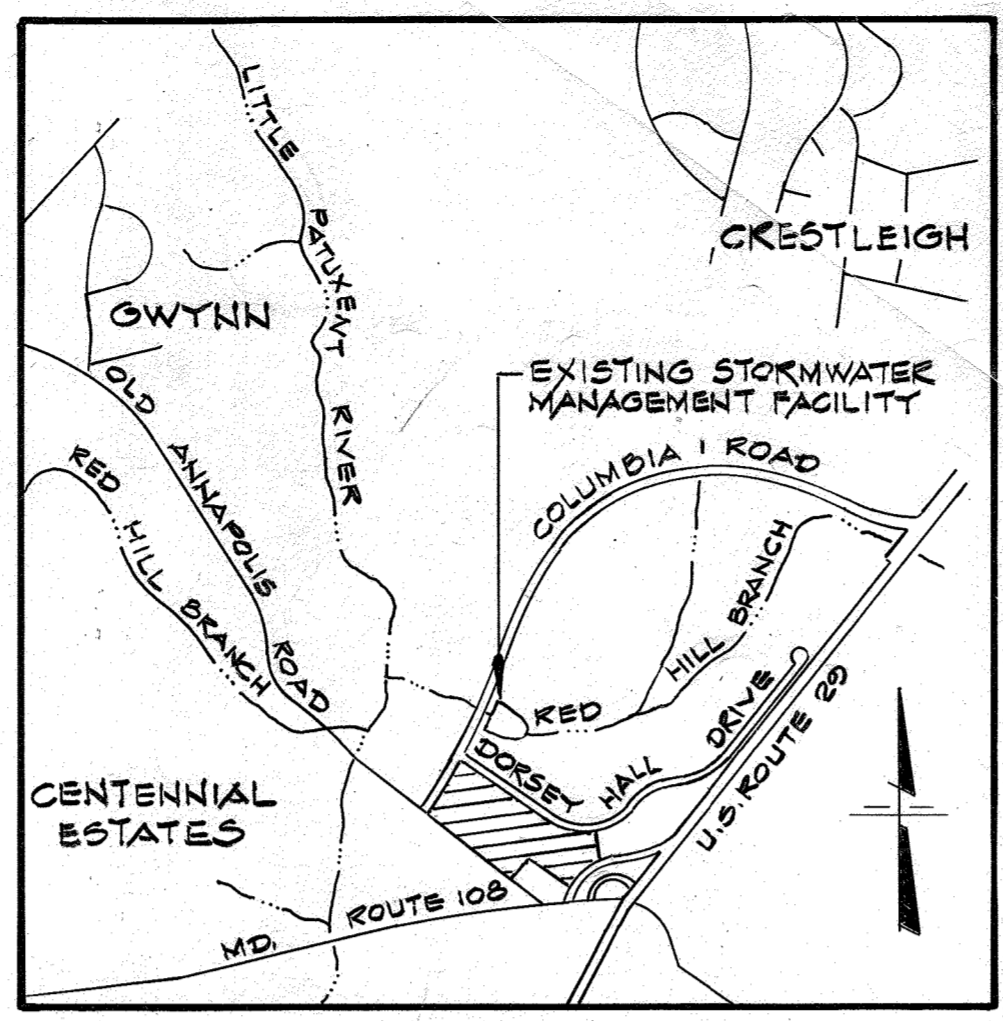


TYPICAL PARKING DETAILS
NO SCALE

- SITE ANALYSIS**
- PRESENT ZONING: SHOPPING CENTER (S.C.) AND PLANNED OFFICE RESEARCH (P.O.R.).
 - TOTAL AREA OF SITE: --- 18.538 ACRES
 - A. S.C. = 10.000 ACRES
 - B. P.O.R. = 8.538 ACRES
 - PARKING DATA:
 - A. INTENDED USE OF STRUCTURES: SUPERMARKET, RETAIL STORES AND OFFICES.
 - B. TOTAL AREA FOR BUSINESS PURPOSES: 82,200 S.F.
 - 1. SUPERMARKET - 36,000 S.F.
 - 2. RETAIL - 21,800 S.F.
 - 3. OFFICES - 24,400 S.F.
 - C. TOTAL NUMBER OF SPACES REQUIRED: 447 SPACES
 - 1. 1 SPACE/150 S.F. SUPERMARKET AREA 36,000/150 = 240 SPACES
 - 2. 1 SPACE/200 S.F. RETAIL AREA -- 21,800/200 = 109 SPACES
 - 3. 1 SPACE/250 S.F. OFFICE AREA -- 24,400/250 = 98 SPACES
 - 4. HANDICAPPED SPACES REQUIRED = 13 SPACES
 - D. TOTAL NUMBER OF SPACES PROVIDED: 497 SPACES
 - 1. REGULAR SPACES = 484
 - 2. HANDICAPPED SPACES = 13
 - LOT COVERAGE:
 - A. S.C.
 - 1. MAXIMUM ALLOWED = 30%
 - 2. PROPOSED = 1.43 AC./10.0 AC. = 14.3%
 - B. P.O.R.
 - 1. MAXIMUM ALLOWED = 35%
 - 2. PROPOSED = 0.57 AC./8.53 AC. = 6.7%
 - OPEN SPACE:
 - A. S.C. AND P.O.R.
 - 1. MINIMUM ALLOWED = 20%
 - 2. PROPOSED:
 - a. S.C. - 2.89 AC./10.0 AC. = 28.9%
 - b. P.O.R. - 6.37 AC./ 8.53 AC. = 74.7%
 - LANDSCAPED ISLANDS:
 - A. S.C. AND P.O.R.
 - 1. MINIMUM ALLOWED = 5%
 - 2. PROPOSED:
 - a. S.C. - 0.26 AC./2.63 AC. = 9.9%
 - b. P.O.R. - 0.02 AC./0.37 AC. = 5.4%

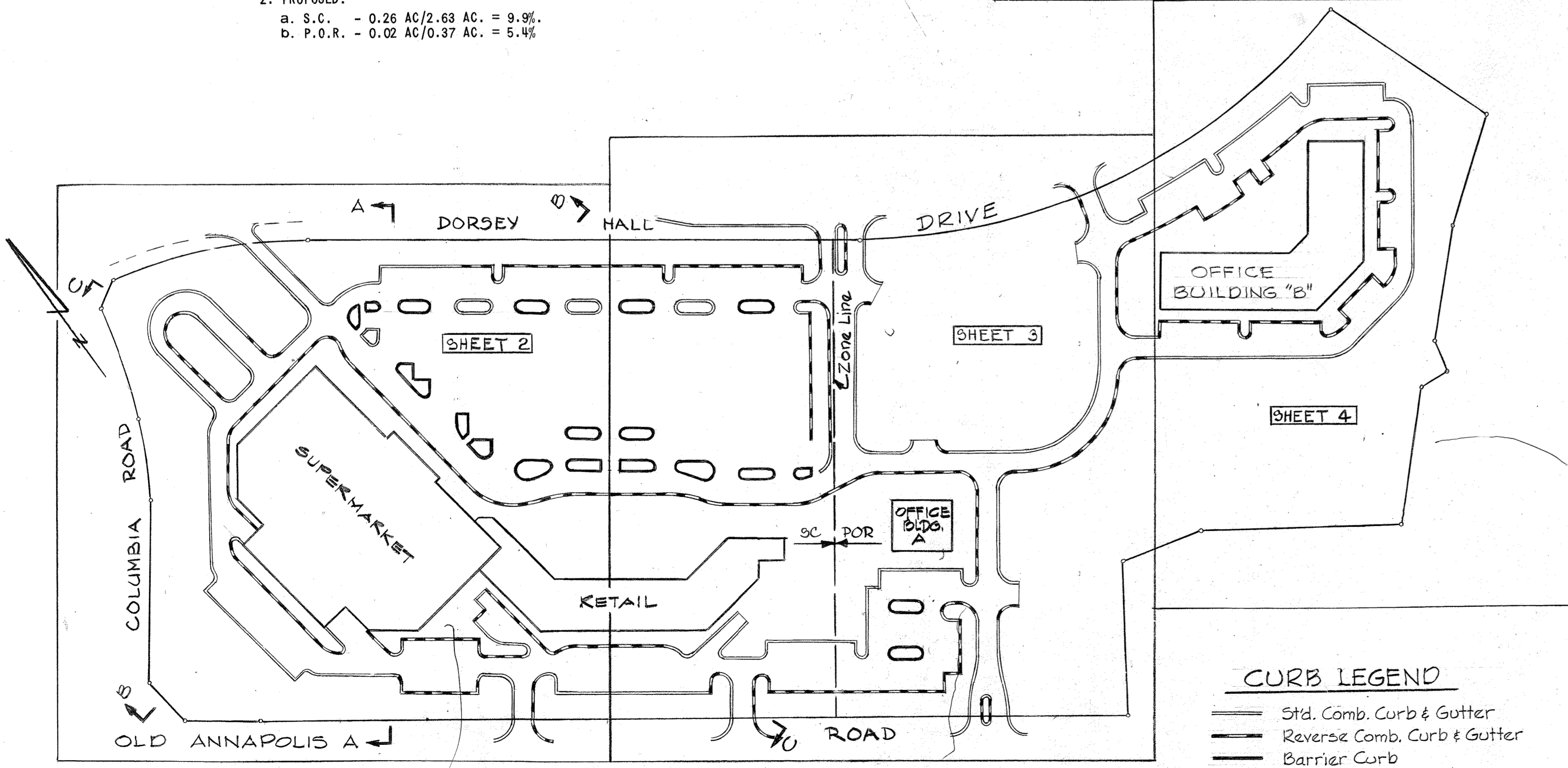


VICINITY MAP
SCALE: 1"=2000'

SHEET INDEX	
NO.	DESCRIPTION
1	TITLE SHEET
2	GRADING PLAN
3	GRADING PLAN
4	GRADING PLAN
5	PARKING LOT STAKEOUT DETAILS
6	ROAD STAKEOUT PLAN
7	ROAD DETAILS
8	DRAINAGE AREA MAP
9	STORM DRAIN PROFILES
10	STORM DRAIN PROFILES
11	SEDIMENT CONTROL PLAN
12	SEDIMENT CONTROL DETAILS
13	LIGHTING AND LANDSCAPE PLAN
14	CROSS-SECTIONS, DETAILS, WATER, SEWER AND STORM DRAIN PROFILES

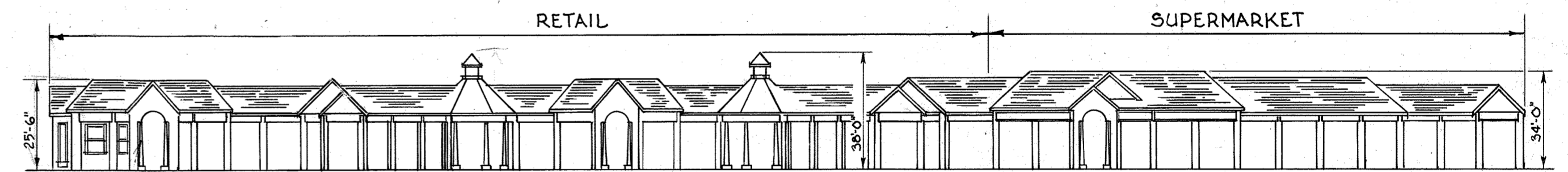
- GENERAL NOTES**
- RECORDING REFERENCES ARE PLATS 7920 AND 7927.
 - SEE ARCHITECTURAL PLANS FOR DETAILS OF PROPOSED BUILDINGS.
 - ALL SITE WORK CONSTRUCTION TO BE DONE IN ACCORDANCE WITH HOWARD COUNTY DESIGN MANUAL - VOLUME IX - STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION.
 - PUBLIC WATER AND PUBLIC SEWER TO BE UTILIZED.
 - ANY DAMAGE TO PUBLIC RIGHT-OF-WAY OR PAVING MUST BE CORRECTED AT THE DEVELOPER'S EXPENSE.
 - GRADES HAVE BEEN ESTABLISHED TO INSURE POSITIVE DRAINAGE.
 - SIDEWALKS SHALL BE SCORED OR OTHERWISE TEXTURED TO INDICATE TO BLIND PERSONS THE LOCATION OF DOORS AT BUILDINGS.
 - ONE HANDICAPPED PARKING SIGN SHALL BE PLACED AT EACH HANDICAPPED PARKING SPACE IN ACCORDANCE WITH REQUIREMENTS OF THE MARYLAND BUILDING CODE.
 - A STORMWATER MANAGEMENT FACILITY HAS BEEN CONSTRUCTED OFF-SITE AT COLUMBIA ROAD UNDER F85-10. (SEE VICINITY MAP) TO SERVE THIS PARCEL.
 - ALL EXISTING FACILITIES ADJACENT TO THIS SITE WERE CONSTRUCTED UNDER THE FOLLOWING: F85-10, F86-102, F87-143, 44-0900, 24-1281-D AND 24-1465-D.

- LEGEND**
- 300-- EXISTING CONTOUR (2' INTERVAL)
 - 380- PROPOSED CONTOUR (1' INTERVAL)
 - FF 000.0 PROPOSED FINISHED FLOOR ELEVATION
 - 380x0 PROPOSED SPOT ELEVATION
 - TC/BC TOP CURB/BOTTOM CURB
 - CONCRETE WALK
 - *-X-X-* EXISTING CURB (TO BE REMOVED)
 - ⊙ NUMBER OF STANDARD PARKING SPACES (9' WIDE)
 - BUILDING ENTRANCE
 - ← TRAFFIC FLOW
 - ♿ "RESERVED FOR HANDICAPPED PERSONS" (INDICATED)

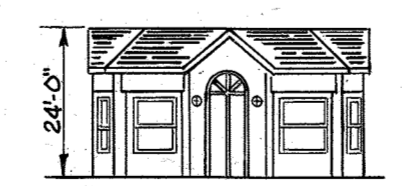


PLAN OF VILLAGE CENTER
SCALE: 1"=100'

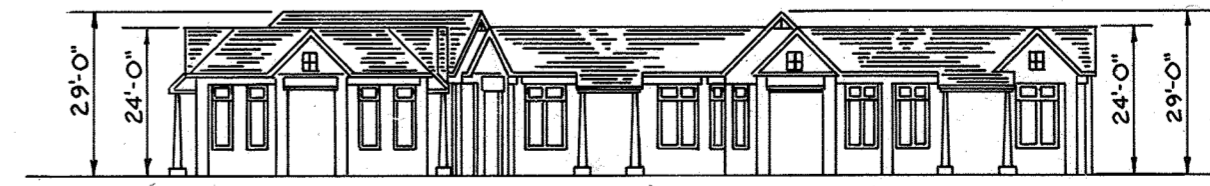
- CURB LEGEND**
- Std. Comb. Curb & Gutter
 - Reverse Comb. Curb & Gutter
 - Barrier Curb



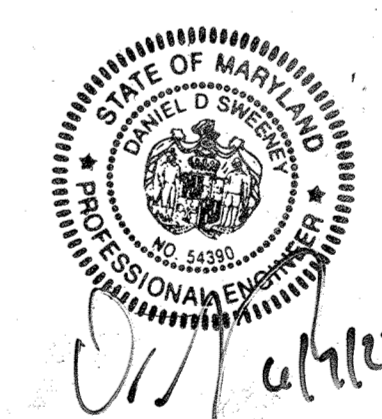
PROFILE - RETAIL & SUPERMARKET
No Scale



PROFILE OFFICE BUILDING 'A'
No Scale



PROFILE OFFICE BUILDING 'B'
No Scale



Revisions by GLW
PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND
LICENSE NO. 54390
EXPIRATION DATE: May 14, 2025

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.
COUNTY HEALTH OFFICER
DATE: 10-14-88

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.
DIRECTOR
DATE: 10-6-88

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
PLANNING DIRECTOR
DATE: 10-20-88

CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT
DATE: 10-17-88

APPROVED
PLANNING BOARD
OF HOWARD COUNTY
DATE: 8-31-88
LWS

OWNER AND DEVELOPER
THE HOWARD RESEARCH AND DEVELOPMENT LAND COMPANY
10275 LITTLE PATUXENT PARKWAY
COLUMBIA, MARYLAND 21043

WHITMAN, REARDT AND ASSOCIATES - ENGINEERS
2315 SAINT PAUL STREET
BALTIMORE, MARYLAND 21218

Kenneth A. McCord
KENNETH A. MCCORD, P.E., NO. 1974

SUBDIVISION NAME: DORSEY HALL		SECTION/AREA: 2 - 4	LOT NO. PARCEL "L"
PLAT: 7326 & 7327	BLOCK: 3+4	ZONE: SC-POR	TAX/ZONE MAP: 30
ELEC. DIST. 2		CENSUS TR. 6023.01	
WATER CODE: F10		SEWER CODE: 575000	

ADDRESS CHART

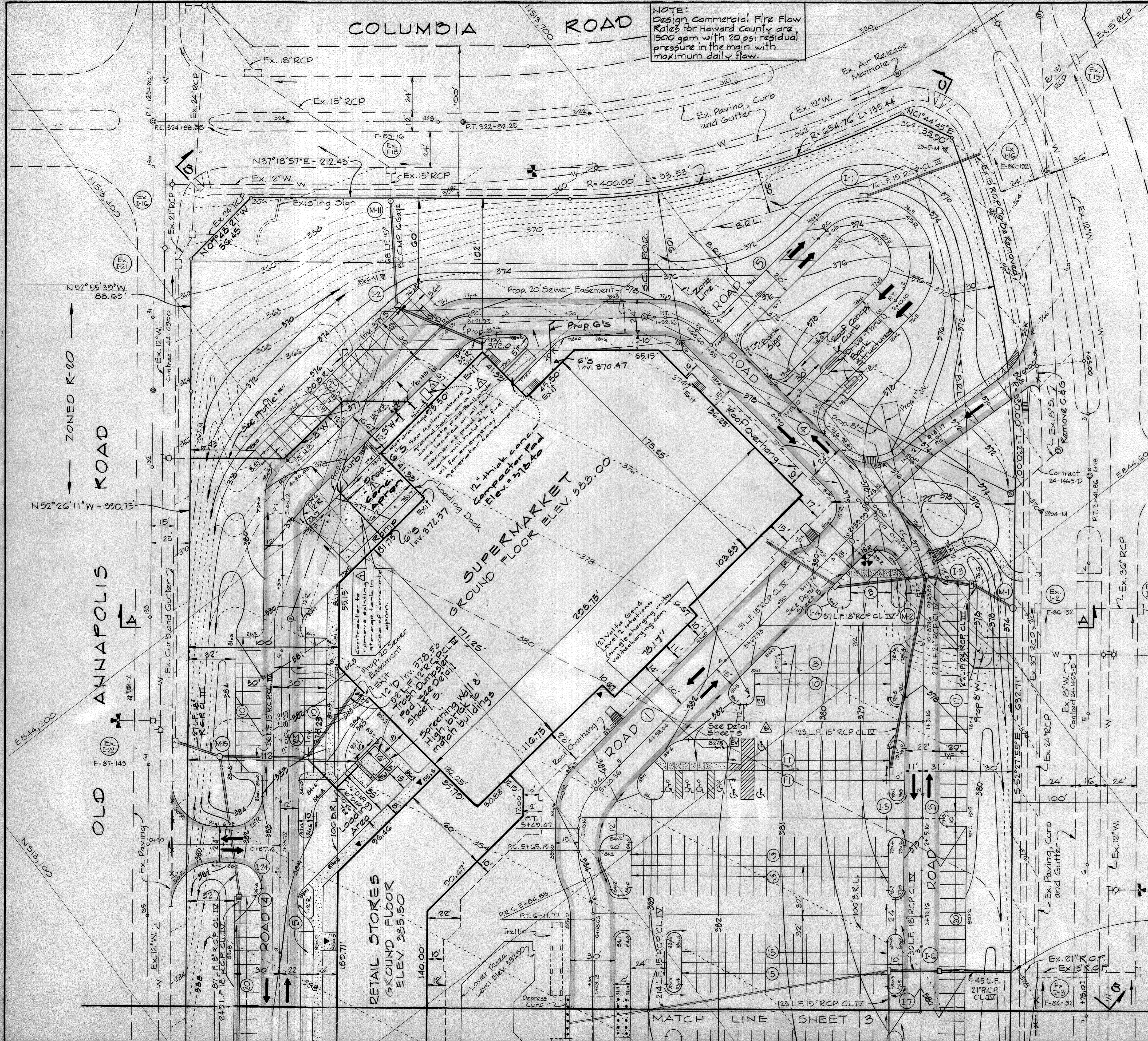
PARCEL	STREET ADDRESS
Supermarket	4715 Dorsey Hall Drive
Retail Stores	4725 Dorsey Hall Drive
Office Bldg A	4745 Dorsey Hall Drive
Office Bldg B	4785 Dorsey Hall Drive

NO.	DATE	DESCRIPTION OF REVISION
3	9/12/88	Minor Adjustments
2	9/1/88	As per Planning & DPW Comments
1	7/25/88	As per Planning, DPW and SC3 Comments

DORSEY HALL
-SITE DEVELOPMENT PLAN-
SECTION 2 AREA 4
PARCEL "L"
(VILLAGE CENTER)
TITLE SHEET

SHEET 1 OF 14
ELECTION DISTRICT NO. 2
HOWARD COUNTY, MARYLAND
DATE: 4/25/88

REF: S-78-20, P-84-27, P-86-26, F-85-16, F-86-192, F-87-143, VP-87-97 & F-88-241
SCALE: As Shown
TAX MAP 30



NOTE:
 Design Commercial Fire Flow Rates for Howard County are 1500 gpm with 20 psi residual pressure in the main with maximum daily flow.

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS,
 HOWARD COUNTY HEALTH DEPARTMENT
 COUNTY HEALTH OFFICER *[Signature]* DATE 10-21-88

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE STORM
 DRAINAGE SYSTEMS AND PUBLIC ROADS
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.
 DIRECTOR *[Signature]* DATE 10-4-88

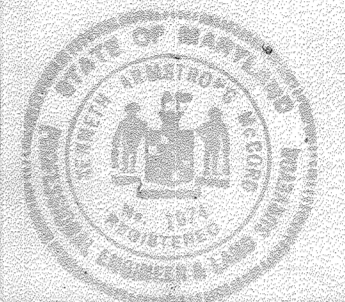
APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
 PLANNING DIRECTOR *[Signature]* DATE 10-20-88

CHIEF, BUREAU OF ENGINEERING *[Signature]* DATE 10-4-88

CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT *[Signature]* DATE 10-20-88

APPROVED
 PLANNING BOARD
 OF HOWARD COUNTY
 DATE 8-31-88
 LKS

Professional Certification
 (For revision only) I hereby certify that these plans were prepared or approved by me, and that I am a duly licensed Professional Engineer under the laws of the State of Maryland.
[Signature]
 License No. 101613
 Carl G. Schick, P.E.



OWNER AND DEVELOPER
 THE HOWARD RESEARCH AND DEVELOPMENT LAND COMPANY
 10275 LITTLE PATUXENT PARKWAY
 COLUMBIA, MARYLAND - 21043

WHITMAN, REARDUAT AND ASSOCIATES - ENGINEERS
 2315 SAINT PAUL STREET
 BALTIMORE, MARYLAND - 21218
[Signature]
 KENNETH A. MCCORD, P.E. NO. 1974

NOTE:
 THE WATER AND SEWER DESIGNATED AS "PROPOSED" WILL BE BUILT UNDER CONTRACT 24-1833-D
 THE STORM DRAINS DESIGNATED AS "PROPOSED" WILL BE BUILT UNDER F-88-241

Date	Revision	By
10/13/88	Added 500 Gallon above ground storage tank as called for the	D.E.V.
	existing underground tanks to be removed.	
10/14/88	Added 2 EV charging stations	GLW

SUBDIVISION NAME: DORSEY HALL		SECT./AREA 2 - 4	LOT NO. PARCEL L
PLAT 7826 & 7827	BLOCK 3+4	ZONE SC-POR	TAX/ZONE MAP 30
ELEC. DIST. 2		CENSUS TR. 6023.1	
WATER CODE F10		SEWER CODE 575000	

- Note:**
- See Sheet 6 for Road Stakeout information.
 - Curb fillet radii are 5' unless otherwise noted.
 - Spot elevations are top of curb unless otherwise noted.
 - For private water and sewer construction, see General Notes on Sheet 1 of Contract 24-1833-D (public water and sewer).

STORM DRAIN STRUCTURE SCHEDULE

NO.	TYPE	TOP EL.	INV. IN.	INV. OUT.	LOCATION
I-1	A-5 Inlet (Width 25) S.D. 4.01	374.10	-	367.17	inlet 12.55' Left of Sta. 1+32.07
I-2	A-5 Inlet (Width 25) S.D. 4.02	376.60	-	362.25	inlet 31.92' Right of Sta. 3+55
I-3	A-5 Inlet (Width 25) S.D. 4.01	376.60	369.23	368.98	See Plan and Profile
I-4	A-5 Inlet (Width 25) S.D. 4.01	380.00	375.27	375.07	inlet 16.92' Left of Sta. 3+15
I-5	A-10 Inlet (Width 25) S.D. 4.02	378.90	-	373.86	inlet 19.08' Right of Sta. 1+23.16
I-6	"S" Inlet S.D. 4.22	379.70	371.28	371.03	inlet 11' Left of Sta. 3+15.16
I-7	A-10 Inlet (Width 25) S.D. 4.02	380.20	375.24	373.72	inlet 19.08' Right of Sta. 3+15.16
M-1	Standard Manhole G5.01	372.30	364.55	360.43	See Plan and Profile
M-2	Standard Manhole G5.01	377.00	371.33	371.08	inlet 2' Left of Sta. 0+57
M-11	Standard Manhole G5.01	357.50	352.96	351.86	See Plan and Profile
M-15	Standard Manhole G5.01	384.50	374.00	370.00	inlet 4.5' Right of Sta. 6+72
I-24	"S" Comb. Inlet S.D. 4.92	383.10	375.40	375.20	inlet 20' Right of Sta. 7+64.80
M-15A	Standard Manhole G5.01	383.00	377.90	377.80	inlet 17' Left of Sta. 6+72

NO.	DATE	DESCRIPTION OF REVISION
1	6-1-88	Added fuel tank on concrete apron
2	3-31-87	Added B.R.L. Revised grading rear of Supermarket
3	3-31-87	Added Drive Thru Bank Bldg. Storm Drain Elevation
4	2-12-88	Minor Adjustments
5	2-1-88	As per Planning and DPW Comments
6	8-8-88	Adjusted Entrance Ramp
7	7-25-88	As per Planning, DPW and S.G.S. Comments

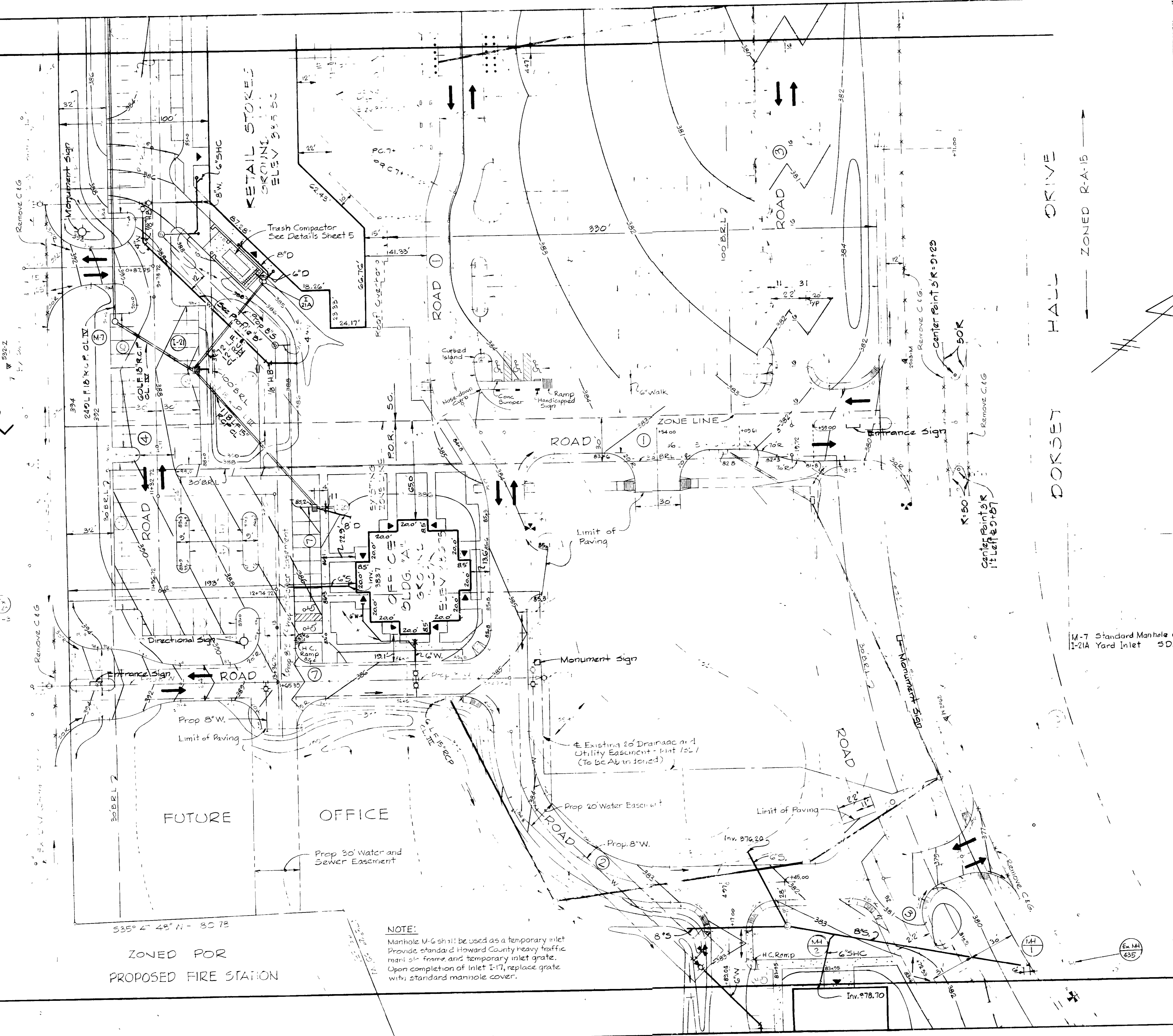
DORSEY HALL
 -SITE DEVELOPMENT PLAN
 SECTION 2 AREA 4
 PARCEL "L"
 (VILLAGE PLAN)
GRADING PLAN
 SHEET 2 OF 14

ELECTION DISTRICT NO. 2
 HOWARD COUNTY, MARYLAND

DATE: 4/25/88 SCALE: 1" = 30'

Note:
 Remove temporary bulkhead and connect to existing 21" R.O.P., see Profile on Sheet 10

ANNAPOLIS ROAD
 OLD ANNAPOLIS ROAD
 ZONED R-20
 ZONED B-1



ZONED FOR PROPOSED FIRE STATION

NOTE:
 Manhole M-6 shall be used as a temporary inlet. Provide standard Howard County heavy traffic manhole frame and temporary inlet grate. Upon completion of Inlet I-17, replace grate with standard manhole cover.

APPROVED
 COUNTY HEALTH DEPARTMENT
 10/17/88
 DIRECTOR
 10/16/88
 CHIEF BUREAU OF ENGINEERING
 10/4/88
 APPROVED HOWARD COUNTY OFFICE OF PLANNING AND ZONING
 10/20/88
 PLANNING DIRECTOR
 CHIEF DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT
 1/7/88

OWNER AND DEVELOPER
 THE HOWARD RESEARCH AND DEVELOPMENT LAND COMPANY
 10275 LITTLE PATUXENT PARKWAY
 COLUMBIA, MARYLAND
 WHITMAN REQUARDT AND ASSOCIATES
 ENGINEERS
 2315 SAINT PAUL STREET
 BALTIMORE, MARYLAND 21218
 Kenneth McLeod

M-7 Standard Manhole G5.01 383.80 378.63 378.43 & Manhole 25' Right & 56.10+16
 I-21A Yard Inlet 5D.4.14 385.00 381.70 380.87 See Plan & Profile

NO.	DATE	DESCRIPTION OF REV. S.W.
6	9/1/88	Added 2" water line
5	3/21/88	Added Sign Locations
4	3/12/88	Minor Adjustments
3	3/1/88	As per Planning and DPW Comments
2	8/9/88	Changed Public Sewer to Private
1	7/25/88	As per Planning, DPW and SCS Comments
0	7/8/88	DESCRIPTION OF REV. S.W.

SITE DEVELOPMENT PLAN
 SECTION 2 OF 3
 VILLAGE CENTER
 SHEET 14
 ELECTION DISTRICT NO. 7
 HOWARD COUNTY, MARYLAND
 DATE 4/25/88

SDP-88-192

MATCH LINE SHEET 3

ZONED R-A-15
DORSEY HALL

ZONED B-1
OLD ANNAPOLIS ROAD

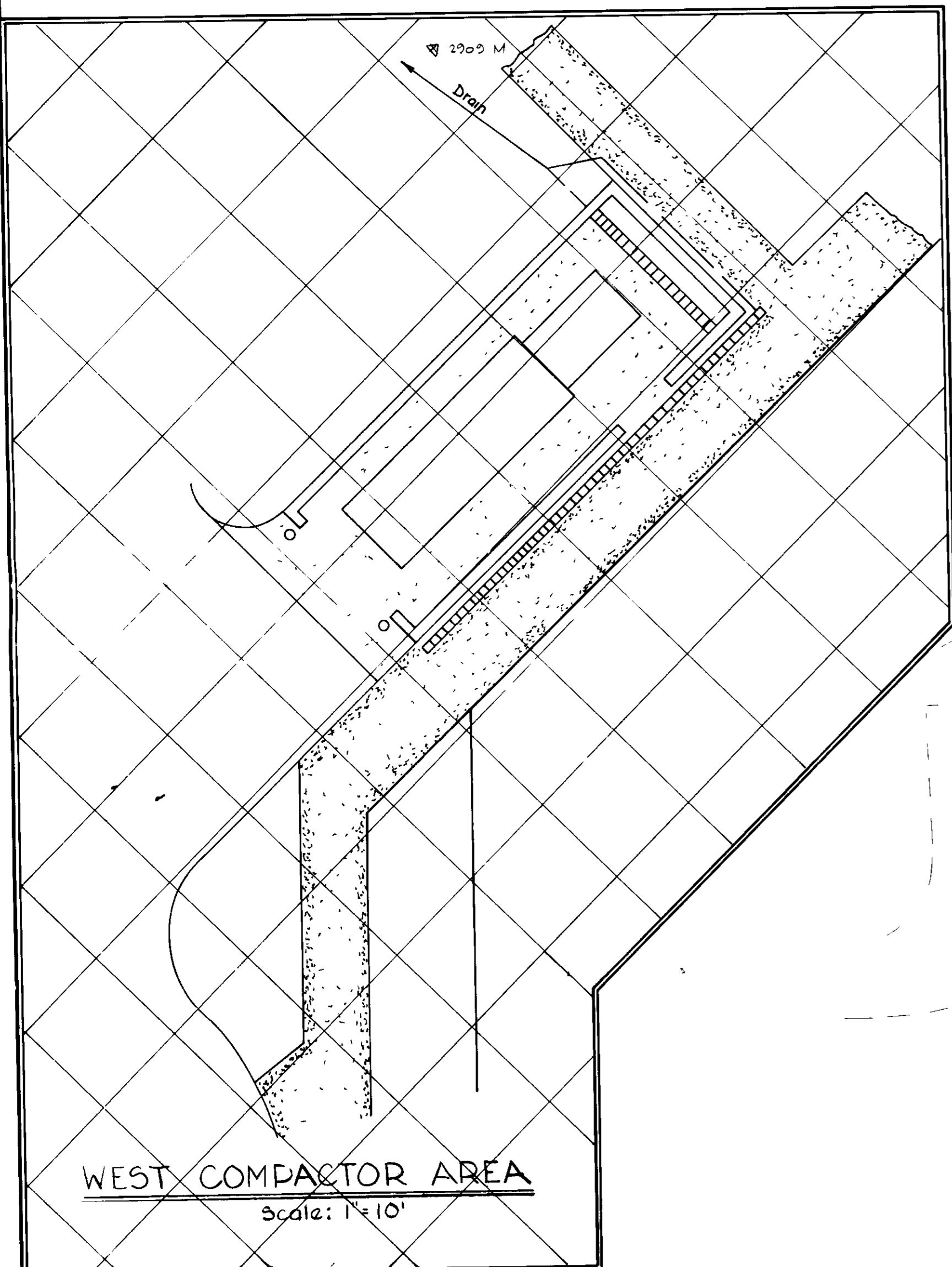
PROPOSED FIRE STATION
ZONED POR
HOWARD COUNTY, MARYLAND
LIBER 1710 FOLIO 633

OFFICE BUILDING "B"
FLOOR ELEV. 384.20

HOWARD COUNTY, MARYLAND
LIBER 1462 FOLIO 133
Existing Water Pumping Station
ZONED POR

PARCEL M
ZONED POR

U.S. ROUTE 29 AND
MARYLAND ROUTE 108
INTERCHANGE AREA



STORM DRAIN STRUCTURE SCHEDULE						
NO	TYPE	TOP EL.	INV. IN	INV. OUT	LOCATION	
I-11	A-E Inlet (Width 25') S.D. 401	382.00	376.53	376.29	Inlet 39' Left of Sta. 16+90.04	
I-12	75" Inlet S.E. 422	381.20	376.85	376.65	Inlet 25' Left of Sta. 16+90.04	
I-14	A-E Inlet (Width 25') S.D. 401	381.00	-	375.00	Inlet 30' Left of Sta. 10+51	

NOTE
THE WATER AND SEWER DESIGNATED AS "PROPOSED"
WILL BE BUILT UNDER CONTRACT 24-1833-D
THE STORM DRAINS DESIGNATED AS "PROPOSED" WILL
BE BUILT UNDER F-88-241

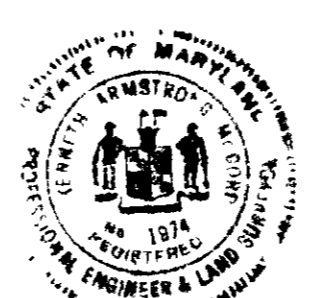
APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.
HOWARD COUNTY HEALTH DEPARTMENT
[Signature] 10-19-88
COUNTY HEALTH OFFICER DATE

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE
STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
[Signature] 10/18/88
DIRECTOR DATE

APPROVED, HOWARD COUNTY OFFICE OF PLANNING AND ZONING
[Signature] 10-20-88
PLANNING DIRECTOR DATE

[Signature] 11-17-88
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

8-31-88
LKS



WHITMAN, REQUARDT AND ASSOCIATES
ENGINEERS
2315 SAINT PAUL STREET
BALTIMORE, MARYLAND 21218
[Signature]
KENNETH A. McCORD, P.E. NO. 1974

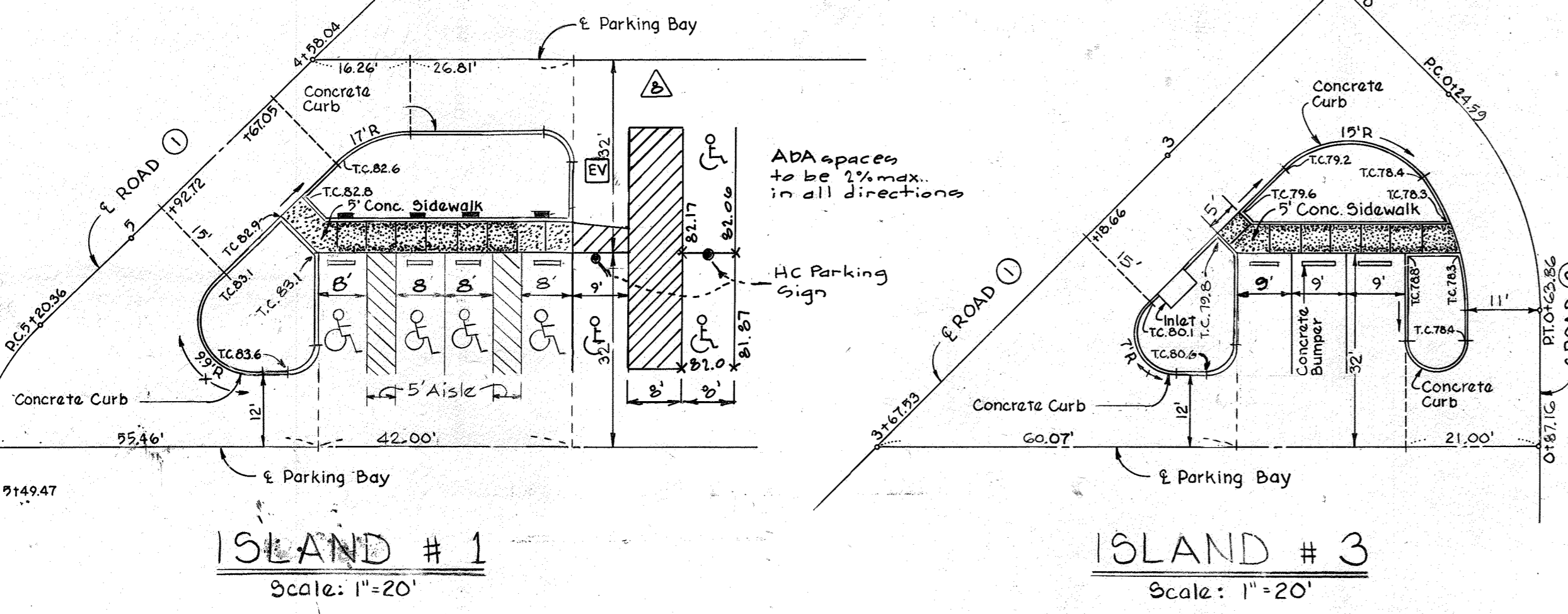
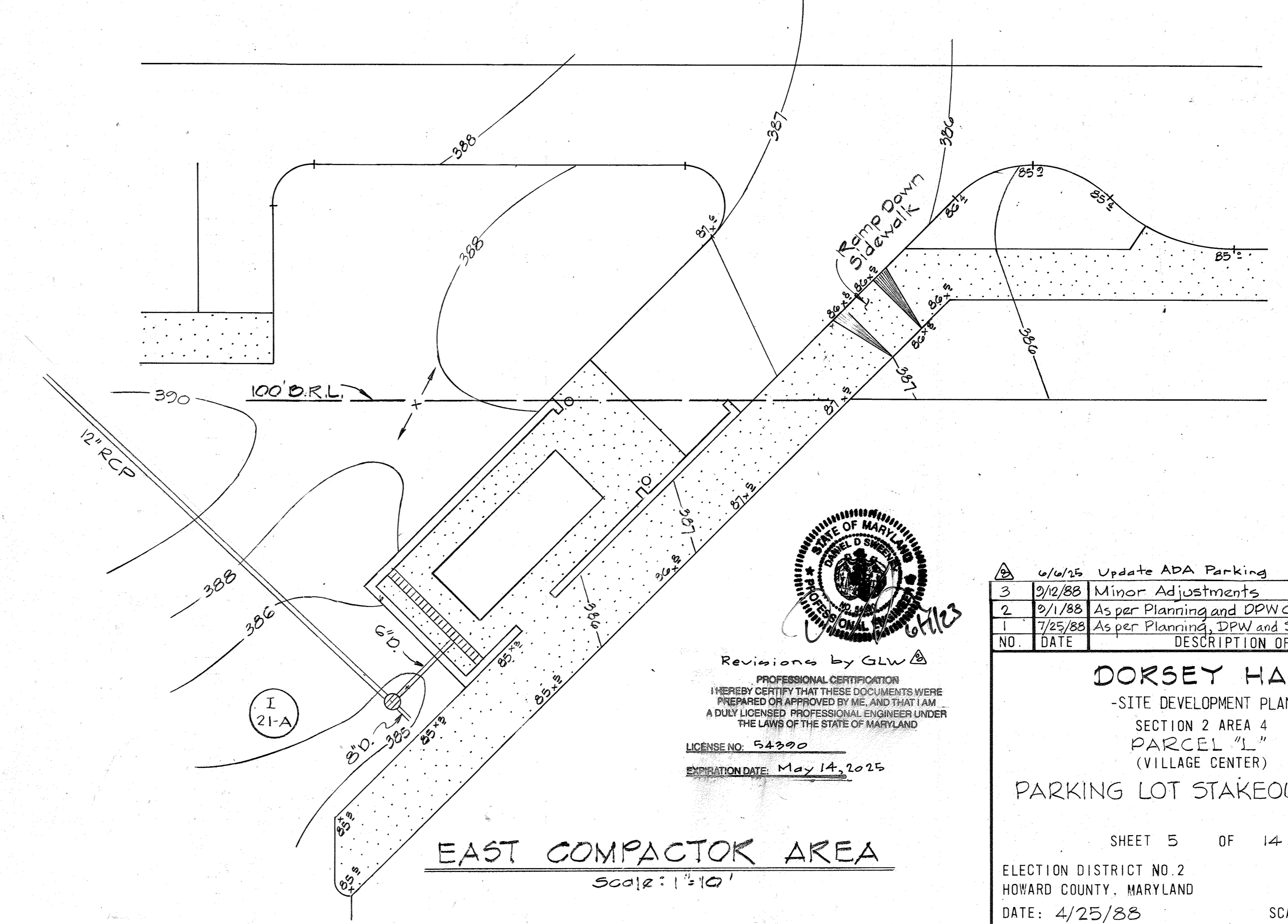
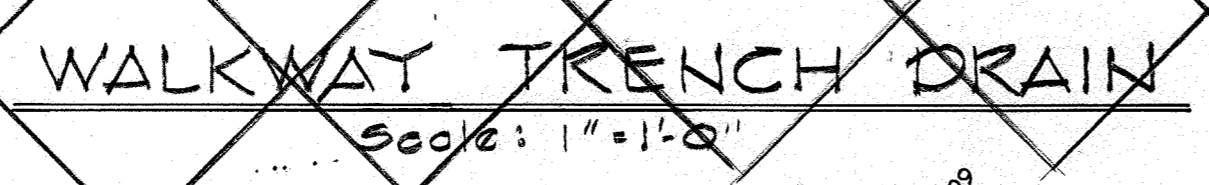
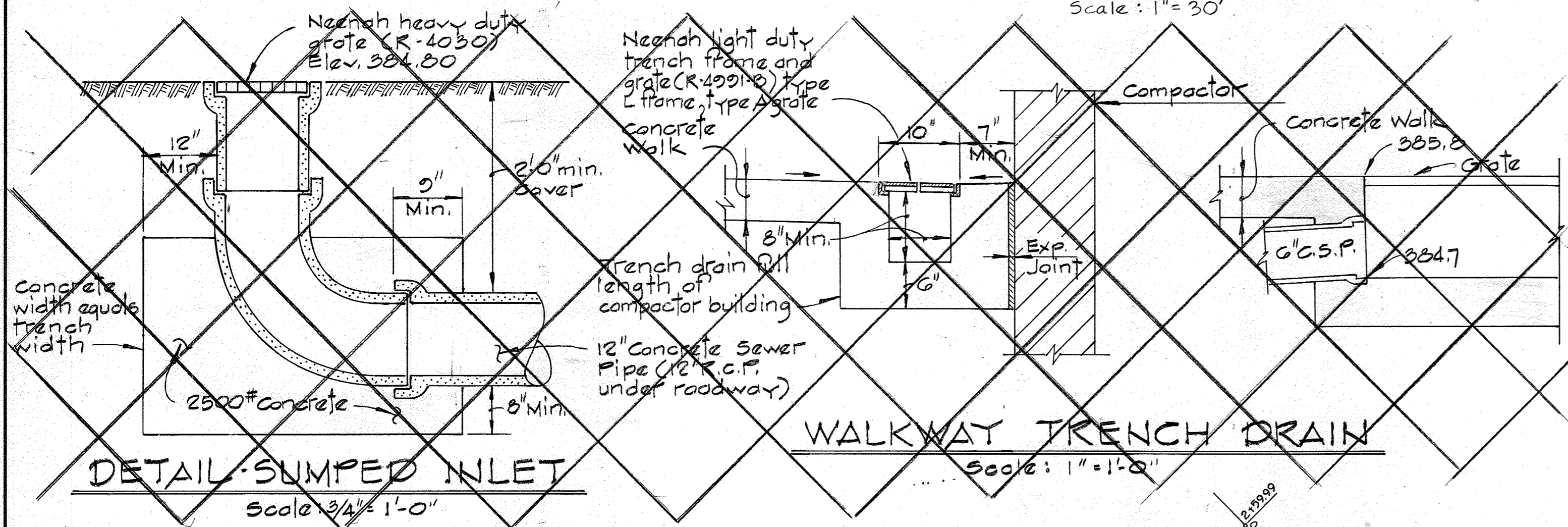
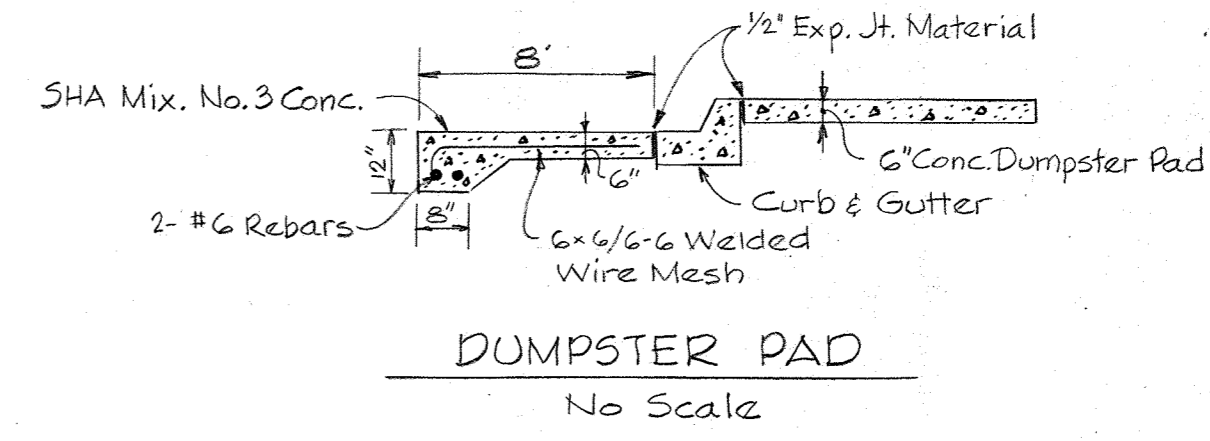
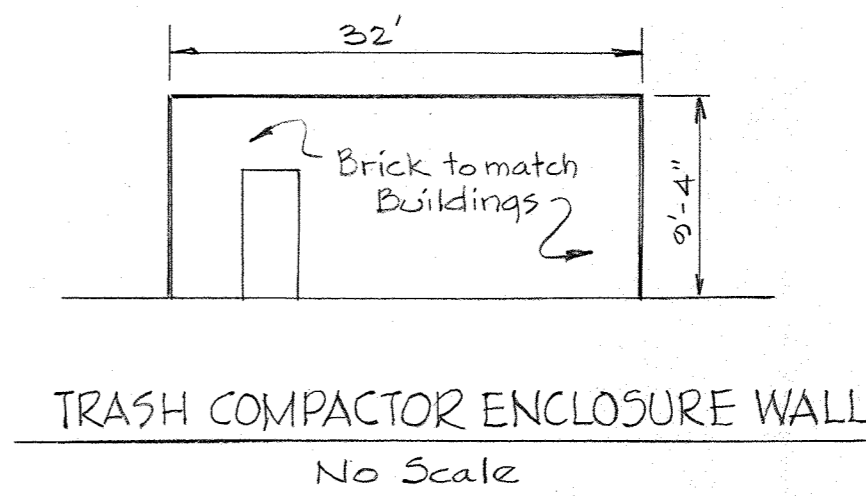
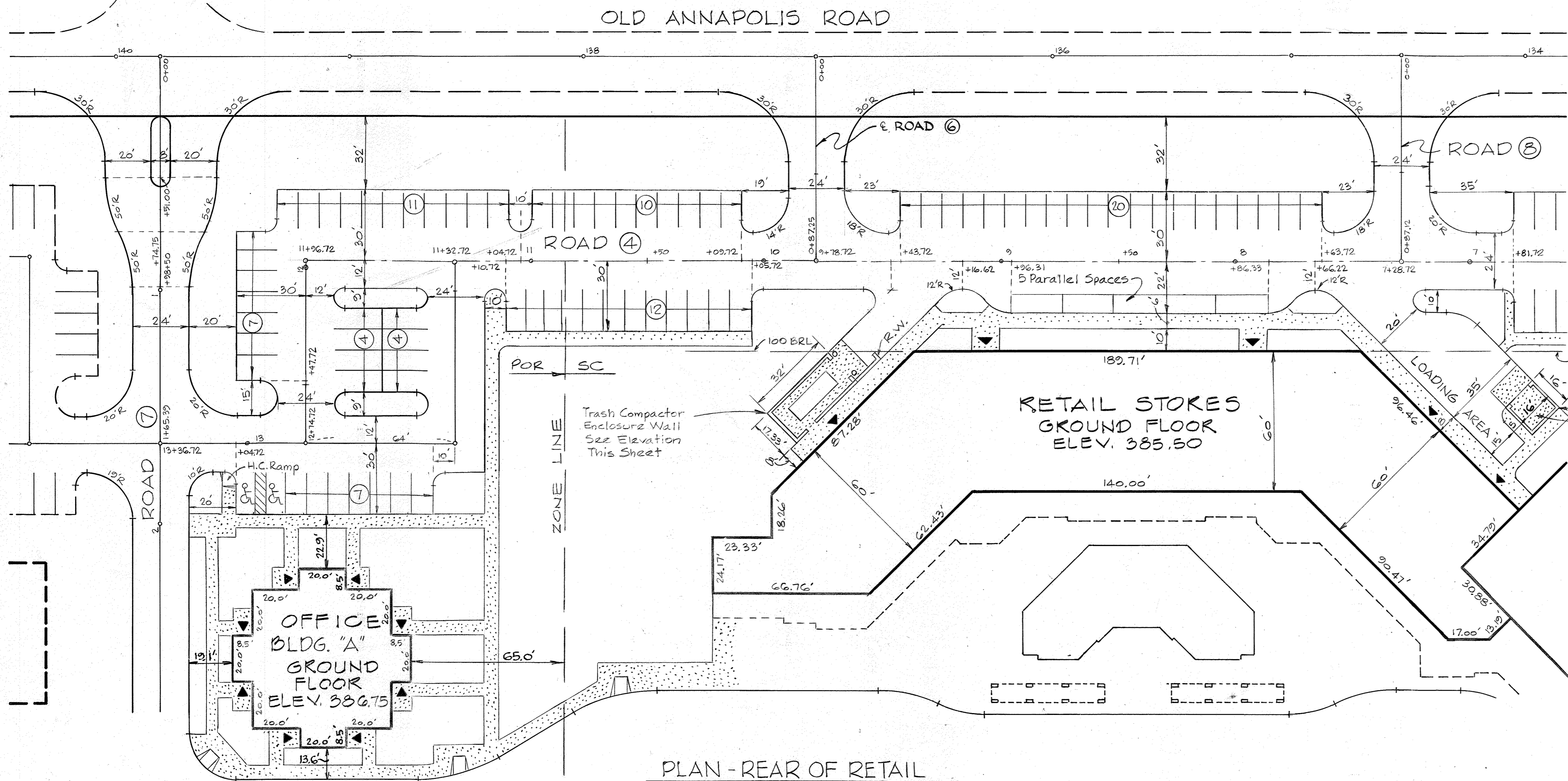
OWNER AND DEVELOPER
THE HOWARD RESEARCH AND
DEVELOPMENT LAND COMPANY
10275 LITTLE PATUXENT PARKWAY
COLUMBIA, MARYLAND 21044

NO	DATE	DESCRIPTION OF REVISION
3	9/12/88	Minor Adjustments
2	9/1/88	As per Planning and DPW Comments
1	7/25/88	As per Planning, DPW and SCS Comments

DORSEY HALL
-SITE DEVELOPMENT PLAN-
SECTION 2 AREA 4
PARCEL "L"
(VILLAGE CENTER)
GRADING PLAN
SHEET 4 OF 14

ELECTION DISTRICT NO 2
HOWARD COUNTY MARYLAND
DATE 4/25/88 SCALE 1" = 30'

SDP-88-192



APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS,
HOWARD COUNTY HEALTH DEPARTMENT.

James P. ... 10-14-88
COUNTY HEALTH OFFICER DATE

James P. ... 10-15-88
DIRECTOR DATE

James P. ... 10-4-88
CHIEF, BUREAU OF ENGINEERING DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

Christina ... 10-20-88
PLANNING DIRECTOR DATE

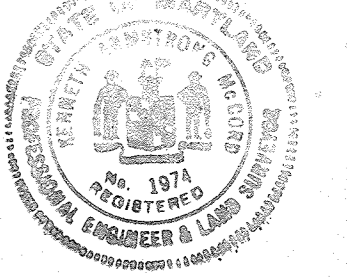
Mark J. ... 11-17-88
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

APPROVED
PLANNING BOARD
OF HOWARD COUNTY
DATE: 8-31-88
LCS

OWNER AND DEVELOPER
THE HOWARD RESEARCH AND
DEVELOPMENT LAND COMPANY
10275 LITTLE PATUXENT PARKWAY
COLUMBIA, MARYLAND 21043

WHITMAN, REQUARDT AND ASSOCIATES
-ENGINEERS-
2315 SAINT PAUL STREET
BALTIMORE, MARYLAND-21218

Kenneth A. McCord
KENNETH A. MCCORD, P. E. NO. 1974



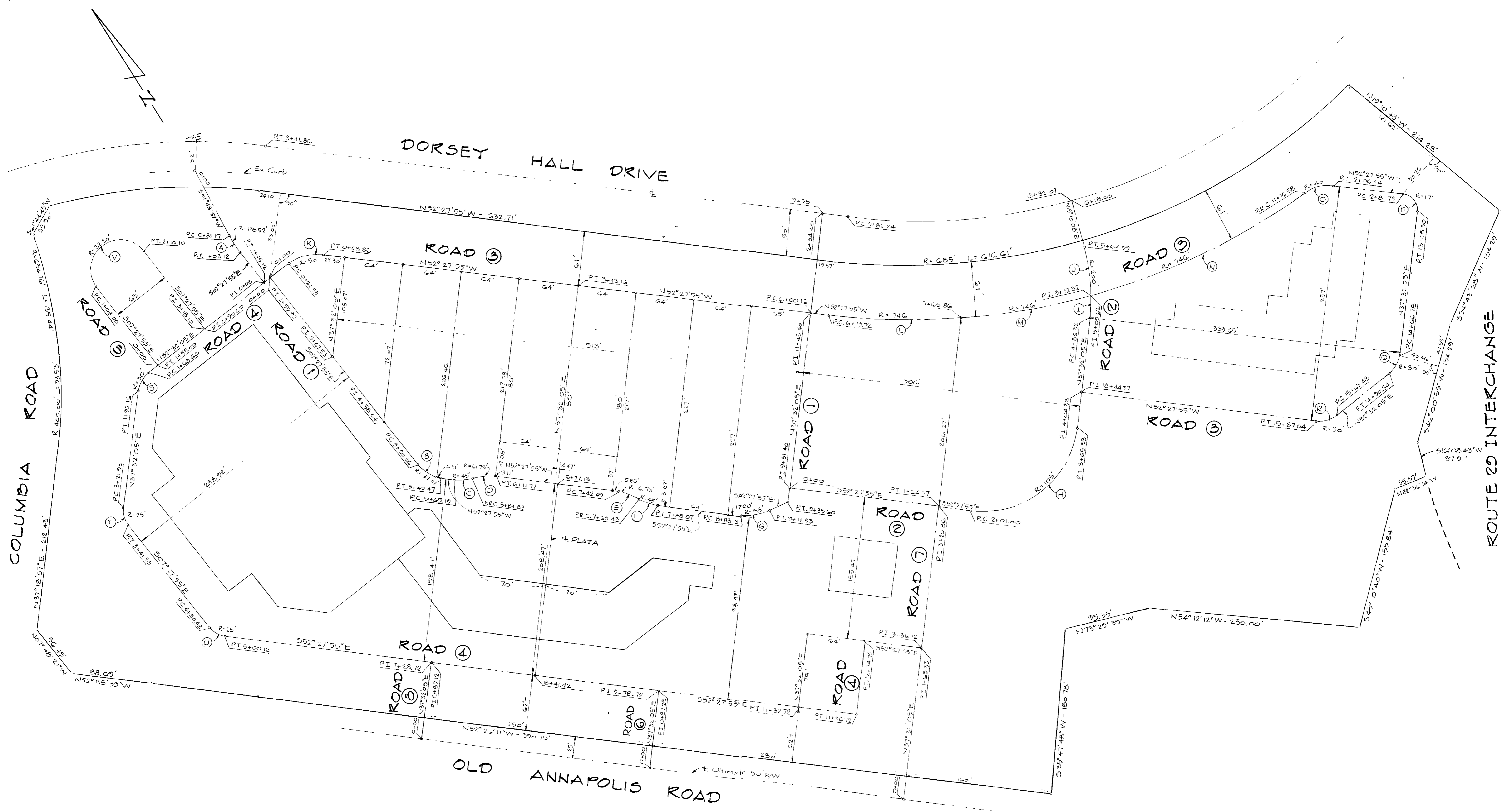
Revisions by GLW
PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE
PREPARED OR APPROVED BY ME, AND THAT I AM
A DULY LICENSED PROFESSIONAL ENGINEER UNDER
THE LAWS OF THE STATE OF MARYLAND.

LICENSE NO. 54390
EXPIRATION DATE: May 14, 2025

NO.	DATE	DESCRIPTION OF REVISION
3	6/2/88	Update ADA Parking by GLW
2	5/1/88	Minor Adjustments
1	7/25/88	As per Planning and DPW Comments
1	7/25/88	As per Planning, DPW and SCS Comments

DORSEY HALL
-SITE DEVELOPMENT PLAN-
SECTION 2 AREA 4
PARCEL "L"
(VILLAGE CENTER)
PARKING LOT STAKEOUT DETAILS

SHEET 5 OF 14
ELECTION DISTRICT NO. 2
HOWARD COUNTY, MARYLAND
DATE: 4/25/88 SCALE: As Shown



APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
 HOWARD COUNTY HEALTH DEPARTMENT

[Signature] 10-4-88
 COUNTY HEALTH OFFICER DATE

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE
 STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

[Signature] 10-5-88
 DIRECTOR DATE

[Signature] 10-4-88
 CHIEF BUREAU OF ENGINEERING DATE

APPROVED HOWARD COUNTY OFFICE OF PLANNING AND ZONING

[Signature] 10-20-88
 PLANNING DIRECTOR DATE

[Signature] 10-17-88
 CHIEF DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

8-31-88
 LKS

CURVE DATA													
NO.	RADIUS	Δ	ARC	TAN.	CHORD	CRD. ORG.	NO.	RADIUS	Δ	ARC	TAN.	CHORD	CRD. ORG.
ROAD ①													
A	135.52	09-16-52	21.95	11.00	21.93	502-49-29 E	N	746.00	20-17-49	264.26	133.53	262.89	585-05-09 E
B	37.07	45-00-00	23.11	15.36	28.37	529-57-54 E	O	40.00	42-46-09	29.86	15.66	29.17	573-50-59 E
C	45.00	25-00-00	19.64	9.98	19.48	564-57-55 E	P	17.00	90-00-00	26.70	17.00	24.04	507-27-55 E
D	61.73	25-00-00	26.94	13.68	26.72	564-57-55 E	Q	30.00	43-00-00	23.56	12.43	22.96	560-02-05 W
E	61.73	25-00-00	26.94	13.68	26.72	539-57-55 E	R	30.00	45-00-00	23.56	12.43	22.96	N74-57-55 W
F	45.00	25-00-00	19.64	9.98	19.48	539-57-55 E	S	30.00	45-00-00	23.56	12.43	22.96	560-02-05 W
G	55.00	30-00-00	28.80	14.74	28.47	567-27-55 E	T	25.00	45-00-00	19.64	10.36	19.13	515-02-05 W
ROAD ②													
H	105.00	30-00-00	164.93	105.00	148.49	N82-32-05 E	U	25.00	45-00-00	19.64	10.36	19.13	529-57-55 E
I	200.00	06-30-16	21.70	11.22	21.29	N34-16-57 E	V	32.50	180-00-00	102.10	-	-	-
J	200.00	15-51-41	55.37	27.86	55.19	N23-05-59 E	ROAD ③						
ROAD ④													
K	50.00	45-00-00	39.27	20.71	38.21	574-57-55 E	W	60.00	45-00-00	47.12	24.85	45.92	N60-02-05 E
L	746.00	11-13-25	146.13	73.30	145.90	558-04-37 E	X	30.00	45-00-00	23.56	12.43	22.96	574-57-55 E
M	746.00	11-14-55	146.46	73.46	146.22	569-18-47 E	Y	17.93	44-59-48	13.61	7.18	13.26	529-57-57 E

OWNER AND DEVELOPER
 THE HOWARD RESEARCH AND
 DEVELOPMENT LAND COMPANY
 10275 LITTLE PATUXENT PARKWAY
 COLUMBIA, MARYLAND 21043

WHITMAN REQUARDT AND ASSOCIATES
 ENGINEERS
 2315 SAINT PAUL STREET
 BALTIMORE MARYLAND 21218

[Signature]
 KENNETH A. McCORD, P.E. NO 1974

3	9/12/88	Minor Adjustments
2	9/1/88	As per Planning and DPW Comments
1	7/25/88	As per Planning, DPW and SCS Comments
NO	DATE	DESCRIPTION OF REVISION

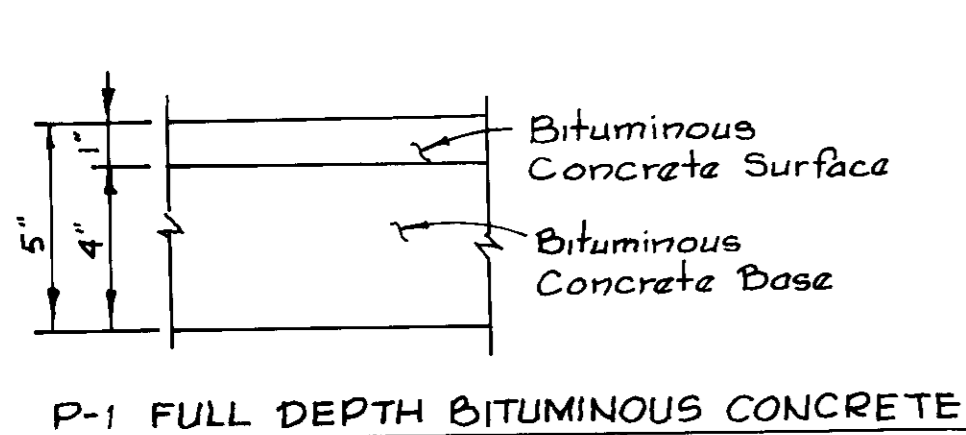
DORSEY HALL
 -SITE DEVELOPMENT PLAN-
 SECTION 2 AREA 4
 PARCEL "L"
 (VILLAGE CENTER)

ROAD STAKEOUT PLAN

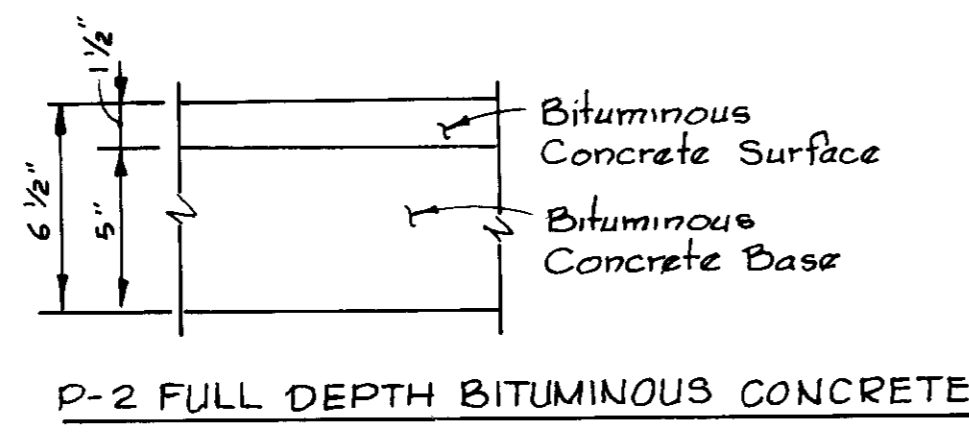
SHEET C OF 14

ELECTION DISTRICT NO 2
 HOWARD COUNTY, MARYLAND

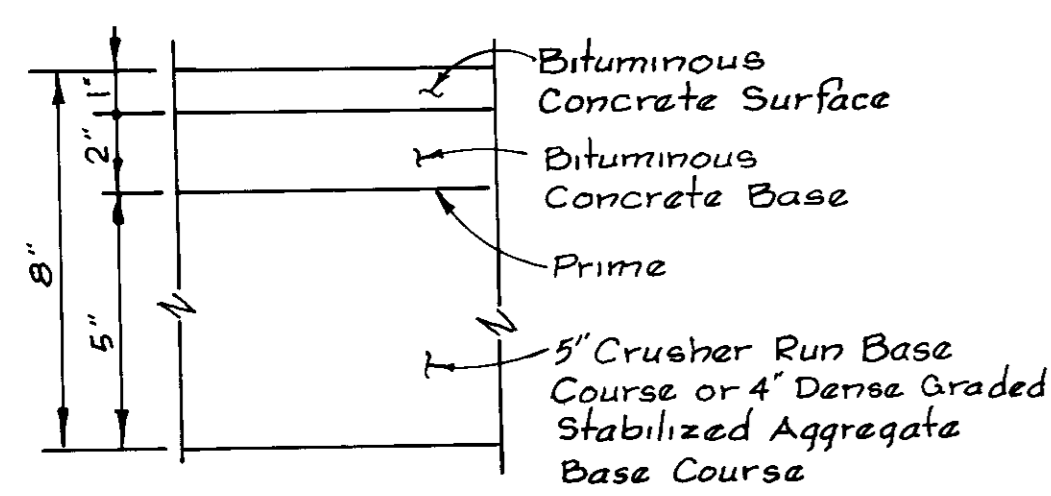
DATE 4/25/88 SCALE 1"=50'



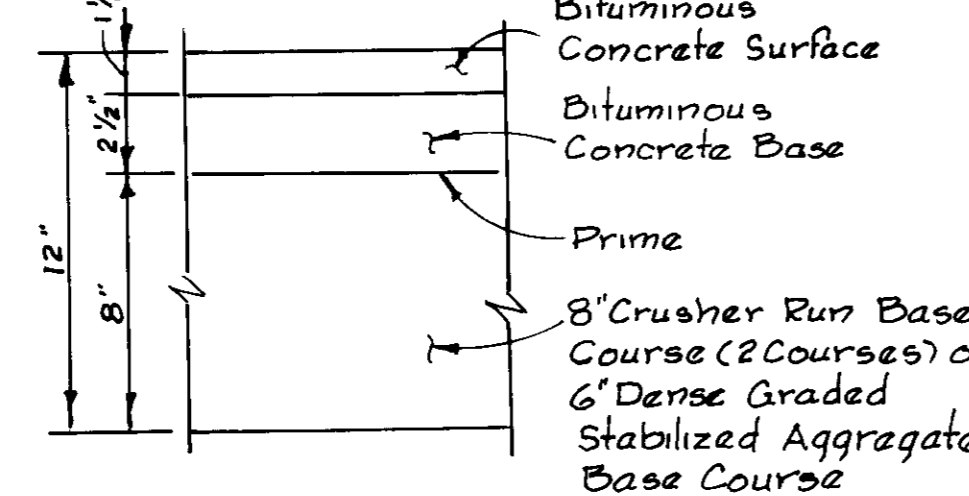
P-1 FULL DEPTH BITUMINOUS CONCRETE



P-2 FULL DEPTH BITUMINOUS CONCRETE

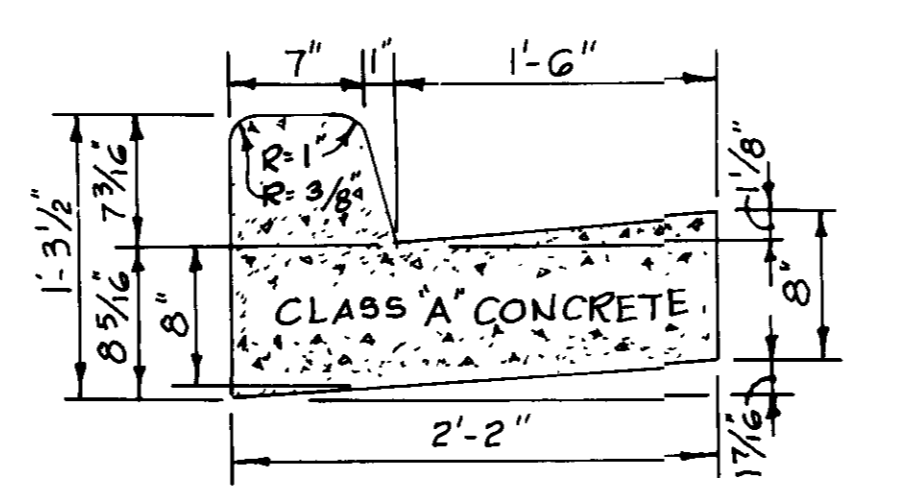


P-1 GRANULAR BASE (ALTERNATE)

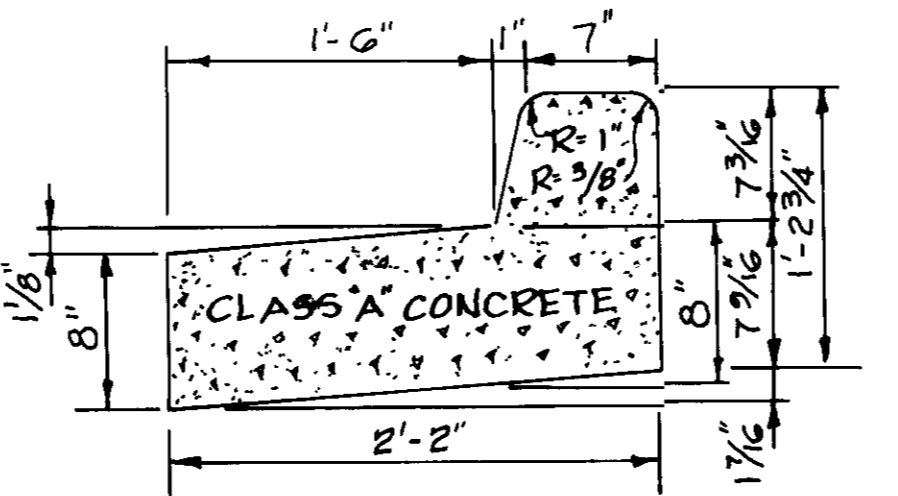


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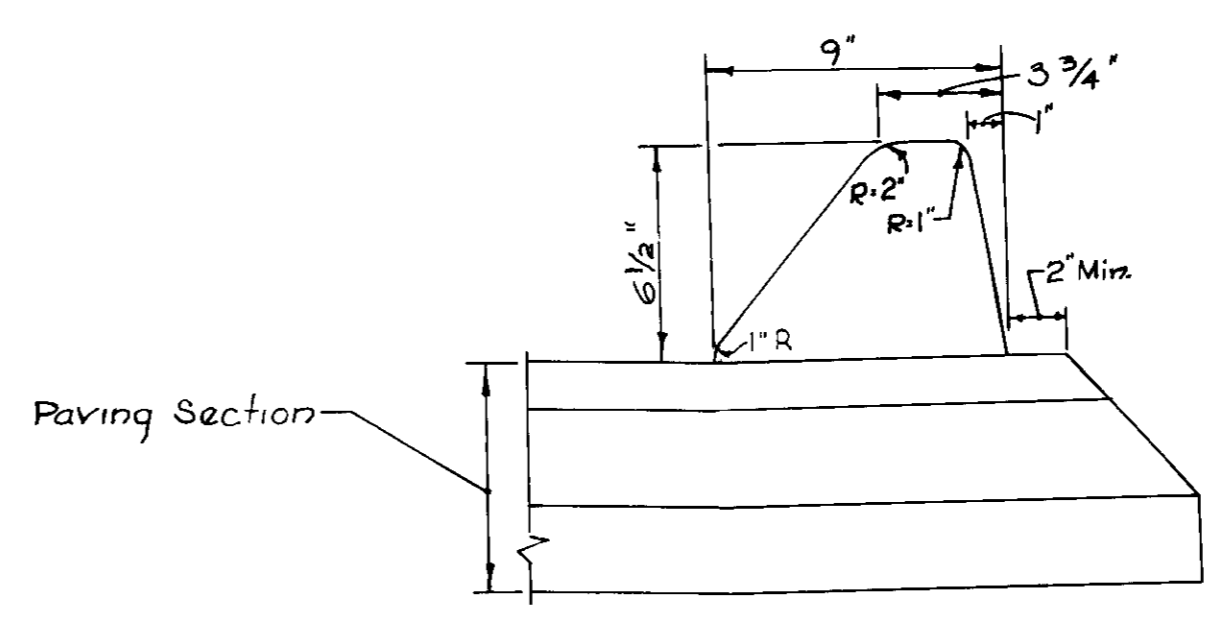
TYPICAL PAVING SECTIONS
NO SCALE



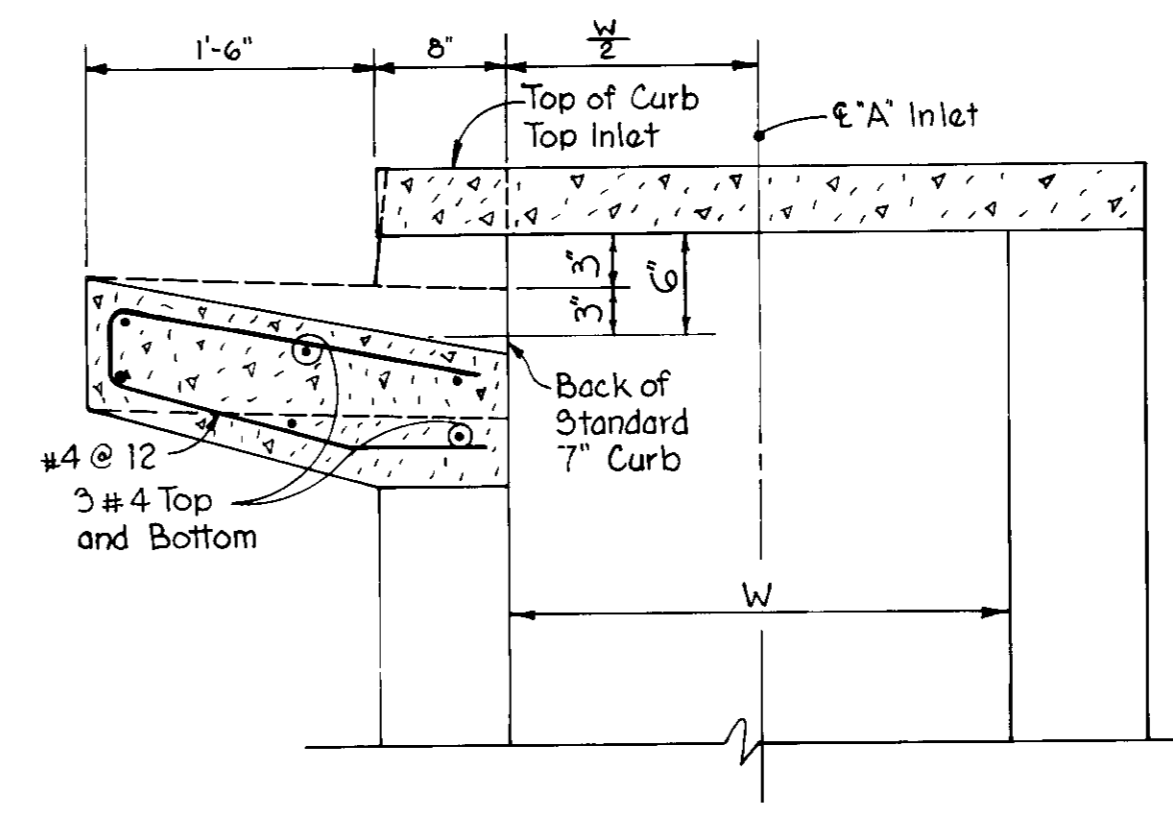
STANDARD 7\"/>



REVERSE 7\"/>

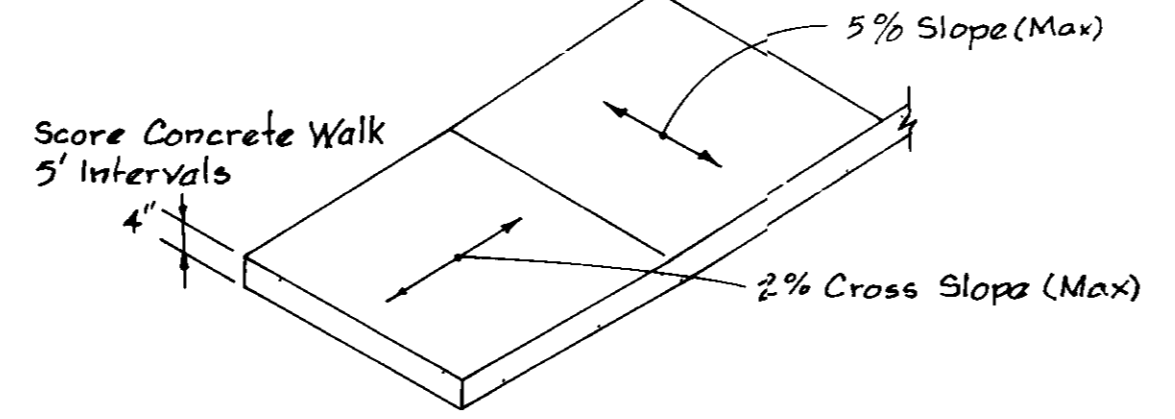


TEMPORARY BITUMINOUS CURB
NO SCALE

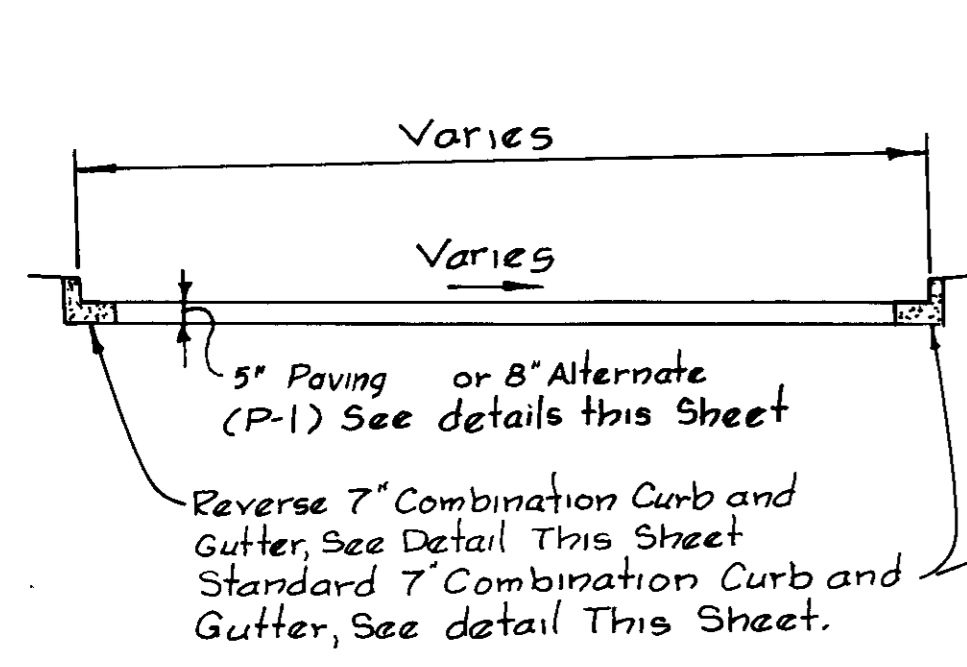


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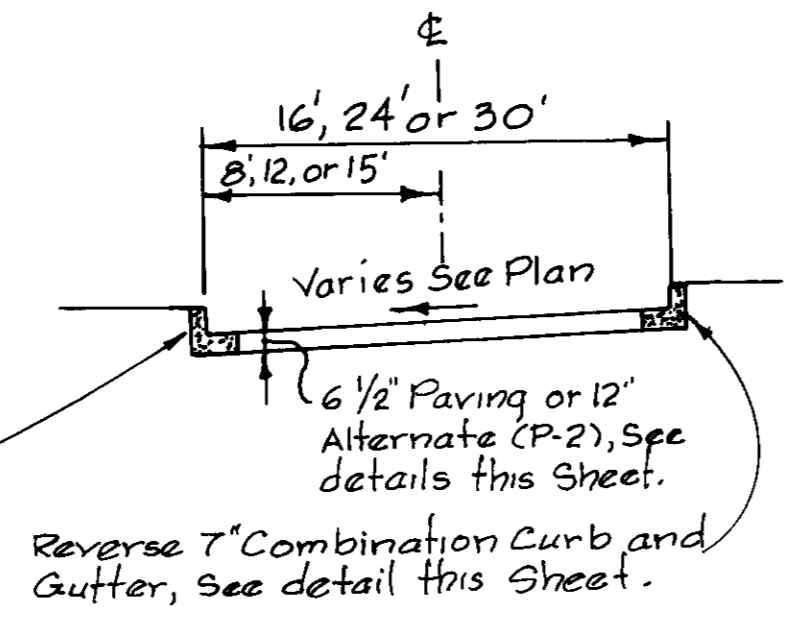
NOTE Provide Expansion Joint Wherever Sidewalk Abuts Curbs, Buildings, Stairs and Intersections of Walks



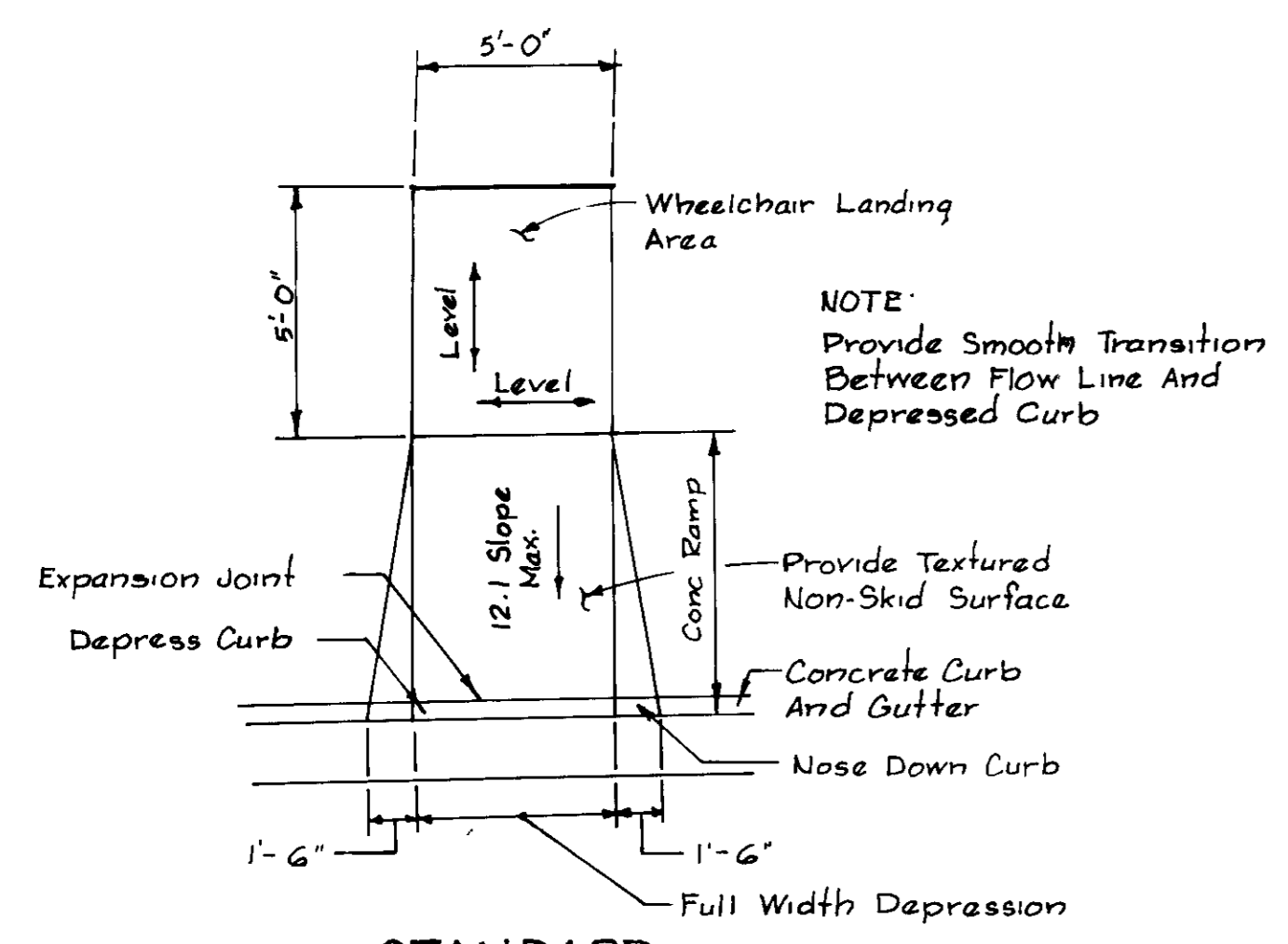
TYPICAL SIDEWALK DETAIL
NO SCALE



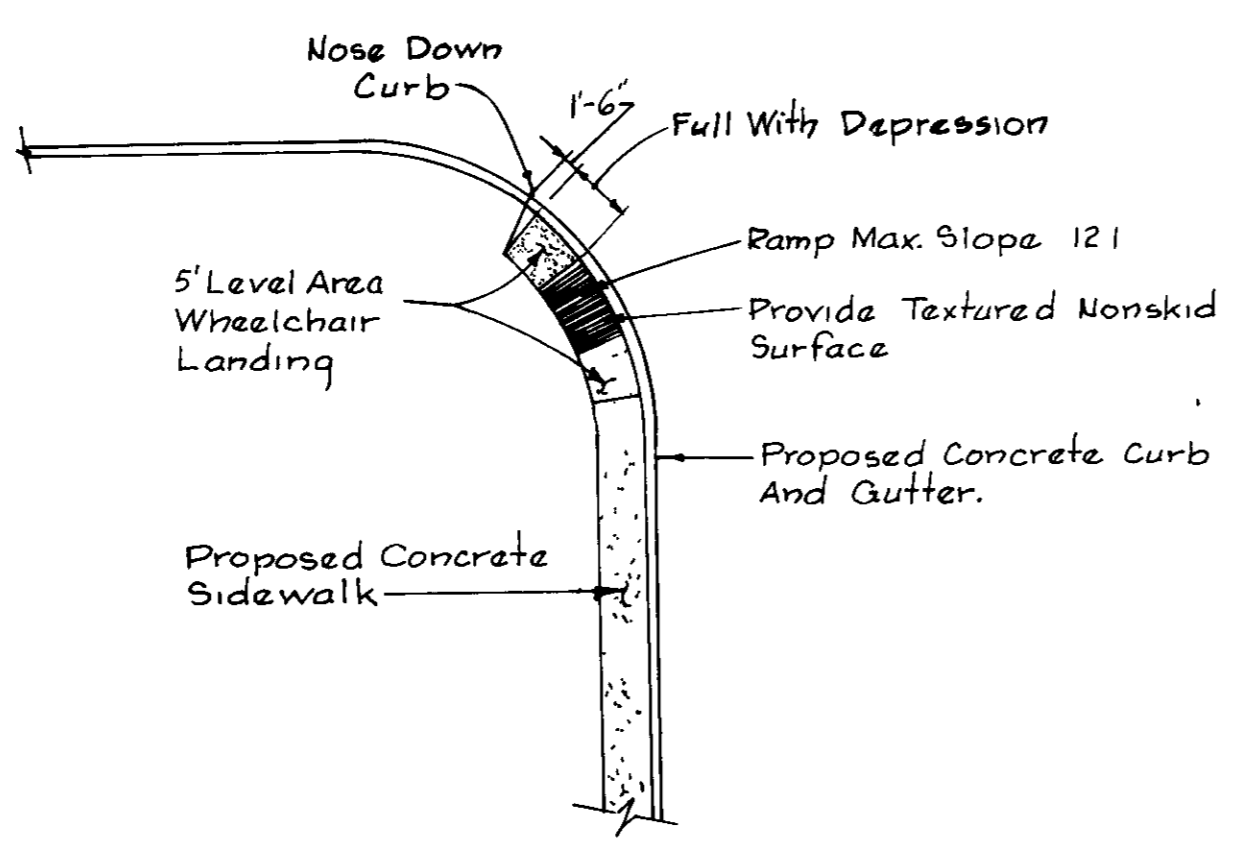
TYPICAL SECTION PARKING LOTS
NO SCALE



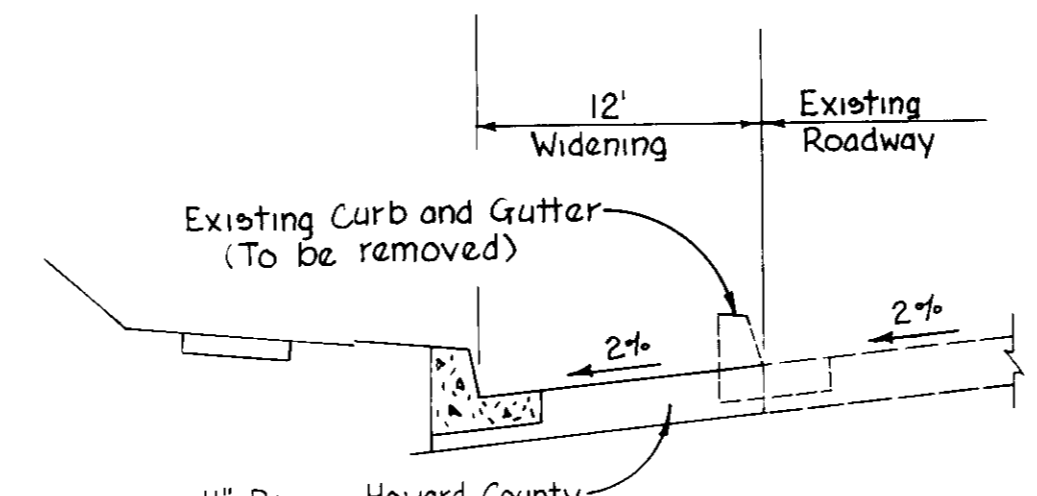
TYPICAL SECTION 16\", 24\"/>



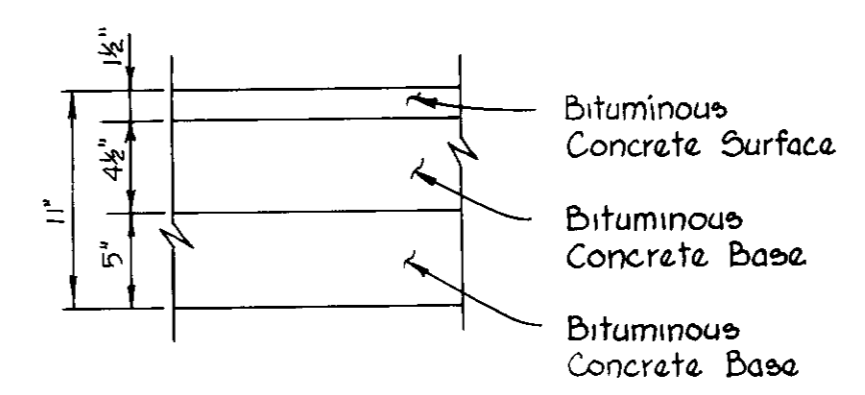
STANDARD HANDICAPPED RAMP DETAILS
NO SCALE



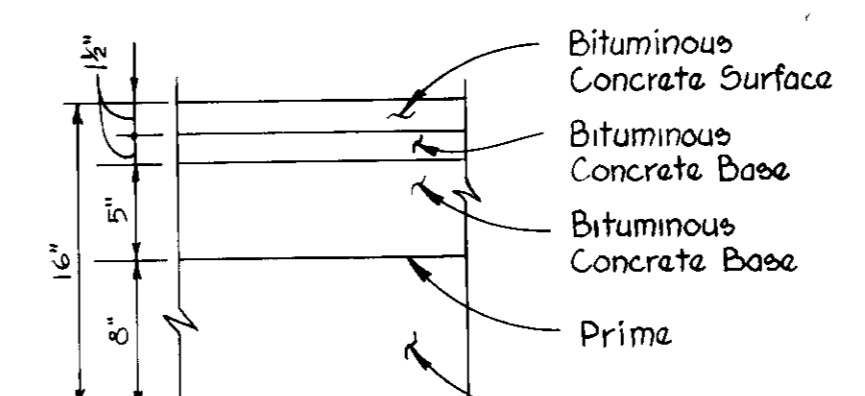
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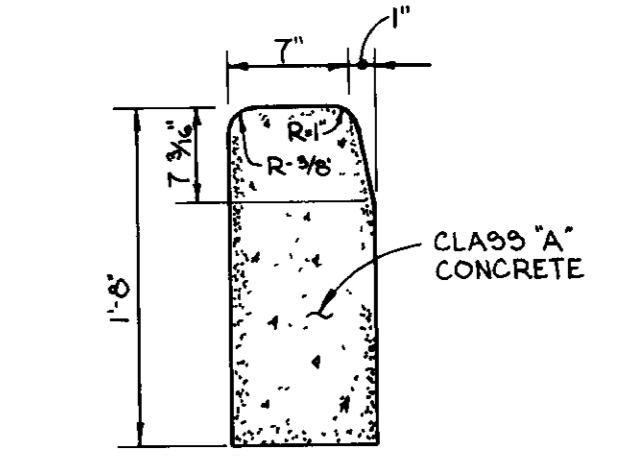
TYPICAL SECTION DORSEY HALL DRIVE WIDENING



P-5 Full Depth Bituminous Concrete



P-5 Granular Base (Alternate)



STANDARD BARRIER CURB
NO SCALE

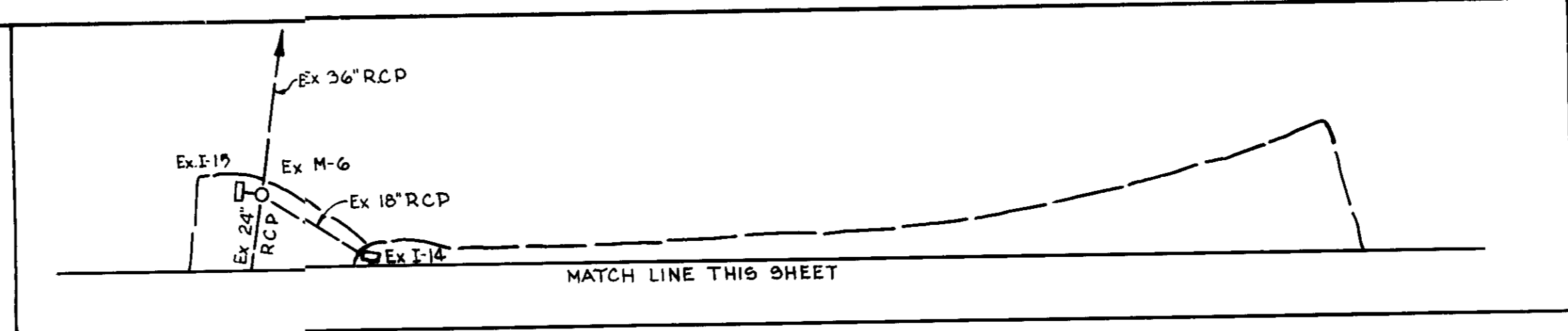
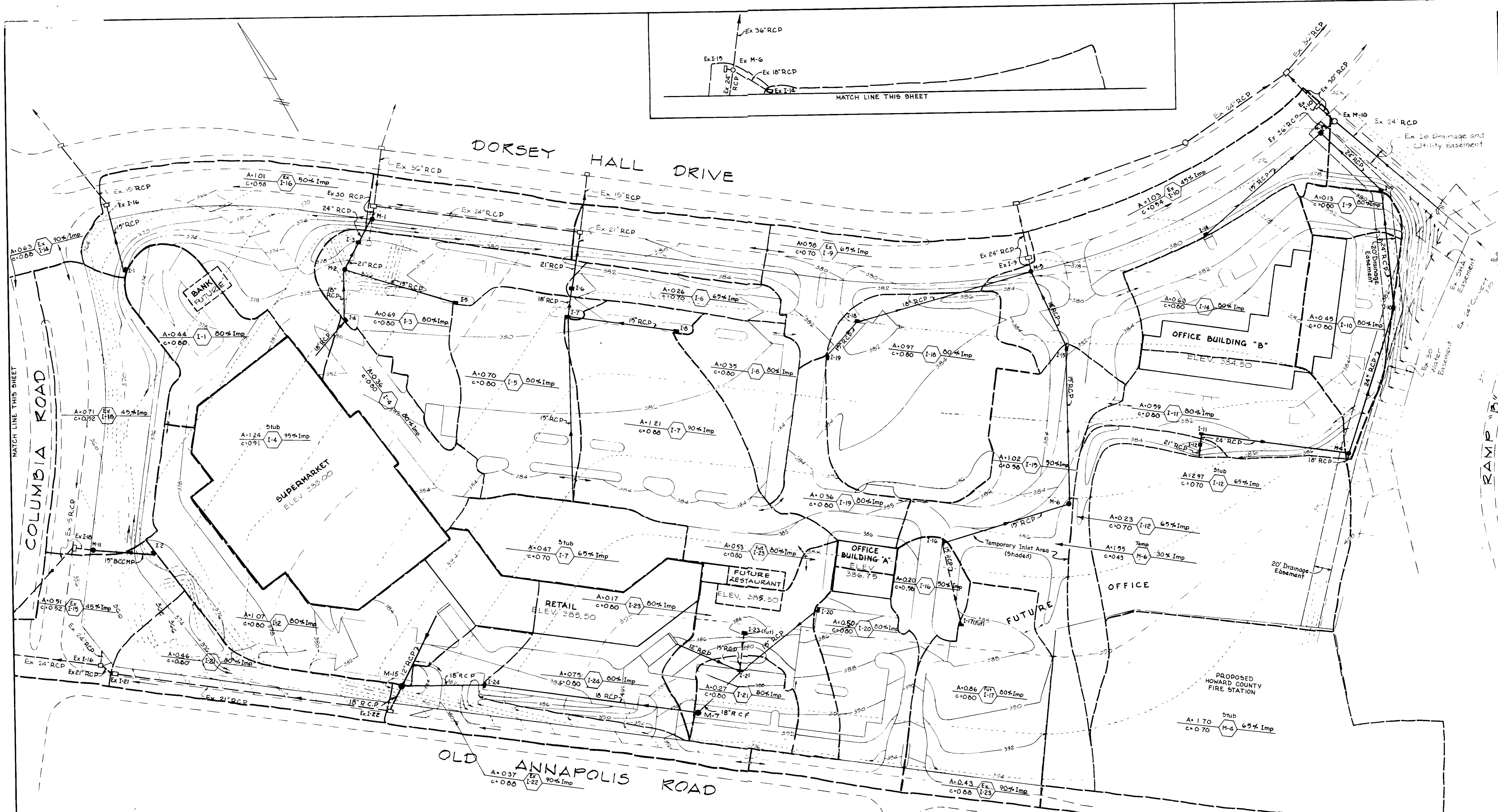
APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.
HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER *[Signature]* 10-14-88 DATE
APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR *[Signature]* 10/21/88 DATE
CHIEF BUREAU OF ENGINEERING *[Signature]* 10-4-88 DATE
APPROVED HOWARD COUNTY OFFICE OF PLANNING AND ZONING
PLANNING DIRECTOR *[Signature]* 10-20-88 DATE
CHIEF DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT *[Signature]* 10-27-88 DATE

A
8-31-88
LKS

OWNER AND DEVELOPER
THE HOWARD RESEARCH AND DEVELOPMENT LAND COMPANY
10275 LITTLE PATUXENT PARKWAY
COLUMBIA, MARYLAND 21043
WHITMAN REARD AND ASSOCIATES - ENGINEERS
2315 SAINT PAUL STREET
BALTIMORE, MARYLAND-21218
[Signature]
KENNETH A MCCORD, P.E. NO 1974

NO	DATE	DESCRIPTION OF REVISION
2	9/1/88	As per Planning and DPW Comments
1	7/25/88	As per Planning, DPW and SCS Comments

DORSEY HALL
-SITE DEVELOPMENT PLAN-
SECTION 2 AREA 4
PARCEL "L"
(VILLAGE CENTER)
ROAD DETAILS
SHEET 7 OF 14
ELECTION DISTRICT NO 2
HOWARD COUNTY, MARYLAND
DATE: 4/25/88 SCALE AS SHOWN



APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
 HOWARD COUNTY HEALTH DEPARTMENT

[Signature] 10/14/88
 COUNTY HEALTH OFFICER DATE

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE
 STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.

[Signature] 10/5/88
 DIRECTOR DATE

[Signature] 10-4-88
 CHIEF BUREAU OF ENGINEERING DATE

APPROVED HOWARD COUNTY OFFICE OF PLANNING AND ZONING

[Signature] 10-20-88
 PLANNING DIRECTOR DATE

[Signature] 11-2-88
 CHIEF DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

2/1/88 As per Planning and DPW Comments
 7/25/88 As per Planning, DPW and SCS Comments

NO	DATE	DESCRIPTION OF REVISION
2	2/1/88	As per Planning and DPW Comments
1	7/25/88	As per Planning, DPW and SCS Comments

DORSEY HALL
 -SITE DEVELOPMENT PLAN-
 SECTION 2 AREA 4
 PARCEL "L"
 (VILLAGE CENTER)

DRAINAGE AREA MAP

SHEET 6 OF 14

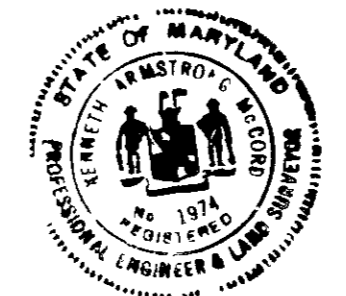
ELECTION DISTRICT NO 2
 HOWARD COUNTY MARYLAND

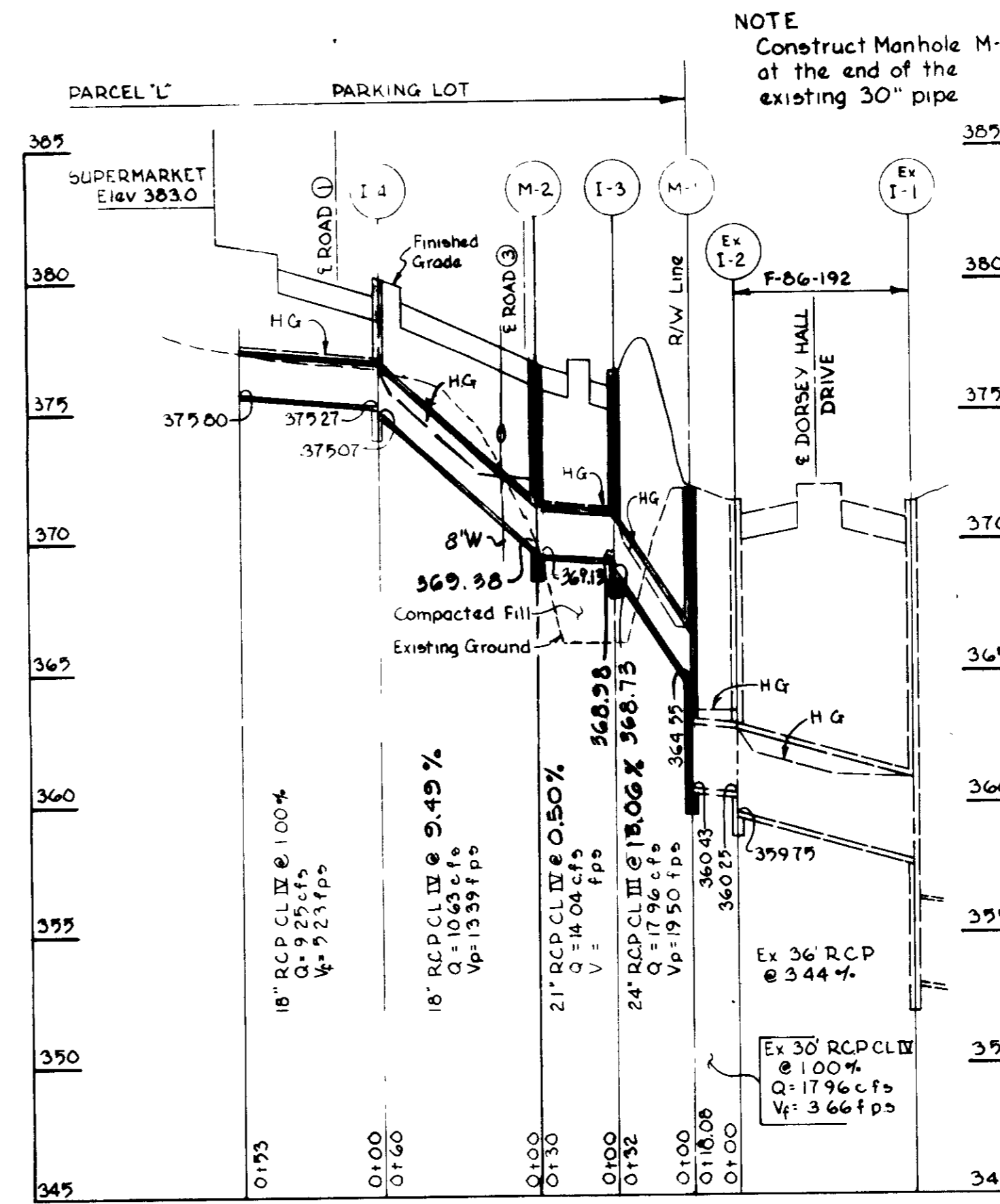
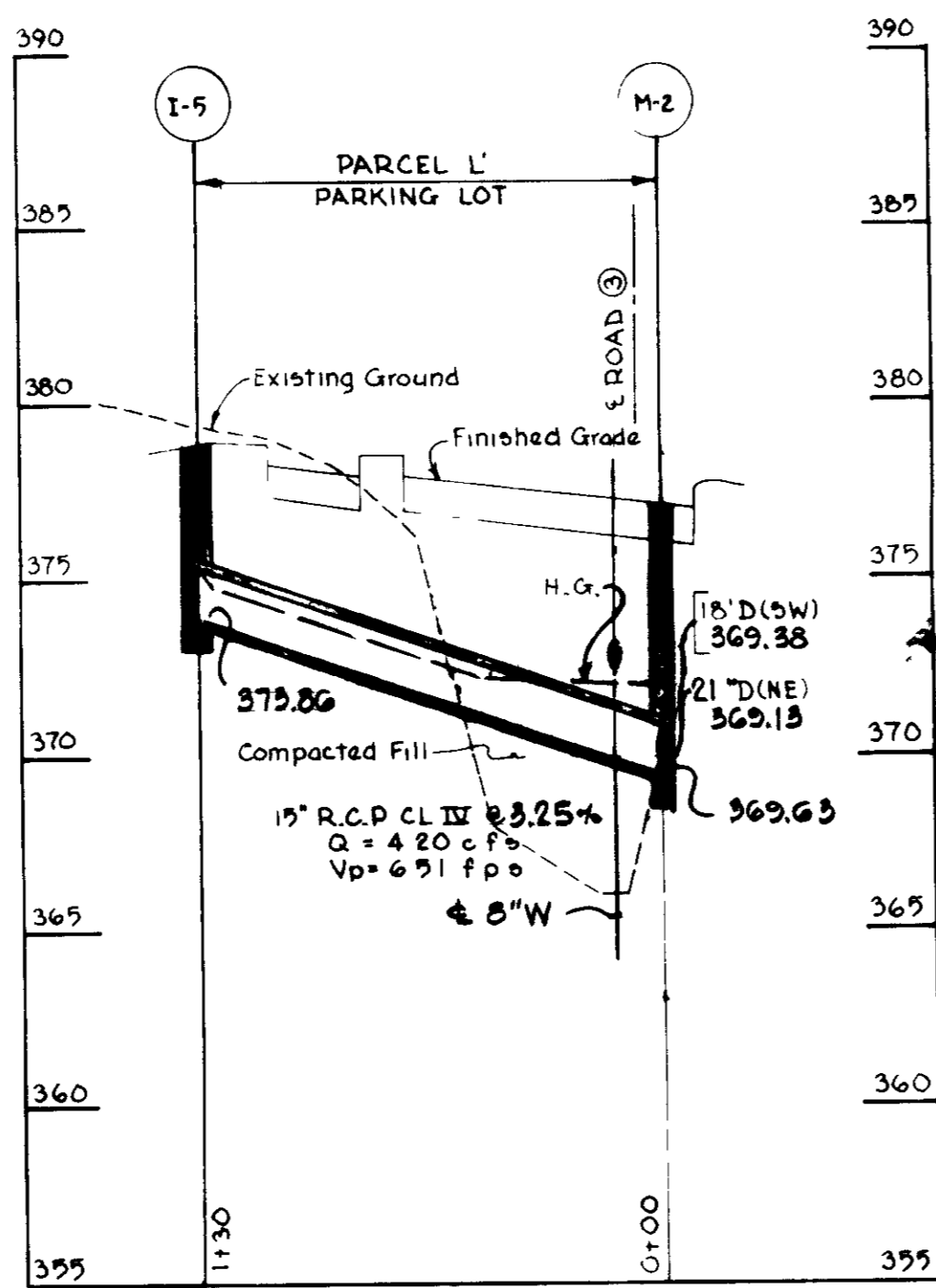
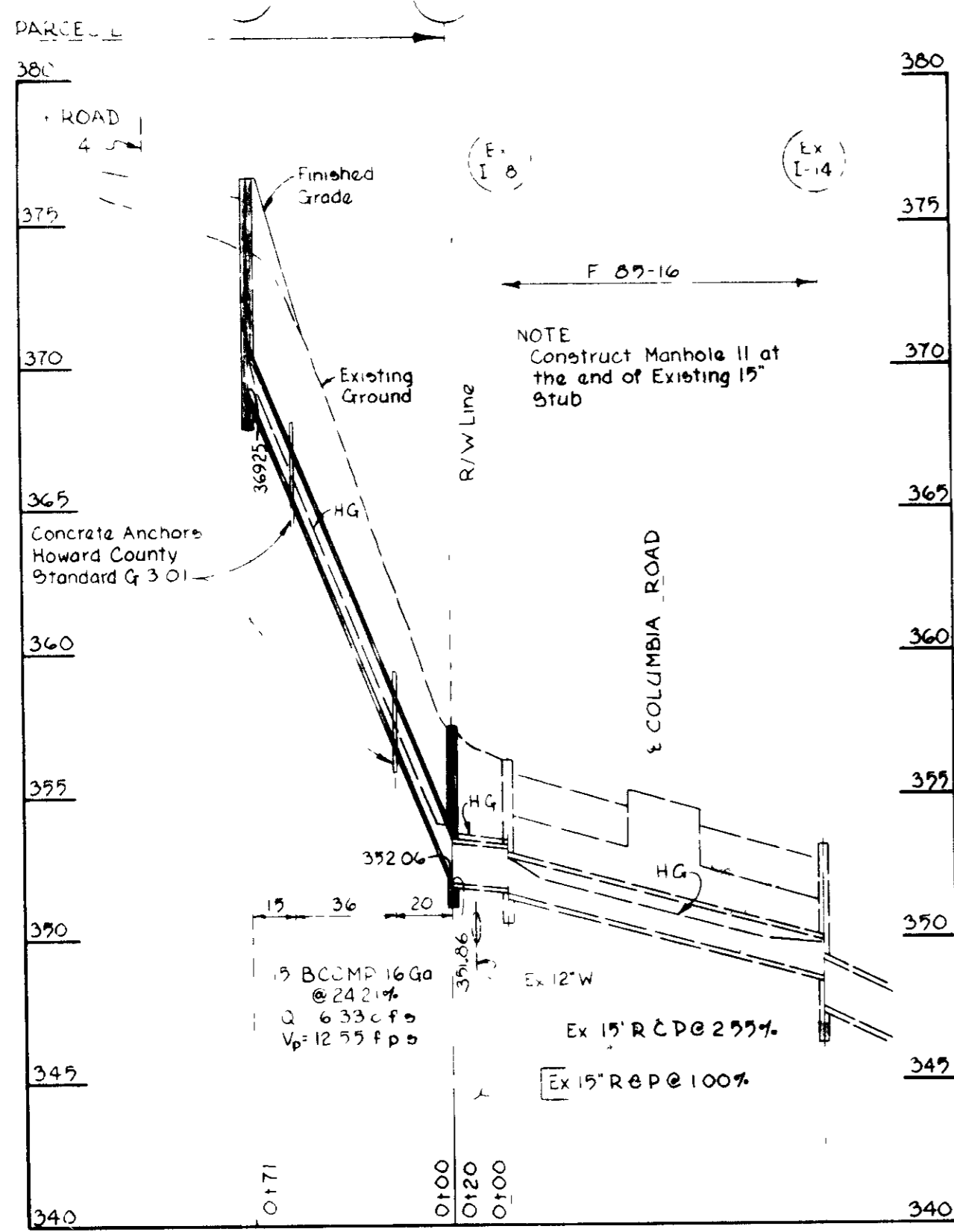
DATE 4/25/88 SCALE 1"=50'

OWNER AND DEVELOPER
 THE HOWARD RESEARCH AND
 DEVELOPMENT LAND COMPANY
 10275 LITTLE PATUXENT PARKWAY
 COLUMBIA MARYLAND 21043

WHITMAN REARD AND ASSOCIATES
 ENGINEERS
 2315 SAINT PAUL STREET
 BALTIMORE MARYLAND 21218

[Signature]
 KENNETH A. REARD P.E. NO 1974





APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS,
HOWARD COUNTY HEALTH DEPARTMENT.

COUNTY HEALTH OFFICER: [Signature] DATE: 12-11-88

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE
STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.

DIRECTOR: [Signature] DATE: 10-16-88

CHIEF, BUREAU OF ENGINEERING: [Signature] DATE: 10-4-88

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

PLANNING DIRECTOR: [Signature] DATE: 10-10-88

CHIEF, DIVISION OF COMMUNITY
PLANNING AND LAND DEVELOPMENT: [Signature] DATE: 11-22-88

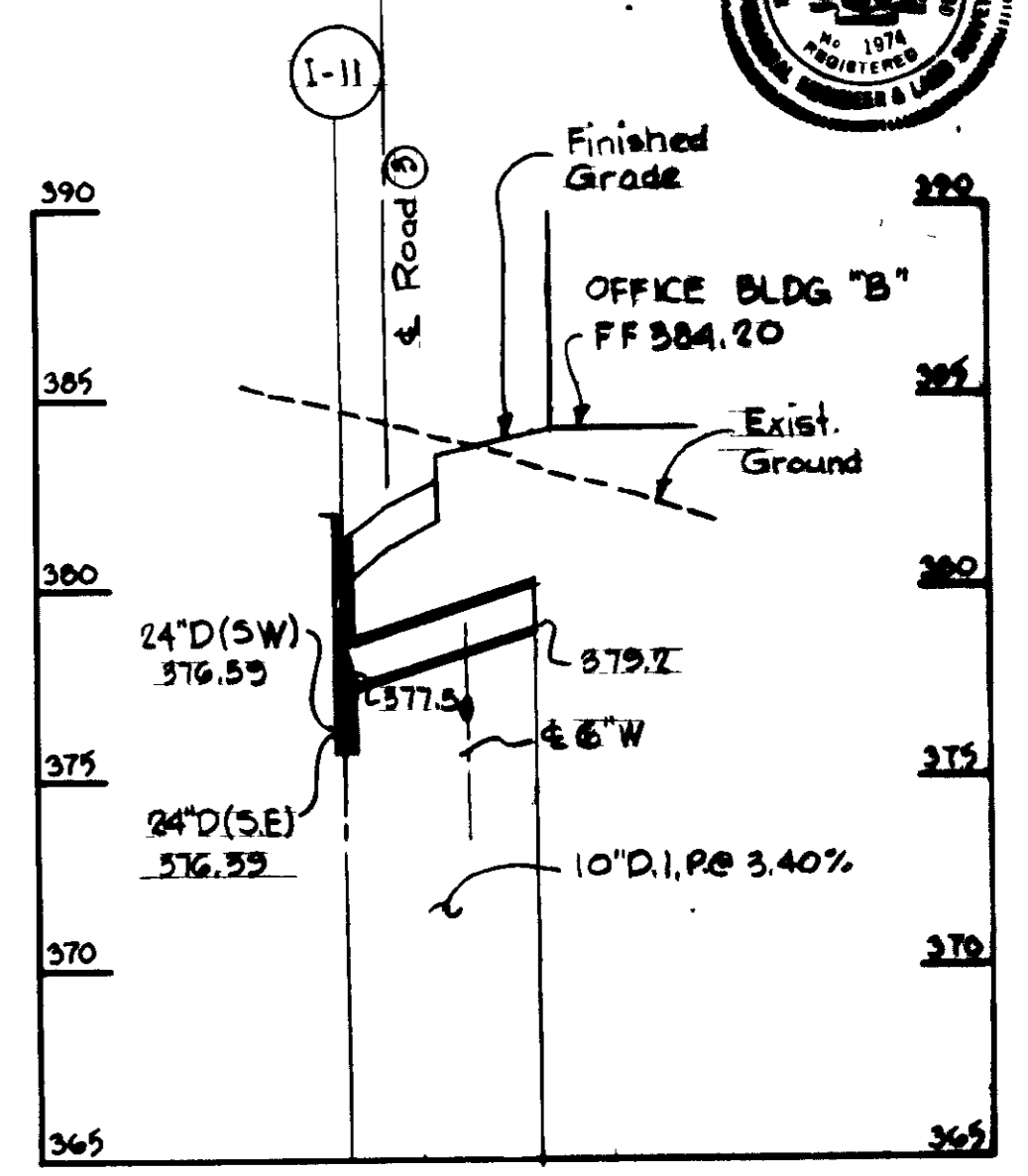
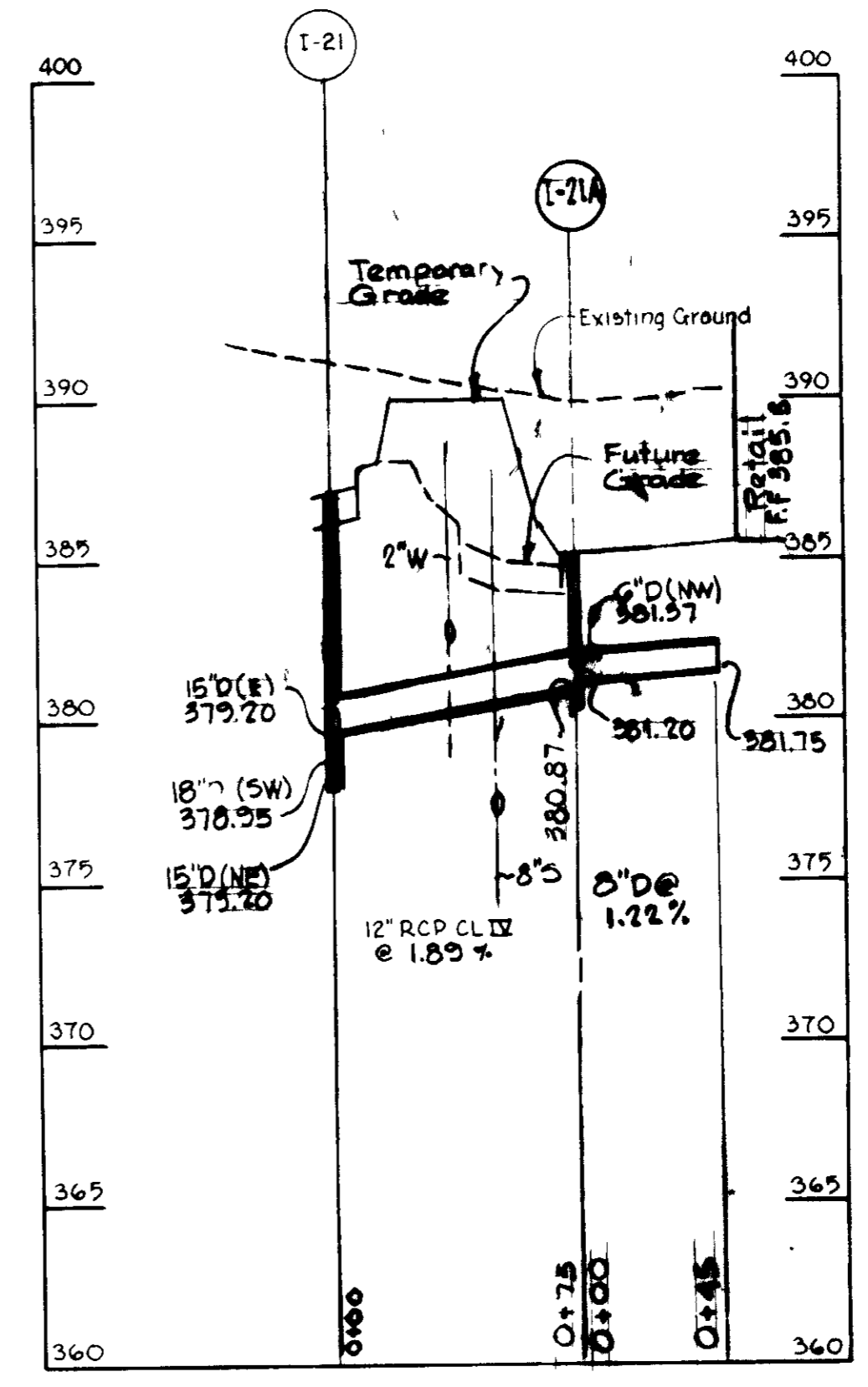
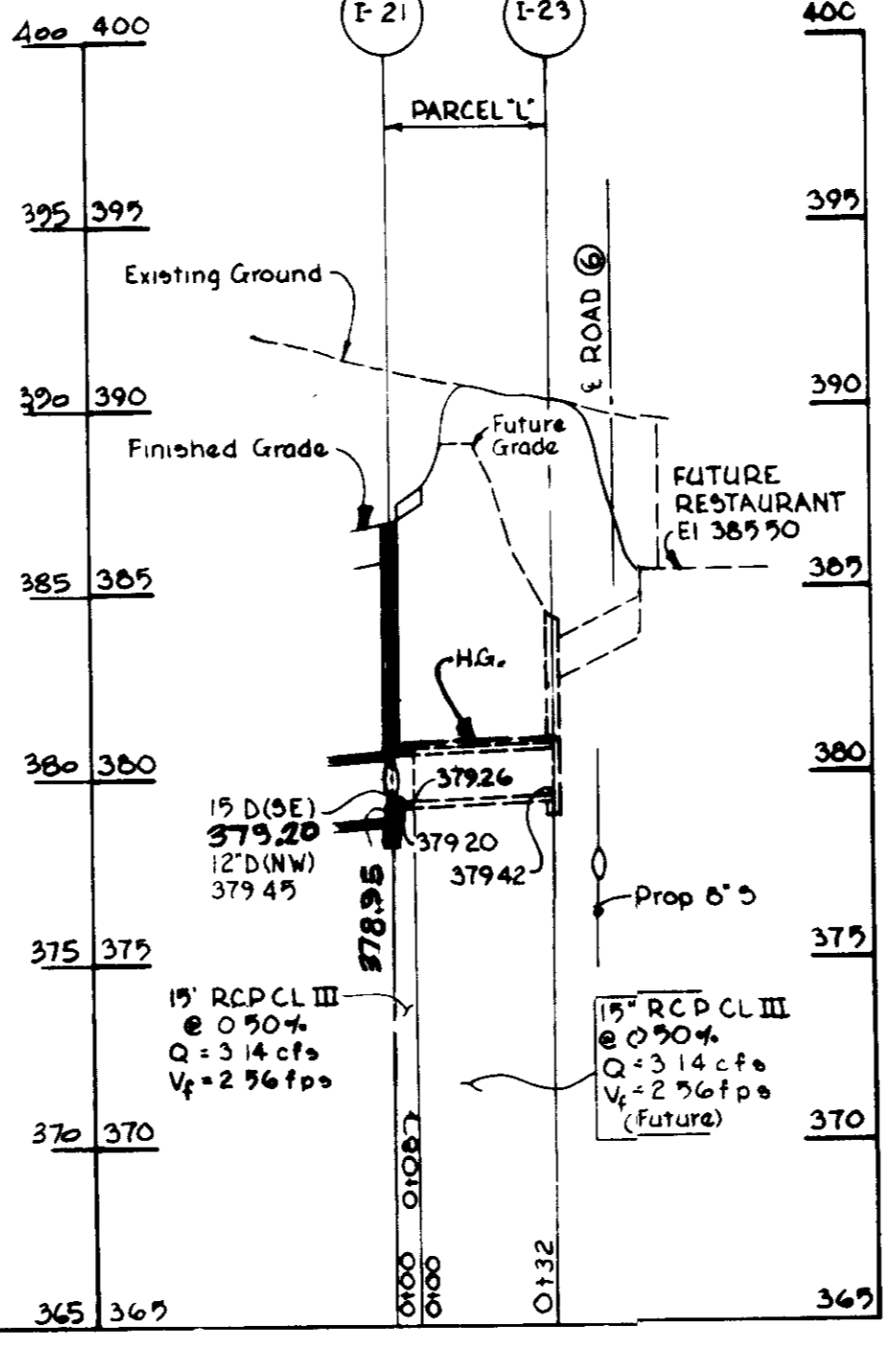
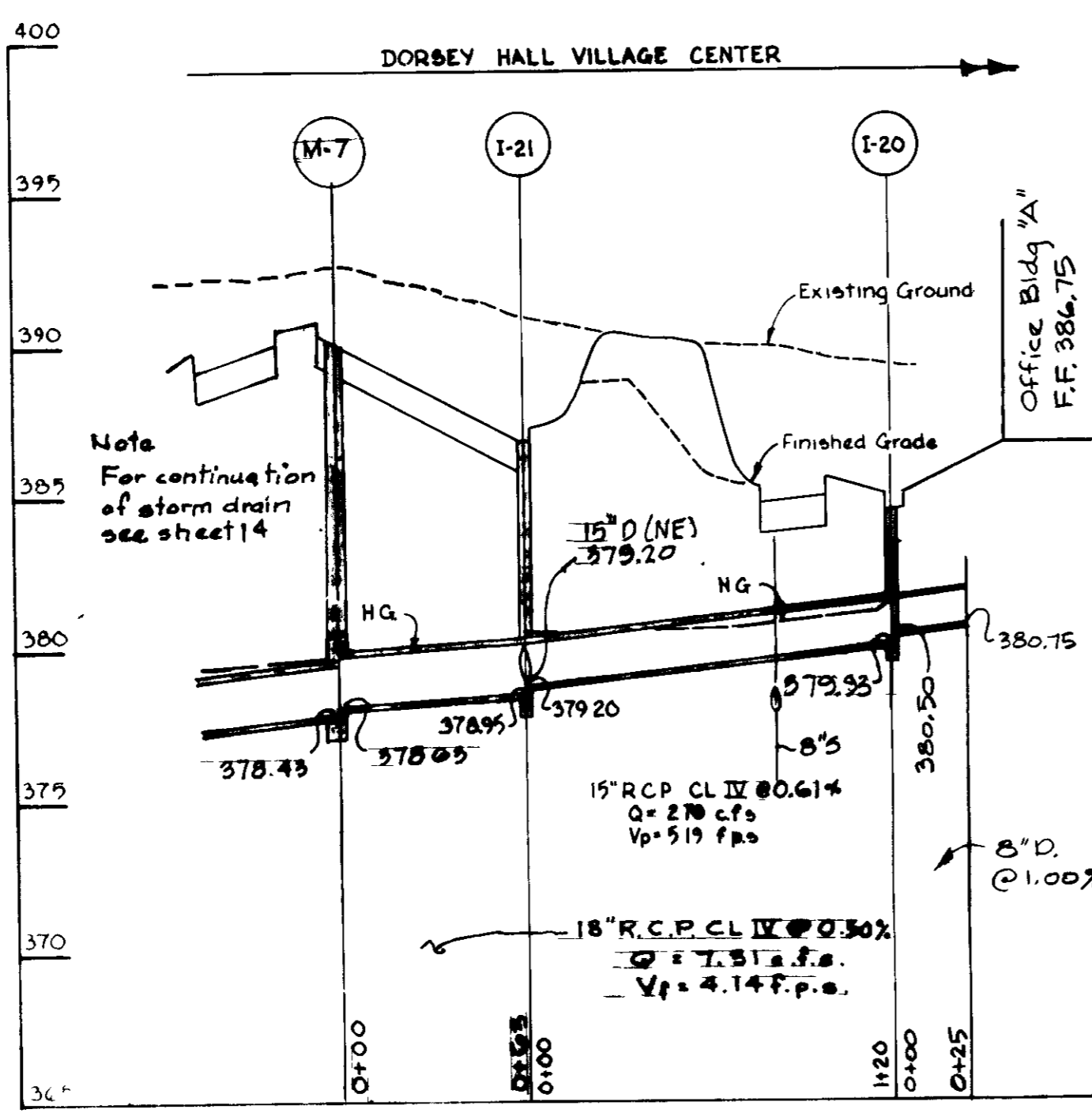
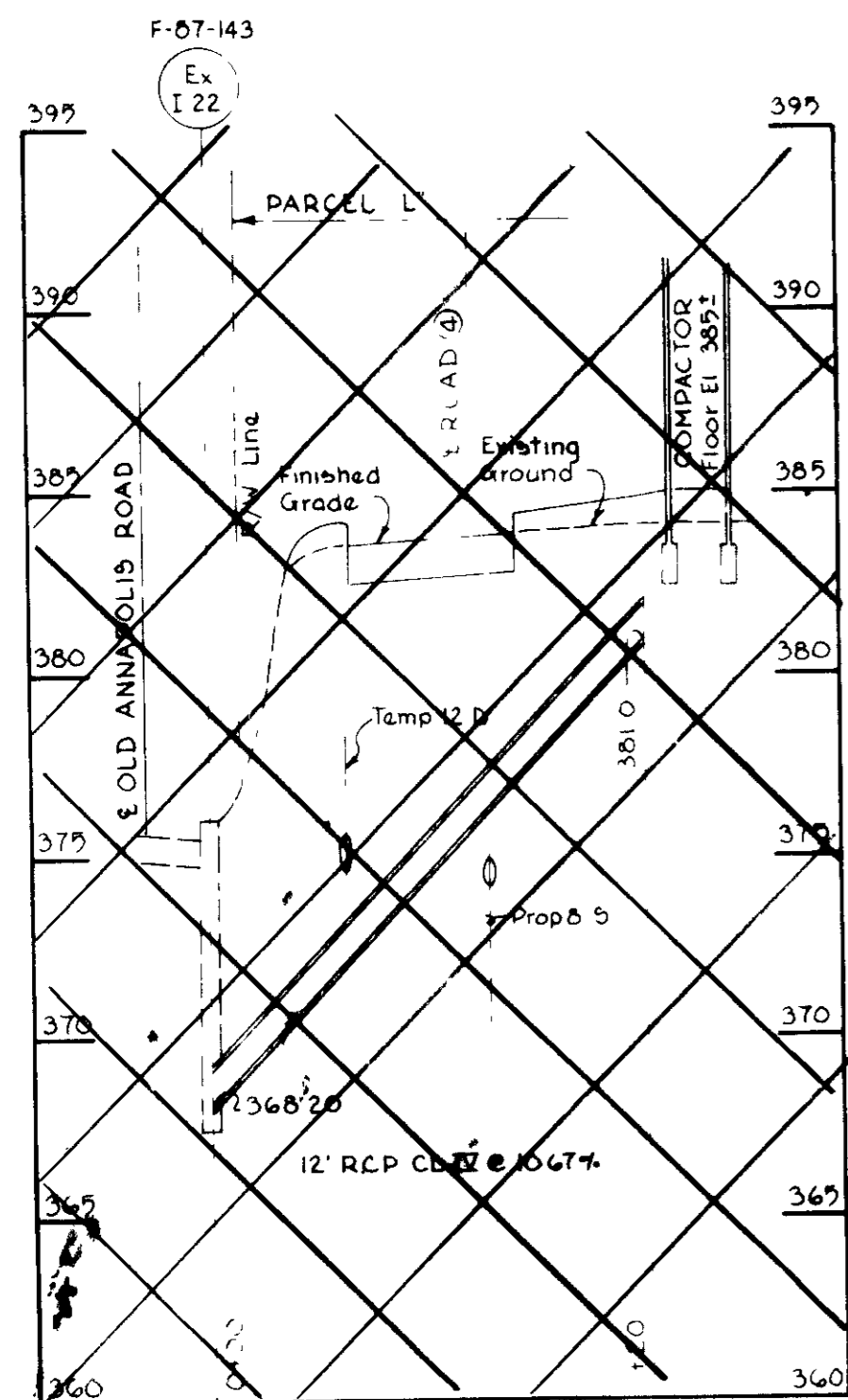
APR 11 1989
DATE: 8-3-88

OWNER AND DEVELOPER
THE HOWARD RESEARCH AND
DEVELOPMENT LAND COMPANY
10275 LITTLE PATUXENT PARKWAY
COLUMBIA, MARYLAND -- 21044

WHITMAN, REQUARDT AND ASSOCIATES
-ENGINEERS-
2315 SAINT PAUL STREET
BALTIMORE, MARYLAND-21218

[Signature]
KENNETH A. MCCORD, P.E. NO. 1000000000

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



NO	DATE	DESCRIPTION OF REVISION
3	9/2/88	Minor Adjustments
2	9/1/88	As per Planning and DPW Comments
1	7/25/88	As per Planning, DPW and SCS Comments

DORSEY HALL
-SITE DEVELOPMENT PLAN-
SECTION 2 AREA 4
PARCEL "L"
(VILLAGE CENTER)

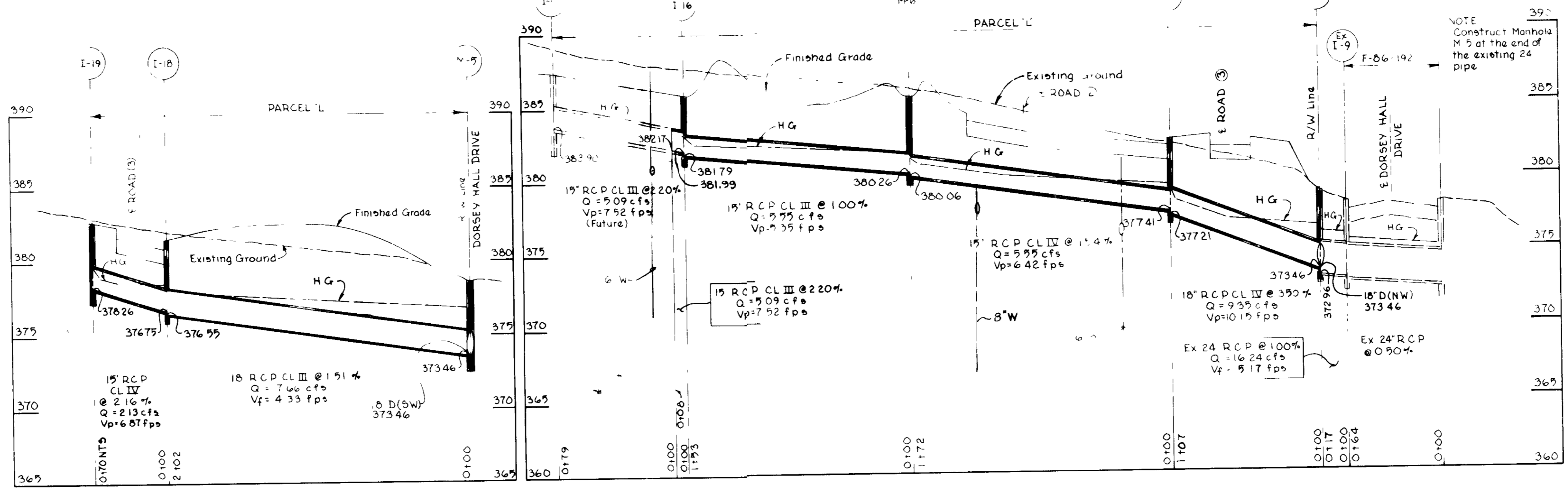
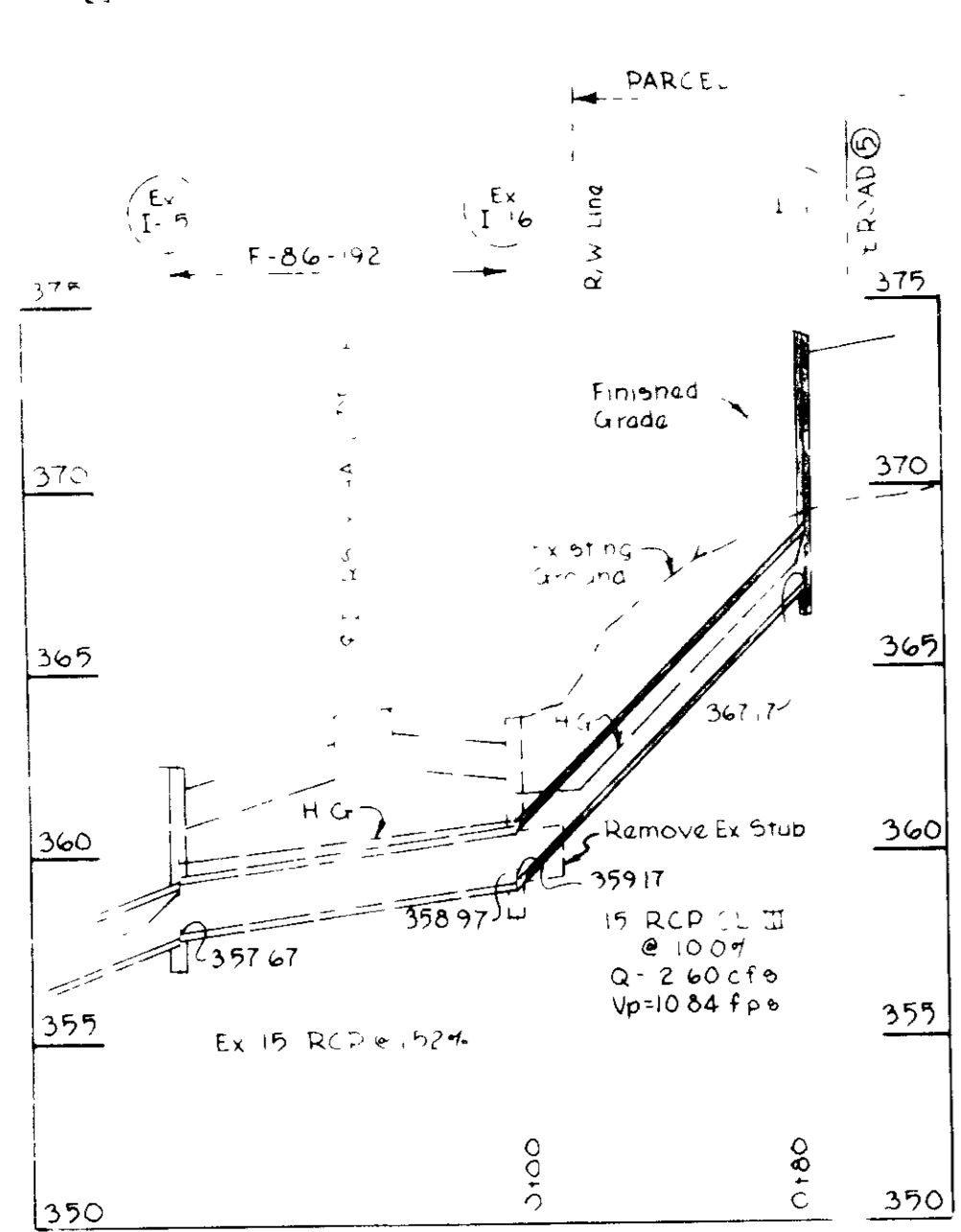
STORM DRAIN PROFILES

SHEET 9 OF 14

ELECTION DISTRICT NO. 2
HOWARD COUNTY, MARYLAND

DATE: 4/25/88 SCALE: AS SHOWN.

PROFILES
Scale: Horiz 1" = 50'
Vert 1" = 5'



APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS,
HOWARD COUNTY HEALTH DEPARTMENT

[Signature] 10-14-88
COUNTY HEALTH OFFICER DATE

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE
STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.

[Signature] 10/5/88
DIRECTOR DATE

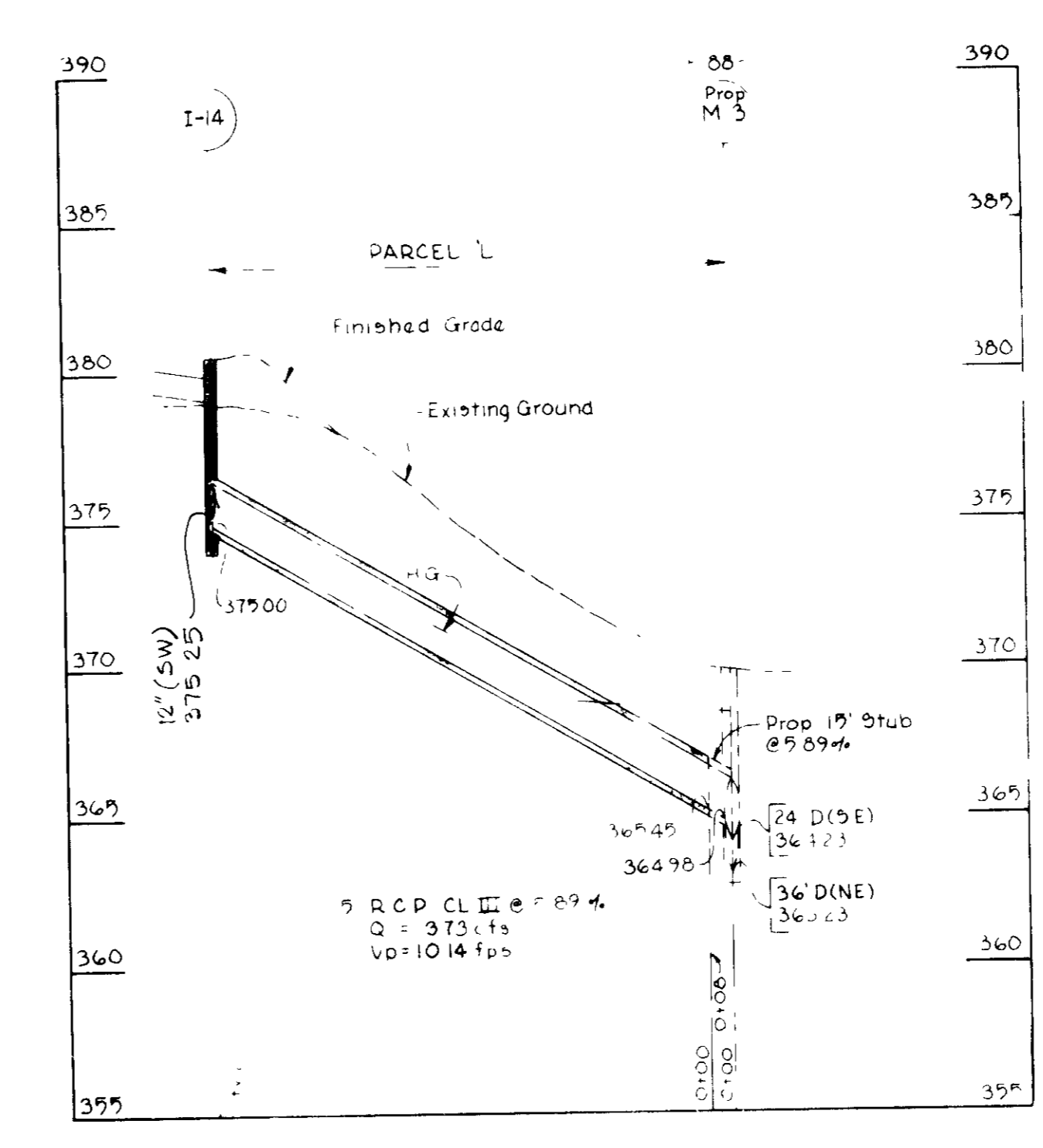
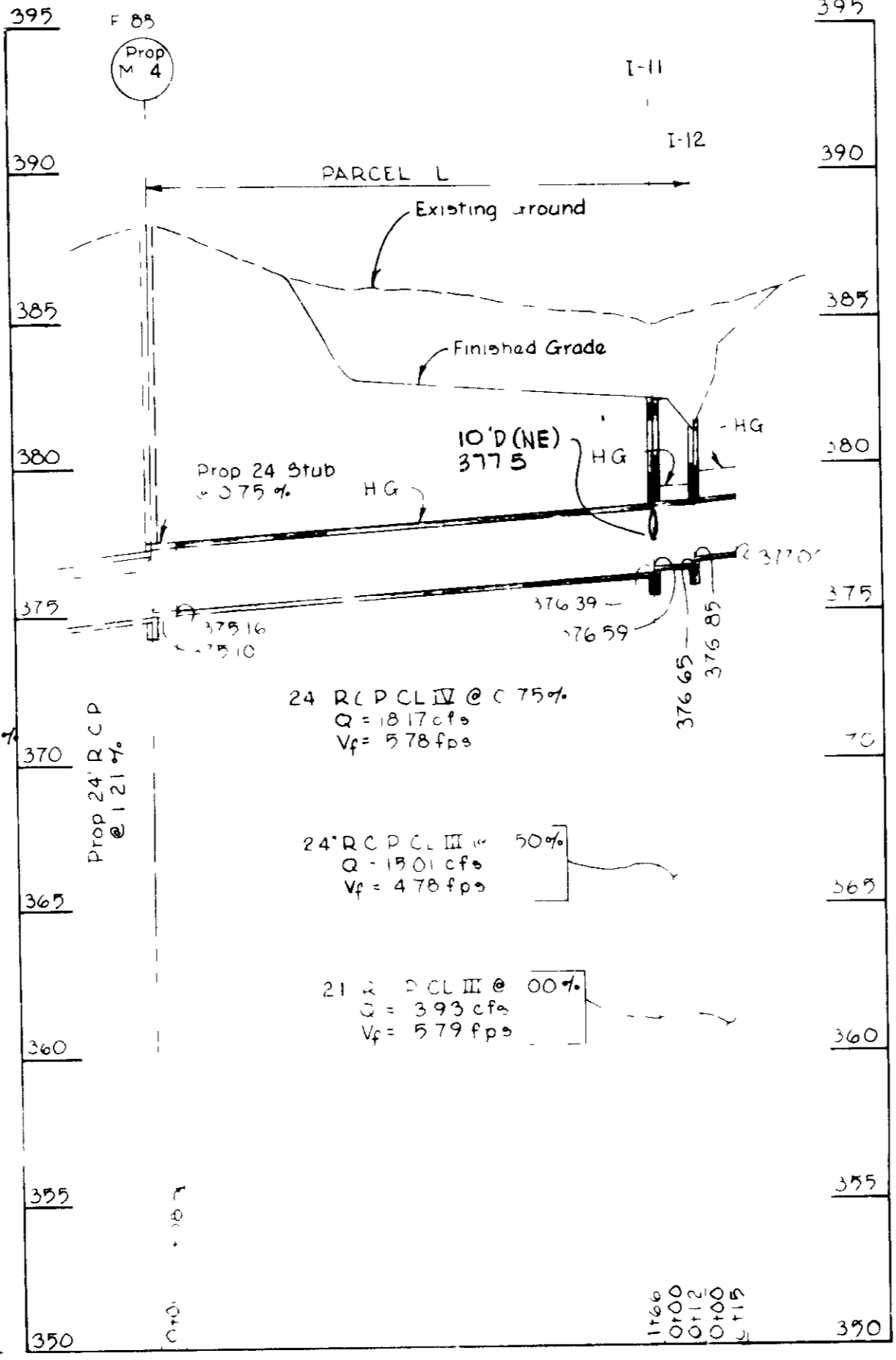
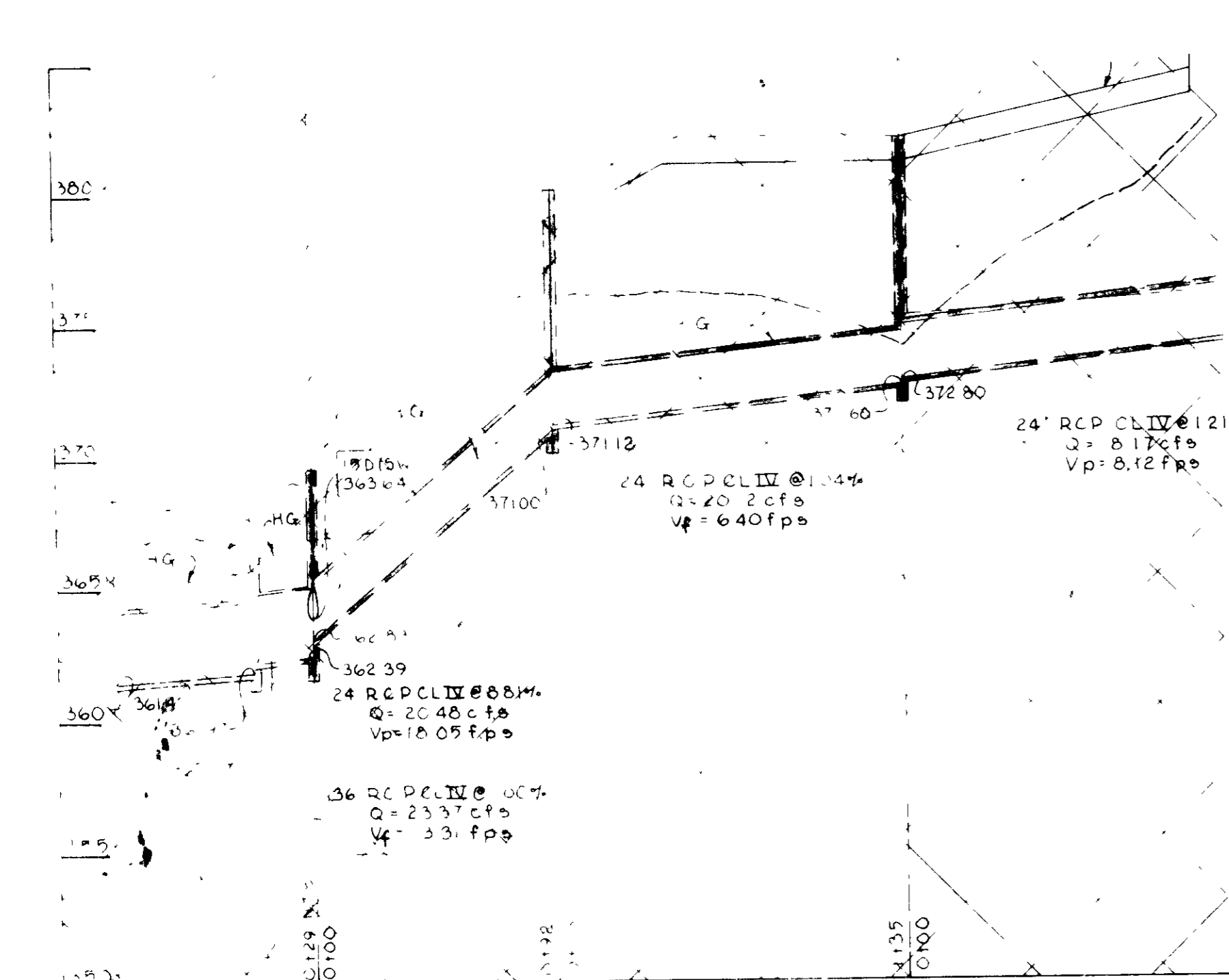
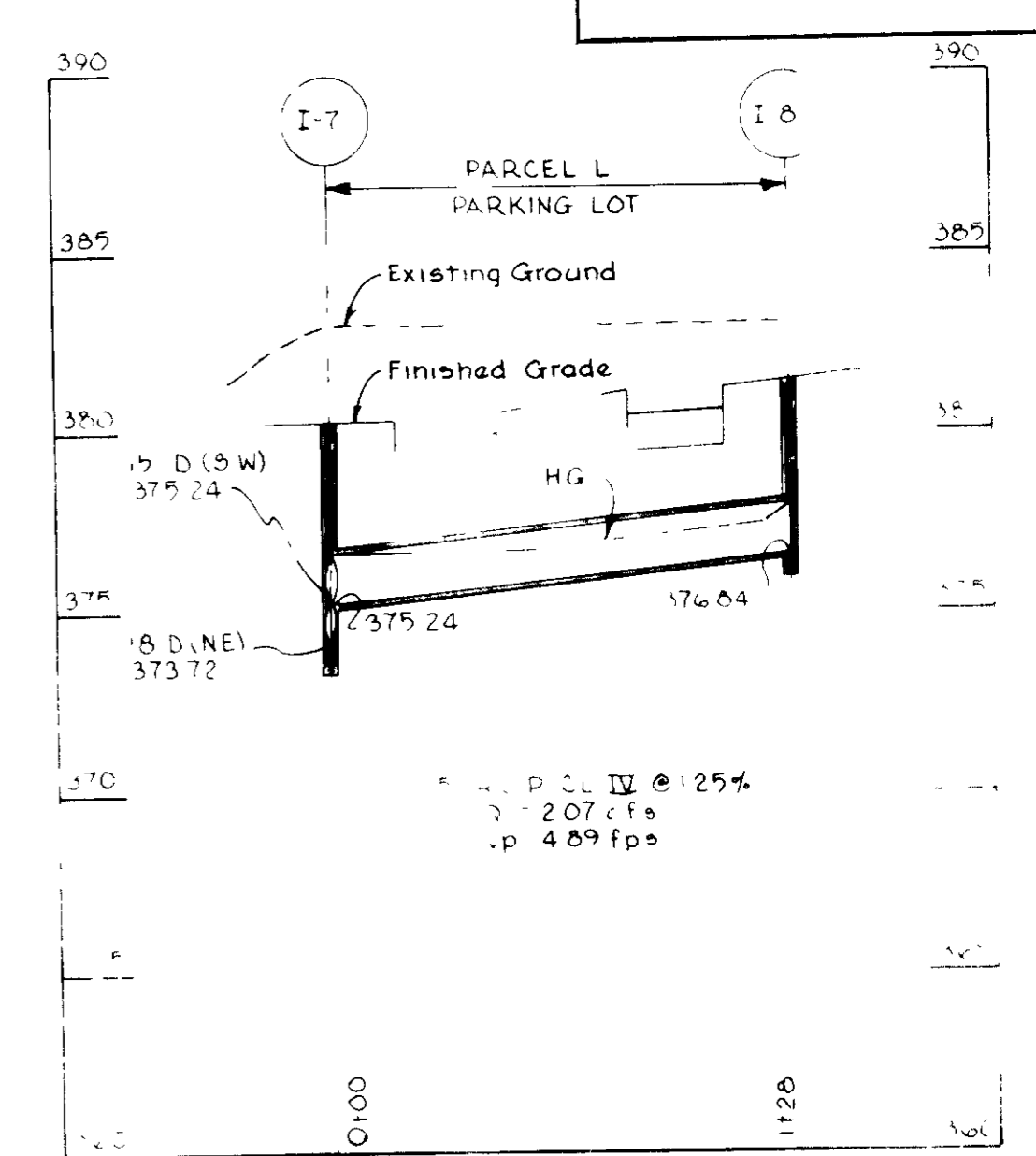
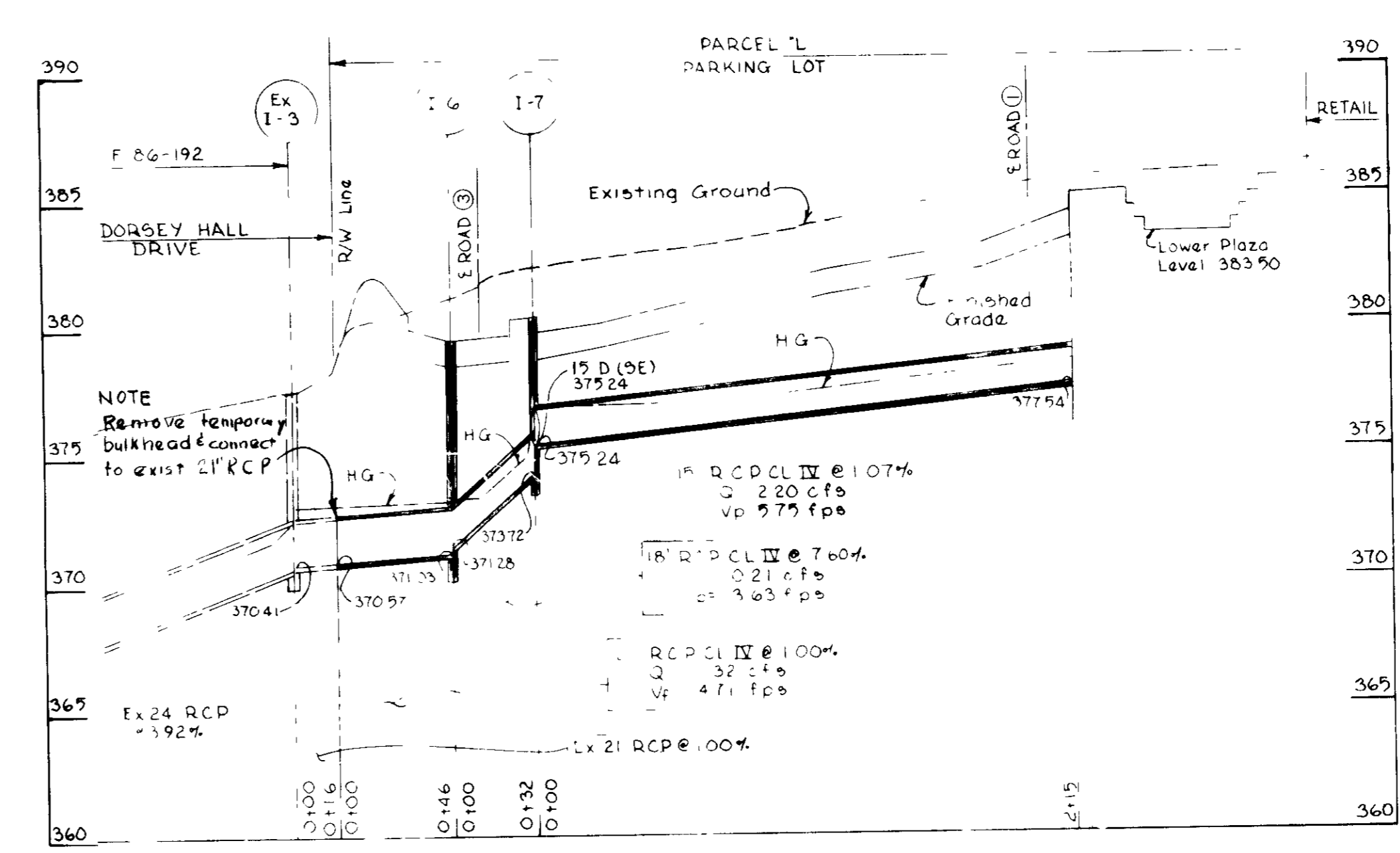
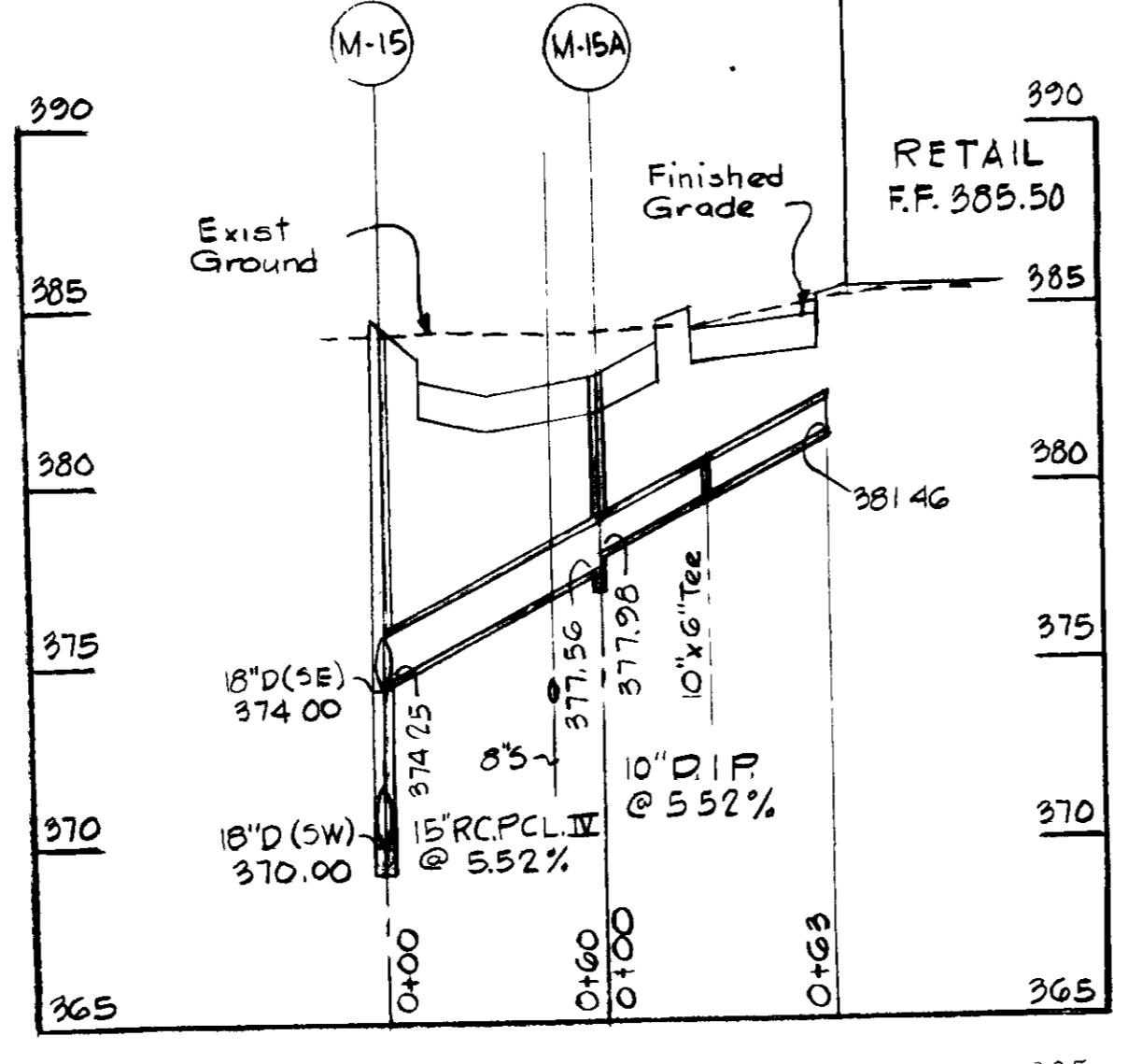
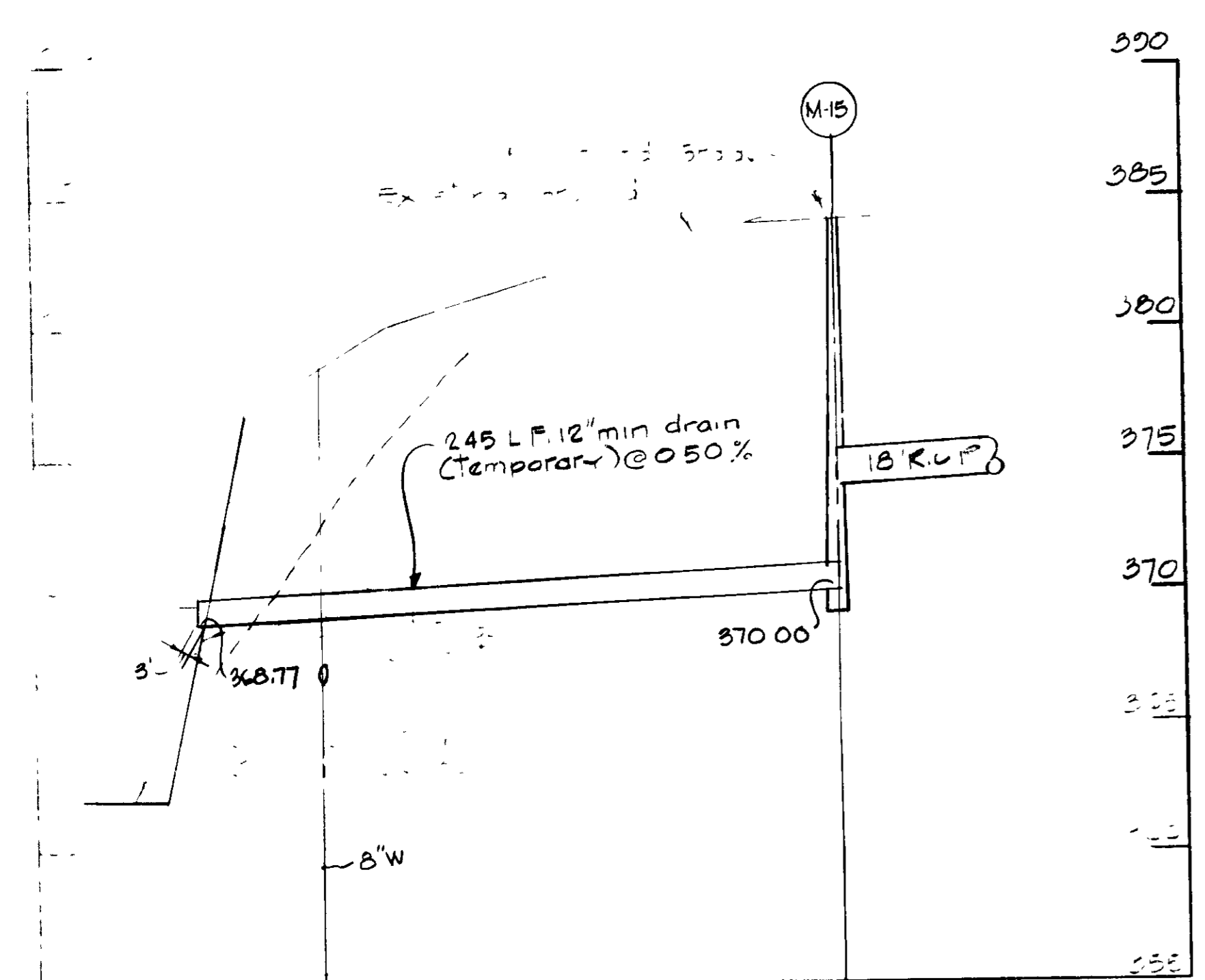
[Signature] 10-4-88
CHIEF, BUREAU OF ENGINEERING DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

[Signature] 10-20-88
PLANNING DIRECTOR DATE

[Signature] 1-22-88
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

8-31-88
LWS



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

OWNER AND DEVELOPER
THE HOWARD RESEARCH AND
DEVELOPMENT LAND COMPANY
10275 LITTLE PATUXENT PARKWAY
COLUMBIA, MARYLAND - 21044

WHITMAN, REQUARDT AND ASSOCIATES
-ENGINEERS-
2315 SAINT PAUL STREET
BALTIMORE, MARYLAND-21218

[Signature]
KENNETH A. MCCORD, P.E. NO 1974

NO	DATE	DESCRIPTION OF REVISION
3	9/12/88	Minor Adjustments
2	8/1/88	As per Planning and DPW Comments
1	7/15/88	As per Planning, DPW and SCS Comments

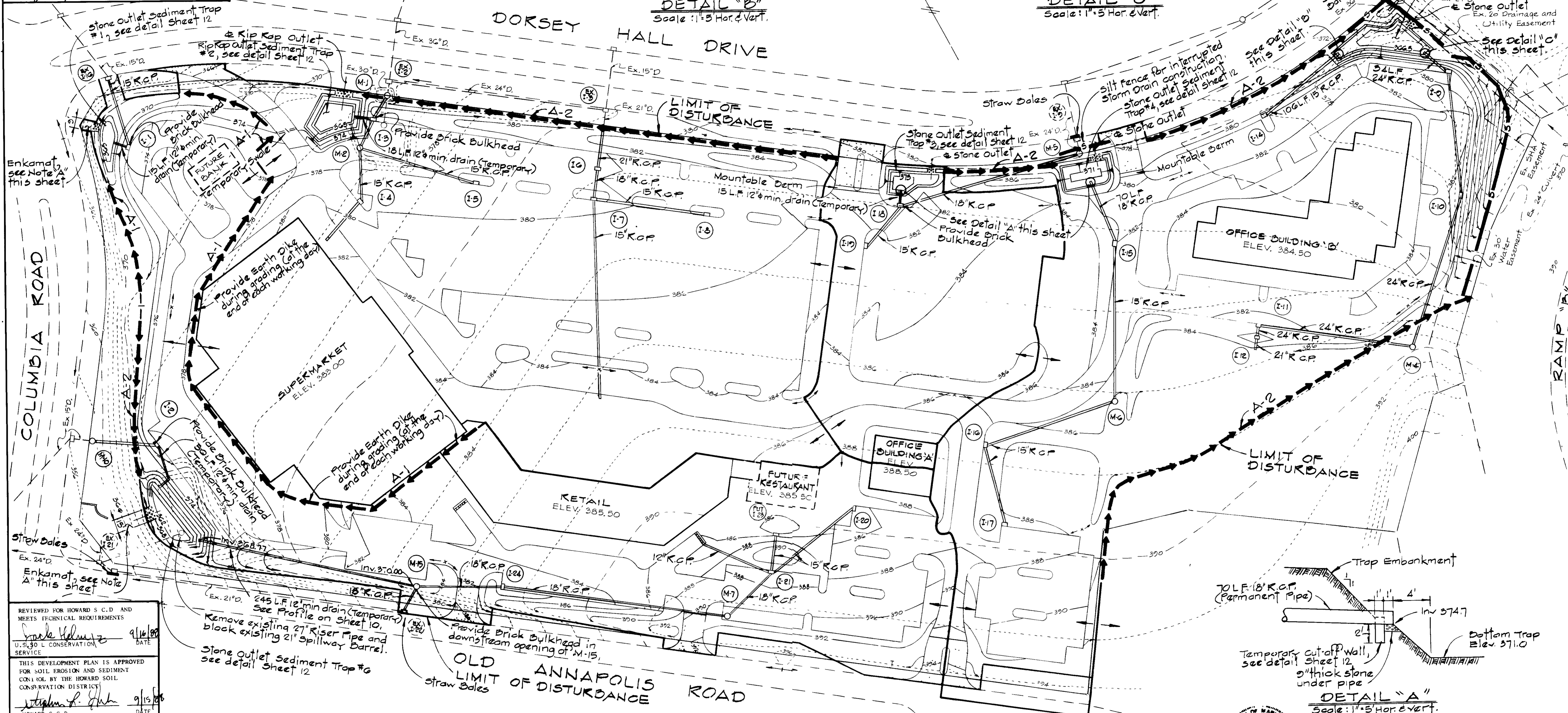
DORSEY HALL
-SITE DEVELOPMENT PLAN-
SECTION 2 AREA 4
PARCEL "L"
(VILLAGE CENTER)
STORM DRAIN PROFILES

SHEET 10 OF 14

ELECTION DISTRICT NO 2
HOWARD COUNTY, MARYLAND
DATE 4/25/88 SCALE AS SHOWN

BY THE DEVELOPER:
 I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND 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. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT.
Gregory R. Kles
 4-25-88
 DATE

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
 4-25-88
 DATE



REVIEWED FOR HOWARD S.C.D. AND MEETS TECHNICAL REQUIREMENTS
Mark Schultz
 9/16/88
 DATE
 U.S. SOIL CONSERVATION SERVICE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT
William S. Galt
 9/15/88
 DATE
 HOWARD S.C.D.

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
James Miller
 10-14-88
 DATE
 COUNTY HEALTH OFFICER

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
James Miller
 10/5/88
 DATE
 DIRECTOR

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
James Miller
 10-4-88
 DATE
 CHIEF BUREAU OF ENGINEERING

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
William S. Galt
 10-20-88
 DATE
 PLANNING DIRECTOR

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
Mark Schultz
 10-27-88
 DATE
 CHIEF DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

Note "A" Provide Enkamot down existing slope at trap outlets. (Traps 1 and 5)
 8-31-88
 LKS

PLAN
 Scale: 1" = 50'

TRAP NO.	TYPE	DRAINAGE AREA	VOLUME REQUIRED	VOLUME AVAILABLE	TOP DERM ELEV.	WEIR CREST ELEV.	WEIR LENGTH	STORAGE ELEV.	BOTTOM ELEV.
1	STW	1.1	73.7 C.Y.	79 C.Y.	370.0	369.0	5'	368.0	363.0
2	"	5.4	361.8 C.Y.	562 C.Y.	372.0	370.5	12'	370.0	363.0
3	"	1.3	87.1 C.Y.	100 C.Y.	381.0	380.0	5'	379.0	375.0
4	"	3.1	207.7 C.Y.	211 C.Y.	381.0	380.0	12'	379.0	371.0
5	"	2.7	180.9 C.Y.	210 C.Y.	372.0	371.0	11'	370.0	366.5
6	"	2.6	174.2 C.Y.	190 C.Y.	368.0	367.0	11'	366.0	362.0

Notes:
 1. Stabilized construction. Entrance to be placed at all entrances; see detail on sheet 12.
 2. Place straw bales in front of existing inlets 9, 10, 21, 22 and 23 for construction of watermain.

OWNER AND DEVELOPER
 THE HOWARD RESEARCH AND DEVELOPMENT LAND COMPANY
 10275 LITTLE PATUXENT PARKWAY
 COLUMBIA MARYLAND 21043

WHITMAN REQUARDT AND ASSOCIATES
 ENGINEERS
 2315 SAINT PAUL STREET
 BALTIMORE MARYLAND 21218

Kenneth A. McCord
 KENNETH A. MCCORD P.E. NO. 1974

2 9/1/88 As per Planning and DPW Comments
 1 7/25/88 As per Planning, DPW and SCS Comments
 NO DATE DESCRIPTION OF REVISION

DORSEY HALL
 -SITE DEVELOPMENT PLAN-
 SECTION 2 AREA 4
 FACCEL "L"
 (VILLAGE CENTER)

SEDIMENT CONTROL PLAN

SHEET 11 OF 14
 ELECTION DISTRICT NO 2
 HOWARD COUNTY MARYLAND
 DATE 4/25/88 SCALE As Shown

SEDIMENT CONTROL

- A minimum of 24 hours notice must be given to the Howard County Office of Inspection and Permits prior to the start of any construction. (992-2437)
- All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
- Following initial soil disturbance or redistribution, permanent or temporary stabilization shall be completed within a) 7 calendar days for all perimeter sediment control structures, dikes, perimeter slopes and all slopes greater than 3:1, b) 14 days as to all other disturbed or graded areas on the project site.
- All sediment traps/basins shown must be fenced and warning signs posted around their perimeter in accordance with Vol 1, Chapter 12, of the HOWARD COUNTY DESIGN MANUAL, Storm Drainage.
- All disturbed areas must be stabilized within the time period specified above in accordance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for permanent seedings (Sec. 51) sod (Sec. 54), temporary seeding (Sec. 50) and mulching (Sec. 52). Temporary stabilization with mulch alone can only be done when recommended seeding dates do not allow for proper germination and establishment of grasses.
- All sediment control structures are to remain in place and are to be maintained in operative condition until permission for their removal has been obtained from the Howard County Sediment Control Inspector
- Site Analysis:
 - Total Area of Site: 18.5 Acres
 - Area Disturbed: 10.2 Acres
 - Area to be roofed or paved: 10.0 Acres
 - Area to be vegetatively stabilized: 8.5 Acres
 - Total Cut: 23,000 Cu. yds
 - Total Fill: 23,000 Cu. yds
 - Offsite waste/borrow area location: _____
- Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
- Additional sediment control must be provided, if deemed necessary by the Howard County DPW sediment control inspector.
- On all sites with disturbed areas in excess of 2 acres, approval of the inspection agency shall be requested upon completion of installation of perimeter erosion and sediment controls, but before proceeding with any other earth disturbance or grading. Other building or grading inspection approvals may not be authorized until this initial approval by the inspection agency is made.

PERMANENT SEEDING NOTES

Apply to graded or cleared areas not subject to immediate further disturbance where a permanent long-lived vegetative cover is needed.

Seedbed Preparation: Loosen upper three inches of soil by raking, discing or other acceptable means before seeding, if not previously loosened

Soil Amendments: In lieu of soil test recommendations, use one of the following schedules

- Preferred - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 sq ft) and 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq ft) before seeding. Harrow or disc into upper three inches of soil. At time of seeding, apply 400 lbs per acre 30-0-0 ureaform fertilizer (9 lbs/1000 sq ft).
- Acceptable - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 sq ft) and 1000 lbs per acre 10-10-10 fertilizer (23 lbs/1000 sq ft) before seeding. Harrow or disc into upper three inches of soil.

Seeding: For the periods March 1 thru April 30, and August 1 thru October 15, seed with 60 lbs per acre (1.4 lbs/1000 sq ft) of Kentucky 31 Tall Fescue. For the period May 1 thru July 31, seed with 60 lbs Kentucky 31 Tall Fescue per acre and 2 lbs per acre (.05 lbs/1000 sq ft) of weeping lovegrass. During the period of October 16 thru February 28, protect site by: Option (1) 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring. Option (2) Use sod. Option (3) Seed with 60 lbs/acre Kentucky 31 Tall Fescue and mulch with 2 tons/acre well anchored straw.

Mulching: Apply 1 1/2 to 2 tons per acre (70 to 90 lbs/1000 sq ft) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gallons per acre (5 gal/1000 sq ft) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gallons per acre (8 gal/1000 sq ft) for anchoring.

Maintenance: Inspect all seeded areas and make needed repairs, replacements and reseedings.

TEMPORARY SEEDING NOTES

Apply to graded or cleared areas likely to be redistributed where a short-term vegetative cover is needed.

Seedbed Preparation: Loosen upper three inches of soil by raking, discing or other acceptable means before seeding, if not previously loosened.

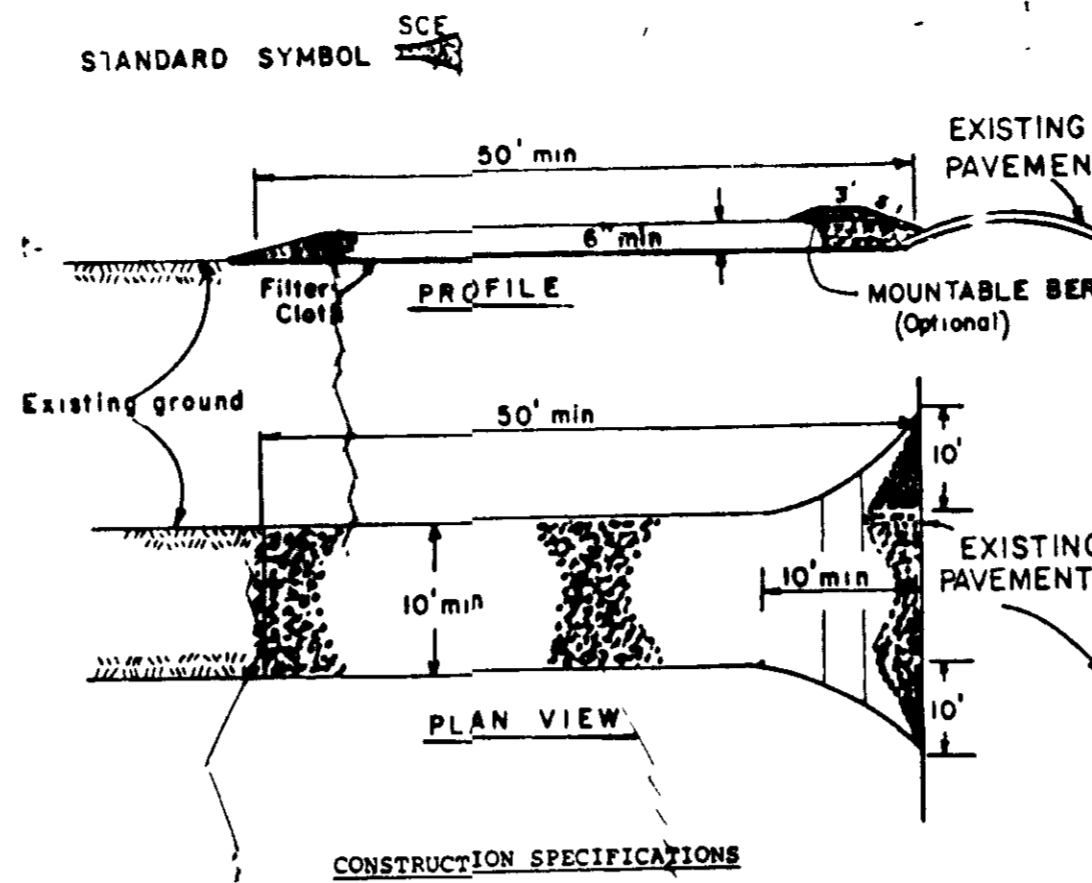
Soil Amendments: Apply 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq ft)

Seeding: For periods March 1 thru April 30 and from August 15 thru November 15, seed with 2 1/2 bushel per acre of annual rye (3.2 lbs/1000 sq ft). For the period May 1 thru August 14, seed with 3 lbs per acre of weeping lovegrass (.07 lbs/1000 sq ft). For the period November 16 thru February 28, protect site by applying 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring, or use sod

Mulching: Apply 1 1/2 to 2 tons per acre (70 to 90 lbs/1000 sq ft) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gal per acre (5 gal/1000 sq ft) of emulsified asphalt on flat areas. On slopes, 8 ft or higher, use 348 gal per acre (8 gal/1000 sq ft) for anchoring areas.

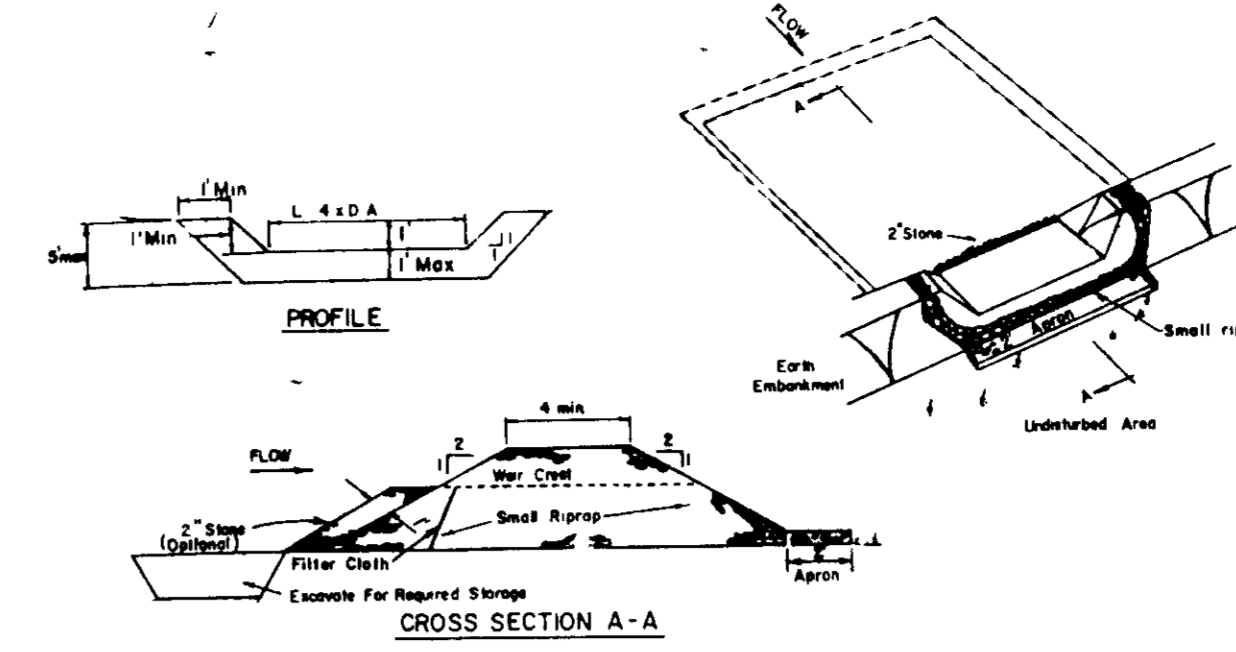
Refer to the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for rate and methods not covered.

STABILIZED CONSTRUCTION ENTRANCE
not to scale

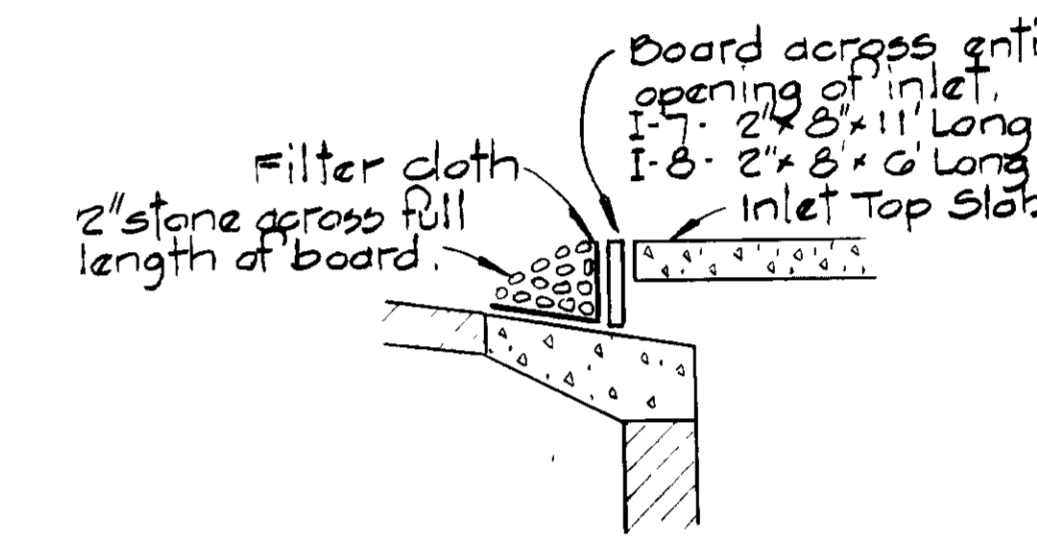


- Stone Size - Use 2" stone, or reclaimed or recycled concrete equivalent.
- Length - As required, but not less than 50 feet (except on a single residence lot where a 30 foot minimum length would apply).
- Thickness - Not less than six (6) inches.
- Width - Ten (10) foot minimum, but not less than the full width at points where ingress or egress occurs.
- Filter Cloth - Will be placed over the entire area prior to placing of stone. Filter will not be required on a single family residence lot.
- Surface Water - All surface water flowing or diverted toward construction entrances shall be piped across the entrance. If piping is impractical, a mountable berm with 5:1 slopes will be provided in a condition which will prevent tracking or flowing of sediment onto public rights-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or cleanup of any measures used to trap sediment. All sediment spilled, dropped, washed or tracked onto public rights-of-way must be removed immediately.
- Washing - Wheels shall be cleaned to remove sediment prior to entrance onto public rights-of-way. When washing is required, it shall be done on an area stabilized with stone and which drains into an approved sediment trapping device.
- Periodic inspection and needed maintenance shall be provided after each rain.

STONE OUTLET SEDIMENT TRAP ST-VI

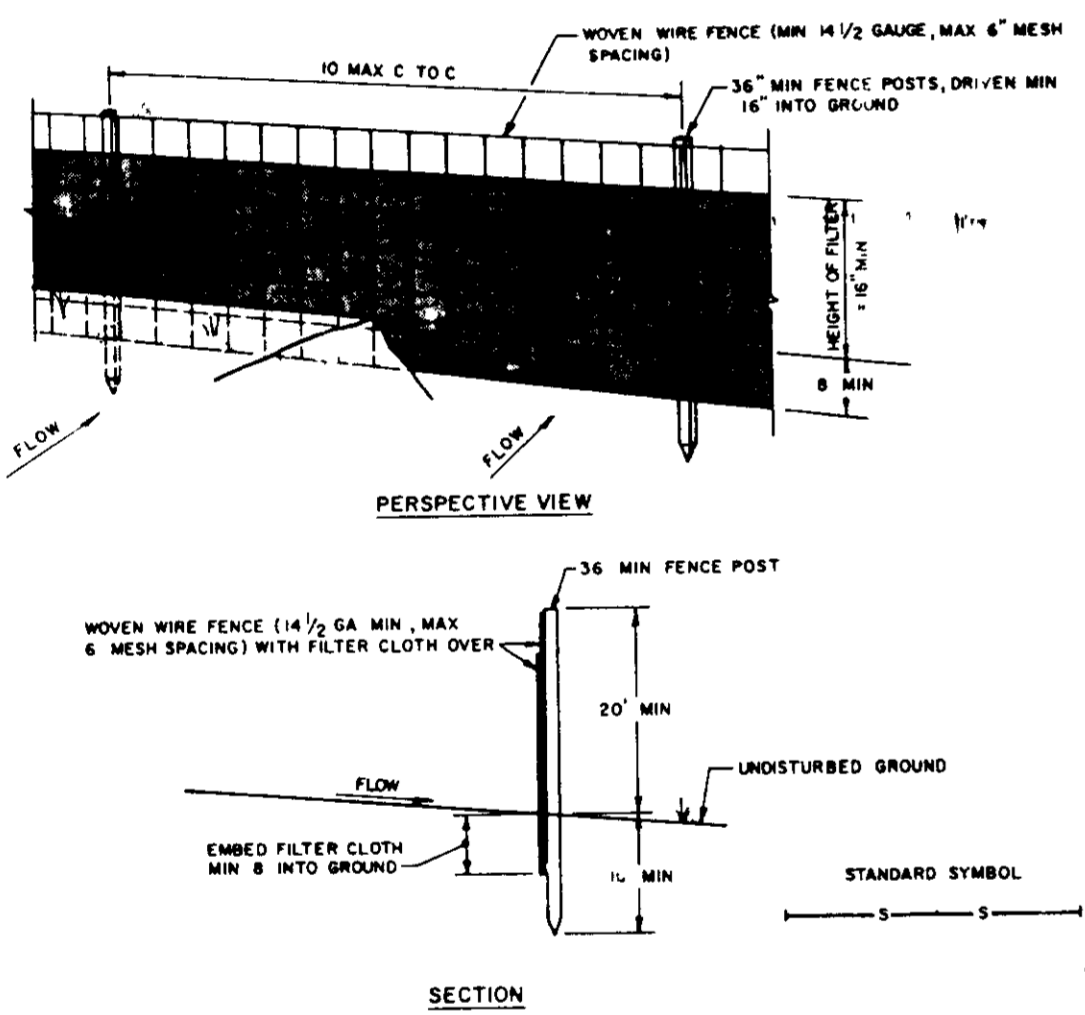


- OPTION A one foot layer of 2" stone may be placed on the upstream side of the riprap in place of the embedded filter cloth
- CONSTRUCTION SPECIFICATIONS FOR ST-VI**
- Area under embankment shall be cleared, grubbed and stripped of any vegetation and root mat. The pool area shall be cleared.
 - The fill material for the embankment shall be free of roots and other woody vegetation as well as oversized stones, rocks, organic material or other objectionable material. The embankment shall be compacted by traversing with equipment while it is being constructed.
 - All cut and fill slopes shall be 2:1 or flatter.
 - The stone used in the outlet shall be small riprap 4"-8" along with a 1" thickness of 2" aggregate placed on the upstream side on the small riprap embedded filter cloth in the riprap.
 - Sediment shall be removed and trap restored to its original dimensions when the sediment has accumulated to 1/2 the design depth of the trap.
 - The structure shall be inspected after each rain and repairs made as needed.
 - Construction operations shall be carried out in such a manner that erosion and water pollution is minimized.
 - The structure shall be removed and the area stabilized when the drainage area has been properly stabilized.



BLOCKED INLET
DETAIL
NO SCALE

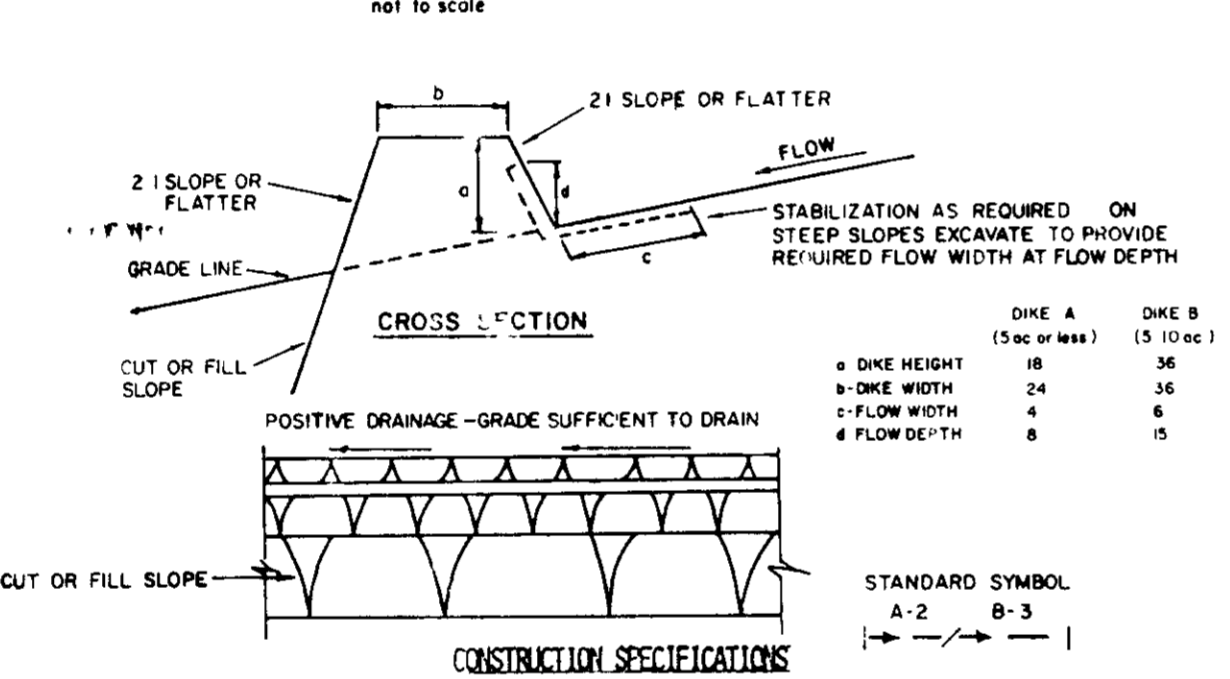
SILT FENCE



CONSTRUCTION NOTES FOR FABRICATED SILT FENCE

- Woven wire fence to be fastened securely to fence posts with wire ties or staples.
- Filter cloth to be fastened securely to woven wire fence with ties spaced every 24" at top and mid section.
- When two sections of filter cloth adjoin each other they shall be overlapped by six inches and folded.
- Maintenance shall be performed as needed and material removed when bulges develop in the silt fence.

EARTH DIKE
not to scale

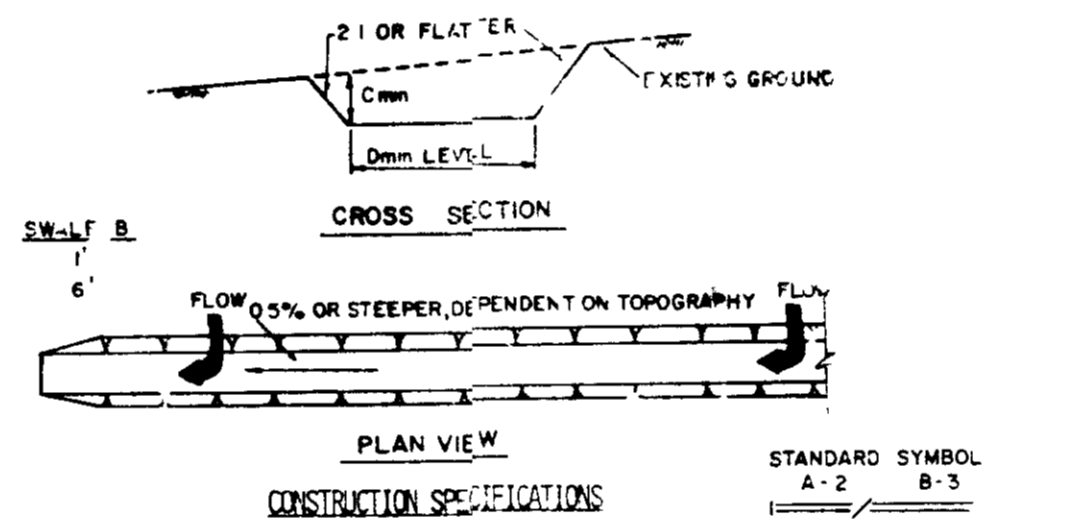


- All dikes shall be compacted by earth-moving equipment.
- All dikes shall have positive drainage to an outlet.
- Top width may be wider and side slopes may be flatter if desired to facilitate crossing by construction traffic.
- Field location should be adjusted as needed to utilize a stabilized safe outlet.
- Earth dikes shall have an outlet that functions with a minimum of erosion. Runoff shall be conveyed to a sediment trapping device such as a sediment trap or sediment basin where either the dike channel or the drainage area above the dike are not adequately stabilized.
- Stabilization shall be: (A) in accordance with standard specifications for seed and straw mulch or straw mulch if not in seeding season, (B) flow channel as per the chart below.

TYPE OF TREATMENT	CHANNEL GRADE	DIKE A	DIKE B
1	5-3.0%	SEED AND STRAW MULCH	SEED AND STRAW MULCH
2	3.1-5.0%	SEED AND STRAW MULCH	SEED USING JUTE, OR EXCELSIOR, SOD, 2" STONE
3	5.1-8.0%	SEED WITH JUTE, OR SOD, STONE	LINED RIP-RAP 4-8"
4	8.1-20%	LINED RIP-RAP 4-8"	ENGINEERING DESIGN

A. Stone to be 2 inch stone, or recycled concrete equivalent, in a layer at least 3 inches in thickness and be pressed into the soil with construction equipment.
 B. RIP-RAP to be 4-8 inches in a layer at least 8 inches thickness and pressed into the soil.
 C. APPROVED EQUIVALENTS CAN BE SUBSTITUTED FOR ANY OF THE ABOVE MATERIALS.
 7. PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED AFTER EACH RAIN EVENT.

TEMPORARY SWALE

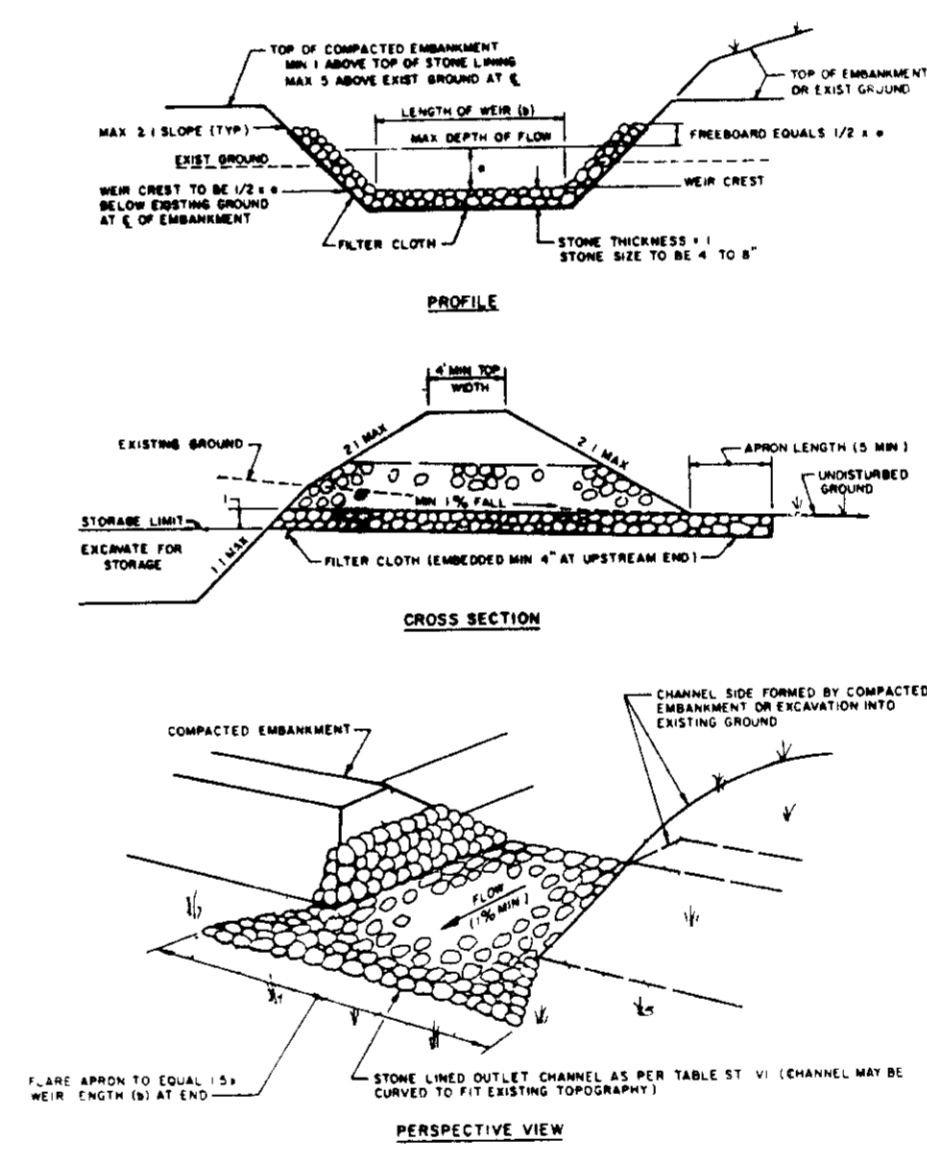


- TEMPORARY SWALES SHALL HAVE UNINTERRUPTED POSITIVE GRADE TO AN OUTLET.
- INVERTED RUNOFF FROM A DISTURBED AREA SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE.
- INVERTED RUNOFF FROM AN UNDISTURBED AREA SHALL OUTLET DIRECTLY TO AN UNDISTURBED STABILIZED AREA AT NON-EROSIVE VELOCITY.
- ALL TREES, BRUSH, STUMPS, OBSTRUCTIONS, AND OTHER OBJECTABLE MATERIAL SHALL BE REMOVED AND DISPOSED OF SO AS NOT TO INTERFERE WITH THE PROPER FUNCTIONING OF THE SWALE.
- THE SWALE SHALL BE EXCAVATED OR SHAPED TO LINE, GRADE, AND CROSS SECTION AS REQUIRED TO MEET THE CRITERIA SPECIFIED HEREIN AND BE FREE OF BANK PROJECTIONS OR OTHER IRREGULARITIES WHICH WILL IMPED NORMAL FLOW.
- FILLS SHALL BE COMPACTED BY EARTH MOVING EQUIPMENT.
- ALL EARTH REMOVED AND NOT NEEDED ON CONSTRUCTION SHALL BE PLACED SO THAT IT WILL NOT INTERFERE WITH THE FUNCTIONING OF THE SWALE.
- STABILIZATION SHALL BE AS PER THE CHART BELOW.

TYPE OF TREATMENT	CHANNEL GRADE	A (5 AC OR LESS)	B (5 AC - 10 AC)
1	0.5-3.0%	SEED AND STRAW MULCH	SEED AND STRAW MULCH
2	3.1-5.0%	SEED USING JUTE OR EXCELSIOR	SEED USING JUTE OR EXCELSIOR
3	5.1-8.0%	SEED WITH JUTE OR EXCELSIOR, SOD	LINED RIP-RAP 4-8"
4	8.1-20%	LINED 4-8" RIP-RAP	ENGINEERED DESIGN

9. PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED AFTER EACH RAIN EVENT.

RIPRAP OUTLET SEDIMENT TRAP ST-VI



- CONSTRUCTION SPECIFICATIONS FOR ST-VI**
- The area under embankment shall be cleared, grubbed and stripped of any vegetation and root mat. The pool area shall be cleared.
 - The fill material for the embankment shall be free of roots and other woody vegetation as well as oversized stones, rocks, organic material or other objectionable material. The embankment shall be compacted by traversing with equipment while it is being constructed. Maximum height of embankment shall be five (5) feet, measured at centerline of embankment.
 - All fill slopes shall be 2:1 or flatter, cut slopes 1:1 or flatter.
 - Elevation of the top of any dike directing water into trap must equal or exceed the height of embankment.
 - Storage area provided shall be figured by computing the volume available behind the outlet channel up to an elevation of one (1) foot below the level near crest.
 - Filter cloth shall be placed over the bottom and sides of the outlet channel prior to placement of stone. Sections of fabric must overlap at least one (1) foot with section nearest the entrance placed on top. Fabric shall be embedded at least six (6) inches into existing ground at entrance of outlet channel.
 - Stone used in the outlet channel shall be four (4) to eight (8) inches (riprap). To provide a filtering effect, a layer of filter cloth shall be embedded one (1) foot back into the upstream face of the outlet stone or a one (1) foot thick layer of two (2) inch or finer aggregate shall be placed on the upstream face of the outlet.
 - Sediment shall be removed and trap restored to its original dimensions when the sediment has accumulated to 1/2 the design depth of the trap. Removed sediment shall be deposited in a suitable area and in such a manner that it will not erode.
 - The structure shall be inspected after each rain and repaired as needed.
 - Construction operations shall be carried out in such a manner that erosion and water pollution are minimized.
 - The structure shall be removed and the area stabilized when the drainage area has been properly stabilized.
 - Drainage area for this practice is limited to 15 acres or less.

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT

10-14-88
DATE

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE
STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

10/16/88
DATE

10-4-88
DATE

APPROVED, HOWARD COUNTY OFFICE OF PLANNING AND ZONING

10-08-88
DATE

11-17-88
DATE

OWNER AND DEVELOPER
THE HOWARD RESEARCH AND DEVELOPMENT LAND COMPANY
10275 LITTLE PATUXENT PARKWAY
COLUMBIA MARYLAND 21043

WHITMAN REQUARDT AND ASSOCIATES
ENGINEERS
2315 SAINT PAUL STREET
BALTIMORE MARYLAND 21218

Kenneth A. McCord, P.E. No. 1974

SEQUENCE OF CONSTRUCTION

- OBTAIN GRADING PERMIT.
- INSTALL SIX STABILIZED CONSTRUCTION ENTRANCES.
- CONSTRUCT SEDIMENT TRAPS 1 THRU 6, EARTH DIKES, SILT FENCE AND TEMPORARY SWALE.
- STABILIZE EARTH DIKES WITH TEMPORARY SEEDING. SEE SPECIFICATIONS ON THIS SHEET.
- ROUGH GRADE ENTIRE SITE.
- CONSTRUCT ALL UTILITIES EXCEPT STORM DRAIN PIPES AND STRUCTURE WITHIN TRAPS 4 AND 5 AND STORM DRAIN PIPE BETWEEN EXISTING I-22 AND NEW I-24.
- BLOCK INLETS I-7 AND I-8. PLACE STRAW BALES AROUND I.G.
- BEGIN BUILDING CONSTRUCTION.
- FINE GRADE ROADS, CONSTRUCT CURB AND OUTER SIDEWALKS AND SEED DISTURBED AREAS WITH PERMANENT SEEDING. SEE SPECIFICATIONS THIS SHEET.
- PAVE ROADS.
- AFTER GRASS IS ESTABLISHED IN THE CONTRIBUTING DRAINAGE AREAS AND WITH PERMISSION OF THE SEDIMENT CONTROL INSPECTOR THE INTERRUPTED STORM DRAINS MAY BE COMPLETED, THEN ALL SEDIMENT CONTROL FACILITIES MAY BE REMOVED.
- STABILIZE "SEDIMENT TRAP REMOVAL AREAS" WITH PERMANENT SEEDING. SEE SPECIFICATIONS THIS SHEET.

NO	DATE	DESCRIPTION OF REVISION
2	9/1/88	As per Planning and DPW Comments
1	7/25/88	As per Planning, DPW and SCC Comments

DORSEY HALL
-SITE DEVELOPMENT PLAN-
SECTION 2 AREA 4
PARCEL "L"
(VILLAGE CENTER)

SEDIMENT CONTROL DETAILS

SHEET 12 OF 14

ELECTION DISTRICT NO 2
HOWARD COUNTY MARYLAND
DATE 4/25/88 SCALE As Shown

By the Developer:

"I/we certify that all development and construction will be done according to this plan, and 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. I also authorize periodic on-site inspection by the Howard Soil Conservation District."

Gregory R. Blair
Date 4-25-88

Reviewed for HOWARD S.C.D. and meet Technical Requirements

J. S. McLaughlin
S.S. Soil Conservation Service
Date 9/16/88

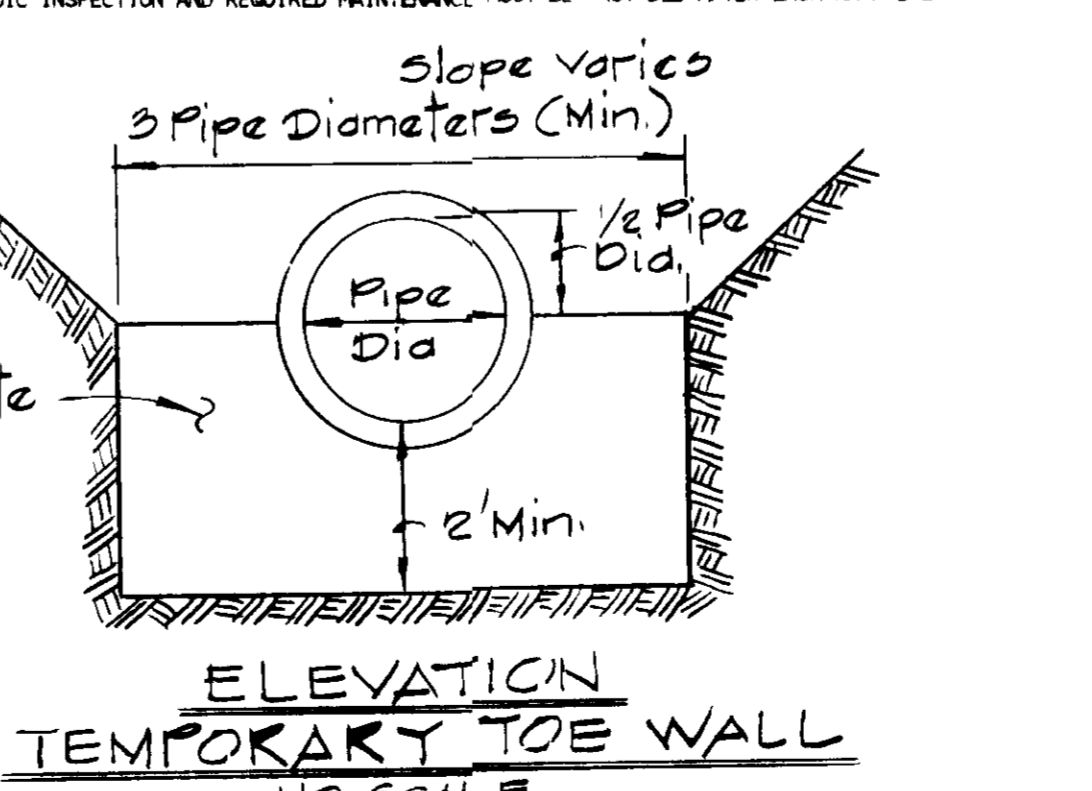
THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

Stephen L. Johnson
Howard S.C.D.
Date 9/15/88

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
Date 4-25-88



ELEVATION
TEMPORARY TOE WALL
NO SCALE



APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
 HOWARD COUNTY HEALTH DEPARTMENT

[Signature] 10/14/88
 DIRECTOR DATE

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE
 STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

[Signature] 10/15/88
 DIRECTOR DATE

[Signature] 10-4-88
 CHIEF BUREAU OF ENGINEERING DATE

APPROVED HOWARD COUNTY OFFICE OF PLANNING AND ZONING

[Signature] 10-20-88
 PLANNING DIRECTOR DATE

[Signature] 11-23-88
 CHIEF DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

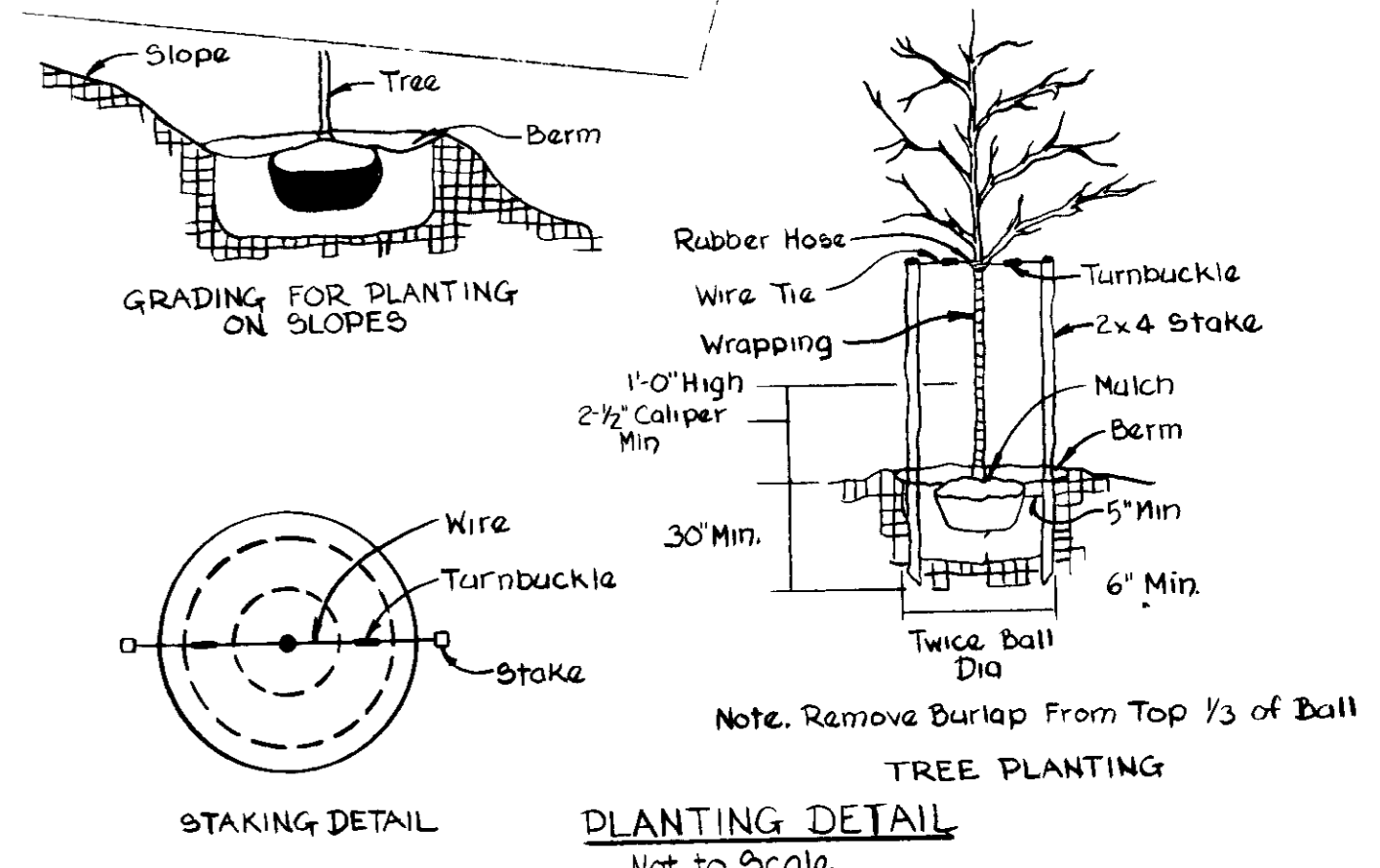
8-31-88
 LWS

LIGHTING LEGEND

SYMBOL	QUANTITY	MFG. & CAT. NO.	HEIGHT	COLOR
■	10	GARDCO/VALMONT POLE H1913-400 M.H./DS210-6.6A 300	30'	DARK DIRONODIC BRONZE
■	13	GARDCO/VALMONT POLE H1923-400 M.H./DS210-6.6A 300	30'	DARK DIRONODIC BRONZE

LANDSCAPING LEGEND

SYMBOL	DESCRIPTION	SIZE	QUANTITY
○	OVERHEAD CANOPY TREE i.e. MAPLE, ASH OR SWEETGUM	2 1/2" - 3" MIN. 12' - 14' HT	258
○	INTERMEDIATE FOCUS TREE i.e. CHERRY FLOWERING, HAWTHORN, MAGNOLIA, FLOWERING CRAB	8" - 10" HT. 2" - 2 1/2" C	96
○	EVERGREEN (CONIFER) i.e. WHITE PINE, NORWAY SPRUCE	6' - 8' HT.	65
○	EXISTING STREET TREES	12' - 14' HT.	



OWNER AND DEVELOPER
 THE HOWARD RESEARCH AND
 DEVELOPMENT LAND COMPANY
 10275 LITTLE PATUXENT PARKWAY
 COLUMBIA MARYLAND 21043

WHITMAN REQUARDT AND ASSOCIATES
 ENGINEERS
 2315 SAINT PAUL STREET
 BALTIMORE MARYLAND 21218

[Signature]
 KENNETH A. REQUARDT

DORSEY HALL
 -SITE DEVELOPMENT PLAN
 SECTION 2 AREA 4
 PARCEL "L"
 VILLAGE CENTER

LIGHTING AND LANDSCAPE PLAN

SHEET 13 OF 14

ELECTION DISTRICT NO 2
 HOWARD COUNTY MARYLAND

DATE 4/25/88 SCALE 1"=50'

LEGEND AND SYMBOLS - GREEN
WHITE SYMBOL ON BLUE BACKGROUND
BACKGROUND - WHITE

FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT

10-14-88

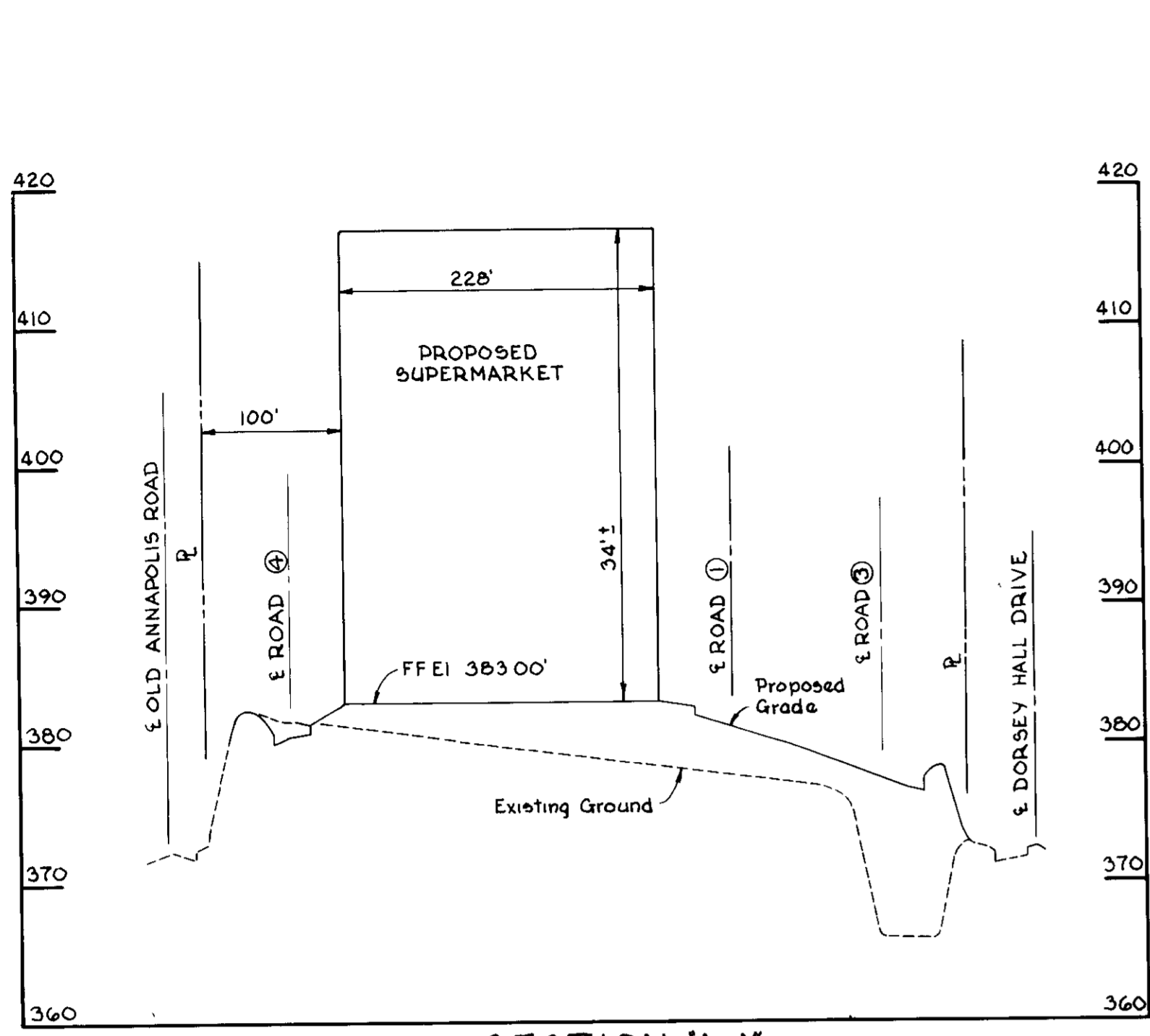
APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE
STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

James M. ... 10/16/88
DIRECTOR DATE

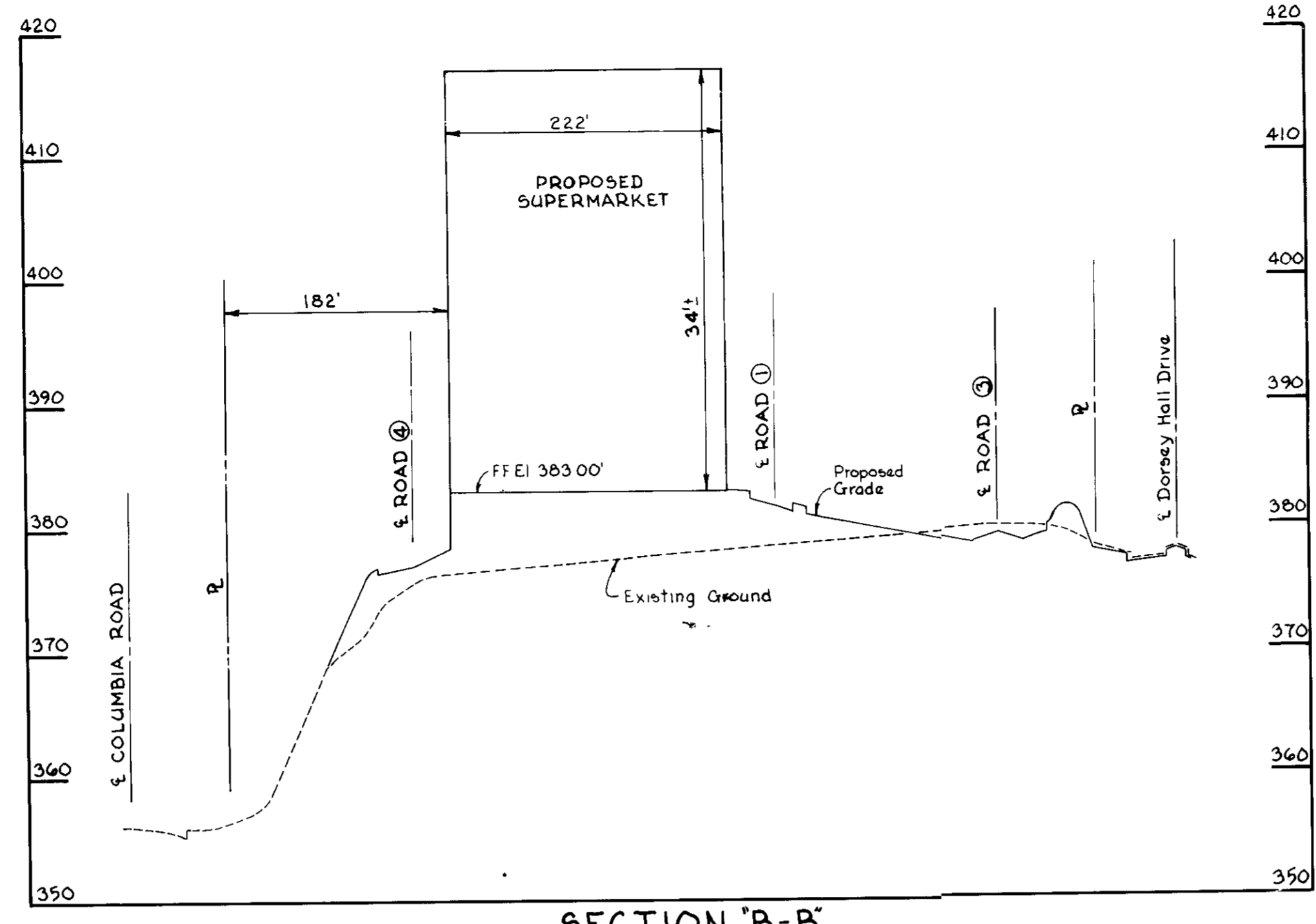
William E. Riley 10-4-88
CHIEF BUREAU OF ENGINEERING DATE

APPROVED HOWARD COUNTY OFFICE OF PLANNING AND ZONING
PLANNING DIRECTOR 10-20-88
DATE

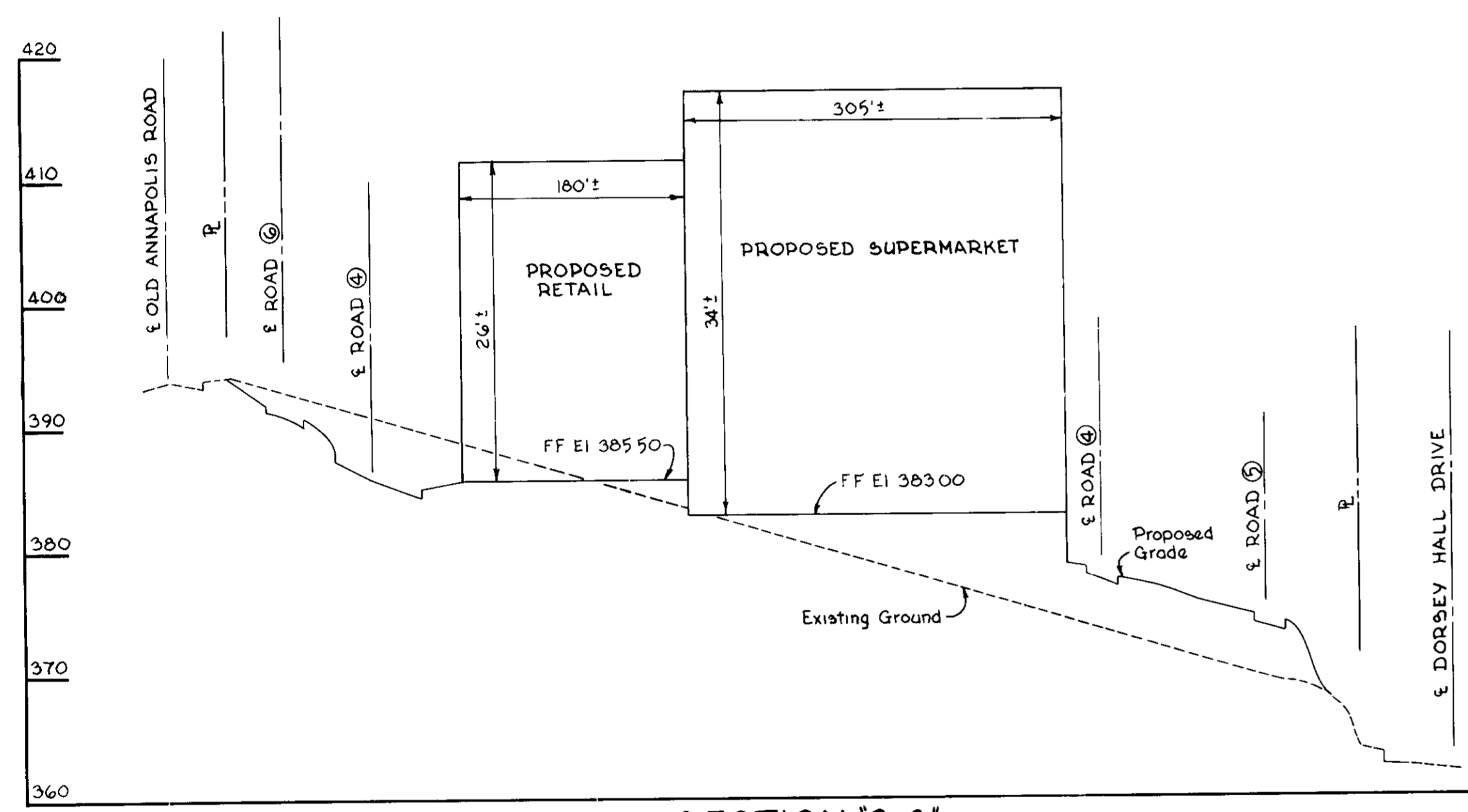
Janice J. ... 11-17-88
CHIEF DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE



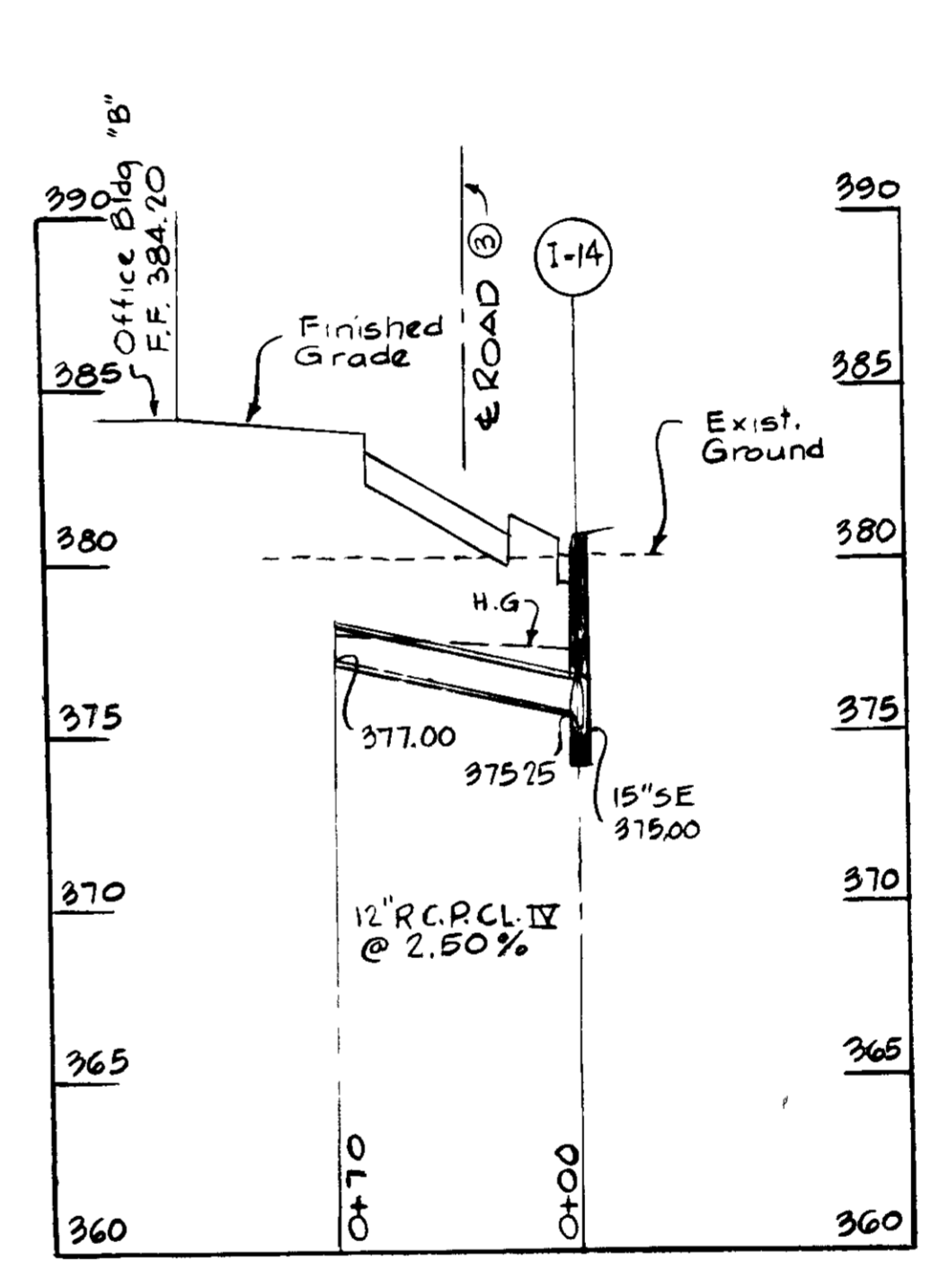
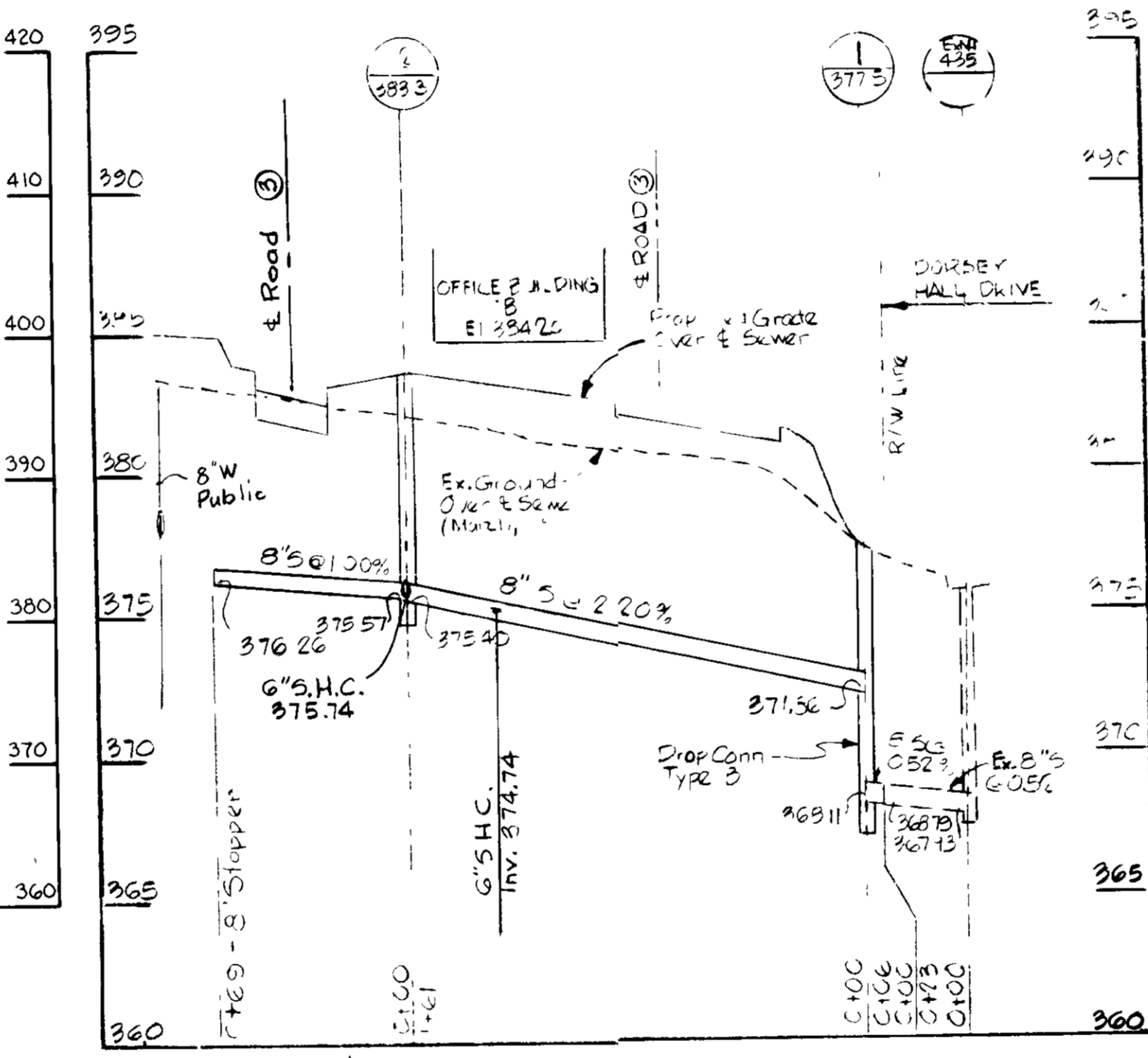
SECTION 'A-A'



SECTION 'B-B'



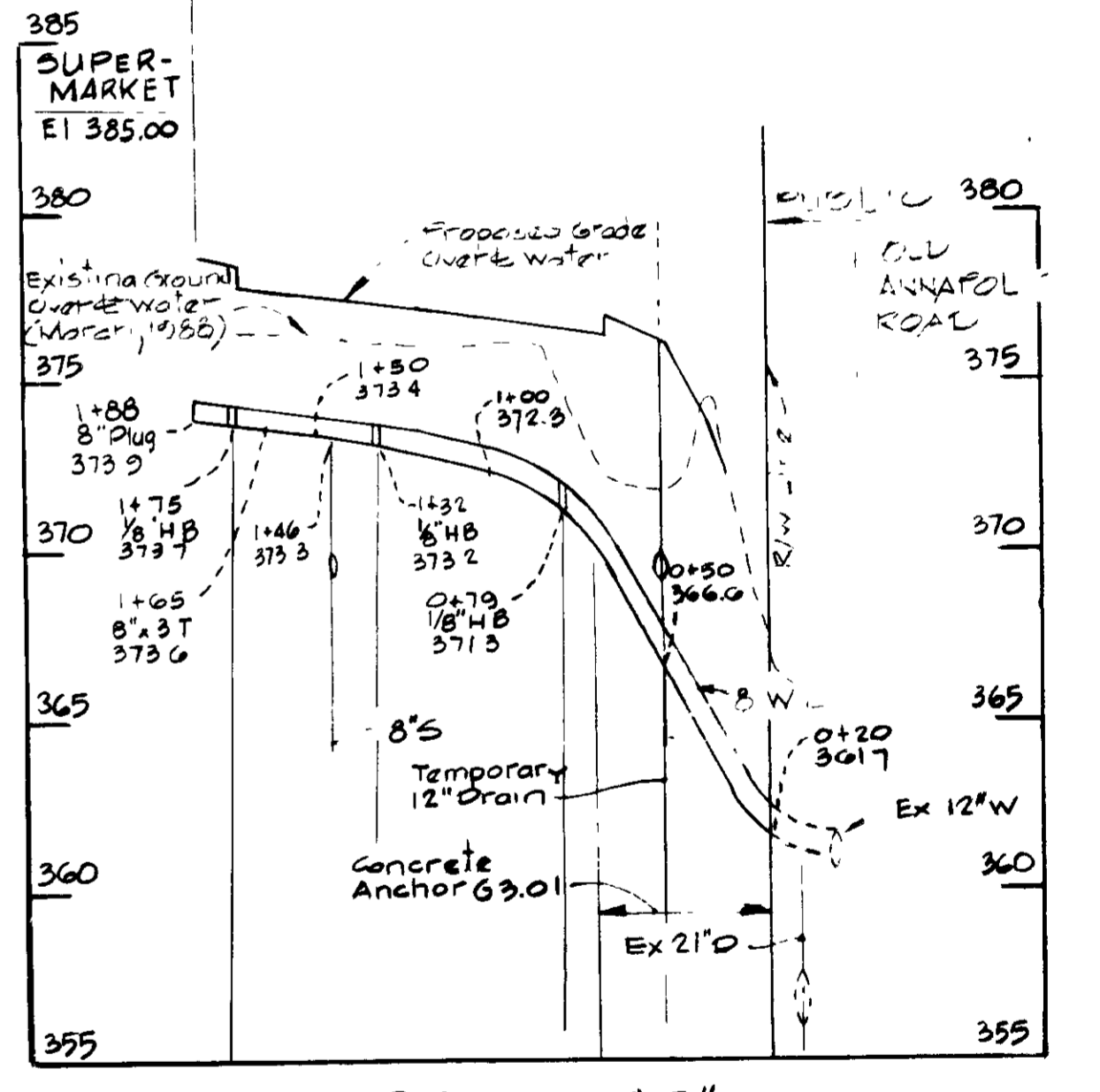
SECTION 'C-C'



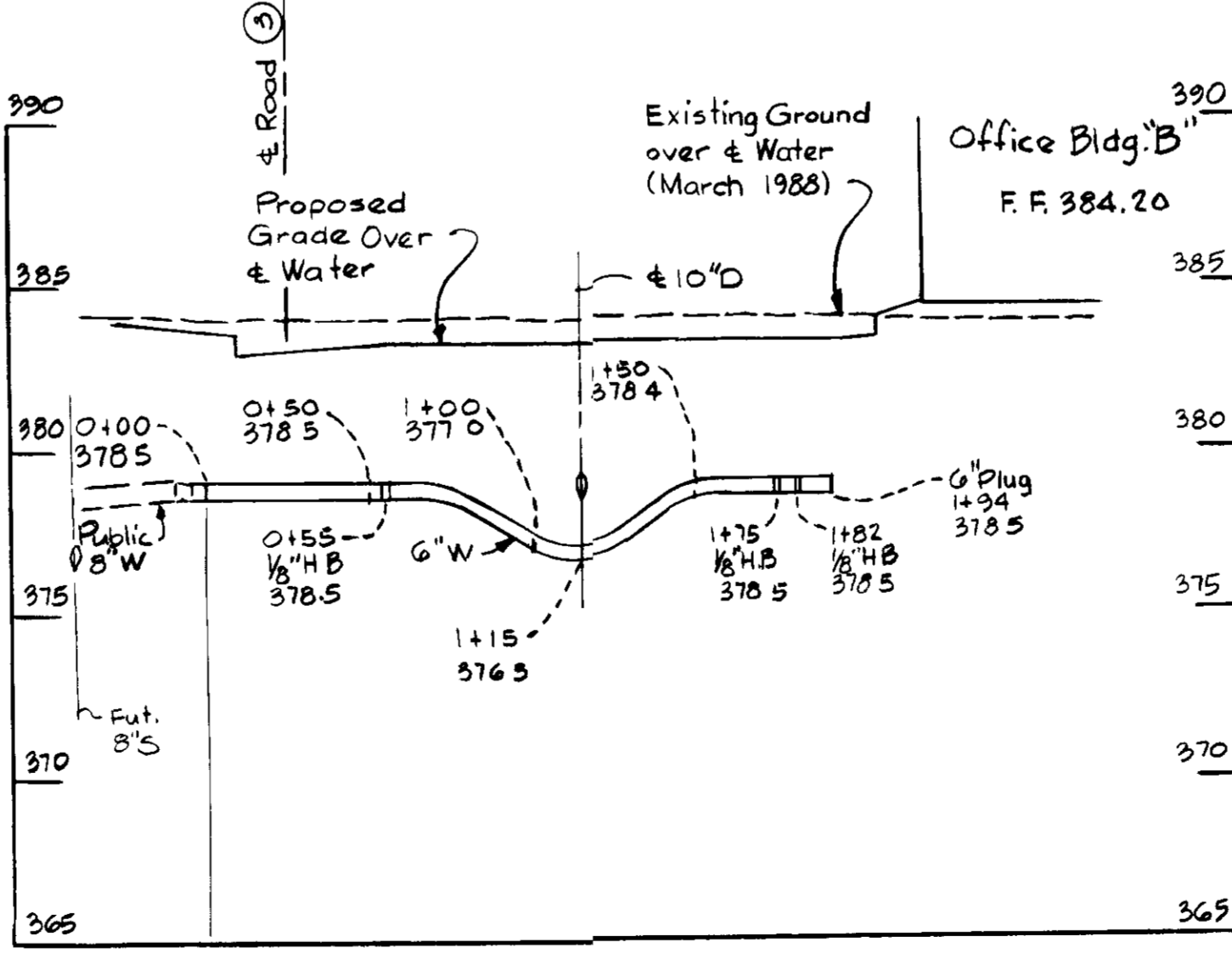
OWNER AND DEVELOPER
THE HOWARD RESEARCH AND
DEVELOPMENT LAND COMPANY
10275 LITTLE PATUXENT PARKWAY
COLUMBIA MARYLAND 21044

WHITMAN REQUART AND ASSOCIATES
ENGINEERS
2315 SAINT PAUL STREET
BALTIMORE MARYLAND 21218

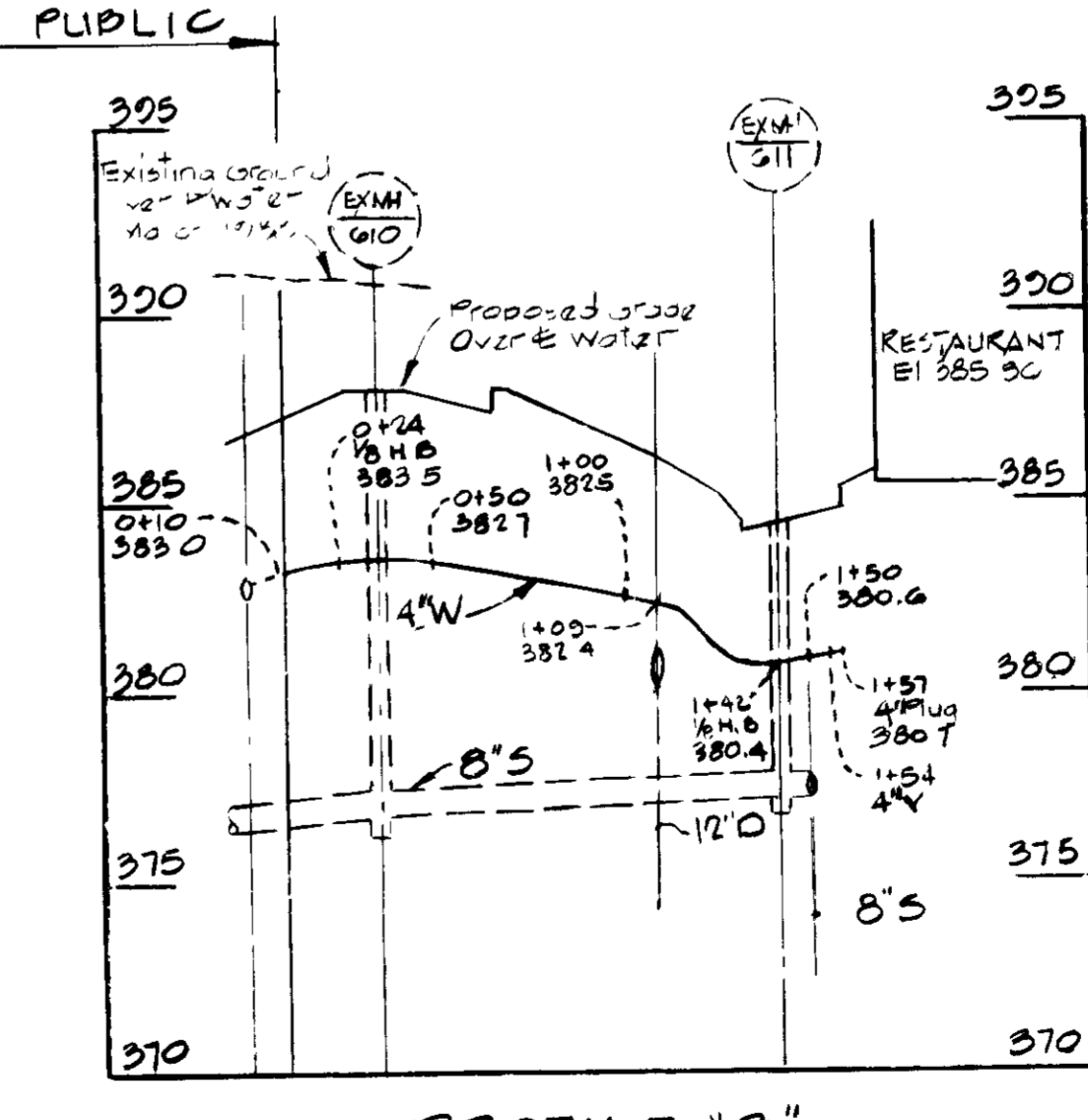
Kenneth A. McLeod
KENNETH A. MCLEOD, P.E.



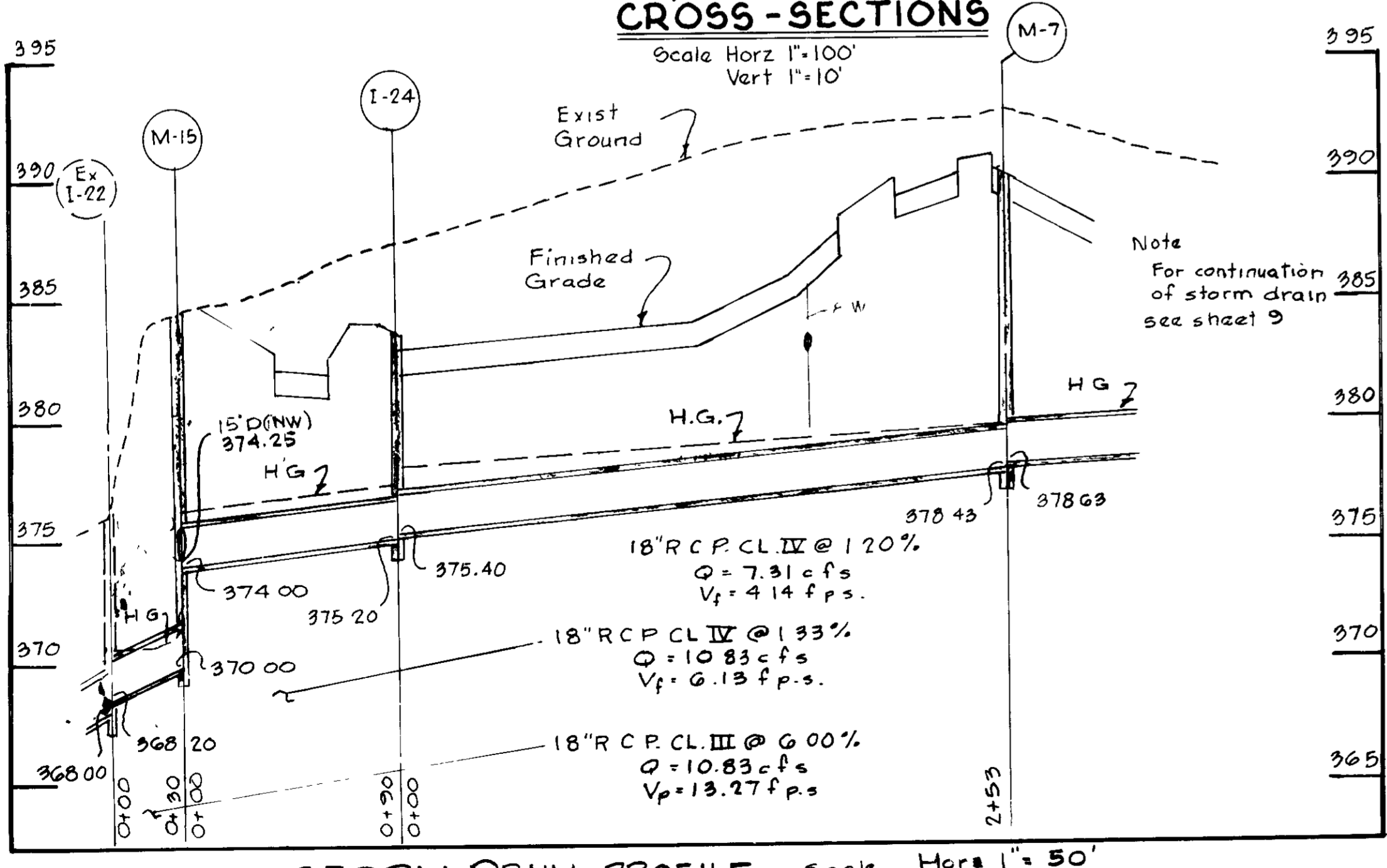
PROFILE 'F'



PROFILE 'J'



PROFILE 'B'



STORM DRAIN PROFILE Scale: Horz 1" = 50' Vert 1" = 5'

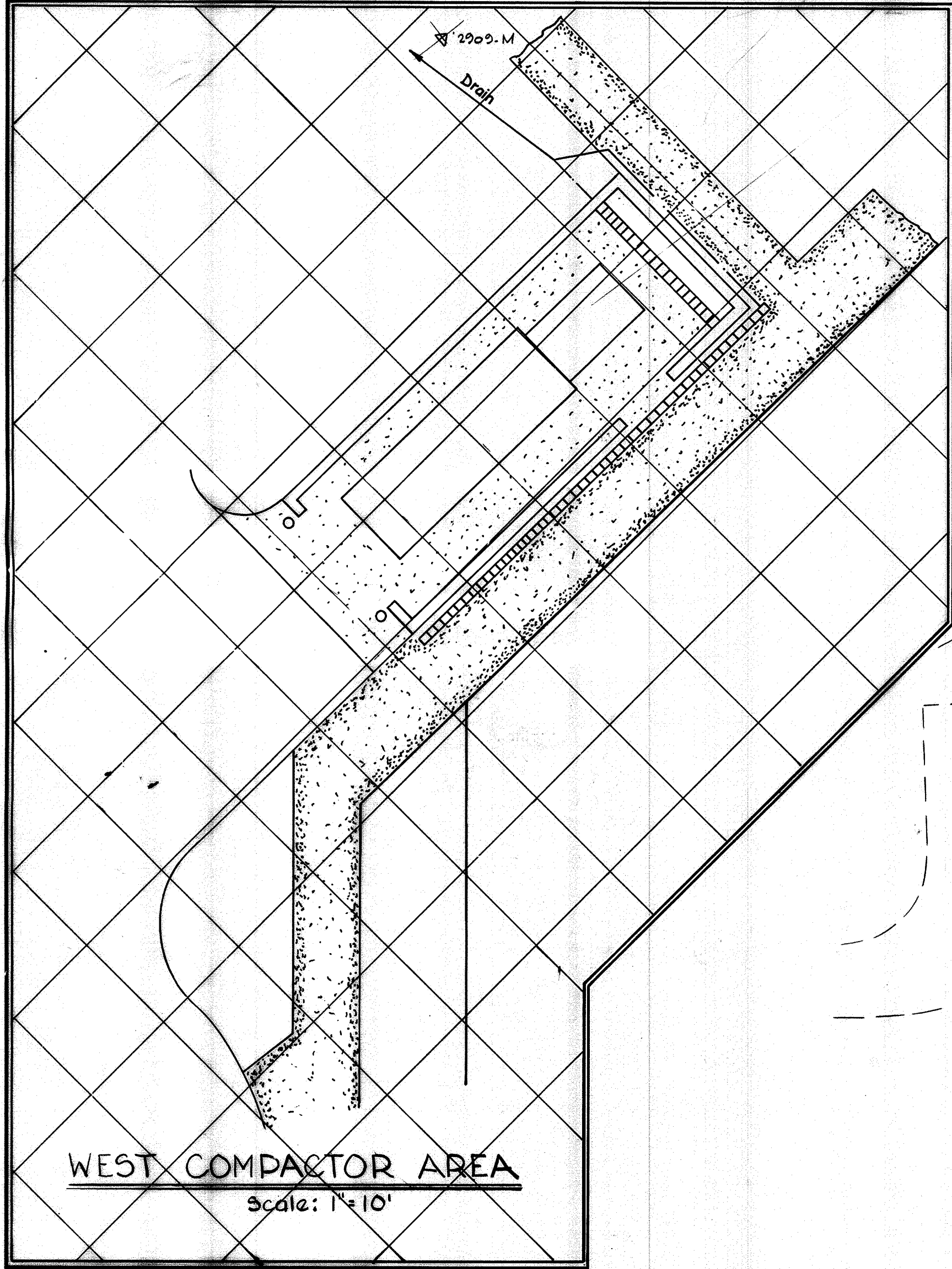
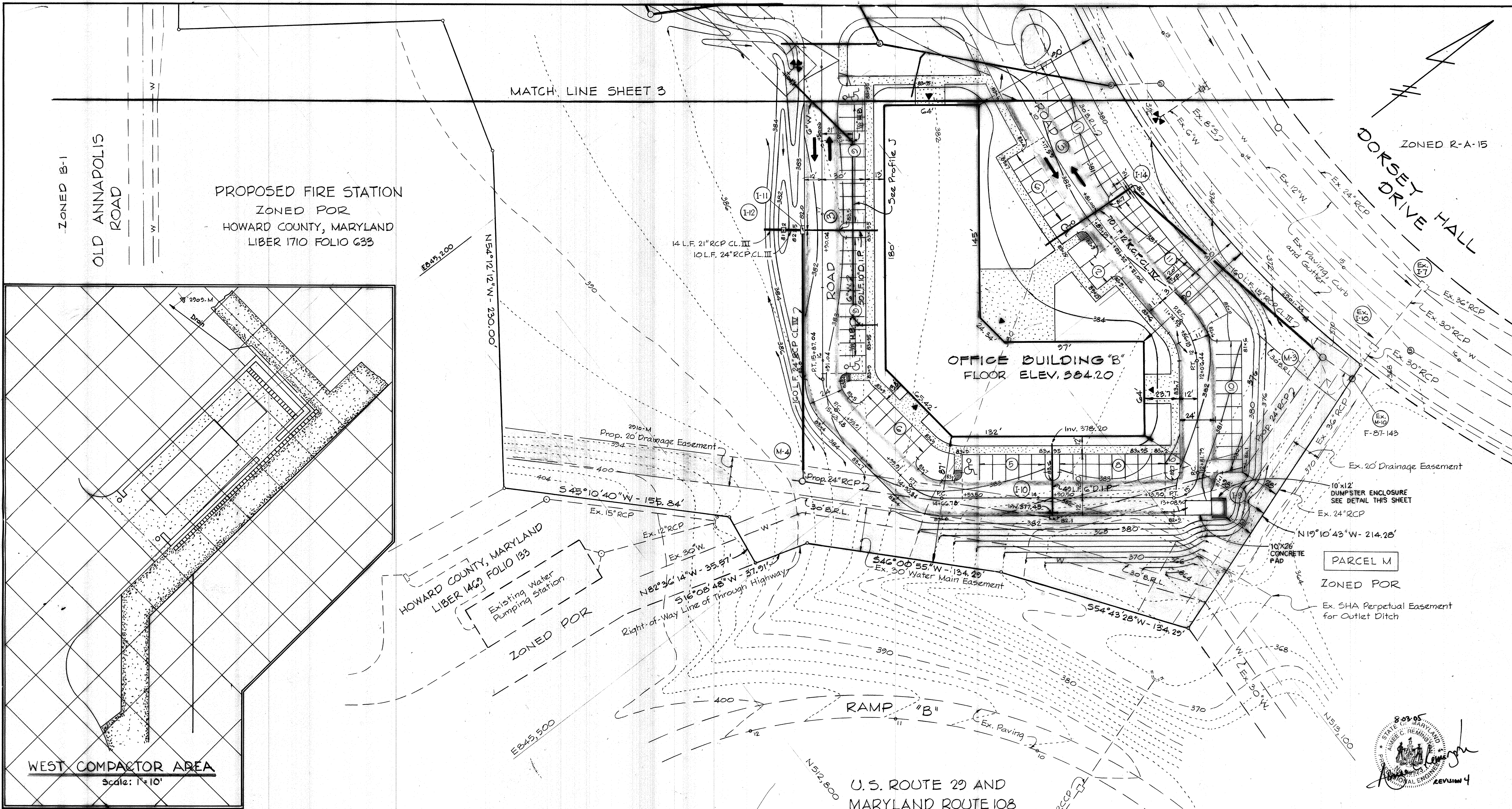
2 2/12/88 Minor Adjustments
1 2/1/88 As per Planning and DPW Comments
NO DATE DESCRIPTION OF REVISION

DORSEY HALL
SITE DEVELOPMENT PLAN
SECTION 2-A-1
PARCEL 'L'
W. AN CENTER

CROSS-SECTIONS, DETAILS, WATER, SEWER
AND STORM DRAIN PROFILES

SHEET 14 OF 14

HOWARD COUNTY MARYLAND
7/25/88 AS SHOWN



APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS,
HOWARD COUNTY HEALTH DEPARTMENT.

[Signature] 10-14-81
COUNTY HEALTH OFFICER DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE
STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

[Signature] 10-14-81
DIRECTOR DATE

[Signature] 10-14-81
CHIEF, BUREAU OF ENGINEERING DATE

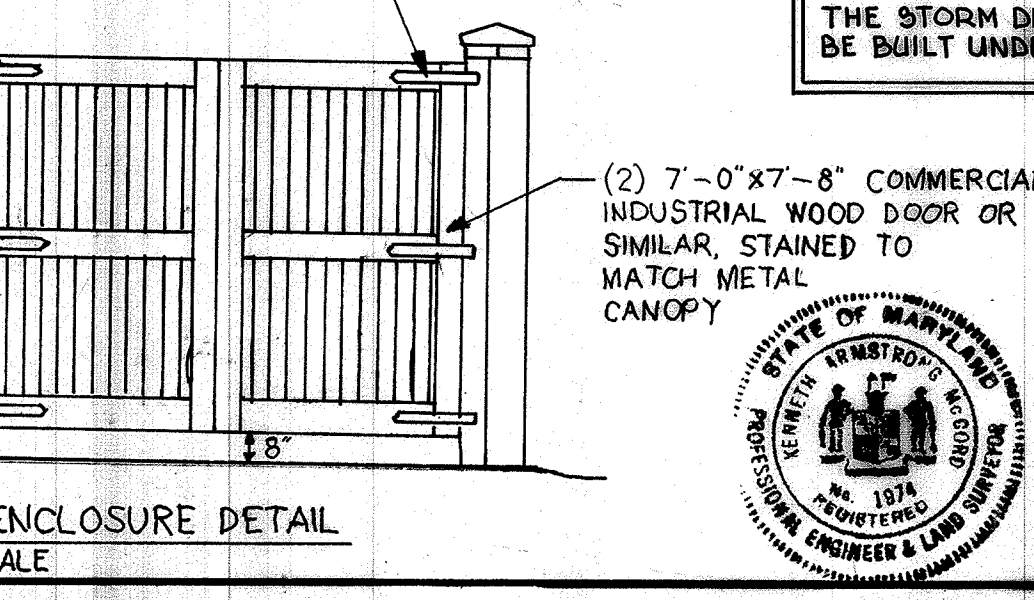
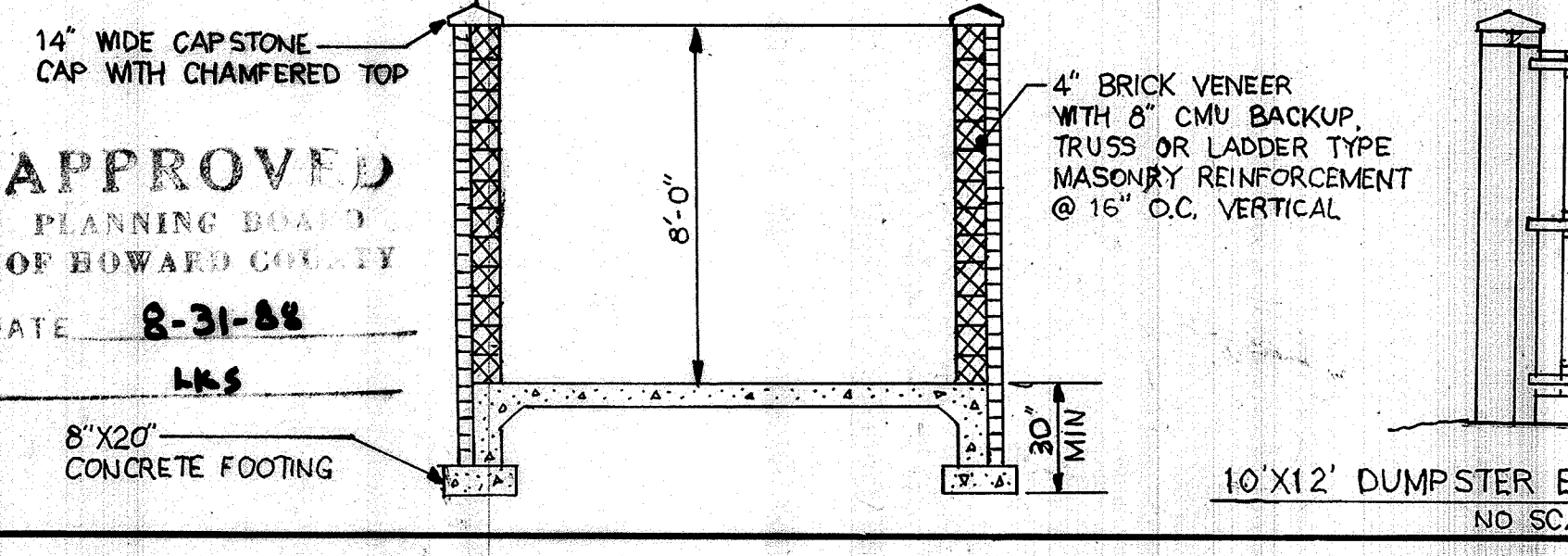
APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

[Signature] 10-20-81
PLANNING DIRECTOR DATE

[Signature] 11-17-81
CHIEF, DIVISION OF COMMUNITY
PLANNING AND LAND DEVELOPMENT DATE

STORM DRAIN STRUCTURE SCHEDULE

NO.	TYPE	TOP EL.	INV. IN	INV. OUT	LOCATION
I-11	A-5 Inlet (Width 25') S.D. 4.01	382.00	376.59	376.39	± Inlet 13.92' Left of Sta. 16+90.04
I-12	5" Inlet S.D. 4.22	381.20	376.85	376.65	± Inlet 25.92' Left of Sta. 16+90.04
I-14	A-5 Inlet (Width 25') S.D. 4.01	381.00	-	375.00	± Inlet 32.92' Left of Sta. 10+81



NOTE:
THE WATER AND SEWER DESIGNATED AS "PROPOSED"
WILL BE BUILT UNDER CONTRACT 24-1833-D
THE STORM DRAINS DESIGNATED AS "PROPOSED" WILL
BE BUILT UNDER F-88-241

U.S. ROUTE 29 AND
MARYLAND ROUTE 108
INTERCHANGE AREA

NO.	DATE	DESCRIPTION OF REVISION
4	8-03-85	1 DUMPSTER PAD ADDED
3	9/12/88	Minor Adjustments
2	9/1/88	As per Planning and DPW Comments
1	7/25/88	As per Planning, DPW and SCS Comments

DORSEY HALL
-SITE DEVELOPMENT PLAN-
SECTION 2 AREA 4
PARCEL "L"
(VILLAGE CENTER)
GRADING PLAN
SHEET 4 OF 14

ELECTION DISTRICT NO. 2
HOWARD COUNTY, MARYLAND
DATE: 4/25/88 SCALE: 1" = 30'

WHITMAN, REOURDT AND ASSOCIATES
-ENGINEERS-
2315 SAINT PAUL STREET
BALTIMORE, MARYLAND 21218
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