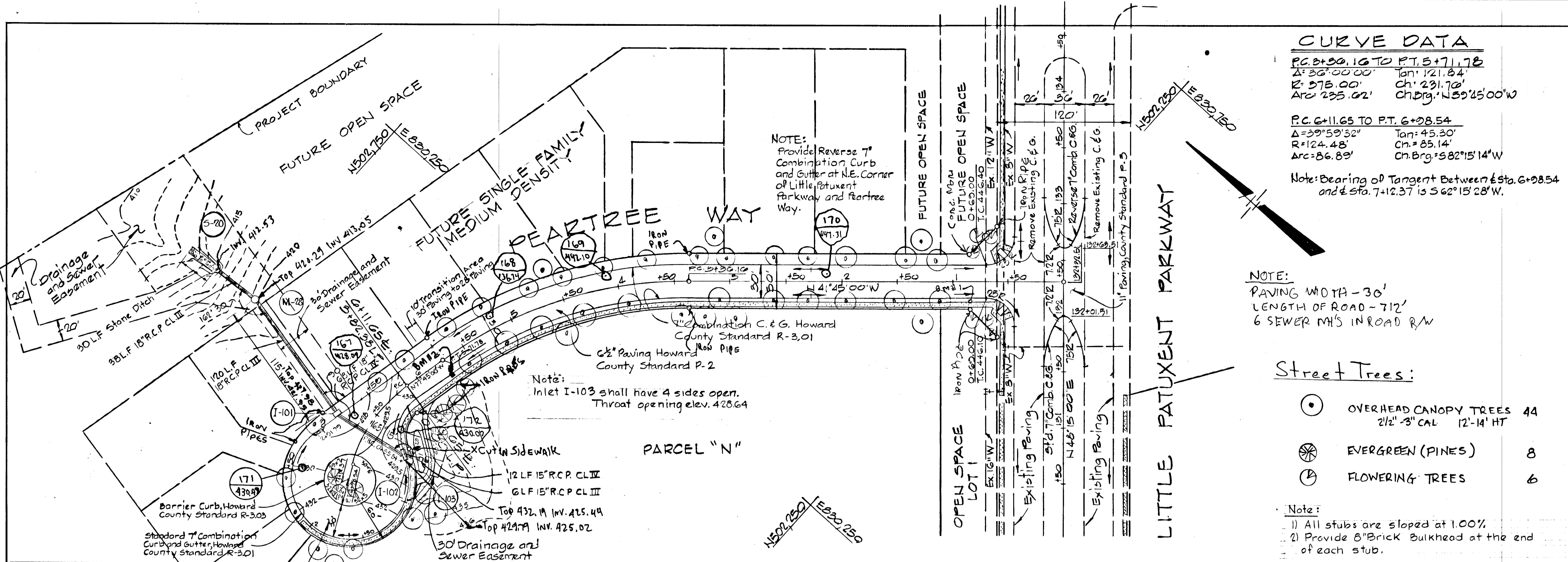


DATE
BY
SURVEYED
NOTE BOOK
NO.

DATE
BY
SURVEYED
NOTE BOOK
NO.



NOTE:
SEE HOWARD COUNTY STANDARD
R-5.04 FOR CUL-DE-SAC CURVE
DATA.

PLAN
Scale: 1"=50'

CURVE DATA

P.C. 6+00.16 TO P.T. 5+71.78
 $\Delta = 36^{\circ}00'00''$ Tan: 121.84'
 $R = 575.00'$ Ch: 231.70'
 Arc: 235.02' Ch.Brg: $S 55^{\circ}45'00'' W$

P.C. 6+11.65 TO P.T. 6+08.54
 $\Delta = 39^{\circ}59'32''$ Tan: 45.30'
 $R = 124.48'$ Ch: 85.14'
 Arc: 86.89' Ch.Brg: $S 82^{\circ}15'14'' W$

Note: Bearing of Tangent Between Sta. 6+08.54
 and Sta. 7+12.37 is $S 62^{\circ}18'28'' W$.

NOTE:
PAVING WIDTH - 30'
LENGTH OF ROAD - 712'
6 SEWER MHS IN ROAD RW

Street Trees:

- OVERHEAD CANOPY TREES 44
2 1/2" - 3" CAL 12'-14' HT
- ⊗ EVERGREEN (PINES) 8
- ⊙ FLOWERING TREES 6

Note:
1) All stubs are sloped at 1.00%
2) Provide 8" Brick Bulkhead at the end
of each stub.

STORM DRAIN STRUCTURE SCHEDULE						
NO	TYPE	TOPEL.	INV. IN	INV. OUT	LOCATION	
I-01	A-5 Inlet (width 25)	504.01	427.55	422.55	422.55	± Inlet 192' back of L.P. Sta. 5+21.79
I-102	A-10 Inlet (width 25)	504.02	429.92	424.63	424.98	± Inlet 192' back of L.P. Sta. 0+49.03
I-103	D Inlet	504.11	429.47	425.20	425.00	See Plan & Profile
M-104	5'x4' Manhole	505.01	420.00	413.05	412.85	See Plan & Profile
S-20	Type A Headwall	505.11	415.65	412.65	412.63	See Plan & Profile

DEPARTMENT OF PUBLIC WORKS
Residing & Re... 1-26-84
 CHIEF, BUREAU OF ENGINEERING
 OFFICE OF PLANNING & ZONING
John W. McWhorter 1-12-84
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE
 AND ZONING ADMINISTRATION

NOTE: FOR EXISTING LITTLE PATUXENT PARKWAY
 PLAN AND PROFILE, SEE CONSTRUCTION
 DRAWINGS FOR VILLAGE OF CLARY'S
 FOREST SECTION 1 AREA 1 (F-73-79).

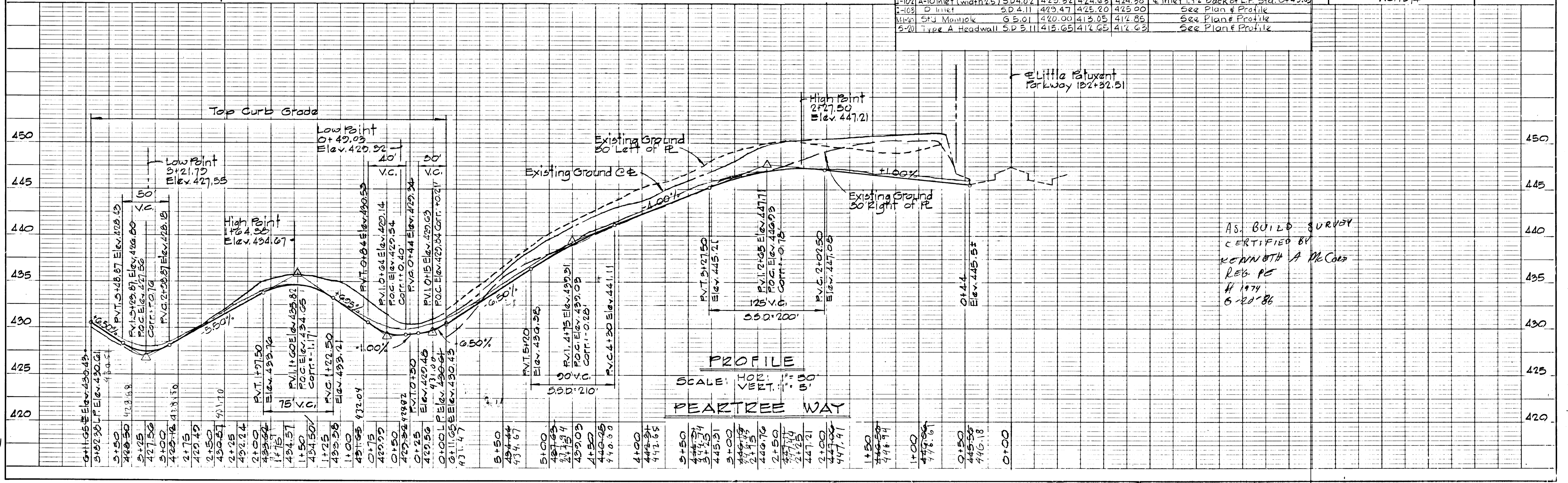
REV. DATE	REV. NO.	REVISION DESCRIPTION
1/5/84	2	Revised Islands & Sidewalk Ramps
10/12/83	1	As per D.P.W. and S.C.S. comments

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

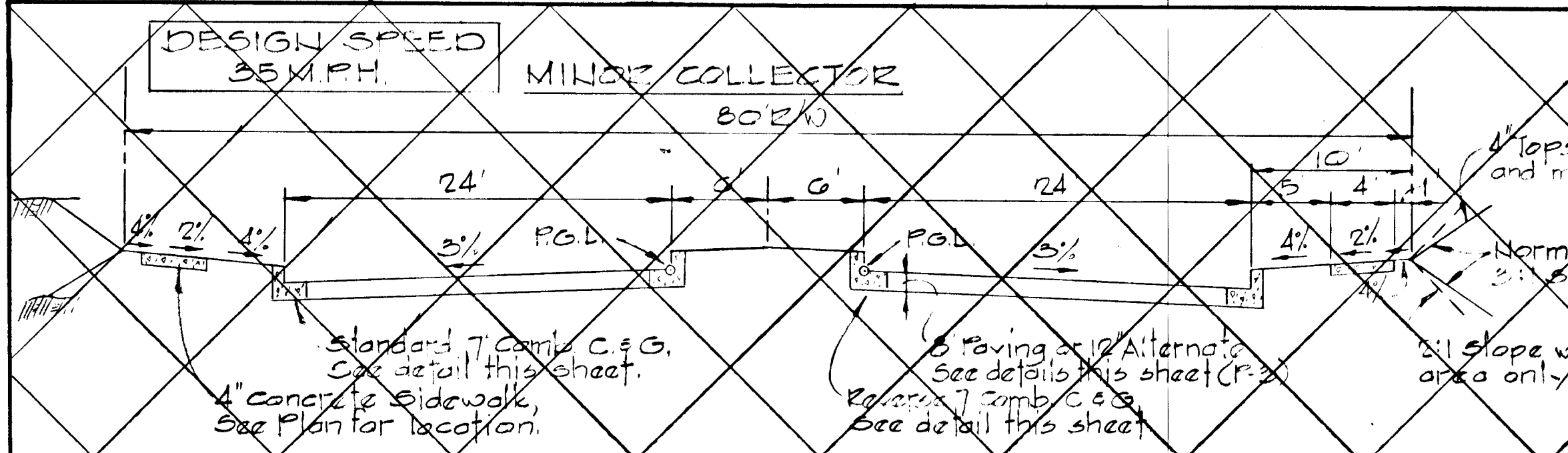
PROJECT TITLE
 PLAN AND PROFILE
 PEAR TREE WAY

SCALE: AS SHOWN DATE:
 WHITMAN, REQUARDT AND ASSOCIATES
 ENGINEERS
 BALTIMORE, MARYLAND 21218

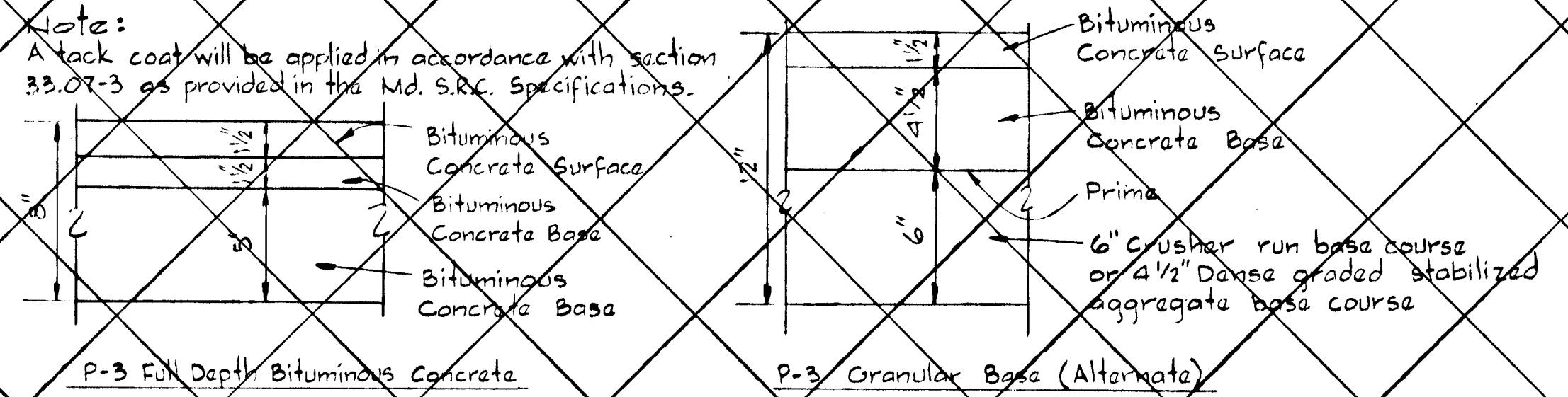
Kenneth A. McCord
 KENNETH A. MCCORD
 Registered Engineer
 No. 1074



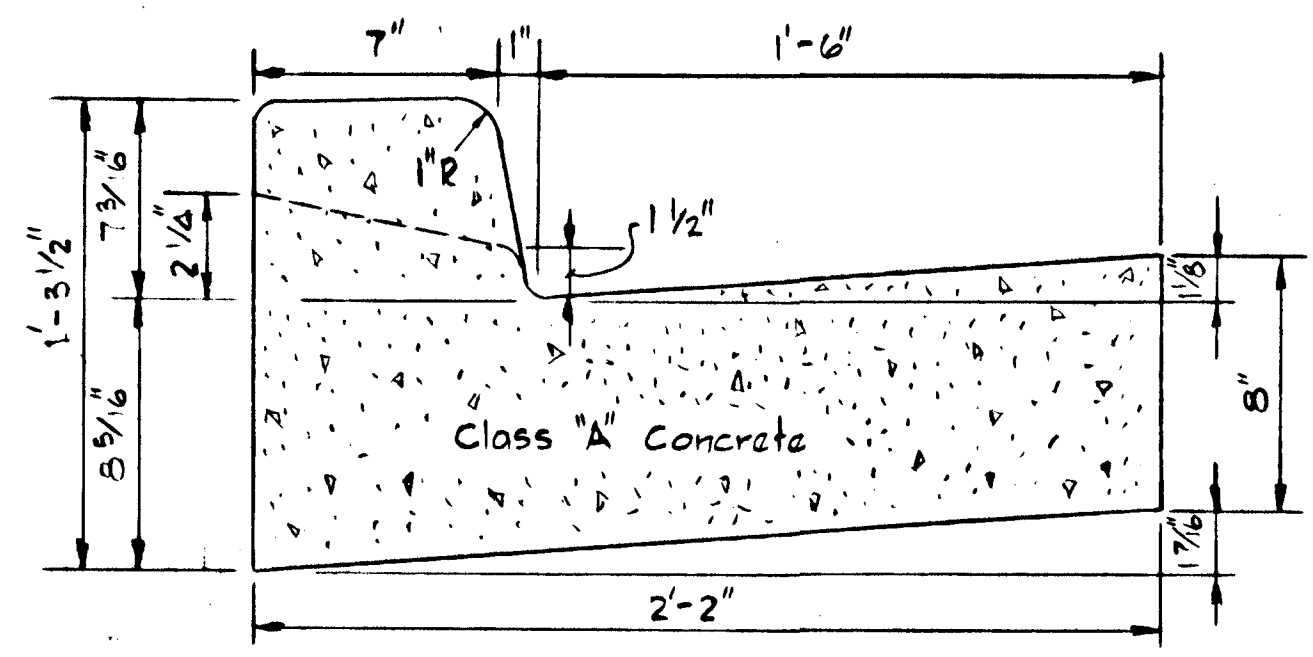
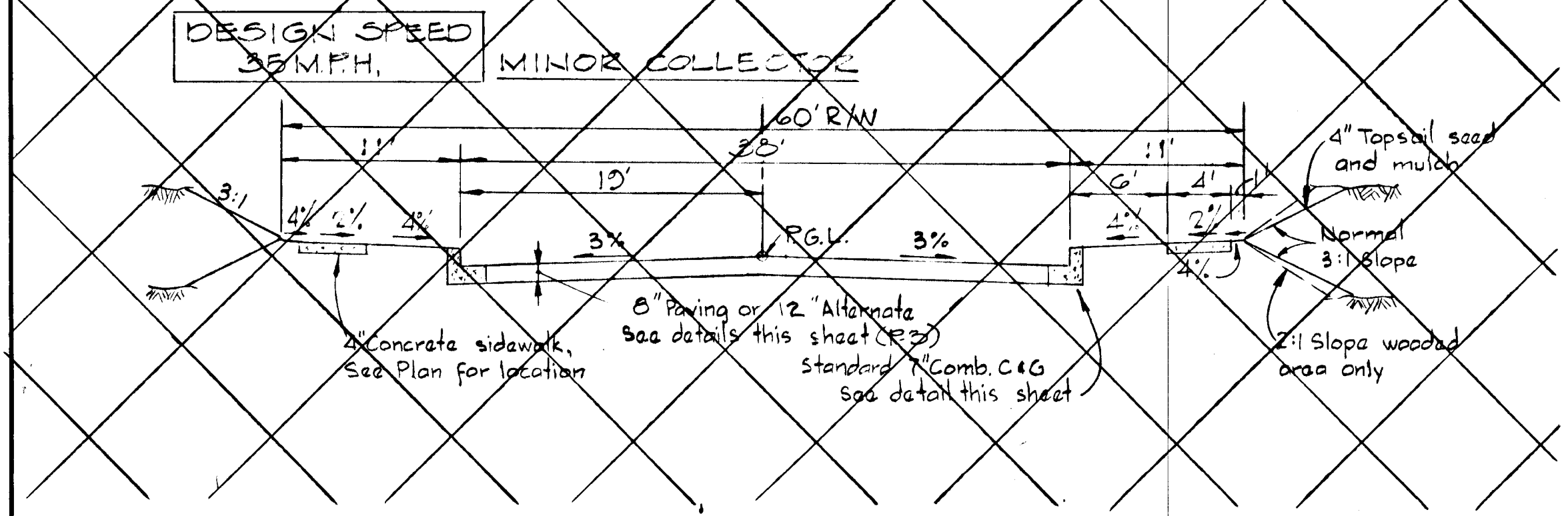
PROFILE
 SCALE: HOR. 1"=50' VERT. 1"=10'
 PEAR TREE WAY



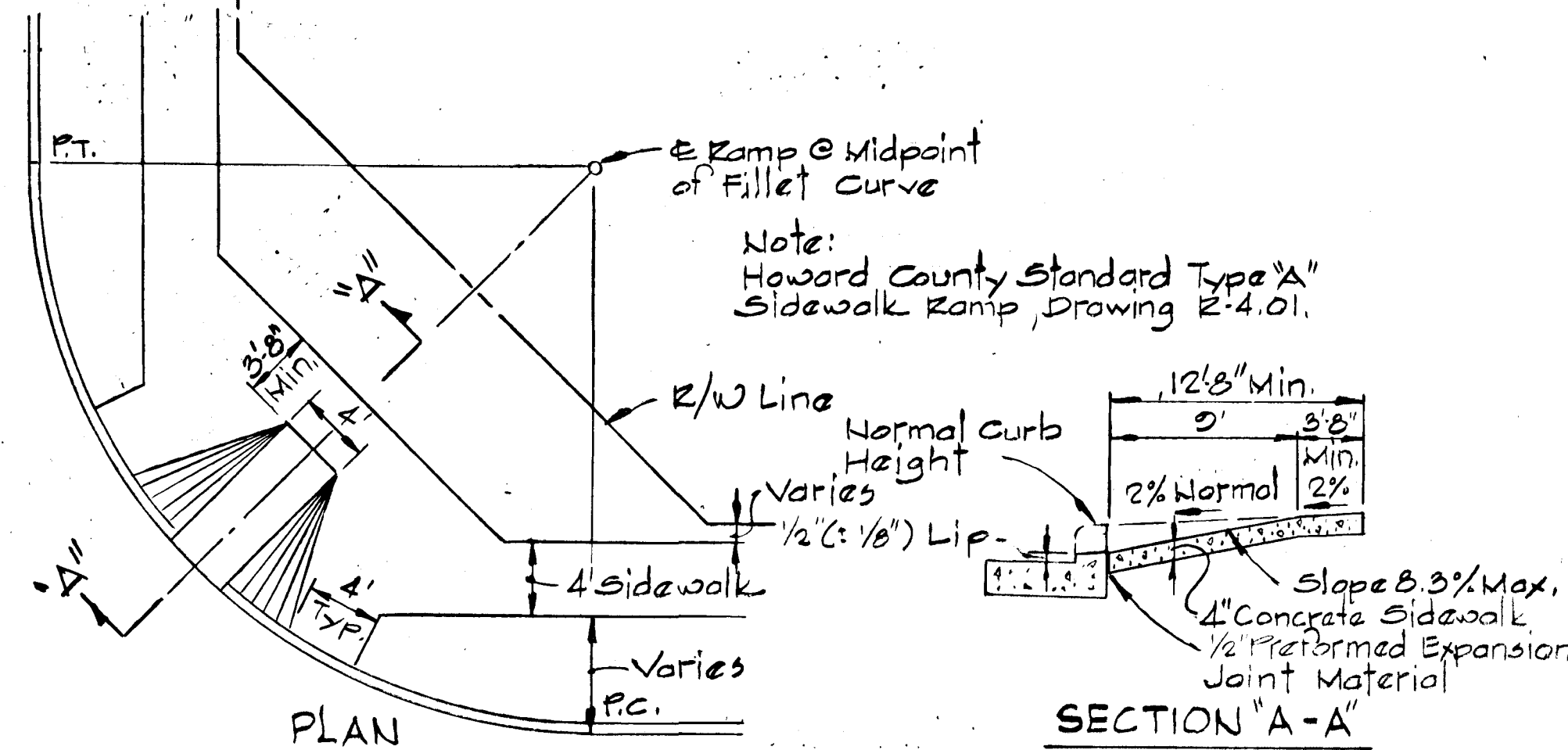
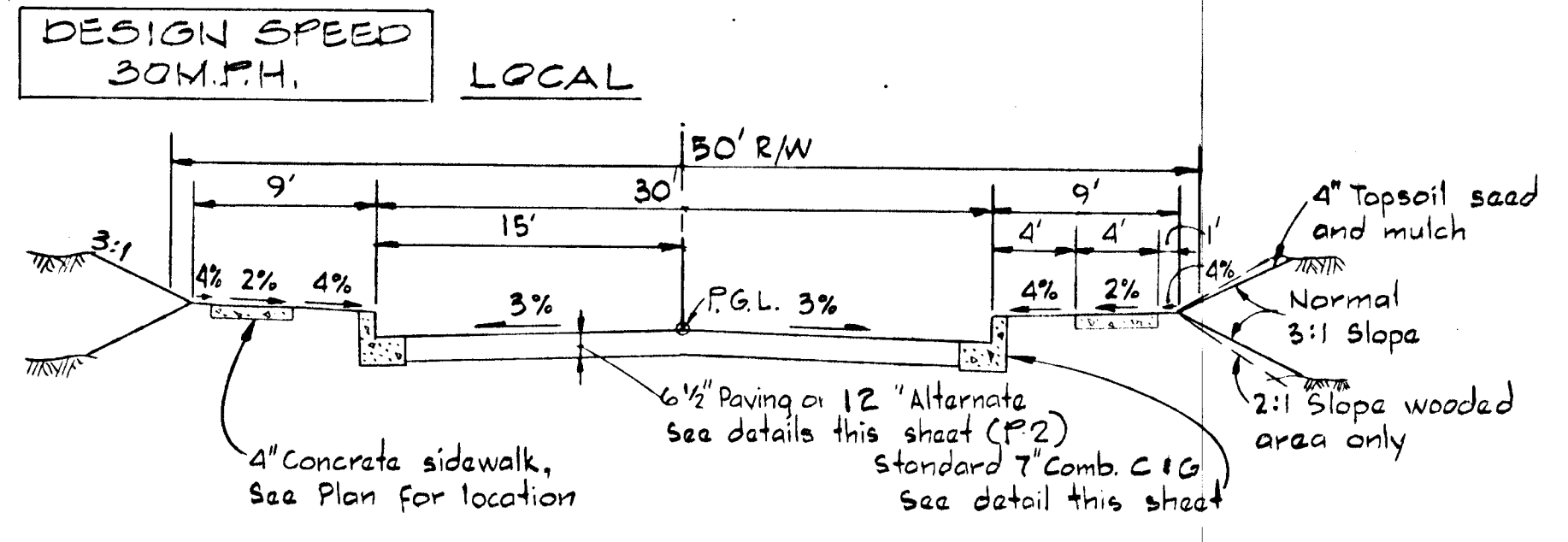
Note:
 A tack coat will be applied in accordance with section 33.07-3 as provided in the Md. S.R.C. Specifications.



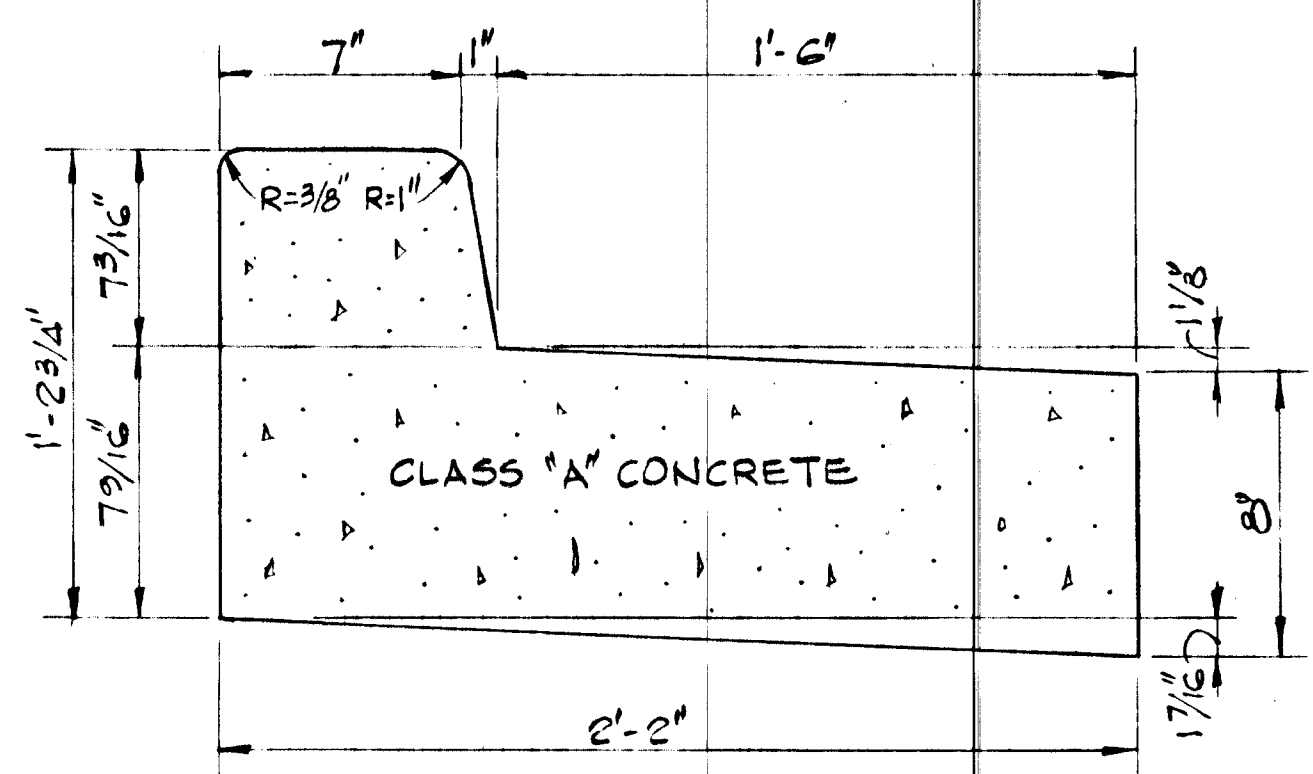
TYPICAL PAVING SECTION
 No Scale



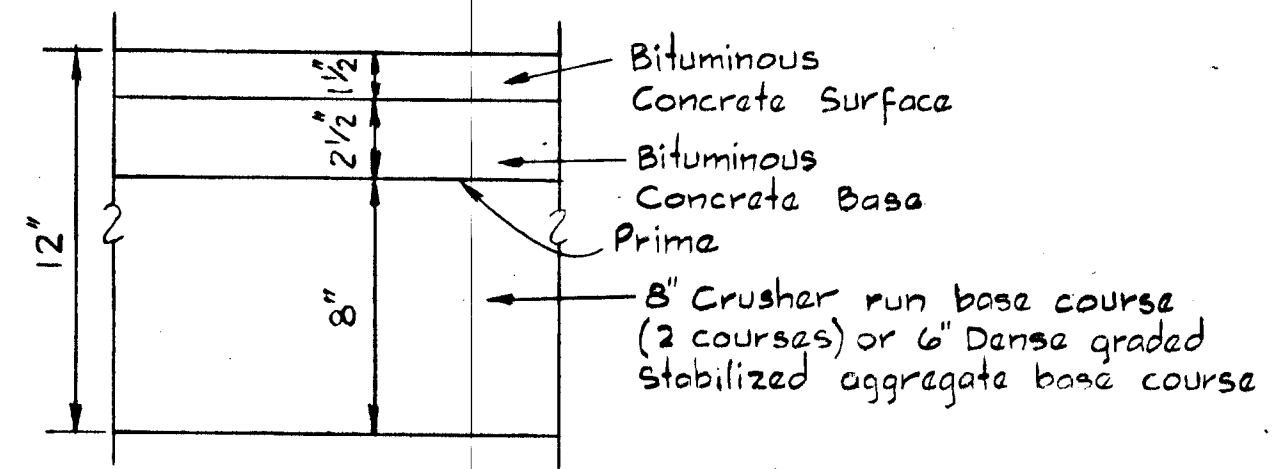
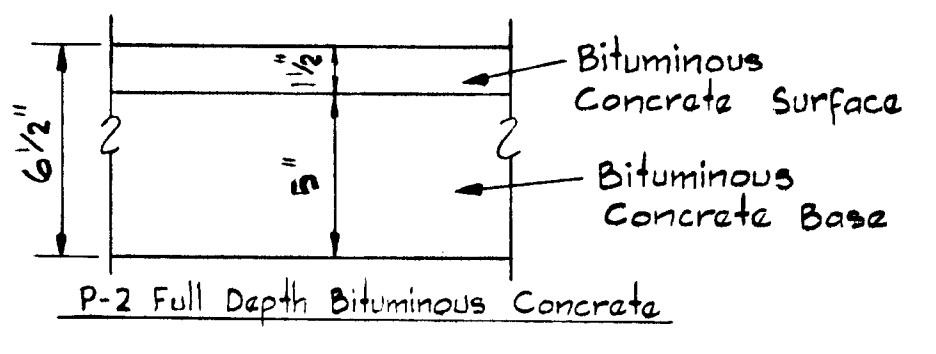
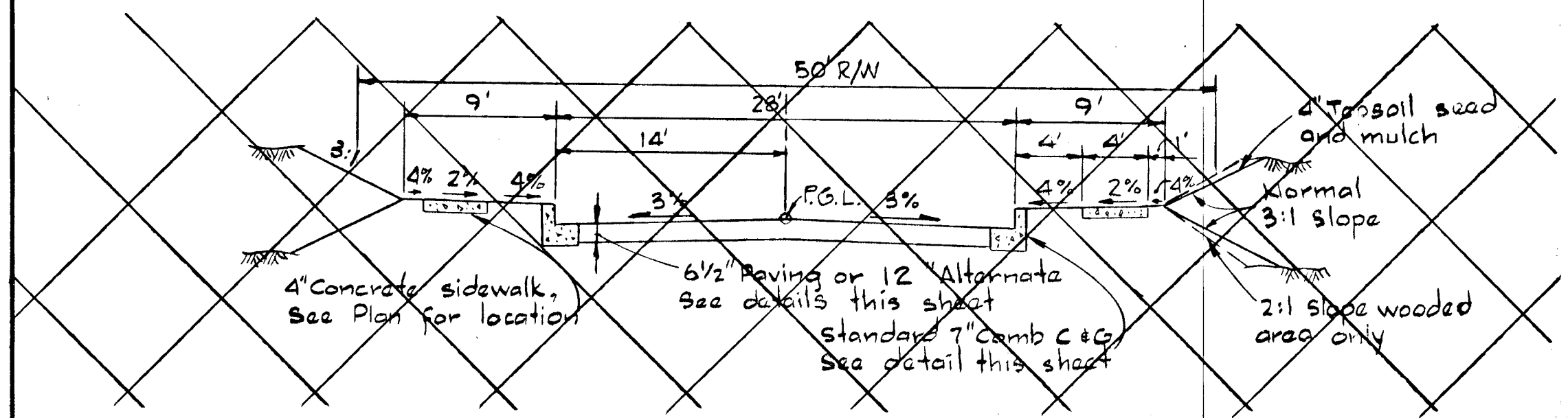
STANDARD 7" COMBINATION CURB & GUTTER
 No Scale



WHEEL CHAIR RAMP DETAIL
 No Scale



REVERSE 7" COMBINATION CURB & GUTTER
 No Scale

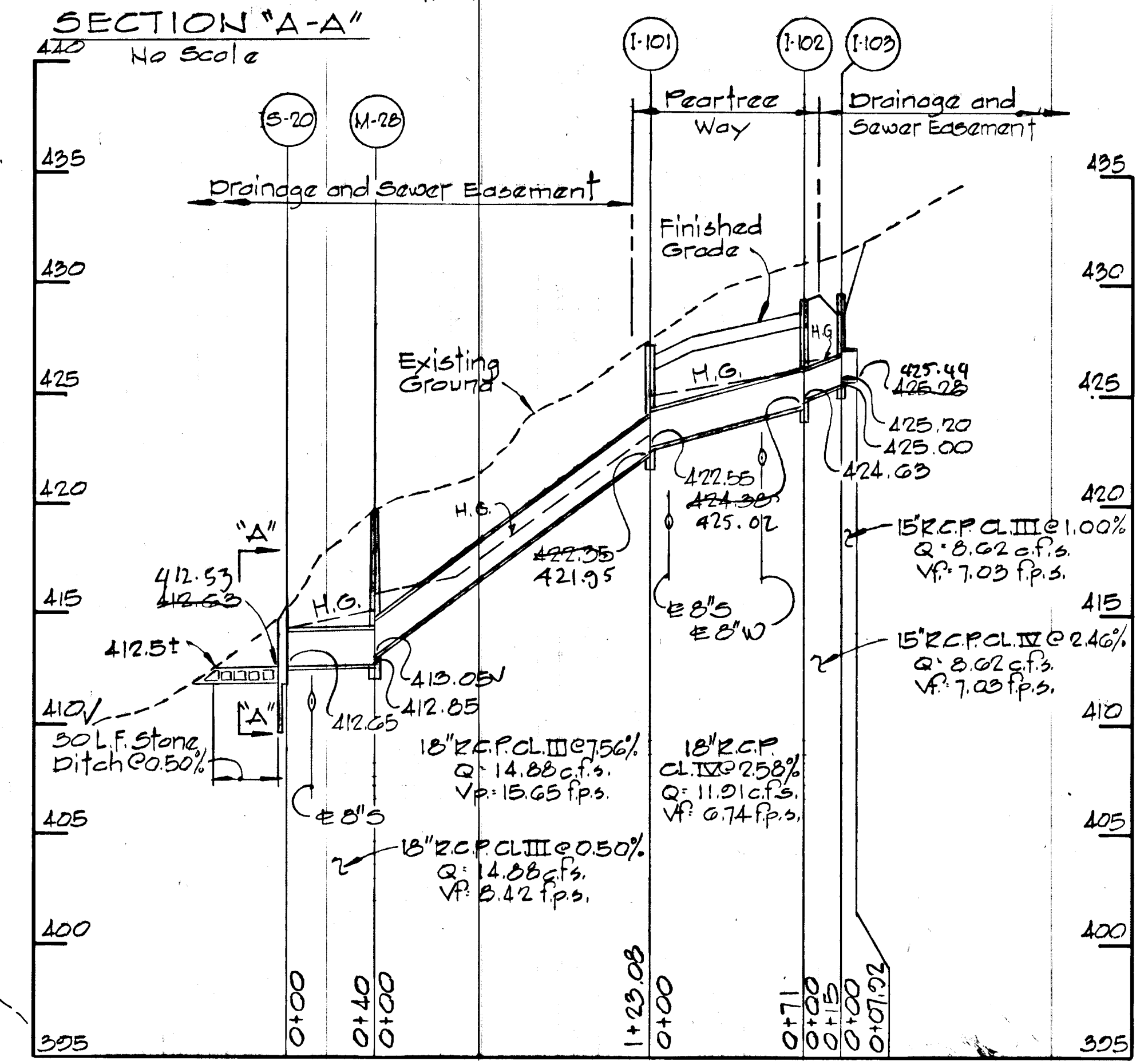
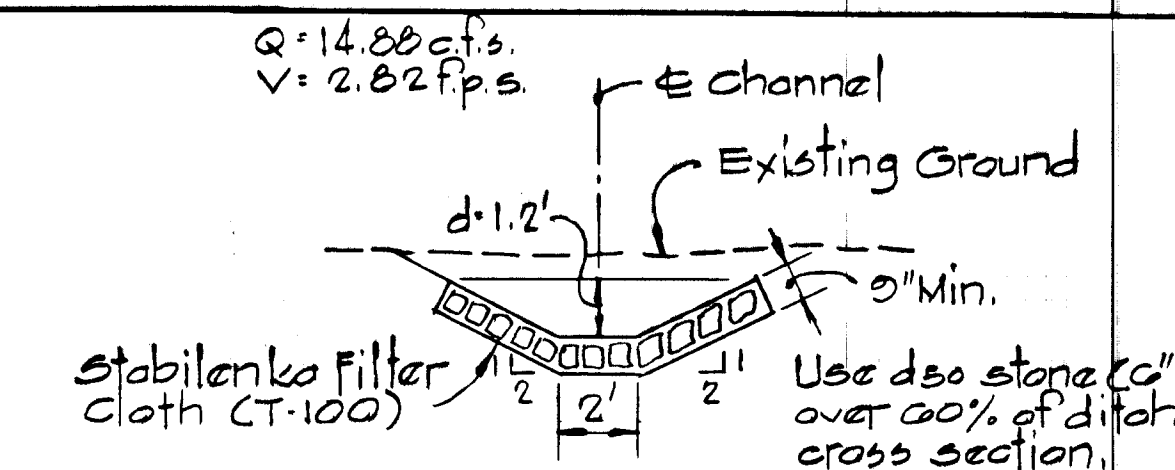


Note:
 A tack coat will be applied in accordance with section 33.07-3 as provided in the Md. S.R.C. Specifications.

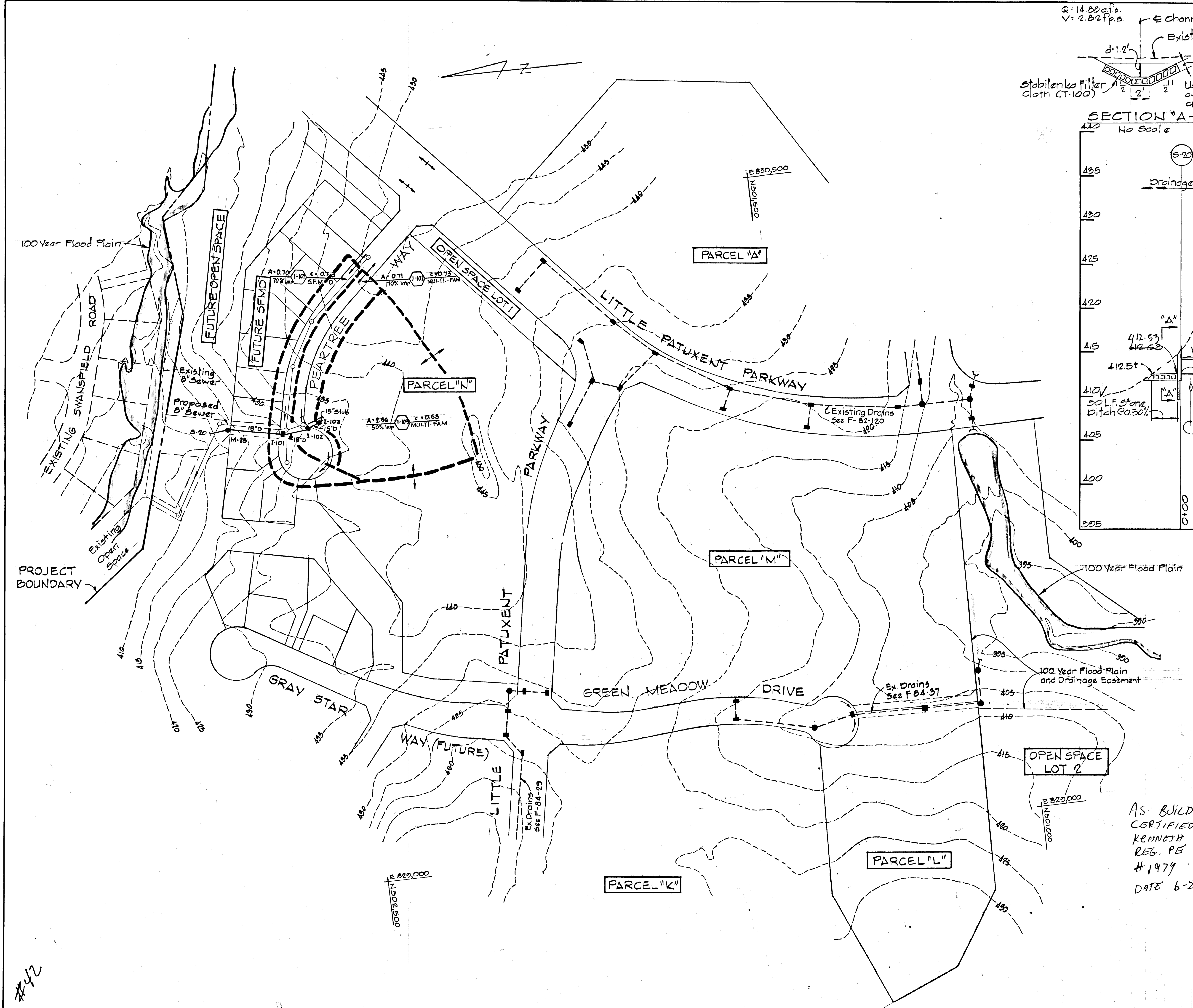
P-2 Granular Base (Alternate)

TYPICAL PAVING SECTION
 No Scale

REV. DATE	REV. NO.	REVISION DESCRIPTION
COLUMBIA 5th ELECTION DISTRICT HOWARD COUNTY, MARYLAND OWNER AND DEVELOPER THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION THE ROUSE BUILDING COLUMBIA, MARYLAND 21044		
PROJECT AREA VILLAGE OF HICKORY RIDGE SECTION 3 AREA @		
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		



Note:
 The type of bedding used for storm drain pipe shall be class C, shaped subgrade. If rock is encountered, the trench should be overexcavated 6 inches and the overexcavation of 6 inches refilled with granular material.



Rev. No.	Revision Description
1	As Per DPW and S.G.S. Comments

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

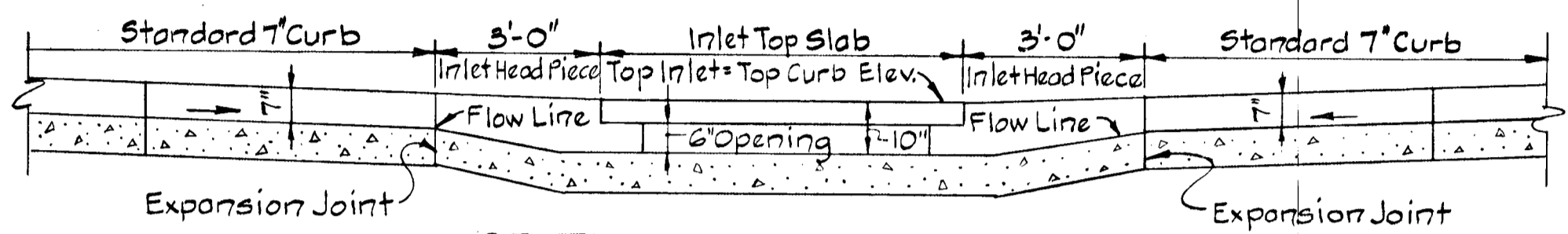
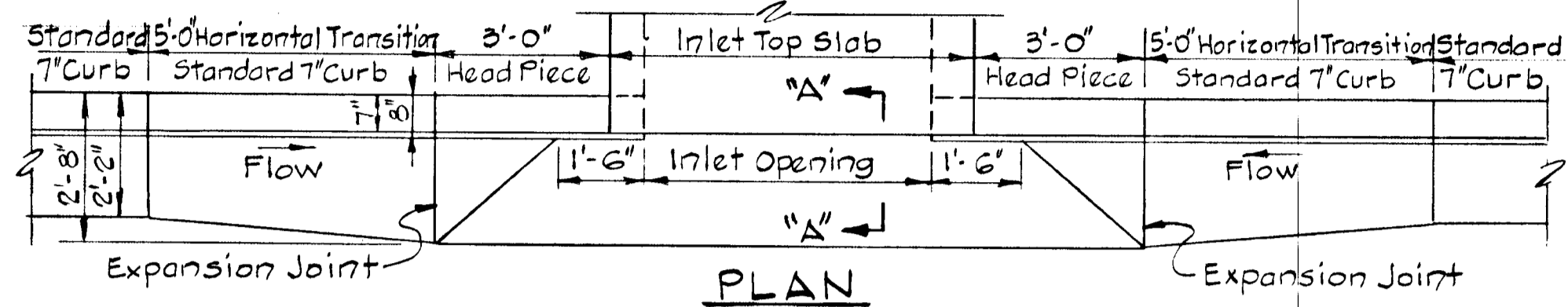
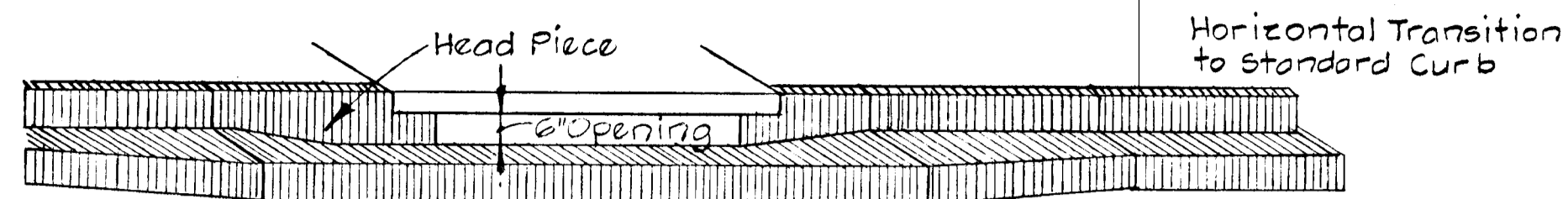
PROJECT AREA
 VILLAGE OF HICKORY RIDGE
 SECTION 3 AREA G

PROJECT TITLE
**DRAINAGE AREA MAP
 AND STORM DRAIN PROFILE**

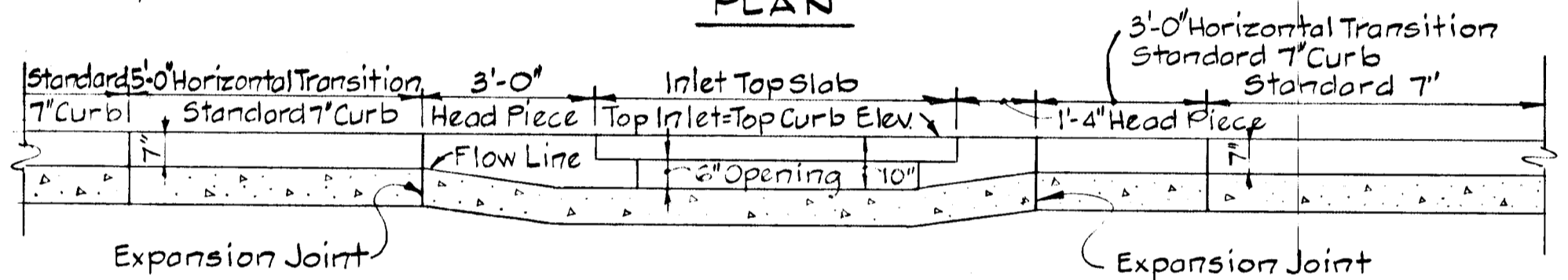
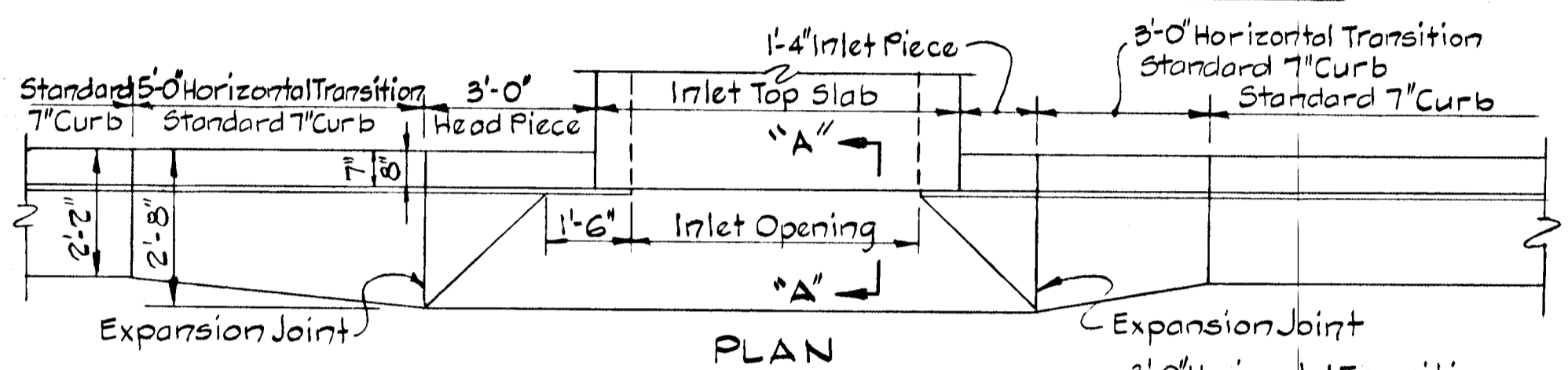
SCALE: 1"=100' DATE:
 WHITMAN, REQUARDT AND ASSOCIATES
 ENGINEERS
 2315 ST. PAUL STREET
 BALTIMORE, MARYLAND 21218

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

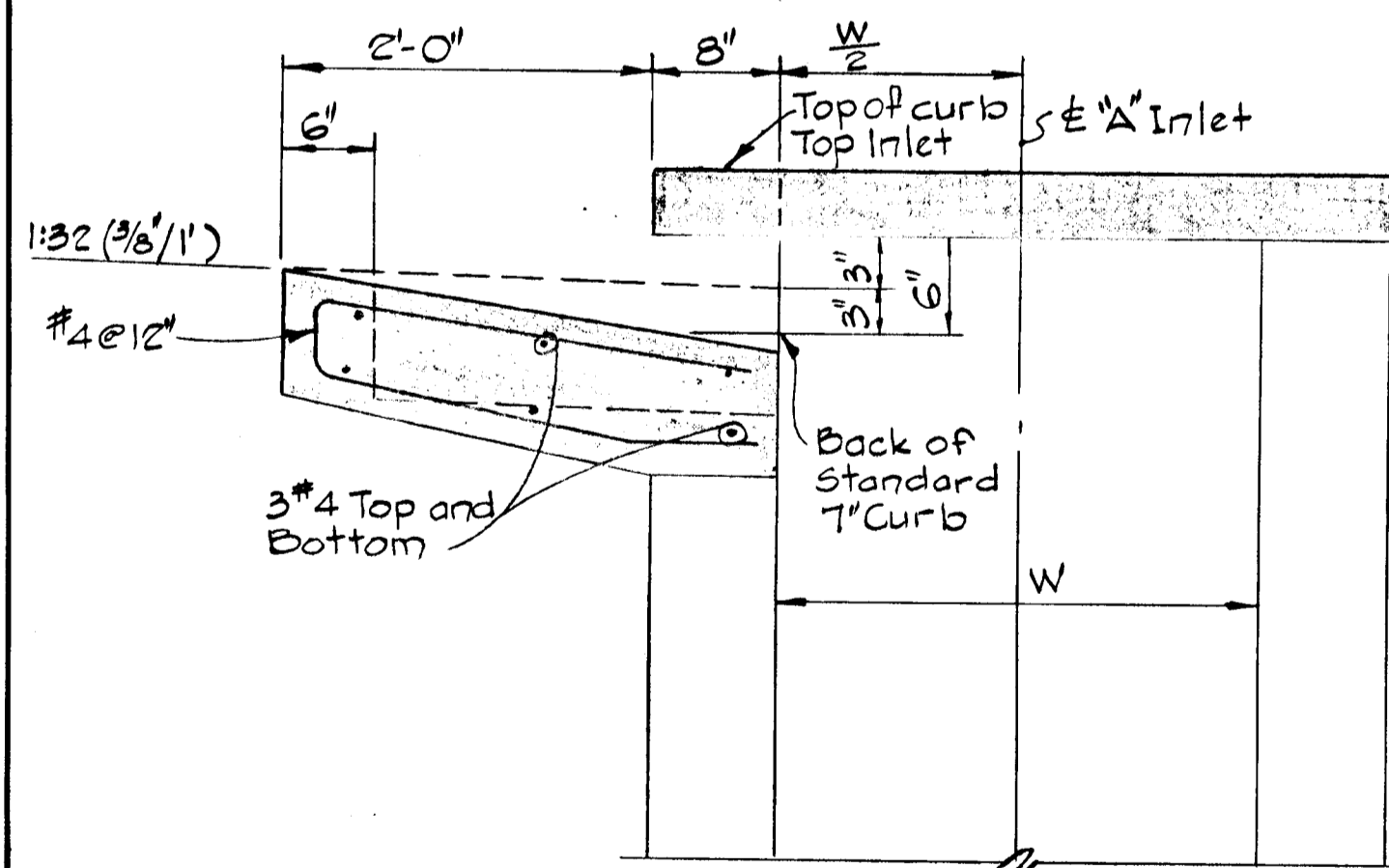
AS BUILT SURVEY
 CERTIFIED BY
 KENNETH A. MCCORD
 REG. PE
 #1974
 DATE 6-20-86



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



SECTION ALONG FLOW LINE
"A" INLETS - STANDARD CURB

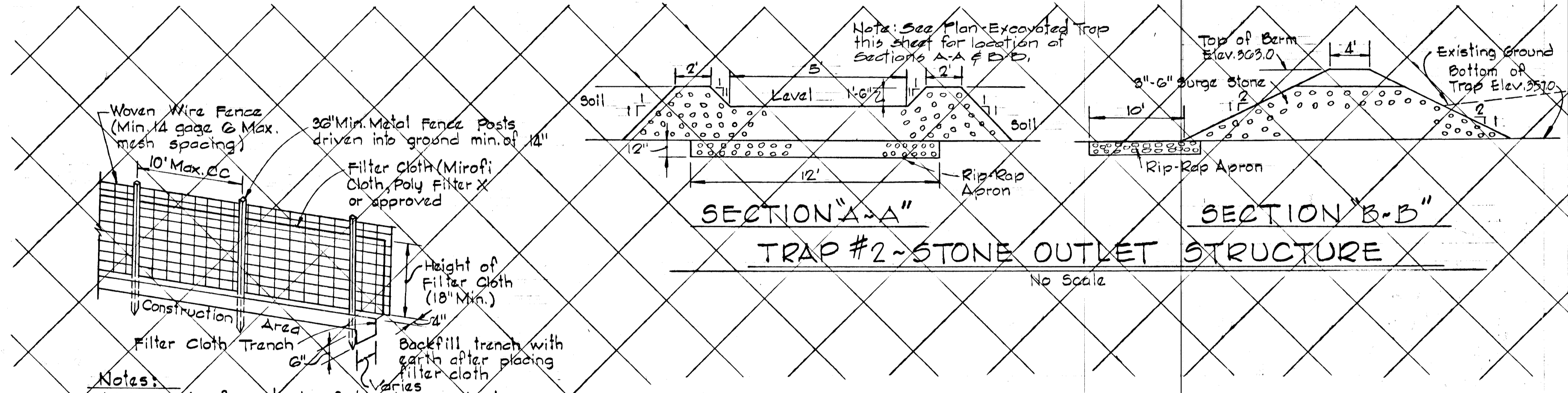
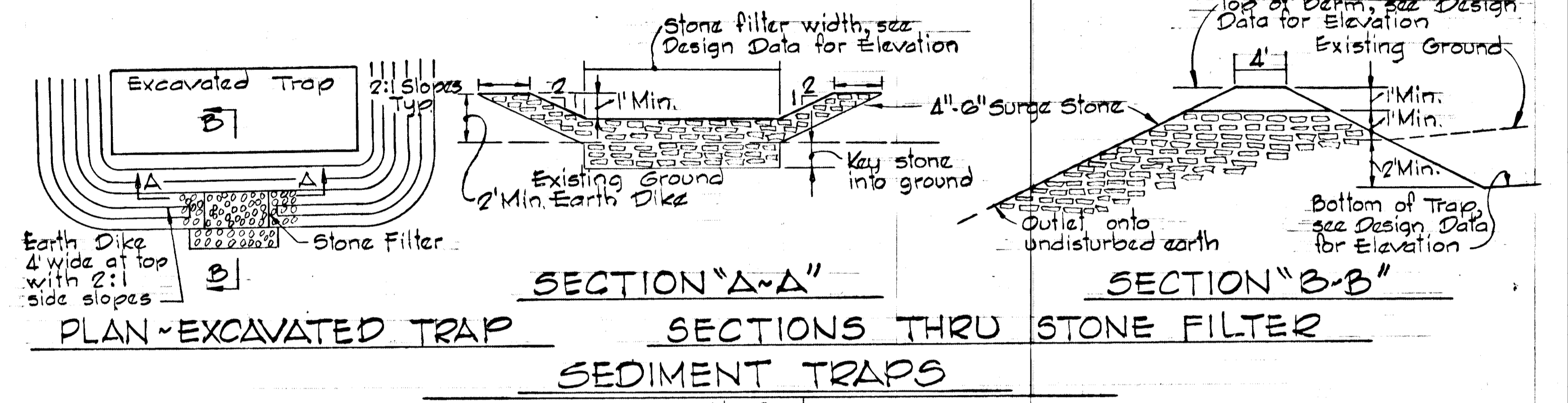
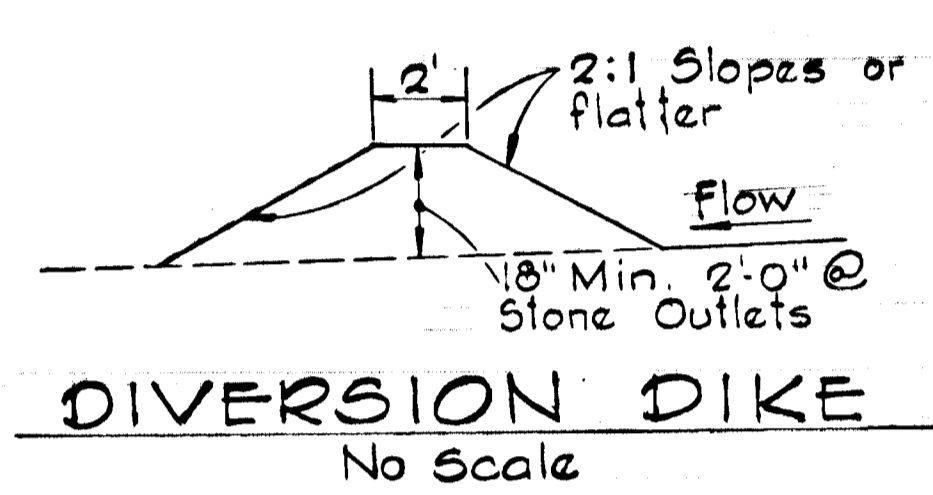
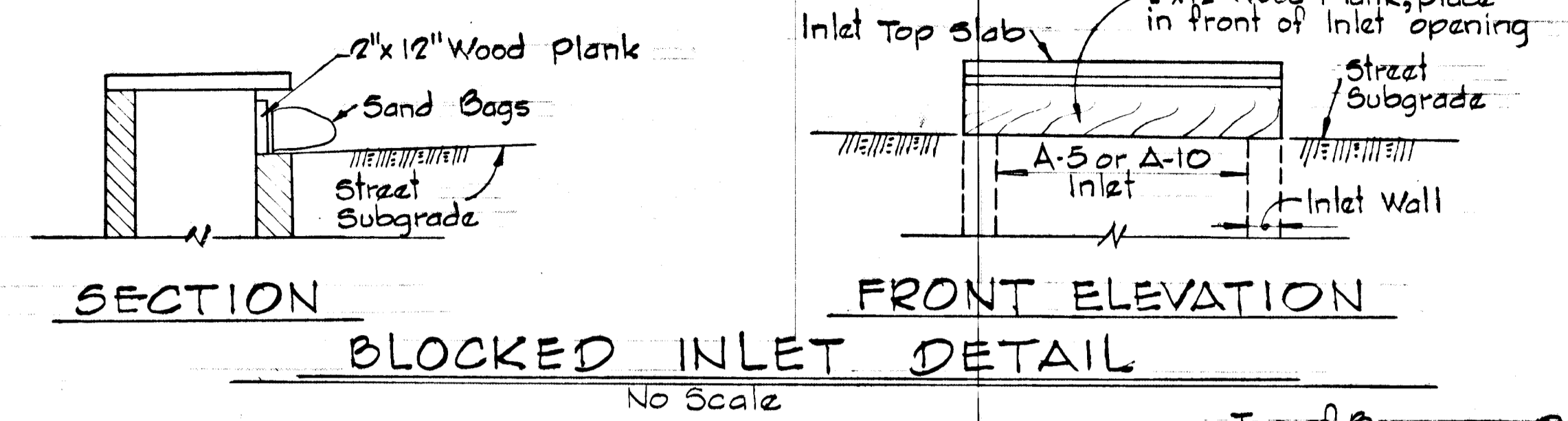
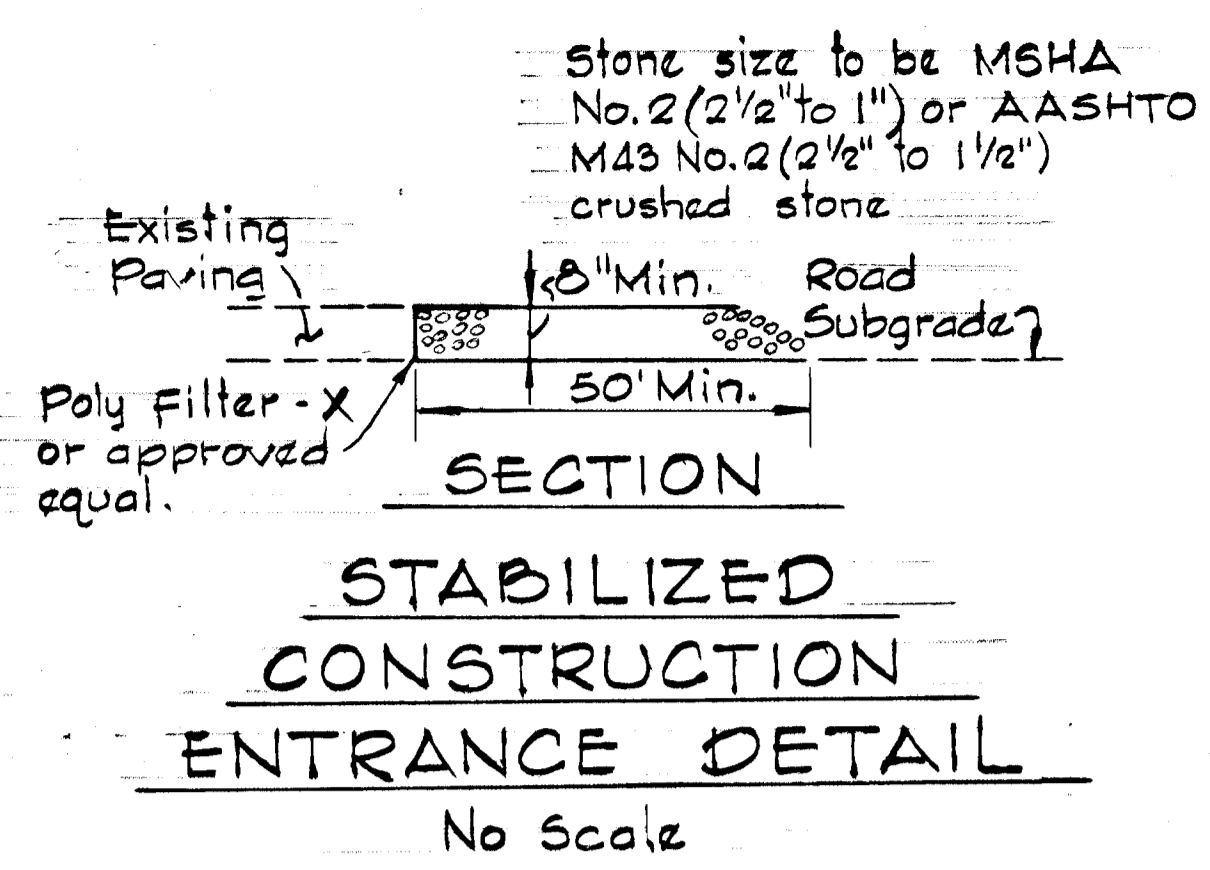
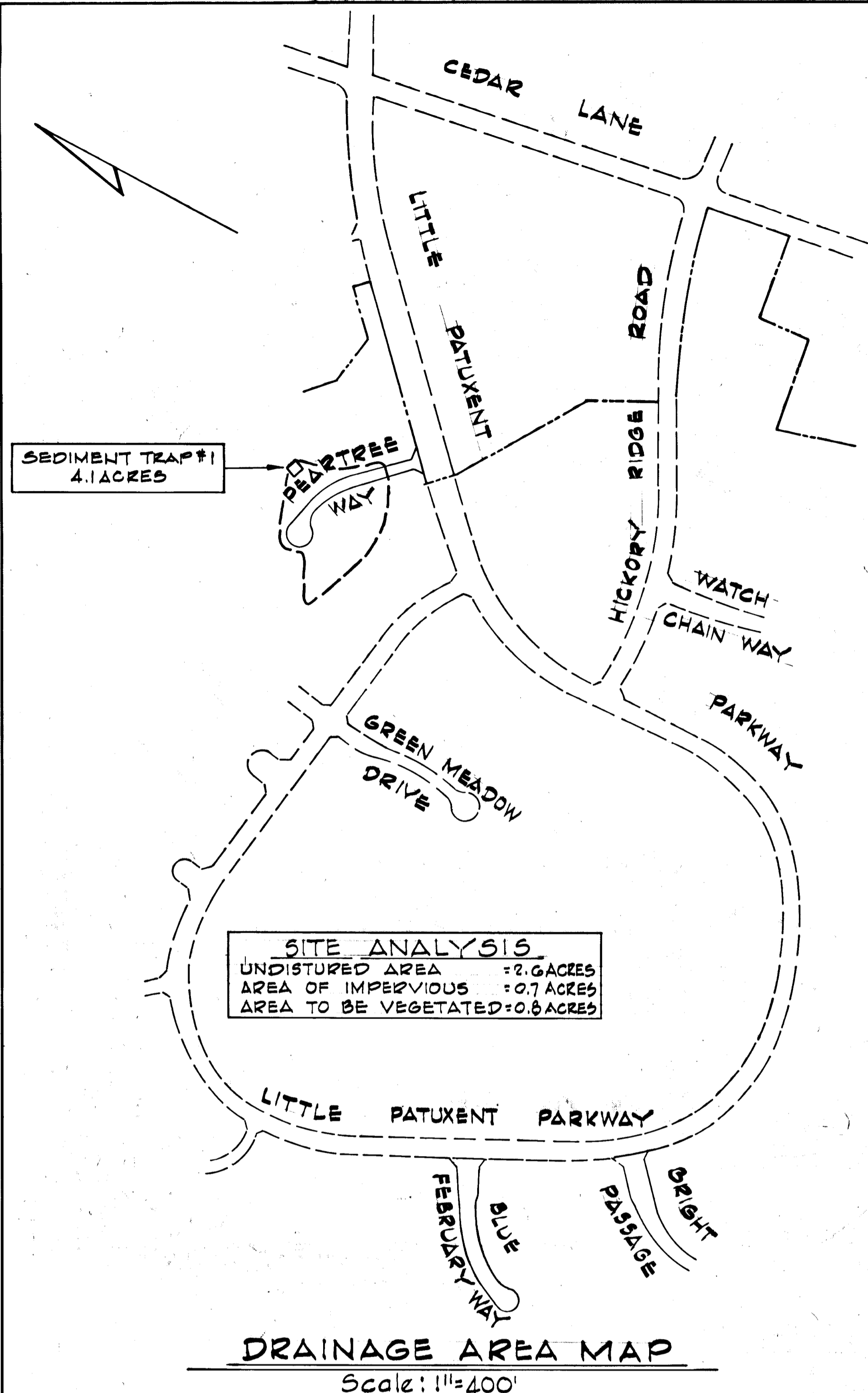


SECTION "A-A"
"A" INLET - STANDARD CURB

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

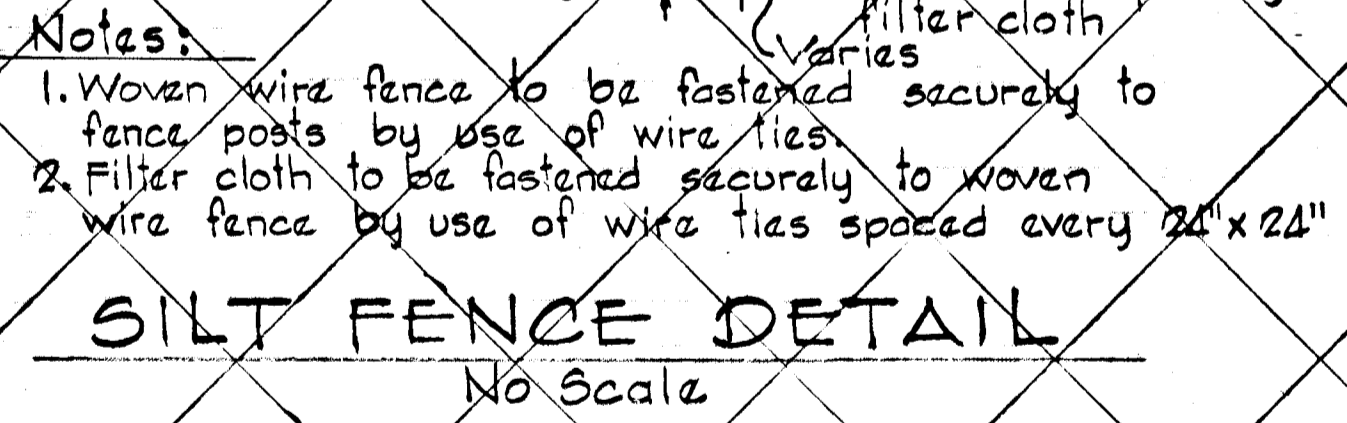
Rev. Date	Rev. No.	Revision Description
DORSEY HALL 27th ELECTION DISTRICT HOWARD COUNTY, MARYLAND		
OWNER AND DEVELOPER HOWARD RESEARCH AND DEVELOPMENT CORPORATION		
PROJECT AREA VILLAGE OF HICKORY RIDGE SECTION 3 AREA G		
PROJECT TITLE STORM DRAIN DETAILS		
SCALE: AS SHOWN		DATE:
WHITMAN, REQUARDT AND ASSOCIATES ENGINEERS 2315 ST. PAUL STREET BALTIMORE, MARYLAND 21218		
<i>Kenneth A. McCord</i> KENNETH A. MCCORD Registered Engineer No. 1074		

#42



SEQUENCE OF CONSTRUCTION

1. Obtain grading permit.
2. Construct stabilized construction entrance on Peartree Way.
3. Clear and grub limit of construction.
4. Construct sediment trap #1 and diversion dikes.
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 curb and gutter, sidewalks, 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.



PERMANENT SEEDING NOTES

LIME - 2 tons/acre agricultural around 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% Redtop.
 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 crownvetch at 15 lbs./acre or 0.34 lbs./1000² and Kentucky 3:1 Tall Fescue at 40 lbs./acre or 1 lb./1000².

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 temporary sediment control devices shall be seeded as specified in Notes 4 and 5. All other surfaces to be permanently seeded. See Specifications 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 Rye Grass (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. No.	Rev. Date	Revision Description
1	10/12/83	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
 Date: 1-12-84
 U.S. SOIL CONSERVATION DISTRICT

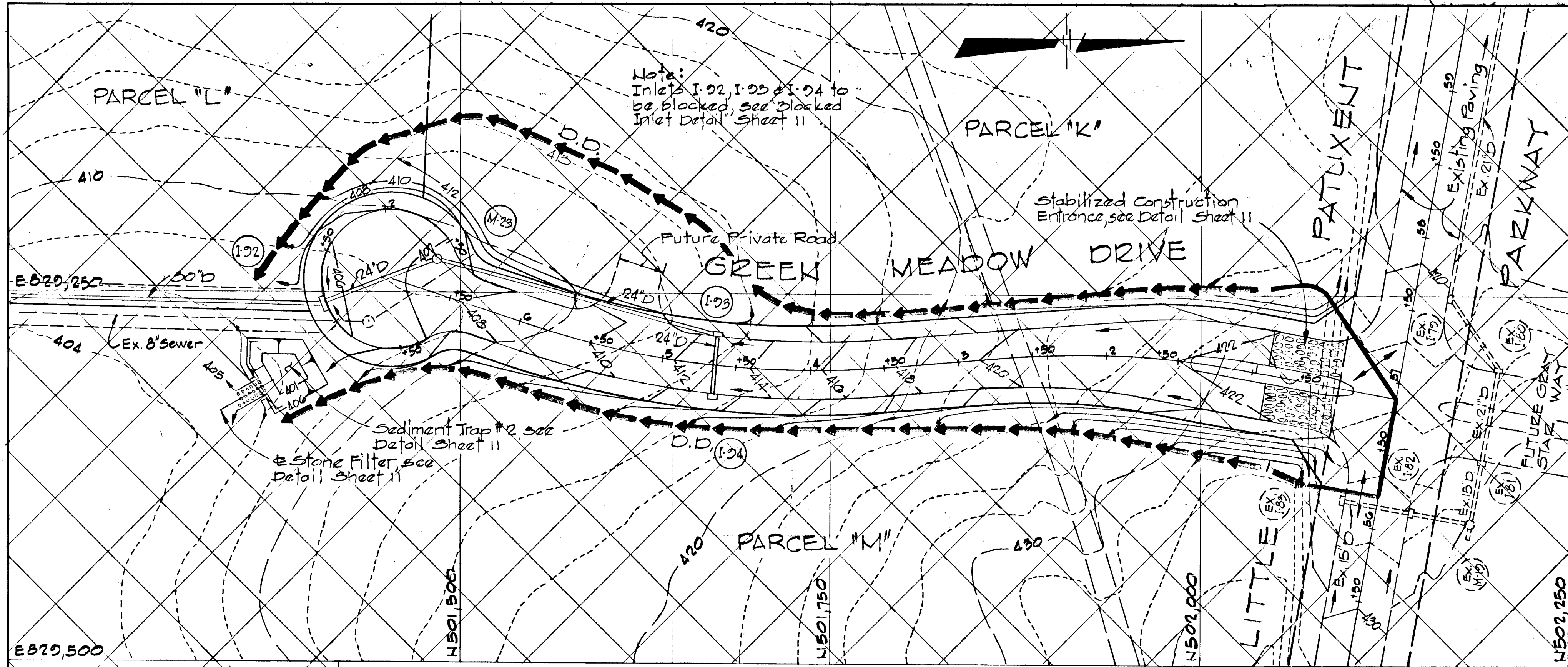
This development plan is approved for soil erosion and sediment control by the Howard Soil Conservation District.
 Approved: [Signature] Date: 1-22-84
 HOWARD S.C.D. Date

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."
 [Signature] Date: 8-21-83
 KENNETH A. McCORD P.E. 1974

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 authorize agents, as are deemed necessary."
 [Signature] Date: 8-23-83
 WALTER E. WOODFORD

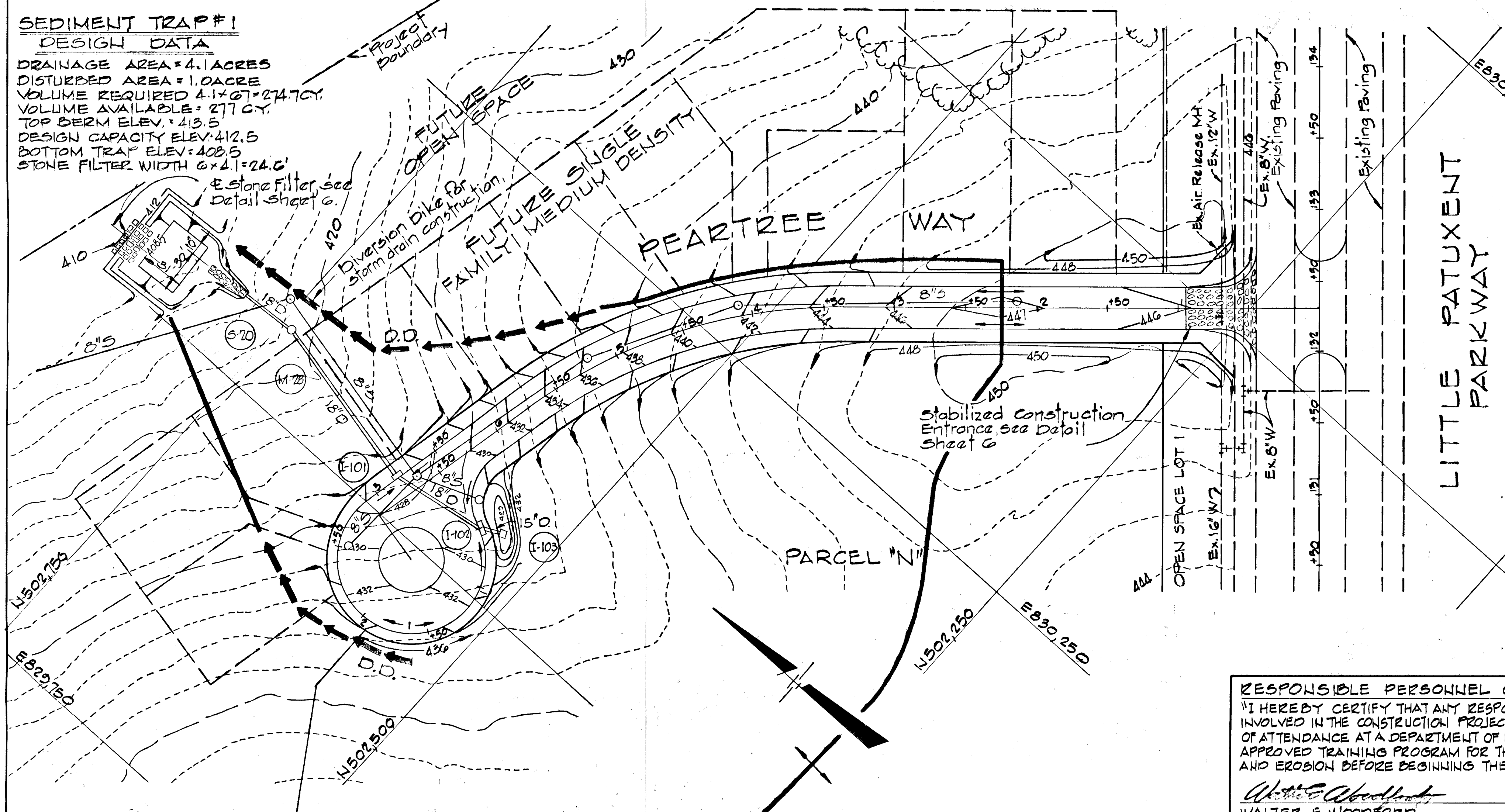
RESPONSIBLE PERSONNEL CERTIFICATION
 "I hereby certify that any responsible personnel involved in the construction project will have a certificate of attendance at a Department of Natural Resources approved training program for the control of sediment and erosion before beginning the project."
 [Signature] Date: 8-23-83
 WALTER E. WOODFORD

SCALE: AS SHOWN DATE:
 WHITMAN, REQUARDT AND ASSOCIATES ENGINEERS
 2315 ST. PAUL STREET BALTIMORE, MARYLAND 21218
 [Signature] KENNETH A. McCORD Registered Engineer No. 1974



SEDIMENT TRAP #2
DESIGN DATA
 DRAINAGE AREA: 2.1 ACRES
 DISTURBED AREA: 2.1 ACRES
 VOLUME REQUIRED: $2.1 \times 67 = 140.7$ CY
 VOLUME AVAILABLE: 155 CY
 TOP BERM ELEV.: 405.0
 DESIGN CAPACITY ELEV.: 405.0
 BOTTOM TRAP ELEV.: 401.0
 STONE FILTER WIDTH: $6 \times 21 = 126'$

SEDIMENT TRAP #1
DESIGN DATA
 DRAINAGE AREA: 4.1 ACRES
 DISTURBED AREA: 1.0 ACRE
 VOLUME REQUIRED: $4.1 \times 67 = 274.7$ CY
 VOLUME AVAILABLE: 277 CY
 TOP BERM ELEV.: 413.5
 DESIGN CAPACITY ELEV.: 412.5
 BOTTOM TRAP ELEV.: 408.5
 STONE FILTER WIDTH: $6 \times 41 = 246'$



REVIEWED FOR HOWARD S.C.D.
 AND MEETS TECHNICAL REQUIREMENTS
Jana M. Hahn 1-12-84
 DATE
 U.S. SOIL CONSERVATION SERVICE
 THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
Howard S.C.D. 1-12-84
 APPROVED DATE

REV. DATE	REV. NO.	REVISION DESCRIPTION
1/5/84	2	Relocated Sediment Trap
10/12/83	1	As Per D.P.W. and S.C.S. Comments

CERTIFICATION BY THE DEVELOPER
 "I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPT. 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 8-23-83
 WALTER E. WOODFORD 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 8-23-83
 KENNETH A. MCCORD 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 8-24-83
 WALTER E. WOODFORD DATE

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 PLAN
 SCALE: 1"=50' DATE:

WHITMAN, REQUARDT AND ASSOCIATES
 ENGINEERS
 BALTIMORE, MARYLAND 21218
Kenneth A. McCord
 KENNETH A. MCCORD
 Registered Engineer
 No. 1974