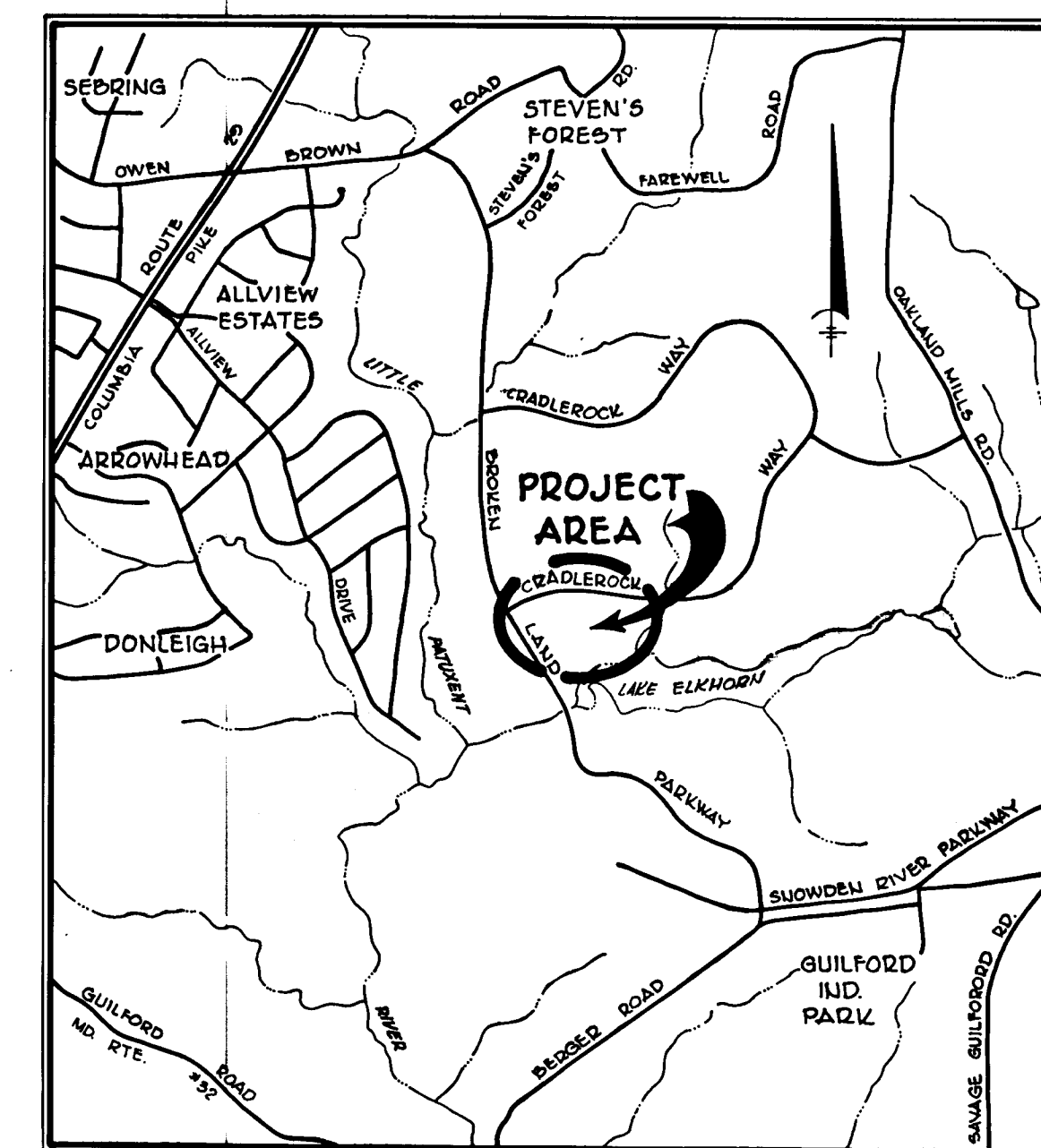


SHEET INDEX	
NO.	DESCRIPTION
1	TITLE SHEET
2	DETAIL SHEET
3	DETAIL SHEET
4	PLAN AND PROFILE - BROKEN STAFF STA. 0+00 TO 11+62.58
5	PLAN AND PROFILE - SWEET CLOVER STA. 0+00 TO 4+60.66 PLAN AND PROFILE - SEA CHANGE STA. 0+00 TO 4+05.54
6	DRAINAGE AREA MAP
7	STORM DRAIN PROFILES
8	SEDIMENT CONTROL PLAN
9	SEDIMENT CONTROL DETAILS

LAKESIDE VILLAGE OF OWEN BROWN SECTION 1 AREA 1 6 TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND



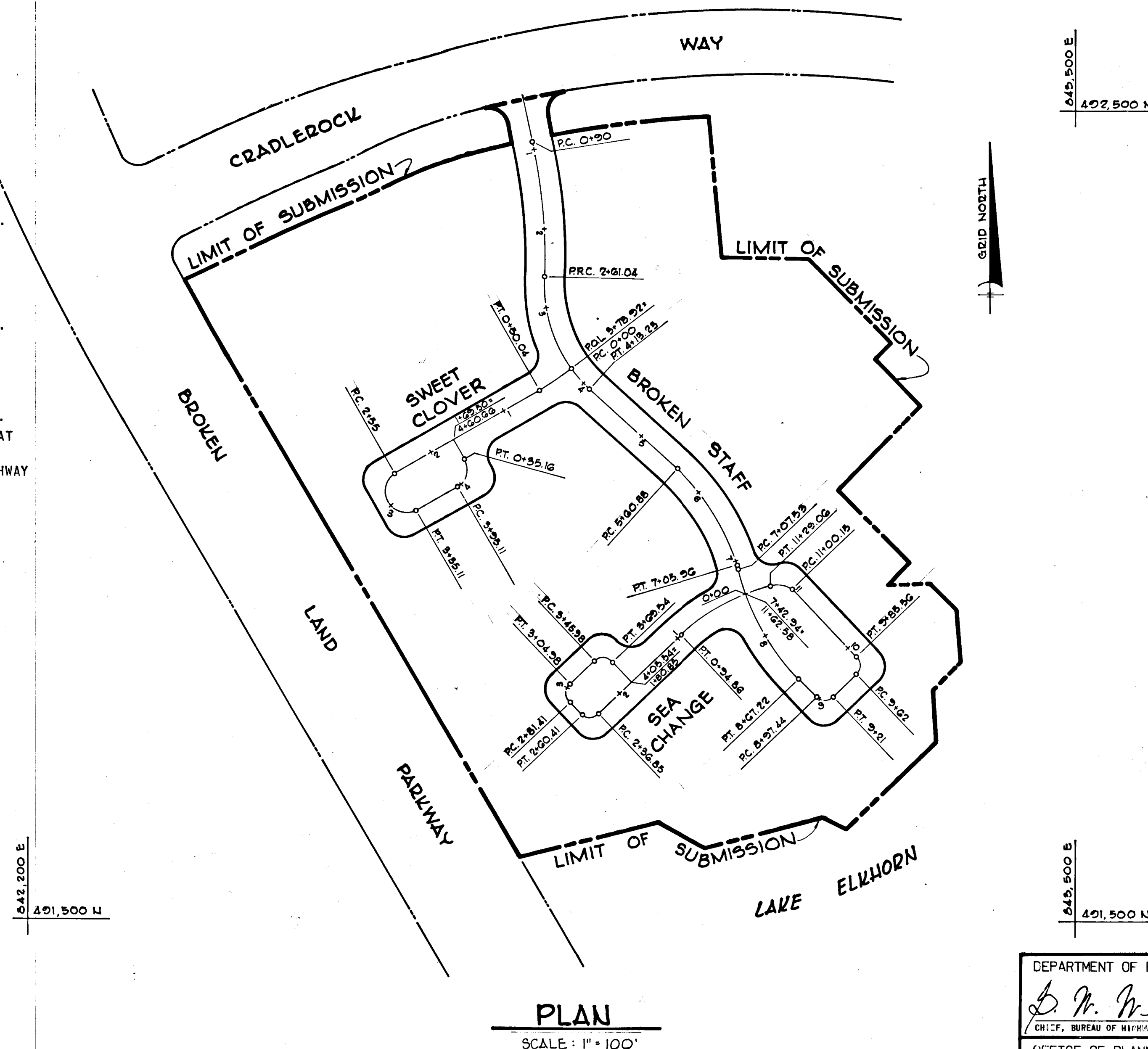
VICINITY MAP
SCALE: 1"=2,000'

GENERAL NOTES

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE HOWARD COUNTY ROAD CONSTRUCTION CODE AND STANDARD SPECIFICATIONS.
2. APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO CONTRACTOR'S OPERATION SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
3. THE CONTRACTOR SHALL TEST PIT EXISTING UTILITIES, WHERE DIRECTED BY THE ENGINEER, A MINIMUM OF TWO WEEKS IN ADVANCE OF CONSTRUCTION OPERATIONS.
4. CONTRACTOR TO NOTIFY THE FOLLOWING UTILITIES AT LEAST THREE DAYS BEFORE STARTING WORK SHOWN ON THIS/THESE DRAWINGS:

BELL TELEPHONE SYSTEM	393-3649
LONG DISTANCE CABLE DIVISION	393-3553 or 3554
BALTO. GAS AND ELECTRIC COMPANY	539-8000 Ext.691
5. ALL INLETS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOWARD COUNTY STANDARDS.
6. ALL STREET CURB RETURNS SHALL HAVE 35.0' RADII UNLESS OTHERWISE NOTED.
7. STORM DRAIN TRENCHES WITHIN ROAD RIGHT-OF-WAY SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH HOWARD COUNTY ROAD CODE.
8. INSTALLATION OF TRAFFIC CONTROL DEVICES, MARKING, AND SIGNING SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES 1971 EDITION.
9. PIPE SHALL NOT BE INSTALLED BY THE CONTRACTOR UNTIL THE LENGTH CALLED FOR AT EACH STATION HAS BEEN APPROVED BY THE ENGINEER IN THE FIELD.
10. DESIGNED TRAFFIC SPEED IN ACCORDANCE WITH THE AMERICAN ASSOC. OF STATE HIGHWAY OFFICIAL STANDARDS:

ALL 50' R/W's 25 M.P.H.
11. ALL ELEVATIONS SHOWN ARE BASED ON U.S.C. & G.S. MEAN SEA LEVEL DATUM 1929.
12. ALL FILL AREAS TO BE COMPACTED TO A MINIMUM 95% COMPACTION.



PLAN
SCALE: 1"=100'

DEPARTMENT OF PUBLIC WORKS
D. W. McElroy 11/2/77
CHIEF, BUREAU OF HIGHWAYS DATE

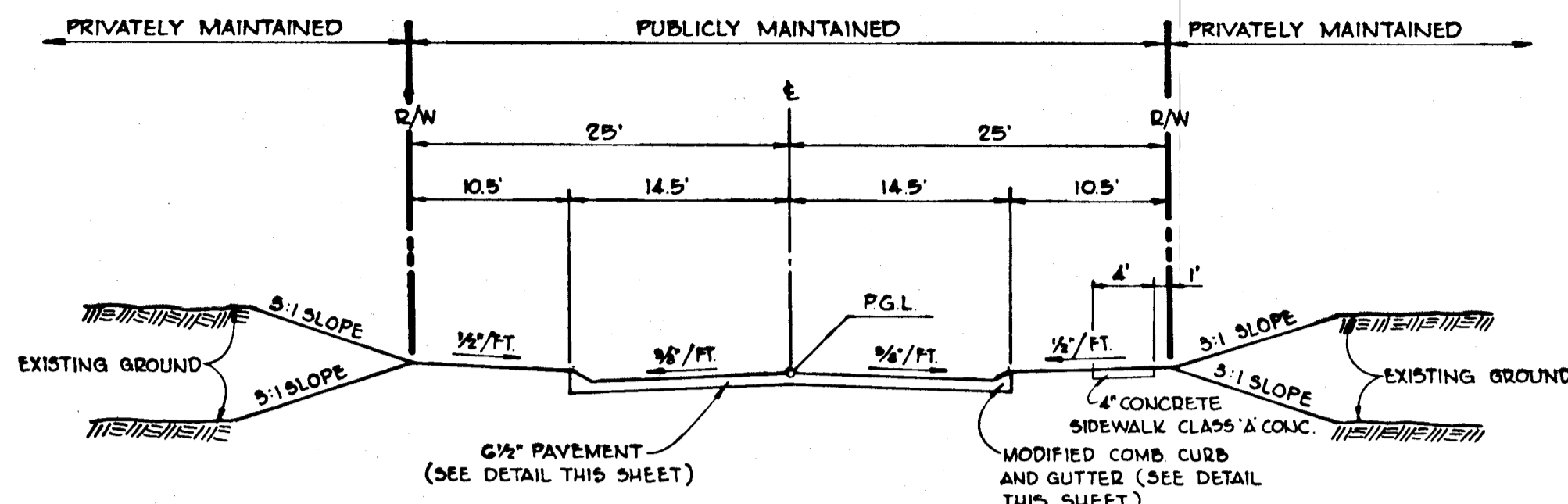
OFFICE OF PLANNING AND ZONING
John W. ... 11-16-77
CHIEF, DIVISION OF PLANNING AND DEVELOPMENT DATE

9-2-77
Date

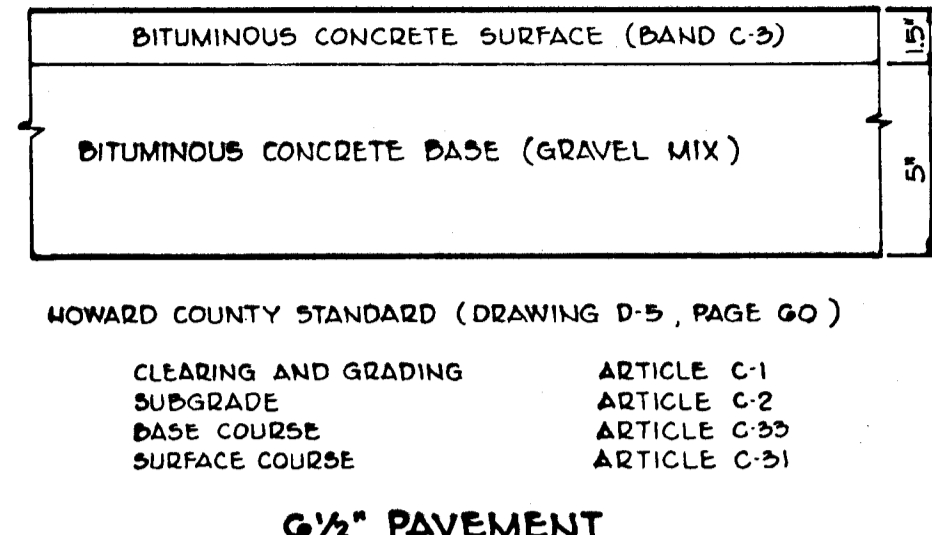
Professional Engr. No.

Date	No	Revision Description
OWNER AND DEVELOPER TROUTMAN COMMUNITIES Suite 300 - Wilde Lake Village Green COLUMBIA, MARYLAND 21044		
CENTURY ENGINEERING, INC. CONSULTING ENGINEERS - PLANNERS TOWSON, MARYLAND 21204		
AREA VILLAGE OF OWEN BROWN - SECT. 1, AREA 1 A RESUBDIVISION OF PART OF PARCEL F-1 & LOT 283 6th Election District Howard County, Md.		
TITLE SHEET		
Des By F.D.T.	Scale AS SHOWN	Proj No 6076
Drn By R.J.W.	Date 9-9-77	Drawing No. 1 OF 9
Chk By F.D.T.	Approved	

BRUNING 44-132-28586

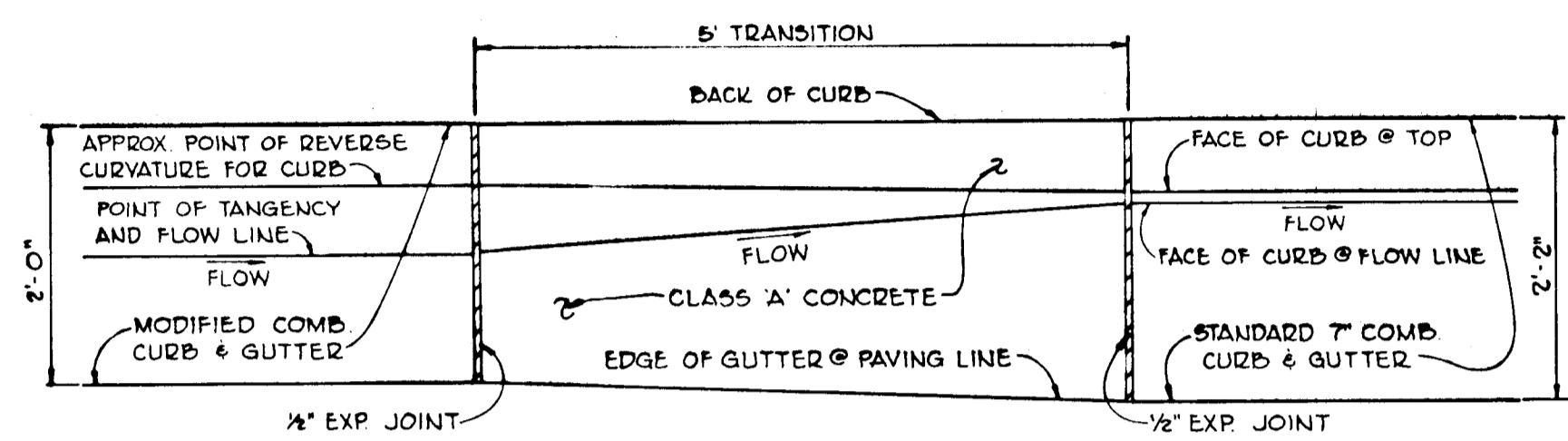
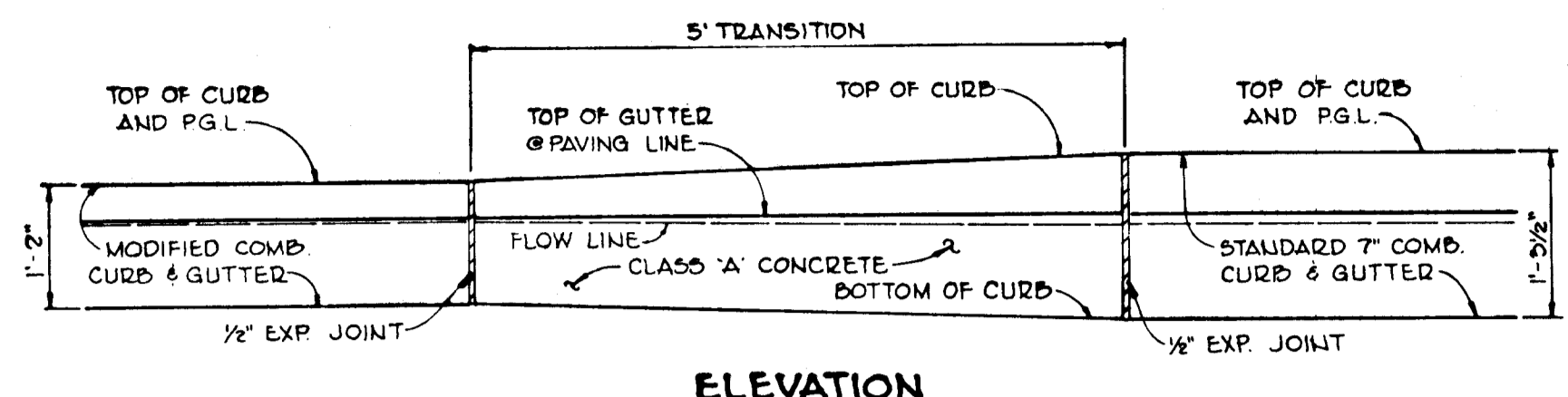


DESIGN SPEED 25 M.P.H.
 NEW TOWN SINGLE FAMILY ATTACHED
 LIMITS OF SIDEWALK FROM STA. 0+30 TO STA. 5+70
 BROKEN STAFF STA. 0+00 TO STA. 11+62.58
 SWEET CLOVER STA. 0+00 TO STA. 4+46.60
 SEA CHANGE STA. 0+00 TO STA. 4+05.54
TYPICAL SECTION (50'R/W)
 SCALE: 1" = 10'

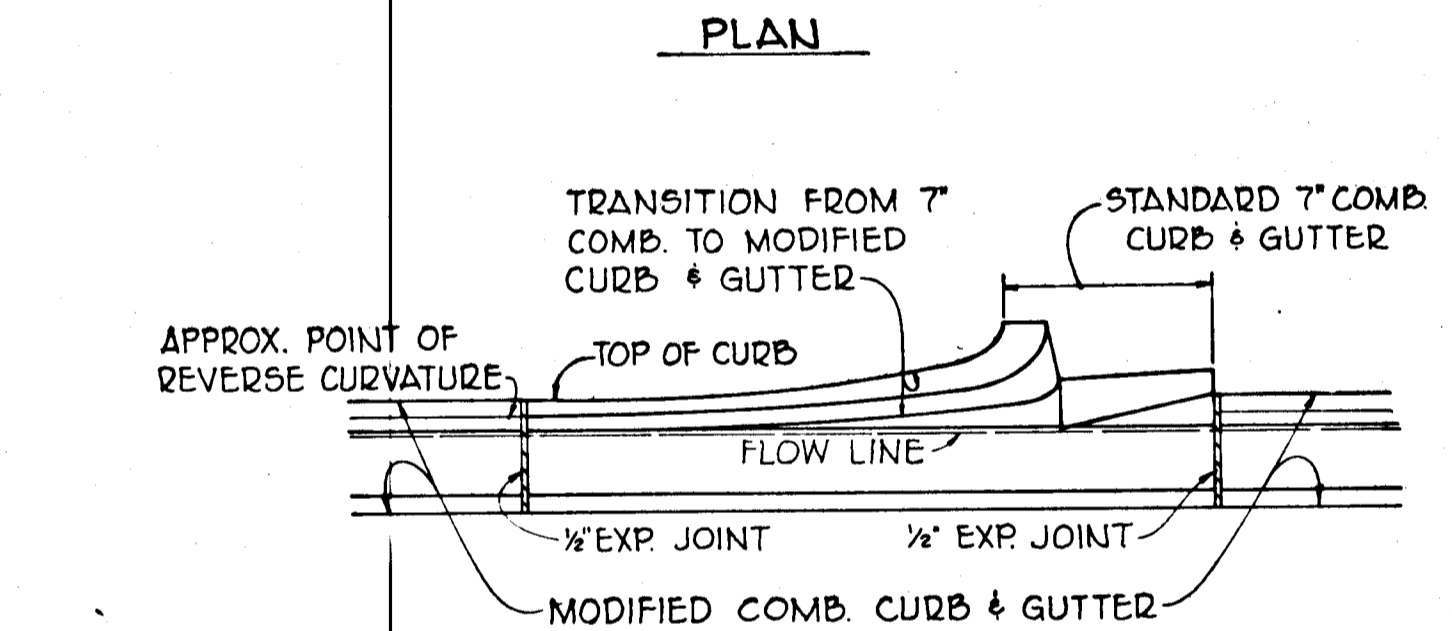
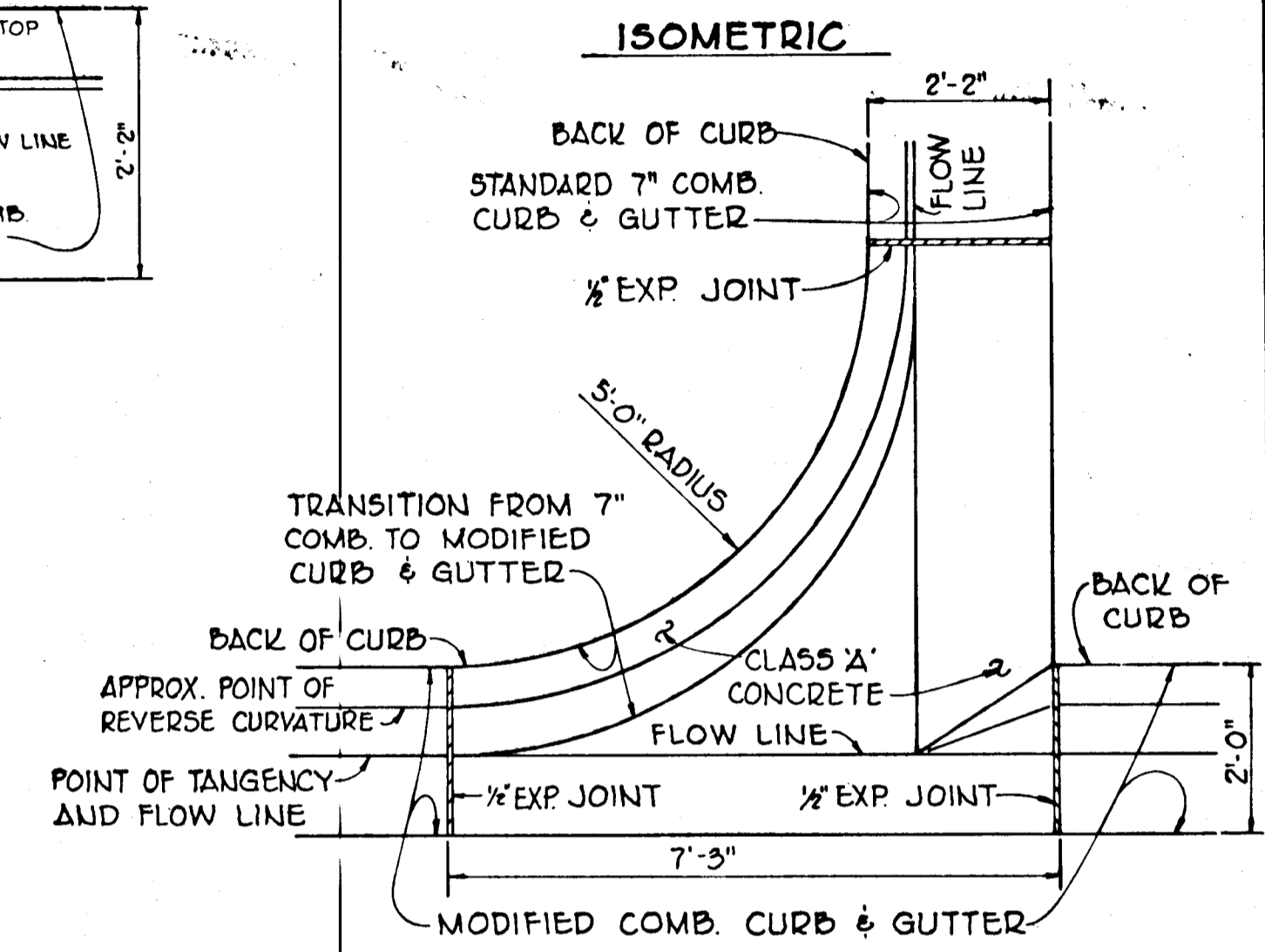
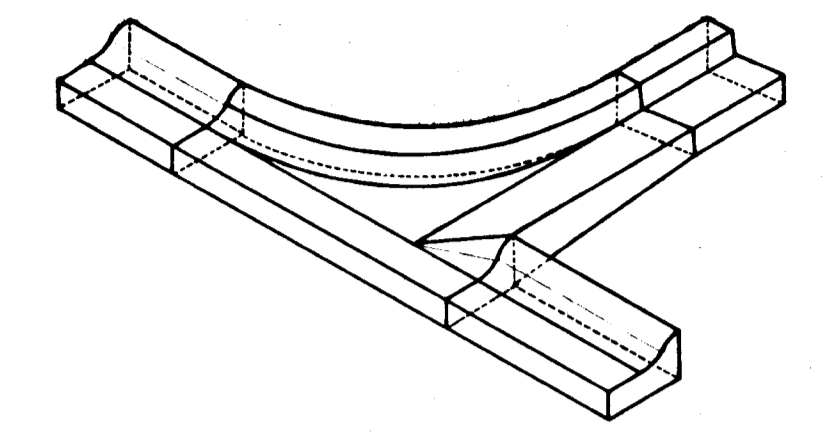


HOWARD COUNTY STANDARD (DRAWING D-5, PAGE 60)
 CLEARING AND GRADING SUBGRADE BASE COURSE SURFACE COURSE
 ARTICLE C-1
 ARTICLE C-2
 ARTICLE C-3D
 ARTICLE C-5I
6 1/2" PAVEMENT

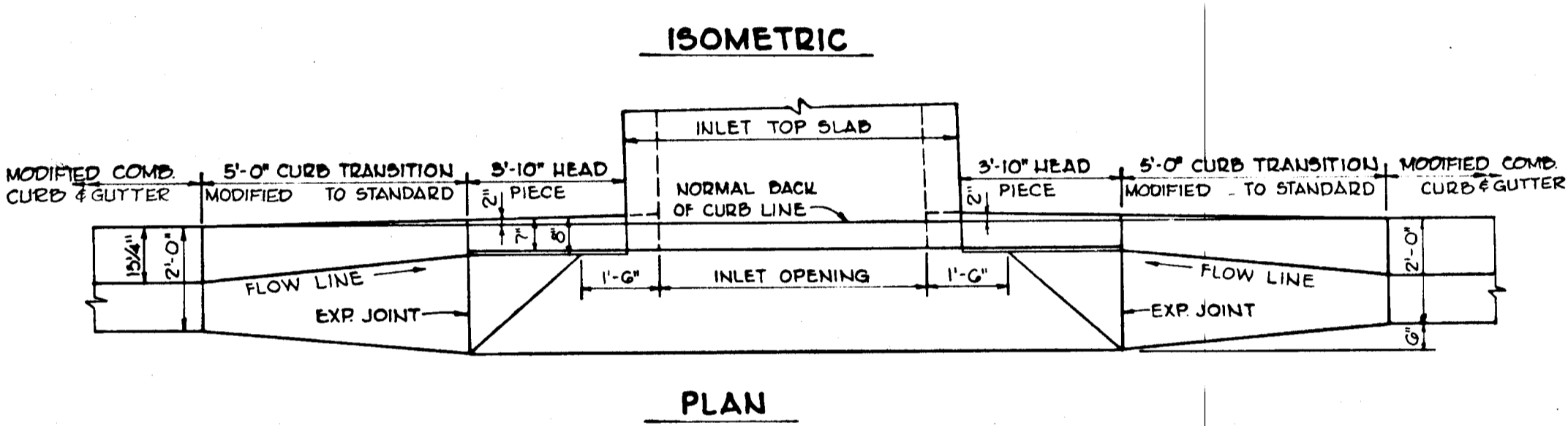
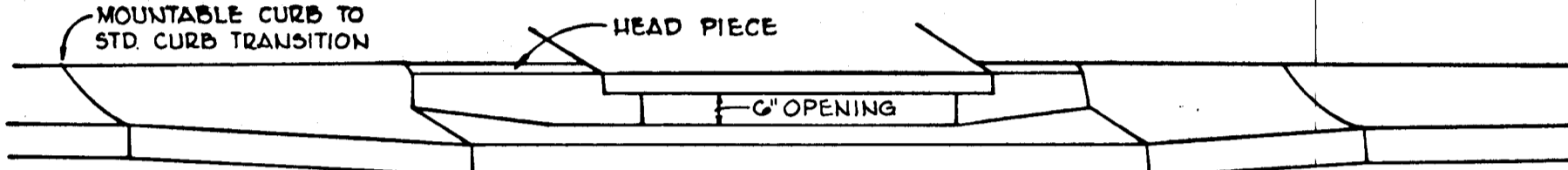
TYPICAL PAVING SECTION
 SCALE: 1" = 5'



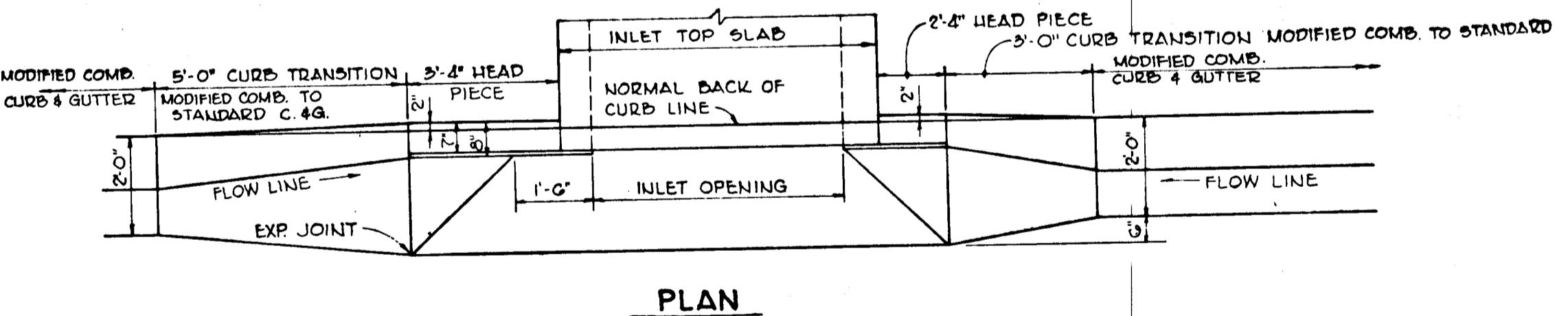
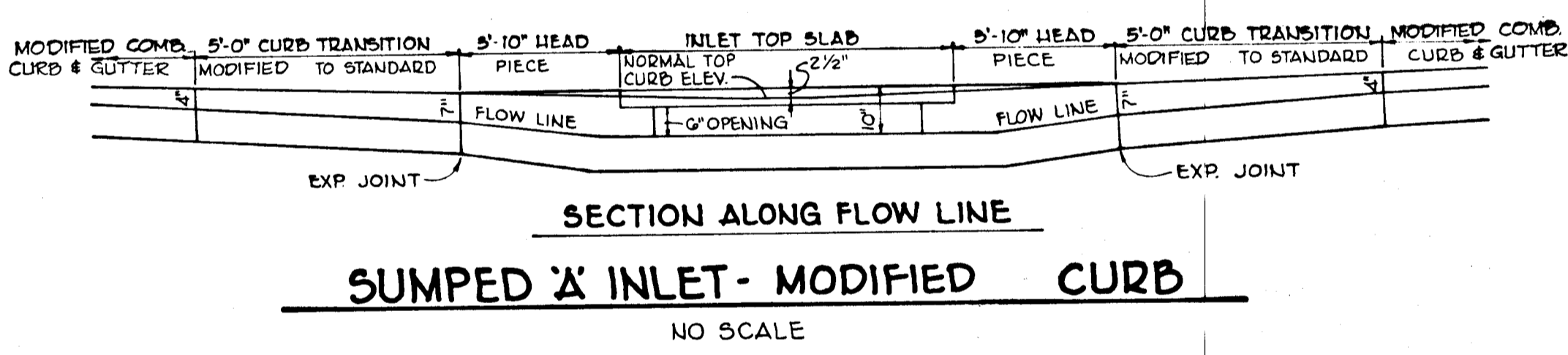
PLAN TYPE 1 CURB TRANSITION DETAIL
 NO SCALE



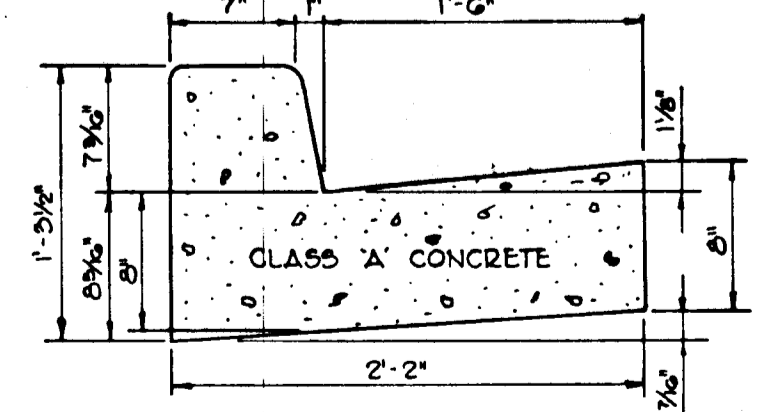
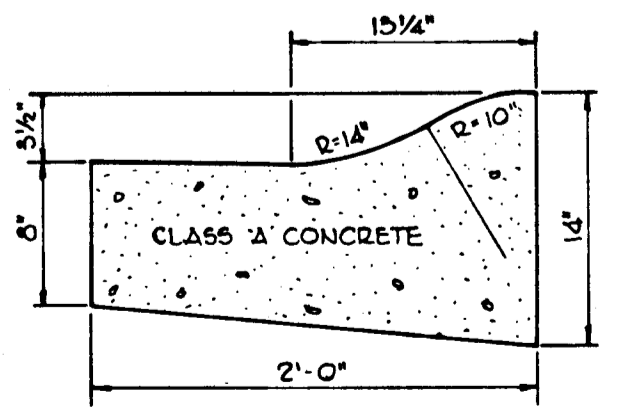
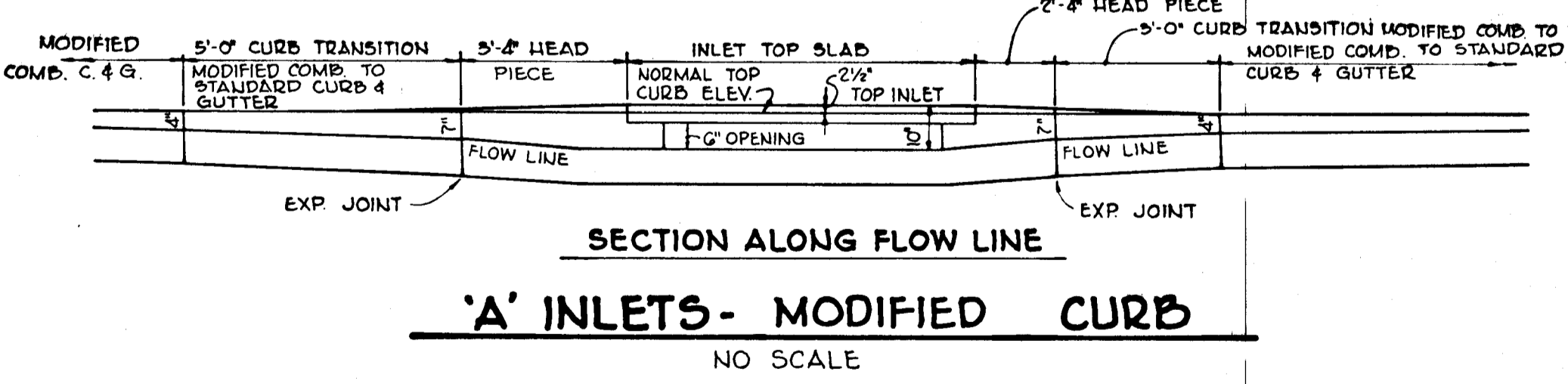
ELEVATION TYPE 2 (FROM MODIFIED C&G TO STD 7" COMB. C&G) CURB INTERSECTION TRANSITION DETAIL
 NO SCALE



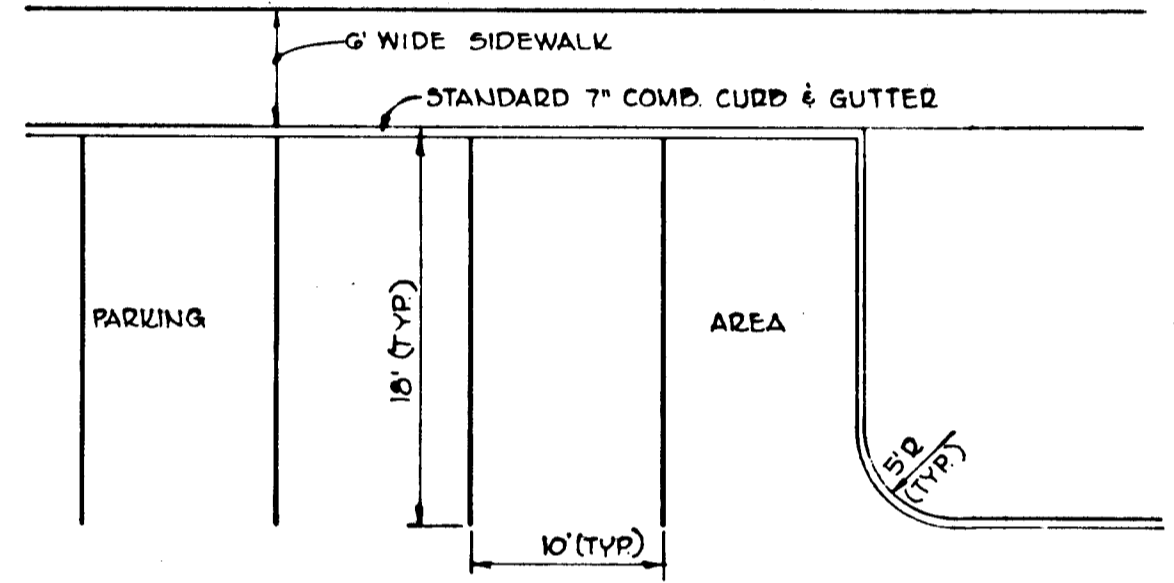
SECTION ALONG FLOW LINE SUMPED 'A' INLET - MODIFIED CURB
 NO SCALE



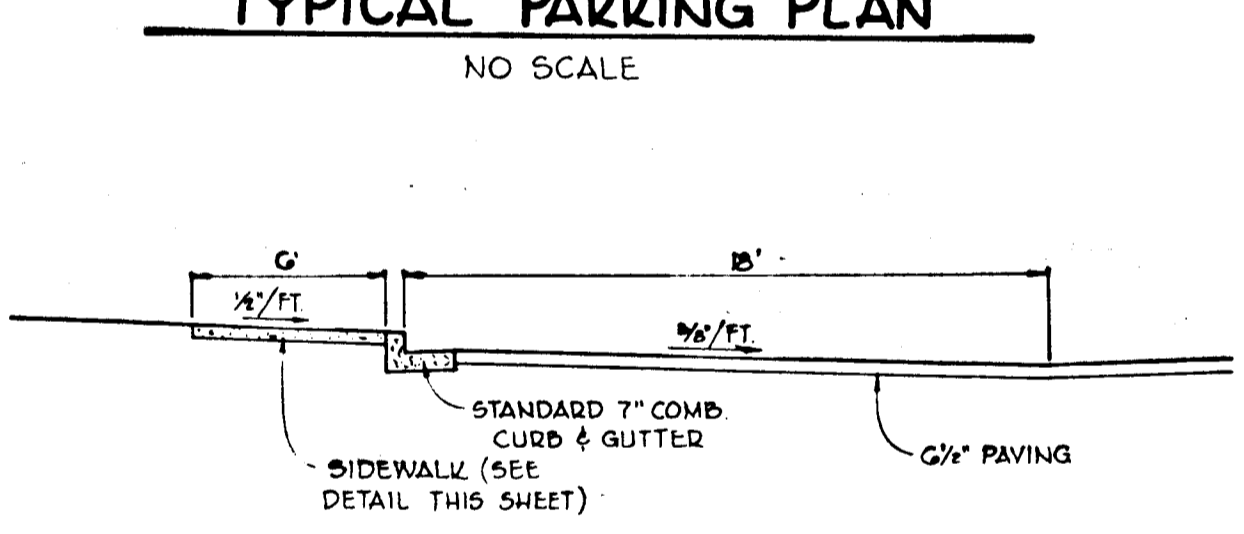
'A' INLETS - MODIFIED CURB
 NO SCALE



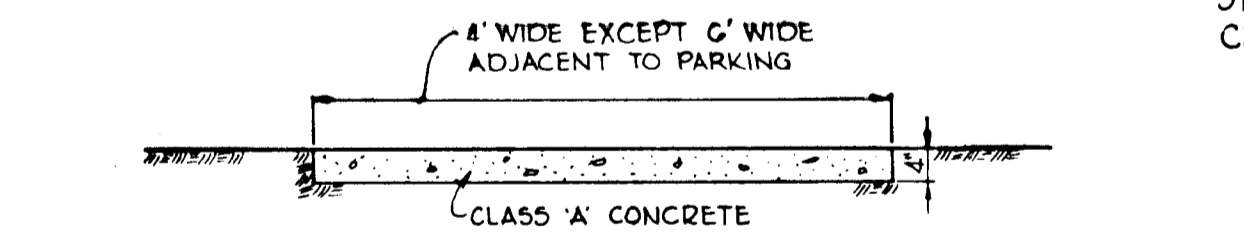
HOWARD COUNTY STANDARD (DRAWING D-40, PAGE 25) **MODIFIED COMB CURB AND GUTTER** NO SCALE
 HOWARD COUNTY STANDARD (DRAWING D-40, PAGE 25) **STANDARD 7" COMB CURB AND GUTTER** NO SCALE



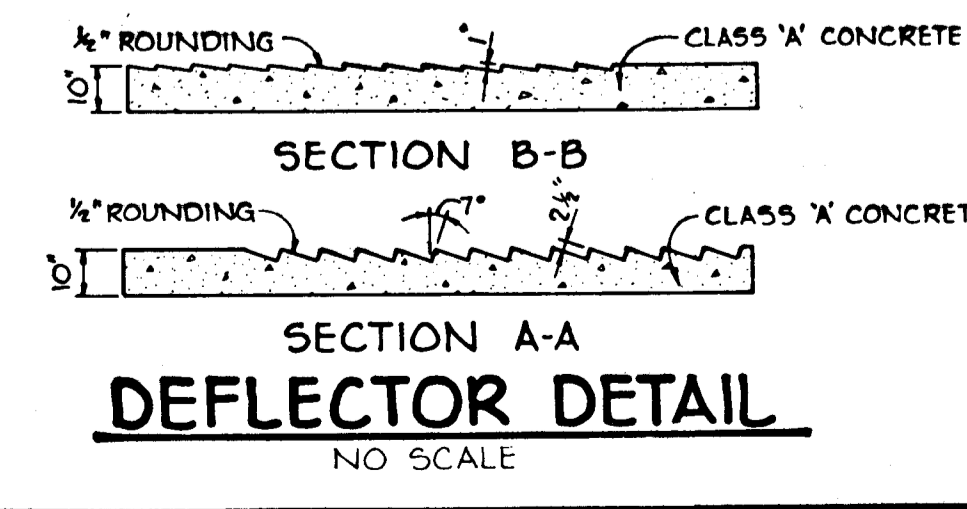
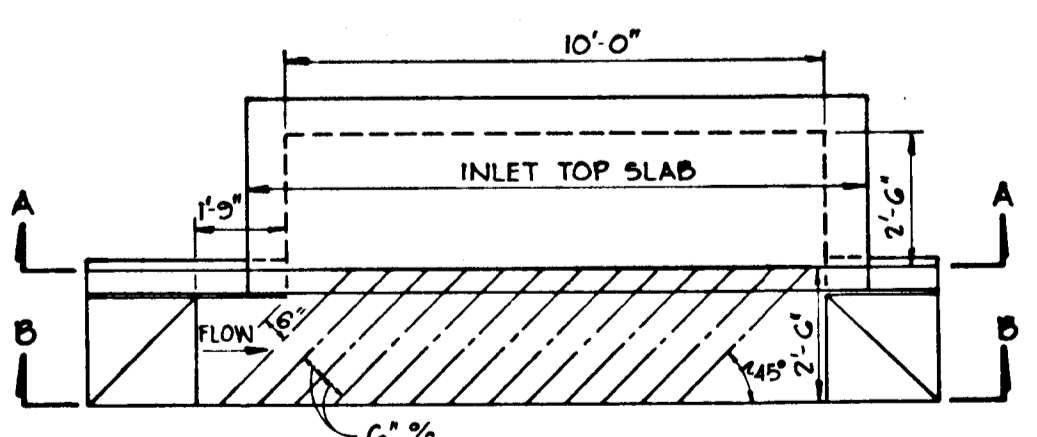
TYPICAL PARKING PLAN
 NO SCALE



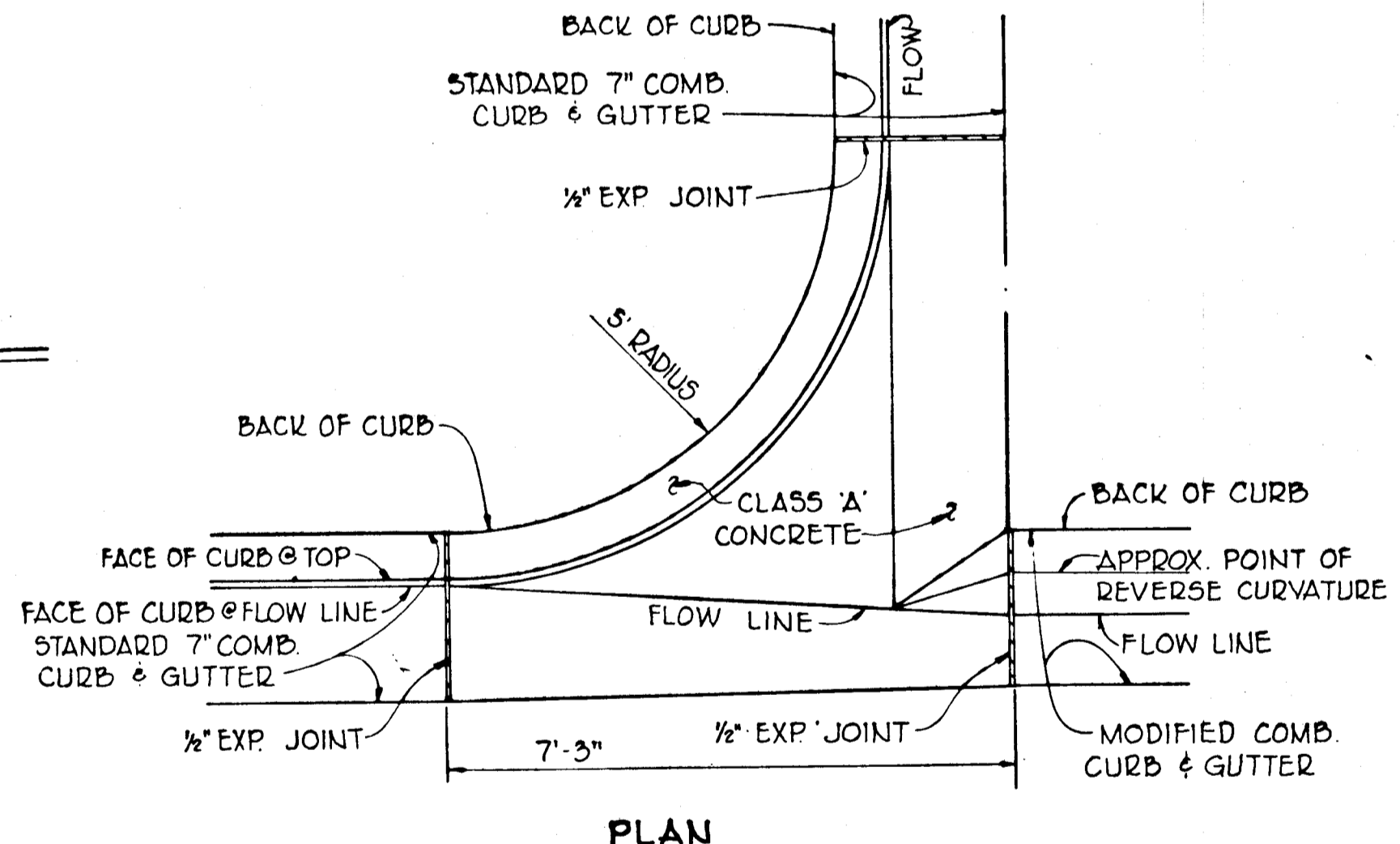
SECTION THROUGH PARKING
 NO SCALE



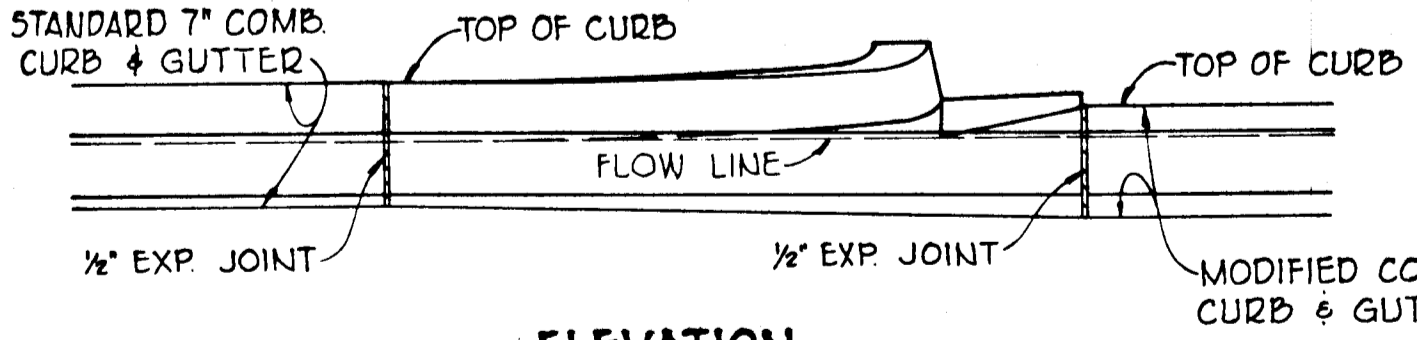
SIDEWALK DETAIL
 NO SCALE



DEFLECTOR DETAIL
 NO SCALE



ELEVATION TYPE 3 (FROM STD 7" COMB C&G TO MODIFIED C&G) CURB INTERSECTION TRANSITION DETAIL
 NO SCALE



DEPARTMENT OF PUBLIC WORKS
 CHIEF, BUREAU OF HIGHWAYS
 OFFICE OF PLANNING AND ZONING
 CHIEF, DIVISION OF LAND DEVELOPMENT
 B. M. [Signature] 11/2/77
 [Signature] 11-16-77
 DATE

2-2-77
 Date
 Robert A. James 4687
 Professional Engr. No.

Date	No.	Revision Description
		OWNER AND DEVELOPER
		TRUTMAN COMMUNITIES Suite 300 - Wilde Lake Village Green COLUMBIA, MARYLAND 21044
		CENTURY ENGINEERING, INC CONSULTING ENGINEERS - PLANNERS TOWSON, MARYLAND 21204
		AREA VILLAGE OF OWEN BROWN - SECT. 1, AREA 1 A RESUBDIVISION OF PART OF PARCEL F-1 & LOT 283 6th Election District Howard County, Md.
		TITLE DETAIL SHEET
Des By	F.D.T.	Scale AS SHOWN
Drn By	L.J.D.	Proj No 6076
Chk By	F.D.T.	Date 2-2-77
		Approved
		Drawing No. 2 OF 9

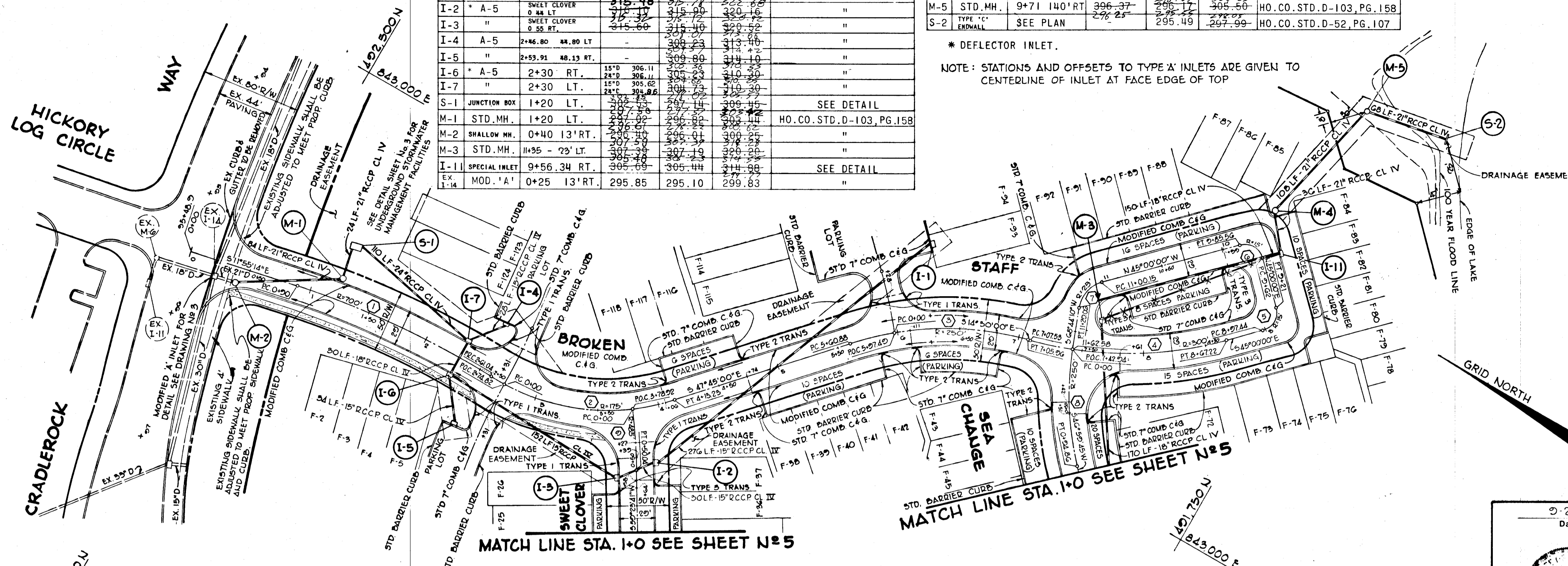
PLAN
SURVEYED
PLOTTED
CHECKED
BY
DATE
NOTE BOOK
NO.

PROFILE
SURVEYED
PLOTTED
CHECKED
BY
DATE
NOTE BOOK
NO.

STRUCTURE SCHEDULE						
NO.	TYPE	LOCATION	INV. IN	INV. OUT	TOP ELEV.	REMARKS
I-1	A-5 INLET	6+27.38 70.00 LT.	315.78	318.88	325.50	HO. CO. STD. D-64-A PG. 119-A
I-2	A-5	SWEET CLOVER 0 34 LT.	315.78	315.78	320.16	"
I-3	"	SWEET CLOVER 0 34 LT.	315.60	315.40	320.52	"
I-4	A-5	2+46.80 44.80 LT.	315.60	315.40	320.52	"
I-5	"	2+53.91 48.13 RT.	-	-	314.10	"
I-6	A-5	2+30 RT.	315.78	315.78	320.16	"
I-7	"	2+30 LT.	315.78	315.78	320.16	"
S-1	JUNCTION BOX	1+20 LT.	-	-	310.91	SEE DETAIL
M-1	STD. MH.	1+20 LT.	305.77	305.77	305.77	HO. CO. STD. D-103, PG. 158
M-2	SHALLOW MH.	0+40 13' RT.	305.77	305.77	305.77	"
M-3	STD. MH.	11+55 - 23' LT.	305.77	305.77	305.77	"
I-11	SPECIAL INLET	9+56.34 RT.	305.77	305.77	305.77	SEE DETAIL
I-14	MOD. 'A'	0+25 13' RT.	295.85	295.10	299.83	"

STRUCTURE SCHEDULE (CONTINUED)						
NO.	TYPE	LOCATION	INV. IN	INV. OUT	TOP ELEV.	REMARKS
M-4	STD. MH.	9+72.75 36.09 RT.	305.08	304.88	315.70	HO. CO. STD. D-103, PG. 158
M-5	STD. MH.	9+71 140' RT.	306.37	306.27	305.50	HO. CO. STD. D-103, PG. 158
S-2	TYPE 'C' ENWALL	SEE PLAN	292.25	295.49	297.99	HO. CO. STD. D-52, PG. 107

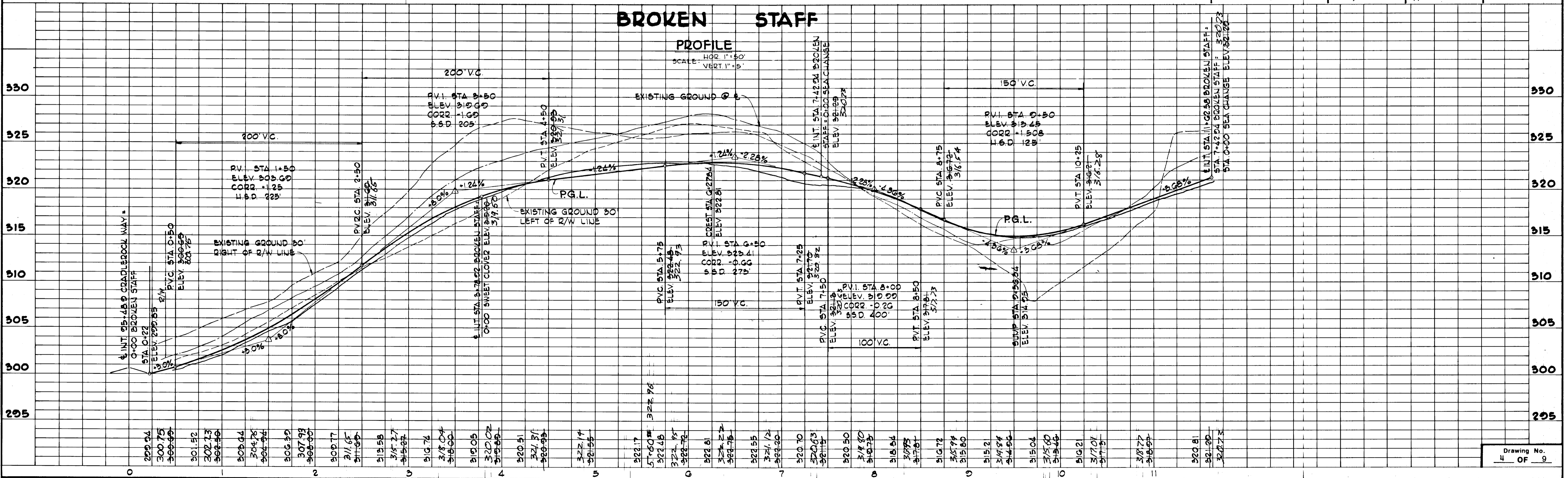
ROAD CURVE DATA						
NO.	RAD.	Δ	TAN.	ARC.	CHD.	L.C.B.
1	700.00	119°-00'-00"	85.95	171.04	170.62	S 04°-55'-11" E
2	175.00	49°-49'-46"	81.29	152.20	147.44	S 22°-50'-07" E
3	250.00	33°-15'-00"	74.65	145.08	143.05	S 31°-07'-30" E
4	300.00	30°-30'-00"	81.79	159.70	157.82	S 29°-45'-00" E
5	15.00	90°-00'-00"	15.00	23.56	21.21	S 90°-00'-00" E
6	15.00	90°-00'-00"	15.00	23.56	21.21	DUE NORTH
7	25.00	66°-15'-50"	16.32	28.91	27.33	N 78°-07'-55" W
8	250.00	21°-44'-25"	48.01	94.86	94.29	S 57°-51'-58" W
9	485.00	05°-54'-41"	25.04	50.04	50.02	S 56°-26'-21" W



PLAN
Scale 1"=50'

BROKEN STAFF

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



DEPARTMENT OF PUBLIC WORKS
D. P. McLeant 11/2/77
 CHIEF, BUREAU OF HIGHWAYS
 OFFICE OF PLANNING AND ZONING
Shull 11-16-77
 CHIEF, DIVISION OF LAND DEVELOPMENT

Date	No.	Revision Description

OWNER AND DEVELOPER
 TROUTMAN COMMUNITIES
 Suite 300 - Wilde Lake Village Green
 COLUMBIA, MARYLAND 21044

CENTURY ENGINEERING, INC.
 CONSULTING ENGINEERS - PLANNERS
 TOWSON, MARYLAND 21204

AREA VILLAGE OF OWEN BROWN - SECT. 1, AREA 1
 A RESUBDIVISION OF PART OF PARCEL F-1 & LOT 283
 6th Election District Howard County, Md.

TITLE
 PLAN AND PROFILE
 BROKEN STAFF

Des By F.T.	Scale AS SHOWN	Proj No 6076
Drn By R.J.W.	Date 9-6-77	
Chk By	Approved	

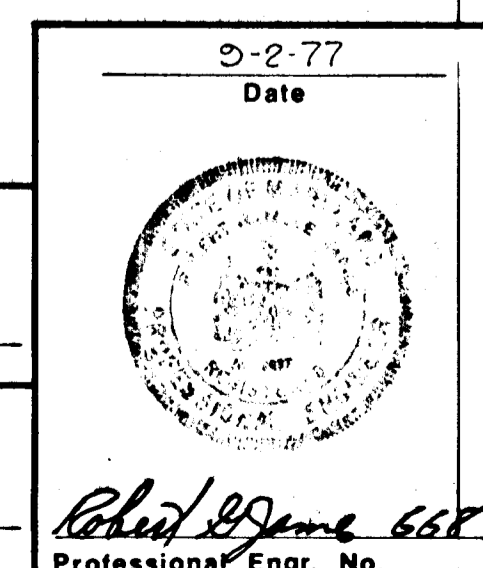
Robert James 6687
 Professional Engr. No.

ASBOLT 11/2/77 I.R.C.F. - 78-50c

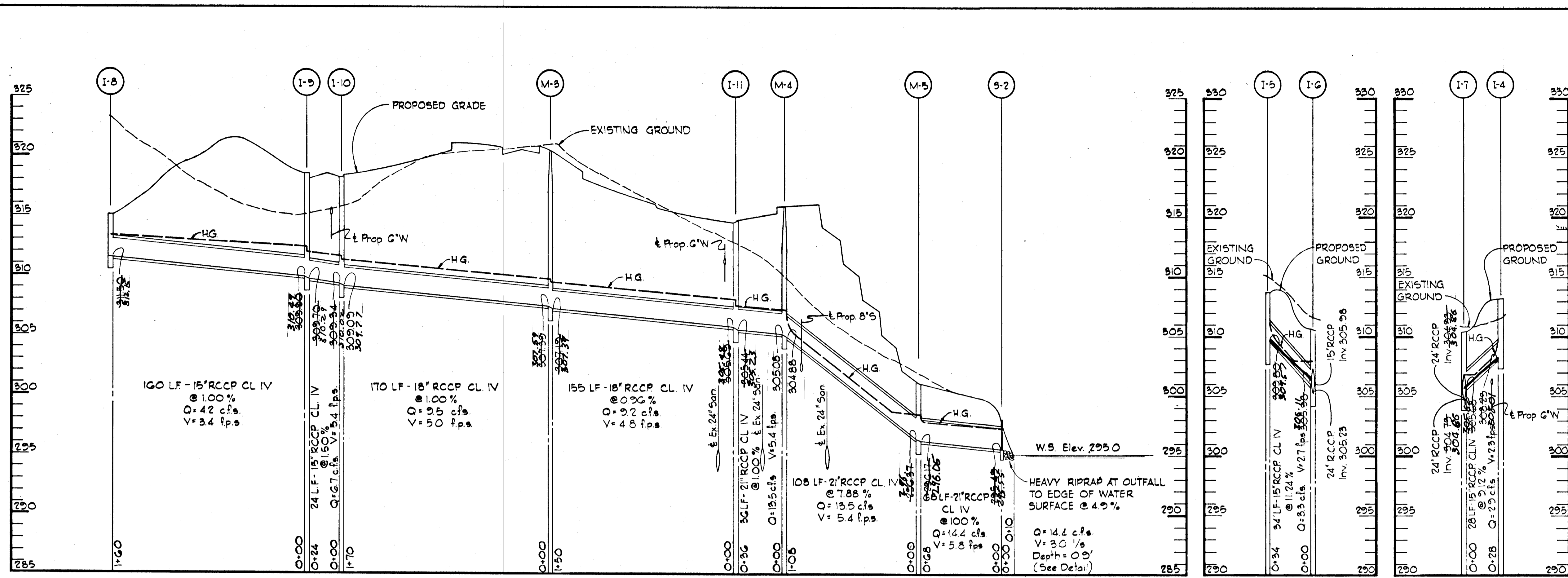


PLAN
SCALE: 1" = 50'

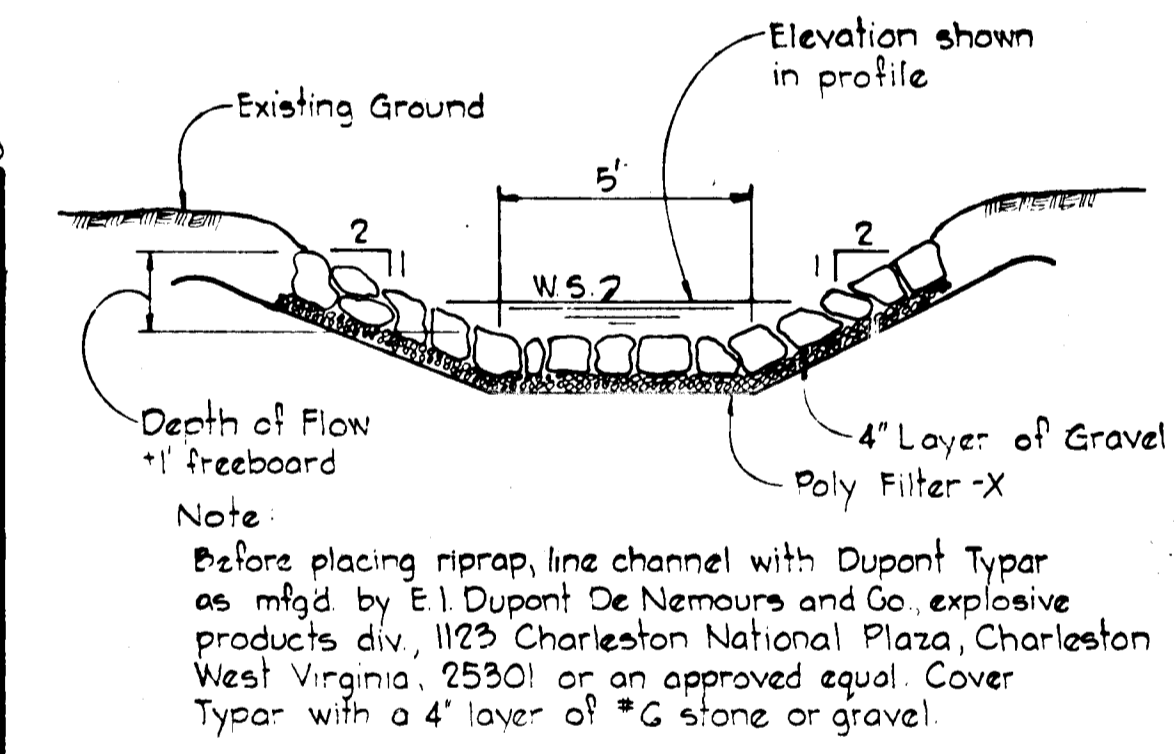
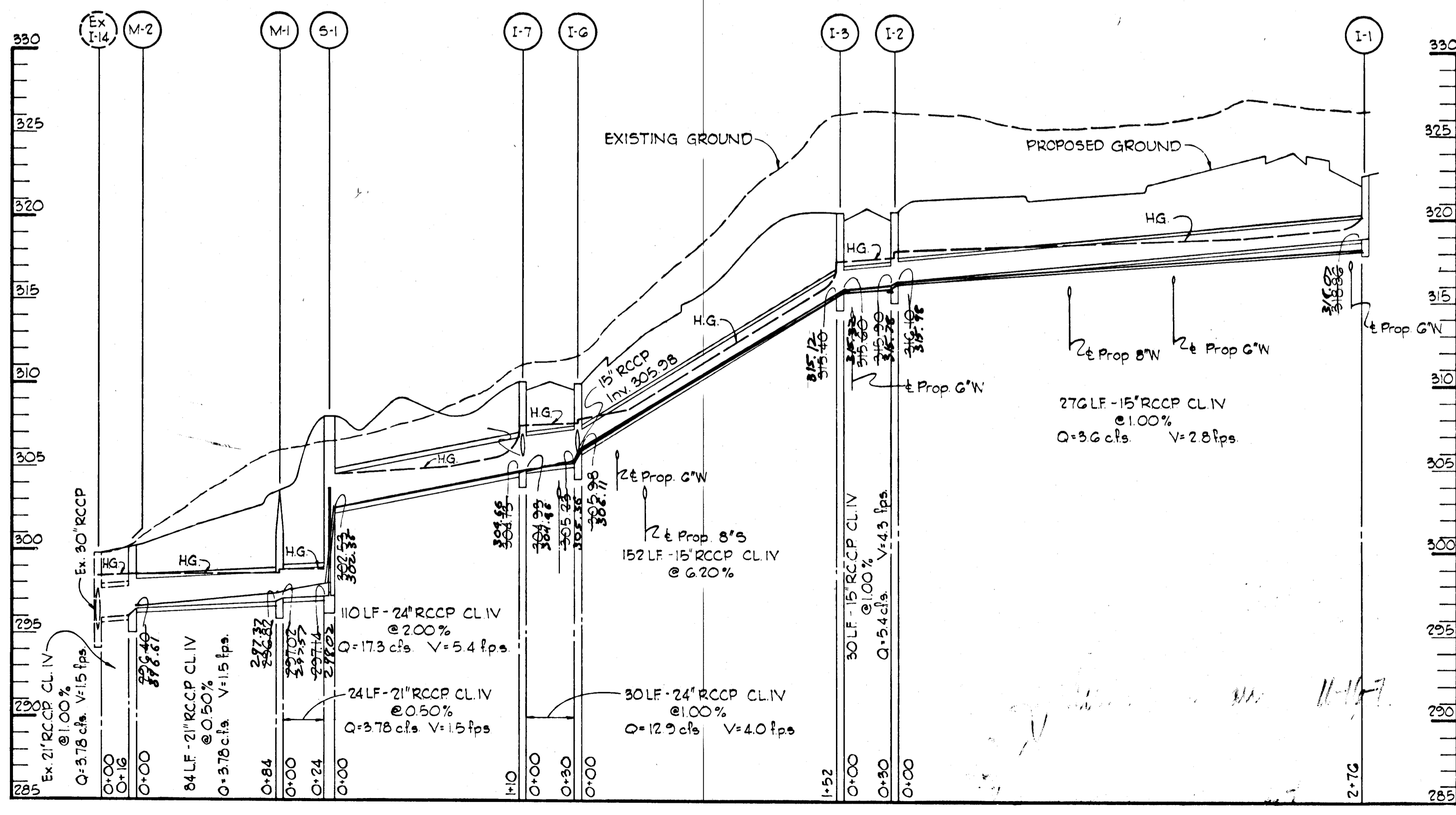
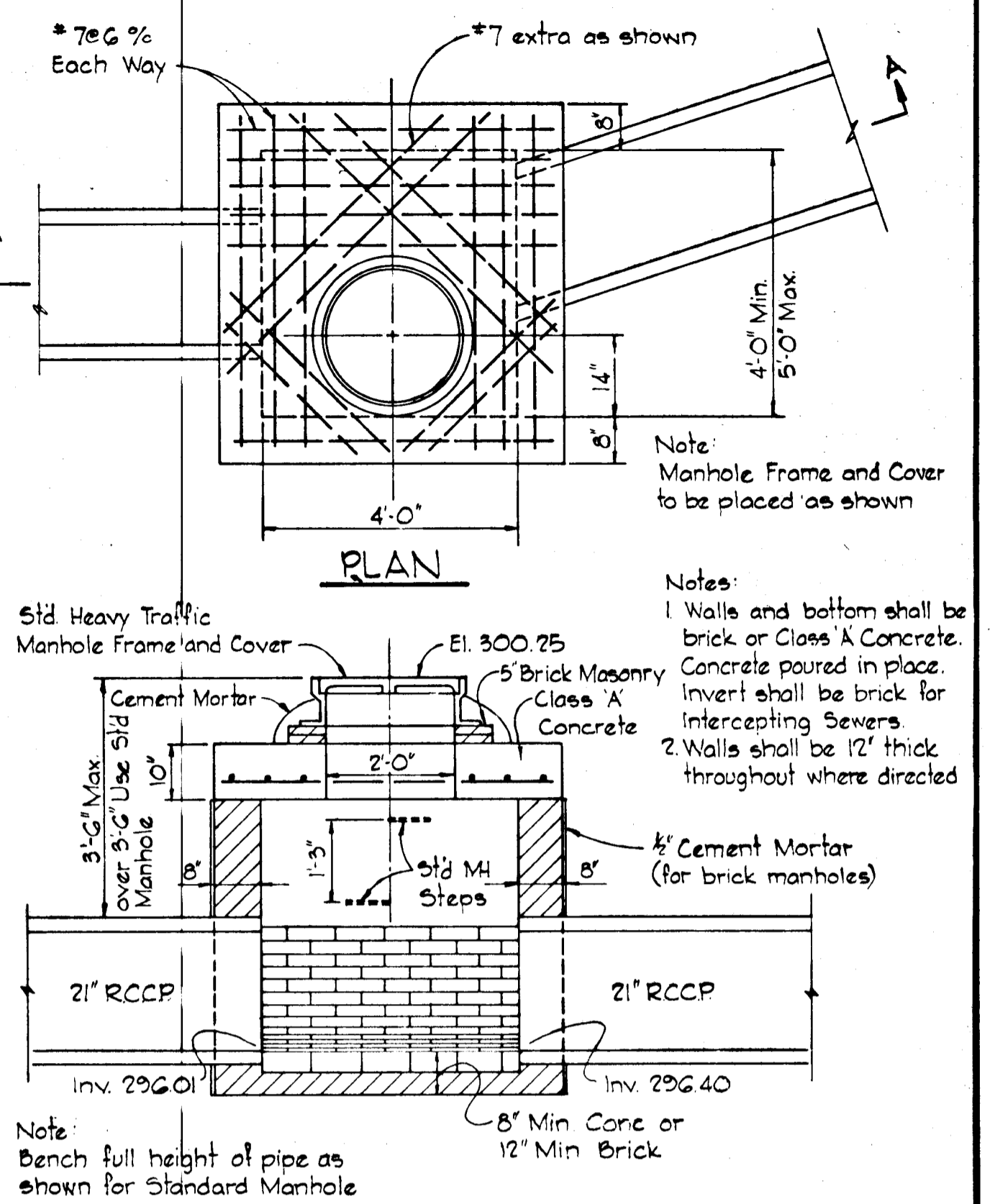
DEPARTMENT OF PUBLIC WORKS
B. P. Weiland 11/2/77
 CHIEF, BUREAU OF HIGHWAYS DATE
 OFFICE OF PLANNING AND ZONING
John Murchman 11-16-77
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE



Date	No	Revision Description
		OWNER AND DEVELOPER TROUTMAN COMMUNITIES Suite 300 - Wilde Lake Village Green COLUMBIA, MARYLAND 21044
		CENTURY ENGINEERING, INC. CONSULTING ENGINEERS - PLANNERS TOWSON, MARYLAND 21204
		AREA VILLAGE OF OWEN BROWN - SECT. 1, AREA 1 A RESUBDIVISION OF PART OF PARCEL F-1 & LOT 283 6th Election District Howard County, Md.
		TITLE DRAINAGE AREA MAP
Des By	F.T.	Scale
Drn By	R.J.W.	Date 2-2-77
Chk By	F.T.	Approved
		Proj No 6076
		Drawing No. 6 OF 9



PROFILES
SCALE: HOR - 1"=50'
VERT - 1"=5'



RIPRAP CHANNEL SECTION
No Scale

DEPARTMENT OF PUBLIC WORKS
J. M. McLeod 11/2/77
CHIEF, BUREAU OF HIGHWAYS DATE

OFFICE OF PLANNING AND ZONING
Richard J. Jones 11-16-77
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

9-2-77
Date
Professional Engr. No.

Date	No	Revision Description
OWNER AND DEVELOPER		
TROUTMAN COMMUNITIES Suite 300 - Wilde Lake Village Green COLUMBIA, MARYLAND 21044		
CENTURY ENGINEERING, INC. CONSULTING ENGINEERS - PLANNERS TOWSON, MARYLAND 21204		
AREA VILLAGE OF OWEN BROWN - SECT. 1, AREA 1 A RESUBDIVISION OF PART OF PARCEL F-1 & LOT 283 6th Election District Howard County, Md.		
TITLE STORM DRAIN PROFILES		
Des By F. D. T.	Scale AS SHOWN	Proj No 6076
Drn By R. J. W.	Date 9-6-77	Drawing No.
Chk By F. D. T.	Approved	7 OF 9

BRUNING 44-132 28586

MATCH LINE THIS SHEET

SEDIMENT CONTROL STRUCTURE SCHEDULE

STRUCT. NO.	DRAINAGE AREA (AC.)	DISTURBED AREA (AC.)	VOLUME (C.Y.)		CLEAN-OUT ELEV.	DEPTH TO CREST	BOTTOM DIMENSIONS
			AVAIL.	REQ.			
S-1	4.92	4.67	345	330	304.5	3'	135' x 16'
S-2	1.11	0.83	75	74	301.5	3'	42' x 8'
S-3	1.07	1.07	72	72	316.7	1.5'	SEE PLAN
S-4	4.57	1.83	328	306	301.0	4'	35' x 48'
S-5	0.41	0.41	28	28	309.0	2'	SEE PLAN
S-6	0.90	0.90	62	60	302.5	3'	34' x 8'
S-7	0.61	0.61	50	41	316.7	4'	10' x 15'
S-8	0.43	0.43	33	32	316.0	4'	10' x 8'

LAKE ELKHORN
NORMAL POOL = 295'
100 YEAR HEADWATER = 299'

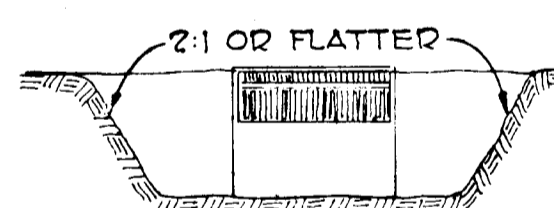
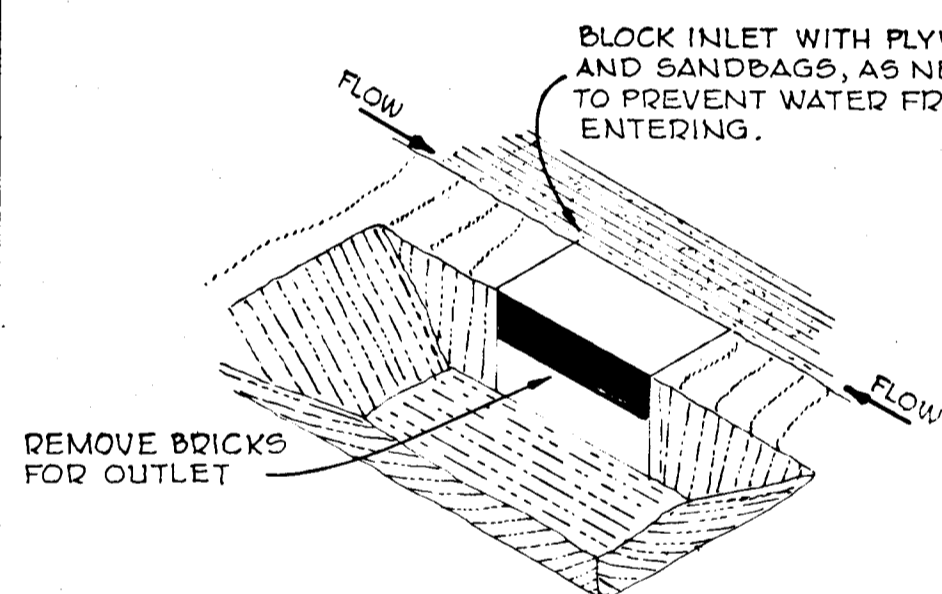
SITE ANALYSIS:

SITE AREA	= 12.0 ACRES
DISTURBED AREA	= 10.8 ACRES
IMPERVIOUS AREA	= 5.9 ACRES
AREA TO BE PERMANENTLY REVEGATED	= 4.9 ACRES

SEQUENCE OF CONSTRUCTION: *

- OBTAIN A GRADING PERMIT.
- INSTALL STABILIZED CONSTRUCTION ENTRANCE.
- INSTALL STRAW BALE DIKES.
- INSTALL STONE OUTLET SEDIMENT TRAPS AND SEED PER TEMP. SEEDING NOTES.
- INSTALL PERIMETER DIKES AND SEED PER TEMP. SEEDING NOTES.
- INSTALL EXCAVATED TRAP.
- BEGIN GRADING OPERATION FOR PHASE I
- AFTER APPROVAL HAS BEEN GRANTED BY THE HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS INSTALL THE STORM DRAIN SYSTEM FROM 1-8 TO LAKE.
- BLOCK INLET 1-1 THRU 1-11 WITH BOARDS, PLYWOOD OR SANDBAGS TO PREVENT SEDIMENT FROM ENTERING INLETS.
- INSTALL INLET TRAPS.
- INSTALL SEDIMENT BASIN AND APPURTENANCES.
- BEGIN GRADING OPERATION FOR PHASE II.

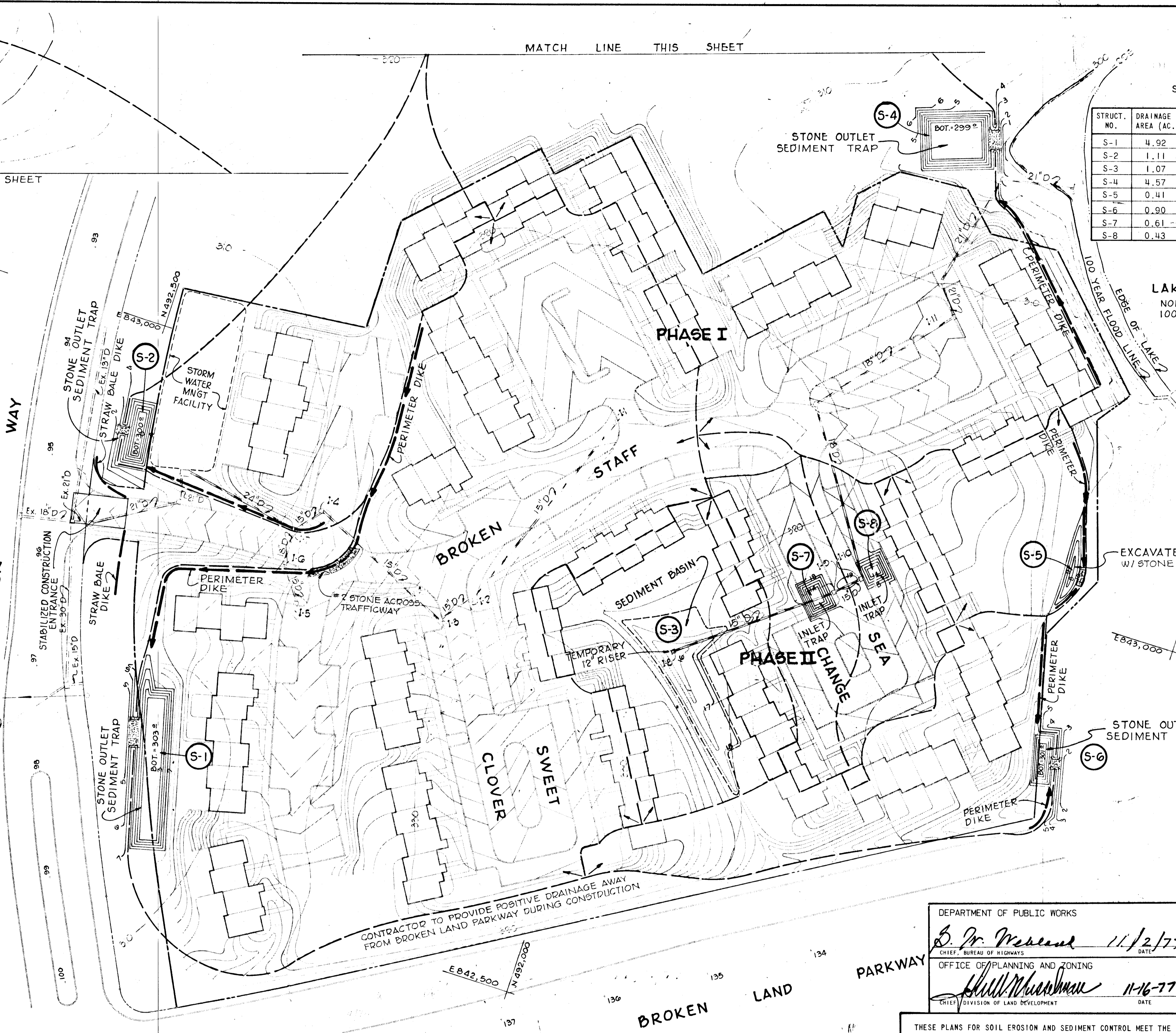
BLOCK INLET WITH PLYWOOD AND SANDBAGS, AS NECESSARY TO PREVENT WATER FROM ENTERING.



NOTE: WHERE CURB IS IN PLACE, PROVIDE A 1' WIDE OPENING IN THE CURB OR USE A SANDBAG DAM TO FORCE WATER OVER THE CURB TO THE TRAP

INLET TRAP
NO SCALE

CRADLEROCK WAY



NOTE: FOR DETAILS SEE SHEET No. 9

Date	No	Revision Description
OWNER AND DEVELOPER		
TROUTMAN COMMUNITIES Suite 300 - Wilde Lake Village Green COLUMBIA, MARYLAND 21044		
CENTURY ENGINEERING, INC. CONSULTING ENGINEERS - PLANNERS TOWSON, MARYLAND 21204		
AREA		
VILLAGE OF OWEN BROWN - SECT. 1, AREA 1 A RESUBDIVISION OF PART OF PARCEL F-1 & LOT 283 6th Election District Howard County, Md.		
TITLE		
SEDIMENT CONTROL PLAN		
Des By	A.W.R.	Scale 1" = 50'
Drn By	J.B.D.	Date 9-6-77
Proj No	6076	Drawing No.
Chk By	Approved	8 OF 9

DEPARTMENT OF PUBLIC WORKS
S. Pr. Weiland 11/2/77
CHIEF, BUREAU OF HIGHWAYS
OFFICE OF PLANNING AND ZONING
Phillip Woodman 11-16-77
CHIEF, DIVISION OF LAND DEVELOPMENT

THESE PLANS FOR SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.
APPROVED: *Hedy Carr* 11-10-77
Howard S.C.D. Date

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SOIL EROSION AND SEDIMENT CONTROL.
C. Wayne Ray 11/10/77
U.S. Soil Conservation Service Date

CERTIFICATION BY THE DEVELOPER:

"I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS OF DEVELOPMENT AND PLANS FOR EROSION AND SEDIMENT CONTROL AND I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY". DEVIATION FROM THIS PLAN WILL NOT BE UNLESS AUTHORIZED BY THE HOWARD SOIL CONSERVATION DISTRICT.

John R. Troutman
Signature of Developer

9/2/77
Date

CERTIFICATION BY THE ENGINEER:

"I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT".

Robert A. James PE 6687
Signature

9/2/77
Date

SEDIMENT CONTROL CONSTRUCTION NOTES

GENERAL NOTES

1. A MINIMUM 24 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY OFFICE OF INSPECTION AND PERMITS PRIOR TO THE START OF ANY CONSTRUCTION (092-2070).
2. ALL SEDIMENT CONTROL STRUCTURES WILL BE INSTALLED IN ACCORDANCE WITH "THE STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS" AS PREPARED BY THE U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE.
3. SITE GRADING WILL BEGIN ONLY AFTER ALL PERIMETER SEDIMENT CONTROL MEASURES HAVE BEEN INSTALLED AND ARE IN A FUNCTIONING CONDITION.
4. ALL DISTURBED AREAS ARE TO BE DRESSED AND STABILIZED ACCORDING TO THE TEMPORARY OR PERMANENT SEEDING SCHEDULES AS SOON AS PROPER WEATHER CONDITIONS EXIST FOR THE ESTABLISHMENT OF A PERMANENT VEGETATIVE COVER.
5. SEDIMENT WILL BE REMOVED FROM TRAPS WHEN THE DEPTH REACHES THE CLEAN-OUT ELEVATION SHOWN ON THE PLANS.
6. FERTILIZER AND LIME RATES MAY BE CHANGED THROUGH AUTHORIZATION BY THE HOWARD SOIL CONSERVATION DISTRICT IF SOIL TESTS DETERMINE A REDUCTION IN THE SPECIFIED RATES IS JUSTIFIED.
7. ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
8. REFERENCES CALLED FOR ON THE SEDIMENT CONTROL CONSTRUCTION PLAN AND DETAILS ARE MADE TO "THE STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS".
9. ALL PIPES IN OPEN TRENCHES DISCHARGING INTO OUT PARCELS SHALL BE PLUGGED WITH PLYWOOD AND SANDBAG BULKHEAD AT THE END OF EACH DAYS WORK.

TEMPORARY SEEDING

AREA TO BE SEEDD SHALL BE RECENTLY LOOSENEED. IF THE GROUND IS PACKED, CRUSTED OR HARD, THE TOP LAYER OF SOIL SHALL BE LOOSENEED BY DISCING, RACKING OR OTHER ACCEPTABLE MEANS.

- A. APPLY 10-20-10 FERTILIZER (OR EQUIVALENT) AT THE RATE OF 600 LBS. PER ACRE OR 15 LBS. PER 1000 SQ. FT.
- B. WHERE SOIL IS KNOWN TO BE HIGHLY ACID, APPLY DOLOMITIC LIMESTONE AT THE RATE OF 1 TON. PER ACRE.
- C. WORK BOTH INTO SOIL AND SEED WITH CYCLONE SEEDER, DRILL, CULTIPAKER SEEJER OR HYDROSEEDER (SLURRY WILL INCLUDE SEED AND FERTILIZER) AT THE RATE OF 40 LBS. PER ACRE OF ITALIAN OR PERENNIAL RYEGRASS.
- D. MULCH WITH UNWEATHERED SMALL GRAIN STRAW AT THE RATE OF 1-1/2 TO 2 TONS. PER ACRE AND ANCHOR WITH A CUTBACK ASPHALT OR EMULSIFIED ASPHALT AT THE RATE OF 5 GAL. PER 1000 SQ. FT.

PERMANENT SEEDING

FINAL STABILIZATION WILL TAKE PLACE AS SOON AS POSSIBLE AS WEATHER CONDITIONS PERMIT, AS FOLLOWS:

- A. APPLY DOLOMITIC LIMESTONE AT THE RATE OF 2 TONS. PER ACRE (ONE TON PER ACRE IF APPLICATION OF TON PER ACRE WAS MADE FOR TEMPORARY SEEDING).
- B. APPLY 0-20-20 FERTILIZER AT THE RATE OF 600 LBS. PER ACRE. HARROW OR DISC LIME AND 0-20-20 FERTILIZER INTO THE SOIL TO A MINIMUM DEPTH OF 3" LAWNS OR HIGH MAINTENANCE AREAS WILL BE DRAGGED AND LEVELED WITH A YORK RAKE. AT THE TIME OF SEEDING APPLY 400 POUNDS OF 38-0-0 UREAFORM FERTILIZER AND 500 LBS. OF 10-20-20 OR EQUIVALENT FERTILIZER PER ACRE.
- C. SEED WITH A MIXTURE OF CERTIFIED "MERION" KENTUCKY BLUEGRASS @ 40 LBS. PER ACRE; COMMON KENTUCKY BLUEGRASS @ 40 LBS. PER ACRE; RED FESCUE, PENNLAWN OR JAMESTOWN @ 20 LBS. PER ACRE.
- D. MULCH WITH UNWEATHERED SMALL GRAIN STRAW AT THE RATE OF 1-1/2 TO 2 TONS. PER ACRE AND ANCHOR WITH A CUTBACK ASPHALT OR EMULSIFIED ASPHALT AT THE RATE OF 5 GAL. PER 1000 SQ. FT.

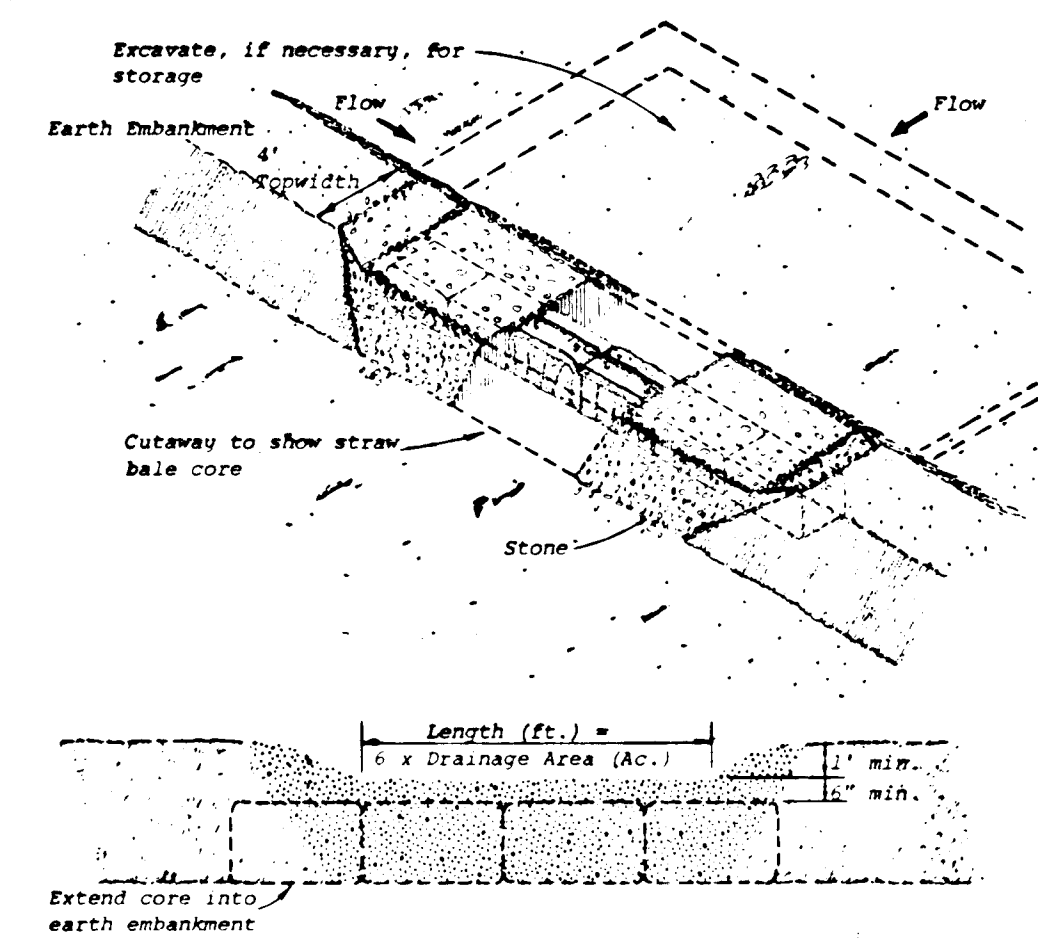
Date	No	Revision Description
OWNER AND DEVELOPER		
TROUTMAN COMMUNITIES Suite 300 - Wilde Lake Village Green COLUMBIA, MARYLAND 21044		

CENTURY ENGINEERING, INC.
CONSULTING ENGINEERS - PLANNERS
TOWSON, MARYLAND 21204

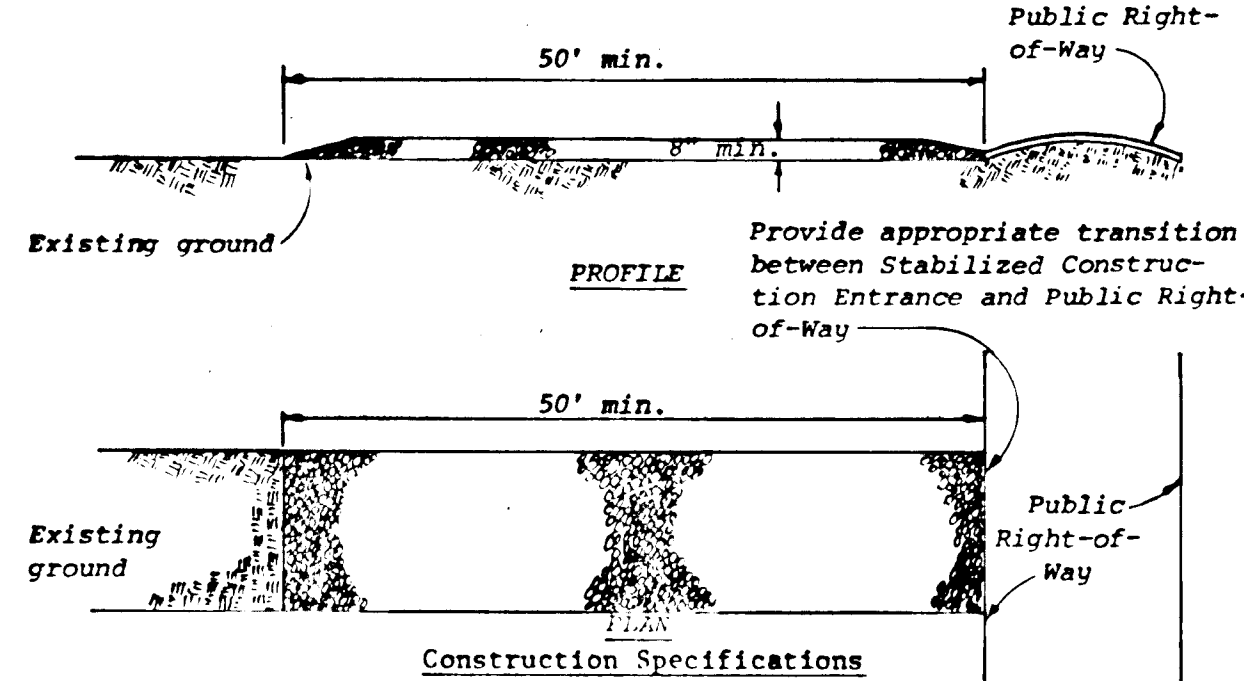
AREA VILLAGE OF OWEN BROWN - SECT 1, AREA 1
A RESUBDIVISION OF PART OF PARCEL F-1 & LOT 283
6th. Election District Howard County, Md.

TITLE
SEDIMENT CONTROL DETAILS

Des By A.W.R.	Scale AS SHOWN	Proj No 6076
Drn By J.B.D.	Date 9-7-77	Drawing No 9 OF 9
Chk By A.W.R.	Approved	



- Construction Specifications**
1. Stone size - Use MSHA size No. 2 (2-1/2" to 1") or AASHTO designation M43, size No. 2 (2-1/2" to 1-1/2"). Use crushed stone.
 2. Length - As effective, but not less than 50 feet.
 3. Thickness - Not less than eight (8) inches.
 4. Width - Not less than full width of all points of ingress or egress.
 5. Washing - When necessary, wheels 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 crushed stone which drains into an approved sediment trap or sediment basin. All sediment shall be prevented from entering any storm drain, ditch, or watercourse through use of sand bags, gravel, boards or other approved methods.
 6. Maintenance - The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto public rights-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or cleanout of any measures used to trap sediment. All sediment spilled, dropped, washed or tracked onto public rights-of-way must be removed immediately.
- NOTE** - Drawings show straw bales used for core. Bales are anchored as per Standard and Specifications for Straw Bale Dike. Other materials (e.g., timber or concrete block) may also be used for core. Firmly anchor all core material to ground.
- Construction Specifications**
1. Area under embankment shall be cleared, grubbed and stripped of any vegetation and root mat. The pool area shall be cleared.
 2. The fill material for the embankment shall be free of roots or other woody vegetation as well as over sized stones, rocks, organic material or other objectionable material. The embankment shall be compacted by traversing with equipment while it is being constructed.
 3. Sediment shall be removed and trap restored to its original dimensions when the sediment has accumulated to 1/2 the design depth of the trap. Removed sediment shall be deposited in a suitable area and in such a manner that it will not erode.
 4. The structure shall be inspected after each rain and repairs made as needed.
 5. Construction operations shall be carried out in such a manner that erosion and water pollution is minimized.
 6. The structure shall be removed and the area stabilized when the drainage area has been properly stabilized.
 7. All cut and fill slopes shall be 2:1 or flatter.
 8. The crushed stone used in the outlet shall meet AASHTO designation M43, Size No. 2 or 24 or its equivalent such as MSHA No. 2. Gravel, meeting the above gradation, may be used if crushed stone is not available. Crusher run is not acceptable.
- * Drainage area less than 5 acres.



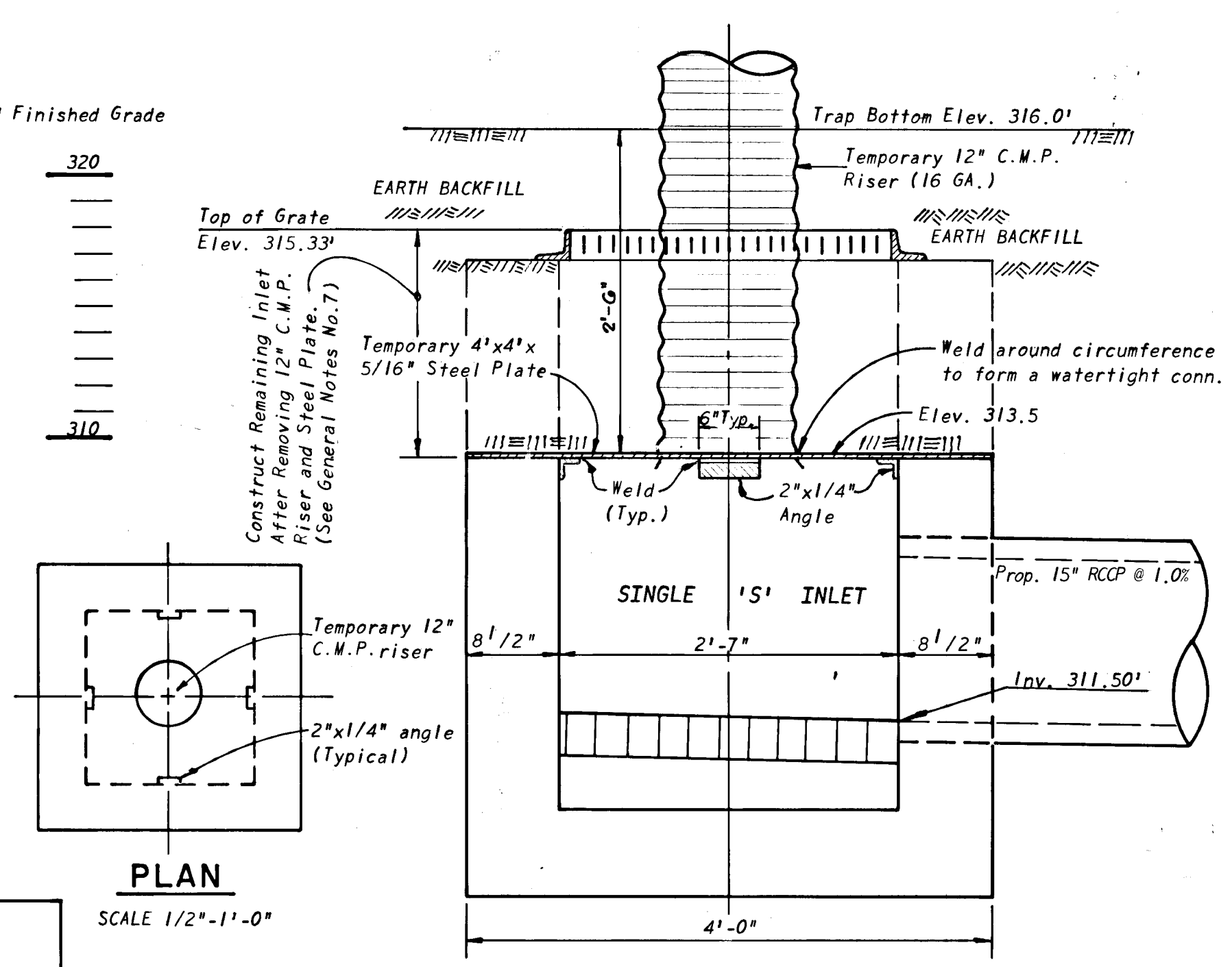
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STABILIZED CONSTRUCTION ENTRANCE

NO SCALE

STONE OUTLET SEDIMENT TRAP

NO SCALE



RISER BASE DETAIL AT I-8

SCALE: 1" = 1'-0"

DEPARTMENT OF PUBLIC WORKS
S. M. McLeod 11/2/77
CHIEF, BUREAU OF HIGHWAYS
OFFICE OF PLANNING AND ZONING
Phillip Morrison 11-16-77
CHIEF, DIVISION OF LAND DEVELOPMENT

CERTIFICATION BY THE ENGINEER:
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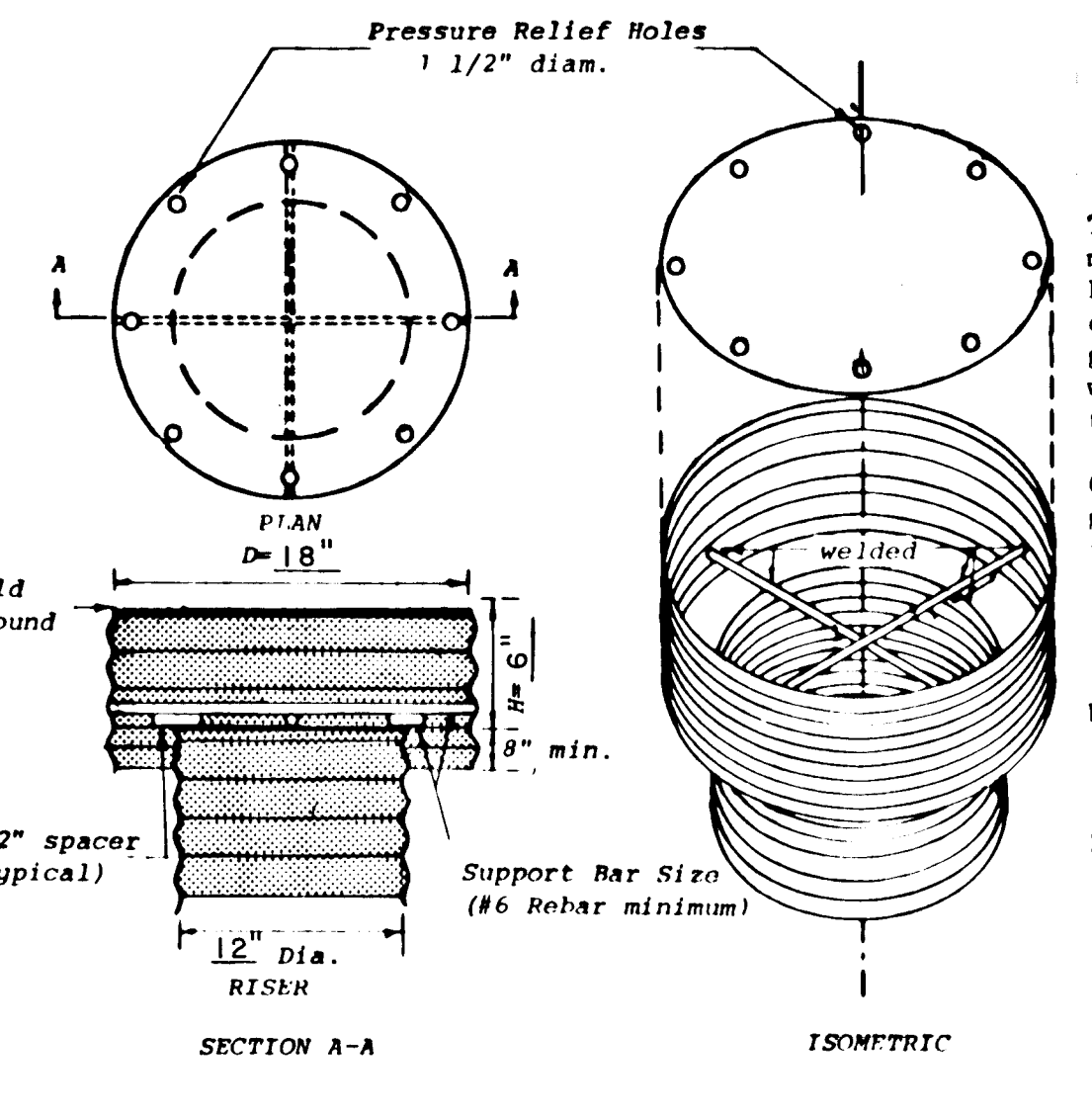
Robert G. Jones PE 6687
Signature
Date 02-77

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

APPROVED: *Andy Cap* 11-10-77
Howard S.C.D. Date

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SOIL EROSION AND SEDIMENT CONTROL.

C. Wayne Ray 11/10/77
U.S. Soil Conservation Service Date



ANTI-VORTEX DEVICE

NO SCALE

- Top is 16 gauge corrugated metal or 1/8" steel plate. Pressure relief holes may be omitted, if ends of corrugations are left fully open when corrugated top is welded to cylinder.
- Cylinder is 16 gauge corrugated metal pipe or fabricated from 1/8" steel plate.
- Notes:**
- 1) The cylinder must be firmly fastened to the top of the riser.
 - 2) Support bars are welded to the top of the riser or attached by straps bolted to top of riser.

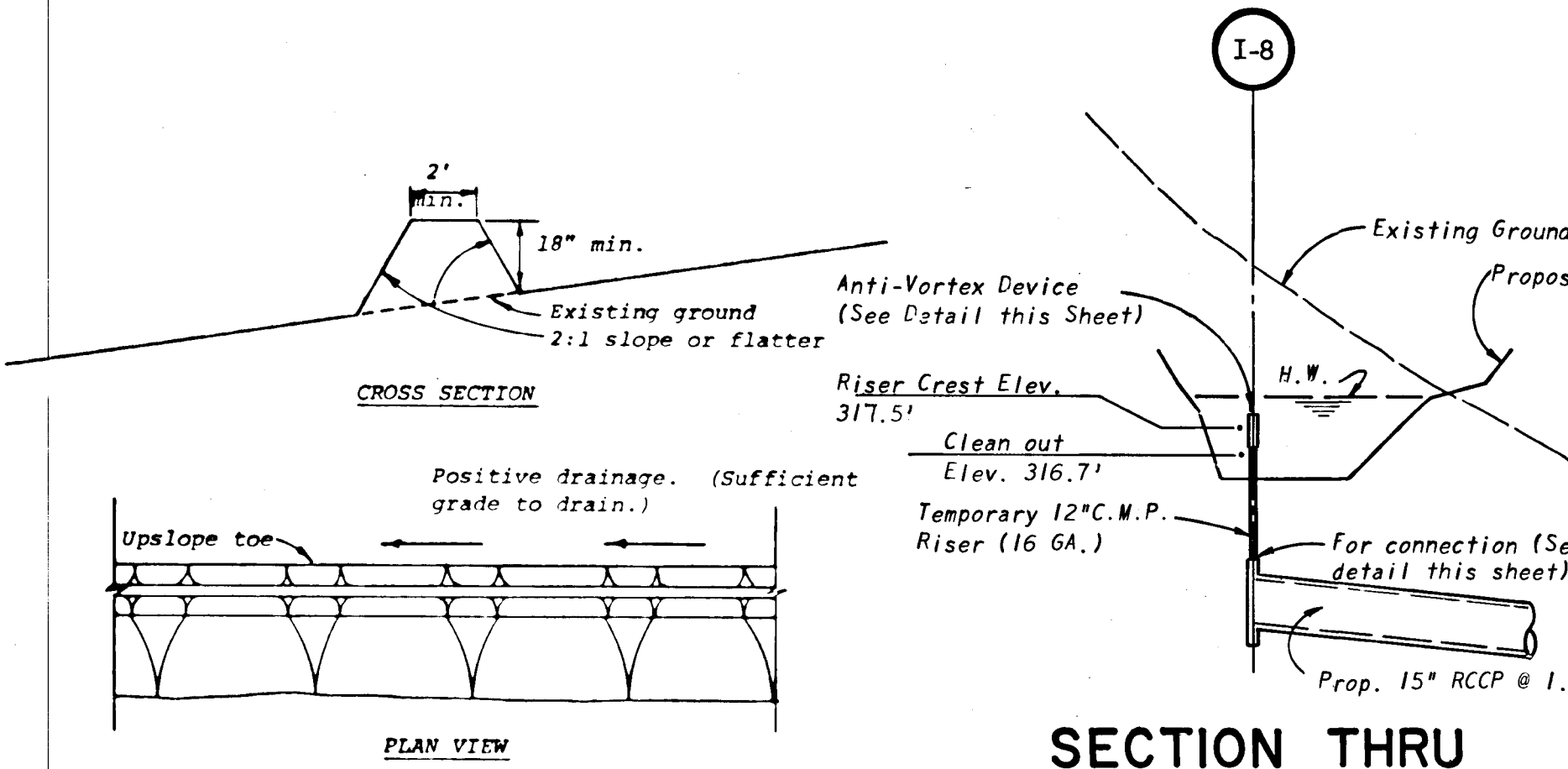
- Notes:**
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 - 2) Support bars are welded to the top of the riser or attached by straps bolted to top of riser.

Standard Symbol

SCE

STABILIZED CONSTRUCTION ENTRANCE

NO SCALE



SECTION THRU SEDIMENT BASIN

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

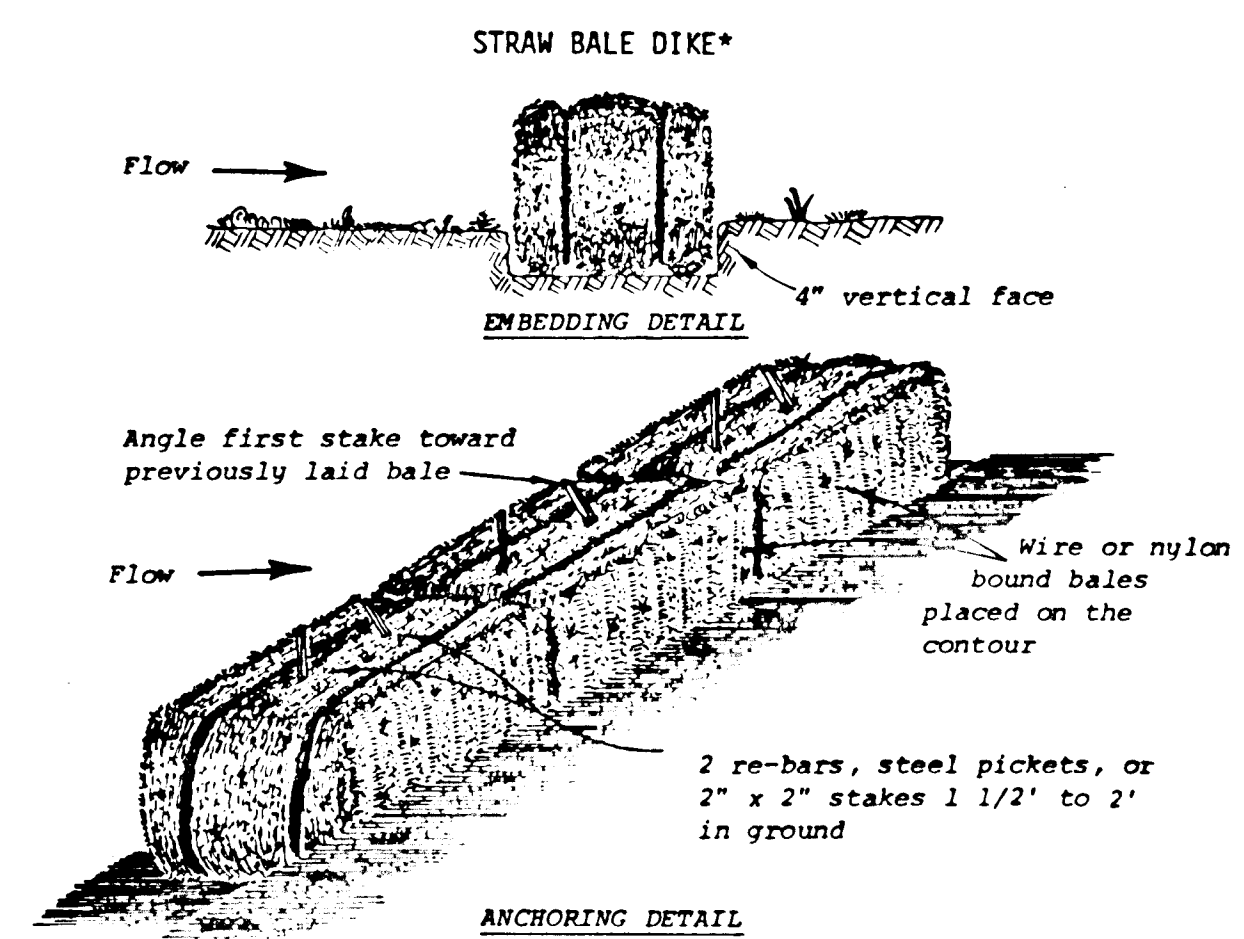
1. All dikes shall be machine compacted.
2. All perimeter dikes shall have positive drainage to an outlet.
3. A. Diverted runoff from a protected or stabilized upland area shall outlet directly onto an undisturbed stabilized area or into a level spreader or grade stabilization structure.
- B. Diverted runoff from a disturbed or exposed upland area shall be conveyed to a sediment trapping device such as sediment trap or a sediment basin or to an area protected by any of these practices.
4. Stabilization, when required, shall be done in accordance with Standard and Specifications for Grassed Waterway. The minimum area to be stabilized shall be the channel flow area.
5. Periodic inspection and required maintenance shall be provided.

Standard Symbol PD

PERIMETER DIKE

NO SCALE

* Drainage area less than 5 acres



CONSTRUCTION SPECIFICATIONS

1. Bales shall be placed in a row with ends tightly abutting the adjacent bales.
2. Each bale shall be embedded in the soil a minimum of 4".
3. Bales shall be securely anchored in place by stakes or re-bars driven through the bales. The first stake in each bale shall be angled toward previously laid bale to force bales together.
4. Inspection shall be frequent and repair or replacement shall be made promptly as needed.
5. Bales shall be removed when they have served their usefulness so as not to block or impede storm flow or drainage.

Standard Symbol SBD

STRAW BALE DIKE

NO SCALE

* Drainage area less than 1/2 acre.

CERTIFICATION BY THE DEVELOPER:
"I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS OF DEVELOPMENT AND PLANS FOR EROSION AND SEDIMENT CONTROL AND I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY". DEVIATION FROM THIS PLAN WILL NOT BE UNLESS AUTHORIZED BY THE HOWARD SOIL CONSERVATION DISTRICT.

John L. Trotman 0/2/77
Signature of Developer Date

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Signature
Date 02-77