THE DOWNSTREAM PORTION OF THE EMBANKMENT.

COMPACTION
THE MOVEMENT OF THE MOUND OR EMBANKMENT DURING THE FILL SHALL BE CONTROLLED SO THAT THE ENTIRE SURFACE OF THE FILL SHALL BE TRACED BY THE TRACKS OF THE EQUIPMENT OR COMPACTION SHALL BE MADE BY A MINIMUM OF FOUR CONCRETE TRACKS OF A PROVED TYPE OF VIBRATORY ROLLER. FILL MATERIAL SHALL CONTAIN SUFFICIENT MOISTURE SUCH THAT THE REQUIRED DEGREE OF COMPACTION CAN BE OBTAINED WITH THE EQUIPMENT USED.

WHERE A MINIMUM REQUIRED COVER IS SPECIFIED, A LAYER OF FILL SHALL BE COMPACTION AS NECESSARY TO OBTAIN THAT DENSITY AND IS TO BE CERTIFIED BY THE ENGINEER.

CUTOFF TRENCH
WHERE SPECIFIED, A CUTOFF TRENCH SHALL BE LOCATED ALONG PARALLEL TO THE CENTRALLINE OF THE EMBANKMENT AS SHOWN ON PLANS. THE BOTTOM WIDTH OF THE TRENCH SHALL BE AS SHOWN ON THE DRAWINGS, WITH THE MINIMUM WIDTH BEING 24" AT THE TOP. THE DEPTH SHALL BE AS SHOWN ON THE PLANS. THE SLOPES OF THE TRENCH SHALL BE 1:1 OR FLATTER. THE BACKFILL MATERIAL FOR THE CUTOFF TRENCH SHALL BE THE MOST IMPROVED MATERIAL AVAILABLE AND SHALL BE COMPACTION WITH ROLLERS TO OBTAIN THESE AS COMPACTION DENSITY AND MINIMUM PERMEABILITY.

III. STRUCTURAL BACKFILL
BACKFILL MATERIAL SHALL BE OF THE TYPE AND QUALITY CONFORMING TO THAT SPECIFIED FOR THE ADJOINING FILL MATERIAL. THE FILL SHALL BE PLACED IN HORIZONTAL LAYERS NOT TO EXCEED FOUR INCHES IN THICKNESS AND COMPACTED BY HAND TAMBERS OR OTHER COMPACTION EQUIPMENT. THE MATERIAL USED TO FILL COMPLETELY ALL STRUCTURAL BACKFILL SHALL BE COMPACTED WITH WATERBURY GUNNERS OR OTHER EQUIPMENT AS SPECIFIED. THE BACKFILL SHALL BE ALLOWED TO SETTLE UNDER A LOAD OF 1000 LB PER SQ FT. MEASUREMENTS SHALL BE TAKEN AT A DISTANCE OF 10 FEET FROM THE STRUCTURE UNDER ALL CIRCUMSTANCES. EQUIPMENT TO BE USED OVER ANY PART OF A CONCRETE STRUCTURE OR PIPE UNLESS THESE ARE COMPACTION DENSITY AND MINIMUM PERMEABILITY.

IV. PIPE CONDUITS
A. CORRUGATED METAL PIPE
1. MATERIALS - STEEL PIPE - THIS PIPE AND ITS APPURTENANCES SHALL BE IDENTIFIED AND FULLY IDENTIFIED LISTED AND SHALL CONFORM TO THE REQUIREMENTS OF ASTM SPECIFICATION M-30 TYPE A WITH WATER TIGHT JOINTS. GALVANIZED COATING SHALL BE REMOVED OR OTHERWISE REMOVED SHALL BE REPAIRED WITH COAT APPLIED BY SPRAYING. GALVANIZED COATING SHALL BE REMOVED OR OTHERWISE REMOVED SHALL BE REPAIRED WITH COAT APPLIED BY SPRAYING.

STEEL PIPE WITH PROTECTIVE COATING SHALL HAVE A MINIMUM THICKNESS OF 0.21" (1/8") IN ALL PORTIONS OF THE PIPE. THE FOLLOWING COATINGS ARE COMMERCIALY AVAILABLE: INORGANIC PLASTIC COATING, BLACK OIL, AND BATH APPLIED COATED CORRUGATED STEEL PIPE SHALL MEET THE REQUIREMENTS OF ASTM M-30 AND M-30A. MATERIALS (CALCULATED) SHALL BE IDENTIFIED AND FULLY IDENTIFIED LISTED AND SHALL CONFORM TO THE REQUIREMENTS OF ASTM SPECIFICATION M-30A. THE WATERBURY GUNNERS OR OTHER EQUIPMENT SHALL BE USED TO COMPACTION THE BACKFILL.

MATERIALS - CALCIUM HYDROXIDE - THIS PIPE AND ITS APPURTENANCES SHALL CONFORM TO THE REQUIREMENTS OF ASTM SPECIFICATION M-30A. THE WATERBURY GUNNERS OR OTHER EQUIPMENT SHALL BE USED TO COMPACTION THE BACKFILL.

MATERIALS - ALUMINUM PIPE - THIS PIPE AND ITS APPURTENANCES SHALL CONFORM TO THE REQUIREMENTS OF ASTM SPECIFICATION M-30A. THE WATERBURY GUNNERS OR OTHER EQUIPMENT SHALL BE USED TO COMPACTION THE BACKFILL.

CONNECTIONS - ALL CONNECTIONS WITH PIPE SHALL BE COMPACTION. THE JOINTS SHALL BE IDENTIFIED AND FULLY IDENTIFIED LISTED AND SHALL CONFORM TO THE REQUIREMENTS OF ASTM SPECIFICATION M-30A. THE WATERBURY GUNNERS OR OTHER EQUIPMENT SHALL BE USED TO COMPACTION THE BACKFILL.

2. LAYING PIPE - THE PIPE SHALL BE LAYED WITH INSIDE CORNER PORTION LAYED DOWNSTREAM AND WITH THE LONGITUDINAL LAP AT THE SIDE.

3. BACKFILLING SHALL CONFORM TO STRUCTURAL BACKFILL AS SHOWN ABOVE.

4. OTHER DETAILS (ANTI-SEEP COLLARS, VALVES, ETC.) SHALL BE AS SHOWN ON THE DRAWINGS.

B. REINFORCED CONCRETE PIPE
1. MATERIALS - REINFORCED CONCRETE PIPE SHALL HAVE A NUMBER, GANGET LIGHT AND SERIAL NO. IDENTIFIED WITH SPECIFICATION C-301. AN APPROXIMATE EQUIVALENT IS 18" DIA. SPECIFICATION C-301.

2. LAYING PIPE - THE CONCRETE PIPE SHALL BE LAYED IN A HORIZONTAL POSITION FOR EACH ENTIRE LENGTH. THE JOINTS SHALL BE IDENTIFIED AND FULLY IDENTIFIED LISTED AND SHALL CONFORM TO THE REQUIREMENTS OF ASTM SPECIFICATION C-301. THE WATERBURY GUNNERS OR OTHER EQUIPMENT SHALL BE USED TO COMPACTION THE BACKFILL.

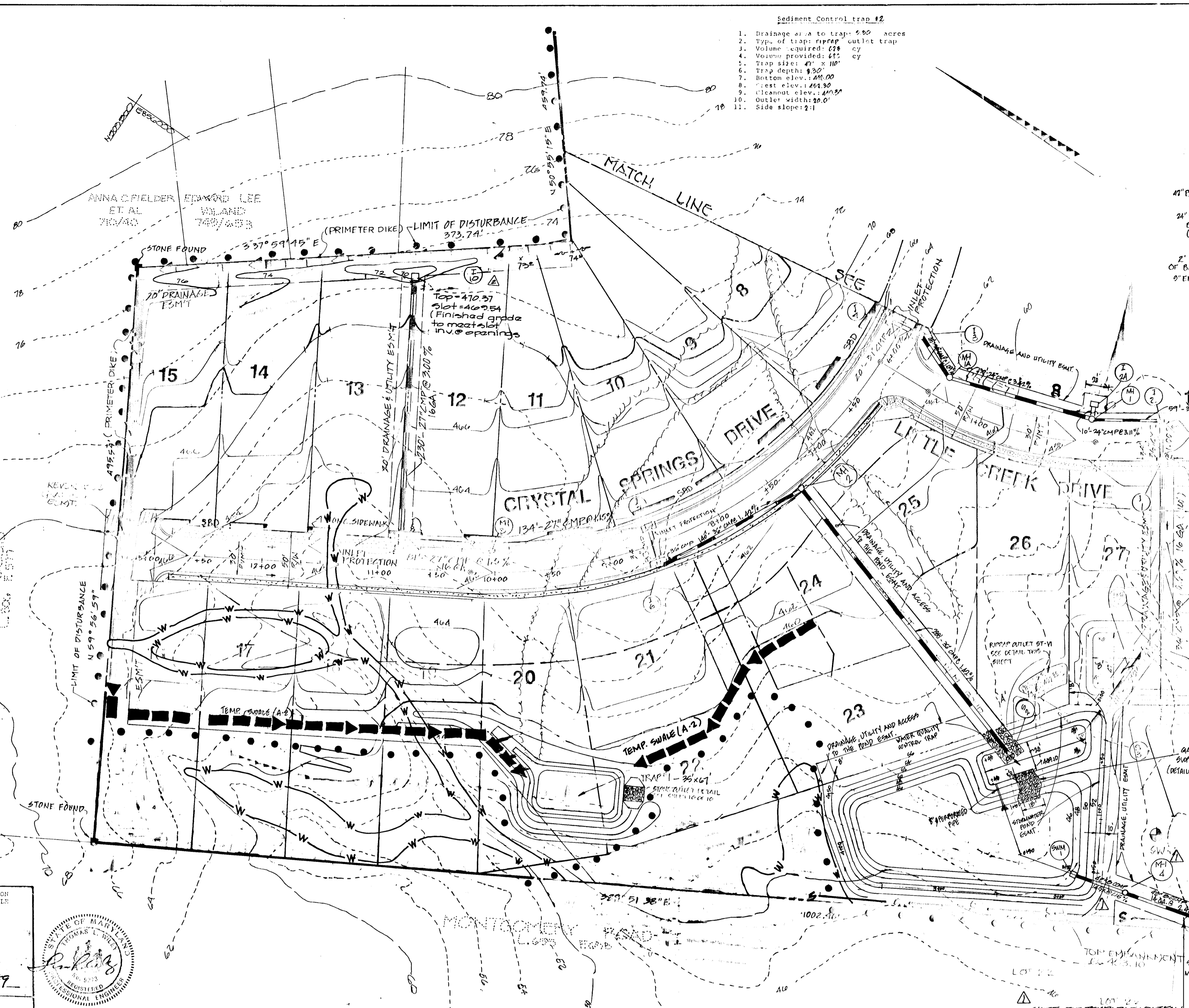
3. LAYING PIPE - THE PIPE SHALL BE LAYED WITH INSIDE CORNER PORTION LAYED DOWNSTREAM AND WITH THE LONGITUDINAL LAP AT THE SIDE.

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.

C. FOR PIPE OF OTHER MATERIALS, SPECIFIC SPECIFICATIONS SHALL BE SHOWN ON THE DRAWINGS.

V. CONCRETE
A. GENERAL - PORTLAND CEMENT SHALL CONFORM TO THE LATEST WITH SPECIFICATION C-150.
B. WATER - THE WATER USED IN CONCRETE SHALL BE CLEAN, FREE FROM OIL, ALKALI, SCALES, ORGANIC MATTER OR OTHER SUBSTANCES WHICH WOULD BE DETRIMENTAL TO THE SETTING OF CONCRETE.
C. SAND - THE SAND USED IN CONCRETE SHALL BE CLEAN, WASHED, FREE FROM OIL, ALKALI, SCALES, ORGANIC MATTER OR OTHER SUBSTANCES WHICH WOULD BE DETRIMENTAL TO THE SETTING OF CONCRETE. THE SAND SHALL BE WASHED WITH 100 PERCENT PASSING A #200 SIEVE. LIMESTONE SAND SHALL NOT BE USED.
D. AGGREGATE - THE AGGREGATE SHALL BE CLEAN, WASHED, FREE FROM OIL, ALKALI, SCALES, ORGANIC MATTER OR OTHER SUBSTANCES WHICH WOULD BE DETRIMENTAL TO THE SETTING OF CONCRETE. THE AGGREGATE SHALL BE WASHED WITH 100 PERCENT PASSING A #200 SIEVE. LIMESTONE AGGREGATE SHALL NOT BE USED.
E. REINFORCING STEEL - THE REINFORCING STEEL SHALL BE IDENTIFIED AND FULLY IDENTIFIED LISTED AND SHALL CONFORM TO THE REQUIREMENTS OF ASTM SPECIFICATION A-618.
F. MIXING - THE CONCRETE INGREDIENTS SHALL BE MIXED IN BATCH MASSES 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 ARE IN THE MIXER. THE MIXER SHALL BE IDENTIFIED AND FULLY IDENTIFIED LISTED AND SHALL CONFORM TO THE REQUIREMENTS OF ASTM SPECIFICATION A-618. THE MIXER SHALL BE IDENTIFIED AND FULLY IDENTIFIED LISTED AND SHALL CONFORM TO THE REQUIREMENTS OF ASTM SPECIFICATION A-618. THE MIXER SHALL BE IDENTIFIED AND FULLY IDENTIFIED LISTED AND SHALL CONFORM TO THE REQUIREMENTS OF ASTM SPECIFICATION A-618.
G. FORMS - THE FORMS SHALL BE IDENTIFIED AND FULLY IDENTIFIED LISTED AND SHALL CONFORM TO THE REQUIREMENTS OF ASTM SPECIFICATION A-618. THE FORMS SHALL BE IDENTIFIED AND FULLY IDENTIFIED LISTED AND SHALL CONFORM TO THE REQUIREMENTS OF ASTM SPECIFICATION A-618. THE FORMS SHALL BE IDENTIFIED AND FULLY IDENTIFIED LISTED AND SHALL CONFORM TO THE REQUIREMENTS OF ASTM SPECIFICATION A-618.
H. CURING - THE CONCRETE SHALL BE CURING WITH WATER. THE CURING SHALL BE IDENTIFIED AND FULLY IDENTIFIED LISTED AND SHALL CONFORM TO THE REQUIREMENTS OF ASTM SPECIFICATION A-618. THE CURING SHALL BE IDENTIFIED AND FULLY IDENTIFIED LISTED AND SHALL CONFORM TO THE REQUIREMENTS OF ASTM SPECIFICATION A-618. THE CURING SHALL BE IDENTIFIED AND FULLY IDENTIFIED LISTED AND SHALL CONFORM TO THE REQUIREMENTS OF ASTM SPECIFICATION A-618.
I. FINISHING - THE CONCRETE SHALL BE FINISHED WITH A FINISHING MACHINE. THE FINISHING SHALL BE IDENTIFIED AND FULLY IDENTIFIED LISTED AND SHALL CONFORM TO THE REQUIREMENTS OF ASTM SPECIFICATION A-618. THE FINISHING SHALL BE IDENTIFIED AND FULLY IDENTIFIED LISTED AND SHALL CONFORM TO THE REQUIREMENTS OF ASTM SPECIFICATION A-618. THE FINISHING SHALL BE IDENTIFIED AND FULLY IDENTIFIED LISTED AND SHALL CONFORM TO THE REQUIREMENTS OF ASTM SPECIFICATION A-618.

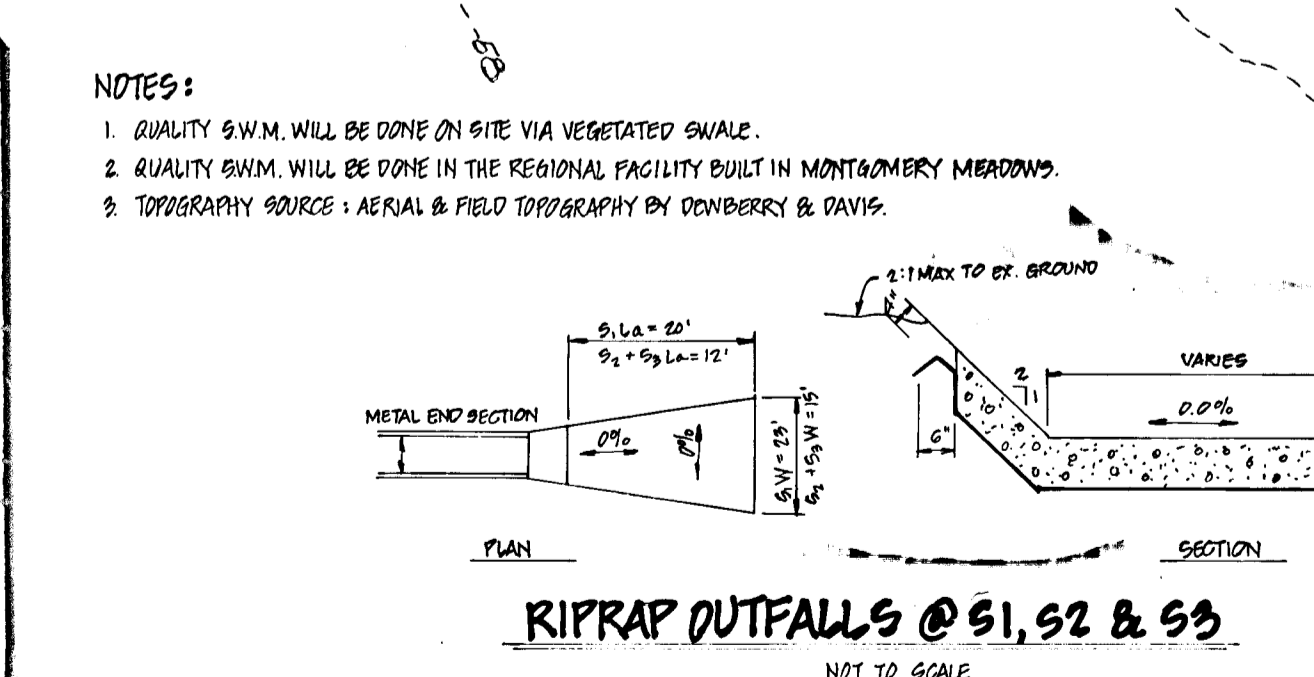


NOTES:

1. QUALITY SWM WILL BE DONE ON SITE VIA VEGETATED SWALE.
2. QUALITY SWM WILL BE DONE IN THE REGIONAL FACILITY DUMP IN MONTGOMERY MEADOWS.
3. TOPOGRAPHY SOURCE: AERIAL & FIELD TOPOGRAPHY BY DUNN & DAVIS.

VI. STABILIZATION
ALL BORROW AREAS SHALL BE GRADED TO PROVIDE PROPER DRAINAGE AND LEFT IN A STABLE CONDITION. ALL EXPOSED SURFACES OF THE EMBANKMENT, SPILLWAY, WEIR AND BORROW AREAS, AND DRENCHES SHALL BE STABILIZED BY SEEDING, LIMING, PERMITTING AND MULCHING (IF RECOMMENDED) ACCORDING WITH THE PREVENTIVE TREATMENT SPECIFICATIONS AS SHOWN ON THE DRAWINGS.

VII. EROSION AND SEDIMENT CONTROL
CONSTRUCTION OPERATIONS WILL BE CARRIED OUT IN SUCH A MANNER THAT EROSION WILL BE CONTROLLED AND WATER AND AIR POLLUTION MINIMIZED. STATE AND LOCAL LAWS CONCERNING POLLUTION ABATEMENT WILL BE FOLLOWED. CONSTRUCTION PLANS SHALL DETAIL EROSION AND SEDIMENT CONTROL MEASURES TO BE EMPLOYED DURING THE CONSTRUCTION PERIOD.



RIPRAP OUTFALLS @ 51, 52 & 53
NOT TO SCALE

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

OWNER / DEVELOPER
BURTON CONSTRUCTION COMPANY
6110 EXECUTIVE BOULEVARD • SUITE 1090
ROCKVILLE, MARYLAND 20852
(301) 770-2450

CRYSTAL SPRING ESTATES
SECTION ONE
TAX MAP 31 PARCEL 175
1ST ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

STATE OF MARYLAND
DEPARTMENT OF PUBLIC WORKS
REGISTERED PROFESSIONAL ENGINEER

APPROVED HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
2/19/89

APPROVED HOWARD COUNTY OFFICE OF PLANNING AND ZONING
2/25/89

DESIGNED F. LIN
DATE 10/18/88
BY WEO
DESCRIPTION ADD MH 4 & TEMP OUTFALL NOTE

DRAWN WEO
DATE 10/11/88
BY GLW
DESCRIPTION CHANGE HWS TO 110 (0" INLET)

CHECKED [Signature]
DATE [Date]

APPROVED [Signature]
DATE [Date]

DESIGNED F. LIN
DATE 10/18/88
BY WEO
DESCRIPTION ADD MH 4 & TEMP OUTFALL NOTE

DRAWN WEO
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CHECKED [Signature]
DATE [Date]

APPROVED [Signature]
DATE [Date]

1470

1-8-89

APPLY TO GRADED OR CLEARED AREA NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG-LIVED VEGETATIVE COVER IS NEEDED.

- 1) PREFERRED - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS/1000 SQ.FT.) AND 600 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ.FT.) BEFORE SEEDING.

SEEDING: FOR PERIODS MARCH 1 THRU APRIL 30, AND AUGUST 1 THRU OCTOBER 15, SEED WITH 40 LBS PER ACRE (1.4 LBS/1000 SQ.FT.) OF KENTUCKY 31 TALL FESCUE.

SEEDING: FOR PERIODS MARCH 1 THRU APRIL 30 AND FROM AUGUST 1 THRU NOVEMBER 15, SEED WITH 20 BUSHEL PER ACRE OF ANNUAL RYE (3.2 LBS/1000 SQ.FT.).

- 1) A MINIMUM OF 24 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY OFFICE OF INSPECTIONS AND PERMITS PRIOR TO THE START OF ANY CONSTRUCTION (992-2437).

SEEDING: FOR PERIODS MARCH 1 THRU APRIL 30 AND FROM AUGUST 1 THRU NOVEMBER 15, SEED WITH 20 BUSHEL PER ACRE OF ANNUAL RYE (3.2 LBS/1000 SQ.FT.).

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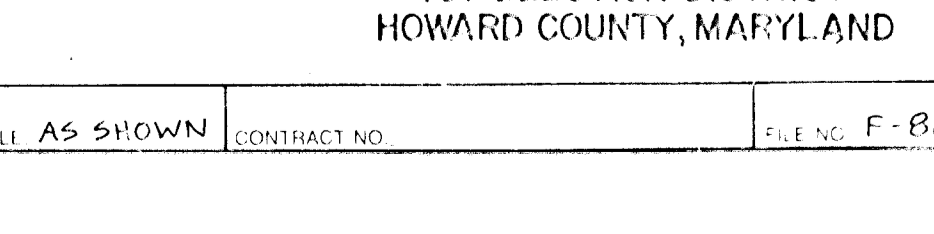
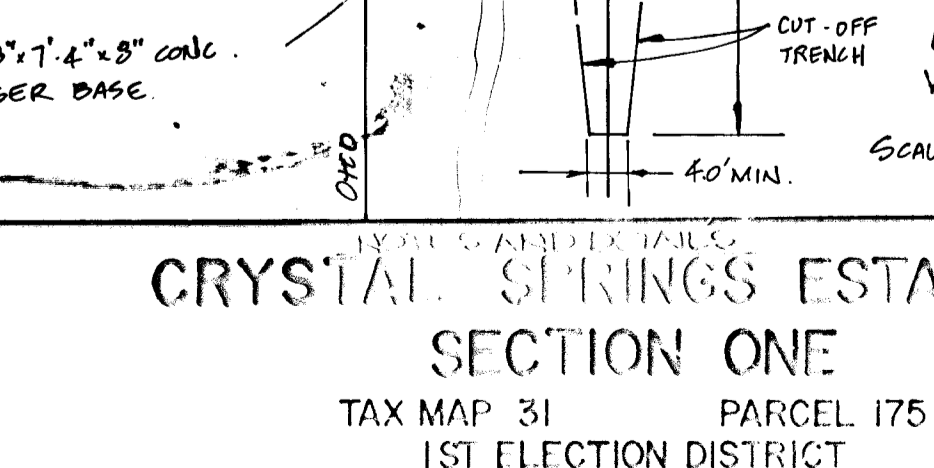
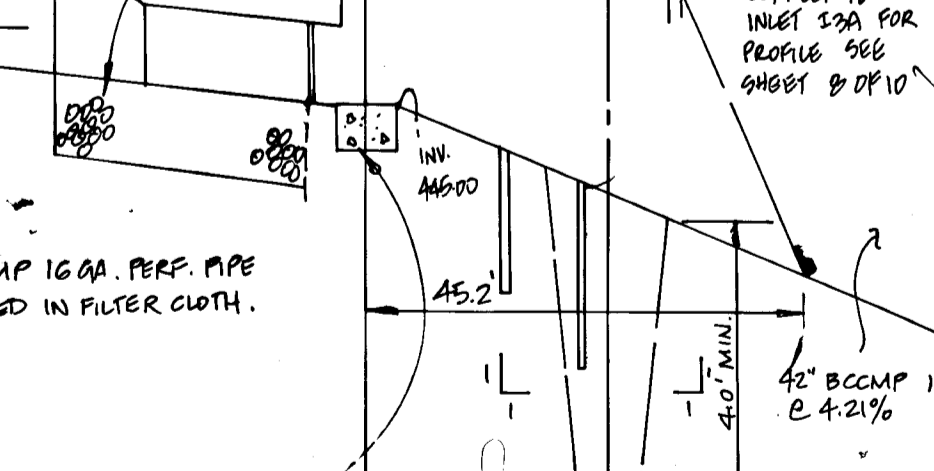
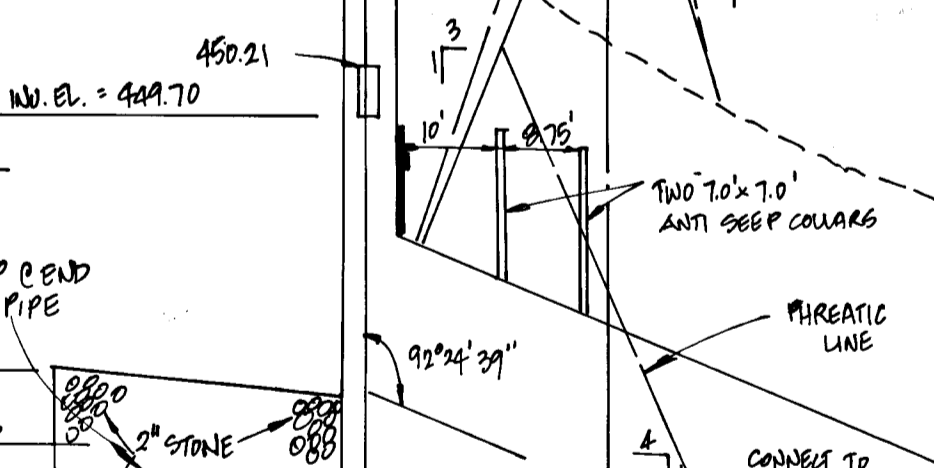
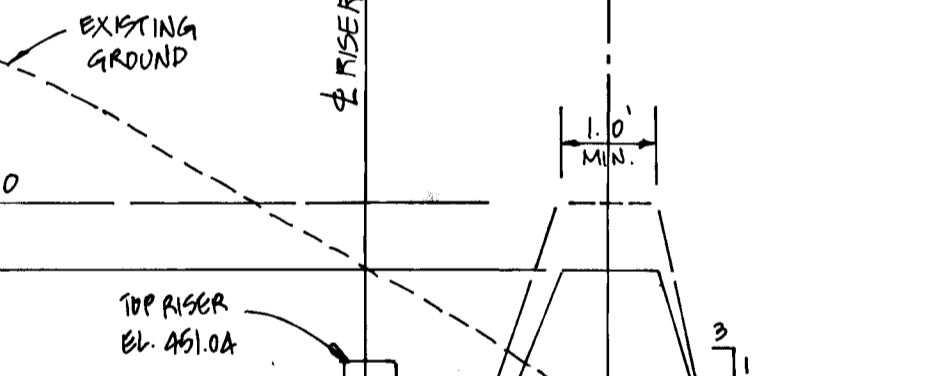
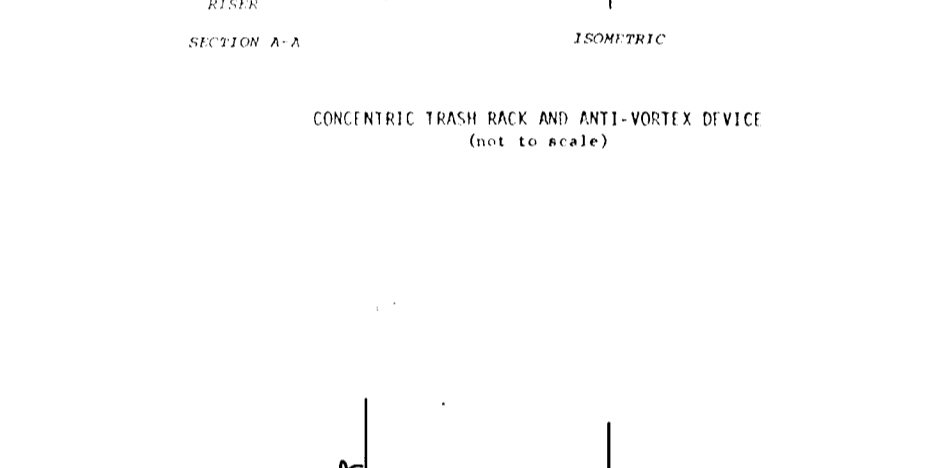
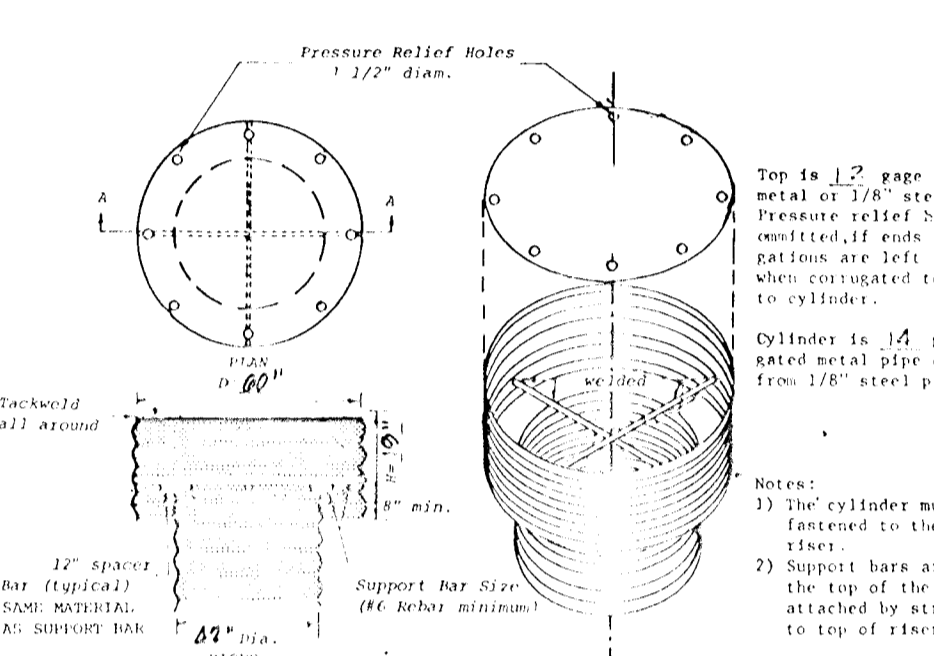
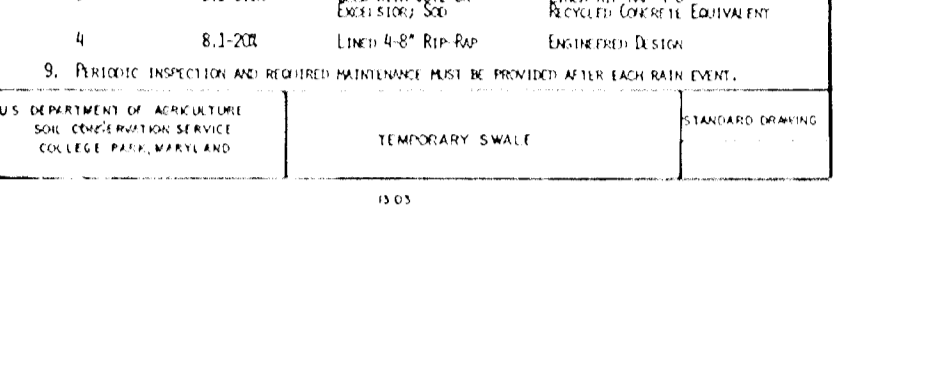
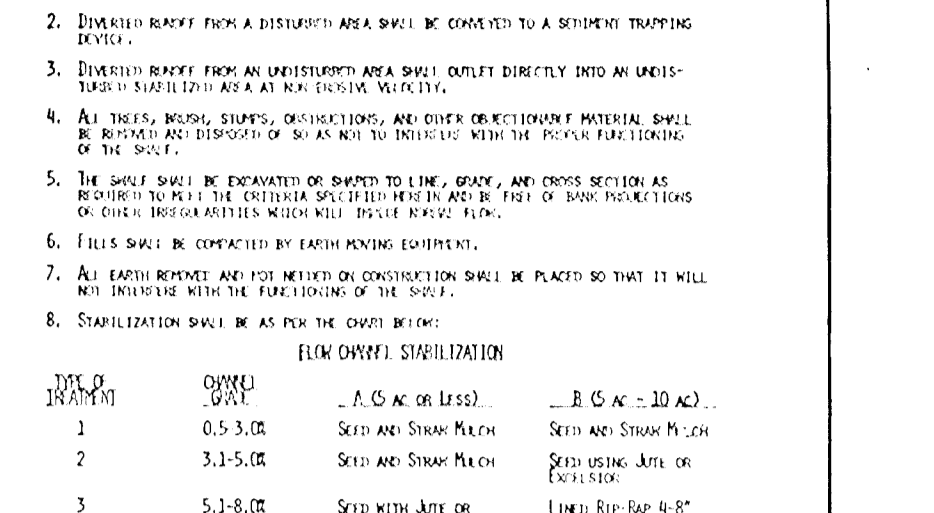
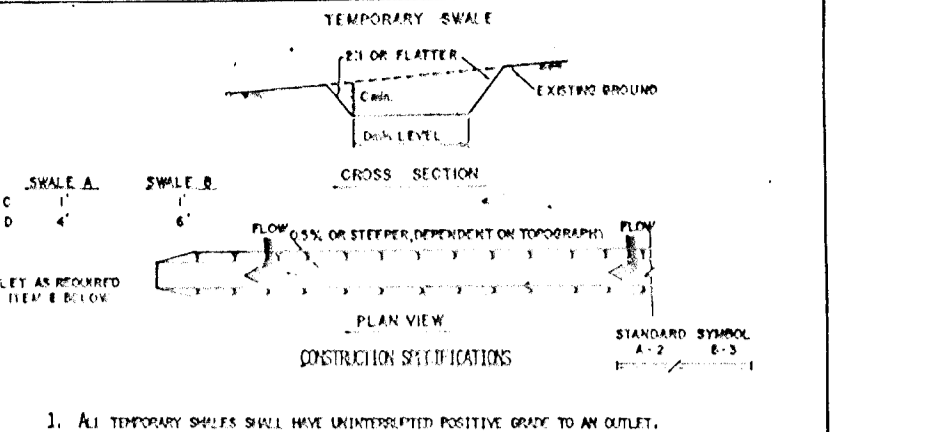
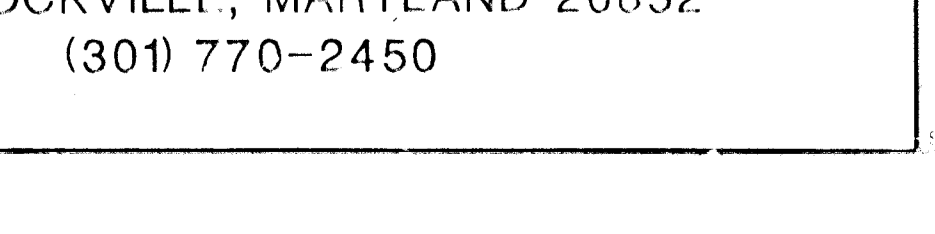
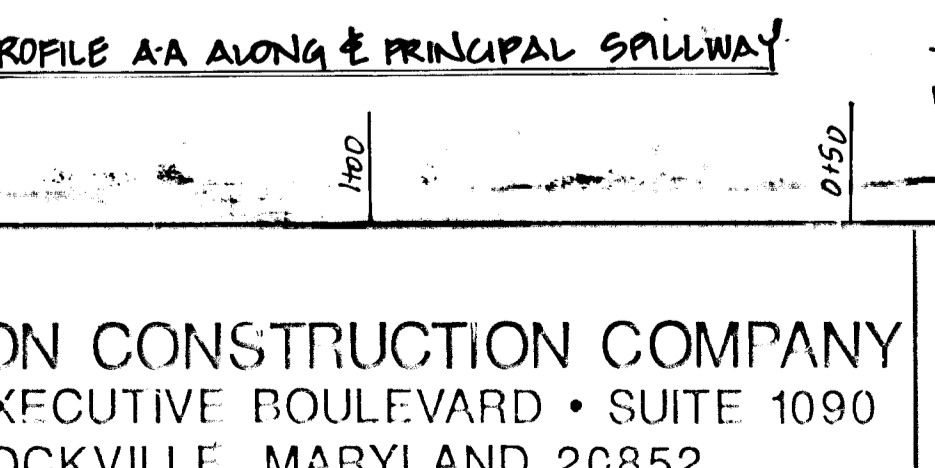
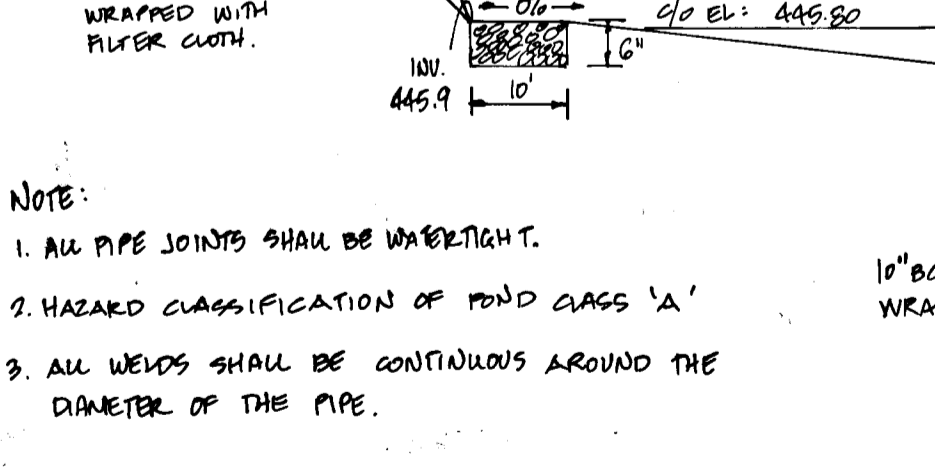
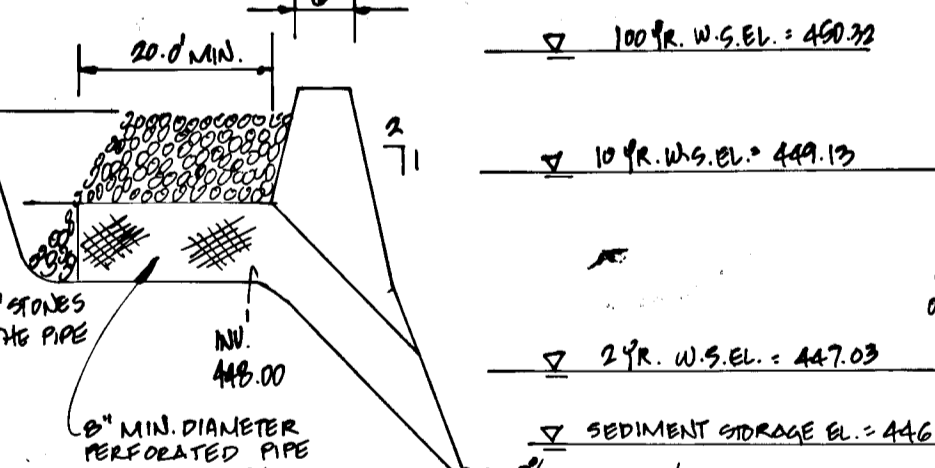
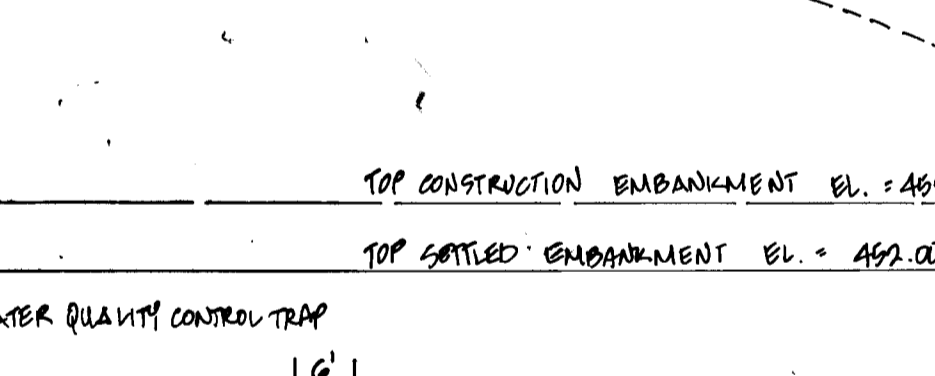
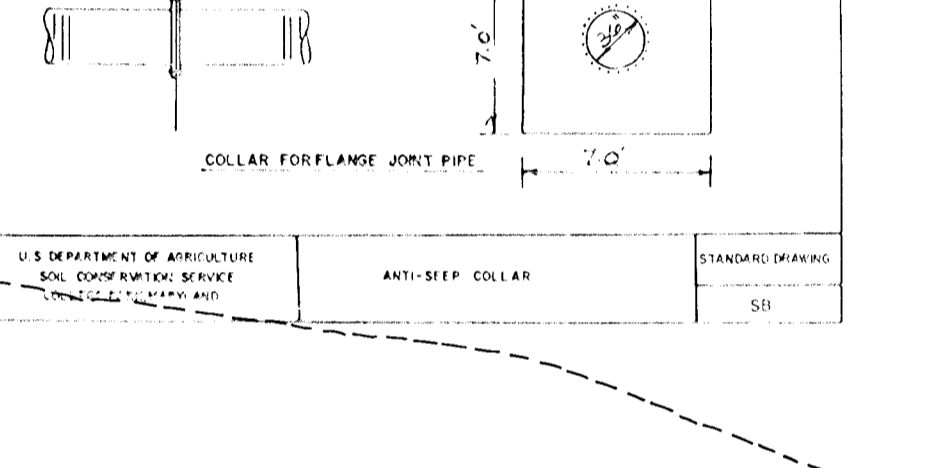
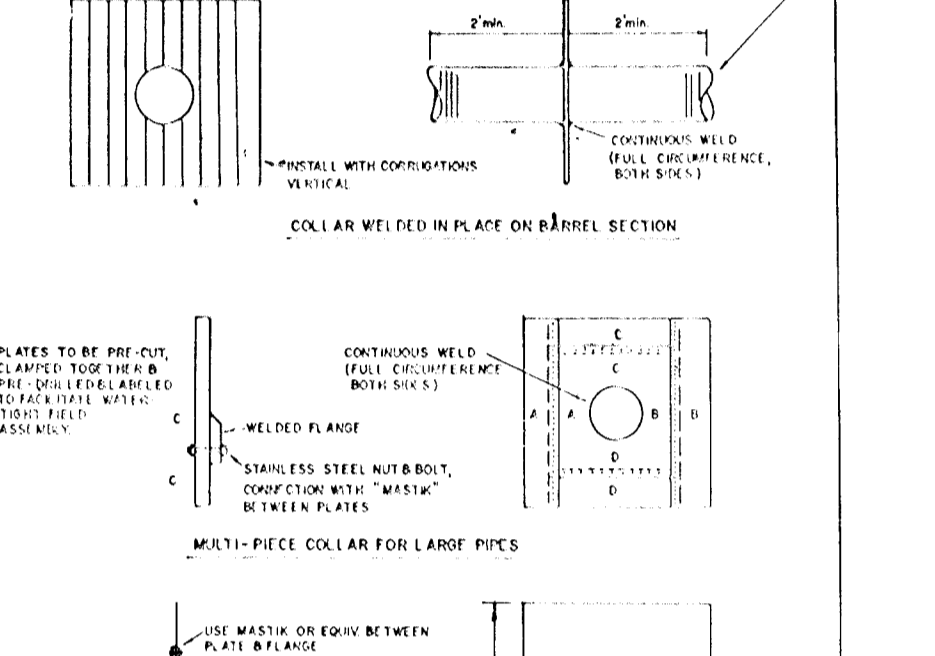
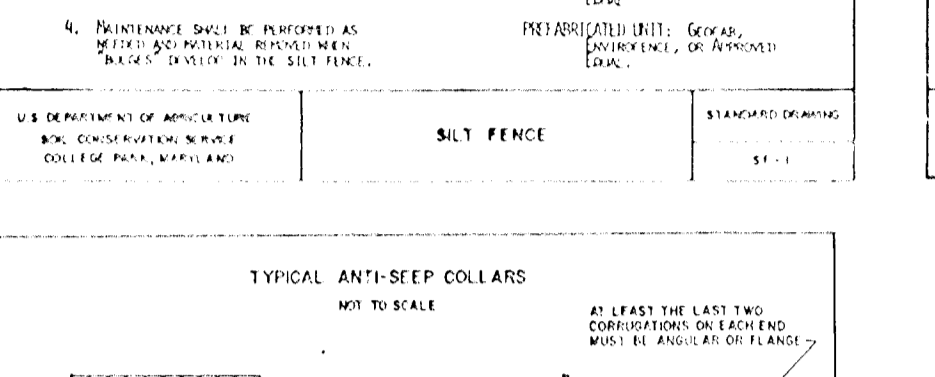
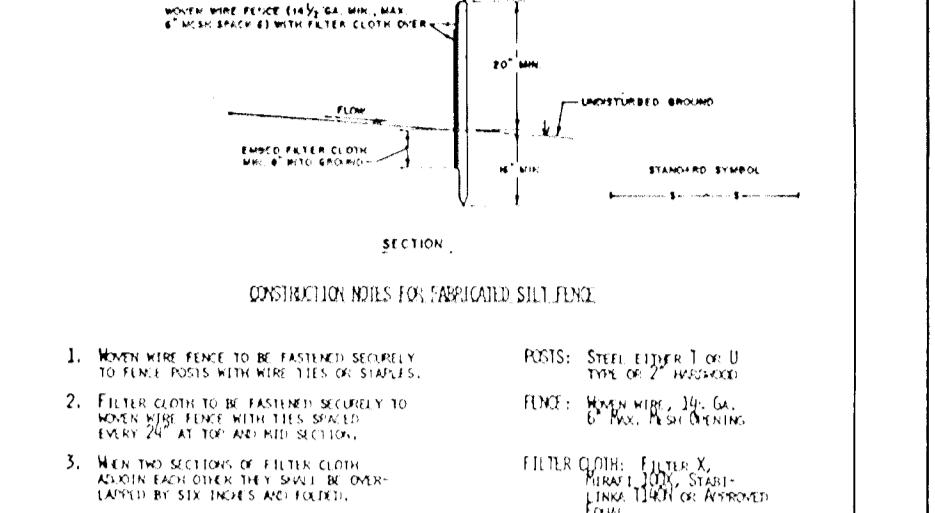
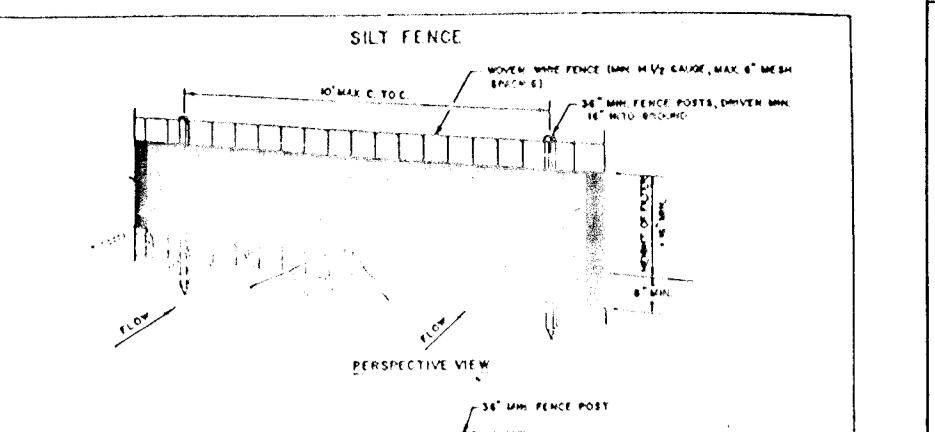
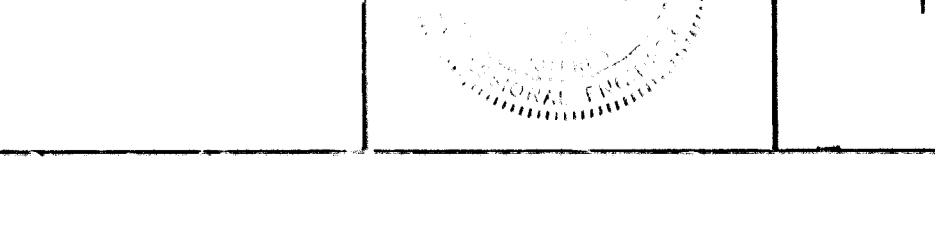
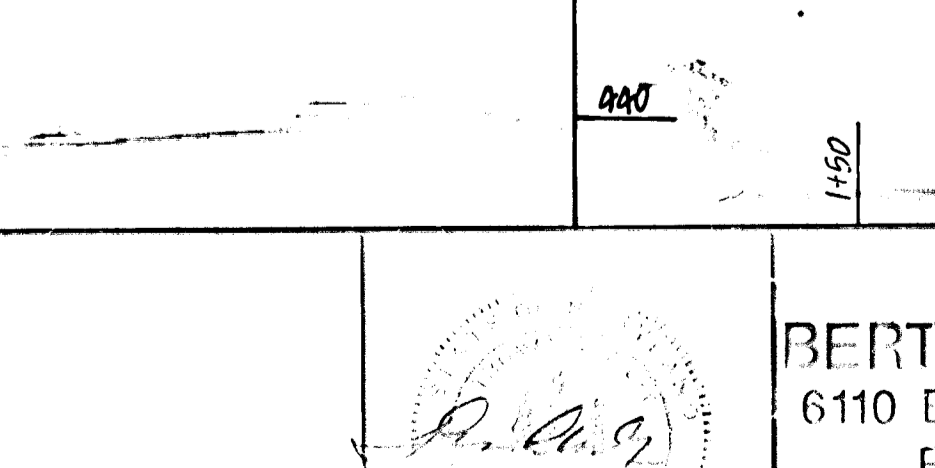
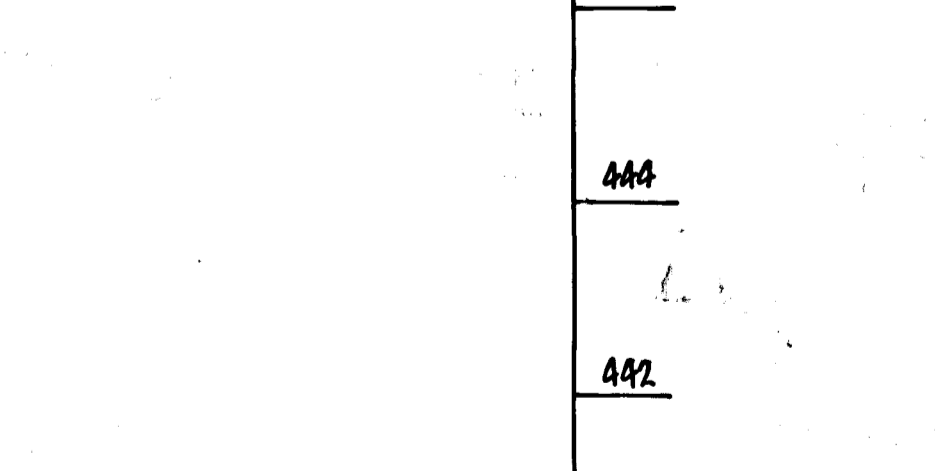
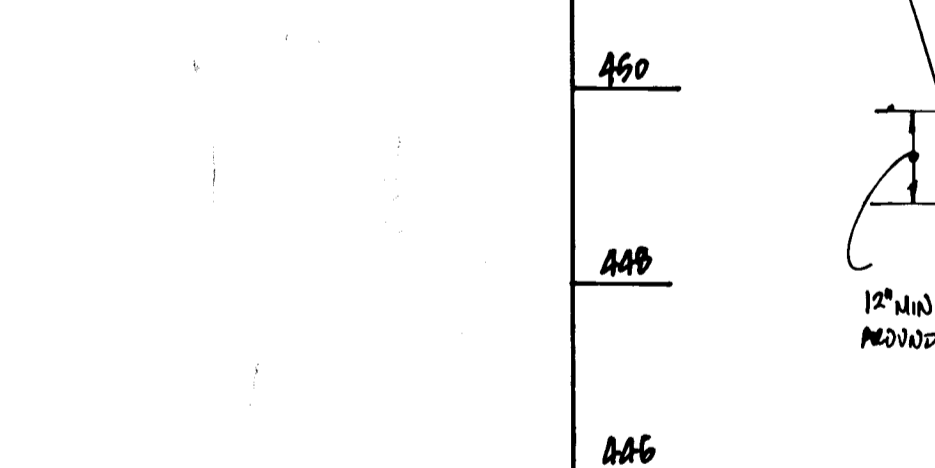
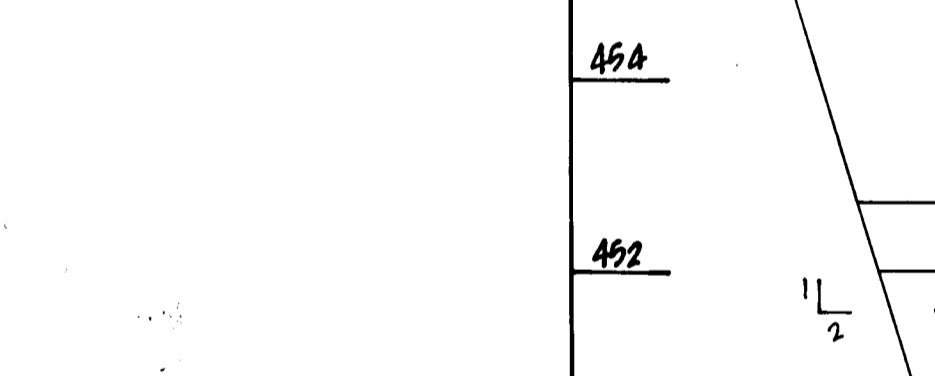
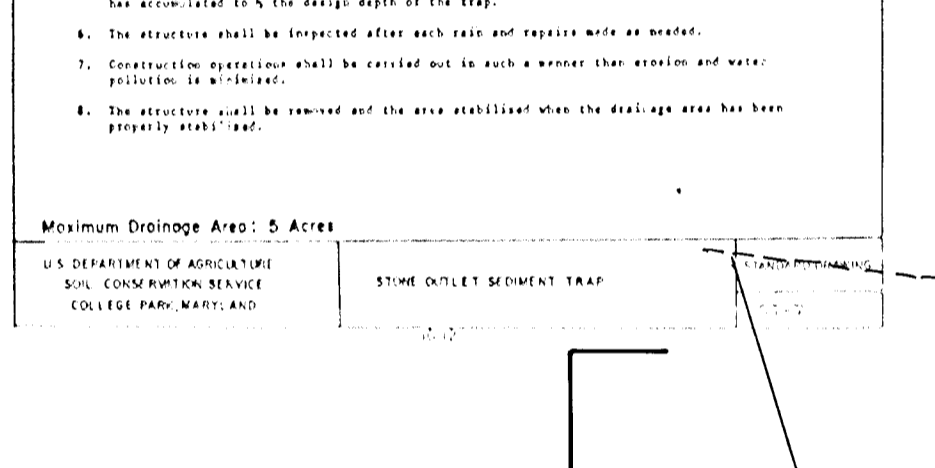
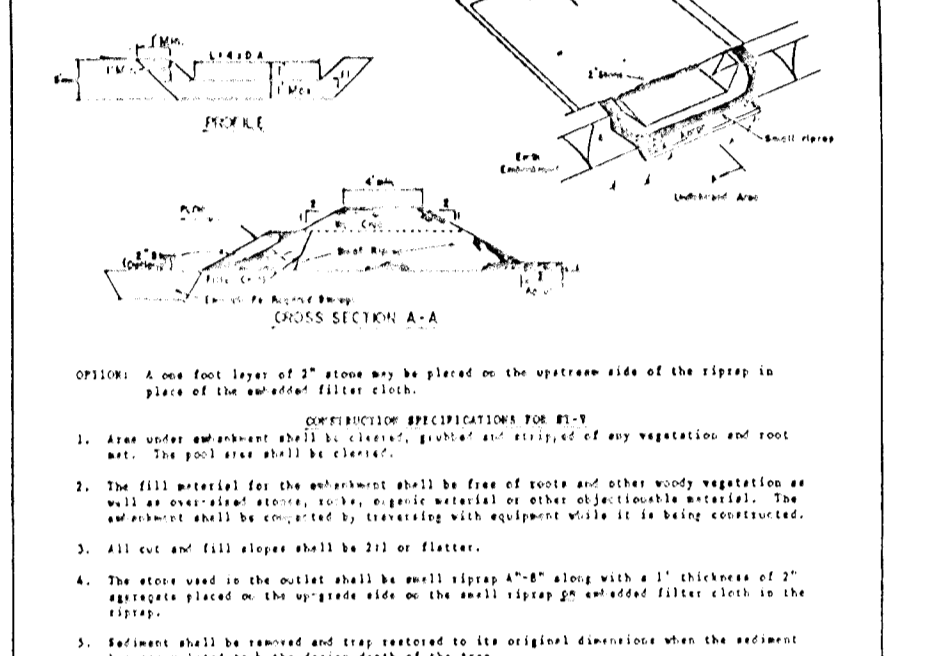
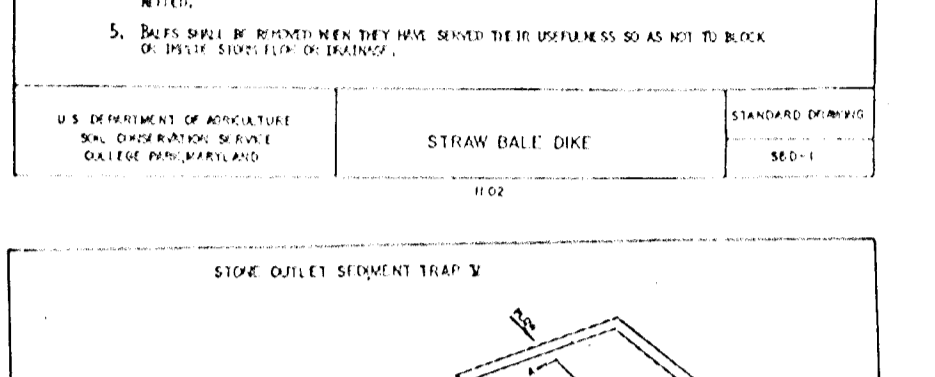
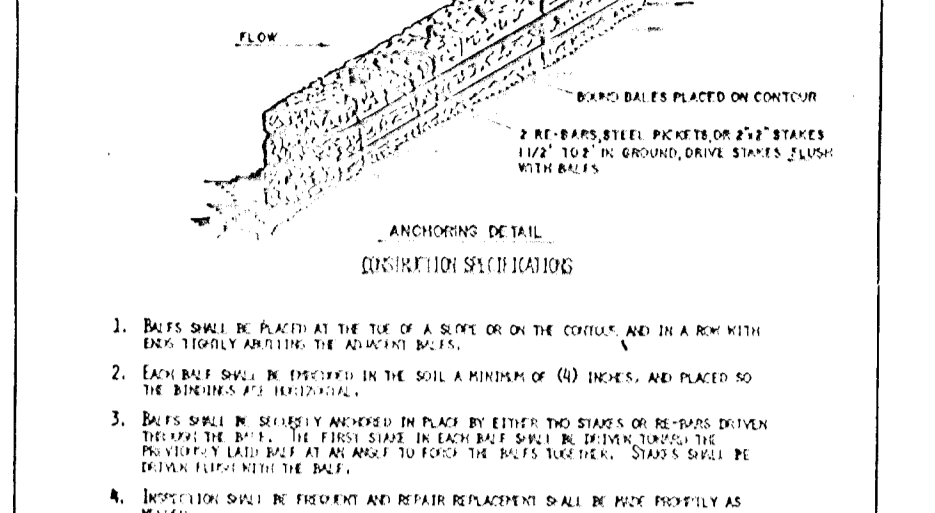
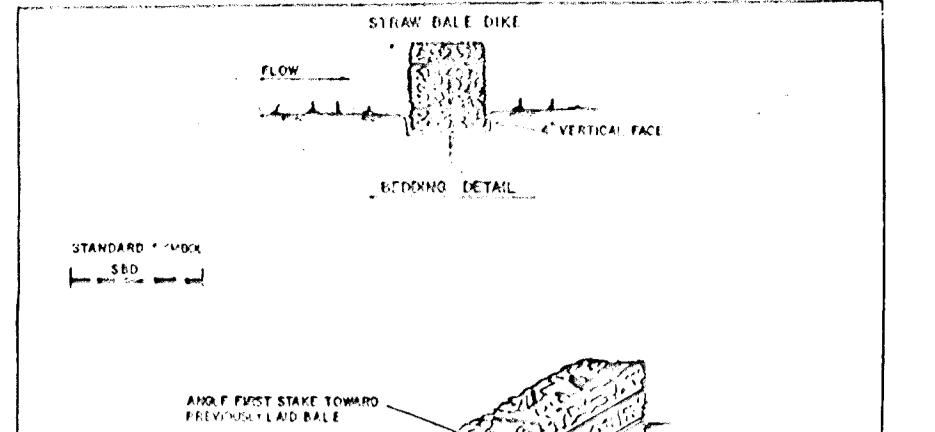
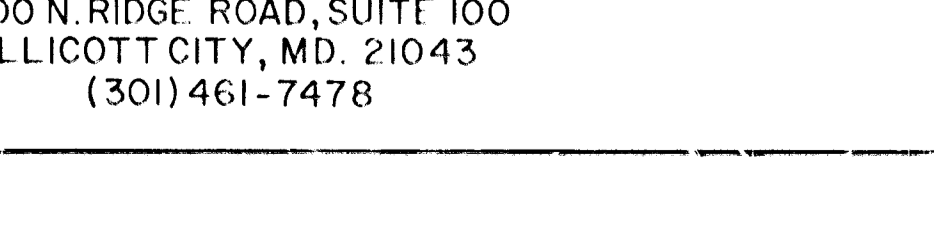
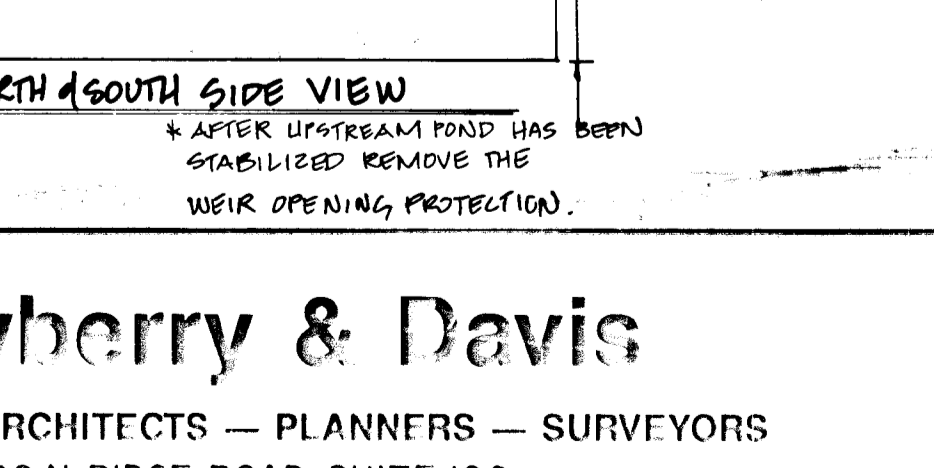
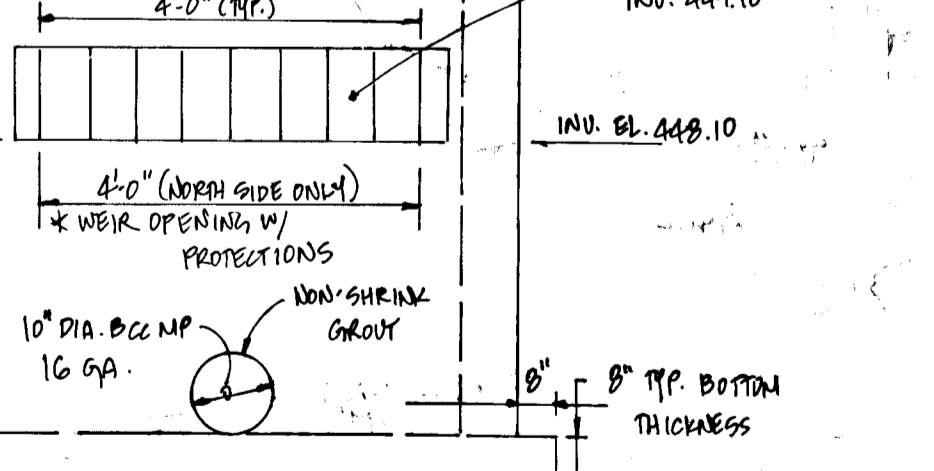
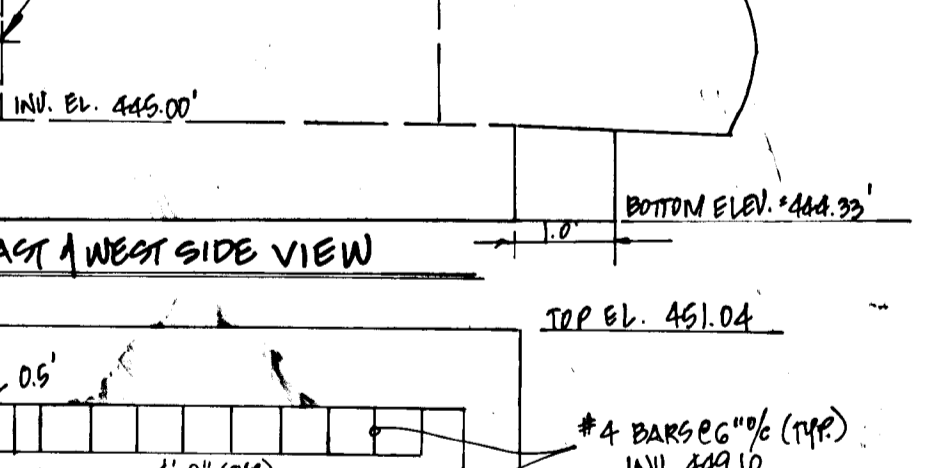
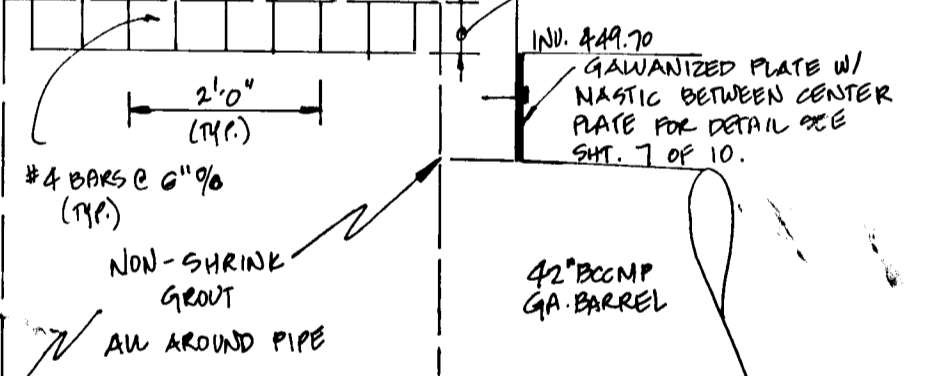
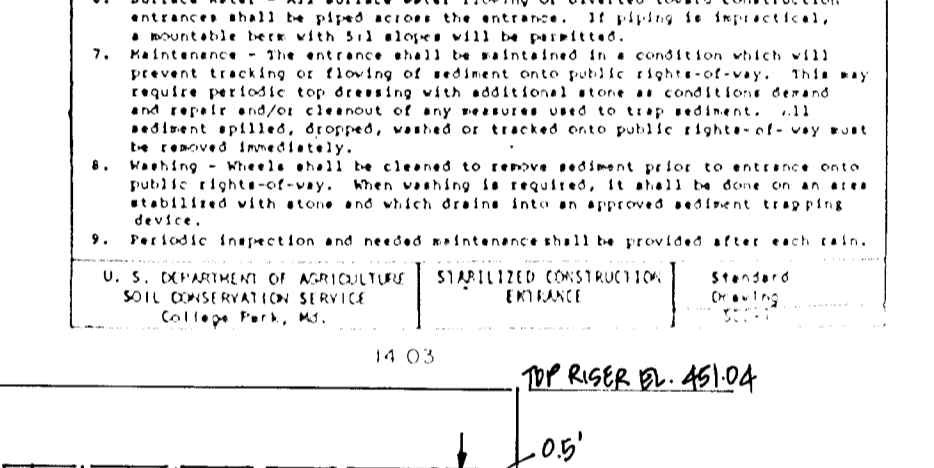
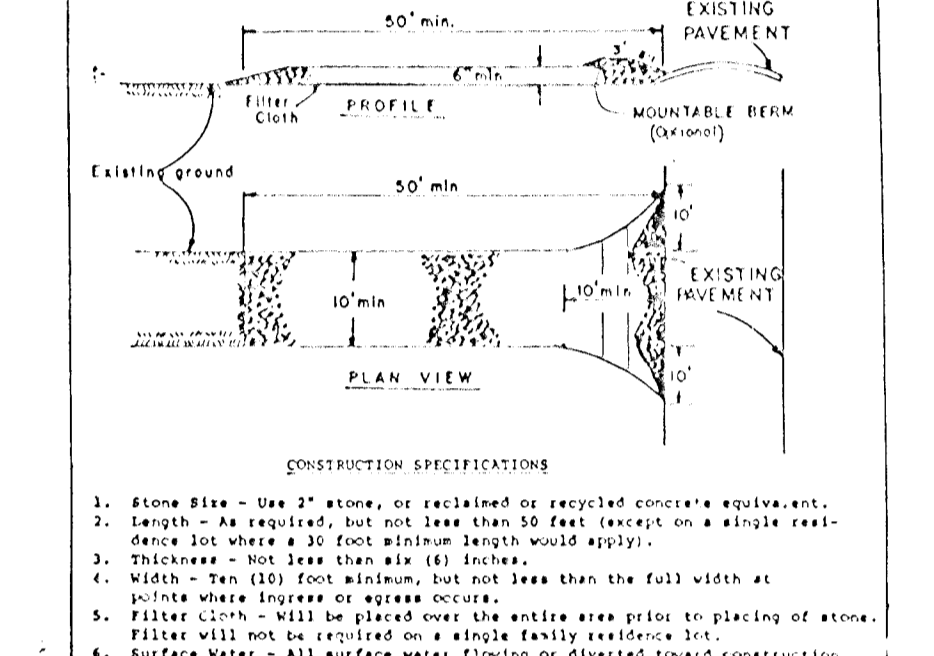
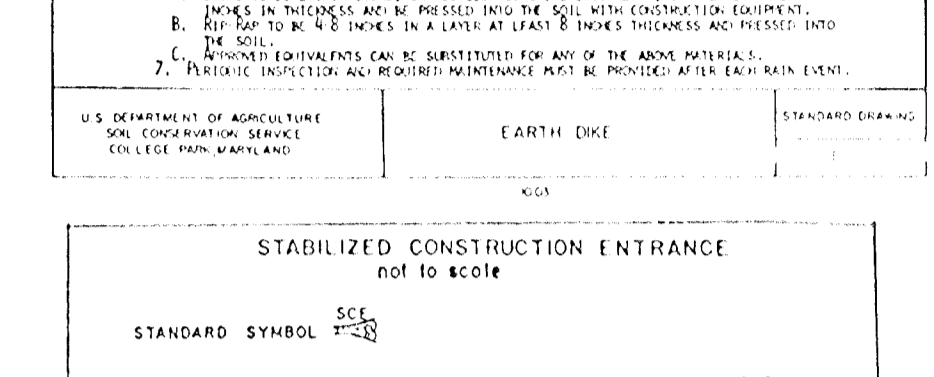
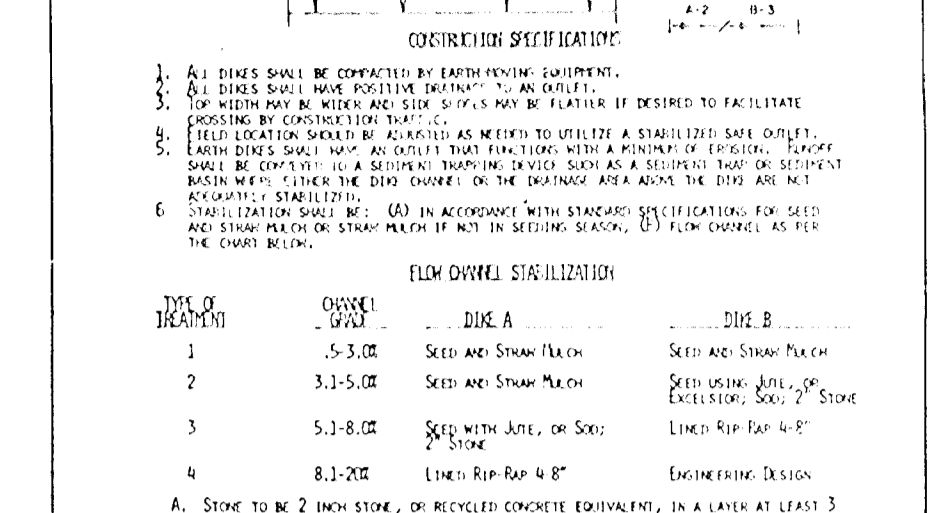
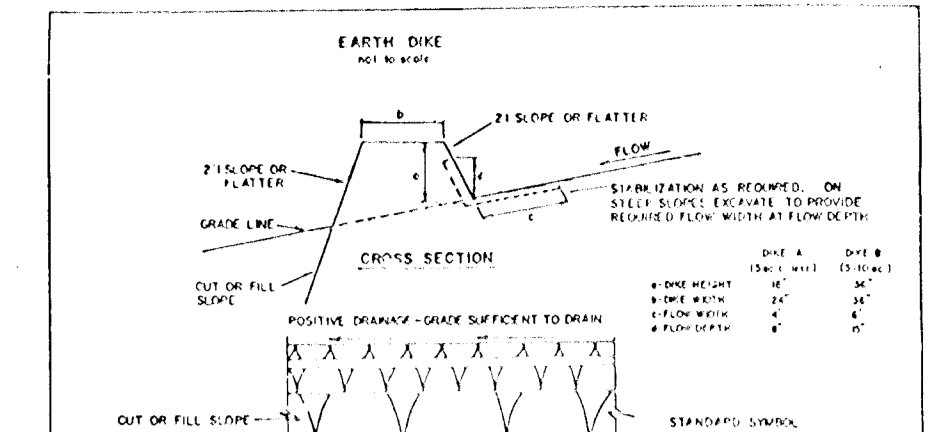
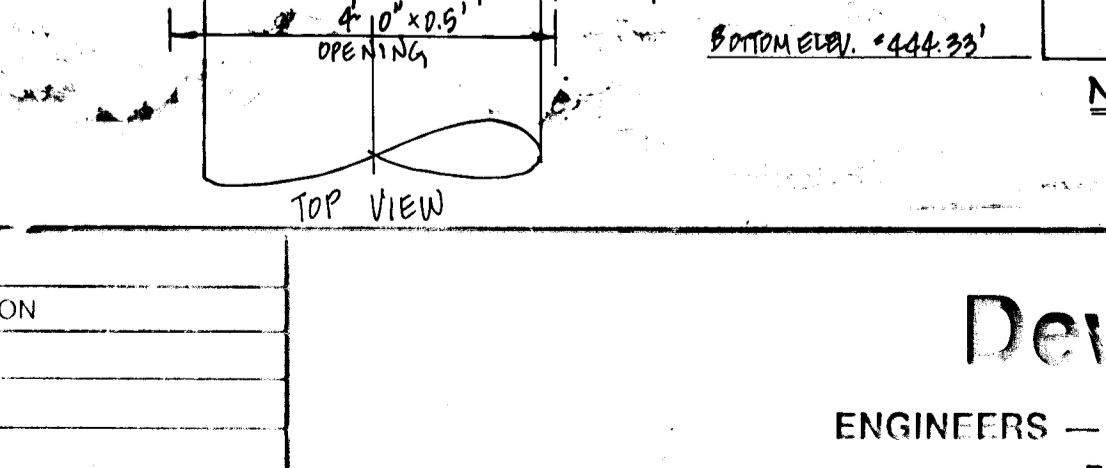
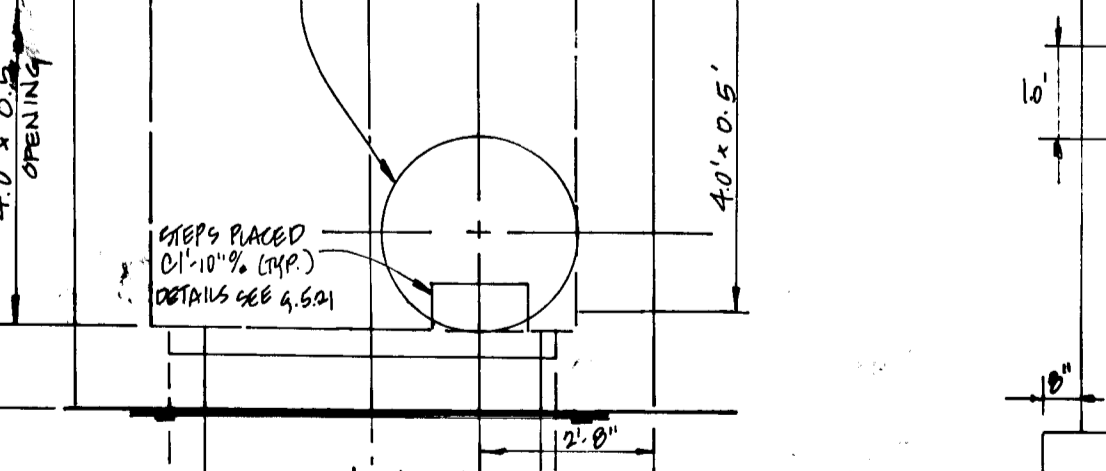
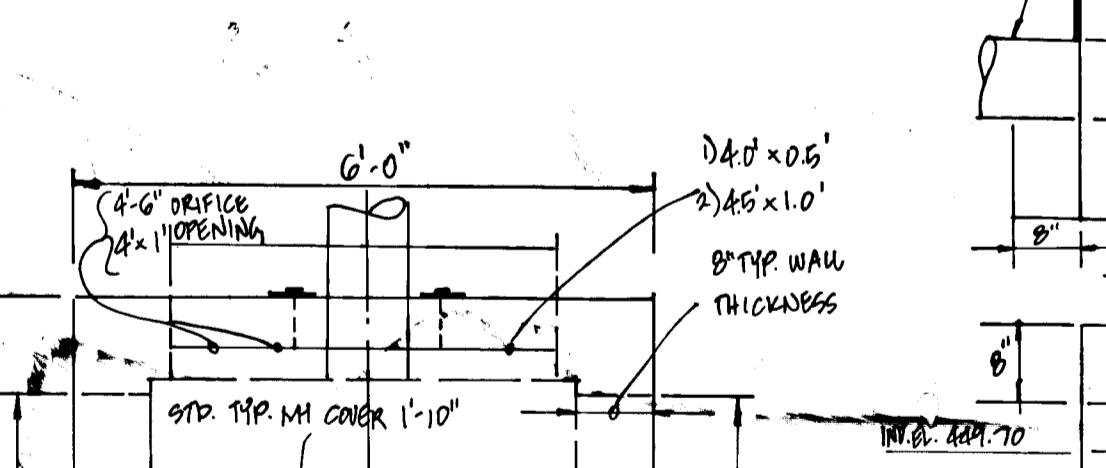
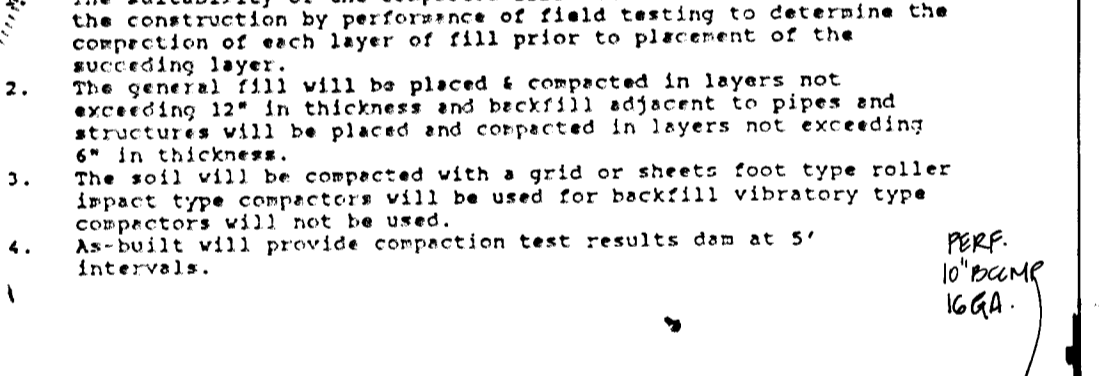
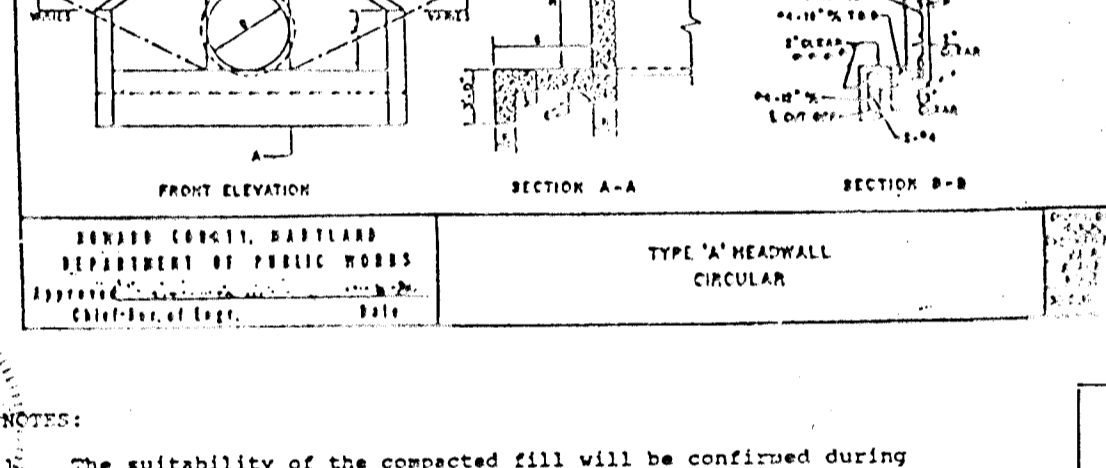
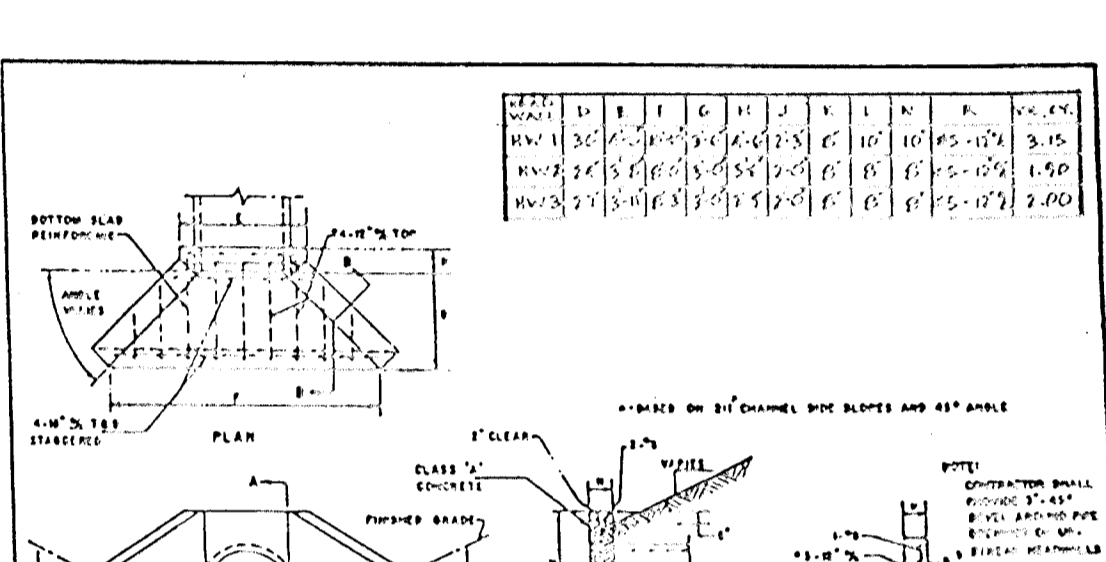
SEEDING: FOR PERIODS MARCH 1 THRU APRIL 30 AND FROM AUGUST 1 THRU NOVEMBER 15, SEED WITH 20 BUSHEL PER ACRE OF ANNUAL RYE (3.2 LBS/1000 SQ.FT.).

Table with 2 columns: SITE ANALYSIS, TOTAL AREA OF SITE. Values include 18.00 ACRES, 14.00 ACRES, etc.

- 1. OBTAIN GRADING PERMIT. 2. INSTALL STABILIZED CONSTRUCTION ENTRANCE, EARTH DIKES, SILT FENCE, TEMPORARY SLOPE, SEDIMENT TRAP, AND EROSION CONTROL STRUCTURES.

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Dewberry & Davis ENGINEERS - ARCHITECTS - PLANNERS - SURVEYORS

BERTON CONSTRUCTION COMPANY 6110 EXECUTIVE BOULEVARD • SUITE 1090 ROCKVILLE, MARYLAND 20852 (301) 770-2450

CRYSTAL SPRINGS ESTATES SECTION ONE TAX MAP 31 PARCEL 175 1ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND