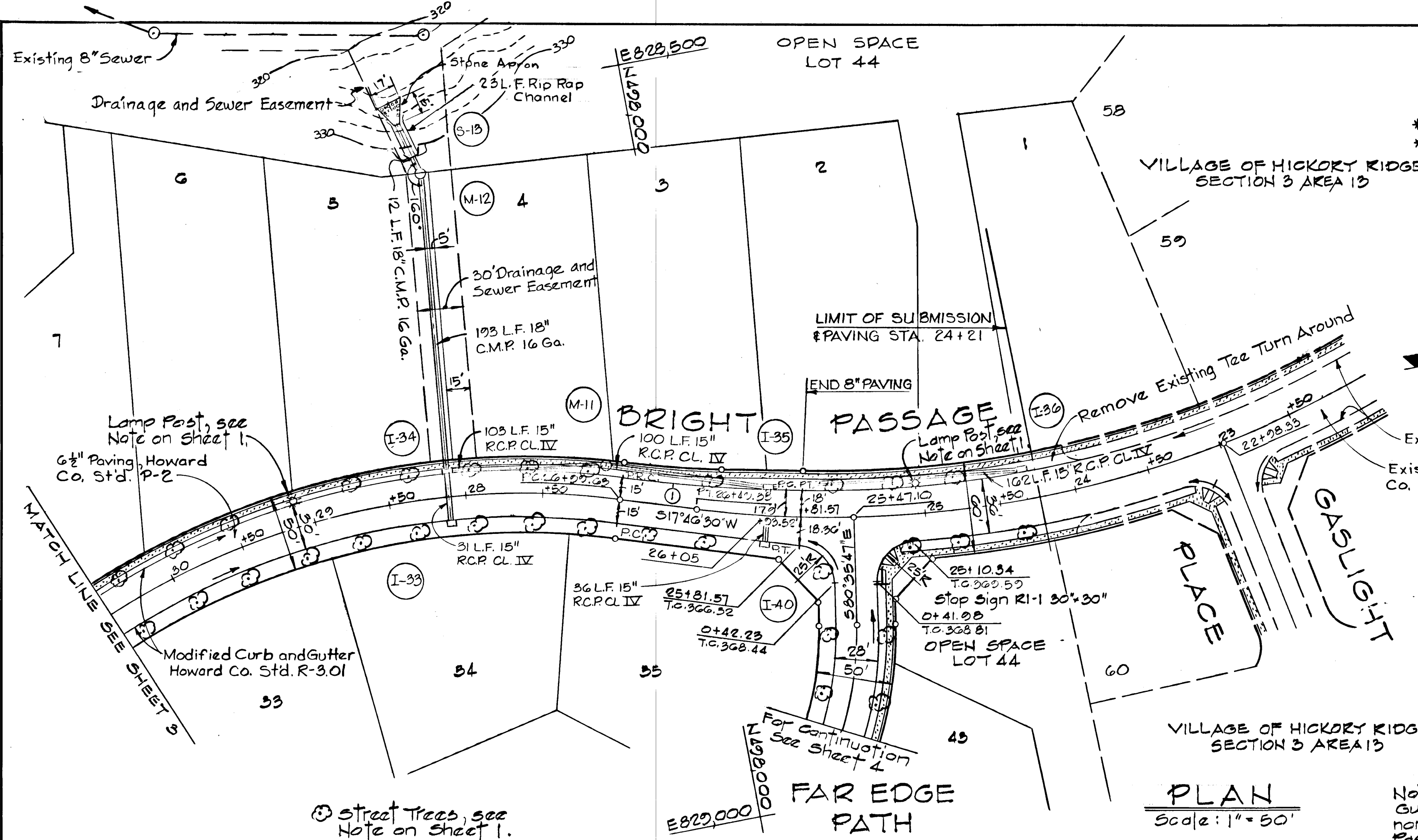


DATE: _____
 BY: _____
 SUPERVISOR: _____
 NOTE BOOK: _____
 ALIGNMENT CHECKED: _____
 RT. OF WAY CHECKED: _____
 NO. _____

DATE: _____
 BY: _____
 SUPERVISOR: _____
 NOTE BOOK: _____
 GRADES CHECKED: _____
 B. M. S. NOTED: _____
 STRUCTURE NOTATIONS CHECKED: _____
 NO. _____



STORM DRAIN STRUCTURE SCHEDULE						
NO.	TYPE	TOP EL.	INV IN	INV OUT	LOCATION	
I-33	A-5 Inlet (width 25) 5.D.4.01	357.00	—	352.52	E Inlet 16.92' Left E Sta. 28+13.47	
I-34	A-5 Inlet (width 25) 5.D.4.01	357.00	348.00	345.32	E Inlet 16.92' Right E Sta. 28+13.47	
I-35	A-5 Inlet (width 25) 5.D.4.01	365.00	360.56	360.36	E Inlet 19.02' Right E Sta. 26+05	
I-36	A-5 Inlet (width 25) 5.D.4.01	375.38	—	370.94	E Inlet 16.92' Right E Sta. 24+32	
I-40	A-5 Inlet (width 25) 5.D.4.01	365.00	—	360.75	E Inlet 19.02' Left E Sta. 26+05	
M-11	Standard Manhole G.5.01	359.80	354.36	354.16	E Manhole 21' Right E Sta. 27+10	
M-12	Standard Manhole G.5.01	329.50	325.20	324.07	See Plan & Profile	
S-13	Type A Headwall 5.D.5.11	327.00	324.00	323.98	See Plan & Profile	

* Inlets with deflectors

APPROVED: DEPARTMENT OF PUBLIC WORKS
 DATE: 3-2-87
 CHIEF, BUREAU OF ENGINEERING
 OFFICE OF PLANNING & ZONING
 DATE: 3-2-87
 CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION

NOTE:
 FOR EXISTING BRIGHT PASSAGE, SEE ROAD CONSTRUCTION DRAWINGS FOR VILLAGE OF HICKORY RIDGE, SECTION 3 AREA 13. (F-87-31).

2/12/87	1	As per Planning, DPW & SCS Comments
REV. DATE	REV. NO.	REVISION DESCRIPTION

COLUMBIA
 5TH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 OWNER AND DEVELOPER
 THE HOWARD RESEARCH
 AND DEVELOPMENT LAND COMPANY
 PROJECT AREA
 VILLAGE OF HICKORY RIDGE
 SECTION 3 AREA 14
 PROJECT TITLE
 PLAN AND PROFILE
 BRIGHT PASSAGE
 STA. 24+21 TO STA 30+50
 SCALE: AS SHOWN DATE
 WHITMAN, REQUARDT AND ASSOCIATES
 ENGINEERS
 BALTIMORE, MARYLAND 21218

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

① PAVING CURVE DATA
 $\Delta: 05^{\circ}33'00''$ Tan: 52.43
 $R: 1081.78'$ Chd: 104.74'
 Arc: 104.79' Chd. Brg.: $515^{\circ}00'00''W$

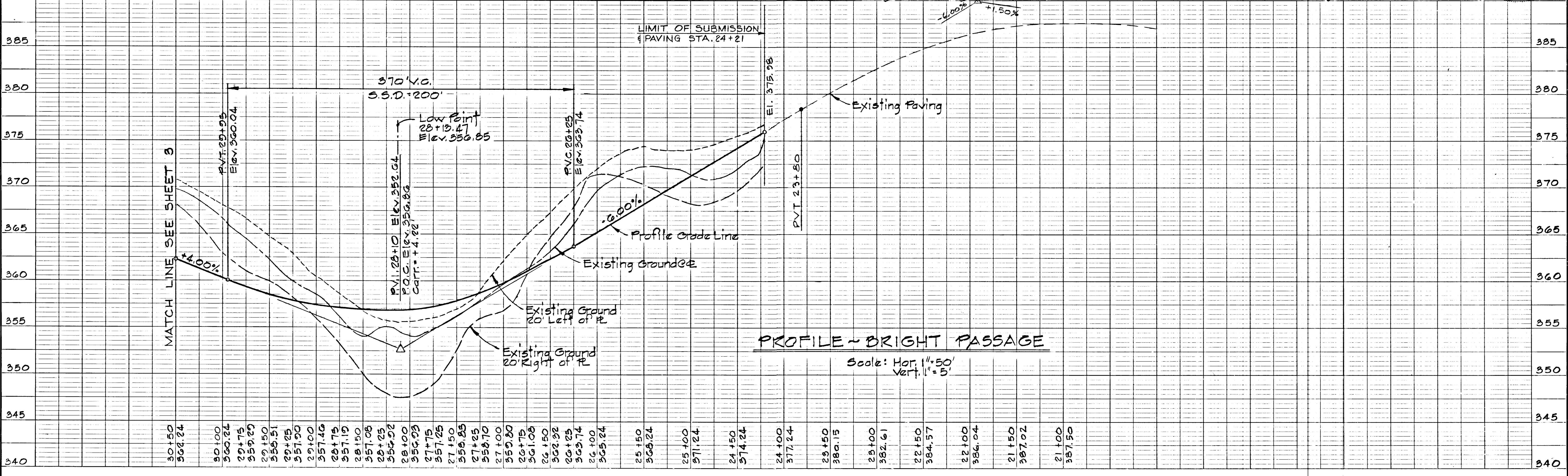
② CURVE DATA
 STA. 22+08.33 TO P.I. 25+47.10
 $\Delta: 20^{\circ}21'44''$ Tan: 125.71'
 $R: 700.00'$ Chd: 247.46'
 Arc: 248.77' Chd. Brg.: $500^{\circ}46'39''E$

P.I. 25+47.10 TO PT. 26+49.98
 $\Delta: 08^{\circ}22'17''$ Tan: 51.23'
 $R: 700.00'$ Chd: 102.10'
 Arc: 102.28' Chd. Brg.: $513^{\circ}35'21''W$

P.O. 26+99.09 TO P.I. 31+22.81
 $\Delta: 48^{\circ}20'34''$ Tan: 225.20'
 $R: 500.00'$ Chd: 410.00'
 Arc: 423.18' Chd. Brg.: $506^{\circ}28'17''E$

PLAN
 Scale: 1" = 50'

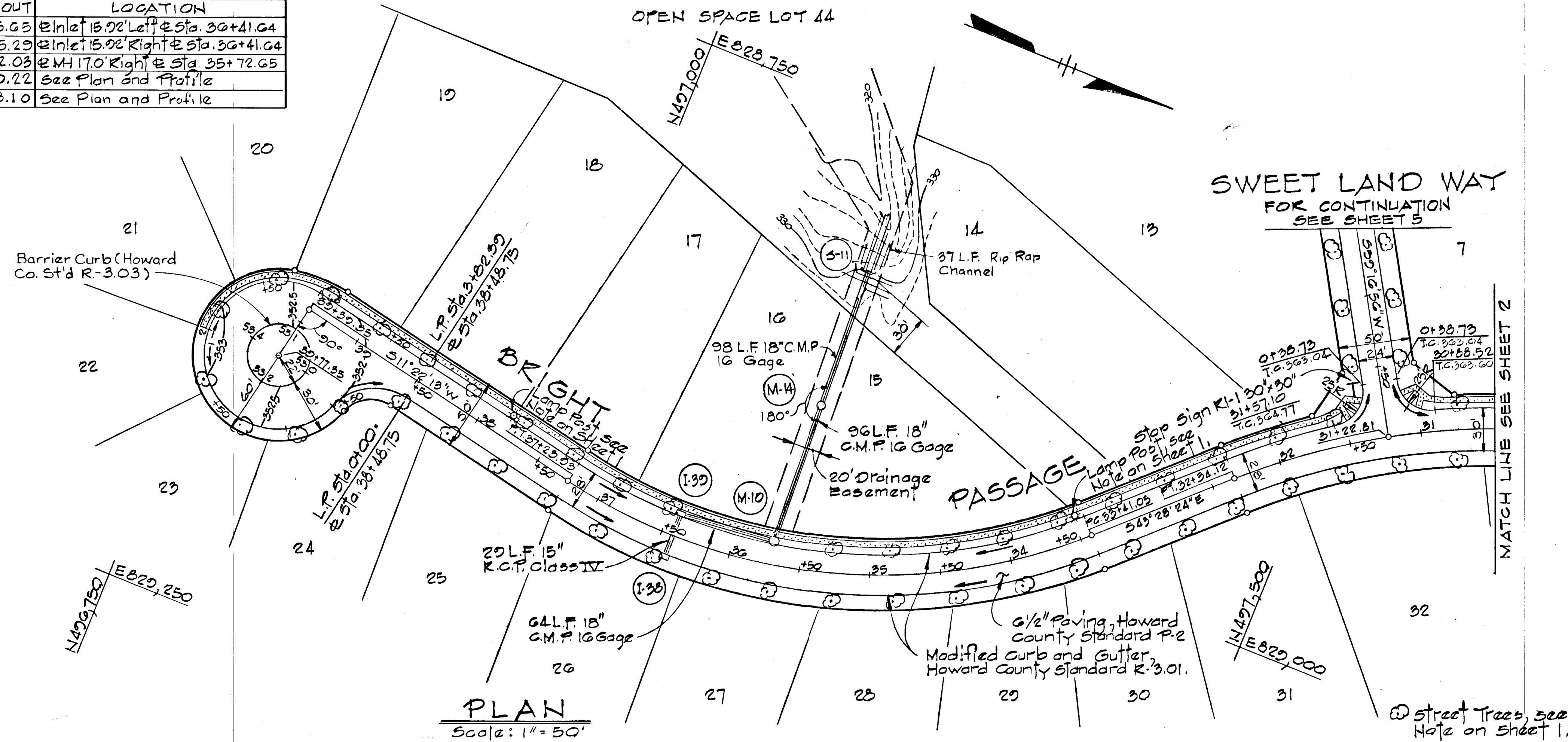
Note: Reverse Slope Curb and Gutter to be constructed at the northeast corner of Bright Passage and Far Edge Path.



PROFILE - BRIGHT PASSAGE
 Scale: Hor: 1" = 50'
 Vert: 1" = 5'

STORM DRAIN STRUCTURE SCHEDULE

NO.	TYPE	TOPEL	INV. IN	INV. OUT	LOCATION
I-38	A-B Inlet width 25 (SD 4.01)	350.14	—	345.65	Inlet 15.02' Left of Sta. 30+41.64
I-39	A-B Inlet width 25 (SD 4.01)	350.14	345.49	345.29	Inlet 15.02' Right of Sta. 30+41.64
M-10	Standard M (G 5.01)	350.93	342.57	342.03	M 17.0' Right of Sta. 35+72.65
S-11	Type 'A' Headwall (SD 5.11)	323.25	320.25	320.22	See Plan and Profile
M-14	Standard M (G 5.05)	339.20	333.30	333.10	See Plan and Profile



2 CURVE DATA

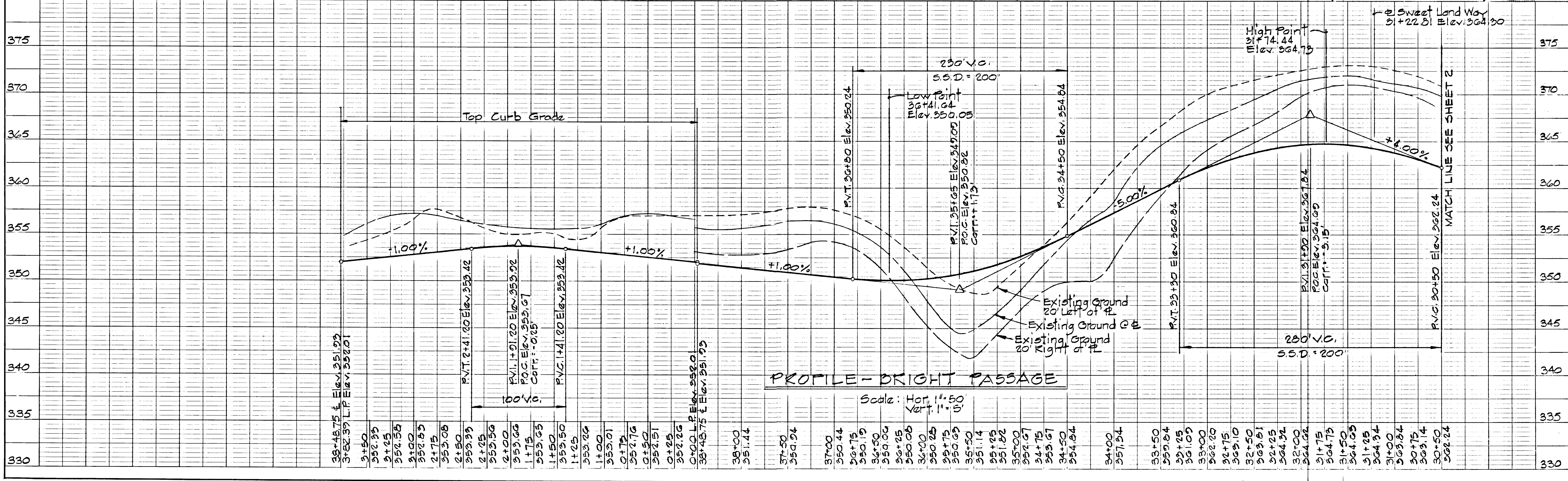
P.I. 31+22.81 TO P.T. 32+34.12
 $\Delta = 12^\circ 45' 20''$ Tan. = 55.89'
 $R = 500.00'$ chd. = 111.08'
 $Arc = 111.31'$ chd. Org. = $337^\circ 05' 44'' E$

P.O. 30+41.05 TO P.T. 31+22.81
 $\Delta = 54^\circ 50' 37''$ Tan. = 207.53'
 $R = 400.00'$ chd. = 368.43'
 $Arc = 382.88'$ chd. Org. = $516^\circ 03' 05'' E$

PLAN
Scale: 1" = 50'

APPROVED: DEPARTMENT OF PUBLIC WORKS
 3-3-87
 CHIEF, BUREAU OF ENGINEERING
 OFFICE OF PLANNING & ZONING
 John W. Muschman 3-2-87
 CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION

2/12/87	1	Upper Planning, DPW 650 S. Comments
REV. DATE	REV. NO.	REVISION DESCRIPTION
COLUMBIA		
5TH ELECTION DISTRICT		
HOWARD COUNTY, MARYLAND		
OWNER AND DEVELOPER THE HOWARD RESEARCH AND DEVELOPMENT LAND COMPANY		
PROJECT AREA VILLAGE OF HICKORY RIDGE SECTION 3 AREA 14		
PROJECT TITLE PLAN AND PROFILE BRIGHT PASSAGE STA. 30+50 TO STA. 39+77.35		
SCALE: AS SHOWN DATE		
WHITMAN, REQUARDT AND ASSOCIATES ENGINEERS BALTIMORE, MARYLAND 21218		
Kenneth A. McCord Registered Engineer NO. 1974		



PROFILE - BRIGHT PASSAGE
Scale: Hor. 1" = 50' Vert. 1" = 5'

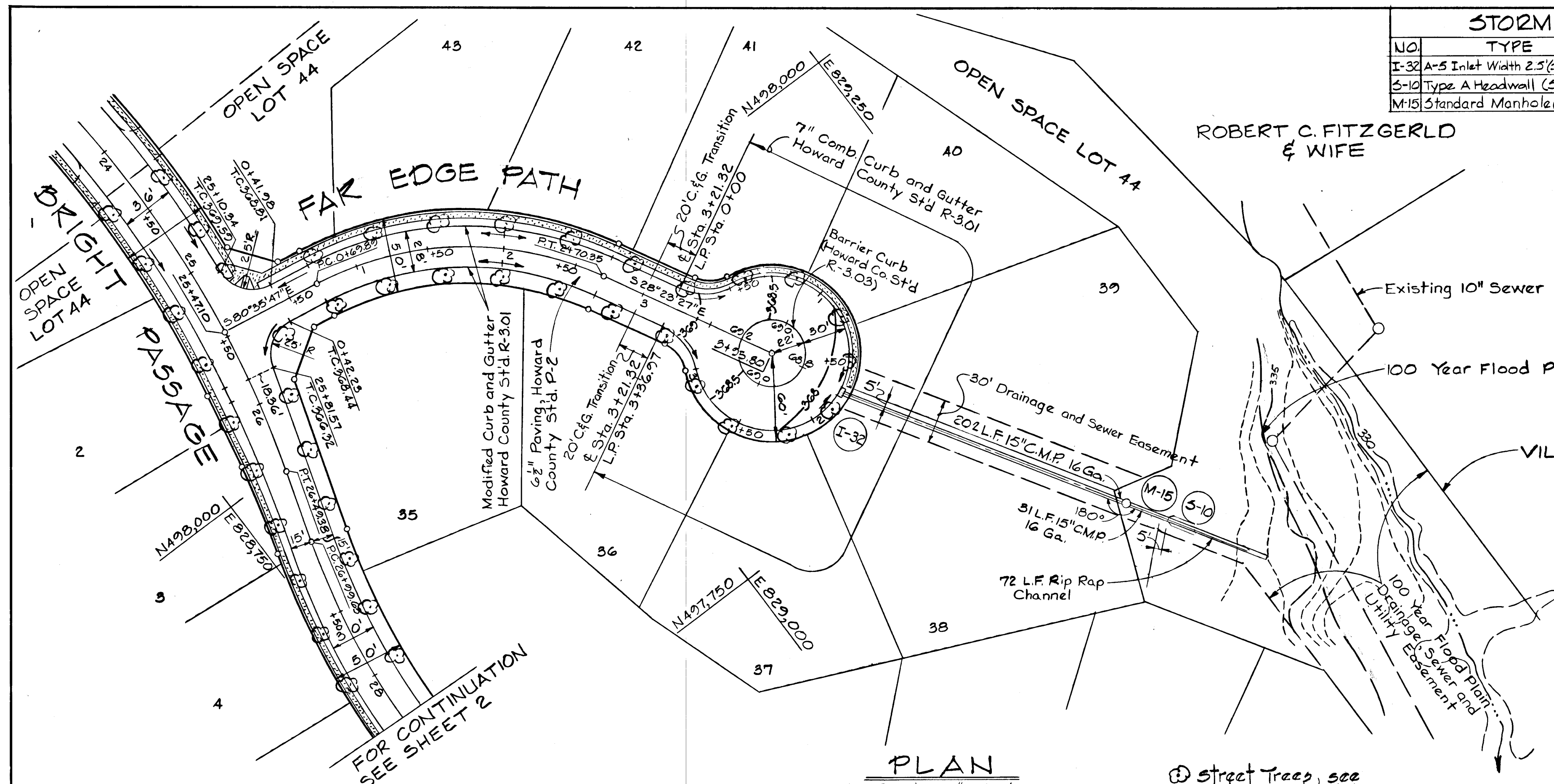
PLAN
 SURVEYED, PLOTTED, ALIGNED, CHECKED, REVISIONS CHECKED.
 DATE BY

PROFILE
 SURVEYED, PLOTTED, GRADES CHECKED, REVISIONS CHECKED.
 DATE BY

STORM DRAIN STRUCTURE SCHEDULE

NO.	TYPE	TOP EI.	INV. IN	INV. OUT	LOCATION
I-32	A-5 Inlet Width 2.5'(SD.4.01)	368.29	—	369.25	± Inlet 1.92' Back L.P. Sta. 1+68.48
S-10	Type A Headwall (SD.5.11)	338.83	335.83	335.47	See Plan & Profile
M-15	Standard Manhole (G.5.05)	344.30	339.86	336.33	See Plan & Profile

APPROVED: DEPARTMENT OF PUBLIC WORKS
 DATE: 3-3-87
 CHIEF, BUREAU OF ENGINEERING
 OFFICE OF PLANNING & ZONING
 DATE: 3-7-87
 CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION



PLAN
 Scale: 1" = 50'

① Street Traps, see Note on Sheet 1.

± CURVE DATA
 P.C. 0+62.87 TO P.T. 2+70.35
 Δ = 52°12'20" Tan = 107.79'
 R = 220.00' Ch'd = 193.59'
 Arc = 200.46' Ch'd. Brg. = S54°29'37"E

2/12/87 1 As per Planning, DPW & SOG Comments
 REV. DATE REV. NO. REVISION DESCRIPTION

COLUMBIA
 5TH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

OWNER AND DEVELOPER
 THE HOWARD RESEARCH
 AND DEVELOPMENT LAND COMPANY

PROJECT AREA
 VILLAGE OF HICKORY RIDGE
 SECTION 3 AREA 14

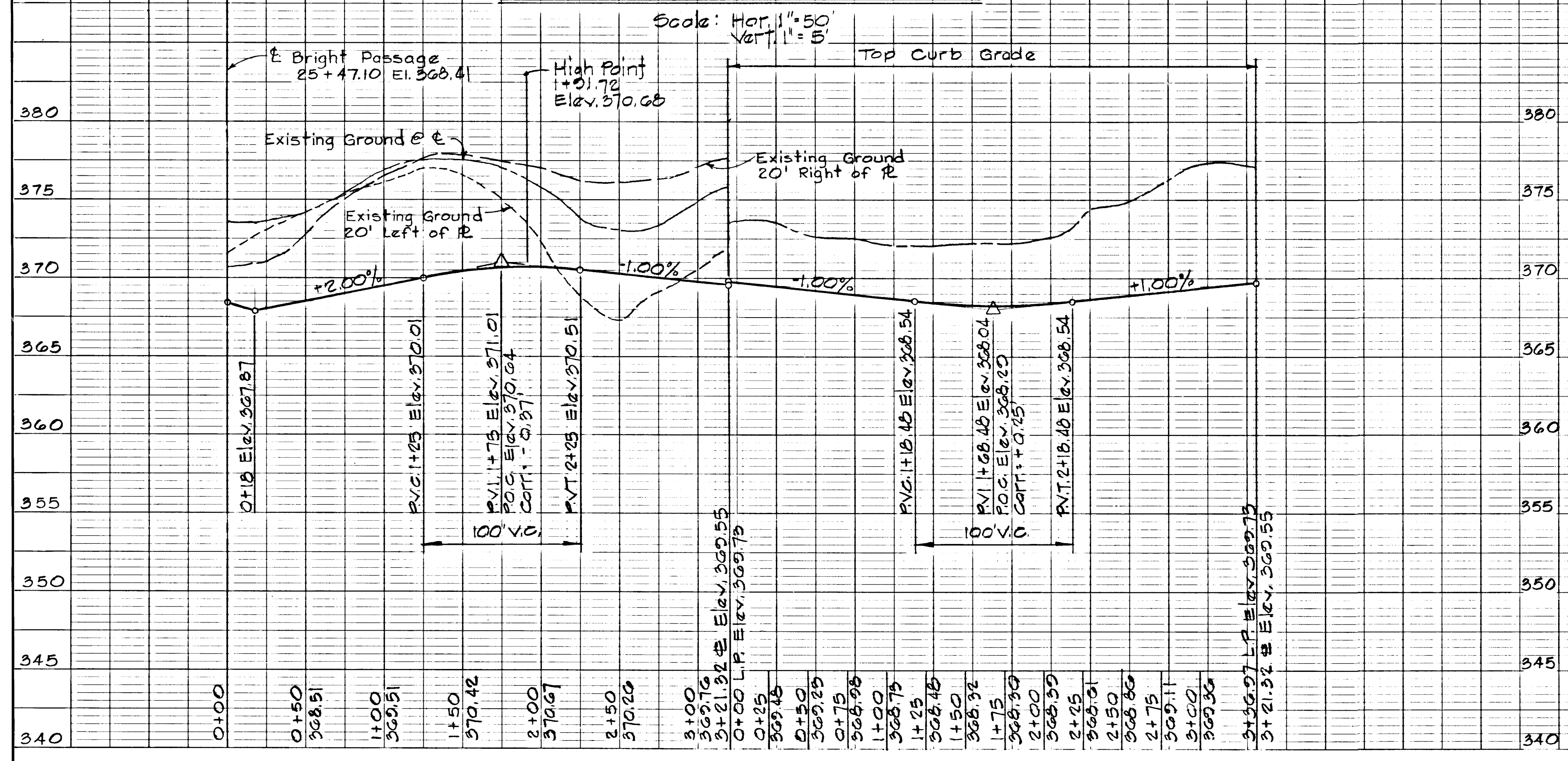
PROJECT TITLE
 PLAN AND PROFILE
 FAR EDGE PATH

SCALE: AS SHOWN DATE:

WHITMAN, REQUARDT AND ASSOCIATES
 ENGINEERS
 BALTIMORE, MARYLAND 21218

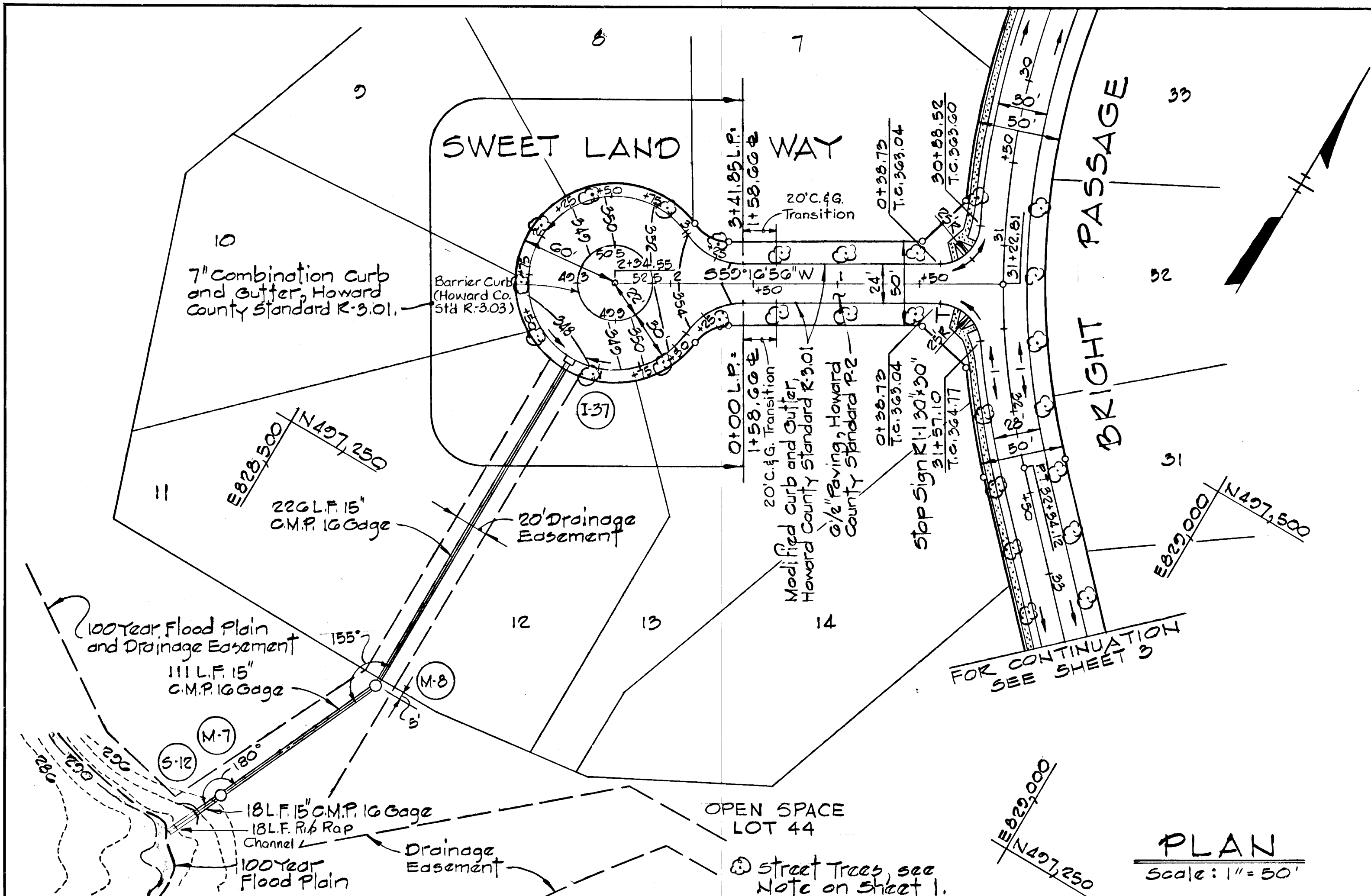
Kenneth A. McCord
 KENNETH A. MCCORD
 Registered Engineer
 NO. 1974

PROFILE - FAR EDGE PATH



DATE: _____
 BY: _____
 CHECKED: _____
 NO. _____

DATE: _____
 BY: _____
 CHECKED: _____
 NO. _____



PLAN
 Scale: 1" = 50'

STORM DRAIN STRUCTURE SCHEDULE					
NO.	TYPE	TOP EL.	INV. IN	INV. OUT	LOCATION
I-37	A-5 Inlet, width 25 (S.D. 4.01)	348.10	—	343.10	E Inlet 1.92' back L.P. Sta. 1+17.12
M-7	Standard MH (G.S. 01)	296.50	290.40	290.20	See Plan and Profile
M-8	Standard MH (G.S. 01)	315.00	307.95	307.75	See Plan and Profile
S-12	Type "A" Headwall (S.D. 3.11)	293.10	290.10	290.08	See Plan and Profile

APPROVED: DEPARTMENT OF PUBLIC WORKS
John W. Muschman 3-2-87
 CHIEF, BUREAU OF ENGINEERING
 OFFICE OF PLANNING & ZONING
 CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION

2/12/87 As per Planning, DPW 85, C5, Comments
 REV. DATE REV. NO. REVISION DESCRIPTION

COLUMBIA
5TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

OWNER AND DEVELOPER
 THE HOWAR RESEARCH
 AND DEVELOPMENT LAND COMPANY

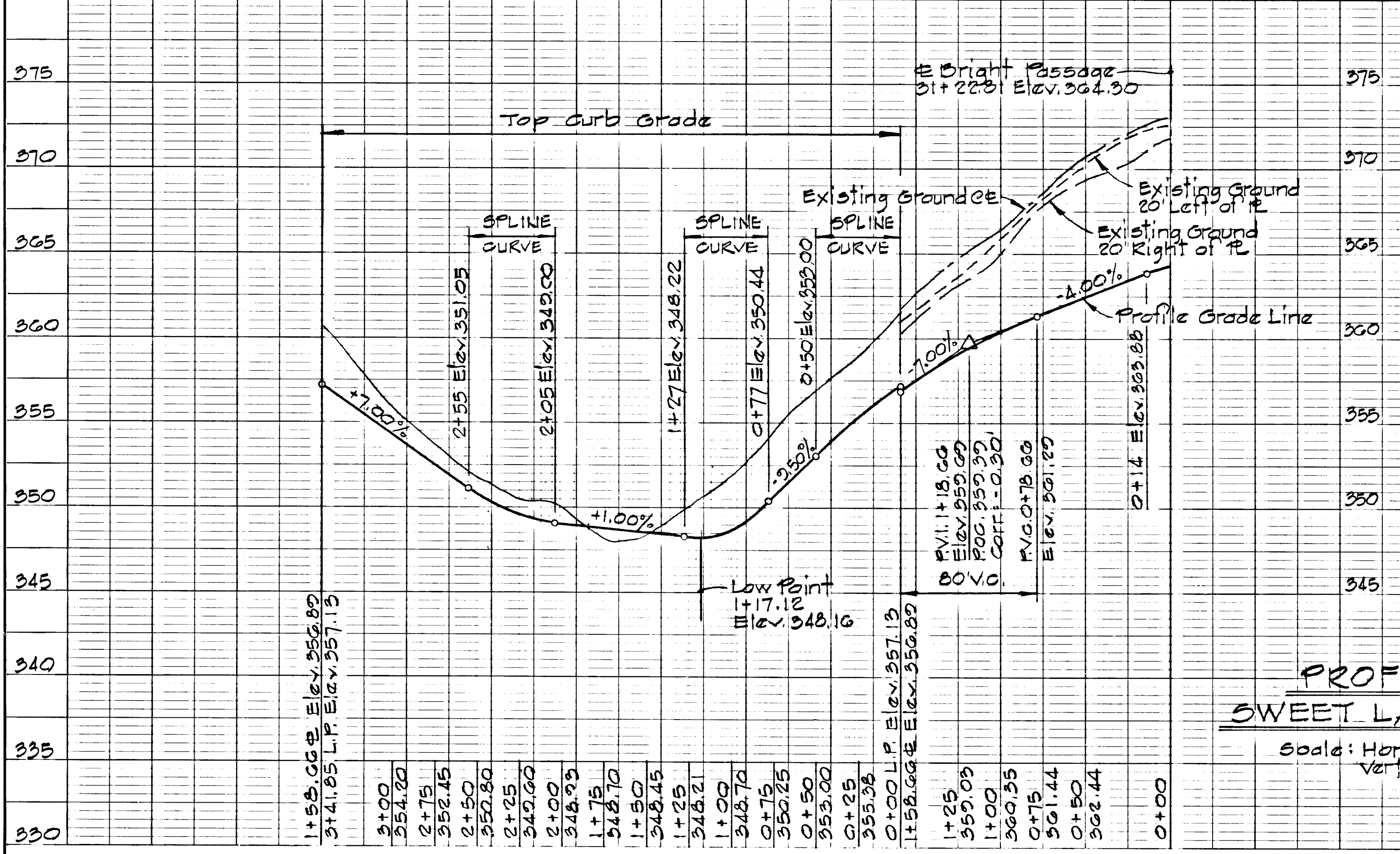
PROJECT AREA
 VILLAGE OF HICKORY RIDGE
 SECTION 3 AREA 14

PROJECT TITLE
 PLAN AND PROFILE
 SWEET LAND WAY

SCALE: AS SHOWN DATE: _____

WHITMAN, REQUARDT AND ASSOCIATES
 ENGINEERS
 BALTIMORE, MARYLAND 21218

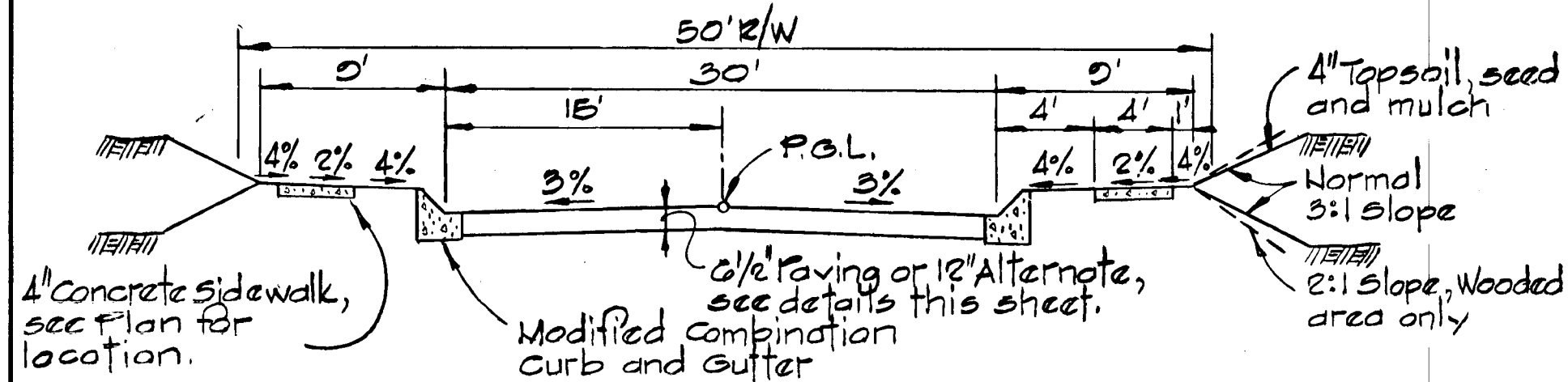
Kenneth A. McCord
 KENNETH A. MCCORD
 Registered Engineer
 NO. 1974



PROFILE
SWEET LAND WAY
 Scale: Hor: 1" = 50'
 Vert: 1" = 5'

DESIGN SPEED
30 M.P.H.

LOCAL STREET Zoning = S.F.L.D.



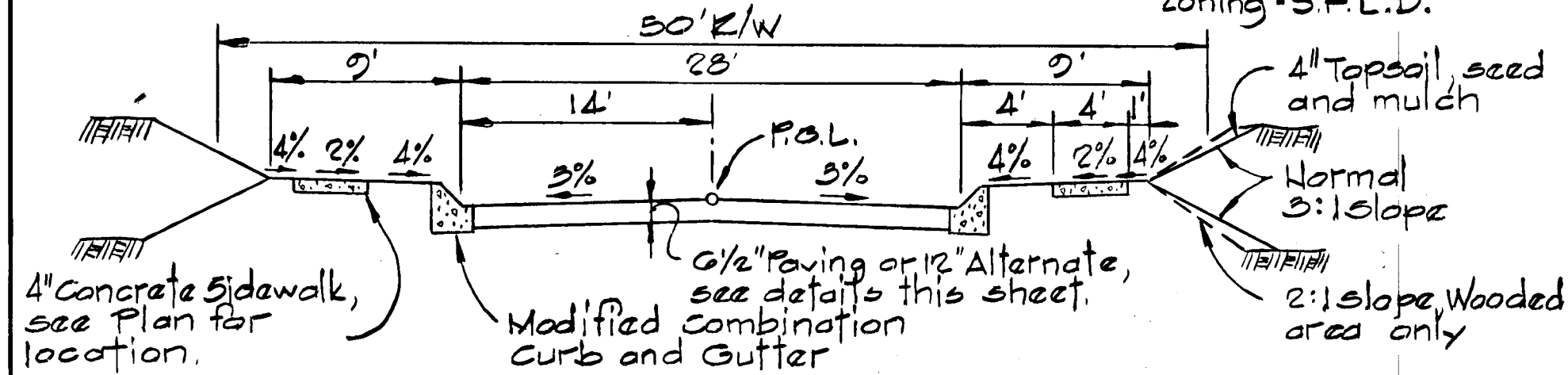
TYPICAL SECTION

No Scale
Bright Passage - 27+00 to 31+60

Design Speed
30 M.P.H.

CUL-DE-SAC

* Note: Portion of Far Edge Path is designed for 25 M.P.H.
Zoning - S.F.L.D.



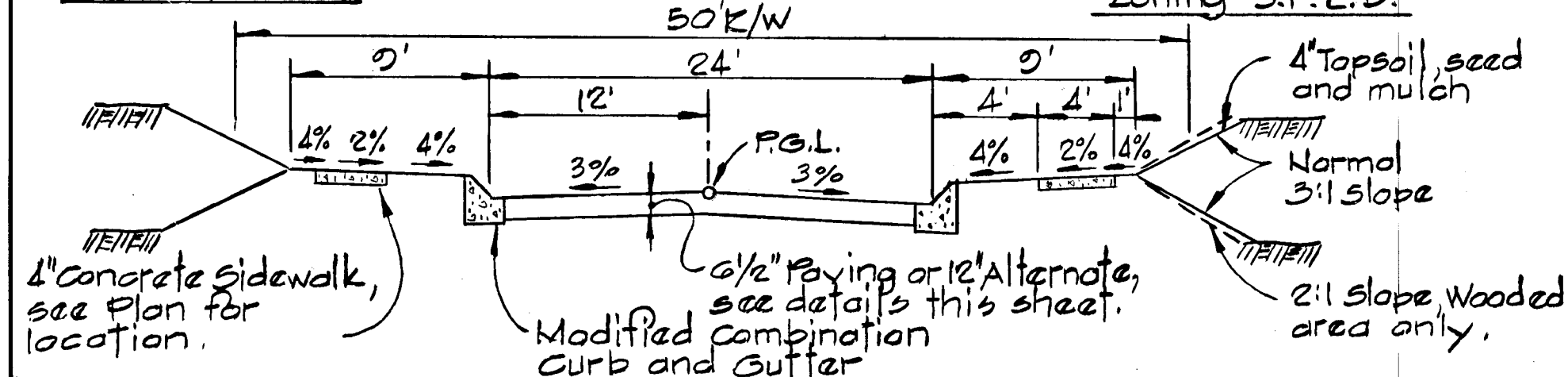
TYPICAL SECTION

No Scale
Bright Passage - 31+60 to 38+49 * Far Edge Path - 0+18 to 3+21

Design Speed
Not Applicable

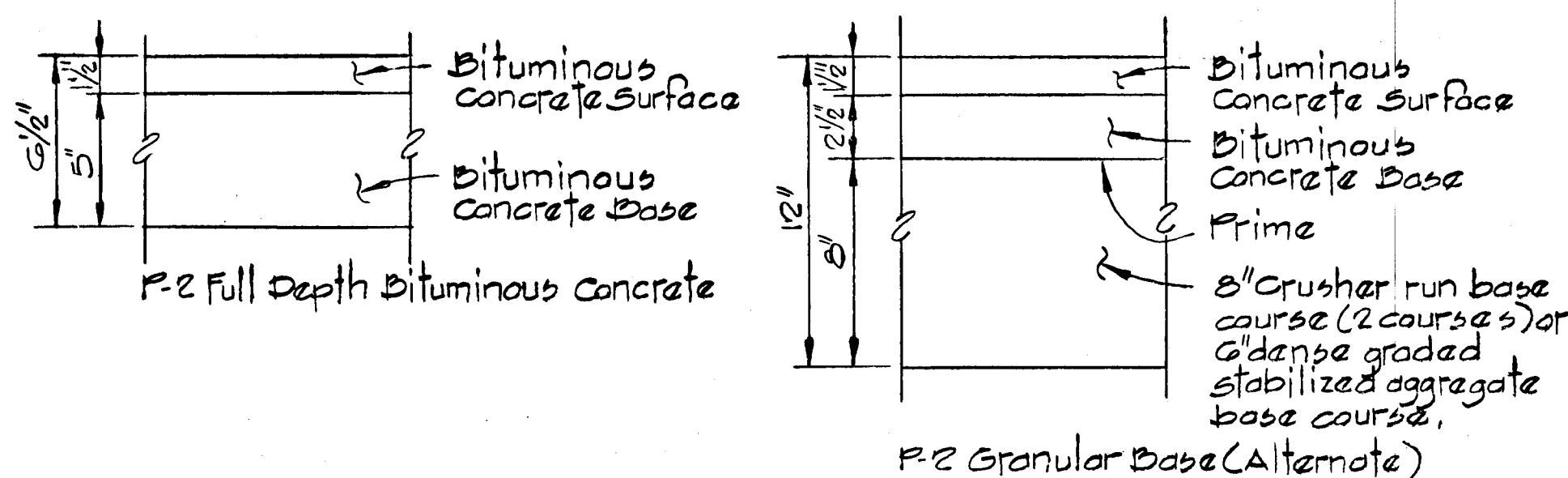
CUL-DE-SAC

Zoning - S.F.L.D.



TYPICAL SECTION

Sweet Land Way - 0+18 to 1+59



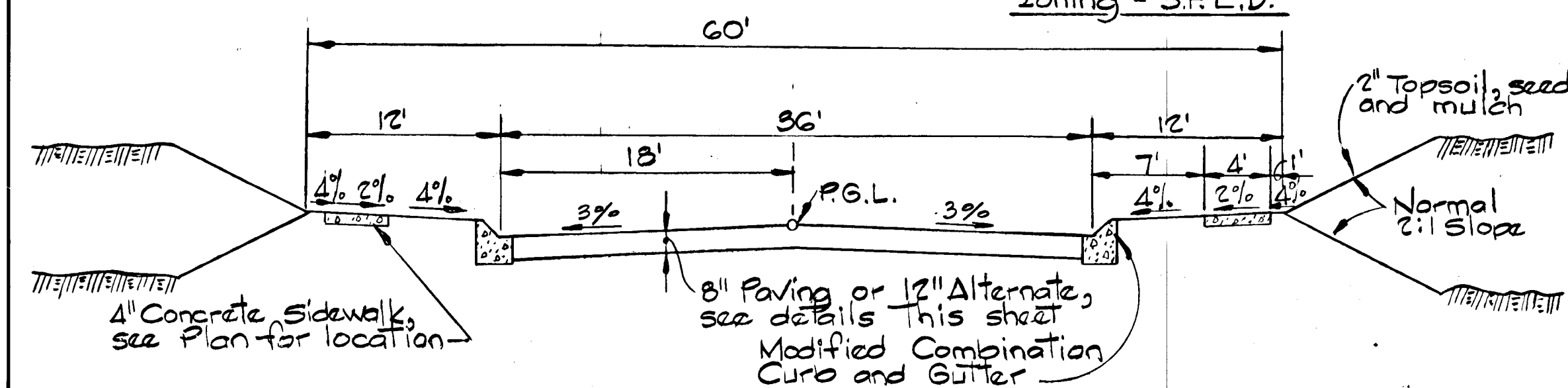
TYPICAL PAVING SECTION

No Scale

Design Speed
35 MPH

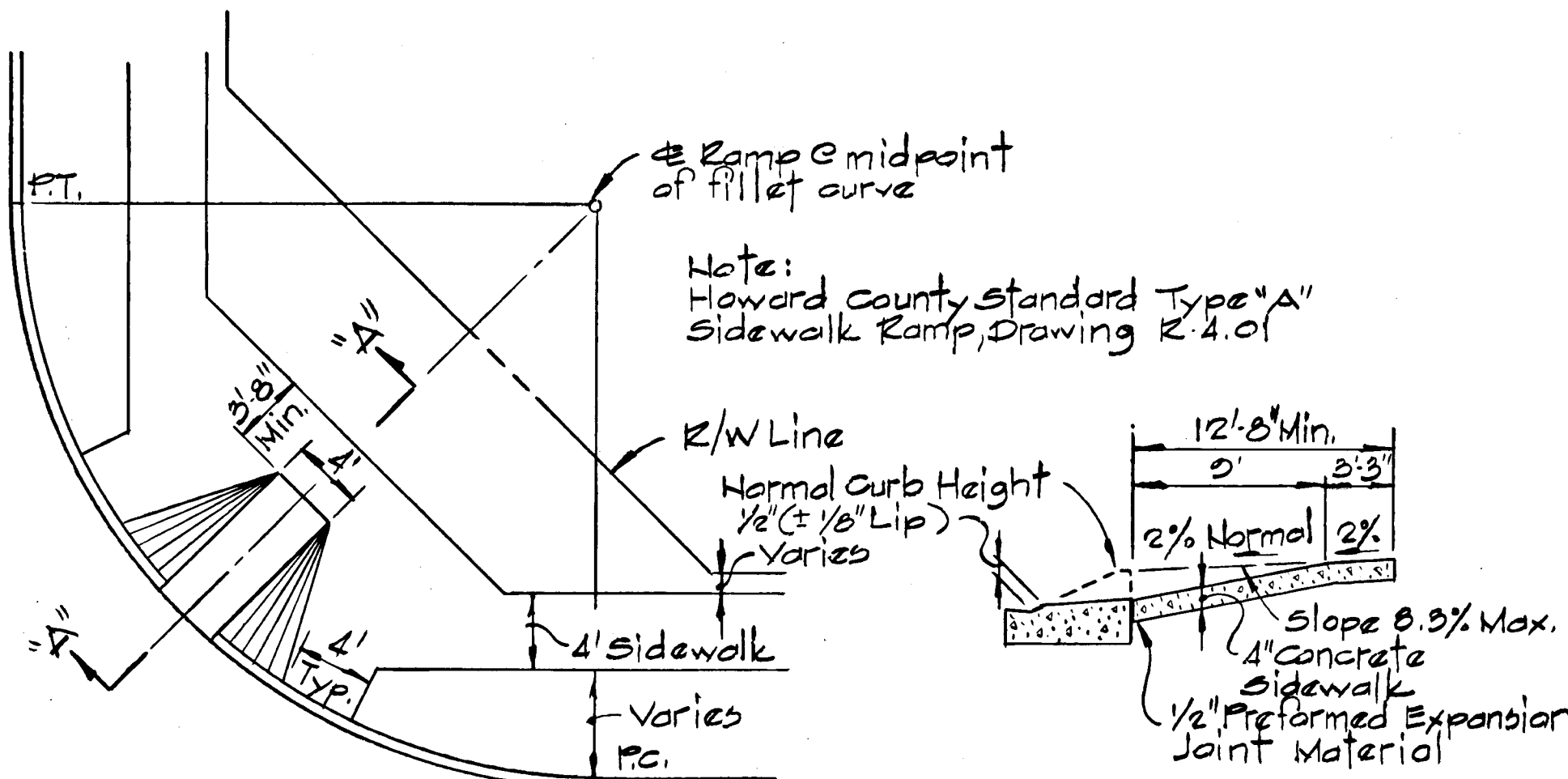
MINOR COLLECTOR

Zoning - S.F.L.D.



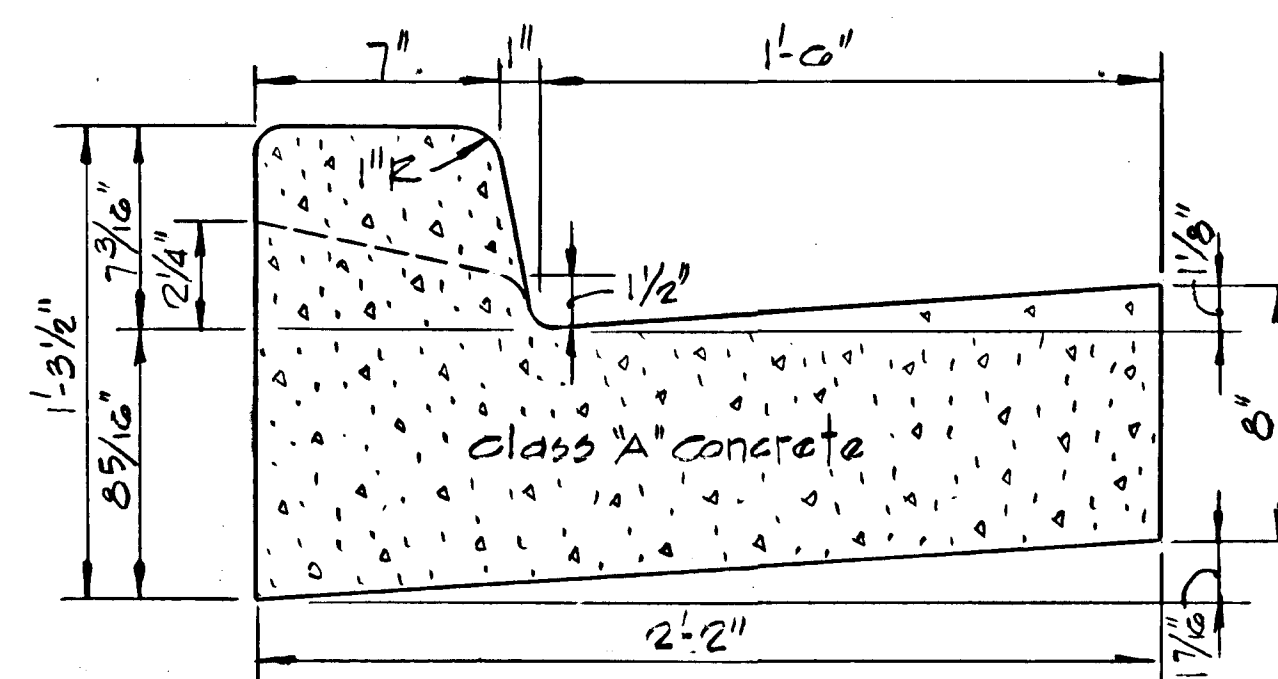
TYPICAL SECTION

No Scale
Bright Passage - 24+21 to 25+81



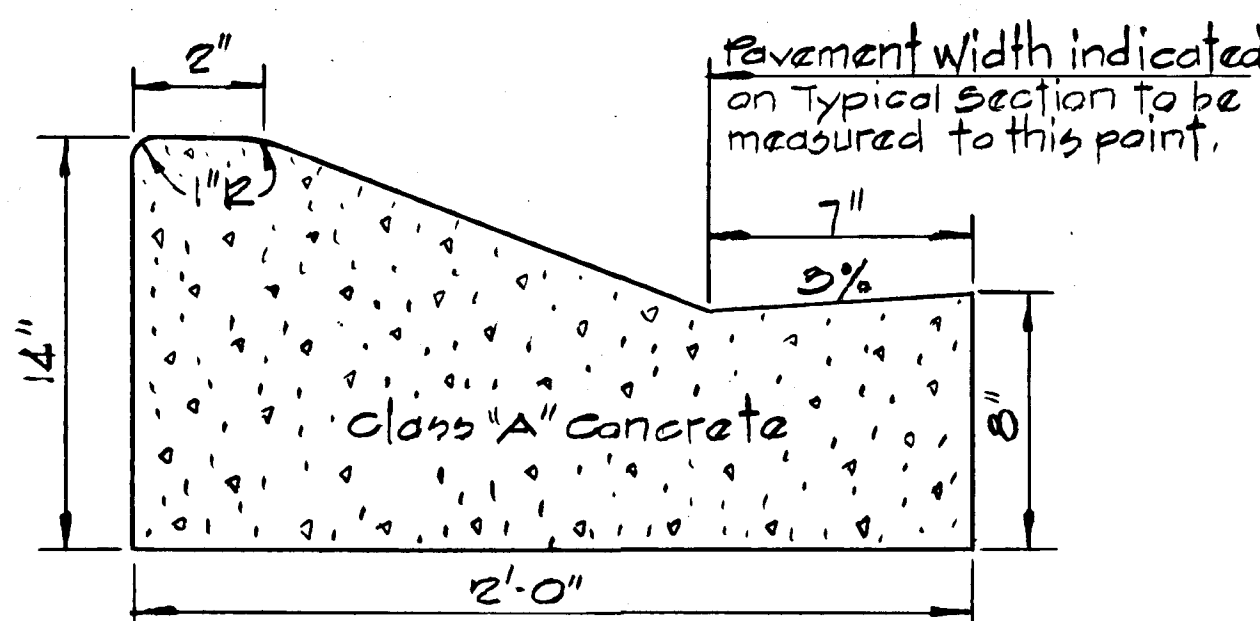
PLAN SECTION "A-A"
WHEEL CHAIR RAMP DETAIL

No Scale



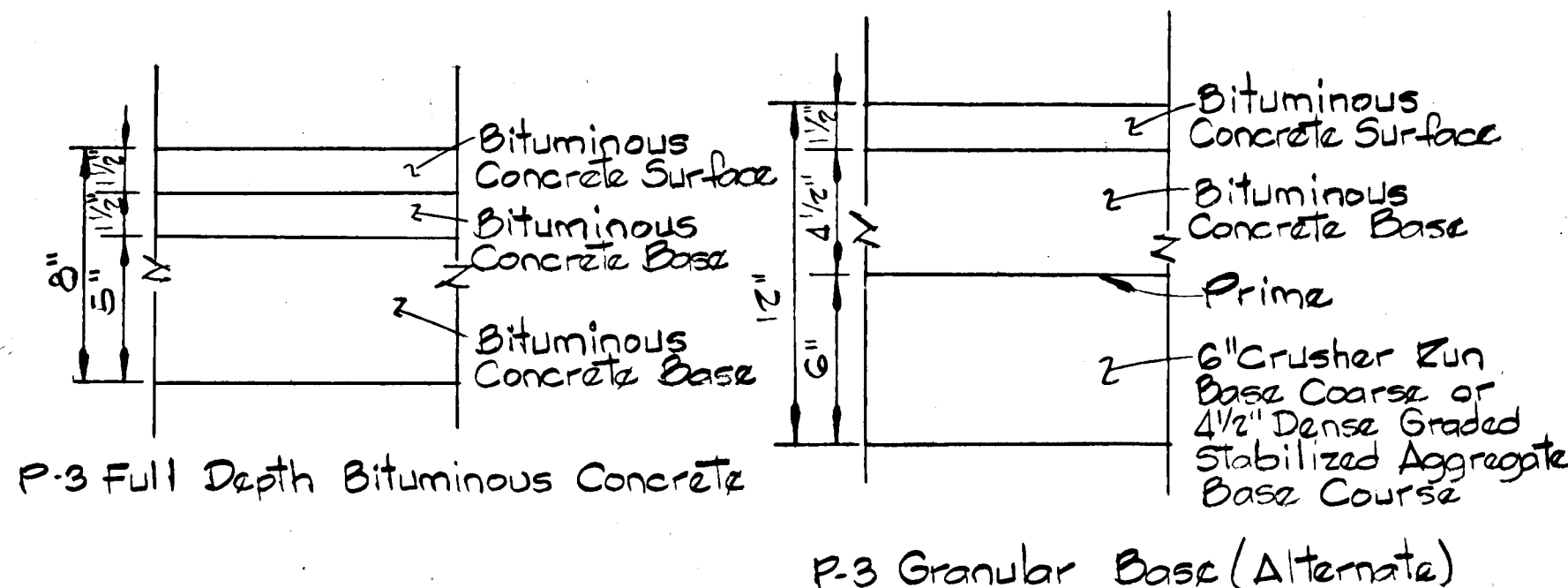
STANDARD 7\"/>

No Scale



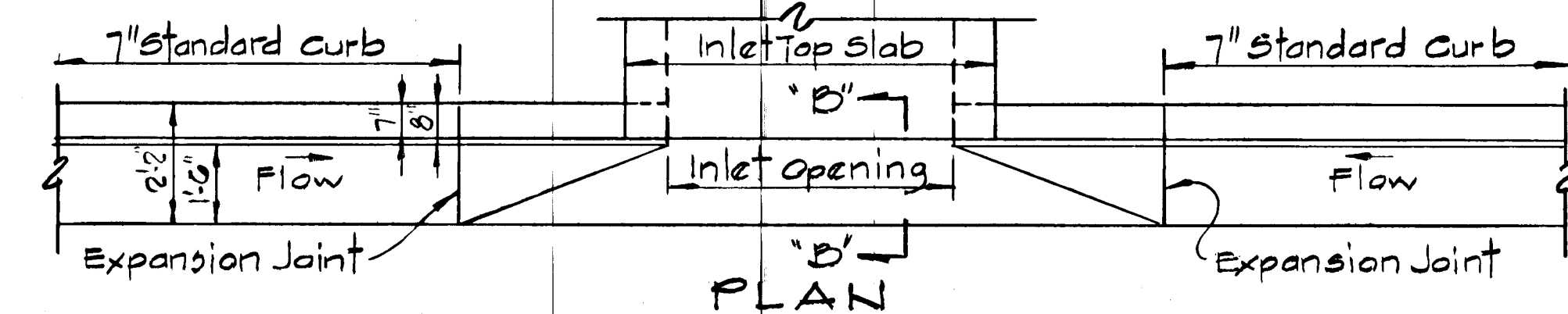
MODIFIED COMBINATION CURB & GUTTER

No Scale

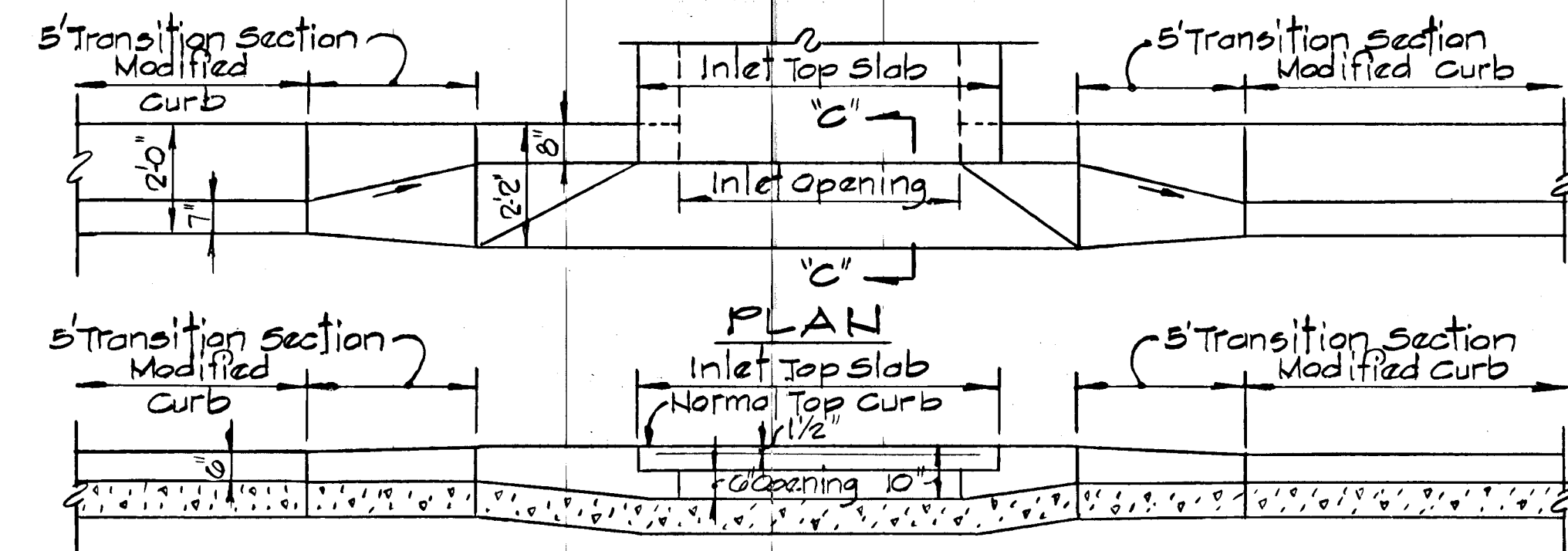


TYPICAL PAVING SECTION

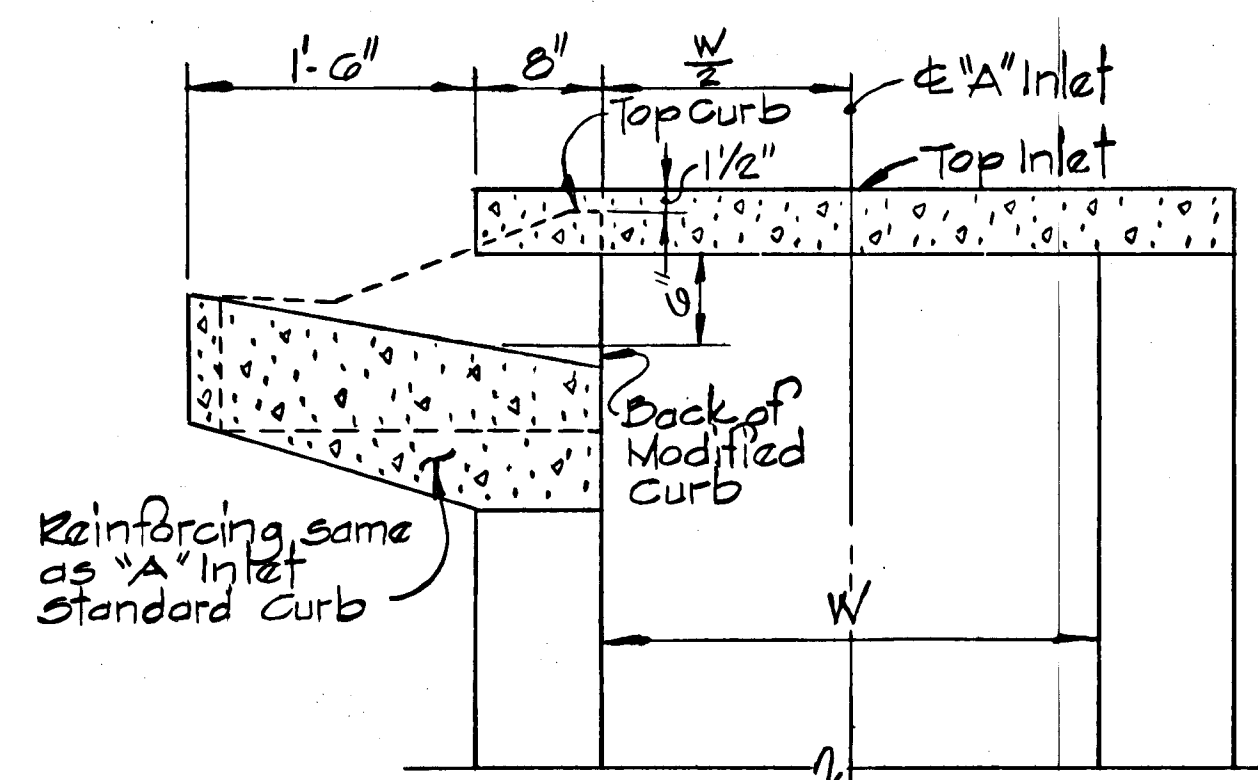
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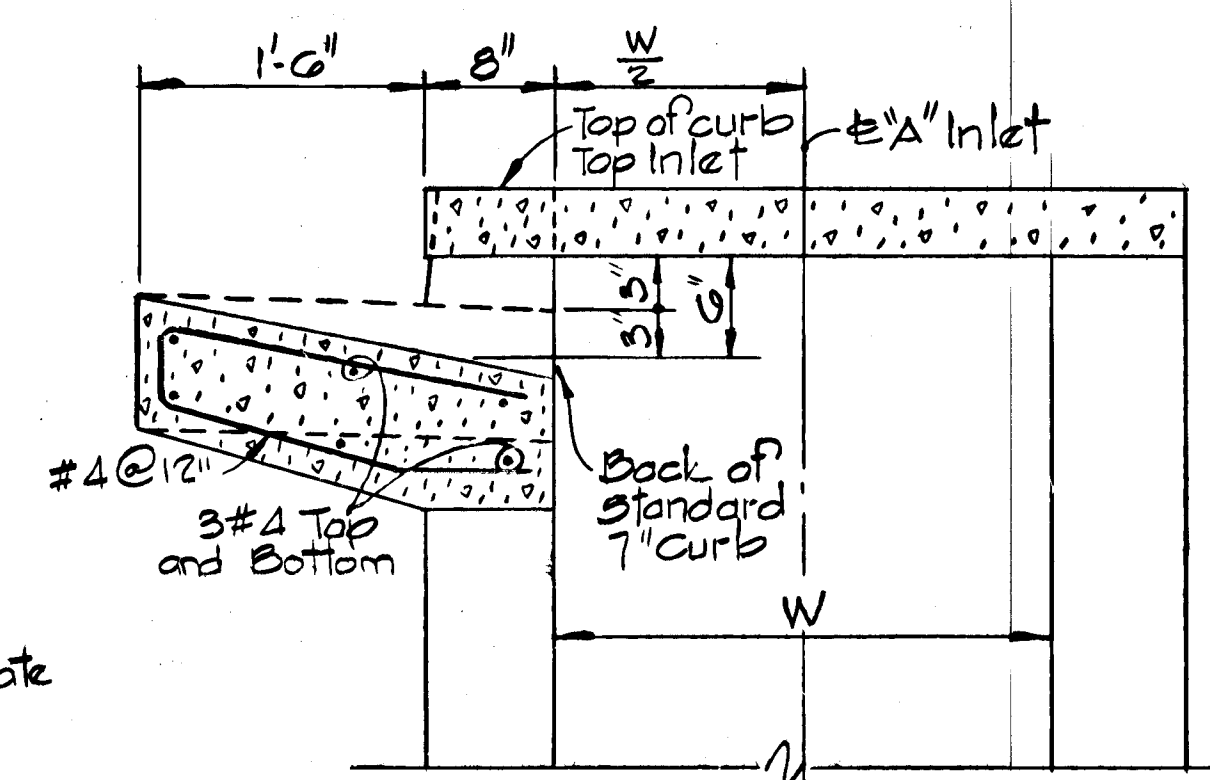
SECTION ALONG FLOW LINE
SUMPED "A" INLETS - STANDARD CURB



SECTION ALONG FLOW LINE
"A" INLETS - MODIFIED CURB



SECTION "C-C"
"A" INLET MODIFIED CURB



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

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

REV. DATE	REV. NO.	DESCRIPTION
2/12/87	1	As per Planning, DPW & SCS Comments

COLUMBIA
5th ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

OWNER AND DEVELOPER
THE HOWARD RESEARCH
AND DEVELOPMENT LAND COMPANY
PROJECT AREA
VILLAGE OF HICKORY RIDGE
SECTION 3 AREA 14

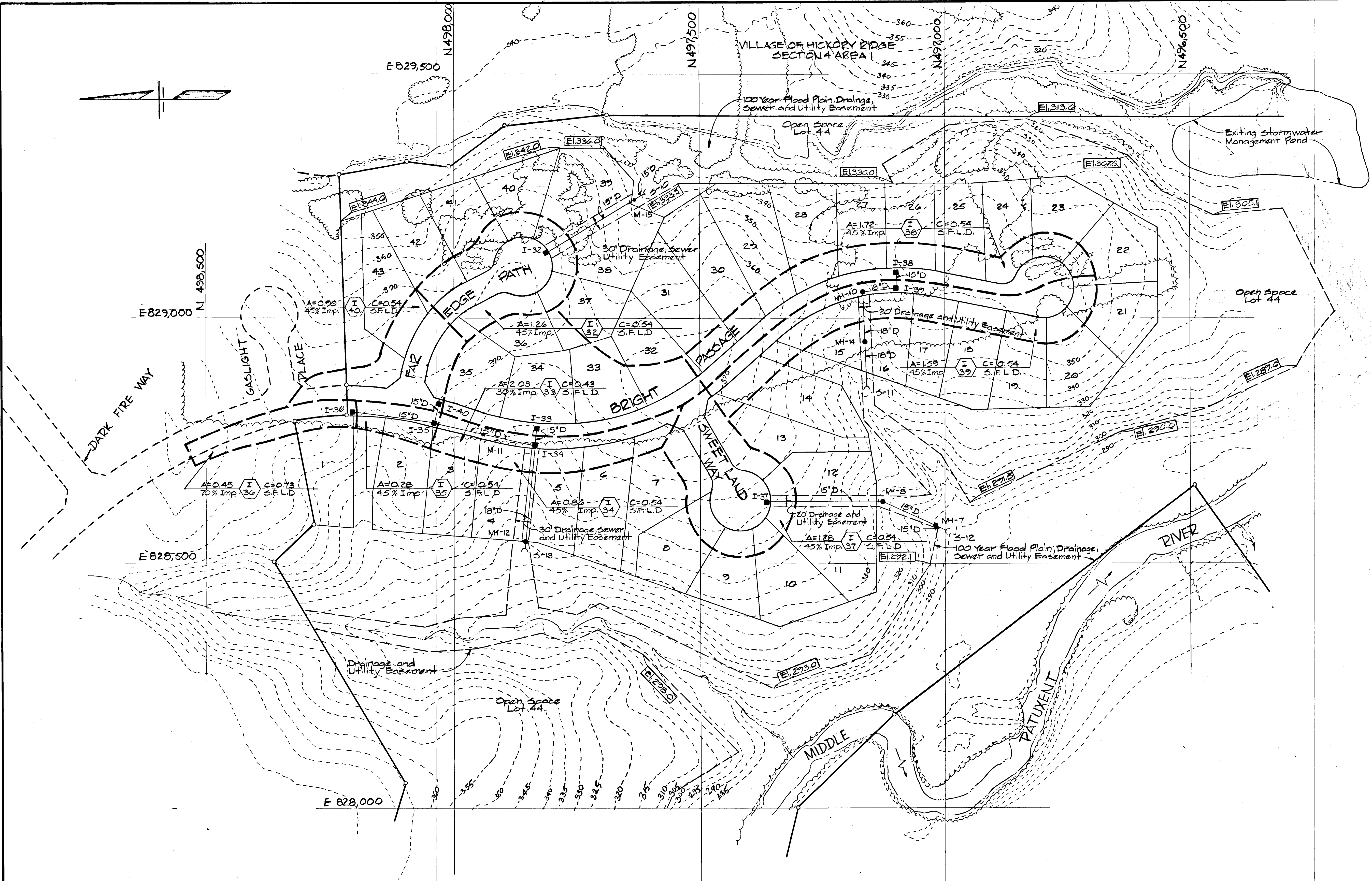
PROJECT TITLE
ROADWAY AND
STORM DRAIN DETAILS

SCALE: AS SHOWN DATE:

WHITMAN, REQUAZOT AND ASSOCIATES
ENGINEERS
BALTIMORE, MARYLAND 21218

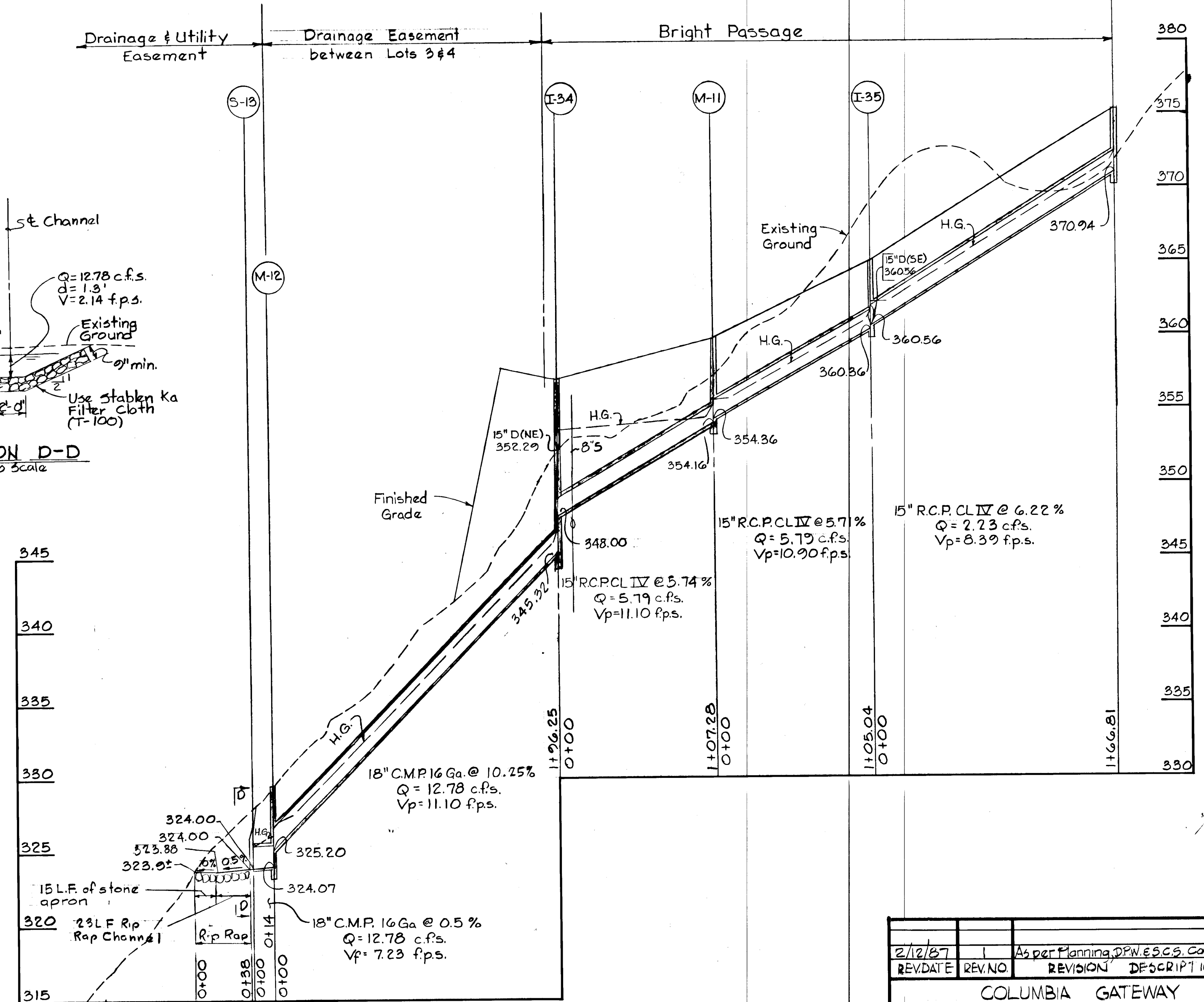
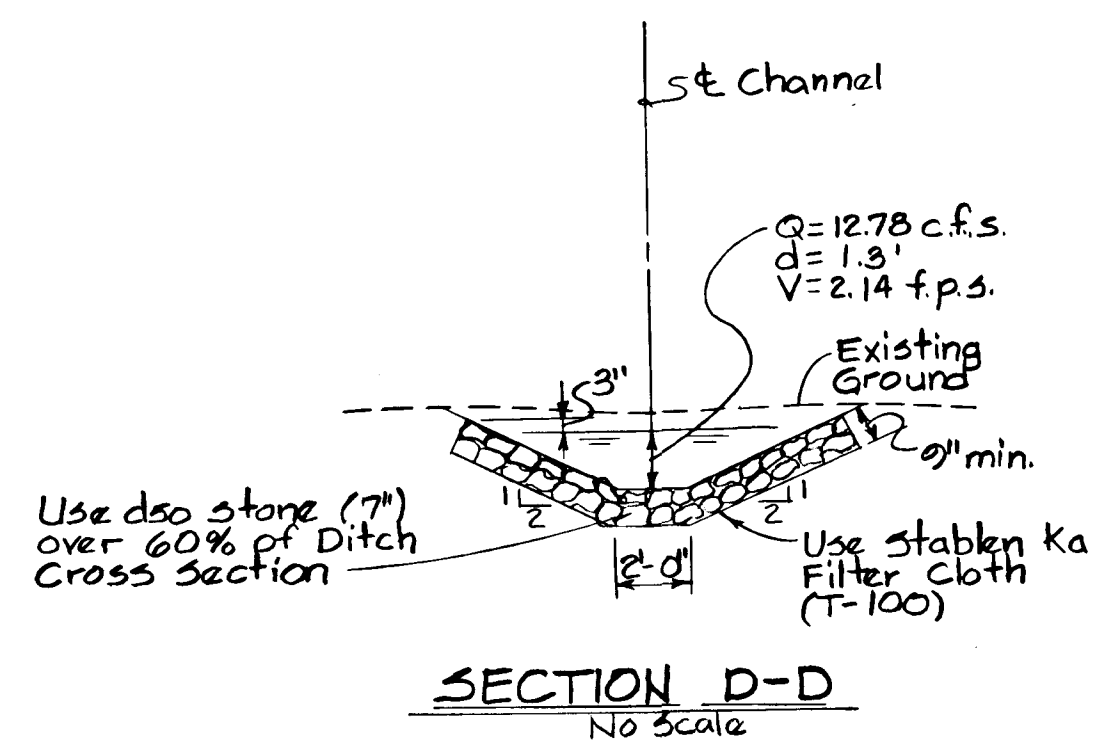
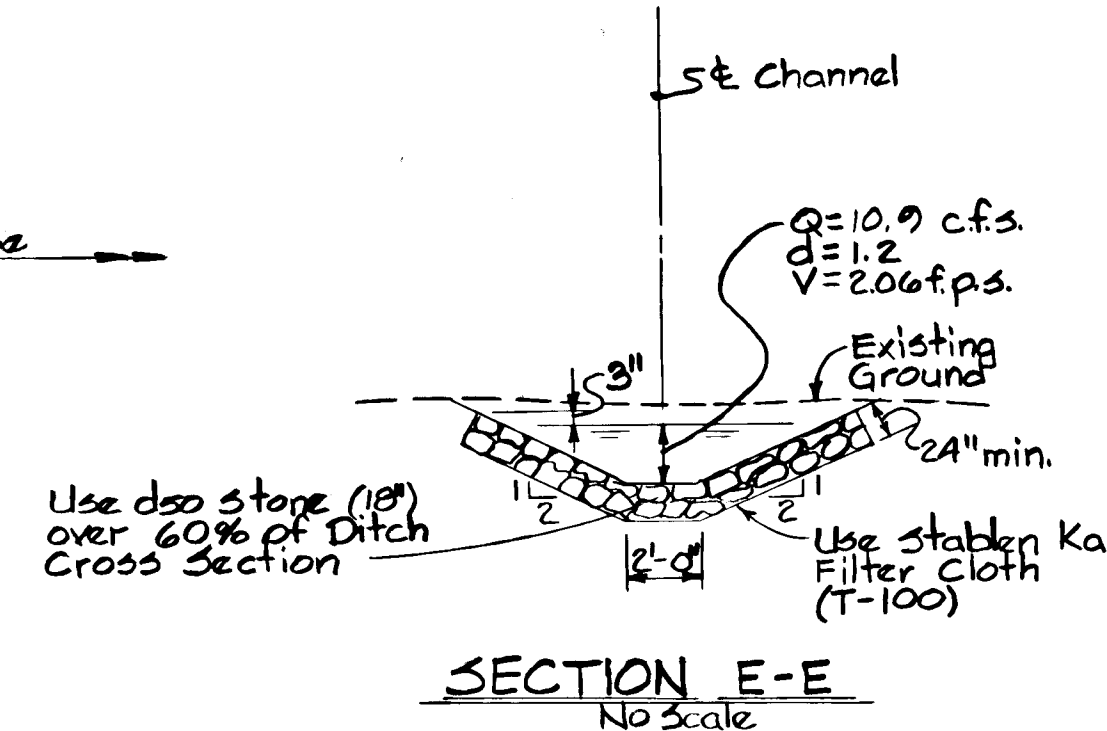
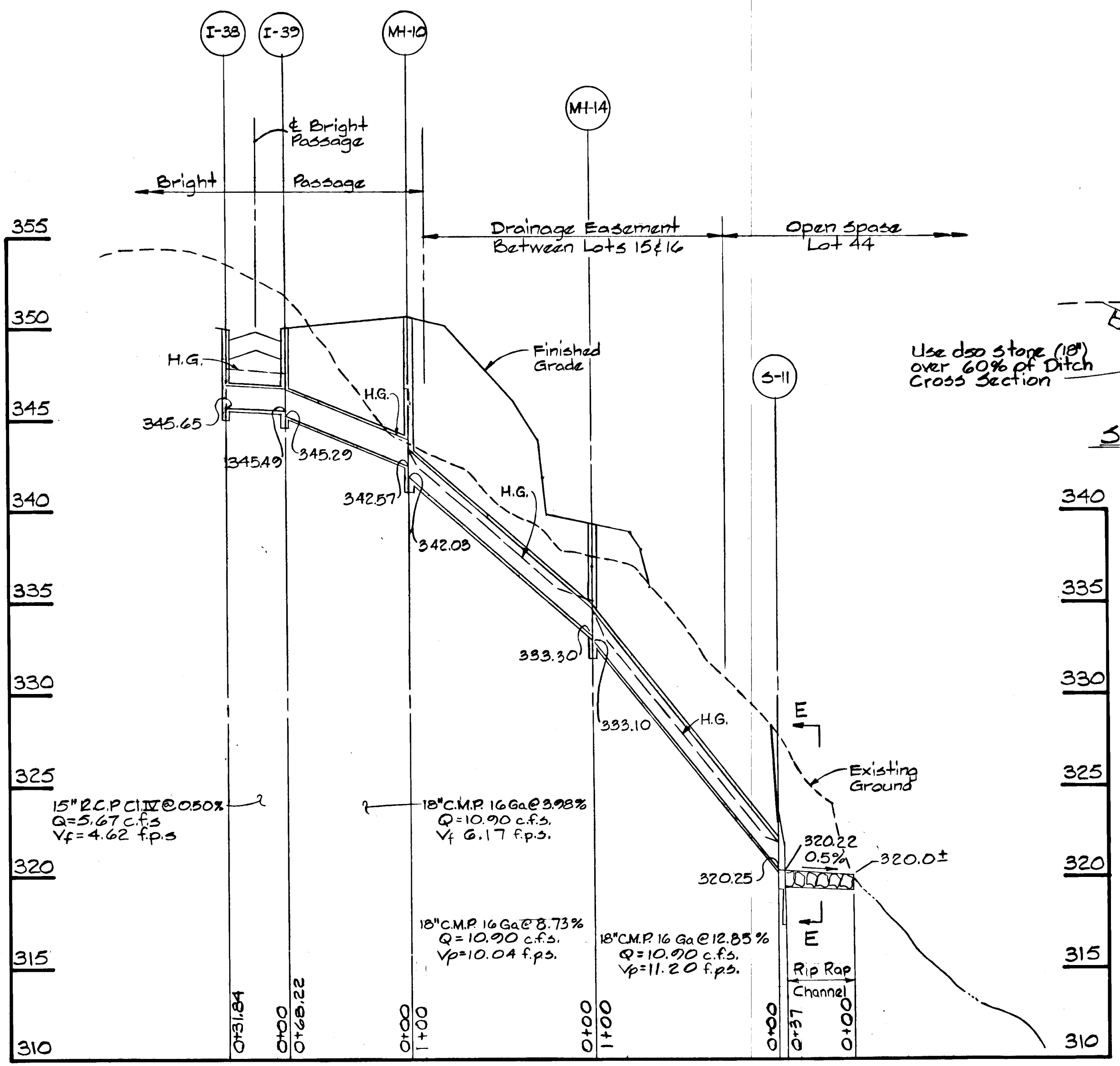
Kenneth A. McCord
REGISTERED ENGINEER
No. 1074

APPROVED: DEPARTMENT OF PUBLIC WORKS
 2/12/87
 CHIEF, BUREAU OF ENGINEERING 3-2-87
 OFFICE OF PLANNING & ZONING
 DATE
 DEVELOPMENT AND ZONING ADMINISTRATION

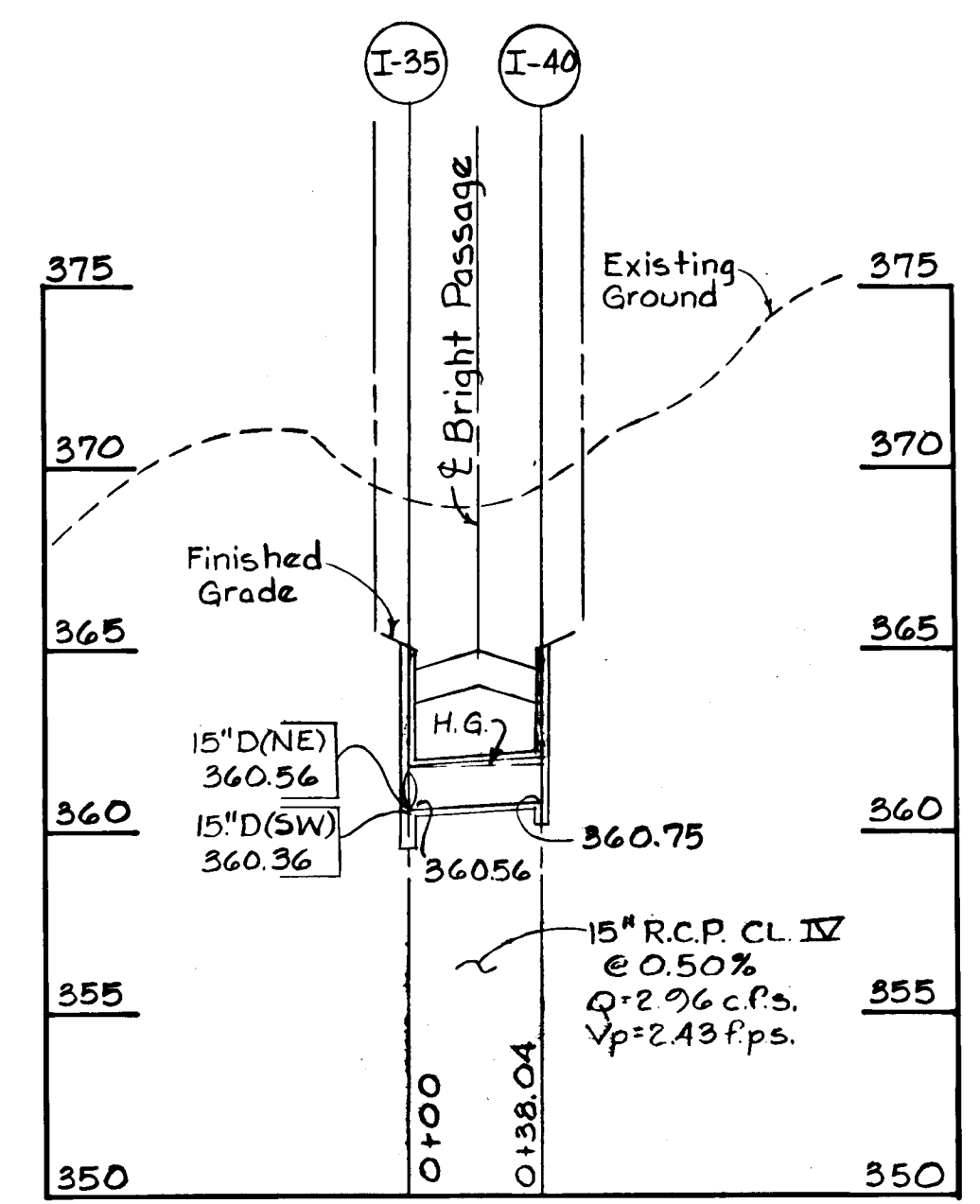
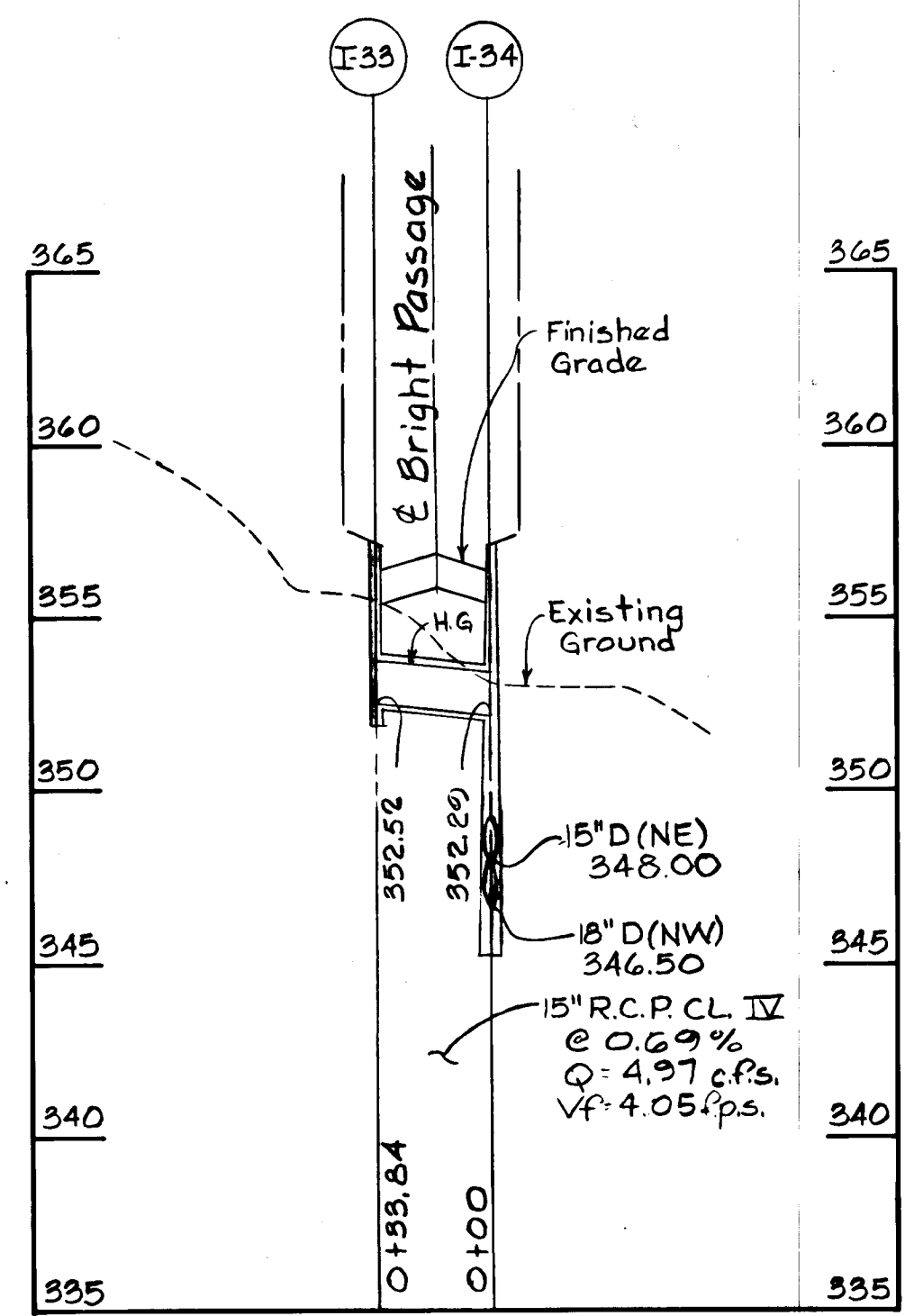


2/12/87	1	As per Planning, P.W. & S.C.S. Comments
REV. DATE	REV. NO.	REVISION DESCRIPTION
VILLAGE OF HICKORY RIDGE 5 TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND		
OWNER AND DEVELOPER THE HOWARD RESEARCH AND DEVELOPMENT LAND COMPANY		
PROJECT AREA VILLAGE OF HICKORY RIDGE SECTION 3 AREA 14		
PROJECT TITLE DRAINAGE AREA MAP		
SCALE: 1" = 100'		DATE:
WHITMAN, REQUARDI AND ASSOCIATES ENGINEERS BALTIMORE, MARYLAND 21218		
Kenneth A. McCord Registered Engineer No. 1974		

42



PROFILES
 Scale: Hor. 1" = 50'
 Vert. 1" = 5'



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 over excavated 6" and the over excavation of 6" refilled with granular material.

REV. DATE	REV. NO.	REVISION	DESCRIPTION
2/12/87	1	As per Planning, DPW, E.S.C.S. Comments	

COLUMBIA GATEWAY
 6th ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

OWNER AND DEVELOPER:
 THE HOWARD RESEARCH
 AND DEVELOPMENT CORPORATION

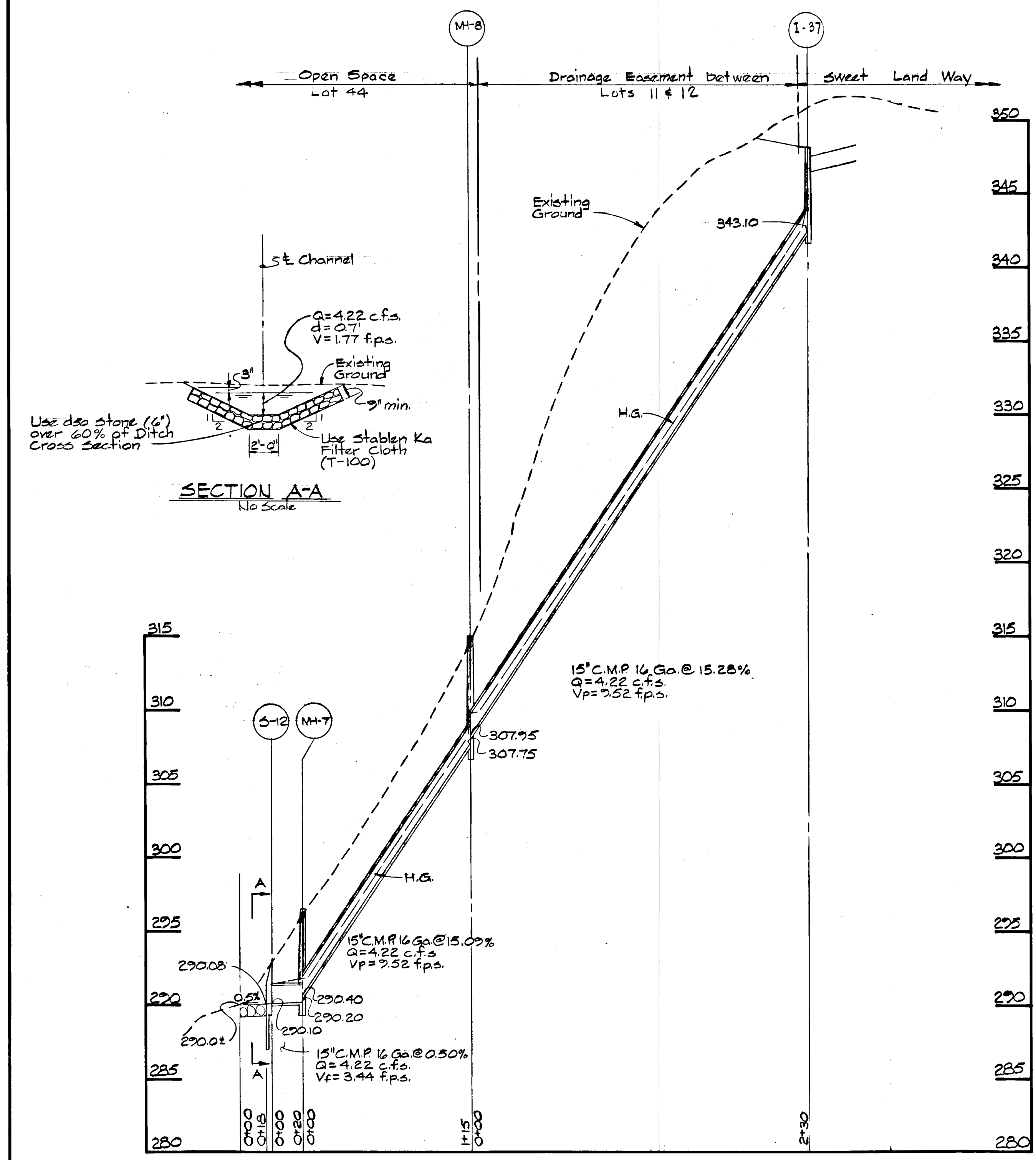
PROJECT AREA:
 VILLAGE OF HICKORY RIDGE
 SECTION B AREA 14

PROJECT TITLE:
 STORM DRAIN PROFILES

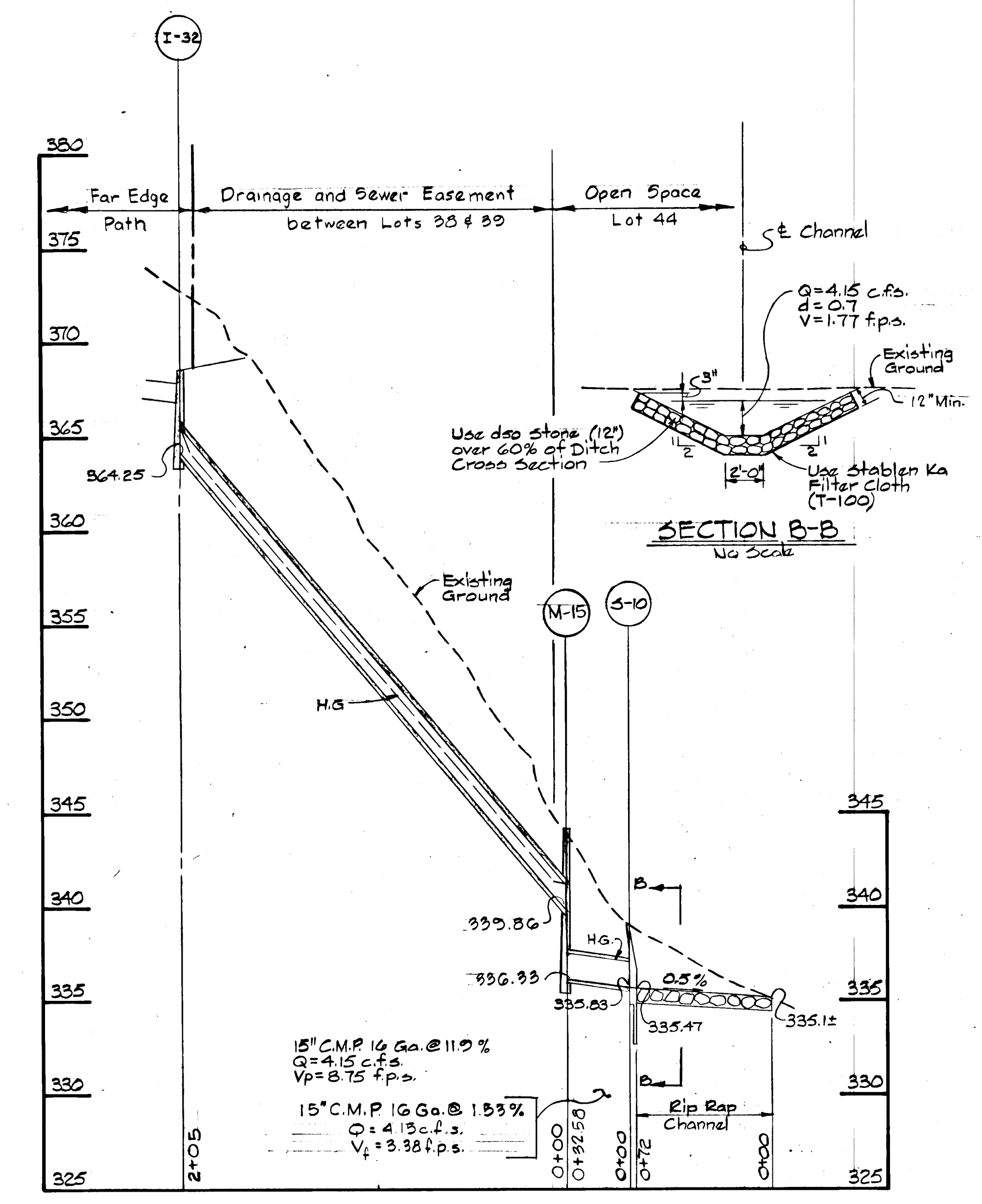
SCALE: DATE:
 WHITMAN, REARDY AND ASSOCIATES
 ENGINEERS
 BALTIMORE, MARYLAND 21218

Kenneth A. McCord
 Registered Engineer
 No. 1974

APPROVED: DEPARTMENT OF PUBLIC WORKS
 3-3-87
 CHIEF BUREAU OF ENGINEERING /ms/ DALE
 OFFICE OF PLANNING & ZONING
 3-2-87
 CHIEF DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION



PROFILES
 Scale: Hor. 1" = 50'
 Vert. 1" = 5'



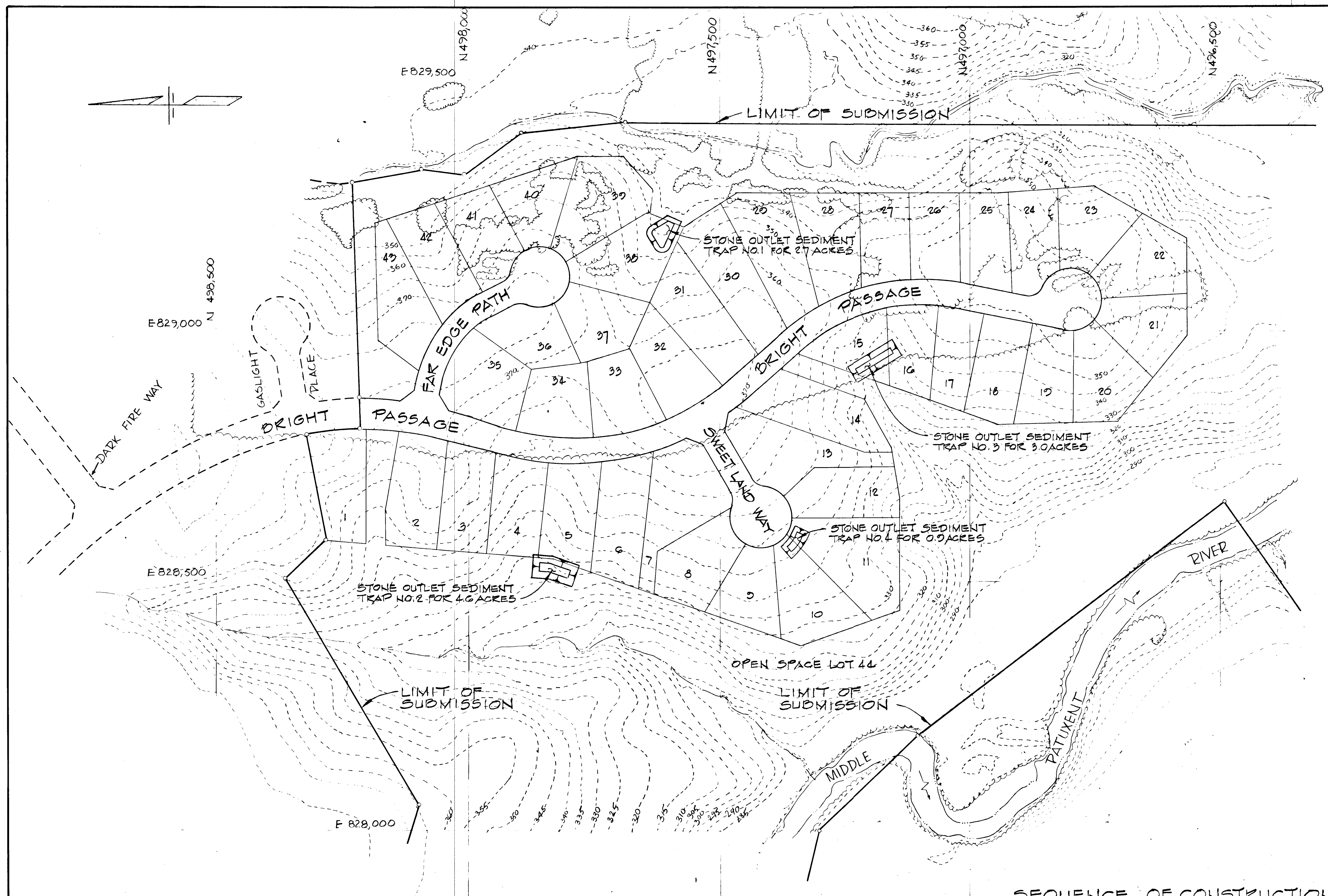
REV. DATE	REV. NO.	REVISION DESCRIPTION
2/12/87	1	As per Planning, DPW, & SCS. Comment

COLUMBIA GATEWAY
 6th ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 OWNER AND DEVELOPER
 THE HOWARD RESEARCH
 AND DEVELOPMENT CORPORATION
 PROJECT AREA
 VILLAGE OF HICKORY RIDGE
 SECTION 3 AREA 14
 PROJECT TITLE
 STORM DRAIN PROFILES
 SCALE: DATE:
 WHITMAN, REQUARDT AND ASSOCIATES
 ENGINEERS
 BALTIMORE, MARYLAND 21218

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

42

APPROVED: DEPARTMENT OF PUBLIC WORKS
 2/2/87 2.2.0.1
 CHIEF BUREAU OF ENGINEERING
 JOHN W. MULLERMAN 3-2-87
 CHIEF DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION



REVIEWED FOR HOWARD S.C.D. AND MEETS TECHNICAL REQUIREMENTS
 J. Helm 3/2/87 DATE
 U.S. SOIL CONSERVATION SERVICE
 THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
 APPROVED: [Signature] 3/2/87 HOWARD S.C.D. DATE

CERTIFICATION BY THE DEVELOPER
 I HAVE 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 1-9-87 DATE
 WALTER E. WOODFORD

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."

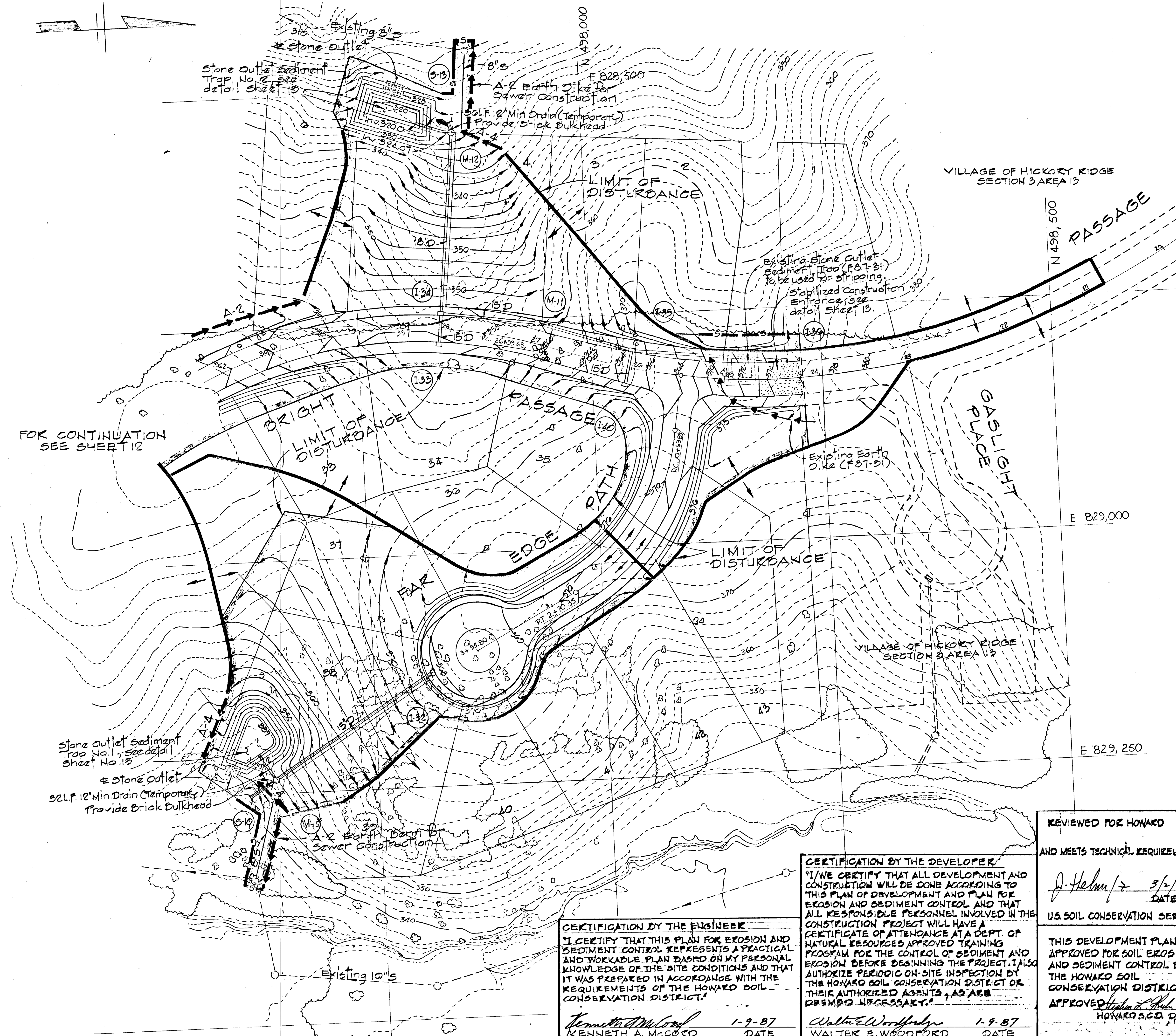
Kenneth A. McCord 1-9-87 DATE
 KENNETH A. MCCORD

STORMWATER MANAGEMENT FOR THIS PROJECT HAS BEEN PROVIDED IN THE VILLAGE OF HICKORY RIDGE SECTION 3 AREA 1-F 83-120.

SEQUENCE OF CONSTRUCTION

1. CONTACT SEDIMENT CONTROL INSPECTOR FOR INSTRUCTIONS ON UPDATING PERMIT AND PRECONSTRUCTION MEETING PRIOR TO ANY CONSTRUCTION.
2. CLEANOUT AND REPAIR TRAPS AND DIKES AS REQUIRED, AND INSTALL ADDITIONAL SILT FENCE AND DIKES.
3. CONSTRUCT ALL UTILITIES, PROVIDE TEMPORARY STORM DRAIN DIVERSIONS INTO TRAPS AND DIRECT RUNOFF INTO INLETS WITH BERMS (EARTH OR ASPHALT).
4. FINE GRADE ROADS, CONSTRUCT CURB AND GUTTER, SIDEWALKS AND SEED DISTURBED AREAS.
5. PAVE ROADS.
6. WITH PERMISSION OF SEDIMENT CONTROL INSPECTOR, REMOVE ALL SEDIMENT CONTROL FACILITIES AFTER GRASS IS ESTABLISHED IN THE CONTRIBUTING DRAINAGE AREA. STABILIZE SEDIMENT TRAP REMOVAL AREA, SEE PERMANENT SEEDING NOTES.

2/2/87	1	Upper Planning, D.P.W. & S.C.S. Comments
REV. DATE	REV. NO.	REVISION DESCRIPTION
COLUMBIA 5 th ELECTION DISTRICT HOWARD COUNTY, MARYLAND		
OWNER AND DEVELOPER THE HOWARD RESEARCH AND DEVELOPMENT LAND COMPANY		
PROJECT AREA VILLAGE OF HICKORY RIDGE SECTION 3 AREA 14		
PROJECT TITLE SEDIMENT CONTROL LOCATION PLAN		
SCALE: 1"=100'		DATE:
WHITMAN, REQUARDT AND ASSOCIATES ENGINEERS BALTIMORE, MARYLAND 21218		
[Signature]		[Seal]
KENNETH A. MCCORD Registered Engineer No. 1974		



LEGEND

- DRAINAGE
- ← EARTH DIKE
- S SILT FENCE

DESIGN DATA FOR SEDIMENT TRAP NO. 2
 DRAINAGE AREA (STRIPPING) - 3.5 ACRES
 DRAINAGE AREA (GRADING) - 1.0 ACRES
 DISTURBED AREA - 2.8 ACRES
 VOLUME REQUIRED - 1.6' x 67' = 308 CT.
 VOLUME AVAILABLE - 310 CT.
 TOP OF BERM ELEVATION - 328.0
 WEIR CREST ELEVATION - 327.0
 LENGTH OF WEIR - 18'
 STORAGE ELEVATION - 326.0
 BOTTOM ELEVATION - 320.0

DESIGN DATA FOR SEDIMENT TRAP NO. 1
 DRAINAGE AREA (STRIPPING) - 2.7 ACRES
 DRAINAGE AREA (GRADING) - 2.5 ACRES
 DISTURBED AREA - 2.2 ACRES
 VOLUME REQUIRED - 2.7' x 67' = 181 CT.
 VOLUME AVAILABLE - 191 CT.
 TOP OF BERM ELEVATION - 342.0
 WEIR CREST ELEVATION - 341.0
 LENGTH OF WEIR - 13'
 STORAGE ELEVATION - 340.0
 BOTTOM ELEVATION - 337.0

FOR CONTINUATION SEE SHEET 12

Stone Outlet Sediment Trap No. 1, see detail sheet No. 13
 Stone Outlet
 32 L.F. 12" Min. Drain (Temporary)
 Provide Brick Bulkhead

Stone Outlet Sediment Trap No. 2, see detail sheet No. 15
 Stone Outlet

A-2 Earth Dike for Sewer Construction
 32 L.F. 12" Min. Drain (Temporary)
 Provide Brick Bulkhead

Existing Stone Outlet Sediment Trap (F&T-31) to be used for stripping.
 Stabilized Construction Entrance, see detail sheet 13.

Existing Earth Dike (F&T-31)

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 1-9-87
 KENNETH A. MCCORD DATE

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 1-9-87
 WALTER E. WOODFORD DATE

REVIEWED FOR HOWARD AND MEETS TECHNICAL REQUIREMENTS
 J. Helms / 3-2-87
 DATE
 U.S. SOIL CONSERVATION SERVICE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
 APPROVED / 3-2-87
 HOWARD S.C.D. DATE

REV. DATE	REV. NO.	REVISION DESCRIPTION
2/12/87	1	As per Planning D.P.W. 8305 Comments

COLUMBIA
 6TH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

OWNER AND DEVELOPER
 THE HOWARD RESEARCH AND DEVELOPMENT LAND COMPANY

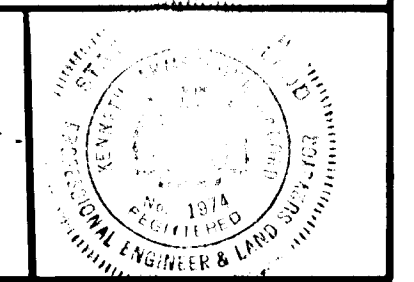
PROJECT AREA
 VILLAGE OF HICKORY RIDGE SECTION 3 AREA 14

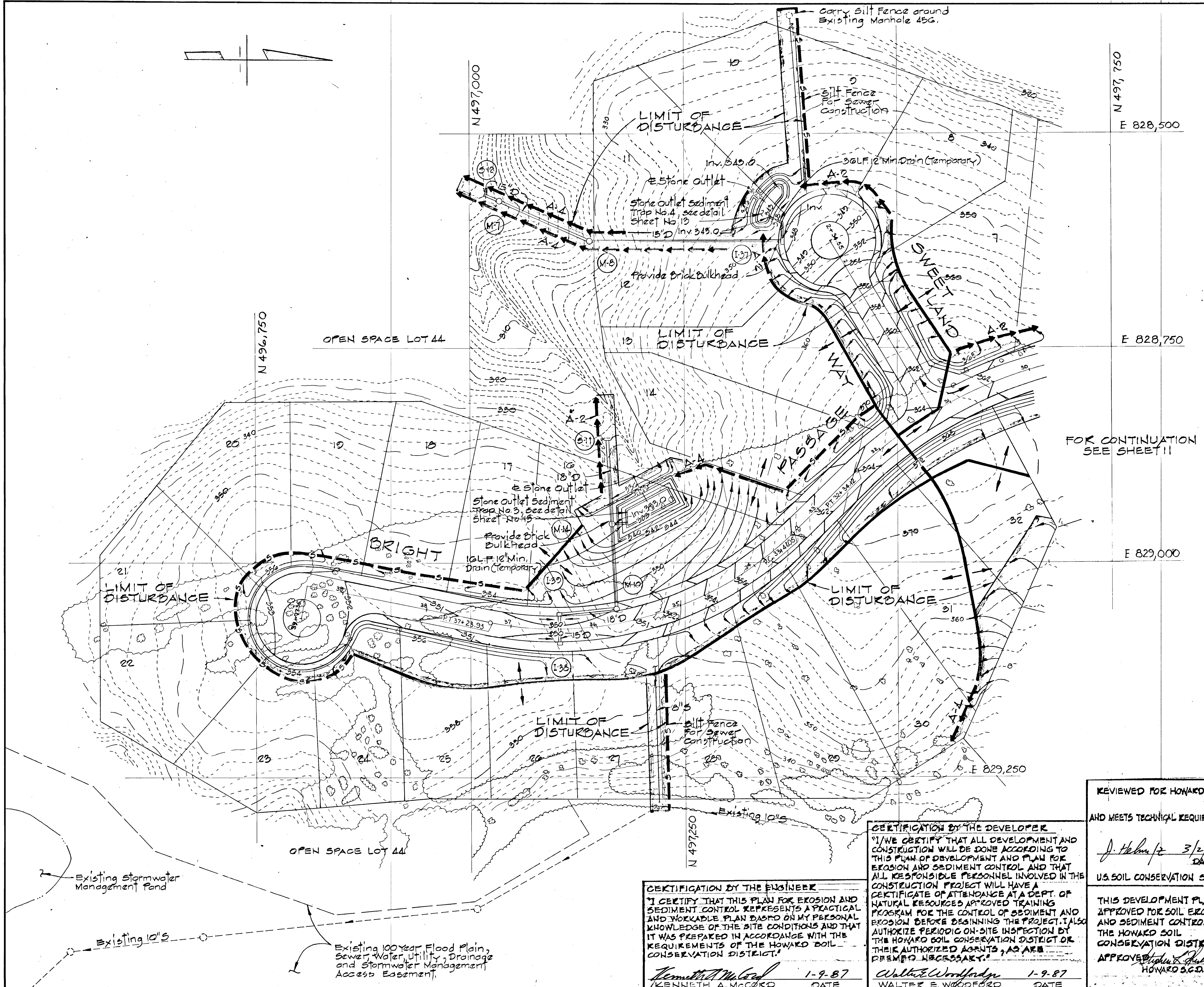
PROJECT TITLE
 SEDIMENT CONTROL PLAN

SCALE: 1" = 50' DATE:

WHITMAN, REQUARDT AND ASSOCIATES ENGINEERS
 BALTIMORE, MARYLAND 21218

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





LEGEND
 ——— DRAINAGE AREA LINE
 ——— EARTH DIKE
 —○— SILT FENCE

DESIGN DATA FOR SEDIMENT TRAP NO. 4
 DRAINAGE AREA (STRIPPING) - 0.9 ACRES
 DRAINAGE AREA (GRADING) - 0.8 ACRES
 DISTURBED AREA - 0.9 ACRES
 VOLUME REQUIRED - 0.9 x 67 = 60 C.Y.
 VOLUME AVAILABLE - 60 C.Y.
 TOP OF BERM ELEVATION - 347.0
 WEIR CREST ELEVATION - 346.0
 LENGTH OF WEIR - 5'
 STORAGE ELEVATION - 345.0
 BOTTOM ELEVATION - 343.0

DESIGN DATA FOR SEDIMENT TRAP NO. 3
 DRAINAGE AREA (STRIPPING) - 2.8 ACRES
 DRAINAGE AREA (GRADING) - 3.0 ACRES
 DISTURBED AREA - 3.0 ACRES
 VOLUME REQUIRED - 3.0 x 67 = 201 C.Y.
 VOLUME AVAILABLE - 200 C.Y.
 TOP OF BERM ELEVATION - 339.0
 WEIR CREST ELEVATION - 338.0
 LENGTH OF WEIR - 12'
 STORAGE ELEVATION - 337.0
 BOTTOM ELEVATION - 333.0

REV. DATE	REV. NO.	REVISION DESCRIPTION
2/12/87	1	As per Planning, DFW & S.C.S. Comments

COLUMBIA
 5TH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

OWNER AND DEVELOPER
 THE HOWARD RESEARCH
 AND DEVELOPMENT LAND COMPANY

PROJECT AREA
 VILLAGE OF HICKORY RIDGE
 SECTION 3 AREA 14

PROJECT TITLE
 SEDIMENT CONTROL PLAN

SCALE: 1" = 50' DATE:

WHITMAN, REQUARDT AND ASSOCIATES
 ENGINEERS
 BALTIMORE, MARYLAND 21218

APPROVED: *Kenneth A. McCord*
 KENNETH A. MCCORD
 Registered Engineer
 No. 1974

REVIEWED FOR HOWARD
 AND MEETS TECHNICAL REQUIREMENTS

J. Helmke 3/2/87
 DATE
 U.S. SOIL CONSERVATION SERVICE

THIS DEVELOPMENT PLAN IS
 APPROVED FOR SOIL EROSION
 AND SEDIMENT CONTROL BY
 THE HOWARD SOIL
 CONSERVATION DISTRICT.
 APPROVED: *Walter E. Woodford*
 HOWARD S.C.D. DATE

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 1-9-87
 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 1-9-87
 KENNETH A. MCCORD DATE

Existing 100 Year Flood Plain,
 Sewer, Water, Utility, Drainage
 and Stormwater Management
 Access Easement.

