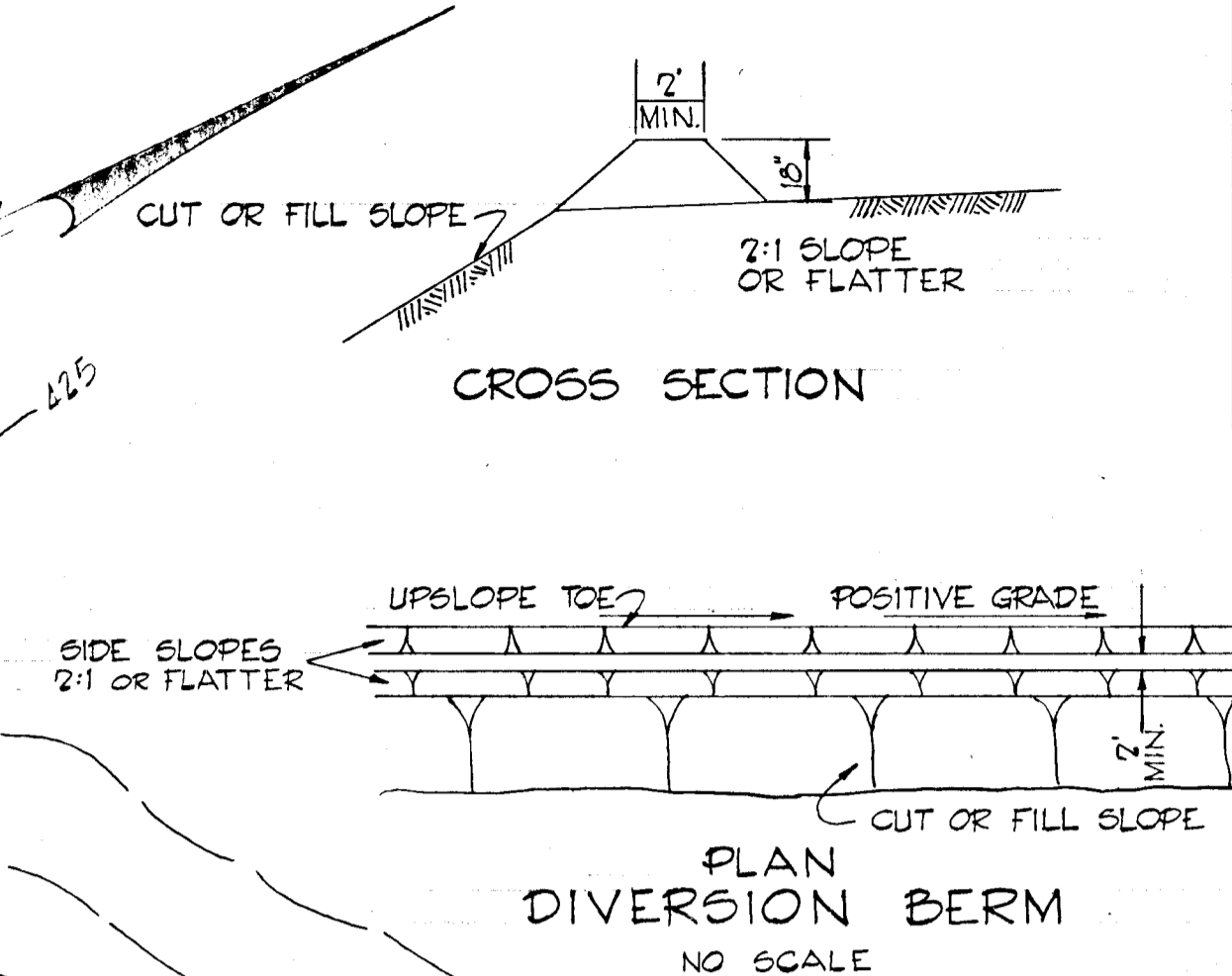


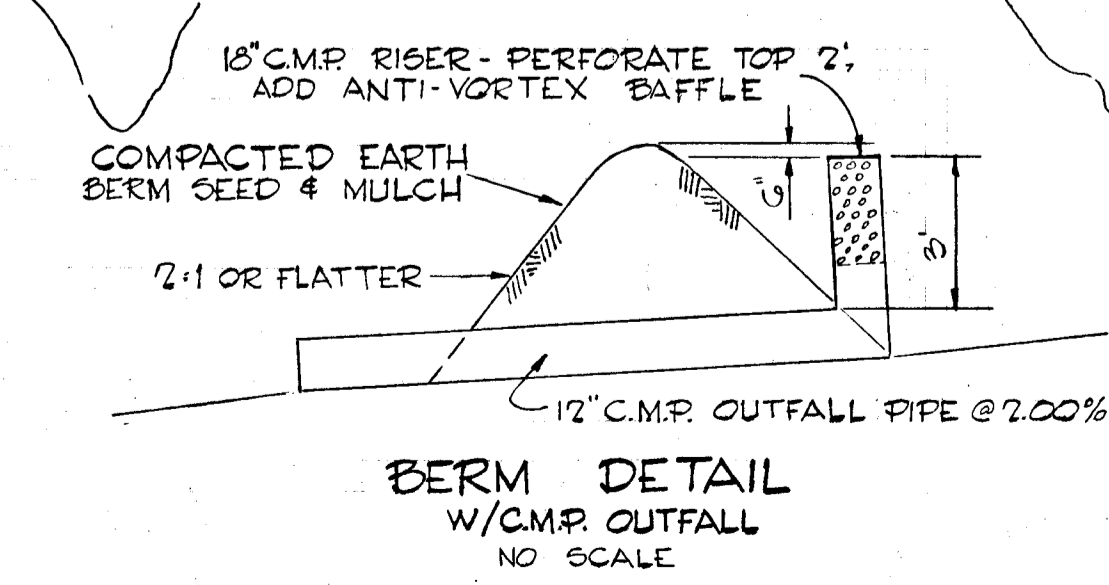
CERTIFICATION BY A PROFESSIONAL ENGINEER:
 I CERTIFY THAT THE PLAN OF DEVELOPMENT & THE PLAN OF
 SILT AND EROSION MEETS THE REQUIREMENTS, STANDARDS &
 SPECIFICATIONS OF THE HOWARD CO. SOIL CONSERVATION DIST.
 SIGNATURE: *Richard P. Browne* DATE: 1-27-70

CERTIFICATION BY THE DEVELOPER:
 I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION
 WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT
 & PLAN OF SILT SEDIMENT CONTROL.
 SIGNATURE: *Harold Palmer* DATE: 3-17-70

HOWARD SOIL CONSERVATION DISTRICT
 THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION
 & SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION
 DISTRICT.
 REVIEWED: *Elmer J. Law* DATE: 4/15/70
 DISTRICT CONSERVATIONIST
 APPROVED: *Ruth B. Campbell* DATE: 4/15/70
 HOWARD CO. SOIL CONSERVATIONIST



- GENERAL NOTES
1. ALL BERMS MUST BE MACHINE COMPACTED.
 2. ALL DIVERSION BERMS MUST HAVE POSITIVE GRADES DRAINING TO A STABILIZED OUTLET.
 3. DIVERTED RUNOFF WILL OUTLET ONTO A STABILIZED UNDISTURBED AREA, A PREPARED LEVEL SPREADER OR INTO A GRADE STABILIZATION STRUCTURE.
 4. PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED.

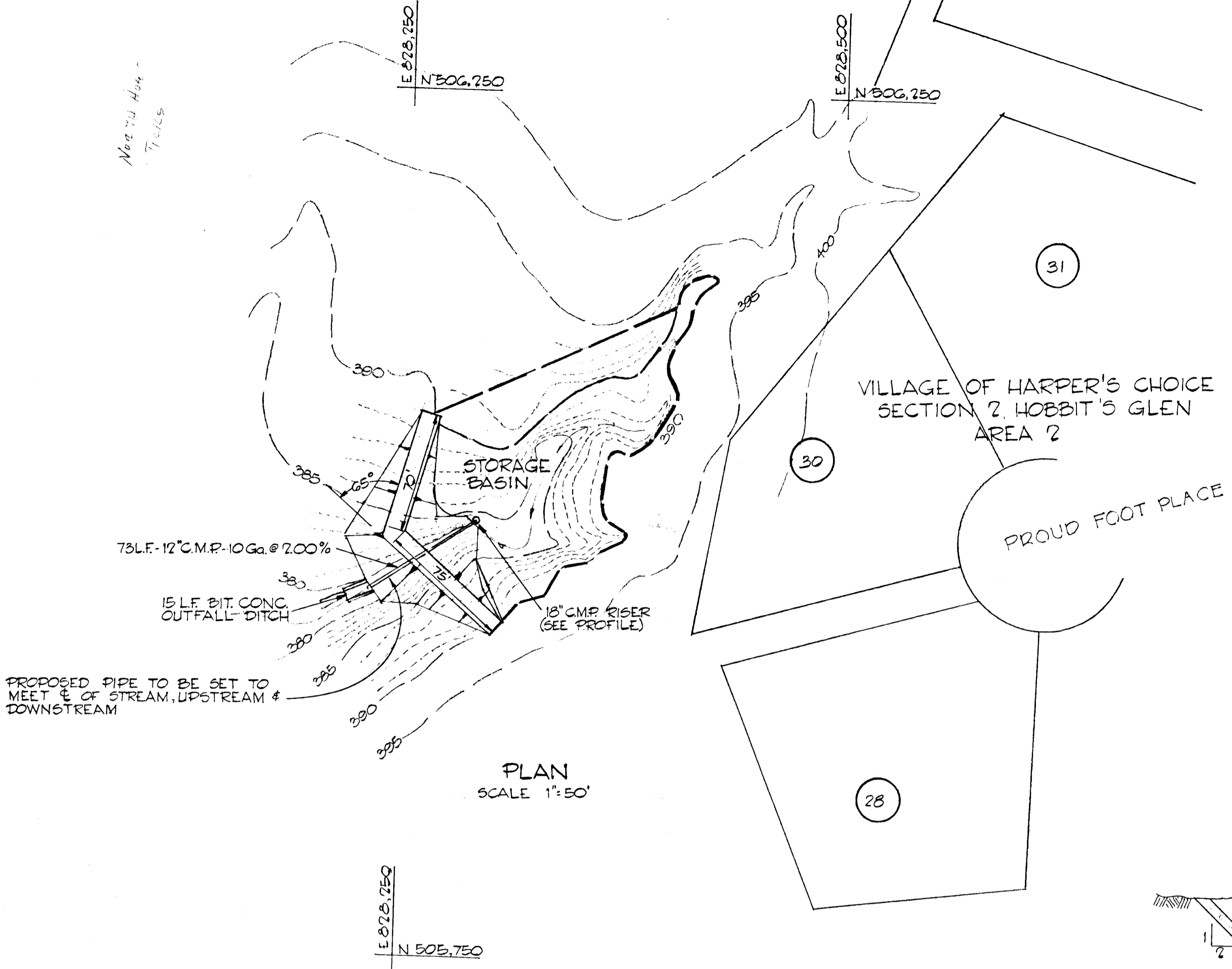
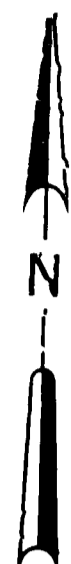


NOTE
 AREAS TO BE SEED WITHIN ROAD R/W'S SHALL
 USE A SEED MIXTURE AS FOLLOWS:
 ANNUAL RYE GRASS 20%
 KENTUCKY BLUE GRASS 20%
 KENTUCKY 31 FESCUE 60%
 TO BE SOWN AT THE RATE OF 200 lbs./ACRE WITH
 A MECHANICAL SPREADER. RAKE A MINIMUM OF
 TWO PASSES WITH A YORK RAKE. COVER AND
 COMPACT WITH A CULTIPAKER; SURFACE PREPAR-
 ATION TO INCLUDE GRADE LIMESTONE OVER
 TOP SOIL SURFACE AREA AT THE RATE OF 1/2 TON
 PER ACRE (20 lbs./1,000 sq. ft.), COMMERCIAL FERTILIZER
 2-10-10 AT THE RATE 1/4 TON/ACRE (25 lbs./1,000 sq. ft.)
 AND SUPER PHOSPHATE AT THE RATE OF
 200 lbs./ACRE (15 lbs./1,000 sq. ft.)

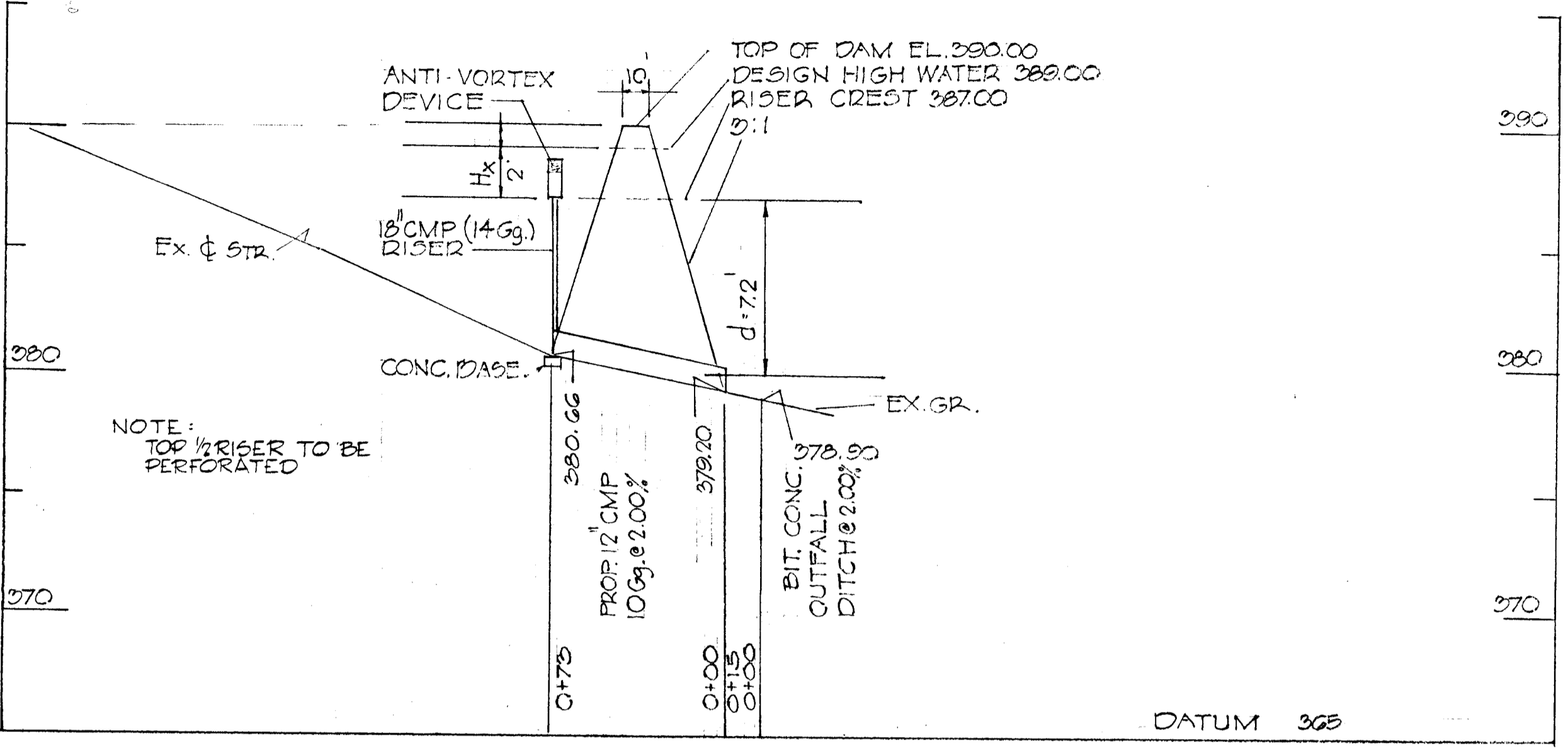
Richard P. Browne
 RICHARD P. BROWNE
 PE # 12628

RICHARD P. BROWNE ASSOCIATES CONSULTING ENGINEERS - PLANNERS COLUMBIA, MARYLAND		
Rev Date	Rev No	Revision Description
COLUMBIA		
5th ELECTION DISTRICT HOWARD COUNTY, MARYLAND		
OWNER AND DEVELOPER HOWARD RESEARCH AND DEVELOPMENT CORP. THE VILLAGE OF CROSS KEY, BALTIMORE, MARYLAND 21210		
PROJECT AREA		
SECTION 2		AREA 2
PROJECT TITLE		
SEDIMENTATION & EROSION CONTROL		
Des By	T.C.	Scale 1"=100'
Drn By	J.B.-F.T.	Date JAN. 27, 1970
Chk By	T.C.	Approved
Dwg No	10-2	C.C.F. No

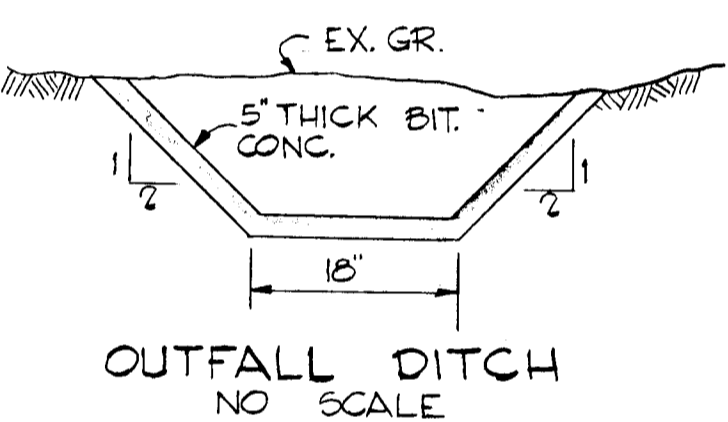
11600



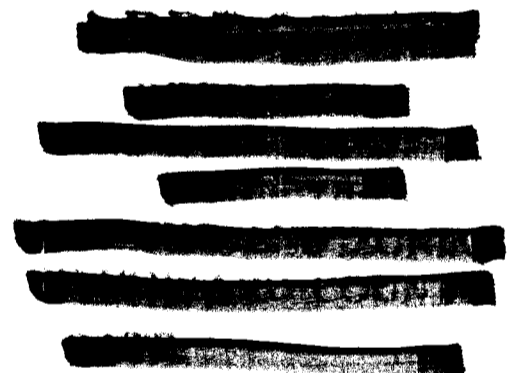
PLAN
SCALE 1"=50'



PIPE SPILLWAY PROFILE
SCALE: HOR. 1"=50'
VERT. 1"=5'

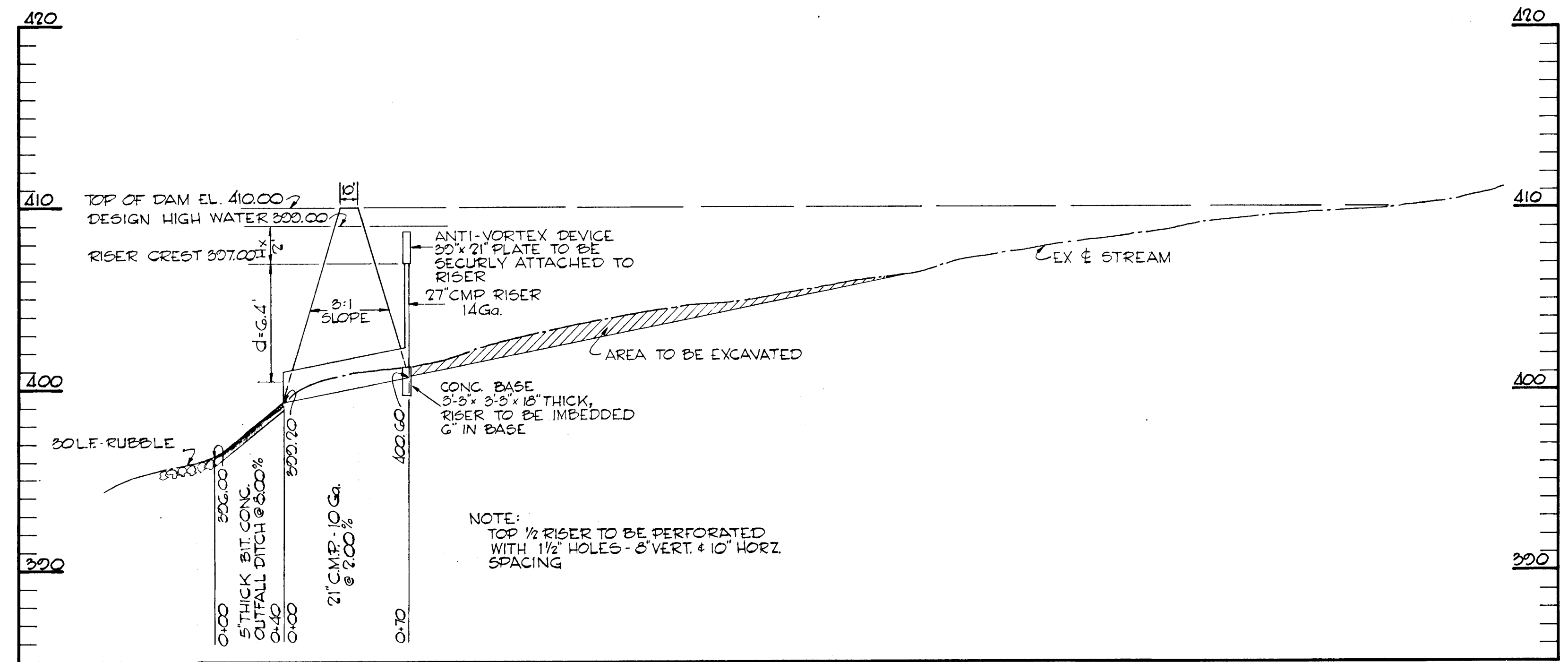


OUTFALL DITCH
NO SCALE

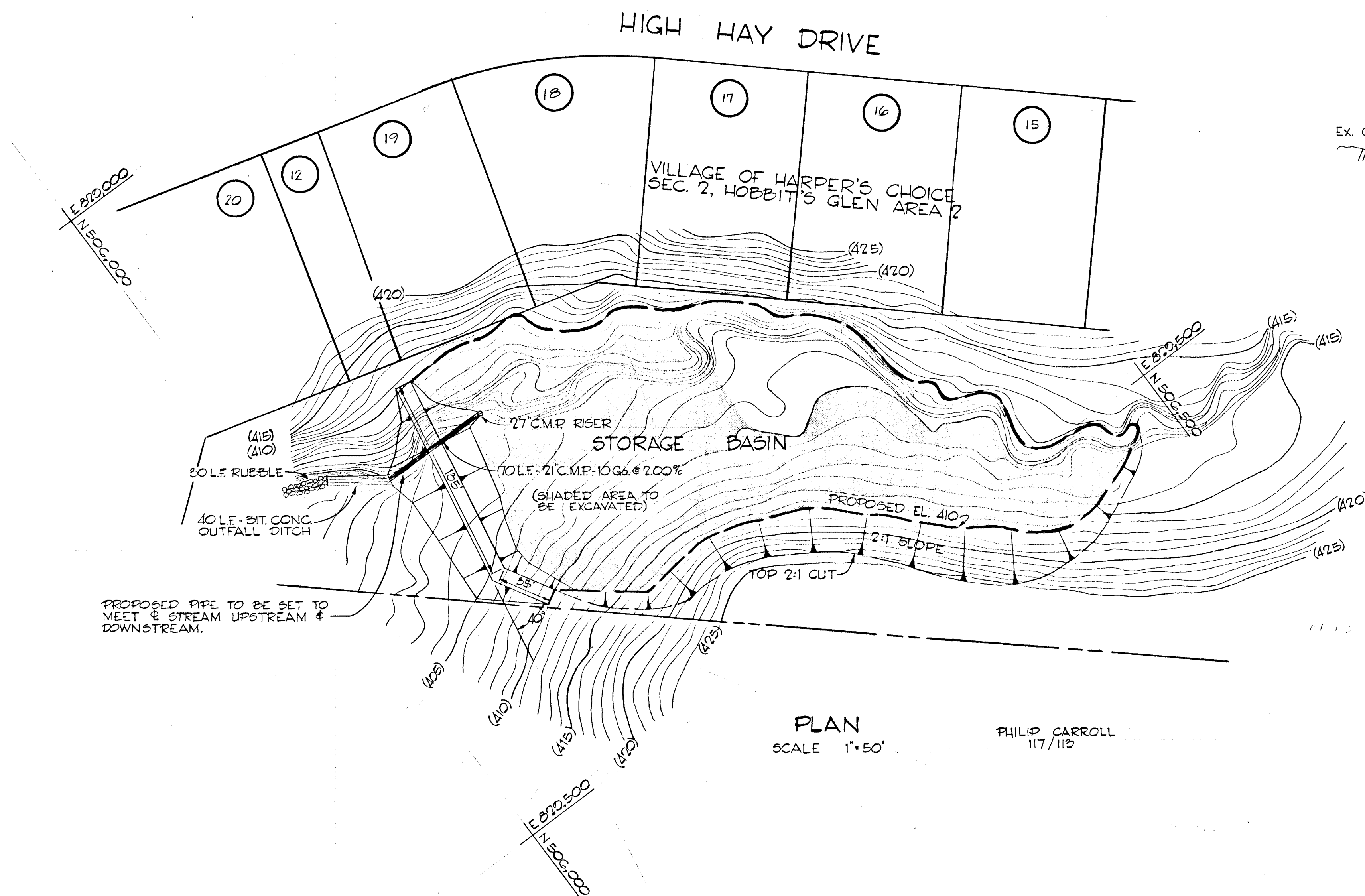
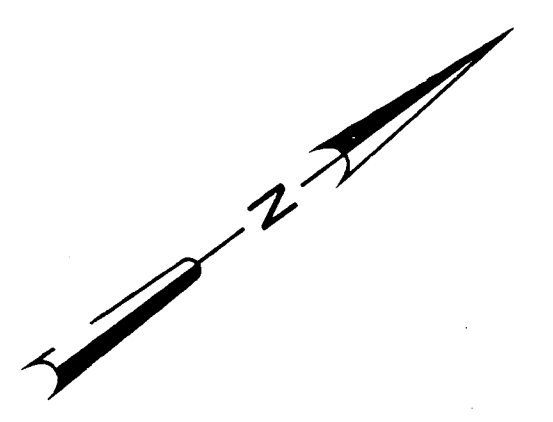


Richard P. Browne
RICHARD P. BROWNE PE #LS 5128

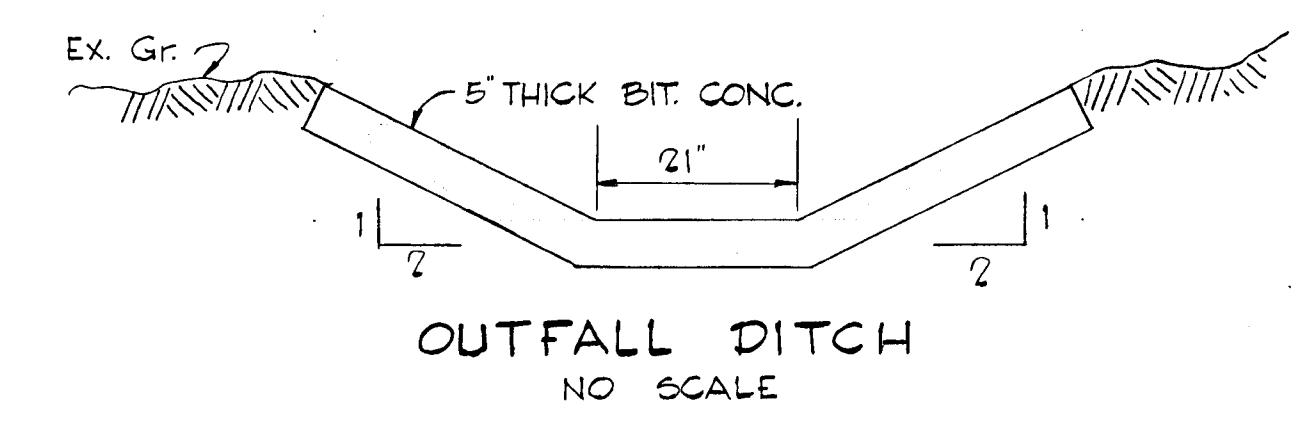
RICHARD P. BROWNE ASSOCIATES CONSULTING ENGINEERS - PLANNERS COLUMBIA, MARYLAND			
Rev Date	Rev No	Revision Description	
COLUMBIA MARYLAND			
OWNER AND DEVELOPER HOWARD RESEARCH AND DEVELOPMENT CORP. THE VILLAGE OF CROSS KEYS - BALTIMORE, MARYLAND 21210			
PROJECT AREA VILLAGE OF HARPER'S CHOICE SECTION 2 - AREA 2			
PROJECT TITLE SEDIMENTATION BASIN 1			
Des By	T.S.	Scale AS SHOWN	Dwg No 12413
Drn By	T.S. - FT.	Date JAN 27, 1970	C.C.F. No
Chk By	T.S.	Approved	



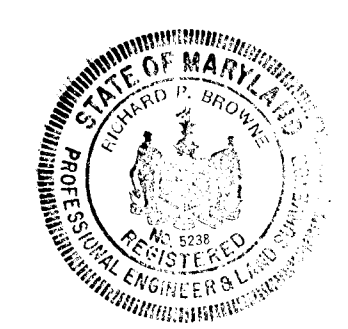
PROFILE
SCALE VERT. 1"=5'
HORIZ. 1"=50'



PLAN
SCALE 1"=50' PHILIP CARROLL 117/119



OUTFALL DITCH
NO SCALE



Richard P. Browne
RICHARD P. BROWNE P.E. No. 12428

RICHARD P. BROWNE ASSOCIATES CONSULTING ENGINEERS - PLANNERS COLUMBIA, MARYLAND		
Rev Date	Rev No	Revision Description
COLUMBIA MARYLAND		
OWNER AND DEVELOPER HOWARD RESEARCH AND DEVELOPMENT CORP. THE VILLAGE OF CROSS KEYS - BALTIMORE, MARYLAND 21210		
PROJECT AREA VILLAGE OF HARPER'S CHOICE SECTION 2 - AREA 2		
PROJECT TITLE SEDIMENTATION BASIN II		
Des By	T.S.	Scale AS SHOWN Dwg No 2 of 2
Drn By	F.T.	Date JAN. 27, 1970 C.C.F. No
Chk By	T.S.	Approved

REVISIONS	
1. REVISE ROAD WIDTH &	
TYPICAL SECTION - HARPER'S	
FARM ROAD - JAN. 12, 1969 (F.T.)	

COLUMBIA

HOWARD COUNTY, MARYLAND

5th ELECTION DISTRICT

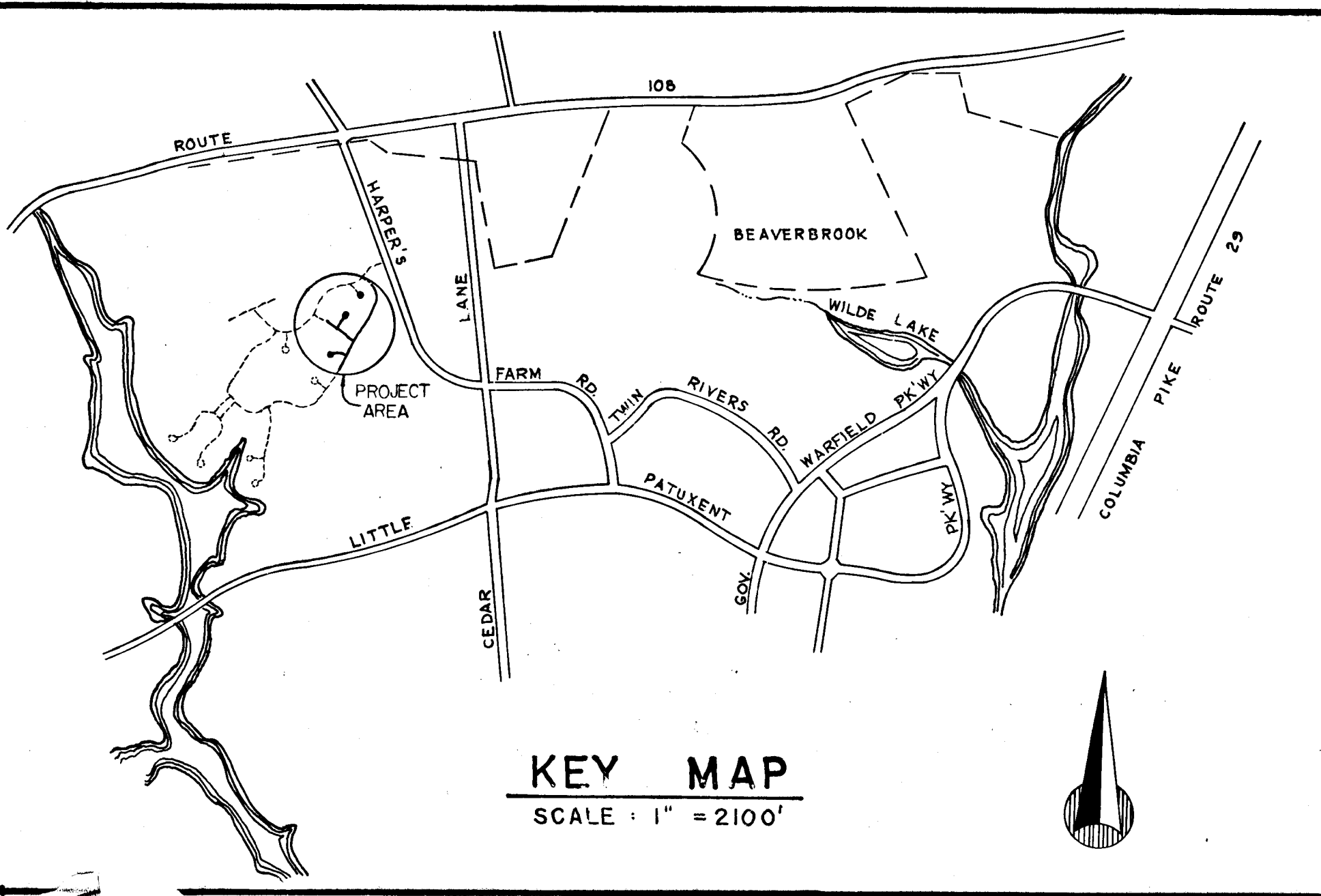
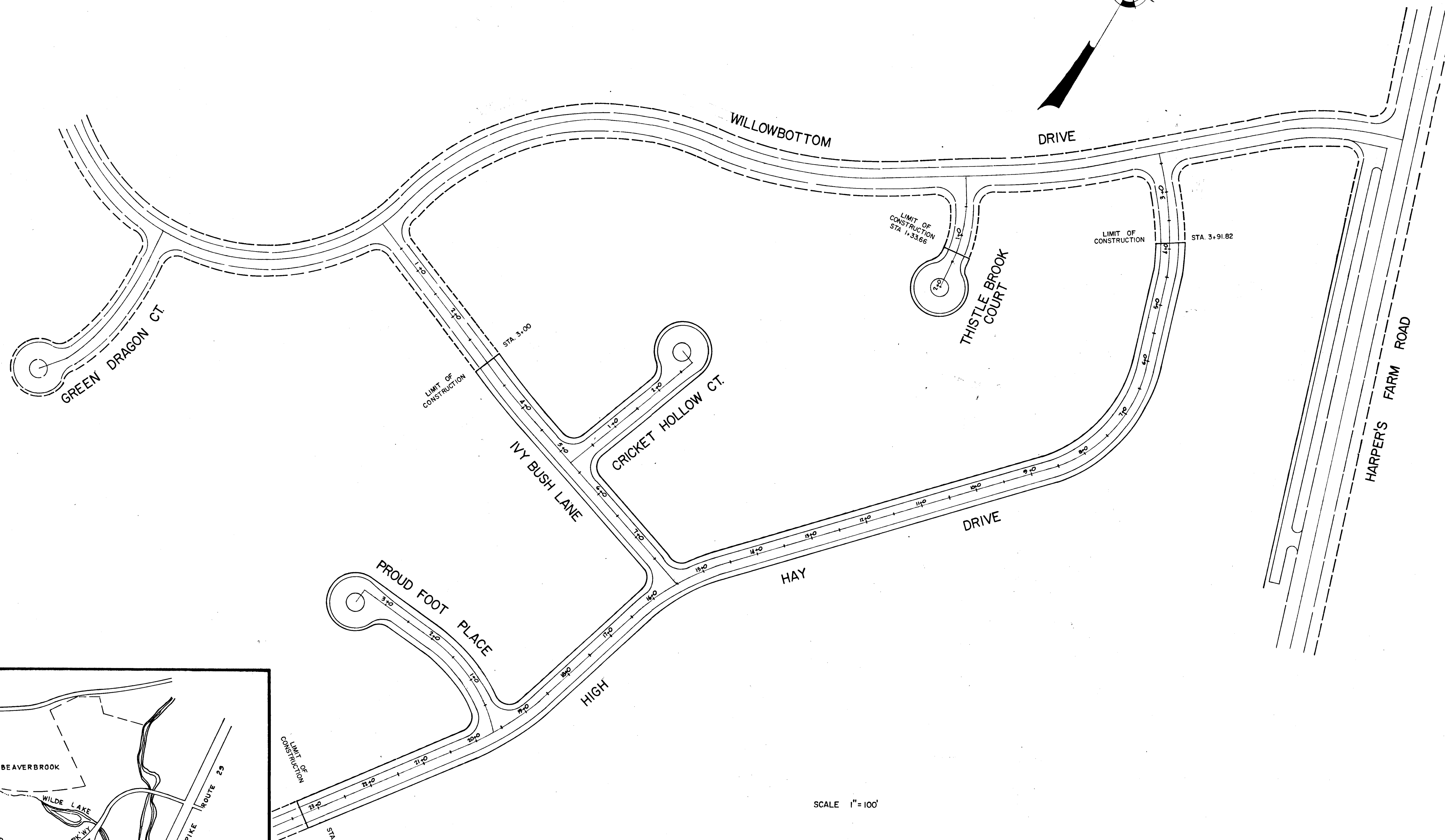
VILLAGE OF HARPER'S CHOICE SEC. 2

AREA 2

SHEET INDEX	
SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	HIGH HAY DRIVE
3	HIGH HAY DRIVE
4	IVY BUSH LANE
5	CRICKET HOLLOW COURT
6	PROUD FOOT PLACE
7	THISTLEBROOK COURT
8	HARPER'S FARM ROAD
9	DETAILS
10	DRAINAGE AREA MAP
11	DRAINAGE AREA MAP
12	DRAINAGE AREA MAP
13	FLOOD PLAIN SECTIONS
14	FLOOD PLAIN SECTIONS

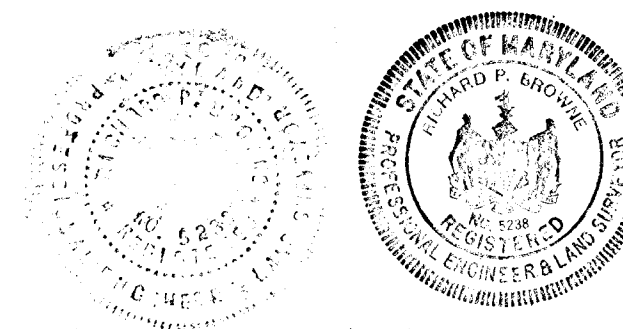
NOTES:

1. ALL CONSTRUCTION TO BE IN ACCORDANCE WITH HOWARD COUNTY ROAD CONSTRUCTION CODE & STANDARD SPECIFICATIONS AS REVISED AUGUST 1968
2. ALL ROADS ARE DESIGNED FOR 25 MPH TRAFFIC SPEED IN ACCORDANCE WITH A.A.S.H.O.
3. CONTRACTOR TO NOTIFY ALL UTILITY COMPANIES 48 HOURS PRIOR TO STARTING CONSTRUCTION.



OWNER & DEVELOPER
THE HOWARD RESEARCH AND DEVELOPMENT CORP.
THE VILLAGE OF CROSS KEYS
BALTIMORE, MARYLAND

SCALE 1" = 100'



CONSULTING ENGINEERS - PLANNERS
 COLUMBIA, MARYLAND
 Richard P. Browne
 # 5238

DEPARTMENT OF PUBLIC WORKS
 4-10-70
 CHIEF, BUREAU OF HIGHWAYS
 OFFICE OF PLANNING AND ZONING
 4-10-70
 CHIEF ENGINEER, DIVISION OF LAND DEVELOPMENT
 DATE

1860 F-70-65

NO.	TYPE	LOCATION	INV. IN	INV. OUT	I.C.P. ELEV.	REMARKS
M-3	STD. MANHOLE	± STA 10+23.61 - 10' RT ±	439.05	439.00		Ho. Co. STD. Dwg. D-103 Pg. 158
I-3	COMB 'S' INLET	± STA 8+54.55 - RT ±	427.46	427.21	433.36	Ho. Co. STD. Dwg. D-22 Pg. 154
I-3	COMB 'S' INLET	± STA 8+54.55 - LT ±	427.71	426.75	433.36	SEE DETAIL SHEET
S-3	STD 'C' ENDWALL	± STA 8+57 - 37' LT ±		422.74		Ho. Co. STD. Dwg. D-52 Pg. 107

NOTE:
 CONTRACTOR TO MEET EXISTING
 PAVING & CURBS UNDER DIRECTION
 OF THE ENGINEER IN THE FIELD

Richard P. Browne
 RICHARD P. BROWNE
 P.E. # L.S. # 57238

RICHARD P. BROWNE ASSOCIATED
 CONSULTING ENGINEERS - PLANNERS
 COLUMBIA, MARYLAND
 3-13-70 | SHOW STORM DR. IN ESM'T.

COLUMBIA
 5th ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 HOWARD RESEARCH AND DEVELOPMENT CORP.
 THE VILLAGE OF CROSS KEYS - BALTIMORE, MARYLAND 21210

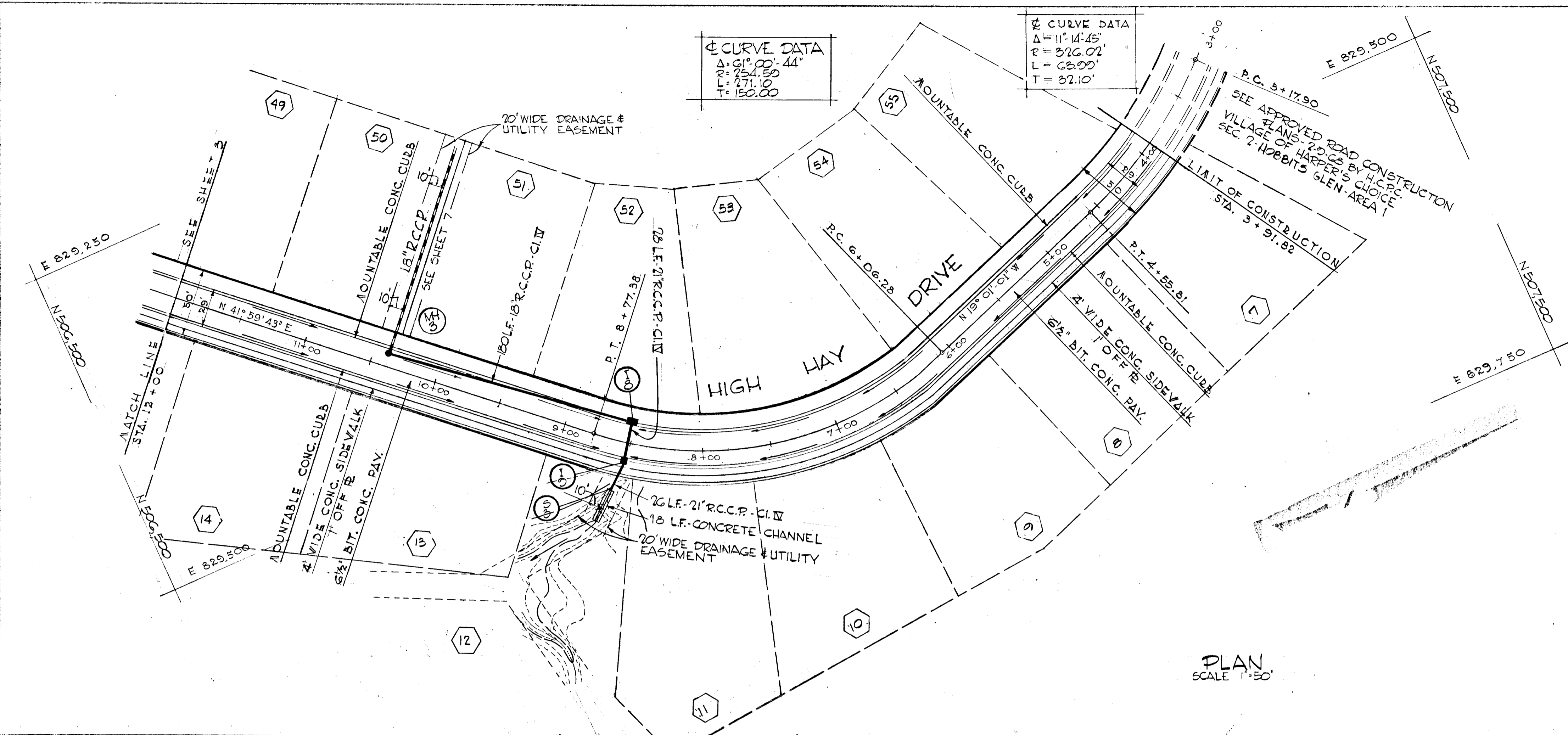
VILLAGE OF HARPER'S CHOICE
 SECTION 2 AREA 2

PLAN & PROFILE
 HIGH HAY DRIVE

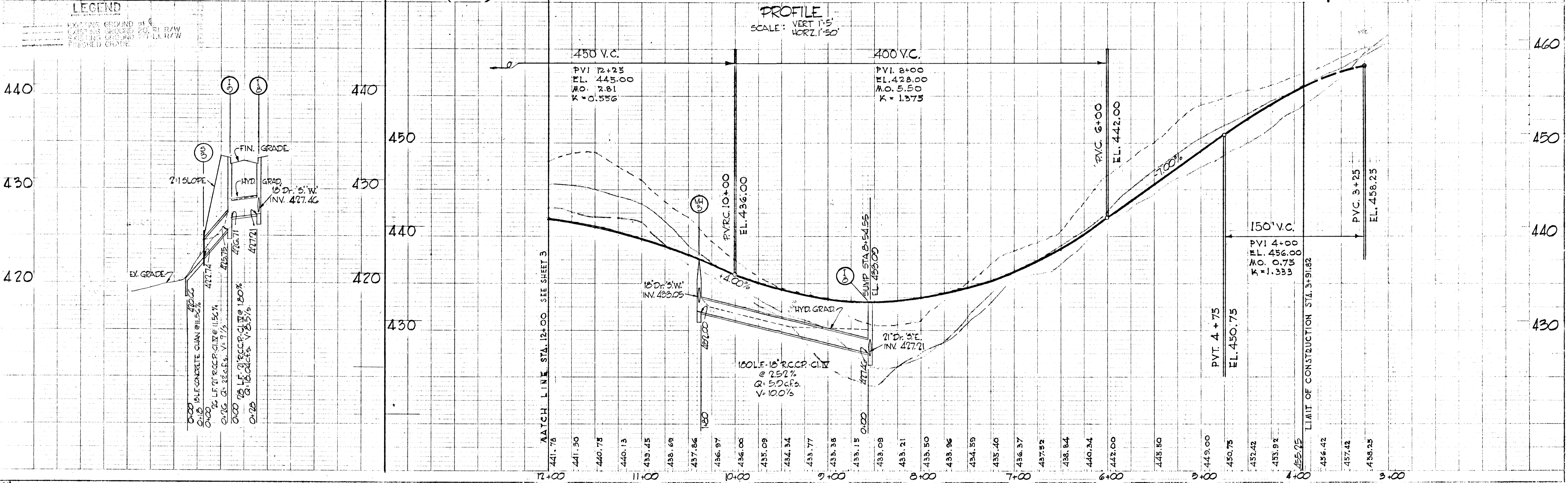
Rev. Date Rev. No. Revision Description
 Des. By: F.T. Scale: AS SHOWN Dwg. No: 2 of 14
 Drawn By: K.A.H. Date: 5-23-60 C.C.F. No.
 Checked By: P.A.P. Approved

APPROVED
 DIVISION OF
 LAND DEVELOPMENT
 OFFICE OF
 PLANNING AND ZONING
 OF HOWARD COUNTY
 DATE: APR 10 1970

J.H.W.



PLAN
 SCALE 1"=50'



PROFILE
 SCALE: VERT. 1"=5'
 HORZ. 1"=50'

PROFILE

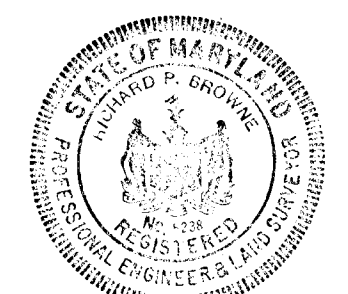
DATE	
NO.	
REVISED BY	
NOTE BOOK	
NO.	
REVISION	
NO.	

LEGEND

- EXISTING GROUND
- FINISHED GRADE
- PROPOSED GRADE

STORM DRAINAGE STRUCTURE SCHEDULE

NO.	TYPE	LOCATION	INV. IN	INV. OUT	I.C. ELEV.	REMARKS
I-2	COMB. 5' INLET (DOUBLE GRATE)	STA 18+22.74 RT. E	433.80	433.50		Ho. Co. Std. Dwg. D-99 Pg. 15.4
I-3	COMB. 5' INLET (SINGLE GRATE)	STA 19+45.70 LT. E	433.70	433.20		SEE DETAIL SHEET
M-4	STD. MANHOLE	STA 13+00.86 17' LT. E	432.74	433.85	15'-437.00 15'-437.00	Ho. Co. Std. Dwg. D-102 Pg. 15.2 Ho. Co. Std. Dwg. D-57 Pg. 10.7
3-2	STD. C' ENDWALL	SEE PLAN		414.04		



Richard P. Browne
RICHARD P. BROWNE PE415-5238

RICHARD P. BROWNE ASSOCIATES
CONSULTING ENGINEERS - PLANNERS
COLUMBIA, MARYLAND

5-12-70 1 SHOW STORM DRAIN & OF EGMT.

Rev. Date Rev. No. Revision Description

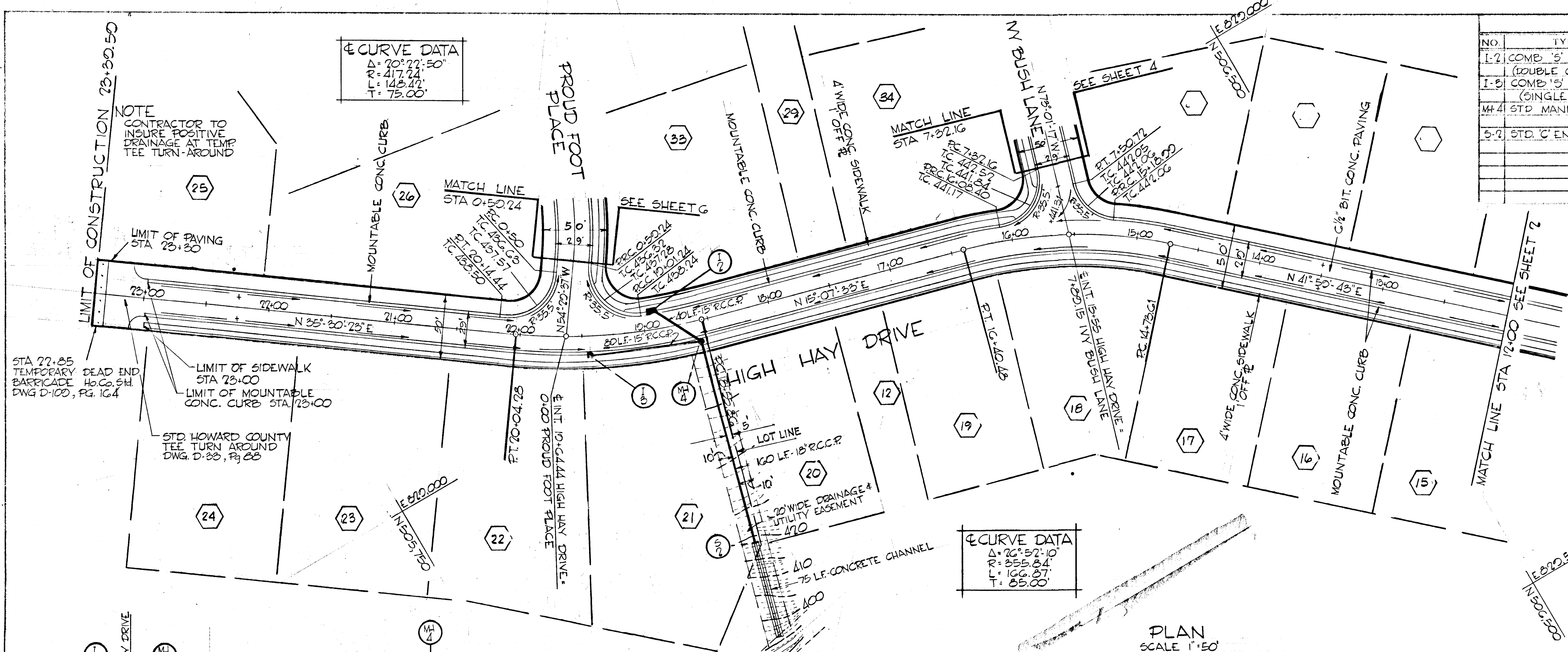
COLUMBIA
5th ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
OWNER AND DEVELOPER
HOWARD RESEARCH AND DEVELOPMENT CORP.
THE VILLAGE OF CROSS KEYS - BALTIMORE, MARYLAND 21210

PROJECT AREA
VILLAGE OF HARPER'S CHOICE
SECTION 2 AREA 2

PROJECT TITLE
PLAN & PROFILE
HIGH HAY DRIVE

Prep. By: F.T. Scale: AS SHOWN Dwg. No. 3 of 14
 Des. By: F.T. Date: 5-28-70 C.C.F. No.
 App. By: P.A.P. Approved

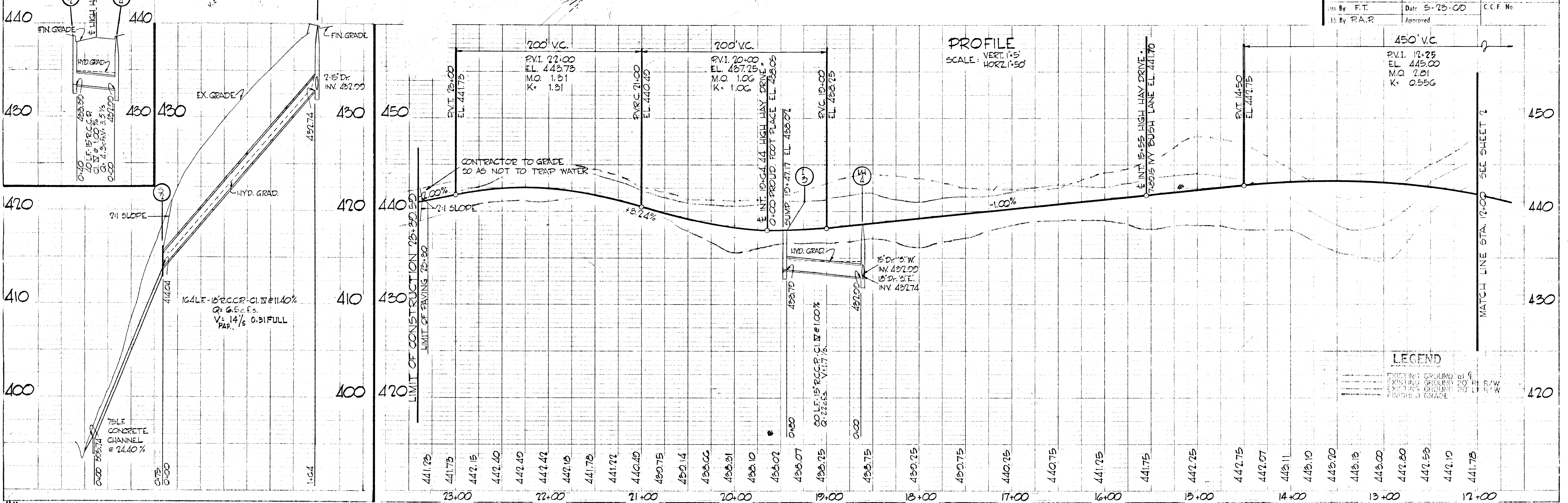
APPROVED
DIVISION OF
LAND DEVELOPMENT
OFFICE OF
PLANNING AND ZONING
OF HOWARD COUNTY
DATE: APR 10 1970
Jrey



CURVE DATA

Δ	20° 57' 10"
R	355.84'
L	166.07'
T	65.00'

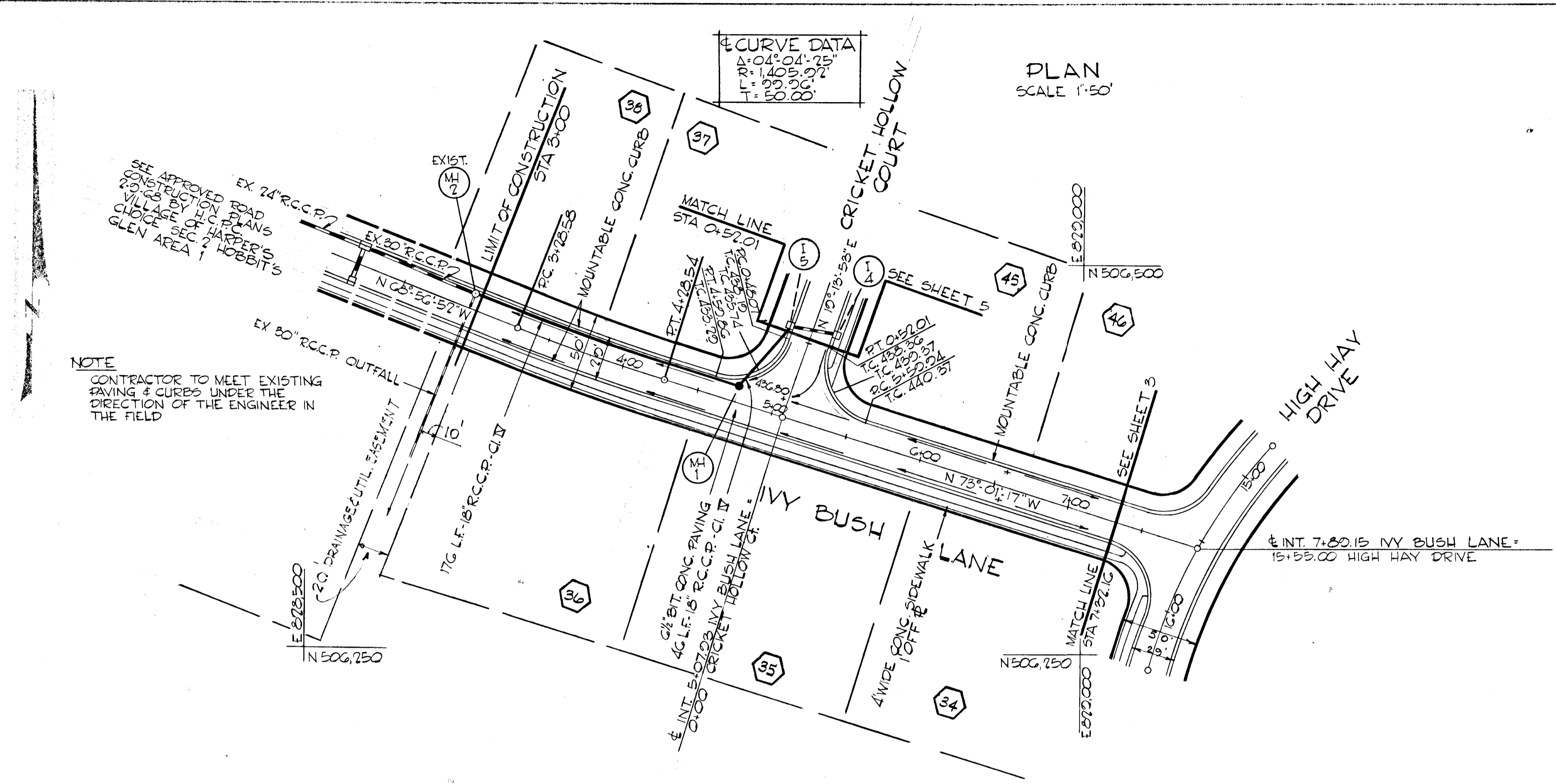
PLAN SCALE 1"=50'



LEGEND

- EXISTING GROUND
- EXISTING GROUND 20 FT. R/W
- EXISTING GROUND 50 FT. R/W
- FINISHED GRADE

STORM DRAINAGE STRUCTURE SCHEDULE						
NO.	TYPE	LOCATION	INV. IN	INV. OUT	I.C.P. ELEV.	REMARKS
I-5						SEE SHEET 5
M-1	STD. MANHOLE	STATION 4+75-10' LT. E	420.43	420.23	424.00	Ho. Co. STD. Dwg. D102 Pg. 153
M-2	EXISTING MANHOLE	SEE PLAN	417.40	416.40		EXISTING



NOTE
CONTRACTOR TO MEET EXISTING PAVING & CURBS UNDER THE DIRECTION OF THE ENGINEER IN THE FIELD

APPROVED
DIVISION OF
LAND DEVELOPMENT
OFFICE OF
PLANNING AND ZONING
OF HOWARD COUNTY
DATE: APR 10 1978

J.P.F.

STATE OF MARYLAND
REGISTERED PROFESSIONAL ENGINEER
RICHARD P. BROWNE
PE #LS 5238

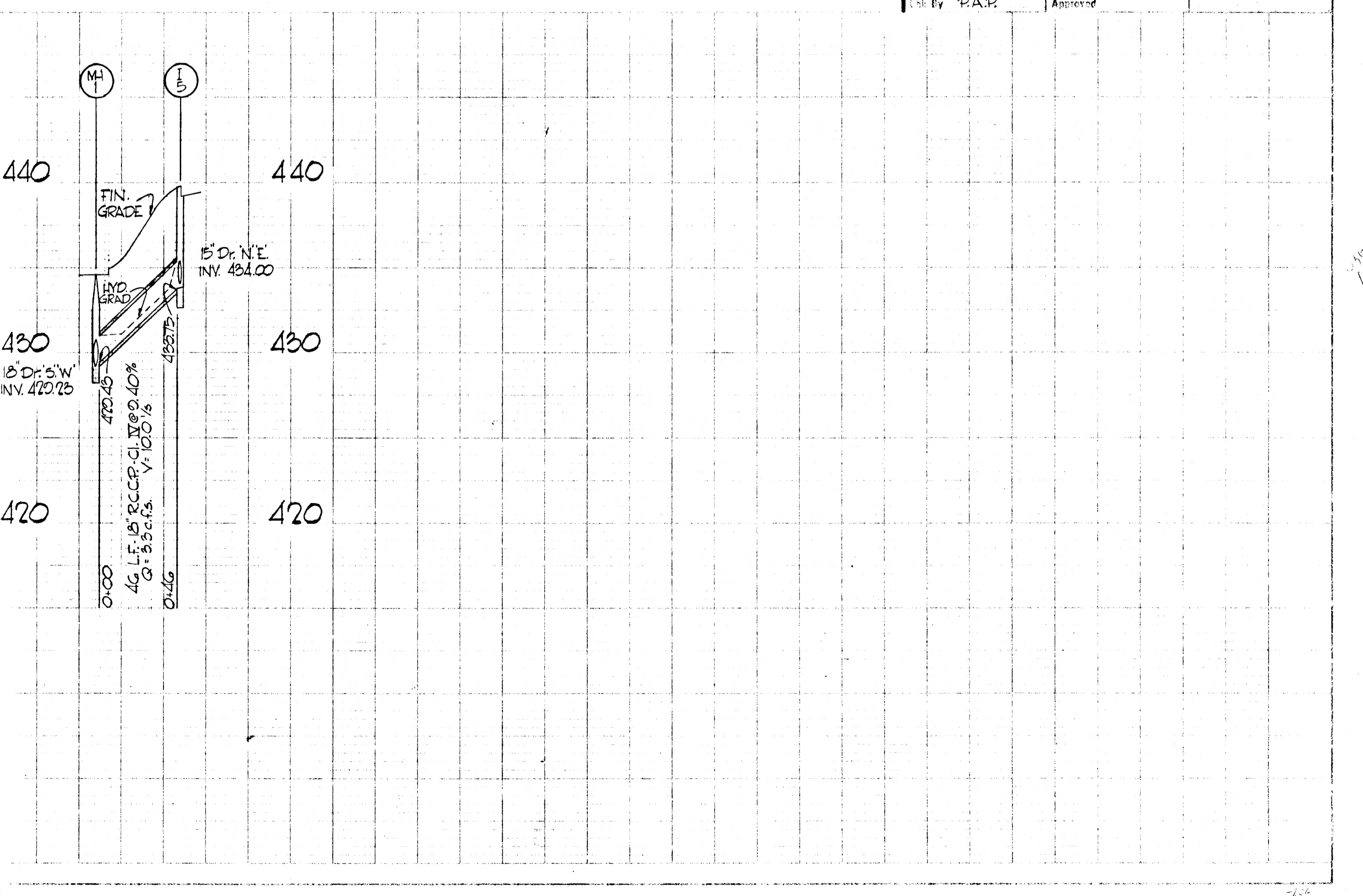
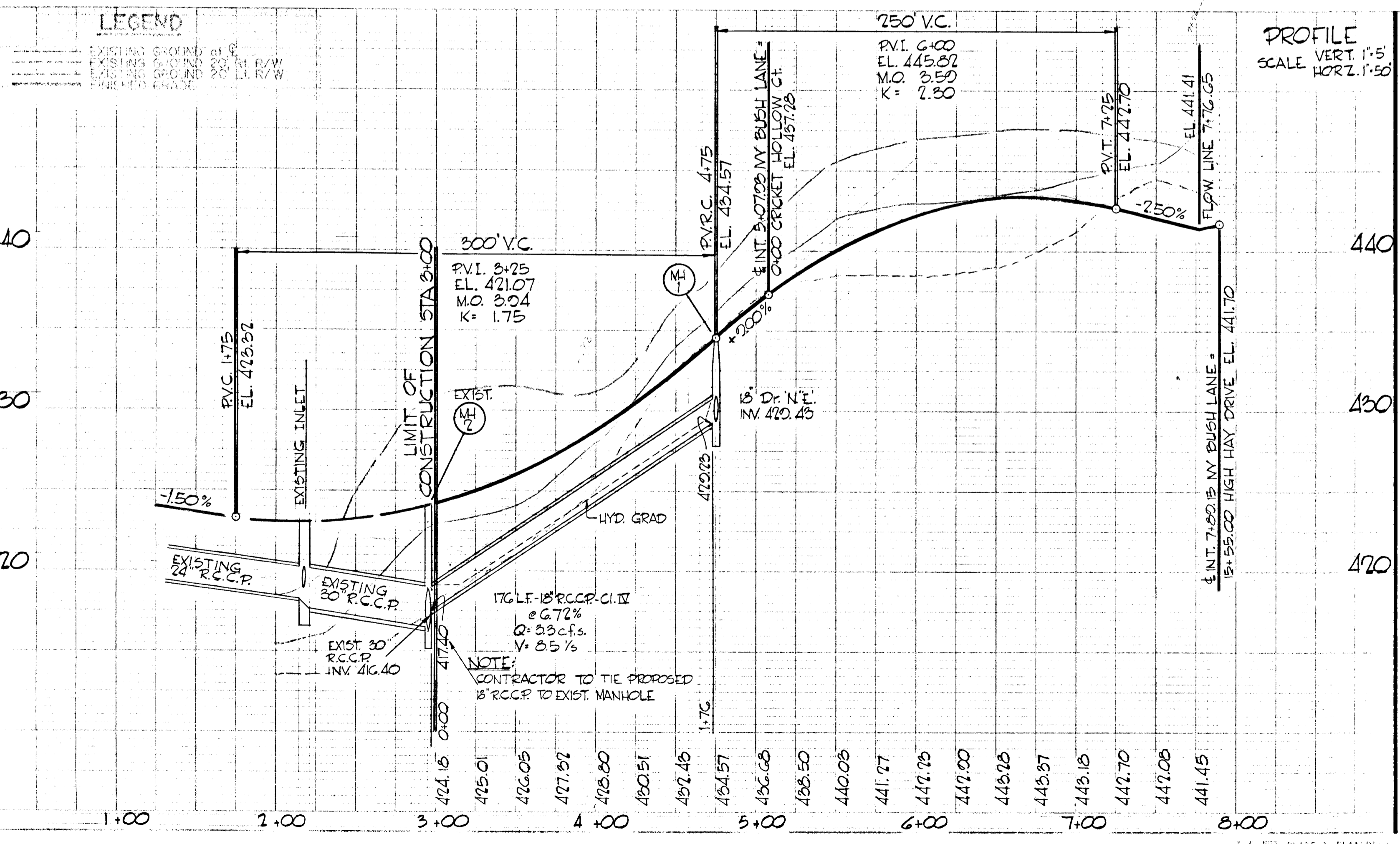
RICHARD P. BROWNE ASSOCIATES
CONSULTING ENGINEERS - PLANNERS
COLUMBIA, MARYLAND

Rev. Date	Rev. No.	Revision Description

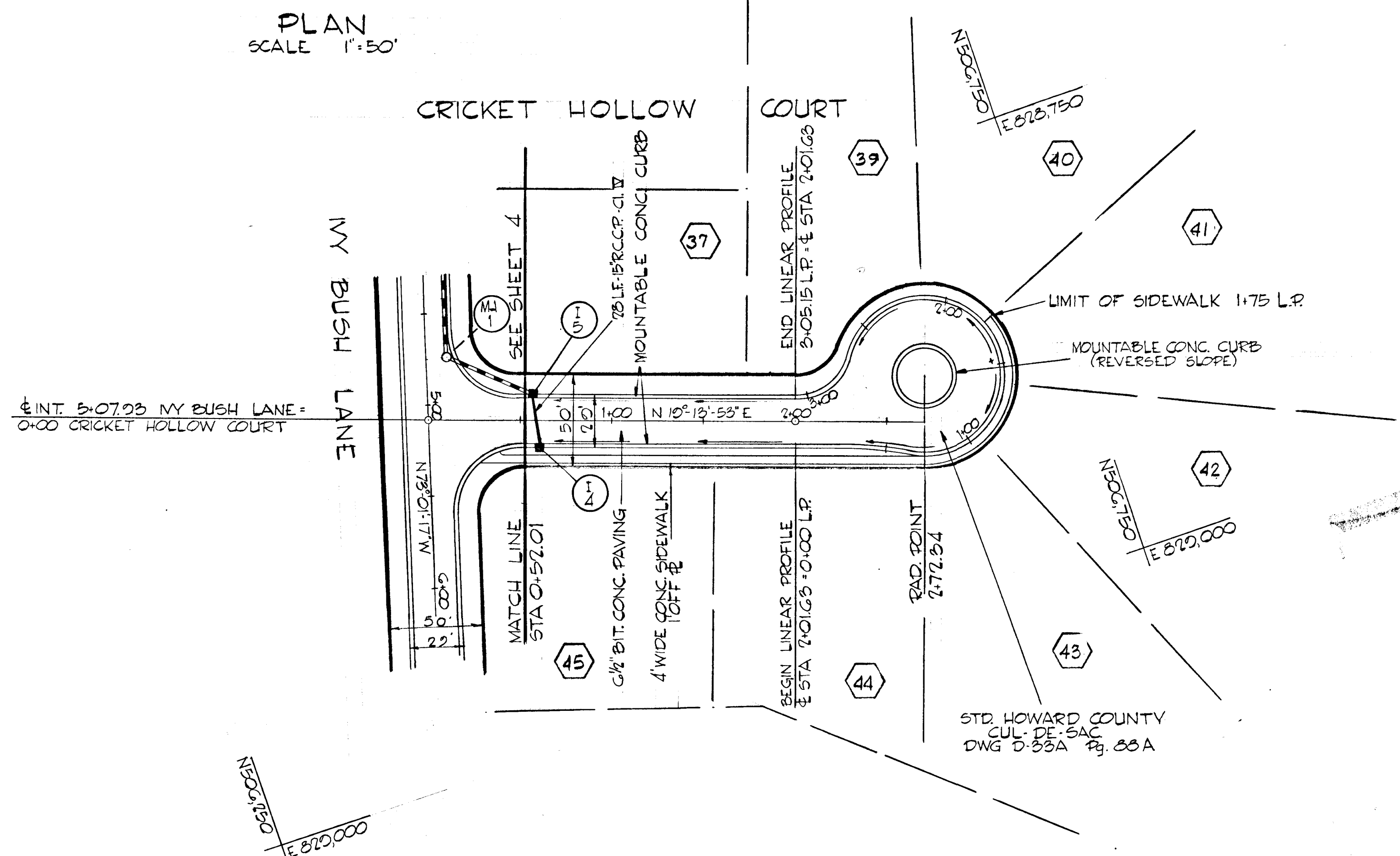
COLUMBIA
5th ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
HOWARD RESEARCH AND DEVELOPMENT CORP.
THE VILLAGE OF HARPER'S CHOICE - BALTIMORE, MARYLAND 21210

PROJECT AREA
VILLAGE OF HARPER'S CHOICE
SECTION 2 AREA 2
PROJECT TITLE
PLAN & PROFILE
IVY BUSH LANE

Des. By	F.T.	Scale	AS SHOWN	Dwg. No.	4 of 14
Rev. By	F.T.	Date	5-23-68	C.C.F. No.	
App. By	P.A.R.	Approved			



NOTE BOOK CHECKED
DATE: 5/1/70
BY: J. H. [unclear]
NO. [unclear]



STORM DRAINAGE STRUCTURE SCHEDULE						
NO.	TYPE	LOCATION	INV. IN	INV. OUT	T.C.P. ELEV.	REMARKS
I-4	COMB. 5' INLET SINGLE GRATE	± STA. 0+50.55 RT. ± ± INLET	434.78	438.08	438.08	SEE DETAIL SHEET
I-5	COMB. 5' INLET SINGLE GRATE	± STA. 0+55.61 LT. ± ± INLET	434.00	438.75	438.70	SEE DETAIL SHEET

STATE OF MARYLAND
ENGINEERS
RICHARD F. BROWNE
PE. # L.S. 15728

APPROVED
DIVISION OF
LAND DEVELOPMENT
OFFICE OF
PLANNING AND ZONING
OF HOWARD COUNTY
DATE: APR 10 1970

J.H.C.

RICHARD F. BROWNE ASSOCIATES
CONSULTING ENGINEERS - PLANNERS
COLUMBIA, MARYLAND

Rev. Date: Rev. No: Revision Description:

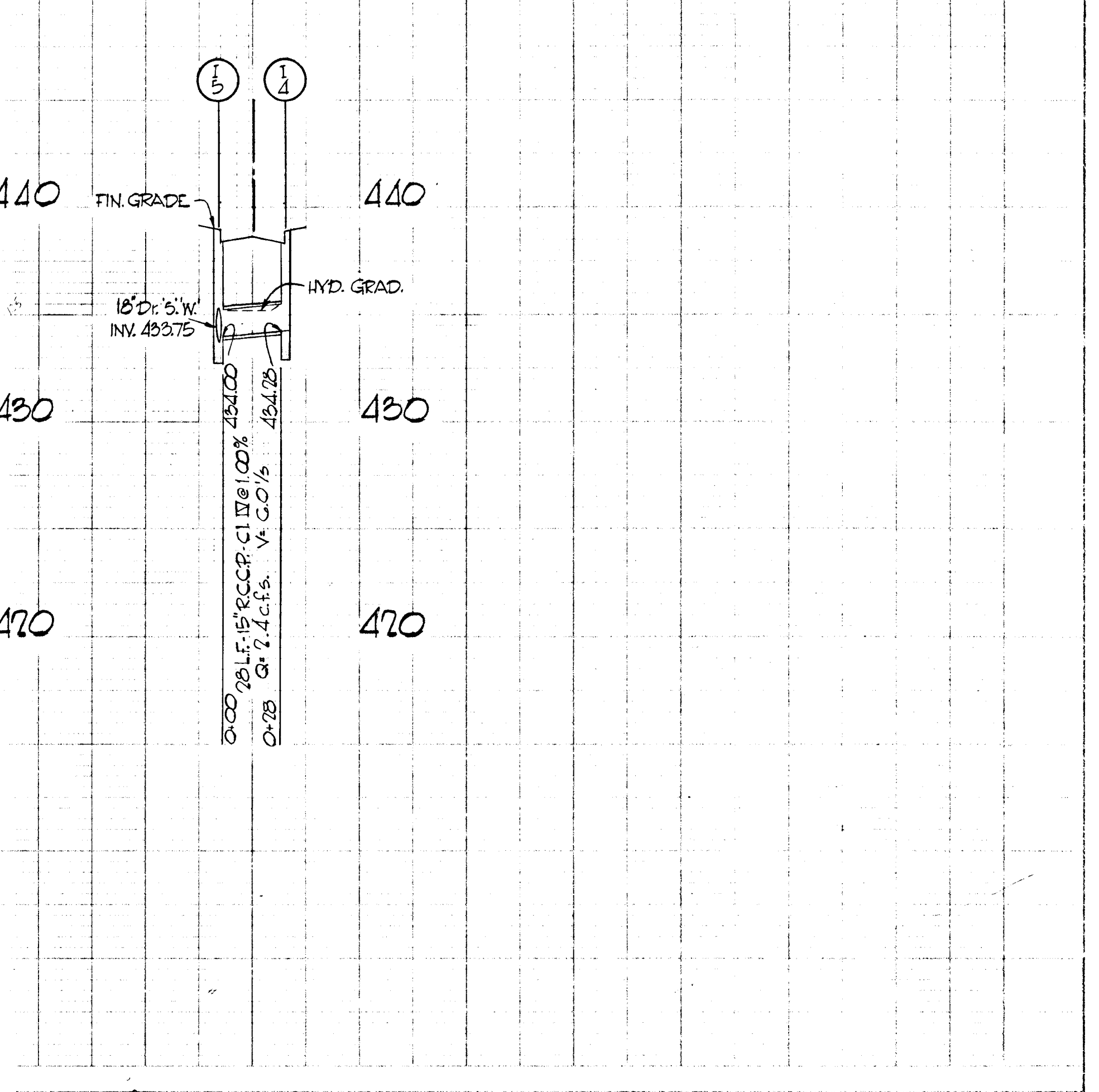
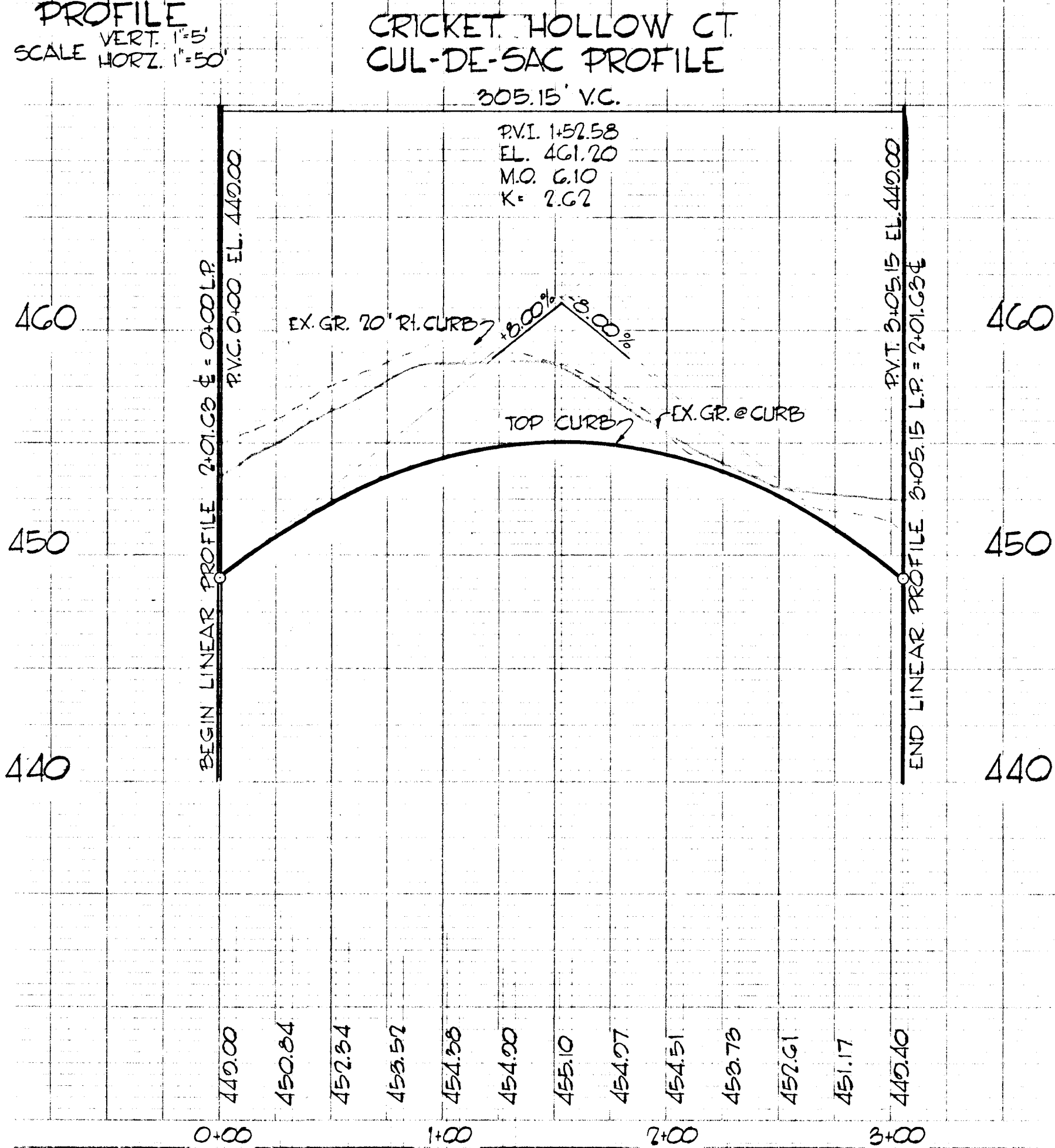
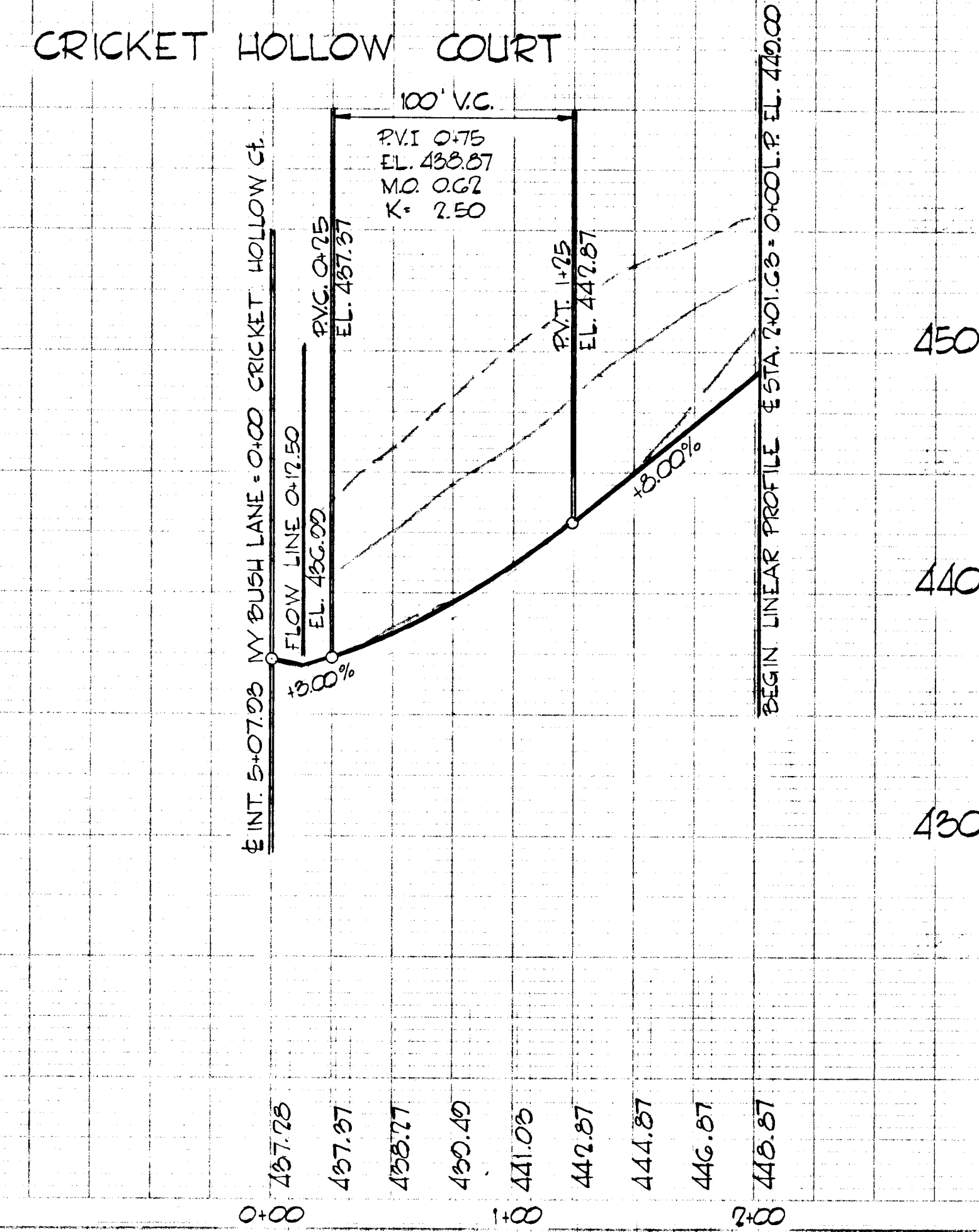
COLUMBIA
5th ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
HOWARD RESEARCH AND DEVELOPMENT CORP.
THE VILLAGE OF CROSS KEYS - BALTIMORE, MARYLAND 21210

PROJECT AREA:
SECTION 2 AREA 2

PROJECT TITLE:
PLAN & PROFILE
CRICKET HOLLOW COURT

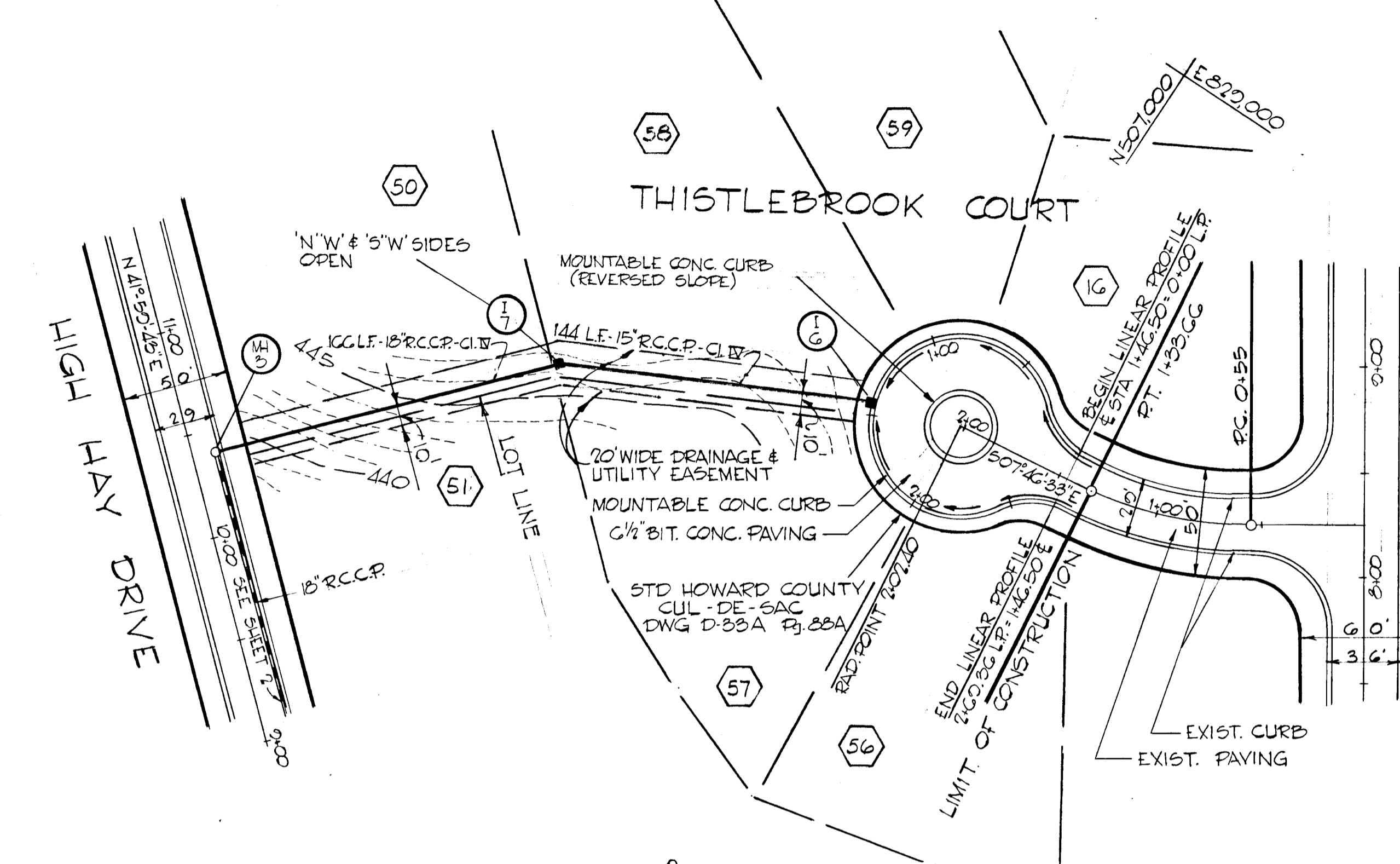
Des. By: F.T. Scale: AS SHOWN Dwg. No: 5 of 14
 Dim. By: F.T. Date: 5-23-69 C.C.F. No:
 Chk. By: P.A.P. Approved:

LEGEND
EXISTING GROUND
PROPOSED GROUND
EXISTING GROUND 20' ON B/W
PROPOSED GROUND 20' ON B/W
PAVED GRATE



STORM DRAINAGE STRUCTURE SCHEDULE						
NO.	TYPE	LOCATION	INV. IN	INV. OUT	I.C.P. ELEV.	REMARKS
I-G	COMB. 5' INLET SINGLE GRATE	L.P. Sta. 1+44.44 E INLET		447.88	450.88	SEE DETAIL SHEET
I-7	STD. 6' INLET	N 506, 825.02 E 870, 787.76	440.00	450.75	444.50	Ho Co. Std. Dwg. C4-C Pg. 110-C

PLAN
SCALE 1"=50'



SEE APPROVED ROAD CONSTRUCTION PLANS
2-0-65 BY H.C.P.C.
VILLAGE OF HARPER'S CHOICE
SEC. 2 HOBBIT'S GLEN AREA 1

NOTE:
CONTRACTOR TO MEET EXISTING
PAVING & CURBS UNDER THE
DIRECTION OF THE ENGINEER IN
THE FIELD

APPROVED
DIVISION OF
LAND DEVELOPMENT
OFFICE OF
PLANNING AND ZONING
OF HOWARD COUNTY
DATE: APR 10 1970

J.H.C.

STATE OF MARYLAND
REGISTERED PROFESSIONAL ENGINEER
RICHARD P. BROWNE
PE. 415. 5723

RICHARD P. BROWNE ASSOCIATES
CONSULTING ENGINEERS - PLANNERS
COLUMBIA, MARYLAND

9-10-70 1 SHOW STORM DRAIN & OF ESM'T.

Rev. Date: Rev. No. Revision Description

COLUMBIA
5th ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
HOWARD RESEARCH AND DEVELOPMENT CORP.
THE VILLAGE OF CROSS KEYS - BALTIMORE, MARYLAND 21210

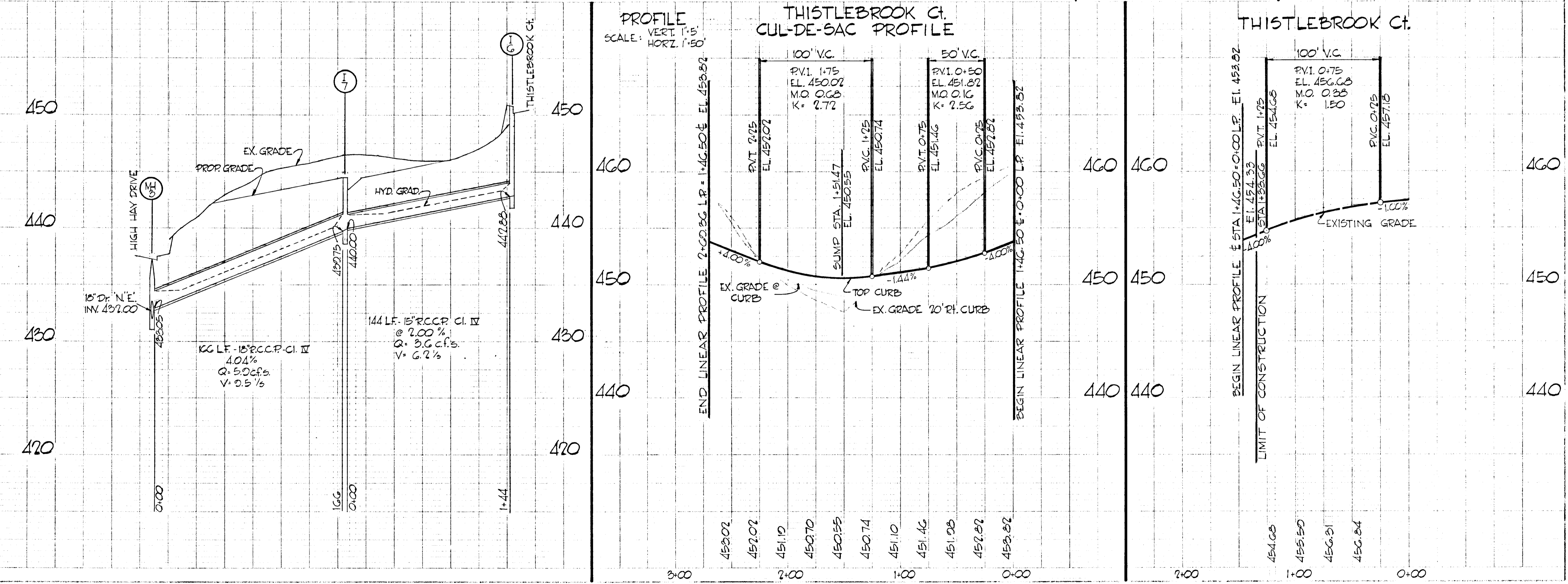
PROJECT AREA
VILLAGE OF HARPER'S CHOICE
SECTION 2 AREA 2

PROJECT TITLE
PLAN & PROFILE
THISTLEBROOK COURT

Des. By: F.T. Scale: AS SHOWN Dwg. No. 7 of 14
Dwn. By: F.T. Date: 5-23-60 C.C.F. No.
CHK. By: P.A.P. Approved

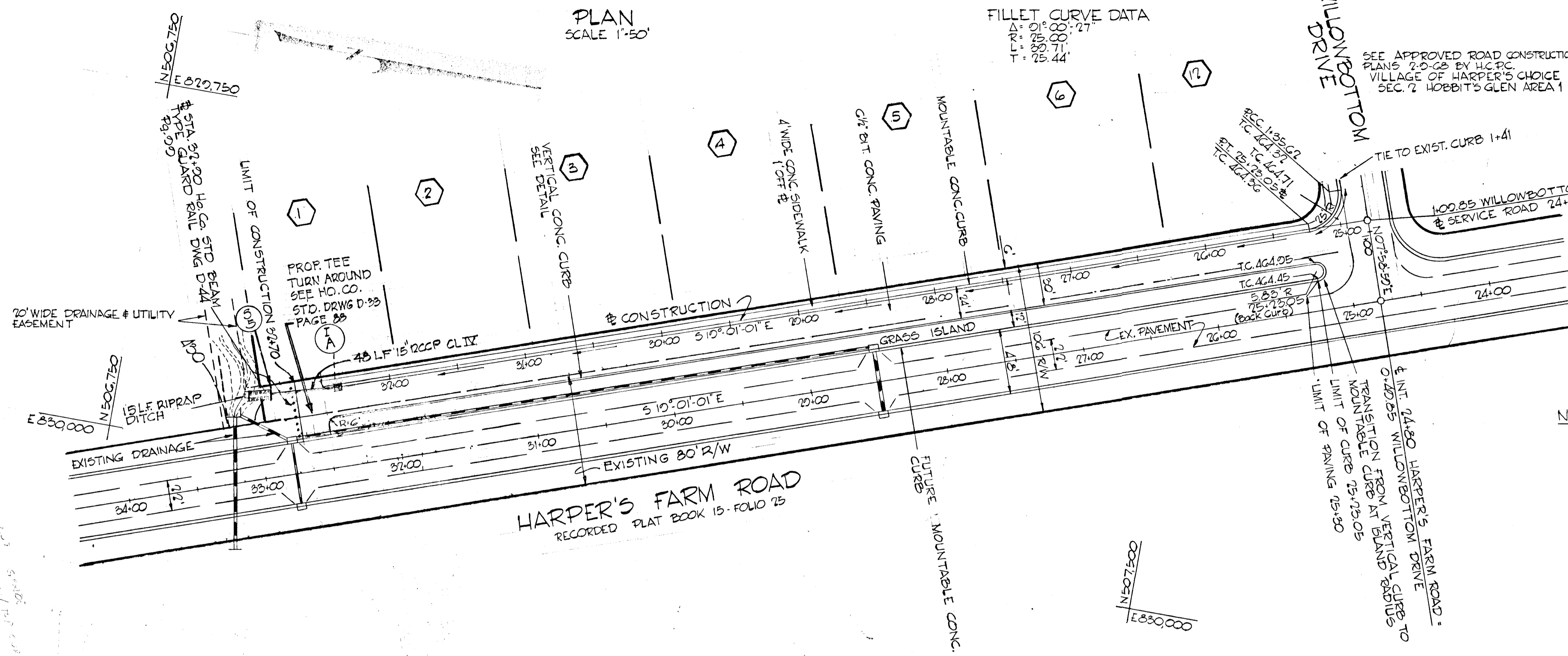
LEGEND

- EXISTING GROUND
- EXISTING GRADE
- EXISTING 15" R/W
- EXISTING 20" R/W
- EXISTING 30" R/W
- EXISTING 40" R/W
- EXISTING 50" R/W
- EXISTING 60" R/W
- EXISTING 70" R/W
- EXISTING 80" R/W
- EXISTING 90" R/W
- EXISTING 100" R/W
- EXISTING 110" R/W
- EXISTING 120" R/W
- EXISTING 130" R/W
- EXISTING 140" R/W
- EXISTING 150" R/W
- EXISTING 160" R/W
- EXISTING 170" R/W
- EXISTING 180" R/W
- EXISTING 190" R/W
- EXISTING 200" R/W
- EXISTING 210" R/W
- EXISTING 220" R/W
- EXISTING 230" R/W
- EXISTING 240" R/W
- EXISTING 250" R/W
- EXISTING 260" R/W
- EXISTING 270" R/W
- EXISTING 280" R/W
- EXISTING 290" R/W
- EXISTING 300" R/W
- EXISTING 310" R/W
- EXISTING 320" R/W
- EXISTING 330" R/W
- EXISTING 340" R/W
- EXISTING 350" R/W
- EXISTING 360" R/W
- EXISTING 370" R/W
- EXISTING 380" R/W
- EXISTING 390" R/W
- EXISTING 400" R/W
- EXISTING 410" R/W
- EXISTING 420" R/W
- EXISTING 430" R/W
- EXISTING 440" R/W
- EXISTING 450" R/W
- EXISTING 460" R/W
- EXISTING 470" R/W
- EXISTING 480" R/W
- EXISTING 490" R/W
- EXISTING 500" R/W
- EXISTING 510" R/W
- EXISTING 520" R/W
- EXISTING 530" R/W
- EXISTING 540" R/W
- EXISTING 550" R/W
- EXISTING 560" R/W
- EXISTING 570" R/W
- EXISTING 580" R/W
- EXISTING 590" R/W
- EXISTING 600" R/W
- EXISTING 610" R/W
- EXISTING 620" R/W
- EXISTING 630" R/W
- EXISTING 640" R/W
- EXISTING 650" R/W
- EXISTING 660" R/W
- EXISTING 670" R/W
- EXISTING 680" R/W
- EXISTING 690" R/W
- EXISTING 700" R/W
- EXISTING 710" R/W
- EXISTING 720" R/W
- EXISTING 730" R/W
- EXISTING 740" R/W
- EXISTING 750" R/W
- EXISTING 760" R/W
- EXISTING 770" R/W
- EXISTING 780" R/W
- EXISTING 790" R/W
- EXISTING 800" R/W
- EXISTING 810" R/W
- EXISTING 820" R/W
- EXISTING 830" R/W
- EXISTING 840" R/W
- EXISTING 850" R/W
- EXISTING 860" R/W
- EXISTING 870" R/W
- EXISTING 880" R/W
- EXISTING 890" R/W
- EXISTING 900" R/W
- EXISTING 910" R/W
- EXISTING 920" R/W
- EXISTING 930" R/W
- EXISTING 940" R/W
- EXISTING 950" R/W
- EXISTING 960" R/W
- EXISTING 970" R/W
- EXISTING 980" R/W
- EXISTING 990" R/W
- EXISTING 1000" R/W



PLAN
 DRAWN BY: [Name]
 CHECKED BY: [Name]
 DATE: [Date]

PROFILE
 DRAWN BY: [Name]
 CHECKED BY: [Name]
 DATE: [Date]



STORM DRAINAGE STRUCTURE SCHEDULE							
NO.	TYPE	LOCATION	INV. IN	INV. OUT	I.C.P. ELEV.	REMARKS	
I-A	COMPO. INLET SINGLE GRATE	ST. 32+20 INLET		431.22	439.22	SEE DETAIL SHEET	
	3-5 STD. C ENDWALL	ST. 32+86 60' RIGHT		429.20		HO. CO. STD. DRWG. D-52 Pg. 107	

Rev No	Rev Date	Revision Description
1	3-12-70	ADD INLET I-A & OUTFALL PIPE
2	5-12-70	REMOVED ENTRANCE HARPER'S FARM RD.
2	3-12-70	ADD TEE TURN AROUND

NOTE
 CONTRACTOR TO MEET ALL EXISTING PAVING & CURB UNDER THE DIRECTION OF THE ENGINEER IN THE FIELD

Richard P. Browne
 RICHARD P. BROWNE, P.E., P.L.S. #5730

RICHARD P. BROWNE ASSOCIATES
 CONSULTING ENGINEERS - PLANNERS
 COLUMBIA, MARYLAND

COLUMBIA
 5th ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

HOWARD RESEARCH AND DEVELOPMENT CORP.
 THE VILLAGE OF CROSS KEYS - BALTIMORE, MARYLAND 21210

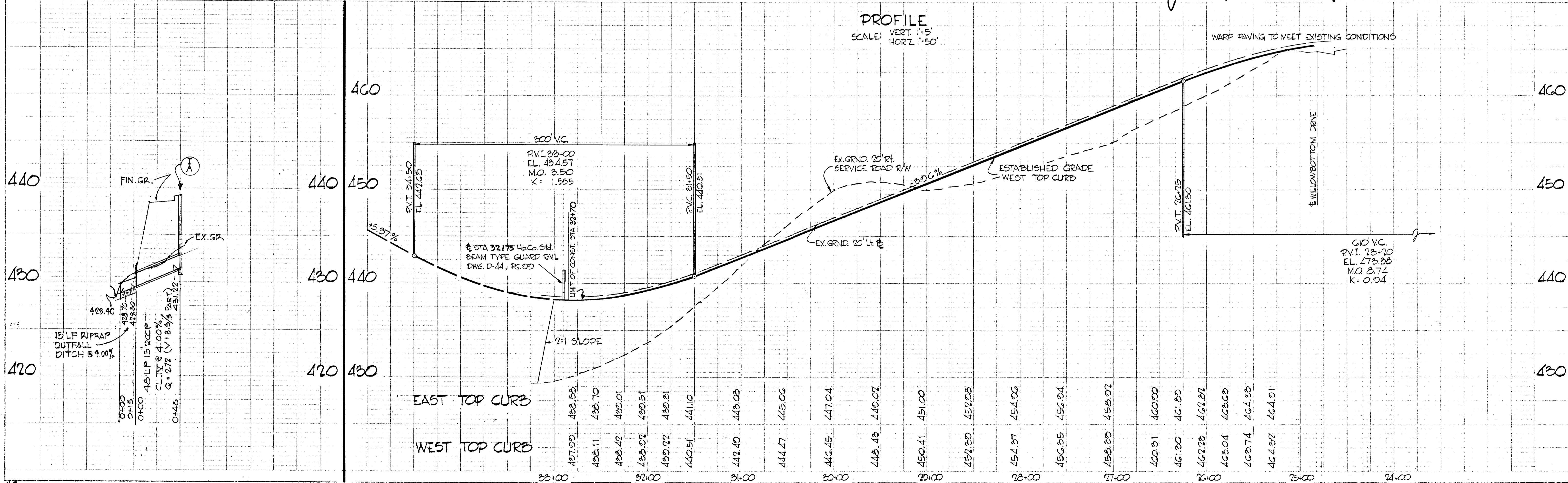
PROJECT AREA
 VILLAGE OF HARPER'S CHOICE
 SECTION 2 AREA 2

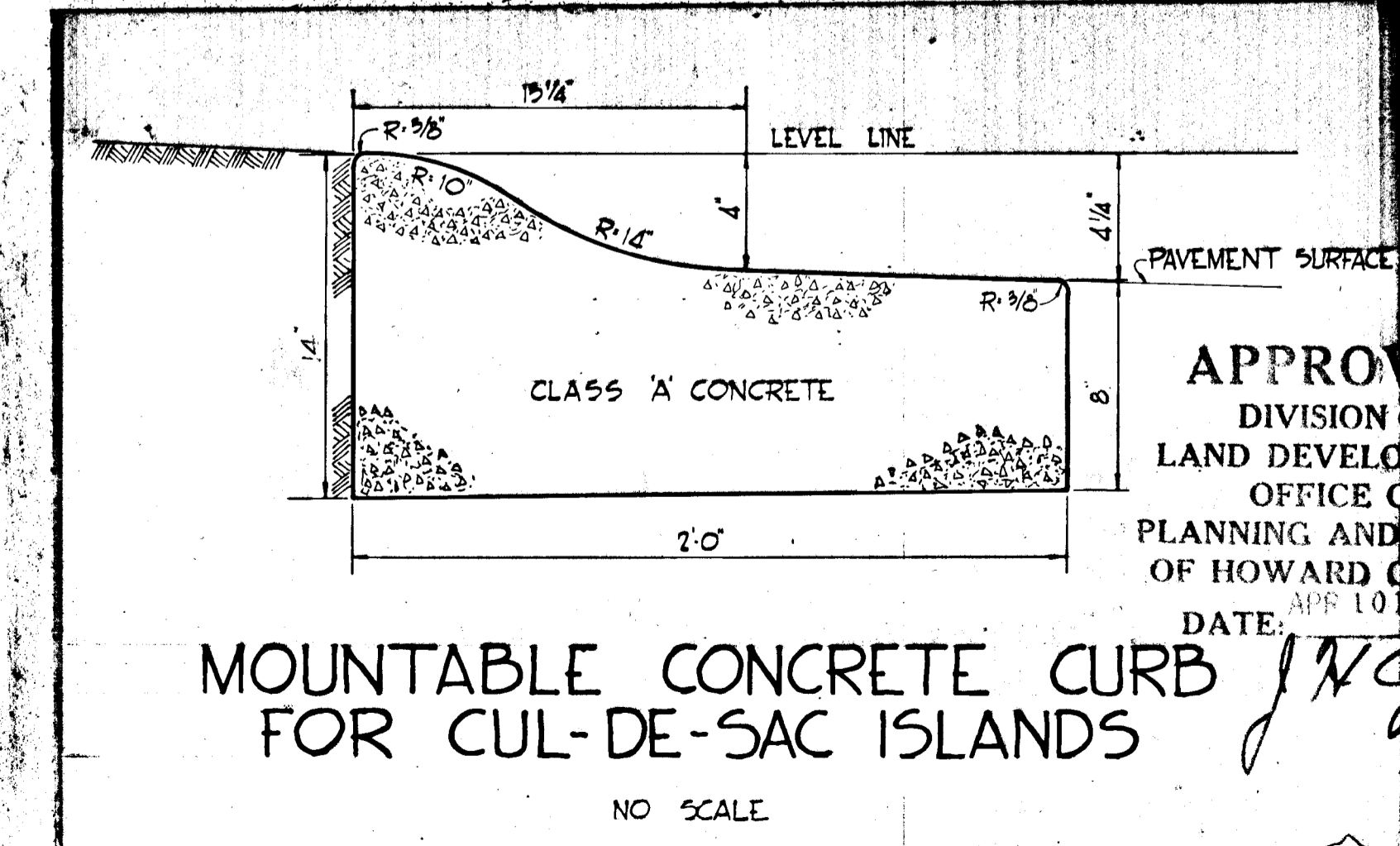
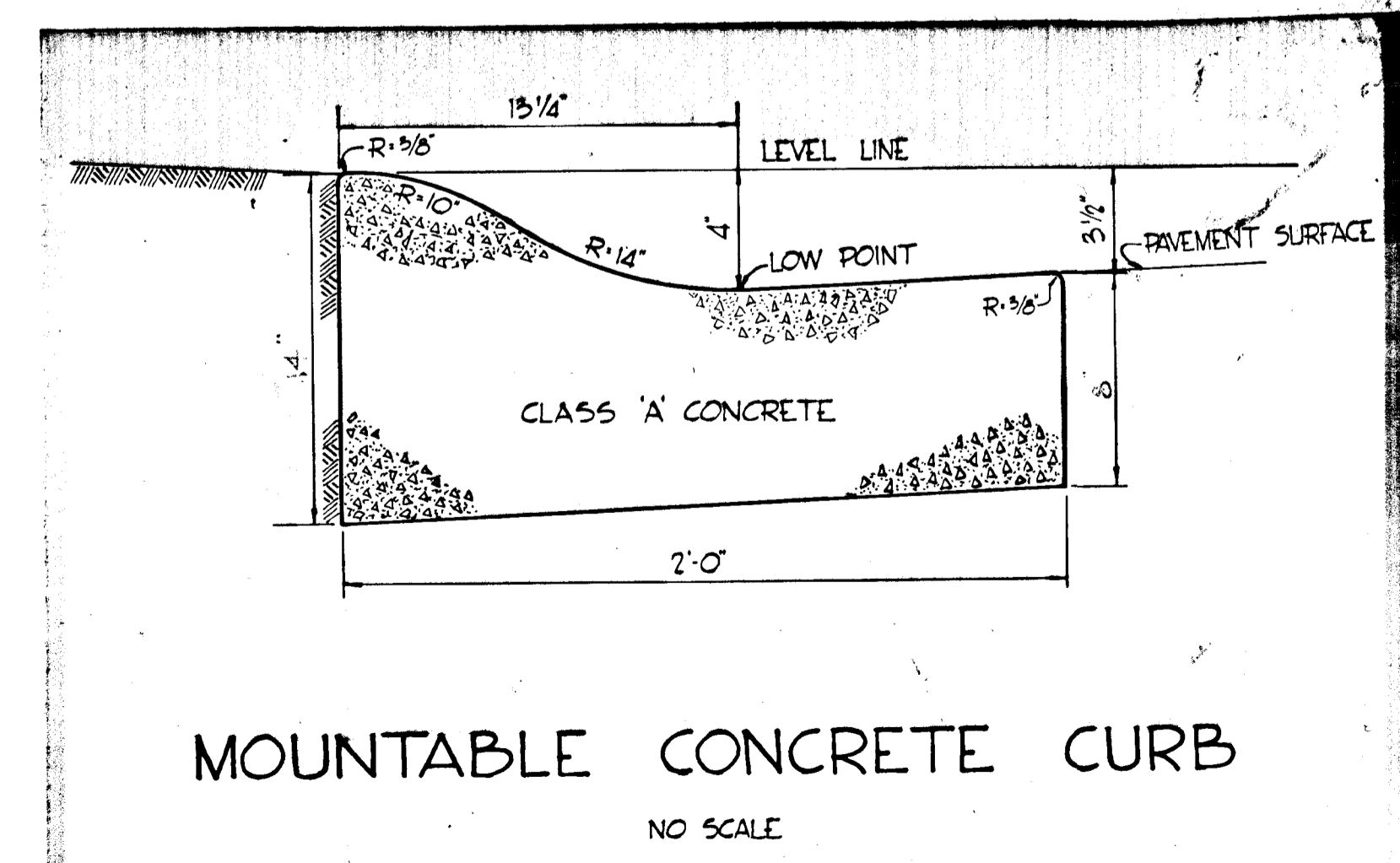
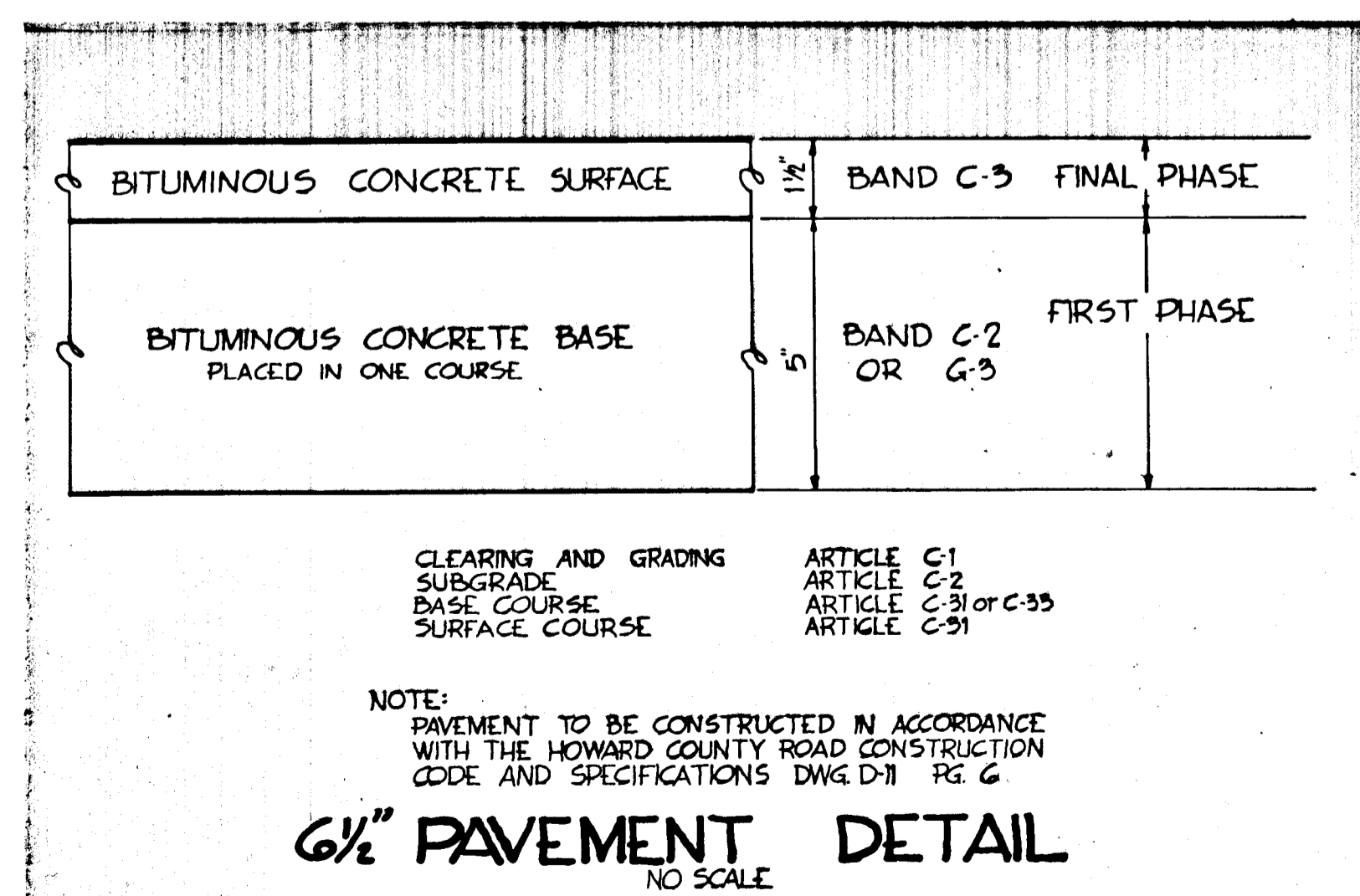
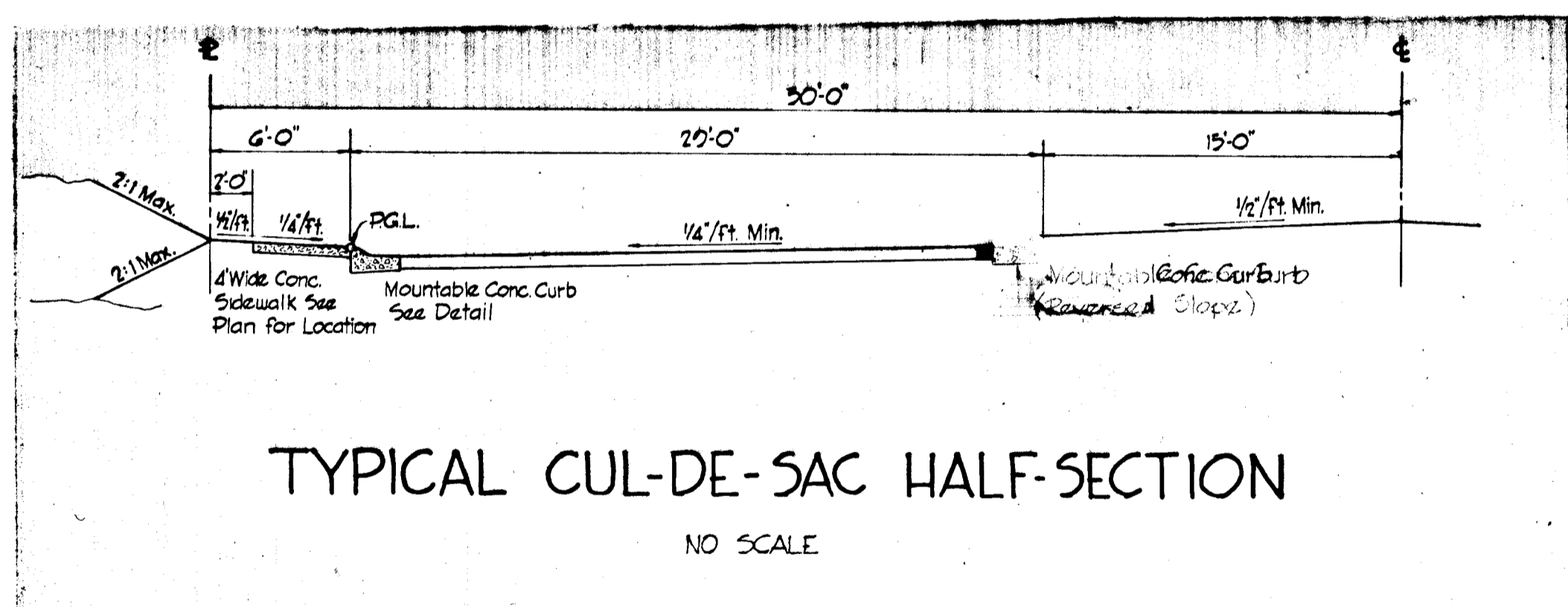
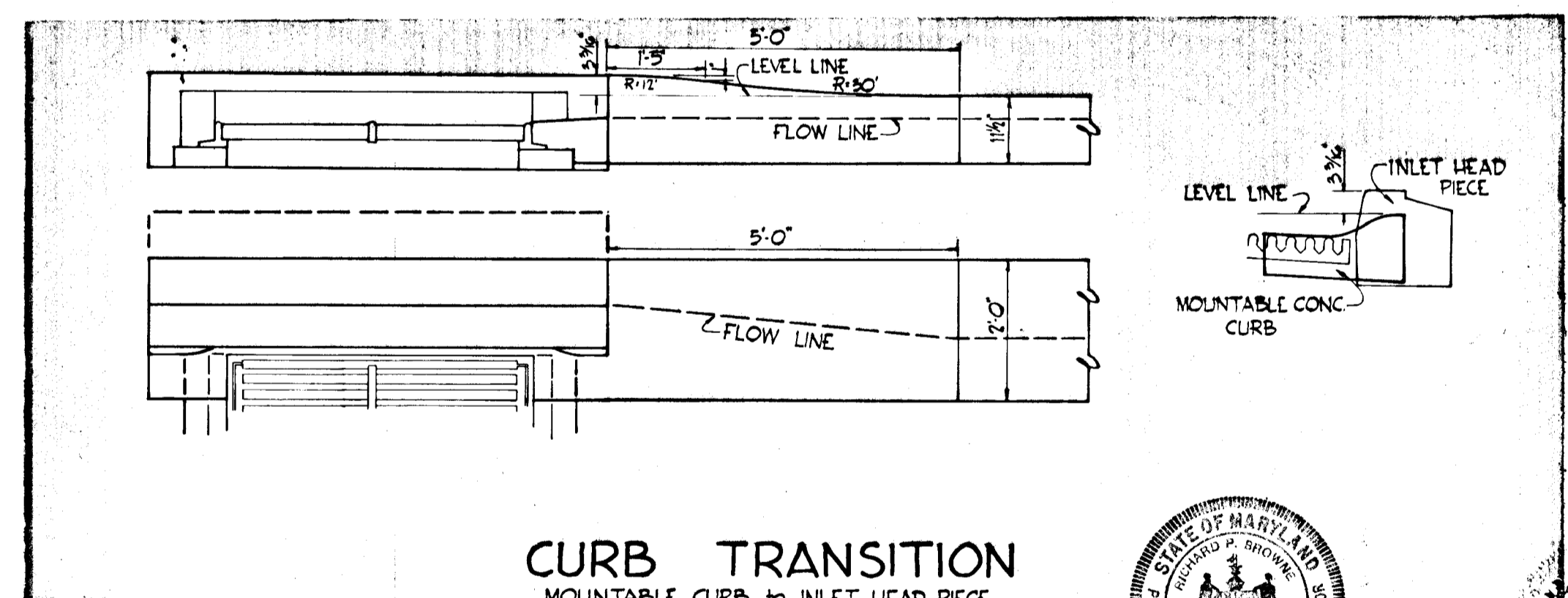
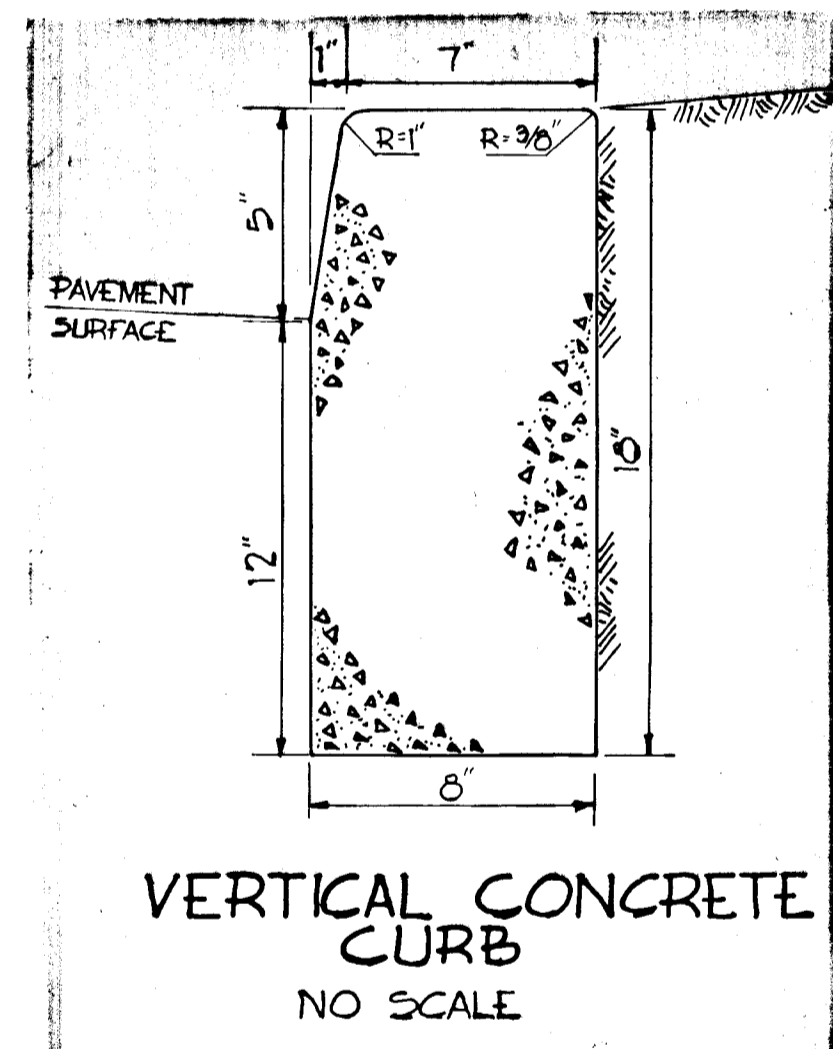
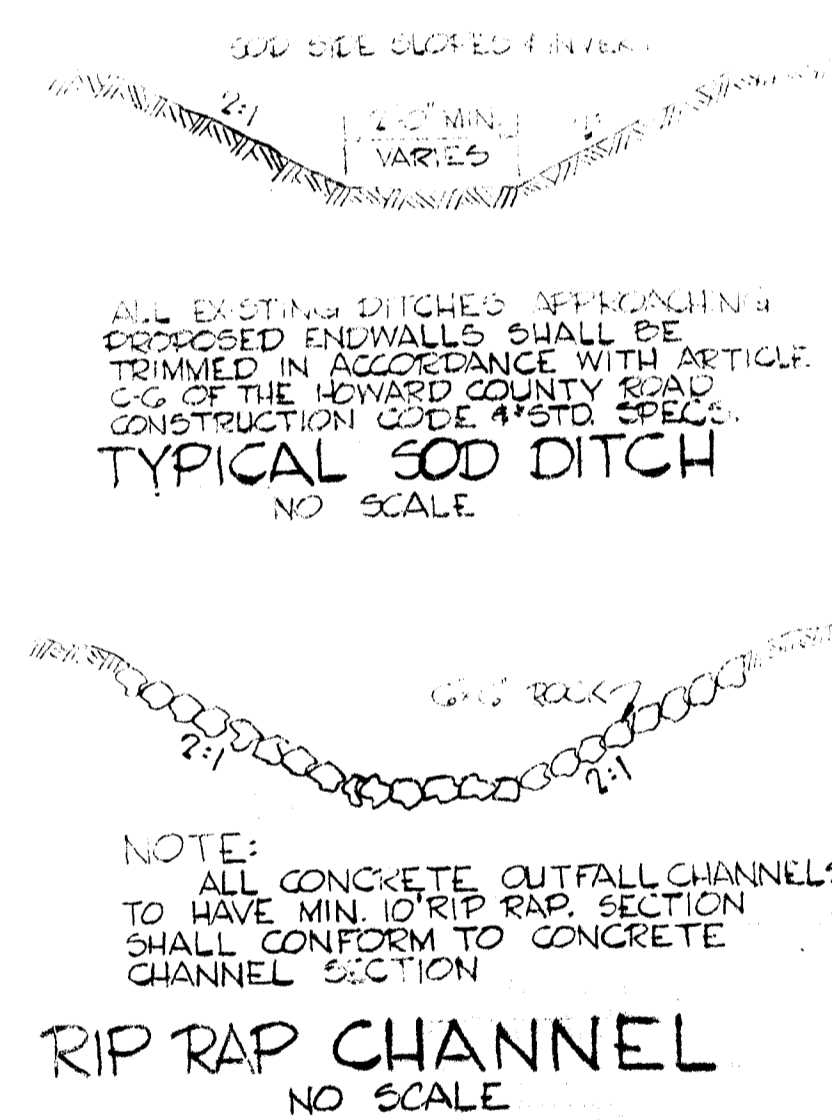
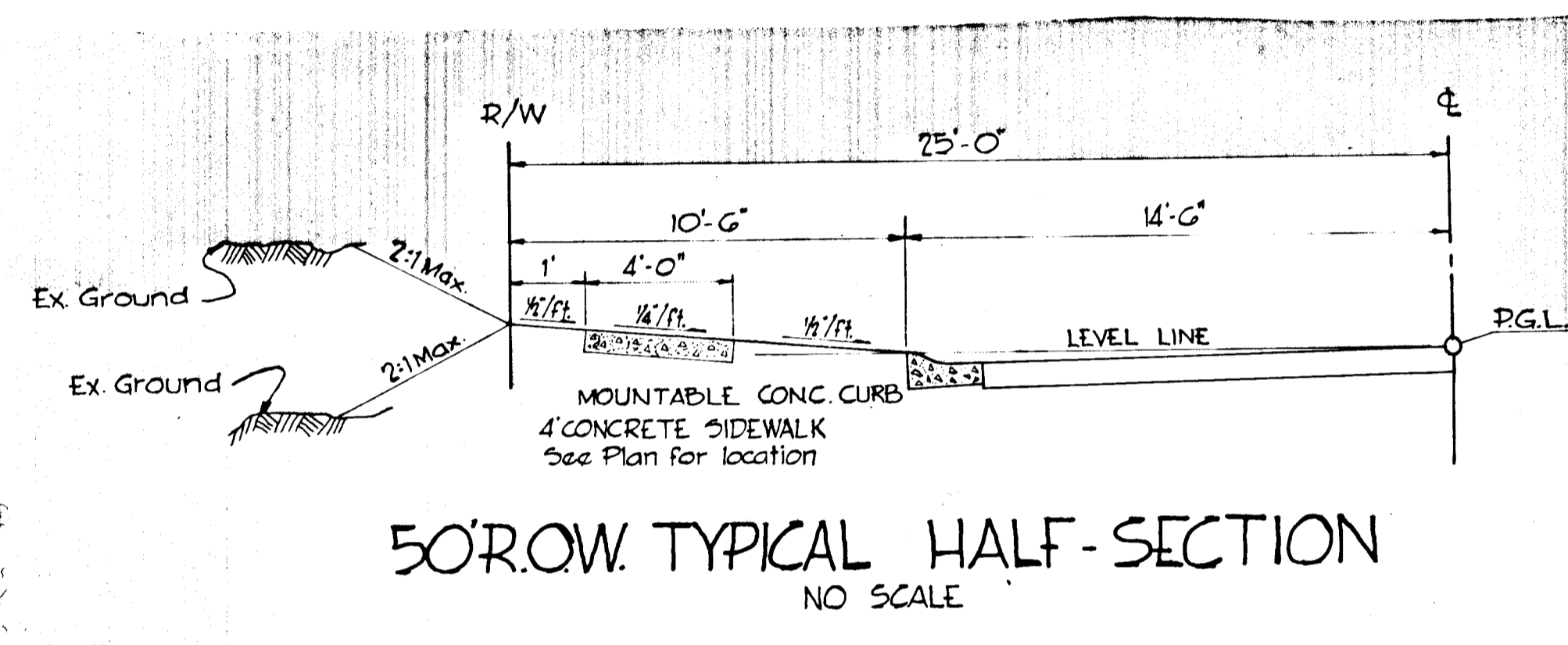
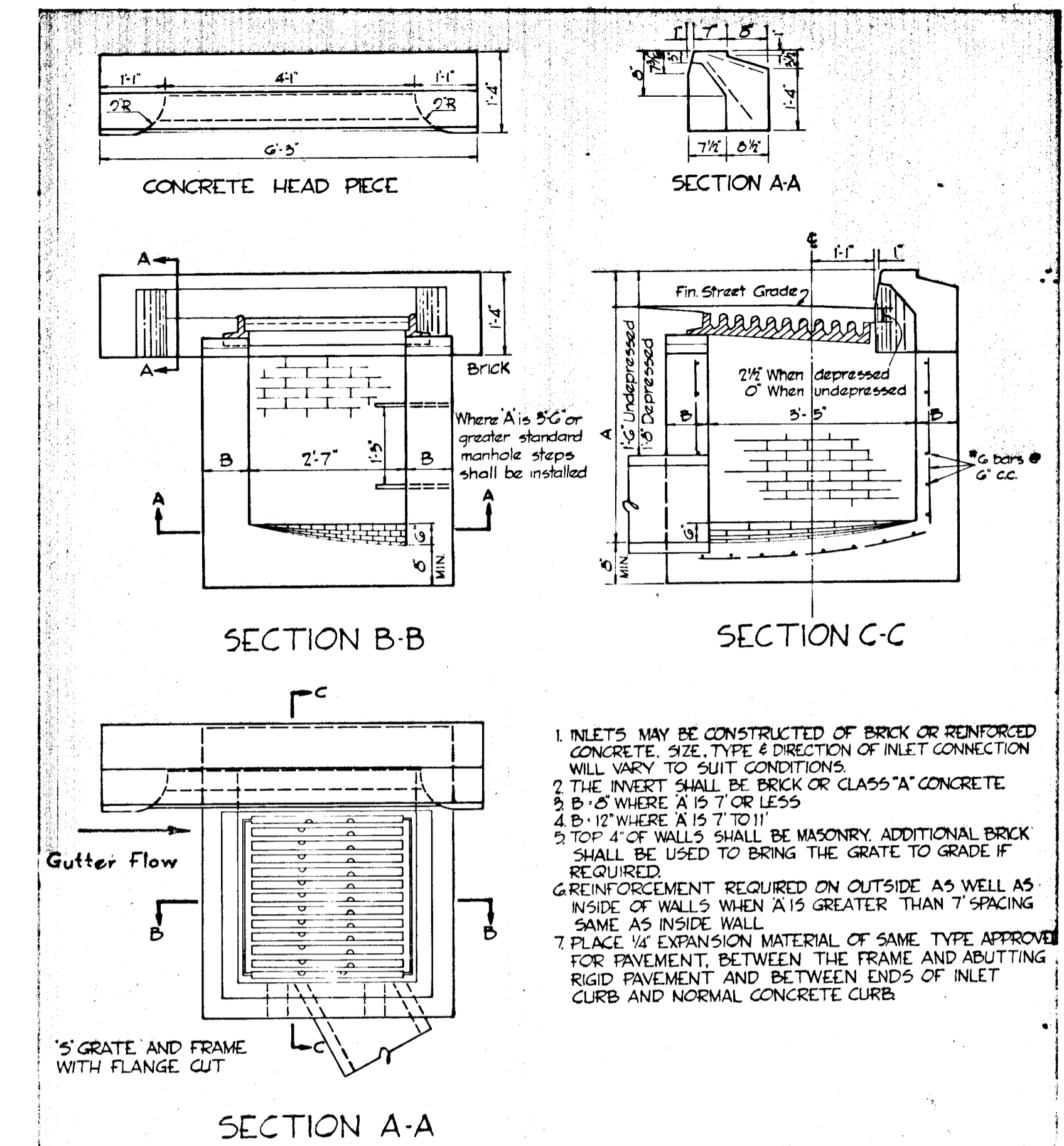
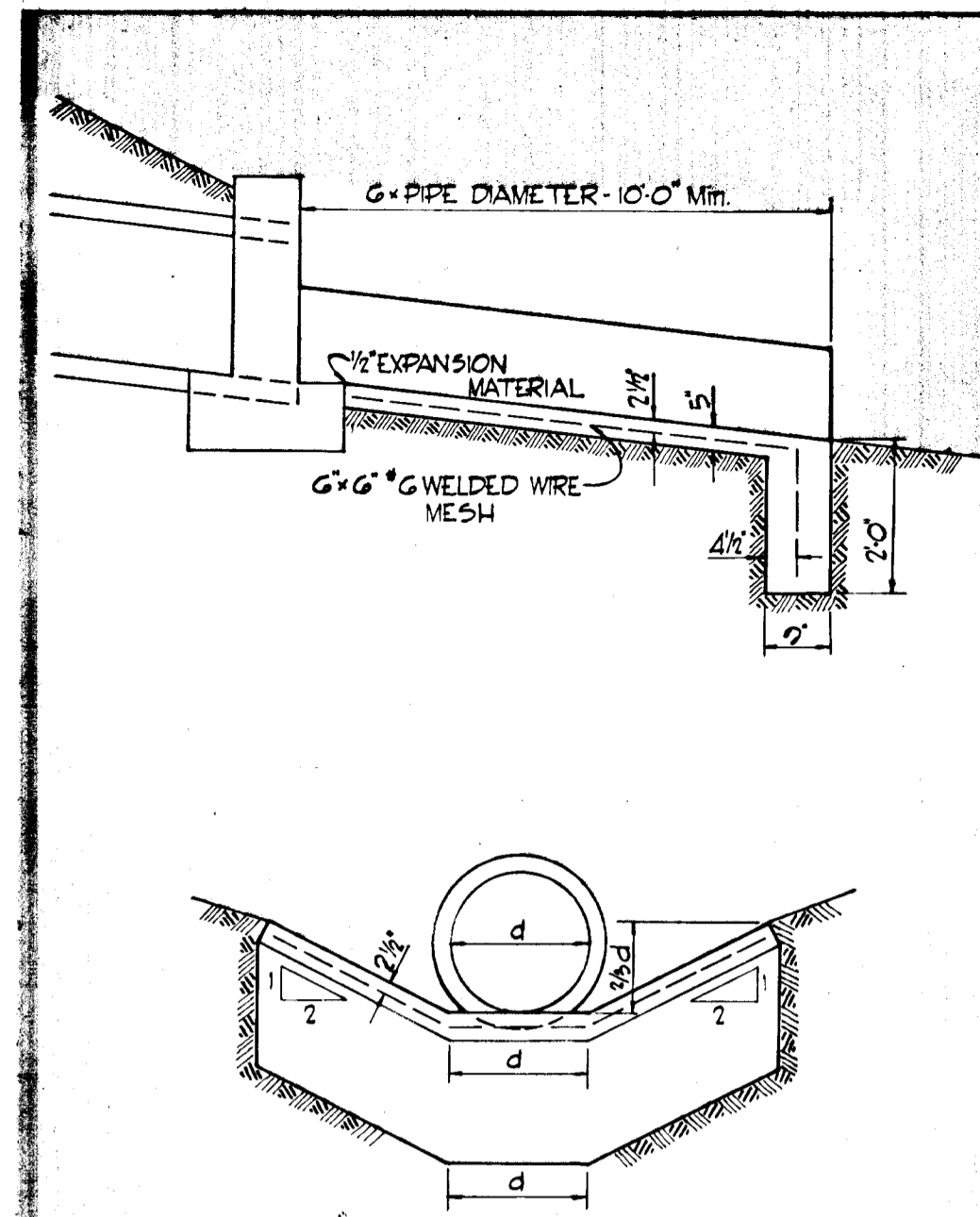
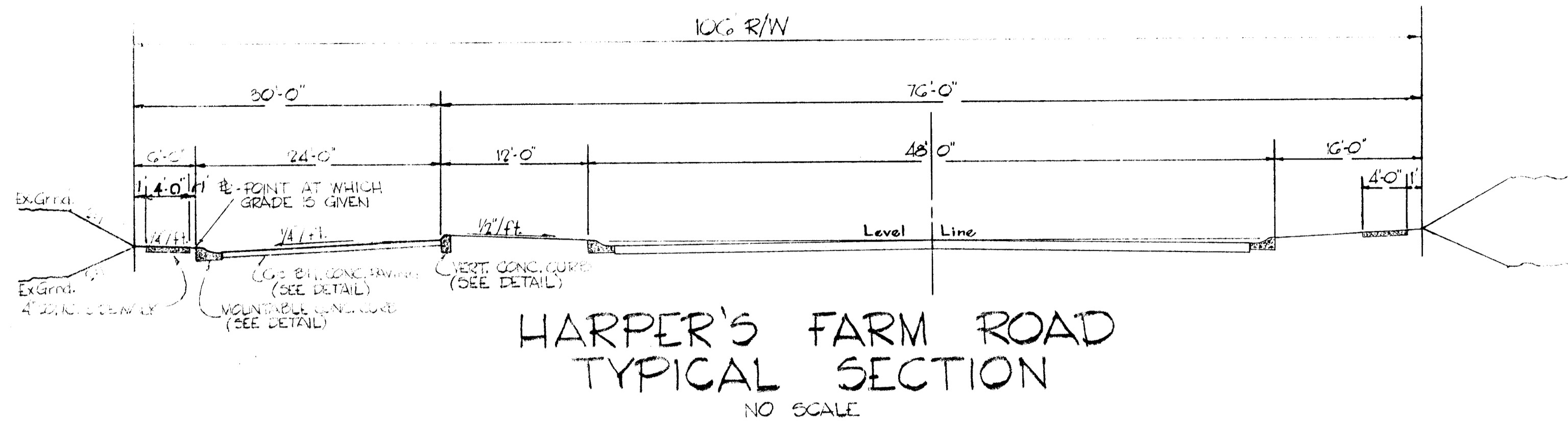
PROJECT TITLE
 PLAN & PROFILE
 HARPER'S FARM ROAD

Des By: F.T. Scale: AS SHOWN Dwg. No: 3 of 14
 Date: 5-23-69 C.C.F. No:
 App. By: P.A.P. Approved:

APPROVED
 DIVISION OF
 LAND DEVELOPMENT
 OFFICE OF
 PLANNING AND ZONING
 OF HOWARD COUNTY
 DATE: APR 10 1970

J.H.F.





Richard P. Browne
RICHARD P. BROWNE P.E. & S. 5788

RICHARD P. BROWNE ASSOCIATES
CONSULTING ENGINEERS - PLANNERS
COLUMBIA, MARYLAND

1-12-70	1	REVISE HARPER'S FARM ROAD TYPICAL (ET)
Rev Date	Rev No	Revision Description

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

HOWARD RESEARCH AND DEVELOPMENT CORP.
THE VILLAGE OF CROSS KEYS - BALTIMORE, MARYLAND 21210

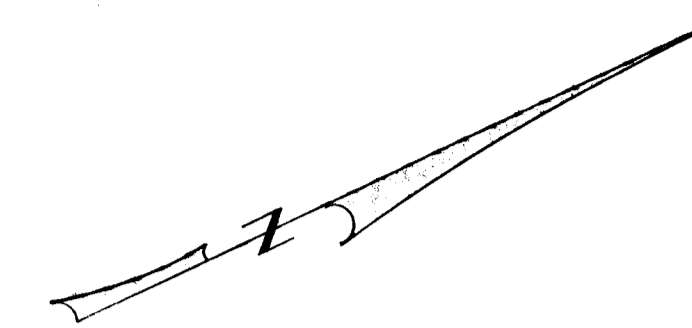
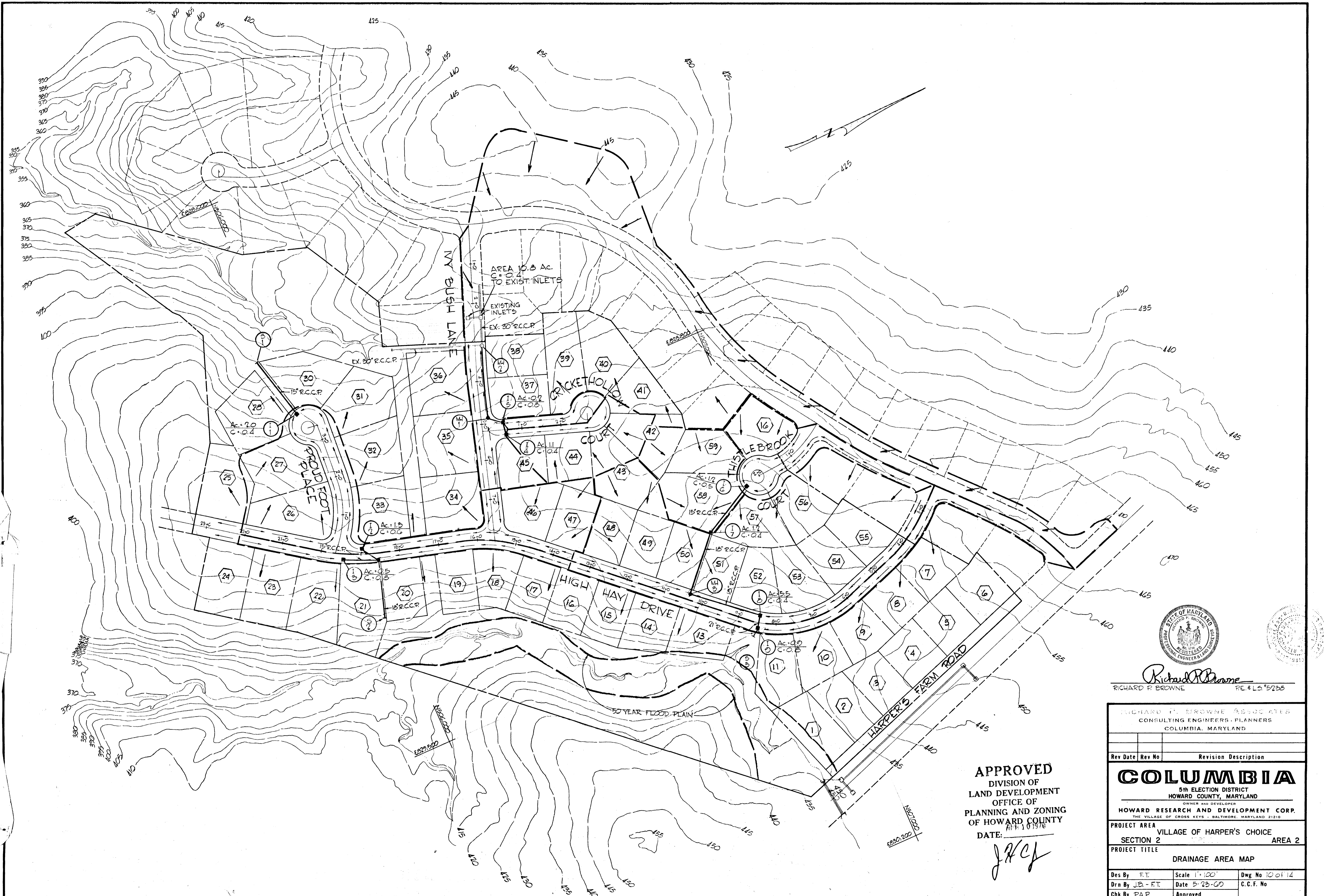
PROJECT AREA: VILLAGE OF HARPER'S CHOICE
SECTION 2
PROJECT TITLE: DETAILS


Des By: E.L.	Scale: AS SHOWN	Dwg No: 2 of 14
Drn By: F.T.J.B.-R.S.	Date: 5-23-69	C.C.F. No.
Chk By: R.A.P.	Approved	

APPROVED
DIVISION OF
LAND DEVELOPMENT
OFFICE OF
PLANNING AND ZONING
OF HOWARD COUNTY
DATE: APR 10 1970

*1860

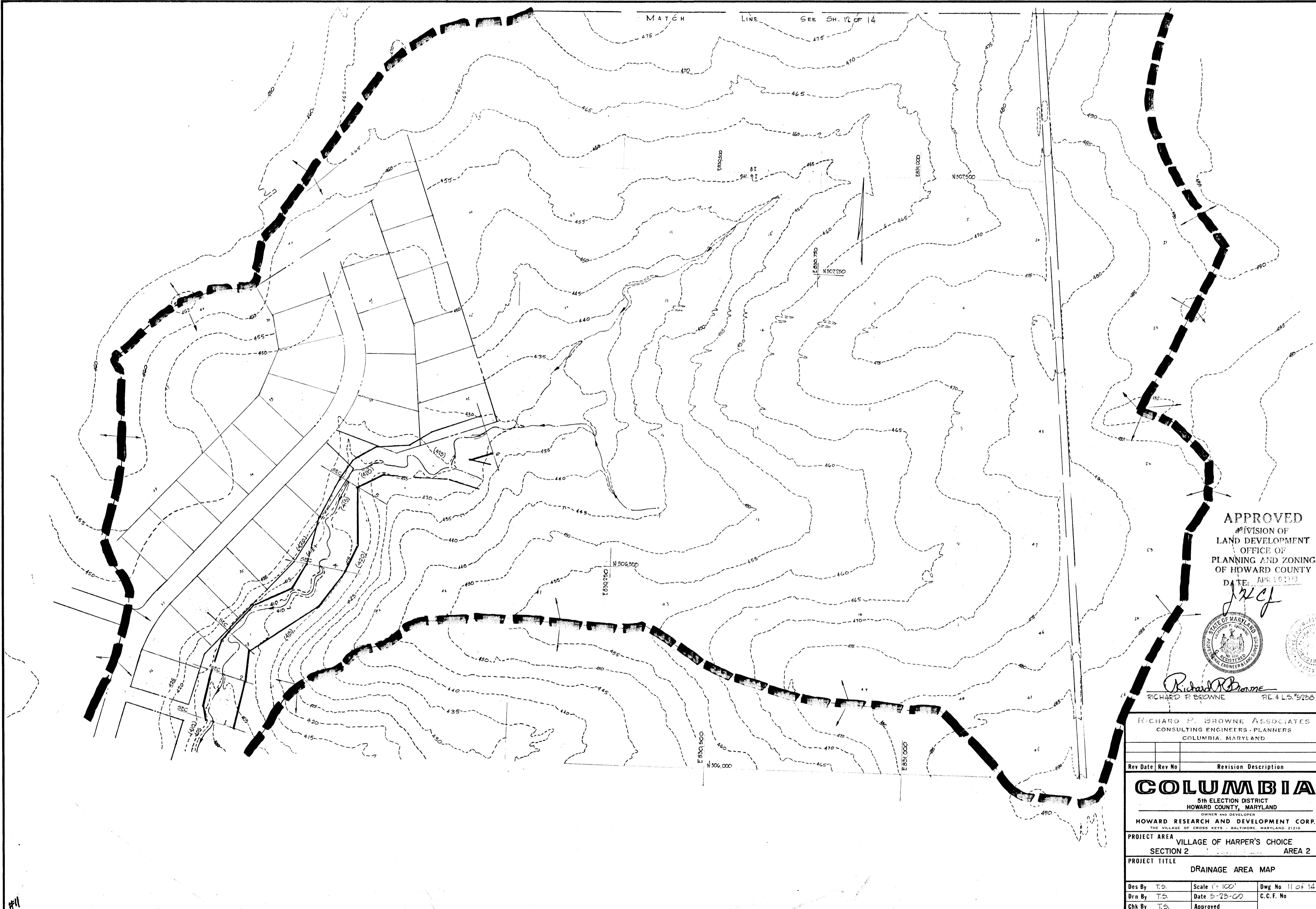
F-70-65



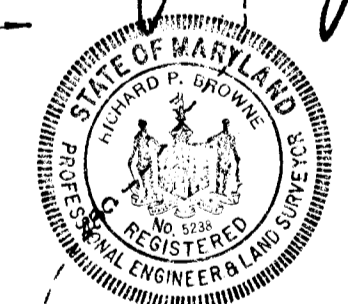

 Richard F. Browne
 RICHARD F. BROWNE PE # L.S. 15238

APPROVED
 DIVISION OF
 LAND DEVELOPMENT
 OFFICE OF
 PLANNING AND ZONING
 OF HOWARD COUNTY
 DATE: 5-10-65
JFC

RICHARD F. BROWNE ASSOCIATES CONSULTING ENGINEERS - PLANNERS COLUMBIA, MARYLAND		
Rev Date	Rev No	Revision Description
COLUMBIA 5th ELECTION DISTRICT HOWARD COUNTY, MARYLAND <small>OWNER AND DEVELOPER</small> HOWARD RESEARCH AND DEVELOPMENT CORP. <small>THE VILLAGE OF CROSS KEYS - BALTIMORE, MARYLAND 21210</small>		
PROJECT AREA		
SECTION 2		AREA 2
PROJECT TITLE		
DRAINAGE AREA MAP		
Des By	F.T.	Scale 1" = 100'
Drn By	J.B. - F.T.	Date 5-23-65
Chk By	P.A.P.	Approved
		Dwg No 10 of 12
		C.C.F. No



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LAND DEVELOPMENT
OFFICE OF
PLANNING AND ZONING
OF HOWARD COUNTY
DATE: APR 10 1977



Richard P. Browne
RICHARD P. BROWNE PE & L.S. 57238

RICHARD P. BROWNE ASSOCIATES
CONSULTING ENGINEERS - PLANNERS
COLUMBIA, MARYLAND

Rev Date	Rev No	Revision Description

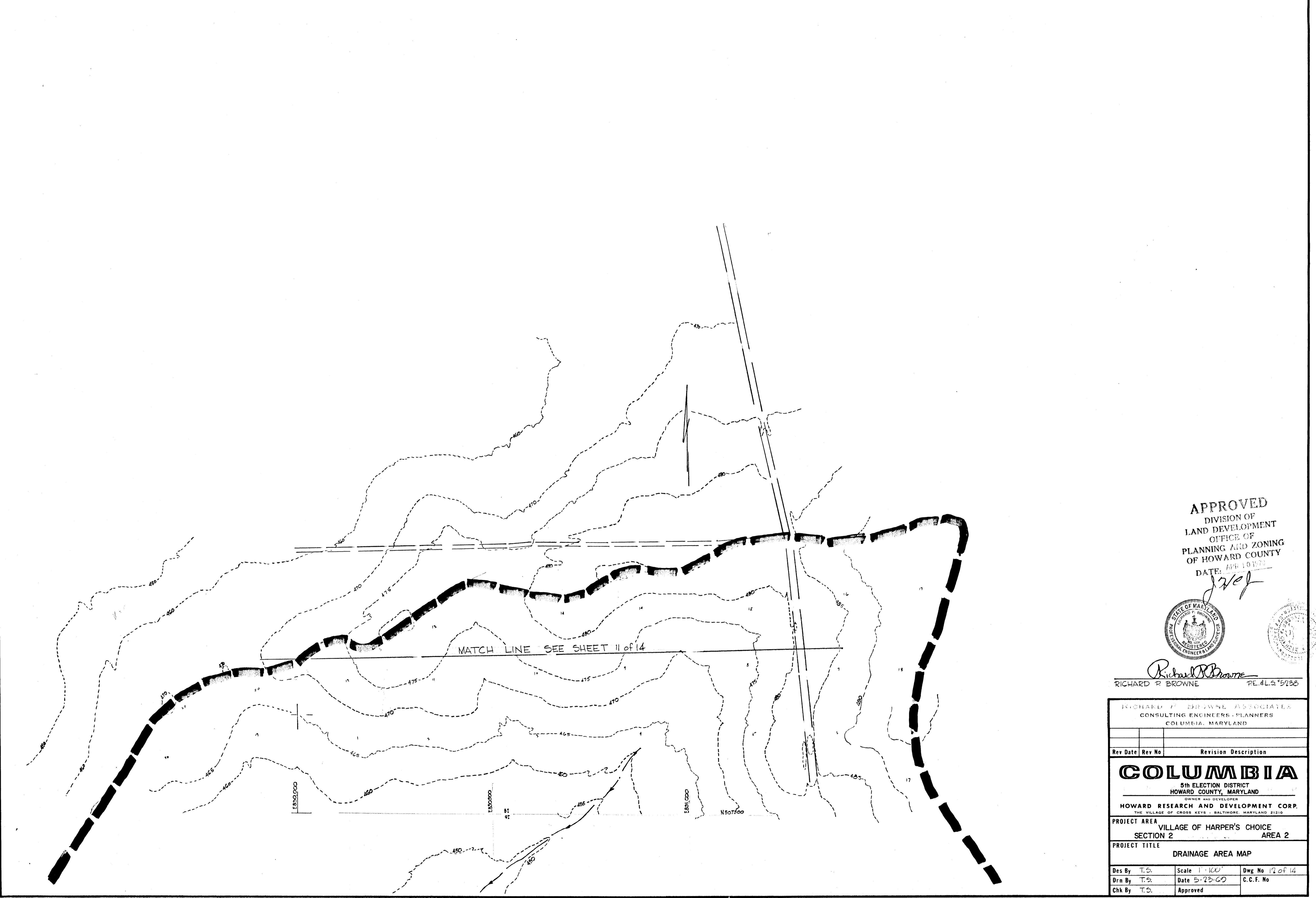
COLUMBIA

5th ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
OWNER AND DEVELOPER
HOWARD RESEARCH AND DEVELOPMENT CORP.
THE VILLAGE OF CROSS KEYS - BALTIMORE, MARYLAND 21210

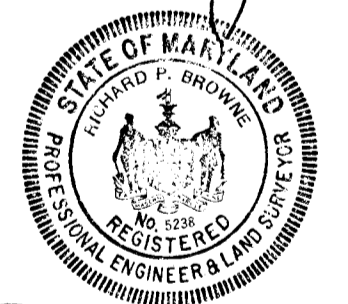
PROJECT AREA VILLAGE OF HARPER'S CHOICE
SECTION 2 AREA 2

PROJECT TITLE DRAINAGE AREA MAP

Des By	T.S.	Scale	1" = 100'	Dwg No	11 of 14
Drn By	T.S.	Date	5-23-60	C. C. F. No	
Chk By	T.S.	Approved			



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 OFFICE OF
 PLANNING AND ZONING
 OF HOWARD COUNTY
 DATE: APR 19 1970



Richard P. Browne
 RICHARD P. BROWNE PE.#L.S.'5238

RICHARD P. BROWNE ASSOCIATES
 CONSULTING ENGINEERS - PLANNERS
 COLUMBIA, MARYLAND

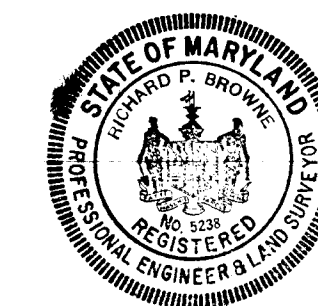
Rev Date	Rev No	Revision Description

COLUMBIA
 5th ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 OWNER AND DEVELOPER
 HOWARD RESEARCH AND DEVELOPMENT CORP.
 THE VILLAGE OF CROSS KEYS - BALTIMORE, MARYLAND 21210

PROJECT AREA
 VILLAGE OF HARPER'S CHOICE
 SECTION 2 AREA 2

PROJECT TITLE
 DRAINAGE AREA MAP

Des By	T.S.	Scale	1"=100'	Dwg No	12 of 14
Drn By	T.S.	Date	5-23-69	C.C.F. No	
Chk By	T.S.	Approved			



Richard P. Browne
RICHARD P. BROWNE P.E. # 5233

Richard P. Browne, Associate
CONSULTING ENGINEER, PLANNING
AND ZONING

COLUMBIA

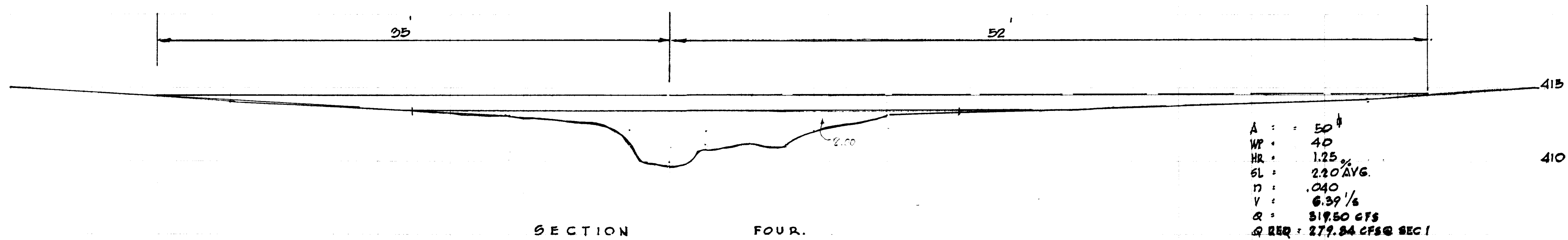
5th ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

HOWARD RECREATION AND DEVELOPMENT CORP.

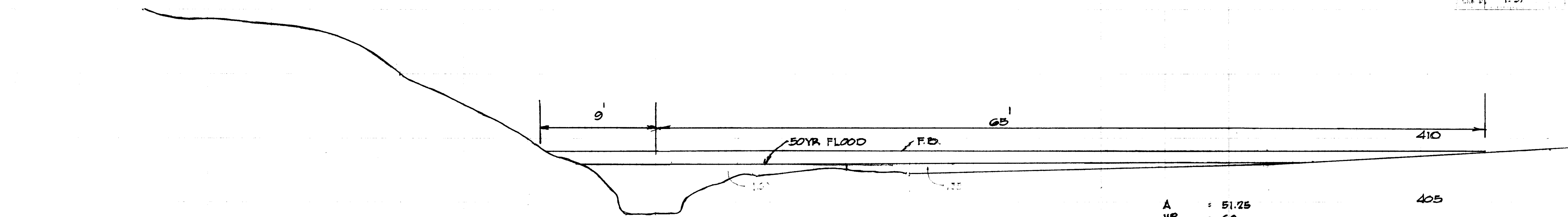
VILLAGE OF HARPER'S CHOICE
SECTION 2 AREA 2

FLOOD PLAIN SECTIONS

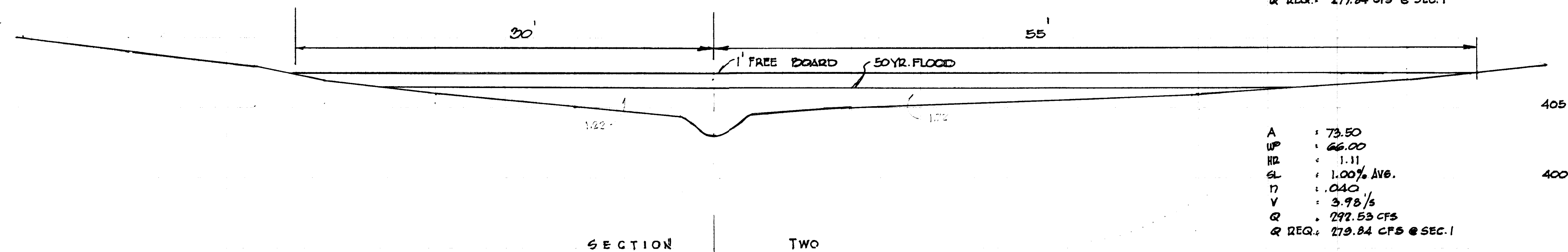
Drawn by T.S. Date AS SHOWN Page No. 13 of 14
Checked by T.S. Date 5-23-00
Scale T.S.



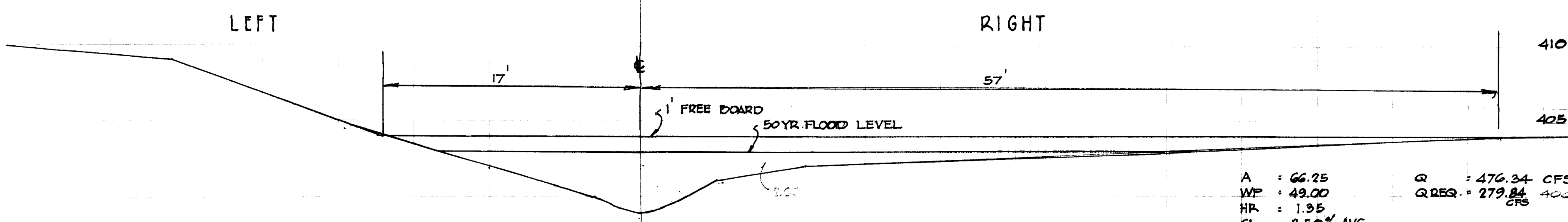
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 WP = 40
 HR = 1.25%
 SL = 2.40% AVG.
 n = .040
 V = 6.37 1/2
 Q = 317.50 CFS
 Q REQ = 279.84 CFS @ SEC. 1



A = 51.25
 WP = 60
 HR = 0.85
 SL = 2.00% AVG.
 n = .040
 V = 4.71 1/2
 Q = 241.39 CFS
 Q REQ = 279.84 CFS @ SEC. 1



A = 73.50
 WP = 66.00
 HR = 1.11
 SL = 1.00% AVG.
 n = .040
 V = 3.98 1/2
 Q = 292.53 CFS
 Q REQ = 279.84 CFS @ SEC. 1



A = 66.25
 WP = 49.00
 HR = 1.35
 SL = 2.50% AVG.
 n = .040
 V = 7.19 1/2
 Q = 476.34 CFS
 Q REQ = 279.84 CFS

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

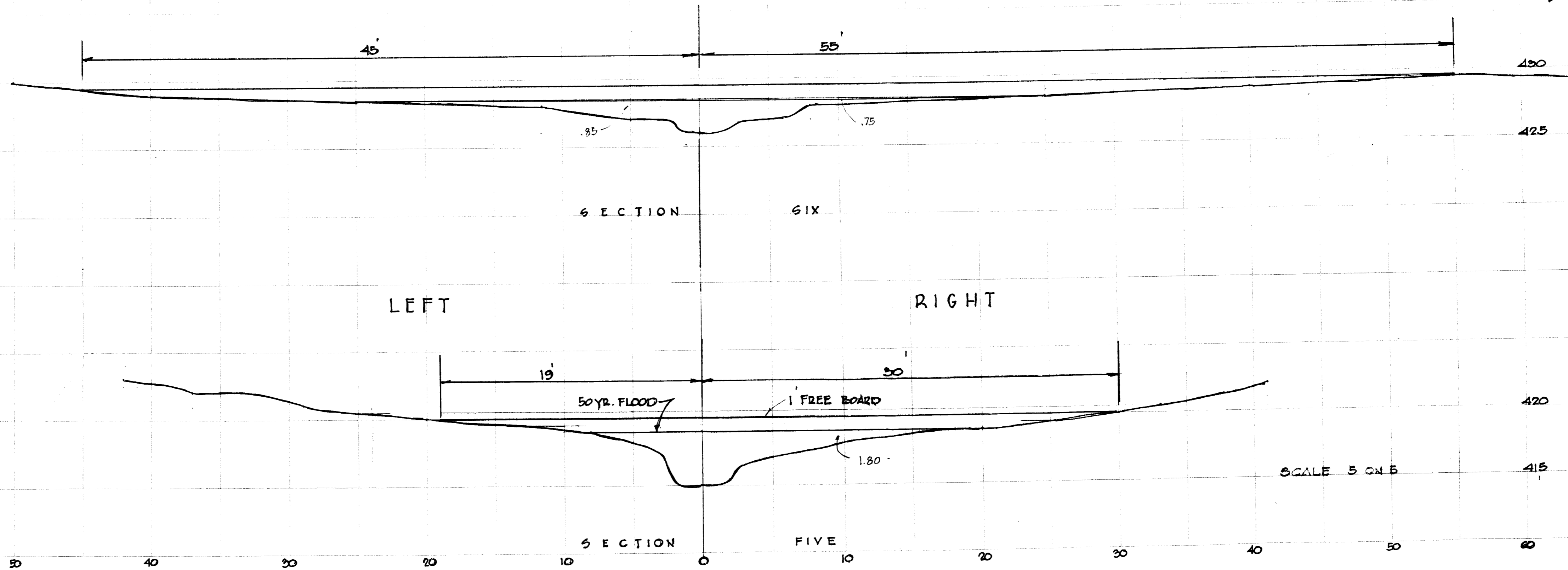
SCALE 50:1



Richard P. Browne
RICHARD P. BROWNE

RICHARD P. BROWNE CONSULTING ENGINEER COLUMBIA, MARYLAND		
Key Date	Rev. No.	Revision
COLUMBIA		
5th ELECTION DIST HOWARD COUNTY, MD.		
OWNER AND DEVELOPER HOWARD RESEARCH AND DEVELOPMENT THE VILLAGE OF CROSS KEYS - BALTIMORE		
PROJECT AREA VILLAGE OF HARPER SECTION 2 ROBBITS CREEK		
PROJECT TITLE FLOOD PLAIN SECTION		
Des. By	T.S.	Scale
Drawn By	T.S.	Date
Calc. By	T.S.	Approved
AS SHOWN 5-23-00		

APPROVED
DIVISION OF
LAND DEVELOPMENT
OFFICE OF
PLANNING
OF HOWARD COUNTY
DATE: *5/23/00*



A = 40
WP = 50
HR = 80
SL = 2.6
D = .04
V = 5.1
Q = 20
Q REQ. A

A = 45
WP = 30
HR = 1.5
SL = 2.6
D = .04
V = 7.8
Q = 55
Q REQ. 56

SCALE 5 ON 5

#11