

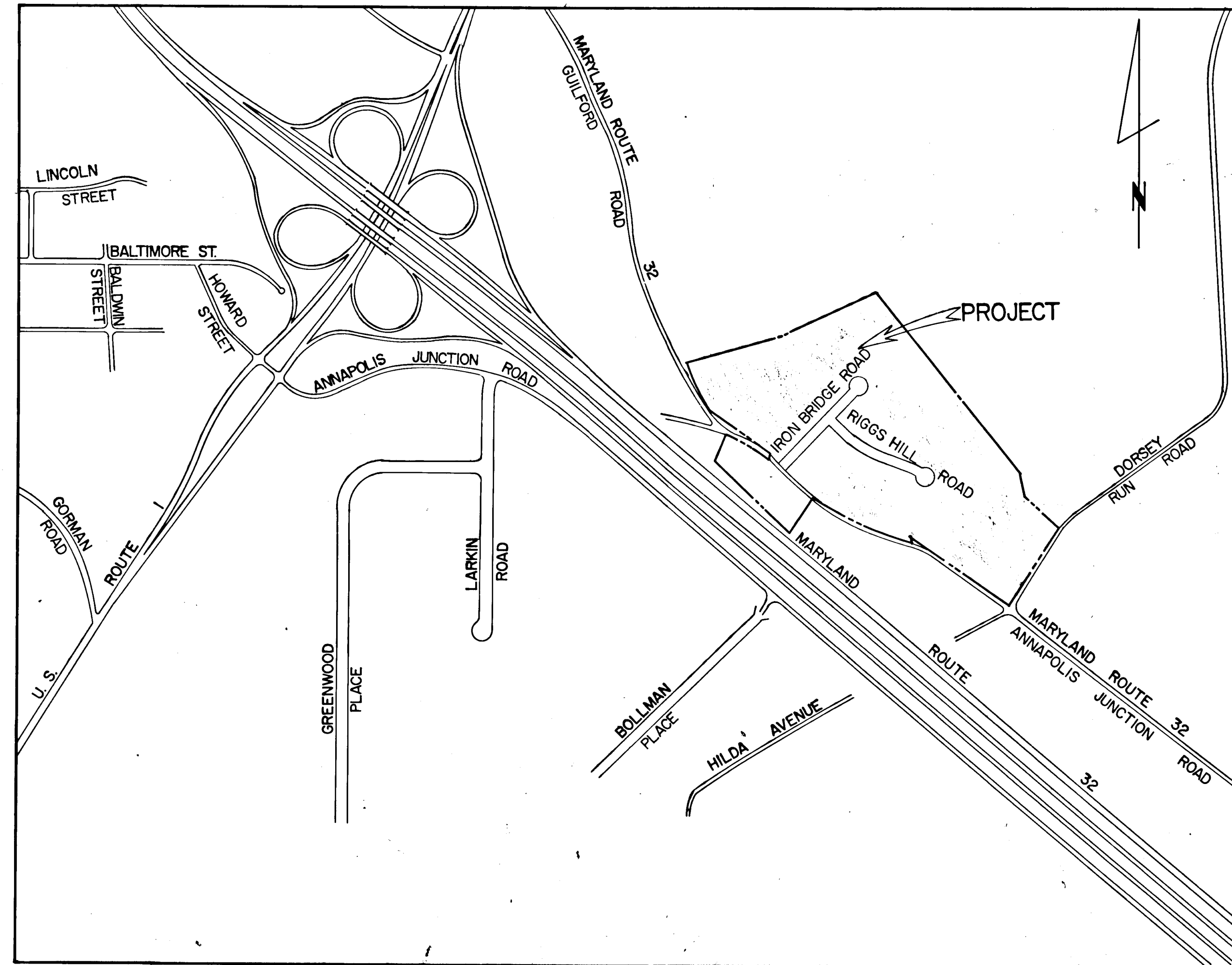
GENERAL NOTES

- 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) APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING UTILITIES AND TO MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO CONTRACTOR'S OPERATIONS SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
- 7) THE CONTRACTOR SHALL TEST PIT EXISTING UTILITIES WHERE DIRECTED BY THE ENGINEER A MINIMUM OF TWO WEEKS IN ADVANCE OF ANY CONSTRUCTION.
- 8) CONTRACTOR TO NOTIFY THE HOWARD COUNTY DEPT. OF INSPECTIONS AT LEAST 3 DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS. TELEPHONE: 792-7272

APPROVED	DEPARTMENT OF PUBLIC WORKS
<i>William E. P. ...</i>	9-7-84
CHIEF, BUREAU OF ENGINEERING	DATE
APPROVED	OFFICE OF PLANNING AND ZONING
<i>John M. Woodman</i>	9-4-84
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION	DATE

# CORRIDOR NORTH INDUSTRIAL PARK

- INDEX OF SHEETS**
- 1) TITLE SHEET
  - 2) IRON BRIDGE ROAD - PLAN AND PROFILE
  - 3) RIGGS HILL ROAD - PLAN AND PROFILE
  - 4) DORSEY RUN ROAD - PLAN AND PROFILE
  - 5) STORM WATER MANAGEMENT POND AND DRAINAGE AREA MAP
  - 6) STORM WATER MANAGEMENT POND, PROFILES, AND DETAILS
  - 7) STORM DRAIN PROFILES AND DETAILS
  - 8) SODDED CHANNEL PLAN, PROFILE, AND DETAILS
  - 9) ROAD SECTIONS AND DETAILS
  - 10) GRADING AND SEDIMENT CONTROL PLAN



LOCATION MAP  
SCALE: 1" = 600'

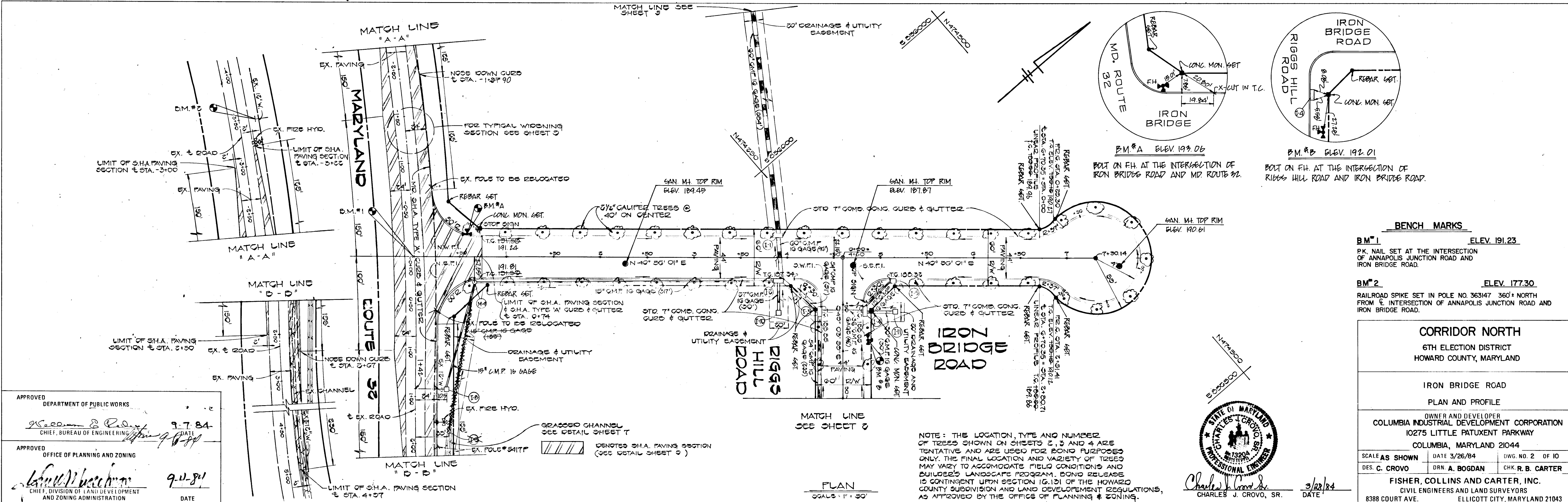
**OWNER AND DEVELOPER**  
COLUMBIA INDUSTRIAL DEVELOPMENT CORPORATION  
10275 LITTLE PATUXENT PARKWAY  
COLUMBIA, MARYLAND 21044



*Charles J. Crovo, Sr.* 3/28/84  
CHARLES J. CROVO, SR. DATE

#1093  
FISHER, COLLINS, AND CARTER, INC.  
CONSULTING ENGINEERS AND LAND SURVEYORS  
8388 COURT AVENUE  
ELLICOTT CITY, MARYLAND 21043  
TELEPHONE: (301) 461-2855

DATE	
BY	
SURVEYED	
PLOTTED	
CHECKED	
NO. OF WAY CHECKED	
PLAN	
NOTE BOOK	
NO.	



APPROVED  
DEPARTMENT OF PUBLIC WORKS  
*Charles J. Crovo, Sr.* 9-7-84  
CHIEF, BUREAU OF ENGINEERING

APPROVED  
OFFICE OF PLANNING AND ZONING  
*James W. ...* 9-11-84  
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION

STATE OF MARYLAND  
CHARLES J. CROVO, SR.  
PROFESSIONAL ENGINEER  
No. 13204  
DATE: 3/22/84

**CORRIDOR NORTH**  
6TH ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

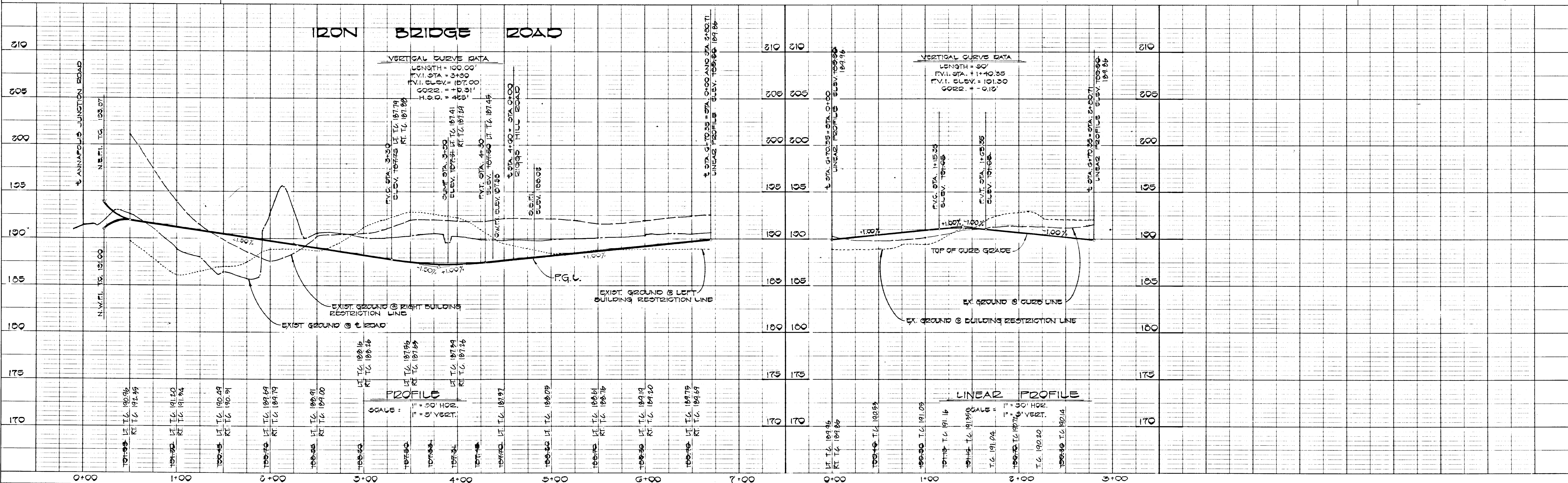
**IRON BRIDGE ROAD**  
PLAN AND PROFILE

OWNER AND DEVELOPER  
COLUMBIA INDUSTRIAL DEVELOPMENT CORPORATION  
10275 LITTLE PATUXENT PARKWAY  
COLUMBIA, MARYLAND 21044

SCALE AS SHOWN DATE 3/26/84 DWG. NO. 2 OF 10  
DES. C. CROVO DRN. A. BOGDAN CHK. R. B. CARTER

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

DATE	
BY	
SURVEYED	
PLOTTED	
CHECKED	
NO. OF WAY CHECKED	
PROFILE	
NOTE BOOK	
NO.	



#1093

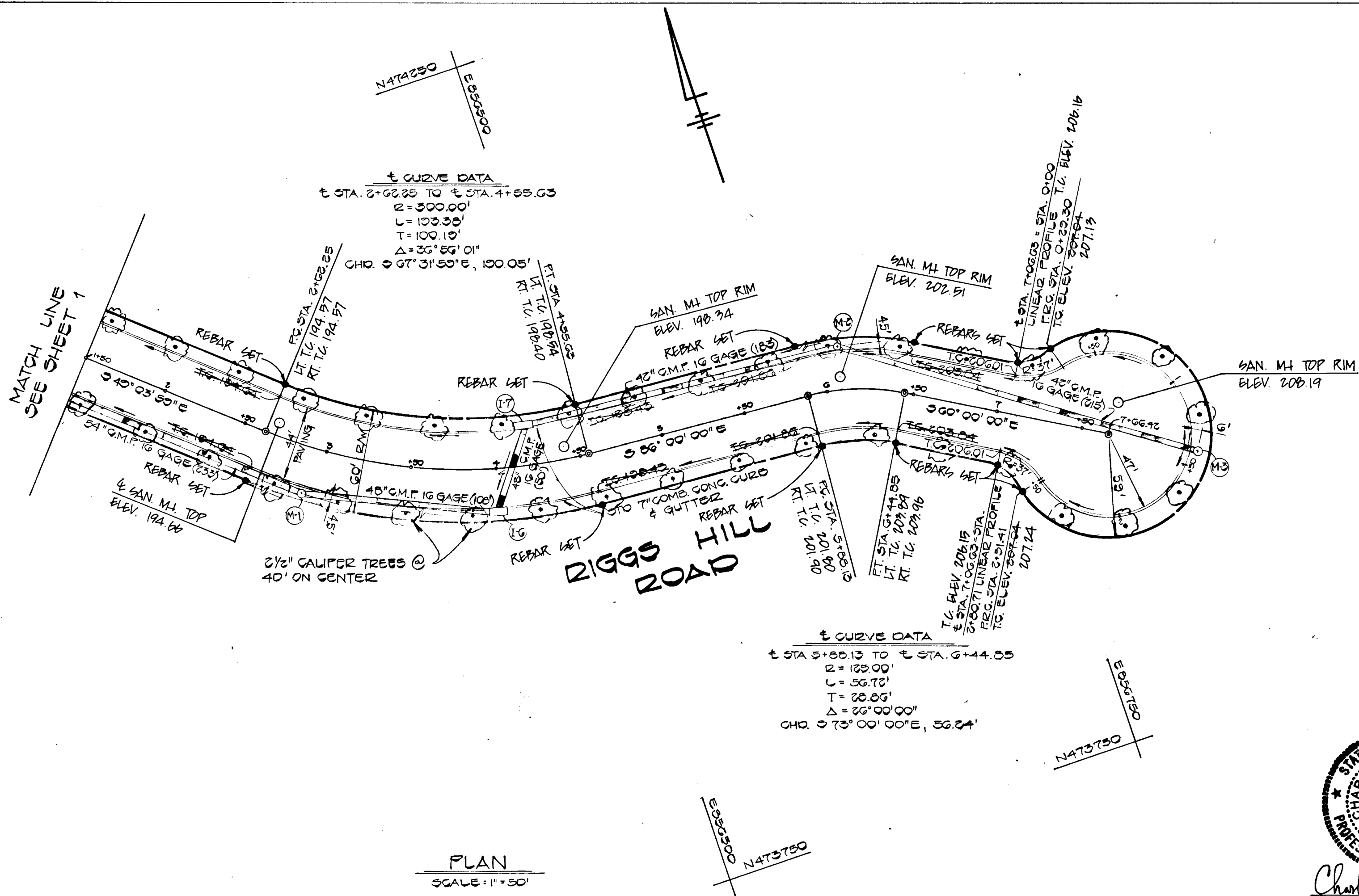
PLAN	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHNC	
	RT. OF WAY CHECKED	
	NO. _____	

APPROVED DEPARTMENT OF PUBLIC WORKS  
*James B. Rowe* 9-7-84  
 CHIEF, BUREAU OF ENGINEERING

APPROVED OFFICE OF PLANNING AND ZONING  
*John W. Wasserman* 9-4-84  
 CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHNC	
	NO. _____	

#1073



PLAN  
SCALE: 1" = 50'

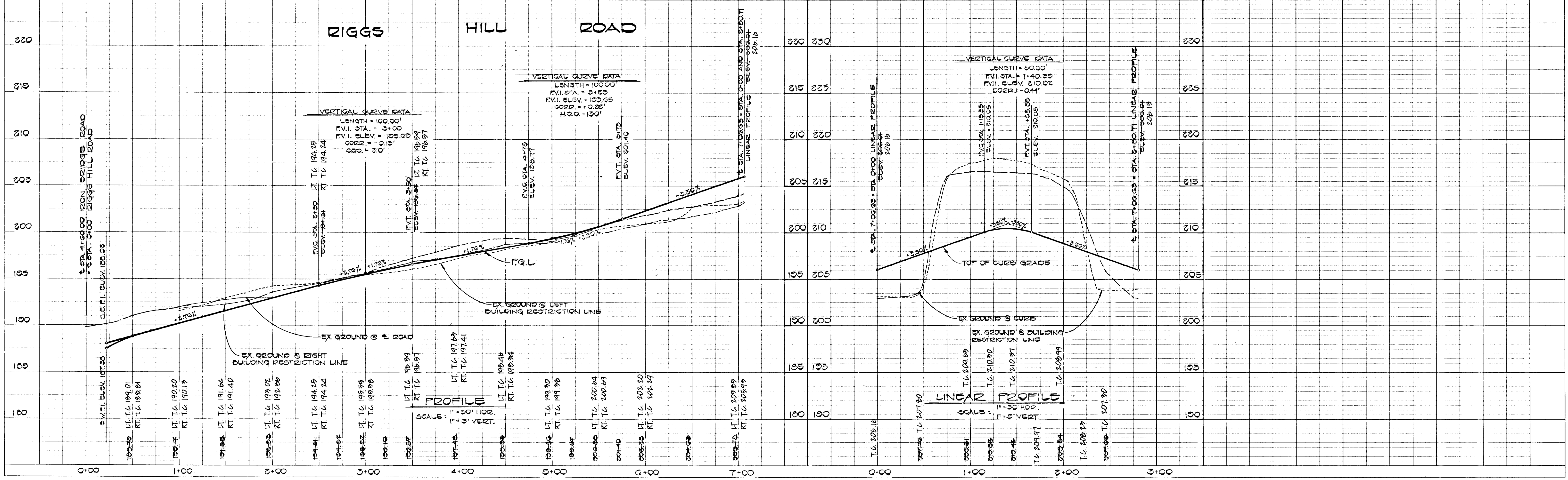
**CORRIDOR NORTH**  
 6TH ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND

**RIGGS HILL ROAD**  
 PLAN AND PROFILE

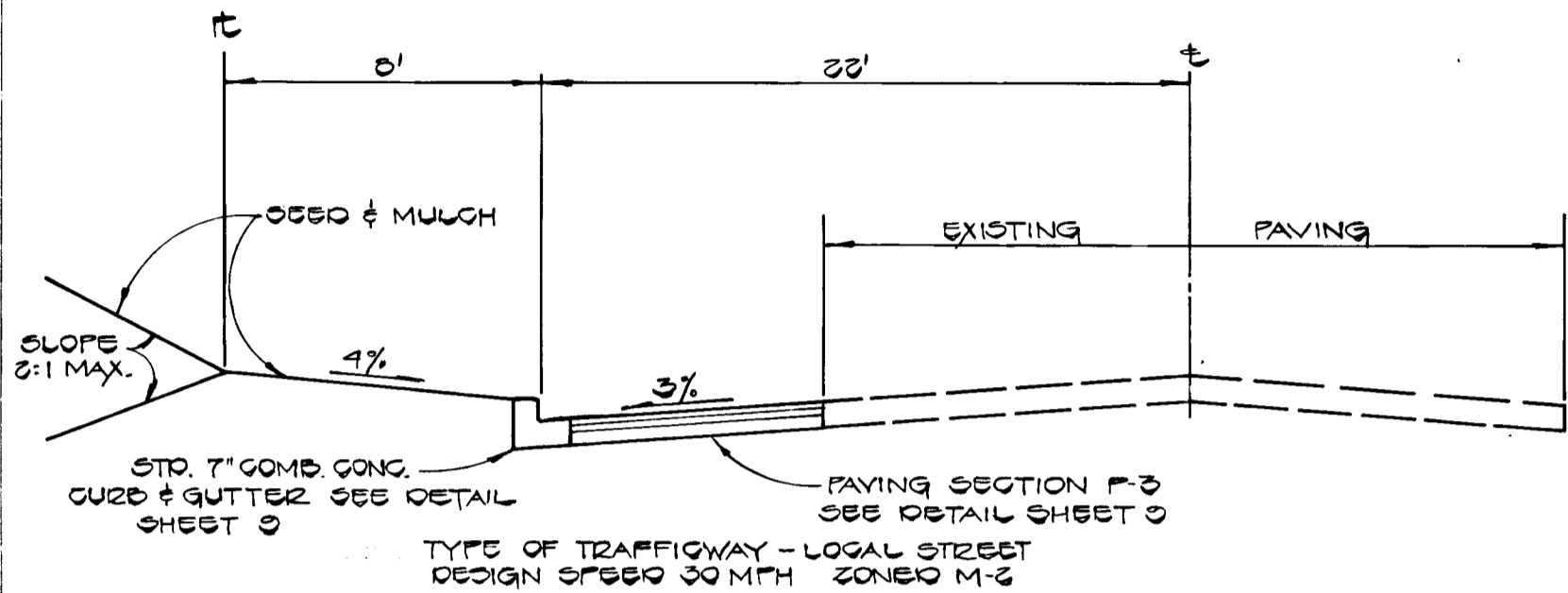
OWNER AND DEVELOPER  
 COLUMBIA INDUSTRIAL DEVELOPMENT CORPORATION  
 10275 LITTLE PATUXENT PARKWAY  
 COLUMBIA, MARYLAND 21044

SCALE AS SHOWN DATE 3/26/84 DWG. NO. 3 OF 10  
 DES. C. GROVO DRN A. BOGDAN CHK. R. B. CARTER

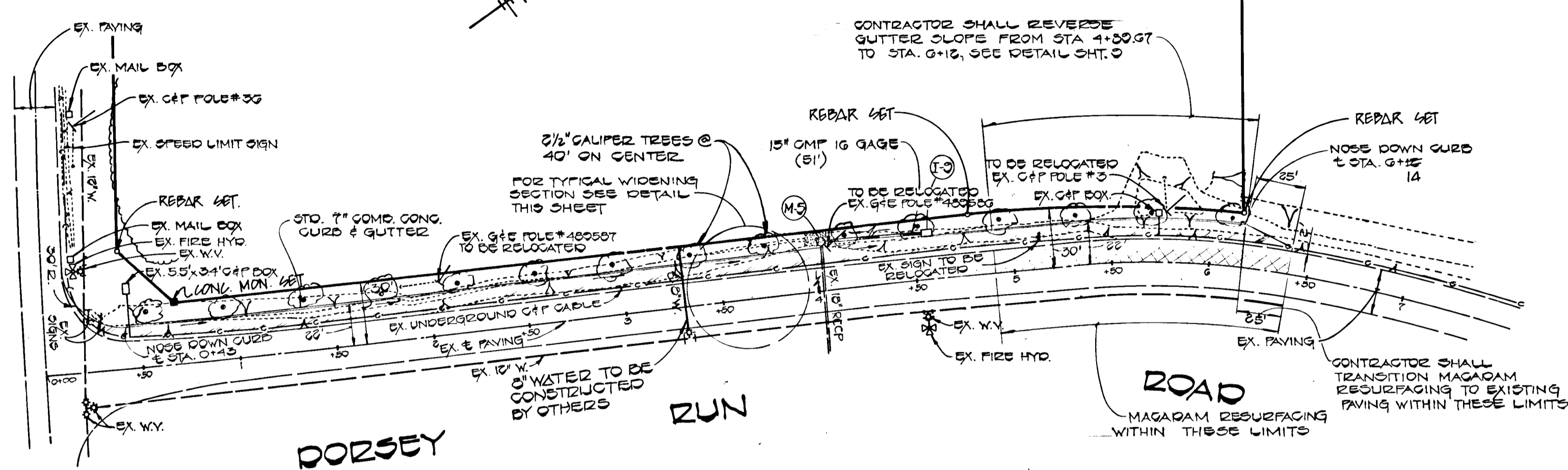
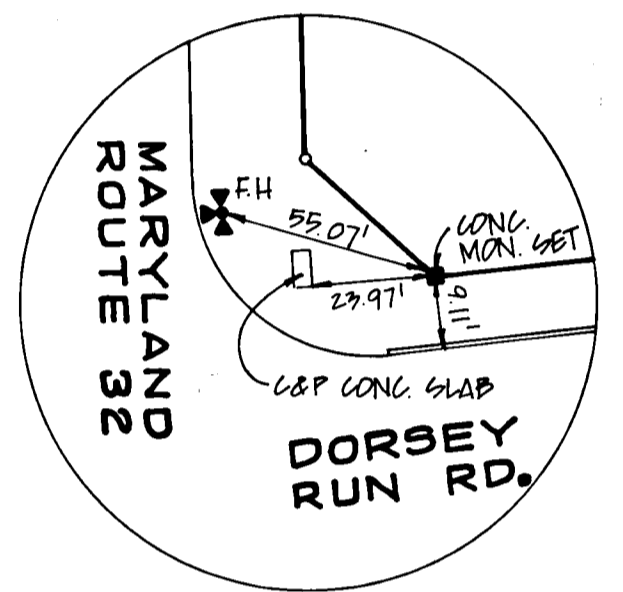
FISHER, COLLINS AND CARTER, INC.  
 CIVIL ENGINEERS AND LAND SURVEYORS  
 8388 COURT AVE. ELLICOTT CITY, MARYLAND 21043



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



**TYPICAL WIDENING SECTION ALONG DORSEY RUN ROAD**  
NO SCALE



**PLAN**  
SCALE: 1" = 50'

APPROVED  
DEPARTMENT OF PUBLIC WORKS  
*[Signature]* 9-1-84  
OFFICE OF PLANNING AND ZONING  
*[Signature]* 9-1-84  
DATE



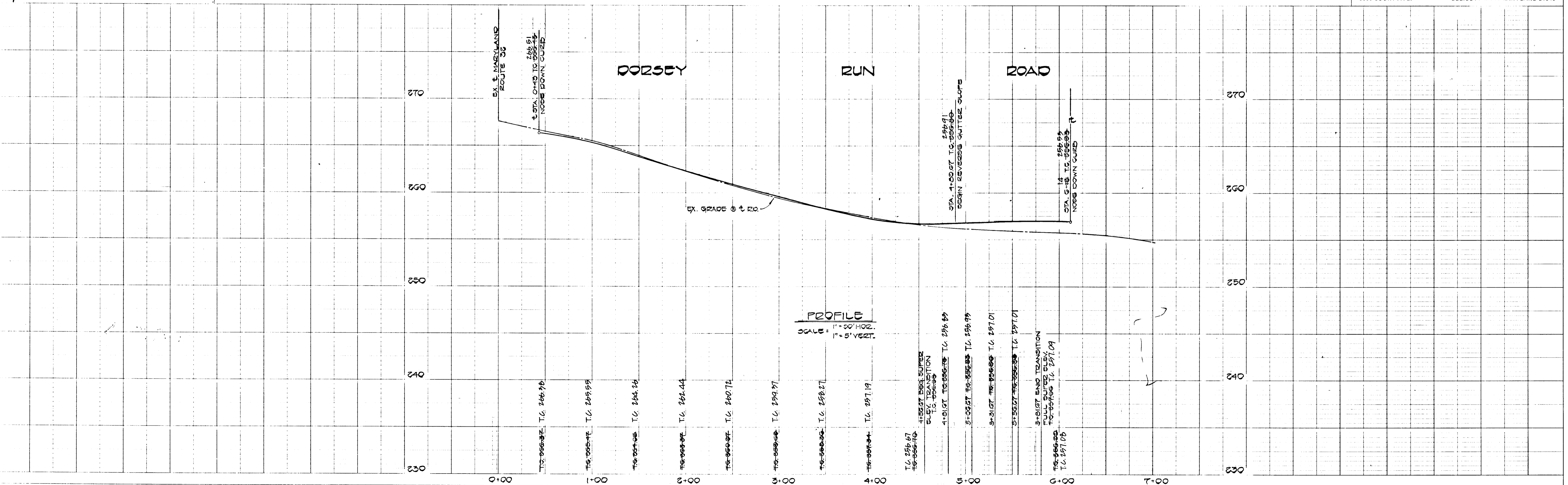
**CORRIDOR NORTH**  
6TH ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

**DORSEY RUN ROAD**  
PLAN AND PROFILE

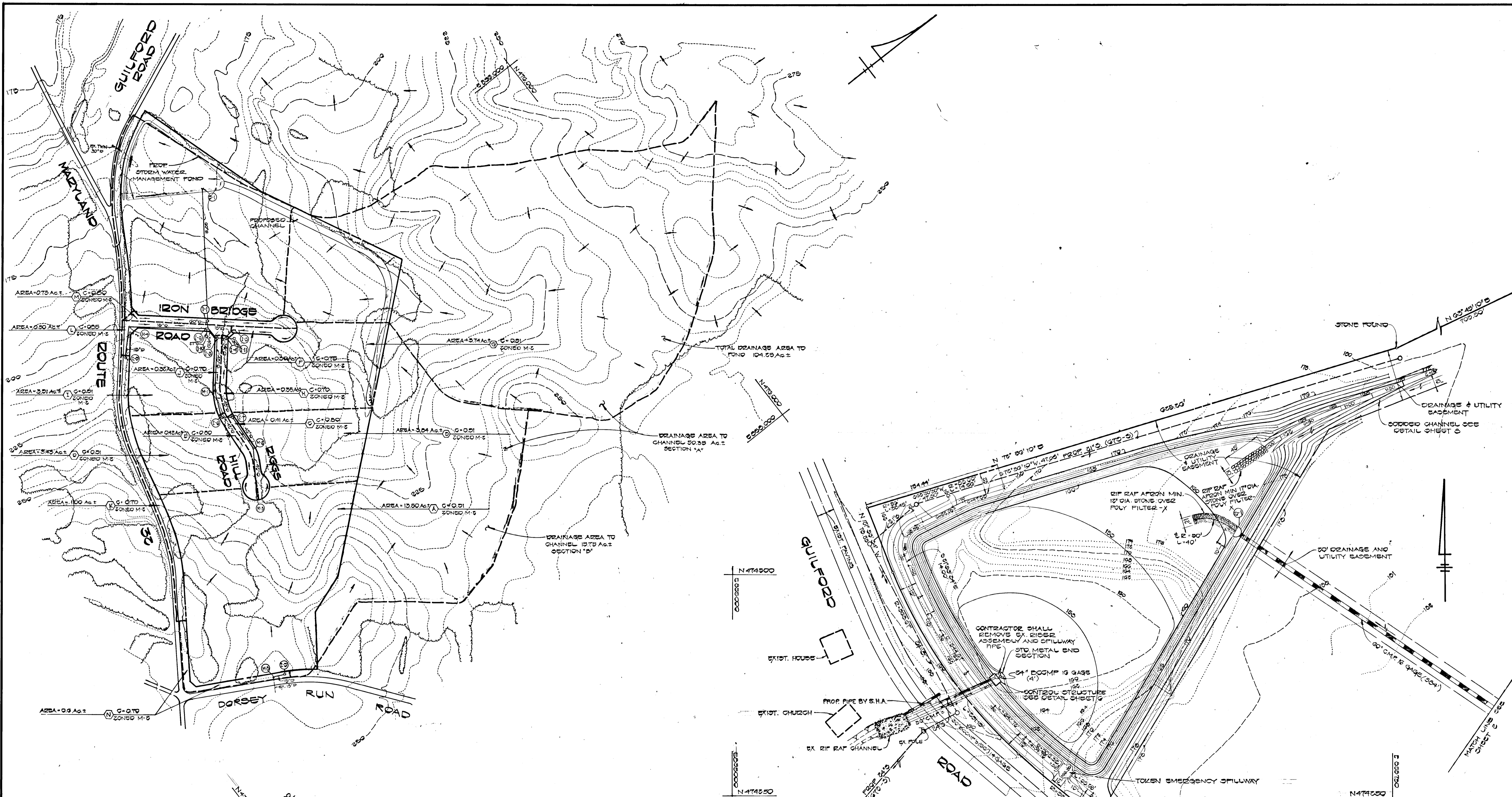
OWNER AND DEVELOPER  
COLUMBIA INDUSTRIAL DEVELOPMENT CORPORATION  
10275 LITTLE PATUXENT PARKWAY  
COLUMBIA, MARYLAND 21044

SCALE AS SHOWN	DATE 3/26/84	DWG. NO. 4 OF 10
DES. C. CROVO	DRN. A. BOGDAN	CHK. R. B. CARTER

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



#1093



APPROVED:  
DEPARTMENT OF PUBLIC WORKS

*William E. Piller*  
CHIEF, BUREAU OF ENGINEERING

9-7-84  
DATE *April 96 89*

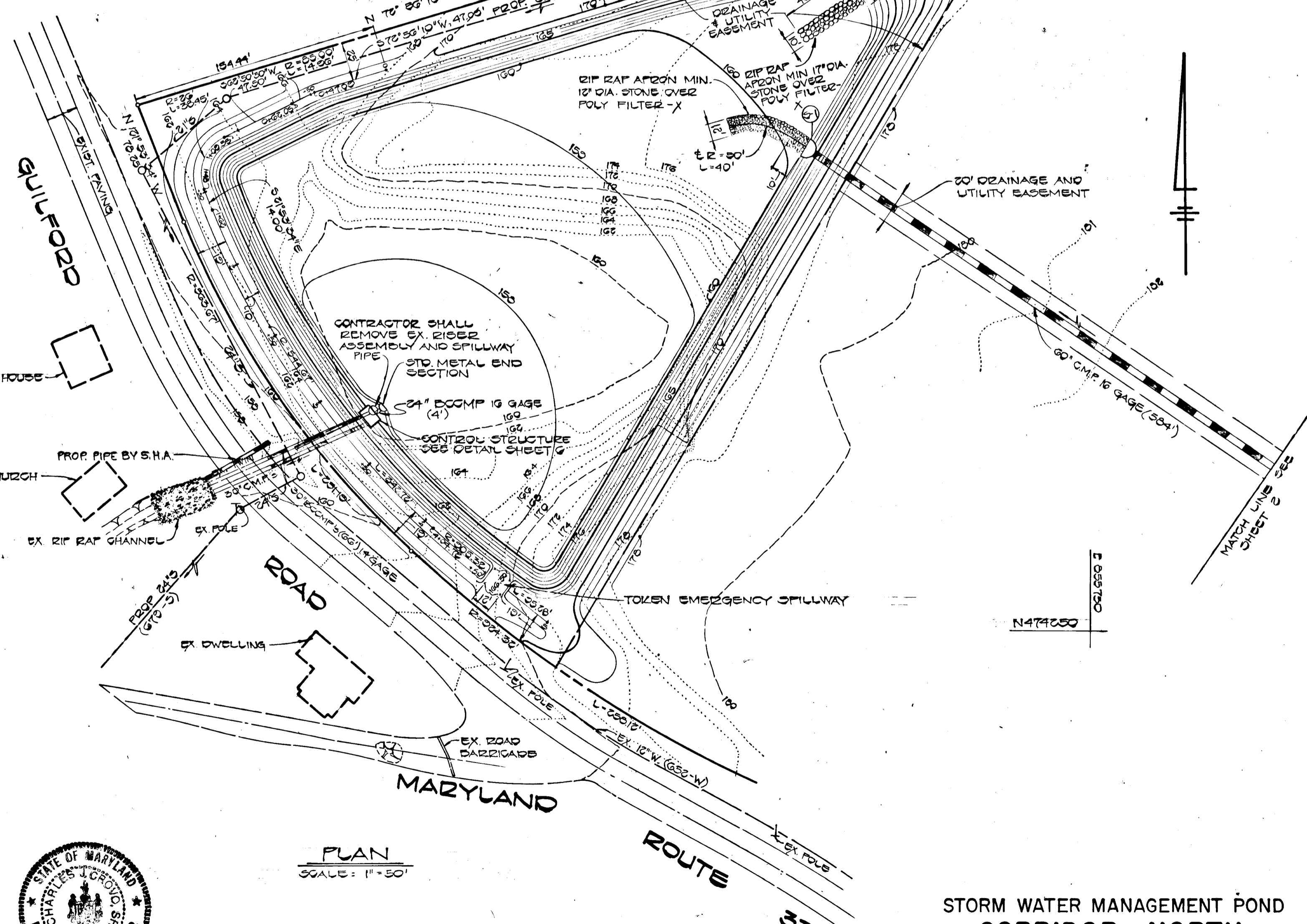
APPROVED:  
OFFICE OF PLANNING AND ZONING

*Robert W. ...*  
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION

9-11-84  
DATE

FISHER, COLLINS AND CARTER, INC.  
CIVIL ENGINEERS AND LAND SURVEYORS  
8388 COURT AVENUE  
ELLICOTT CITY, MARYLAND 21043  
TELEPHONE: (301) 461-2888

DRAINAGE AREA MAP  
SCALE: 1" = 200'



PLAN  
SCALE: 1" = 50'

STATE OF MARYLAND  
CHARLES J. CROVO, SR.  
PROFESSIONAL ENGINEER  
No. 13204  
EXPIRES 12/31/85

Charles J. Crovo, Sr.  
CHARLES J. CROVO, SR.  
DATE 3/23/84

OWNER & DEVELOPER  
COLUMBIA INDUSTRIAL DEVELOPMENT CORPORATION  
10275 LITTLE PATUXENT PARKWAY  
COLUMBIA, MARYLAND 21044

STORM WATER MANAGEMENT POND  
CORRIDOR NORTH

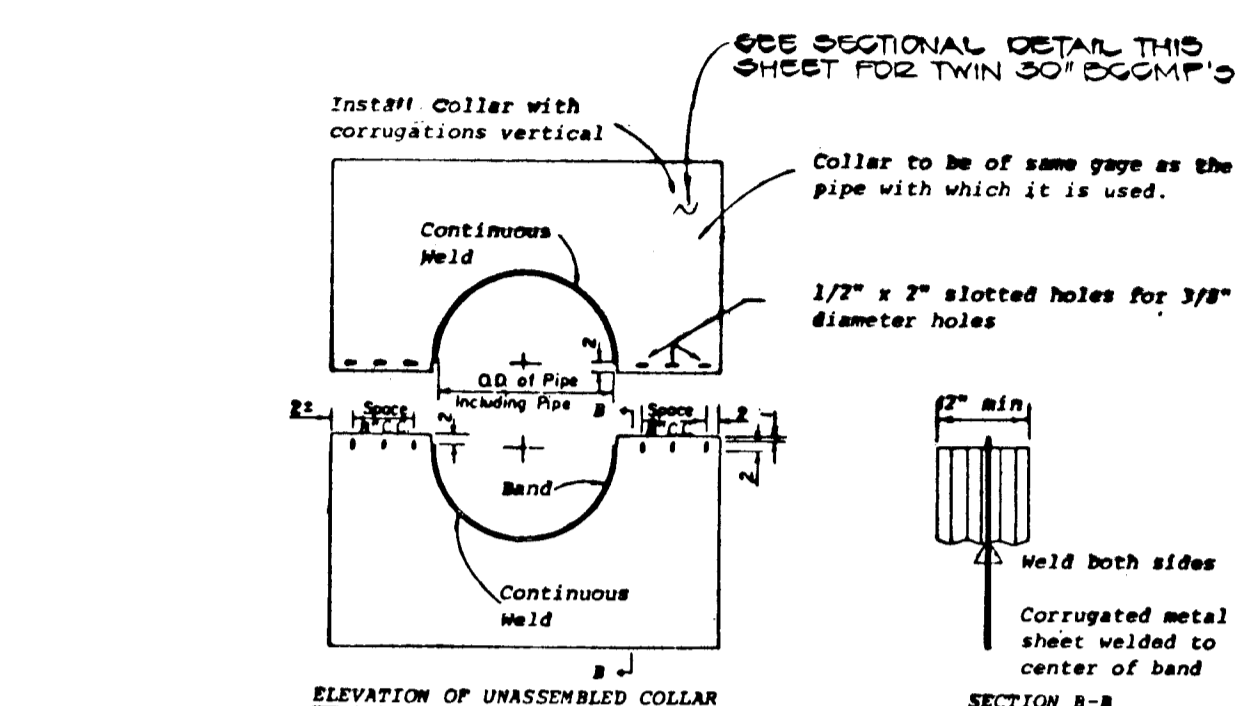
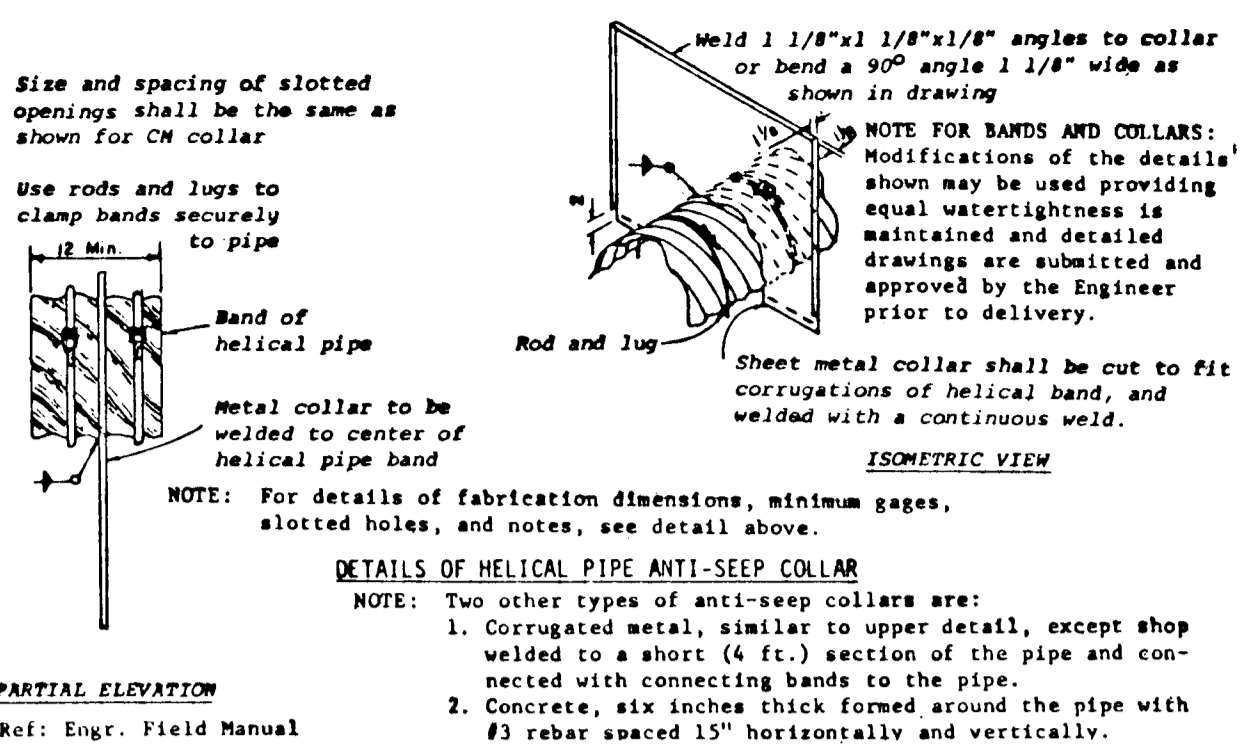
6TH ELECTION DISTRICT HOWARD COUNTY, MD.  
SCALE: AS SHOWN MARCH 26, 1984  
SHEET 5 OF 10

#1093

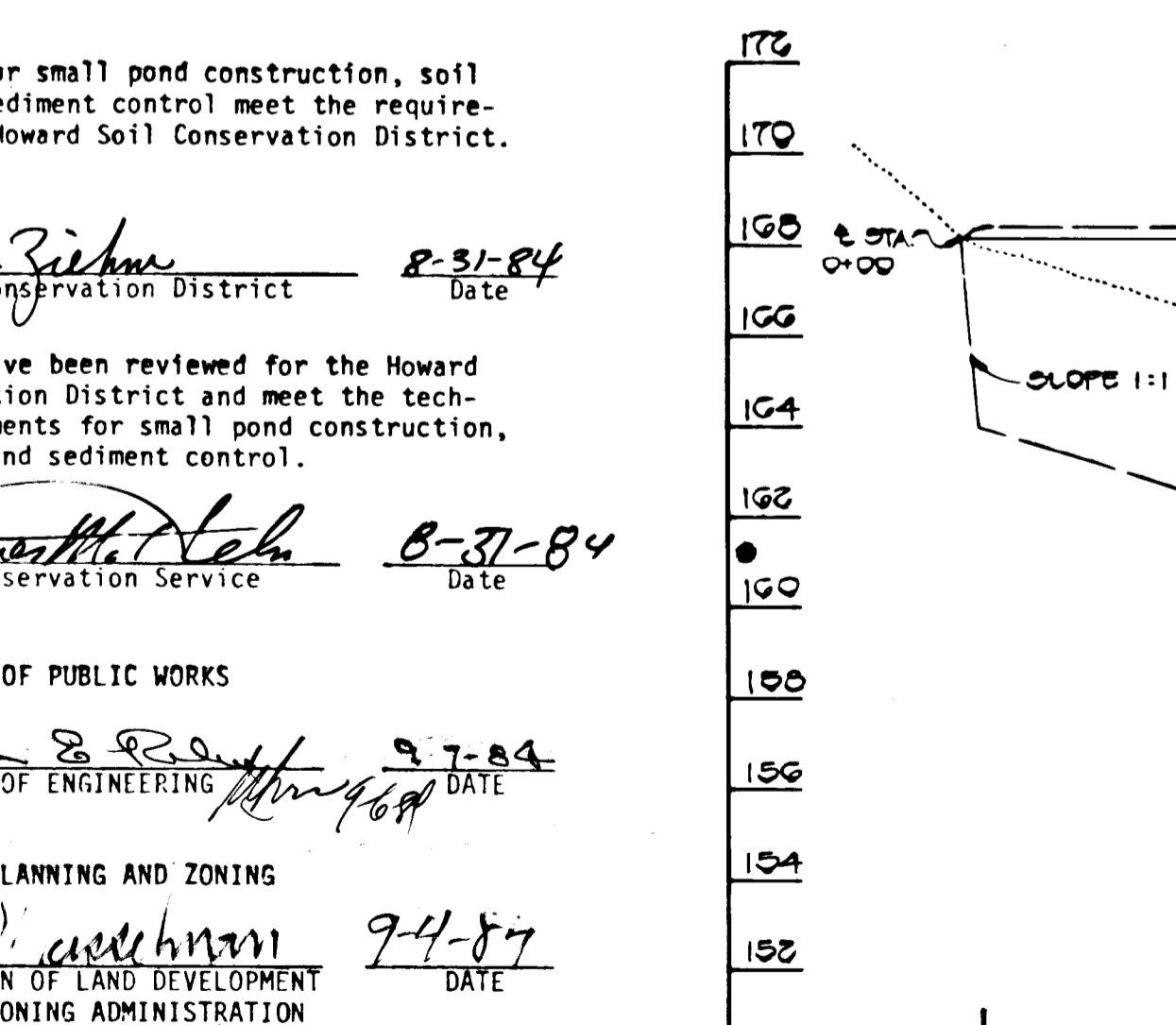
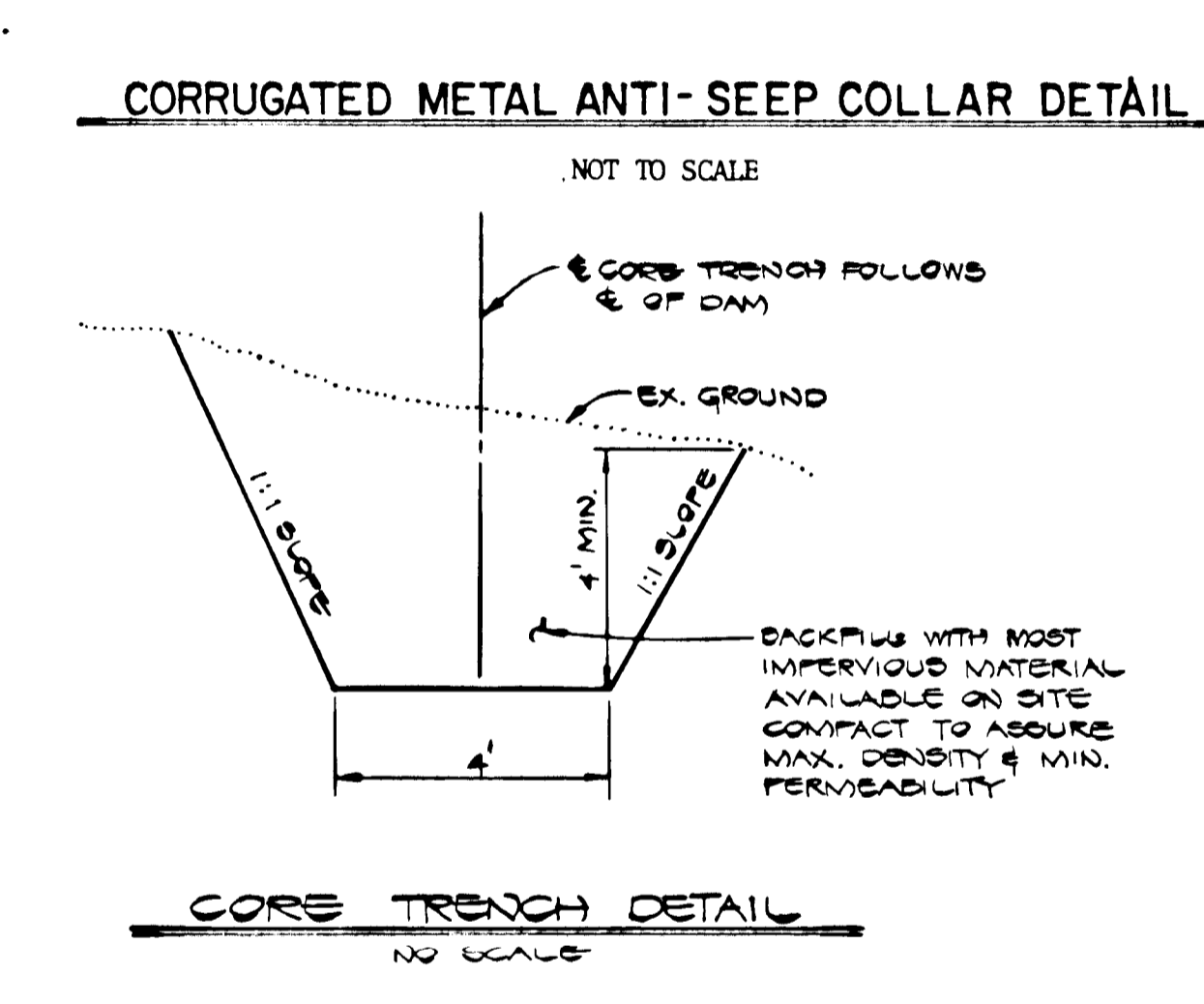
**I. SITE PREPARATION**  
 Areas under the embankment and structural works shall be cleared, grubbed and the topsoil stripped to remove all trees, vegetation, roots or other objectionable material. To facilitate clean out and restoration, it is recommended that the permanent pool area be cleared of all 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 5 percent above the design elevation (including freeboard) unless otherwise shown on the plans.

**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.



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



**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."

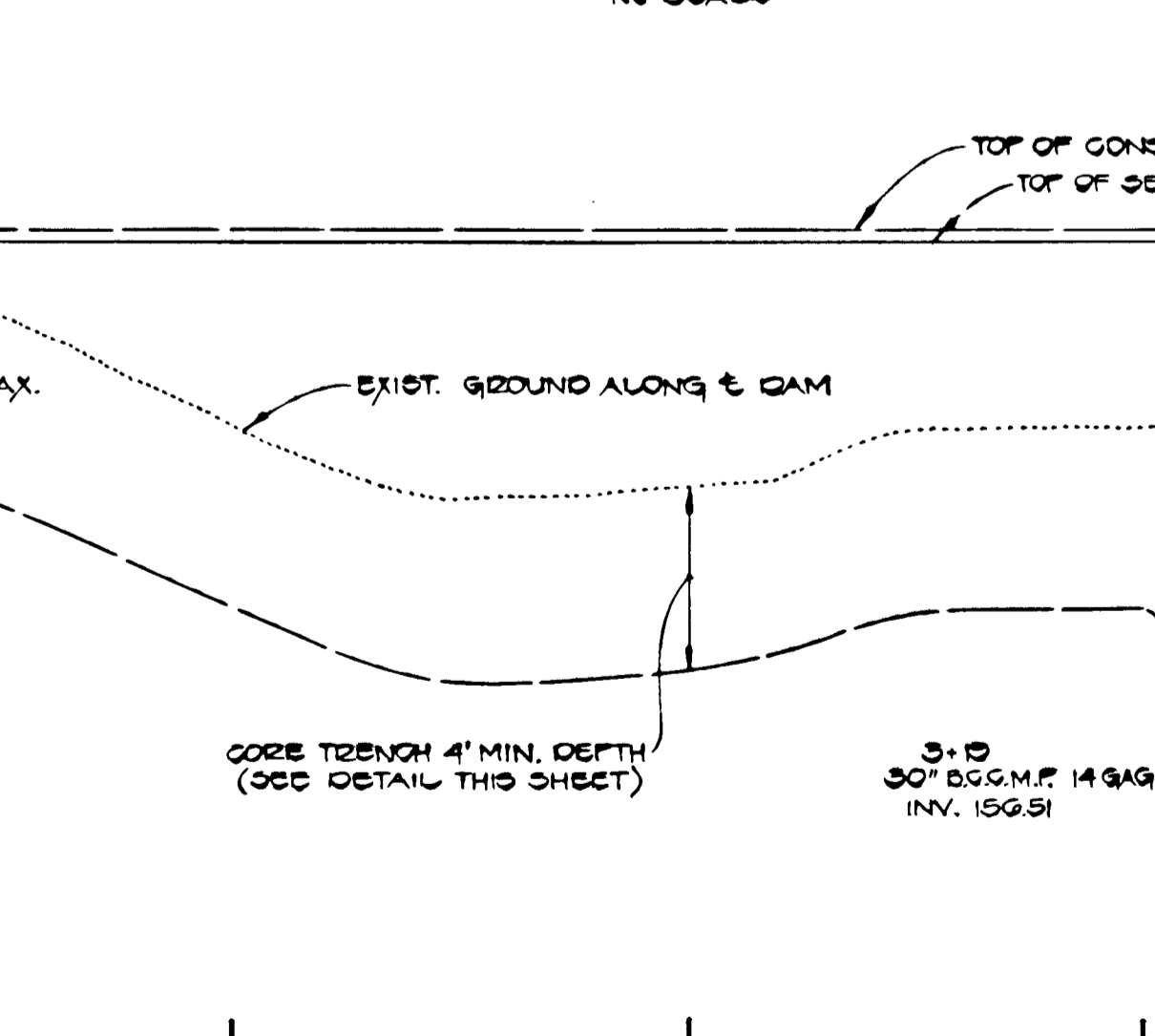
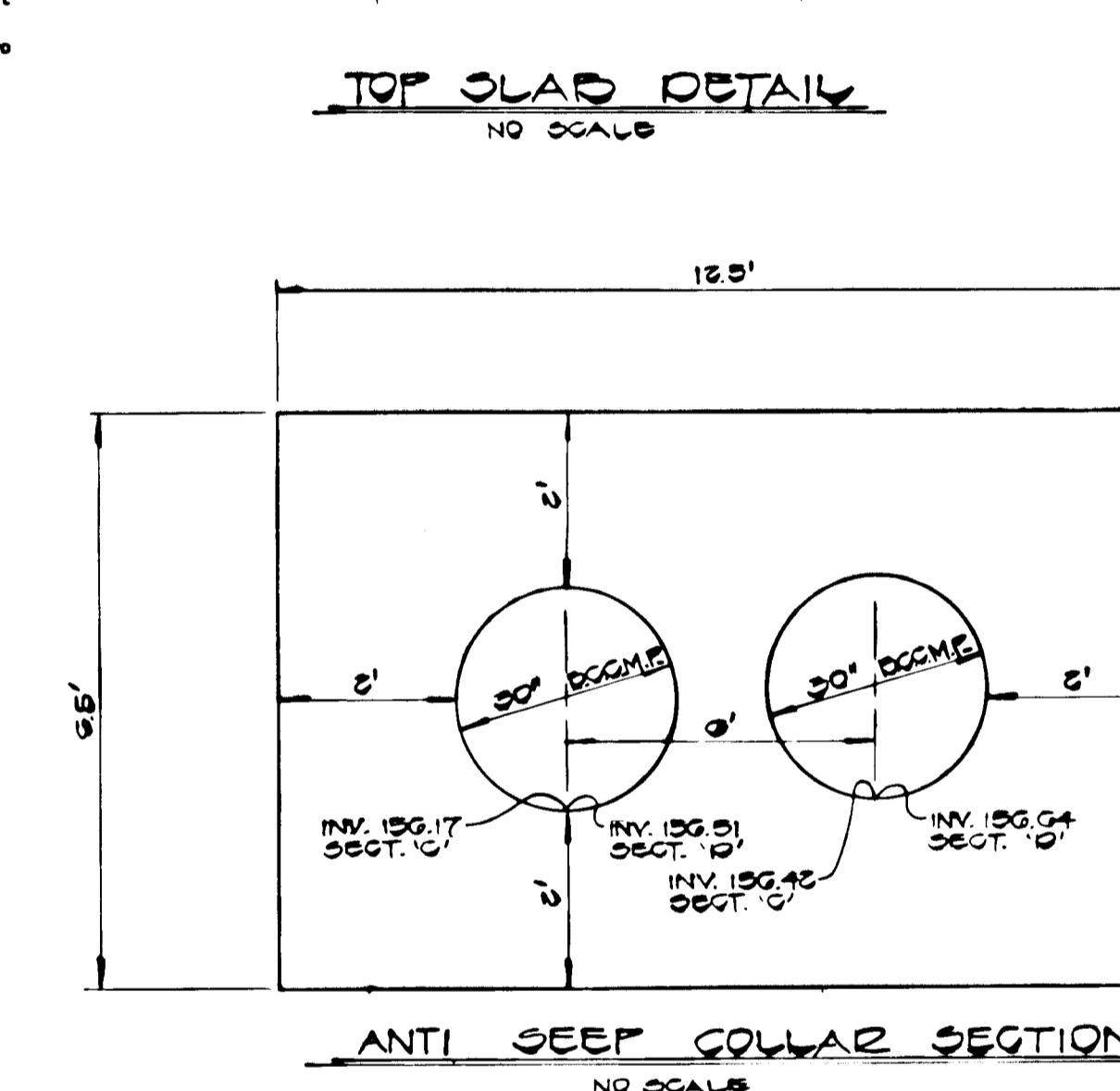
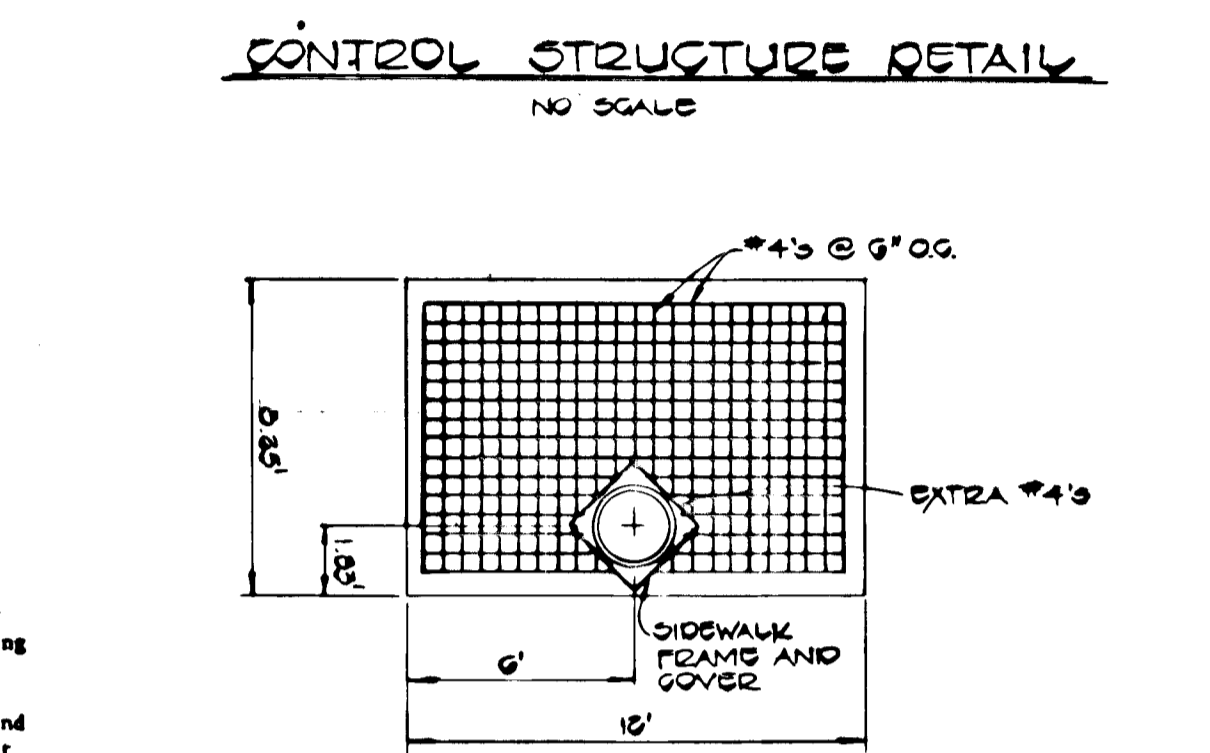
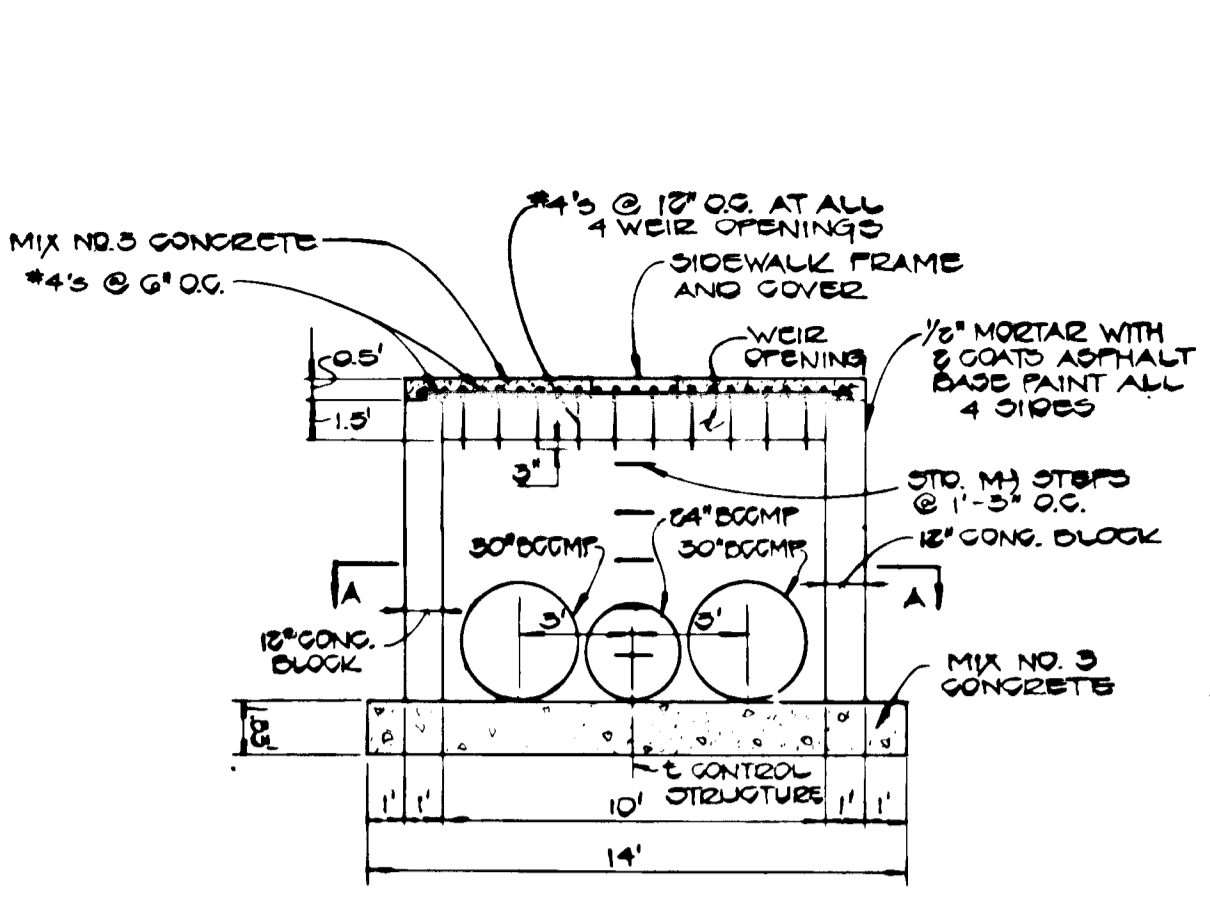
*Robert W. Zick*  
 HOWARD SOIL CONSERVATION DISTRICT  
 DATE: 2-31-84

**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."

*Charles J. Grovo*  
 DATE: 3/21/84

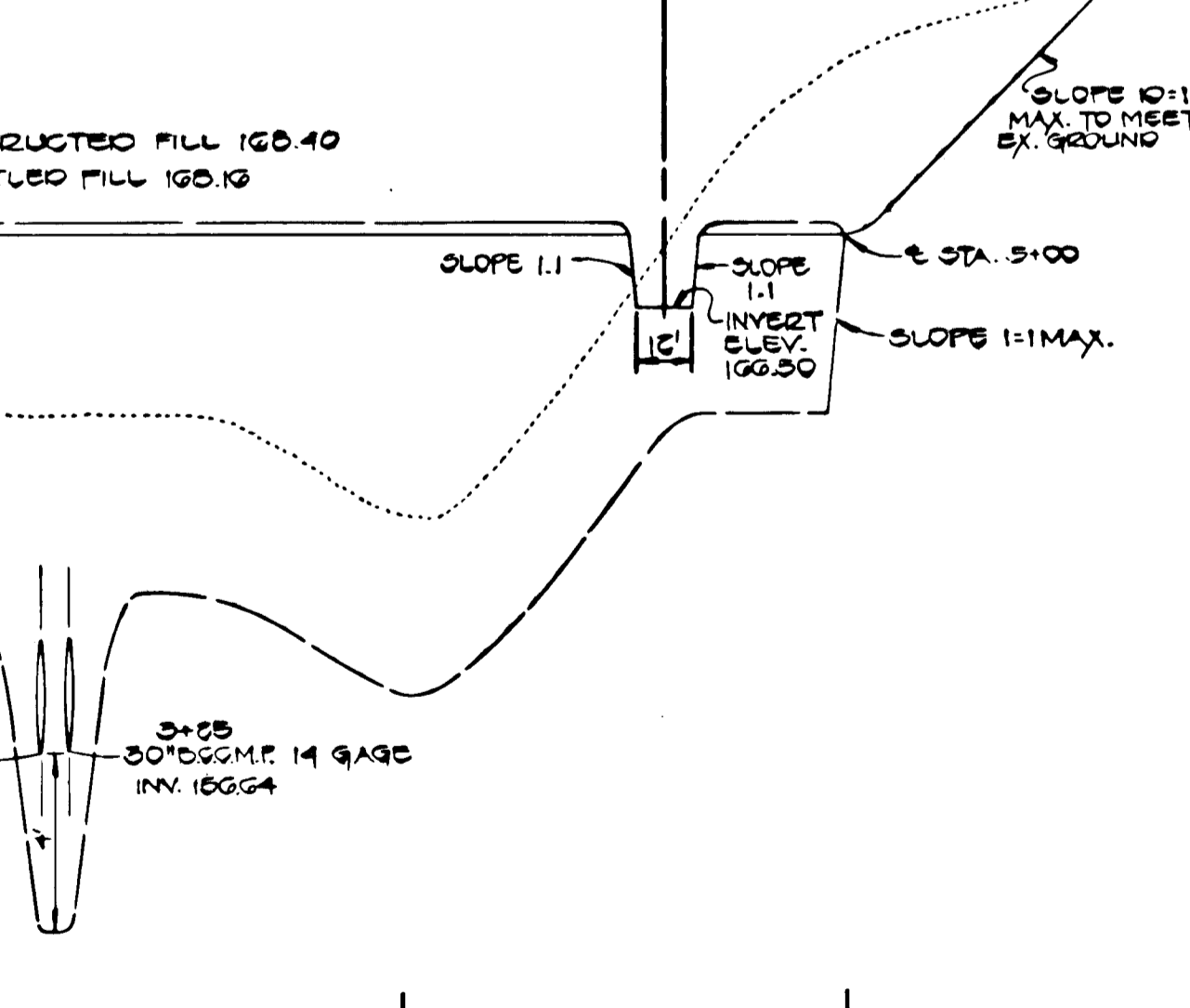
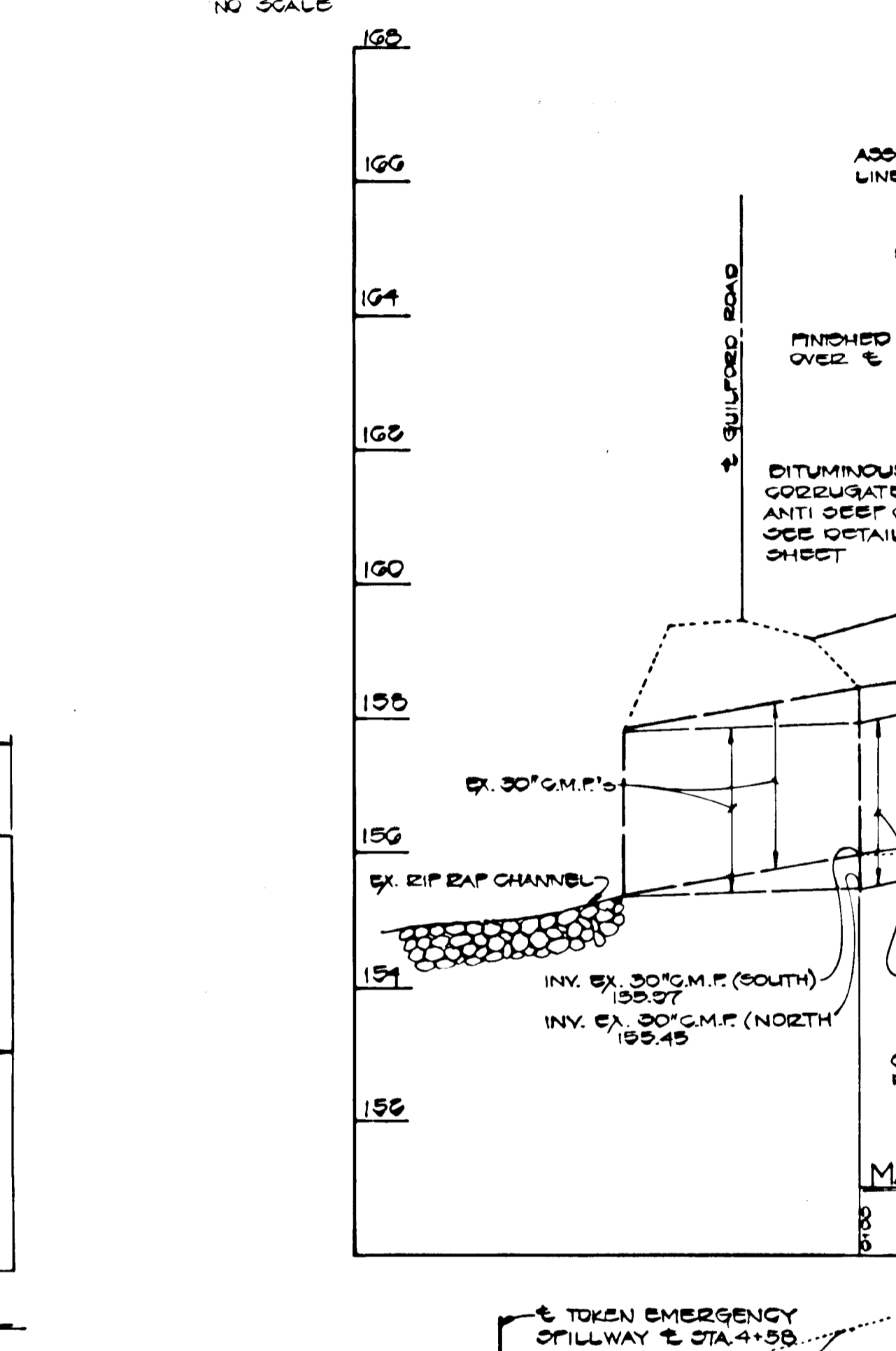
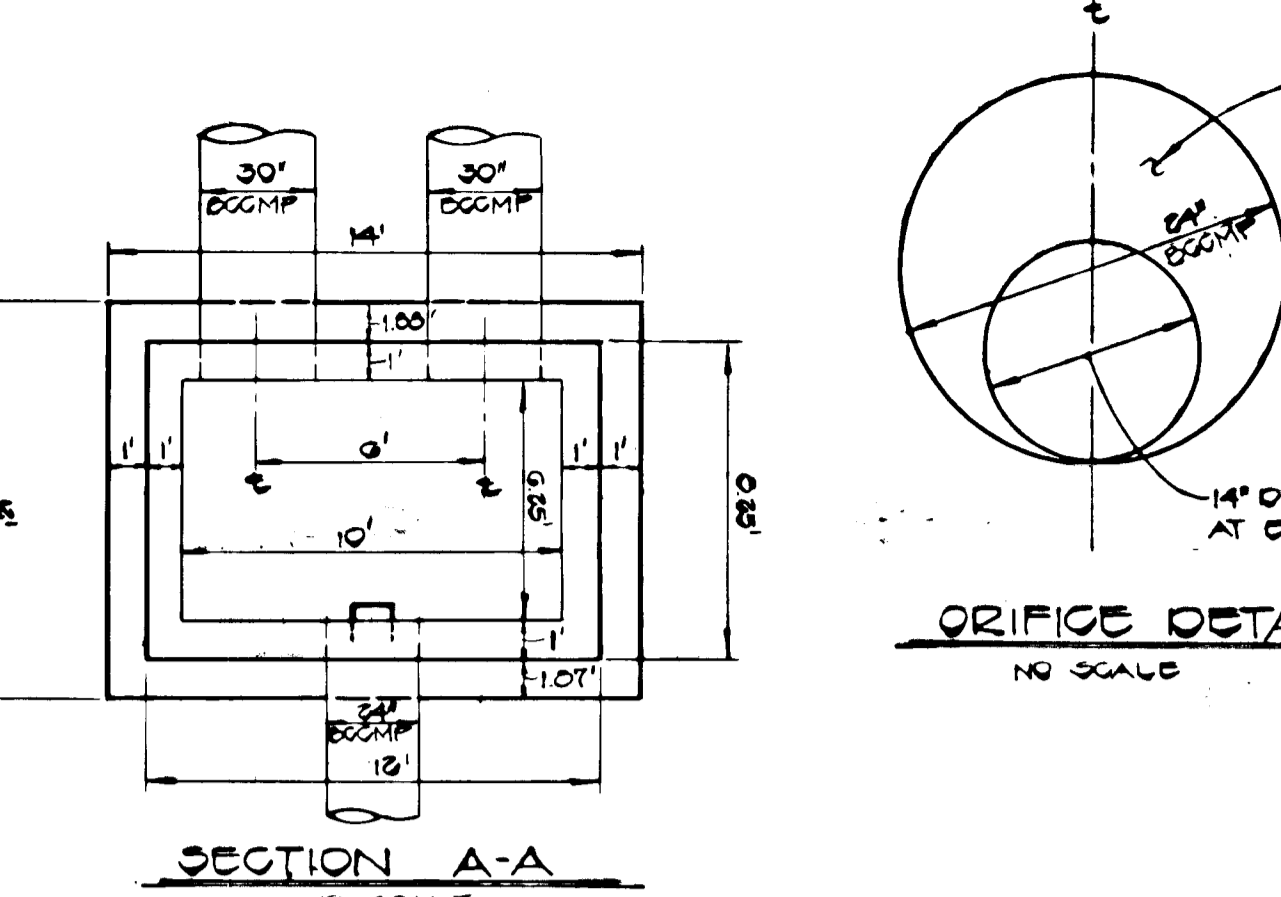
APPROVED: *William E. R... 2-7-84*  
 CHIEF, BUREAU OF ENGINEERING

APPROVED: *John W. ... 2-4-84*  
 CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION



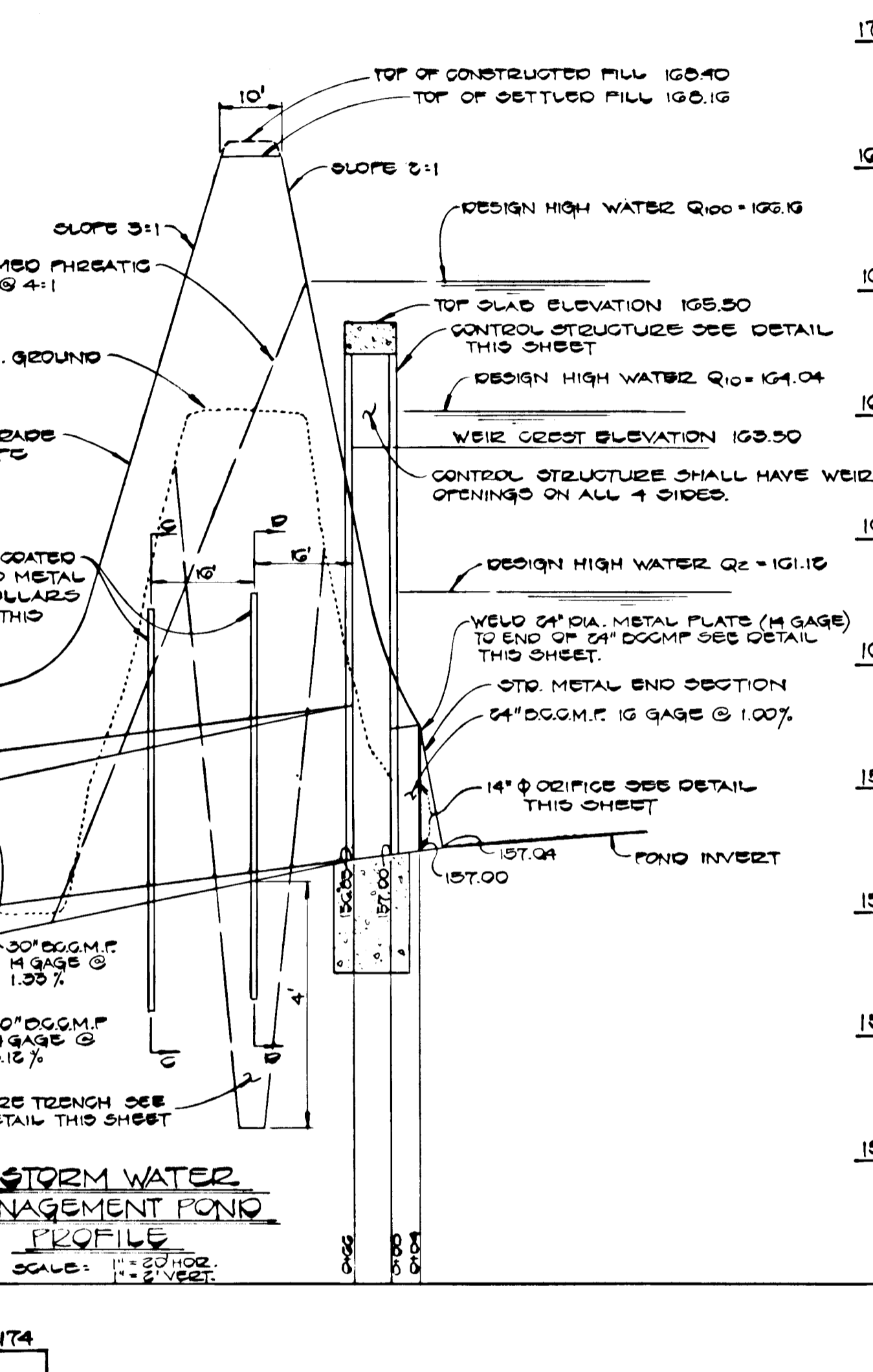
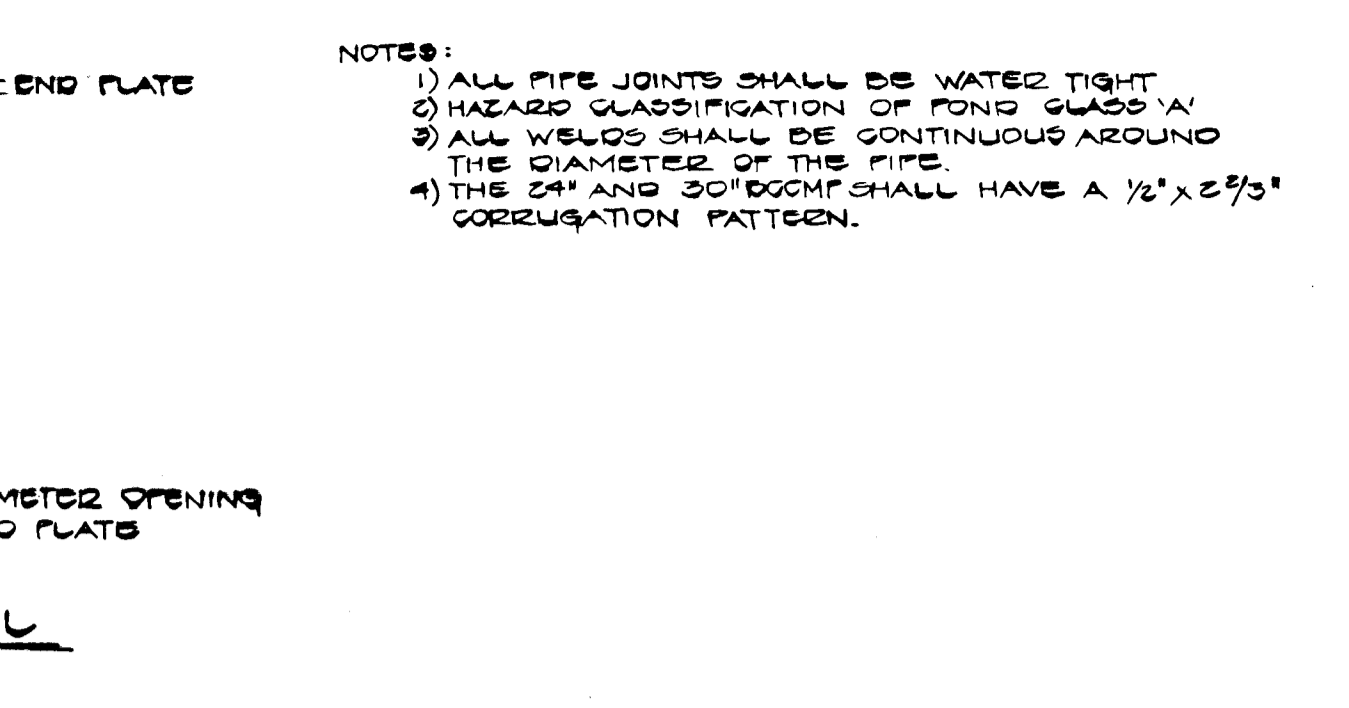
**PROFILE ALONG E DAM**  
 SCALE: 1"=40' HORIZ.  
 1"=4' VERT.

*Charles J. Grovo*  
 DATE: 3/21/84



**PROFILE ALONG E DAM**  
 SCALE: 1"=40' HORIZ.  
 1"=4' VERT.

**OWNER & DEVELOPER**  
 COLUMBIA INDUSTRIAL DEVELOPMENT CORPORATION  
 10275 LITTLE PATUXENT PARKWAY  
 COLUMBIA, MARYLAND 21044



**PROFILE ALONG E DAM**  
 SCALE: 1"=40' HORIZ.  
 1"=4' VERT.

**OWNER & DEVELOPER**  
 COLUMBIA INDUSTRIAL DEVELOPMENT CORPORATION  
 10275 LITTLE PATUXENT PARKWAY  
 COLUMBIA, MARYLAND 21044

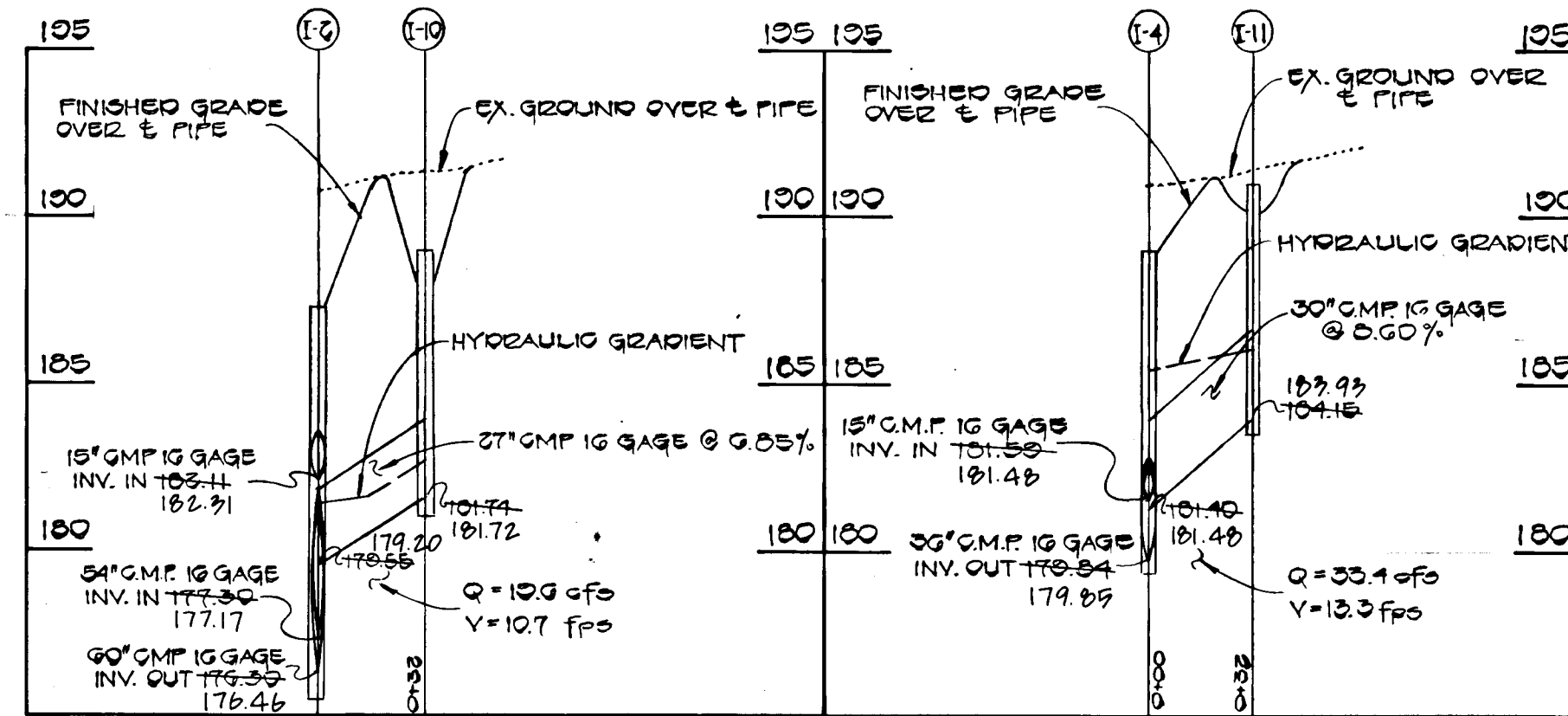
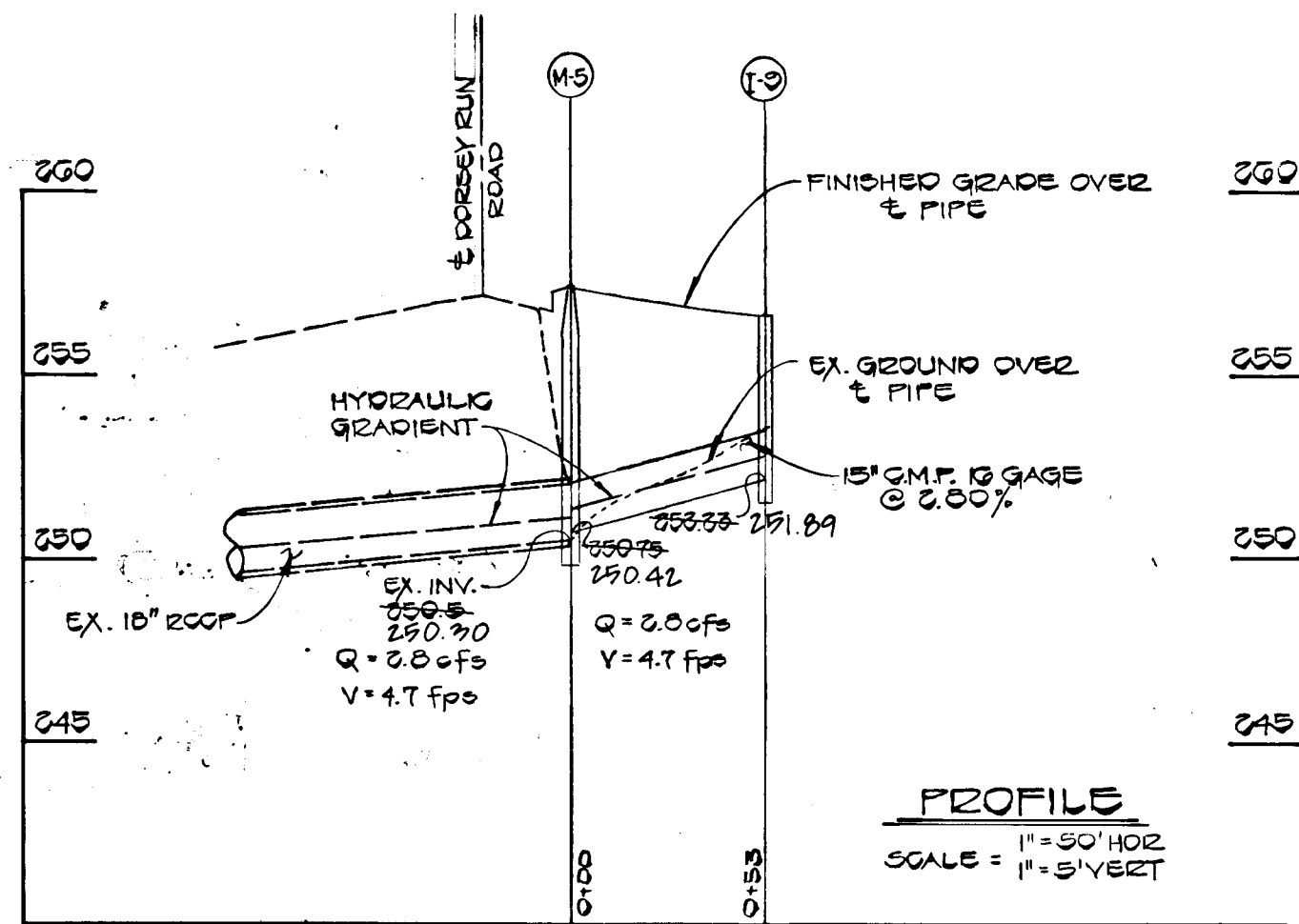
**STORM WATER MANAGEMENT POND PROFILES AND DETAILS**  
**CORRIDOR NORTH**  
 6TH ELECTION DISTRICT HOWARD COUNTY, MD.  
 SCALE: AS SHOWN MARCH 26, 1984  
 SHEET 6 OF 10

FISHER, COLLINS AND CARTER, INC.  
 CIVIL ENGINEERS & LAND SURVEYORS  
 8088 COURT AVENUE  
 SUICOTT CITY, MARYLAND 21043  
 TELEPHONE: (301) 461-8855



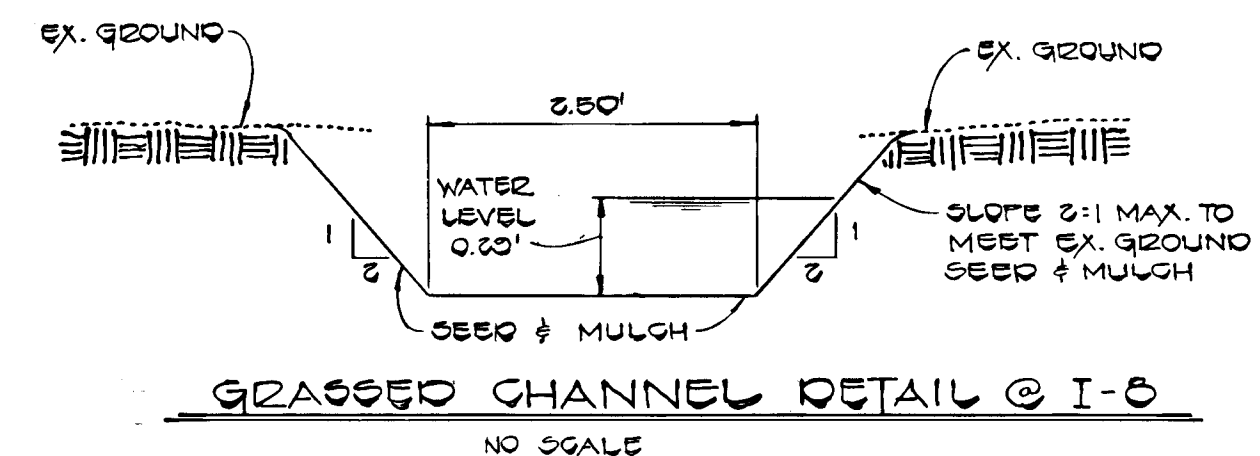
STRUCTURE SCHEDULE					
NO.	TYPE	INV. IN	INV. OUT	STATION	REMARKS
I-1	A-10	175.66 179.47	175.09 178.09	0+50 IRON BRIDGE ROAD	174.21 187.41
I-2	A-10	175.66 179.22	175.09 178.46	0+50 IRON BRIDGE ROAD	187.24 187.24
I-3	A-10	175.66 179.07	175.09 178.63	0+57.50 RIGGS HILL ROAD	188.88 188.88
I-4	A-10	175.66 181.46	175.09 179.89	0+57.50 RIGGS HILL ROAD	189.27 189.27
I-5	A-5	—	103.75 189.59	0+15 IRON BRIDGE ROAD	189.46 189.46
I-6	A-10	175.66 181.26	175.09 185.92	4+00 RIGGS HILL ROAD	197.44 197.44
I-7	A-10	175.66 190.61	175.09 190.11	4+30 RIGGS HILL ROAD	197.99 197.99
I-8	D*	—	200.66 201.01	1+00 ANNAPOLIS JUNCTION ROAD	204.40 204.40
I-9	A-5	—	225.66 221.89	4+55.07 WOODSLEY RUN ROAD	226.66 226.67
M-1	STD. MANHOLE	105.66 185.67	105.19 185.00	0+50 RIGGS HILL ROAD	199.57 199.57
M-2	STD. MANHOLE	105.66 195.32	105.04 195.16	0+56 RIGGS HILL ROAD	209.22 209.22
M-3	STD. MANHOLE	105.66 202.70	105.04 202.70	1+40.35 RIGGS HILL ROAD UNLINED PROFILE	219.79 219.79
M-4	SHALLOW MANHOLE	105.66 198.76	105.04 198.22	0+57 IRON BRIDGE ROAD	192.09 192.09
S-1	STD. METAL END SECTION	105.66 180.94	105.04 180.94	—	185.94 185.94
M-5	STD. MANHOLE	200.75 290.42	200.66 290.90	4+03.7 WOODSLEY RUN ROAD	287.40 287.90
I-10	D*	—	181.72 181.72	—	185.72 185.72
I-11	D*	—	184.15 183.99	—	191.02 191.02

\* ONE OPENING TO BE PROVIDED ON EAST END OF INLET I-8  
 \*\* INLETS I-10 AND I-11 SHALL HAVE OPENINGS ON ALL 4 SIDES



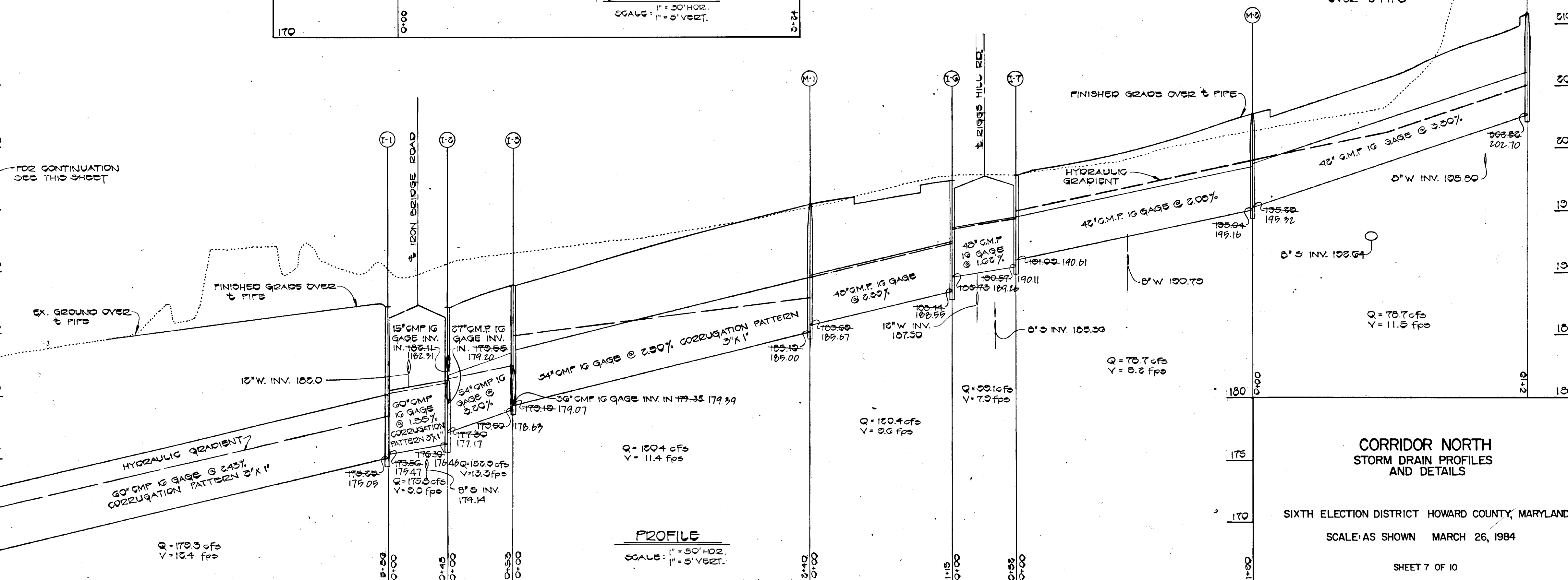
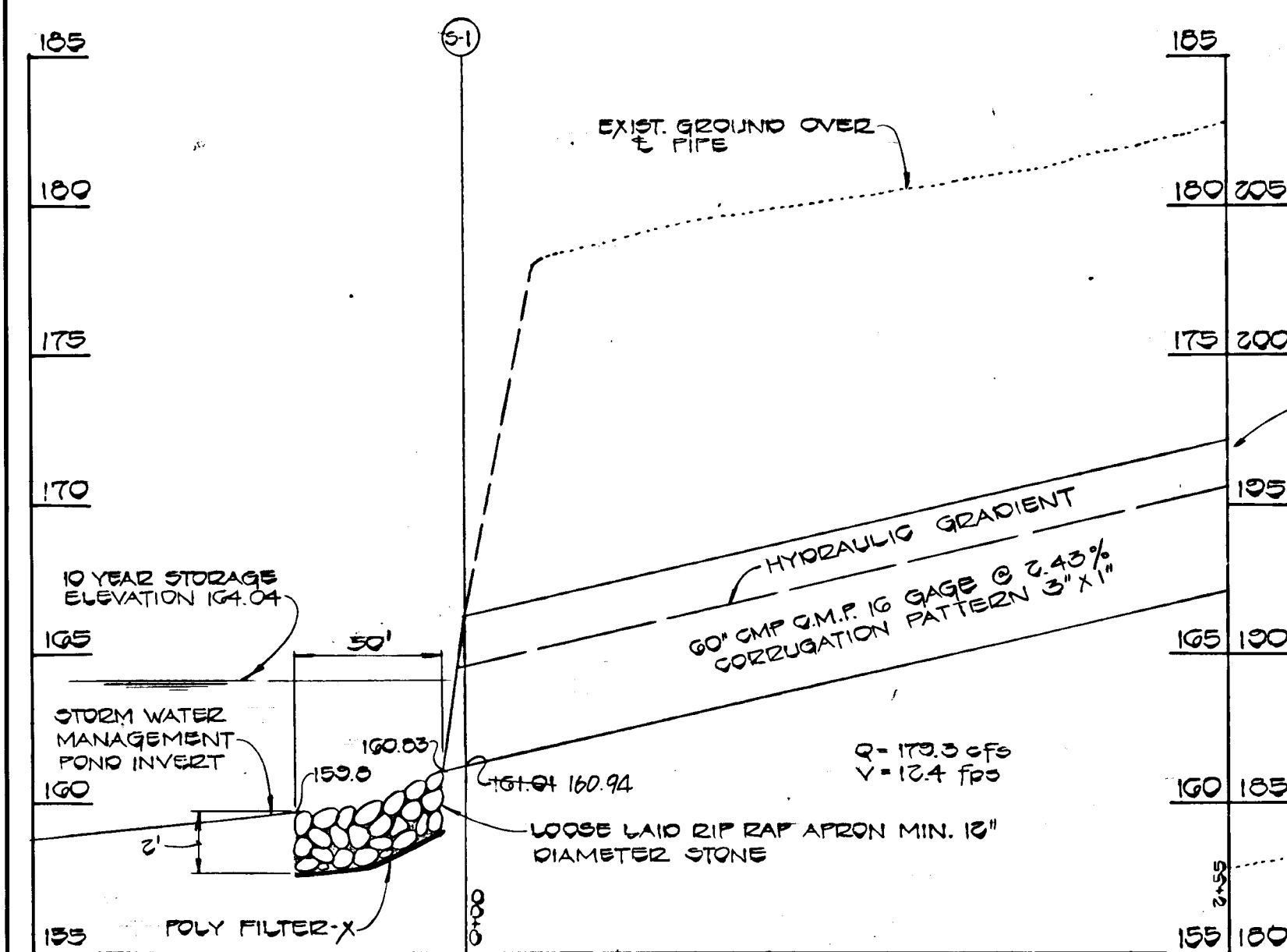
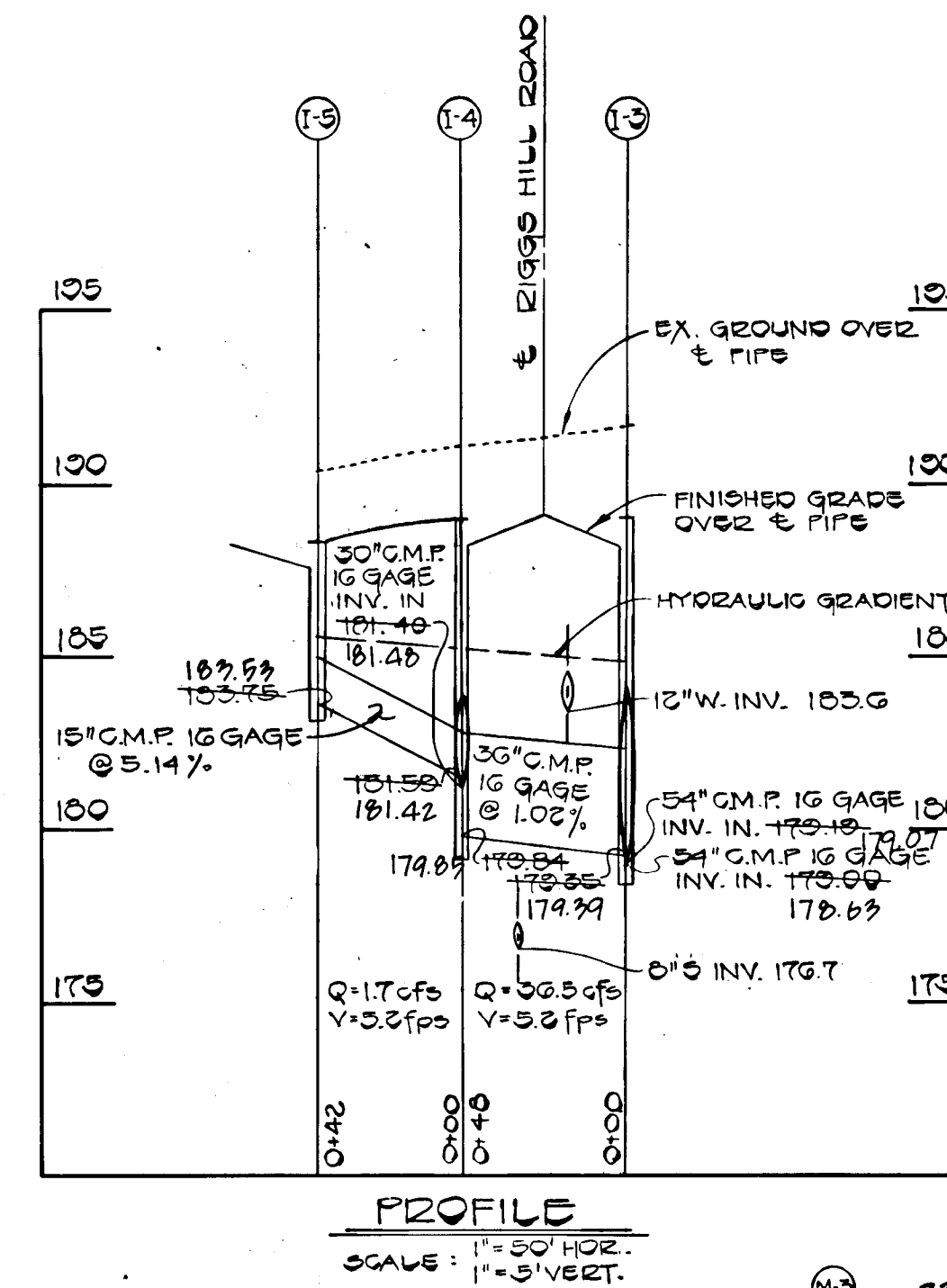
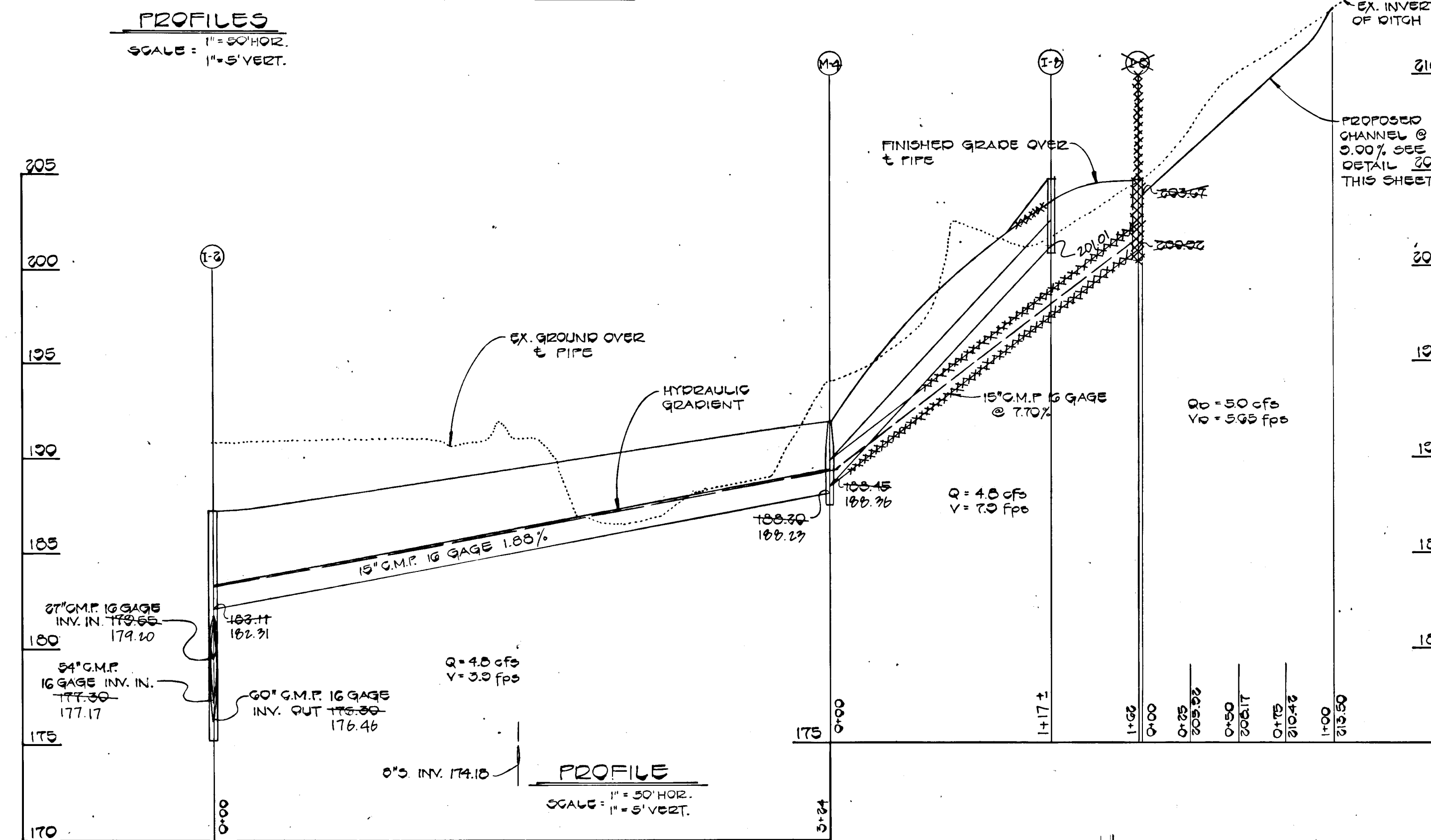
**CHANNEL DESIGN DATA @ I-8**

A = 0.85'      S = 0.00%  
 P = 3.00'      S% = 0.0000  
 E = 0.3345      n = 0.03  
 R% = 0.3700  
 V = 6.03 x 0.3700 x 0.3000 = 5.95 fps  
 Q = 0.85' x 5.95 fps = 5.0 cfs



APPROVED: DEPARTMENT OF PUBLIC WORKS  
 G. C. [Signature]      9-7-84  
 CHIEF, BUREAU OF ENGINEERING

APPROVED: OFFICE OF PLANNING AND ZONING  
 [Signature]      9-4-81  
 CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION



STATE OF MARYLAND  
 CHARLES F. CROVO, SR.  
 PROFESSIONAL ENGINEER  
 LICENSE NO. 13204  
 3/27/84

NOTE: ALL STORM DRAIN PIPES SHALL HAVE 2 1/2" x 1/2" CORRUGATION PATTERN UNLESS OTHERWISE SPECIFIED

FOR CONTINUATION SEE THIS SHEET

DATE	REVISION	BY
10/30	REVISED ELEV. OF I-3, I-4 R.A.I.	

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

**CORRIDOR NORTH STORM DRAIN PROFILES AND DETAILS**

SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
 SCALE: AS SHOWN      MARCH 26, 1984

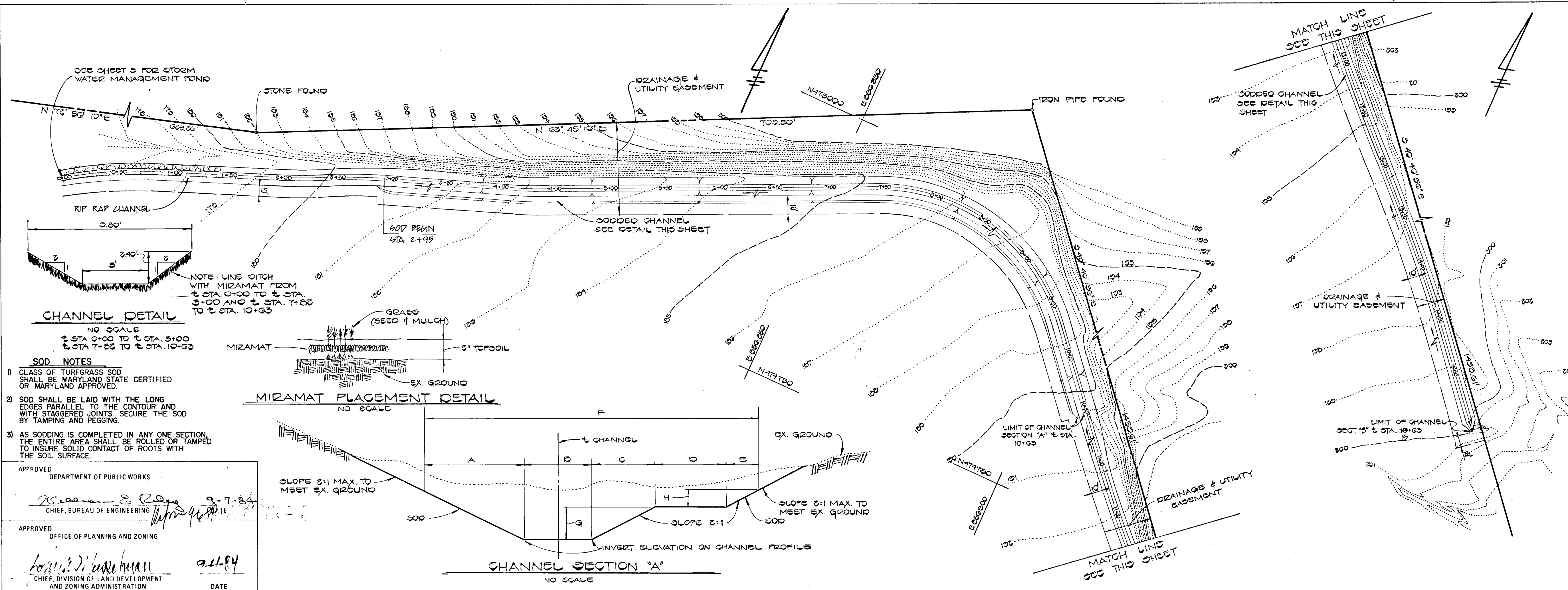
DATE: \_\_\_\_\_  
 BY: \_\_\_\_\_  
 SURVEYED: \_\_\_\_\_  
 PLOTTED: \_\_\_\_\_  
 CHECKED: \_\_\_\_\_  
 NO. \_\_\_\_\_

APPROVED: \_\_\_\_\_  
 DEPARTMENT OF PUBLIC WORKS  
 CHIEF, BUREAU OF ENGINEERING  
 DATE: 3-7-84

APPROVED: \_\_\_\_\_  
 OFFICE OF PLANNING AND ZONING  
 CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION  
 DATE: 3/11/84

DATE: \_\_\_\_\_  
 BY: \_\_\_\_\_  
 SURVEYED: \_\_\_\_\_  
 PLOTTED: \_\_\_\_\_  
 CHECKED: \_\_\_\_\_  
 NO. \_\_\_\_\_

#1073



**CHANNEL DESIGN DATA**  
 STA. 7+57 TO STA. 10+00

A = 40.05'	B = 3.00'
F = 24.20'	D = 3.00'
E = 1.0377'	C = 4.00'
S = 1.00%	Q = 3.00'
S <sub>1/2</sub> = 0.1025	E = 1.50'
	F = 22.76'
	G = 2.40'
	H = 0.75'

V = 1.455  
 $\frac{1.455}{0.03} \times 1.007 \times 0.1005 = 0.75 \text{ fps}$   
 $Q_{100} = 40.05' \times 0.75 \text{ fps} = 30.04 \text{ cfs}$

**CHANNEL DESIGN DATA**  
 STA. 3+00 TO STA. 7+00

A = 47.50'	B = 3.00'
F = 28.66'	D = 3.00'
E = 1.0311'	C = 4.00'
S = 1.00%	Q = 3.00'
S <sub>1/2</sub> = 0.1000	E = 2.20'
n = 0.03	F = 24.00'
	G = 2.40'
	H = 1.10'

V = 1.455  
 $\frac{1.455}{0.03} \times 1.007 \times 0.1000 = 7.47 \text{ fps}$   
 $Q_{100} = 47.50' \times 7.47 \text{ fps} = 353.6 \text{ cfs}$



Charles J. Crovo, Sr. 3/21/84  
 CHARLES J. CROVO, SR. DATE

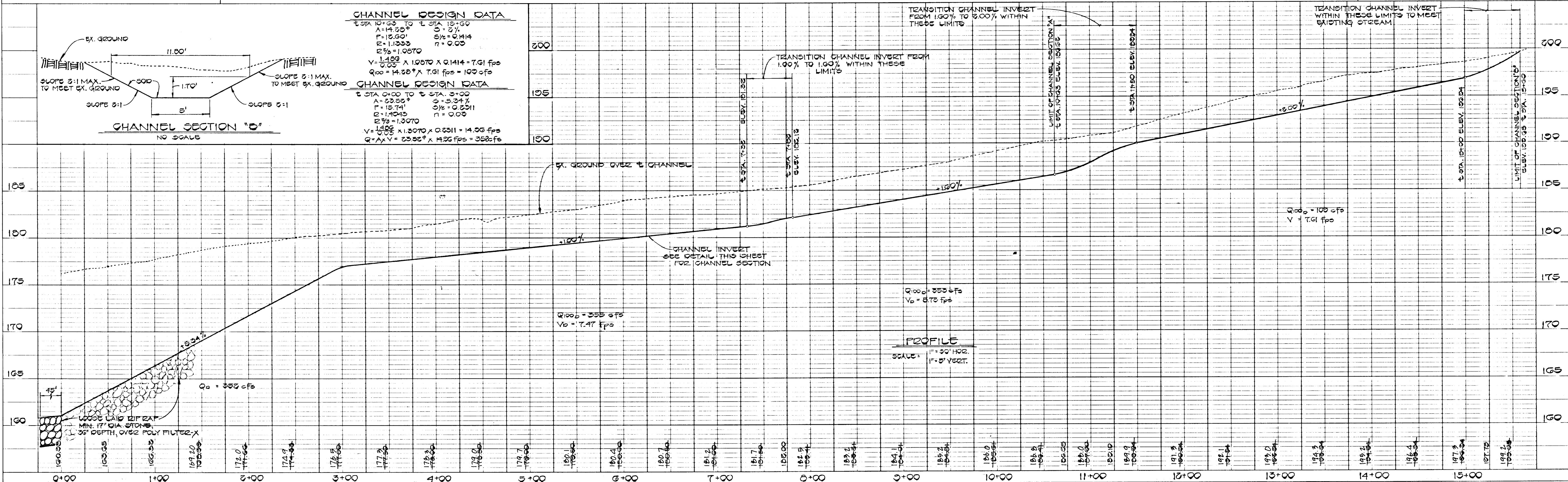
**CORRIDOR NORTH**  
 6TH ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND

**SODDED CHANNEL**  
 PLAN, PROFILE, AND DETAILS

OWNER AND DEVELOPER  
 COLUMBIA INDUSTRIAL DEVELOPMENT CORPORATION  
 10275 LITTLE PATUXENT PARKWAY  
 COLUMBIA, MARYLAND 21044

SCALE AS SHOWN DATE 3/26/84 DWG. NO. 8 OF 10  
 DES. C. CROVO DRN. A. BOGDAN CHK. R. B. CARTER

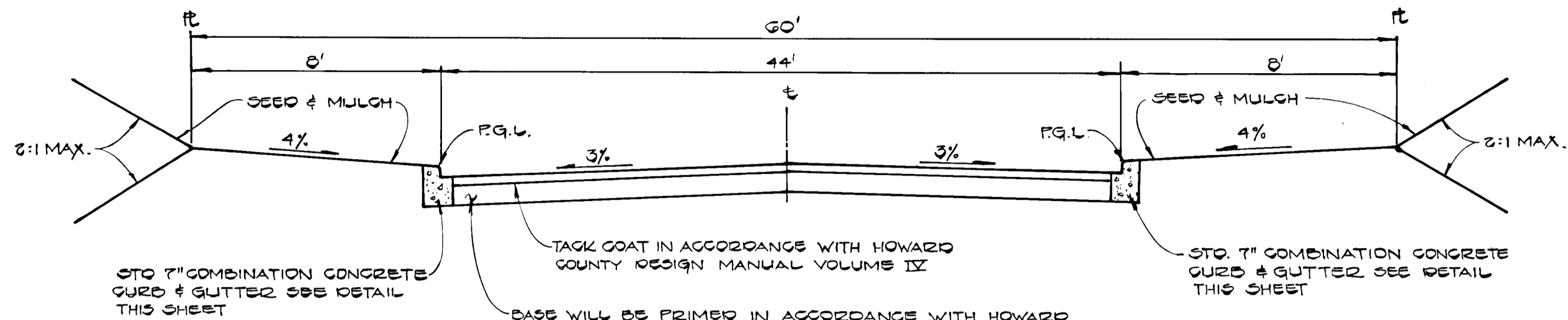
**FISHER, COLLINS AND CARTER, INC.**  
 CIVIL ENGINEERS AND LAND SURVEYORS  
 8388 COURT AVE. ELLICOTT CITY, MARYLAND 21043





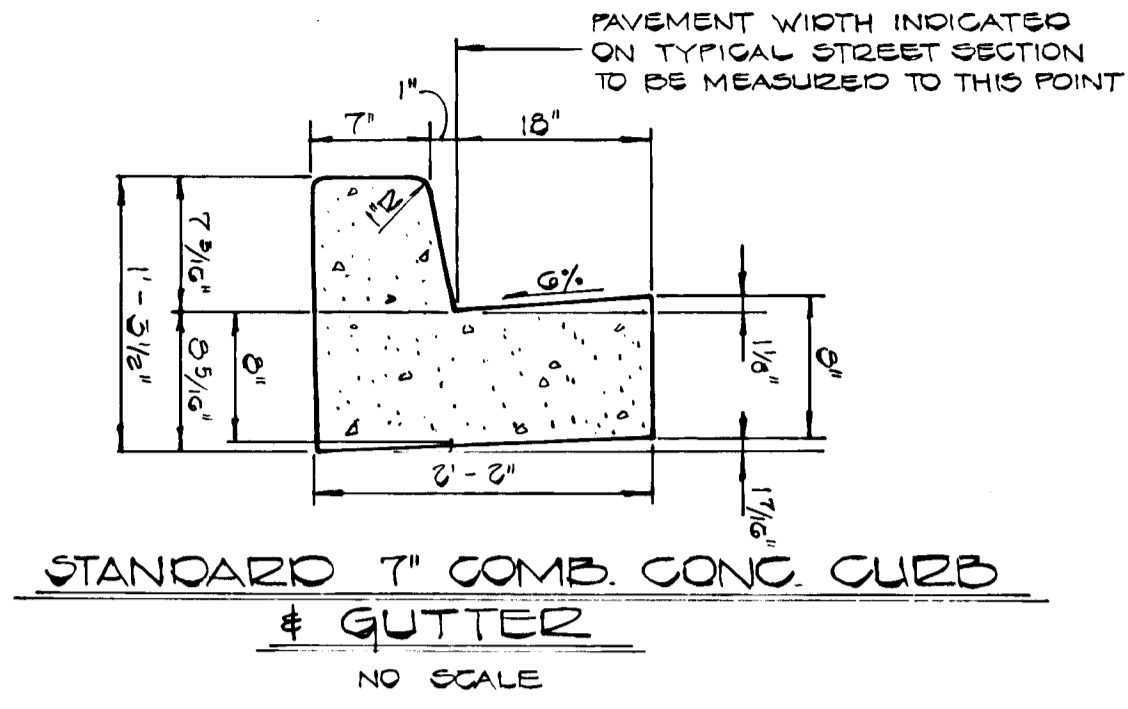
**IRON BRIDGE ROAD & RIGGS HILL ROAD**

TYPE OF TRAFFICWAY CULDESAG DESIGN SPEED 30 MPH  
ZONED M-3

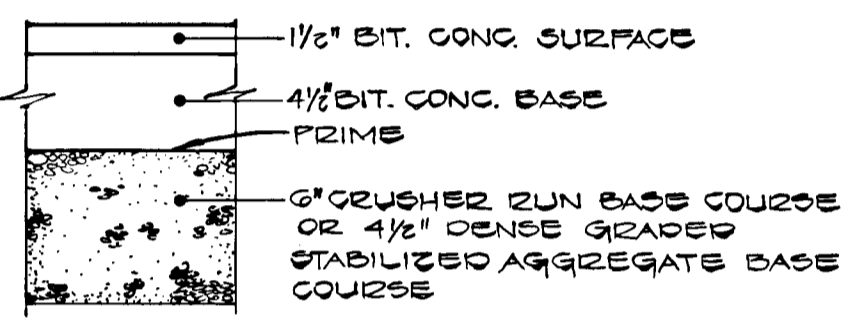


**TYPICAL ROADWAY SECTION**

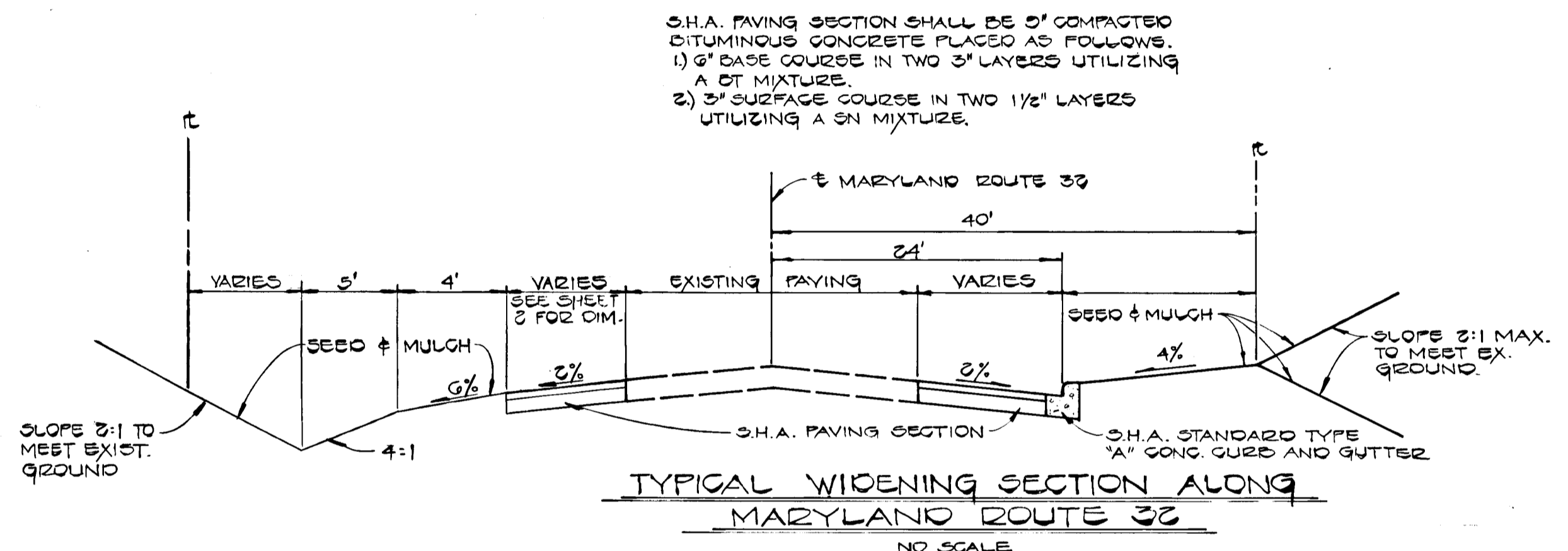
NO SCALE  
ALL MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH HOWARD COUNTY DESIGN MANUAL VOLUME IX SPECIFICATIONS AND DETAILS FOR CONSTRUCTION.



**STANDARD 7\"/>
 # GUTTER  
 NO SCALE**



**PAVING SECTION P-3**  
NO SCALE



**TYPICAL WIDENING SECTION ALONG MARYLAND ROUTE 32**  
NO SCALE

DATE	
BY	
SURVEYED	
ALIGNMENT CHECKED	
RT. OF WAY CHECKED	
PLAN	
NOTE BOOK NO.	

APPROVED  
DEPARTMENT OF PUBLIC WORKS  
*William S. Ryan* 9-7-86  
CHIEF, BUREAU OF ENGINEERING  
DATE

APPROVED  
OFFICE OF PLANNING AND ZONING  
*William S. Ryan* 9-7-86  
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION  
DATE



*Charles J. Crovo, Sr.*  
CHARLES J. CROVO, SR.  
DATE 3/23/84

**CORRIDOR NORTH**  
6TH ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

**ROAD SECTIONS AND DETAILS**

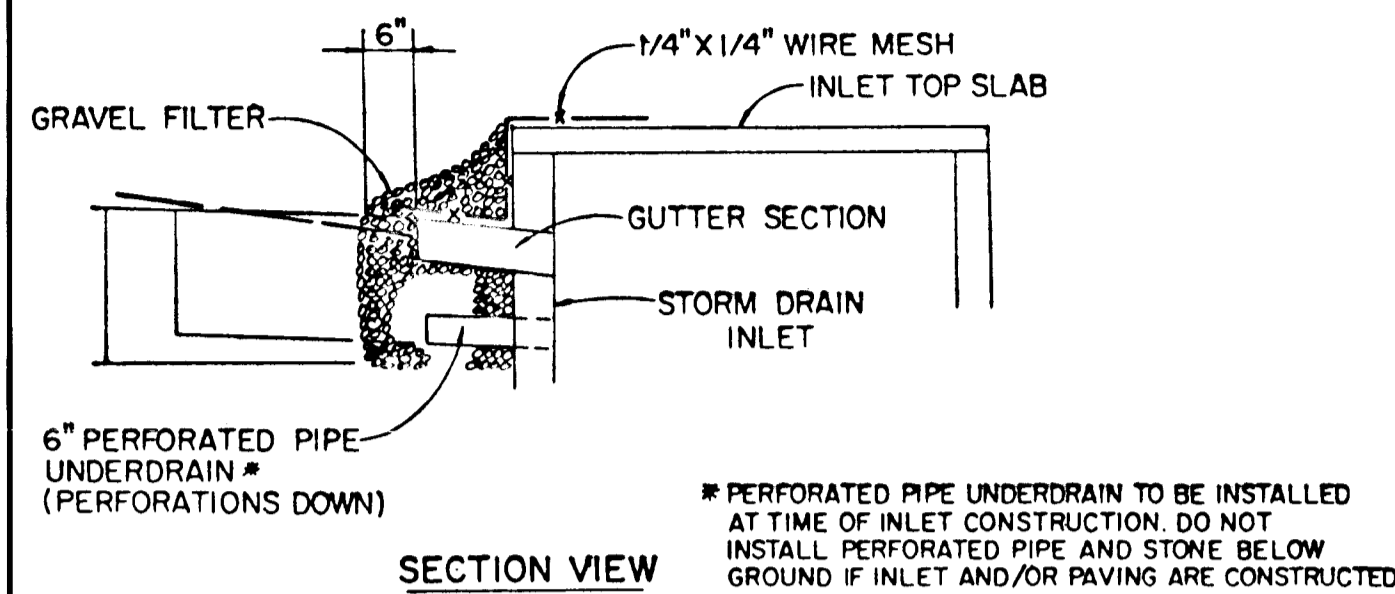
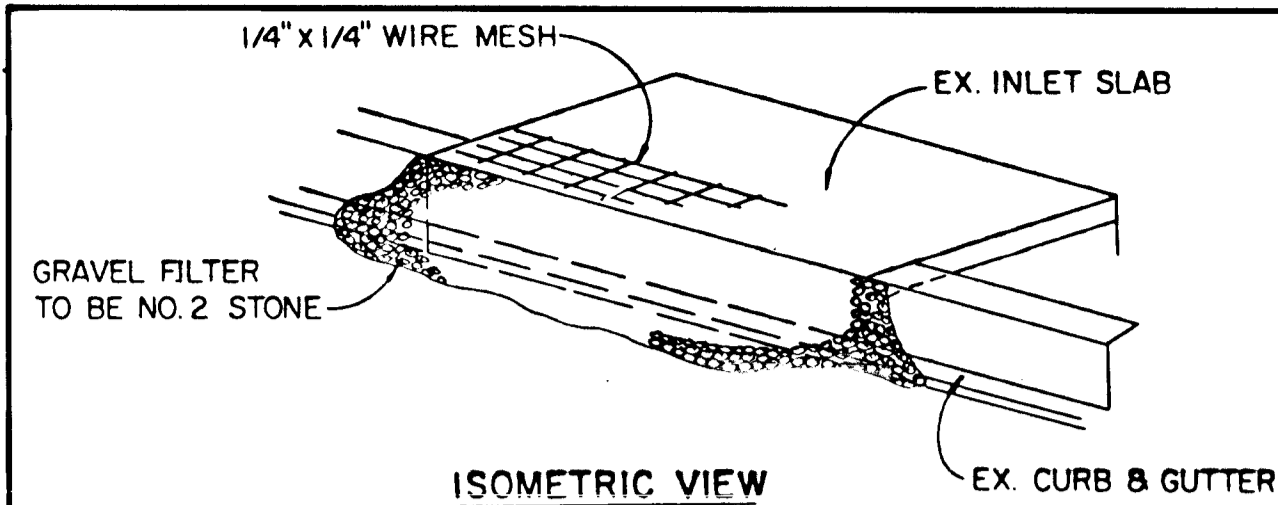
OWNER AND DEVELOPER  
COLUMBIA INDUSTRIAL DEVELOPMENT CORPORATION  
10275 LITTLE PATUXENT PARKWAY  
COLUMBIA, MARYLAND 21044

SCALE AS SHOWN DATE 3/26/84 DWG. NO. 9 OF 10  
DES. C. CROVO DRN. A. BOGDAN CHK. R. B. CARTER

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

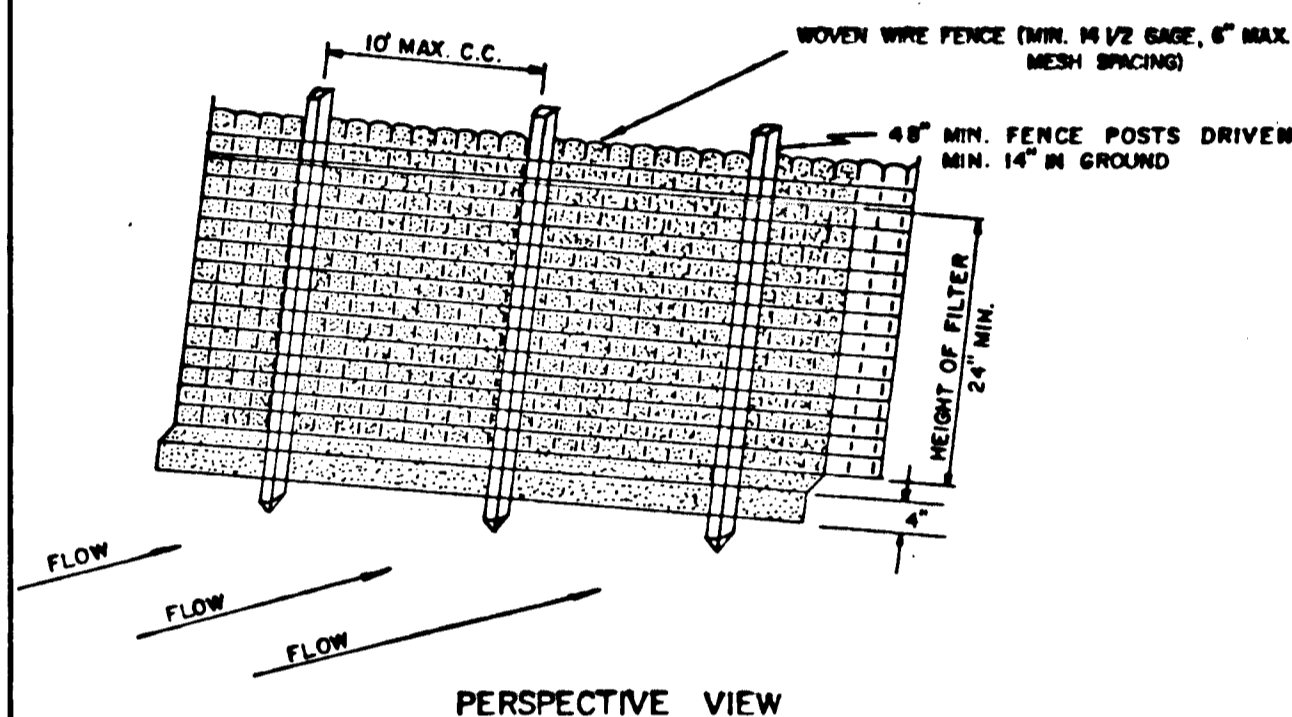
DATE	
BY	
SURVEYED	
GRADES CHECKED	
STRUCTURE NOTATIONS CHECKED	
PROFILE	
NOTE BOOK NO.	

#1073



STONE FILTER INLET PROTECTION DETAIL

NO SCALE



SECTION SILT FENCE DETAIL

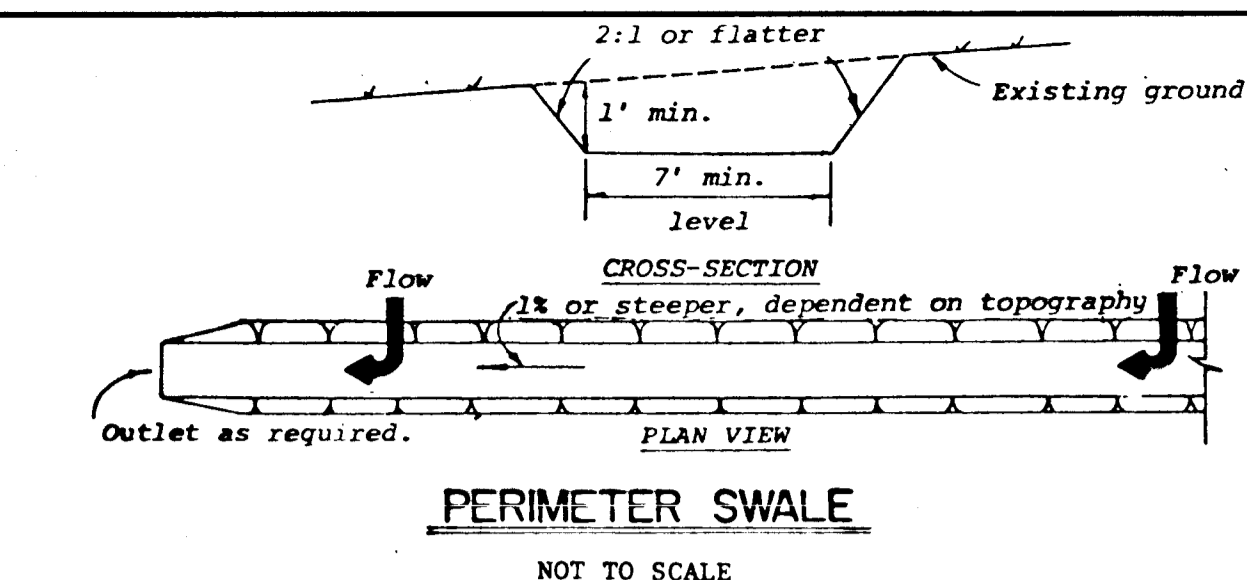
NOT TO SCALE

CONSTRUCTION SEQUENCE:

1. THE EXISTING SEDIMENT BASIN IS TO FUNCTION FOR SEDIMENT CONTROL.
2. OBTAIN GRADING PERMIT.
3. CONSTRUCT STONE CONSTRUCTION ENTRANCE AS SHOWN ON PLAN.
4. GRADE ROADS TO SUBGRADE STABILIZING SLOPE AREAS BETWEEN EXISTING GROUND AND BACK OF CURB USING PERMANENT SEEDING.
5. CONSTRUCT STORM DRAIN SYSTEM AND PERIMETER SWALES.
6. STABILIZE SITE WITH PERMANENT STABILIZATION MEASURES EXCAVATE 5' @ THE EXISTING 160 CONTOUR IN THE SEDIMENT BASIN FOR TEMPORARY SEDIMENT CONTROL.
7. THE CONVERSION OF THE EXISTING POND SHALL NOT BEGIN UNTIL SUCH TIME AS PERMISSION IS GRANTED BY THE SEDIMENT CONTROL INSPECTOR ON SITE.
8. DEWATER BASIN, REMOVE EXISTING PIPES @ SEDIMENT BASIN, CONSTRUCT CONTROL STRUCTURE, AND INSTALL 24" ORIFICE PIPE ALONG WITH THE TWIN 30" SPILLWAY PIPES.
9. THE 24" PIPE SHALL BE BLOCKED IN ACCORDANCE WITH THE DETAIL ON THIS SHEET. THE 24" PIPE SHALL REMAIN BLOCKED UNTIL SUCH TIME WHEN THE SEDIMENT BASIN TRANSITIONS TO FUNCTION AS A STORM WATER MANAGEMENT POND.
10. GRADE CHANNEL ALONG PROPERTY LINE AND STABILIZE WITH SOG. SOG SHALL BE PLACED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS ALONG WITH 4" TOPSOIL.
11. INSTALL STONE FILTER INLET PROTECTION DEVICES AT ALL INLETS.
12. CONSTRUCT CONCRETE CURB AND LAY BASE COURSE.
13. UPON STABILIZATION OF GRADED AREAS, INLETS SHALL BE OPENED AND ALL ACCUMULATED SEDIMENT SHALL BE REMOVED FROM THE STORM DRAIN SYSTEM.
14. DURING CONSTRUCTION, SEDIMENT SHALL BE REMOVED FROM THE STORM WATER MANAGEMENT POND WHEN THE CLEANOUT ELEVATION 159.7 HAS BEEN REACHED.
15. DURING CONSTRUCTION AND AFTER EACH RAINFALL, THE CONTRACTOR SHALL INSPECT AND PROVIDE NECESSARY MAINTENANCE ON THE SEDIMENT AND EROSION CONTROL STRUCTURES SHOWN HEREON.
16. REMOVE STONE CONSTRUCTION ENTRANCE.
17. CLEAN BASE COURSE, APPLY TACK COAT TO BASE COURSE AND LAY SURFACE COURSE.
18. STABILIZE ALL SHOULDERS USING PERMANENT SEEDING.
19. THE SEDIMENT BASIN SHALL BE DEWATERED BY PUMPING.
20. THE SEDIMENT FROM THE STORM WATER MANAGEMENT POND SHALL BE PLACED BETWEEN THE PROPOSED CUL-DE-SAC AND THE STORM WATER MANAGEMENT POND.
21. THE STORM WATER MANAGEMENT POND SHALL BE GRADED IN ACCORDANCE WITH SHEET FIVE AND STABILIZED IN ACCORDANCE WITH THE PERMANENT SEEDING SPECIFICATIONS IN THE SEDIMENT CONTROL NOTES. INSTALL RIP RAP APRON.
22. ALL DISTURBED AREAS DUE TO REMOVAL OF SEDIMENT CONTROL MEASURES SHALL BE GRADED AND STABILIZED BY PERMANENT SEEDING.
23. DURING THE CONSTRUCTION ALONG MARYLAND ROUTE 32 AND DORSEY RUN ROAD, THE CONTRACTOR SHALL PLACE STRAW BALE DIKES OR SILT FENCE DOWNGRADE OF ANY DISTURBED AREAS AT THE END OF EACH WORKING DAY.

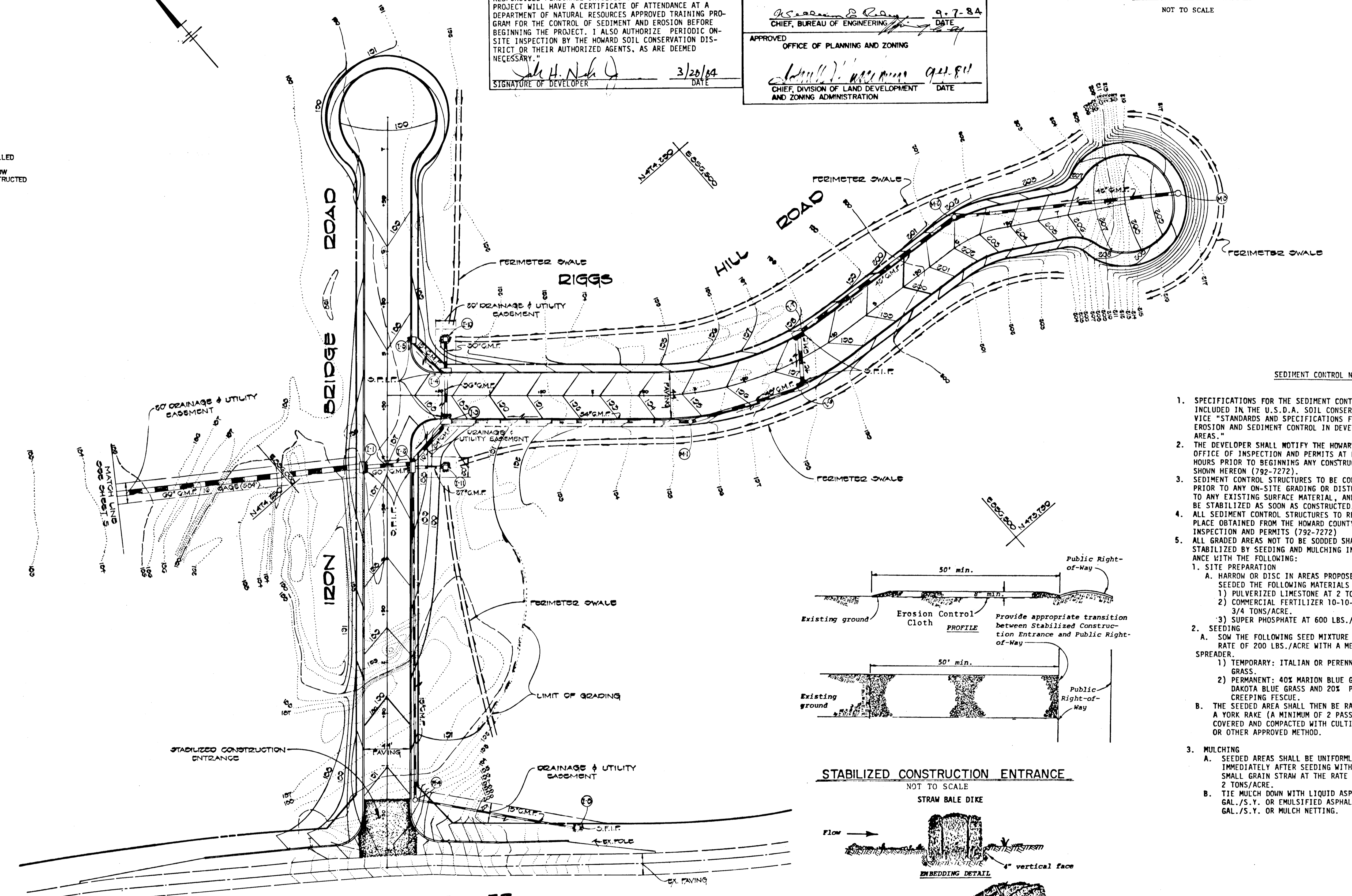
**ENGINEER'S CERTIFICATE**  
 REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.  
 U.S. SOIL CONSERVATION SERVICE DATE 8-31-84  
 THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.  
 APPROVED: Robert W. Ziehm 8-31-84  
 DISTRICT HOWARD SOIL CONSERVATION DISTRICT  
 APPROVED: DEPARTMENT OF PUBLIC WORKS  
 APPROVED: CHIEF, BUREAU OF ENGINEERING 9-7-84  
 APPROVED: OFFICE OF PLANNING AND ZONING  
 APPROVED: CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION 9-11-84

**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 SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY.  
 SIGNATURE OF DEVELOPER DATE 3/20/84



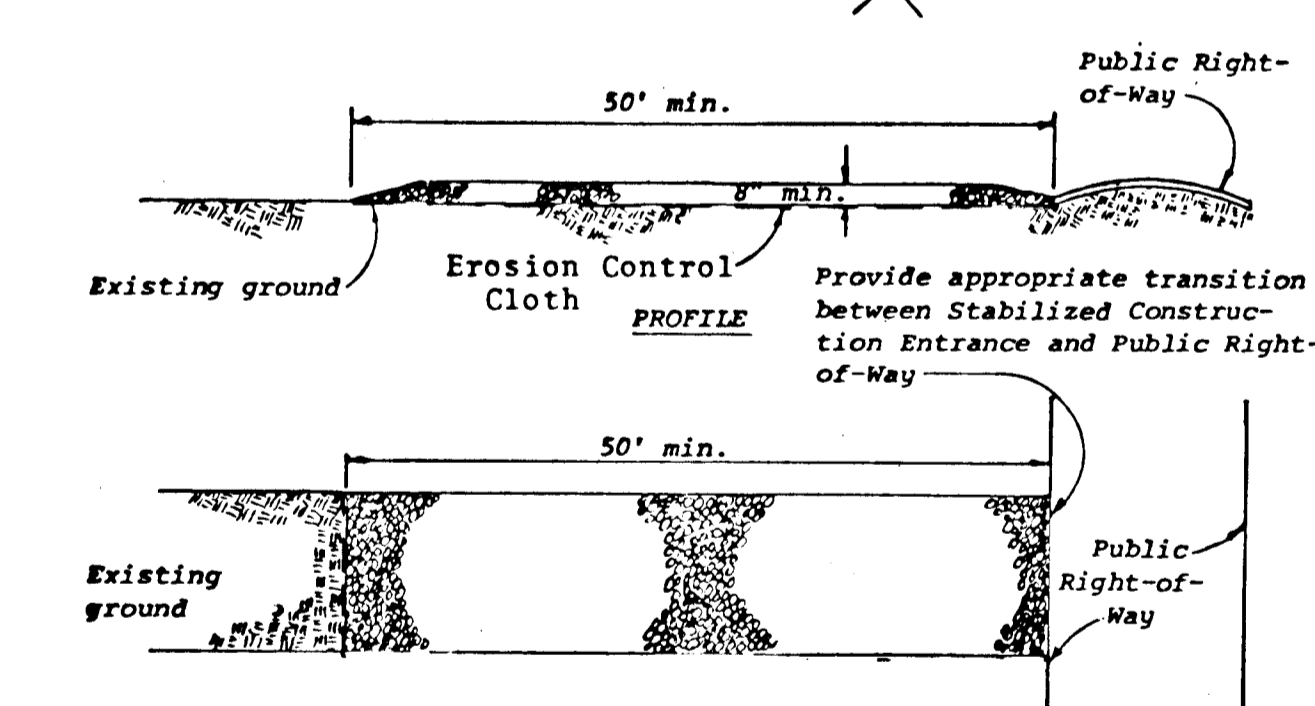
PERIMETER SWALE

NOT TO SCALE



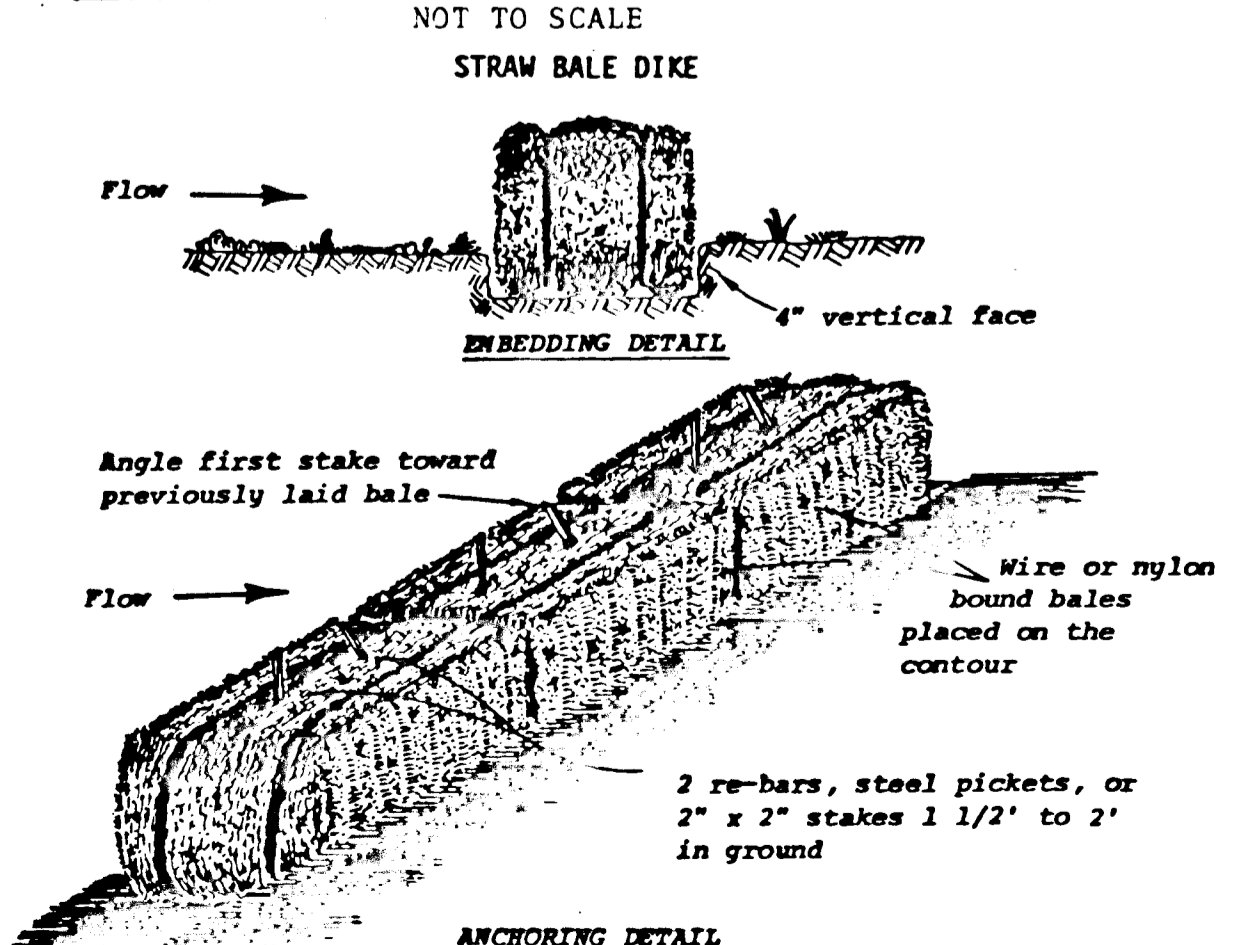
SEDIMENT CONTROL NOTES

1. SPECIFICATIONS FOR THE SEDIMENT CONTROL DETAILS INCLUDED IN THE U.S.D.A. SOIL CONSERVATION SERVICE "STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS."
2. THE DEVELOPER SHALL NOTIFY THE HOWARD COUNTY OFFICE OF INSPECTION AND PERMITS AT LEAST 24 HOURS PRIOR TO BEGINNING ANY CONSTRUCTION SHOWN HEREON (792-7272).
3. SEDIMENT CONTROL STRUCTURES TO BE CONSTRUCTED PRIOR TO ANY ON-SITE GRADING OR DISTURBANCE TO ANY EXISTING SURFACE MATERIAL, AND ARE TO BE STABILIZED AS SOON AS CONSTRUCTED.
4. ALL SEDIMENT CONTROL STRUCTURES TO REMAIN IN PLACE OBTAINED FROM THE HOWARD COUNTY OFFICE OF INSPECTION AND PERMITS (792-7272).
5. ALL GRADED AREAS NOT TO BE SODDED SHALL BE STABILIZED BY SEEDING AND MULCHING IN ACCORDANCE WITH THE FOLLOWING:
  1. SITE PREPARATION
    - A. HARROW OR DISC IN AREAS PROPOSED TO BE SEED THE FOLLOWING MATERIALS
      - 1) PULVERIZED LIMESTONE AT 2 TONS/ACRE.
      - 2) COMMERCIAL FERTILIZER 10-10-10 AT 3/4 TONS/ACRE.
      - 3) SUPER PHOSPHATE AT 600 LBS./ACRE.
  2. SEEDING
    - A. SOW THE FOLLOWING SEED MIXTURE AT THE RATE OF 200 LBS./ACRE WITH A MECHANICAL SPREADER.
      - 1) TEMPORARY: ITALIAN OR PERENNIAL RYE GRASS.
      - 2) PERMANENT: 40% MARION BLUE GRASS, 40% DAKOTA BLUE GRASS AND 20% PENN LAWN CREEPING FESCUE.
    - B. THE SEEDED AREA SHALL THEN BE RAKED WITH A YORK RAKE (A MINIMUM OF 2 PASSES) COVERED AND COMPACTED WITH CULTIPACKER OR OTHER APPROVED METHOD.
  3. MULCHING
    - A. SEEDED AREAS SHALL BE UNIFORMLY MULCHED IMMEDIATELY AFTER SEEDING WITH UNWEATHERED SMALL GRAIN STRAW AT THE RATE OF 1 1/2-2 TONS/ACRE.
    - B. TIE MULCH DOWN WITH LIQUID ASPHALT AT 0.1 GAL./S.Y. OR EMULSIFIED ASPHALT AT 0.04 GAL./S.Y. OR MULCH NETTING.



STABILIZED CONSTRUCTION ENTRANCE

NOT TO SCALE

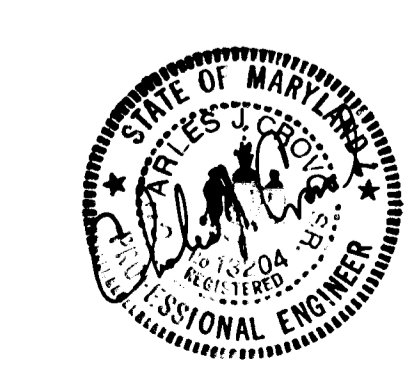


ANCHORING DETAIL

**SITE ANALYSIS**

TOTAL AREA	90.00 AC.
IMPERVIOUS AREA	8.1 AC.
AREA TO BE VEGETATED	80.00 AC.
UNDISTURBED AREA	90.00 AC.

**OWNER & DEVELOPER**  
 COLUMBIA INDUSTRIAL DEVELOPMENT CORPORATION  
 10770 LITTLE PATUXENT PARKWAY  
 COLUMBIA, MARYLAND 21044



**FISHER, COLLINS & CARTER, INC.**  
 CONSULTING ENGINEERS & LAND SURVEYORS  
 8300 GOWET AVENUE  
 BULLGOTT CITY, MARYLAND 21043

**GRADING & SEDIMENT CONTROL PLAN**  
**CORRIDOR NORTH**  
 6th ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
 TAX MAP 48 PARCEL 10  
 SCALE: AS SHOWN MARCH 20, 1984  
 SHEET 10 OF 10

#1093