

STORM DRAIN STRUCTURE SCHEDULE

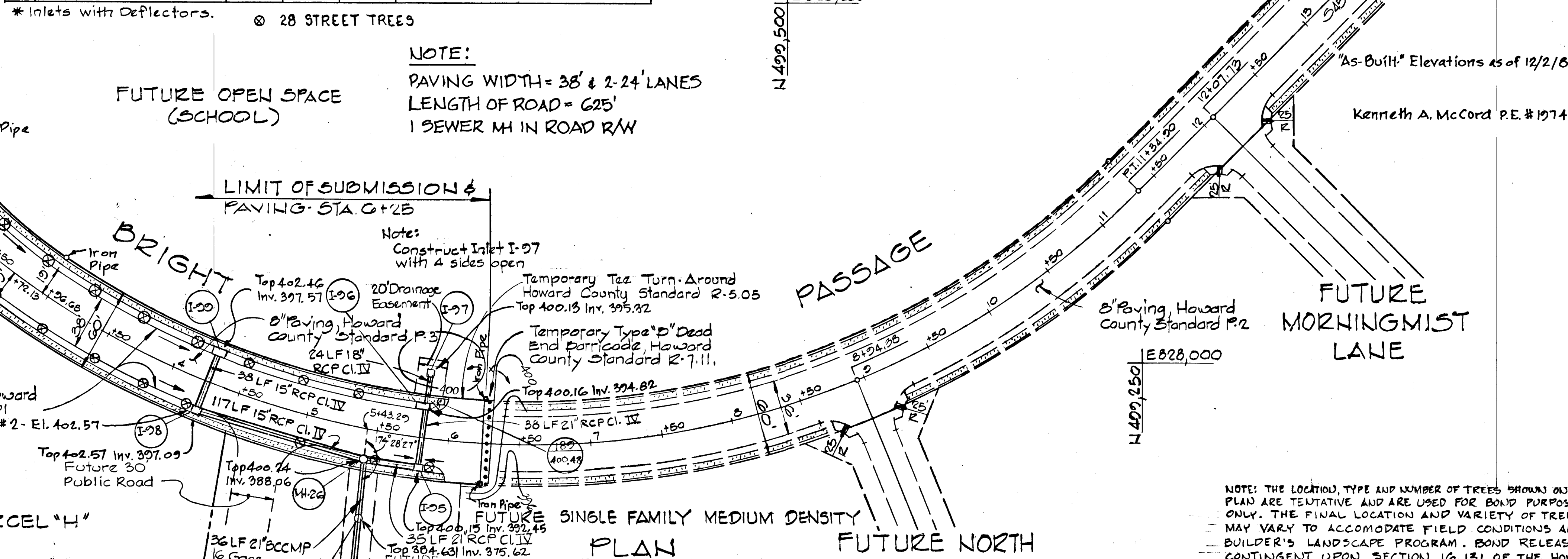
NO.	TYPE	TOP EL.	INV. IN	INV. OUT	LOCATION
I-25	Std. A-5 Inlet, width=25, S.D. 4.01	400.13	392.30	392.10	Inlet 20'22' Rt. of Sta. 5+80.68
I-26	Std. A-10 Inlet, width=25, S.D. 4.02	400.13	394.79	394.54	Inlet 20'22' Lt. of Sta. 5+78
I-27	Type 'D' Inlet	S.D. 4.11	392.83	375.06	Inlet 48.00' Lt. of Sta. 5+80.68
I-28	Std. A-5 Inlet, width=25, S.D. 4.01	402.52	397.14	396.94	Inlet 20'22' Rt. of Sta. 4+25
I-29	Std. A-10 Inlet, width=25, S.D. 4.02	402.52	397.44	397.44	Inlet 20'22' Lt. of Sta. 4+25
M-24	Std. Manhole	G.S. 01	376.80	368.78	See Plan and Profile
M-25	Std. Manhole	G.S. 01	385.00	375.22	See Plan and Profile
M-26	Std. Manhole	G.S. 01	400.40	391.07	See Plan and Profile
S-18	Type 'O' Headwall	S.D. 5.41	362.70	359.20	See Plan and Profile

CURVE DATA

Stationing	Delta	Tan	Ch. Brg.
P.C. 1+02.50 TO P.T. 8+24.38	$\Delta: 75^{\circ}14'36''$	Tan: 464.74'	Ch. Brg.: $S 5^{\circ}04'34'' W$
P.T. 8+24.38 TO P.T. 12+07.73	$\Delta: 22^{\circ}51'12''$	Tan: 121.85'	Ch. Brg.: $S 23^{\circ}02' E$
P.C. 1+02.50 TO P.T. 8+24.38	$\Delta: 16^{\circ}07'05''$	Tan: 50.00'	Ch. Brg.: $S 44^{\circ}38'10'' W$
P.T. 8+24.38 TO P.T. 12+07.73	$\Delta: 18^{\circ}27'02''$	Tan: 60.09'	Ch. Brg.: $S 43^{\circ}28'21'' W$

DEPARTMENT OF PUBLIC WORKS
 CHIEF, BUREAU OF ENGINEERING & ZONING
 OFFICE OF PLANNING & ZONING
 CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION

NOTE: FOR EXISTING LITTLE PATUXENT PARKWAY PLAN AND PROFILE, SEE CONSTRUCTION DRAWINGS FOR VILLAGE OF HICKORY RIDGE SECTION 3 AREA 5 (F-84-51)



DATE	REV. NO.	REVISION DESCRIPTION
5/27/84	2	As Per D.P.W. and S.C.S. Comments
10/16/83	1	As Per D.P.W. and S.C.S. Comments

COLUMBIA
 5th ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

OWNER AND DEVELOPER
 HOWARD RESEARCH AND DEVELOPMENT CORPORATION

PROJECT AREA
 VILLAGE OF HICKORY RIDGE
 SECTION 3 AREA 6

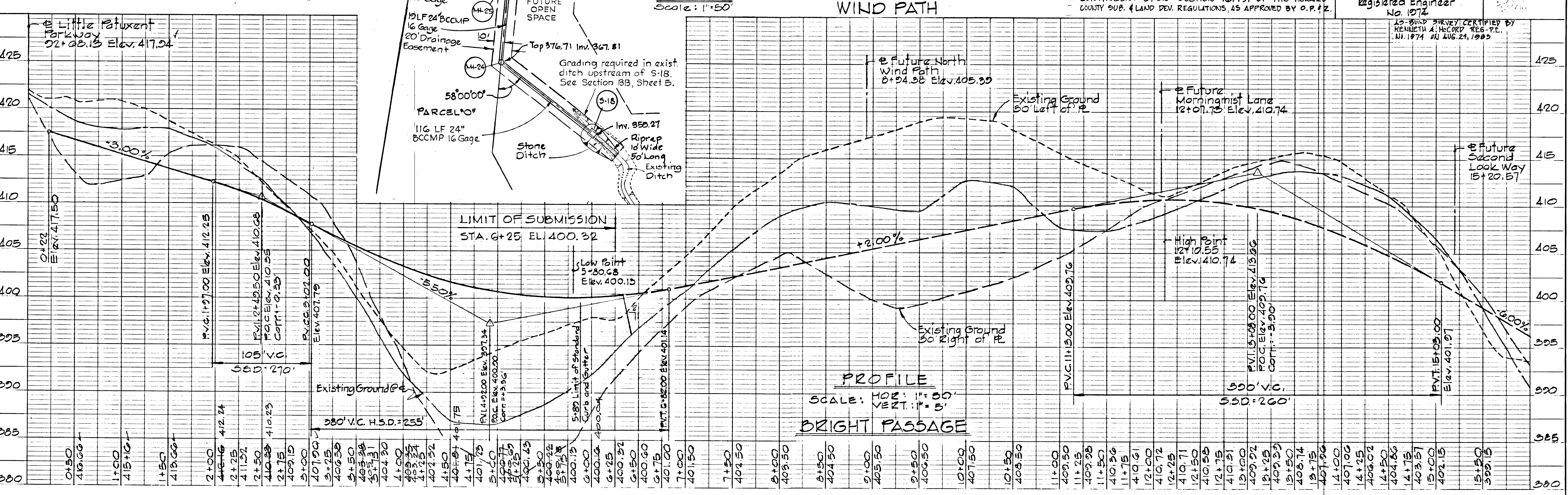
PROJECT TITLE
 PLAN AND PROFILE
 BRIGHT PASSAGE
 STA. 0+100 TO STA. 6+25

SCALE: AS SHOWN DATE:

WHITMAN, REQUAZOT AND ASSOCIATES
 ENGINEERS
 BALTIMORE, MARYLAND 21215

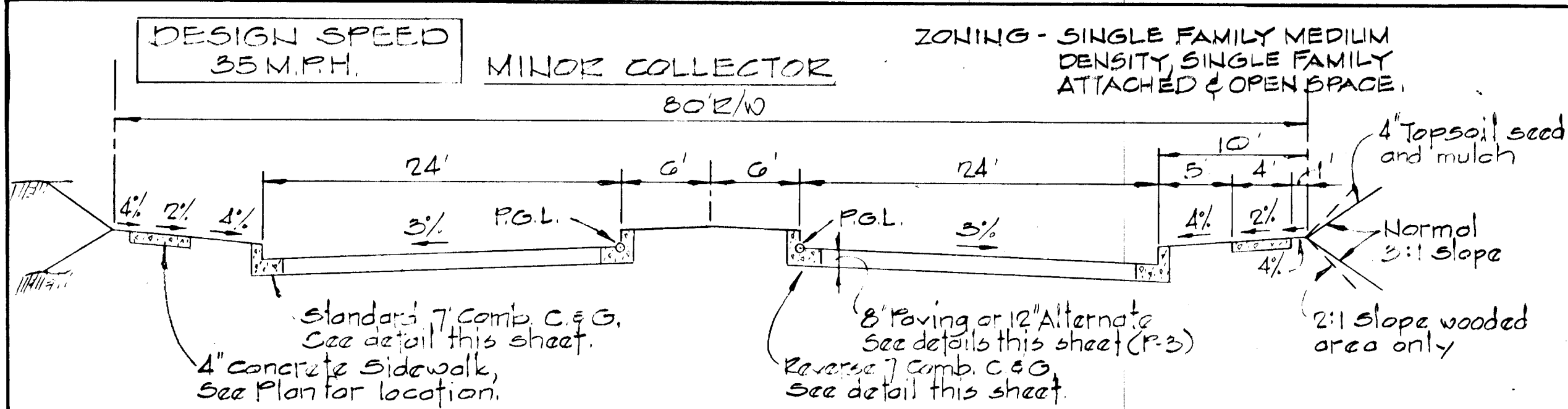
Kenneth A. McCord
 Registered Engineer
 No. 1974

AS-BUILT SURVEY CERTIFIED BY
 KENNETH A. MCCORD, REG. P.E.
 No. 1974 ON AUG. 24, 1985

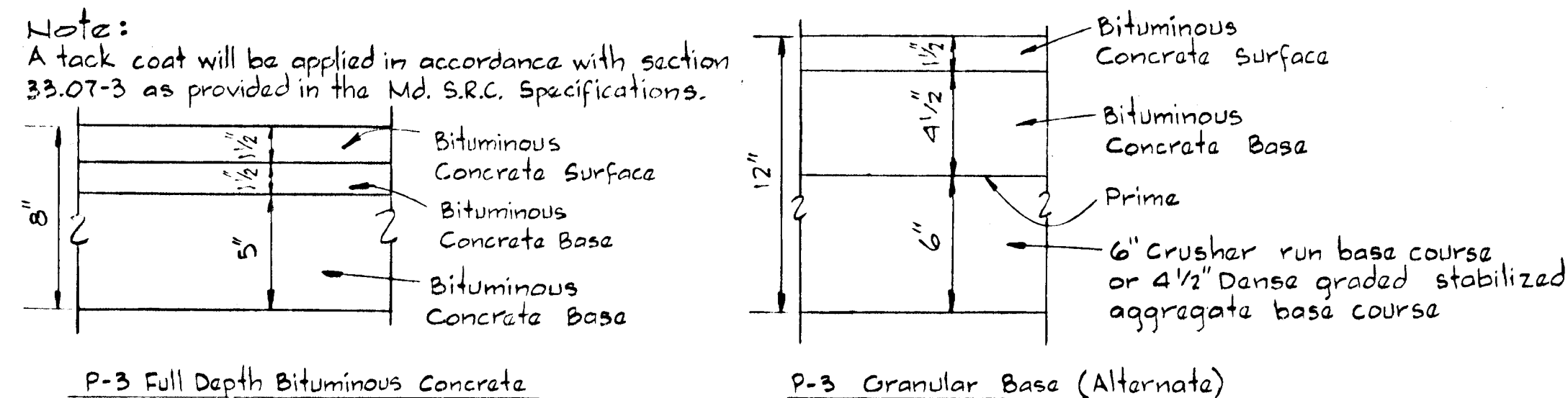


PLAN
 SURVEYED, PLOTTED, CHECKED, & M.A. NOTED BY DATE

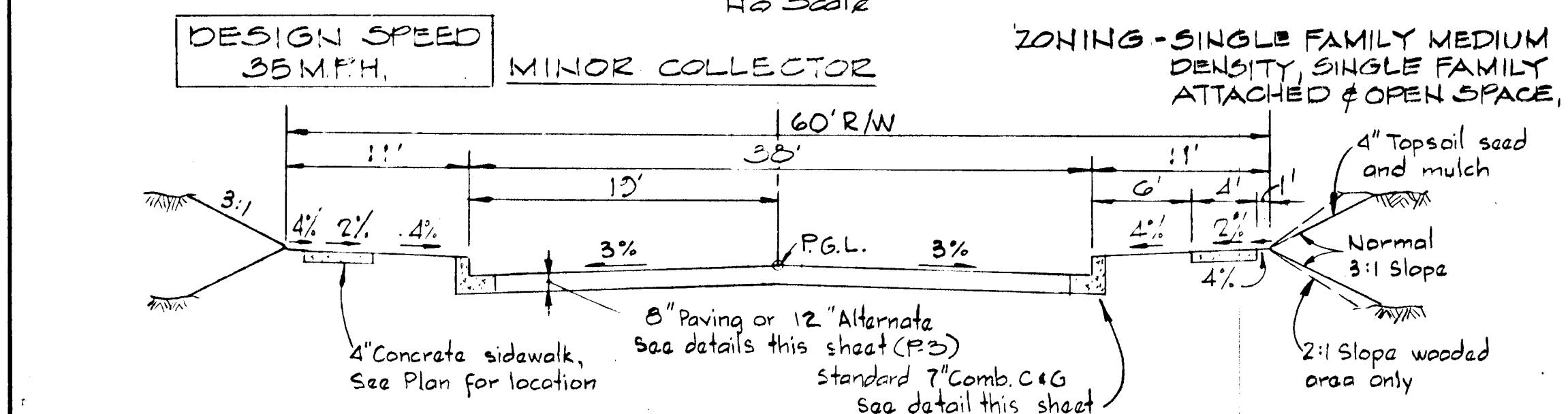
PROFILE
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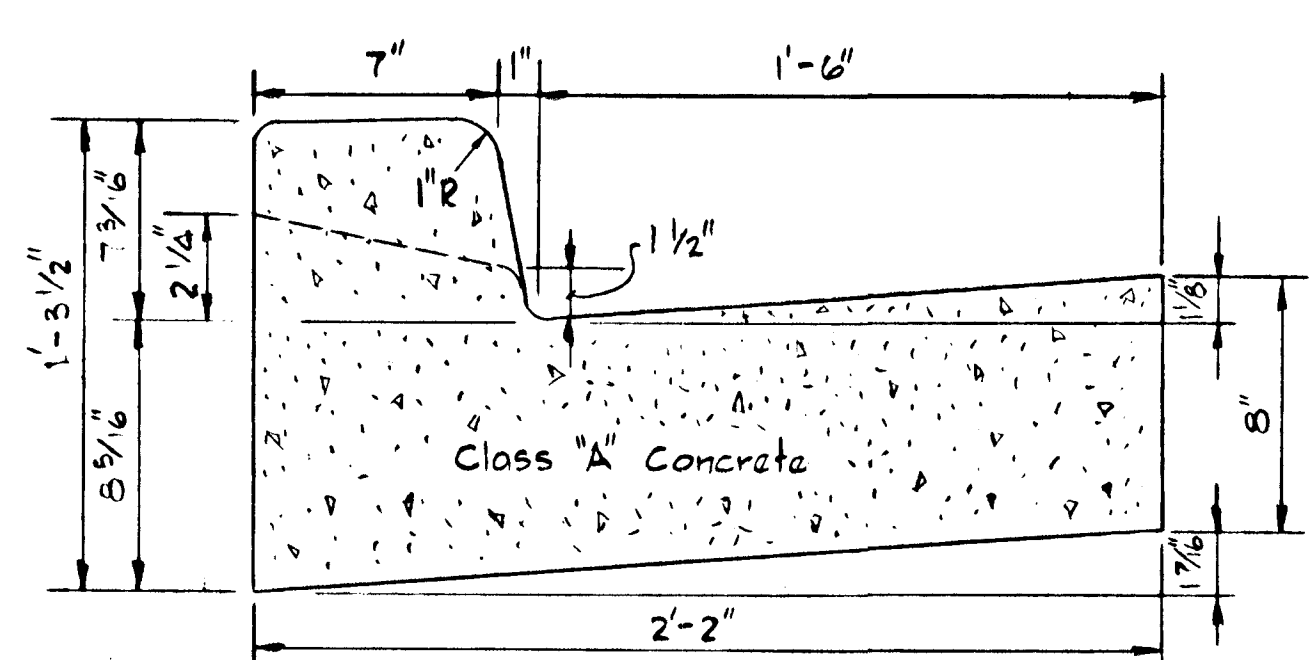
TYPICAL SECTION - BRIGHT PASSAGE STA 0+50 TO STA 1+02.1



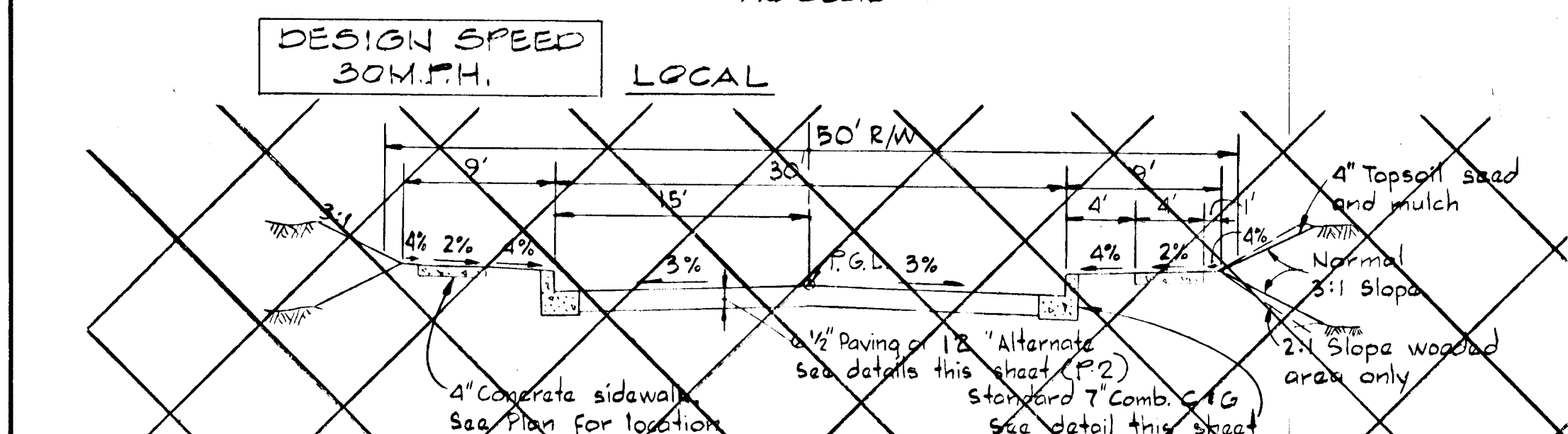
TYPICAL PAVING SECTION



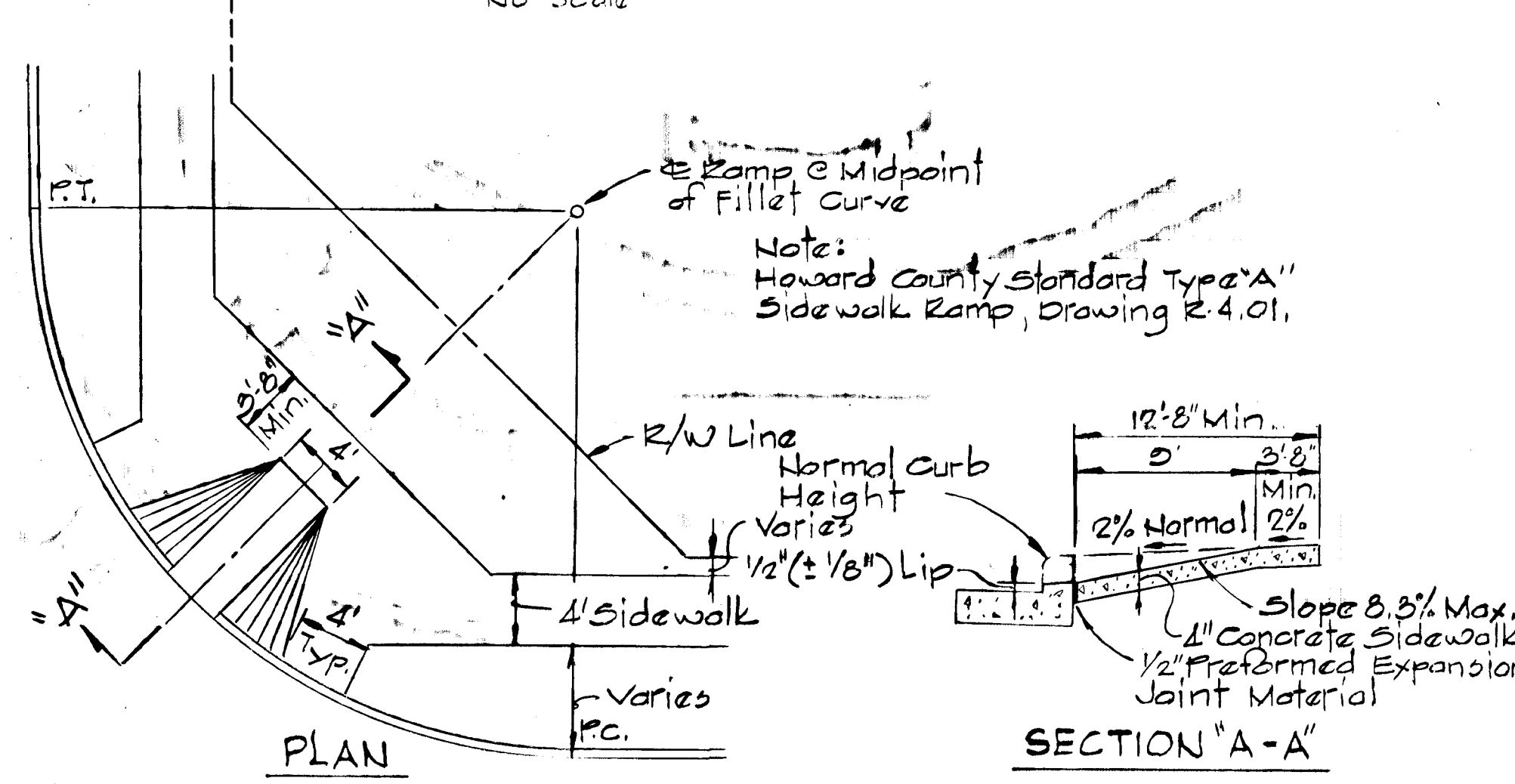
TYPICAL SECTION - BRIGHT PASSAGE STA 2+97 TO STA 5+89



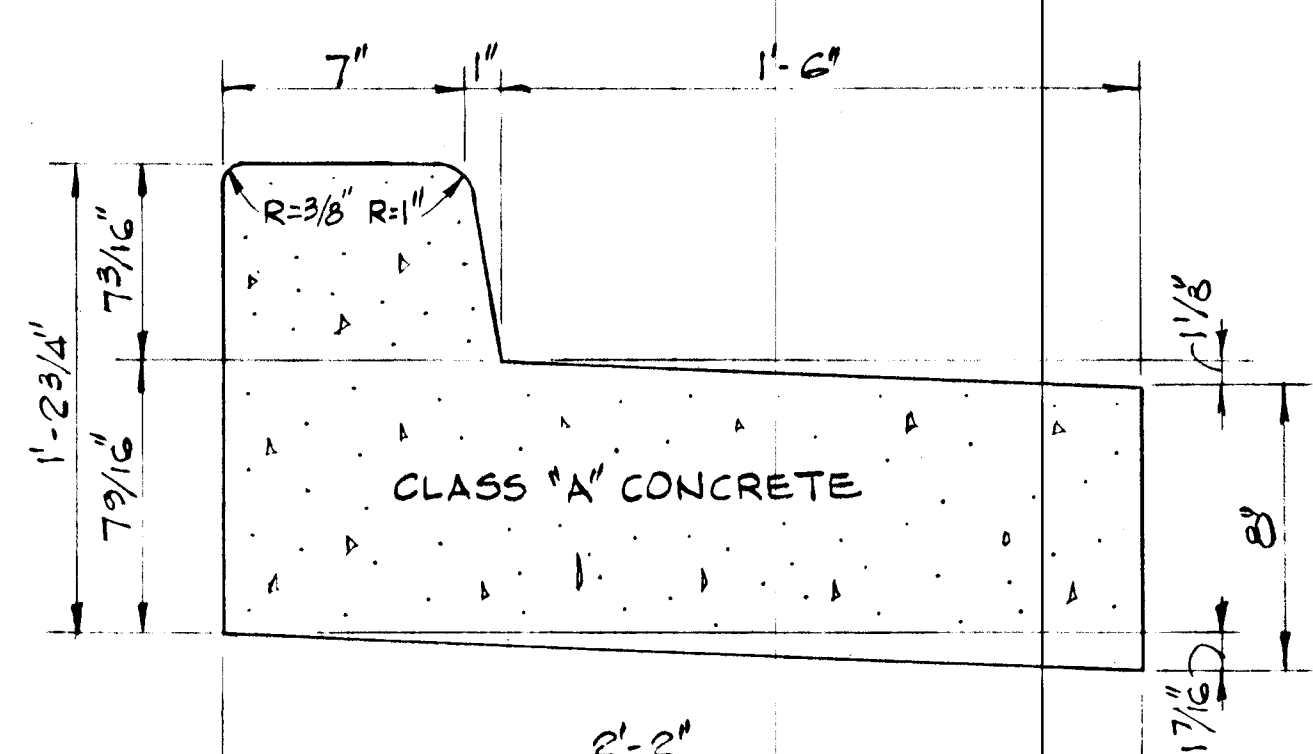
STANDARD 7" COMBINATION CURB & GUTTER



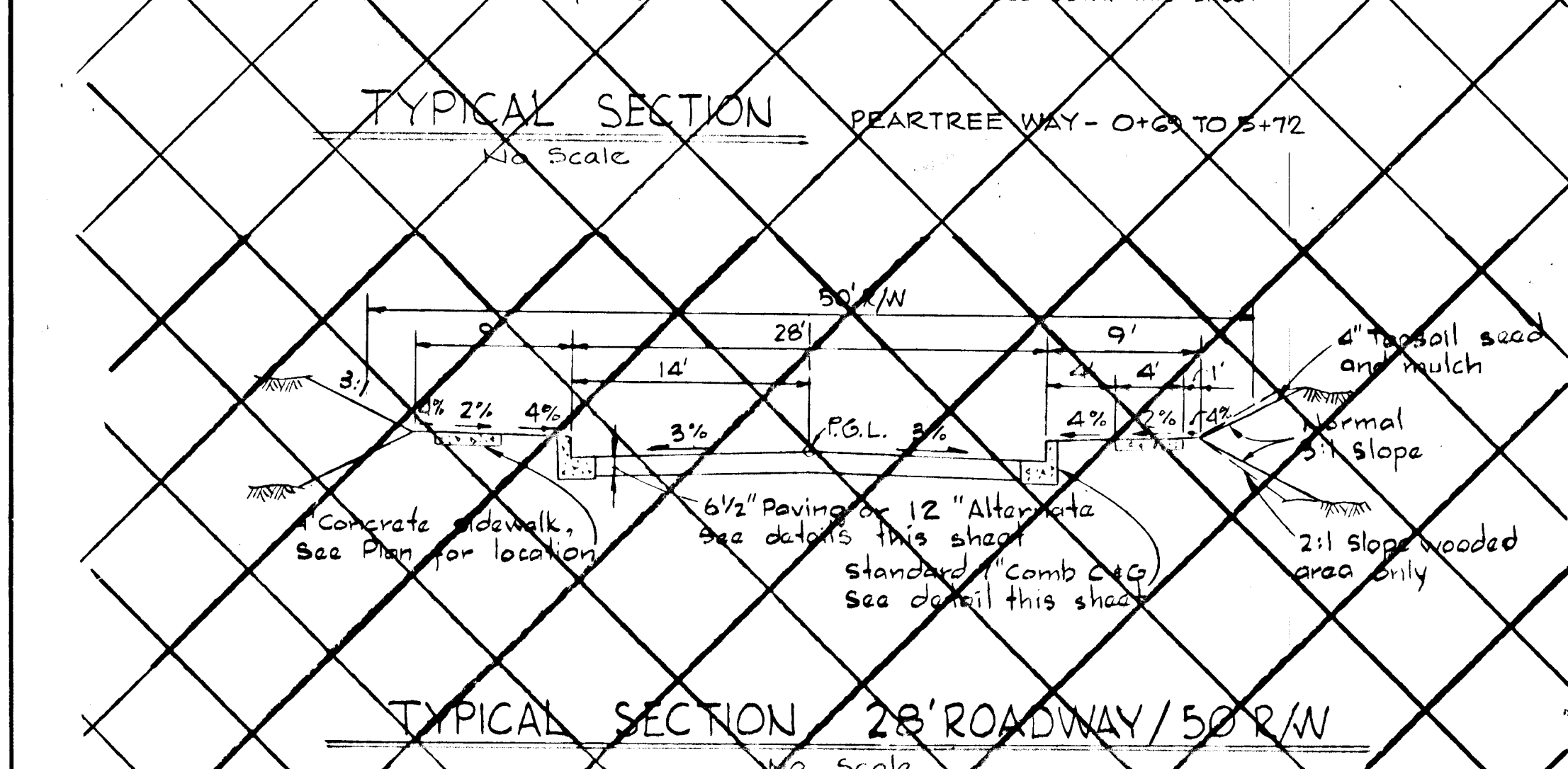
TYPICAL SECTION - PEARTREE WAY - 0+03 TO 5+72



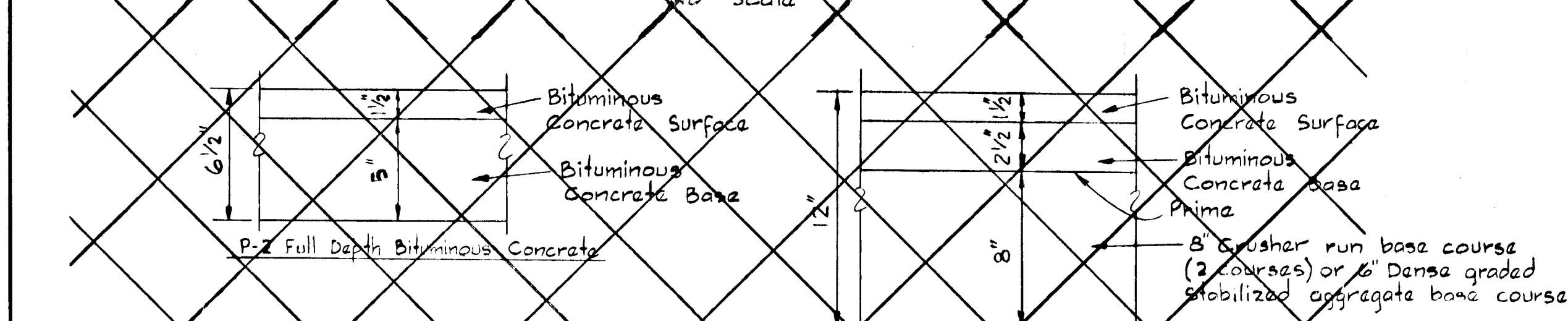
WHEEL CHAIR RAMP DETAIL



REVERSE 7" COMBINATION CURB & GUTTER



TYPICAL SECTION - 28' ROADWAY / 50' R/W



TYPICAL PAVING SECTION

REV. DATE	REV. NO.	REVISION DESCRIPTION
3/27/84	2	As Per DPW and S.C.G. Comments
10/12/83	1	As Per DPW and S.C.G. Comments

COLUMBIA
 5th ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

OWNER AND DEVELOPER
 THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION
 THE ROUSE BUILDING
 COLUMBIA, MARYLAND 21144

PROJECT AREA
 VILLAGE OF HICKORY RIDGE
 SECTION 3 AREA 6

PROJECT TITLE
ROADWAY DETAILS

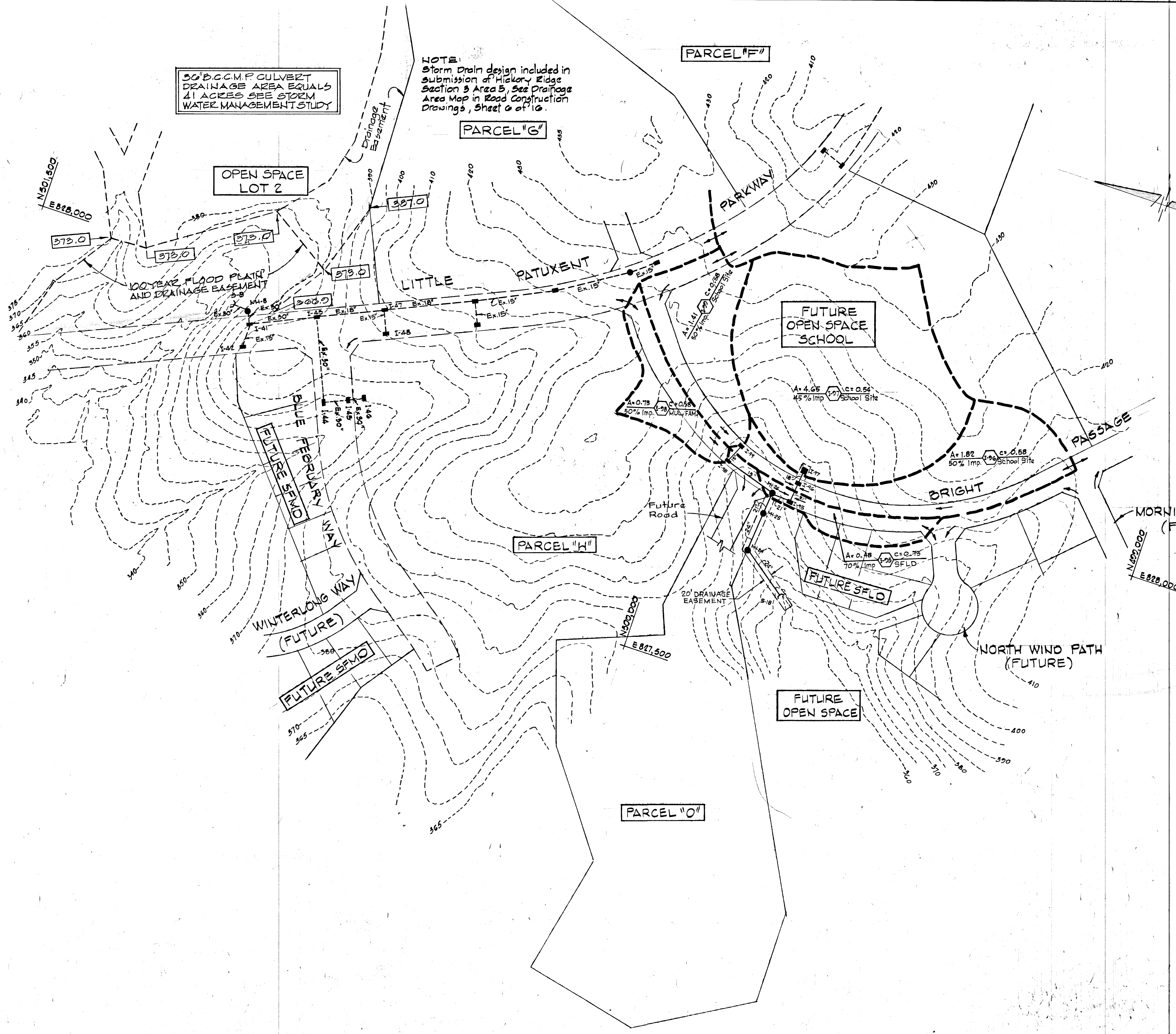
SCALE: AS SHOWN DATE

WHITMAN, REQUARDT AND ASSOCIATES
 ENGINEERS
 2315 ST. PAUL STREET
 BALTIMORE, MARYLAND 21218

Kenneth A. McCord
 Registered Engineer
 No. 1974

50' B.C.C.M.P. CULVERT
 DRAINAGE AREA EQUALS
 4.1 ACRES SEE STORM
 WATER MANAGEMENT STUDY

NOTE:
 Storm Drain design included in
 submission of Hickory Ridge
 Section 3 Area 5, See Drainage
 Area Map in Road Construction
 Drawings, Sheet 6 of 16.



Rev. Date	Rev. No.	Revision Description
3/27/84	2	As Per D.P.W. and S.C.S. Comments
10/12/83	1	As Per D.P.W. and S.C.S. Comments

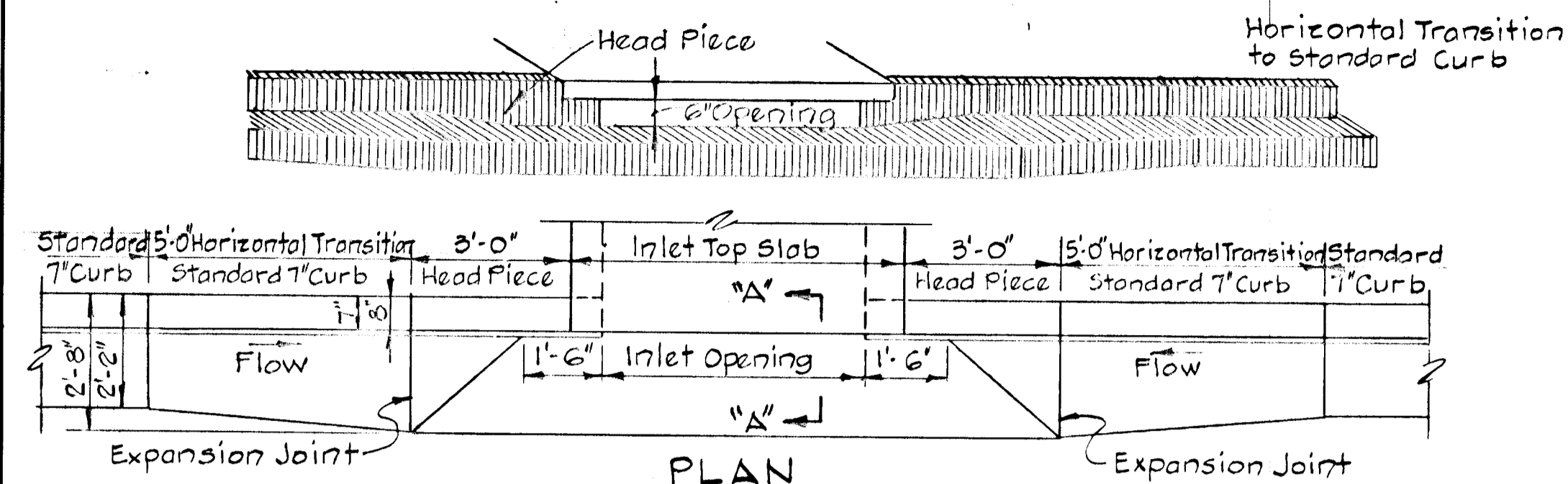
COLUMBIA
 5TH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 OWNER AND DEVELOPER
 HOWARD RESEARCH AND DEVELOPMENT CORPORATION

PROJECT AREA
 VILLAGE OF HICKORY RIDGE
 SECTION 3 AREA 6

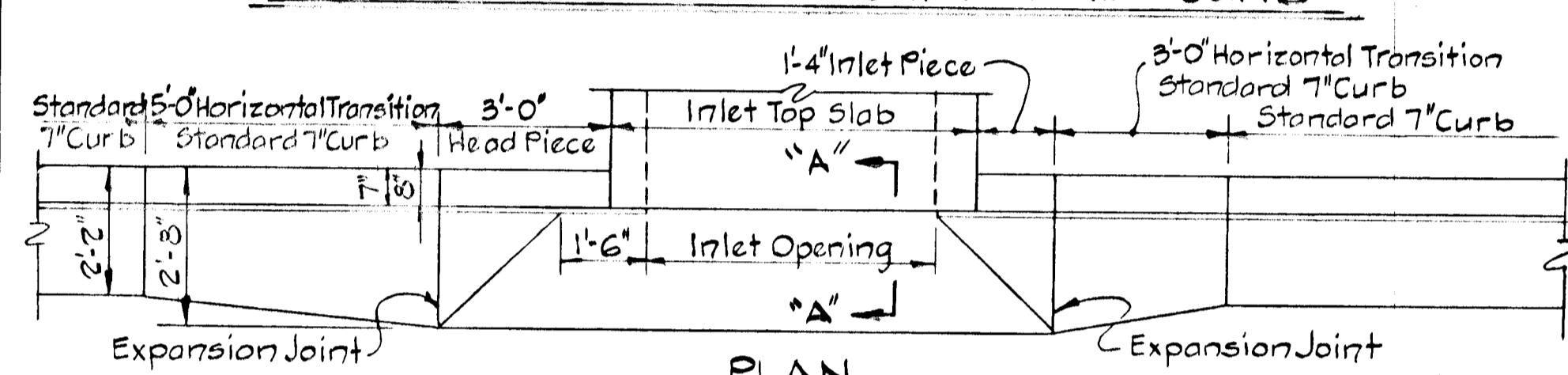
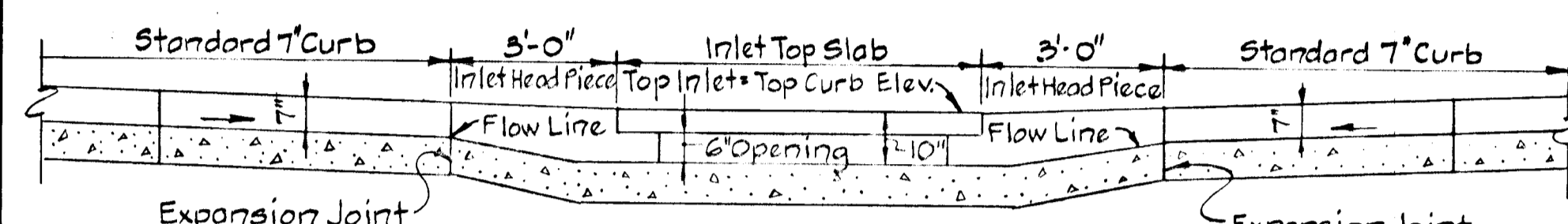
PROJECT TITLE
DRAINAGE AREA MAP

SCALE: 1"=100' DATE:
 WHITMAN, REQUARDT AND ASSOCIATES
 ENGINEERS
 2315 ST. PAUL STREET
 BALTIMORE, MARYLAND 21218

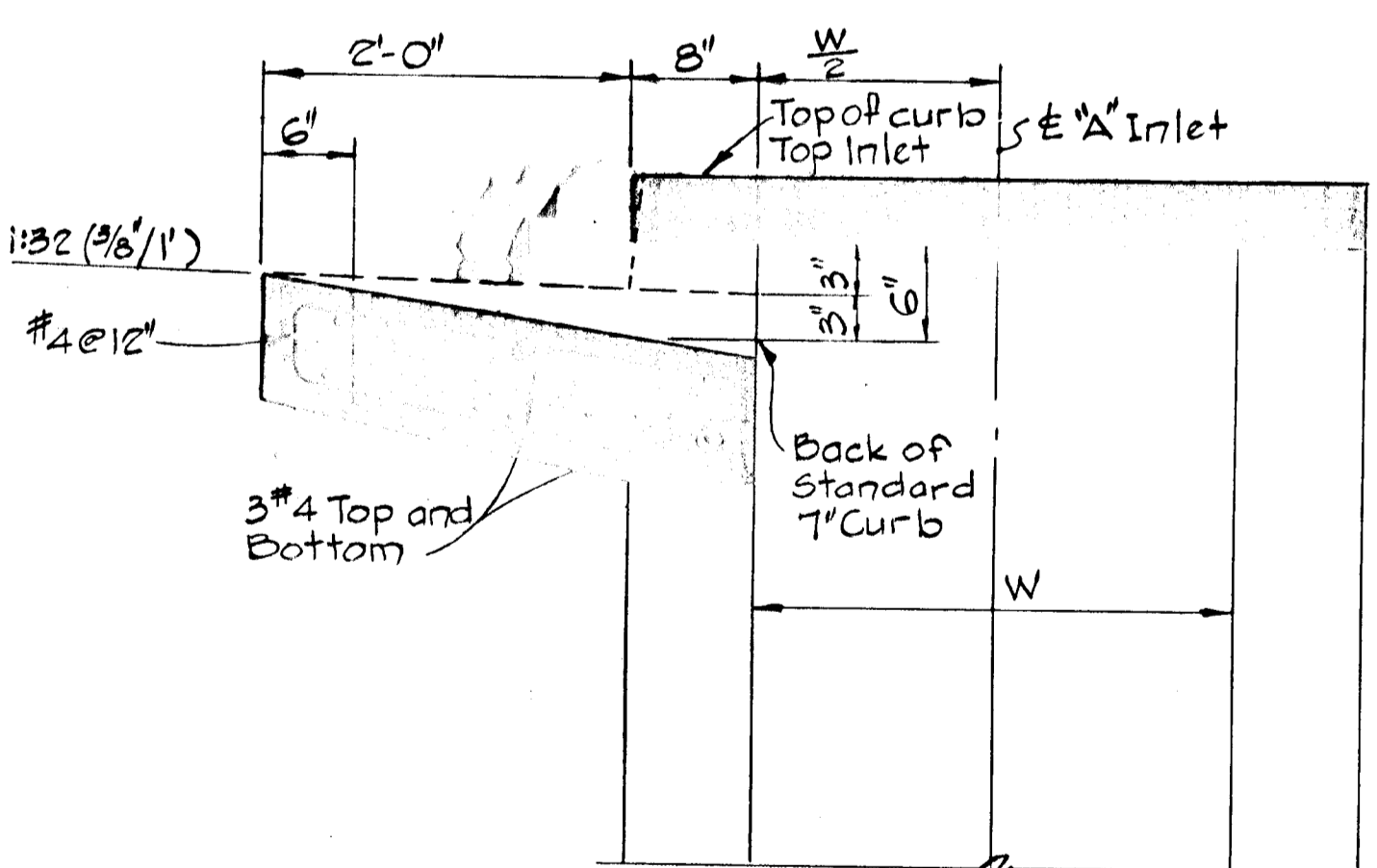
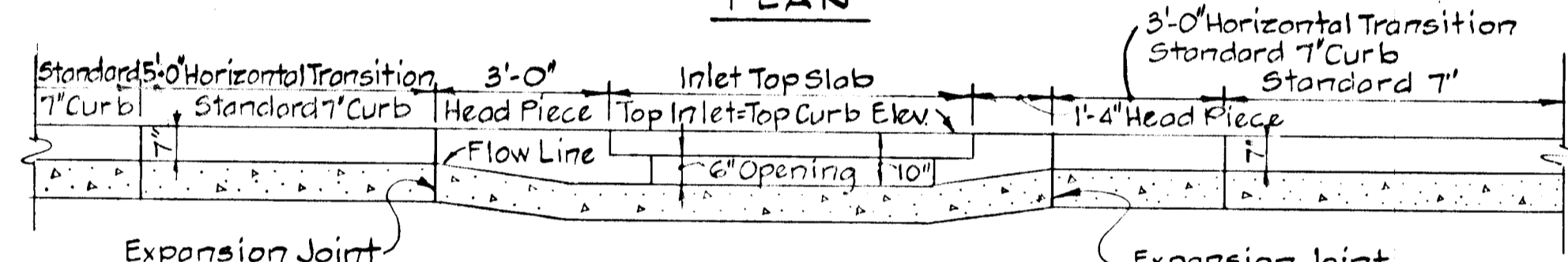
Kenneth A. McCord
 KENNETH A. MCCORD
 Registered Engineer
 No. 1974



SECTION ALONG FLOW LINE
SUMPED "A" INLETS - STANDARD CURB

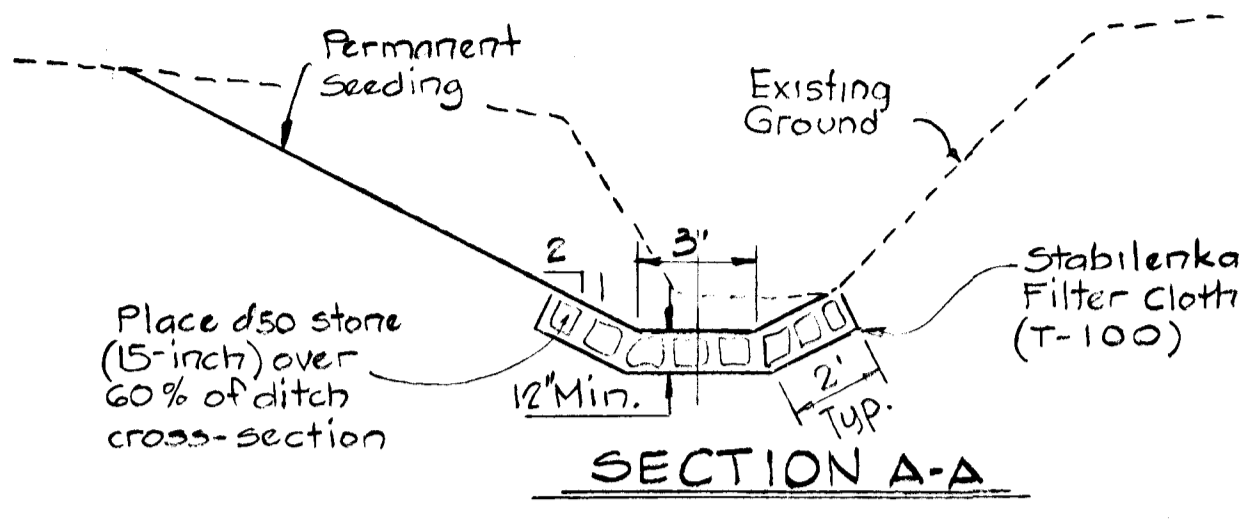


SECTION ALONG FLOW LINE
"A" INLETS - STANDARD CURB

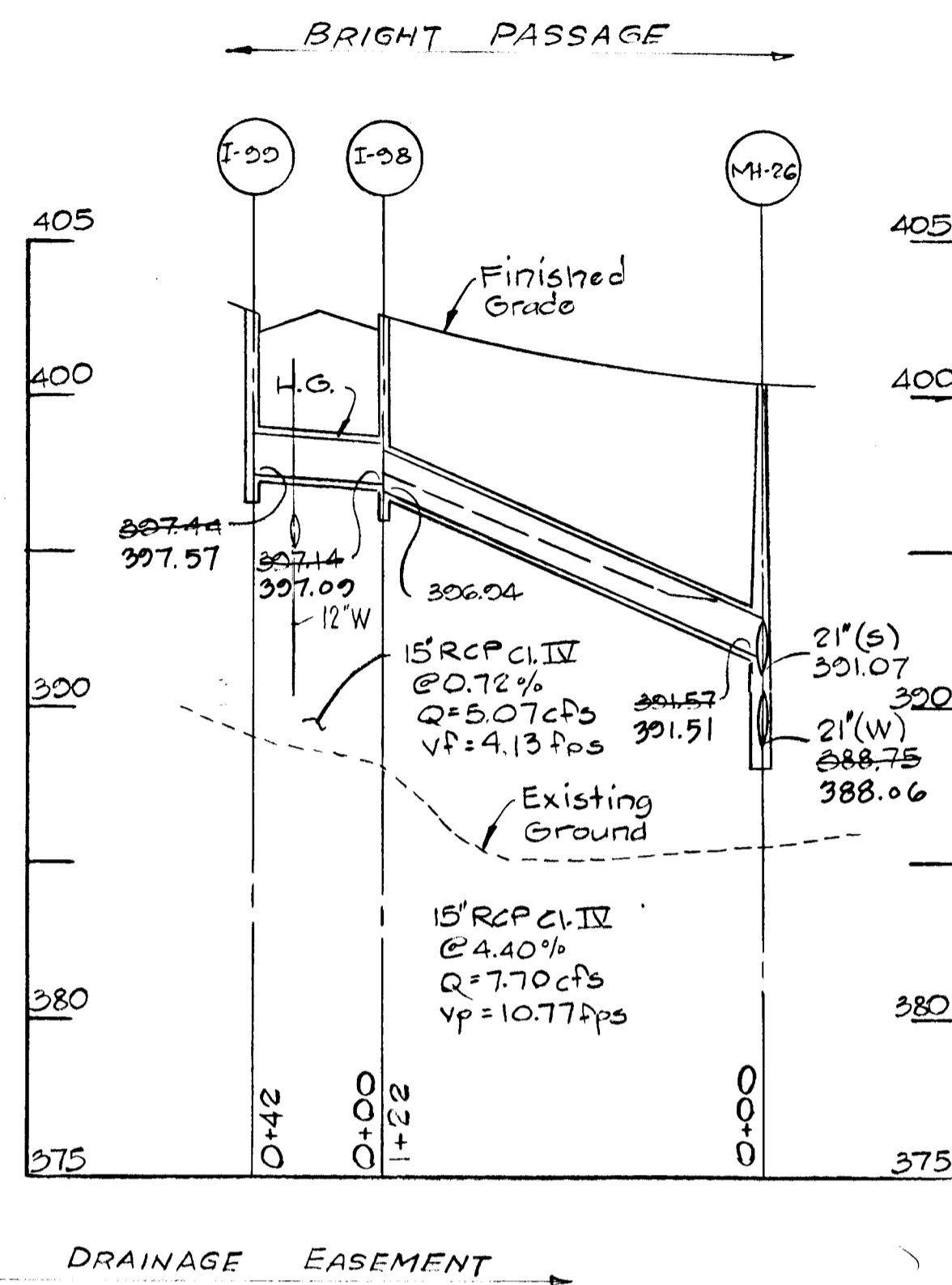
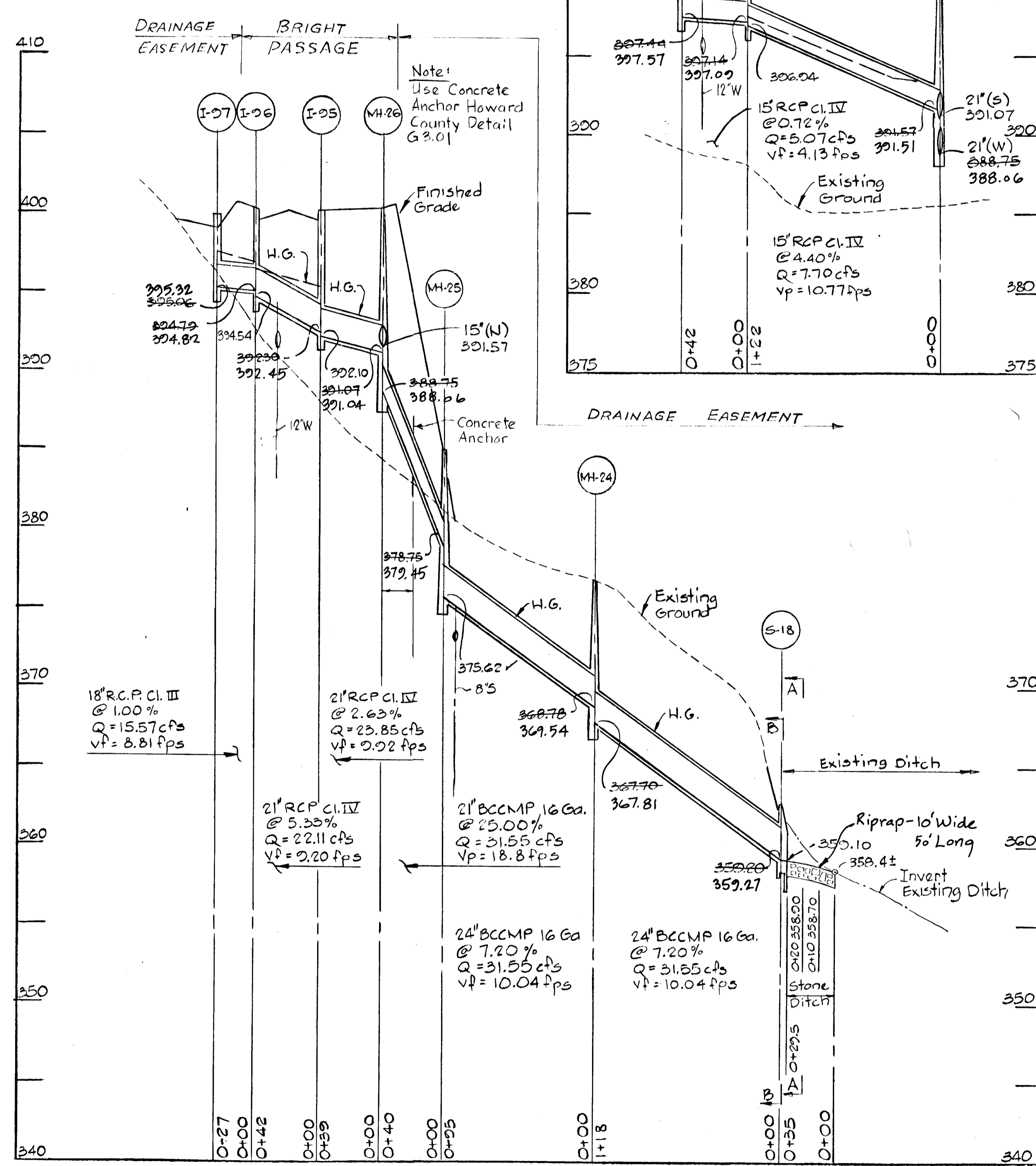


SECTION "A-A"
"A" INLET - STANDARD CURB

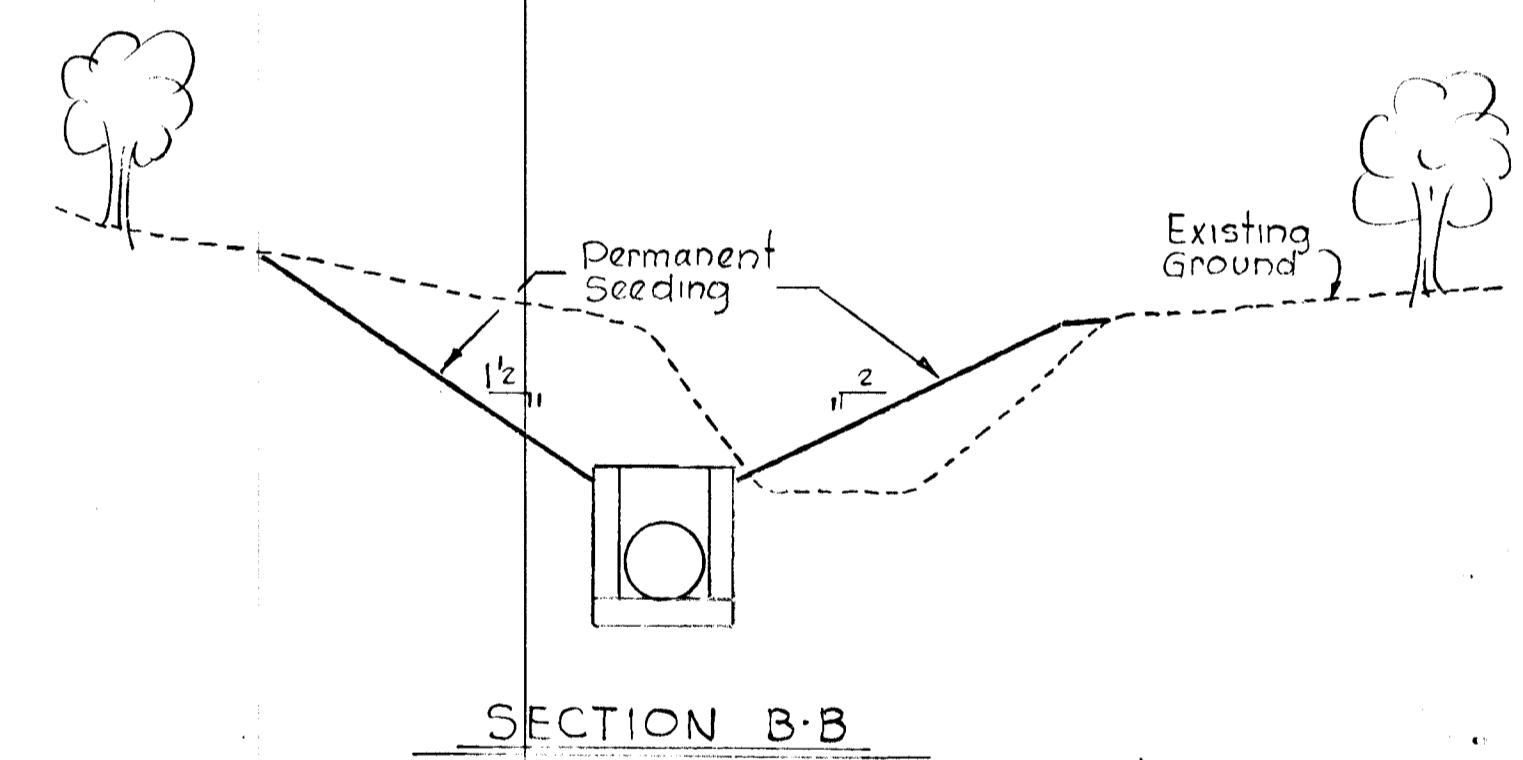
Note: For "A" Inlet dimensions and structural details see standard Howard County Standards SP 4.01 & SD 4.02.



SECTION A-A



Note:
 The type of bedding used for storm drain pipe shall be Class C, shaped subgrade. If rock is encountered, the trench invert should be overexcavated, ginchies, and the overexcavation of ginchies refilled with granular material.



SECTION B-B

8/17/84	2	As Per DPW and S.C.S. Comments
10/12/85	1	As Per DPW and S.C.S. Comments
Revision	Rev. No.	Revision Description

COLUMBIA
 5TH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

OWNER AND DEVELOPER
 HOWARD RESEARCH AND DEVELOPMENT CORPORATION

PROJECT AREA
 VILLAGE OF HICKORY RIDGE
 SECTION 3 AREA G

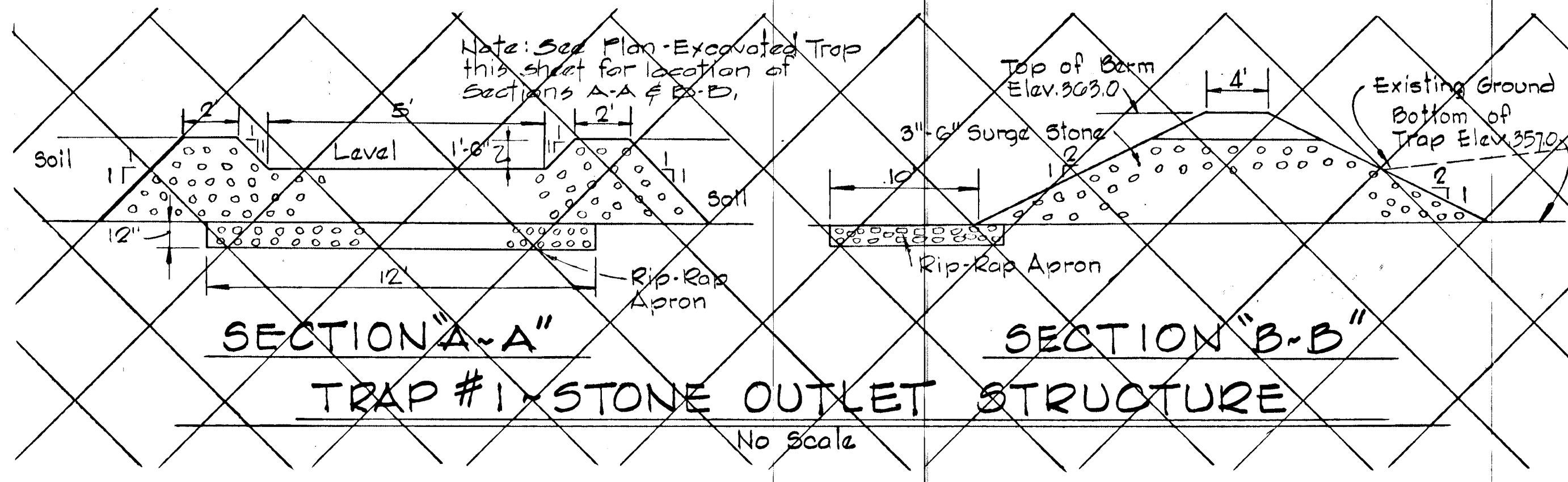
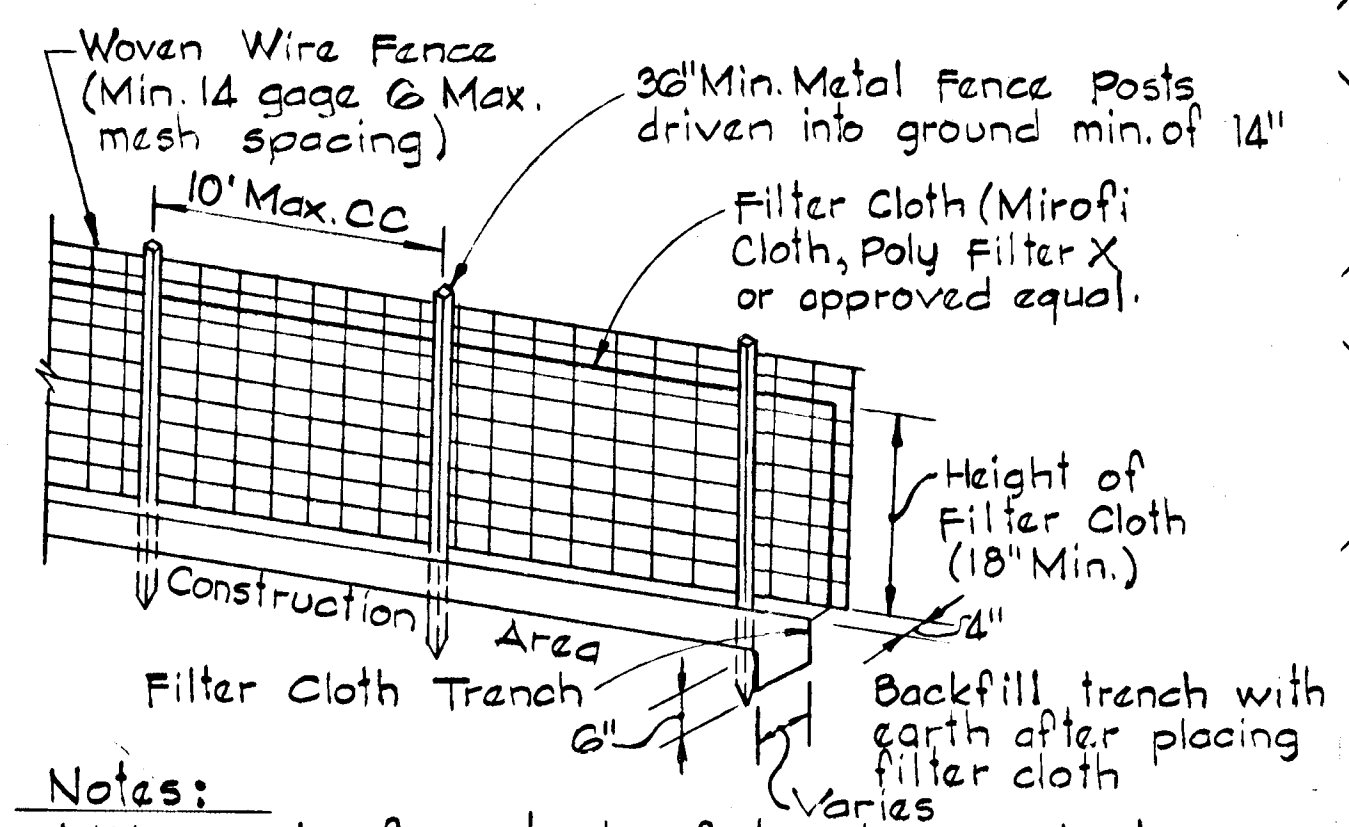
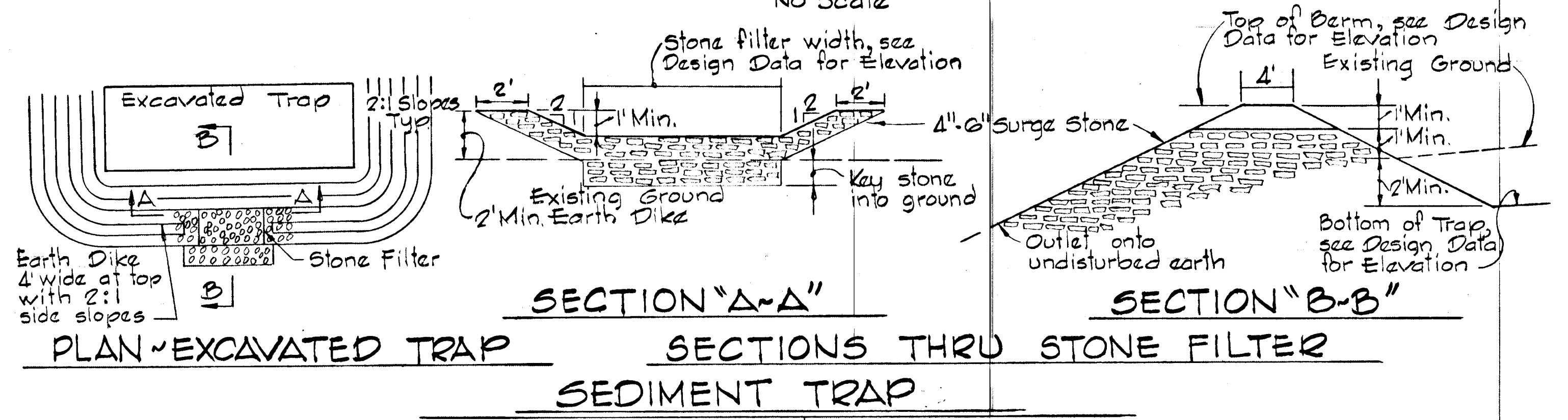
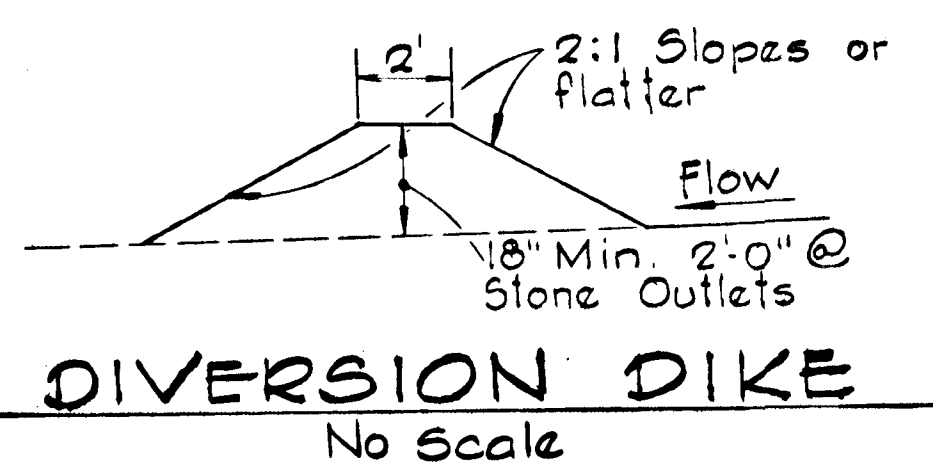
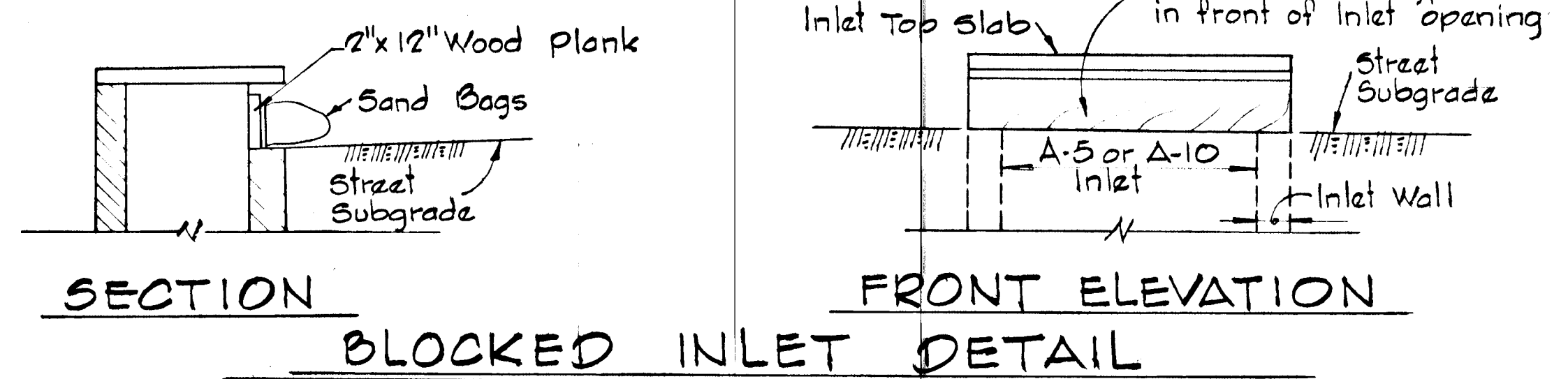
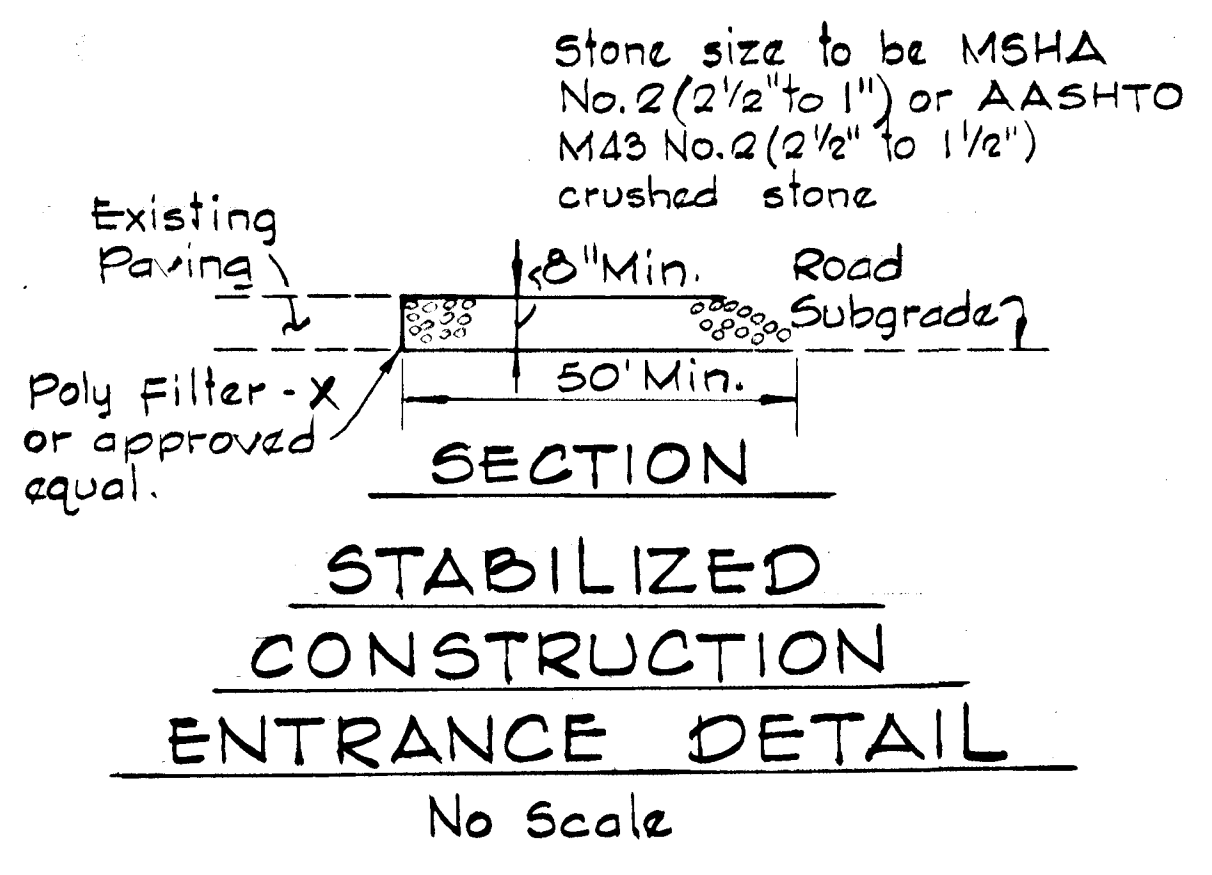
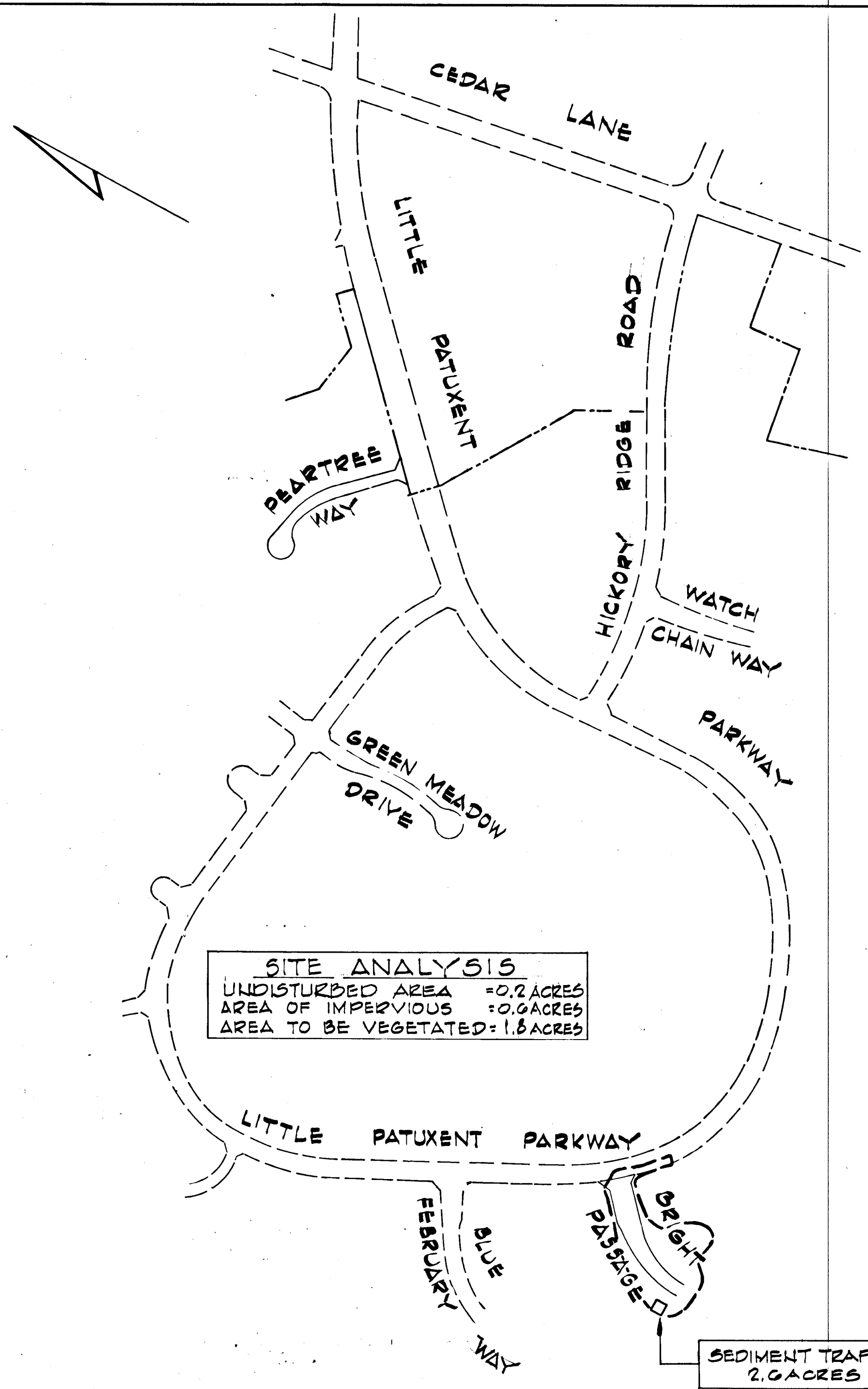
PROJECT TITLE
STORM DRAIN DETAILS AND PROFILES

SCALE: AS SHOWN DATE:

WHITMAN, REQUARDT AND ASSOCIATES
 ENGINEERS
 2315 ST. PAUL STREET
 BALTIMORE, MARYLAND 21218

Kenneth A. McCord
 KENNETH A. MCCORD
 Registered Engineer
 No. 1074

AS-BUILT SURVEY CERTIFIED BY
 KENNETH A. MCCORD REG.-P.E.
 NO 1974 ON AUG. 21, 1985



DRAINAGE AREA MAP
 Scale: 1" = 400'

- SEQUENCE OF CONSTRUCTION**
1. Obtain Grading Permit.
 2. Construct stabilized construction entrance on Bright Passage, Bright Passage.
 3. Clear and grub areas for sediment control facilities only.
 4. Construct sediment trap, diversion dikes and silt fence.
 5. Stabilize diversion dikes with temporary seeding, see specifications.
 6. Strip and rough grade limits of construction.
 7. Construct all utilities.
 8. Fine grade roads, construct curbs and gutter, side walks and seed disturbed areas.
 9. Pave roads.
 10. Remove all sediment control facilities after grass is established in the contributing drainage areas. Stabilize sediment trap removal area; see Permanent Seeding Notes.

- Notes:**
1. Woven wire fence to be fastened to fence posts by use of wire ties.
 2. Filter cloth to be fastened securely to woven wire fence by use of wire ties spaced every 24" x 24"

- PERMANENT SEEDING NOTES**
- 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% Merion Blue Grass, 55% Creeping Red Fescue, 5% Red Top
- Mulch Required - Mulch area with straw at the rate of 75 lbs/1000² or 1.5 tons/acre. Anchor with asphalt at the rate of 480 gallons/acre. Stabilization of slopes steeper than 3:1 shall be planted with crown-vetch at the rate of 20 lbs/acre or 0.40 lbs/1000² and Kentucky 31 Tall Fescue at the rate of 40 lbs/acre or 1 lb/1000².

- SEDIMENT CONTROL NOTES**
1. See sequence of construction on this sheet.
 2. The sediment control measures shall be constructed as shown on these drawings.
 3. All temporary sediment control devices shall be seeded as specified in Notes 4 and 5. All other surfaces to be permanently seeded. See specifications on this sheet.
 4. The temporary sediment control devices shall be hydroseeded as follows:
 a. Ground Limestone (50 lbs/1000²)
 b. Fertilizer 10-10-10 (25 lbs/1000²)
 c. Seed - Italian Ryegrass (40 lbs/acre)
 5. Mulch with straw at the rate of 50 lbs/1000² or one ton/acre. Anchor with asphalt at the rate of 480 gallons/acre.
 6. Prior to starting any work the contractor shall notify Howard County Sediment Control Division at least 24 hours in advance.

Rev. Date	Rev. No.	Revision Description
3/27/84	2	As Per D.P.W. and S.C.S. Comments
10/12/83	1	As Per D.P.W. and S.C.S. Comments

COLUMBIA
 5th ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 OWNER AND DEVELOPER
 HOWARD RESEARCH AND DEVELOPMENT CORPORATION

PROJECT AREA
 VILLAGE OF HICKORY RIDGE
 SECTION 3 AREA G

PROJECT TITLE
 SEDIMENT CONTROL DETAILS

Reviewed for HOWARD S.C.D.
 And meets technical requirements
 James M. Miller 5-7-84
 Date
 U.S. SOIL CONSERVATION DISTRICT

This development plan is approved for soil erosion and sediment control by the Howard Soil Conservation District.
 Approved: Joseph K. Anzures 5-7-84
 Date
 HOWARD S.C.D.

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
 KENNETH A. MCCORD P.E. 1074
 8-23-83
 Date

CERTIFICATION BY THE DEVELOPER
 "I certify that all development and/or construction will be done according to these plans of development and 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."
 Walter E. Woodford
 WALTER E. WOODFORD
 8-23-83
 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."
 Walter E. Woodford
 WALTER E. WOODFORD
 8-23-83
 Date

SCALE: AS SHOWN DATE:
 WHITMAN, REQUARDT AND ASSOCIATES
 ENGINEERS
 7315 ST. PAUL STREET
 BALTIMORE, MARYLAND 21218
 Kenneth A. McCord
 KENNETH A. MCCORD
 Registered Engineer
 No. 1074
 8-23-83
 Date

