

APPROVED: DEPARTMENT OF PUBLIC WORKS
 CHIEF, BUREAU OF ENGINEERING
 3-1-87
 DATE

APPROVED: OFFICE OF PLANNING AND ZONING
 CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION
 3-1-87
 DATE

CHERRYTREE FARM

SECTION 1 AREA 2

ROAD AND STORM DRAIN CONSTRUCTION DRAWINGS

INDEX OF SHEETS

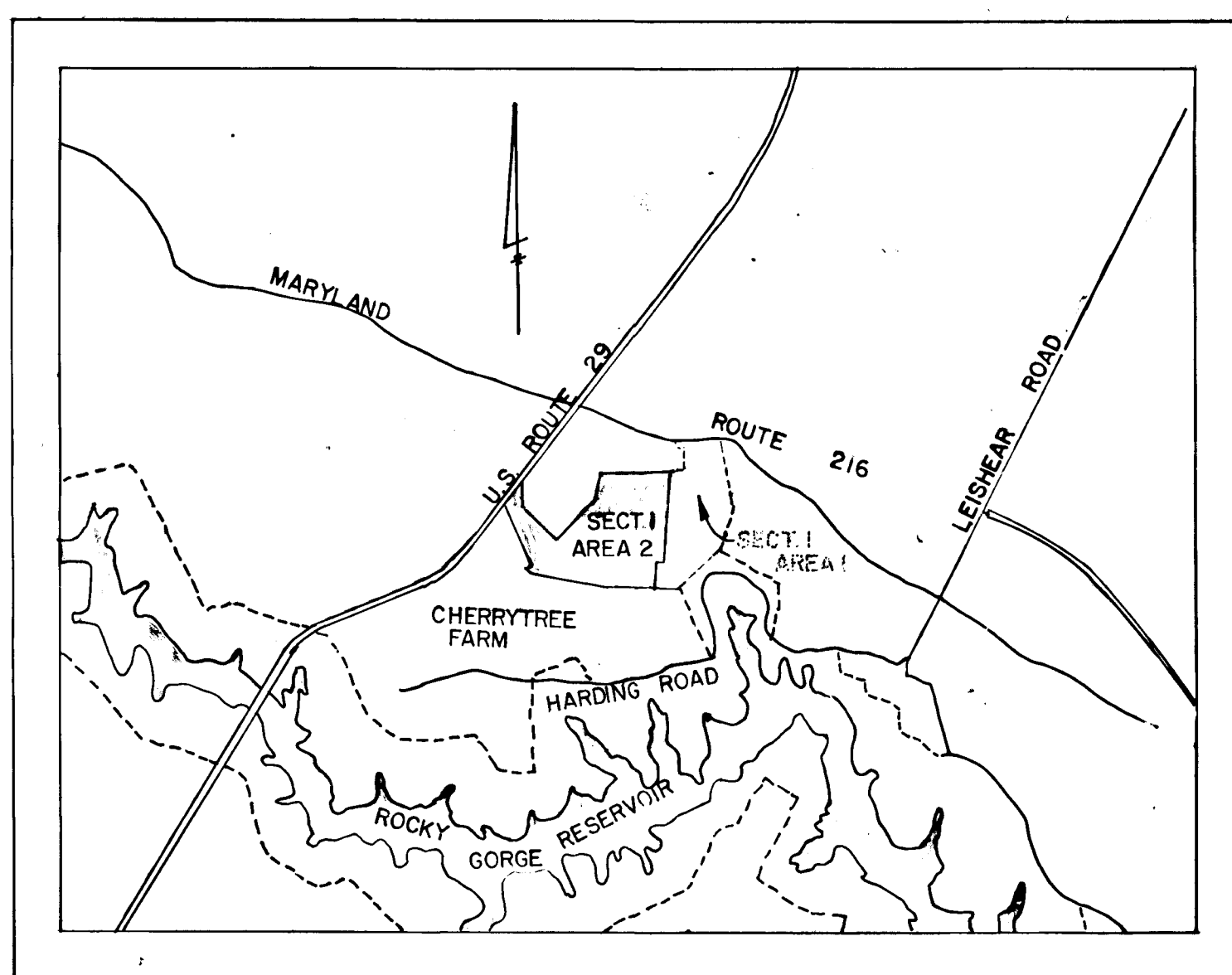
1. TITLE SHEET
2. SAND CHERRY LANE AND SPRING BLOSSOM COURT, PLAN AND PROFILE
3. SAND CHERRY LANE, PLAN AND PROFILE
4. SAND CHERRY LANE, PLAN AND PROFILE
5. EARLY BUD WAY, PLAN AND PROFILE
6. SWEET CHERRY COURT, PLAN AND PROFILE
7. CHERRY LAUREL COURT, PLAN AND PROFILE
8. FLOWERING CHERRY LANE, PLAN AND PROFILE, ROAD SECTIONS AND DETAILS
9. STORM DRAIN PROFILES AND DETAILS
10. STORM DRAIN PROFILES SEDIMENT BASIN & DETAILS
11. DRAINAGE AREA MAP, SEDIMENT CONTROL DETAILS AND SPECIFICATIONS
12. SAND CHERRY LANE AND SPRING BLOSSOM COURT STREET TREE AND GRADING PLAN.
13. SAND CHERRY LANE STREET TREE AND GRADING PLAN.
14. SAND CHERRY LANE STREET TREE AND GRADING PLAN.
15. EARLY BUD WAY STREET TREE AND GRADING PLAN.
16. SWEET CHERRY COURT STREET TREE AND GRADING PLAN.
17. CHERRY LAUREL COURT STREET TREE AND GRADING PLAN.
18. FLOWERING CHERRY LANE STREET TREE AND GRADING PLAN.
19. TEMPORARY SEDIMENT BASIN AND DETAILS.
20. WETLAND MITIGATION BASIN DRAINAGE AREA MAP AND DETAILS

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 STANDARD 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 INSPECTIONS AT LEAST 3 DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS. TELEPHONE: 792-7272
7. Ⓞ DENOTES STREET TREES AS REQUIRED BY SECTION 16.131 OF THE HOWARD COUNTY SUBDIVISION AND LAND DEVELOPMENT REGULATIONS. FOR STREET TREE PLAN PLANTING DETAIL SEE SHEET 12

STREET LIGHTS

- ⊕-175-WATT MERCURY VAPOR LAMP MOUNTED ON A 14-FT. GRAY FIBERGLASS POLE AT THE FOLLOWING LOCATIONS:
- 1.) AT THE INTERSECTION OF SAND CHERRY LANE AND EARLY BUD WAY, WEST.
 - 2.) AT THE INTERSECTION OF SAND CHERRY LANE AND FLOWERING CHERRY LANE, SOUTH.
 - 3.) AT THE INTERSECTION OF SAND CHERRY LANE AND CHERRY LAUREL COURT, NORTH.
 - 4.) AT THE INTERSECTION OF SAND CHERRY LANE AND SWEET CHERRY COURT, NORTH.
 - 5.) ON SAND CHERRY LANE AT STATION 8+90 LEFT, 26+20, LEFT.
 - 6.) ON EARLY BUD WAY AT STATION 9+00 RIGHT, 5+20 RIGHT.
 - 7.) ON SWEET CHERRY COURT AT STATION 4+70 LEFT.
 - 8.) ON FLOWERING CHERRY LANE AT STATION 4+90 LEFT.



VICINITY MAP
 SCALE 1" = 2640'

OWNER AND DEVELOPER
 CHERRYTREE VENTURE
 SUITE 805
 7979 OLD GEORGETOWN ROAD
 BETHESDA, MARYLAND 20814

STATE OF MARYLAND
 CHARLES J. GROVO, SR.
 3/31/87
 DATE

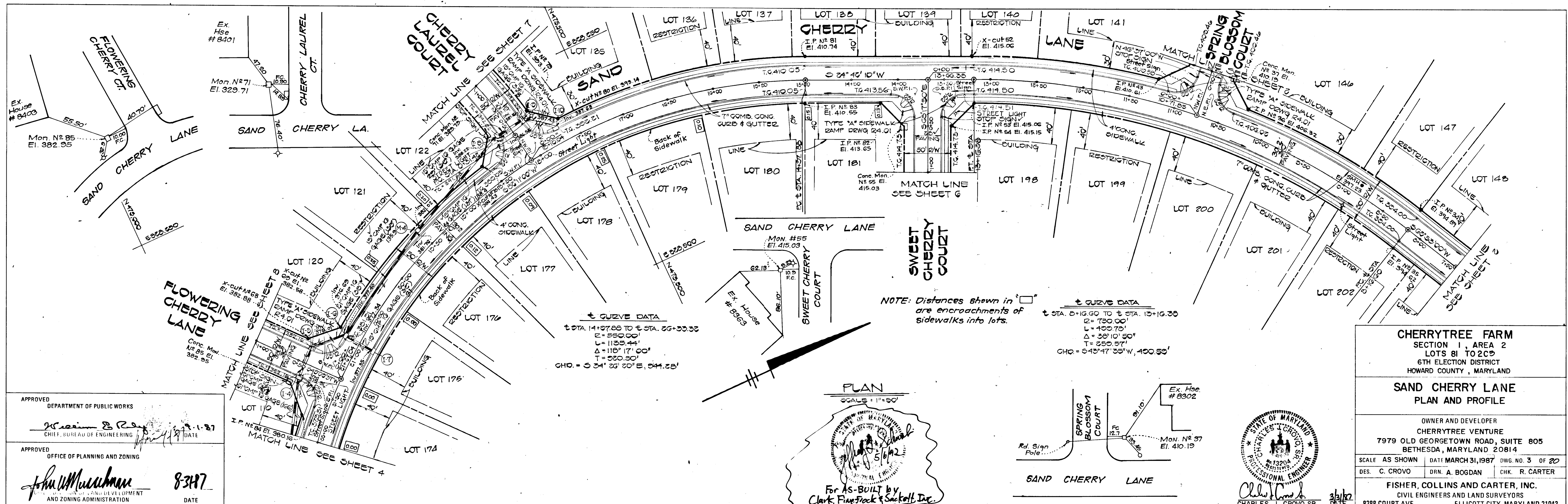
For AS-BUILT by
 Clark, Fierrock & Sackett, Inc.

FISHER, COLLINS AND CARTER INC.
 CIVIL ENGINEERS AND LAND SURVEYORS
 8588 COURT AVE
 ELLICOTT CITY, MARYLAND 21043

DATE	
BY	
REVISIONS	
NO.	
DESCRIPTION	
DATE	
BY	
DATE	
BY	
DATE	

APPROVED DEPARTMENT OF PUBLIC WORKS
William B. Reay 1-1-87
 CHIEF, BUREAU OF ENGINEERING

APPROVED OFFICE OF PLANNING AND ZONING
John W. Muehlen 8-31-87
 AND ZONING ADMINISTRATION



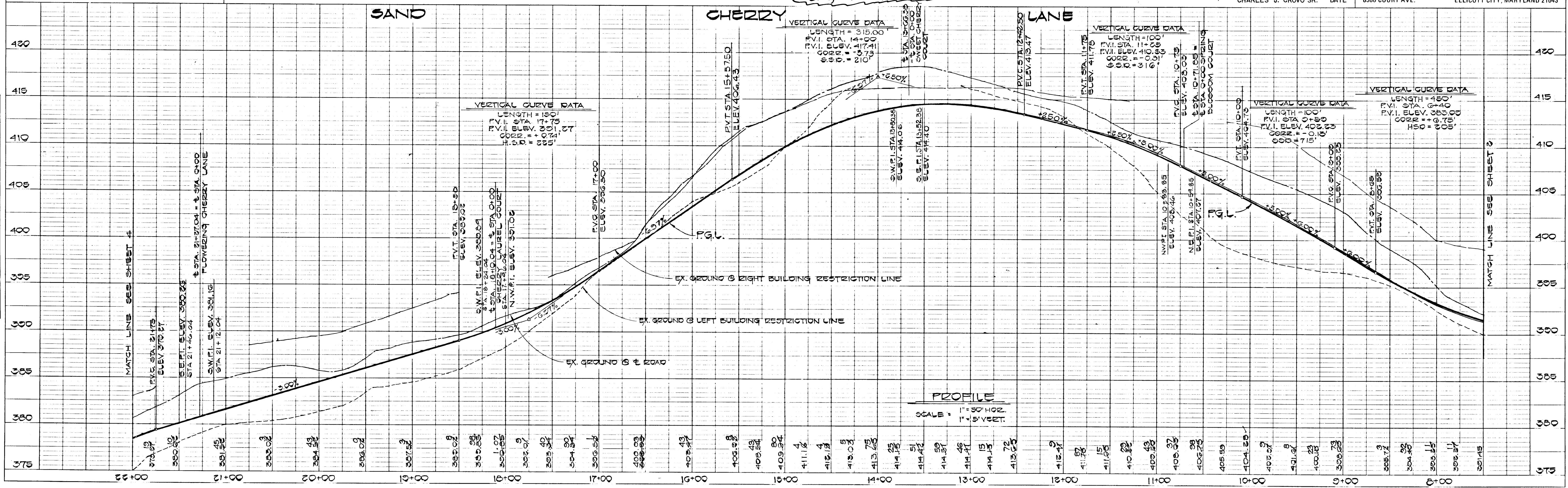
CERRYTREE FARM
 SECTION 1, AREA 2
 LOTS 81 TO 209
 6TH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

SAND CHERRY LANE
 PLAN AND PROFILE

OWNER AND DEVELOPER
 CERRYTREE VENTURE
 7979 OLD GEORGETOWN ROAD, SUITE 805
 BETHESDA, MARYLAND 20814

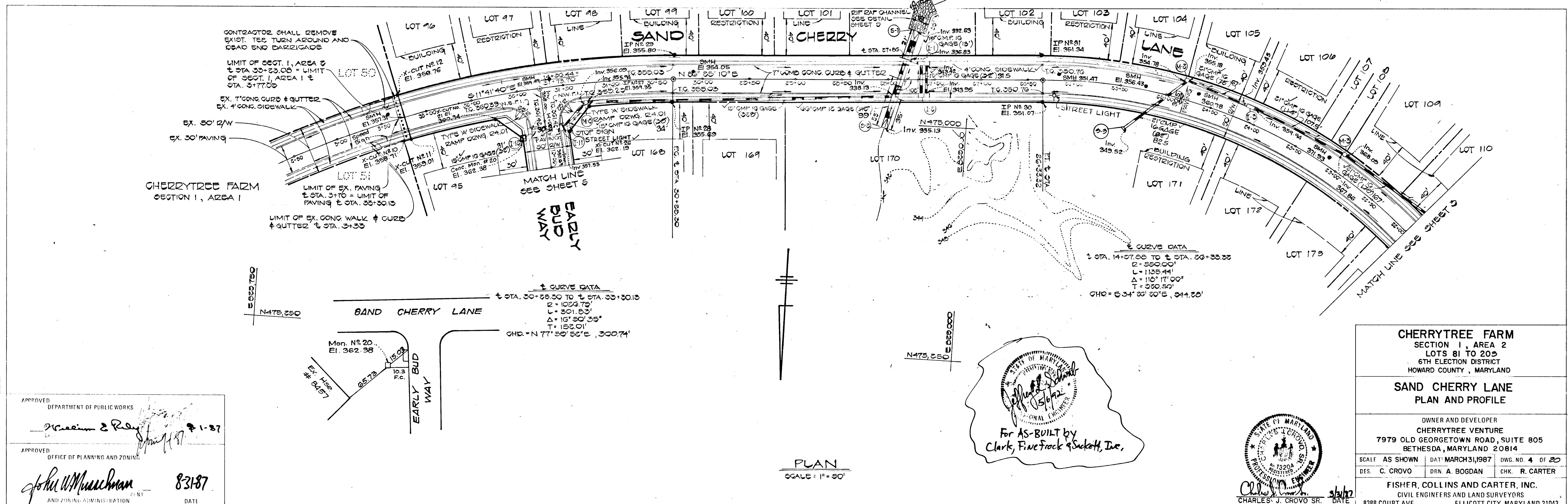
SCALE AS SHOWN DATE MARCH 31, 1987 DWG. NO. 3 OF 20
 DES. C. CROVO DRN. A. BOGDAN CHK. R. CARTER

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



1109

PLAN
 NOTE BOOK
 NO. 1
 DATE



APPROVED
 DEPARTMENT OF PUBLIC WORKS
William E. Riley 3-1-87

APPROVED
 OFFICE OF PLANNING AND ZONING
John W. Murchman 83187
 AND ZONING ADMINISTRATION DATE

For AS-BUILT by
 Clark, Fine, Brock & Sackett, Inc.

STATE OF MARYLAND
 PROFESSIONAL ENGINEER
 CHARLES J. GROVO SR. 34187
 DATE

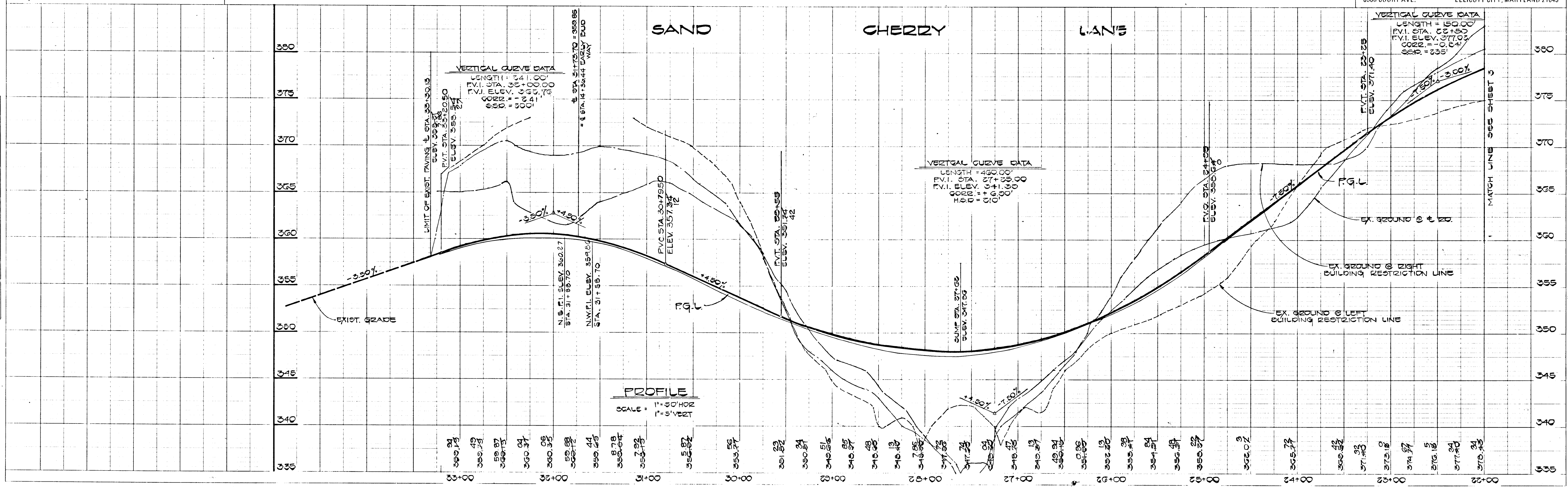
CHERRYTREE FARM
 SECTION 1, AREA 2
 LOTS 81 TO 205
 6TH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

SAND CHERRY LANE
 PLAN AND PROFILE

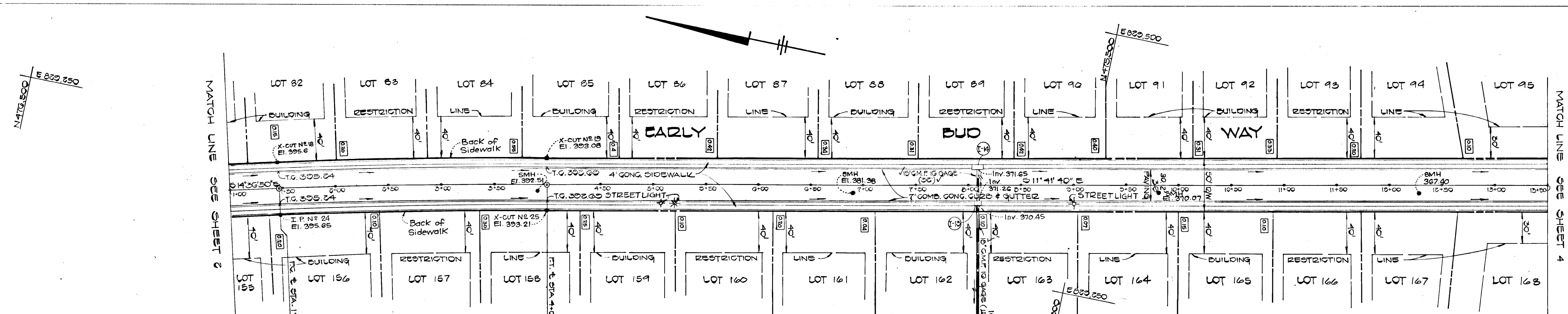
OWNER AND DEVELOPER
 CHERRYTREE VENTURE
 7979 OLD GEORGETOWN ROAD, SUITE 805
 BETHESDA, MARYLAND 20814

SCALE AS SHOWN DATE MARCH 31, 1987 DWG. NO. 4 OF 20
 DES. C. GROVO DRN. A. BOGDAN CHK. R. CARTER

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



1109



± CURVE DATA
 ± STA. 1+45.30 TO ± STA. 4+00.15
 R = 5000.00'
 L = 254.77'
 Δ = 2° 55' 10"
 T = 127.41'
 CHD. = 0° 10' 00" 15" E 254.74'

NOTE: Distances shown in "□" are encroachments of sidewalks into lots.

RIP RAP CHANNEL
 SEE DETAIL SHEET 9

EXIST. STREAM

PLAN
 SCALE = 1" = 50'

For AS-BUILT by
Clark, Fineback & Sackett, Inc.

STATE OF MARYLAND
 CHARLES J. CROVO SR.
 PROFESSIONAL ENGINEER
 3/21/87

CHERRYTREE FARM
 SECTION 1, AREA 2
 LOTS 81 TO 205
 6TH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

EARLY BUD WAY
 PLAN AND PROFILE

OWNER AND DEVELOPER
 CHERRYTREE VENTURE
 7979 OLD GEORGETOWN ROAD, SUITE 805
 BETHESDA, MARYLAND 20814

SCALE AS SHOWN DATE: MARCH 31, 1987 DWG. NO. 5 OF 20
 DES. C. CROVO DRN. A. BOGDAN CHK. R. CARTER

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 CIVIL ENGINEERS AND LAND SURVEYORS
 8388 COURT AVE. ELLICOTT CITY, MARYLAND 21043

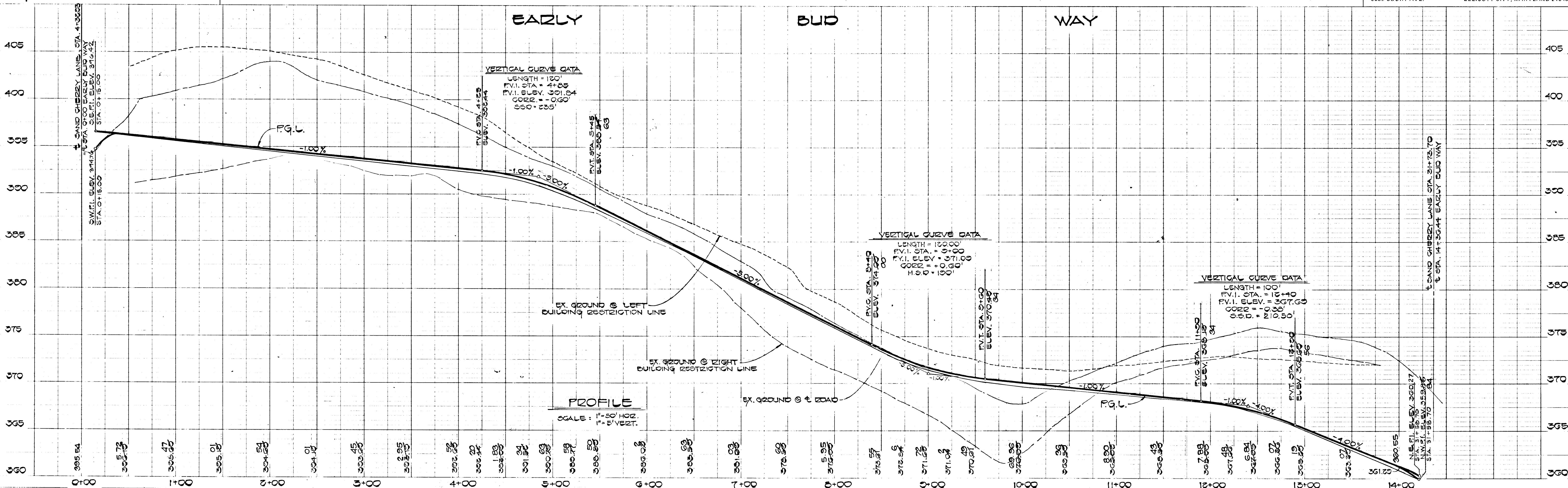
APPROVED
 DEPARTMENT OF PUBLIC WORKS

APPROVED
 OFFICE OF PLANNING AND ZONING

APPROVED
 AND ZONING ADMINISTRATION

DATE: 9-1-87

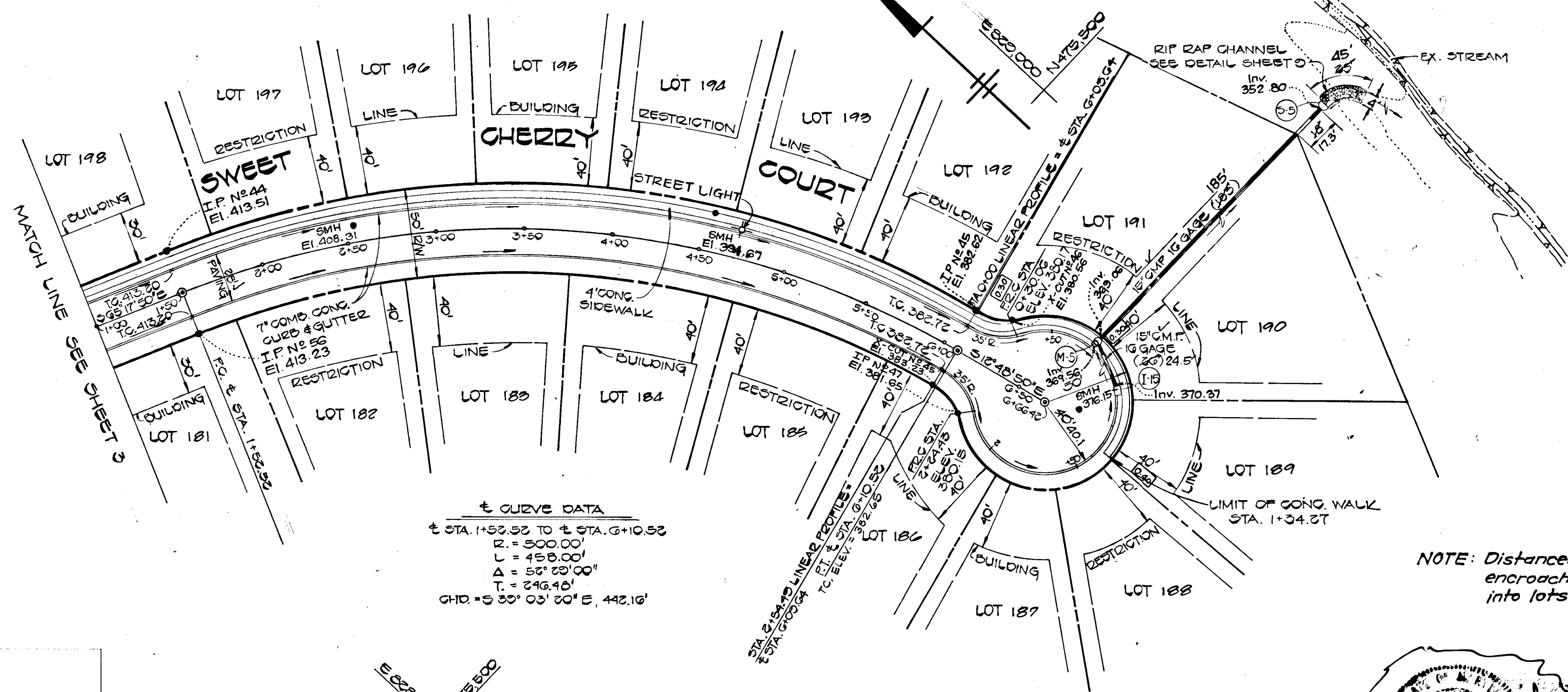
831-87



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

F85-92 AS-BUILT

1109



± CURVE DATA
 ± STA. 1+53.52 TO ± STA. 6+10.52
 R = 500.00'
 L = 450.00'
 Δ = 50° 29' 00"
 T = 245.40'
 CHD = 3° 30' 03" 50' E, 442.16'

NOTE: Distances shown in "□" are encroachments of sidewalks into lots.

PLAN
 SCALE = 1" = 50'

APPROVED
 DEPARTMENT OF PUBLIC WORKS
 [Signature] 3-1-87
 OFFICE OF PLANNING AND ZONING
 [Signature] 3-31-87
 AND ZONING ADMINISTRATION DATE

For AS-BUILT by
 Clark, Finckel & Sackett, Inc.



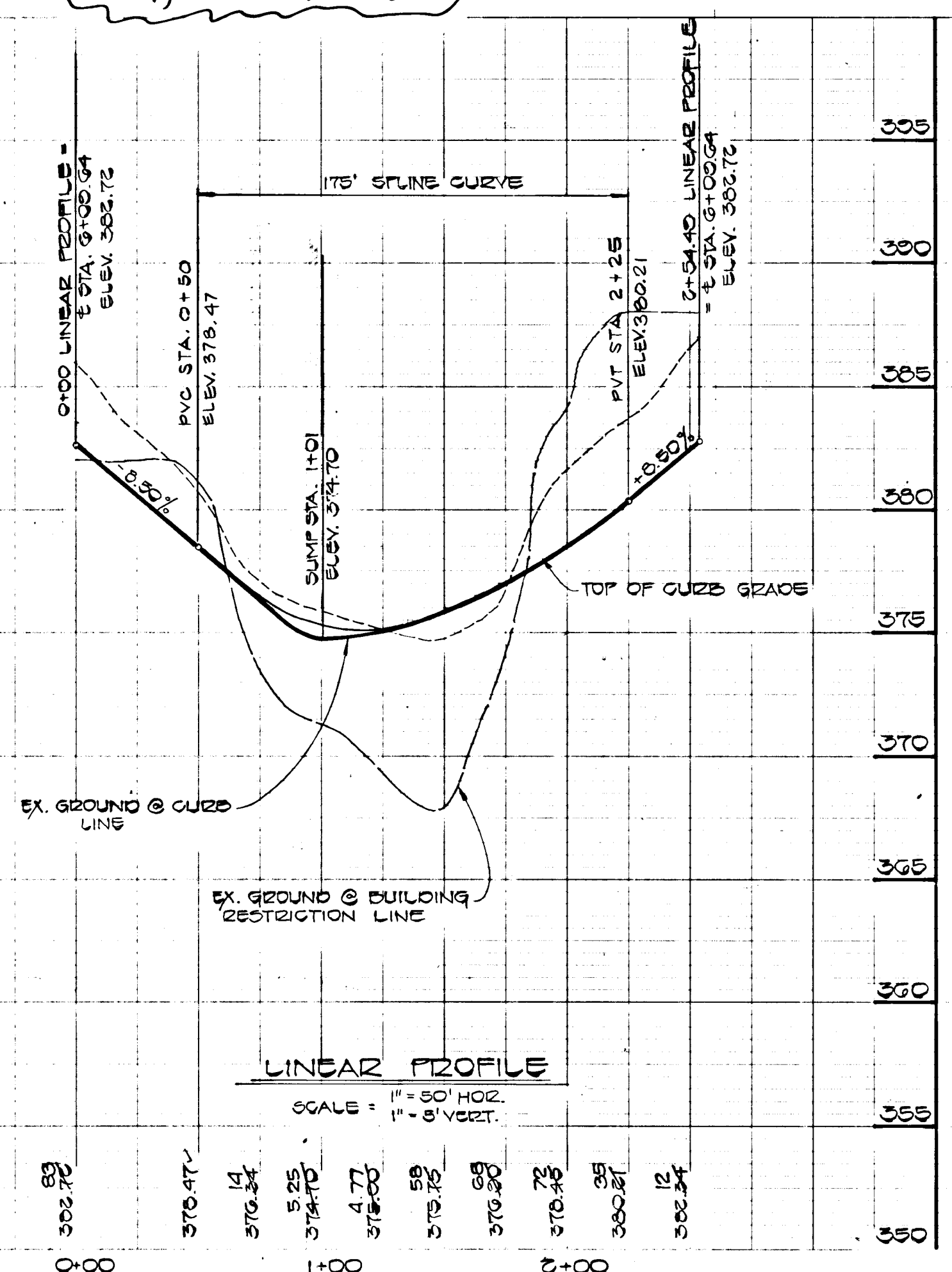
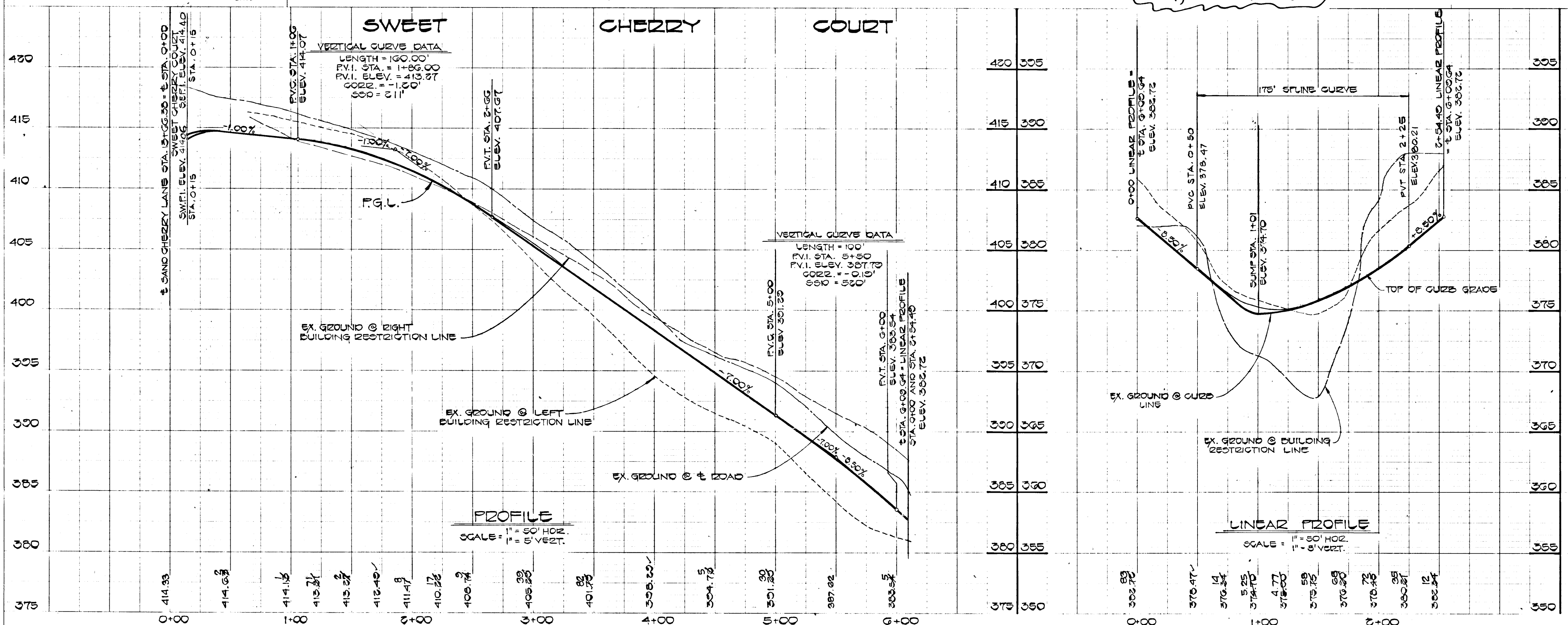
CHERRYTREE FARM
 SECTION 1 AREA 2
 LOTS 81 TO 202
 6TH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

SWEET CHERRY COURT
 PLAN AND PROFILE

OWNER AND DEVELOPER
 CHERRYTREE VENTURE
 7979 OLD GEORGETOWN ROAD, SUITE 805
 BETHESDA, MARYLAND 20814

SCALE AS SHOWN DATE MARCH 31, 1987 DWG. NO. 6 OF 20
 DES. C. CROVO DRN. A. BOGDAN CHK. R. CARTER

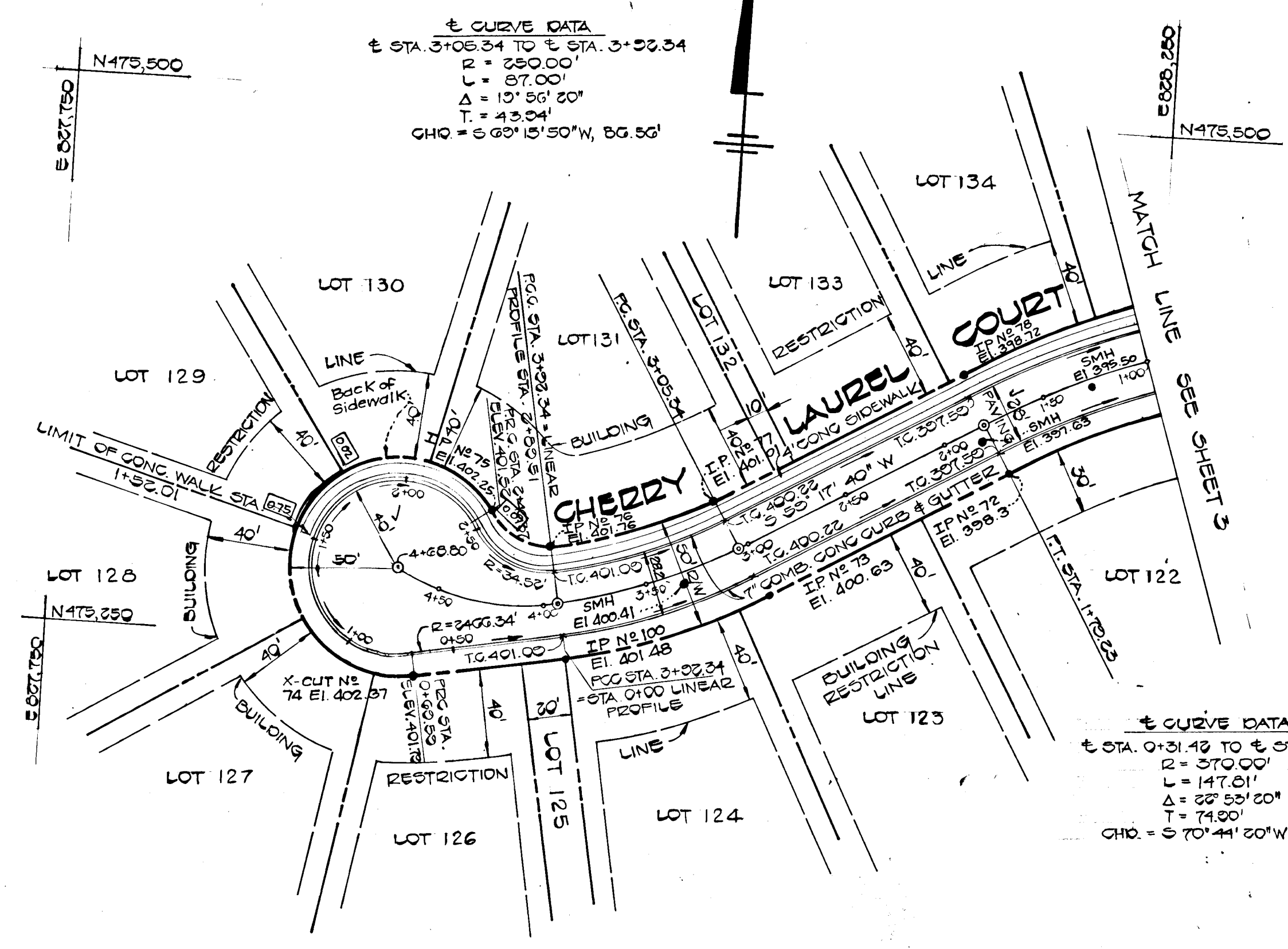
FISHER, COLLINS AND CARTER, INC.
 CIVIL ENGINEERS AND LAND SURVEYORS
 8388 COURT AVE. ELLICOTT CITY, MARYLAND 21043



1109

DATE: 3/1/87
 DRAWN BY: [Signature]
 CHECKED BY: [Signature]
 NO. OF SHEETS: 7
 SHEET NO.: 3

APPROVED DEPARTMENT OF PUBLIC WORKS
 [Signature] 3-1-87
 APPROVED OFFICE OF PLANNING AND ZONING
 [Signature] 8-31-87
 AND ZONING REGULATION NO. DATE



NOTE: Distances shown in " " are encroachments of sidewalks into lots.

PLAN
 SCALE: 1" = 50'

CHERRYTREE FARM
 SECTION 1, AREA 2
 LOTS 81 TO 203
 6TH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

CHERRY LAUREL COURT
 PLAN AND PROFILE

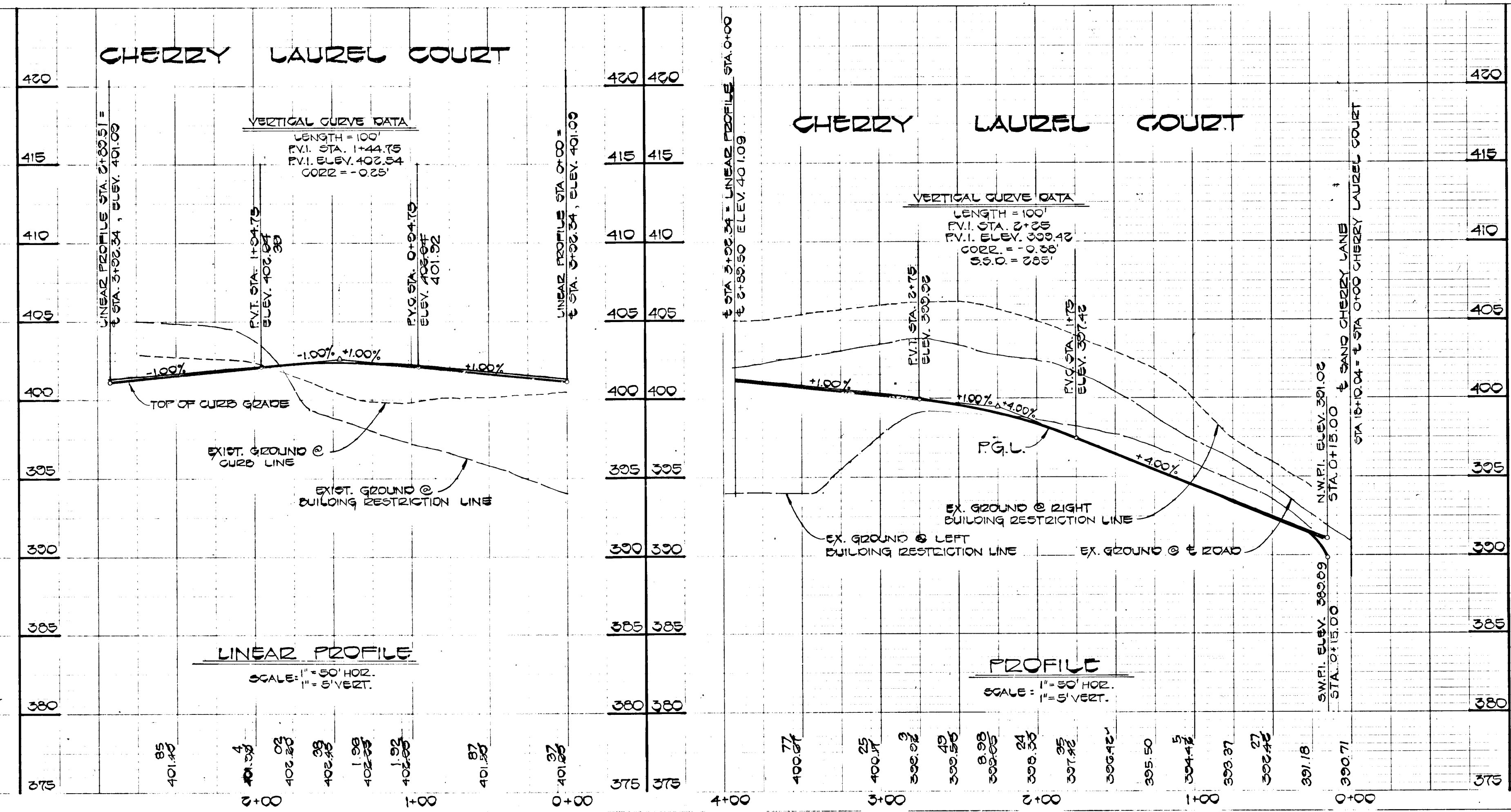
OWNER AND DEVELOPER
 CHERRYTREE VENTURE
 7979 OLD GEORGETOWN ROAD, SUITE 805
 BETHESDA, MARYLAND 20814

SCALE AS SHOWN DATE MARCH 31, 1987 DWG. NO. 7 OF 20
 DES. C. CROVO DRN. A. BOGDAN CHK. R. CARTER

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

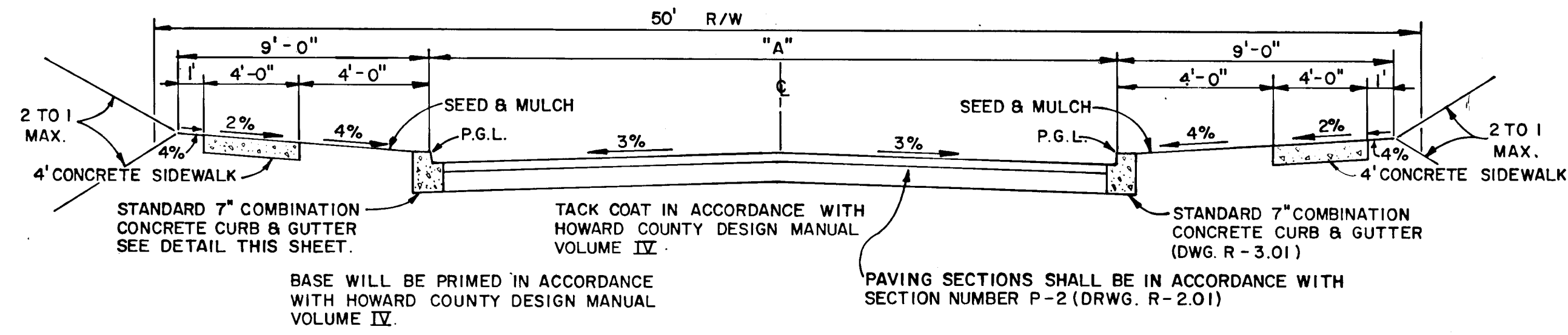
3/31/87 DATE
 CHARLES J. CROVO SR. [Signature]

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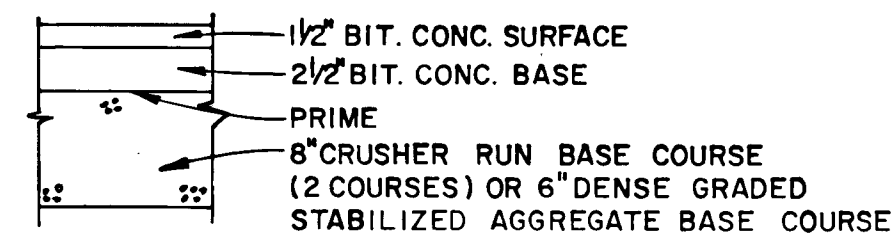
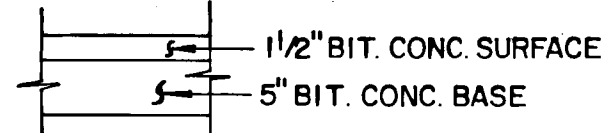
ALL MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL - VOLUME IV - STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION.

ZONED R-20



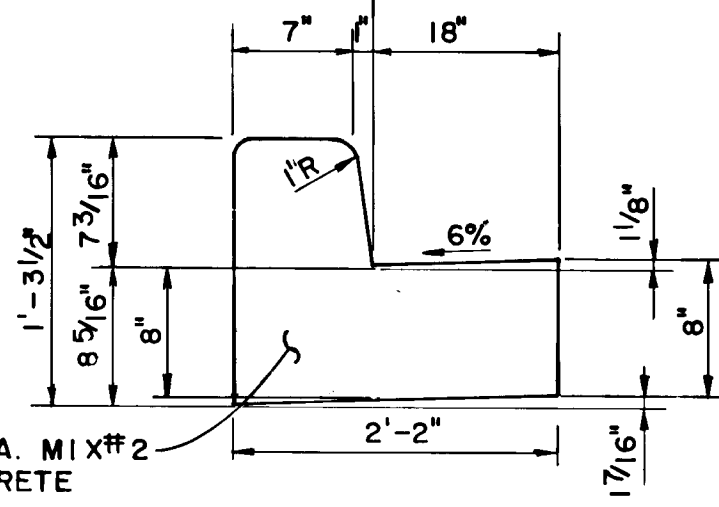
TYPICAL ROADWAY SECTION
NO SCALE

ROAD NAME	CLASSIFICATION	A	STA LIMITS	DESIGN SPEED
SAND CHERRY LANE	LOCAL	30'	2+27 TO 33+30.31	30 MPH
FLOWERING CHERRY LANE	LOCAL	30'	0+00 TO 5+32.00	30 MPH
EARLY BUD WAY	LOCAL	30'	0+00 TO 31+73.70	30 MPH
SWEET CHERRY COURT	CULDESAC	28'	0+00 TO 6+10.52	30 MPH
SPRING BLOSSOM COURT	CULDESAC	24'	0+00 TO 0+69.55	25 MPH
CHERRY LAUREL COURT	CULDESAC	28'	0+00 TO 3+92.34	25 MPH



PAVING SECTION P-2
NO SCALE

PAVEMENT WIDTH INDICATED ON TYPICAL STREET SECTION TO BE MEASURED TO THIS POINT.



STANDARD 7" COMBINATION CURB AND GUTTER
NO SCALE

APPROVED
DEPARTMENT OF PUBLIC WORKS
Kevin R. [Signature] 9-1-87

APPROVED
OFFICE OF PLANNING AND ZONING
John W. [Signature] 8-31-87

CONTRACTOR SHALL CONSTRUCT TEMPORARY TEE TURN AROUND AND DEAD END PARALLEL DRWG R-505 AND R-711

LIMIT OF PAVING @ STA. 5+67.22
LIMIT OF SECT. 1, AREA 2 @ STA. 5+72.22

FUTURE 30' PAV.
FUTURE 50' 2/W



± CURVE DATA
± STA. 3+05.07 TO ± STA. 5+07
R = 200.25'
L = 206.25'
Δ = 30°44'07"
T = 143.40'
CHD = 5 02'47" 23° W, 056.95'

PLAN
SCALE = 1" = 50'

NOTE: Distances shown in [] are encroachments of sidewalks into lots.

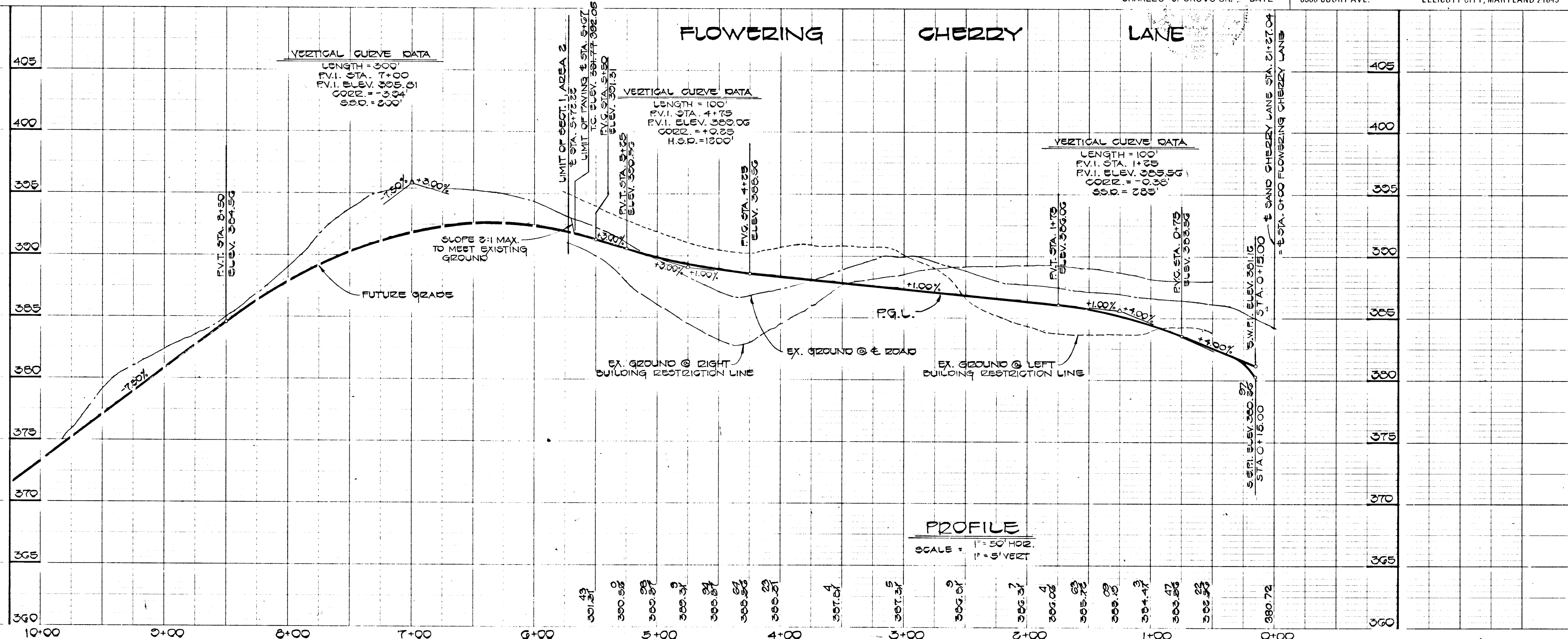
CHERRYTREE FARM
SECTION 1, AREA 2
LOTS 81 TO 203
6TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

FLOWERING CHERRY LANE
PLAN AND PROFILE
ROAD SECTIONS AND DETAILS

OWNER AND DEVELOPER
CHERRYTREE VENTURE
7979 OLD GEORGETOWN ROAD, SUITE 805
BETHESDA, MARYLAND 20814

SCALE AS SHOWN DATE: MARCH 31, 1987 DWG. NO. 8 OF 20
DES. C. CROVO DRN. A. BOGDAN CHK. R. CARTER

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



PROFILE
SCALE = 1" = 50' HORZ.
1" = 5' VERT.

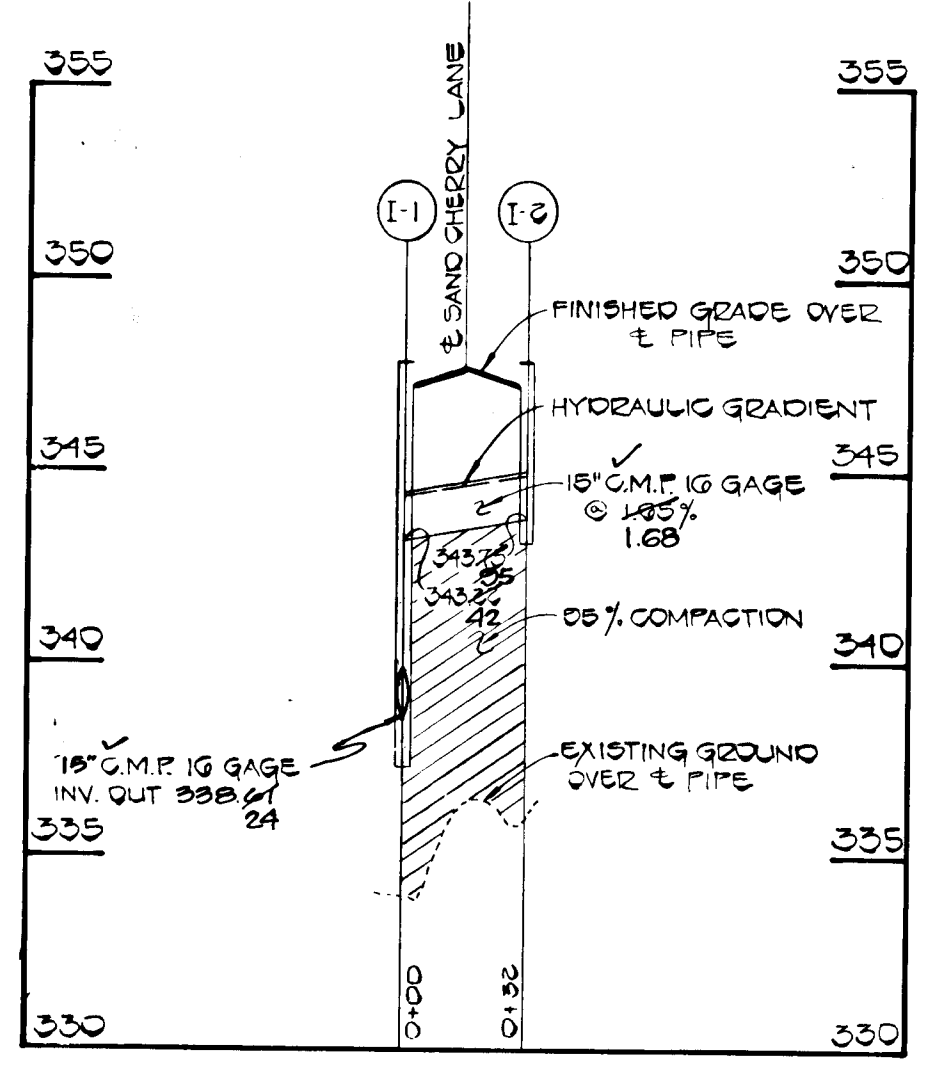
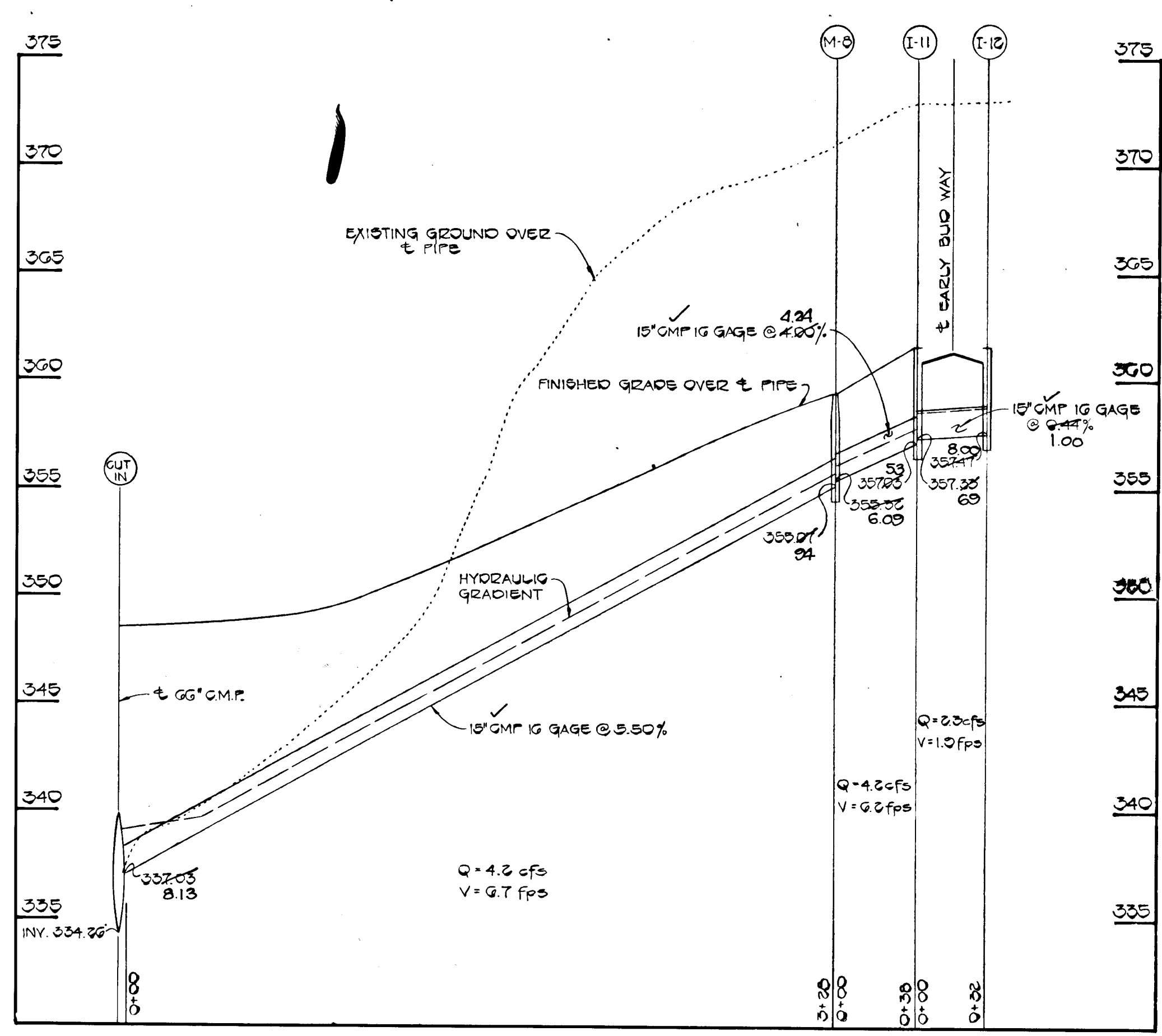
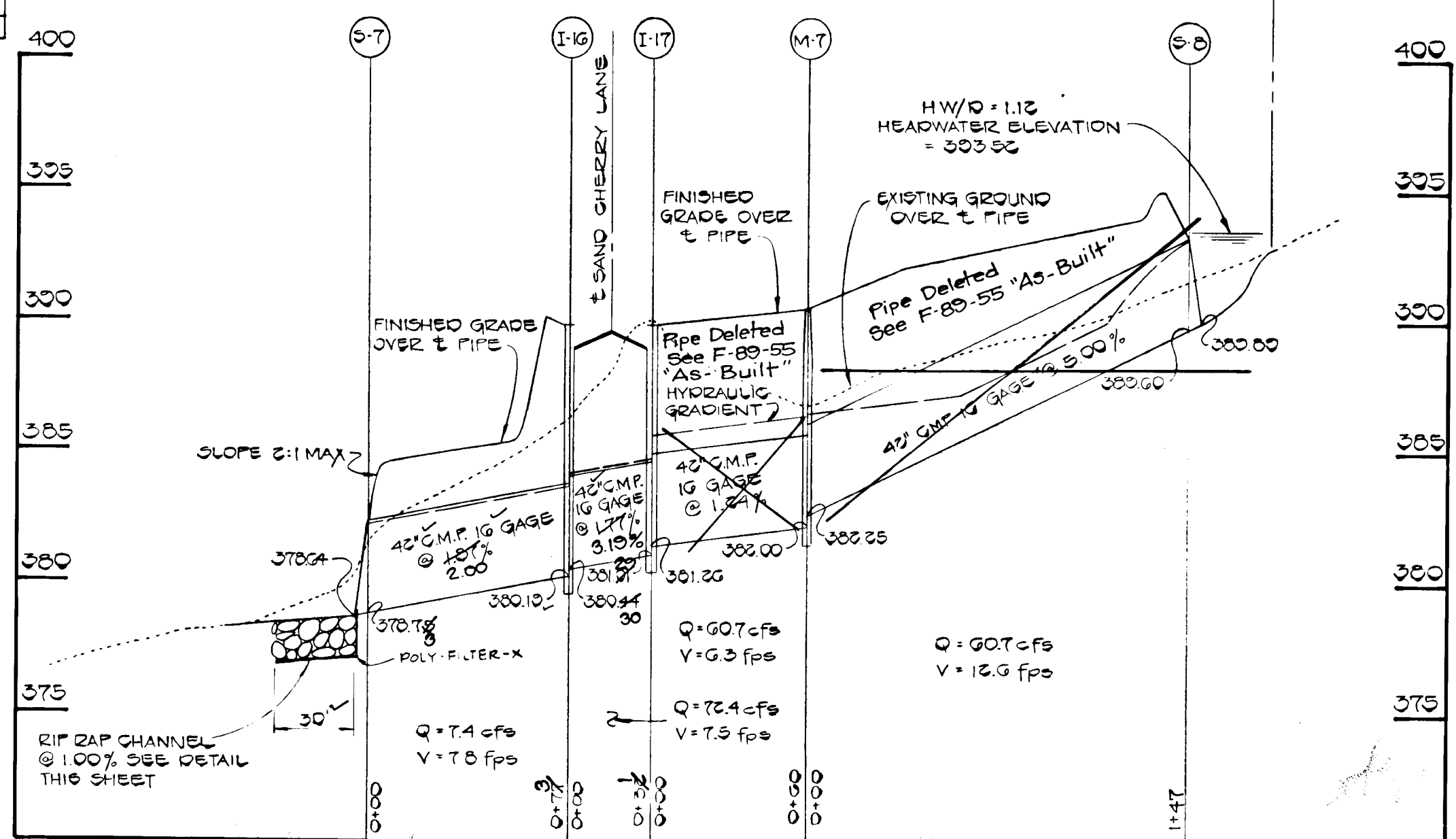
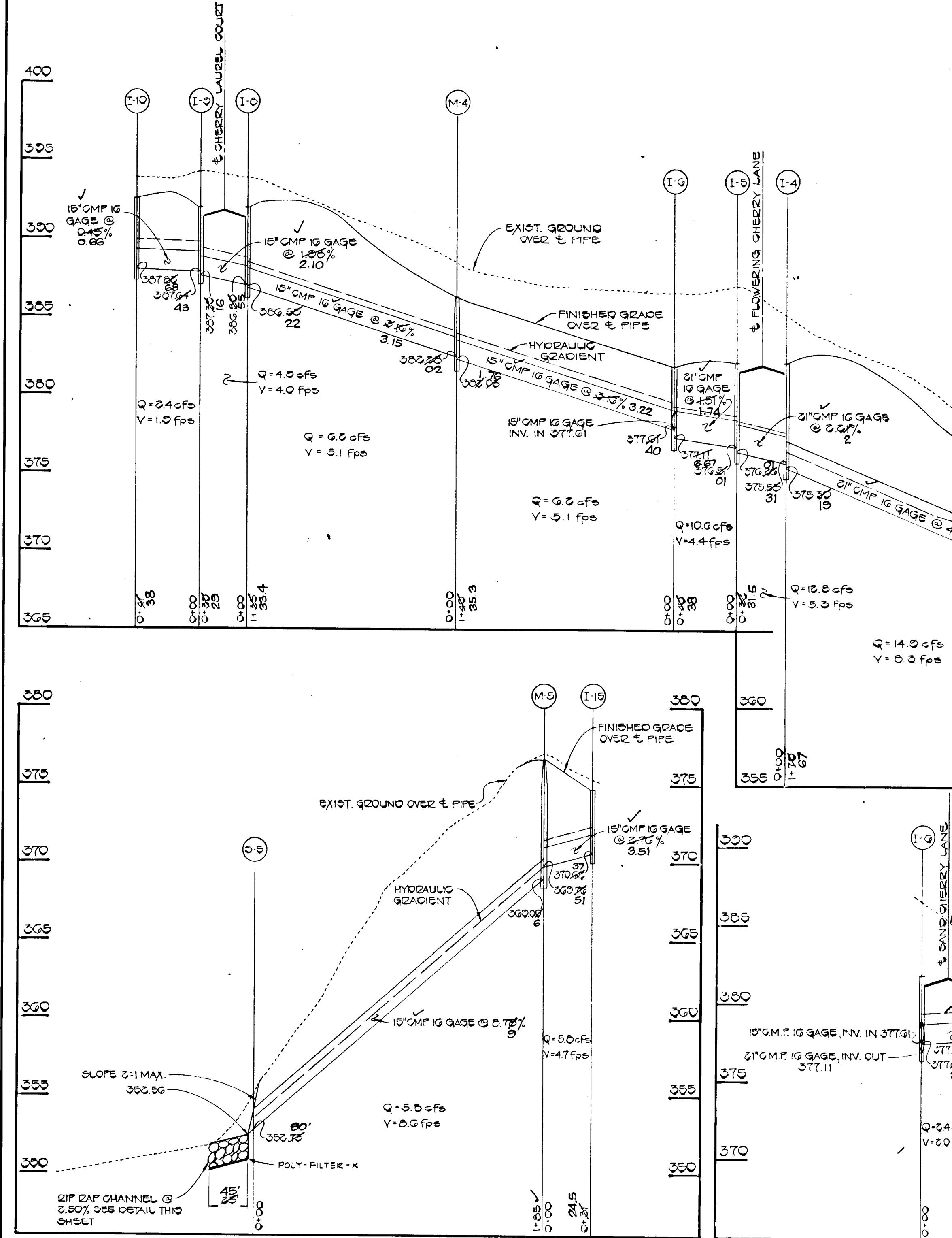
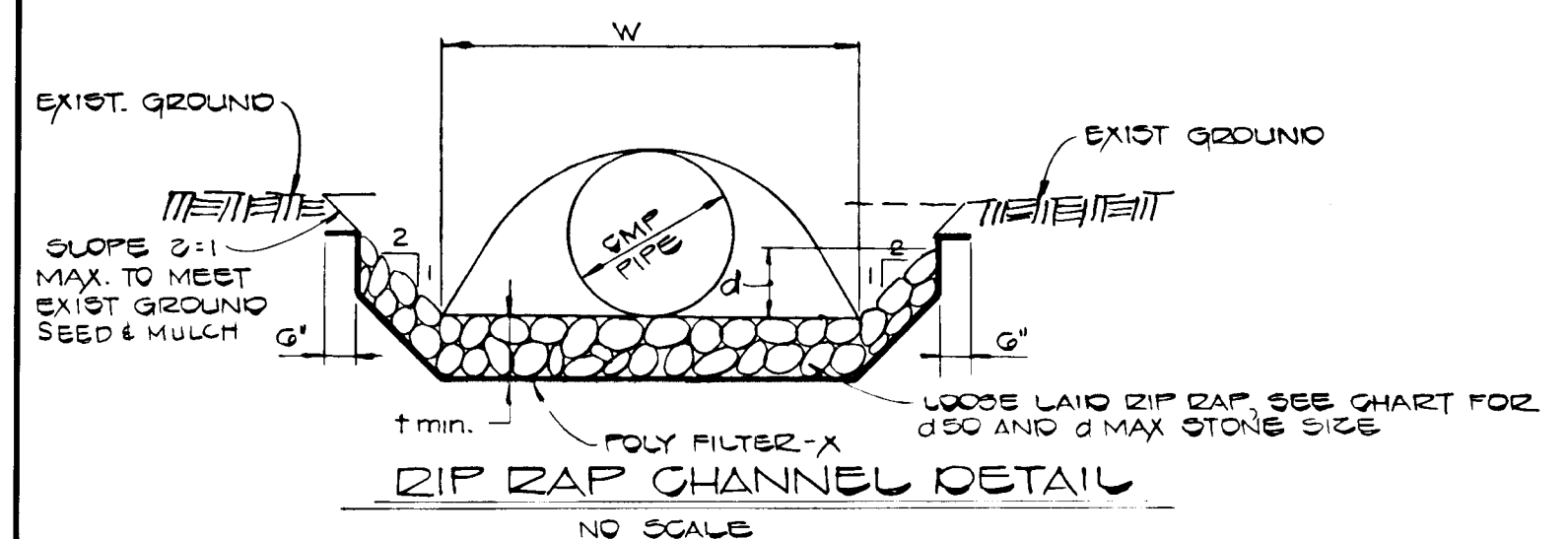
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APPROVED
 DEPARTMENT OF PUBLIC WORKS
 CHIEF, BUREAU OF ENGINEERING
 DATE 3-1-87

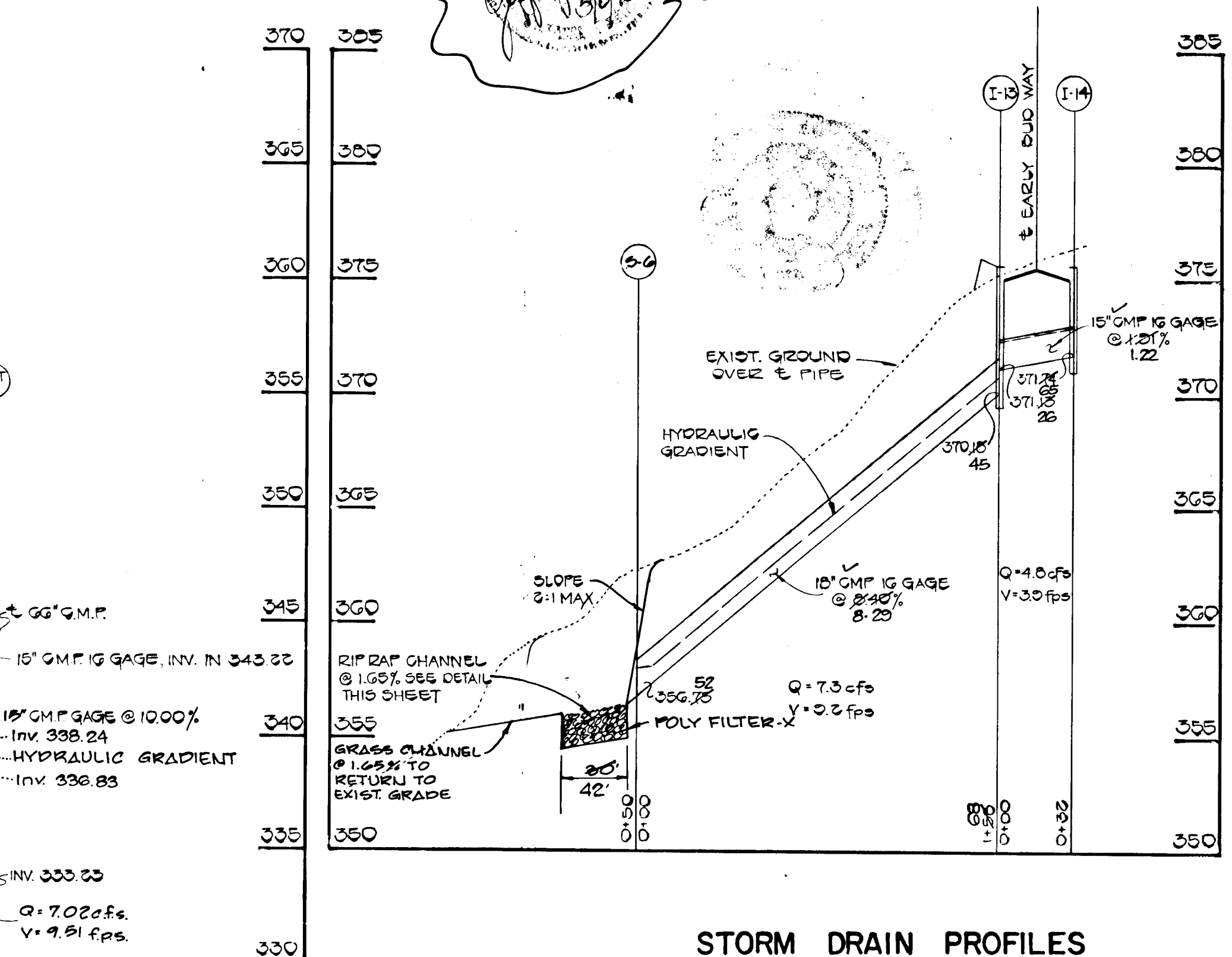
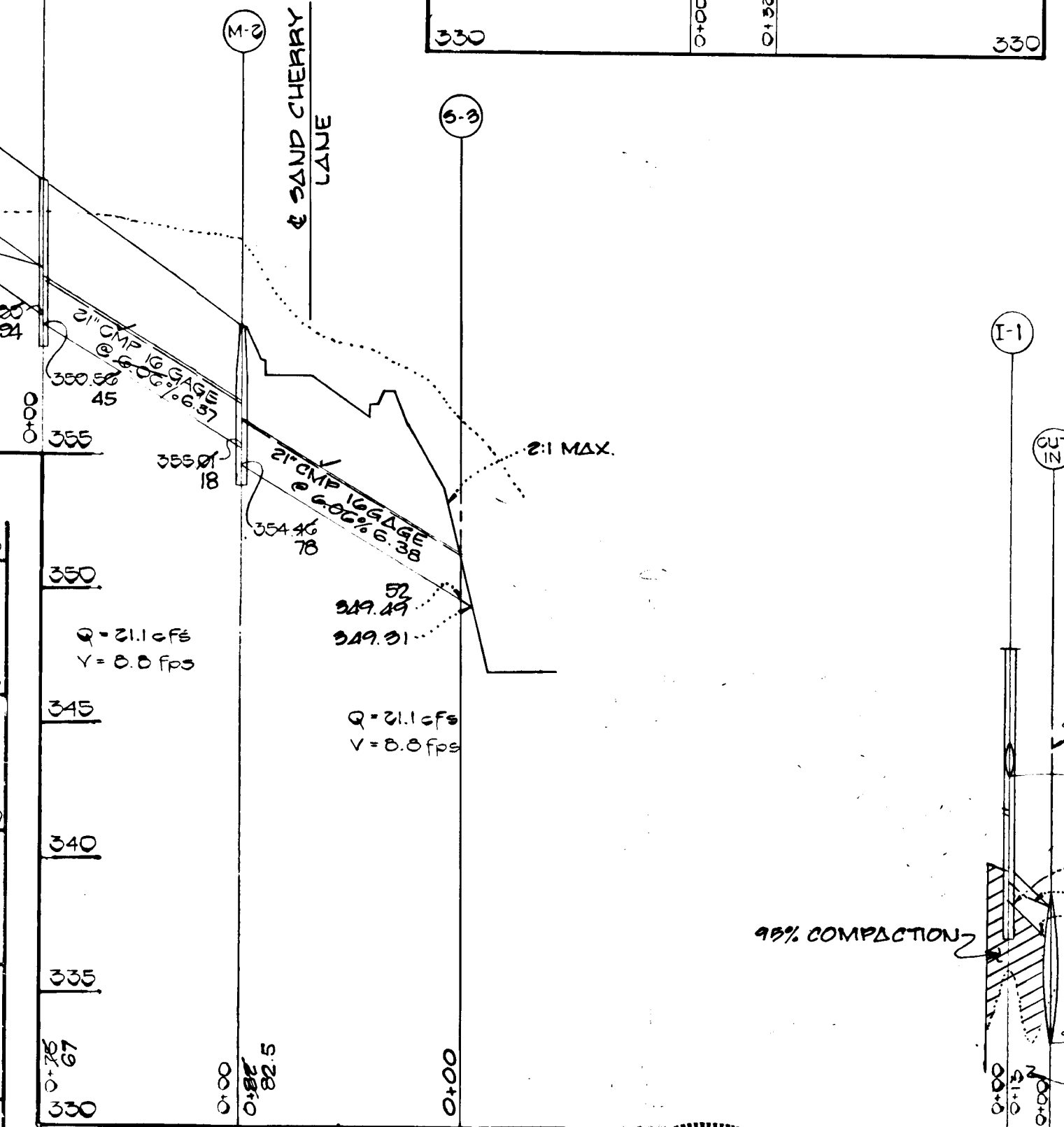
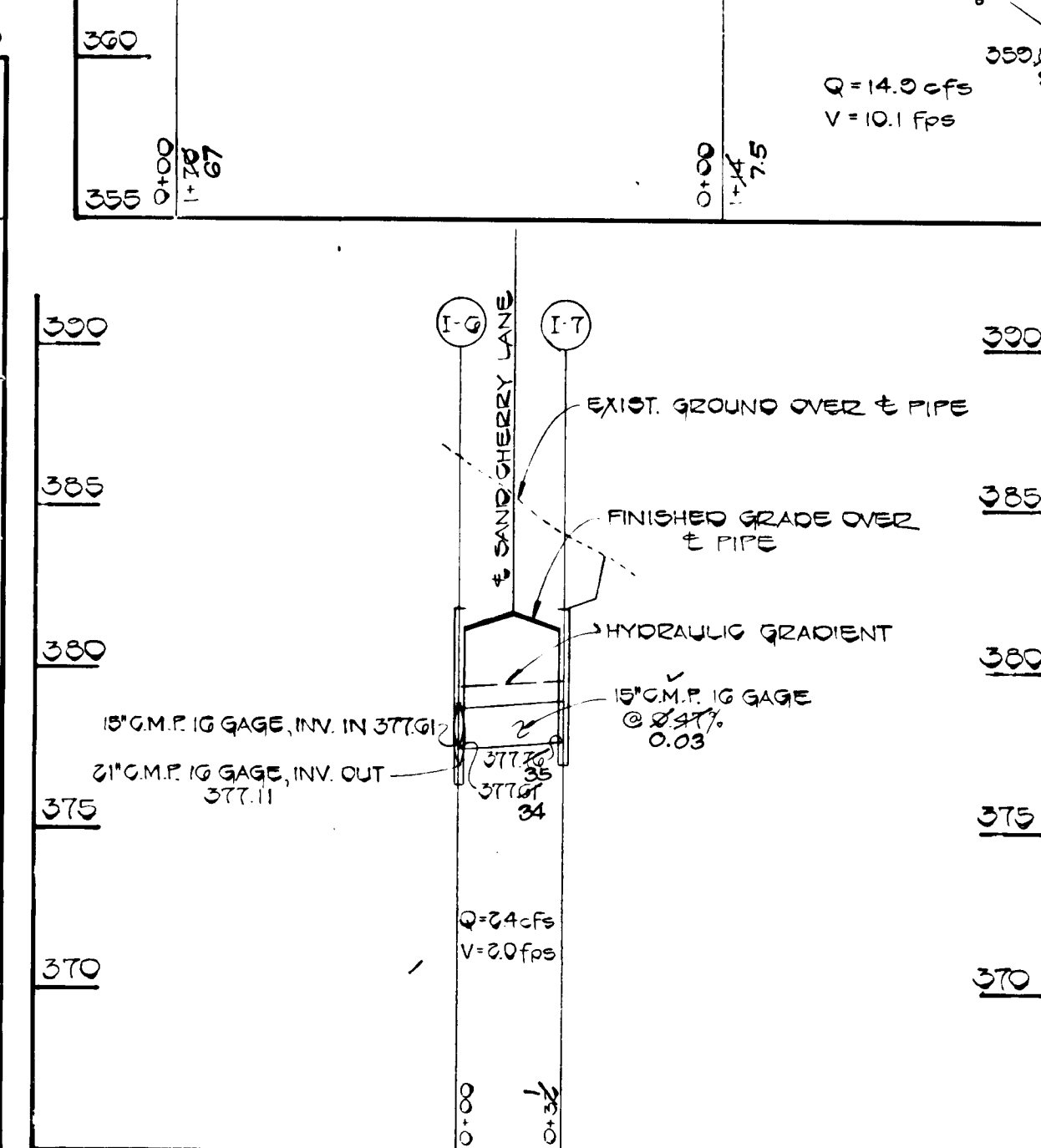
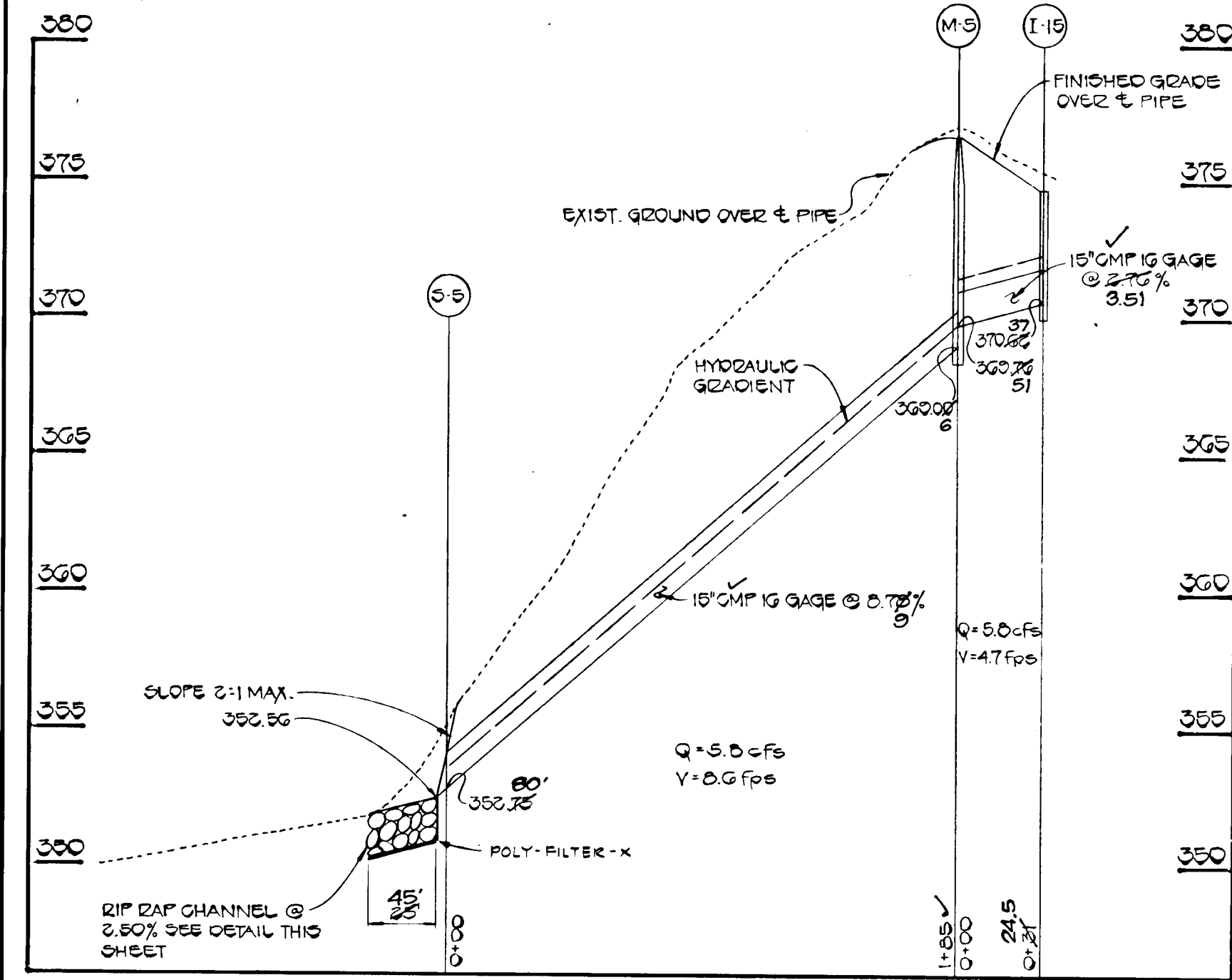
APPROVED
 OFFICE OF PLANNING AND ZONING
 DIVISION OF LAND DEVELOPMENT DATE AND ZONING ADMINISTRATION
 8-3187

CHANNEL DESIGN DATA:

NO.	A SQ. FT.	P'	R	R-2/3	S	S-1/2	d	t min.	Q	V	d50"	dmax."	W
S-1	25.92	20.16	1.2957	1.1824	1.50%	0.1225	1.60'	20"	139.4	5.32	9"	14"	13'
S-3	4.91	8.68	0.5657	0.6840	1.55%	0.1285	0.71'	14"	16.1	3.27	6"	6"	5.5'
S-5	1.98	5.52	0.3587	0.5048	2.50%	0.1581	0.45'	9"	5.9	2.96	4"	6"	3.5'
S-6	2.78	6.62	0.4199	0.5607	1.65%	0.1285	0.52'	9"	7.5	2.68	4"	6"	4.3'
S-7	18.44	16.12	1.1439	1.0938	1.00%	0.1000	1.48'	20"	74.9	4.06	9"	14"	9.5'



For AS-BUILT by
 Clary, Fine, Frock & Sackoff, Inc.

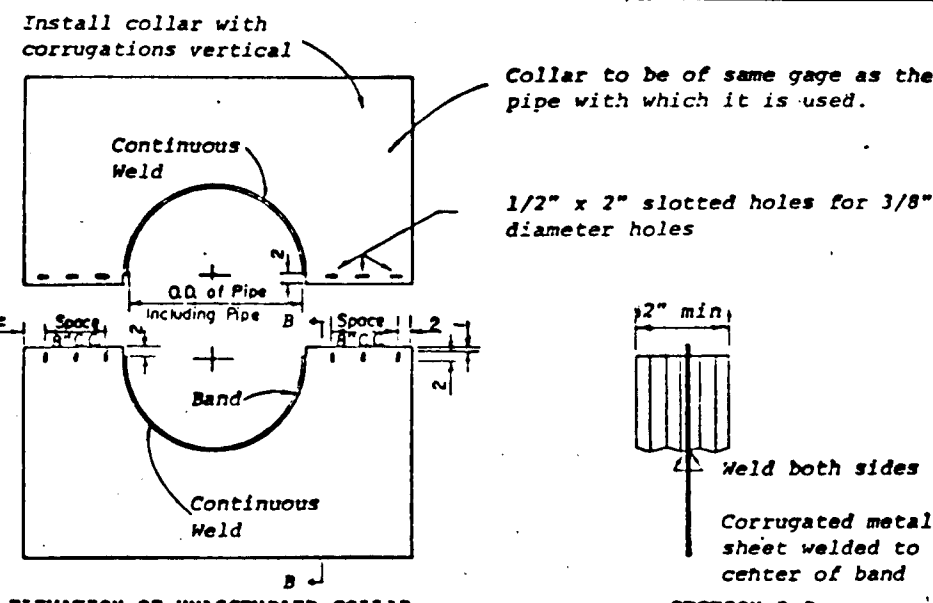


FISHER, COLLINS AND CARTER, INC.
 CONSULTING ENGINEERS AND LAND SURVEYORS
 8388 COURT AVE.
 ELLICOTT CITY, MARYLAND 21043

CHARLES J. CRUVO, SR.
 DATE 3/31/87

OWNER AND DEVELOPER
 CHERRYTREE VENTURE
 SUITE 805
 7979 OLD GEORGETOWN ROAD
 BETHESDA, MARYLAND 20814

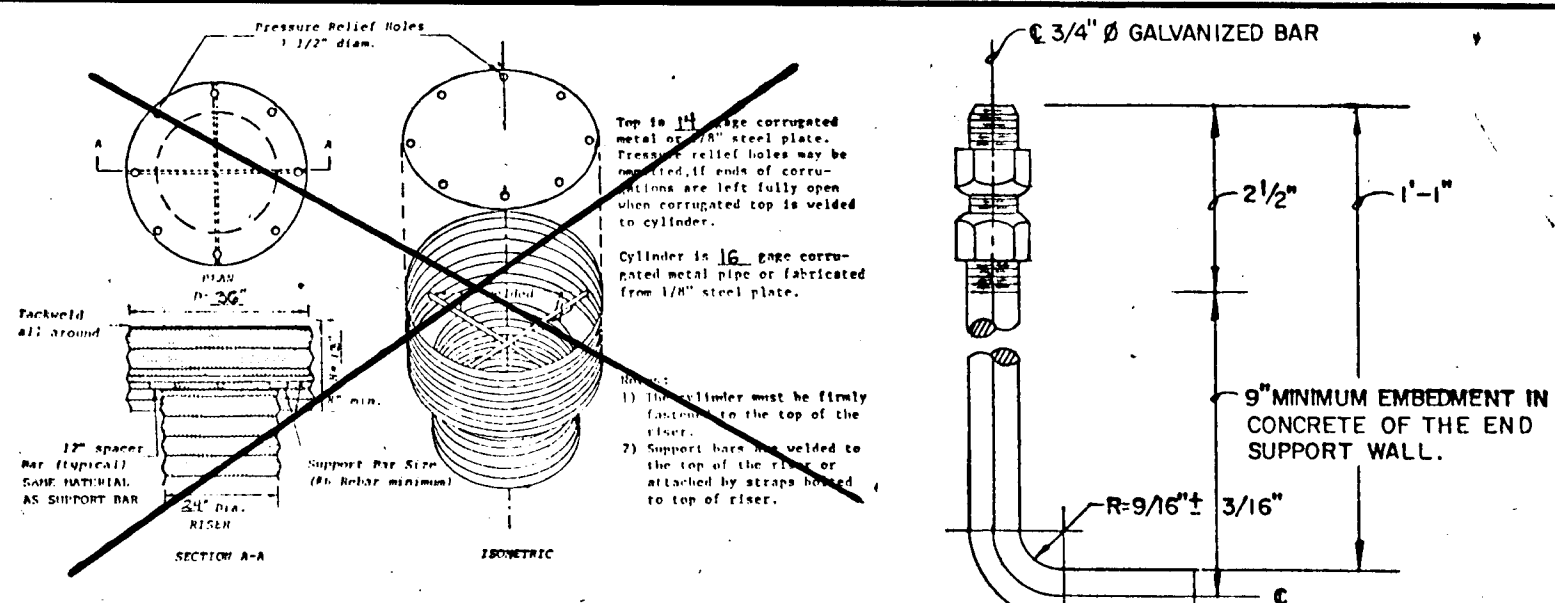
STORM DRAIN PROFILES
 AND DETAILS
 CHERRYTREE FARM
 SECTION 1 AREA 2
 6TH ELECTION DISTRICT HOWARD COUNTY, MD.
 SCALE: 1" = 50' HOR.
 1" = 5' VERT.
 MARCH 31, 1987
 SHEET 9 OF 20



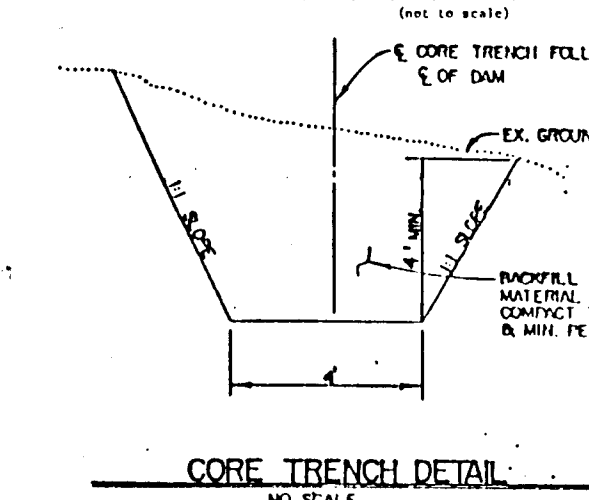
NOTES FOR COLLARS:

- 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 gap 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.

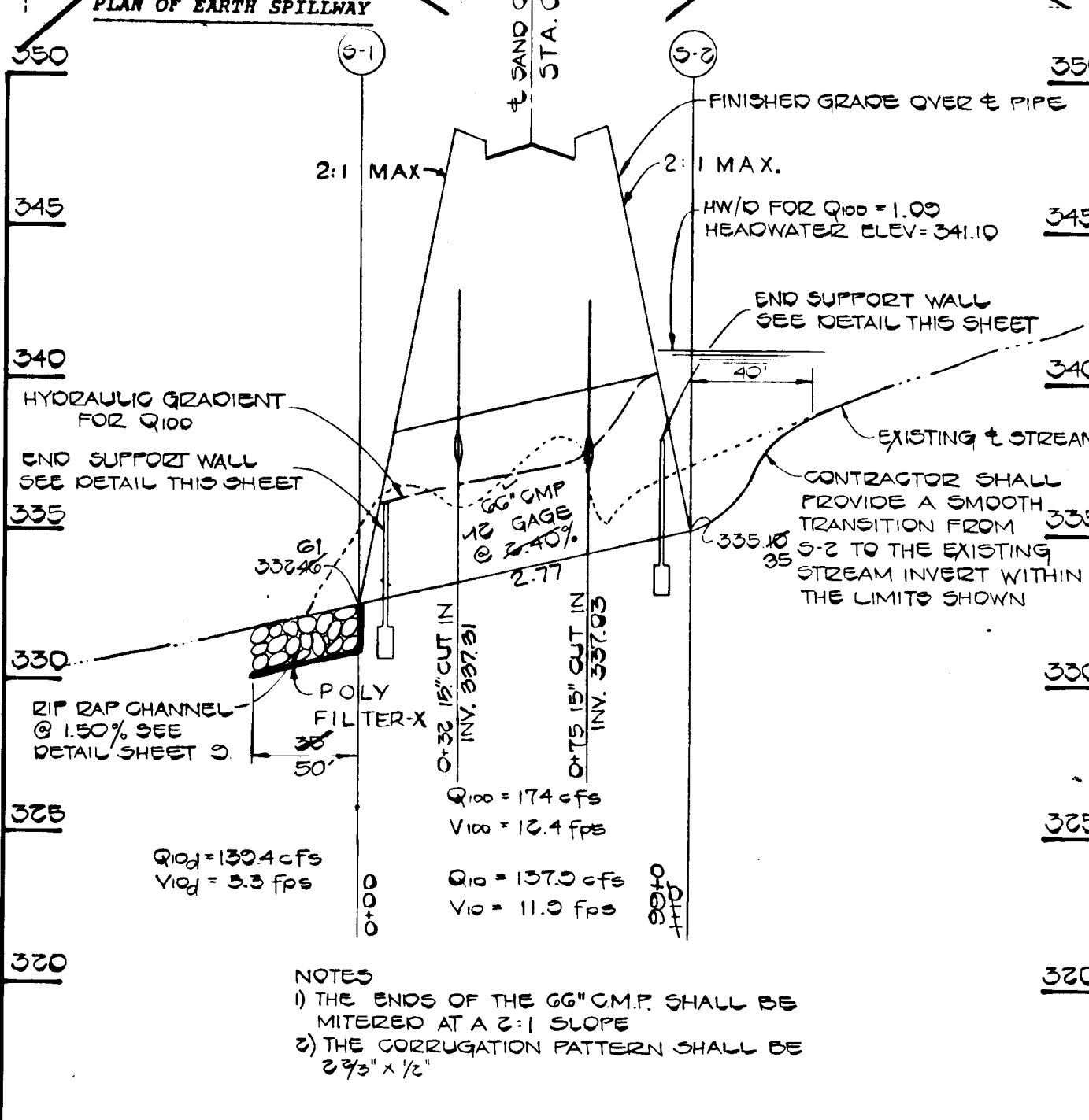
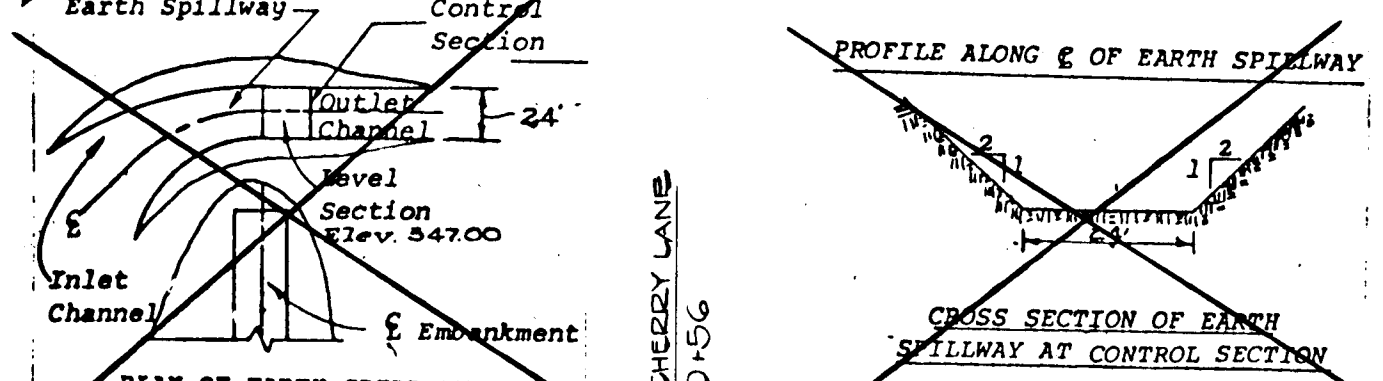
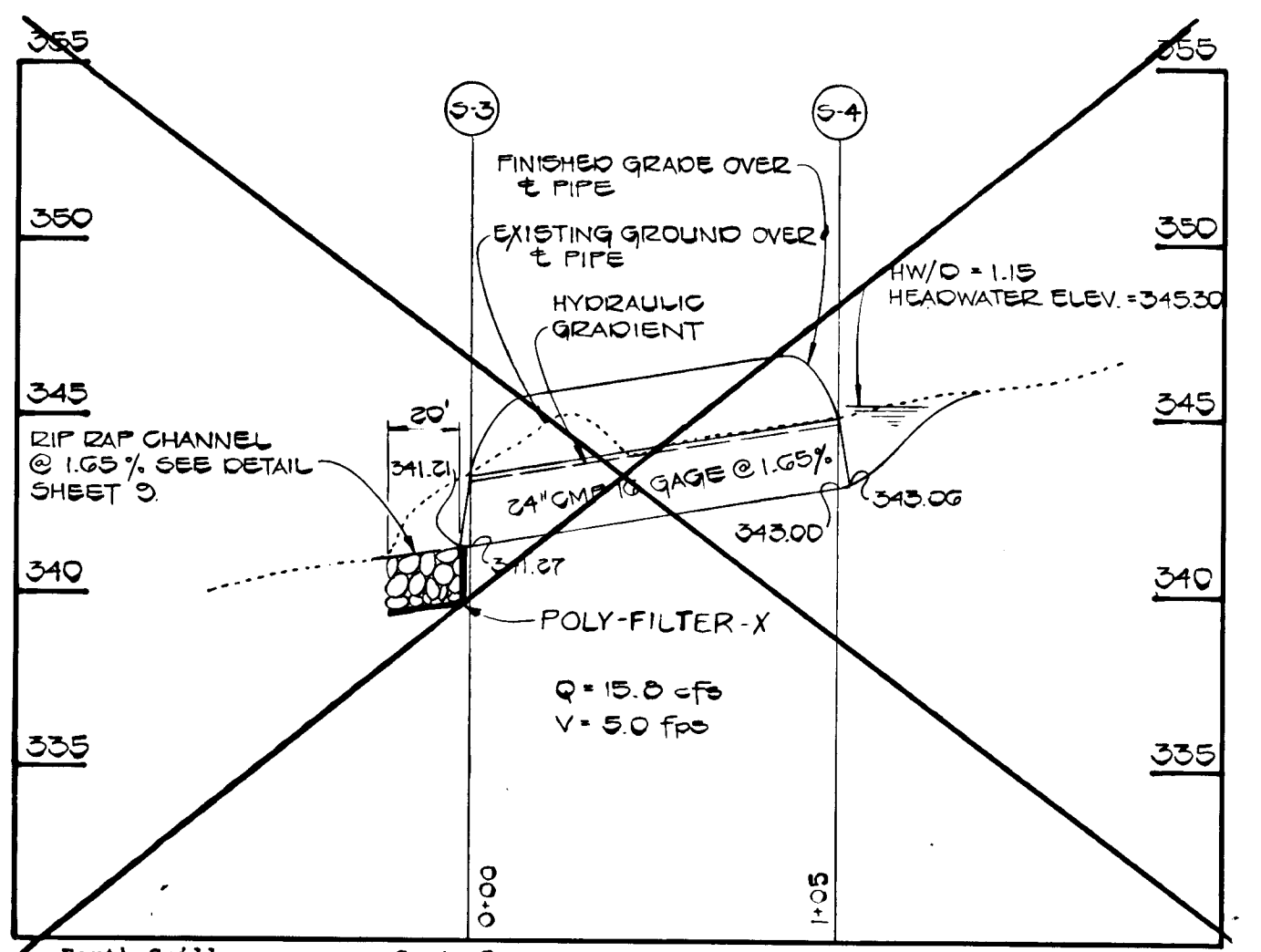
DETAILS OF CORRUGATED METAL ANTI-SEEP COLLAR



ANCHOR BOLT DETAIL
NO SCALE

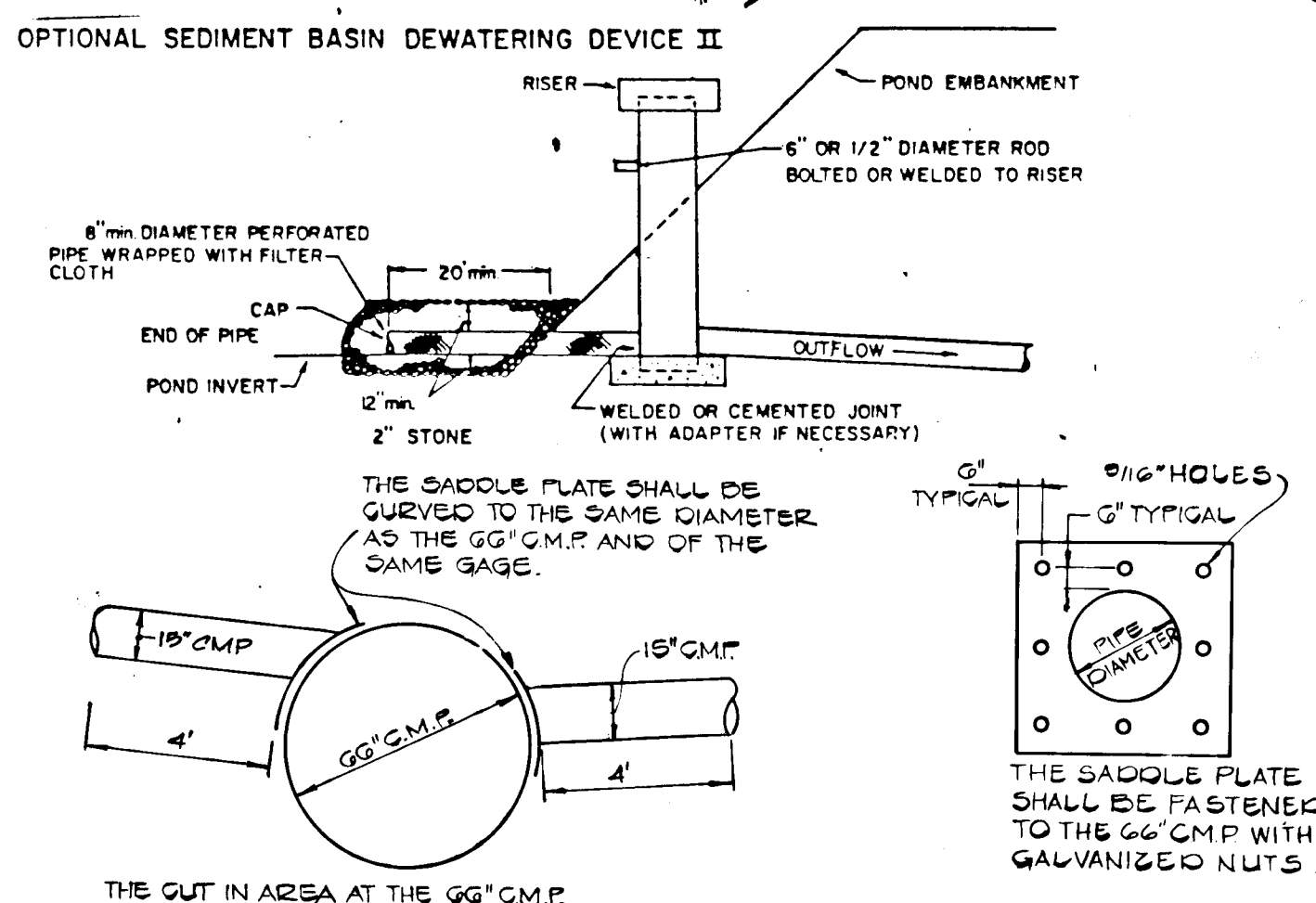


CORE TRENCH DETAIL
NO SCALE



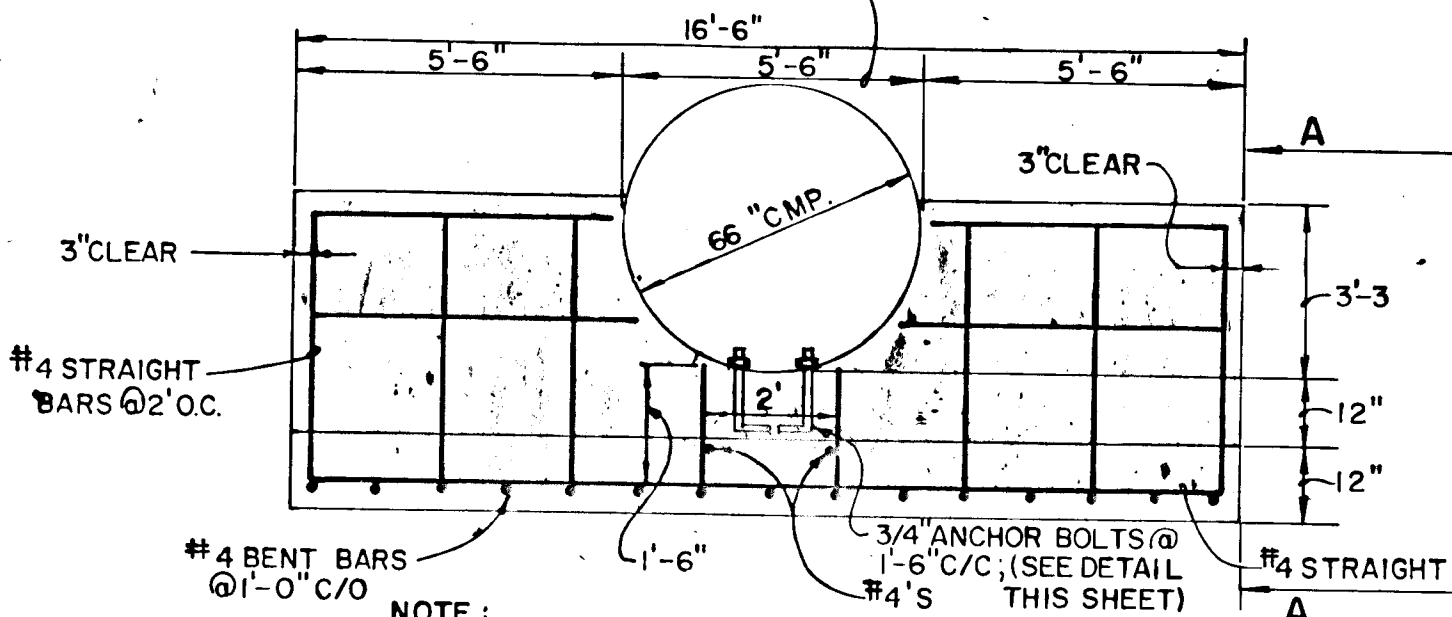
NOTES:

- THE ENDS OF THE 66" C.M.P. SHALL BE MITERED AT A 2:1 SLOPE
- THE CORRUGATION PATTERN SHALL BE 2 3/8" x 1/2"



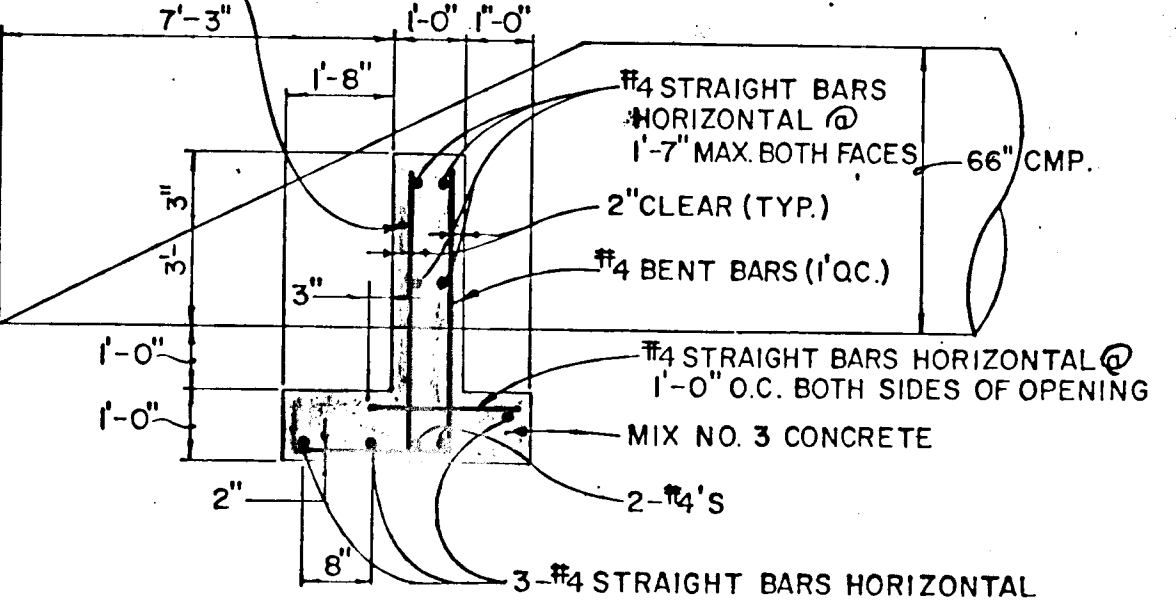
CUT-IN DETAIL
NO SCALE

WITHIN THESE LIMITS ANCHOR BOLTS SHALL BE PLACED IN CENTER OF THE END SECTION WALL.



NOTE:

- REINFORCING STEEL SHALL BE FREE FROM MUD, OIL, OR OTHER NON-METALLIC COATINGS THAT ADVERSELY AFFECT BONDING CAPACITY. BARS SHALL BE SECURELY TIED TO PREVENT DISPLACEMENT DURING THE PLACEMENT OF CONCRETE.
- EXCAVATION, BEDDING, FOUNDATION PREPARATION & BACKFILL FOR THE C.M.P. SHALL BE IN ACCORDANCE WITH SECT. 602 OF THE STATE HIGHWAY ADMINISTRATION SPECIFICATIONS. IF ROCK IS ENCOUNTERED, IT SHALL BE REMOVED & REPLACED WITH SAND TO PROVIDE A MINIMUM CUSHION OF 8 INCHES BELOW THE BOTTOM OF THE PIPE ARCH. SELECTED BACKFILL, IF REQUIRED, SHALL MEET THE REQUIREMENTS OF SECT. 601 OF THE S.H.A. SPECIFICATIONS.



SECTION A-A
NO SCALE
END SUPPORT WALL DETAIL
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 SOIL CONSERVATION DISTRICT.

Charles J. Crovo, Sr.
SIGNATURE OF ENGINEER
DATE 3/1/87

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."

Stephen L. Shahr
SIGNATURE OF DEVELOPER
DATE 3/20/87

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

John W. Murchman
SIGNATURE OF DISTRICT
DATE 3/20/87

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

Stephen L. Shahr
DISTRICT
HOWARD SOIL CONSERVATION DISTRICT
DATE 3/20/87

APPROVED: DEPARTMENT OF PUBLIC WORKS

James E. Riley
CHIEF, BUREAU OF ENGINEERING
DATE 3-1-87

APPROVED: OFFICE OF PLANNING AND ZONING

John W. Murchman
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION
DATE 3-31-87

CONSTRUCTION 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 clear-out and restoration, the pool area (measured 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 riser crest elevation. The minimum bottom width shall be four feet, but wide enough to permit operation of excavation and compaction equipment. The side slopes shall be no steeper than 1:1. Connection requirements shall be the same as those for embankment. The trench shall be dewatered during the backfilling-connection operations.

Embankment
The fill material shall be taken from approved areas shown on the plans. It shall be clean mineral soil free of roots, woody vegetation, over-sized stones, rocks, or other objectionable material. Relatively pervious materials such as sand or gravel (Unified Soil Classes SM, GP, SW & SP) shall not be placed in the embankment. Areas on which fill is to be placed shall be scarified prior to placement of fill. The fill material shall contain sufficient moisture so that it can be formed by hand into a ball without crumbling. If water can be squeezed out of the ball, it is too wet for proper compaction. Fill material shall be placed in layers to eight-inch thick continuous layers over the entire length of the fill. Compaction shall be obtained by routing and hauling the construction equipment over the fill so that the entire surface of each layer of the fill is traversed by at least one wheel or tread track of the equipment or by the use of a compactor. The embankment shall be constructed to an elevation 10 percent higher than the design height to allow for settlement.

Pipe Spillways
The riser shall be securely attached to the barrel or barrel stub by welding the full circumference making a watertight structural connection. The barrel stub must be attached to the riser at the same percent (same % 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 band assemblies. (See page 18.22 for details.) The barrel and riser shall be placed on a firm, smooth foundation of impervious soil. Pervious materials such as sand, gravel, or crushed stone shall not be used as backfill around the pipe or anti-seep collars. 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.

A minimum depth of two feet of hand compacted backfill shall be placed over the pipe spillway before crossing it with construction equipment. Steel base plates on risers shall have at least 2-1/2 feet of compacted earth, 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 unstabilized for more than seven(7) days.

Erosion and Pollution Control
Construction operations shall be carried out in such a manner that erosion and water pollution will be minimized. State and local laws shall be complied with concerning pollution abatement.

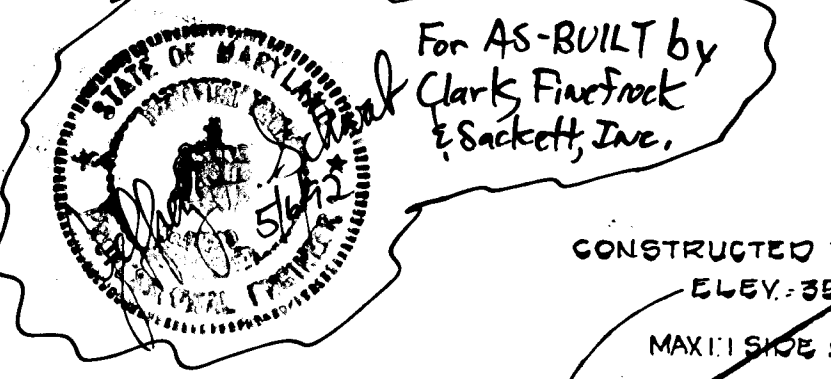
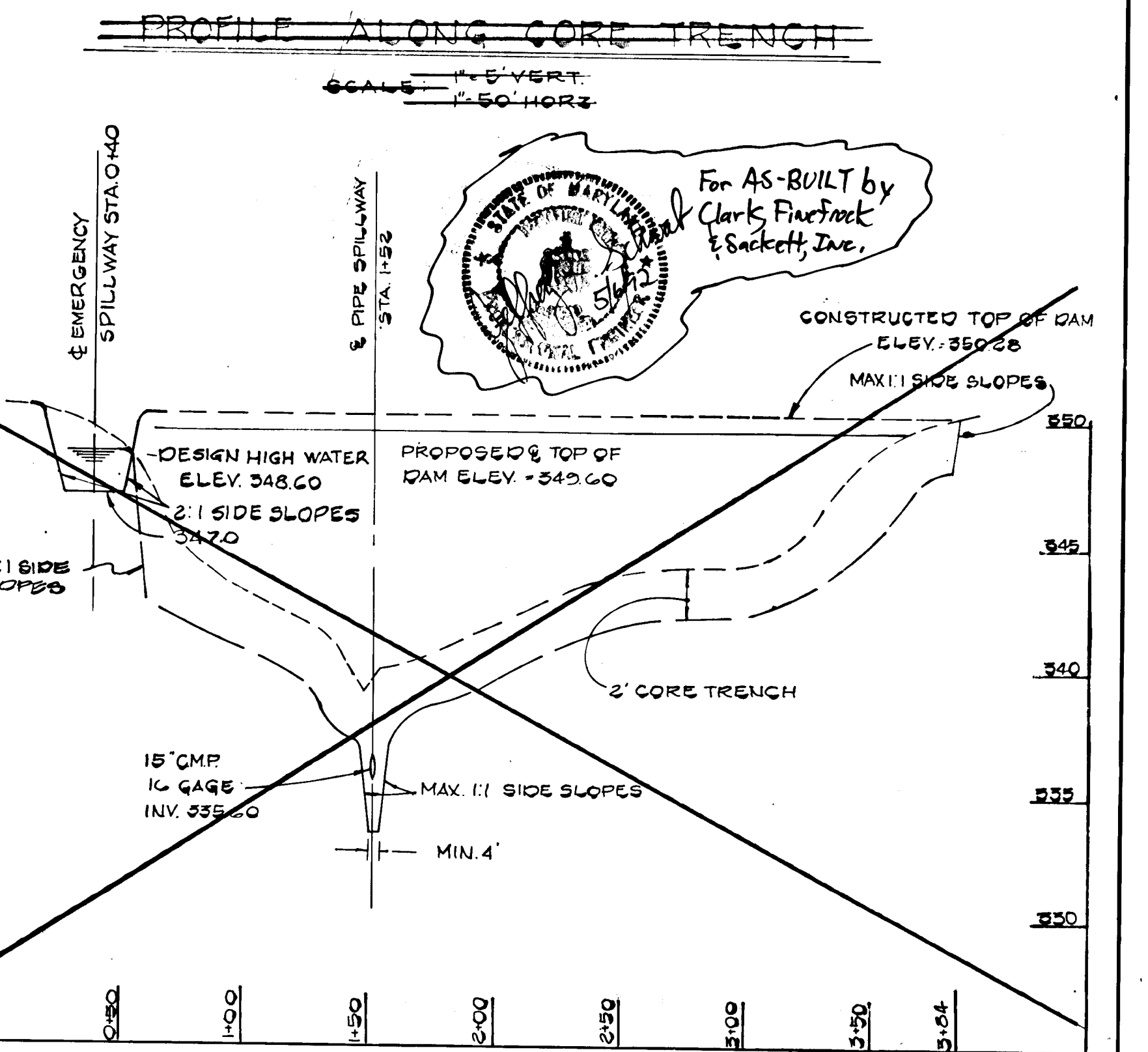
Safety
State and local requirements shall be met concerning fencing and signs, warning the public of hazards of soft sediment and floodwater.

Maintenance

- Repair all damages caused by soil erosion and construction equipment at or before the end of each working day.
- Sediment shall be removed from the basin when it reaches the specified distance below the top of the riser. This sediment shall be placed in such a manner that it will not erode from the site. The sediment shall not be deposited downstream from the embankment, adjacent to a stream or flood plain.

Final Disposal
When temporary structures have served their intended purpose and the contributing drainage area has been properly stabilized, the embankment and resulting sediment deposits are to be leveled or otherwise disposed of in accordance with the approved sediment control plan. The proposed use of a sediment basin site will often dictate final disposal of the basin and any sediment contained therein. If the site is scheduled for future construction, then the basin material and trapped sediments must be removed, safely disposed of, and backfilled with a structural fill. When the basin area is to remain open space the pond may be pumped dry, graded and back filled.

		STRUCTURE SCHEDULE:					
NO.	TYPE	INVERT IN	INVERT OUT	± TOP ELEV.	± STATION	REMARKS	
I-1	A-5	343.22	332.86	347.86	27+62	Sand Cherry Lane	DRWG. SD 4.01
I-2	A-5	--	343.75	347.86	27+62	Sand Cherry Lane	DRWG. SD 4.01
I-3	A-10 with Deflectors	359.89	359.58	364.85	24+12.36	Sand Cherry Lane	DRWG. SD 4.02&SD 4.83
I-4	A-5 with Deflectors	375.53	375.38	382.28	0 +43	Flowering Cherry Lane	DRWG. SD 4.01&SD 4.83
I-5	A-5 with Deflectors	376.37	376.28	382.28	0 +43	Flowering Cherry Lane	DRWG. SD 4.01&SD 4.83
I-6	A-5 with Deflectors	377.67	377.51	382.00	20+84.04	Sand Cherry Lane	DRWG. SD 4.01&SD 4.83
I-7	A-5 with Deflectors	--	377.78	382.00	20+84.04	Sand Cherry Lane	DRWG. SD 4.01&SD 4.83
I-8	A-5 with Deflectors	386.80	386.58	392.14	0 +43	Cherry Laurel Court	DRWG. SD 4.01&SD 4.83
I-9	A-5 with Deflectors	387.64	387.38	392.14	0 +43	Cherry Laurel Court	DRWG. SD 4.01&SD 4.83
I-10	A-5 with Deflectors	--	387.82	392.87	17+68.04	Sand Cherry Lane	DRWG. SD 4.01&SD 4.83
I-11	A-5 with Deflectors	357.33	357.83	361.55	13+93.44	Early Bud Way	DRWG. SD 4.01&SD 4.83
I-12	A-5 with Deflectors	--	357.47	361.55	13+93.44	Early Bud Way	DRWG. SD 4.01&SD 4.83
I-13	A-5 with Deflectors	371.13	370.18	375.87	8+09.66	Early Bud Way	DRWG. SD 4.01&SD 4.83
I-14	A-10 with Deflectors	--	371.27	375.87	8+09.66	Early Bud Way	DRWG. SD 4.02&SD 4.83
I-15	A-5	--	370.82	374.54	1 +01	Sweet Cherry Court	DRWG. SD 4.01
I-16	A-5	380.44	380.19	389.84	6 +40	Sand Cherry Lane	DRWG. SD 4.01
I-17	A-10	381.26	381.01	389.84	6 +40	Sand Cherry Lane	DRWG. SD 4.02
M-2	Shallow Manhole	355.01	354.44	359.67	26+84.10	Sand Cherry Lane	DRWG. SD G5.05
M-3	Shallow Manhole	368.07	367.87	373.28	23+02.35	Sand Cherry Lane	DRWG. SD G5.05
M-4	Shallow Manhole	382.28	382.03	386.22	19+50	Sand Cherry Lane	DRWG. SD G5.05
M-5	Standard Manhole	369.28	369.08	376.62	07+4.15	Sweet Cherry Court	DRWG. SD G5.01
M-6	Standard Manhole	356.75	356.50	362.30	--	--	DRWG. SD G5.01
M-7	Standard Manhole	382.25	382.00	386.22	5+79.43	Sand Cherry Lane	DRWG. SD G5.03
M-8	Shallow Manhole	356.37	355.04	359.34	31+25	Sand Cherry Lane	DRWG. SD G5.05
S-1	66" Mitered End Section	335.40	--	--	--	--	--
S-2	66" Mitered End Section	--	332.46	--	--	--	--
S-3	Standard Metal End Section	--	349.49	351.24	--	--	DRWG. SD 5.61
S-5	Standard Metal End Section	--	352.75	354.00	--	--	DRWG. SD 5.61
S-6	Standard Metal End Section	--	352.06	362.30	--	--	DRWG. SD 5.61
S-7	Standard Metal End Section	--	378.75	382.25	--	--	DRWG. SD 5.61
S-8	Standard Metal End Section	VOID SEE F-88-55	--	393.10	--	--	DRWG. SD 5.61



For AS-BUILT by
Clark Finck & Sackett, Inc.

STORM DRAIN PROFILES, SEDIMENT BASIN NOTES AND DETAILS

OWNER AND DEVELOPER
CHERRYTREE VENTURE
SUITE 805
7979 OLD GEORGETOWN ROAD
BETHESDA, MARYLAND 20814

SECTION 1 AREA 2
6TH ELECTION DISTRICT HOWARD COUNTY, MD
SCALE: 1" = 5' HOR. 1" = 5' VERT.
MARCH 31, 1987
SHEET 10 OF 20

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

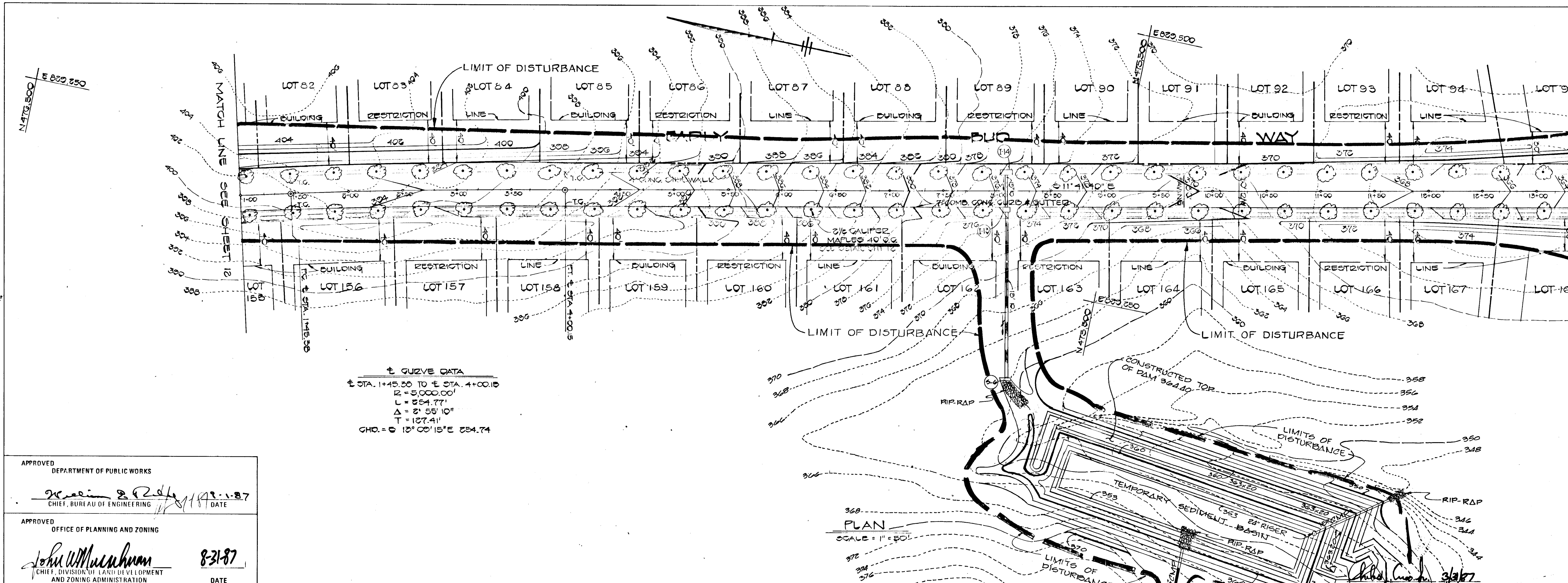
STATE OF MARYLAND
REGISTERED PROFESSIONAL ENGINEER
Charles J. Crovo, Sr.
CHARLES J. CROVO, SR.
DATE 3/31/87

1109

AS BUILT F-85-92 AS BUILT

PLAN
 SURVEYED
 PLOTTED
 ALIGNED
 GRADINGS CHECKED
 STRUCTURE NOTATIONS CHKO
 DATE

PROFILE
 SURVEYED
 PLOTTED
 GRADINGS CHECKED
 STRUCTURE NOTATIONS CHKO
 DATE

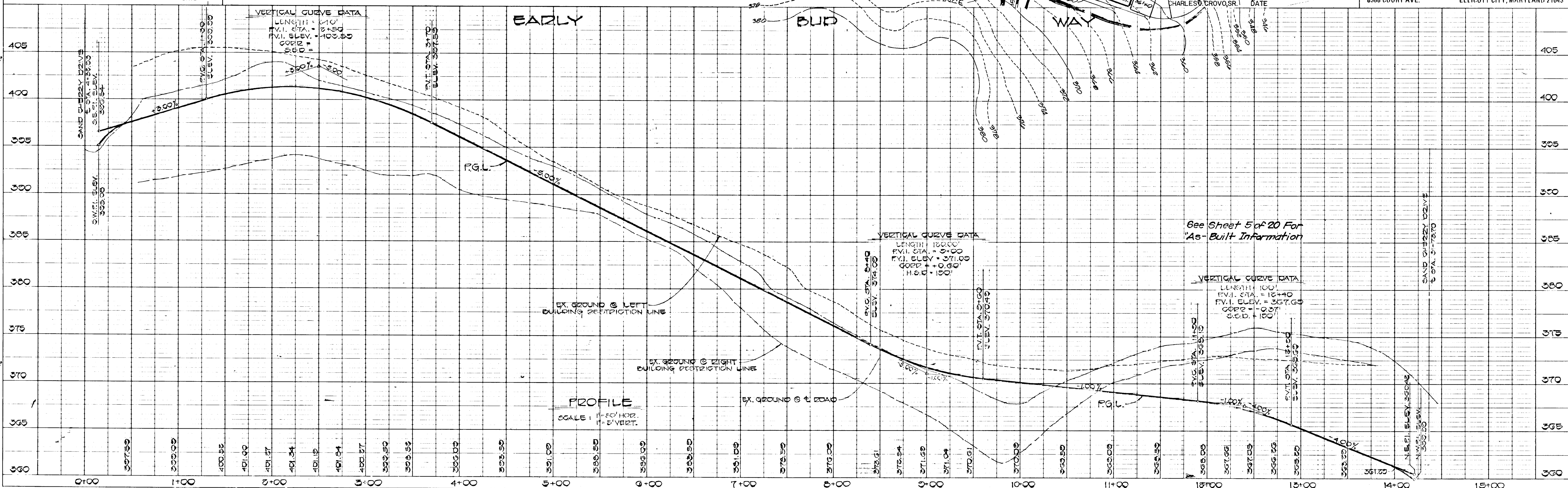


↑ CURVE DATA
 ± STA. 1+45.00 TO ± STA. 4+00.00
 R = 5,000.00'
 L = 554.77'
 Δ = 2° 55' 10"
 T = 127.41'
 G.H.D. = 0° 13' 00" 15" E 254.74'

VERTICAL CURVE DATA
 LENGTH = 110'
 P.V.I. STA. = 2+150
 P.V.I. ELEV. = 103.50
 G.O.D. = -0.37
 S.C.D. = +1.00'

VERTICAL CURVE DATA
 LENGTH = 100'
 P.V.I. STA. = 9+00
 P.V.I. ELEV. = 371.00
 G.O.D. = +0.60
 H.S.D. = 100'

VERTICAL CURVE DATA
 LENGTH = 100'
 P.V.I. STA. = 12+40
 P.V.I. ELEV. = 367.60
 G.O.D. = -0.37
 S.C.D. = +1.00'



CHERRY TREE FARMS
 SECTION 1, AREA 2
 LOTS 81 TO 205
 6TH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

EARLY BUD WAY
 STREET TREE PLAN & GRADING PLAN

OWNER AND DEVELOPER
 CHERRY TREE VENTURE
 7979 OLD GEORGETOWN ROAD, SUITE 805
 BETHESDA, MARYLAND 20814

SCALE AS SHOWN	DATE MARCH 31, 1987	DWG. NO. 15, OF 20
DES. C. CROVO	DRN. A. BOGDAN	CHK. R. CARTER

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

APPROVED
 DEPARTMENT OF PUBLIC WORKS
 [Signature] 8-31-87
 CHIEF, BUREAU OF ENGINEERING

APPROVED
 OFFICE OF PLANNING AND ZONING
 [Signature] 8-31-87
 CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION

DATE: 9-1-87
 DRAWN BY: J. M. MURKIN
 CHECKED BY: R. C. CARTER

APPROVED
 DEPARTMENT OF PUBLIC WORKS
John W. Murkin 9-1-87
 CHIEF, BUREAU OF ENGINEERING
 DATE

APPROVED
 OFFICE OF PLANNING AND ZONING
John W. Murkin 8-31-87
 CHIEF, BUREAU OF PLANNING AND ZONING ADMINISTRATION
 DATE

CHERRYTREE FARM
 SECTION 1, AREA 2
 LOTS 81 TO 203
 6TH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

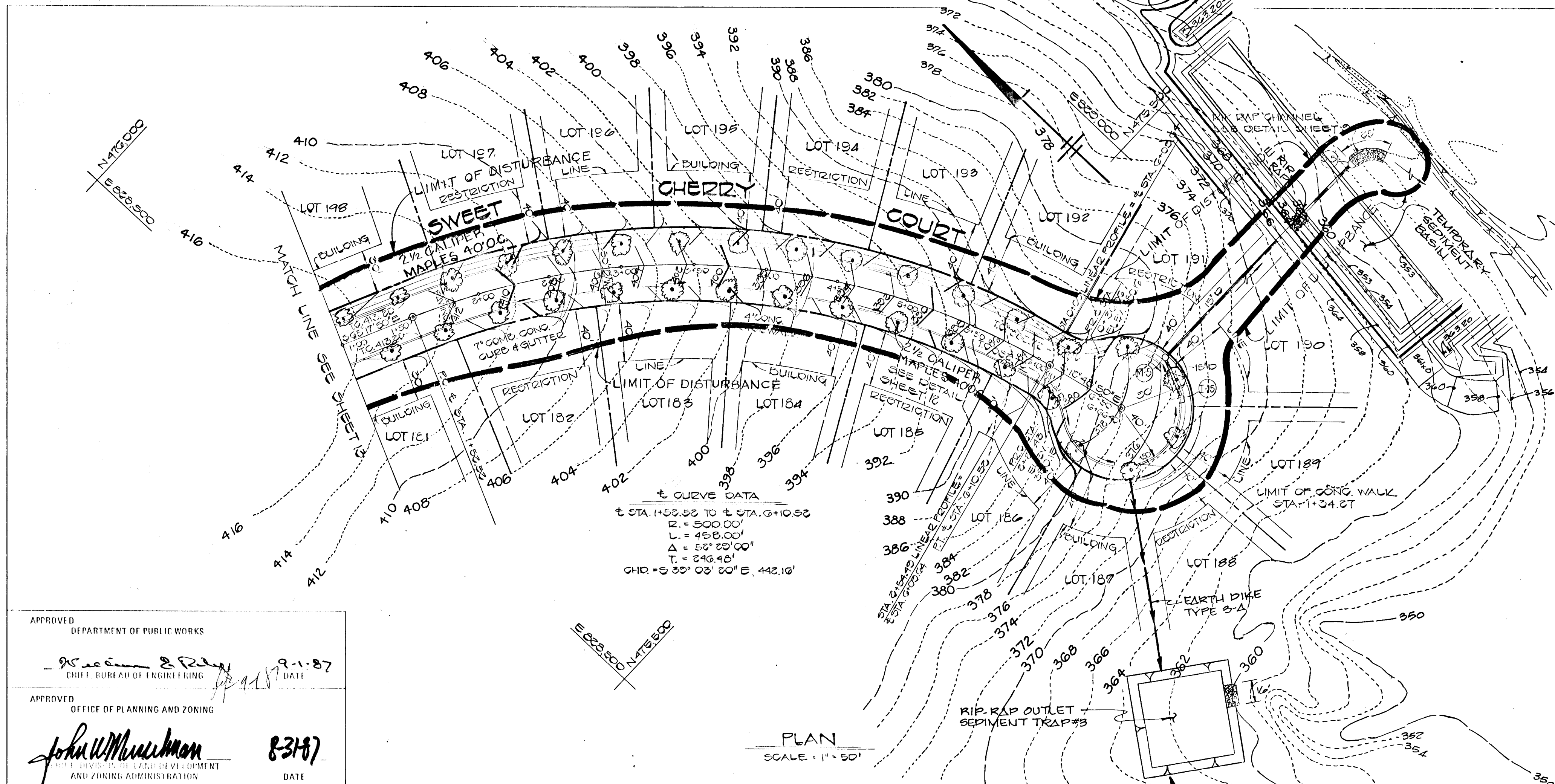
SWEET CHERRY COURT
 STREET TREE PLAN & GRADING PLAN

OWNER AND DEVELOPER
 CHERRYTREE VENTURE
 7979 OLD GEORGETOWN ROAD, SUITE 805
 BETHESDA, MARYLAND 20814

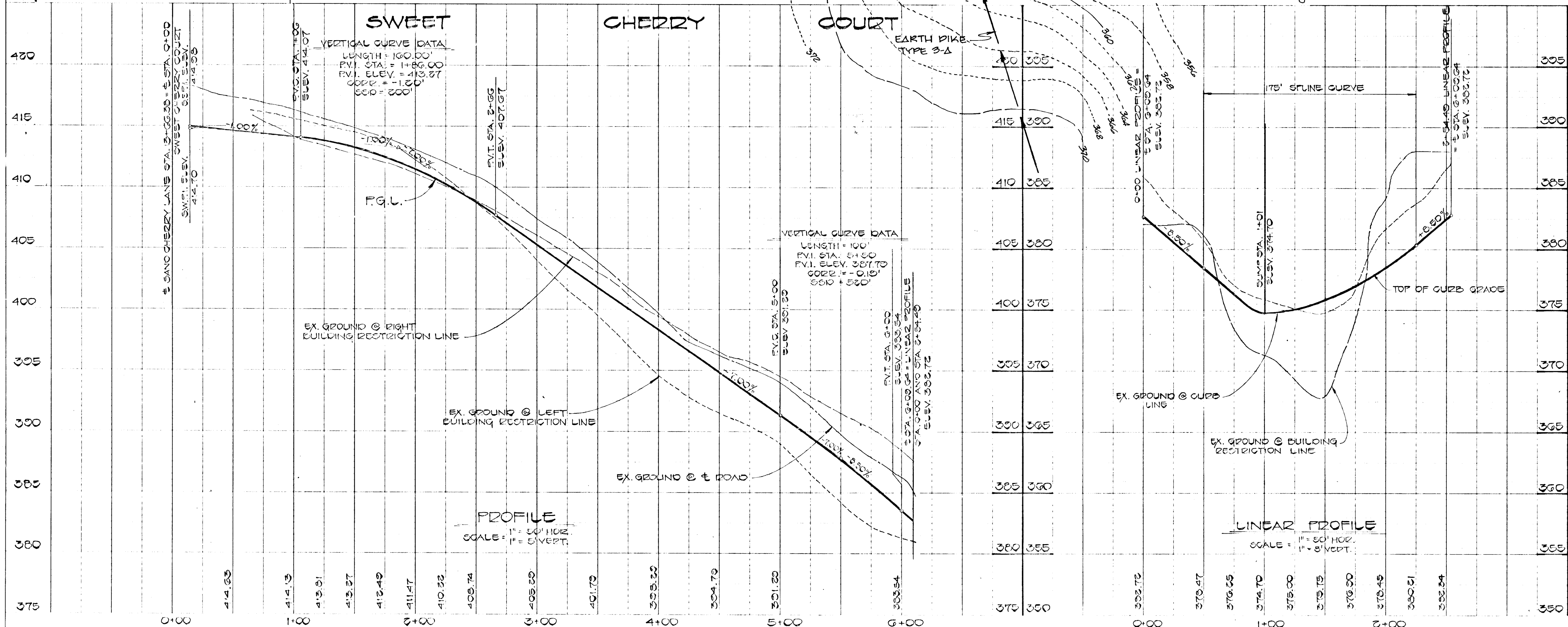
SCALE AS SHOWN DATE MARCH 31, 1987 DWG. NO. 16 OF 20
 DES. C. CROVO DRN. A. BOGDAN CHK. R. CARTER

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

Charles J. Crovo Sr.
 CHARLES J. CROVO SR. DATE



PLAN
 SCALE: 1" = 50'



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

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

John W. Murkin
 9/1/87
 For AS-BUILT by
 Clark, Furber & Sackett, Inc.

See Sheet 6 of 20 For
 "As-Built" Information

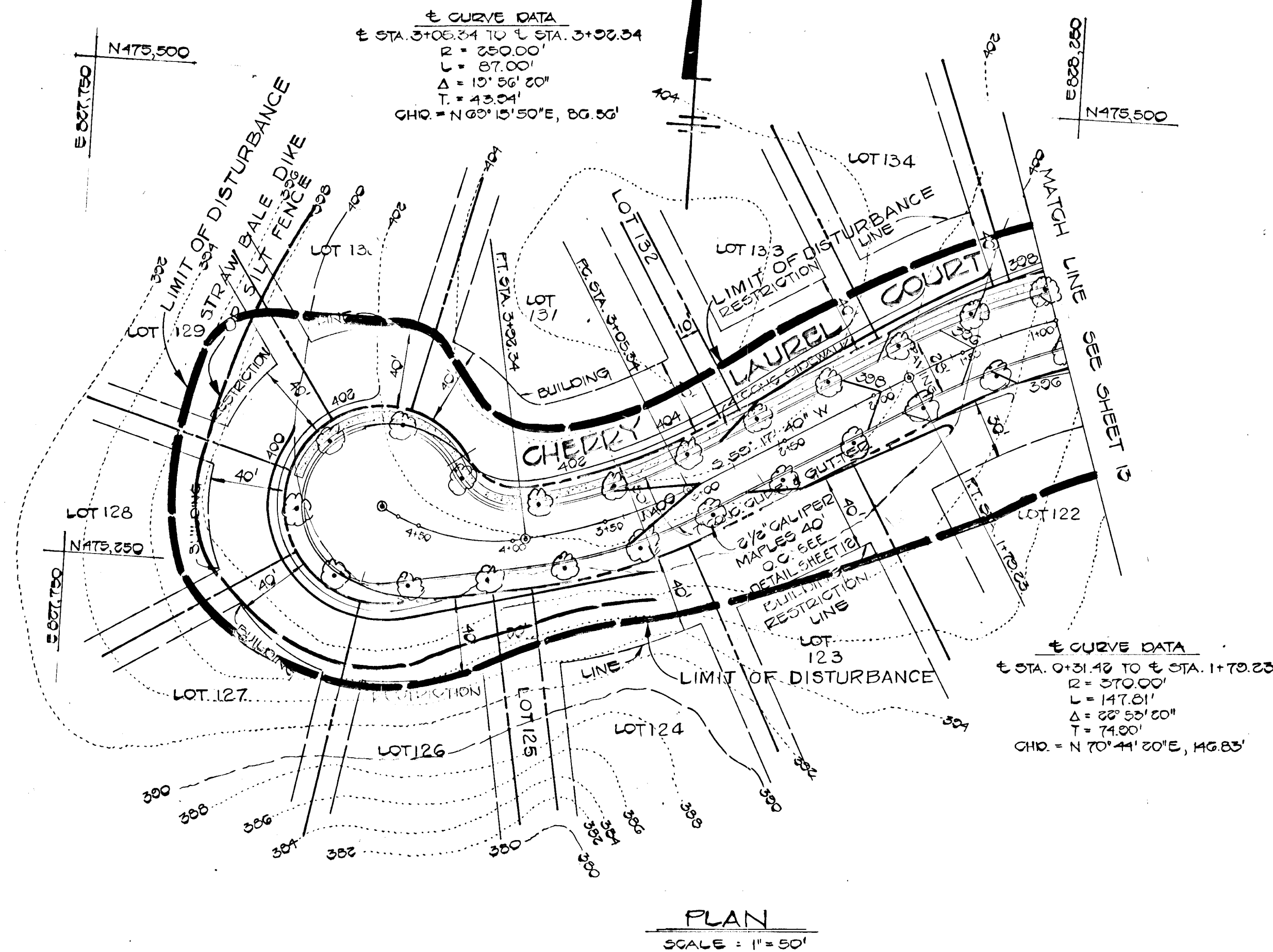
1109

PLAN	SURVEYED	DATE
	PLANNED	
	DRAWN	
	CHECKED	
	BY	
	NO.	

APPROVED DEPARTMENT OF PUBLIC WORKS
John W. Meehan 8-1-87
 CHIEF, BUREAU OF ENGINEERING DATE

APPROVED OFFICE OF PLANNING AND ZONING
John W. Meehan 8-31-87
 CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE

PROFILE	SURVEYED	DATE
	PLANNED	
	DRAWN	
	CHECKED	
	BY	
	NO.	



CHERRY TREE FARMS
 SECTION 1, AREA 2
 LOTS 81 TO 203
 6TH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

CHERRY LAUREL COURT
 STREET TREE PLAN & GRADING PLAN

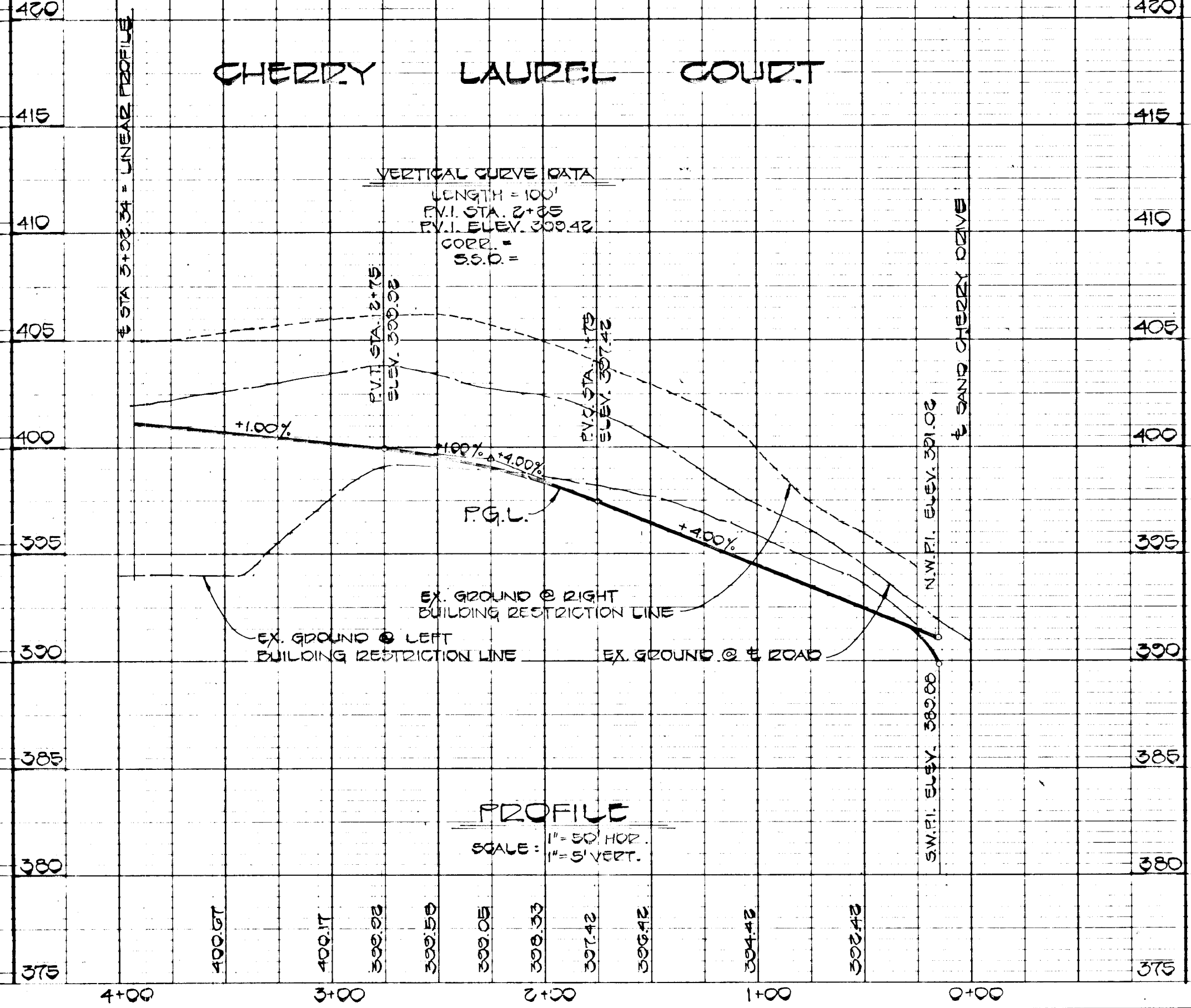
OWNER AND DEVELOPER
 CHERRYTREE VENTURE
 7979 OLD GEORGETOWN ROAD, SUITE 805
 BETHESDA, MARYLAND 20814

SCALE AS SHOWN DATE MARCH 31, 1987 DWG. NO. 17 OF 20
 DES. C. CROVO DRN. A. BOGDAN CHK. R. CARTER

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



PLAN
 SCALE: 1" = 50'

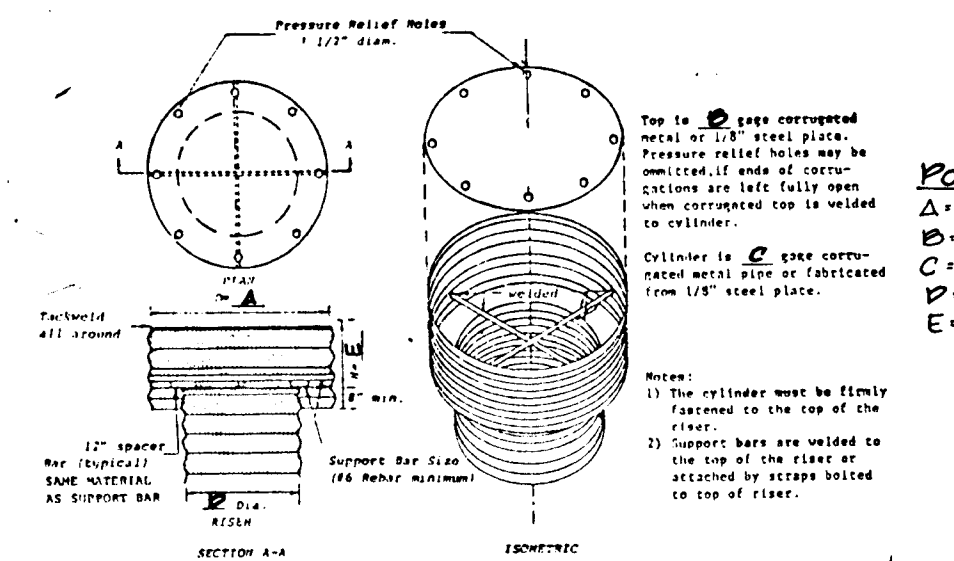


John W. Meehan
 8/1/87

For AS-BUILT by
 Clark Fireback & Sackett, Inc.

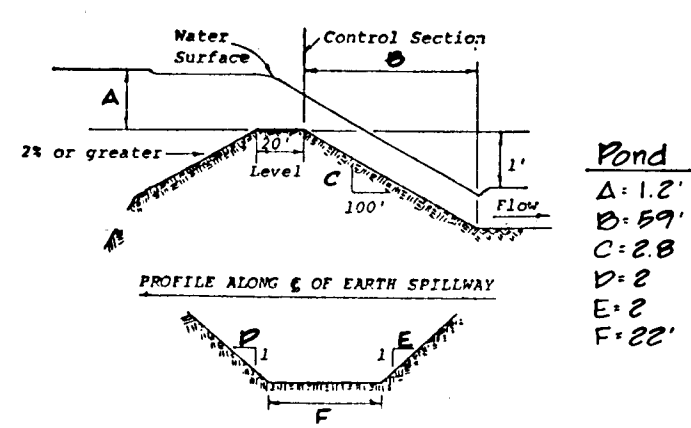
See Sheet 7 of 20 For
 "As-Built" Information

1109



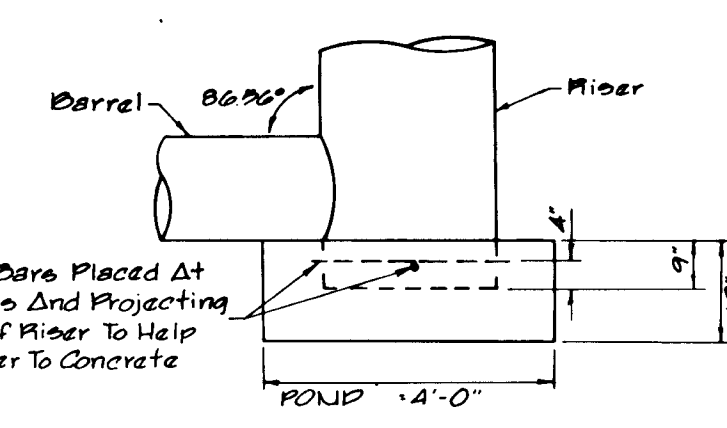
CONCENTRIC TRASH RACK AND ANTI-VORTEX DEVICE

No Scale



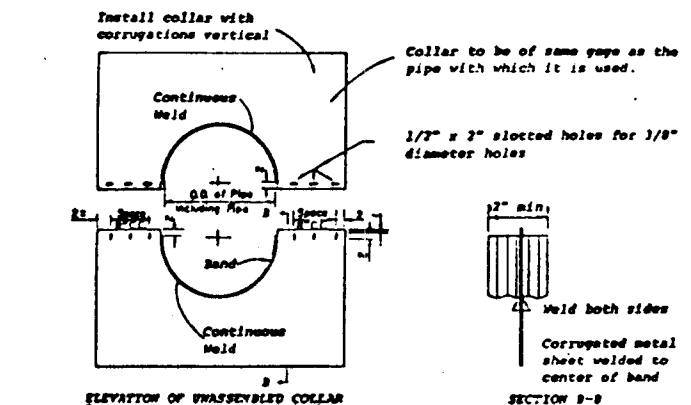
CROSS SECTION OF EARTH SPILLWAY AT CONTROL SECTION

No Scale



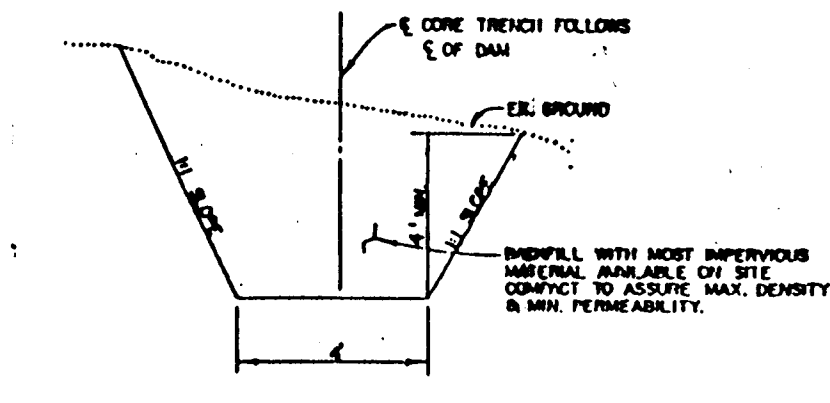
RISER BASE DETAIL

No Scale



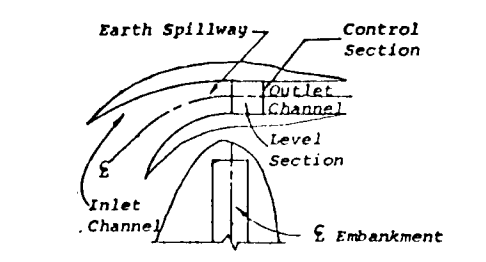
DETAILS OF CORRUGATED METAL ANTI-SEEP COLLAR

No Scale



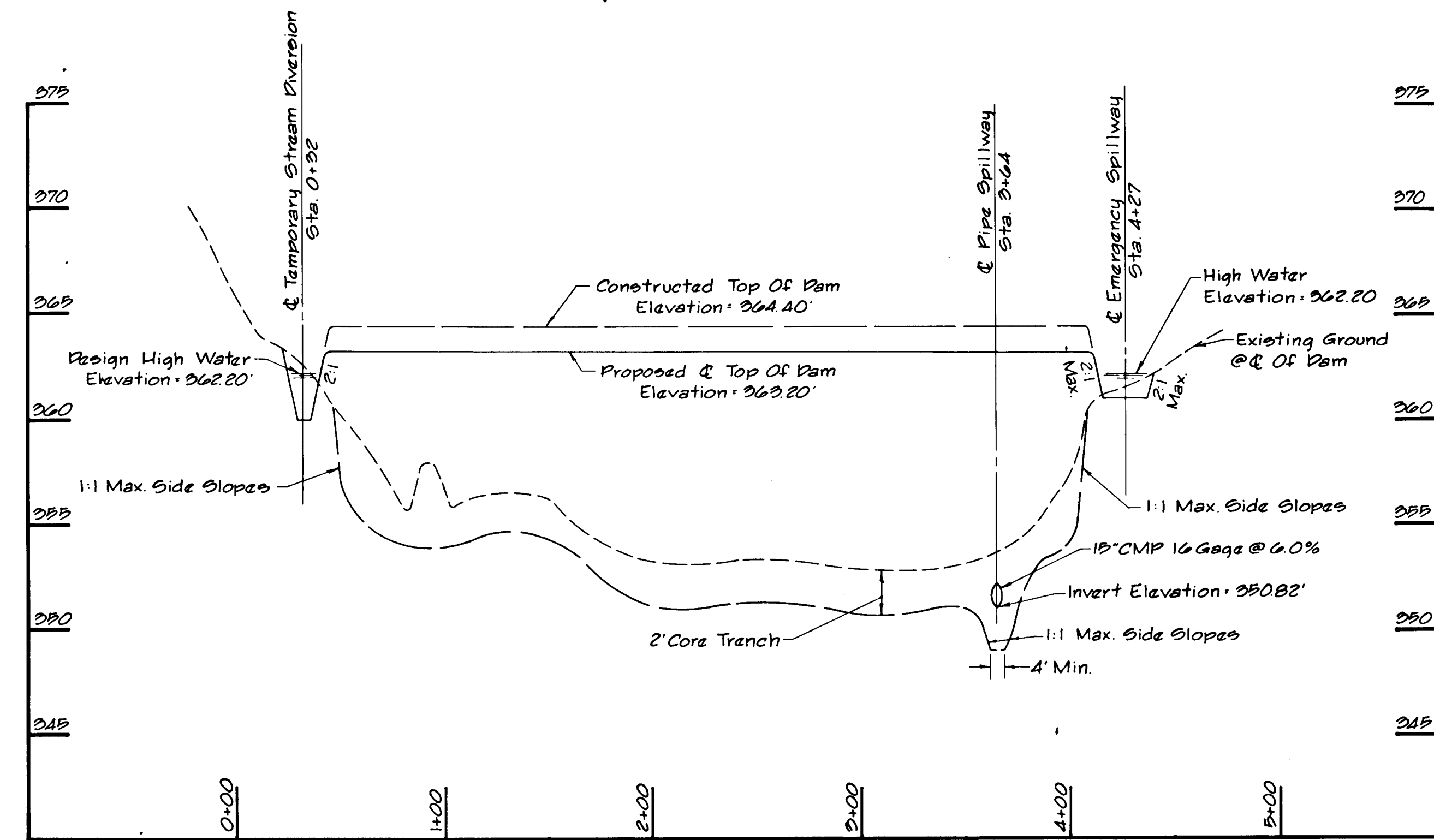
CORE TRENCH DETAIL

No Scale



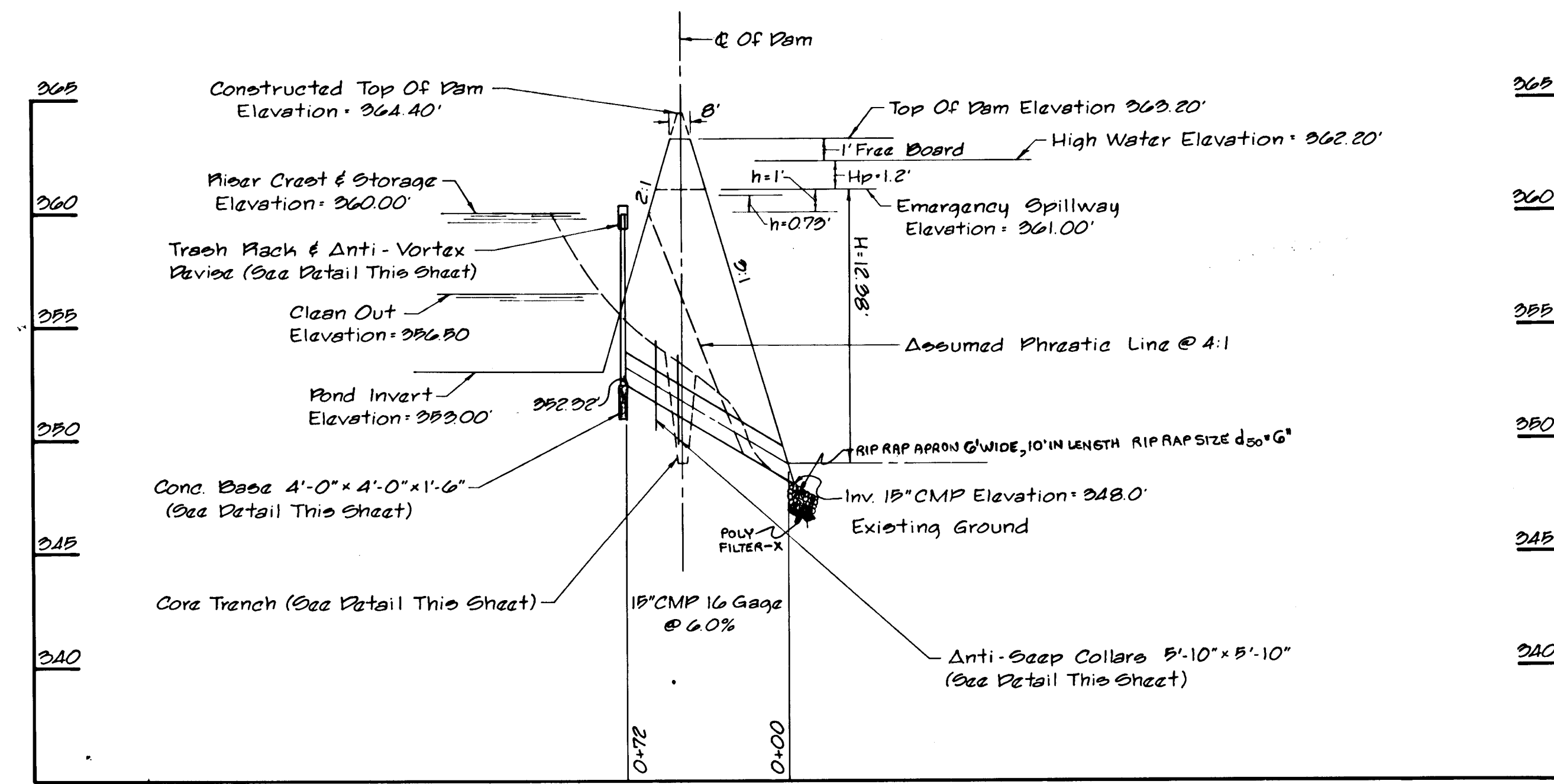
PLAN OF EARTH SPILLWAY

No Scale



TEMPORARY SEDIMENT BASIN CORE TRENCH PROFILE

Scale: 1" = 20' Horiz.
1" = 5' Vert.



TEMPORARY SEDIMENT BASIN CROSS SECTION AT RISER AND BARREL

Scale: 1" = 20' Horiz.
1" = 5' Vert.

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: [Signature] DATE: 11/3/87

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: [Signature] DATE: 11/2/87

CONSTRUCTION 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 clean-out and restoration, the pool area (constructed at the top of the pipe spillway) will be cleared of all brush, trees, and other objectionable materials.

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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 riser crest elevation. The minimum bottom width shall be four feet, but wide enough to permit operation of excavation and compaction equipment. The side slopes shall be no steeper than 1:1. Compaction requirements shall be the same as those for embankment. The trench shall be dewatered during the backfilling-compaction operations.

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Pipe Spillways
The riser shall be securely attached to the barrel or barrel stub by welding the full circumference making a watertight structural 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 band assemblies. (See page 18.22 for details.) The barrel and riser shall be placed on a firm, smooth foundation of impervious soil. Pervious materials such as sand, gravel, or crushed stone shall not be used as backfill around the pipe or anti-seep collars. 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.

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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 unstabilized for more than seven(7) days.

Erosion and Pollution Control
Construction operations shall be carried out in such a manner that erosion and water pollution will be minimized. State and local laws shall be complied with concerning pollution abatement.

Safety
State and local requirements shall be met concerning fencing and signs, warning the public of hazards of soft sediment and floodwater.

Maintenance
1. Repair all damages caused by soil erosion and construction equipment at or before the end of each working day.
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When temporary structures have served their intended purpose and the contributing drainage area has been properly stabilized, the embankment and resulting sediment deposits are to be leveled or otherwise disposed of in accordance with the approved sediment control plan. The proposed use of a sediment basin site will often dictate final disposition of the basin and any sediment contained therein. If the site is scheduled for future construction, then the basin material and trapped sediments must be removed, safely disposed of, and backfilled with a structural fill. When the basin area is to remain open space the pond may be pumped dry, graded and back

TEMPORARY SEDIMENT BASIN AND DETAILS

CHERRYTREE FARMS
SECTION 1, AREA 2
LOTS 81 TO 205
6TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

SHEET
19 OF 20

For AS-BUILT by
Clark, Fine, Prock & Sackett, Inc.

APPROVED
DEPARTMENT OF PUBLIC WORKS
[Signature] 3-1-88
CHIEF, LAND DEVELOPMENT DIVISION DATE

[Signature] 3/3/88
CHIEF, BUREAU OF HIGHWAYS DATE

[Signature] 3-3-88
CHIEF, BUREAU OF ENGINEERING DATE

APPROVED
OFFICE OF PLANNING AND ZONING
[Signature] 3/11/88
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

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



1109

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. 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 objectionable materials. The embankment shall be constructed to an elevation which provides for anticipated settlement to the design elevation. The weight 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 C-0 or M, as approved by Soils Engineer.

Placement
Areas on which fill is to be placed shall be scarified prior to placement of fill. All 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.

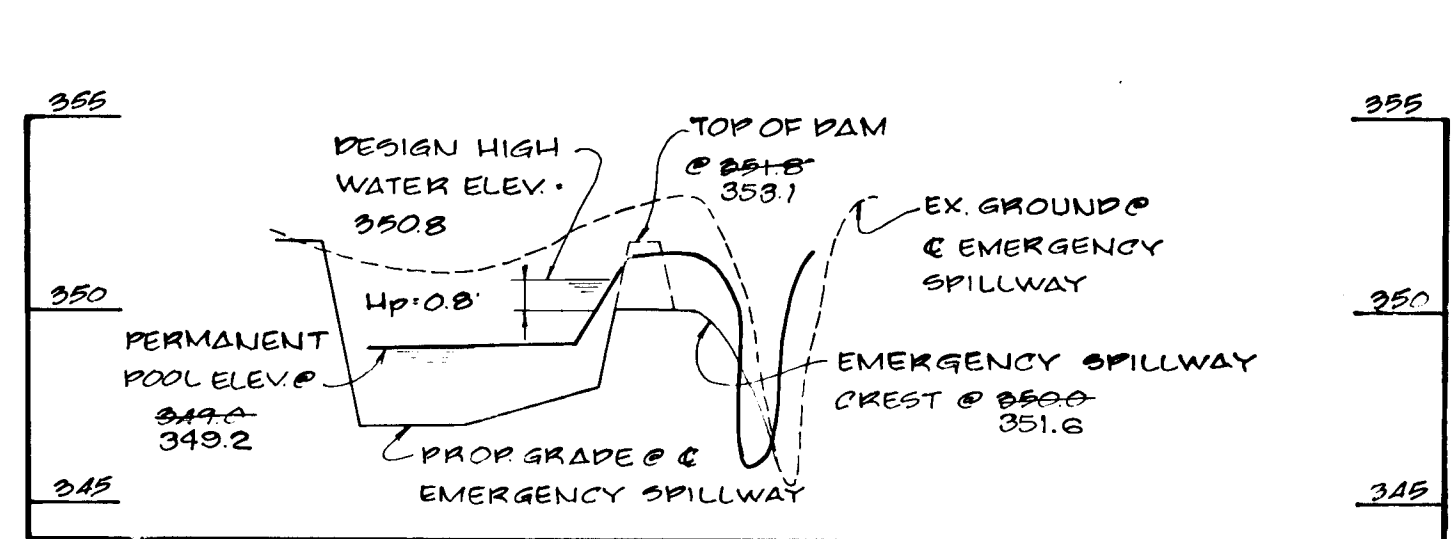
Core Trench
Where specified, a core trench shall be excavated along or parallel to the centerline of the embankment, as shown on the plans. The bottom width of the trench shall be governed by the equipment used for excavation, with the minimum width being 4-feet. The depth shall be at least 4-feet or 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 pervious material available and shall be compacted to a minimum of 95% of AASHTO T-99 density. Materials shall be C-0 or M, 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 tamming or other compaction equipment. The material needed to complete all spaces under and adjacent to the pipe. No dirt 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
1. Materials - "Steel Pipe" - This pipe and its appurtenances shall conform to the requirements of AASHTO Specification M-196 or M-211, with watertight coupling bands.
2. Connections - All connections with pipes must be completely watertight. The drain pipe or barrel connection to the control structure shall be increased 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.
3. 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.
4. Laying Pipe - The pipe shall be placed with ferrule circumferential lapping downstream and with the longitudinal lapping at the slope.
5. Backfilling shall conform to structural backfill as shown above.
6. Other details (anti-seep collars, valves, etc.) shall be as shown on the drawings.

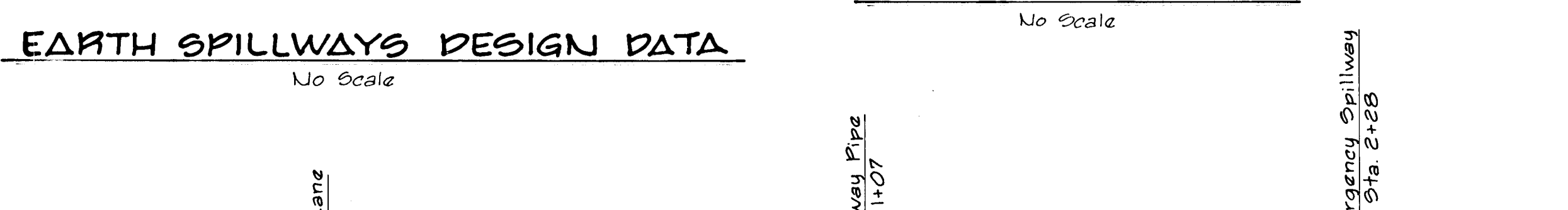
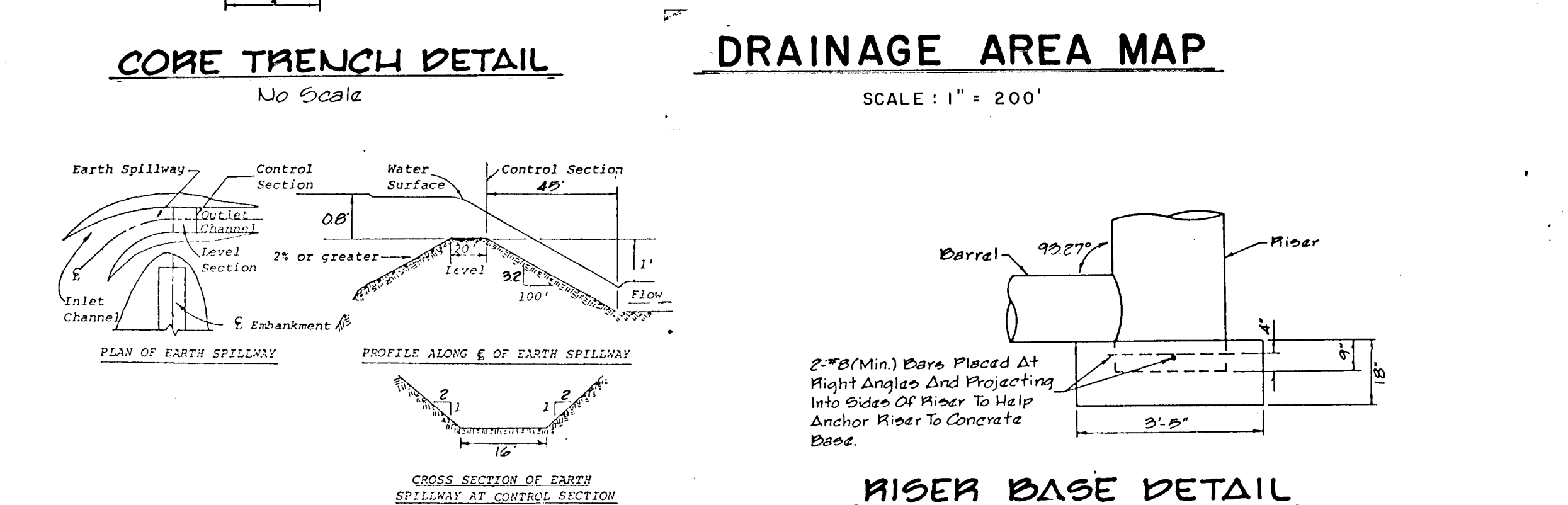
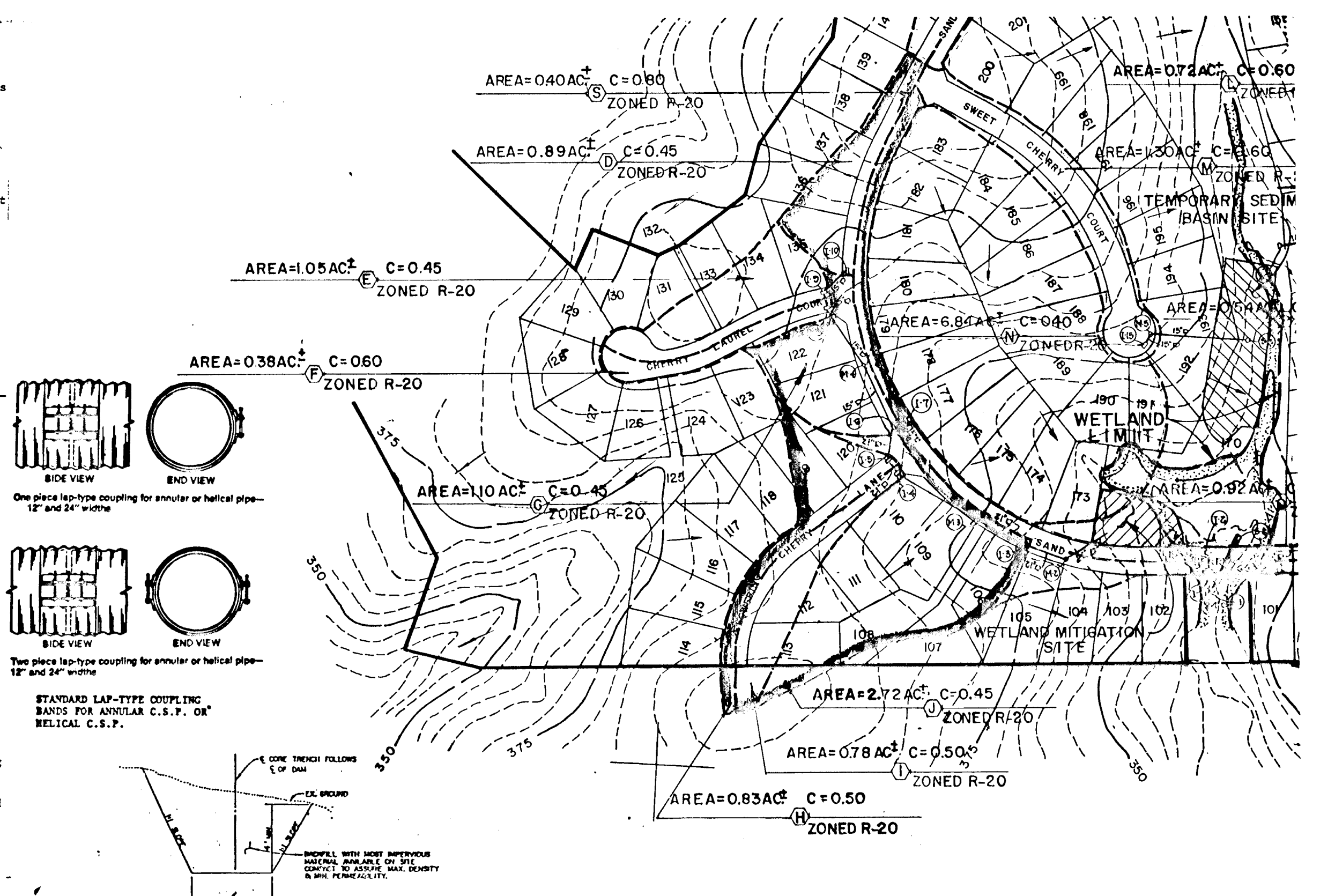
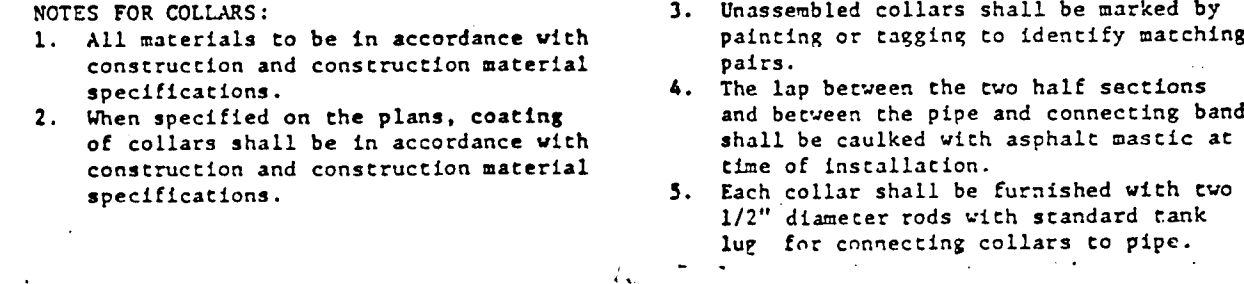
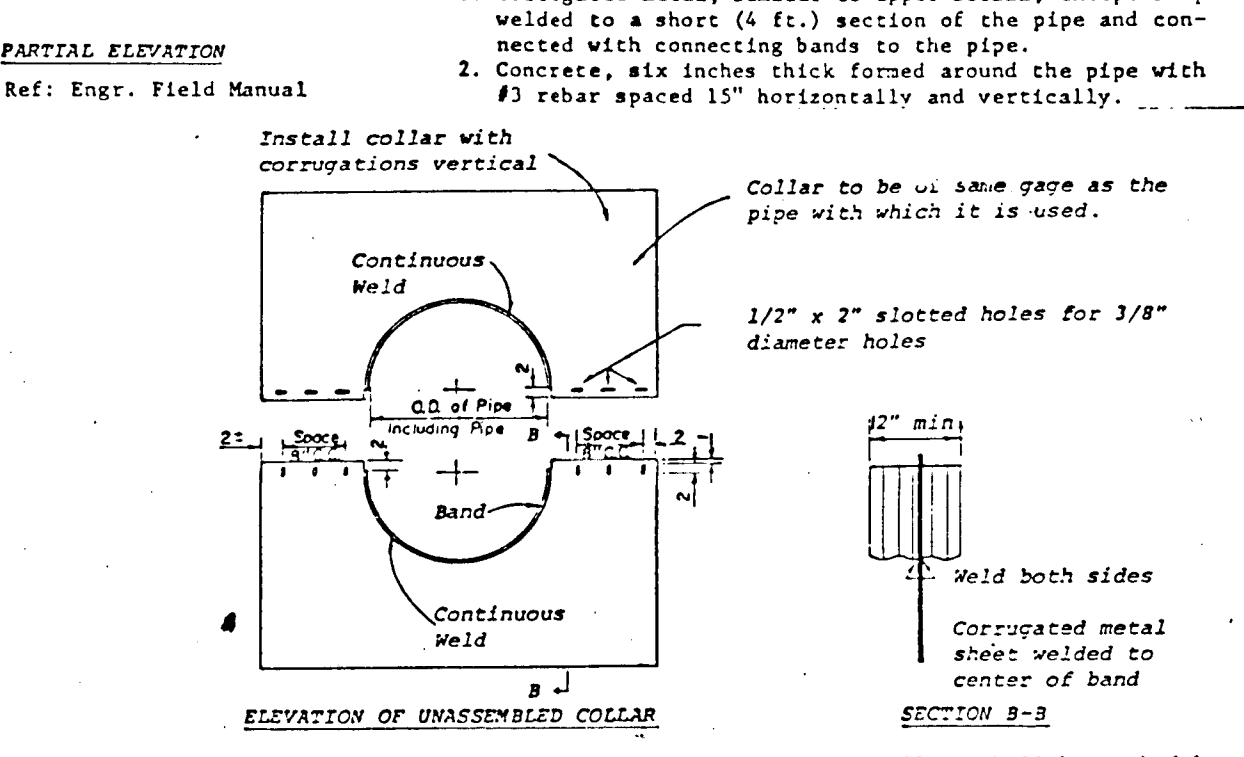
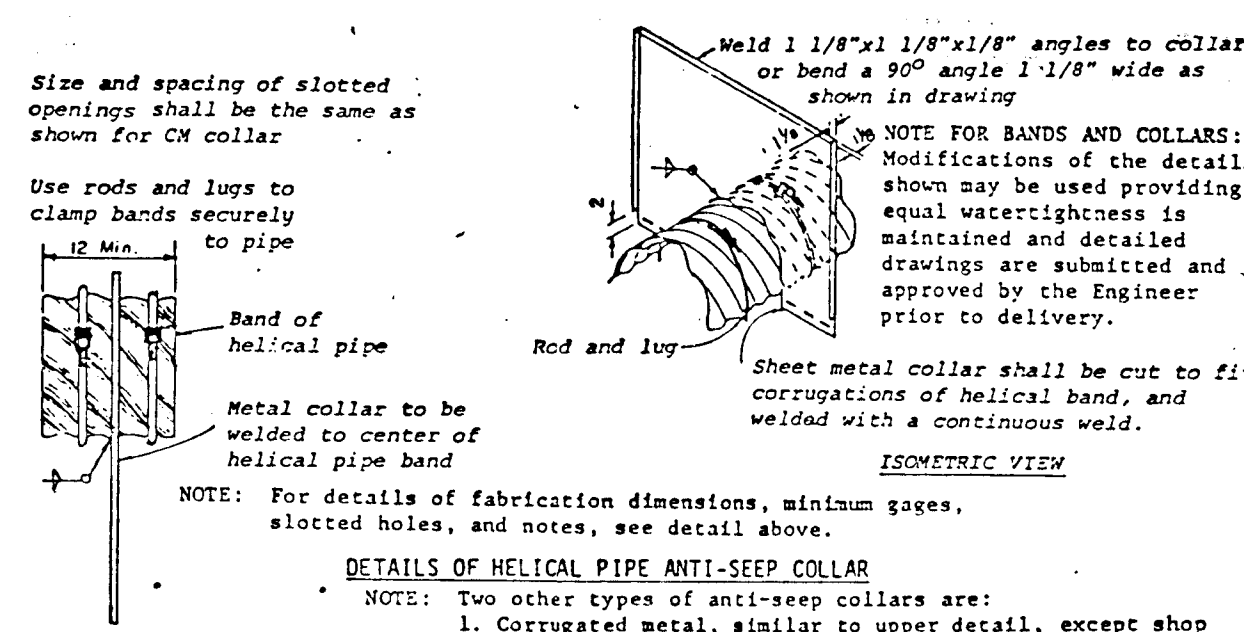
V. CONCRETE
Concrete shall meet minimum requirements set forth in Maryland State Highway Administration Specifications for Materials, Highways, Bridges, and Incidental Structures, Article 20.07 (Portland Cement Concrete Mixtures), Mix No. 3.

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 final grading.
All exposed areas of the embankment and pond shall be stabilized by:
a. Spreading 4" topsoil.
b. Working in 1.00" of ground limestone (92 LBS/1000 SQ. FT.) AND 400 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ. FT.) BEFORE SEEDING.
c. Seed with 40 lbs./acre of Kentucky 31" tall fescue, and 15 lbs./acre of Crowsfoot trisetaria.
d. The seed mix shall be applied at 388 gallons/acre.



CONSTRUCTION SEQUENCE FOR THE WETLAND MITIGATION BASIN

- 1) CONSTRUCT THE BASIN AS SHOWN ON THIS SHEET.
- 2) CONSTRUCT ROAD TO SUBGRADE AND INSTALL STORM DRAIN SYSTEM TO THE BASIN.
- 3) 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.
- 4) SEDIMENT SHALL BE REMOVED FROM THE BASIN WHEN THE CLEANOUT ELEVATION 348.00 HAS BEEN REACHED.
- 5) UPON STABILIZATION OF THE AREA DRAINING TO THE BASIN, THE BASIN SHALL BE GRADED IN ACCORDANCE WITH THE PLAN AND STABILIZED WITH PERMANENT SEEDING.
- 6) NOTIFY HOWARD COUNTY OFFICE OF INSPECTION AND PERMITS FOR FINAL INSPECTION AT DURATION OF PROJECT.



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: *John A. Helm* DATE: 11/2/07

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: *Cheryl Combs* DATE: 11/3/07

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. Helm* DATE: 2-26-08

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

Signature: *James M. Helm* DATE: 2-26-08

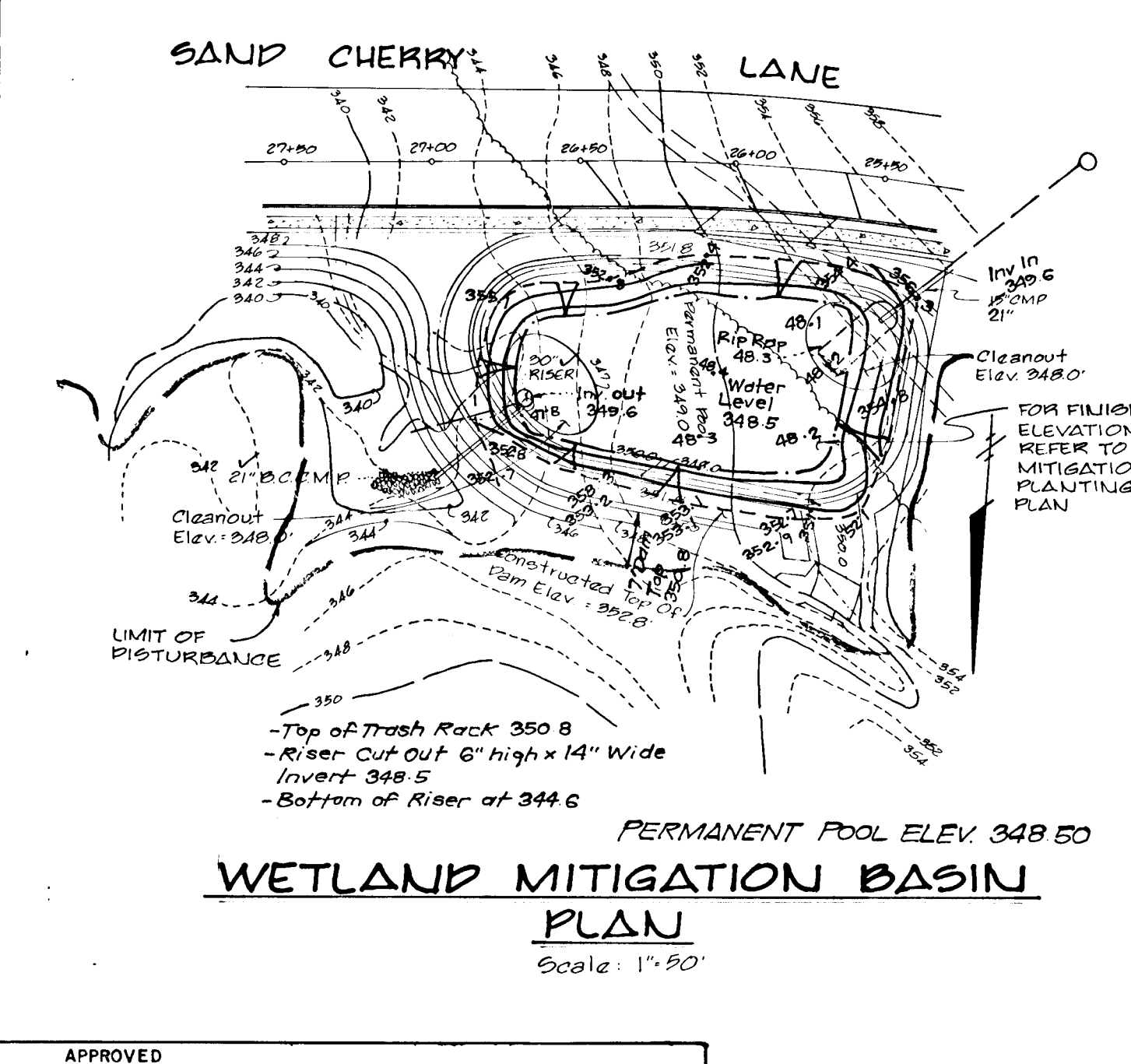
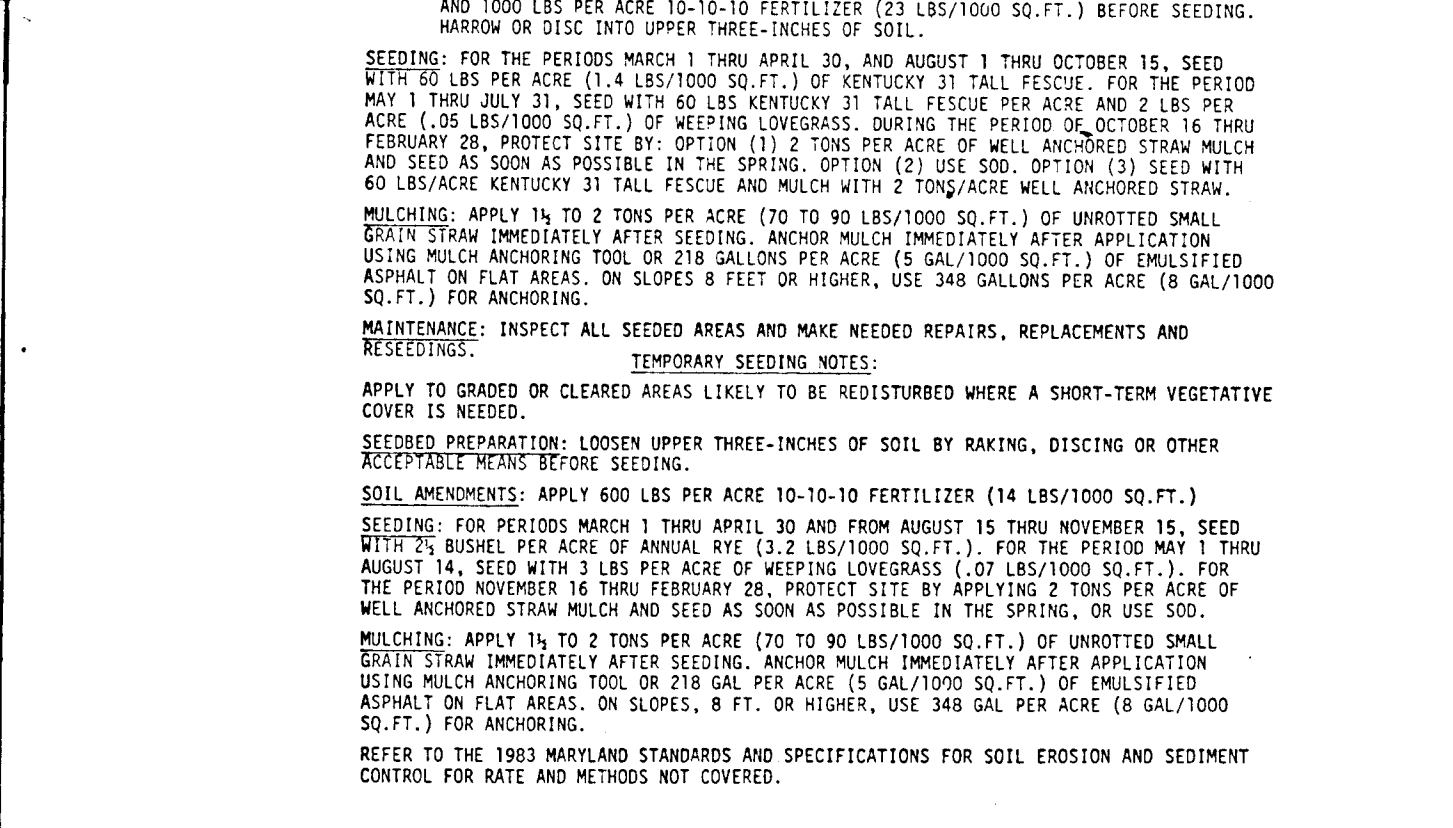
APPROVED
DEPARTMENT OF PUBLIC WORKS
Signature: *Mark H.* DATE: 3-1-08

Signature: *James W. McElreath* DATE: 3/3/08
CHIEF, BUREAU OF HIGHWAYS

Signature: *William J. Kelly* DATE: 3-3-08
CHIEF, BUREAU OF ENGINEERING

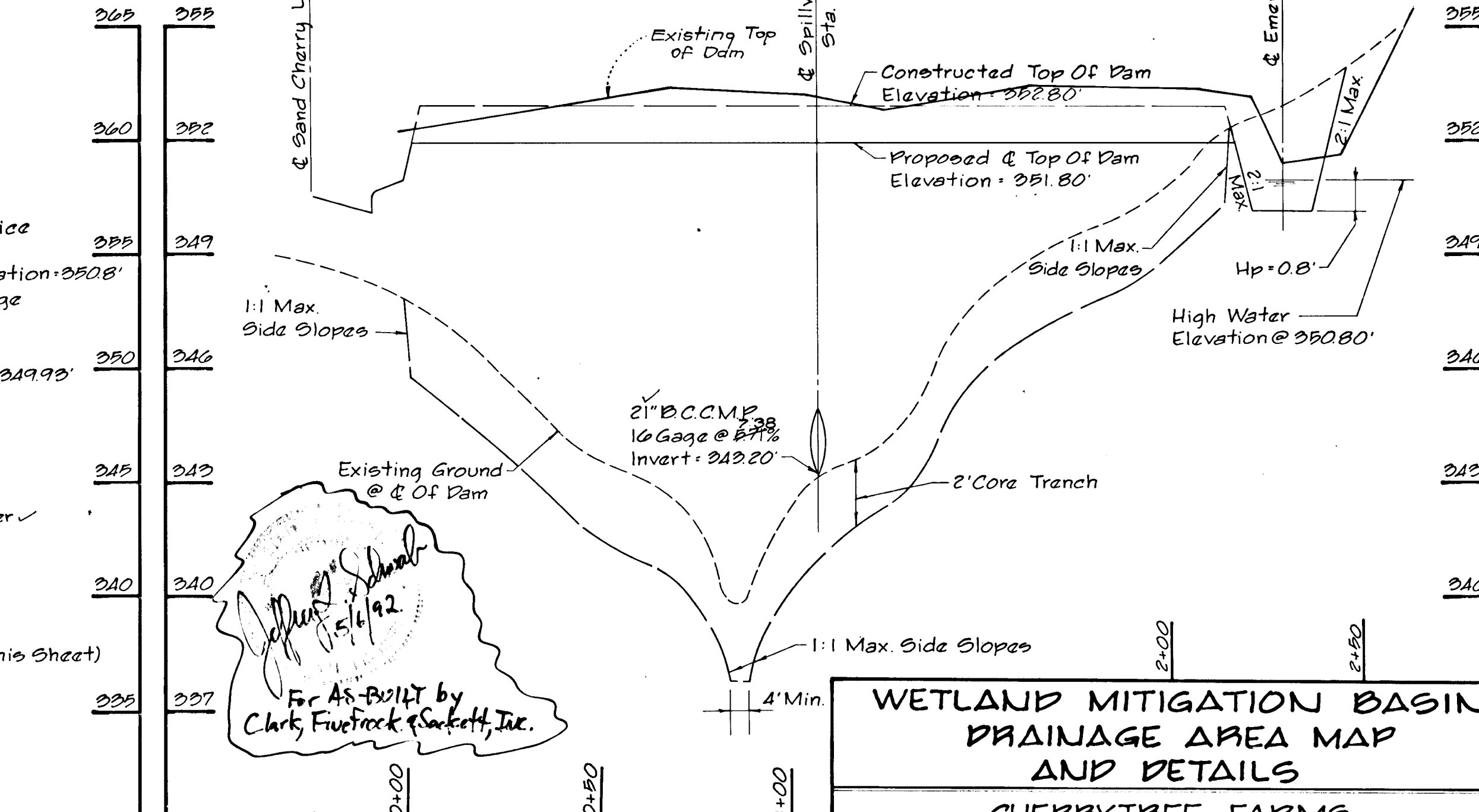
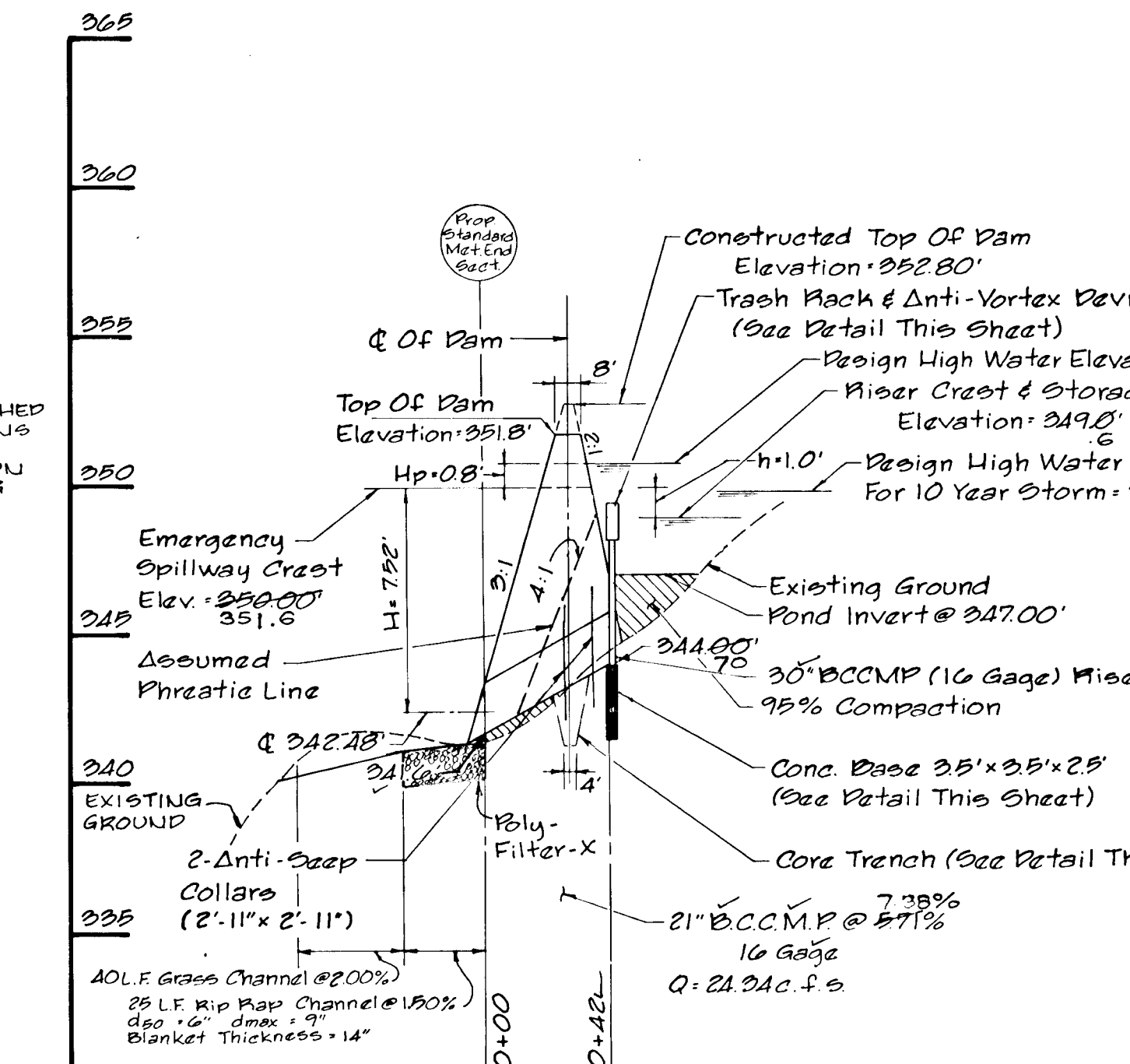
FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERS & LAND SURVEYORS
8388 COURT AVENUE
ELLCOTT CITY, MARYLAND 21043

PERMANENT SEEDING NOTES:
APPLY TO GRADED OR CLEARED AREA NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG-LIVED VEGETATIVE COVER IS NEEDED.
SEEDBED PREPARATION: LOOSEN UPPER THREE-INCHES OF SOIL BY BAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING.
SOIL AMENDMENTS: IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ONE OF THE FOLLOWING SCHEDULES:
1) PREFERRED - APPLY 2 TONS PER ACRE OLIGOMITIC LIMESTONE (92 LBS/1000 SQUARE FT.) AND 400 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ. FT.) BEFORE SEEDING.
HARROW OR DISC INTO UPPER THREE-INCHES OF SOIL. AT TIME OF SEEDING, APPLY 400 LBS. PER ACRE 30-0-0 UREAFORM FERTILIZER (9 LBS/1000 SQ. FT.).
2) ACCEPTABLE - APPLY 2 TONS PER ACRE OLIGOMITIC LIMESTONE (92 LBS/1000 SQ. FT.) AND 1000 LBS PER ACRE 10-10-10 FERTILIZER (23 LBS/1000 SQ. FT.) BEFORE SEEDING.
HARROW OR DISC INTO UPPER THREE-INCHES OF SOIL.
SEEDING: FOR THE PERIODS MARCH 1 THRU APRIL 30, AND AUGUST 1 THRU OCTOBER 15, SEED WITH 50 LBS PER ACRE (11.4 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 (0.5 LBS/1000 SQ. FT.) OF WEEPING LOVERGASS. 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, OR USE 500.
OPTION (2) SEED WITH 60 LBS/ACRE KENTUCKY 31 TALL FESCUE AND MULCH WITH 2 TONS/ACRE WELL ANCHORED STRAW MULCH. APPLY 1/4 TO 2 TONS PER ACRE (70 TO 90 LBS/1000 SQ. FT.) OF UNROOTED SMALL BRUSH STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GALLONS PER ACRE (5 GAL/1000 SQ. FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES 8 FEET OR HIGHER, USE 348 GALLONS PER ACRE (8 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 AREAS LIKELY TO BE REDISTURBED WHERE A SHORT-TERM VEGETATIVE COVER IS NEEDED.
SEEDBED PREPARATION: LOOSEN UPPER THREE-INCHES OF SOIL BY BAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING.
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 15, SEED WITH 25 BUSHEL PER ACRE OF ANNUAL RYE (3.2 LBS/1000 SQ. FT.). FOR THE PERIOD MAY 1 THRU AUGUST 15, SEED WITH 3 LBS PER ACRE OF WEEPING LOVERGASS (0.7 LBS/1000 SQ. FT.). FOR THE PERIOD NOVEMBER 16 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, OR USE 500.
MULCHING: APPLY 1/4 TO 2 TONS PER ACRE (70 TO 90 LBS/1000 SQ. FT.) OF UNROOTED SMALL BRUSH STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GAL PER ACRE (5 GAL/1000 SQ. FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES 8 FT. OR HIGHER, USE 348 GAL PER ACRE (8 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.



OWNER AND DEVELOPER
CHERRYTREE VENTURE
SUITE 805
7979 OLD GEOMETOWN ROAD
BETHESDA, MARYLAND 20814

Signature: *James M. Helm* DATE: 3/1/08
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT



WETLAND MITIGATION BASIN DRAINAGE AREA MAP AND DETAILS
CHERRYTREE FARMS
SECTION 1, AREA 2
LOTS 81 TO 205
6TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

Signature: *Cheryl Combs* DATE: 5/1/02
FOR AS-BUILT BY: *Cheryl Combs & Associates, Inc.*

1109