

MAPLE FOREST

SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND

SECTIONS ONE AND TWO

APPROVED
DEPARTMENT OF PUBLIC WORKS
W. Lee E. Day 10-13-88
CHIEF, BUREAU OF ENGINEERING DATE

APPROVED
OFFICE OF PLANNING AND ZONING
Mark S. DeAngelis 11-17-88
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

APPROVED
DEPARTMENT OF PUBLIC WORKS
Donald W. Johnson 10/10/88
CHIEF, LAND DEVELOPMENT DIVISION DATE

W. W. W. W. W. 10/10/88
CHIEF, BUREAU OF HIGHWAYS DATE

GENERAL NOTES

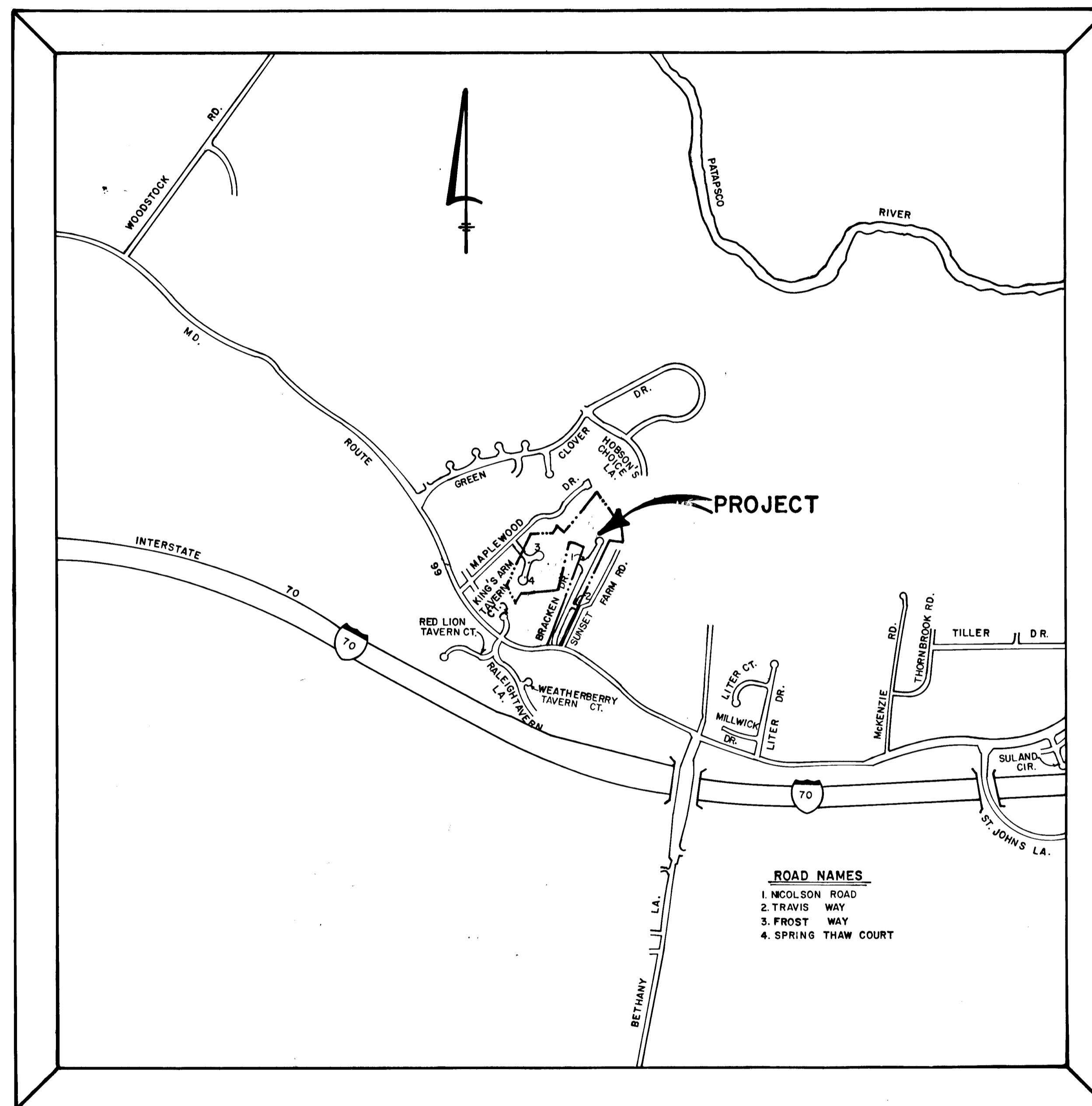
- 1) ALL WORK SHALL BE DONE IN ACCORDANCE WITH HOWARD COUNTY STANDARDS, SPECIFICATIONS, AND DETAILS FOR CONSTRUCTION.
- 2) ALL UTILITY COMPANIES MUST BE NOTIFIED 24 HOURS IN ADVANCE OF ANY CONSTRUCTION
- 3) ALL INLETS SHALL BE HOWARD COUNTY STANDARDS UNLESS OTHERWISE SHOWN ALL "A" INLETS SHALL BE DEPRESSED.
- 4) STORM DRAIN TRENCHES WITHIN ROAD RIGHTS-OF-WAYS SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH HOWARD COUNTY ROAD CODE.
- 5) ANY DAMAGE TO PUBLIC RIGHTS-OF-WAYS OR PAVING WILL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.
- 6) CONTRACTOR TO NOTIFY THE HOWARD COUNTY DEPT OF INSPECTION AT LEAST 3 DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS.
TELEPHONE: 792-7272
- 7) ALL TRAFFIC CONTROL DEVICES SHALL BE INSTALLED IN COMPLIANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, CURRENT REVISED EDITION.

BENCH MARKS

- B. M. #1** ELEV. = 488.58
1/2" REBAR SET AT TRAVERSE POINT "R-103" LOCATED APPROXIMATELY 170' WEST OF PROPOSED INTERSECTION ALONG MARYLAND ROUTE 99 @ 25' TO THE SOUTH. FOR LOCATION SEE SHEET 8.
- B. M. #2** ELEV. = 488.29
1/2" REBAR SET AT TRAVERSE POINT "R-119" LOCATED ON LOT 7 APPROXIMATELY 85' FROM THE FRONT LOT LINE AND LOCATED 60' OFF OF THE COMMON LOT LINE BETWEEN LOTS 7 AND 8. FOR LOCATION SEE SHEET 8.

STREET LIGHTS

- 4 - 175 Watt Mercury Vapor Lamp Post Top Fixture On 14 Foot Gray Fiber Glass Pole At The Following Locations:
1. The Northwest Intersection Of Bracken Drive And Maryland Route 99.
 2. The Southeast Intersection Of Bracken Drive And Travis Way.
 3. The Northwest Intersection Of Bracken Drive And Nicolson Road.
 4. The Southeast Intersection Of Frost Way And Spring Thaw Court.



VICINITY MAP

SCALE: 1" = 1200'

INDEX OF SHEETS

- 1) TITLE SHEET
- 2) BRACKEN DRIVE - PLAN AND PROFILE
- 3) TRAVIS WAY - PLAN AND PROFILE
- 4) BRACKEN DRIVE - PLAN AND PROFILE
- 5) NICOLSON DRIVE - PLAN AND AND PROFILE
- 6) FROST WAY - PLAN AND PROFILE
- 7) SPRING THAW COURT - PLAN AND PROFILE
- 8) STORM DRAIN PROFILES, ROADWAY SECTIONS AND DETAILS
- 9) DRAINAGE AREA MAP AND STORM DRAIN PROFILES.
- 10) STORM WATER MANAGEMENT POND - PLAN, PROFILES AND DETAILS.
- 11) STREET TREE, GRADING AND SEDIMENT CONTROL PLAN
- 12) STREET TREE, GRADING AND SEDIMENT CONTROL PLAN

ROAD NAMES

1. NICOLSON ROAD
2. TRAVIS WAY
3. FROST WAY
4. SPRING THAW COURT

NOTE: THE HORIZONTAL AND VERTICAL CONTROL IS BASED ON THE FOLLOWING STATIONS:
 3440002 N532573.000
 E 837783.247
 3441004 R N532658.086
 E 840720.726

AS-BUILT SURVEY CERTIFIED BY CHARLES J. GROVO, MD. P.E. 11-19-2014 ON DEC. 13, 1990.



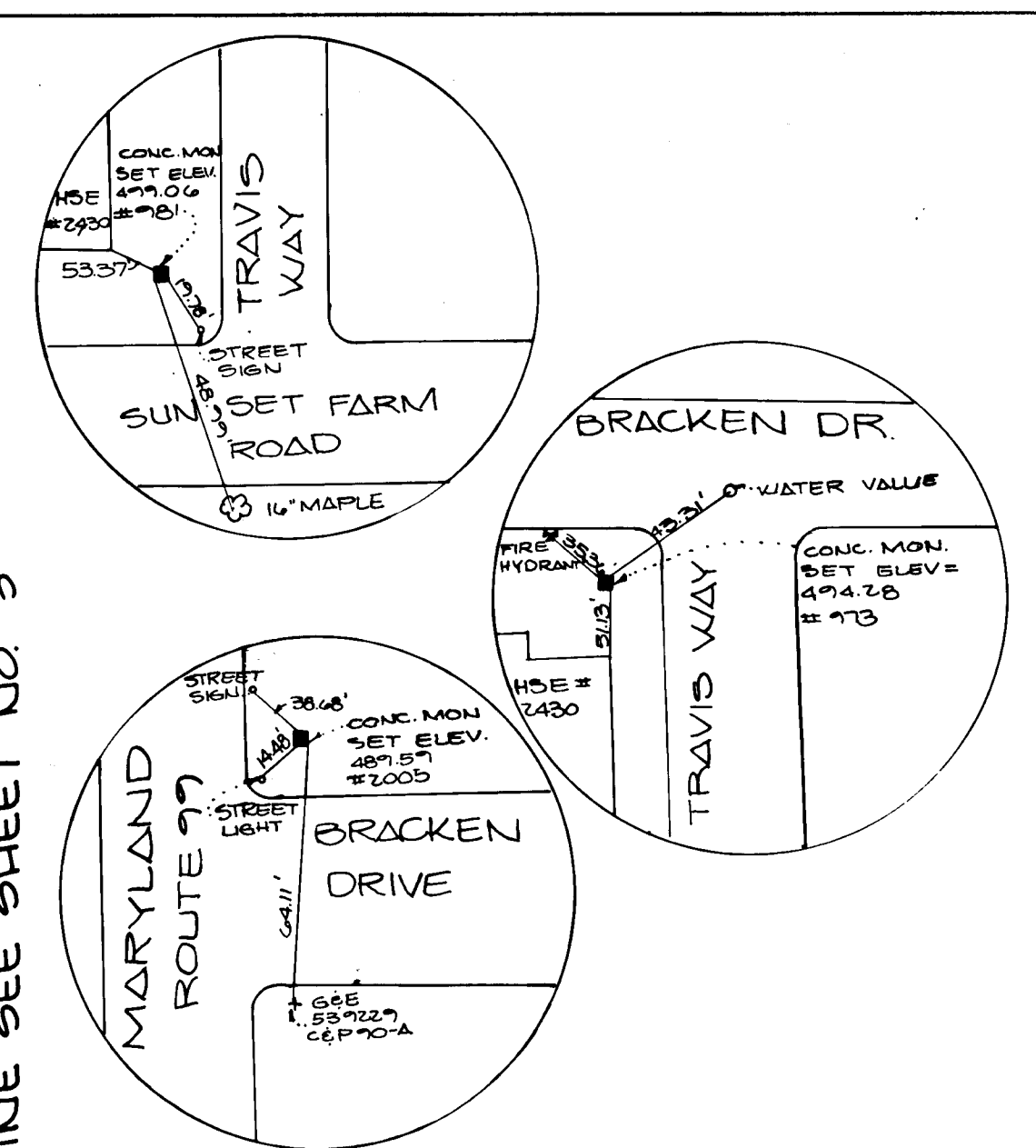
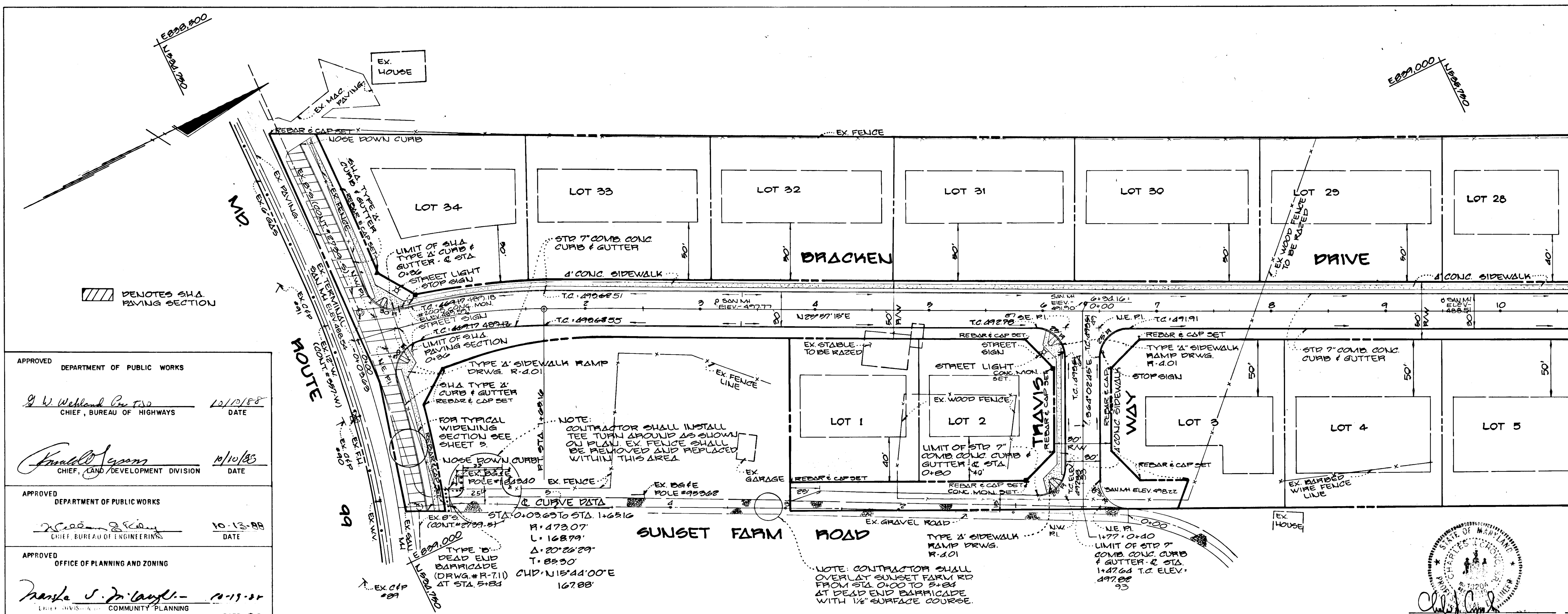
OWNER AND DEVELOPER
 ELLICOTT CITY LAND HOLDING CO. INC.
 8307 MAIN STREET
 ELLICOTT CITY MARYLAND 21043

CHARLES J. GROVO, SR. DATE 5/19/88

FISHER, COLLINS AND CARTER, INC.
 CONSULTING ENGINEERS AND LAND SURVEYORS
 8388 COURT AVENUE
 ELLICOTT CITY, MARYLAND 21043

AS-BUILT

F 88-263



MATCH LINE SEE SHEET NO. 3

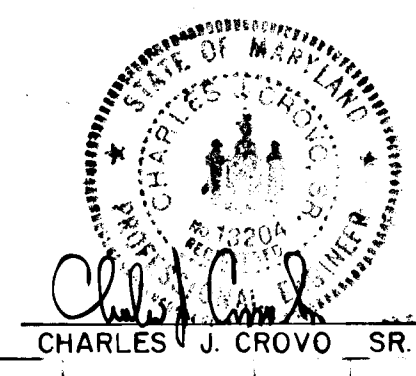
MAPLE FOREST
 SECTIONS 1 & 2
 LOTS 1-52
 2ND ELECTION DISTRICT
 HOWARD COUNTY MARYLAND

BRACKEN DRIVE **TRAVIS WAY**
 PLAN & PROFILE PLAN & PROFILE

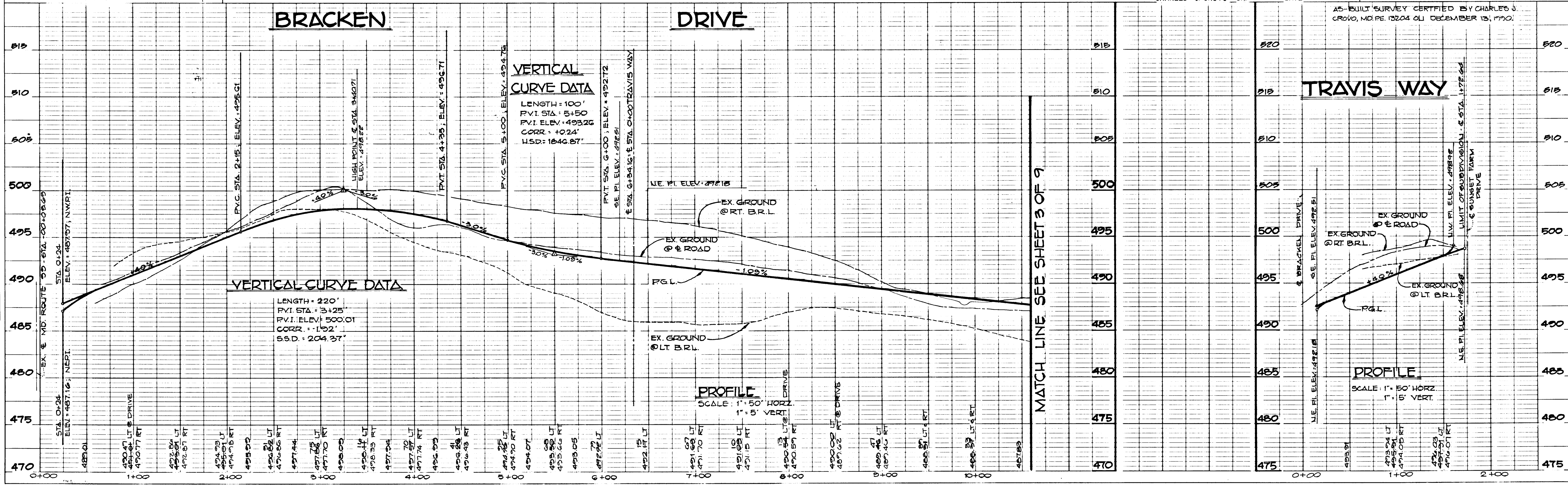
OWNER AND DEVELOPER
 ELLICOTT CITY LAND HOLDING CO. INC.
 8307 MAIN STREET
 ELLICOTT CITY MARYLAND 21093

SCALE AS SHOWN DATE MAY 16, 1988 DWG. NO. 2 OF 9
 DES. Z. FISCH DRN. C. BAUER CHK. C. GROVO

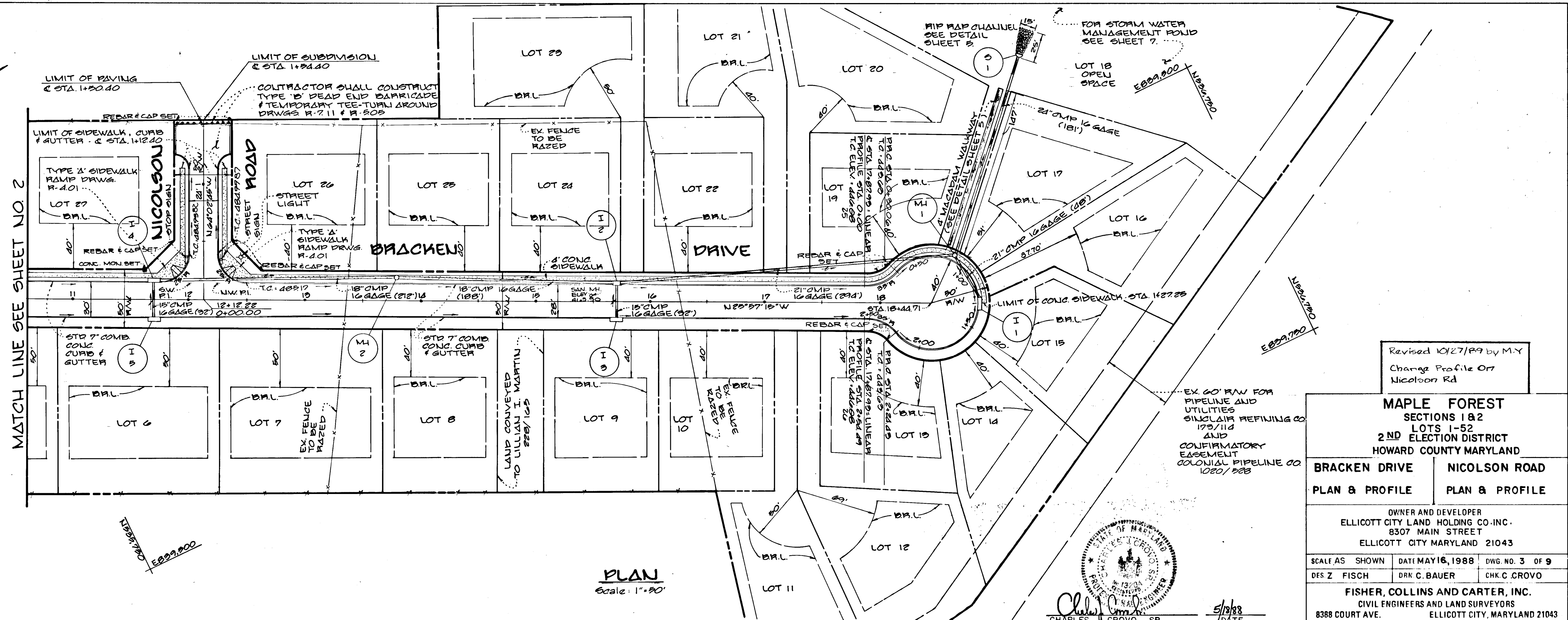
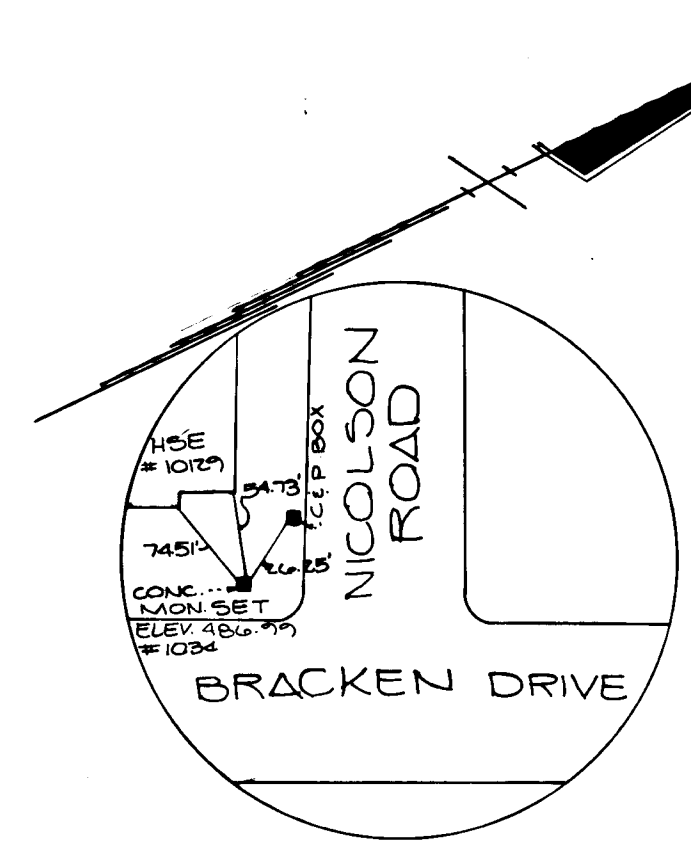
FISHER, COLLINS AND CARTER, INC.
 CIVIL ENGINEERS AND LAND SURVEYORS
 8388 COURT AVE. ELLICOTT CITY, MARYLAND 21043



1308



MATCH LINE SEE SHEET 3 OF 9



PLAN
Scale: 1"=40'

Revised 10/27/89 by M.Y.
Change Profile On
Nicolson Rd

MAPLE FOREST
SECTIONS 1&2
LOTS 1-52
2ND ELECTION DISTRICT
HOWARD COUNTY MARYLAND

BRACKEN DRIVE **NICOLSON ROAD**

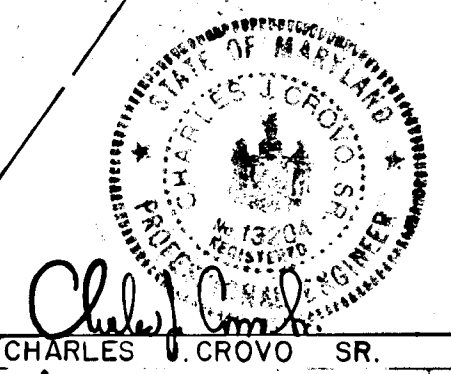
PLAN & PROFILE **PLAN & PROFILE**

OWNER AND DEVELOPER
ELLCOTT CITY LAND HOLDING CO.-INC.
8307 MAIN STREET
ELLCOTT CITY MARYLAND 21043

SCALE AS SHOWN DATE MAY 16, 1988 DWG. NO. 3 OF 9
DES Z FISCH DRK C. BAUER CHK C. CROVO

FISHER, COLLINS AND CARTER, INC.
CIVIL ENGINEERS AND LAND SURVEYORS
8388 COURT AVE. ELLCOTT CITY, MARYLAND 21043

AS-BUILT SURVEY CERTIFIED BY CHARLES J. CROVO, MD, PE, No. 13204 01 DECEMBER 13, 1990

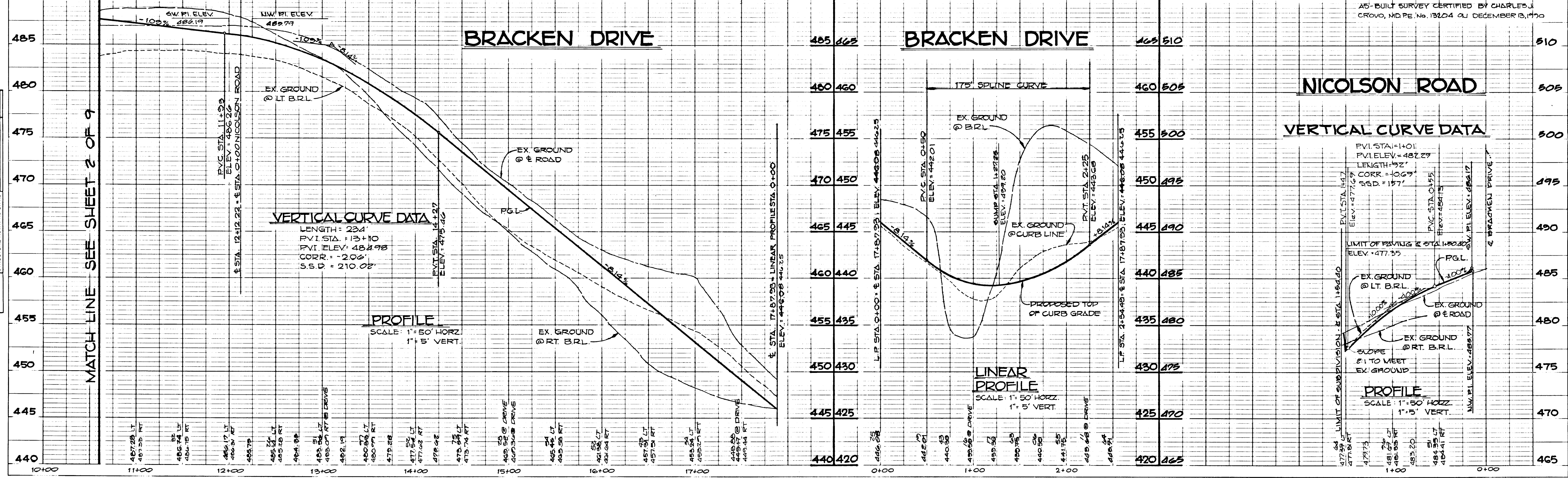


APPROVED DEPARTMENT OF PUBLIC WORKS
W. W. W. T. S. O. 10/11/88
CHIEF, BUREAU OF HIGHWAYS DATE

APPROVED DEPARTMENT OF PUBLIC WORKS
Paul J. ... 10/10/88
CHIEF, LAND DEVELOPMENT DIVISION DATE

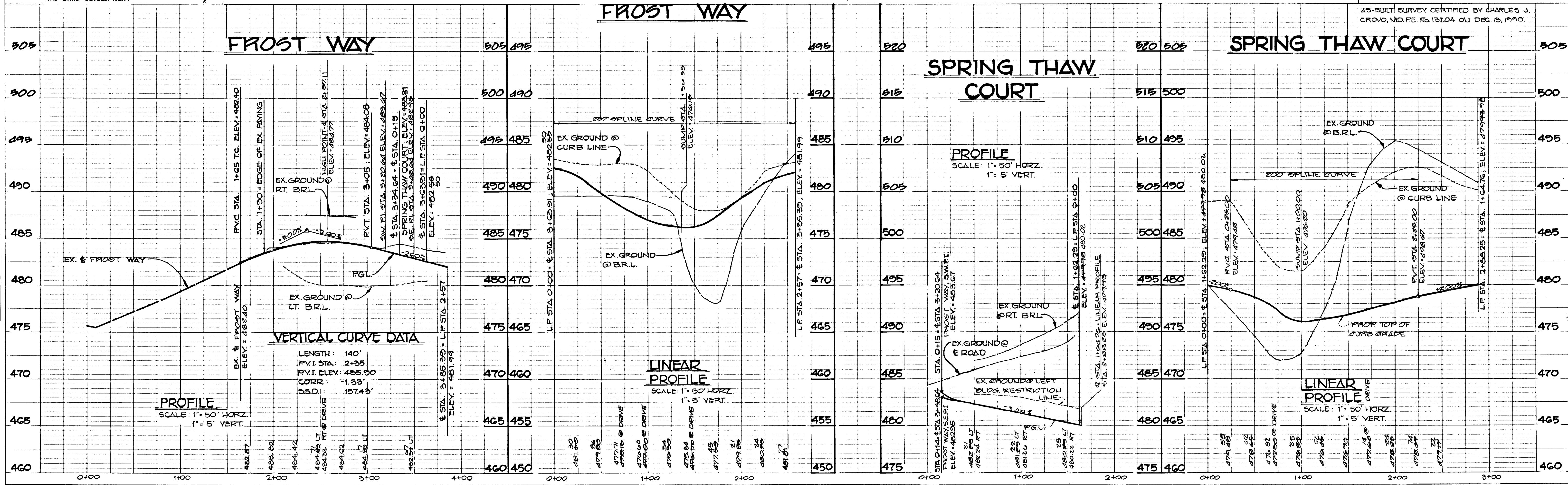
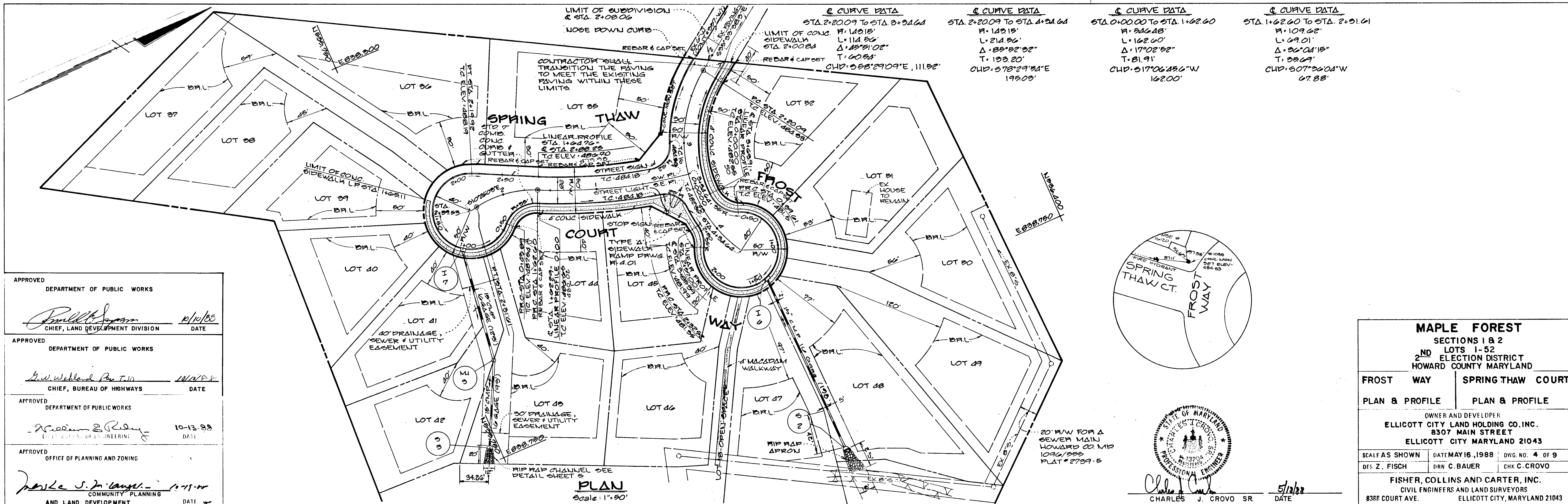
APPROVED DEPARTMENT OF PUBLIC WORKS
M. ... & R. ... 10-13-88
CHIEF, BUREAU OF ENGINEERING DATE

APPROVED OFFICE OF PLANNING AND ZONING
Paul J. ... 10-11-88
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

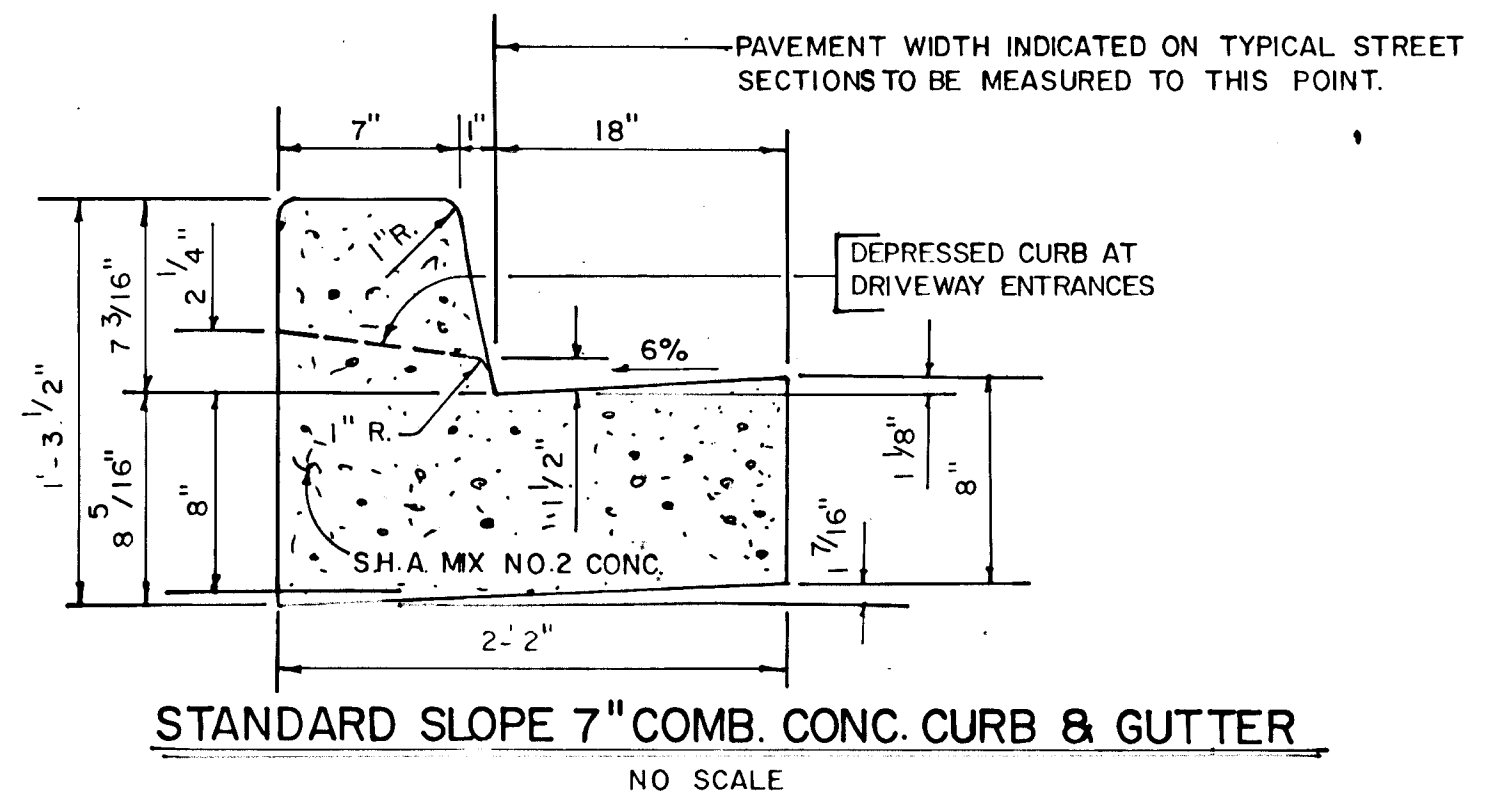


PROFILES SURVEYED
LOCATIONS CHECKED
ELEVATIONS NOTED
STRUCTURE NOTATIONS CHECKED

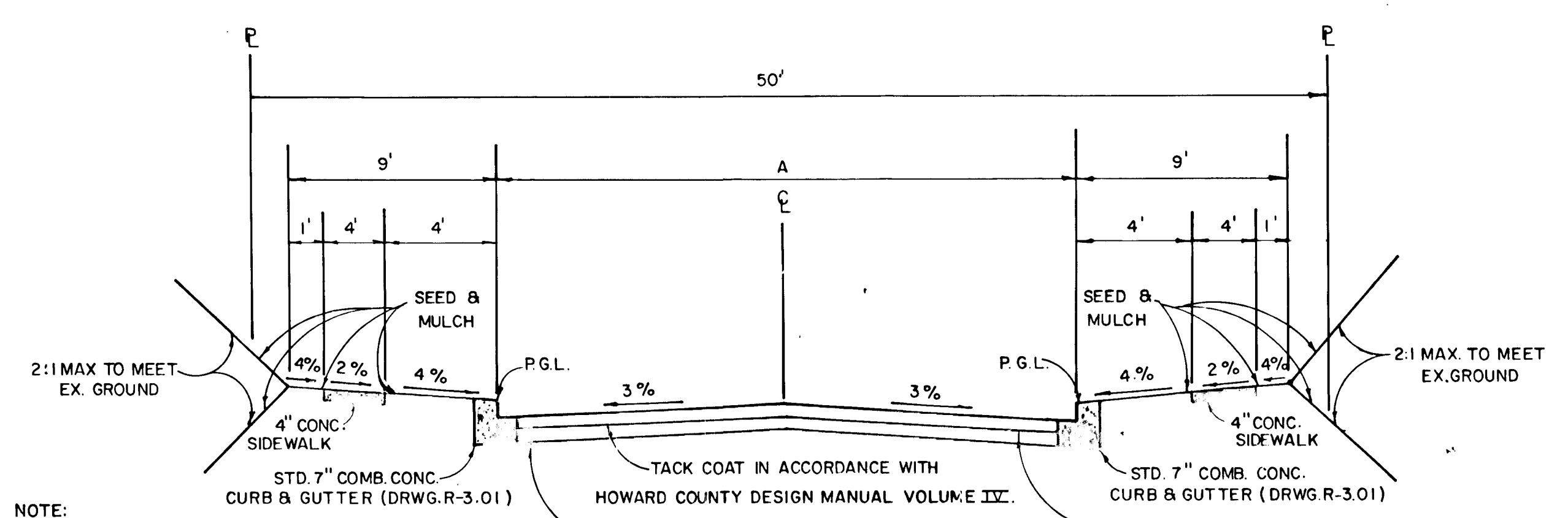
MATCH LINE SEE SHEET 2 OF 9



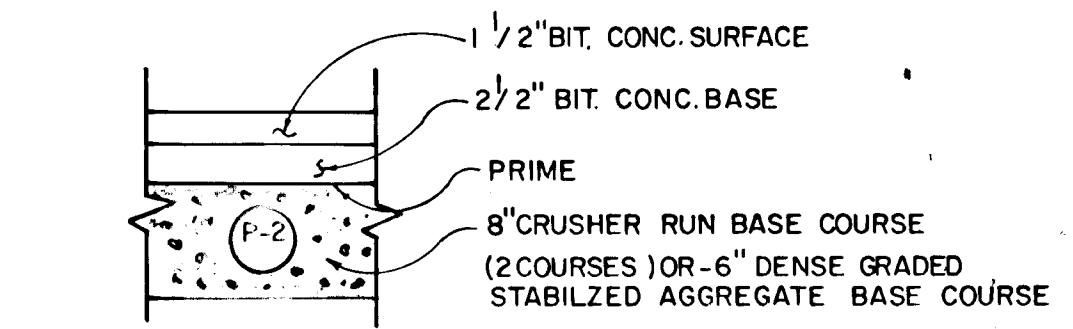
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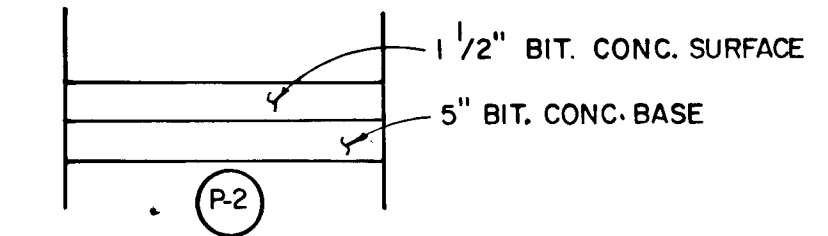
STANDARD SLOPE 7" COMB. CONC. CURB & GUTTER
NO SCALE



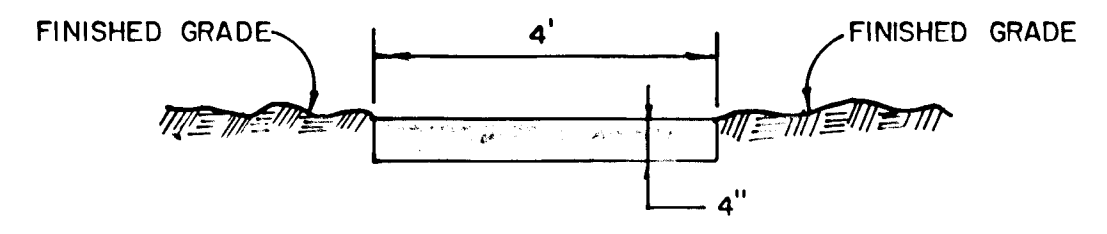
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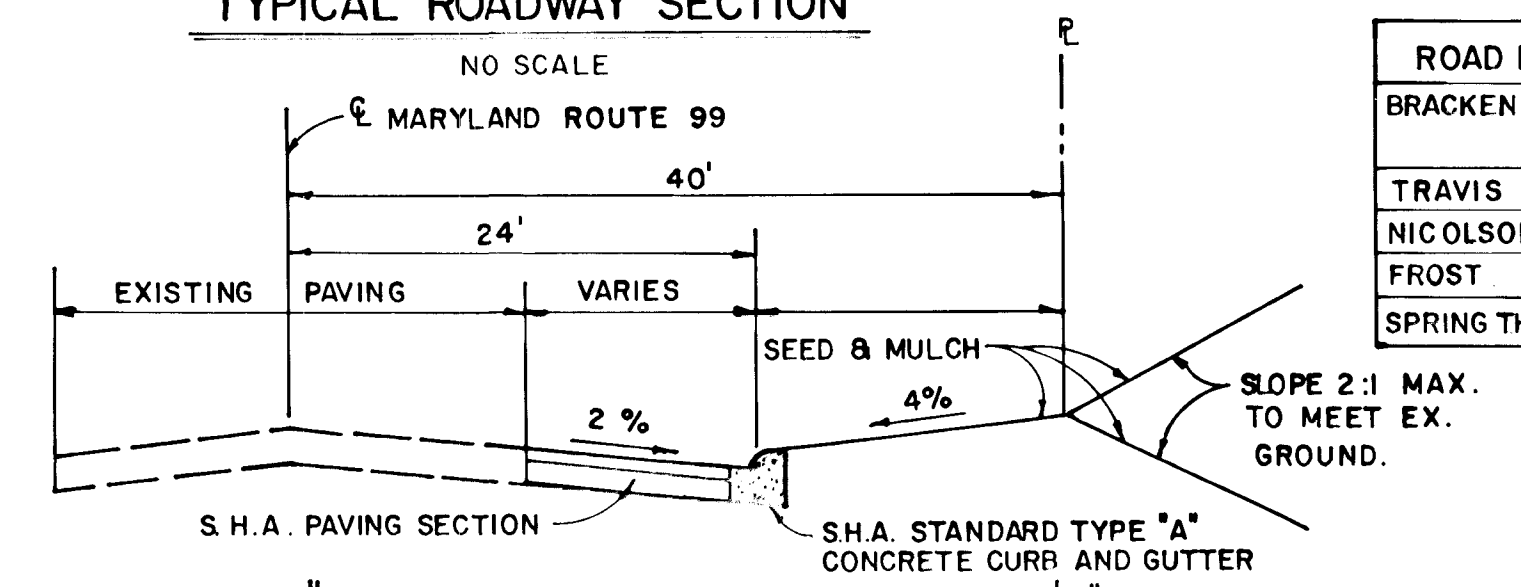
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NO SCALE



PAVING SECTION P-2
NO SCALE



MACADAM WALKWAY DETAIL
NO SCALE



TYPICAL WIDENING SECTION ALONG MARYLAND ROUTE 99
NO SCALE

ROAD NAME	CLASSIFICATION	DESIGN SPEED	ZONING	A	STATION LIMITS
BRACKEN DRIVE	LOCAL ROAD	30 M.P.H.	R-20	30'	-00+03.63 TO 12+12.22
	CUL-DE-SAC	30 M.P.H.	R-20	28'	12+12.22 TO 17+87.93
TRAVIS WAY	LOCAL ROAD	30 M.P.H.	R-20	30'	0+00 TO 1+72.64
NICOLSON DRIVE	LOCAL ROAD	30 M.P.H.	R-20	24'	0+00 TO 1+50.40
FROST WAY	CUL-DE-SAC	25 M.P.H.	R-20	30'	2+08.06 TO 3+63.91
SPRING THAW COURT	CUL-DE-SAC	25 M.P.H.	R-20	28'	0+00 TO 1+62.76

MAPLE FOREST
SECTIONS 1 & 2
2ND ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

STORM DRAIN PROFILES, ROADWAY SECTIONS AND DETAILS

OWNER AND DEVELOPER
ELLICOTT CITY LAND HOLDING CO.-INC.
8307 MAIN STREET
ELLICOTT CITY MARYLAND 21043

SCALE AS SHOWN DATE MAY 16, 1988 DWG. NO. 5 OF 9
DES. VANDE RYT DRNG. BAUER CHK. C. GROVO

FISHER, COLLINS AND CARTER, INC.
CIVIL ENGINEERS AND LAND SURVEYORS
8388 COURT AVE. ELLICOTT CITY, MARYLAND 21043

Charles J. Grovo Sr.
CHARLES J. GROVO SR. 5/19/88
DATE

APPROVED DEPARTMENT OF PUBLIC WORKS
Edward B. TSO 10/10/88
CHIEF, BUREAU OF HIGHWAYS DATE

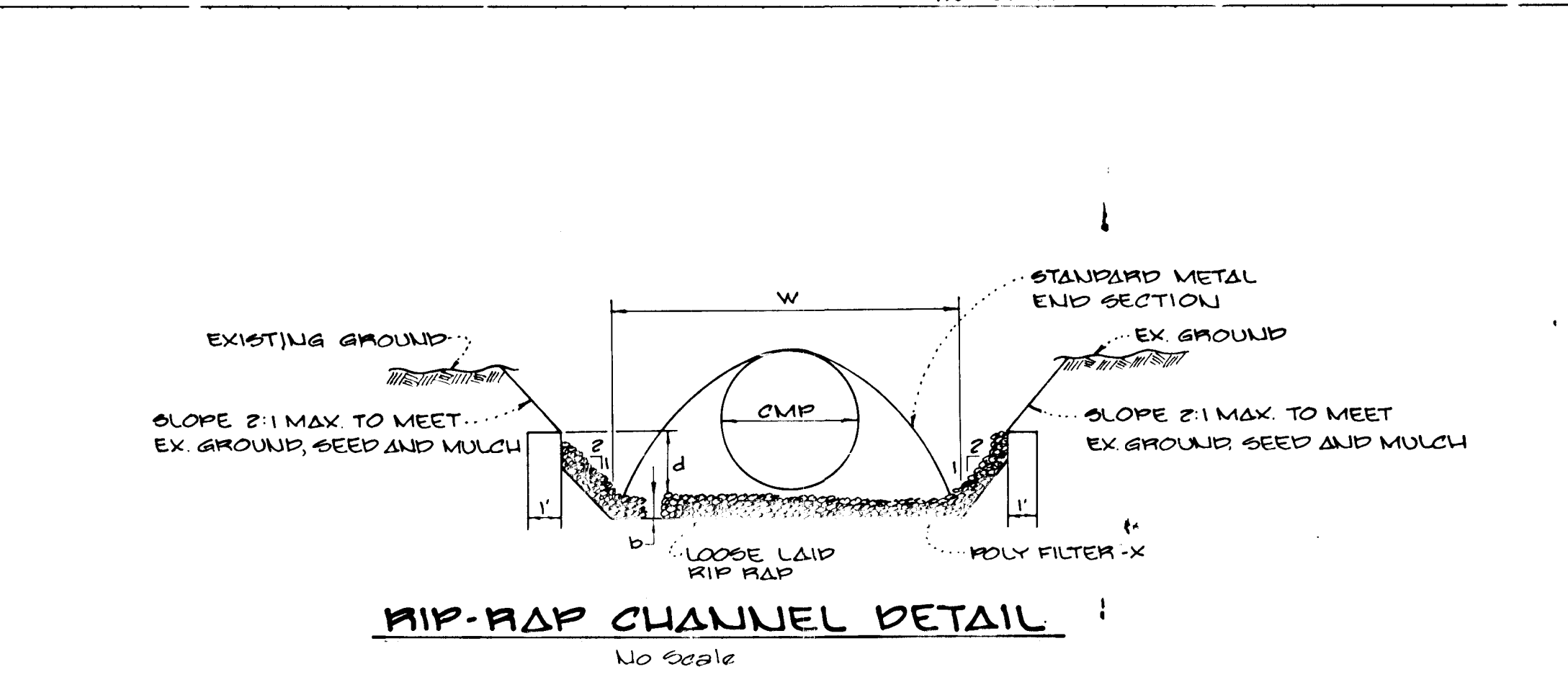
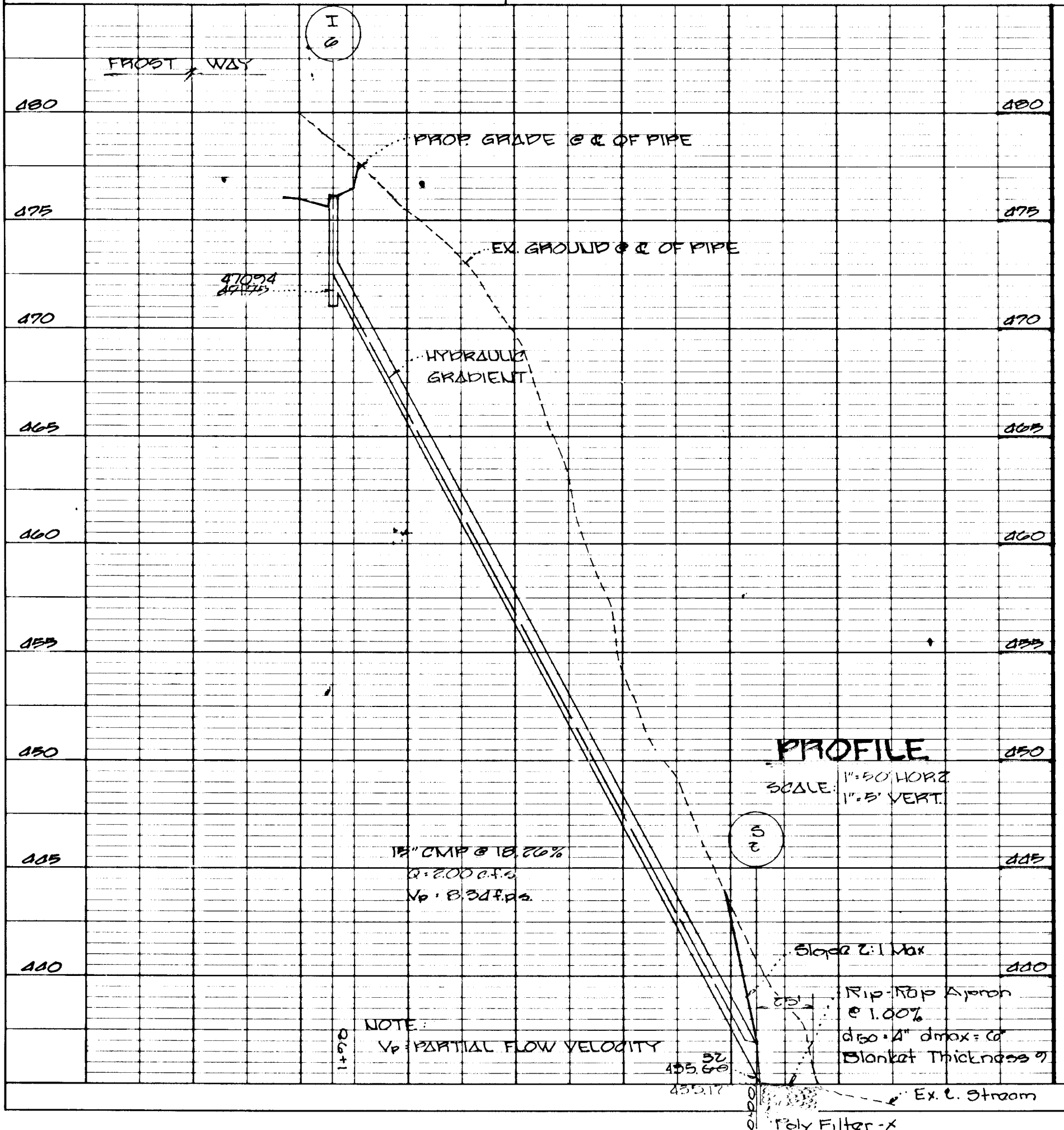
APPROVED DEPARTMENT OF PUBLIC WORKS
Donald J. Sposon 10/10/88
CHIEF, LAND DEVELOPMENT DIVISION DATE

APPROVED DEPARTMENT OF PUBLIC WORKS
William E. Reilly 10-18-88
CHIEF, BUREAU OF ENGINEERING DATE

APPROVED OFFICE OF PLANNING AND ZONING
Janice J. Langille 10-11-88
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

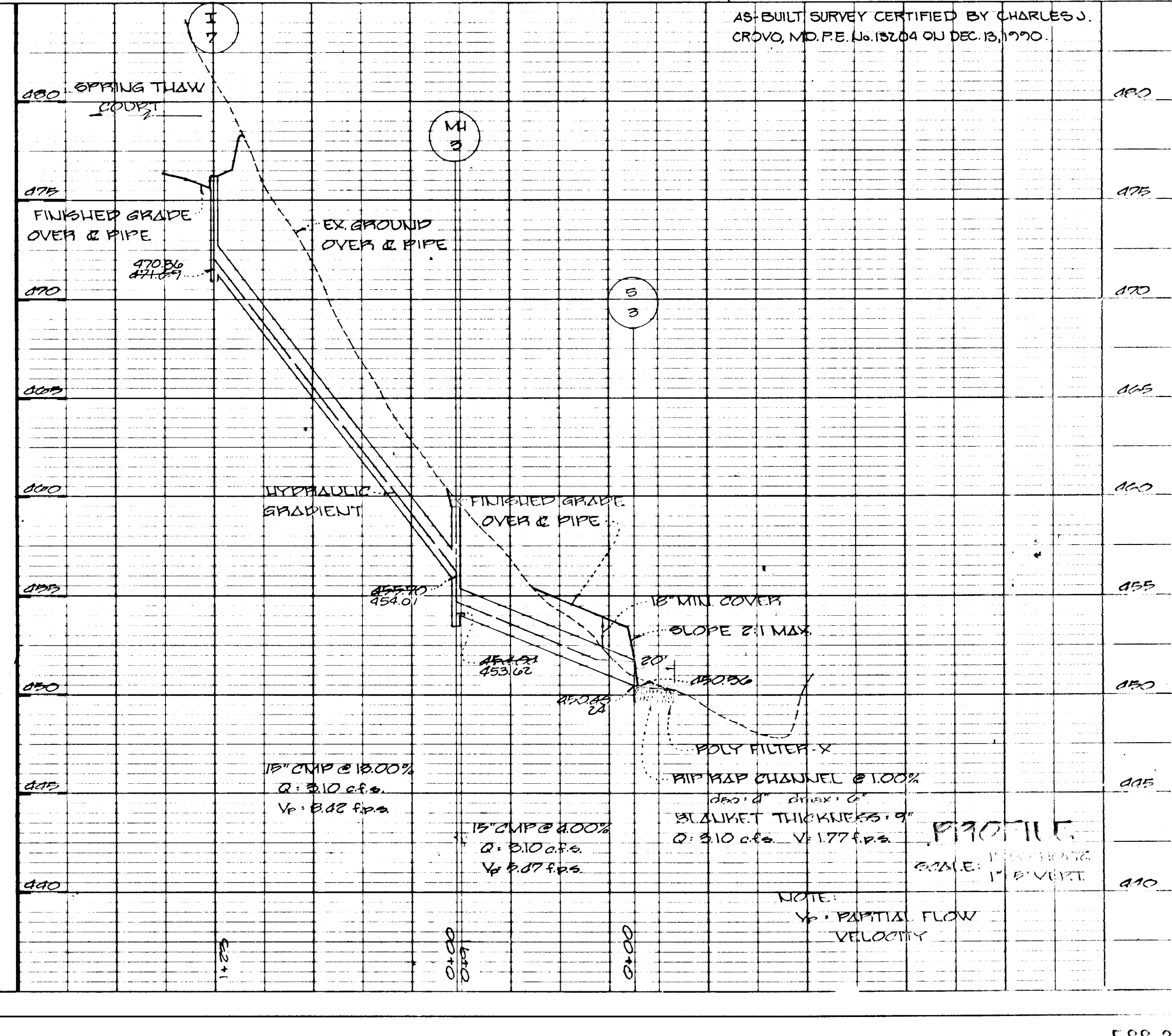
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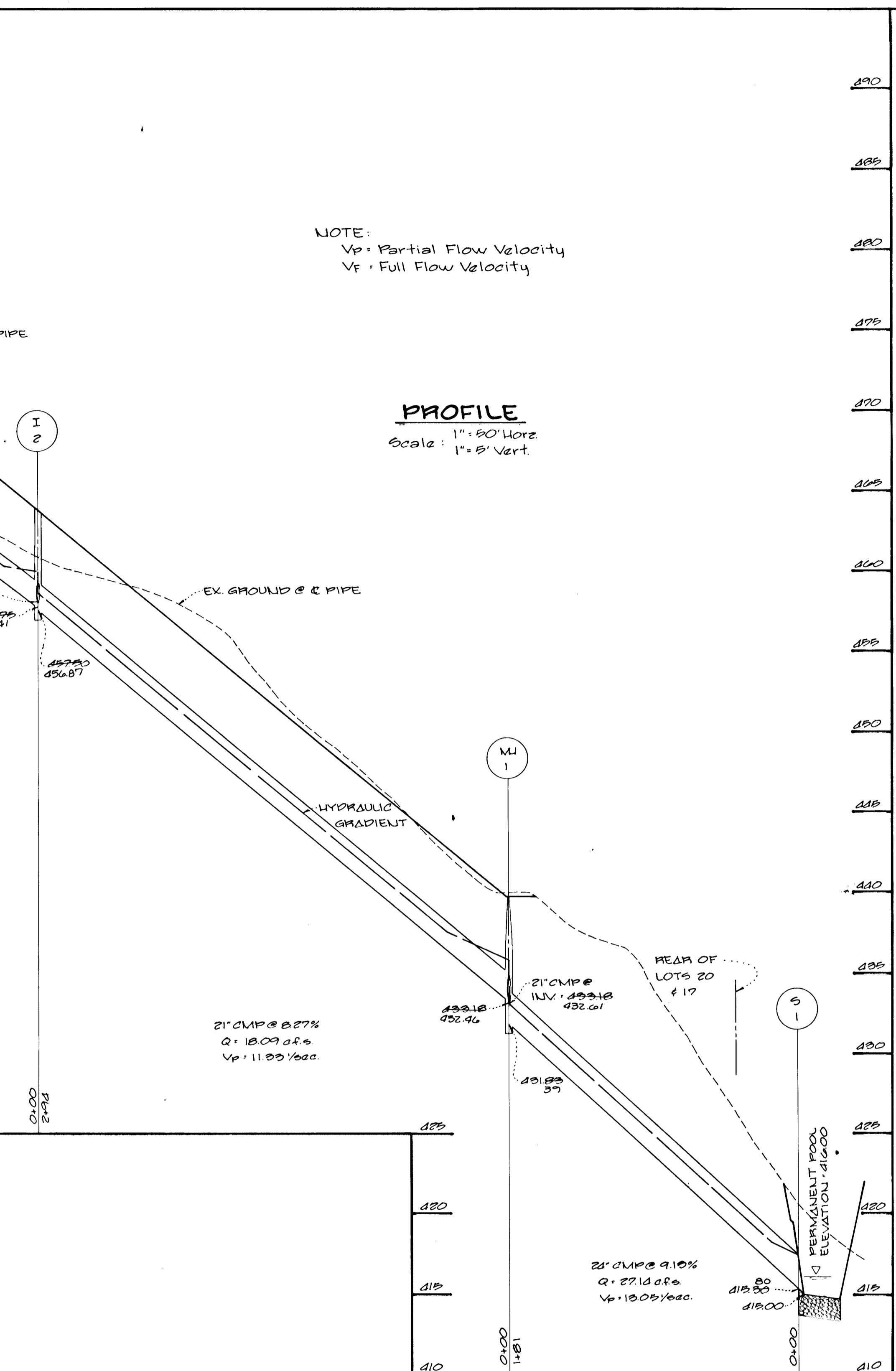
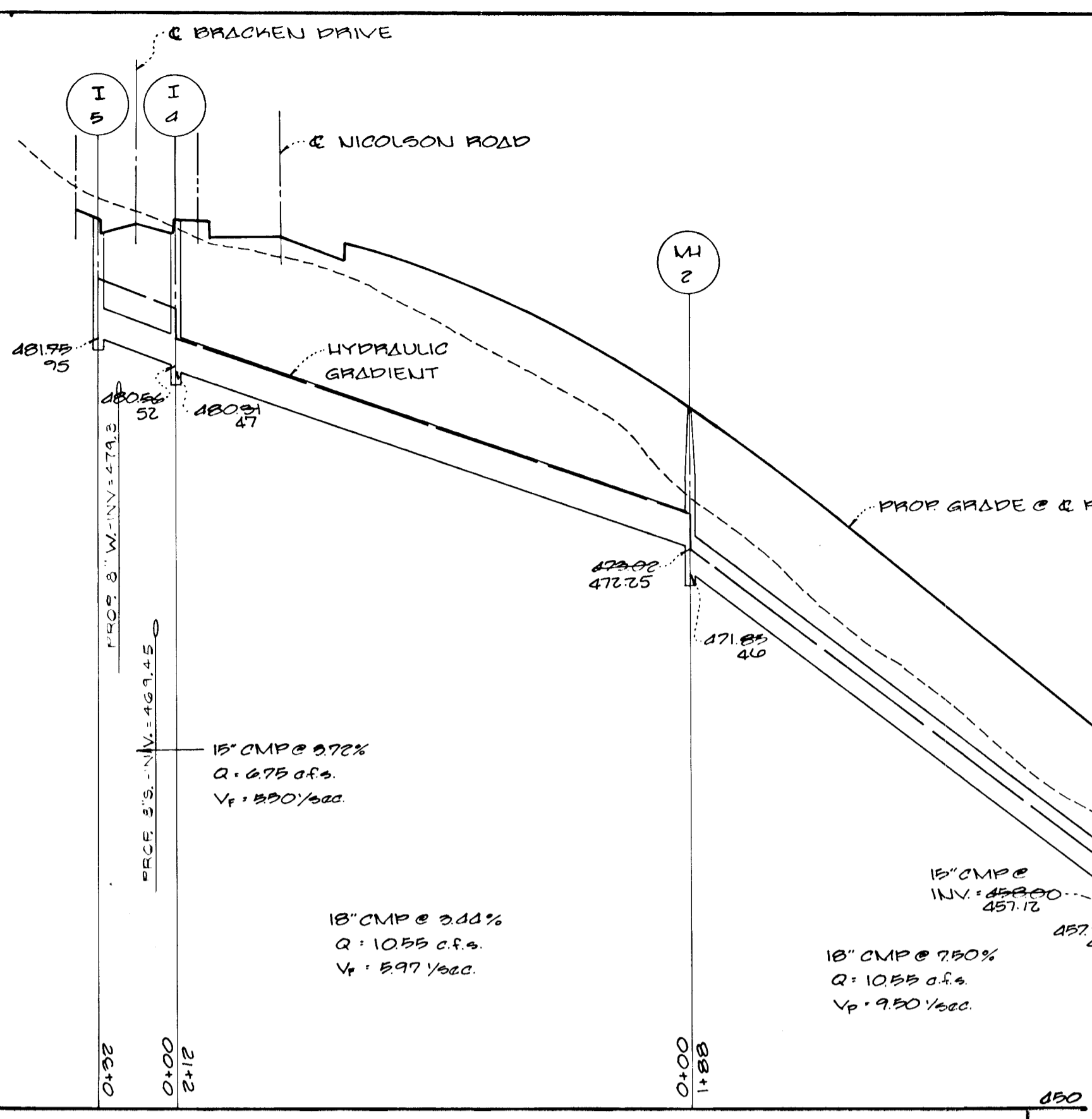
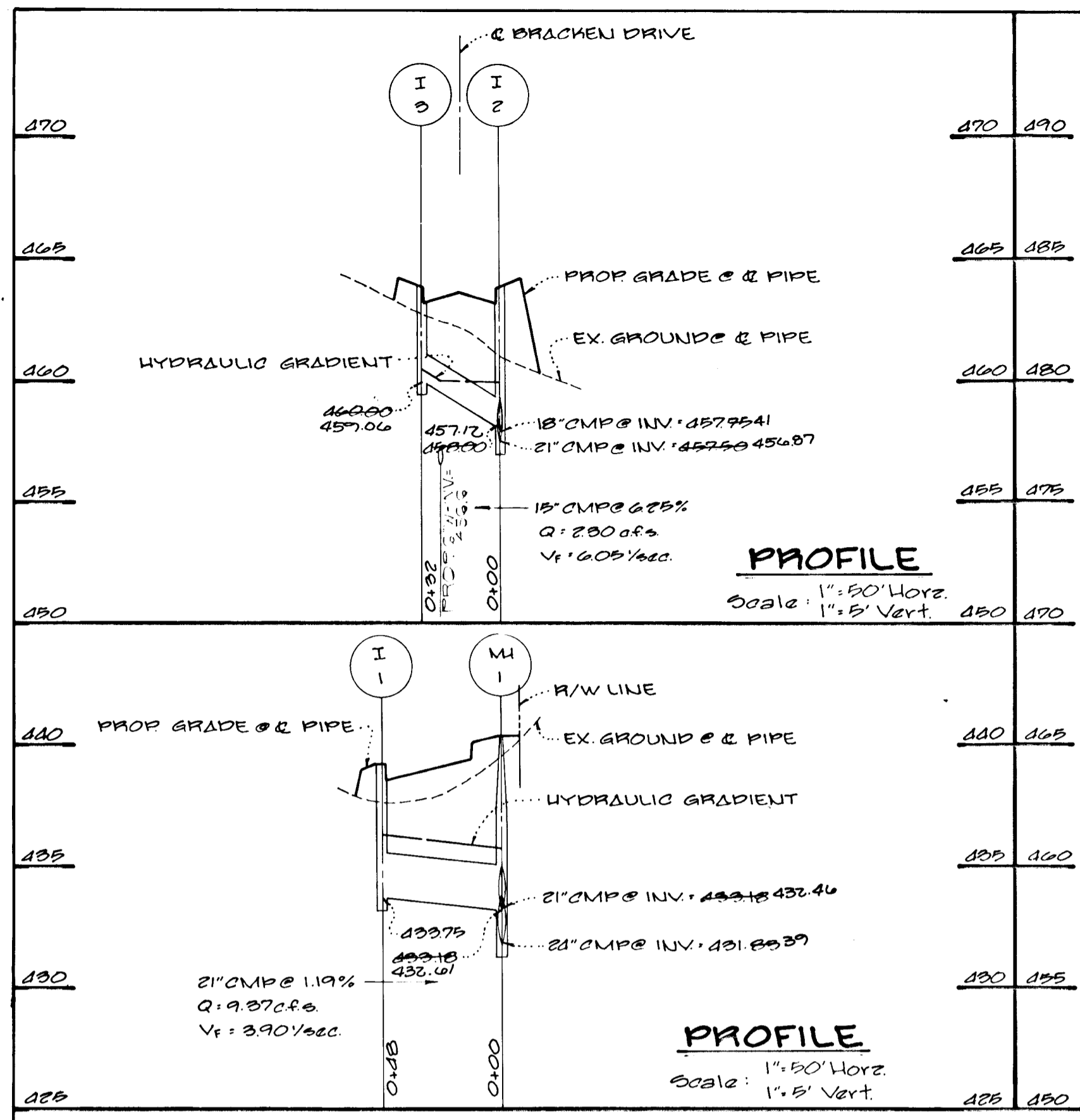
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PROJECT NO.



RIP-RAP CHANNEL DETAIL
No Scale

STRUCT	AREA	P'	R	R 2/3	S	S 1/2	n	Q	V	d	w	RIP-RAP SIZE	BLANKET
S-1	8.00	10.47	0.7641	0.8350	0.0150	0.1225	0.04	30.39 C.F.S.	3.80 / SECOND	1.0'	6.0'	6" 9" 14"	
S-2	2.38	6.15	0.3871	0.5297	0.0100	0.1000	0.04	4.69 C.F.S.	1.97 / SECOND	0.48'	4.0'	6" 9" 14"	
S-3	1.92	5.79	0.2286	0.4075	0.0100	0.1000	0.04	3.10 C.F.S.	1.77 / SECOND	0.40'	4.0'	6" 9" 14"	



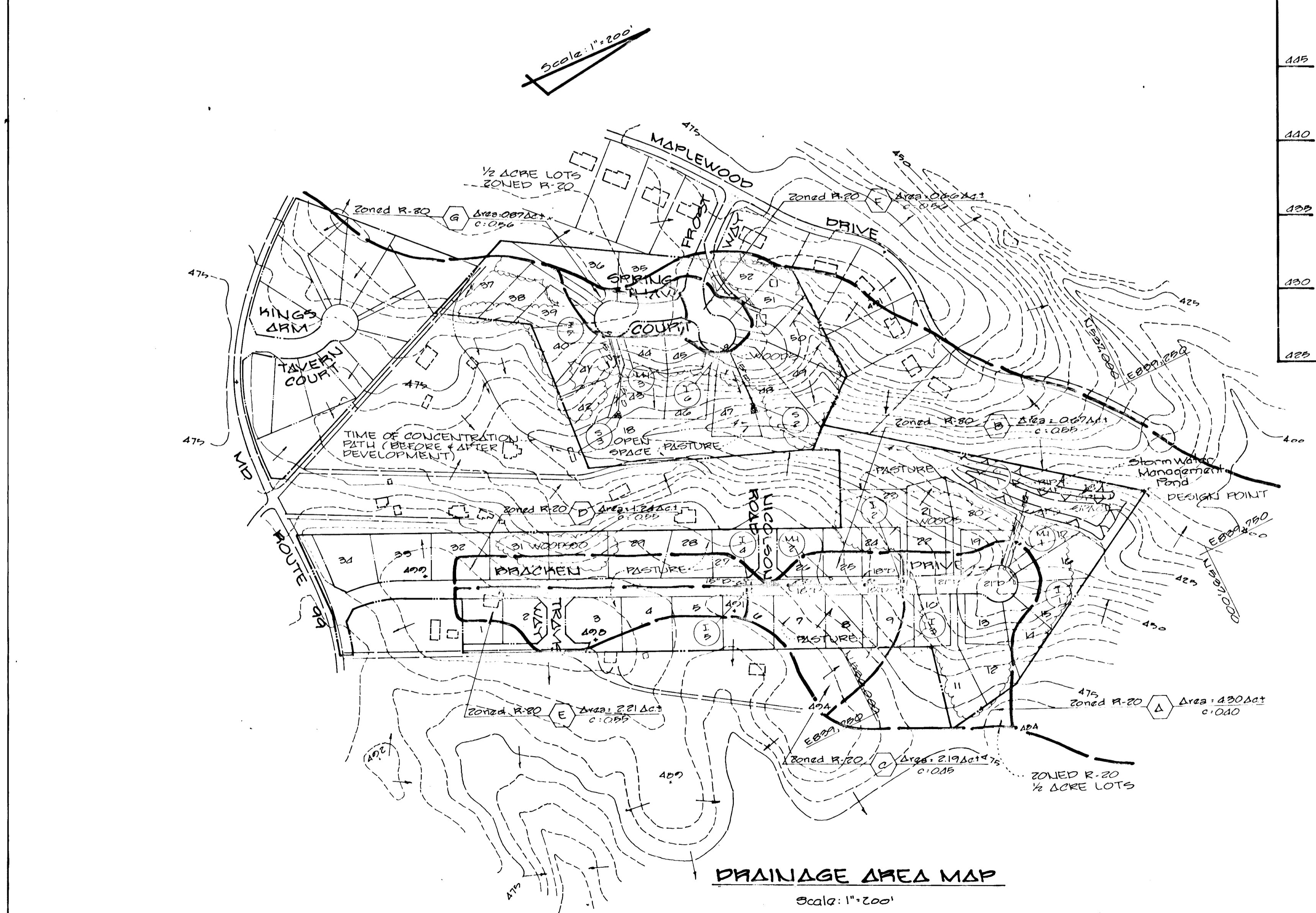
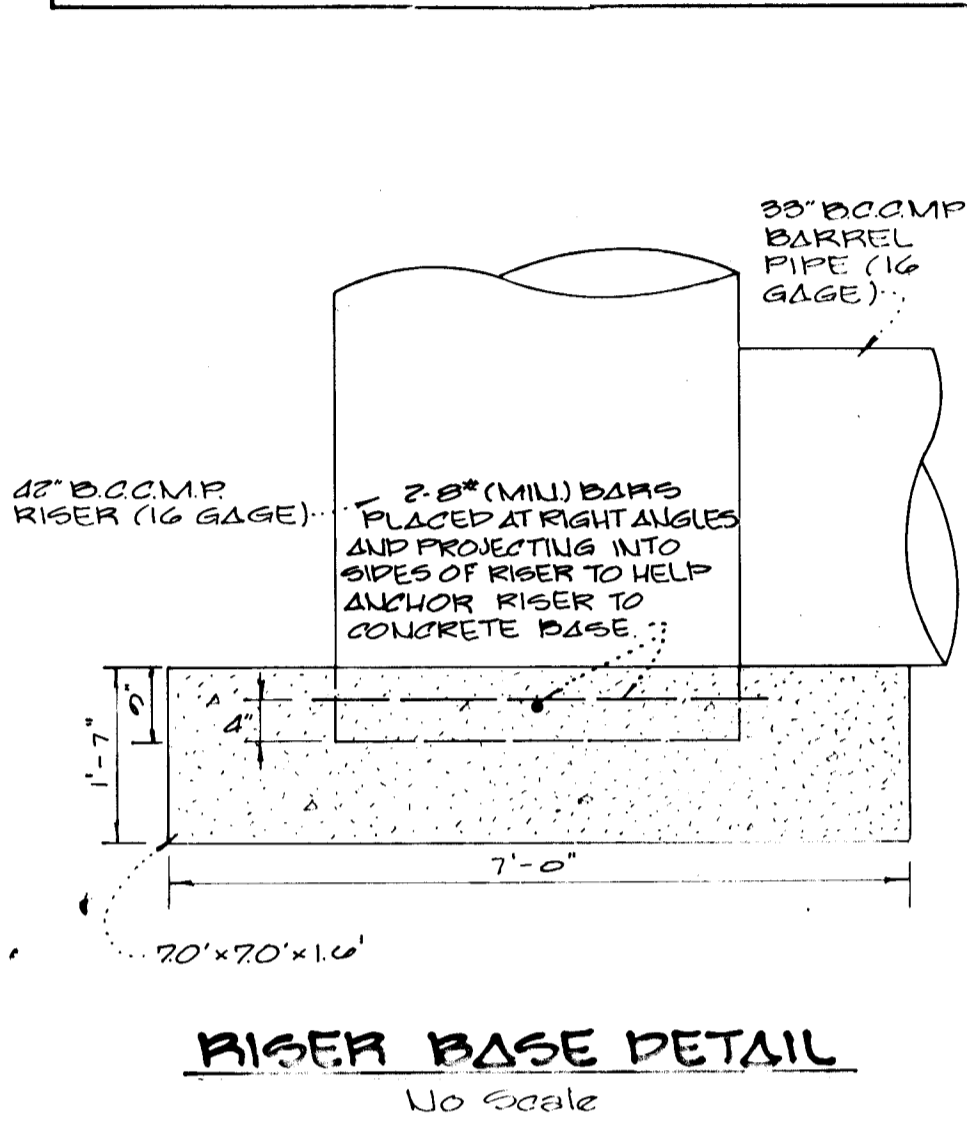


APPROVED
DEPARTMENT OF PUBLIC WORKS
10-13-88
DATE

APPROVED
OFFICE OF PLANNING AND ZONING
10-19-88
DATE

APPROVED
DEPARTMENT OF PUBLIC WORKS
10/16/88
DATE

10/17/88
DATE



STRUCTURE	TYPE	INV. IN	INV. OUT	TOP ELEV.	ROAD STATION	REMARKS
1-1	A-10	457.12	433.75	439.7823	L.P. STA. 1477.75 BRACKEN DR.	S.D. 4.02
1-2	A-5 W/DIFFLECTORS	458.00	447.50	463.8381	ST. STA. 15470.00 BRACKEN DR.	S.D. 4.01 & 4.63
1-3	A-10 W/DIFFLECTORS	458.00	460.00	463.8381	ST. STA. 15470.00 BRACKEN DR.	S.D. 4.02 & 4.63
1-4	A-10	480.5652	480.3447	486.4351	ST. STA. 11469.72 BRACKEN DR.	S.D. 4.02
1-5	A-10	481.2575	481.2575	486.4355	ST. STA. 11469.72 BRACKEN DR.	S.D. 4.02
1-6	A-5	482.21	478.9175	479.254702	L.P. STA. 1424.33 FROST HWY	S.D. 4.01
MH 1	STAND. MANHOLE	433.75	431.8357	439.734007		G. 5.01
MH 2	STAND. MANHOLE	472.5473.02	471.8540	479.774705		G. 5.01
S-1	STAND. METAL END SECTION	415.00	415.00	417.3000		S.D. 5.61
S-2	STAND. METAL END SECTION	455.00	455.17	456.8557		S.D. 5.61
I-7	A-5	470.07	470.07	476.8829	L.P. STA. 14000 SPANNE THAW CT.	S.D. 4.01
MH 3	STAND. MANHOLE	474.70	452.4702	474.404657		G. 5.01
S-3	STAND. METAL END SECTION	450.00	450.00	451.6549		S.D. 5.61

DRAINAGE AREA MAP AND STORM DRAIN PROFILES

MAPLE FOREST

SECTIONS 1 & 2
ND LOTS 1-52
2 ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN MAY 16, 1988

SHEET 6 OF 9

FISHER, COLLINS AND CARTER, INC.
CONSULTING ENGINEERS AND LAND SURVEYORS
8398 COURT AVENUE
ELLCOTT CITY, MARYLAND 21043
TELEPHONE: (301) 461-2855

AS-BUILT SURVEY CERTIFIED BY CHARLES J. CROVO, MD. PE. No. 13204, 04 DEC. 13, 1990.

OWNER AND DEVELOPER
ELLCOTT CITY LAND HOLDING CO. INC.
8307 MAIN STREET
ELLCOTT CITY MARYLAND 21043

5/19/88
DATE

POND SPECIFICATIONS

I. SITE PREPARATION

Areas under the embankment and structural works shall be cleared, grubbed and the topsoil stripped to remove all trees, vegetation, roots or other objectionable material. To facilitate clean out and restoration, it is recommended that the permanent pool area be cleared of all brush and trees.

II. EARTH FILL

Material
The fill material shall be taken from approved designated borrow area or areas. It shall be free from roots, stumps, wood, rubbish, over-size stones, frozen or other objectionable materials. The embankment shall be constructed to an elevation which provides for anticipated settlement to the design elevation. The fill height all along the length of the embankment shall be increased at least 10 percent above the design elevation (including freeboard) unless otherwise shown on the plans. All fill material shall be CL or ML, as approved by Soils Engineer.

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

Core Trench

Where specified, a core trench shall be excavated along or parallel to the centerline of the embankment, as shown on the plans. The bottom width of the trench shall be governed by the equipment used for excavation with the minimum width being 4-feet. The depth shall be at least 4-feet or as shown on the plans. The side slopes of the trench shall be 1:1 or flatter. The backfill material for the core trench shall be the most impervious material available and shall be compacted with equipment or rollers to assure maximum density and minimum permeability. Compact to 95% of AASHTO T-99 density. Materials shall be CL or ML as approved by Soils Engineer.

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 4-inches in thickness and compacted by hand tampers or other compaction equipment. The material needs to fill completely all spaces under and adjacent to the pipe. At no time during the backfilling operation shall driven equipment be allowed to operate closer than 4-feet to any part of a structure. Under no circumstances shall the contractor drive equipment over any part of a structure or pipe unless there is a compacted fill of 2-feet or greater over the structure or pipe.

IV. PIPE CONDUITS

A. CORRUGATED METAL PIPE

- Materials - Metal Pipe - This pipe and its appurtenances shall conform to the requirements of AASHTO Specification M-196 or M-211, with watertight coupling bands.
- Connections - All connections with pipes must be completely watertight. The drain pipe or barrel shall be connected to the control structure shall be mortared all around. Watertight coupling bands shall be used at all joints. Anti-seep collars shall be connected to the pipe in such a manner as to be completely watertight.
- Bedding - 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.
- Laying pipe - The pipe shall be placed with inside circumferential laps pointing downstream and with the longitudinal laps at the sides.
- Backfilling shall conform to structural backfill as shown above.
- Other details (anti-seep collars, valves, etc.) shall be as shown on the drawings.

V. CONCRETE

Concrete shall meet minimum requirements set forth in Maryland State Highway Administration Specifications for Materials, Highways, Bridges, and Incidental Structures, Article 20.07 (Portland Cement Concrete Mixtures), Mix No. 3.

VI. STABILIZATION

All borrow areas shall be graded to provide proper drainage and left in a slightly condition. All exposed surfaces of the embankment, spillway and borrow areas shall be stabilized by permanent seeding and applying straw mulch in accordance with "Standards and Specifications for Soil Erosion and Sediment Control in Urbanizing Areas" immediately after finish grading.

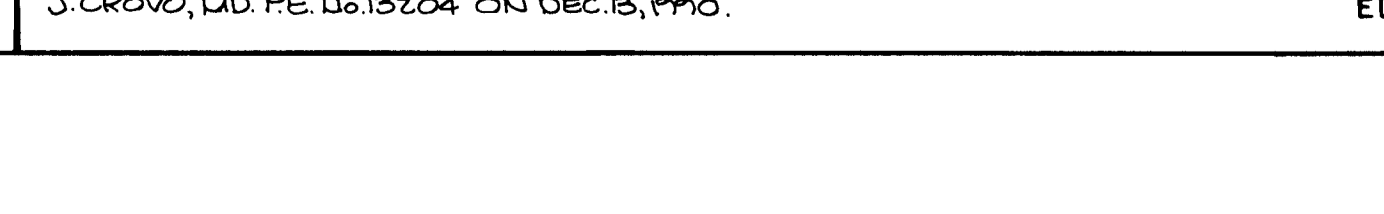
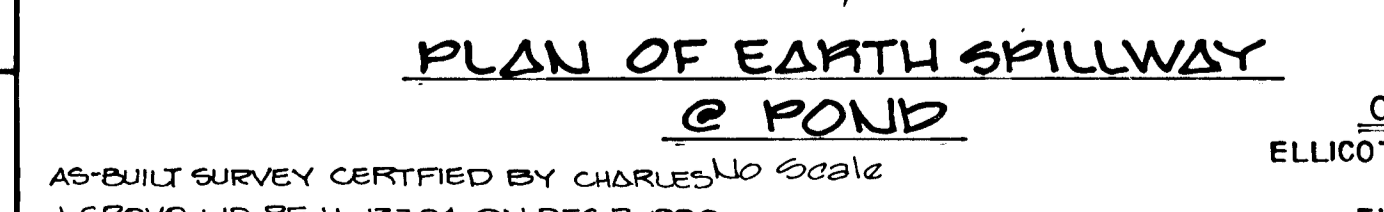
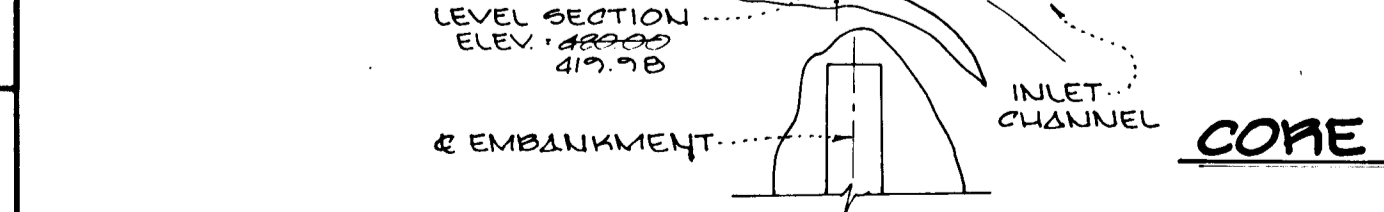
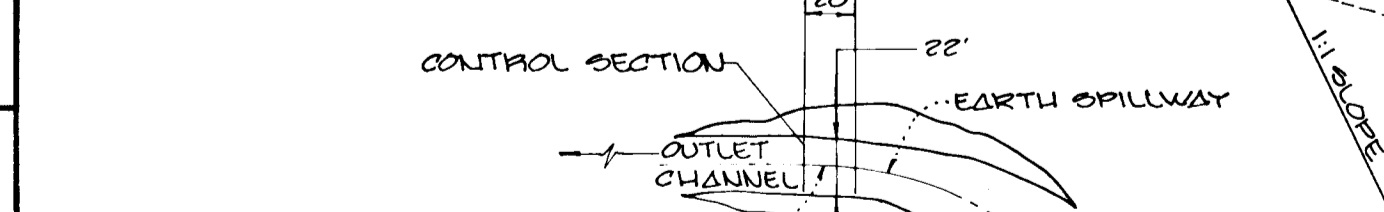
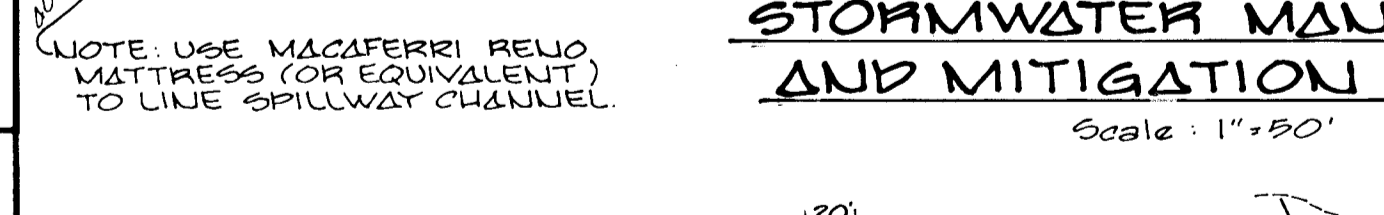
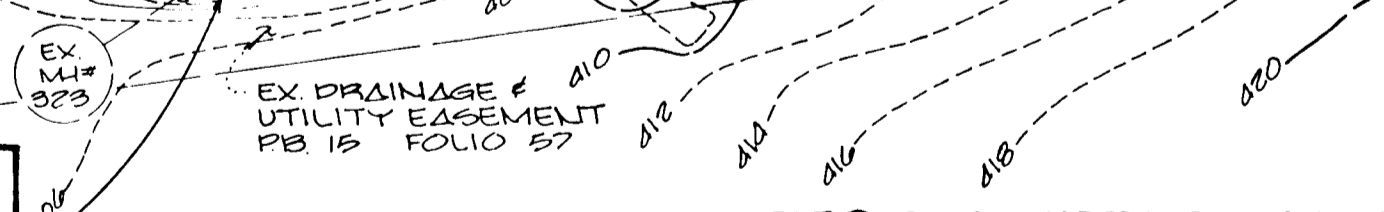
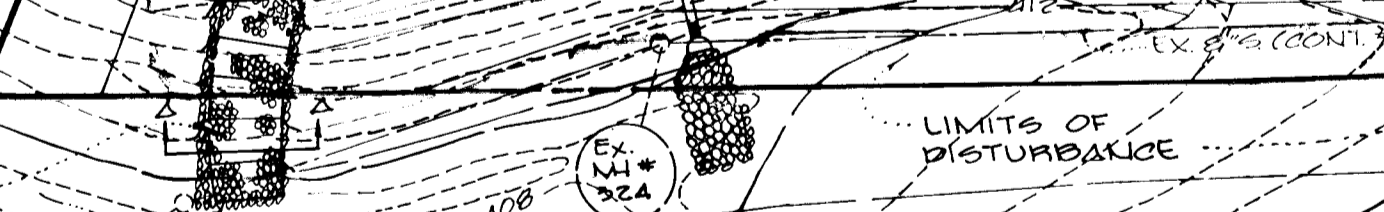
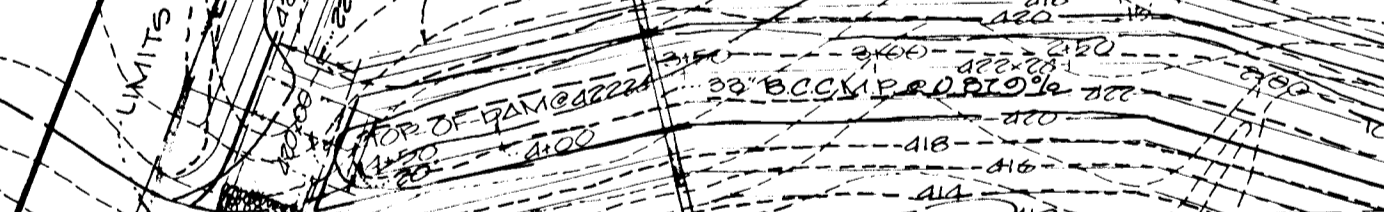
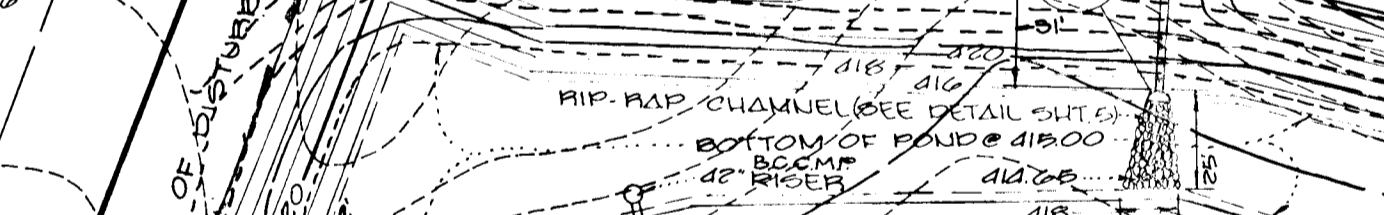
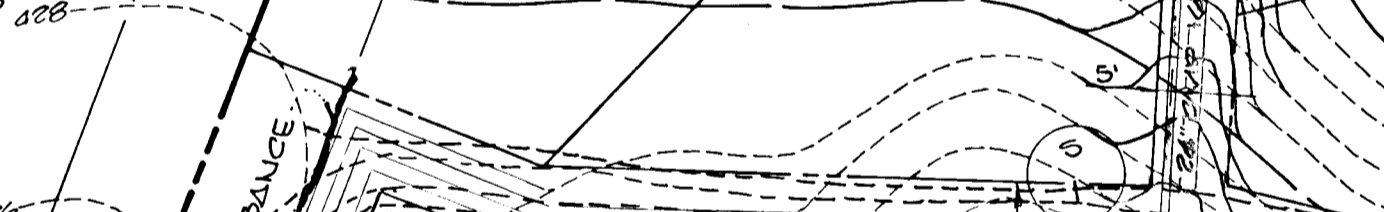
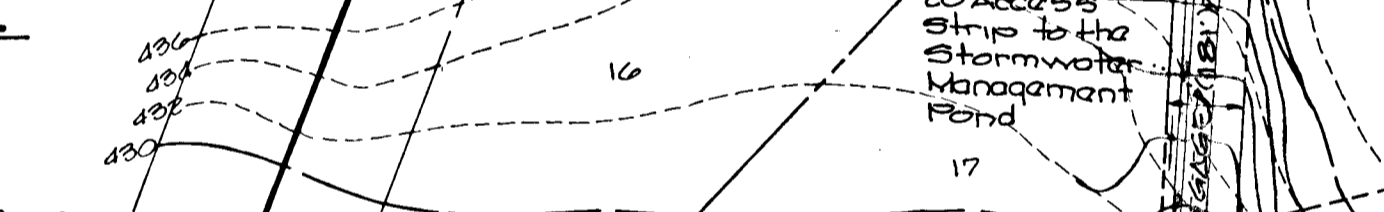
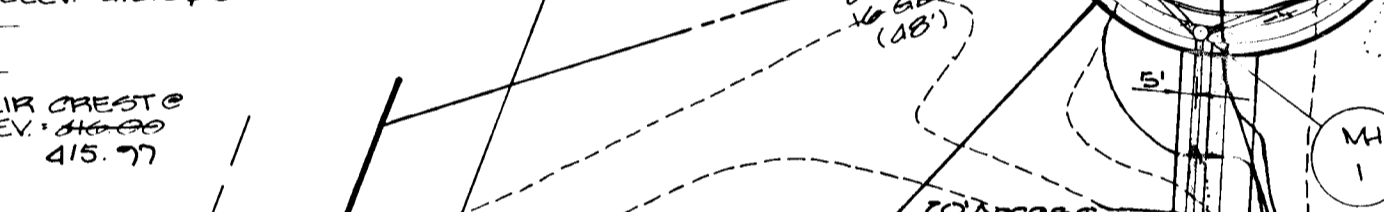
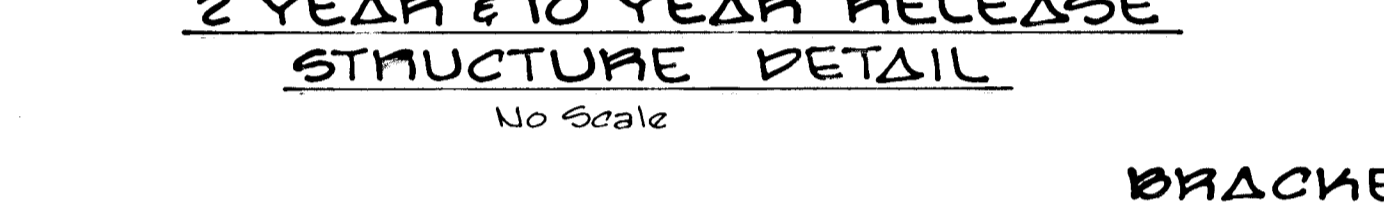
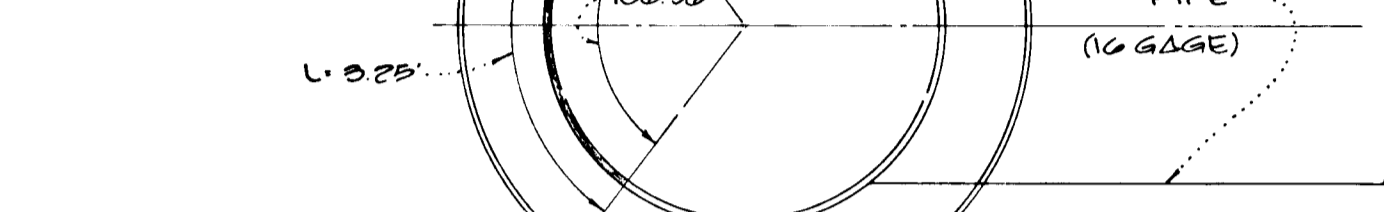
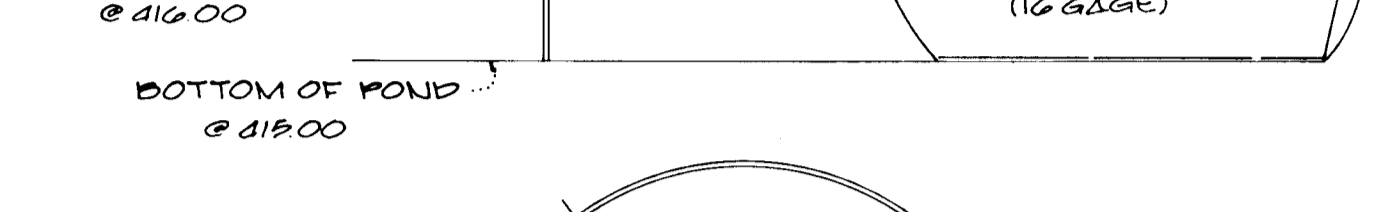
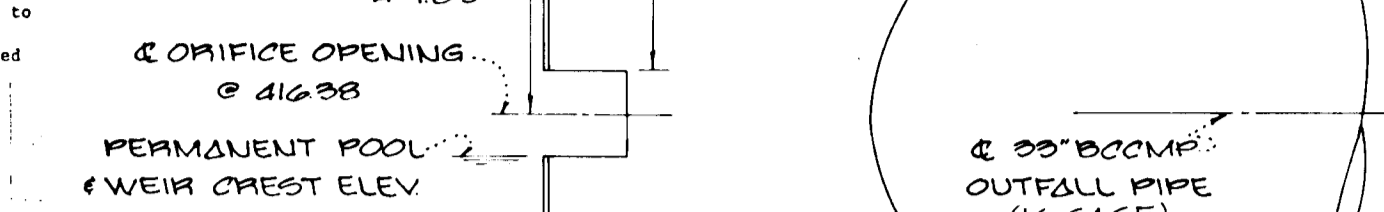
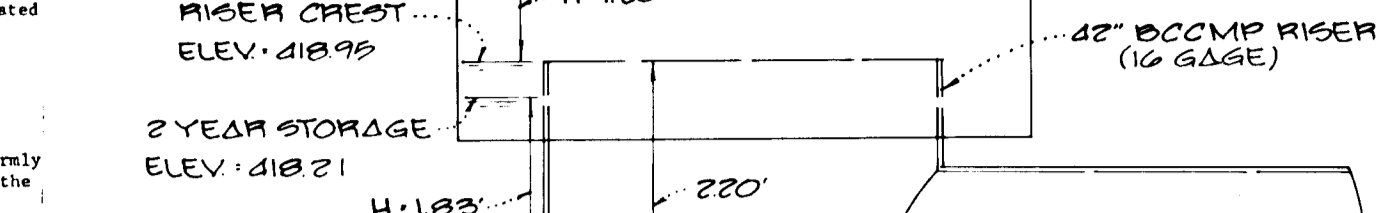
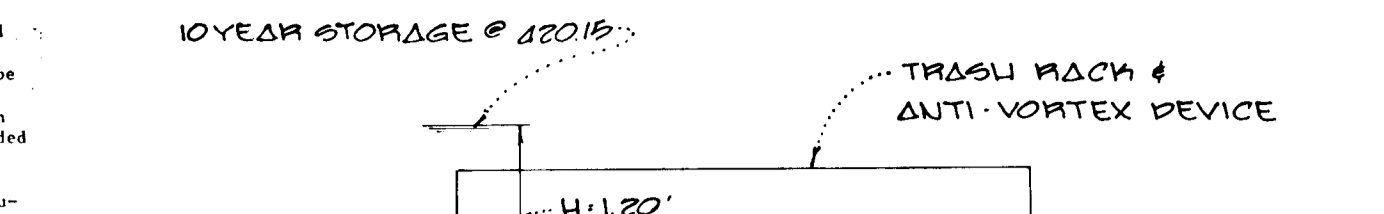
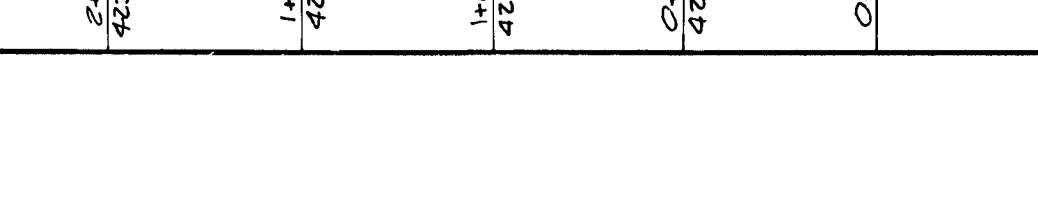
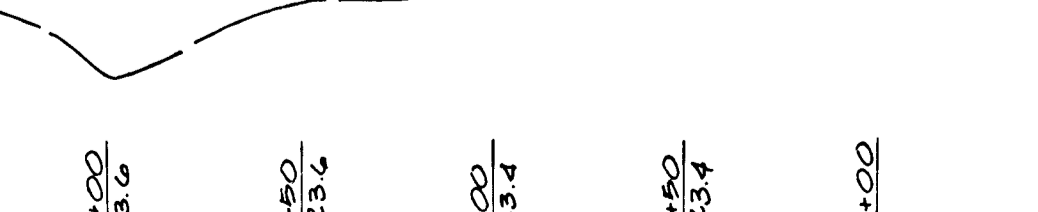
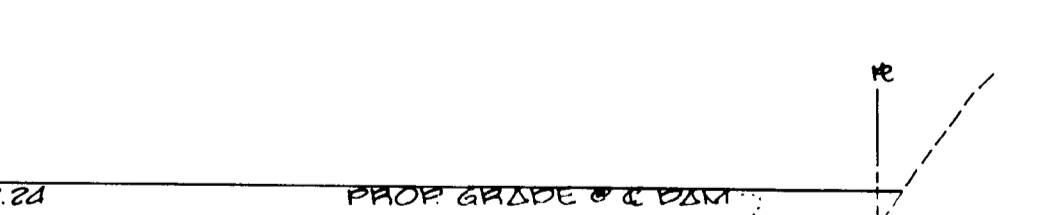
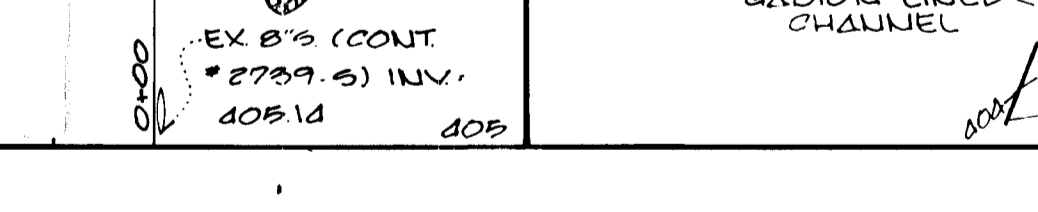
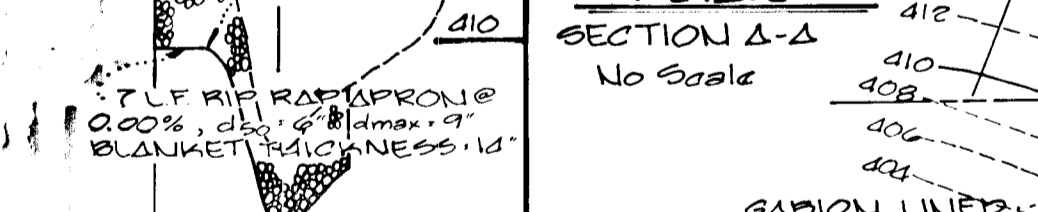
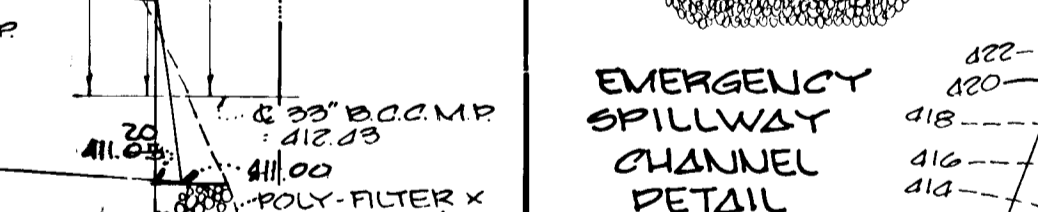
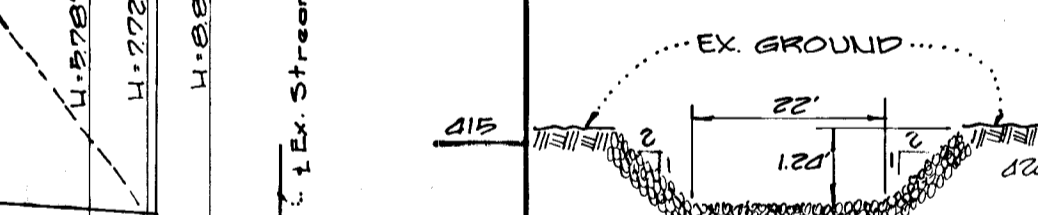
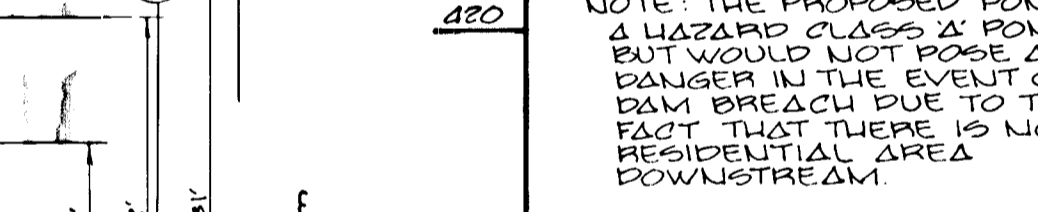
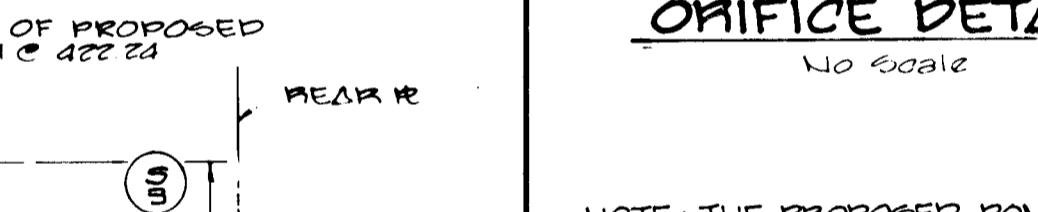
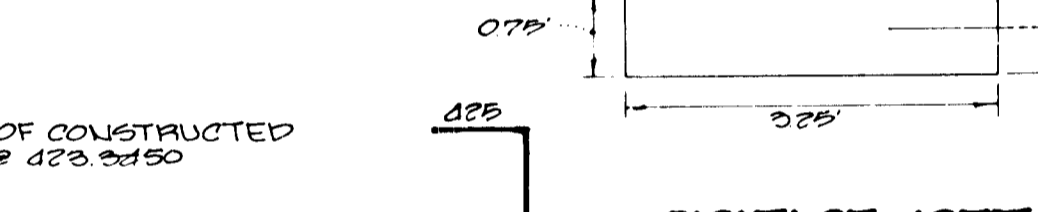
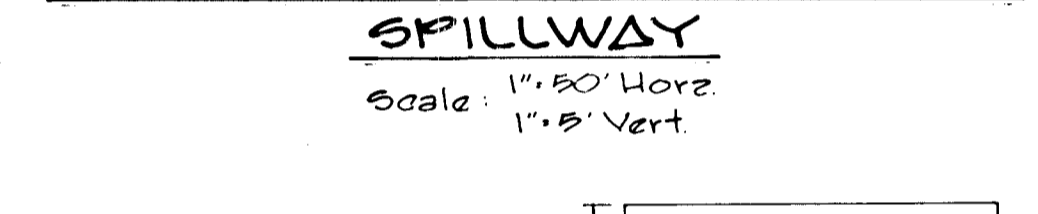
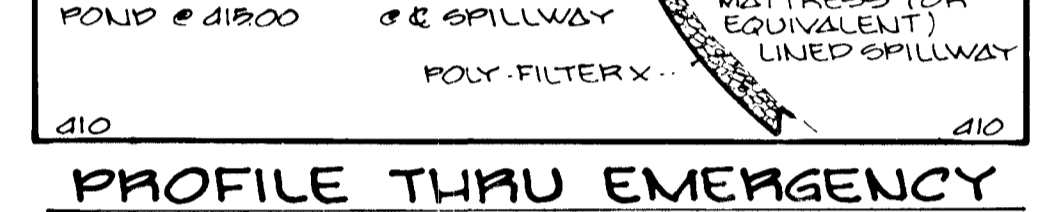
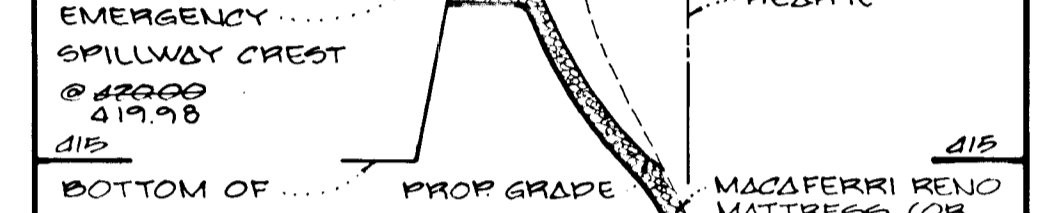
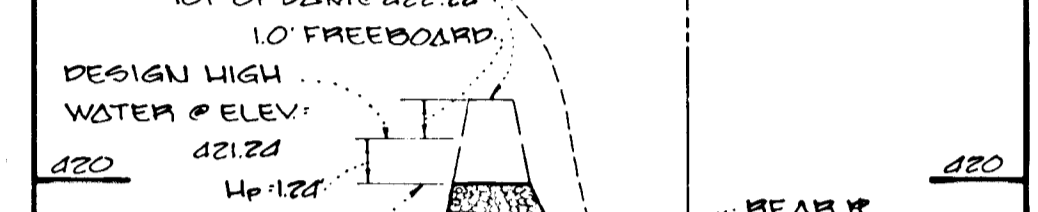
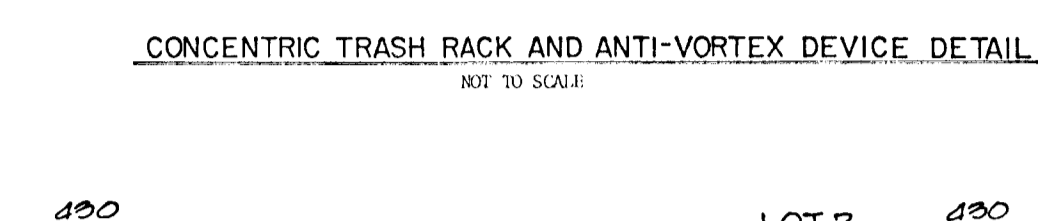
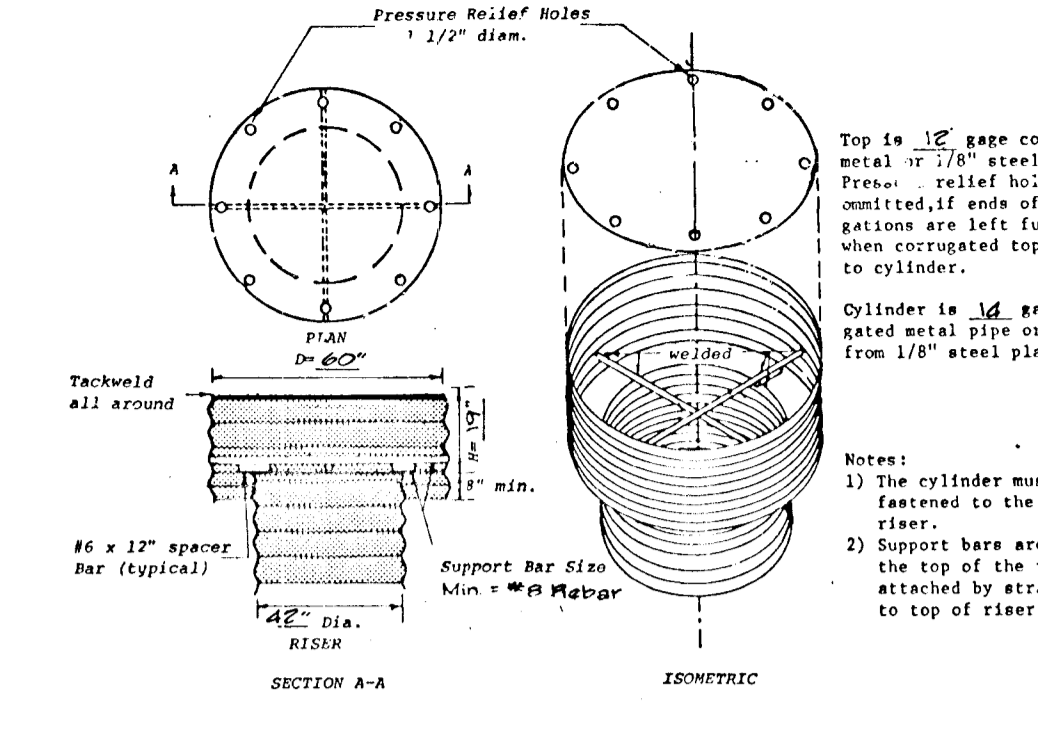
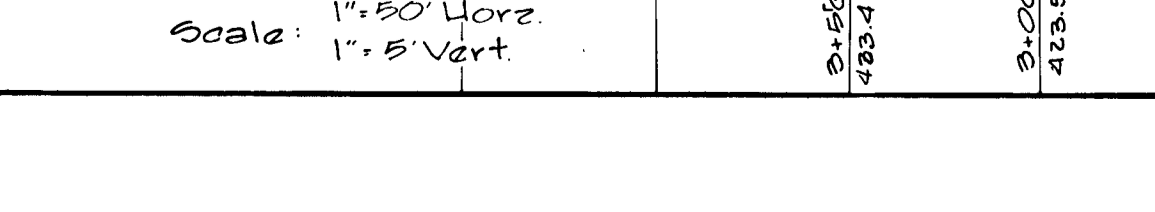
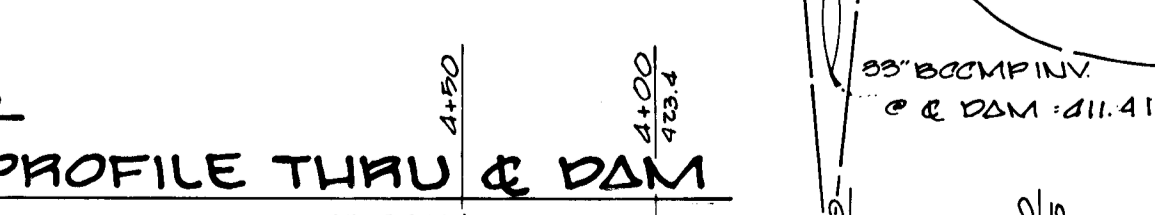
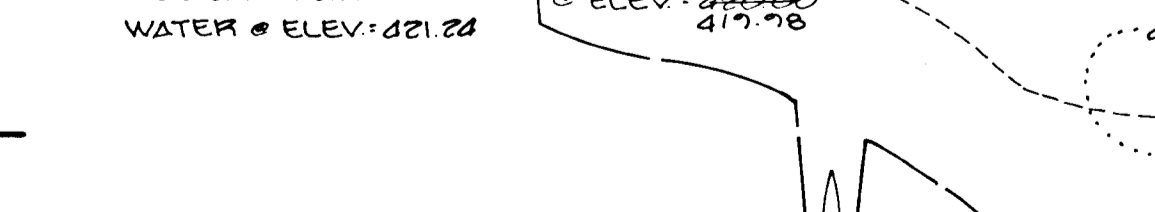
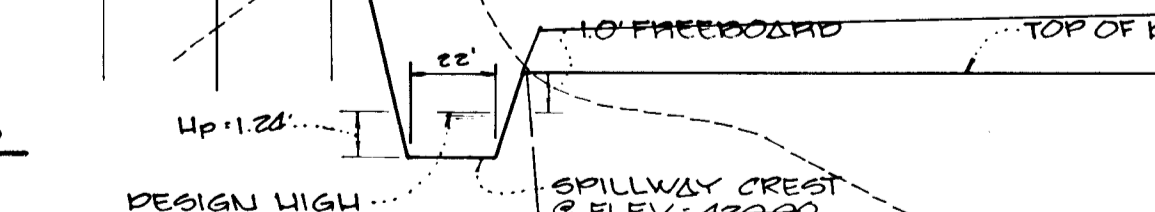
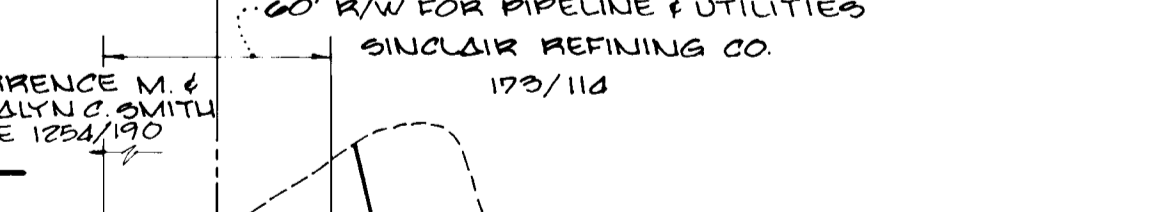
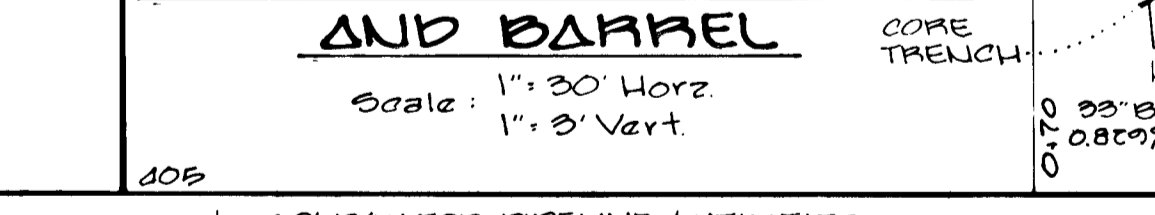
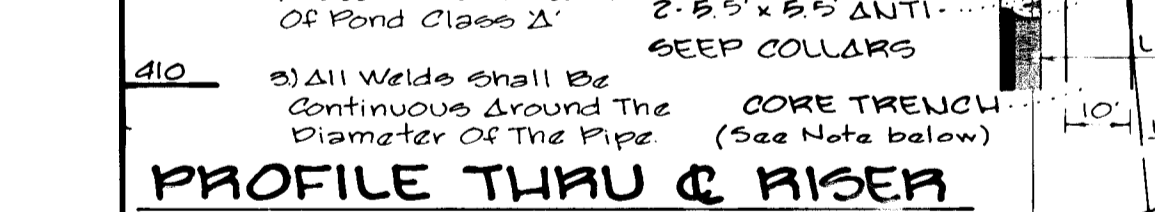
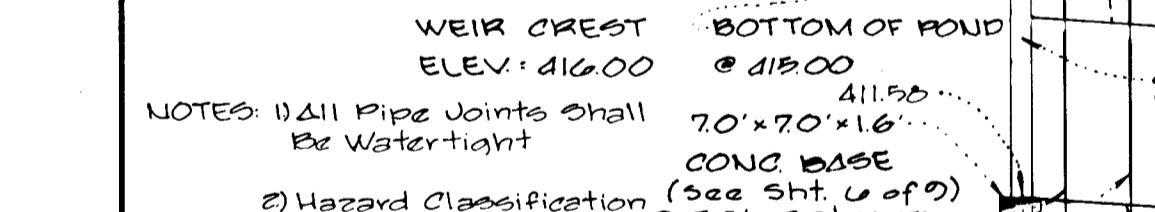
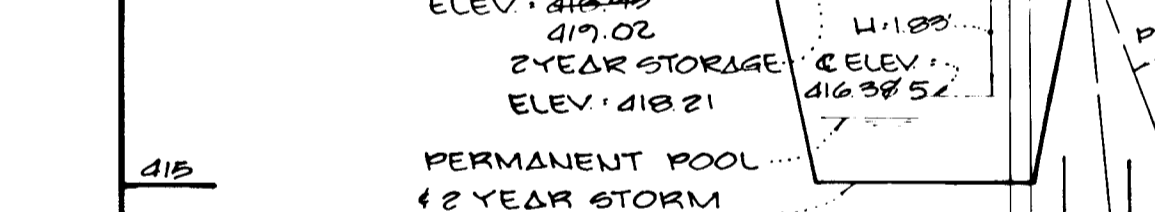
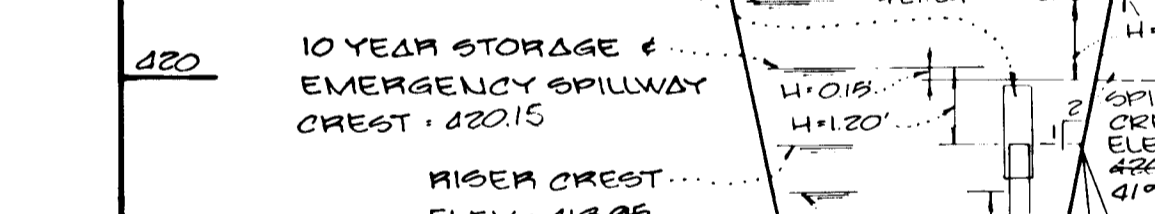
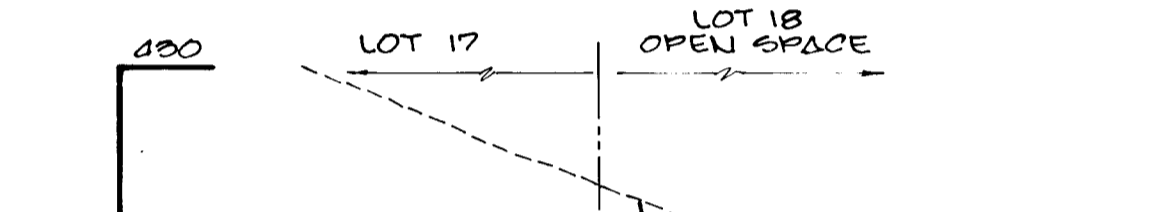
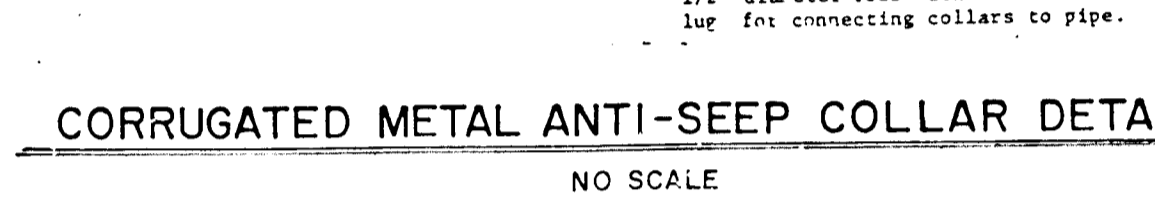
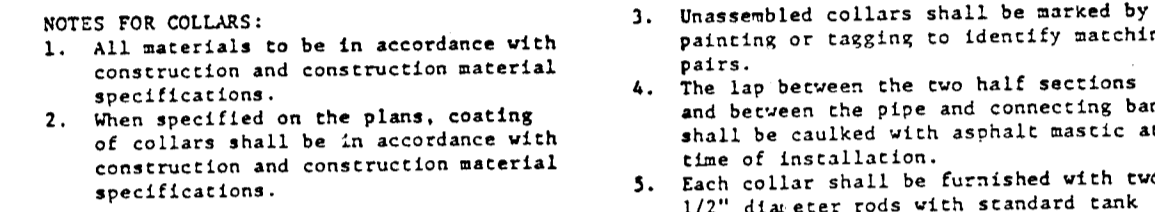
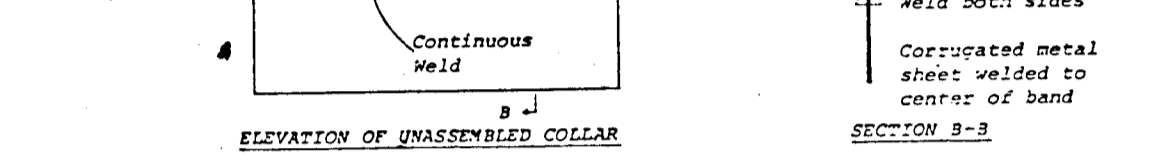
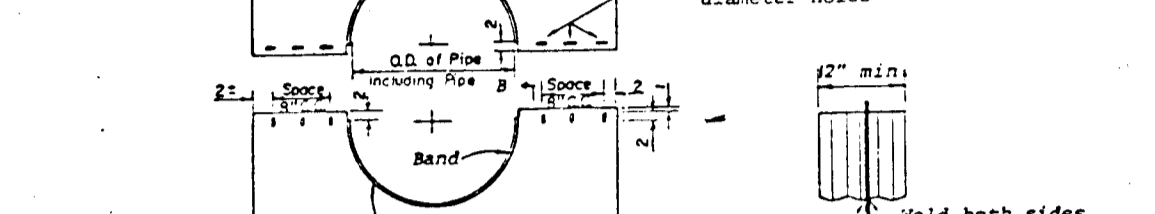
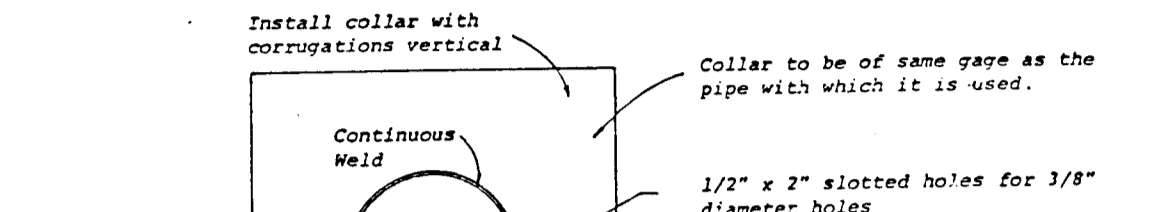
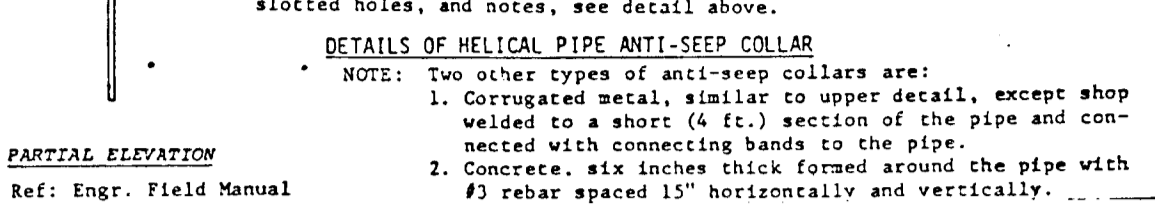
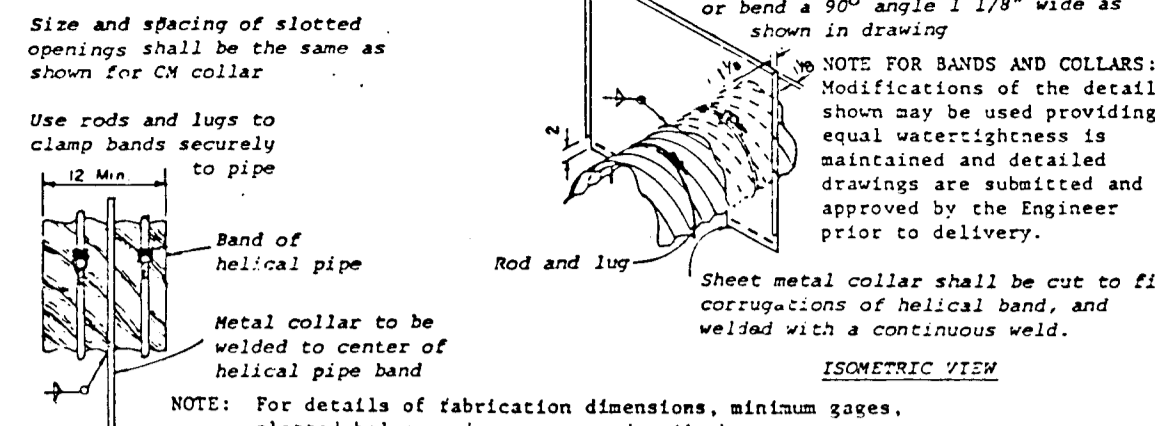
ALL EXPOSED AREAS OF THE EMBANKMENT AND POND SHALL BE STABILIZED BY:

- SPREADING 4" TOPSOIL (INCLUDING BOTTOM OF POND).
- WORKING IN 1 TON OF GROUND LIMESTONE AND 1,000 POUNDS OF 10-10-10 FERTILIZER PER ACRE (INCLUDING BOTTOM OF POND).
- SEED WITH 40 LBS/ACRE OF "KENTUCKY 31" TALL FESCUE, AND 15 LBS./ACRE OF CROWNVECH INOCULATED.
- MULCH WITH 1 1/2 TONS STRAW PER ACRE.
- TIE DOWN MULCH WITH EMULSIFIED ASPHALT @ 348 GALLONS/ACRE.

OPERATION AND MAINTENANCE SPECIFICATIONS

I HEREBY CERTIFY THAT I WILL OPERATE AND MAINTAIN THE COMPLETED POND IN ACCORDANCE WITH THE FOLLOWING:

- PERIODIC INSPECTIONS OF THE FACILITY WILL BE MADE TO IDENTIFY POTENTIAL PROBLEMS THAT MAY AFFECT ITS SAFETY. THESE INSPECTIONS WILL BE MADE AFTER PERIODS OF HEAVY RAINFALL AND AT LEAST TWICE ANNUALLY. INSPECTION REPORTS SHALL BE KEPT UNTIL THE NEXT SUBSEQUENT INSPECTION. INSPECTIONS ITEMS TO BE LOOKED AT INCLUDE:
 - SPILLWAY AND OUTLET WORKS;
 - RIP-RAP;
 - VEGETATIVE COVER;
 - CRACKS IN THE FILL;
 - SLOPE FAILURES; AND
 - SEEPAGE AND OTHER SIGNS OF DISTRESS.
- PROBLEMS IDENTIFIED DURING INSPECTIONS WILL BE PROMPTLY CORRECTED. MAJOR PROBLEMS WILL BE BROUGHT TO THE ATTENTION OF THE SOIL CONSERVATION DISTRICT AND THE DAM SAFETY DIVISION OF THE MARYLAND WATER RESOURCES ADMINISTRATION. AS A VERY MINIMUM, GRASSY VEGETATION WILL BE MAINTAINED IN A DENSE AND HEALTHY STATE, AND WOODY VEGETATION WILL NOT BE PERMITTED TO GROW ON THE EMBANKMENT.



STORM WATER MANAGEMENT POND CERTIFICATION AND APPROVAL

DEVELOPER'S CERTIFICATE
"I HEREBY CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE 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."
Signature of Developer: *Donald R. Reuter, Jr.* DATE: 5-16-88

ENGINEER'S CERTIFICATE
"I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DEVELOPER THAT HE MUST PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN AS-BUILT PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION."
Signature of Engineer: *Charles J. Crovo Sr.* DATE: 5/16/88

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL.
Signature: *James M. Nelson* DATE: 5/24/88
U.S. SOIL CONSERVATION SERVICE

THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.
Signature: *Robert W. Zickler* DATE: 5/24/88
HOWARD SOIL CONSERVATION DISTRICT

APPROVED: OFFICE OF PLANNING AND ZONING
Signature: *James J. Langley* DATE: 11-19-88
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Signature: *Donald J. Gorman* DATE: 10/10/88
CHIEF, LAND DEVELOPMENT DIVISION

Signature: *Gene W. Schuch* DATE: 10/11/88
CHIEF, BUREAU OF HIGHWAYS

Signature: *W. Paul & Roy* DATE: 10-13-88
CHIEF, BUREAU OF ENGINEERING

POND CONSTRUCTION CERTIFICATION
I CERTIFY THAT UPON COMPLETION OF CONSTRUCTION I WILL BE RESPONSIBLE FOR THE OPERATION AND MAINTENANCE (OMM) OF THE SMALL POND. OMM WILL BE PERFORMED BY ME IN ACCORDANCE WITH THE SPECIFICATIONS ON THIS PLAN. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS OF THE POND AT THE SITE AND LOCAL AGENCIES.
Signature: *Donald R. Reuter, Jr.* DATE: 5-16-88

Signature: *Charles J. Crovo Sr.* DATE: 5/16/88
CHARLES J. CROVO SR. DATE

Signature: *Charles J. Crovo Sr.* DATE: 5/16/88
CHARLES J. CROVO SR. DATE

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CHARLES J. CROVO SR. DATE

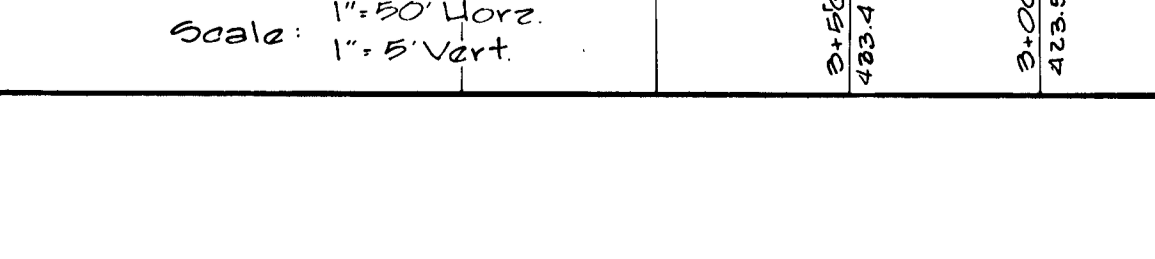
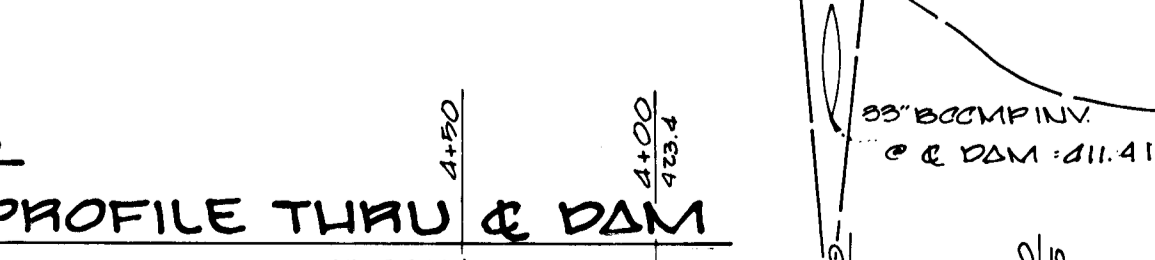
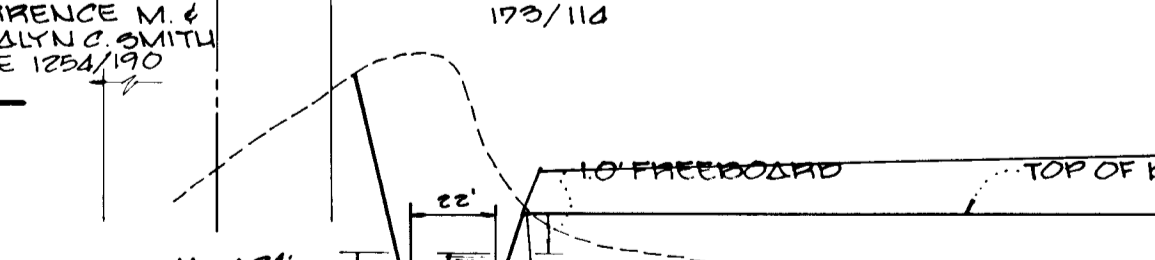
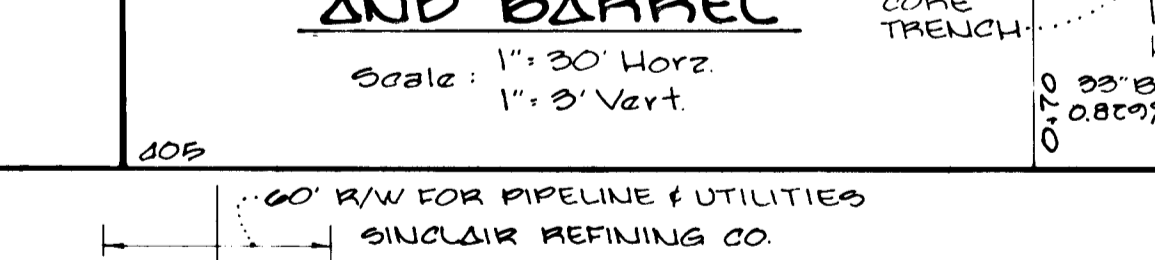
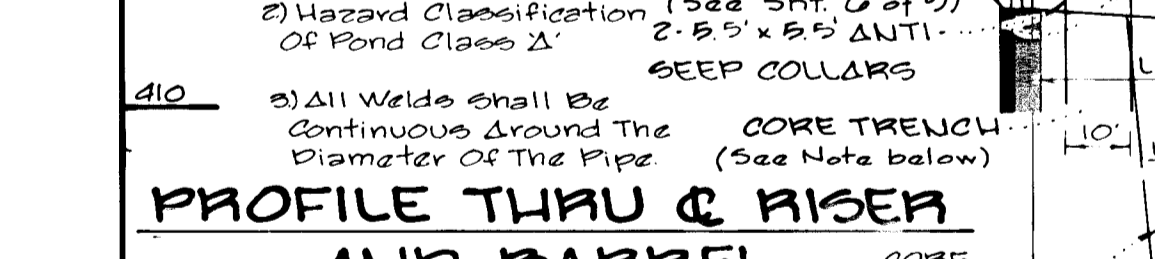
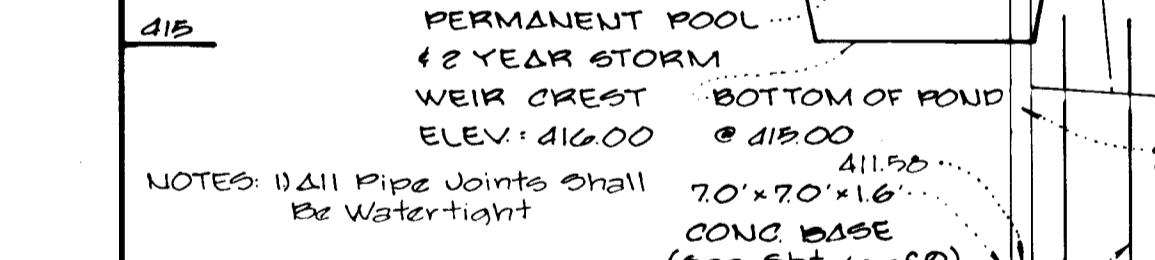
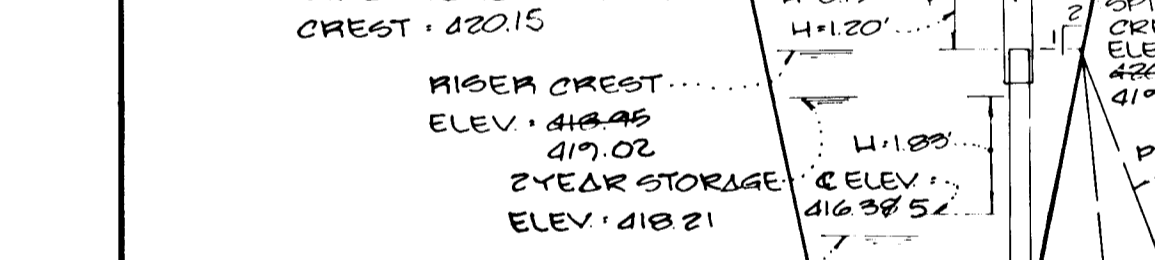
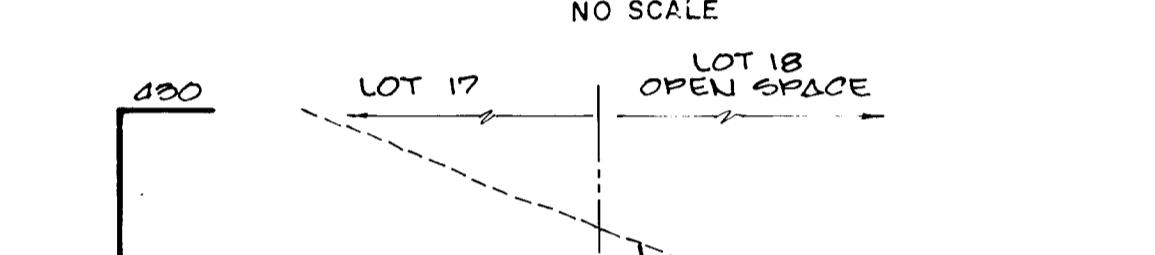
Signature: *Charles J. Crovo Sr.* DATE: 5/16/88
CHARLES J. CROVO SR. DATE

Signature: *Charles J. Crovo Sr.* DATE: 5/16/88
CHARLES J. CROVO SR. DATE

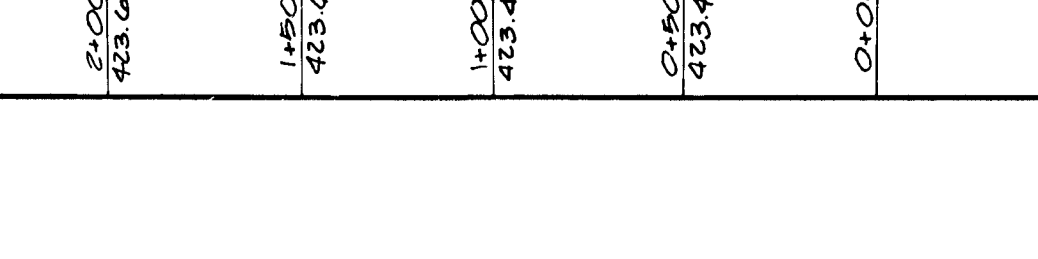
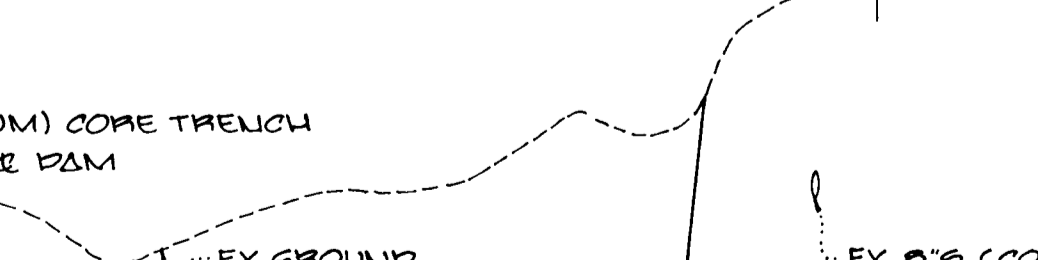
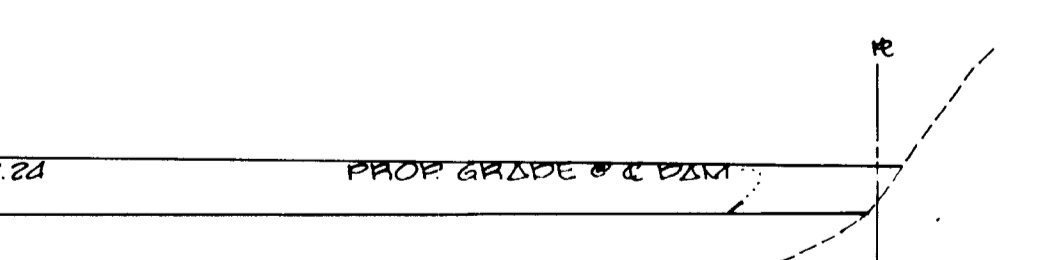
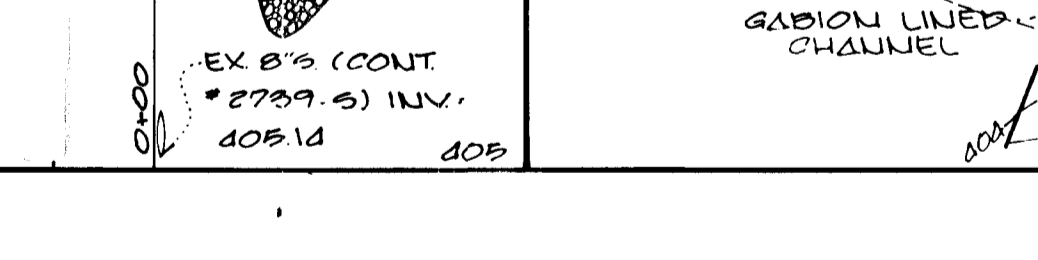
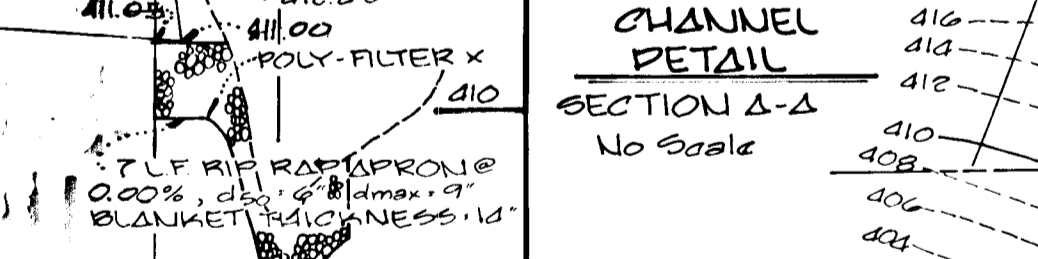
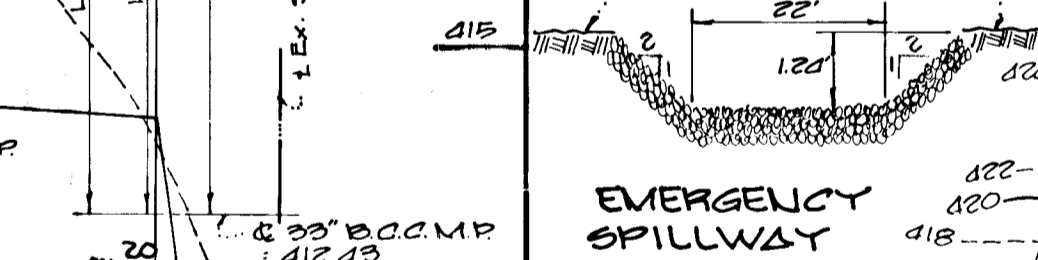
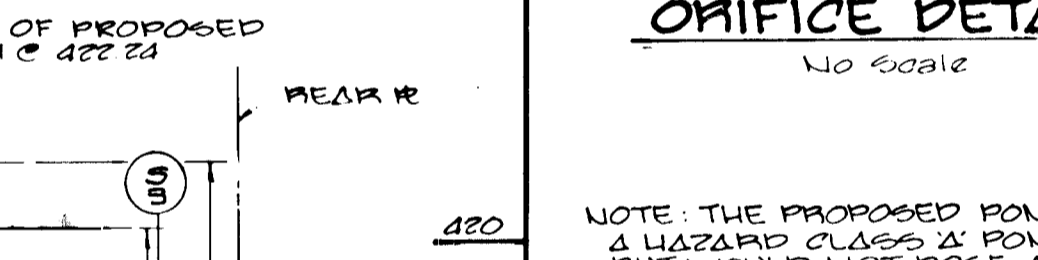
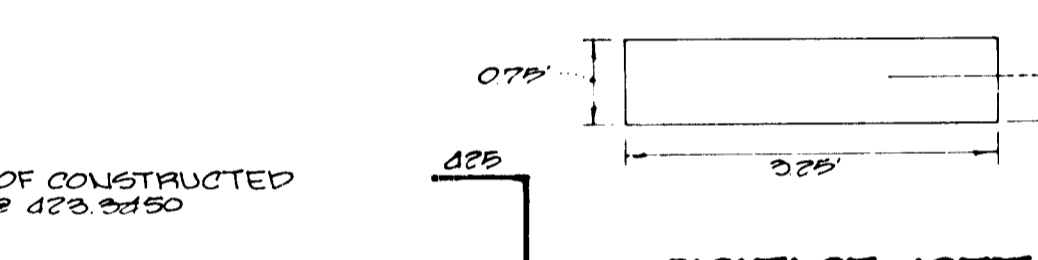
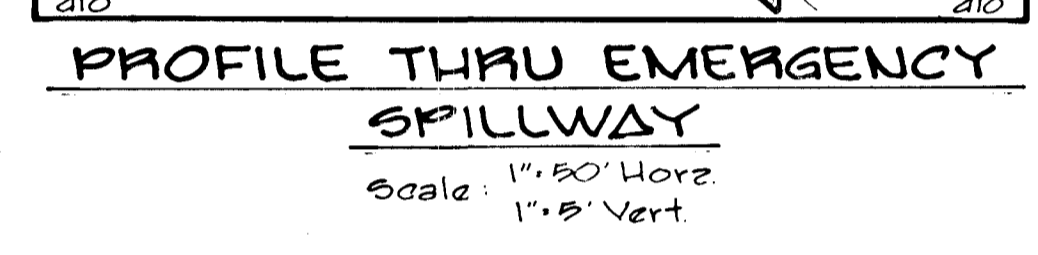
Signature: *Charles J. Crovo Sr.* DATE: 5/16/88
CHARLES J. CROVO SR. DATE

Signature: *Charles J. Crovo Sr.* DATE: 5/16/88
CHARLES J. CROVO SR. DATE

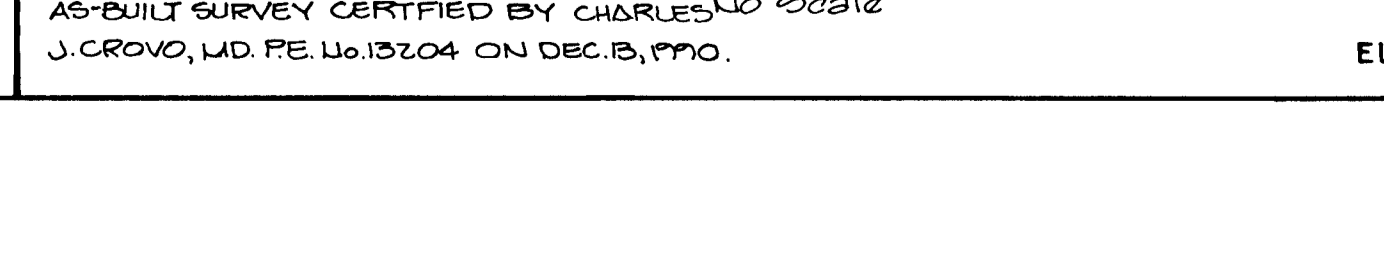
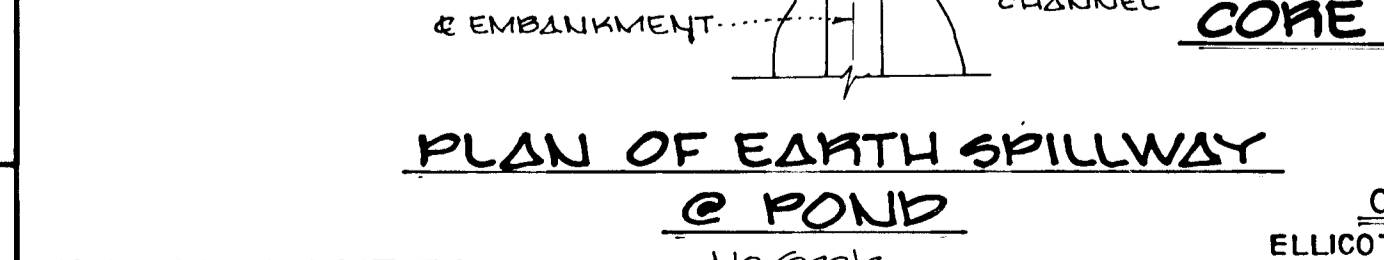
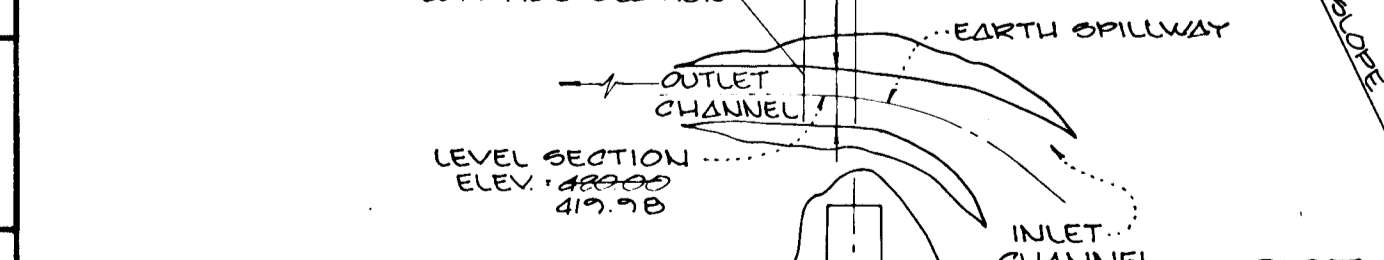
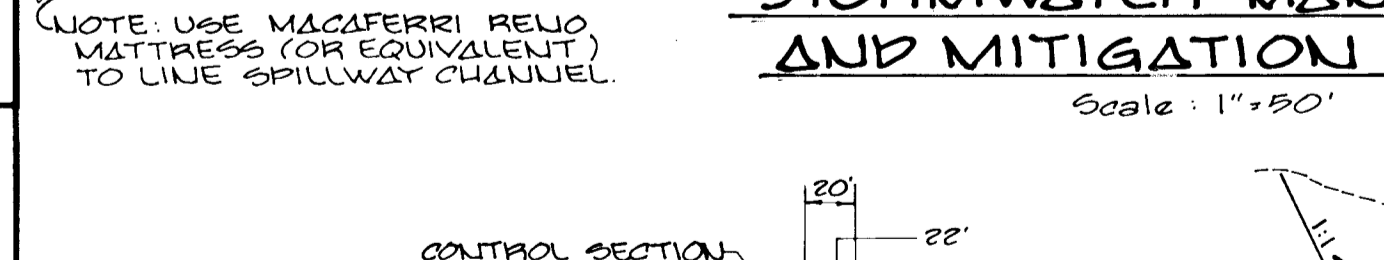
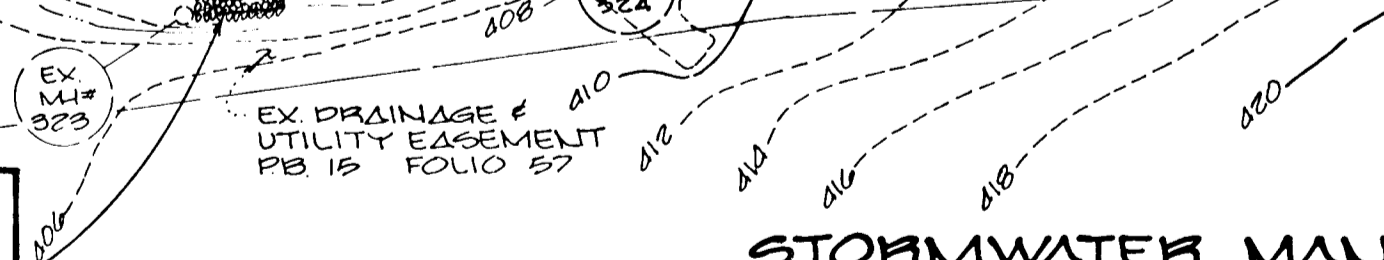
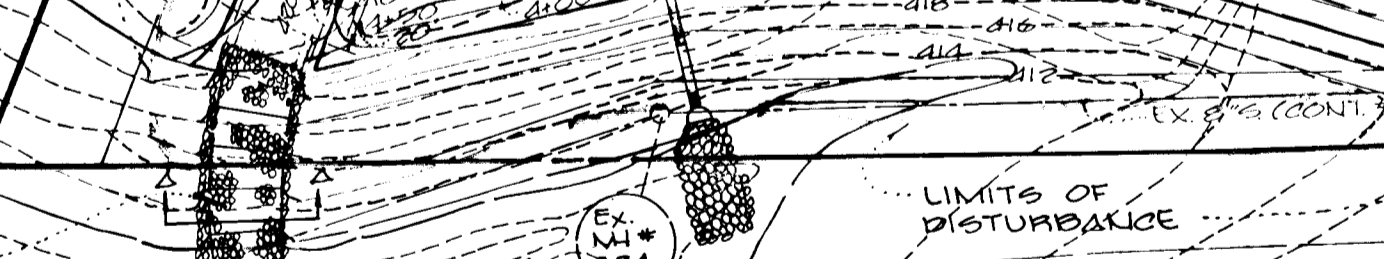
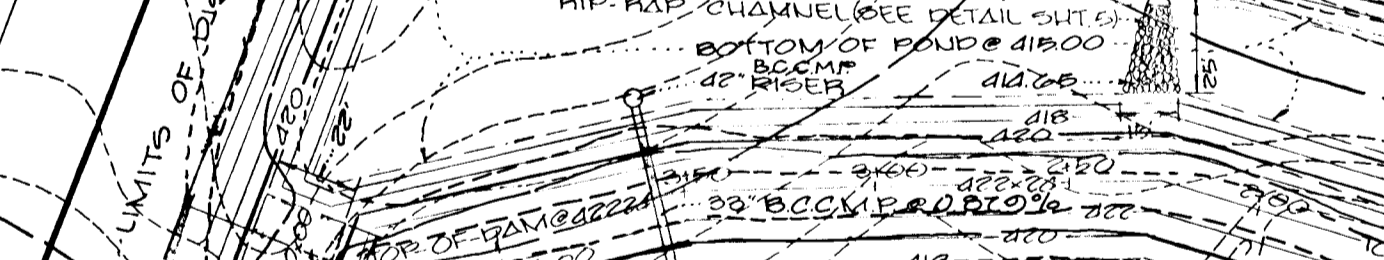
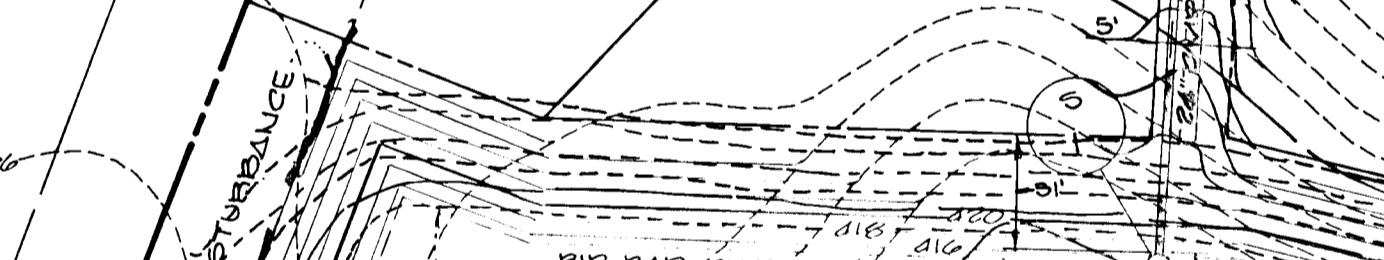
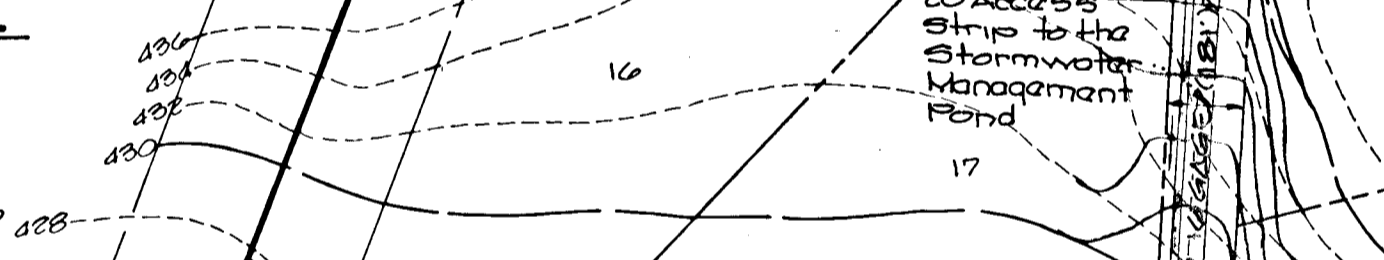
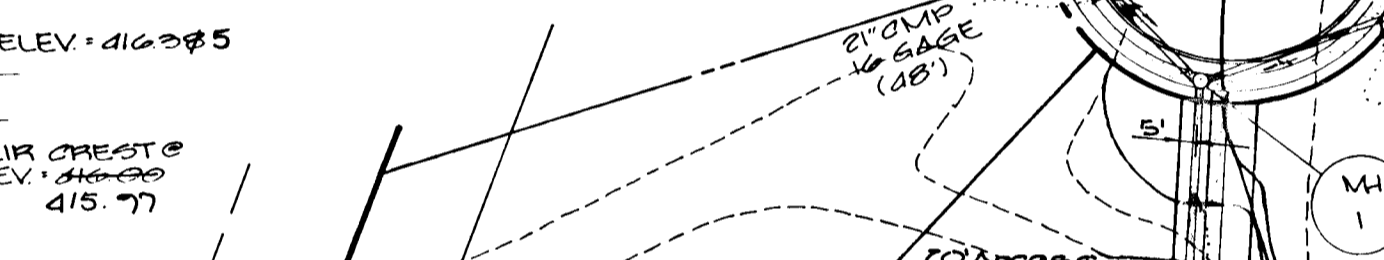
CORRUGATED METAL ANTI-SEEP COLLAR DETAILS



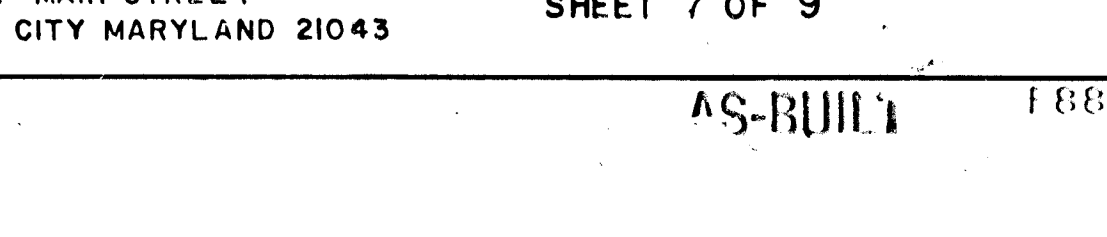
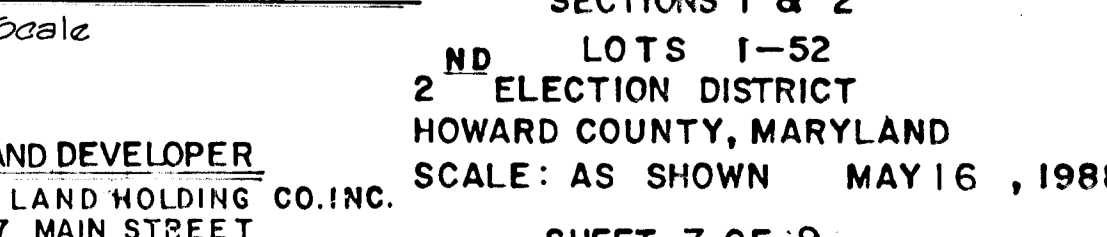
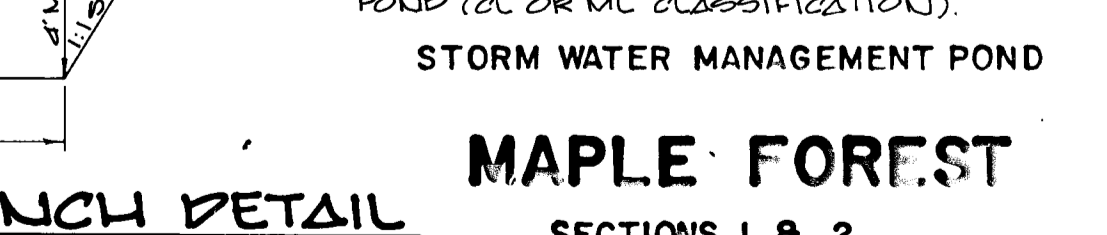
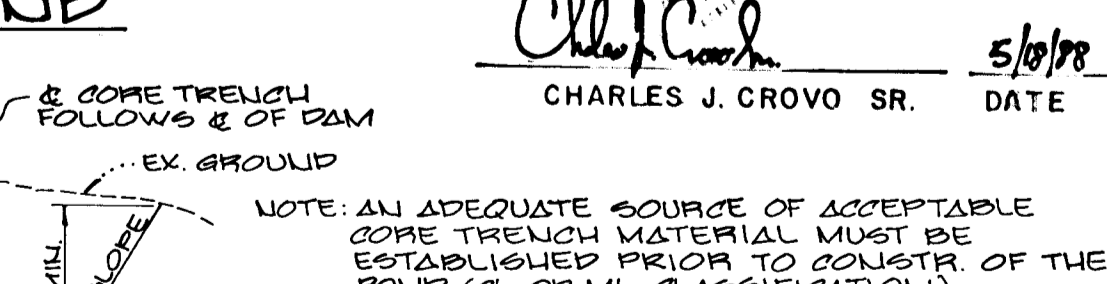
PROFILE THRU EMERGENCY SPILLWAY



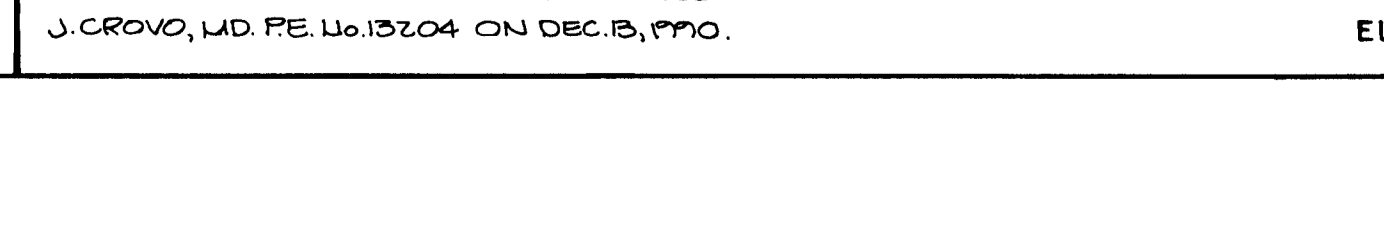
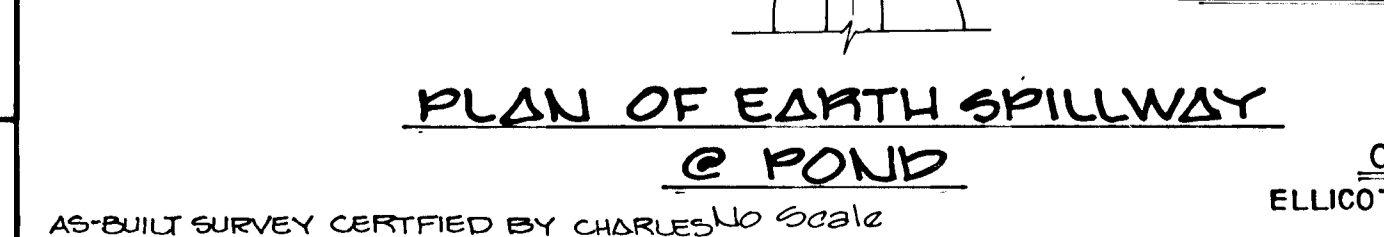
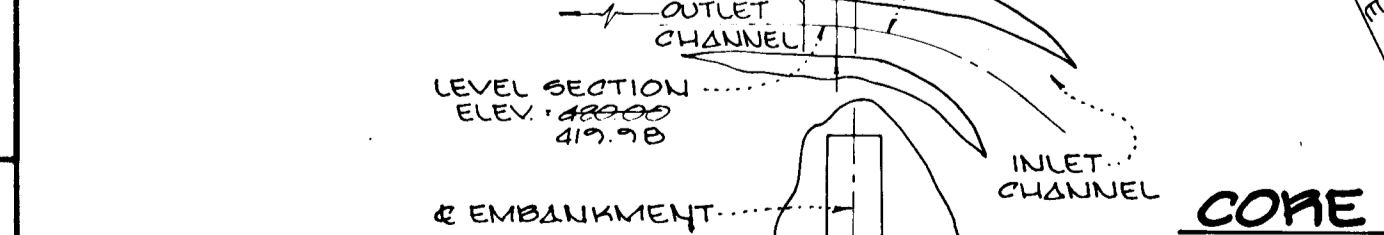
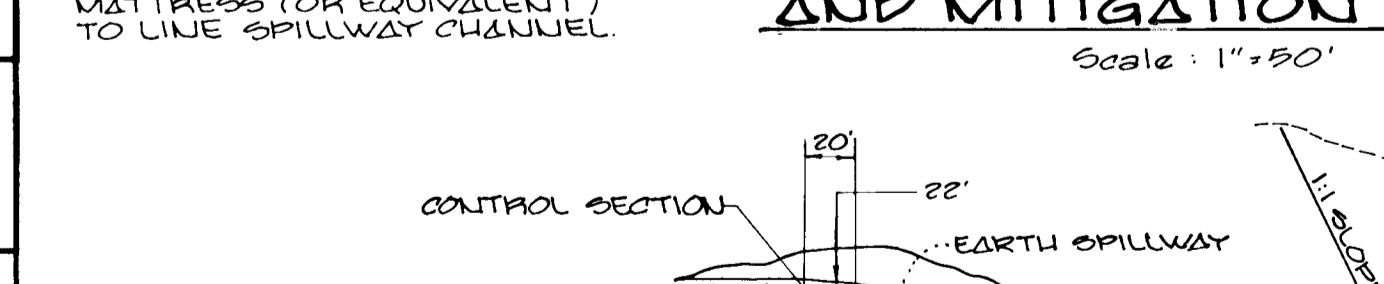
2 YEAR & 10 YEAR RELEASE STRUCTURE DETAIL



STORMWATER MANAGEMENT AND MITIGATION POND



PLAN OF EARTH SPILLWAY @ POND

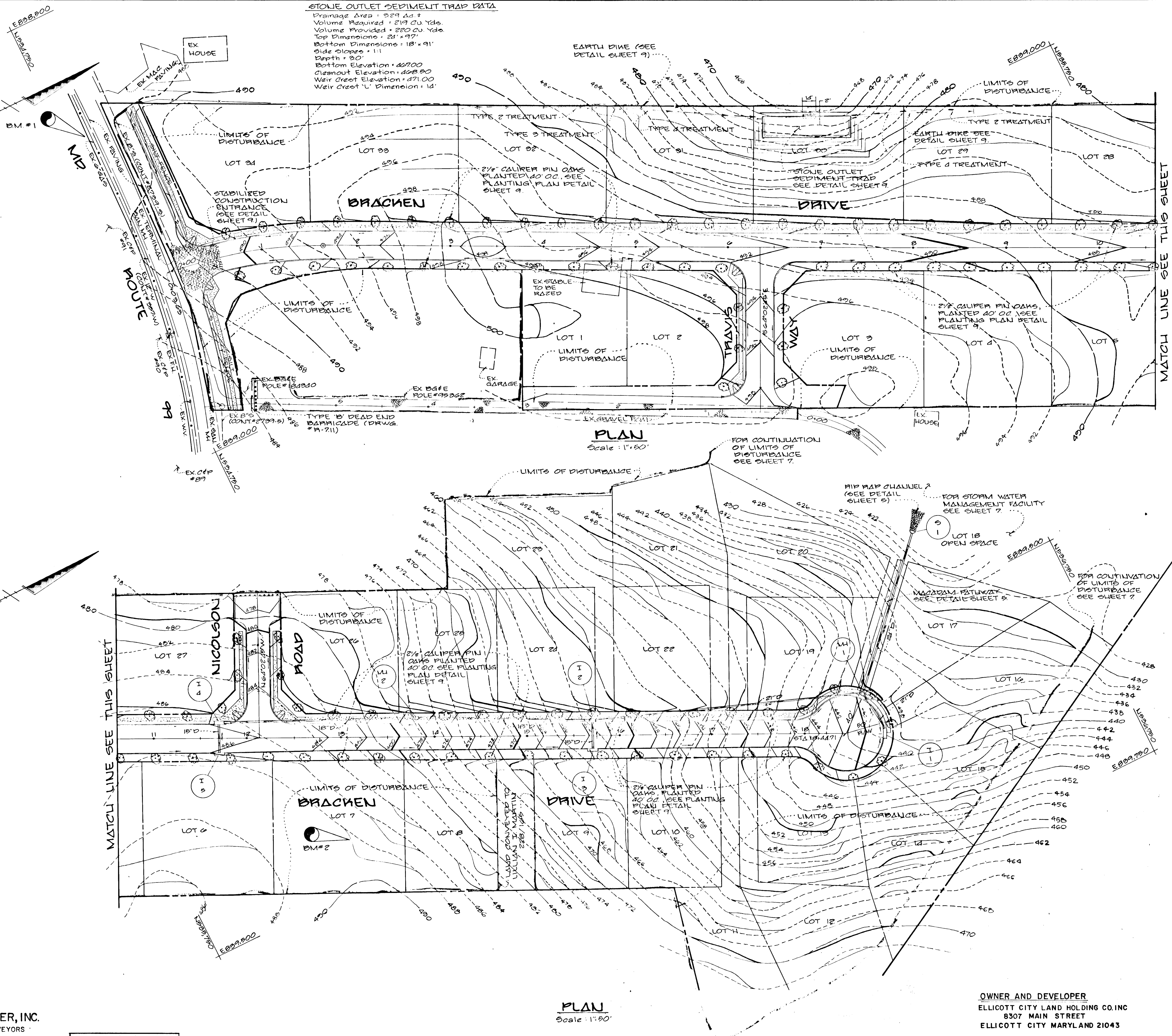


MAPLE FOREST

SECTIONS 1 & 2
ND LOTS 1-52
2ND ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN MAY 16, 1988
SHEET 7 OF 9

OWNER AND DEVELOPER
ELICOTT CITY LAND HOLDING CO. INC.
8307 MAIN STREET
ELICOTT CITY MARYLAND 21043

1388



STONE OUTLET SEDIMENT TRAP DATA
 Drainage Area = 229 Sq Ft
 Volume Required = 219 Cu Yds.
 Volume Provided = 220 Cu Yds.
 Top Dimensions = 24' x 9'
 Bottom Dimensions = 18' x 9'
 Side Slopes = 1:1
 Depth = 20"
 Bottom Elevation = 457.00
 Cleanout Elevation = 458.50
 Weir Crest Elevation = 471.00
 Weir Crest 'L' Dimension = 14'

EARTH DIKE (SEE
 DETAIL SHEET 9)

PLAN
 Scale: 1"=50'

PLAN
 Scale: 1"=50'

ENGINEER'S CERTIFICATE
 I HEREBY 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.
 Signature of Engineer: *Charles J. Crovo Sr.* DATE: 5/18/88

DEVELOPER'S CERTIFICATE
 I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND 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 SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY.
 Signature of Developer: *James M. Wilson* DATE: 5-16-88

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.
 Signature: *James M. Wilson* DATE: 5/24/88
 DISTRICT: HOWARD SOIL CONSERVATION DISTRICT

THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
 Signature: *Robert W. Ziehm* DATE: 5/24/88
 DISTRICT: HOWARD SOIL CONSERVATION DISTRICT

APPROVED: OFFICE OF PLANNING AND ZONING
 Signature: *Joseph V. McCarty* DATE: 5-18-88
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

APPROVED: DEPARTMENT OF PUBLIC WORKS
 Signature: *William S. Pugh* DATE: 10-12-88
 CHIEF, BUREAU OF ENGINEERING

APPROVED: DEPARTMENT OF PUBLIC WORKS
 Signature: *William S. Pugh* DATE: 5/18/88
 CHIEF, BUREAU OF HIGHWAYS

APPROVED: DEPARTMENT OF PUBLIC WORKS
 Signature: *Franklin J. Jones* DATE: 10/18/88
 CHIEF, LAND DEVELOPMENT DIVISION

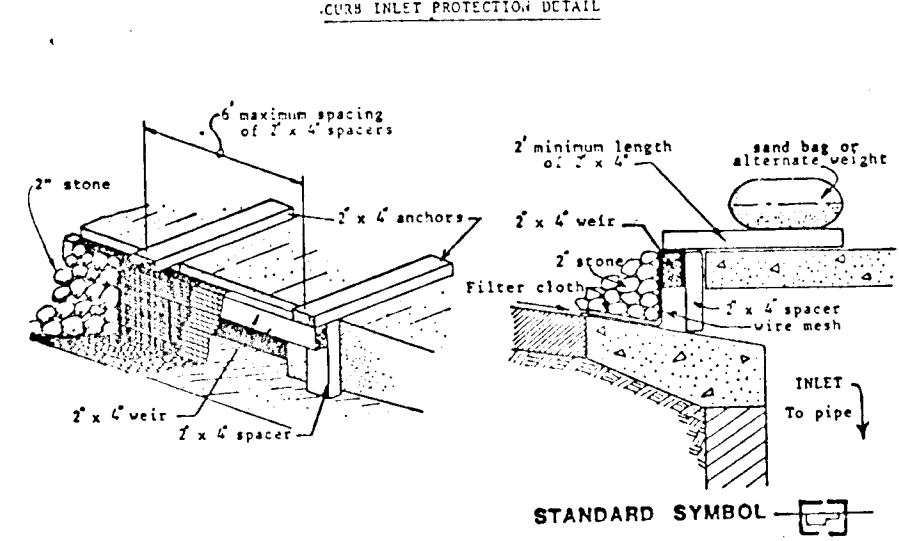
Charles J. Crovo Sr. 5/18/88
 CHARLES J. CROVO SR. DATE

STREET TREE, GRADING, AND
 SEDIMENT CONTROL PLAN
MAPLE FOREST
 SECTIONS 18 & 2
 LOTS 1-52
 2ND ELECTION DISTRICT
 HOWARD COUNTY MARYLAND
 SCALE: AS SHOWN MAY 20, 1988
 SHEET 8 OF 9

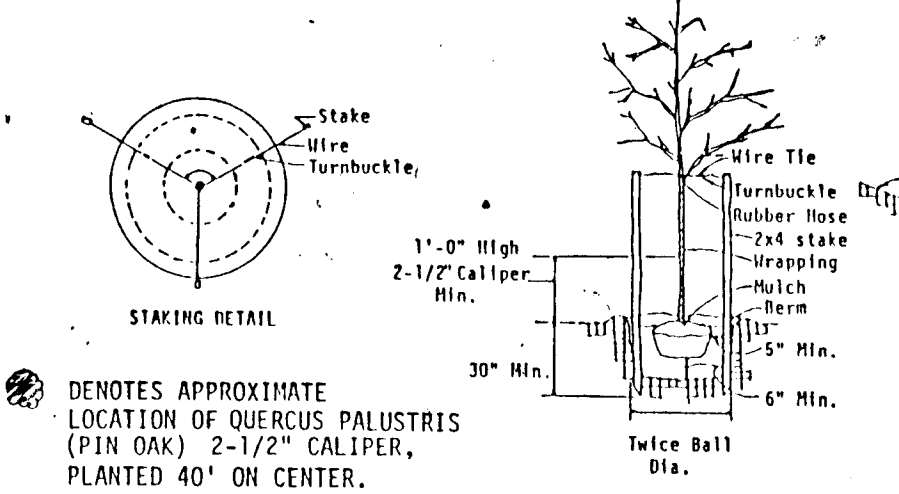
OWNER AND DEVELOPER
 ELLICOTT CITY LAND HOLDING CO. INC
 8307 MAIN STREET
 ELLICOTT CITY MARYLAND 21043

FISHER, COLLINS AND CARTER, INC.
 CONSULTING ENGINEERS AND LAND SURVEYORS
 8388 COURT AVENUE
 ELLICOTT CITY, MARYLAND 21043
 TELEPHONE: (301) 461-2855

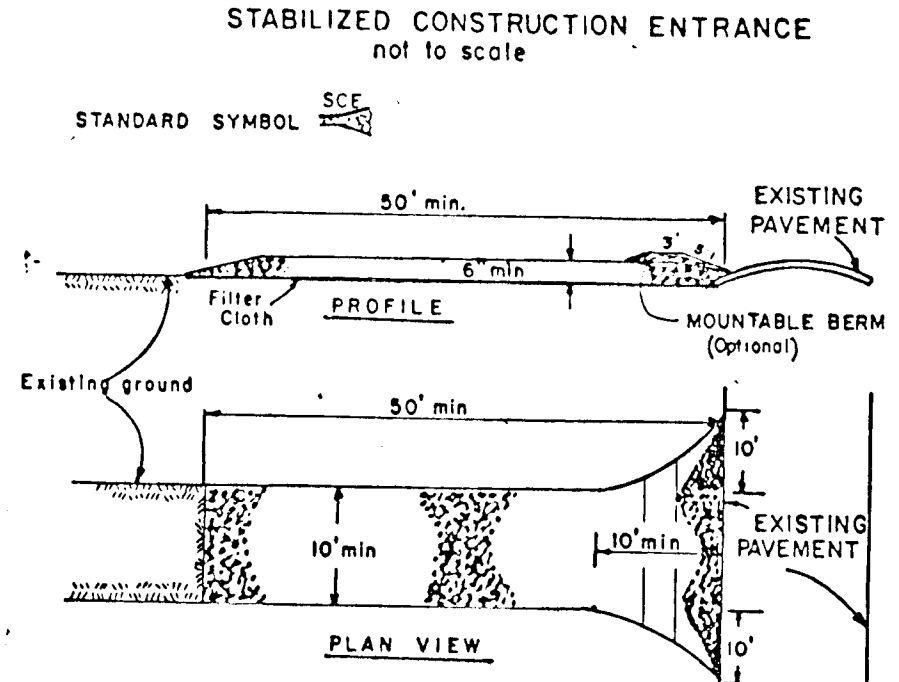
Revised 10/30/89 by M.Y.
 Changed Grading on
 Nicholson Rd.



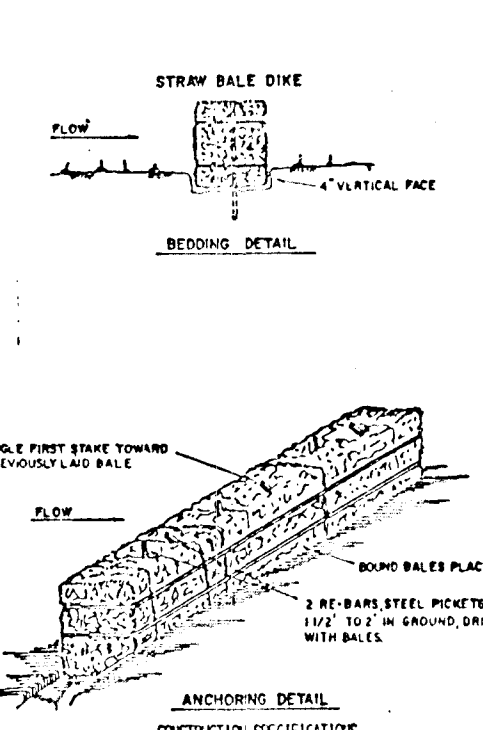
- 1. Curb Inlet Protection.**
- Attach a continuous piece of wire mesh (30" min. width by throat length plus 4") to the 2" x 4" weir (weir throat length plus 2") as shown on the standard drawing.
 - Place a piece of approved filter cloth (40-85 sieve) of the same dimensions as the wire mesh over the wire mesh and securely attach to the 2" x 4" weir.
 - Securely nail the 2" x 4" weir to 1" long vertical spacers to be located between the weir and inlet face (max. 6" apart).
 - Place the assembly against the inlet throat and nail (minimum 2" lengths of 2" x 4" to the top of the weir at spacer locations. Three 2" x 4" anchors shall extend across the inlet top and be held in place by sandbags or alternate weight.
 - The assembly shall be placed so that the end spacers are a minimum 1' beyond both ends of the throat opening.
 - Form the wire mesh and filter cloth to the concrete gutter and against the face of curb on both sides of the inlet. Place clean 2" stone over the wire mesh and filter fabric in such a manner as to prevent water from entering the inlet under or around the filter cloth.
 - This type of protection must be inspected frequently and the filter cloth and stone replaced when clogged with sediment.
 - Assure that storm flow does not bypass inlet by installing temporary earth or asphalt dikes directing flow into inlet.



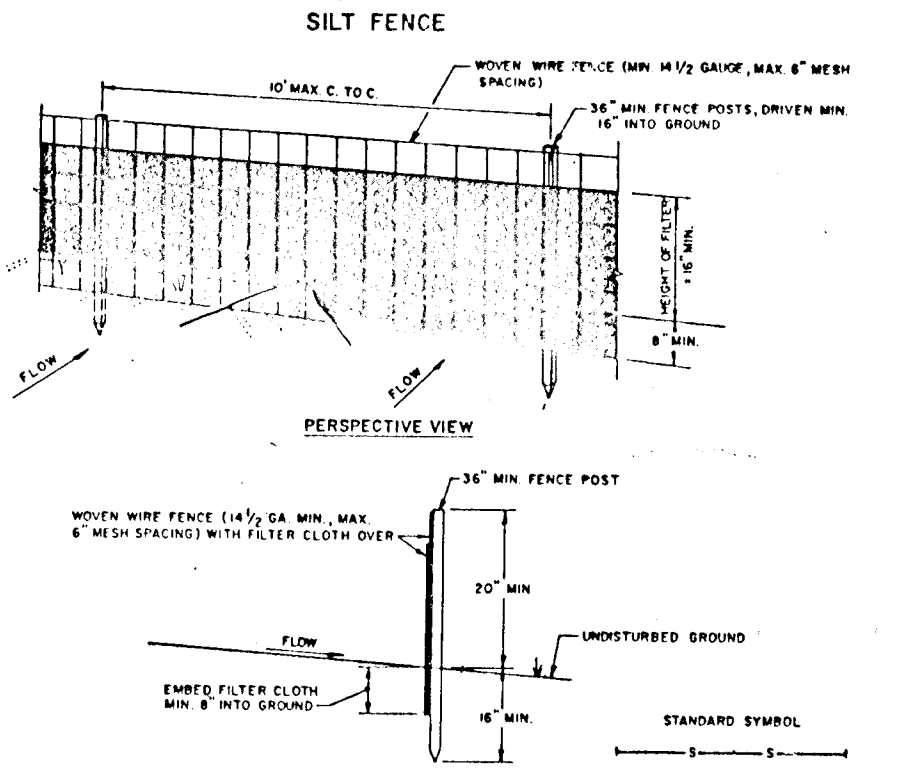
NOTE: CONTRACTOR SHALL VERIFY LOCATION OF UNDERGROUND UTILITIES PRIOR TO DIGGING. FINAL LOCATIONS OF TREES MAY BE ADJUSTED SLIGHTLY TO ACCOMMODATE FIELD CONDITIONS. PLANTING PROCEDURES SHALL COMPLY WITH "LANDSCAPE SPECIFICATIONS FOR BALTIMORE-WASHINGTON METROPOLITAN AREAS". SUBSTITUTIONS TO THE ABOVE SPECIES MAY BE PERMITTED, PROVIDED THAT THE PLANTING IS IN ACCORDANCE WITH THE STREET TREE AND LANDSCAPE REQUIREMENTS AS SPECIFIED IN SECTION 16.131 OF THE HOWARD COUNTY SUBDIVISION REGULATIONS.



- CONSTRUCTION SPECIFICATIONS**
- Stone Size - Use 2" stone, or recycled or recycled concrete equivalent.
 - Length - As required, but not less than 50 feet except on a single residence lot where a 30 foot minimum length would apply.
 - Thickness - Not less than six (6) inches.
 - Width - Ten (10) foot minimum, but not less than the full width at points where ingress or egress occurs.
 - Filter Cloth - Will be placed over the entire area prior to placing of stone. Filter will not be required on a single family residence lot.
 - Surface Water - All surface water flowing or diverted toward construction entrances shall be piped across the entrance. If piping is impractical, a mountable berm with 5:1 slopes will be permitted.
 - Maintenance - The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto public rights-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or cleaning of any measures used to trap sediment. All sediment spilled, dropped, washed or tracked onto public rights-of-way must be removed immediately.
 - Washing - Nozzle shall be cleaned to remove sediment prior to entrance onto public rights-of-way. When washing is required, it shall be done on an area stabilized with stone and which drains into an approved sediment trapping device.
 - Periodic inspection and needed maintenance shall be provided after each rain.

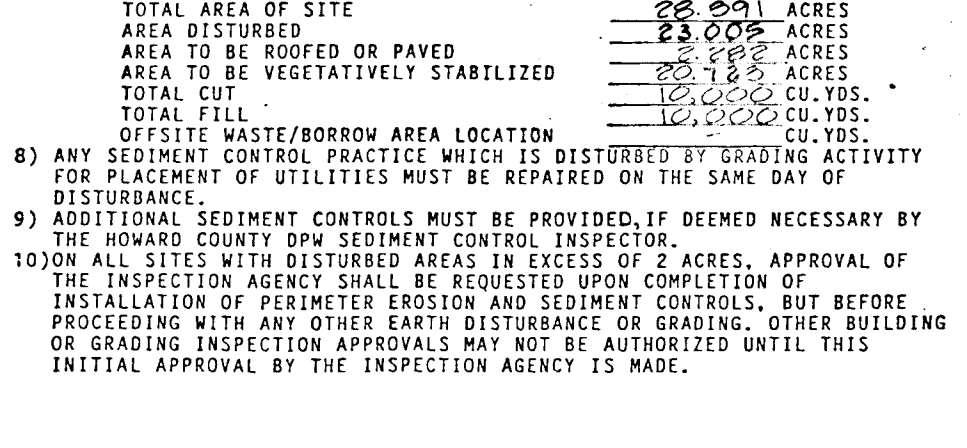


- CONSTRUCTION NOTES FOR FABRICATED SILT FENCE**
- When wire fence is fastened securely to fence posts with wire ties or staples.
 - Filter cloth to be fastened securely to wire fence with ties spaced every 24" at top and mid section.
 - When two sections of filter cloth abut each other they shall be overlapped by six inches and secured.
 - Maintenance shall be performed as needed and material removed when "bulges" develop in the silt fence.



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- SEDIMENT CONTROL NOTES:**
- 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).
 - ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
 - FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3:1; 8) 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
 - ALL SEDIMENT TRAPS/BASINS SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND THEIR PERIMETER DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES.
 - ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMITS FOR THEIR REMOVAL HAVE BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
 - SITE ANALYSIS:
 - TOTAL AREA OF SITE: 28.00 ACRES
 - AREA DISTURBED: 28.00 ACRES
 - AREA TO BE VEGETATIVELY STABILIZED: 28.00 ACRES
 - TOTAL CUT: 150,000 CU. YDS.
 - TOTAL FILL: 150,000 CU. YDS.
 - ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
 - ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
 - ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES, APPROVAL OF THE INSPECTION AGENCY SHALL BE REQUESTED UPON COMPLETION OF INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING. OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE.



- CONSTRUCTION SEQUENCE:**
- OBTAIN GRADING PERMIT.
 - CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE AND STORM WATER MANAGEMENT POND ON LOT 12 AS SHOWN ON PLAN. CONSTRUCT STONE OUTLET SEDIMENT TRAP ON LOT 30 AS SHOWN ON PLAN. STABILIZE THE POND AND TRAP WITH TEMPORARY SEEDING.
 - GRADE ROADS TO SUBGRADE.
 - CONSTRUCT STORM DRAIN SYSTEM.
 - THE CONTRACTOR SHALL INSPECT AND PROVIDE NECESSARY MAINTENANCE ON THE SEDIMENT AND EROSION CONTROL STRUCTURES SHOWN HEREON AFTER EACH RAINFALL AND ON A DAILY BASIS.
 - THE SEDIMENT SHALL BE REMOVED FROM THE POND AND TRAP WHEN THE CLEANOUT ELEVATION HAS BEEN REACHED.
 - THE STORM WATER MANAGEMENT POND AND SEDIMENT TRAP SHALL BE DETAILED BY PUMPING.
 - REMOVE SEDIMENT FROM ROADWAYS AND DRESS STONE CONSTRUCTION ENTRANCE AS REQUIRED.
 - FLUSH STORM DRAIN SYSTEM TO REMOVE ANY TRAPPED SEDIMENT.
 - REMOVE STONE CONSTRUCTION ENTRANCE, CLEAN BASE COURSE, APPLY TACK COAT TO BASE COURSE AND LAY SURFACE COURSE.
 - REMOVE ALL ACCUMULATED SEDIMENT FROM STORM WATER MANAGEMENT POND/MITIGATION BASIN.
 - ALL DISTURBED AREAS DUE TO REMOVAL OF SEDIMENT CONTROL MEASURES SHALL BE GRADED AND STABILIZED BY PERMANENT SEEDING.
 - INITIAL SOIL DISTURBANCE OR REDISTURBANCE PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, SLOPES, DITCH PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3:1; 8) 14 DAYS FOR ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
 - NOTIFY HOWARD COUNTY OFFICE OF INSPECTION AND PERMITS FOR FINAL INSPECTION AT DURATION OF PROJECT.

ENGINEER'S CERTIFICATE

I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PROFESSIONAL AND RESPONSIBLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT I AM PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.

Charles J. Crovo 5/10/88
SIGNATURE OF ENGINEER DATE

DEVELOPER'S CERTIFICATE

I HEREBY CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND 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 CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY.

Robert J. Zielmu 8/24/88
SIGNATURE OF DEVELOPER DATE

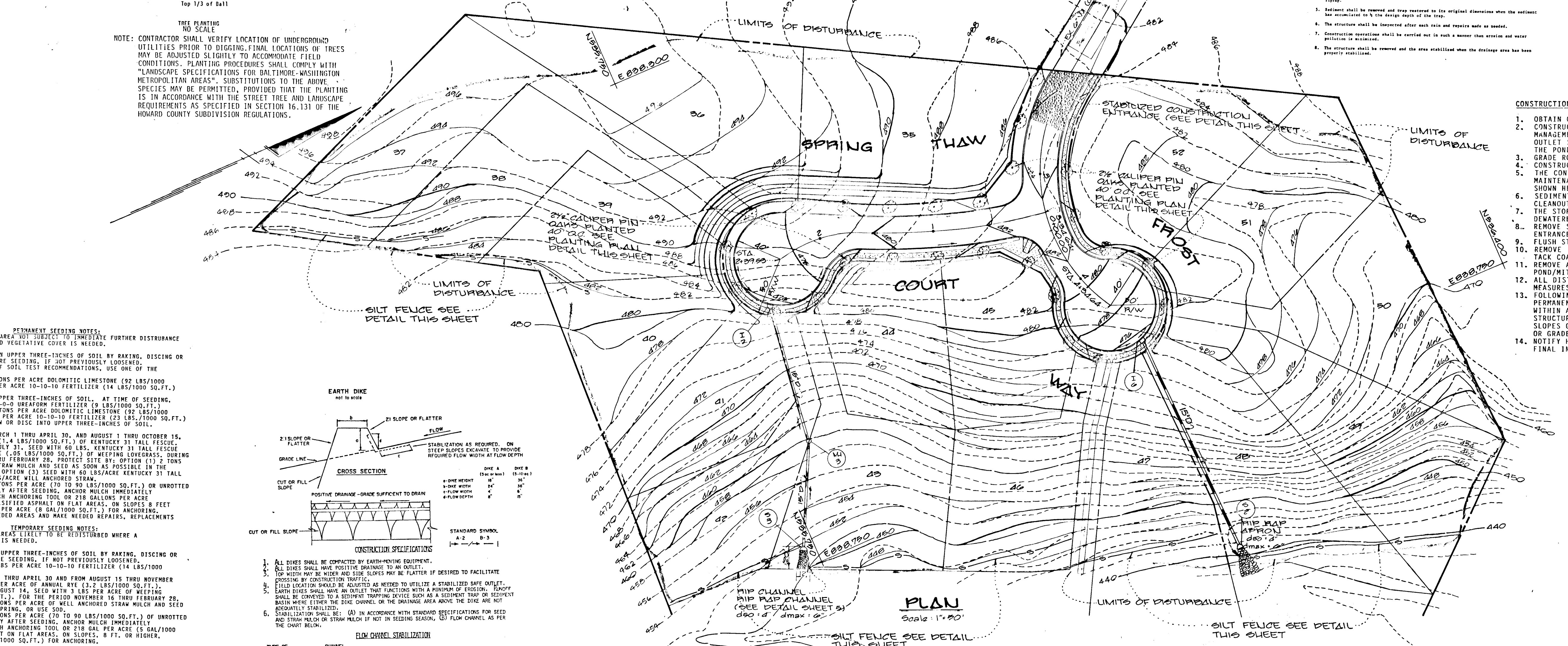
REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND HEREBY RECOMMENDED:
Robert J. Zielmu 8/24/88
DISTRICT SOIL CONSERVATION DISTRICT DATE

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

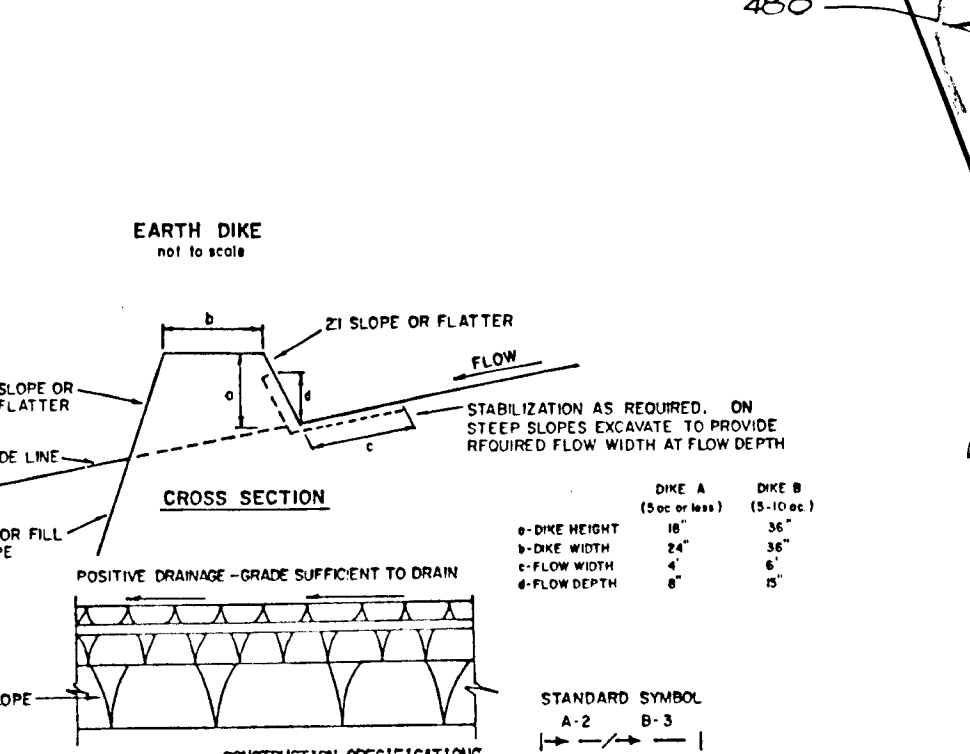
APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Richard J. Pappas 10/13/88
Division Chief, Bureau of Highways DATE

APPROVED: *Richard J. Pappas* 10/13/88
Chief, Bureau of Engineering DATE

APPROVED: OFFICE OF PLANNING AND ZONING
James J. DeLough 10/13/88
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE



- PERMANENT SEEDING NOTES:**
- APPLY TO GRADED OR CLEARED AREA TO BE SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG-LIVED VEGETATIVE COVER IS NEEDED.
- SEEDING PREPARATION:** LOOSEN UPPER THREE-INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING. IF NOT PREVIOUSLY LOOSENED, SOIL AMENDMENTS: APPLY 600 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ.FT.)
- SEEDING:** FOR PERIODS MARCH 1 THRU APRIL 30, AND AUGUST 1 THRU OCTOBER 15, SEED WITH 60 LBS. PER ACRE (1.4 LBS/1000 SQ.FT.) OF KENTUCKY 31 TALL FESCUE. FOR THE PERIOD MAY 1 THRU JULY 31, SEED WITH 60 LBS. KENTUCKY 31 TALL FESCUE PER ACRE AND 2 LBS. PER ACRE (.05 LBS/1000 SQ.FT.) OF WEEPING LOVEGRASS. DURING THE PERIOD OF OCTOBER 16 THRU FEBRUARY 28, PROTECT SITE BY OPTION (1) 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING. OPTION (2) USE SOO, OPTION (3) SEED WITH 60 LBS/ACRE KENTUCKY 31 TALL FESCUE AND MULCH WITH 2 TONS/ACRE WELL ANCHORED STRAW.
- MULCHING:** APPLY 1 1/2 TO 2 TONS PER ACRE (70 TO 90 LBS/1000 SQ.FT.) OF UNROTTED STRAW STRAIN IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GALLONS PER ACRE (5 GAL/1000 SQ. FT.) OF MULCHIFIED ASPHALT ON FLAT AREAS, ON SLOPES 8 FEET OR HIGHER, USE 340 GALLONS PER ACRE (6 GAL/1000 SQ.FT.) FOR ANCHORING. MAINTENANCE: INSPECT ALL SEEDED AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDINGS.
- TEMPORARY SEEDING NOTES:**
- APPLY TO GRADED OR CLEARED AREA SUBJECT TO REDISTURBANCE WHERE A SHORT-TERM VEGETATIVE COVER IS NEEDED.
- SEEDING PREPARATION:** LOOSEN UPPER THREE-INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING. IF NOT PREVIOUSLY LOOSENED, SOIL AMENDMENTS: APPLY 600 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ.FT.)
- SEEDING:** FOR PERIODS MARCH 1 THRU APRIL 30 AND FROM AUGUST 1 THRU NOVEMBER 30, SEED WITH 1 1/2 BUSHEL PER ACRE OF ANNUAL RYE (3.2 LBS/1000 SQ.FT.) FOR THE PERIOD MAY 1 THRU AUGUST 14, SEED WITH 3 LBS PER ACRE OF WEEDING LOVEGRASS (6.0 LBS/1000 SQ.FT.). FOR THE PERIOD NOVEMBER 15 THRU FEBRUARY 28, PROTECT SITE BY APPLYING 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING. OPTION (2) USE SOO, OPTION (3) SEED WITH 60 LBS/ACRE KENTUCKY 31 TALL FESCUE AND MULCH WITH 2 TONS/ACRE WELL ANCHORED STRAW.
- MULCHING:** APPLY 1 1/2 TO 2 TONS PER ACRE (70 TO 90 LBS/1000 SQ.FT.) OF UNROTTED STRAW STRAIN IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GAL. PER ACRE (5 GAL/1000 SQ.FT.) OF MULCHIFIED ASPHALT ON FLAT AREAS, ON SLOPES, 8 FT. OR HIGHER, USE 340 GAL. PER ACRE (6 GAL/1000 SQ.FT.) FOR ANCHORING.
- REFER TO THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED.



- FLOW CHANNEL STABILIZATION**
- | TYPE OF TREATMENT | CHANNEL SIZE | DIKE A | DIKE B |
|-------------------|--------------|----------------------------------|--|
| 1 | 1-3.00 | SEED AND STRAW MULCH | SEED AND STRAW MULCH |
| 2 | 3.1-5.00 | SEED AND STRAW MULCH | SEED USING LIME, OR EXCELLENT; SOO; 2" STONE |
| 3 | 5.1-8.00 | SEED WITH JUTE, OR SOO; 2" STONE | LINED R1P-RAP 4-8" |
| 4 | 8.1-200 | LINED R1P-RAP 4-8" | ENGINEERING DESIGN |
- ALL DIKES SHALL BE COMPACTED BY EARTH-MOVING EQUIPMENT.
 - ALL DIKES SHALL HAVE POSITIVE DRAINAGE TO AN OUTLET.
 - PROTECTING BY CONSTRUCTION TRAFFIC.
 - FIELD LOCATION SHOULD BE ADJUSTED AS NEEDED TO UTILIZE A STABILIZED SAFE OUTLET.
 - EARTH DIKES SHALL HAVE AN OUTLET THAT FUNCTIONS WITH A MINIMUM OF EROSION. EROSION SHALL BE CORRECTED BY A SEDIMENT TRAPPING DEVICE SUCH AS A SEDIMENT TRAP OR SEDIMENT BASIN WHETHER THE DIKE CHANNEL OR THE DRAINAGE AREA ABOVE THE DIKE ARE NOT SEPARATELY STABILIZED.
 - STABILIZATION SHALL BE: (A) IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR SEED AND STRAW MULCH OR STRAW MULCH IF NOT IN SEEDING SEASON, (B) PLAN CHANNEL AS PER THE CHART BELOW.

OWNER AND DEVELOPER
ELLCOTT CITY LAND HOLDING CO. INC
8307 MAIN STREET
ELLCOTT CITY MARYLAND 21043

SEAL OF THE ENGINEER

CHARLES J. CROVO SR.
DATE 5/10/88

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERS & LAND SURVEYORS
8388 COURT AVENUE
ELLCOTT CITY, MARYLAND 21043

STREET TREE, GRADING, AND SEDIMENT CONTROL PLAN

MAPLE FOREST

SECTIONS 1&2
LOTS 1-52
2 ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN
MAY 16, 1988
SHEET 9 OF 9