

SEDIMENT CONTROL NOTES

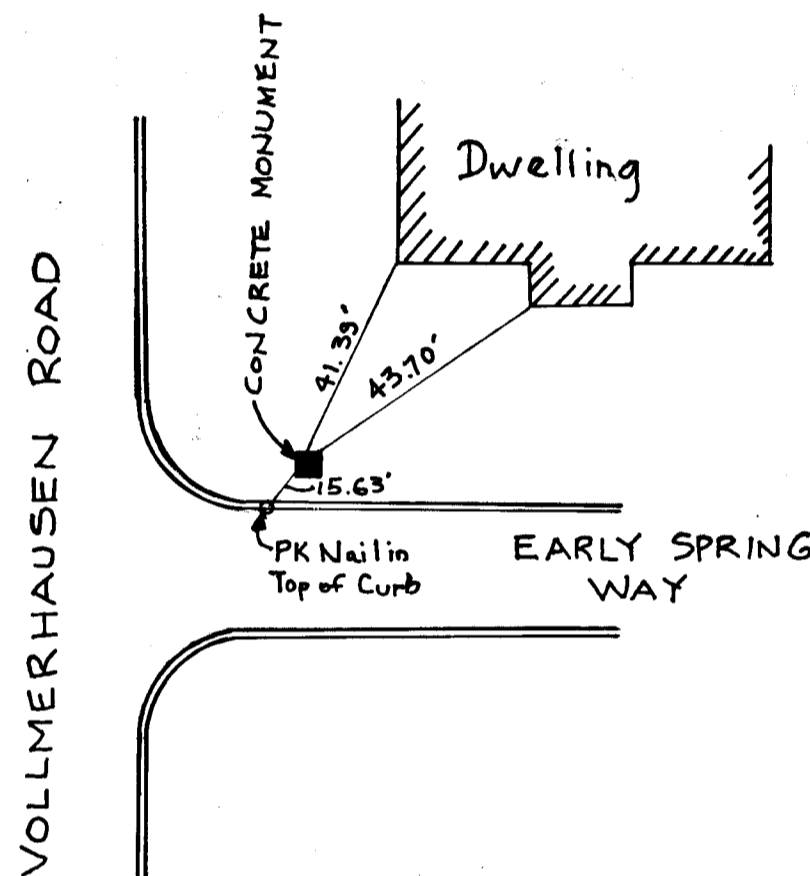
1. See "Sequence of Construction" this sheet.
2. The sediment control measures shall be constructed as shown on these drawings.
3. All diversion dikes shall be seeded as specified in notes 4 and 5. All other surfaces to be permanently seeded. See specifications this sheet.
4. The diversion dikes shall be hydroseeded as follows:
 - a. Ground Limestone (50#/1000#)
 - b. Fertilizer 10-10-10 (25#/1000#)
 - c. Seed Italian Ryegrass (40#/Acre)
5. Mulch with straw at the rate of 50#/Acre or one ton/acre. Anchor with asphalt at the rate of 400 gallons/acre.

SEQUENCE OF CONSTRUCTION

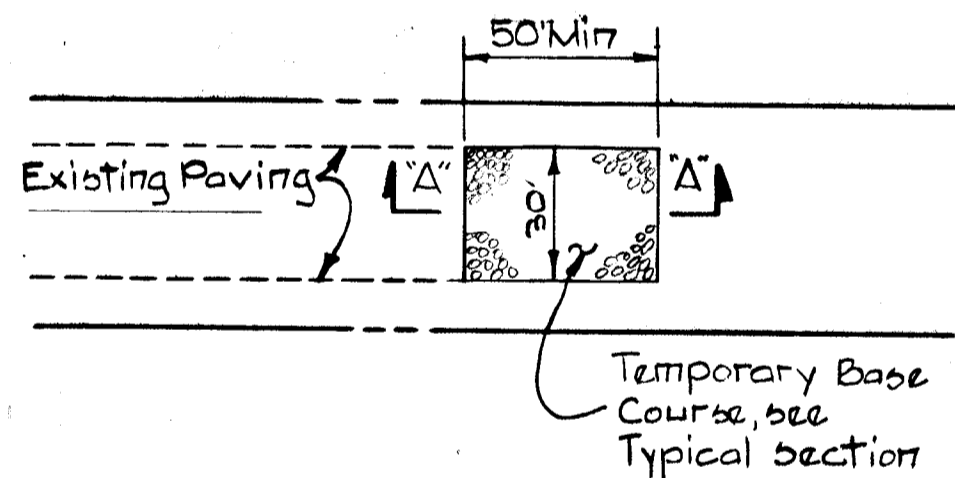
1. Obtain Grading Permit.
2. Install stabilized construction entrance at Early Spring Way.
3. Clear and grub wooded areas to construct sediment control facilities and place new 21" R.C.P. between existing I-B & I-C.
4. Strip roads and construct sediment control facilities.
5. Rough grade road and lots.
6. Install storm drain system.
7. Construct all utilities.
8. Fine grade roads and construct curb and gutter.
9. Pave roads and seed all disturbed areas.
10. Install 18" R.C.P. class IV between inlets I-B & I-C and remove all sediment control devices.

PERMANENT SEEDING

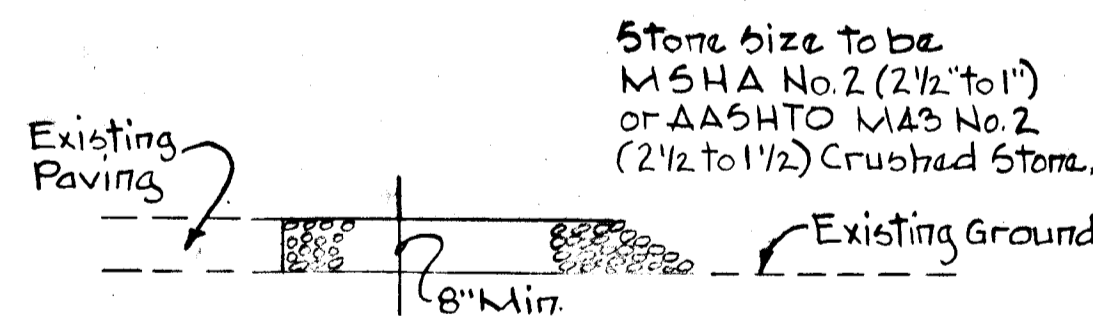
Lime - 2 tons/acre agricultural ground limestone.
 Fertilizer - 1000 lbs/acre (10-10-10)
 Seeding - 100 lbs/acre of the following:
 20% Kentucky Blue Grass, 20% Marion Blue Grass
 55% Creeping Red Fescue, 5% Red Top
 Mulch Required - Mulch area with straw at 75 lbs./1000# or 1.5 tons/acre. Anchor with asphalt at the rate of 400 gallons/acre.
 Stabilization of slopes steeper than 3:1 shall be planted with crown vetch including 15 lbs./acre (0.34 lbs./1000#), Kentucky 31 Tall Fescue 40 lbs./acre (1 lb./1000#).



MONUMENT RECOVERY SKETCH
No Scale



PLAN
Scale: 1"=50'



SECTION "A-A"

STABILIZED CONSTRUCTION ENTRANCE DETAIL

Scale As Shown

COLUMBIA

HOWARD COUNTY, MARYLAND

6TH ELECTION DISTRICT

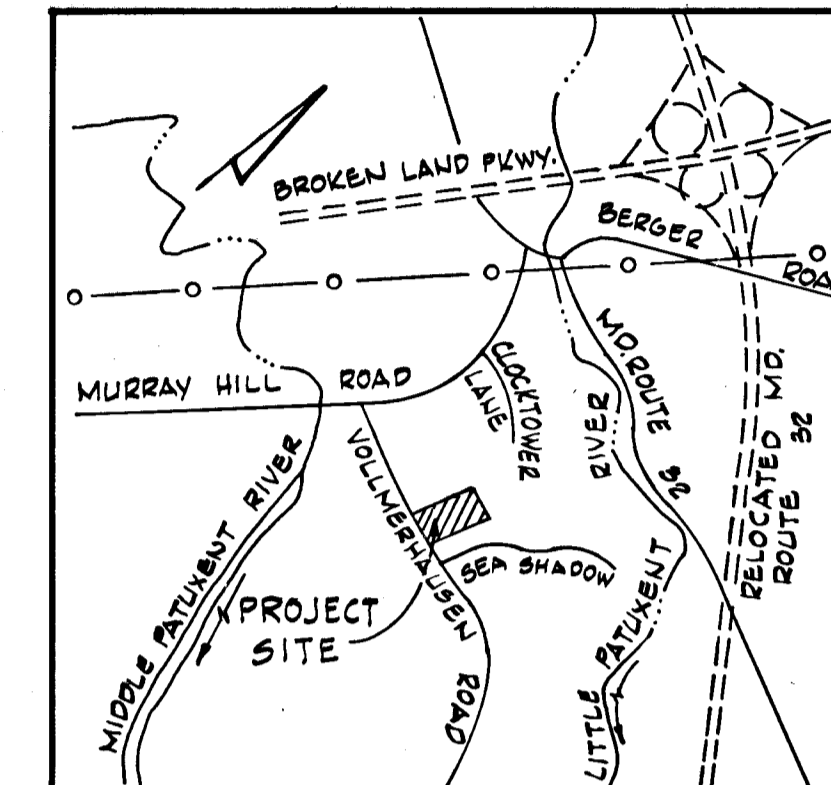
ROAD CONSTRUCTION PLANS

VILLAGE OF KINGS CONTRIVANCE

SECTION 3 AREA I RESUBDIVISION OF A PORTION

OF PARCEL "E"

LOT E-1 THRU LOT E-83



VICINITY MAP

Scale: 1"=2000'

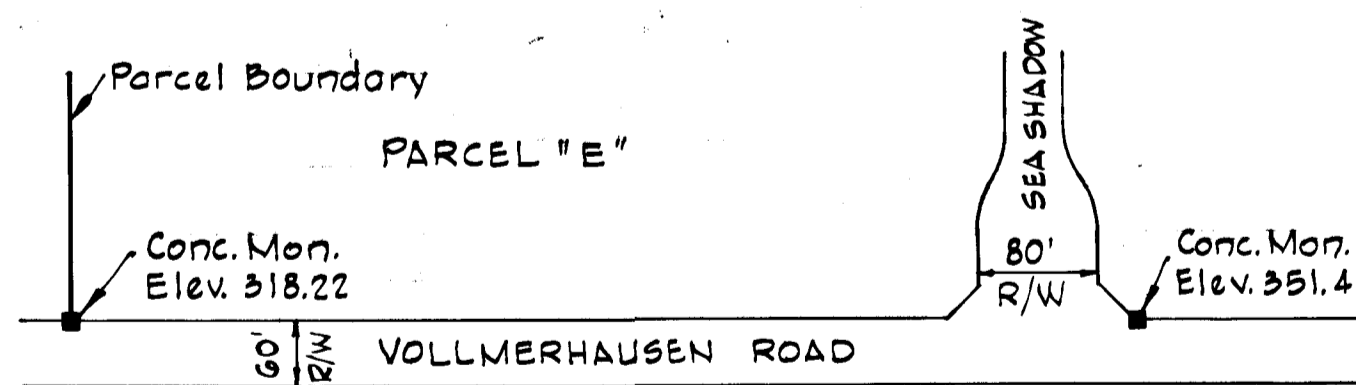
GENERAL NOTES

1. All work shall be done in accordance with Howard County Road Construction Code and Standard Specifications.
2. All utility companies must be notified 24 hours in advance of any construction.
3. Secondary residential streets are designed for 30 mph traffic speed in accordance with AASHTO Standards.
4. All inlets shall be Howard County Standard unless otherwise shown. All "A" inlets shall be depressed.
5. Storm drain trenches within road rights-of-ways shall be backfilled and compacted in accordance with Howard County Road Code.
6. Any damage to public rights-of-ways or paving will be corrected at the developer's expense.
7. 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.
8. The Contractor shall test pit existing utilities where directed by the Engineer, a minimum of two weeks in advance of any construction.
9. Contractor to notify the Howard County Dept. of Inspections and Permits at least 3 days before starting work shown on these drawings. Telephone 892-2480.

STORM WATER MANAGEMENT

Storm Water Management for Parcel "E" has been provided in Pond #2 and Pond #3. See Road Construction Drawings for Village of Kings Contrivance Section 3 Area I, Sheet 26 of 27 File F-7B-203C and Sheet 35 of 37 File 79-44C for Pond #2 and Pond #3 respectively.

SHEET INDEX	
NO.	DESCRIPTION
1	COVER SHEET
2	PLAN AND PROFILE-EARLY SPRING WAY
3	DRAINAGE AREA MAP-STORM DRAIN PROFILES
4	STANDARD DETAILS
5	SEDIMENT CONTROL



BENCHMARKS AND REFERENCES
No Scale

CERTIFICATION BY THE DEVELOPER

"I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN 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."

Lee B. Rosenberg
1-20-81
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."

Kenneth A. McCord
1-19-81
DATE
KENNETH A. MCCORD, P.E. NO. 1974

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

APPROVED: [Signature]
HOWARD S.C.D. DATE

REVIEWED FOR HOWARD S.C.D. AND MEETS TECHNICAL REQUIREMENTS

[Signature]
U.S. SOIL CONSERVATION SERVICE DATE

RESPONSIBLE PERSONNEL CERTIFICATION

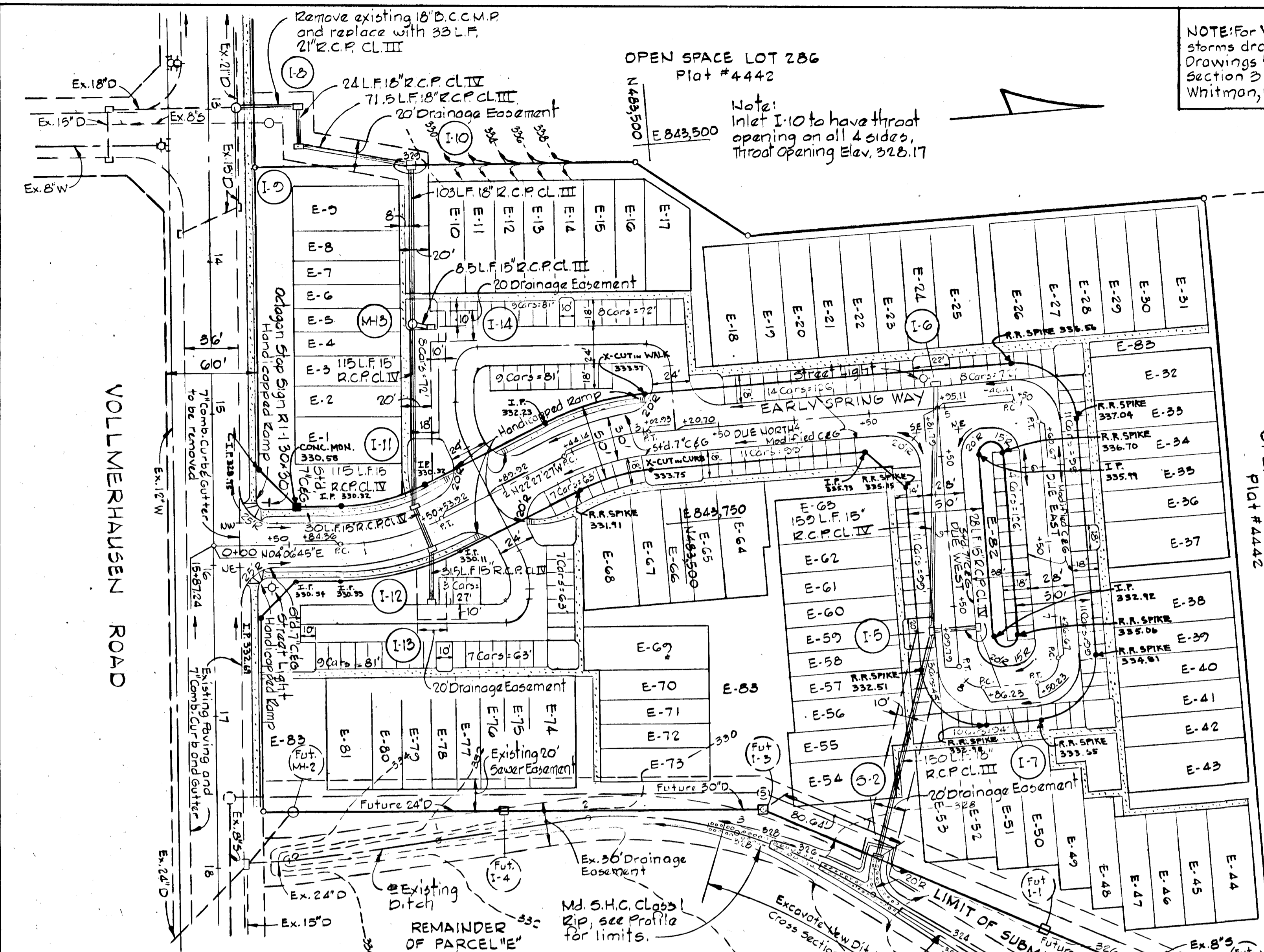
"I hereby certify that any responsible personnel involved in the construction project will have a certificate of attendance at a Department of Natural Resources approved training program for the control of sediment and erosion before beginning the project."

Lee B. Rosenberg
1-20-81
DATE

DEVELOPER
HOWARD HOMES BUILDING CO., INC.
P.O. BOX 802
COLUMBIA, MARYLAND

WHITMAN, REQUARDT & ASSOCIATES
ENGINEERS
BALTIMORE, MARYLAND
Kenneth A. McCord
KENNETH A. MCCORD
Registered Engineer
No. 1974

NOTE: For Vollmerhausen Road profile and storm drains, see Road Construction Drawings for the Village of Kings Contrivance Section 3 Area 1 F-78-203C by Whitman, Requardt & Associates.



STORM DRAIN STRUCTURE SCHEDULE

NO.	TYPE	TOP ELEV.	INV. IN	INV. OUT	LOCATION
I-5	Standard A Inlet, width 2.5'	322.18	327.90	327.65	inlet 15.0' left of Sta. 2+25
I-6	Standard A Inlet, width 2.5'	325.47	321.47	321.47	inlet 16.0' left of Sta. 4+25.11
I-7	Standard A Inlet, width 2.5'	322.18	326.44	326.44	inlet 15.0' right of Sta. 2+25
I-8	Standard A Inlet, width 2.5'	322.18	312.48	311.44	inlet 25.5' left of Sta. 1+00
I-10	Type "D" Inlet	322.18	320.44	320.22	See Plan and Profile
I-11	Standard A Inlet, width 2.5'	322.18	324.97	324.78	inlet 16.0' left of Sta. 1+40
I-12	Standard A Inlet, width 2.5'	322.18	326.74	326.54	inlet 16.0' right of Sta. 1+40
I-13	Standard A Inlet, width 2.5'	322.18	327.24	327.04	See Plan and Profile
I-14	Standard A Inlet, width 2.5'	322.18	325.44	325.44	See Plan and Profile
I-15	Standard Manhole	322.18	322.76	322.76	See Plan and Profile
I-16	Temporary End Support Wall	322.18	322.04	322.04	See Plan and Profile
I-17	Standard A Inlet, width 2.5'	322.18	314.78	314.57	inlet 25.5' right of Sta. 12+27.84

AS-BUILT SURVEY DATA BY KENNETH A. McCORD P.E. NO. 1974. SIGNED, SEALED & DATED MARCH 24, 1981.

Rev. Date	Rev. No.	Revision Description

COLUMBIA
 6TH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 OWNER AND DEVELOPER
 HOWARD HOMES BUILDING CO., INC.

PROJECT AREA
 VILLAGE OF KINGS CONTRIVANCE
 SECTION 3 AREA 1 LOTS E-1 THRU E-55
 A RESUBDIVISION OF A PORTION OF PARCEL "E"

**PLAN AND PROFILE
 EARLY SPRING WAY**

SCALE: AS SHOWN DATE

WHITMAN, REQUARDT & ASSOCIATES
 ENGINEERS
 BALTIMORE, MARYLAND 21202

Kenneth A. McCord
 KENNETH A. McCORD
 Registered Engineer
 No. 1974

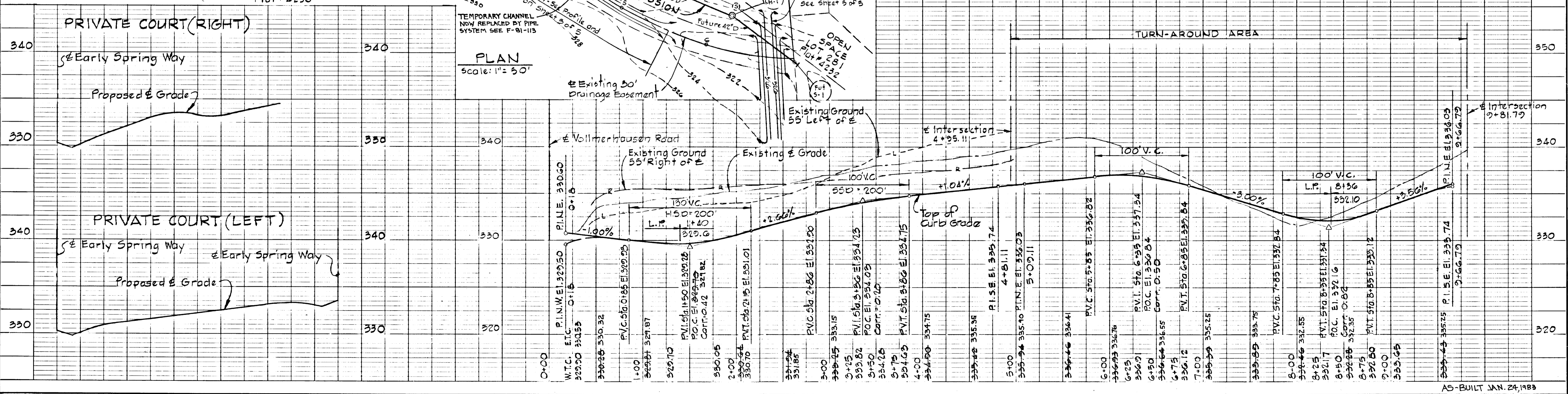
- Note:
 1. Standard A-3 Inlet, Howard County Dwg. G4A, Page 110A.
 2. Standard Class C, Type D Inlet, Howard County Dwg. G4C, Page 110C.
 3. Standard Manhole, Howard County Dwg. 103, Page 153.
 4. For storm drain profiles see sheet 2 of 5.

NOTE:
 PAVING WIDTHS = 28' AND 30'
 LENGTH OF ROAD = 982'
 NO SEWER MH IN ROAD R/W

- LEGEND
 [Symbol] Publicly Maintained Roadway
 [Symbol] Stop Sign RI-1 30" x 30"
 [Symbol] Sidewalk
 --- Existing Contour
 - - - Proposed Contour

CURVE DATA

PC. 7+26.67 TO PT. 7+50.23 $\Delta = 90^{\circ}00'00''$ T = 15.00' R = 150.00' Chd. = 21.21' L = 23.56' Chd. Brg. = $545^{\circ}00'00''$ E	PC. 7+86.23 TO PT. 8+09.79 $\Delta = 90^{\circ}00'00''$ T = 15.00' R = 150.00' Chd. = 21.21' L = 23.56' Chd. Brg. = $545^{\circ}00'00''$ W
PC. 0+84.36 TO PT. 1+53.92 $\Delta = 26^{\circ}34'10''$ T = 35.42' R = 150.00' Chd. = 68.94' L = 69.56' Chd. Brg. = $N09^{\circ}10'22''$ W	PC. 2+44.14 TO PT. 3+02.93 $\Delta = 22^{\circ}27'27''$ T = 29.78' R = 150.00' Chd. = 58.42' L = 58.79' Chd. Brg. = $N11^{\circ}13'44''$ W
PC. 5+26.11 TO PT. 5+69.67 $\Delta = 90^{\circ}00'00''$ T = 15.00' R = 150.00' Chd. = 21.21' L = 23.56' Chd. Brg. = $N45^{\circ}00'00''$ E	



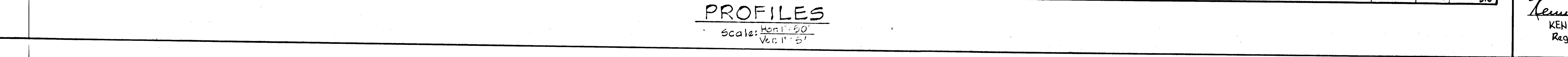
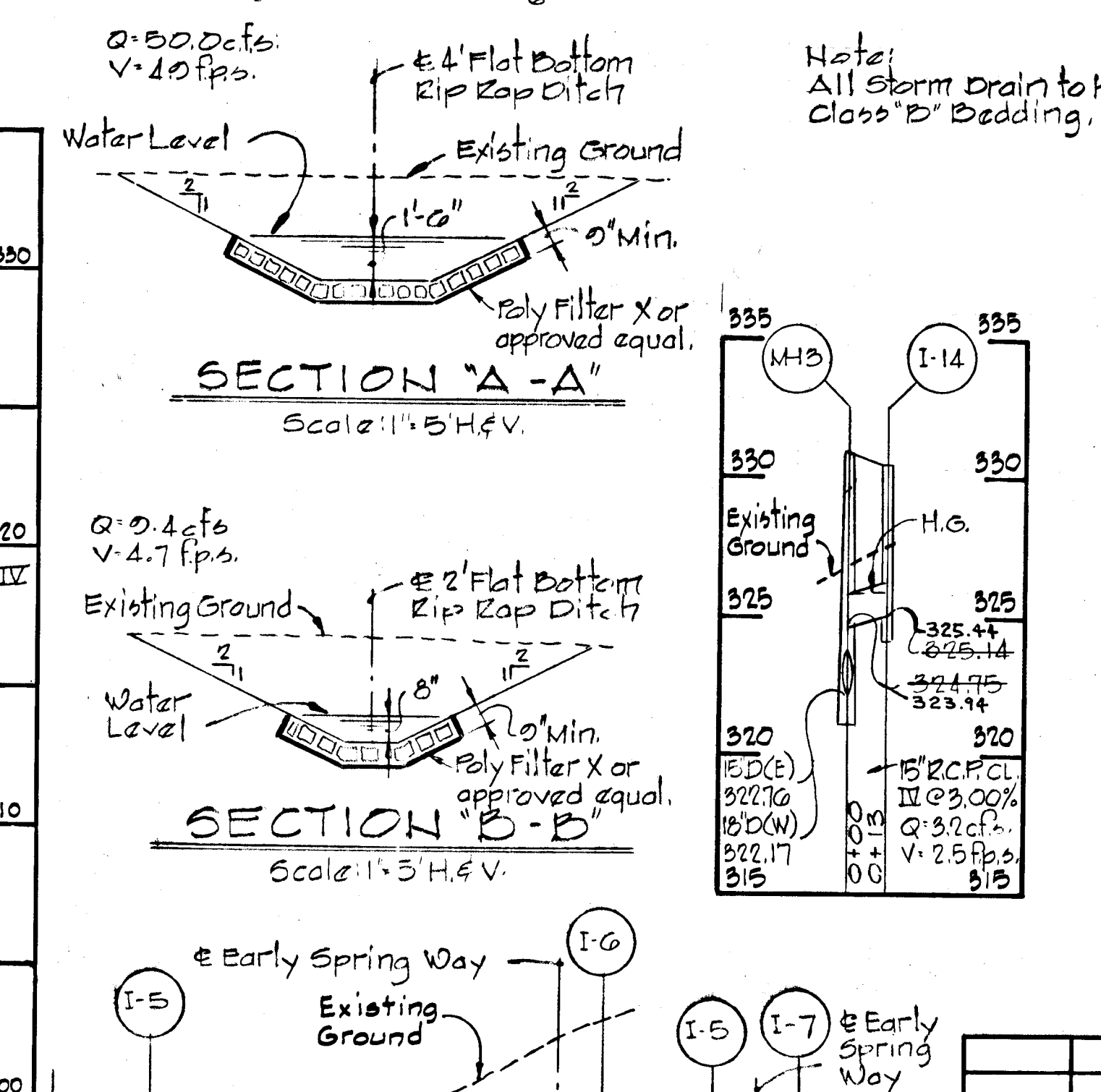
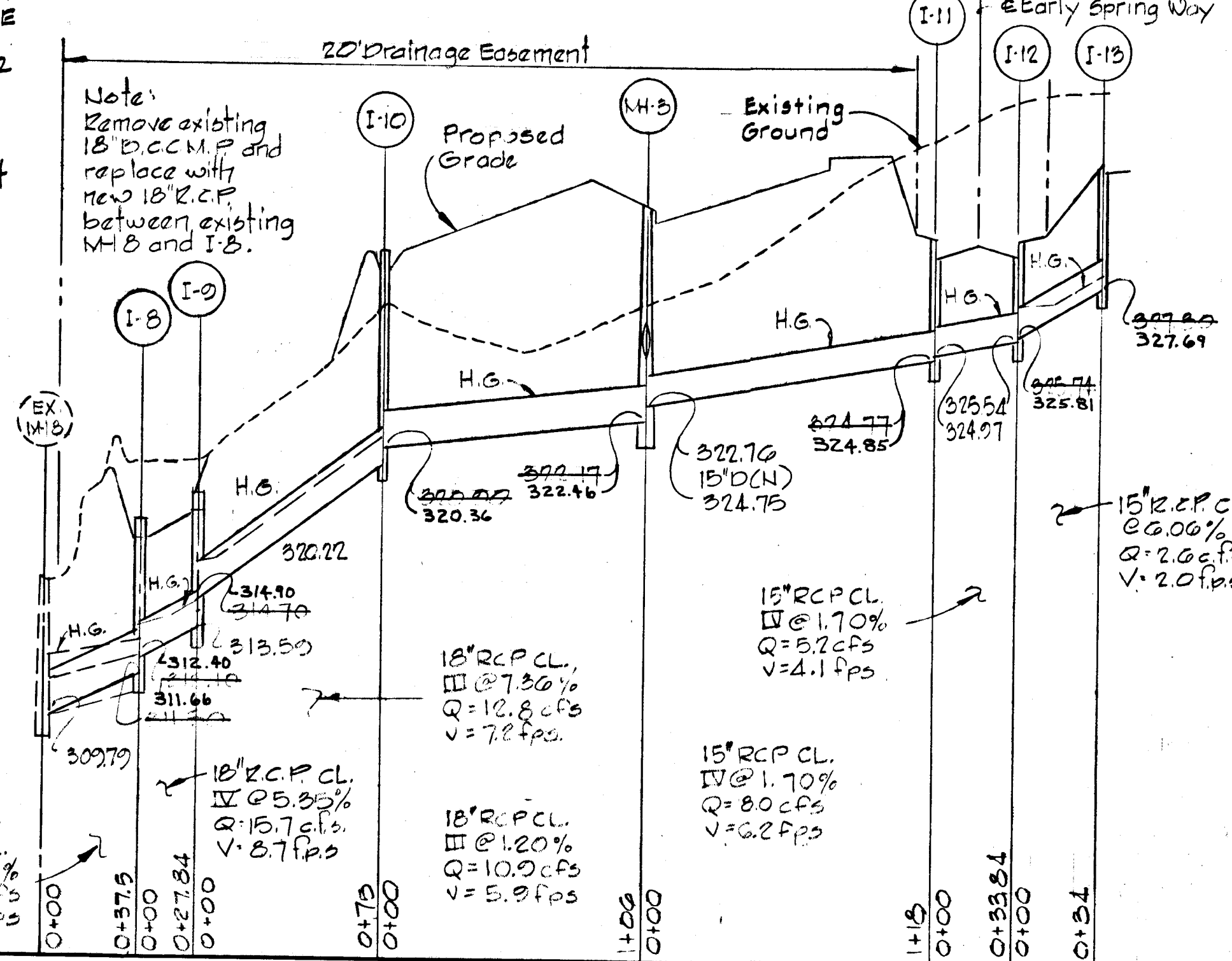
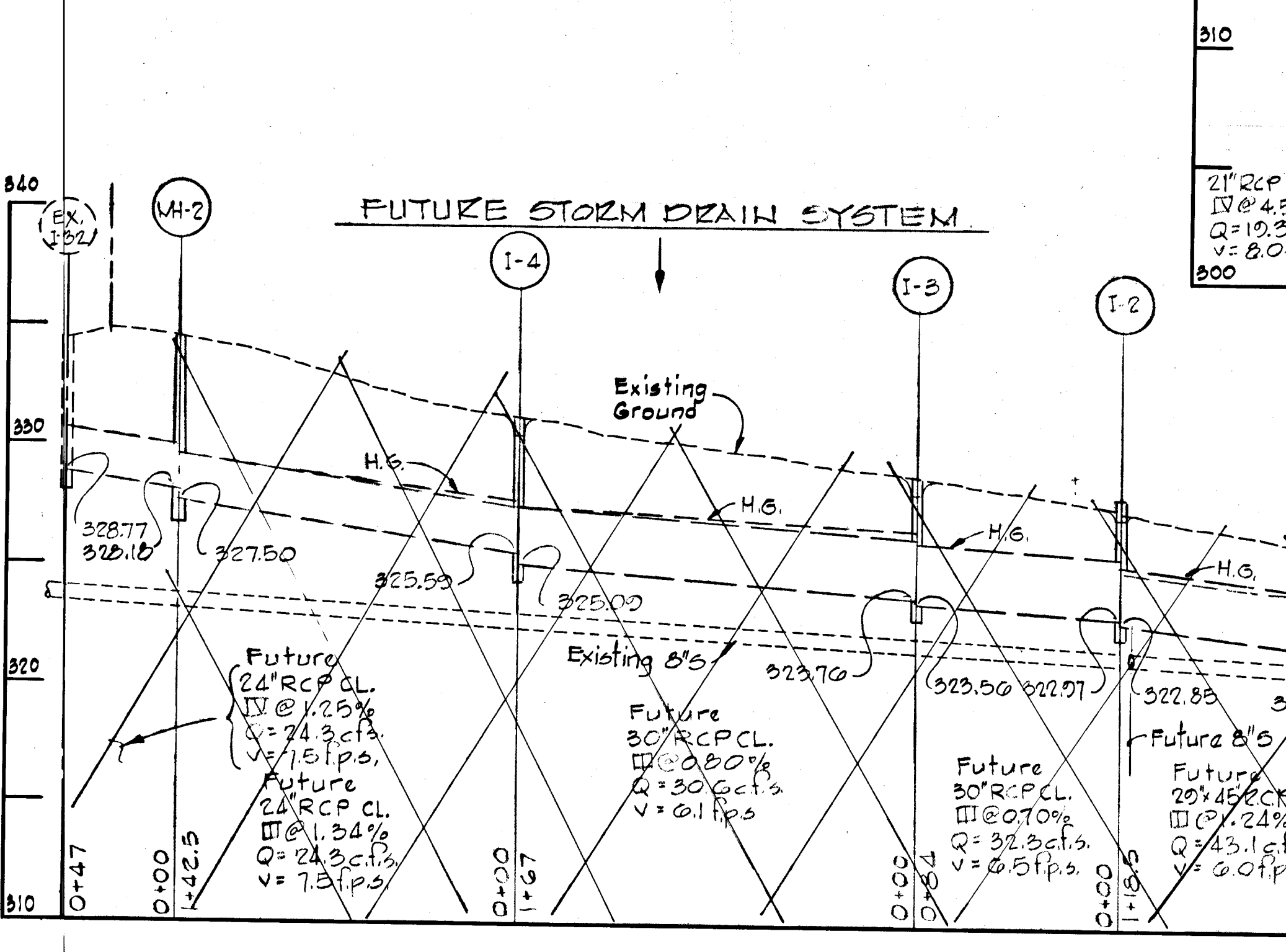
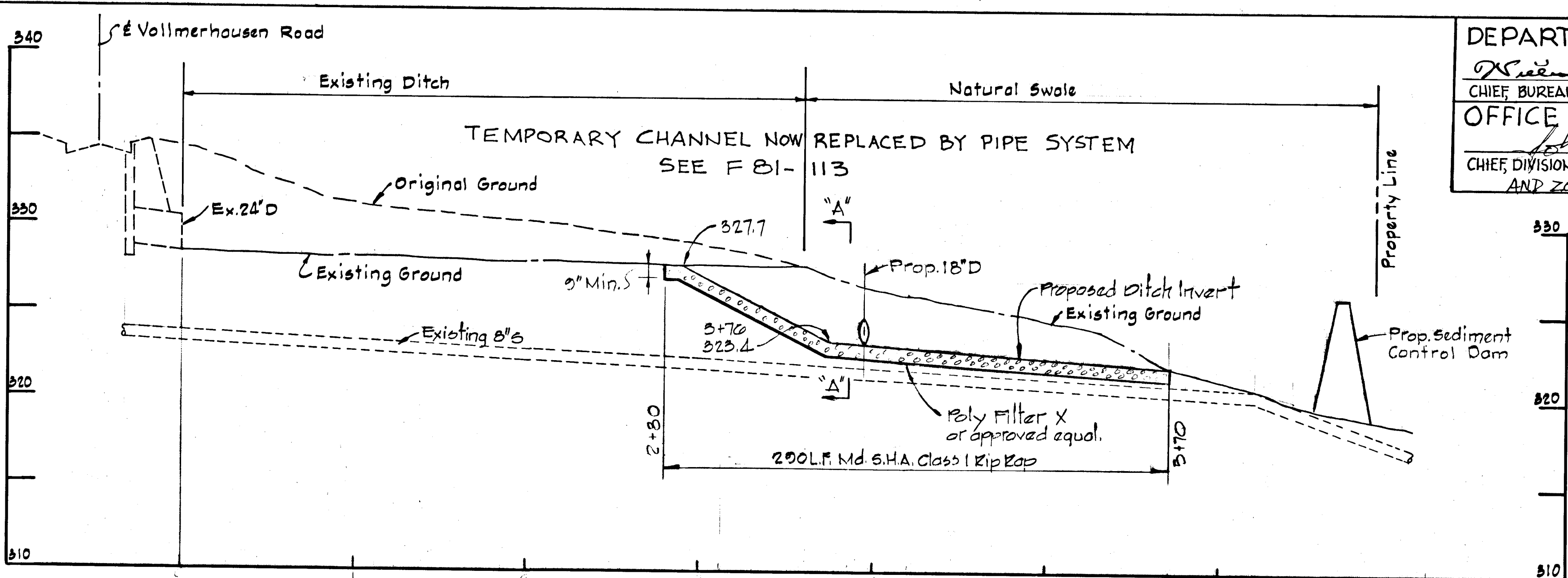
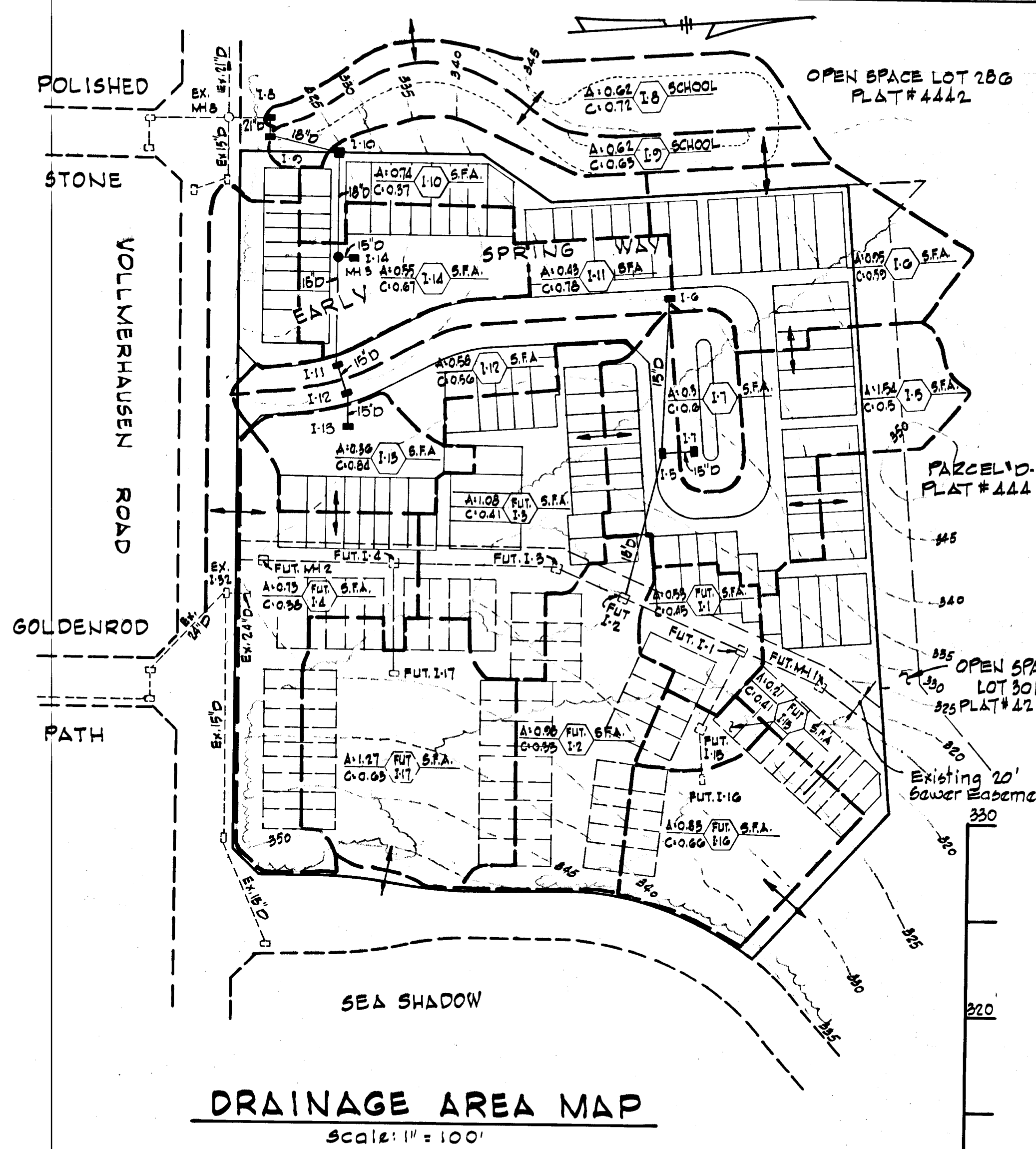
DATE: _____ BY: _____

PLAN
 SURVEYED, PLOTTED, CHECKED, DESIGNED, DRAWN, STRUCTURE LOCATIONS CHECKED.

DATE: _____ BY: _____

PROFILE
 SURVEYED, PLOTTED, CHECKED, DESIGNED, DRAWN, STRUCTURE LOCATIONS CHECKED.

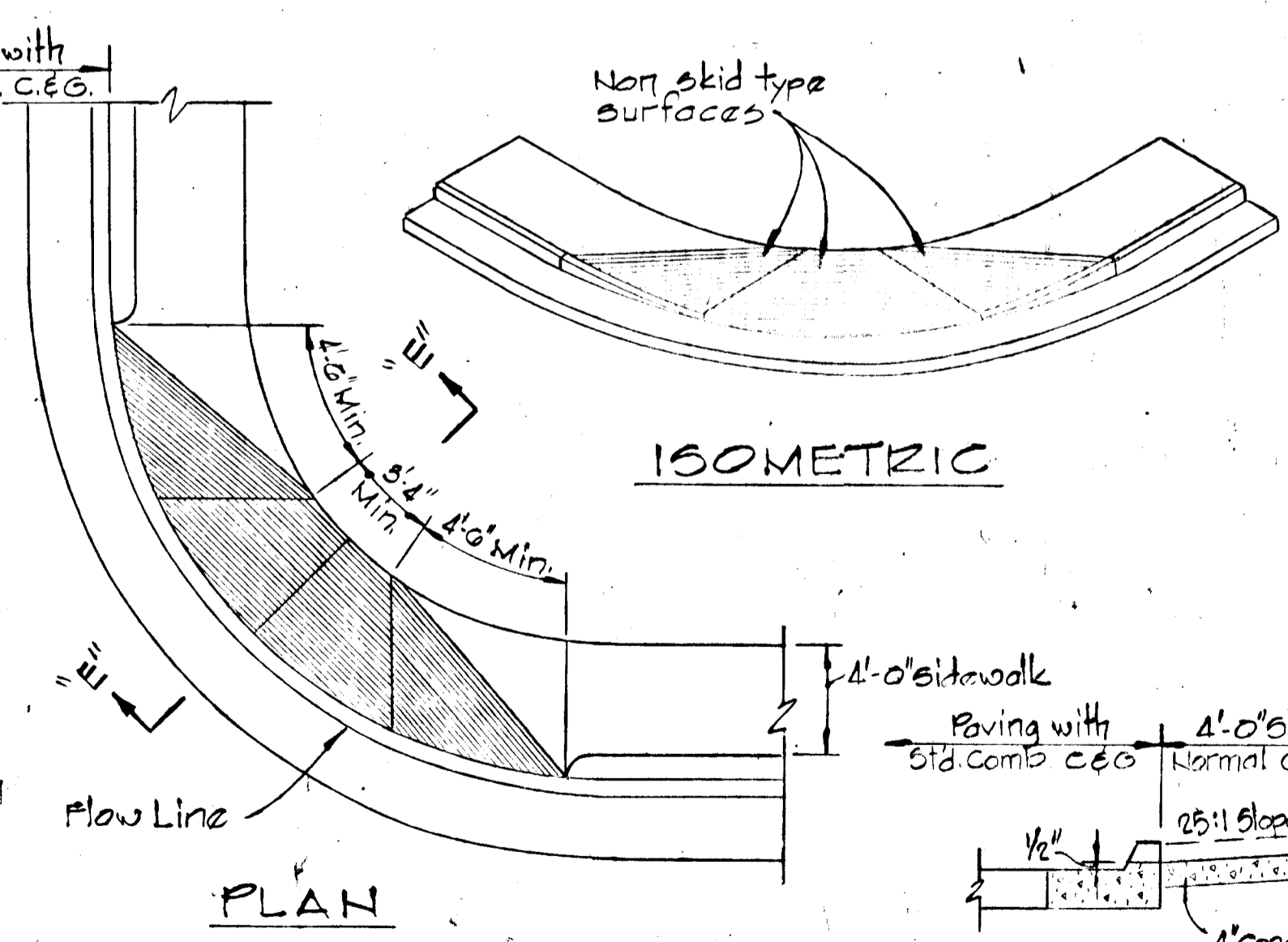
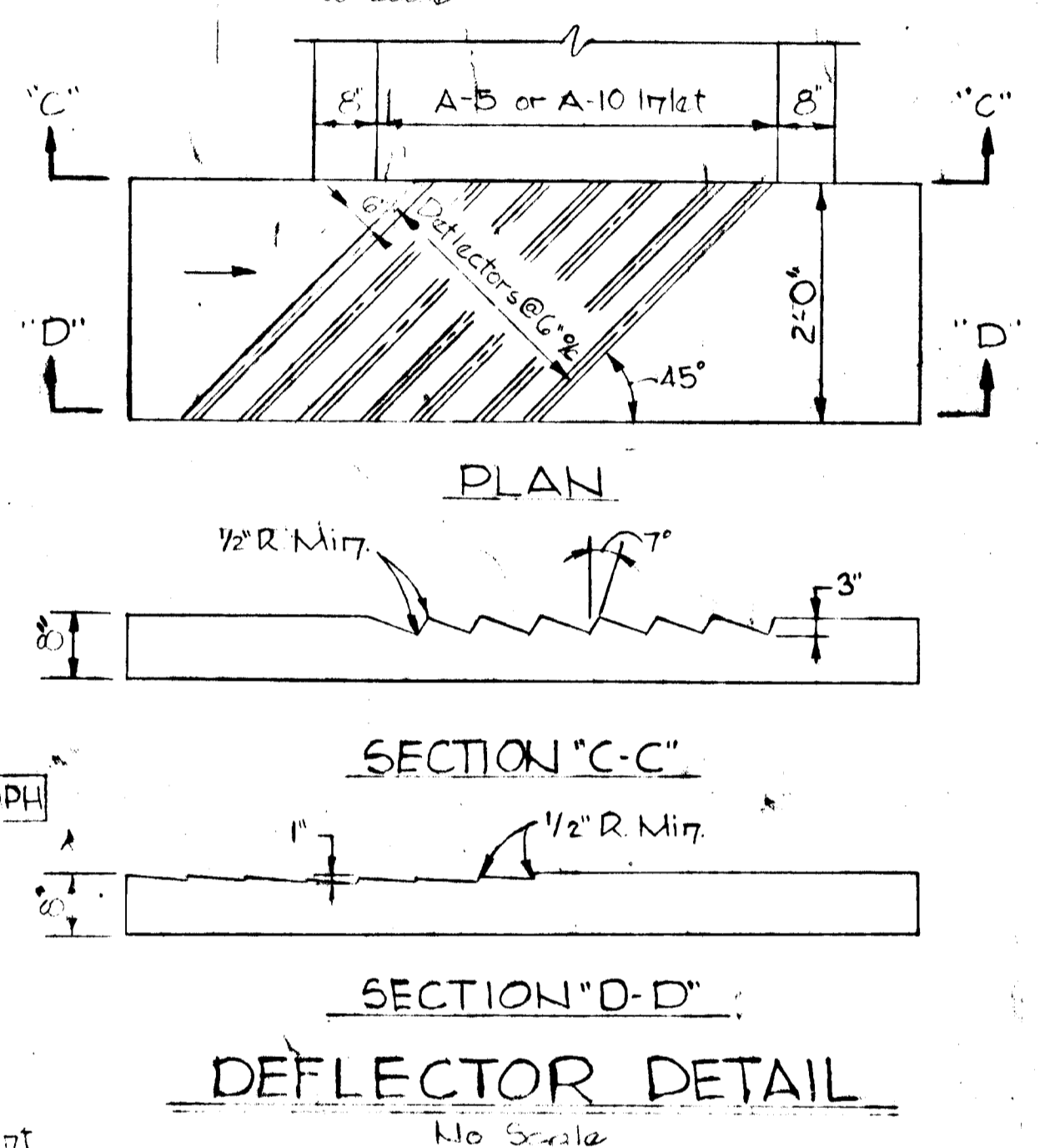
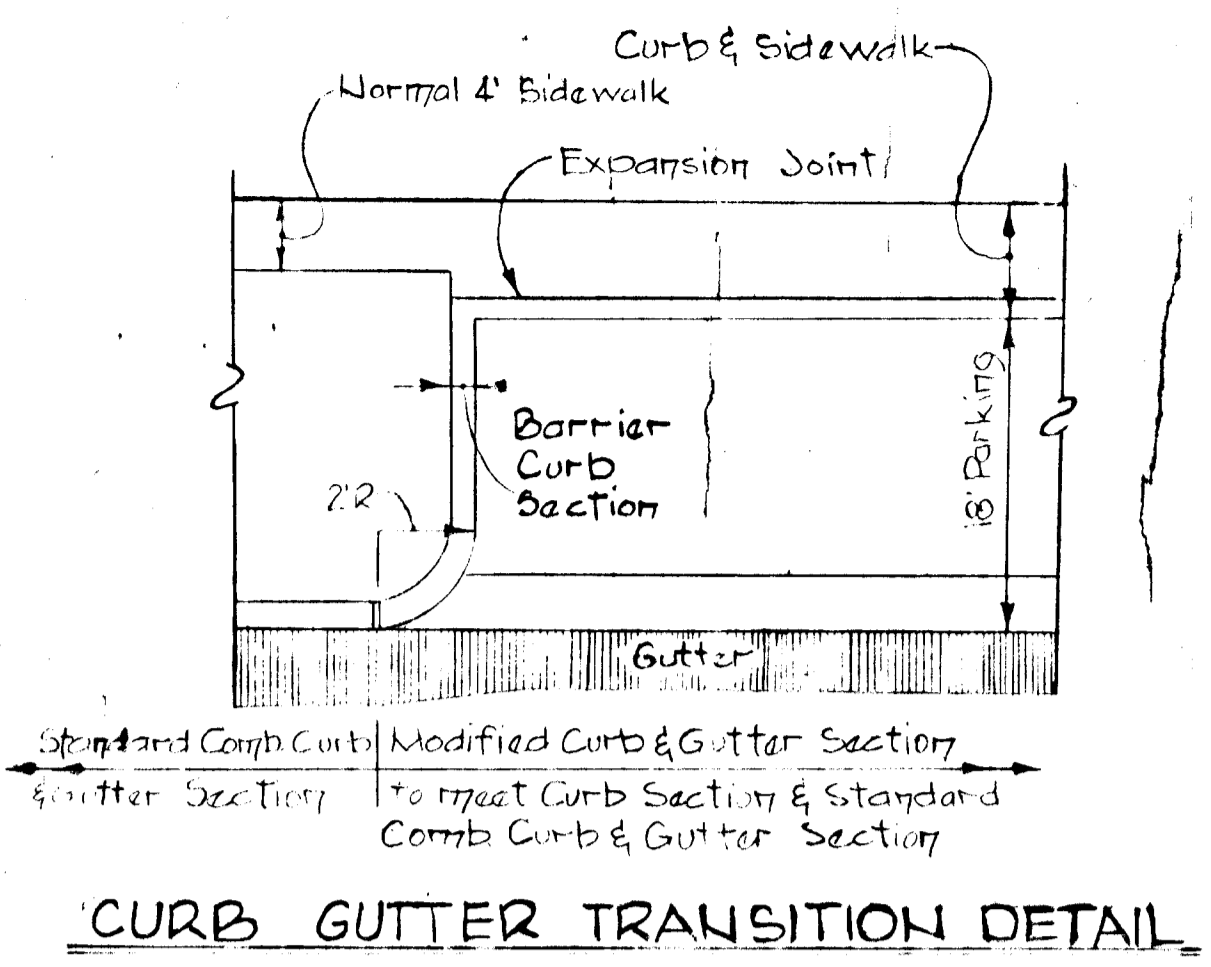
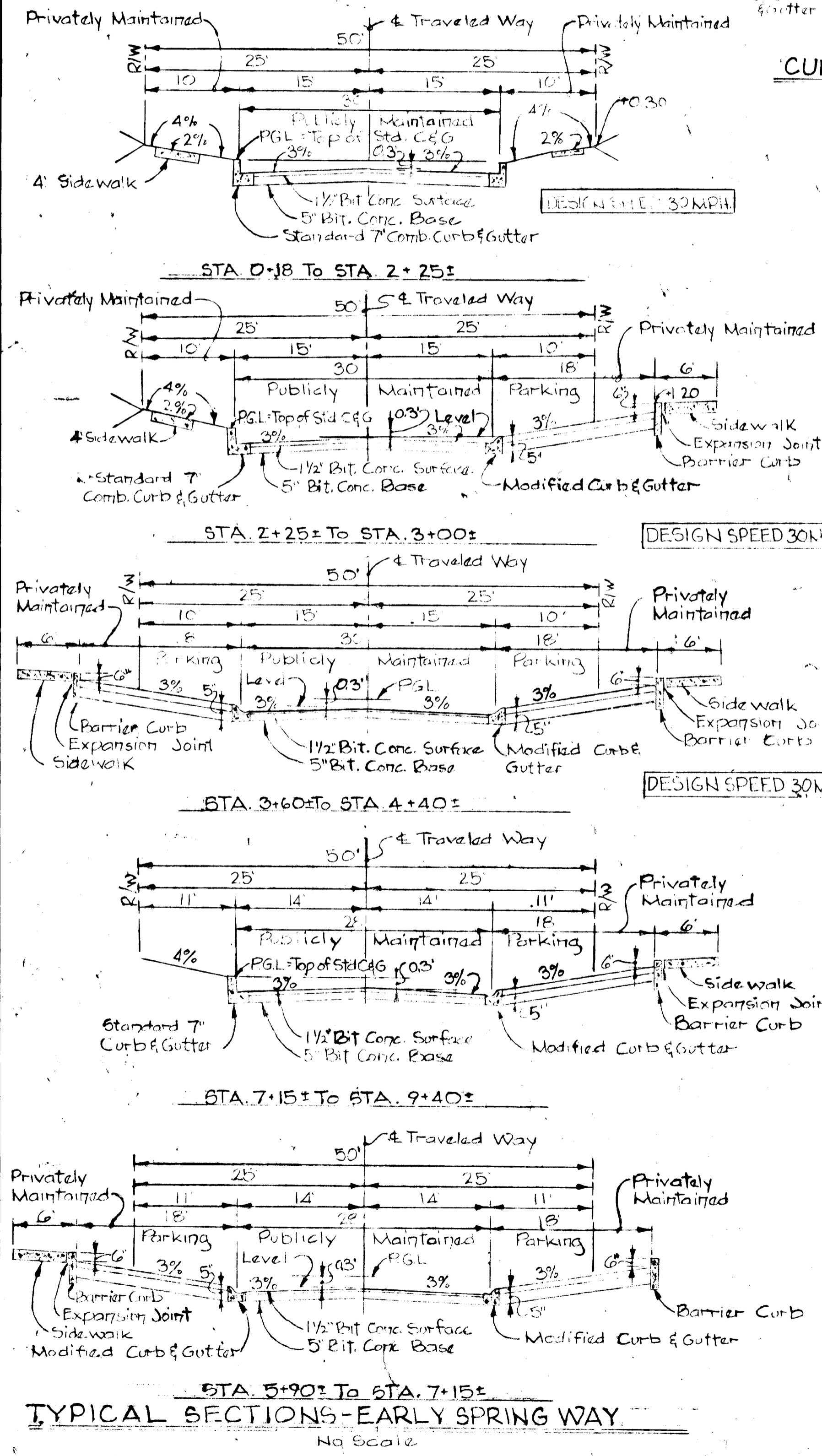
AS-BUILT SURVEY DATA BY KENNETH A. McCORD, P.E. NO. 1974 SIGNED, SEALED & DATED MARCH 24, 1982



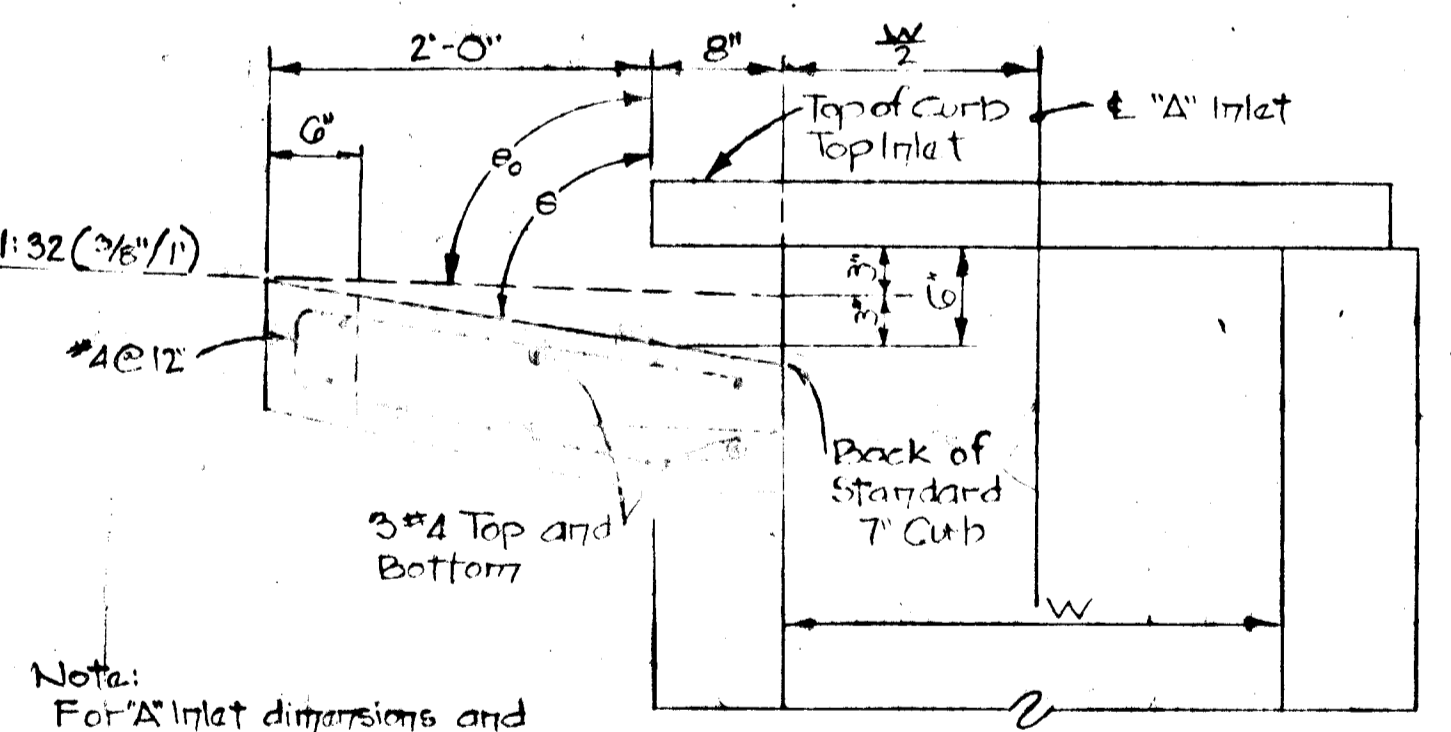
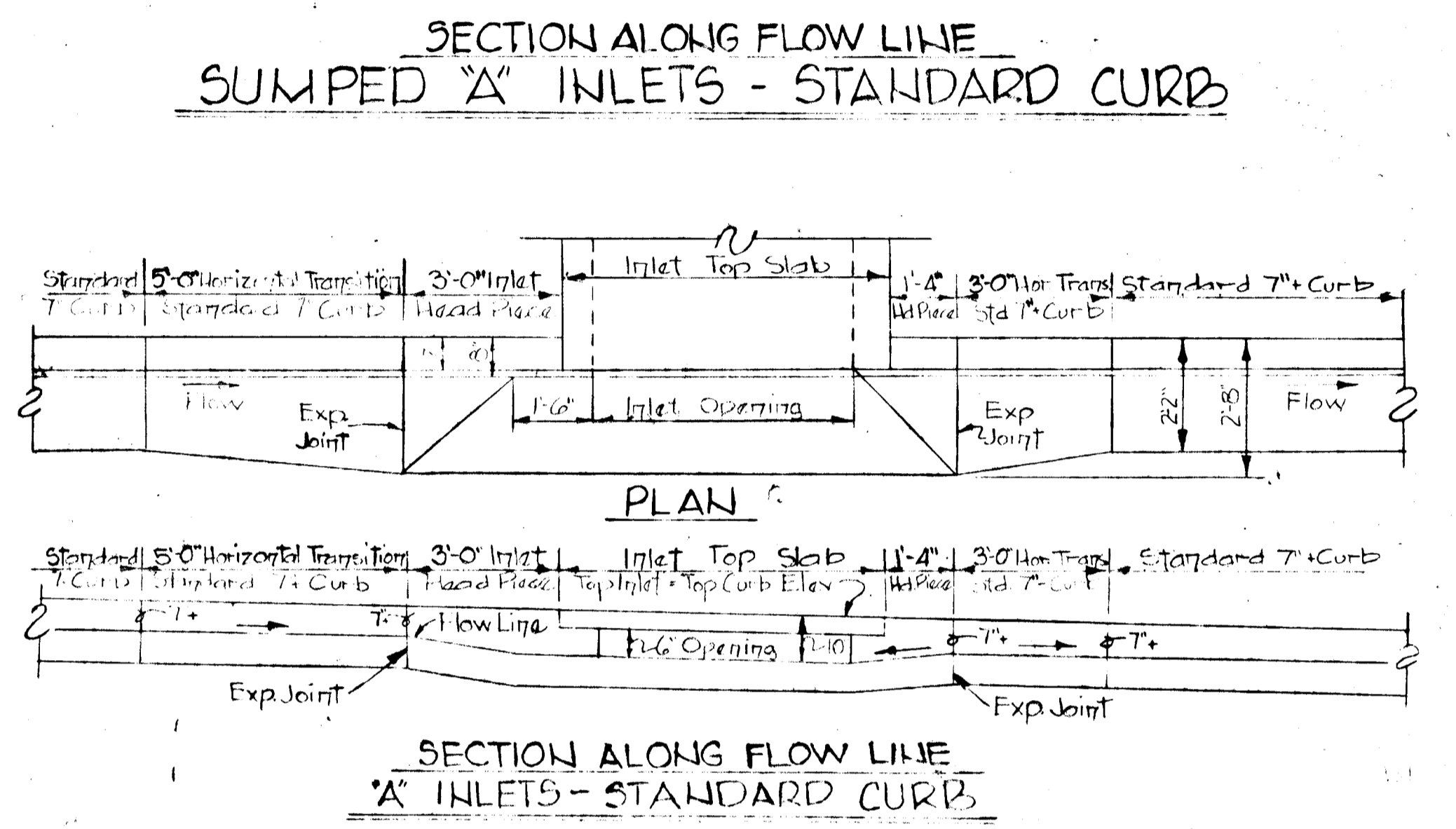
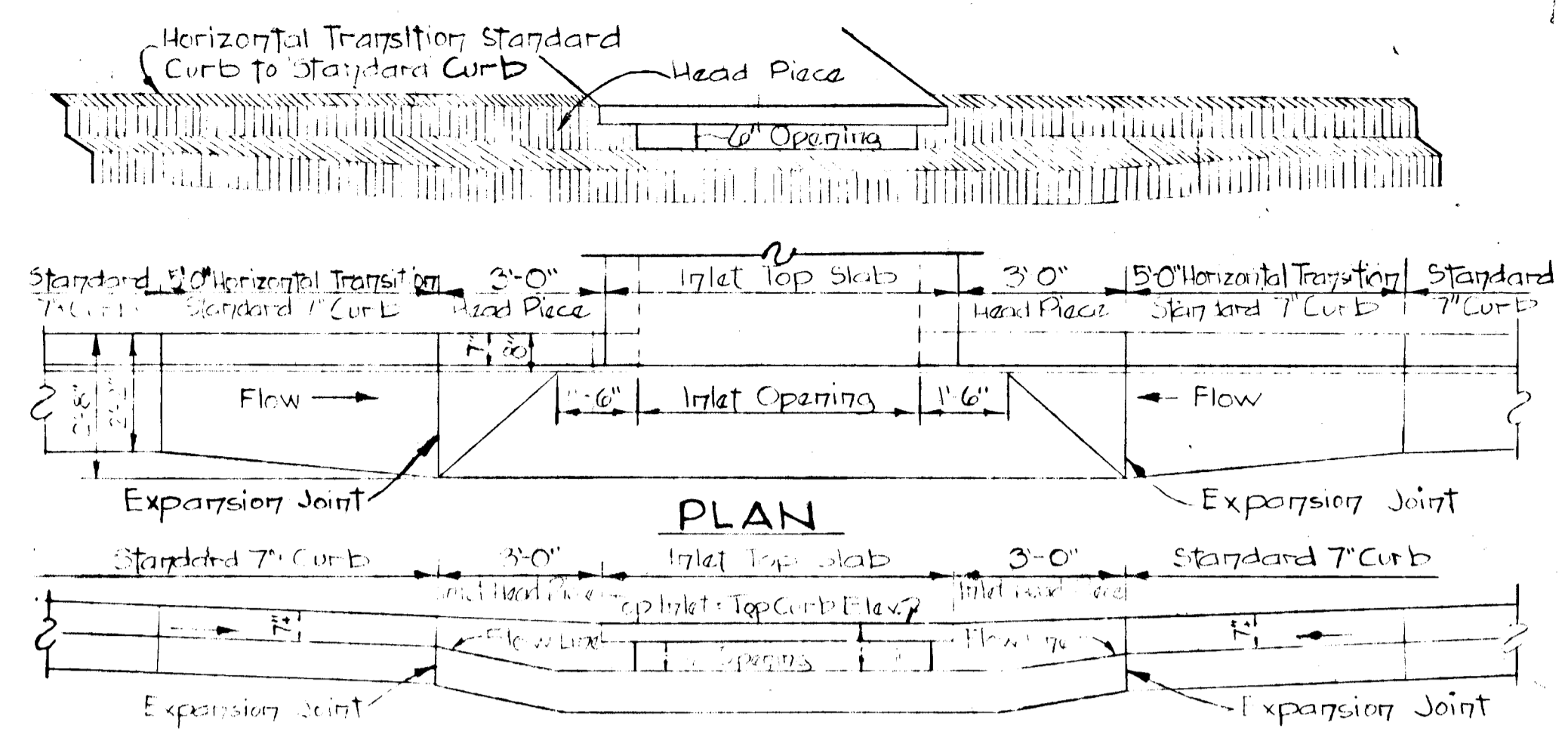
Rev. Date	Rev. No.	Revision Description
		Revision Description
COLUMBIA		
6 TH ELECTION DISTRICT		
HOWARD COUNTY, MARYLAND		
OWNER AND DEVELOPER		
HOWARD HOMES BUILDING CO., INC.		
PROJECT AREA		
VILLAGE OF KINGS CONTRIVANCE		
SECTION 3 AREA 1 LOTS E-1 TO E-83		
RESUBDIVISION OF A PORTION OF PARCEL "E"		
PROJECT TITLE:		
DRAINAGE AREA MAP		
STORM DRAIN DETAILS		
SCALE: AS SHOWN		DATE:
WHITMAN, REQUARDT AND ASSOCIATES		
ENGINEERS		
BALTIMORE, MARYLAND 21202		
<i>Kenneth A. McCord</i>		KENNETH A. McCORD Registered Engineer No. 1974

ROADWAY CONSTRUCTION NOTES:

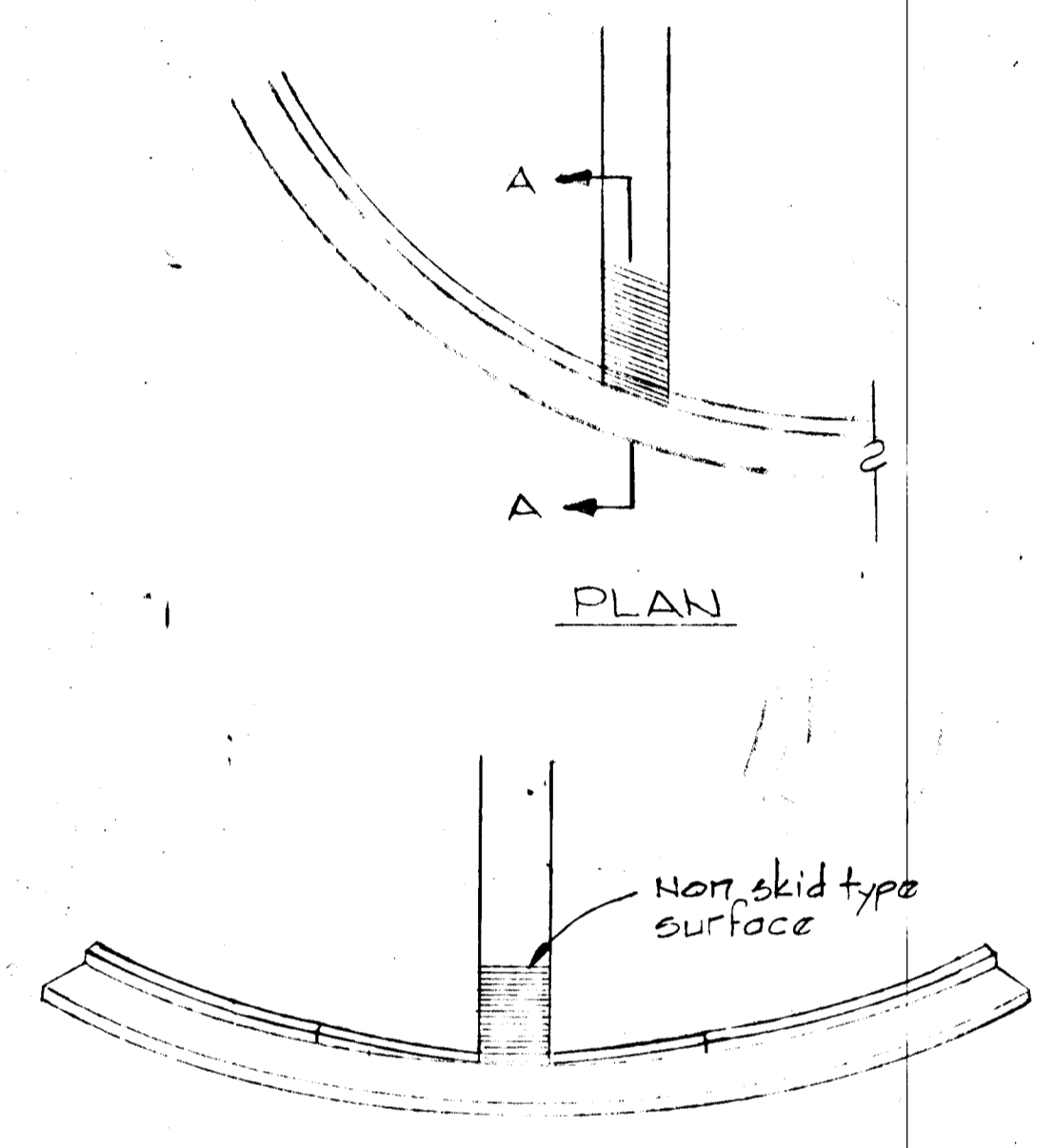
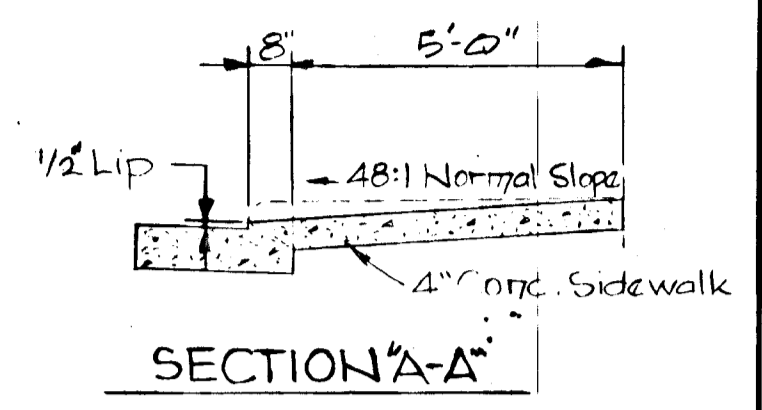
- Standard 7" Curbs and Modified Curb and Gutter shall be in accordance with County Standard D-40 Page 95.
- Paving (6 1/2") shall be in accordance with County Standard D-11 Page 66.
- Transition from Standard 7" Comb Curb and Gutter to Modified Curb and Gutter shall be in accordance with detail shown on this sheet.
- Tack Coat is required in accordance with Section C-31-4 of the Howard County Road Construction Code and Standard Spec.
- Base will be primed in accordance with C-30-3 as provided in the Howard County Road Construction Code and Standard Spec.
- Paving (5") shall be in accordance with County Standard D-13 Page 68.
- Sidewalks shall be in accordance with County Standard D-14 Page 69.
- All materials and construction methods shall be in accordance with the Howard County Road Construction Code.



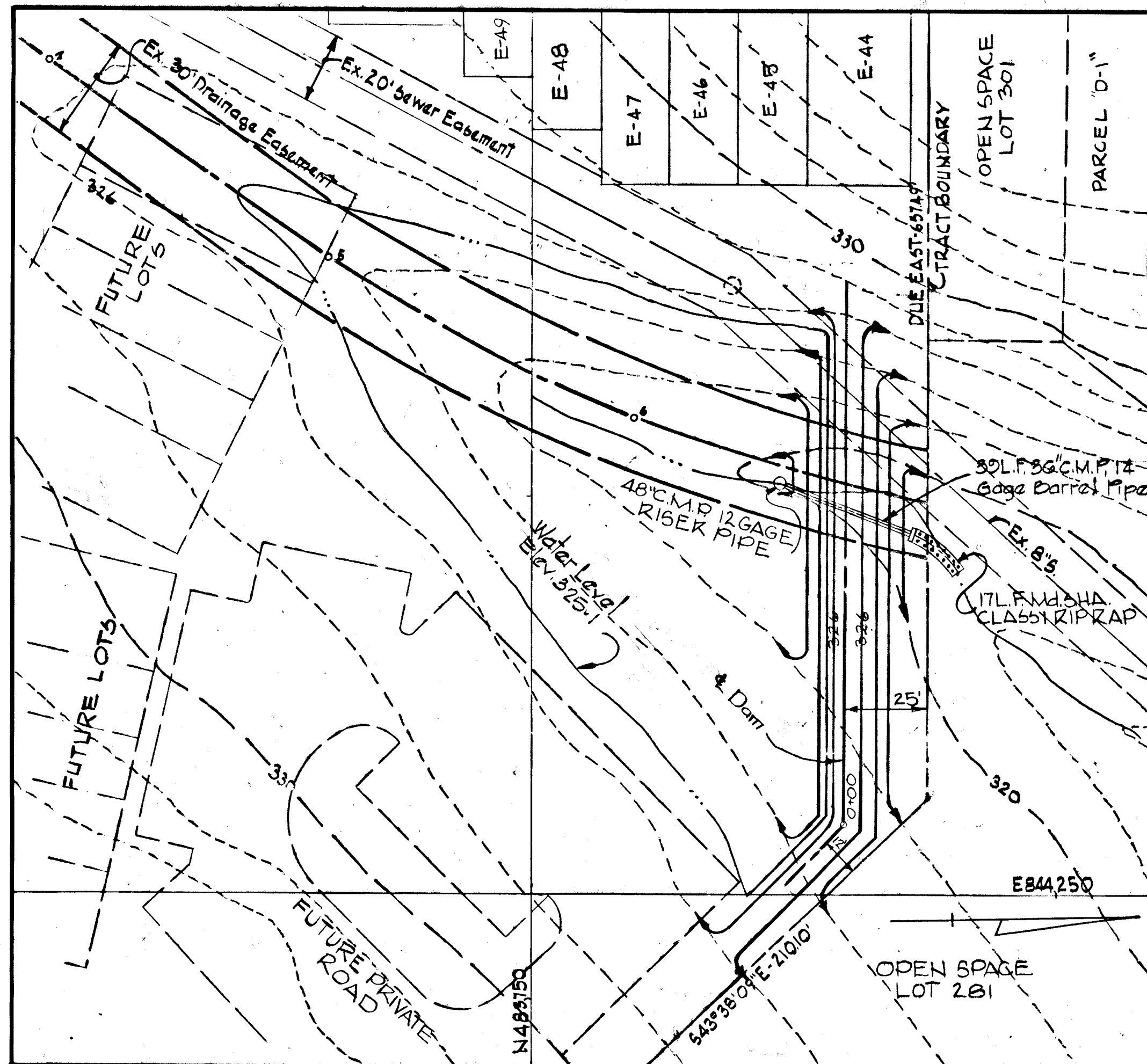
DETAIL - SIDEWALK RAMP
CAT. INTERSECTION VOLLMERHAUSEN ROAD AND EARLY SPRING WAY
No Scale



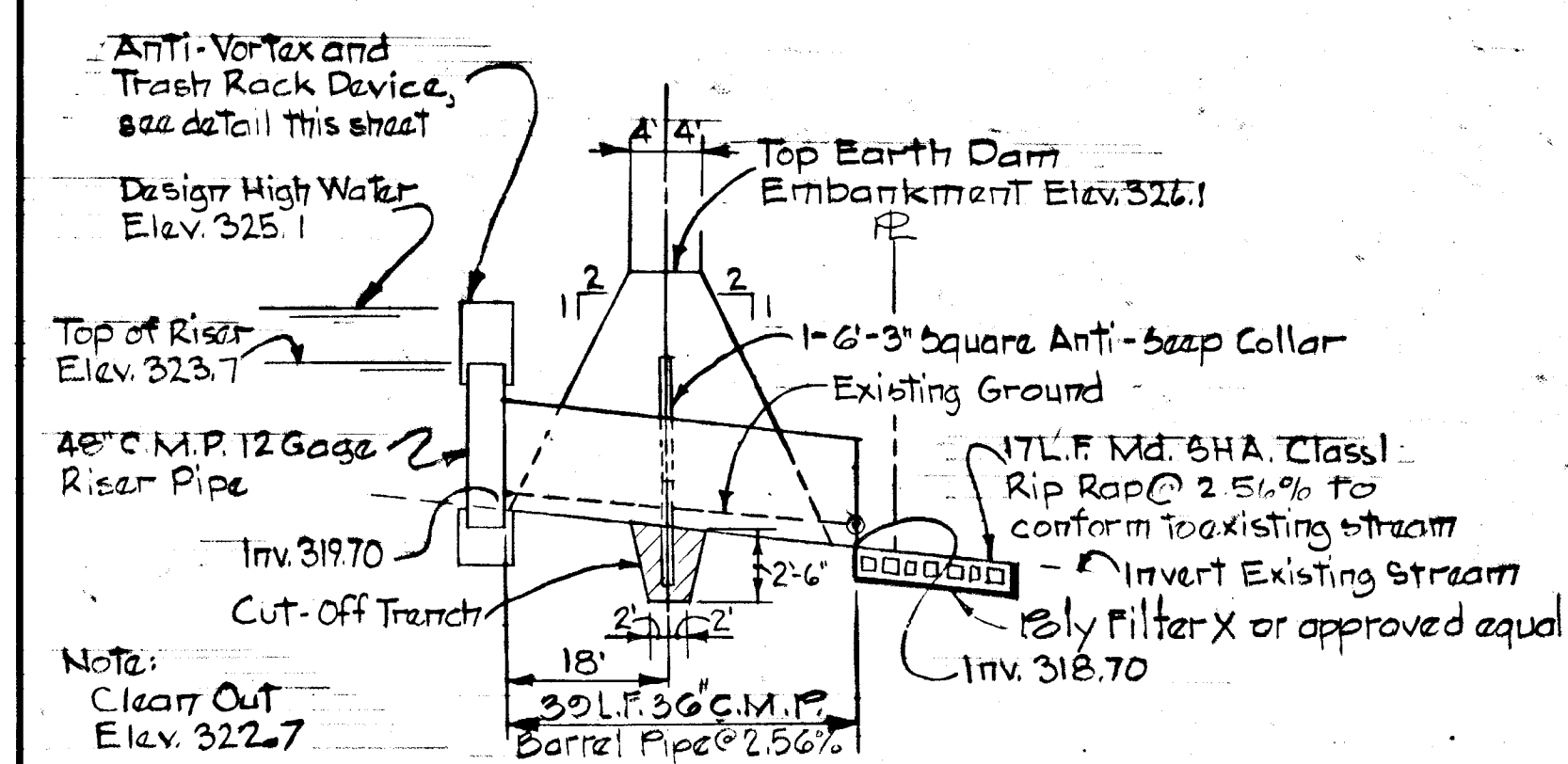
SECTION 'A' INLET STANDARD CURB



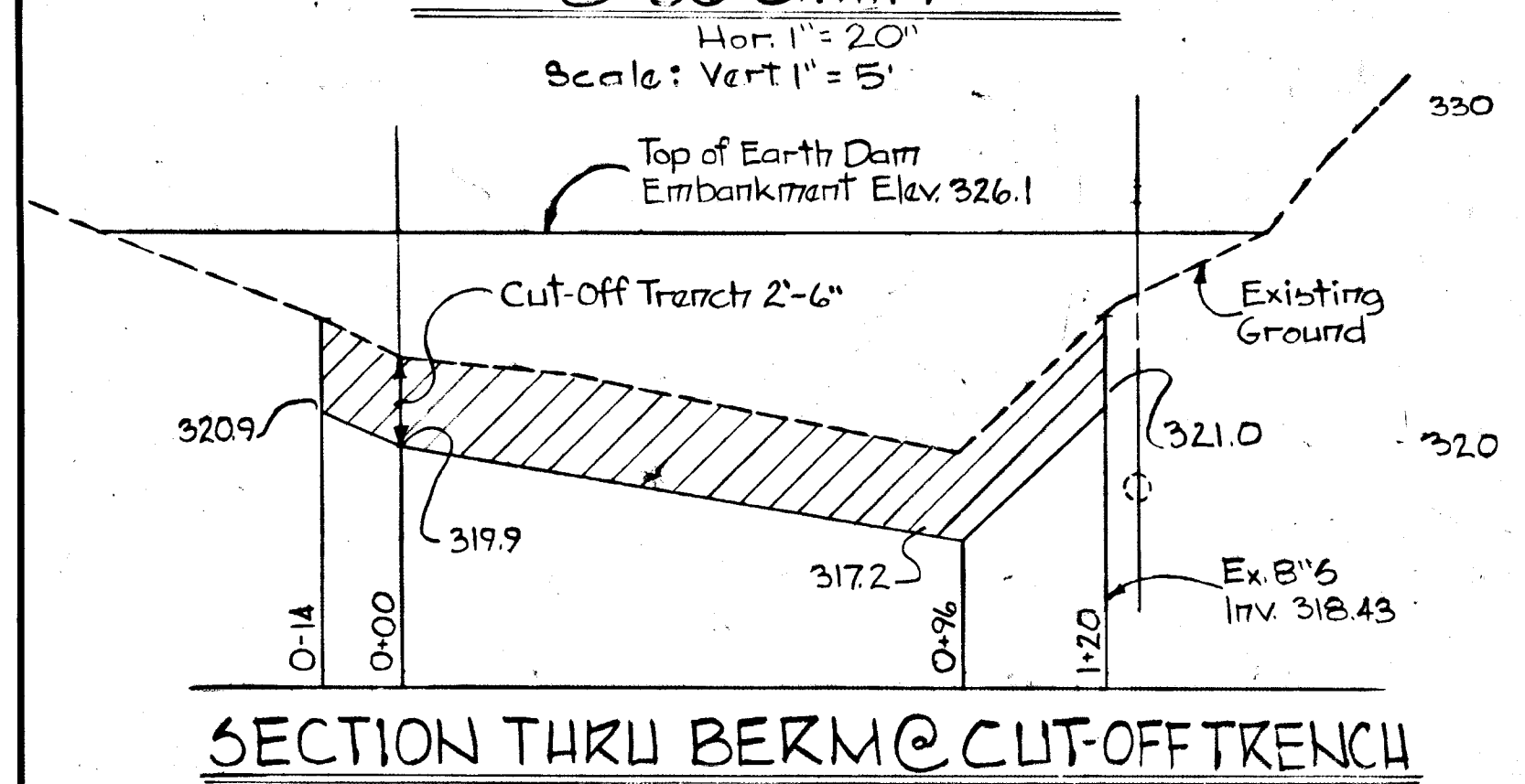
Rev. Date	Rev. No.	Revision Description
COLUMBIA 6th ELECTION DISTRICT HOWARD COUNTY, MARYLAND OWNER AND DEVELOPER HOWARD HOMES BUILDING CO., INC.		
PROJECT AREA VILLAGE OF KINGS CONTRIVANCE SECTION 3 AREA 1 LOTS E-1 TO E-83 A RESUBDIVISION OF A PORTION OF PARCEL "E"		
STANDARD DETAILS		
SCALE: AS SHOWN		DATE:
WHITMAN, REOUARDT AND ASSOCIATES ENGINEERS BALTIMORE, MARYLAND 21202		
Kenneth A. McCaskey KENNETH A. MCCASKEY Registered Engineer No. 1974		



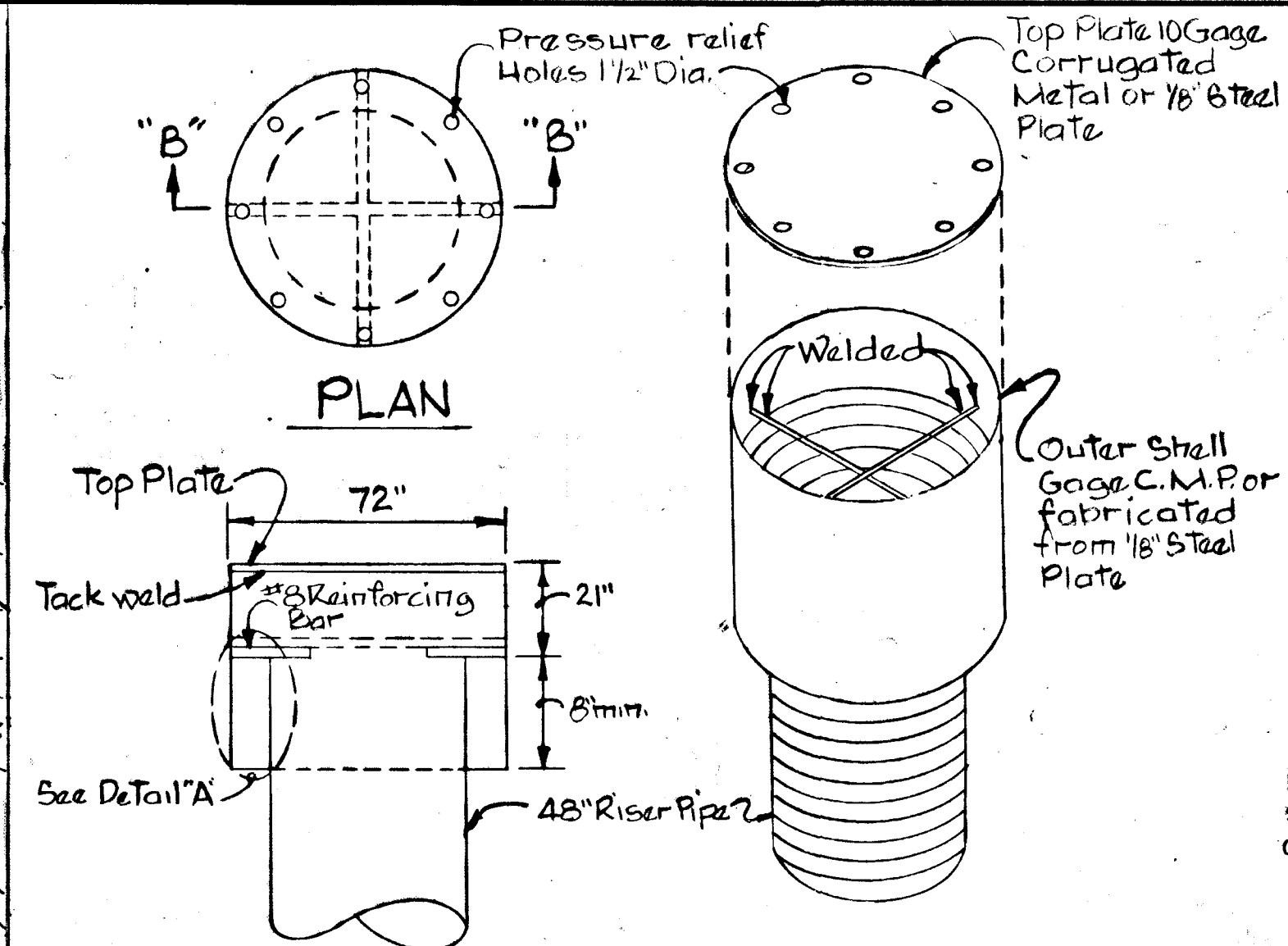
PLAN - SEDIMENT BASIN
Scale: 1" = 30'



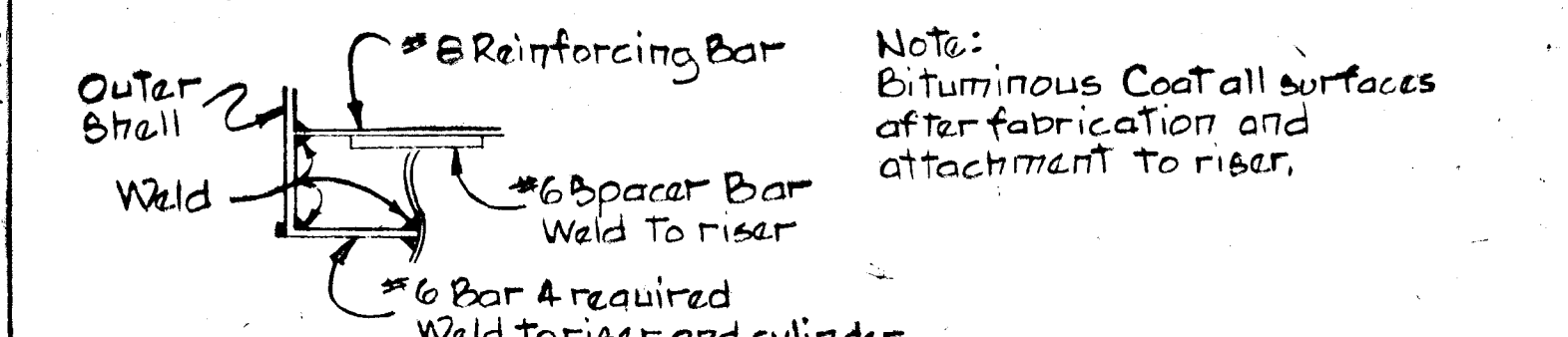
SECTION THRU DAM @ 30" C.M.P.
Hor. 1" = 20'
Scale: Vert 1" = 5'



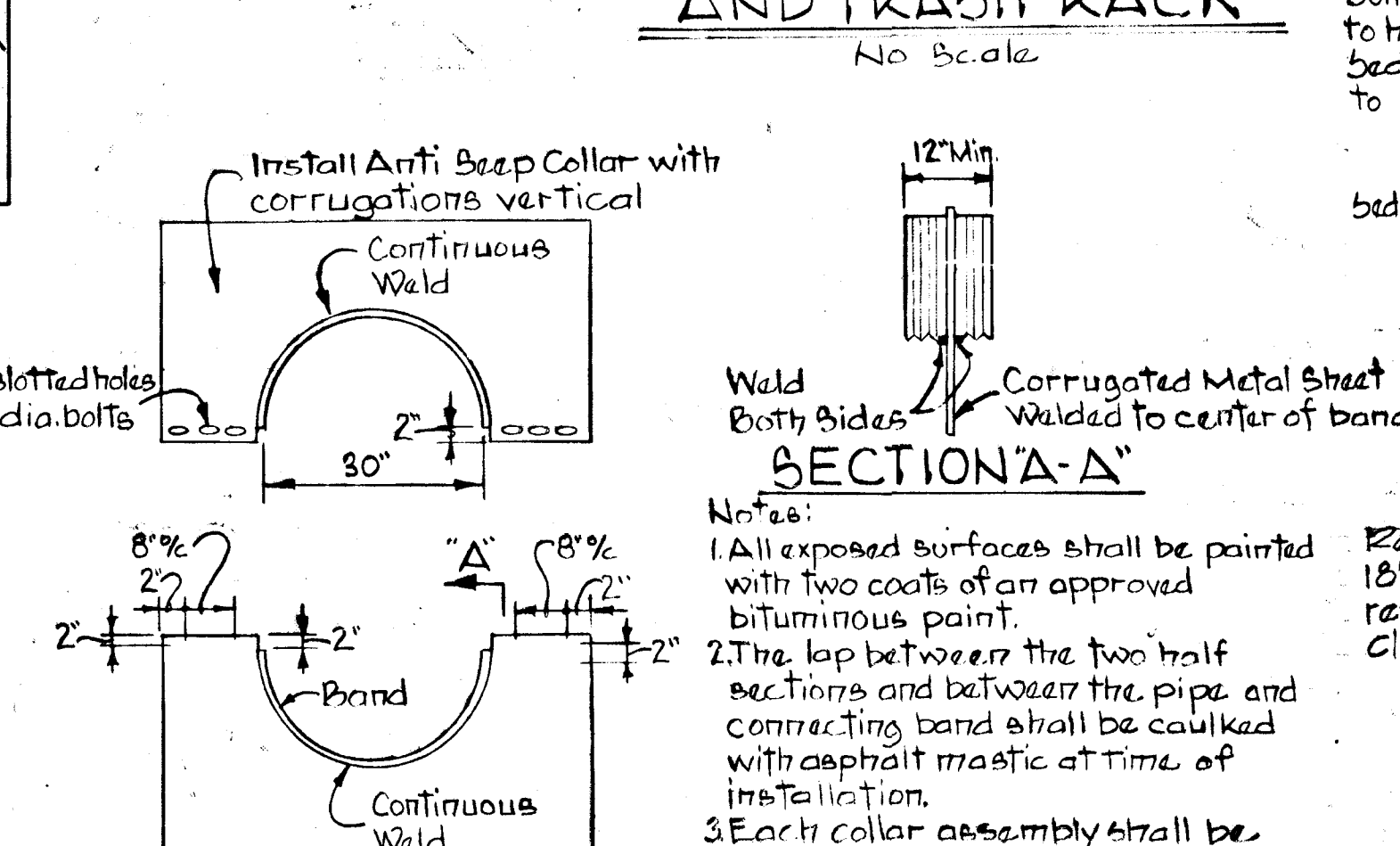
SECTION THRU BERM @ CUT-OFF TRENCH
Scale: Hor. 1" = 30'
Vert. 1" = 5'



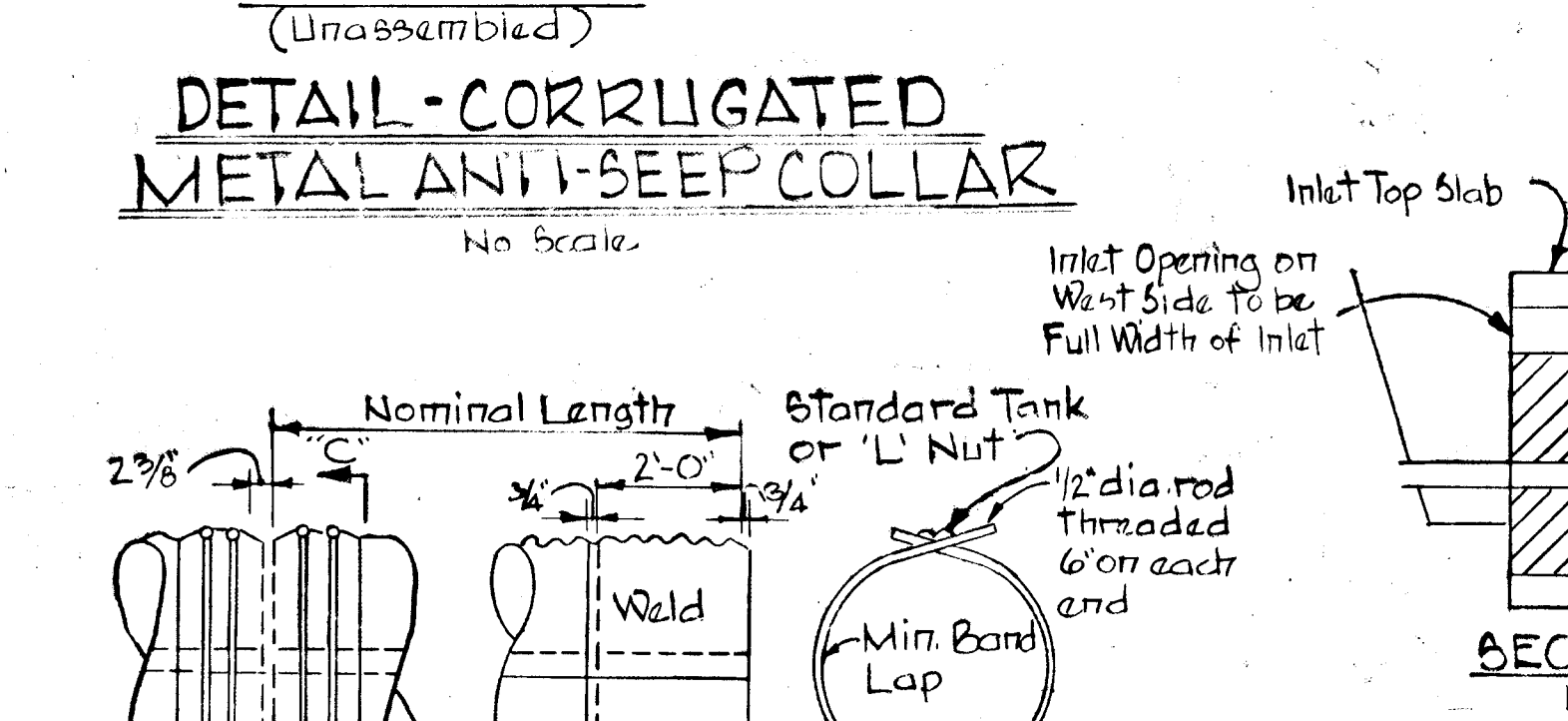
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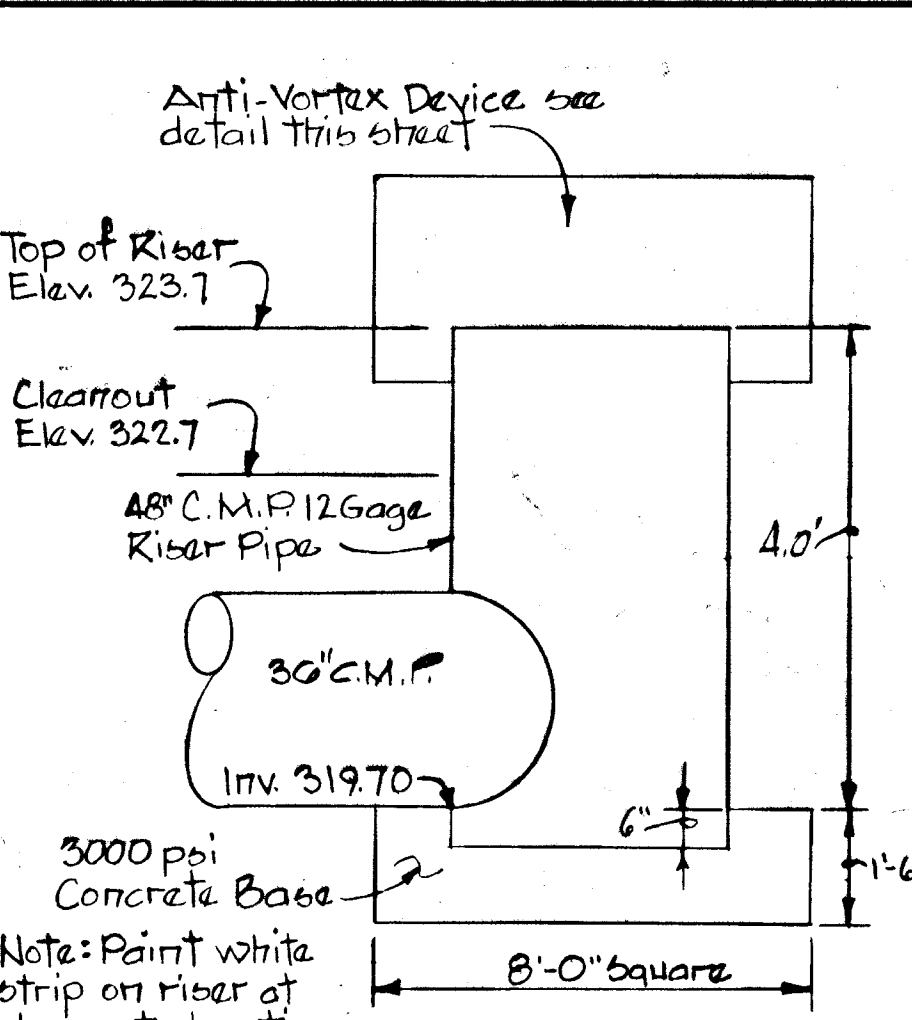
SECTION "B-B"
DETAIL "A"
ANTI-VORTEX DEVICE AND TRASH RACK
No Scale



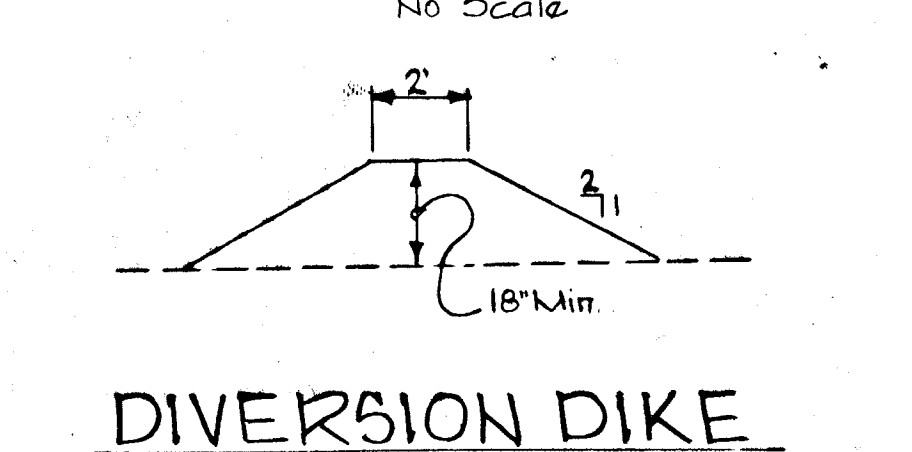
ELEVATION (Unassembled)
SECTION "A-A"



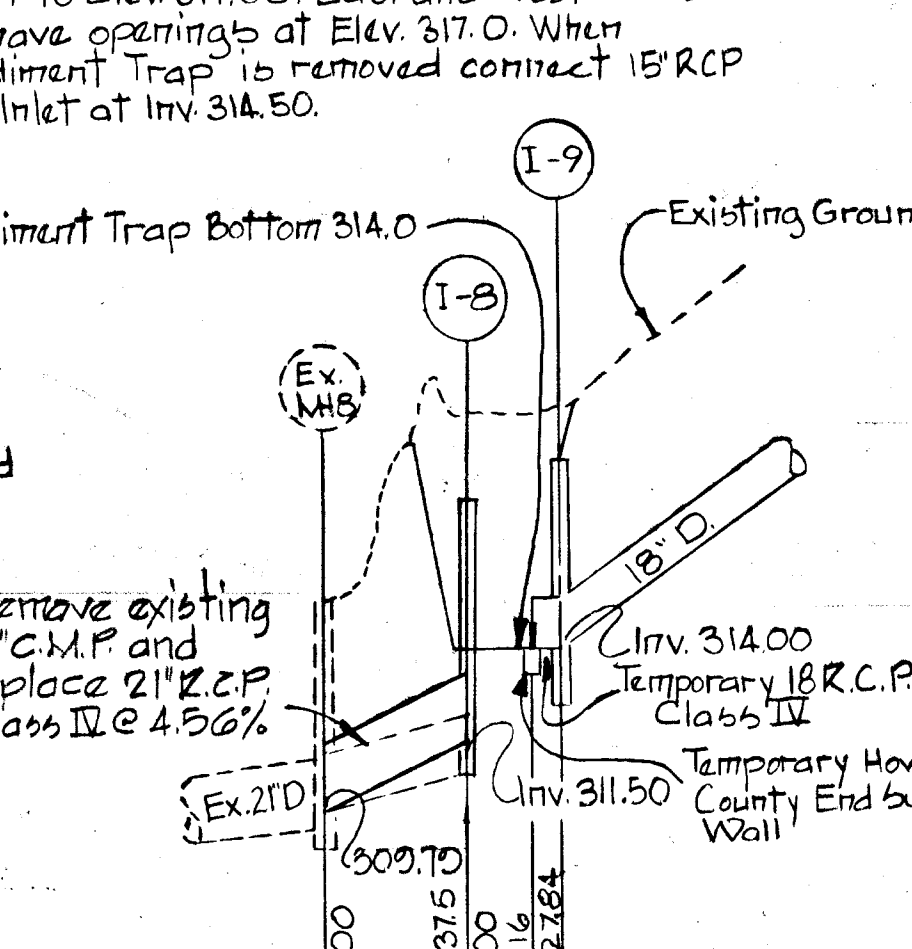
DETAIL - CORRUGATED METAL ANTI-SEEP COLLAR
SECTION "C-C"
ELEVATIONS
DETAIL - WATER TIGHT COUPLING BAND



RISER DETAIL
No Scale



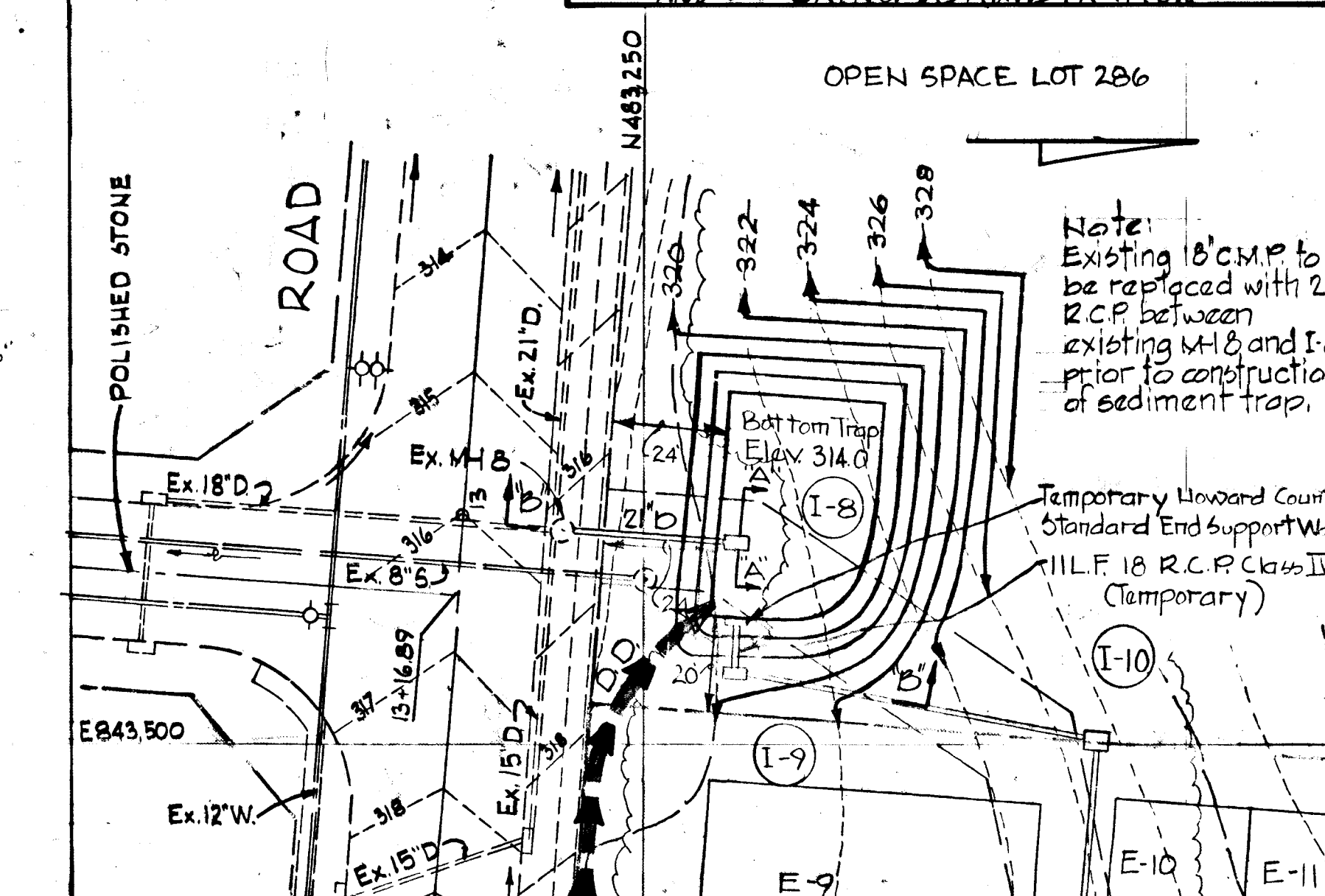
DIVERSION DIKE
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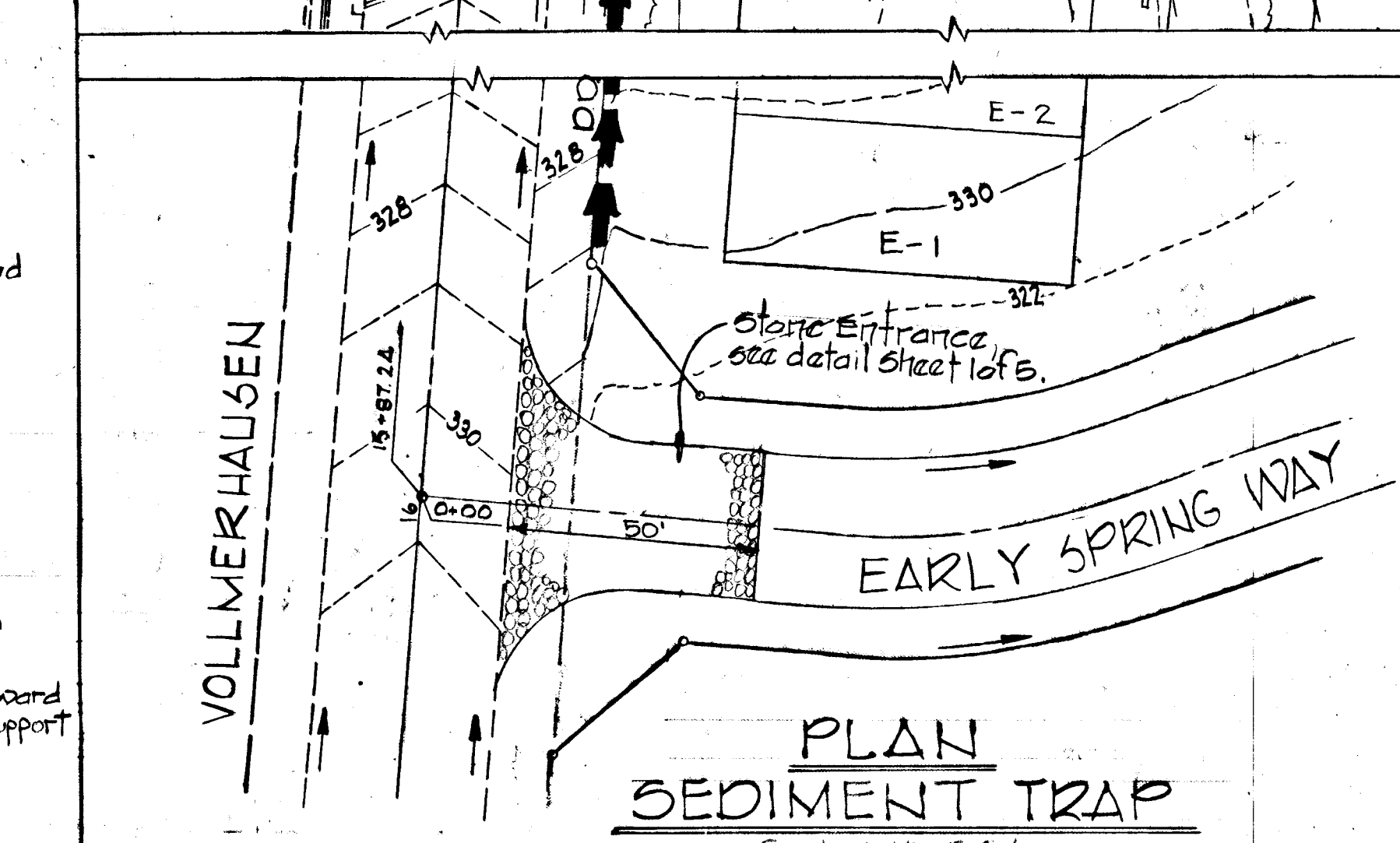
SECTION "B-B"
Scale: Hor. 1" = 50'
Vert. 1" = 5'

DESIGN DATA TRAP NO.
DRAINAGE AREA = 3.24 ACRES
DISTURBED AREA = 3.24 ACRES
VOLUME REQUIRED = 324 x 47 = 15308 CY
VOLUME AVAILABLE = 2300 CY
DESIGN CAPACITY ELEV. = 317.0
CLEAN-OUT ELEV. = 316.5
SIZE OF TRAP 33" x 47"
CONTOUR 314

DEPARTMENT OF PUBLIC WORKS
4/9/81
CHIEF BUREAU OF ENGINEERING
OFFICE OF PLANNING & ZONING
4-7-81
CHIEF DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION



PLAN SEDIMENT TRAP
Scale: 1" = 50'



PLAN SEDIMENT TRAP
Scale: 1" = 50'

RESPONSIBLE PERSONNEL CERTIFICATION
"I hereby certify 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."
Lee B. Rosenberg 1-20-81
LEE B. ROSENBERG DATE

Rev. No.	Rev. Date	Revision Description
01-81		Revised C.O. Elev. @ Dam

COLUMBIA
6TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
OWNER AND DEVELOPER
HOWARD HOMES BUILDING CO., INC.

REVIEWED FOR HOWARD S.C.D. NAME: _____ AND MEETS TECHNICAL REQUIREMENTS
APPROVED: **Lee B. Rosenberg** 4-7-81
HOWARD S.C.D. DATE SIGNATURE DATE
U.S. SOIL CONSERVATION SERVICE

PROJECT AREA
VILLAGE OF KINGS CONTRIVANCE
SECTION 3 AREA 1 LOTS E-1 TO E-83
A RESUBDIVISION OF A PORTION OF PARCEL "E"

PROJECT TITLE
SEDIMENT CONTROL

SCALE: AS SHOWN DATE

CERTIFICATION BY THE DEVELOPER
"I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN 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."
Lee B. Rosenberg 1-20-81
LEE B. ROSENBERG DATE

CERTIFICATION BY THE ENGINEER
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Kenneth A. McCord 1-19-81
KENNETH A. McCORD, P.E. No. 1974 REGISTERED ENGINEER DATE

WHITMAN, REQUARDT & ASSOCIATES ENGINEERS
BALTIMORE, MARYLAND 21202
Kenneth A. McCord
KENNETH A. McCORD
Registered Engineer
No. 1974