

**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 ROADRIGHTS-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, 1978 EDITION.

APPROVED  
DEPARTMENT OF PUBLIC WORKS  
*[Signature]* 2-18-97  
CHIEF, BUREAU OF ENGINEERING DATE

APPROVED  
OFFICE OF PLANNING AND ZONING  
*[Signature]* 2-18-97  
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE

# TURF VALLEY OVERLOOK

## SECTION ONE AREA TWO

### SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND

**BENCH MARKS**

B.M. 'B' ELEV. 432.38  
R.R. SPIKE SET IN B.G.&E. POLE #140464 @ INTERSECTION OF BOONE'S LANE & MULLINEAUX LANE.  
\*SEE SHEET NUMBER 6 OF 12 FOR LOCATION.

B.M. 'C' ELEV. 456.65  
R.R. SPIKE SET IN B.G.&E. POLE #140468 @ END OF BOONE'S LANE.  
\*SEE SHEET NUMBER 6 OF 12 FOR LOCATION.

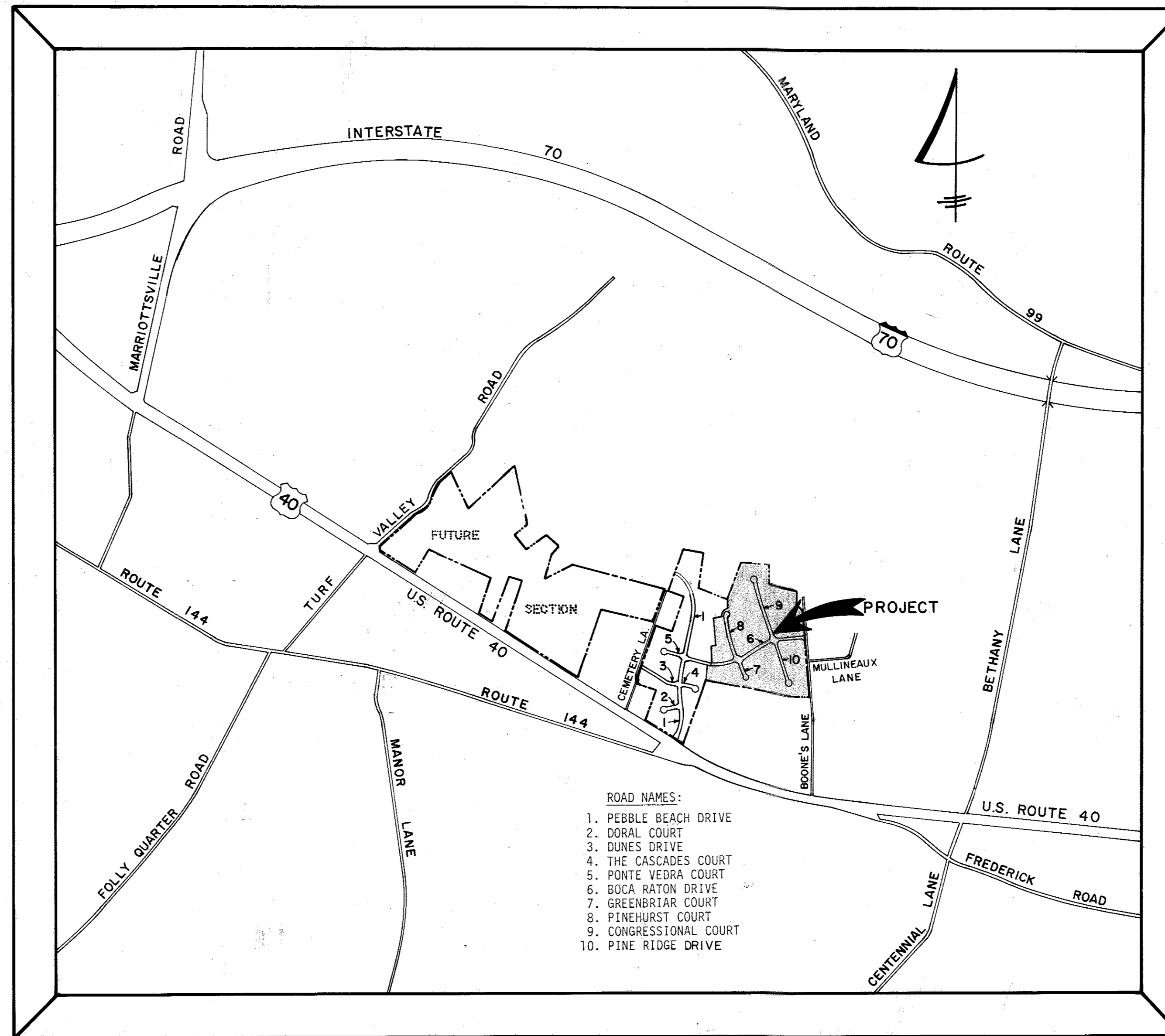
**STREET LIGHTS**

6-(SIX)-175 WATT "MODERN" MERCURY VAPOR LAMP, POST TOP FIXTURES ON A 14-FOOT GRAY FIBERGLASS POLE LOCATED 2'-10" FROM BACK OF CURB AT THE FOLLOWING LOCATIONS:

- 1.) SOUTH CORNER OF PINEHURST COURT AND BOCA RATON DRIVE.
- 2.) SOUTHWEST CORNER OF PINE RIDGE DRIVE AND BOCA RATON DRIVE.
- 3.) THE NORTH CORNER OF BOONE'S LANE AND BOCA RATON DRIVE.
- 4.) STA. 4+00 LEFT PINEHURST COURT.
- 5.) STA. 4+05 LEFT CONGRESSIONAL COURT.
- 6.) AT B.G.&E. POLE #140464.

**INDEX OF SHEETS**

- 1) TITLE SHEET
- 2) PINEHURST COURT-PLAN, GREENBRIAR COURT-PLAN, BOCA RATON DRIVE-PLAN AND PROFILE.
- 3) PINEHURST COURT-PLAN AND PROFILE, GREENBRIAR COURT-PROFILE.
- 4) CONGRESSIONAL COURT-PLAN, BOCA RATON DRIVE-PLAN, PINE RIDGE DRIVE-PLAN AND PROFILE.
- 5) CONGRESSIONAL COURT-PLAN AND PROFILE.
- 6) BOCA RATON DRIVE-PLAN, BOONES LANE-PLAN AND PROFILE
- 7) PARABOLIC CHANNEL - PROFILES AND DESIGN DATA, ROADWAY SECTIONS AND DETAILS.
- 8) DRAINAGE AREA MAP, AND STRUCTURE SCHEDULE.
- 9) STORM DRAIN PROFILES, RIP-RAP CHANNEL DETAIL AND DESIGN DATA.
- 10) SEDIMENT CONTROL BASIN-PROFILE AND DETAILS.
- 11) STREET TREE, GRADING, AND SEDIMENT CONTROL PLAN.
- 12) STREET TREE, GRADING, AND SEDIMENT CONTROL PLAN.



**VICINITY MAP**

SCALE: 1" = 1200'

PLAN REVISION NOTE: ON OR AROUND 11/18/14, CAPITAL PROJECT CONSULTING INC. PERFORMED STREAM RESTORATION PROJECT, WHICH INVOLVED TO GRADE AND STABILIZE EXISTING STREAM BANKS ALONG A TRIBUTARY TO LITTLE PATUMON RIVER (ILLUSTRATED WITHIN THE LIMITS OF THIS SITE PLAN). AN ALTERNATIVE COMPLIANCE WAS PROCESSED THROUGH THE DEPARTMENT OF PLANNING AND ZONING UNDER WP-15-033, APPROVED ON 10/10/14, TO WAIVE SUBSECTIONS 16.15T(a)(1)(i); 16.1201(h) AND 16.1605(c)(7) OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS SUBJECT TO THREE APPROVAL CONDITIONS. FOR DETAILED APPROVAL CONDITIONS AND CURRENT SITE CONDITIONS WITHIN THE DISTURBED AREA, SEE THE CAPITAL PROJECT PLANS.

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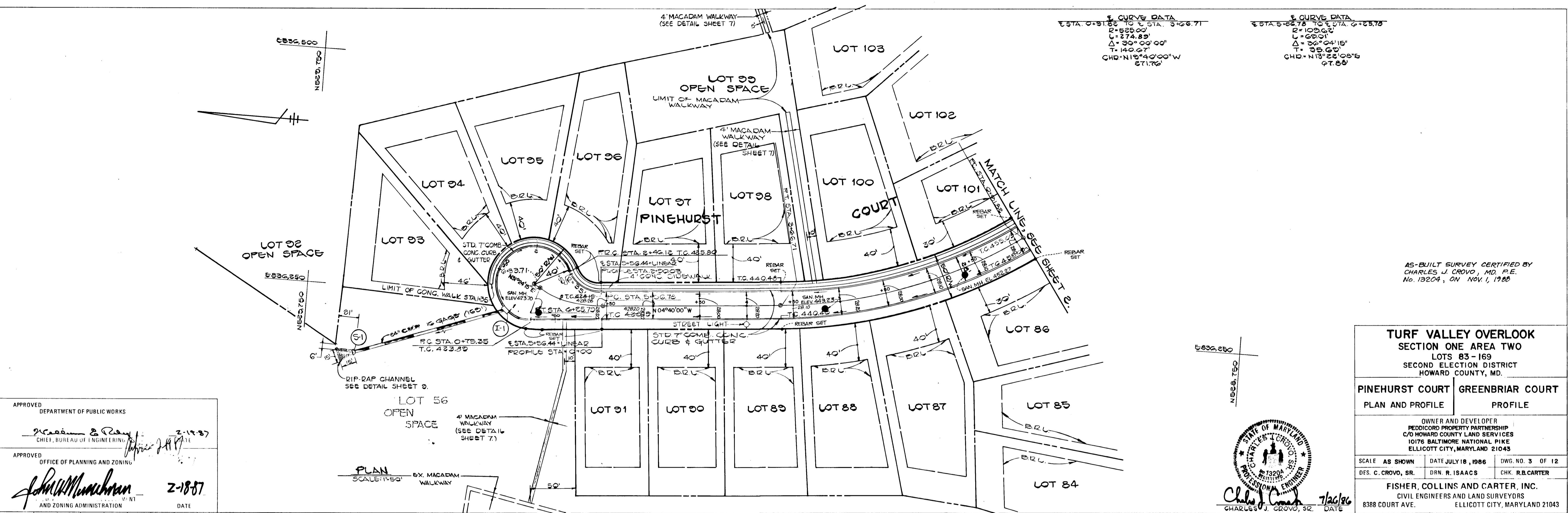




DATE	
BY	
PLAN	
SURVEYED	
ALIGNED	
CHECKED	
BY	
DATE	

DATE	
BY	
PROFILE	
SURVEYED	
GRADES CHECKED	
BY	
DATE	

265



**± CURVE DATA**  
 STA. 0+31.88 TO STA. 0+56.71  
 R=525.00'  
 L=274.89'  
 Δ=30°00'00"  
 T=140.67'  
 CHD=N13°40'00"W  
 271.76'

**± CURVE DATA**  
 STA. 5+56.78 TO STA. 6+25.78  
 R=100.00'  
 L=60.00'  
 Δ=30°04'15"  
 T=35.60'  
 CHD=N13°22'08"E  
 67.66'

AS-BUILT SURVEY CERTIFIED BY  
 CHARLES J. CROVO, MD. P.E.  
 NO. 13204, ON NOV. 1, 1986

APPROVED  
 DEPARTMENT OF PUBLIC WORKS  
 [Signature] 2-18-87  
 CHIEF, BUREAU OF ENGINEERING

APPROVED  
 OFFICE OF PLANNING AND ZONING  
 [Signature] 2-18-87  
 AND ZONING ADMINISTRATION

**TURF VALLEY OVERLOOK**  
 SECTION ONE AREA TWO  
 LOTS 83-169  
 SECOND ELECTION DISTRICT  
 HOWARD COUNTY, MD.

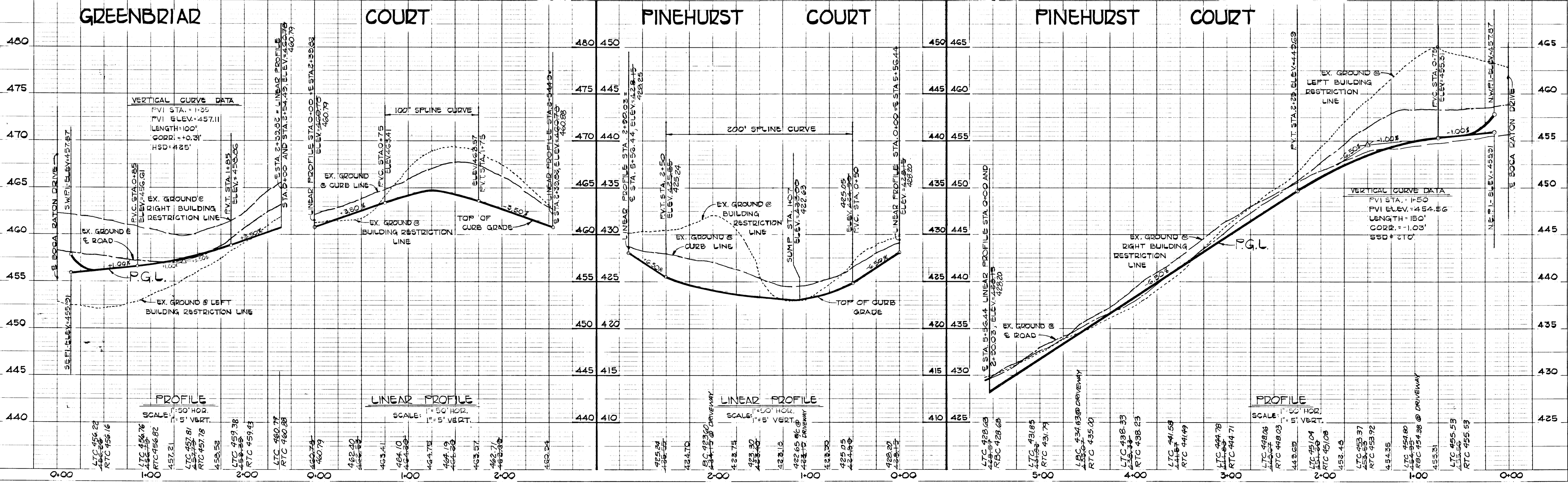
**PINEHURST COURT GREENBRIAR COURT**  
 PLAN AND PROFILE PROFILE

OWNER AND DEVELOPER  
 REDDICK PROPERTY PARTNERSHIP  
 10176 BALTIMORE NATIONAL PIKE  
 ELLICOTT CITY, MARYLAND 21043

SCALE AS SHOWN DATE JULY 18, 1986 DWG. NO. 3 OF 12  
 DES. C. CROVO, SR. DRN. R. ISAACS CHK. R. CARTER

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

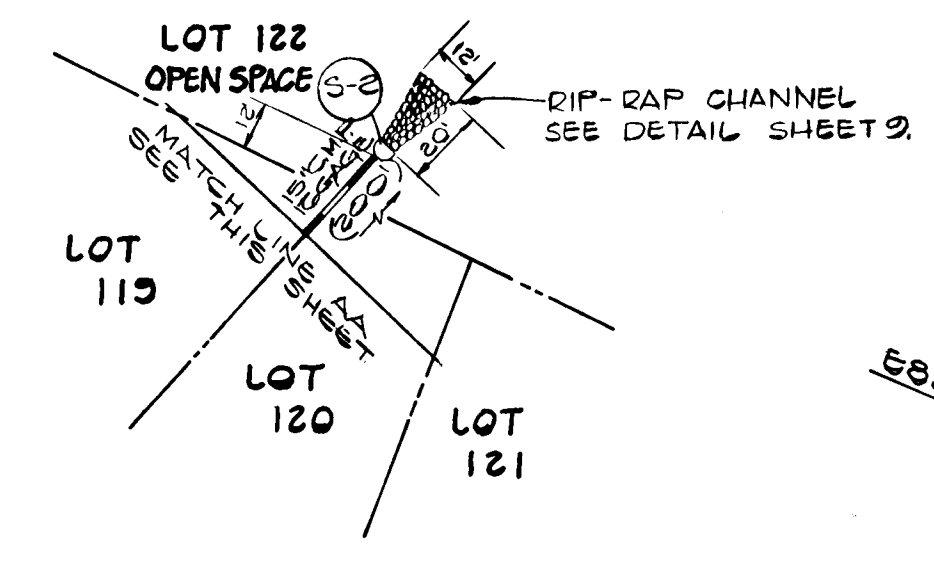
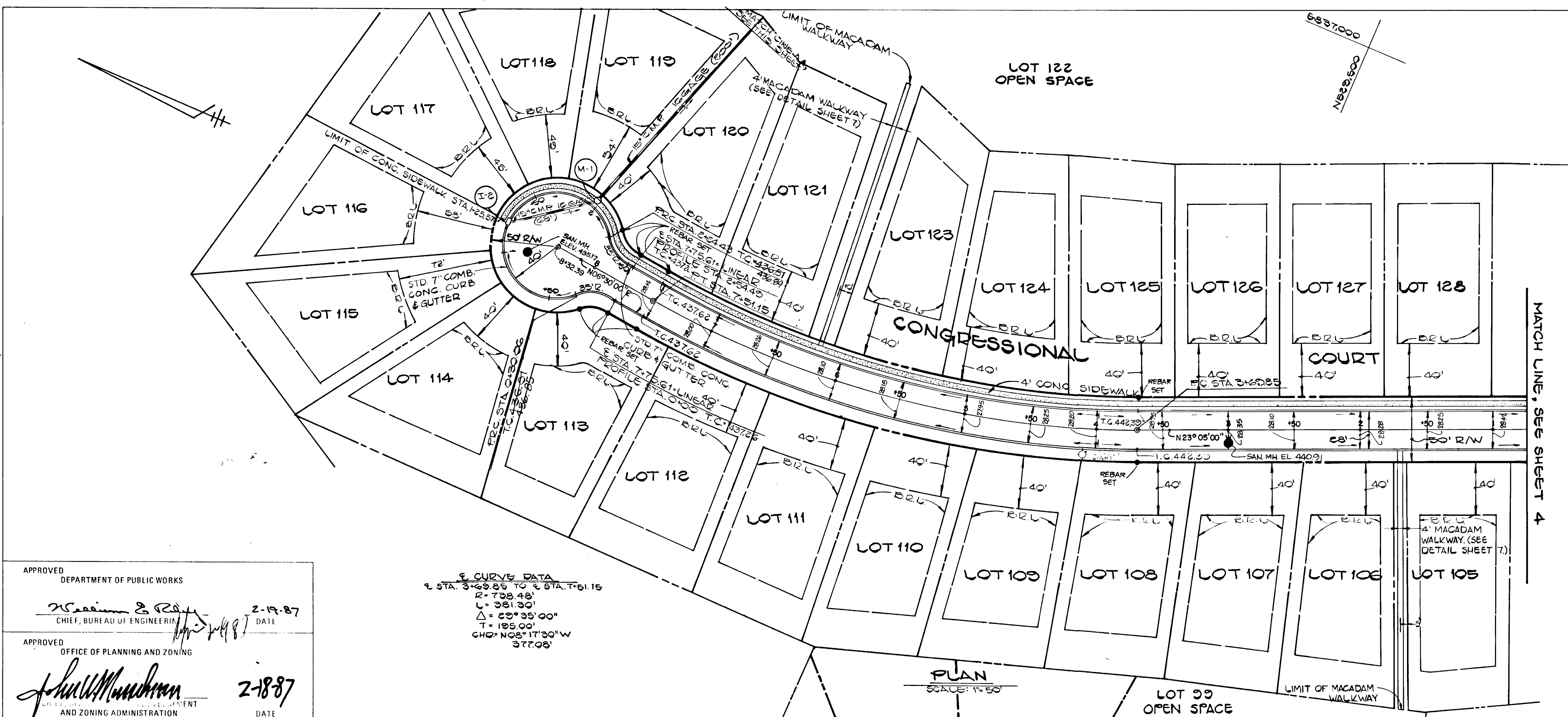
[Professional Engineer Seal: Charles J. Crovo, No. 13204, State of Maryland]





DATE	
BY	
PLAN	
SURVEYED	
PLANNING CHECKED	
NOTE BOOK	
NO.	

DATE	
BY	
PROFILE	
SURVEYED	
PLANNING CHECKED	
NOTE BOOK	
NO.	



APPROVED  
 DEPARTMENT OF PUBLIC WORKS  
*William R. R...*  
 CHIEF, BUREAU OF ENGINEERING  
 DATE: 2-19-87

APPROVED  
 OFFICE OF PLANNING AND ZONING  
*John W. M...*  
 AND ZONING ADMINISTRATION  
 DATE: 2-18-87

STATE OF MARYLAND  
 CHARLES J. GROVO, SR.  
 PROFESSIONAL ENGINEER  
 No. 13204, ON NOV. 1, 1988  
*Charles J. Grovo, Sr.*  
 CHARLES J. GROVO, SR.  
 DATE: 7/26/86

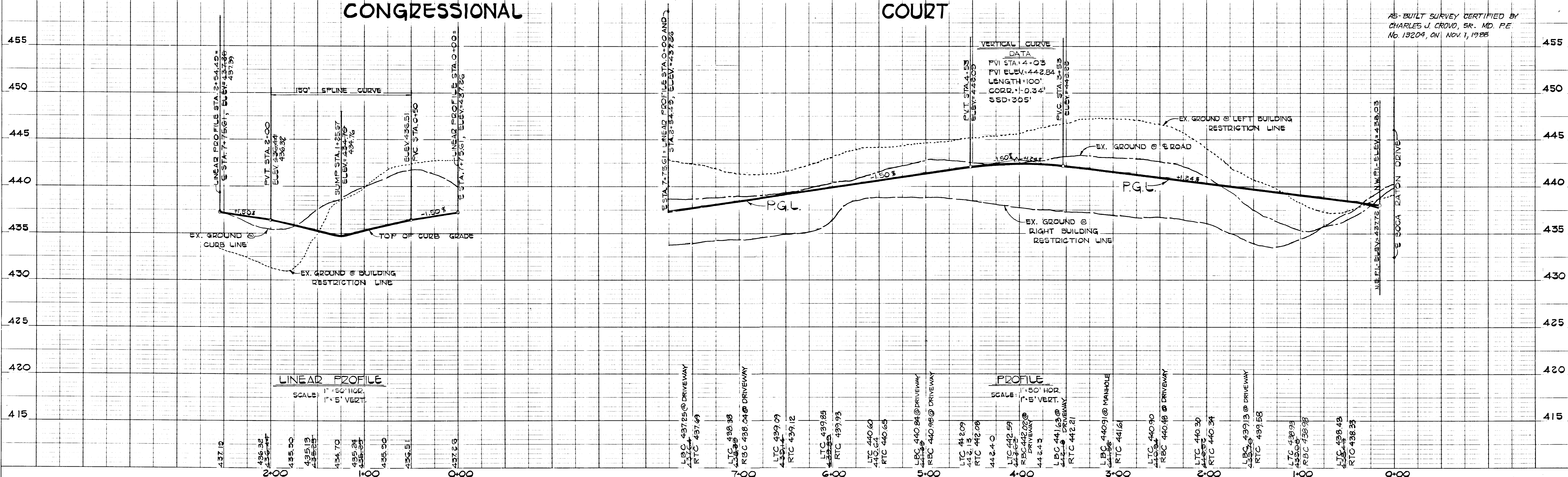
**TURF VALLEY OVERLOOK**  
 SECTION ONE AREA TWO  
 LOTS 83-169  
 SECOND ELECTION DISTRICT  
 HOWARD COUNTY, MD.

**CONGRESSIONAL COURT**  
 PLAN AND PROFILE

OWNER AND DEVELOPER  
 MEDICORD PROPERTY PARTNERSHIP  
 C/O HOWARD COUNTY LAND SERVICES  
 10178 BALTIMORE NATIONAL PIKE  
 ELLICOTT CITY, MARYLAND 21043

SCALE AS SHOWN DATE JULY 18, 1986 DWG. NO. 5 OF 12  
 DES. C. GROVO, SR. DRN. R. ISAACS CHK. R.B. CARTER

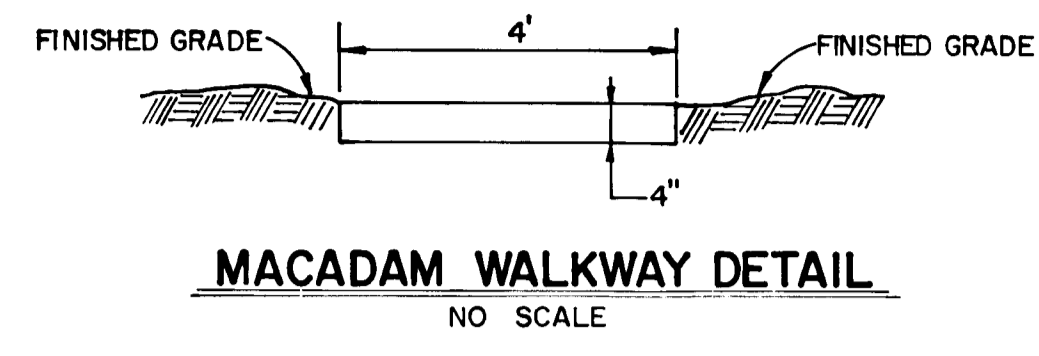
FISHER, COLLINS AND CARTER, INC.  
 CIVIL ENGINEERS AND LAND SURVEYORS  
 8388 COURT AVE. ELLICOTT CITY, MARYLAND 21043



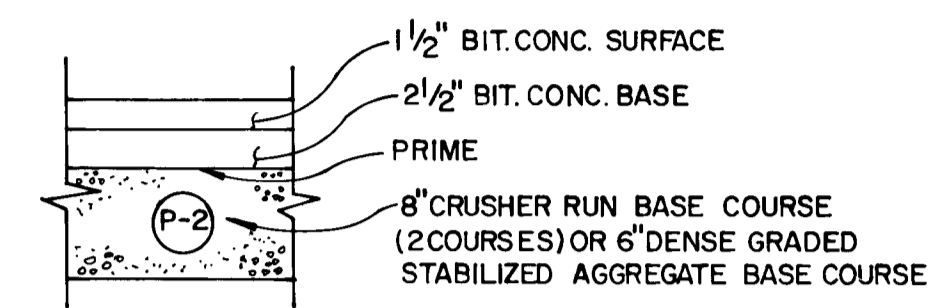
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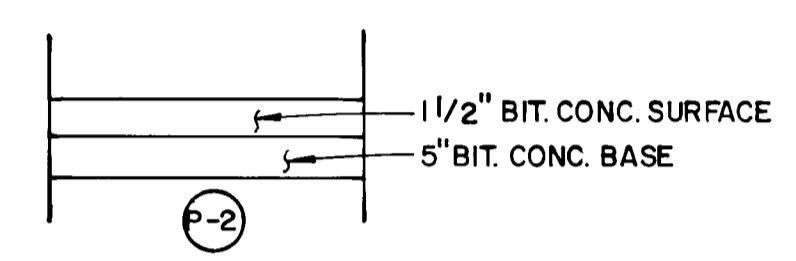
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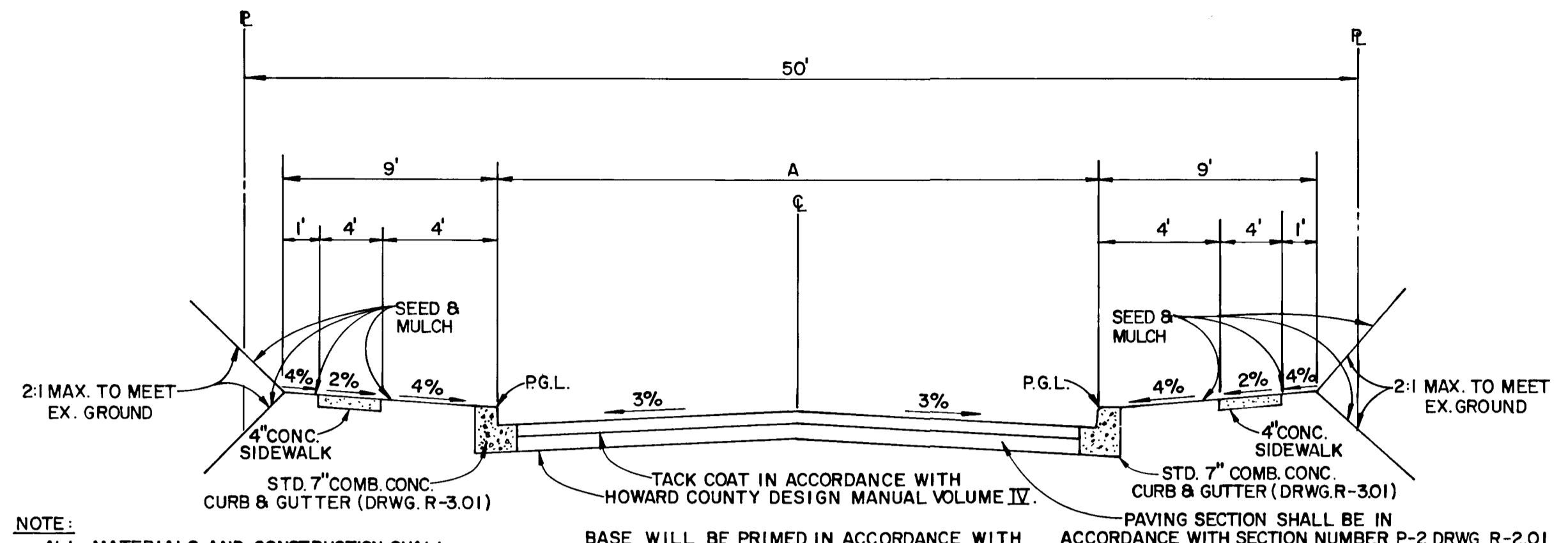
**MACADAM WALKWAY DETAIL**  
NO SCALE



**PAVING SECTION P-2**  
NO SCALE

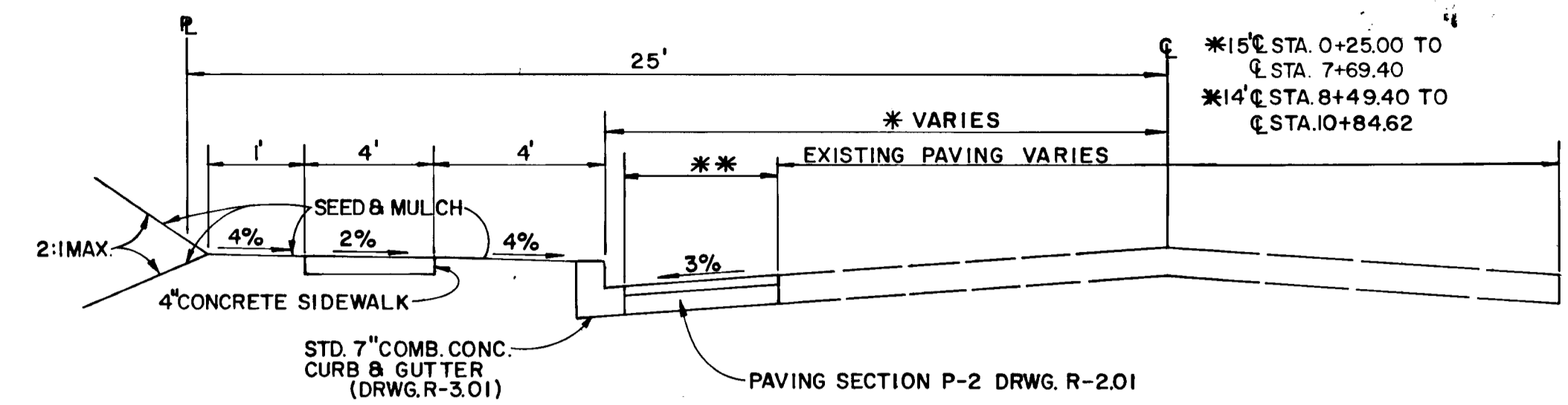


**PAVING SECTION P-2**  
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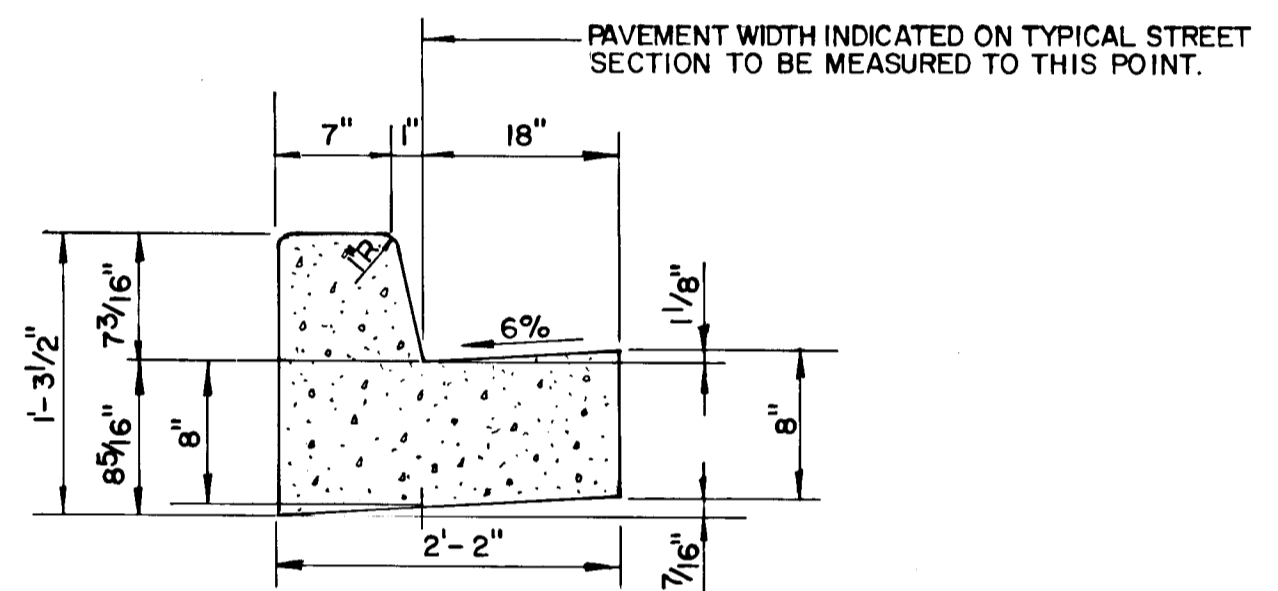


**TYPICAL ROADWAY SECTION**  
NO SCALE

NOTE: ALL MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL - VOLUME IV STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION.  
BASE WILL BE PRIMED IN ACCORDANCE WITH HOWARD COUNTY DESIGN MANUAL VOLUME IV.  
PAVING SECTION SHALL BE IN ACCORDANCE WITH SECTION NUMBER P-2 DRWG. R-201



**TYPICAL WIDENING SECTION ALONG BOONE'S LANE**  
TYPE OF TRAFFICWAY: LOCAL STREET DESIGN SPEED: 30MPH. ZONED R-20  
STA. LIMITS 0+25.00 TO 10+84.62  
NOTE: IF THE PAVEMENT WIDENING ALONG BOONE'S LANE IS LESS THAN 4 FEET THE CONTRACTOR SHALL REMOVE EXISTING PAVING IN ORDER TO PROVIDE 4\"/>



**STANDARD SLOPE 7\"/>**

ROAD NAME	CLASSIFICATION	DESIGN SPEED	ZONING	A	STATION LIMITS
PINEHURST COURT	CUL-DE-SAC	30 M.P.H.	R-20	28'	0+00 TO 5+56.44
GREENBRIAR COURT	CUL-DE-SAC	25 M.P.H.	R-20	28'	0+00 TO 2+39.82
PINE RIDGE DRIVE	CUL-DE-SAC	30 M.P.H.	R-20	28'	0+00 TO 5+34.47
CONGRESSIONAL COURT	CUL-DE-SAC	30 M.P.H.	R-20	28'	0+00 TO 7+75.61
BOCA RATON DRIVE	LOCAL ROAD	30 M.P.H.	R-20	30'	4+37.70 TO 18+88.75

APPROVED DEPARTMENT OF PUBLIC WORKS  
*William E. Reed* 2-11-87  
CHIEF, BUREAU OF ENGINEERING

APPROVED OFFICE OF PLANNING AND ZONING  
*John M. Murchison* 2-18-87  
DIRECTOR, PLANNING AND ZONING ADMINISTRATION



**TURF VALLEY OVERLOOK SECTION ONE AREA TWO**  
LOTS 83-169  
SECOND ELECTION DISTRICT  
HOWARD COUNTY, MD.

**PARABOLIC CHANNEL PROFILES & DESIGN DATA, ROADWAY SECTIONS AND DETAILS**

OWNER AND DEVELOPER  
PEDDICORD PROPERTY PARTNERSHIP  
C/O HOWARD COUNTY LAND SERVICES  
10176 BALTIMORE NATIONAL PIKE  
ELlicott CITY, MARYLAND 21043

SCALE AS SHOWN DATE JULY 18, 1986 DWG. NO. 7 OF 12  
DES. C. CROVO, SR. DRN. D. NEWTON CHK. R.B. CARTER

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

*Charles J. Crovo, Sr.* 7/26/86  
DATE

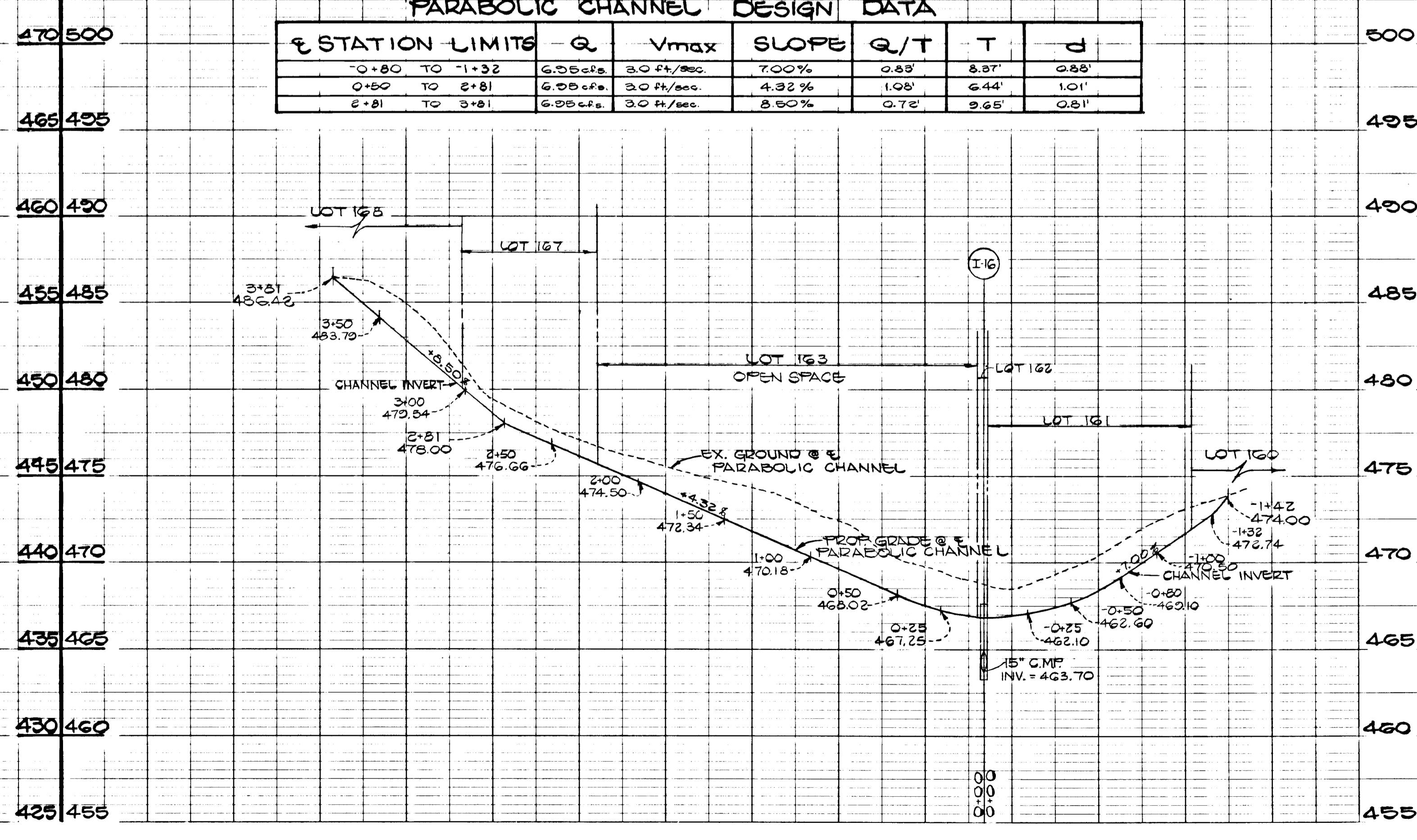
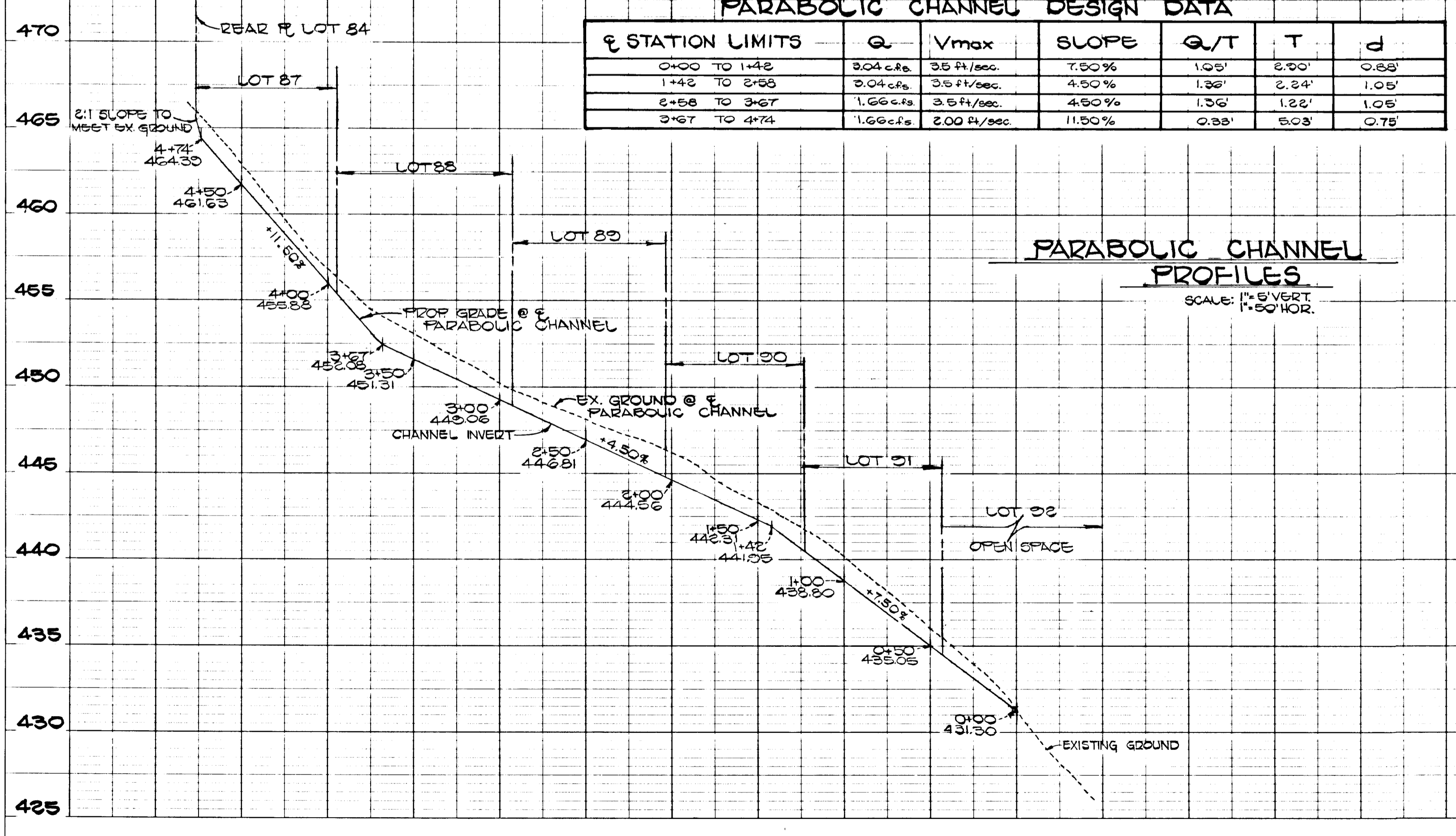
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PLOTTED  
CHECKED  
NOTE BOOK  
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**PARABOLIC CHANNEL DESIGN DATA**

STATION LIMITS	Q	Vmax	SLOPE	Q/T	T	d
0+00 TO 1+42	3.04 cfs	3.5 ft/sec	7.50%	1.00'	6.50'	0.88'
1+42 TO 2+58	3.04 cfs	3.5 ft/sec	4.50%	1.36'	2.34'	1.05'
2+58 TO 3+67	1.66 cfs	3.5 ft/sec	4.50%	1.36'	1.22'	1.05'
3+67 TO 4+74	1.66 cfs	2.00 ft/sec	11.50%	0.88'	5.03'	0.75'

**PARABOLIC CHANNEL DESIGN DATA**

STATION LIMITS	Q	Vmax	SLOPE	Q/T	T	d
0+80 TO 1+32	6.08 cfs	3.0 ft/sec	7.00%	0.88'	8.97'	0.88'
0+80 TO 2+81	6.08 cfs	3.0 ft/sec	4.32%	1.08'	6.44'	1.01'
2+81 TO 3+81	6.08 cfs	3.0 ft/sec	8.50%	0.72'	9.65'	0.81'



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STRUCTURE SCHEDULE				ROAD STATIONS		REMARKS
NO.	TYPE	INVERT IN	INVERT OUT	± TOP ELEV.	± ROAD STATION	
I-1	A-10	---	418.00	422.63	± Sta. 1+07.00	Pinehurst Court S.D. 4.02
I-2	A-5	---	418.00	422.63	± Sta. 1+25.57	Congressional Court S.D. 4.01
I-3	A-5	441.74	431.36	434.76	± Sta. 1+84.21	Boca Raton Drive S.D. 4.01
I-4	A-5	441.74	432.25	437.41	± Sta. 0+45.50	Congressional Court S.D. 4.01
I-5	A-10	441.74	433.13	438.51	± Sta. 0+45.50	Congressional Court S.D. 4.02
I-6	A-10 w/ deflectors	---	434.30	438.57	± Sta. 13+97.71	Boca Raton Drive S.D. 4.02 & S.D. 4.83
I-7	A-5	441.74	430.72	437.41	± Sta. 14+84.21	Boca Raton Drive S.D. 4.01
I-8	A-5 w/ deflectors	431.81	431.57	439.12	± Sta. 0+45.50	Pine Ridge Drive S.D. 4.01 & S.D. 4.83
I-9	A-10 w/ deflectors	432.28	432.27	439.10	± Sta. 0+45.50	Pine Ridge Drive S.D. 4.02 & S.D. 4.83
I-10	A-10 w/ deflectors	433.25	432.50	438.60	± Sta. 13+97.71	Boca Raton Drive S.D. 4.02 & S.D. 4.83
I-11	A-5	450.44	450.34	456.22	± Sta. 0+45.50	Greenbriar Court S.D. 4.01
I-12	A-10	451.74	450.96	456.77	± Sta. 0+45.50	Greenbriar Court S.D. 4.02
I-13	A-5 w/ deflectors	454.93	454.76	459.84	± Sta. 8+98.60	Boca Raton Drive S.D. 4.01 & S.D. 4.83
I-14	A-5 w/ deflectors	---	455.73	459.68	± Sta. 8+98.60	Boca Raton Drive S.D. 4.01 & S.D. 4.83
I-15	A-5 w/ deflectors	454.06	453.70	458.52	± Sta. 1+77.36	Greenbriar Court S.D. 4.01 & S.D. 4.83
I-16	D Inlet	---	447.70	447.74	---	---
I-17	A-5	444.74	442.82	443.27	± Sta. 4+75.00	Boone's Lane S.D. 4.01
MI-1	Standard Manhole	429.83	429.83	436.07	± 6' from face of curb	L.P. Sta. G.5.01
MI-2	Standard Manhole	428.54	428.54	436.49	± 21' ± Sta. 16+54.00	Boca Raton Drive G.5.03
MI-3	Shallow Manhole	445.68	445.68	453.16	± 21' ± Sta. 9+93.35	Boca Raton Drive G.5.05
MI-4	Shallow Manhole	452.83	452.83	457.73	± 20' ± Sta. 1+39.47	Greenbriar Court G.5.05
MI-5	Shallow Manhole	427.98	427.98	432.16	To be set ± 21'	Boone's Lane opposite ex. 18" CMP G.5.05
S-1	Std. Metal End Section	416.26	416.26	418.25	---	S.D. 5.61
S-2	Std. Metal End Section	416.78	416.78	419.27	---	S.D. 5.61
S-3	Std. Metal End Section	427.18	427.18	430.40	---	S.D. 5.61
S-4	Std. Metal End Section	428.36	428.36	429.72	---	S.D. 5.61

\* Openings to be placed on all 4 sides at I-16

APPROVED: DEPARTMENT OF PUBLIC WORKS  
 CHIEF, BUREAU OF ENGINEERING  
 APPROVED: OFFICE OF PLANNING AND ZONING  
 DATE: 2-19-87  
 DATE: 2-18-87



Drainage Area Map  
 Scale: 1" = 100'

AS-BUILT SURVEY CERTIFIED BY  
 CHARLES J. CROUD, MD. P.E. No. 13204, ON NOV. 1, 1988



OWNER & DEVELOPER  
 PEDDICORD PROPERTY PARTNERSHIP  
 C/O HOWARD COUNTY LAND SERVICES  
 10176 BALTIMORE NATIONAL PIKE  
 ELLICOTT CITY, MARYLAND 21043

TURF VALLEY OVERLOOK  
 SECTION 1 AREA 2  
 LOTS 83-169  
 2ND ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND  
 SCALE: AS SHOWN SHEET 8 OF 12 JULY 18, 1986

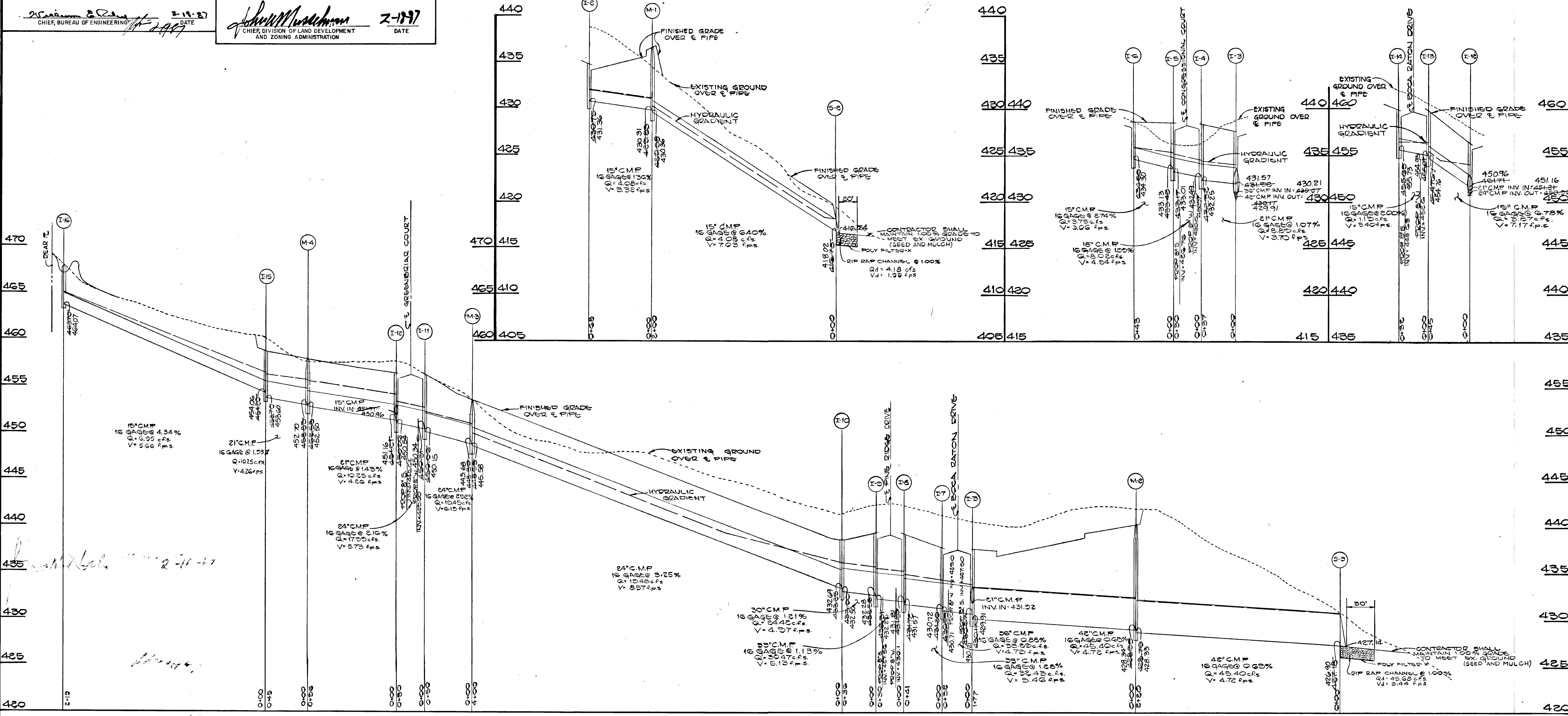
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FISHER, COLLINS AND CARTER, INC.  
 CONSULTING ENGINEERS AND LAND SURVEYORS  
 8388 COURT AVENUE  
 ELLICOTT CITY, MARYLAND 21043  
 TELEPHONE: (301) 461-2855



APPROVED  
DEPARTMENT OF PUBLIC WORKS  
*James B. ...*  
CHIEF, BUREAU OF ENGINEERING  
DATE 2-19-87

APPROVED  
OFFICE OF PLANNING AND ZONING  
*John Muschmann*  
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION  
DATE 2-19-87



**RIP RAP CHANNEL DESIGN DATA**

STRUCTURE	A <sup>2</sup>	P <sup>1</sup>	R	R <sup>2</sup> /3	S	S <sup>1/2</sup>	n	Q	V	d	W	RIP RAP SIZE	b
S-1	0.27	0.18	0.9742	0.6295	1.00%	0.100	0.04	19.50 cfs	2.56 fps	0.71'	6'	6"	14"
S-2	2.10	0.33	0.3045	0.9962	1.00%	0.100	0.04	4.18 cfs	1.25 fps	0.62'	3'	4"	9"
S-3	13.28	1.47	0.8031	0.5870	1.00%	0.100	0.04	45.68 cfs	3.44 fps	1.00'	10'	6"	14"

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

AS-BUILT SURVEY CERTIFIED BY  
CHARLES J. GROVO, MD. P.E. No.  
13204, ON NOV. 1, 1988

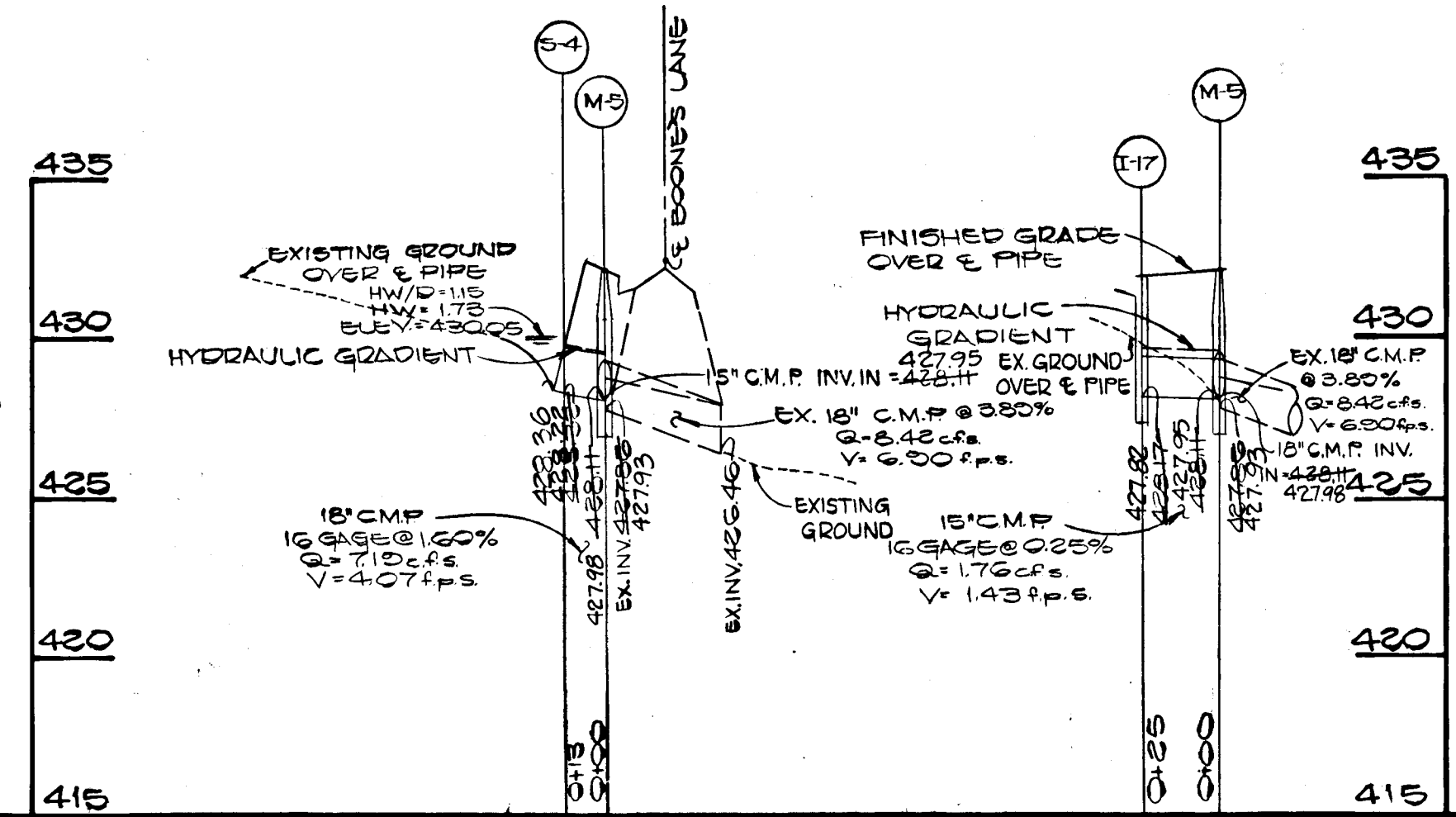
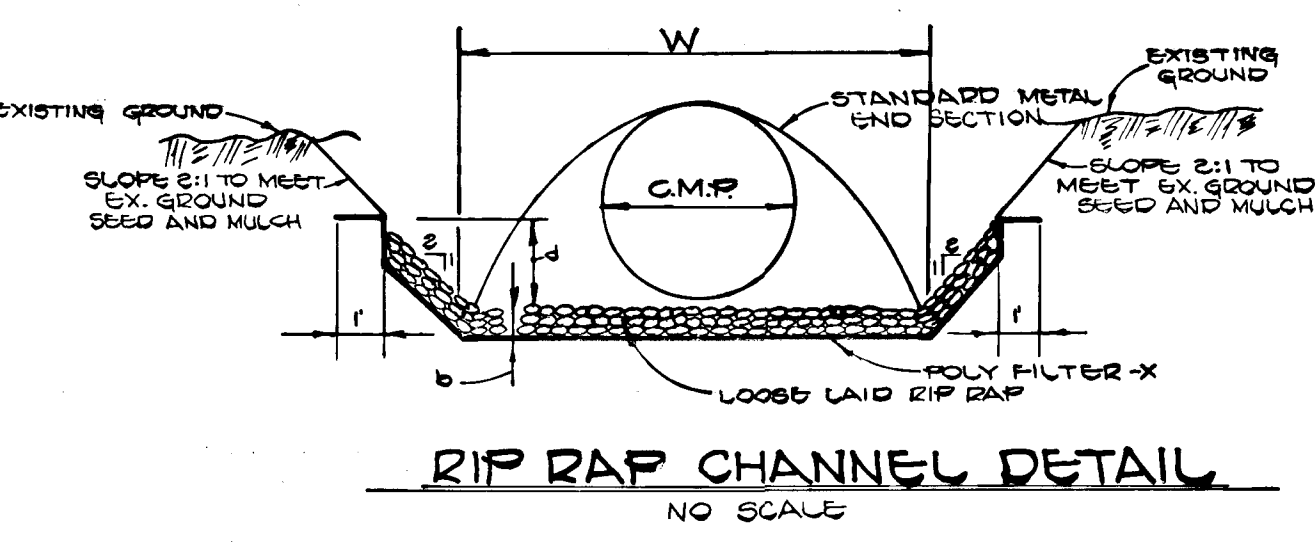
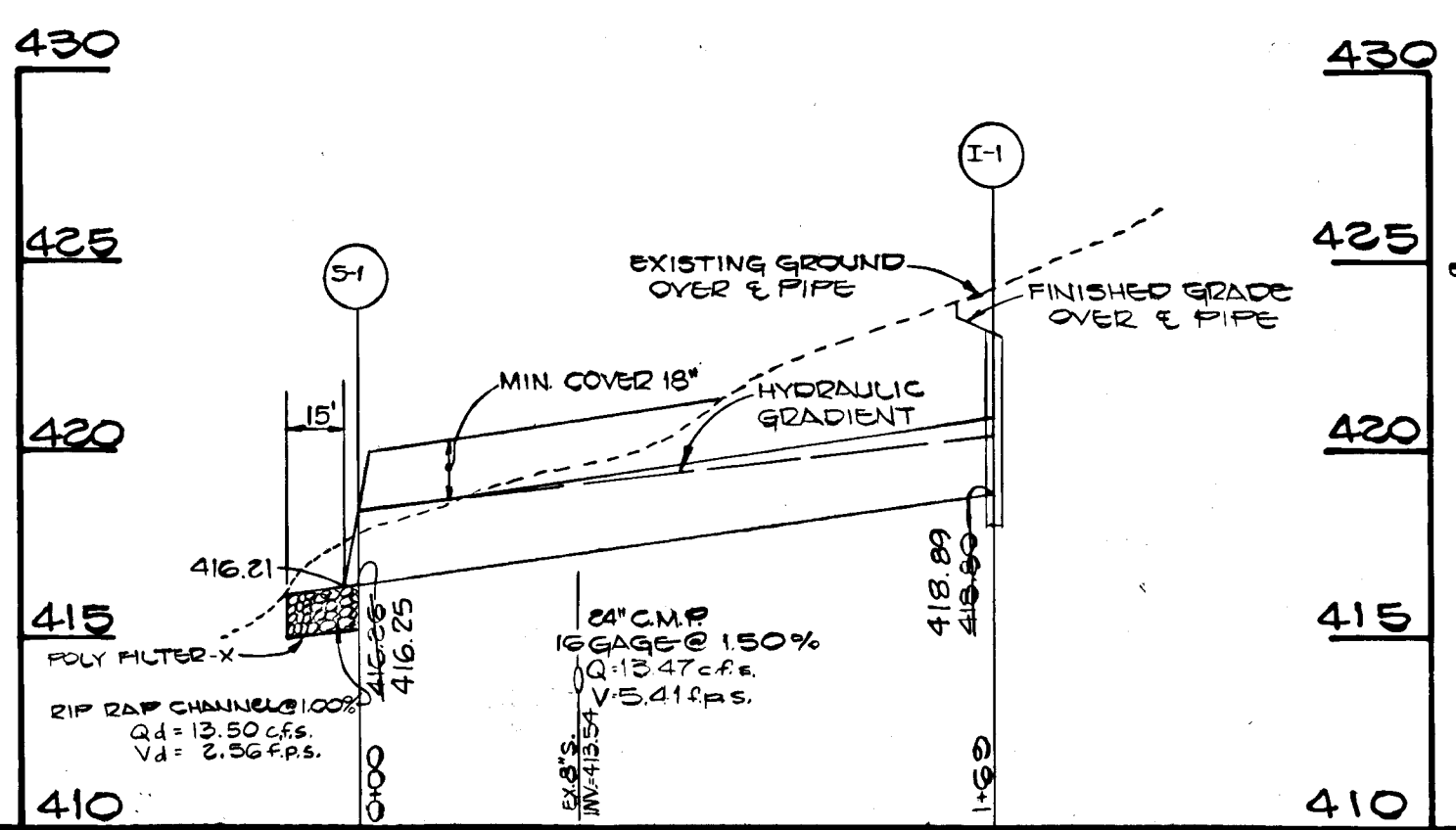


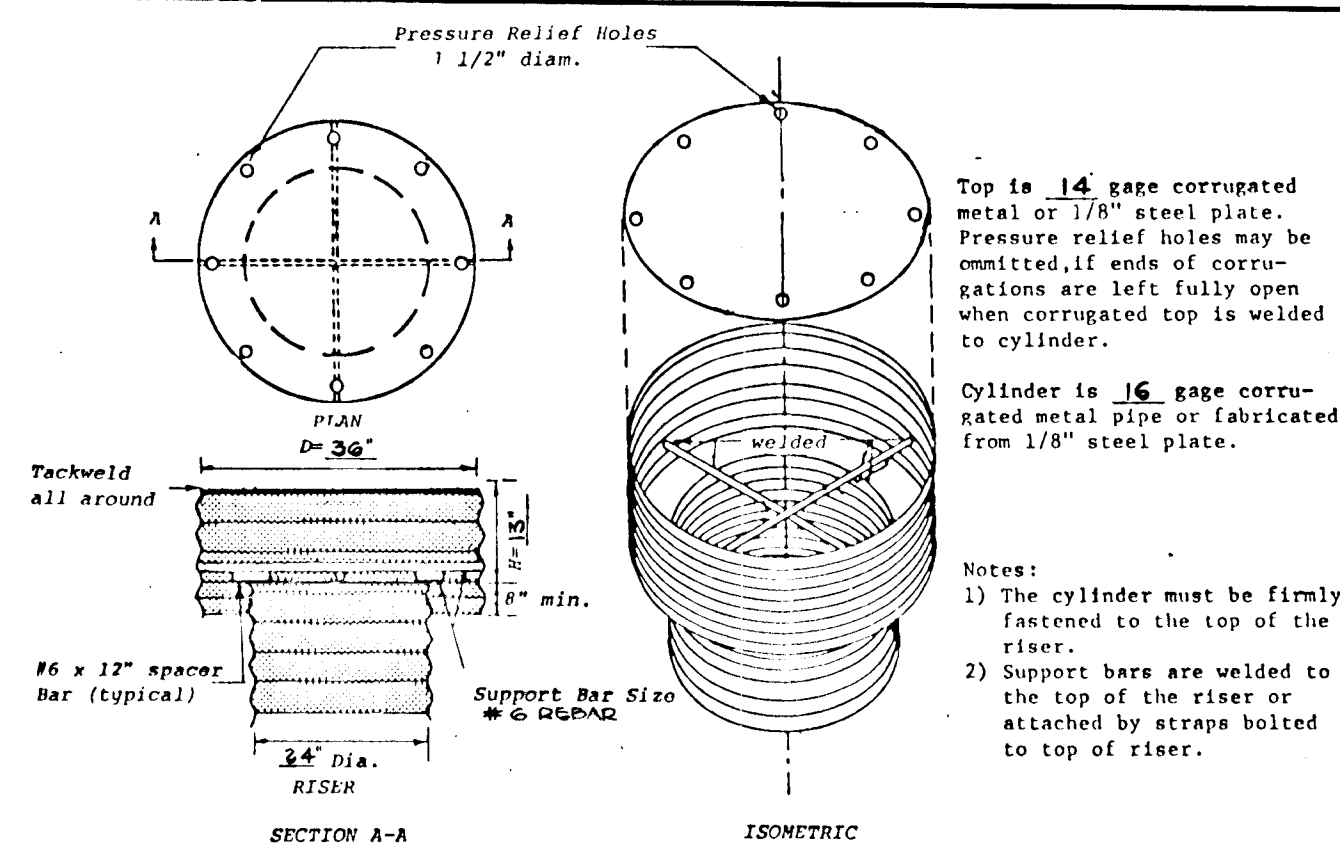
**OWNER AND DEVELOPER**  
PEDDICORD PROPERTY PARTNERSHIP  
C/O HOWARD COUNTY LAND SERVICES  
10176 BALTIMORE NATIONAL PIKE  
ELLICOTT CITY, MARYLAND 21043

**STORM DRAIN PROFILES AND DETAILS**  
**TURF VALLEY OVERLOOK**  
SECTION 1 AREA 2  
LOTS 83-169  
2ND. ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND  
SCALE: AS SHOWN SHEET 9 OF 12 JULY 18, 1986

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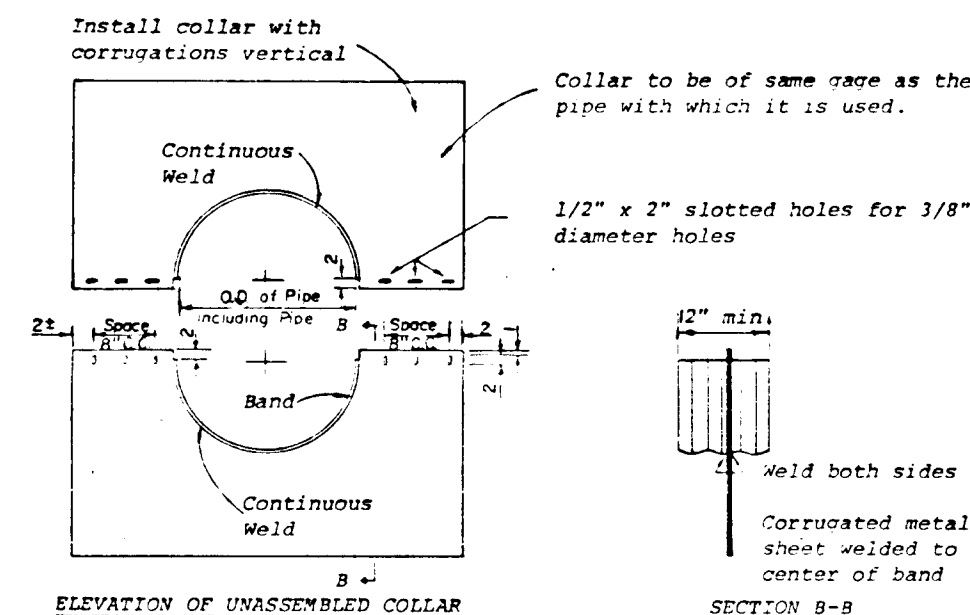
**FISHER, COLLINS AND CARTER, INC.**  
CONSULTING ENGINEERS AND LAND SURVEYORS  
8588 COURT AVENUE  
ELLICOTT CITY, MARYLAND 21043  
TELEPHONE: (301)461-2855





CONCENTRIC TRASH RACK AND ANTI-VORTEX DEVICE DETAIL

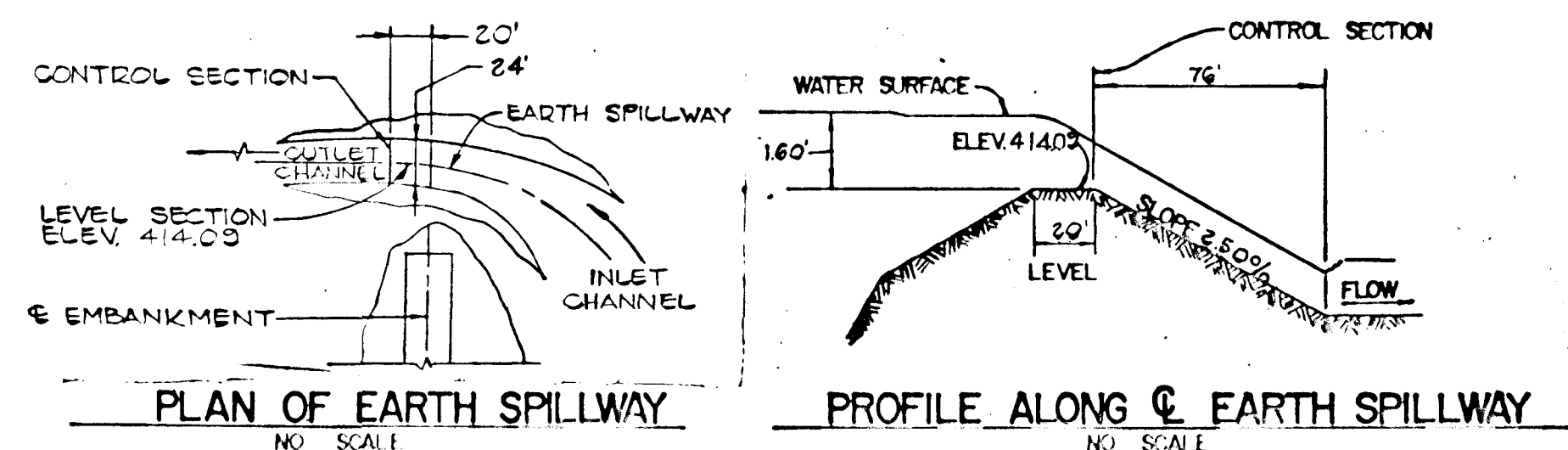
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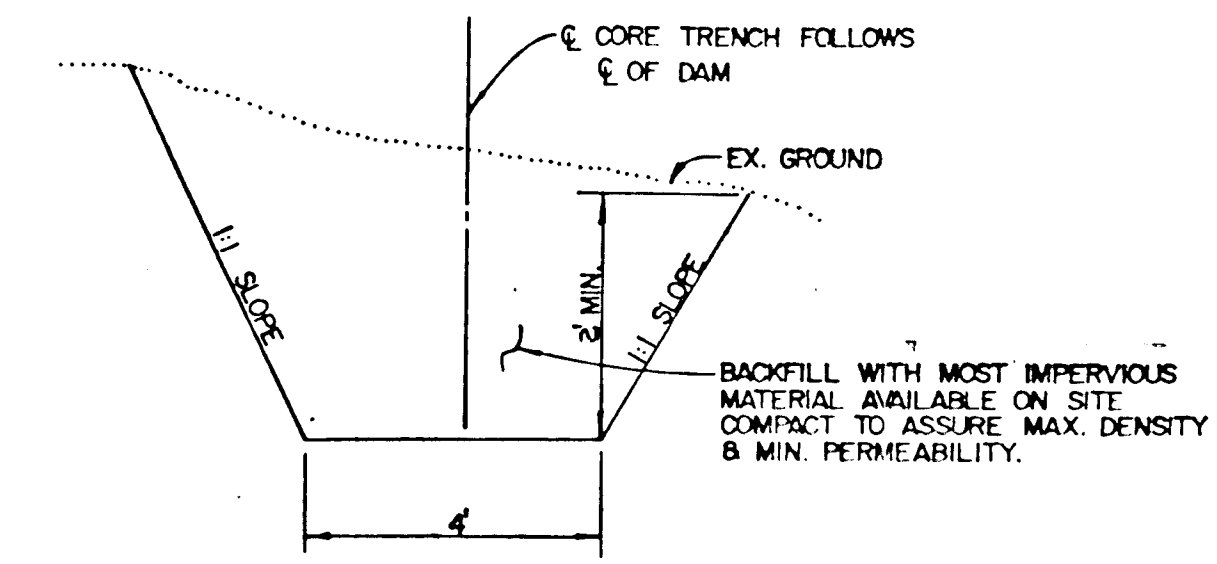
- NOTES FOR COLLARS:
- All materials to be in accordance with construction and construction material specifications.
  - When specified on the plans, coating of collars shall be in accordance with construction and construction material specifications.
  - Unassembled collars shall be marked by painting or tagging to identify matching pairs.
  - The lap between the two half sections and between the pipe and connecting band shall be caulked with asphalt mastic at time of installation.
  - Each collar shall be furnished with two 1/2" diameter rods with standard tank lugs for connecting collars to pipe.

DETAILS OF CORRUGATED METAL ANTI-SEEP COLLAR

NO SCALE



EMERGENCY SPILLWAY DETAILS



CORE TRENCH DETAIL

NO SCALE

CROSS SECTION OF EARTH SPILLWAY AT CONTROL SECTION

NO SCALE

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 COUNTY SOIL CONSERVATION DISTRICT.  
*Charles J. Conroy* 7/26/86  
SIGNATURE OF ENGINEER

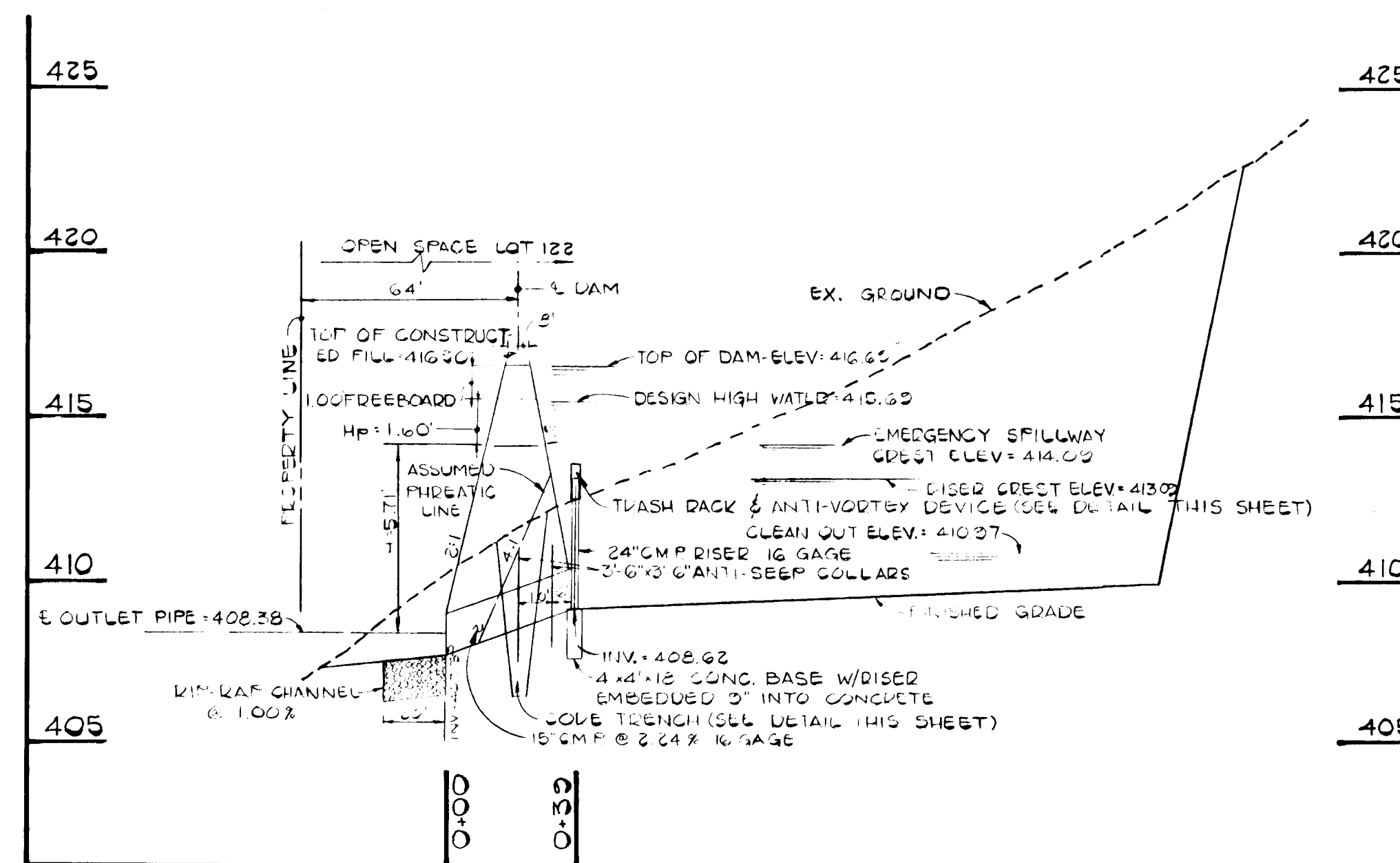
DEVELOPER'S CERTIFICATE  
"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL 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 COUNTY SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY."  
*Donald R. Reuter* 8-1-86  
SIGNATURE OF DEVELOPER

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.  
*James M. Helm* 2-18-87  
U.S. SOIL CONSERVATION SERVICE DATE

THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.  
*Stephen L. Huber* 2-18-87  
DISTRICT ENGINEER HOWARD COUNTY SOIL CONSERVATION DISTRICT DATE

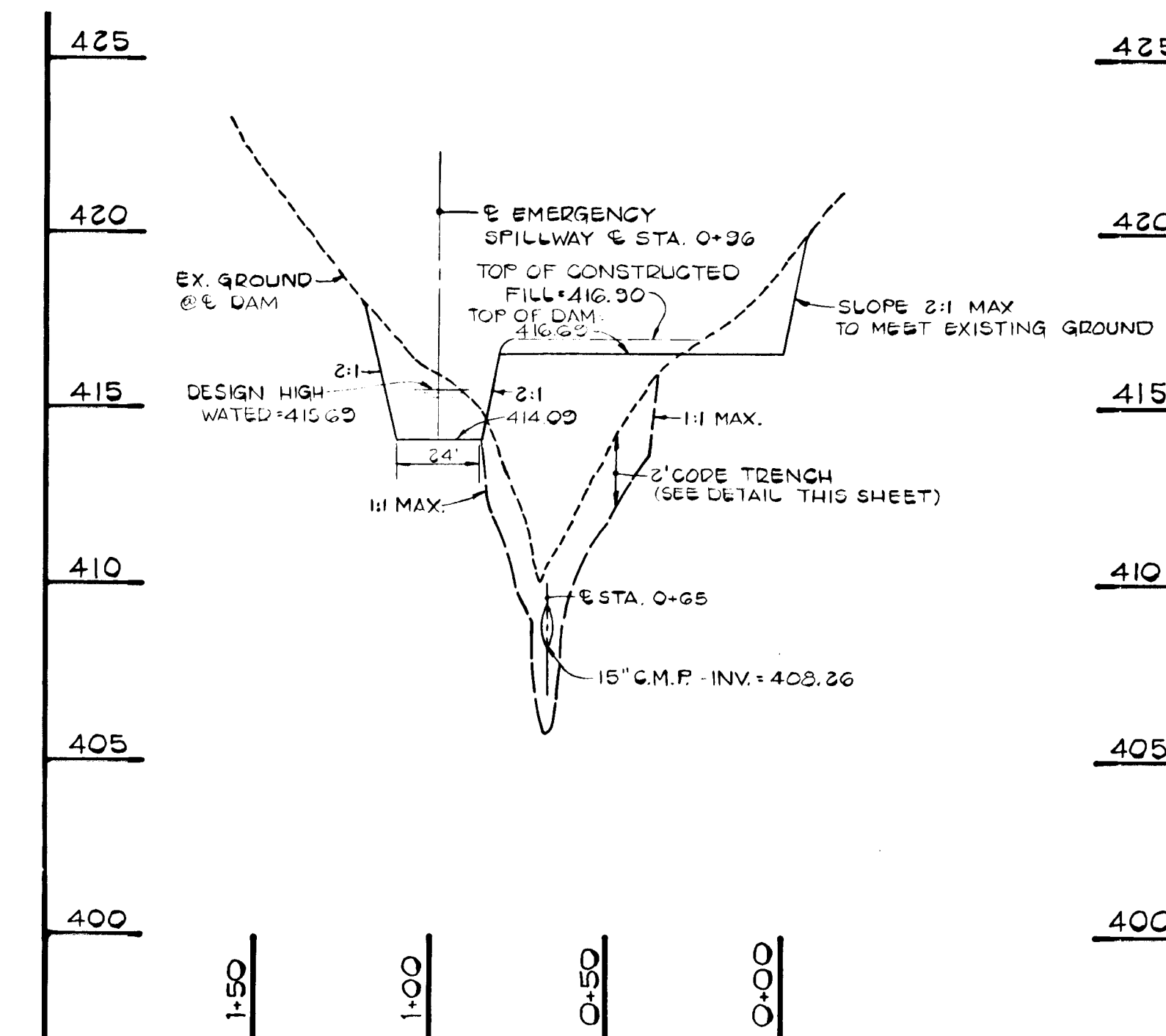
APPROVED: DEPARTMENT OF PUBLIC WORKS  
*William B. Rees* 2-18-87  
CHIEF, BUREAU OF ENGINEERING DATE

APPROVED: OFFICE OF PLANNING AND ZONING  
*John W. Murchison* 2-18-87  
DIRECTOR OF PLANNING AND ZONING ADMINISTRATION DATE



SEDIMENT BASIN PROFILE

SCALE: 1" = 40' HOR.  
1" = 4' VERT.



PROFILE ALONG CENTERLINE OF DAM

SCALE: 1" = 40' HOR.  
1" = 4' VERT.

STATE OF MARYLAND  
DEPARTMENT OF PUBLIC WORKS  
BUREAU OF ENGINEERING  
*Charles J. Conroy* 7/26/86  
CHARLES J. CONROY, SR. DATE

OWNER & DEVELOPER  
PEDDICORD PROPERTY PARTNERSHIP  
C/O HOWARD COUNTY LAND SERVICES  
10176 BALTIMORE NATIONAL PIKE  
ELLCOTT CITY, MARYLAND 21043

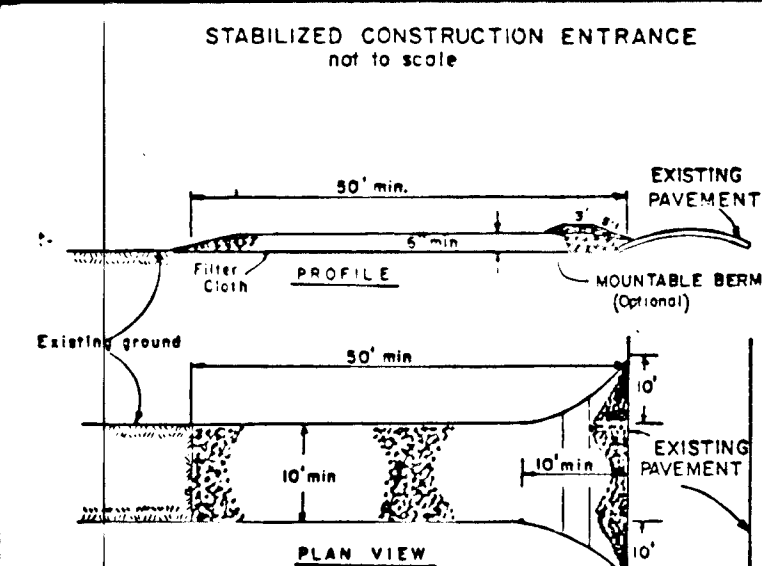
SEDIMENT CONTROL BASIN  
PROFILE AND DETAILS  
TURF VALLEY  
OVERLOOK  
SECTION ONE, AREA TWO  
2ND ELECTION DISTRICT HOWARD COUNTY, MD.  
SCALE: AS SHOWN JULY 18, 1986  
SHEET 10 OF 12

AS-BUILT 11-1-88

F 87-29

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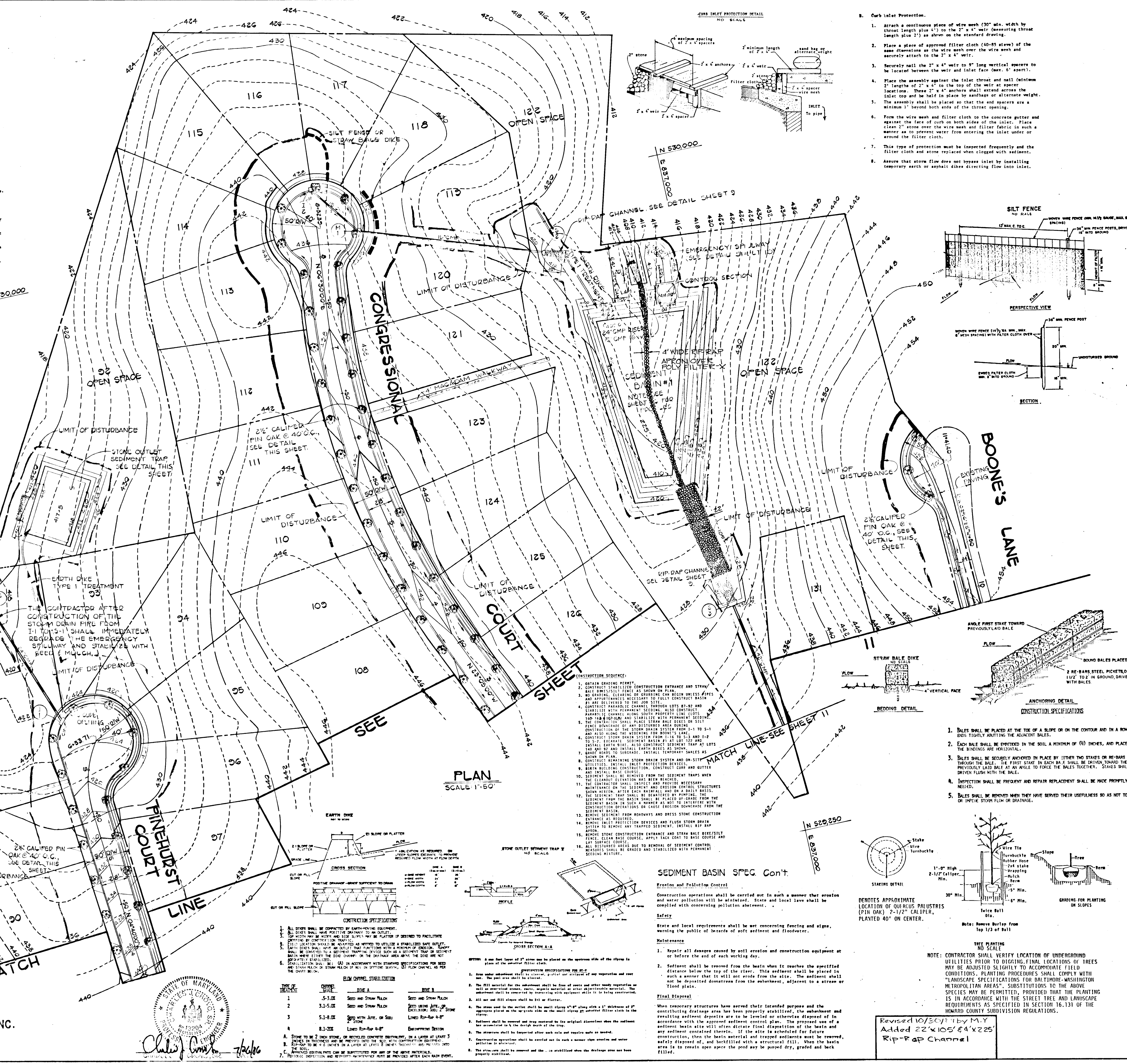
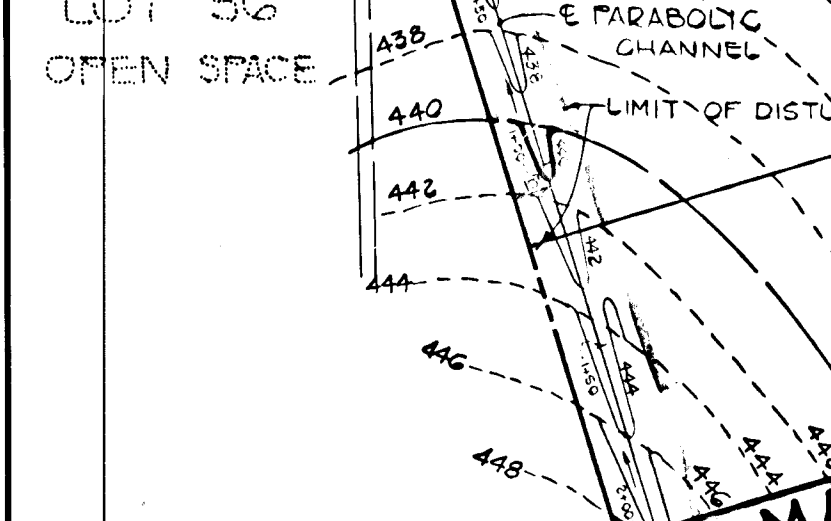
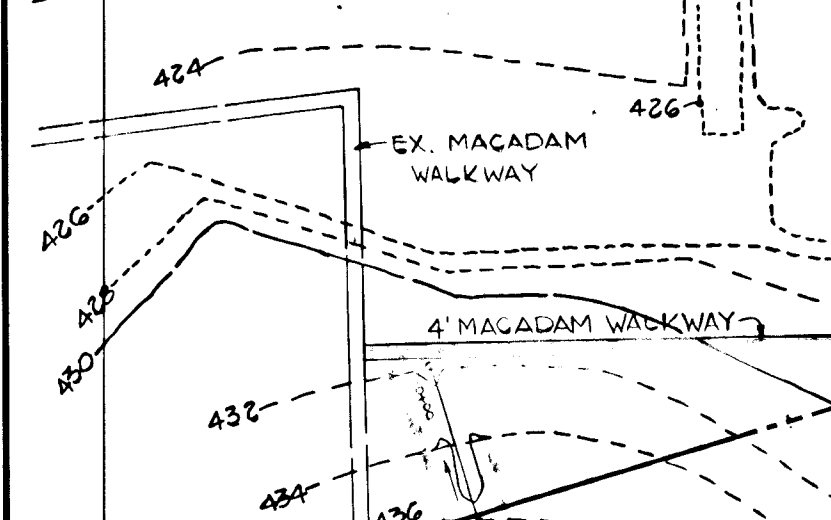
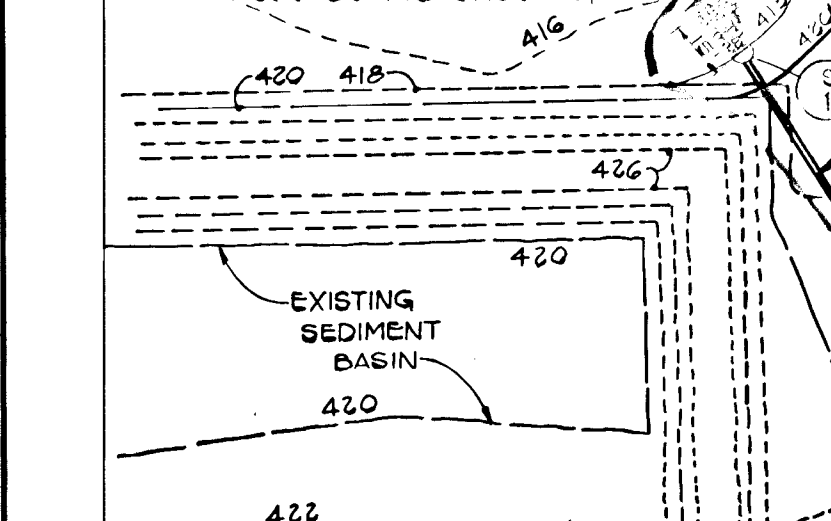




- CONSTRUCTION SPECIFICATIONS**
- Stone Pile - Use 2" stone, or recycled concrete equivalent. Length - As required, but not less than 30 feet (except on a single residential lot where a 20 foot minimum length would apply).
  - Thickness - Not less than six (6) inches.
  - Width - The 150' Foot minimum, 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 portable berm with 3:1 slope will be constructed.
  - Maintenance - The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto public right-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or clearing of any measures used to trap sediment. All sediment applied, dropped, washed or tracked onto public right-of-way must be removed immediately.
  - Washing - Areas shall be cleaned to remove sediment prior to entrance onto public right-of-way. When washing is required, it shall be done on an area stabilized with stone and which drains into an approved sediment trap/ditch device.
  - Periodic inspection and needed maintenance shall be provided after each rain.

**SEDIMENT TRAP DATA**

Drainage Area	4.55 Ac. ±
Volume Required	305 Cu. Yds.
Volume Provided	307 Cu. Yds.
Top Dimensions	75' x 52'
Bottom Dimensions	65' x 42'
Side Slopes	2:1
Depth	2.5'
Weir Crest Elev.	421.0
Bottom Elev.	417.5
Cleanout Elev.	418.75



**ENGINEER'S CERTIFICATE**  
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*Charles J. Carter*  
REGISTERED PROFESSIONAL ENGINEER  
7/24/86

**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."  
*Donald R. Blum*  
SIGNATURE OF DEVELOPER  
8-1-86  
DATE

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.  
*James M. Hales*  
U.S. SOIL CONSERVATION SERVICE  
R-18-87  
DATE

APPROVED: *Stephen L. Auler* 7/18/87  
DISTRICT HOWARD SOIL CONSERVATION DISTRICT  
APPROVED: DEPARTMENT OF PUBLIC WORKS.

APPROVED: *John M. MacPherson* 7-18-87  
CHIEF, BUREAU OF ENGINEERING  
APPROVED: OFFICE OF PLANNING AND ZONING  
*John M. MacPherson* 7-18-87  
CHIEF, BUREAU OF DEVELOPMENT AND ZONING ADMINISTRATION

**SEDIMENT BASIN SPECIFICATIONS**

**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 stone pile fence with ties spaced evenly along the entire length of the filter cloth.
- When two sections of filter cloth abut, each other they shall be overlapped by six inches and folded.
- Maintenance shall be performed as needed and material removed as needed as shown in the silt fence.

**SEDIMENT BASIN SPECIFICATIONS**

**Site Preparation**  
Areas under the embankment shall be cleared, grubbed, and stripped of topsoil to remove trees, vegetation, roots or other objectionable material. In order to facilitate cleanout and protection of the pool area (located at the top of the pipe spillway) will be cleared of all brush, trees, and other objectionable materials.

**Cut-off-Trench**  
A cut-off trench shall be excavated along the centerline of earth fill embankments. The minimum depth shall be two feet. The cut-off trench shall extend up both abutments to the first crest elevation. The minimum bottom width shall be four feet, but not less than the width of the embankment. The side slopes shall be no steeper than 1:1. Connection requirements shall be the same as those for embankments. The trench shall be deviated during the backfilling operation.

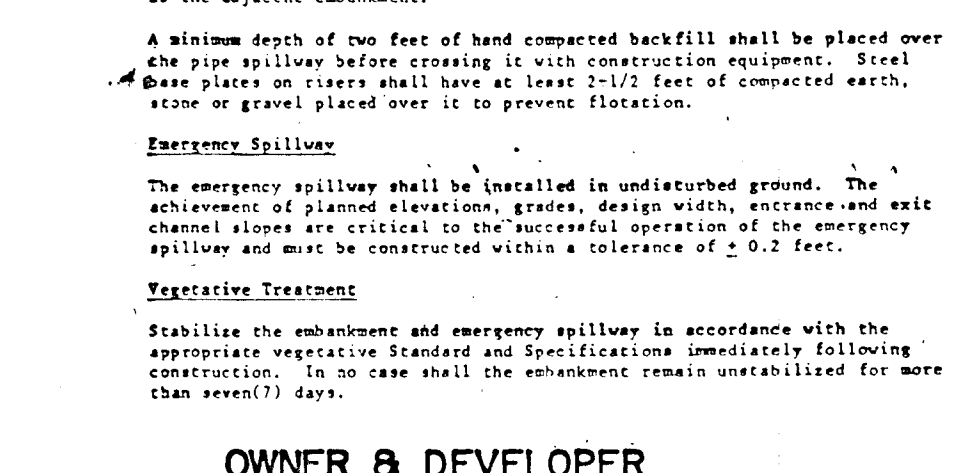
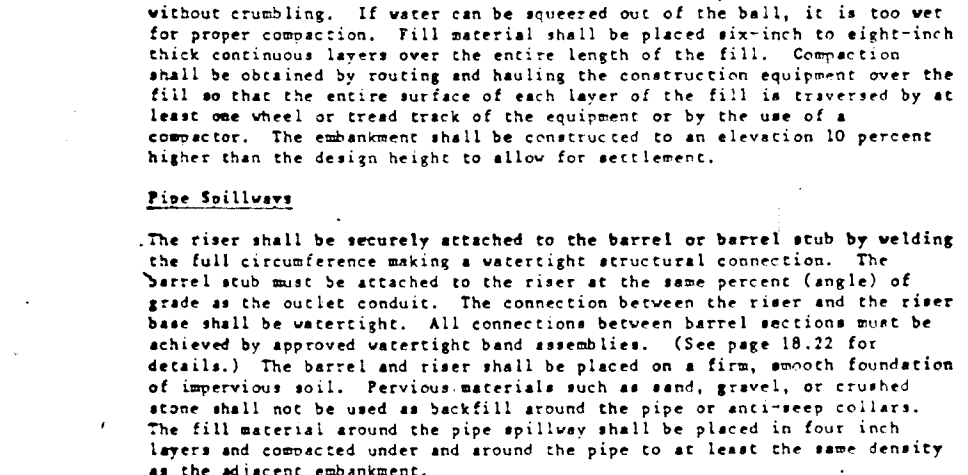
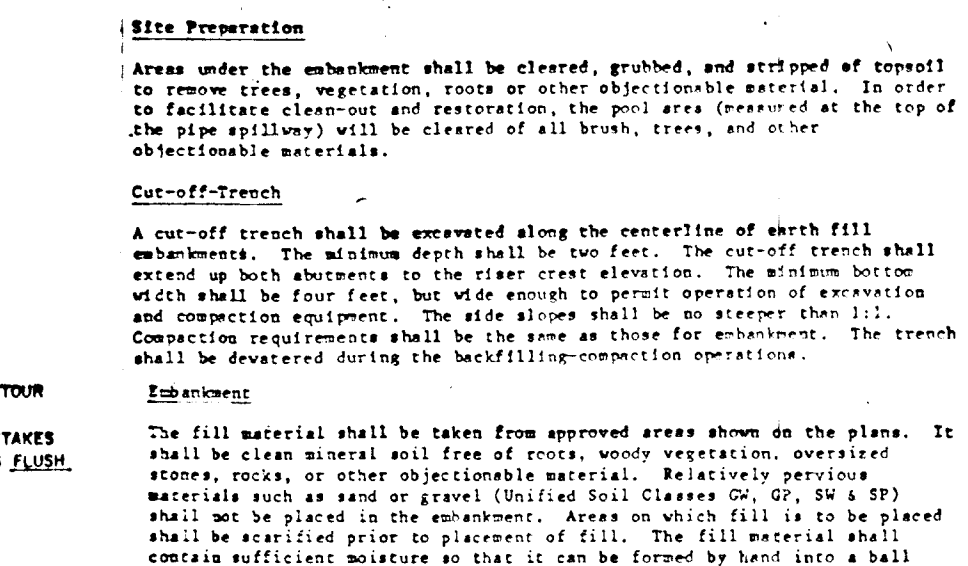
**Embankment**  
The fill material shall be taken from approved areas on the plan. It shall be clean mineral soil free of rocks, woody vegetation, overland roots, rocks, or other objectionable material. The connection between the riser and the riser base shall be watertight. All connections between barrel sections must be achieved by approved watertight assemblies. (See page 18-22 for details.) The barrel and riser shall be placed on a firm, smooth foundation of impervious soil. Previous materials such as sand, gravel, or crushed stone shall not be used as backfill around the pipe or abutment corners. The fill material around the pipe spillway shall be placed in four inch layers and compacted under and around the pipe to at least the same density as the adjacent embankment.

**Final Slopping**  
The riser shall be securely attached to the barrel or barrel stub by welding the full circumference making a watertight connection. The barrel stub must be attached to the riser at the same percent (angle) of grade as the outlet conduit. The connection between the riser and the riser base shall be watertight. All connections between barrel sections must be achieved by approved watertight assemblies. (See page 18-22 for details.) The barrel and riser shall be placed on a firm, smooth foundation of impervious soil. Previous materials such as sand, gravel, or crushed stone shall not be used as backfill around the pipe or abutment corners. The fill material around the pipe spillway shall be placed in four inch layers and compacted under and around the pipe to at least the same density as the adjacent embankment.

**Final Slopping**  
A minimum depth of two feet of hand compacted backfill shall be placed over the pipe spillway before covering it with construction equipment. Steel mesh placed on cover shall have at least 2-1/2 feet of compacted mesh, stone or gravel placed over it to prevent flotation.

**Emergency Spillway**  
The emergency spillway shall be installed in undisturbed ground. The achievement of planned elevations, grades, design width, entrance and exit channel slopes are critical to the successful operation of the emergency spillway and must be constructed within a tolerance of ± 0.2 feet.

**Vegetative Treatment**  
Stabilize the embankment and emergency spillway in accordance with the appropriate vegetative Standard and Specifications immediately following construction. In no case shall the embankment remain undisturbed for more than seven (7) days.



**OWNER & DEVELOPER**  
PEDDICO PROPERTY PARTNERSHIP  
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10175 BALTIMORE NATIONAL BLVD  
ELLICOTT CITY, MARYLAND 21043

**TURF VALLEY OVERLOOK**  
SECTION 1 AREA 2  
LOTS 83-109  
2ND ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND  
SCALE: AS SHOWN SHEET 12 OF 12 JULY 18, 1986

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**FISHER, COLLINS AND CARTER, INC.**  
CONSULTING ENGINEERS AND LAND SURVEYORS  
8300 COURT AVENUE  
ELLICOTT CITY, MARYLAND 21043  
TEL: HOME (301) 461-2855

*Charles J. Carter* 7/24/86

**ELM CHIPPERS SPECIFICATIONS**

TYPE	CHIPS	PILE A	PILE B
1	5-3/8" DIA	SEED AND STRAW PILE	SEED AND STRAW PILE
2	3-1/2" DIA	SEED AND STRAW PILE	SEED AND STRAW PILE
3	5-1/8" DIA	SEED WITH LIME, OR SEED WITH LIME AND 1/2" STONE	SEED WITH LIME, OR SEED WITH LIME AND 1/2" STONE
4	8-1/2" DIA	LIME AND 1/2" STONE	LIME AND 1/2" STONE

**EMBRANKMENT SPECIFICATIONS**

- STONE TO BE 2" DIA STONE, OR RECYCLED CONCRETE EQUIVALENT, IN A LAYER AT LEAST 3" THICK IN THICKNESS AND BE PLACED INTO THE SOIL WITH CONSTRUCTION EQUIPMENT.
- RECYCLED CONCRETE EQUIVALENT SHALL BE IN A LAYER AT LEAST 3" THICK IN THICKNESS AND BE PLACED INTO THE SOIL WITH CONSTRUCTION EQUIPMENT.
- THE SOIL SHALL BE STABILIZED WITH PERMANENT SEEDING MIXTURE.
- PERIODIC INSPECTION AND MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN EVENT.

