

SITE ANALYSIS

- PRESENT ZONING: NEWTOWN COMMERCIAL
- TOTAL AREA OF SITE: --- PARCEL A-1 14.163 AC.

1. GROSS BUILDING AREA RETAIL/GIANT	100,650 S.F. 2,311 A.C.	5. PARKING SPACES:
2. % OF SITE: BUILDING AREA	2,311	A. REQUIRED BY FDP
MAX. 30%	SITE AREA 14.163	OFFICE 3/1000S.F. X 9,400 = 29
3. GREEN AREA	3.94 ACRES	RETAIL 5/1000S.F. X 67,700 = 339
GREEN AREA	3.94	TOTAL = 368
SITE AREA	14.163	B. REQUIRED ZONING
		FAST FOOD 1/3 SEATS X 15-1/2EMP X 12 = 18
		RETAIL 1/200 S.F. X 26,900 = 135
		OFFICE 1/200 S.F. X 9,400 = 47
		RETAIL FOOD 1/150 S.F. X 36,000 = 240
		TOTAL = 440
		C. TOTAL PROVIDED = 505*
		* INCLUDES 12 HANDICAP SPACES
4. MAXIMUM BUILDING HEIGHTS		6. PAVED AREA: 10,223 AC = 72.2%
MAX. 40'	34 FEET	
SUPERMARKET	34 FEET	
RETAIL		

LEGEND

- 380 — EXISTING CONTOUR
- 38c — PROPOSED CONTOUR
- F.F. 000.0 PROPOSED FINISHED FLOOR ELEVATION
- 380XC PROPOSED SPOT ELEVATION
- UTILITIES NOT IN CONTRACT
- TC/BC TOP CURB / BOTTOM CURB
- CONCRETE WALKS
- EXISTING CURB (TO BE REMOVED)
- PAINTED LINES
- 7" CONCRETE CURB AND CUTTER
- "RESERVED FOR HANDICAPPED PERSONS" (INDICATED)
- HR HANDICAPPED RAMP
- HANDICAPPED SIGN
- BUILDING ENTRANCE
- TRAFFIC FLOW
- CLEANOUT
- LIGHT POLE

BENCH MARKS

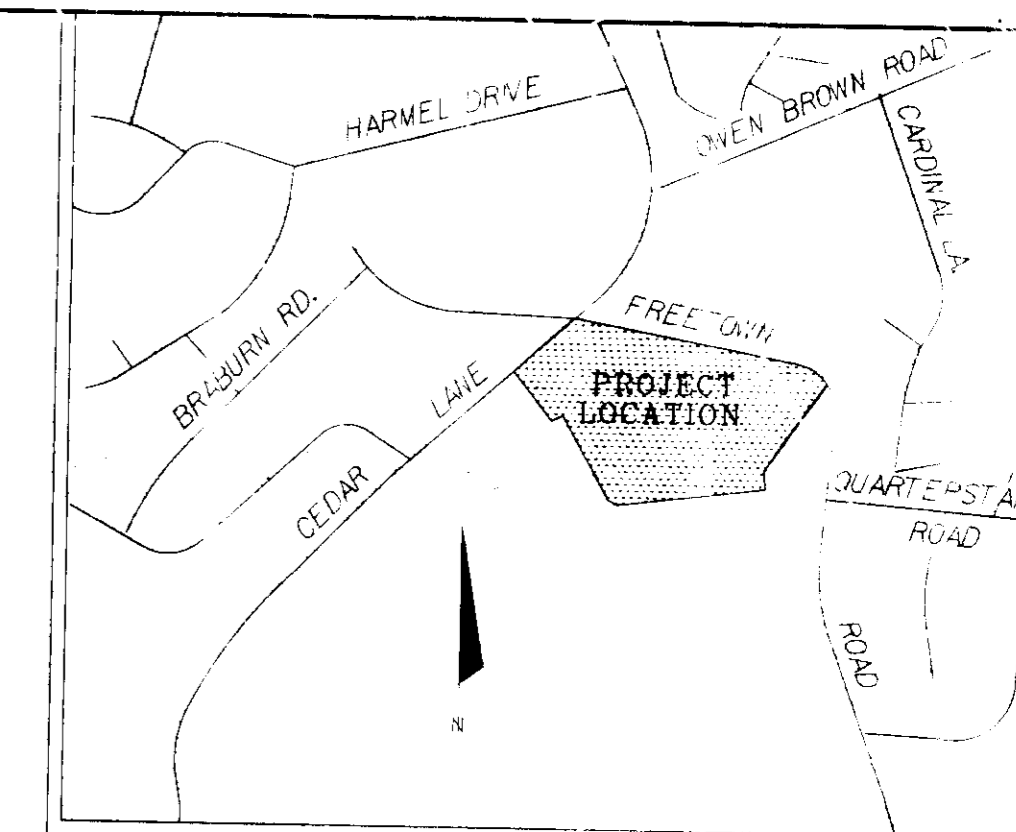
- HOWARD CO. MON. #2439001 ELEV. 418.615
- HUB & TACK EDGE WEST PAVEMENT FREETOWN ROAD AT INTERSECTION WITH QUARTERSTAFF ROAD.
- HOWARD CO. MON. #2440001 ELEV. 420.849
- HUB & TACK 60' SOUTH OF C&P POLE #162272 AND 8' EAST EDGE OF PAVEMENT FREETOWN ROAD.

GENERAL NOTES

- RECORDING REFERENCE IS PLAT # 9739 & 9740, AND RESUBDIVISION PLATS
- SEE ARCHITECTURAL PLANS FOR DETAILS OF PROPOSED BUILDINGS AND PLAZA AREA.
- ALL SITE WORK CONSTRUCTION TO BE DONE IN ACCORDANCE WITH HOWARD COUNTY DESIGN MANUAL - VOLUME IV STANDARD SPECIFICATIONS AND DETAIL FOR CONSTRUCTION.
- PUBLIC WATER AND PUBLIC SEWER TO BE UTILIZED.
- REFER TO DPZ FILE NOS. S-88-115, WP-89-71, AND WP-92-29. F-90-97, F-90-116, PB-243 AND FDP-205, PART 1, AND WP91-01, AND F-92-20.
- GRADES HAVE BEEN ESTABLISHED TO ENSURE POSITIVE DRAINAGE.
- ONE HANDICAPPED PARKING SIGN SHALL BE PLACED AT EACH HANDICAPPED PARKING SPACE IN ACCORDANCE WITH REQUIREMENTS OF THE MARYLAND BUILDING CODE.
- STORMWATER MANAGEMENT PONDS HAVE BEEN CONSTRUCTED UNDER F-90-97 (SEE SITE PLANS).
- ALL EXISTING FACILITIES ADJACENT TO THIS SITE WERE CONSTRUCTED UNDER F-90-97 AND F-90-116, UNLESS OTHERWISE NOTED.
- WATER QUALITY PROVIDED BY THE EXISTING SWM PONDS. REFERENCE F-90-97.
- REFERENCE AND LOCATE EXISTING HOWARD COUNTY MONUMENTS.
- DUMSTERS ARE LOCATED AS SHOWN.
- FOR FAST-FOOD RESTAURANT AND DRIVE-THRU BANK STACKING LANES, SEE DETAIL ON SHEET 9.
- FOR PLAN OF ROADWAY AND PARKING LOT PAVING SECTIONS, SEE SHEET 9.
- FOR DUMPSTERS SCREENING WALLS, SEE ARCHITECTURAL DUMPSTER DETAILS.
- 12" PVC DRAIN PIPE SHALL MEET THE REQUIREMENTS OF ASTM D-3034. FINAL LOCATION OF PARKING LOT LIGHT POLES ARE SUBJECT TO CHANGE. CONTRACTOR SHALL CONTACT THE OWNER/DEVELOPER FOR ACTUAL NUMBER AND LOCATION.

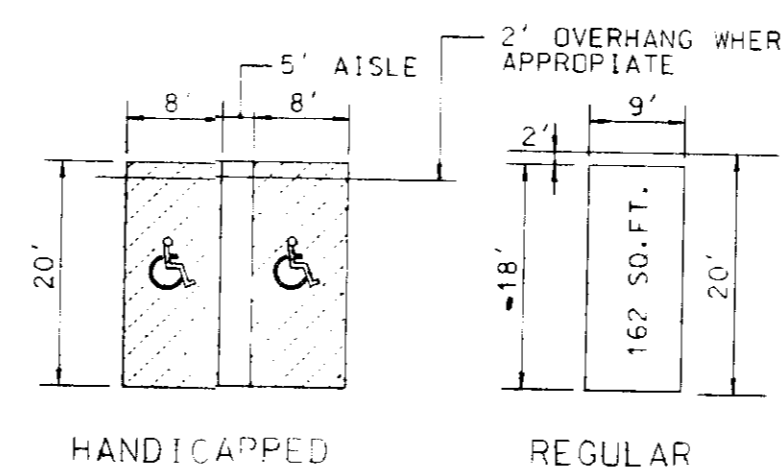
SHEET INDEX

1	TITLE SHEET
2	SITE PLAN
3	SITE PLAN
4	SITE PLAN
5	STAKEOUT PLAN
6	STAKEOUT PLAN
7	STAKEOUT PLAN
8	ROADWAY, STORMDRAINS, RAMP DETAILS AND SEWER PROFILES
9	DETAILS, SANITARY SEWER PROFILES
10	DRAINAGE AREA MAP
11	STORM DRAIN PROFILES
12	STORM DRAIN PROFILES
13	SEDIMENT CONTROL PLAN
14	SEDIMENT CONTROL PLAN
15	SEDIMENT CONTROL DETAILS
16	LANDSCAPE PLANS
17	LANDSCAPE PLANS
18	LANDSCAPE PLANS



VICINITY MAP

SCALE: 1" = 200'



TYPICAL PARKING SPACE

NO SCALE

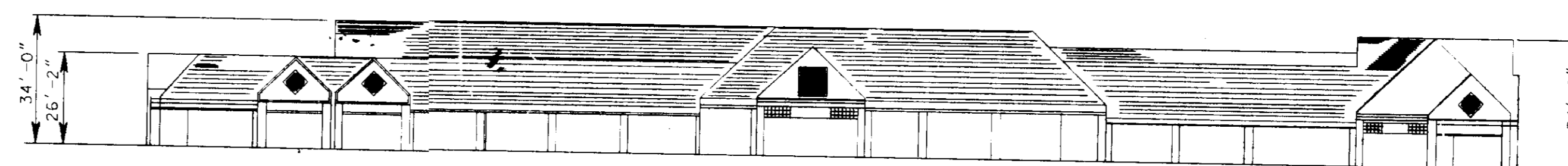
ADDRESS CHART

PARCEL	STREET ADDRESS
A-1	FREETOWN RD
BLDG. 1	6480 "
BLDG. 2	6470 "
BLDG. 3	6420 "
BLDG. 4	6430 "
BLDG. 5	6410 "
BLDG. 6	6400 "

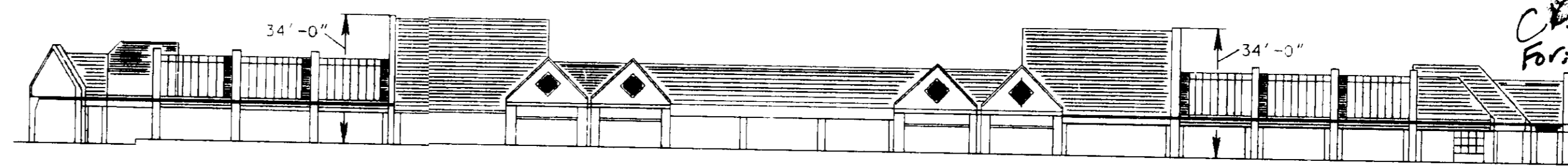
SEE INSERT PLAN THIS SHEET

NOTE:

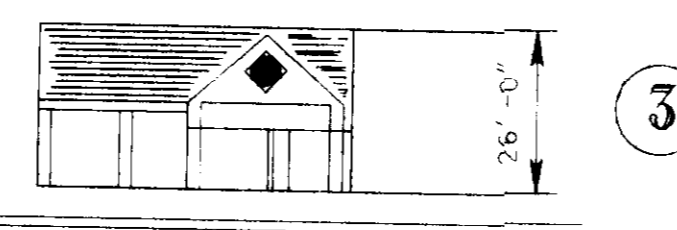
This set, sheets 1 through 18, replaces the site development plan approved by the Dept. of Planning and Zoning on March 28, 1991.



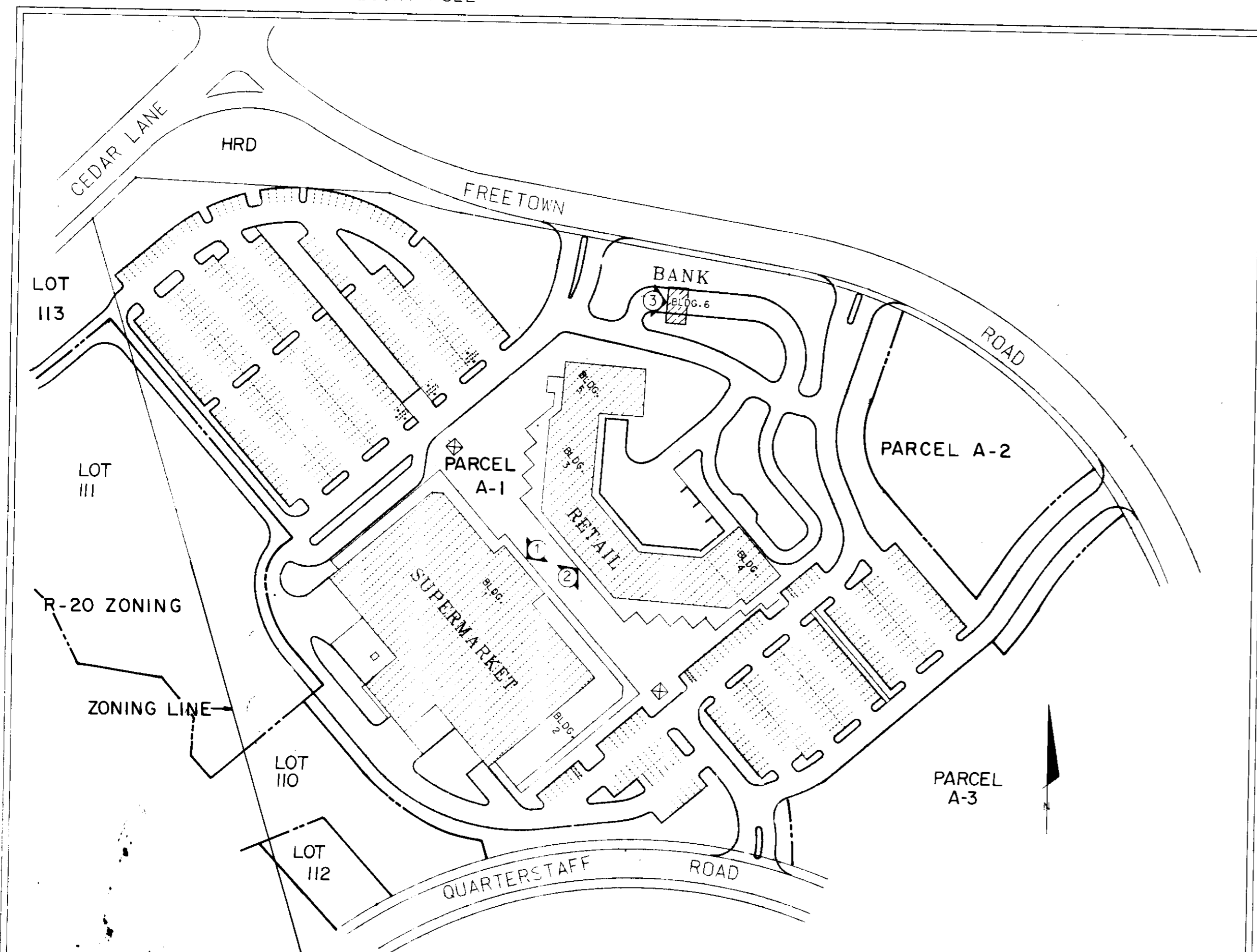
EAST SIDE ELEVATION - SUPERMARKET



WEST SIDE ELEVATION - RETAIL

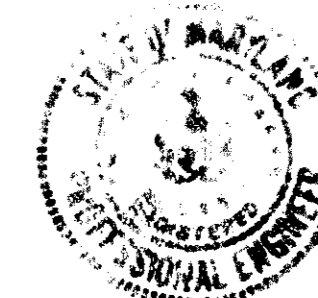


WEST SIDE ELEVATION - BANK



PLAN OF VILLAGE CENTER

SCALE: 1" = 200'



OWNER AND DEVELOPER

THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION
10275 LITTLE PATUXENT PARKWAY
COLUMBIA, MARYLAND 21043

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

THOMAS J. SHAFER P.E. NO. 8457

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

APPROVED: COUNTY HEALTH OFFICER
DATE: 11/11/91

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

APPROVED: DIRECTOR
DATE: 10/29/91

APPROVED: CHIEF, BUREAU OF ENGINEERING
DATE: 10/28/91

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

APPROVED: PLANNING DIRECTOR
DATE: 11/12/91

APPROVED: CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT
DATE: 11/12/91

NO.	DATE	DESCRIPTION OF REVISION
2	8/8/91	REVISED X PAVING - SITE ANALYSIS, ENTRANCE ROAD
1	5/15/91	ADDED ENTRANCE ROAD, REVISED RETAIL BUILDING

COLUMBIA

SITE DEVELOPMENT PLAN
SECTION 6 AREA 3&5
PARCEL A-1 & LOTS III, III, III
HICKORY RIDGE VILLAGE CENTER

TITLE SHEET AND DETAILS

SHEET 1 OF 18

ELECTION DISTRICT NO. 5
HOWARD COUNTY, MARYLAND
DATE: MGR. 4, 1991

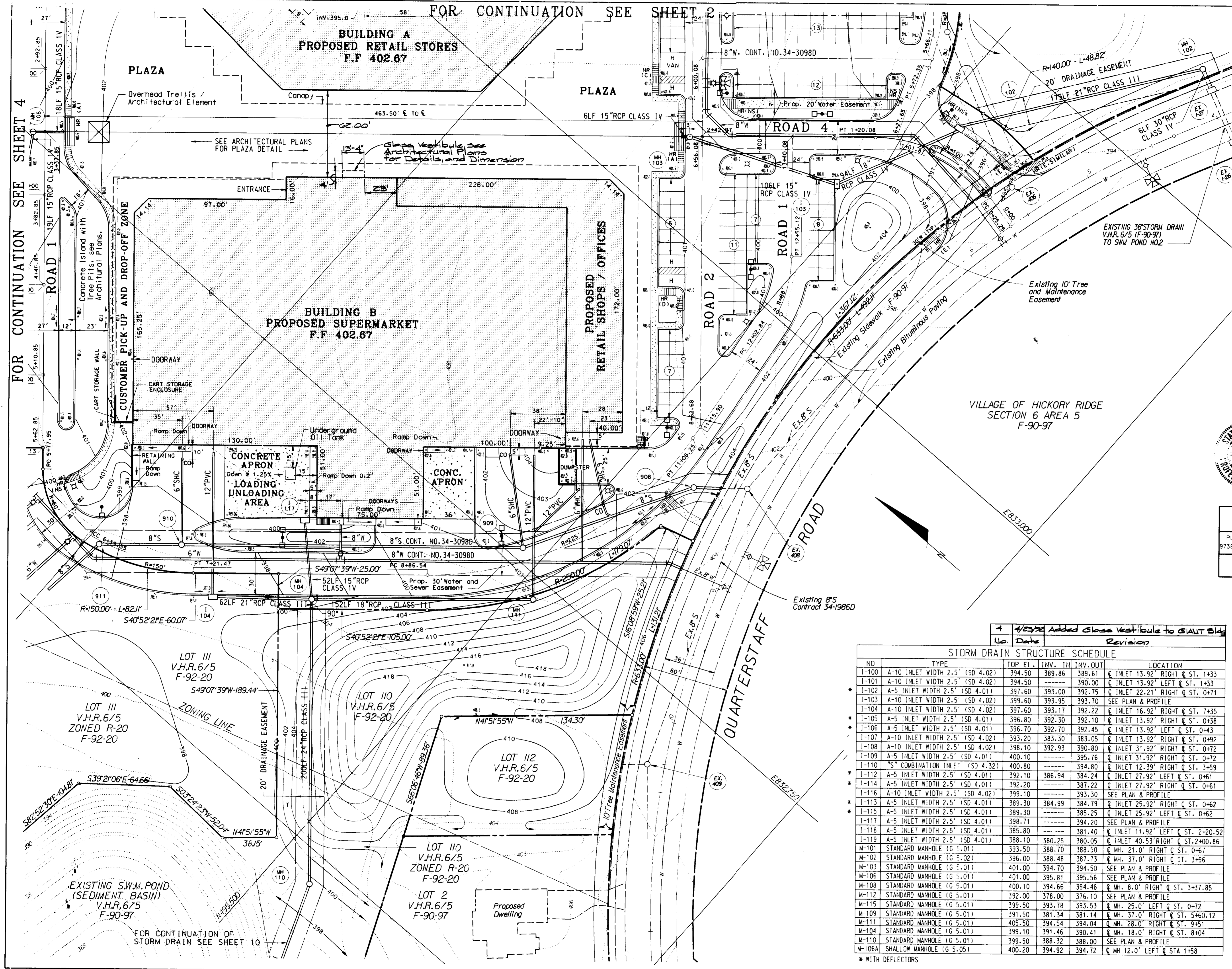
PARCEL 110 & 112
AS SHOWN

NO.	DATE	DESCRIPTION OF REVISION
4	1/8/92	REVISED SHEET INDEX, SHEET 8 REVISED SITE ANALYSIS PLAN OF VILLAGE CENTER VILLAGE CENTER PLAN, CENCUS TRACT
3	10/12/91	REVISED: SITE ANALYSIS, GENERAL NOTES, TITLE BLOCK
2	8/22/91	Add south side elev for bank

PLAT	BLOCK	ZONE	TAX/ZONE MAP	ELEC. DIST.	CENSUS TR.
9738-9740	18	NT Comm.	35	5	6056

SUBDIVISION NAME	SECTION/AREA	PARCEL
VILLAGE OF HICKORY RIDGE	6/3	A-1, LOTS III, III, III

WATER CODE	SEWER CODE
E-29	6580000



APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
 HOWARD COUNTY HEALTH DEPARTMENT
 COUNTY HEALTH OFFICER: *[Signature]* 11/19/91 DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE
 STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 DIRECTOR: *[Signature]* 10/29/91 DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
 CHIEF, BUREAU OF ENGINEERING: *[Signature]* 10-28-91 DATE

PLANNING DIRECTOR: *[Signature]* 11/19/91 DATE

CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT: *[Signature]* 11/12/91 DATE

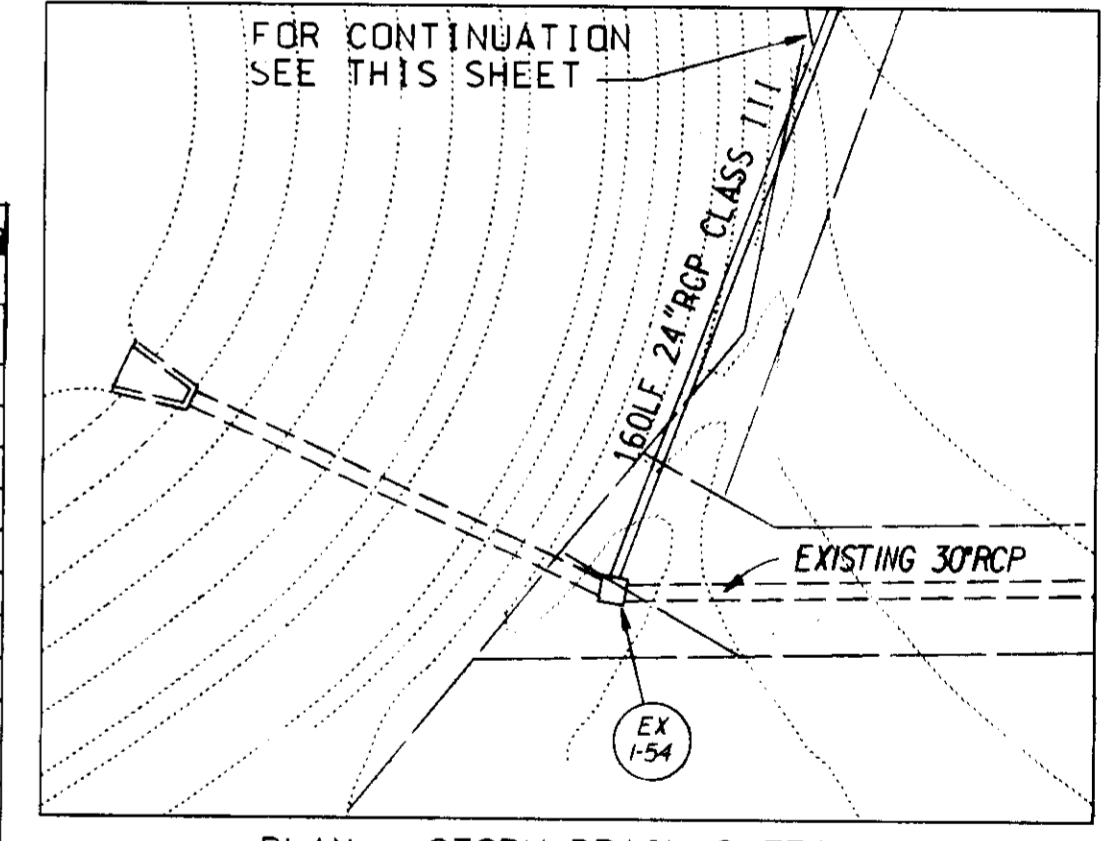
OWNER AND DEVELOPER
 THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION
 10275 LITTLE PATUXENT PARKWAY
 COLUMBIA, MARYLAND 21043

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

[Signature] 10-18-91
 THOMAS J. SHAFFER P.E. NO. 8457



SUBDIVISION NAME		SECTION/AREA	PARCEL
VILLAGE OF HICKORY RIDGE		6/3&5	A-1, LOTS 111, 113
PLAT	BLOCK	ZONE	TAX/ZONE MAP
9738-9740	18	Comm.	35
WATER CODE		SEWER CODE	
E 29		6580000	
ELEC. DIST.		CENSUS TR.	
5		6056	



4 1/23/92 Added Glass Vestibule to SAULT Bldg
 Revision

NO	TYPE	TOP EL.	INV. IN	INV. OUT	LOCATION
I-100	A-10 INLET WIDTH 2.5' (SD 4.02)	394.50	389.86	389.61	INLET 13.92' RIGHT @ ST. 1+33
I-101	A-10 INLET WIDTH 2.5' (SD 4.02)	394.50	---	390.00	INLET 13.92' LEFT @ ST. 1+33
I-102	A-5 INLET WIDTH 2.5' (SD 4.01)	397.60	393.00	392.75	INLET 22.21' RIGHT @ ST. 0+71
I-103	A-10 INLET WIDTH 2.5' (SD 4.02)	399.60	393.95	393.70	SEE PLAN & PROFILE
I-104	A-10 INLET WIDTH 2.5' (SD 4.02)	397.60	393.17	392.22	INLET 16.92' RIGHT @ ST. 7+35
I-105	A-5 INLET WIDTH 2.5' (SD 4.01)	396.80	392.30	392.10	INLET 13.92' RIGHT @ ST. 0+38
I-106	A-5 INLET WIDTH 2.5' (SD 4.01)	396.70	392.70	392.45	INLET 13.92' LEFT @ ST. 0+43
I-107	A-10 INLET WIDTH 2.5' (SD 4.02)	393.20	383.30	383.05	INLET 13.92' RIGHT @ ST. 0+92
I-108	A-10 INLET WIDTH 2.5' (SD 4.02)	398.10	392.93	390.80	INLET 31.92' RIGHT @ ST. 0+72
I-109	A-5 INLET WIDTH 2.5' (SD 4.01)	400.10	---	395.76	INLET 31.92' RIGHT @ ST. 0+72
I-110	"S" COMBINATION INLET (SD 4.32)	400.80	---	394.80	INLET 12.39' RIGHT @ ST. 3+59
I-112	A-5 INLET WIDTH 2.5' (SD 4.01)	392.10	386.94	384.24	INLET 27.92' LEFT @ ST. 0+61
I-114	A-5 INLET WIDTH 2.5' (SD 4.01)	392.20	---	387.22	INLET 27.92' RIGHT @ ST. 0+61
I-116	A-10 INLET WIDTH 2.5' (SD 4.02)	399.10	---	393.30	SEE PLAN & PROFILE
I-113	A-5 INLET WIDTH 2.5' (SD 4.01)	389.30	384.99	384.79	INLET 25.92' RIGHT @ ST. 0+62
I-115	A-5 INLET WIDTH 2.5' (SD 4.01)	389.30	---	385.25	INLET 25.92' LEFT @ ST. 0+62
I-117	A-5 INLET WIDTH 2.5' (SD 4.01)	398.71	---	394.20	SEE PLAN & PROFILE
I-118	A-5 INLET WIDTH 2.5' (SD 4.01)	385.80	---	381.40	INLET 11.92' LEFT @ ST. 2+20.52
I-119	A-5 INLET WIDTH 2.5' (SD 4.01)	388.10	380.25	380.05	INLET 40.53' RIGHT @ ST. 2+00.86
M-101	STANDARD MANHOLE (G 5.01)	393.50	388.70	388.50	INLET 21.0' RIGHT @ ST. 0+67
M-102	STANDARD MANHOLE (G 5.02)	396.00	388.48	387.73	INLET 37.0' RIGHT @ ST. 3+96
M-103	STANDARD MANHOLE (G 5.01)	401.00	394.70	394.50	SEE PLAN & PROFILE
M-106	STANDARD MANHOLE (G 5.01)	401.00	395.81	395.56	SEE PLAN & PROFILE
M-108	STANDARD MANHOLE (G 5.01)	400.10	394.66	394.46	INLET 8.0' RIGHT @ ST. 3+37.85
M-112	STANDARD MANHOLE (G 5.01)	392.00	378.00	376.10	SEE PLAN & PROFILE
M-115	STANDARD MANHOLE (G 5.01)	399.50	393.78	393.53	INLET 25.0' LEFT @ ST. 0+72
M-109	STANDARD MANHOLE (G 5.01)	391.50	381.34	381.14	INLET 37.0' RIGHT @ ST. 5+60.12
M-111	STANDARD MANHOLE (G 5.01)	405.50	394.54	394.04	INLET 38.0' RIGHT @ ST. 9+51
M-104	STANDARD MANHOLE (G 5.01)	399.10	391.46	390.41	INLET 18.0' RIGHT @ ST. 8+04
M-110	STANDARD MANHOLE (G 5.01)	399.50	388.32	388.00	SEE PLAN & PROFILE
M-106A	SHALLOW MANHOLE (G 5.05)	400.20	394.92	394.72	INLET 12.0' LEFT @ STA 1+58

PLAN - STORM DRAIN OUTFALL

NO.	DATE	DESCRIPTION OF REVISION
3	1/8/92	REVISED LOCATION OF HR TYPE (B), VAN
2	10/12/91	REVISED PARCELS, LOTS, GEOMETRY, TITLE BLOCK CENSUS TR.
1	9/15/91	REVISED STORM DRAINS, REVISED RETAIL BUILDING CHANGED LIGHT POLES, REVISED GRADING STREET GEOMETRY, HANDICAP RAMP

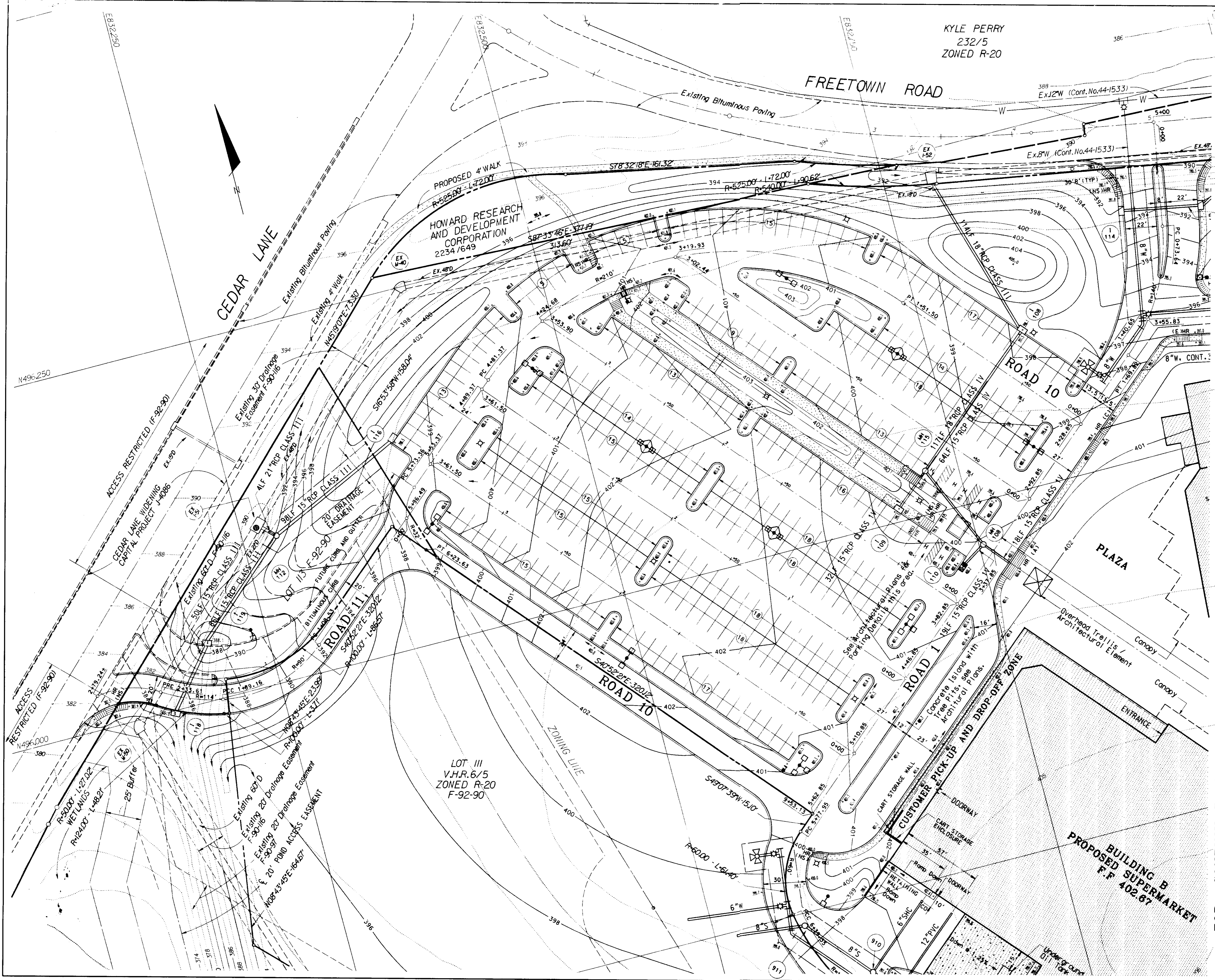
COLUMBIA
 SITE DEVELOPMENT PLAN
 SECTION 6 AREA 3&5
 PARCEL A-1 & LOTS 111 AND 113
 HICKORY RIDGE VILLAGE CENTER

SITE PLAN

SHEET 3 OF 18

ELECTION DISTRICT NO. 5
 HOWARD COUNTY, MARYLAND
 DATE: Mar. 4, 1991

PARCEL 110 & 112
 TAX MAP NO. 35
 SCALE: 1" = 30'



KYLE PERRY
232/5
ZONED R-20

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT
[Signature] 4/1/91
COUNTY HEALTH OFFICER DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE
STORM DRAINAGE SYSTEMS AND PUBLIC WORKS.
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.
[Signature] 10/28/91
DIRECTOR DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
[Signature] 11/12/91
PLANNING DIRECTOR DATE

[Signature] 11/12/91
CHIEF, DIVISION OF COMMUNITY
PLANNING AND LAND DEVELOPMENT DATE

FOR CONTINUATION SEE SHEET 2

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

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

[Signature] 10/16/91
THOMAS J. SHAFER P.E., NO. 6457



SUBDIVISION NAME		SECTION/AREA	PARCEL
VILLAGE OF HICKORY RIDGE		6/3&5	LOTS 111, 113
PLAT	BLOCK	ZONE	TAX/ZONE MAP
9738-9740	18	NT Comm.	35
WATER CODE		SEWER CODE	
E 29		6580000	
ELEC. DIST.		CENSUS TR.	
5		6056	

FOR CONTINUATION SEE SHEET 3

NOTE:
THE RIGHT TURN OUT PORTION OF THE CEDAR LANE
ACCESS, SHOWN DASHED, MAY BE CONSTRUCTED
FOLLOWING WRITTEN VERIFICATION TO THE
DEPARTMENT OF PUBLIC WORKS THAT THE VOLUMES
AT THIS ACCESS DO NOT EXCEED 200 VEHICLES PER
HOUR. THE 200 VEHICLE MAXIMUM WILL BE A COMBI-
NATION OF THE MONITORED, FIELD VERIFIED RIGHT-
TURN-IN VOLUMES AND THE ESTIMATED RIGHT-TURN
OUT VOLUMES.

4	1/8/92	REMOVED RR TRIP (C); RELOCATED HANDICAP SPACES IN PARKING LOT. ADJUSTED STD. PARKING SPACES
3	10/12/91	REVISED PARCELS, LOTS, GEOMETRY, TITLE BLOCK AND GRADING, CENSUS TR.
2	8/8/91	REVISED ENTRANCE ROAD, GRADING, STREET GEOMETRY AND CHANGED ROADS 10 AND 12 TO ROAD 10
1	5/15/91	ADDED ENTRANCE ROAD, REVISED STORM DRAINS, REVISED RETAIL BUILDING, CHANGED LIGHT POLES, REVISED GRADING, STREET GEOMETRY HANDICAP RAMP
NO.	DATE	DESCRIPTION OF REVISION

COLUMBIA
SITE DEVELOPMENT PLAN
SECTION 6 AREA 3&5
PARCEL A-1 & LOTS 111 AND 113
HICKORY RIDGE VILLAGE CENTER

SITE PLAN

SHEET 4 OF 18

ELECTION DISTRICT NO. 5
HOWARD COUNTY, MARYLAND
DATE: Mar. 4, 1991

PARCEL 110 & 112
TAX MAP NO. 35
SCALE: 1" = 30'

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

[Signature] 11/1/91
 COUNTY HEALTH OFFICER DATE

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

[Signature] 10/27/91
 DIRECTOR DATE

[Signature] 10-28-91
 CHIEF, BUREAU OF ENGINEERING DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

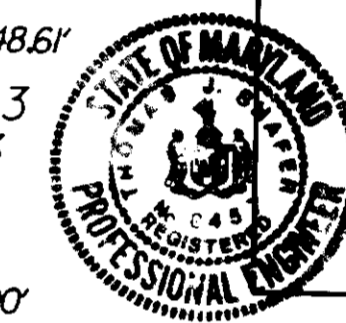
[Signature] 11/12/91
 PLANNING DIRECTOR DATE

[Signature] 11/12/91
 CHIEF, DIVISION OF COMMUNITY
 PLANNING AND LAND DEVELOPMENT DATE

12-18-90
 JKS

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

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



[Signature] 10/18/91
 THOMAS J. SHAFER P.E./NO.8457

SUBDIVISION NAME VILLAGE OF HICKORY RIDGE		SECTION/AREA 6/3&5	PARCEL A-1, LOTS 111, 113
PLAT 9738-9740	BLOCK 18	ZONE NT Comm.	TAX/ZONE MAP 35
ELEC. DIST. 5		CENSUS TR. 6056	
WATER CODE E 29		SEWER CODE 6580000	

PL. #	B.C. Elev
1	277.21
2	277.21
3	400.04
4	400.98
5	401.11
6	401.27
7	401.57
8	401.92
9	401.98
10	400.81

STATE OF MARYLAND
 REGISTERED PROFESSIONAL ENGINEER
 CL...
 For: S only

NO.	DATE	DESCRIPTION OF REVISION
5	8/22/91	Rev drive aisle & added B.C. elevations
4	1/8/92	REMOVED FAST FOOD; ADDED RETAIL STORE, REMOVED ROAD 9 A/E: HANDICAP SPACE FOR VAN.
3	10/12/91	REVISED PARCELS, GEOMETRY, TITLE BLOCK AND CENSUS TR.
2	8/8/91	REVISED FAST FOOD RESTAURANT
1	5/15/91	REVISED STORM DRAINS, REVISED RETAIL BUILDING.

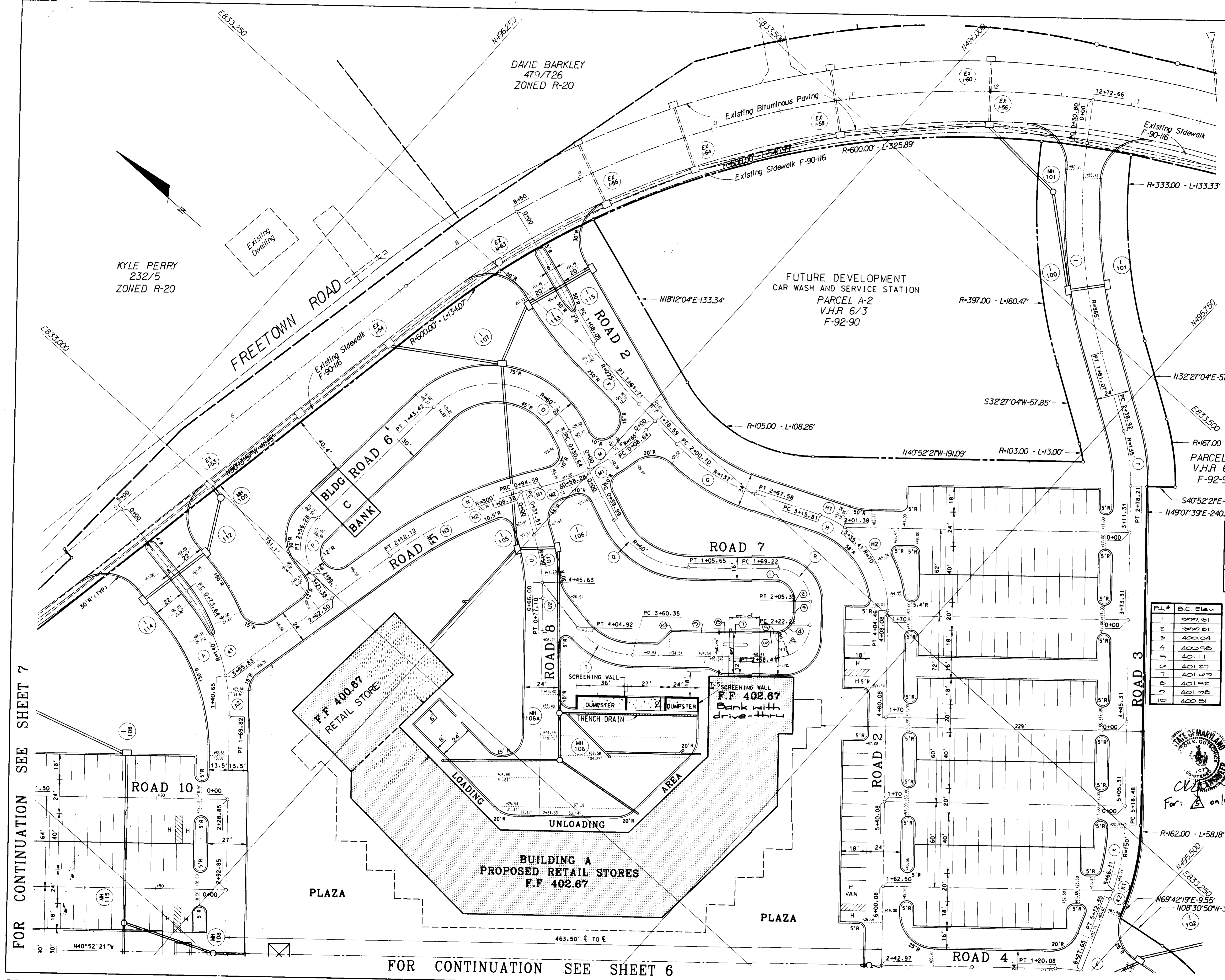
COLUMBIA
 SITE DEVELOPMENT PLAN
 SECTION 6 AREA 3&5
 PARCEL A-1 & LOTS 111 AND 113
 HICKORY RIDGE VILLAGE CENTER

STAKEOUT PLAN

SHEET 5 OF 18

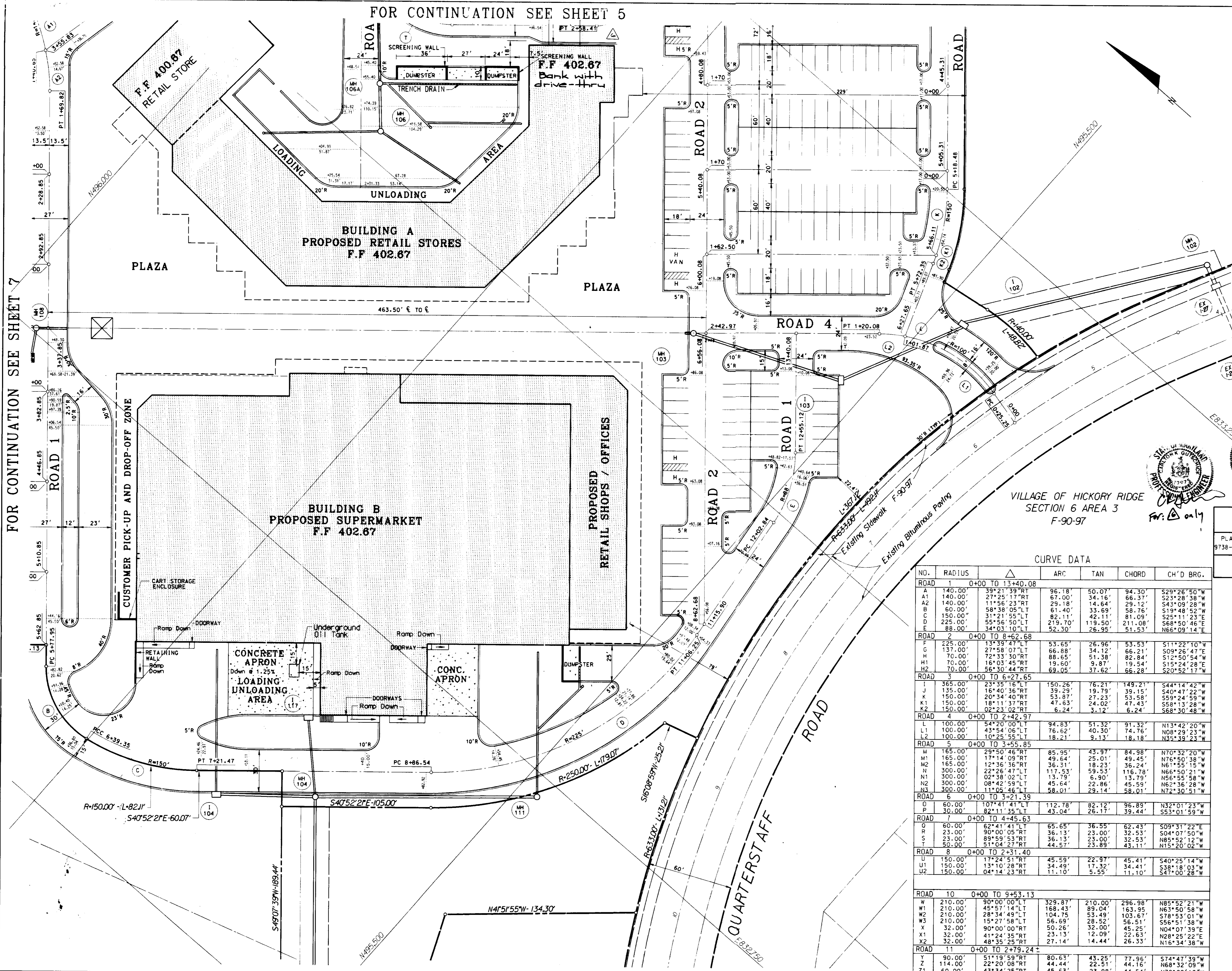
ELECTION DISTRICT NO.5
 HOWARD COUNTY, MARYLAND
 DATE: Mar. 4, 1991

PARCEL 110 & 112
 TAX MAP NO. 35
 SCALE: 1" = 30'



FOR CONTINUATION SEE SHEET 7

FOR CONTINUATION SEE SHEET 6



FOR CONTINUATION SEE SHEET 5

FOR CONTINUATION SEE SHEET 7

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

Joselyn B. [Signature] 11/1/91
COUNTY HEALTH OFFICER DATE

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

James [Signature] 10-23-91
DIRECTOR DATE

[Signature] 10-23-91
CHIEF, BUREAU OF ENGINEERING DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

[Signature] 11/1/91
PLANNING DIRECTOR DATE

[Signature] 11/1/91
CHIEF, DIVISION OF COMMUNITY
PLANNING AND LAND DEVELOPMENT DATE

OWNER AND DEVELOPER
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COLUMBIA, MARYLAND 21043

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

Thomas J. Shafer 10/16/91
THOMAS J. SHAFER P.E. NO. 8451



VILLAGE OF HICKORY RIDGE
SECTION 6 AREA 3
F-90-97

CURVE DATA

NO.	RADIUS	ARC	TAN	CHORD	CH'D BRG.
ROAD 1 0+00 TO 13+40.08					
A	140.00'	39°21'39"RT	96.18'	50.07'	94.30'
A1	140.00'	27°25'17"RT	67.00'	34.16'	66.37'
A2	140.00'	11°56'23"RT	29.18'	14.64'	29.12'
B	60.00'	58°38'05"LT	61.40'	33.69'	58.76'
C	150.00'	31°21'55"LT	82.11'	42.11'	81.09'
D	225.00'	55°56'50"LT	219.70'	119.50'	211.08'
E	88.00'	34°03'10"LT	52.30'	26.95'	51.53'
ROAD 2 0+00 TO 8+62.68					
F	125.00'	13°39'47"LT	53.65'	26.96'	53.53'
G	137.00'	27°58'07"LT	66.88'	34.12'	66.21'
H	70.00'	72°33'30"RT	88.65'	51.38'	82.84'
H1	70.00'	16°05'45"RT	19.60'	9.87'	19.54'
H2	70.00'	56°30'44"RT	69.05'	37.62'	66.28'
ROAD 3 0+00 TO 6+27.65					
I	365.00'	23°35'16"LT	150.26'	76.21'	149.21'
J	135.00'	16°40'36"RT	39.29'	19.79'	39.15'
K	150.00'	20°34'40"RT	53.87'	27.23'	53.58'
K1	150.00'	18°11'37"RT	47.63'	24.02'	47.43'
K2	150.00'	02°23'02"RT	6.24'	3.12'	6.24'
ROAD 4 0+00 TO 2+42.97					
L	100.00'	54°20'00"LT	94.83'	51.32'	91.32'
L1	100.00'	43°54'06"LT	76.62'	40.30'	74.76'
L2	100.00'	10°25'55"LT	18.21'	9.13'	18.18'
ROAD 5 0+00 TO 3+55.85					
M	165.00'	29°50'46"RT	85.95'	43.97'	84.98'
M1	165.00'	17°14'09"RT	49.64'	25.01'	49.45'
M2	165.00'	12°36'36"RT	36.31'	18.23'	36.24'
N	300.00'	22°26'47"LT	117.53'	59.53'	116.78'
N1	300.00'	02°38'02"LT	13.79'	6.90'	13.79'
N2	300.00'	08°42'59"LT	45.64'	22.86'	45.59'
N3	300.00'	11°05'46"LT	58.01'	29.14'	58.01'
ROAD 6 0+00 TO 3+21.39					
O	60.00'	107°41'41"LT	112.78'	82.12'	96.89'
O1	30.00'	82°11'35"LT	43.04'	26.17'	39.44'
ROAD 7 0+00 TO 4+45.63					
P	60.00'	62°41'41"LT	65.65'	36.55'	62.43'
R	23.00'	90°00'05"RT	36.13'	23.00'	32.53'
S	23.00'	89°59'53"RT	36.13'	23.00'	32.53'
X	32.00'	51°04'27"RT	44.57'	23.89'	43.11'
ROAD 8 0+00 TO 2+31.40					
U	150.00'	17°24'51"RT	45.59'	22.97'	45.41'
U1	150.00'	13°10'28"RT	34.49'	17.32'	34.41'
U2	150.00'	04°14'23"RT	11.10'	5.55'	11.10'
ROAD 10 0+00 TO 9+53.13					
W	210.00'	90°00'00"LT	329.87'	210.00'	296.98'
W1	210.00'	45°57'14"LT	168.43'	89.04'	163.95'
W2	210.00'	28°34'49"LT	104.75'	53.49'	103.67'
W3	210.00'	15°27'58"LT	56.59'	28.52'	56.51'
X	32.00'	90°00'00"RT	50.26'	32.00'	45.25'
X1	32.00'	41°24'35"RT	23.13'	12.09'	22.63'
X2	32.00'	48°35'25"RT	27.14'	14.44'	26.33'
ROAD 11 0+00 TO 2+79.24					
Y	90.00'	51°19'59"RT	80.63'	43.25'	77.96'
Z	114.00'	22°20'08"RT	44.44'	22.51'	44.16'
Z1	60.00'	43°34'25"RT	45.63'	23.98'	44.54'

PLAT	BLOCK	ZONE	TAX/ZONE MAP	ELEC. DIST.	CLNSUS TR.
9738-9740	18	Comm.	35	5	6056

WATER CODE E 29 SEWER CODE 6580000

NO.	DATE	DESCRIPTION OF REVISION
5	4/23/92	Added Glass Vestibule to GIANT BLDG
4	1/8/92	REMOVED ROAD 3 DRIVE DATA; REM. VE. FAST P.D.; ADDED RETAIL ST. RL.
3	10/12/91	REVISED PARCELS, GEOMETRY, TITLE BLOCK AND GENIUS TR.
2	8/8/91	REVISED CURVE DATA TABLE
1	5/15/91	REVISED STORM DRAINS, ADDED LIGHT POLES STREET GEOMETRY

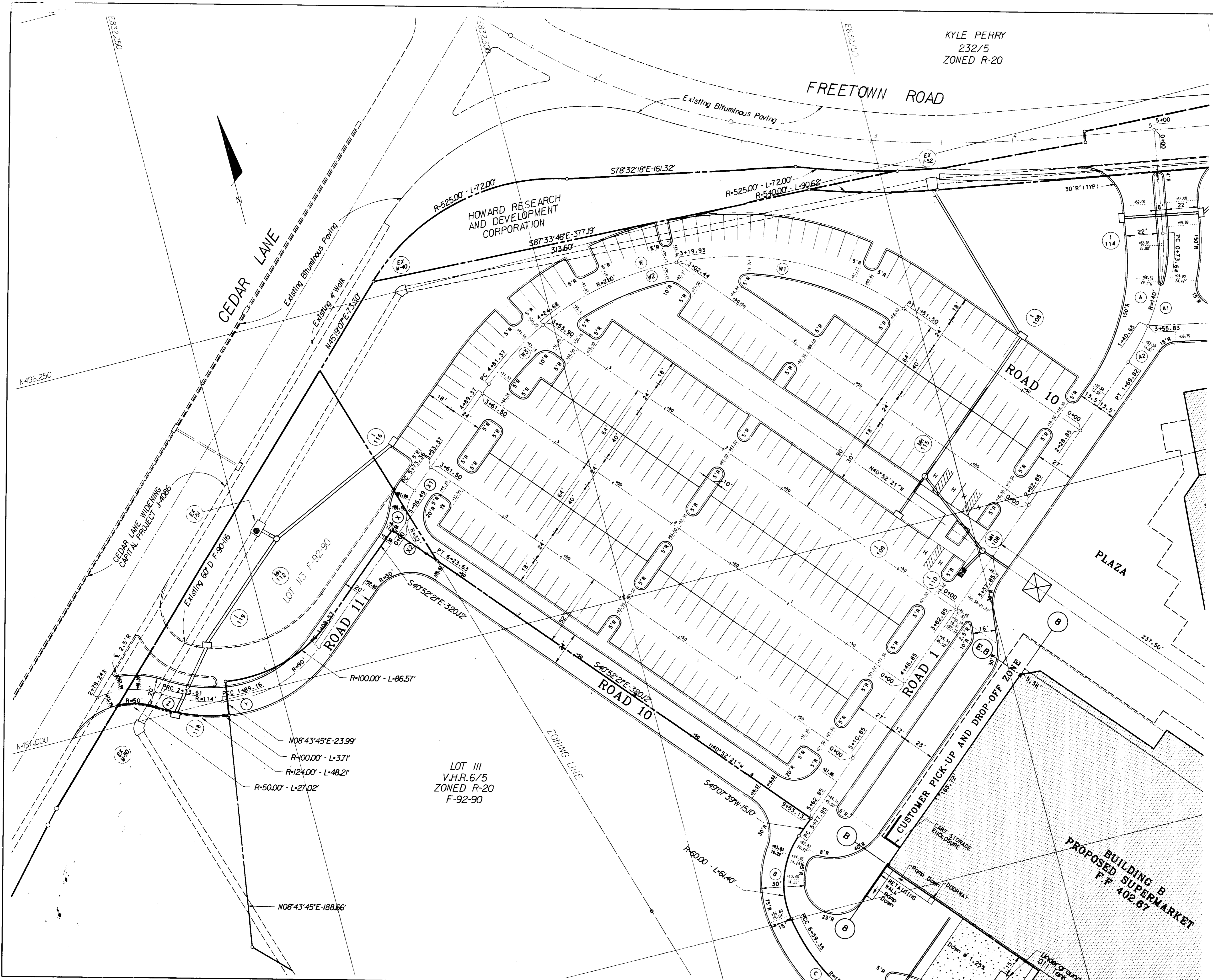
COLUMBIA
SITE DEVELOPMENT PLAN
SECTION 6 AREA 3&5
PARCEL A-1 & LOTS 111 AND 113
HICKORY RIDGE VILLAGE CENTER

STAKEOUT PLAN

SHEET 6 OF 18

ELECTION DISTRICT NO.5
HOWARD COUNTY, MARYLAND
DATE: Mar. 4, 1991

PARCEL 110 & 112
TAX MAP NO. 35
SCALE: 1" = 30'



APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
 HOWARD COUNTY HEALTH DEPARTMENT
 COUNTY HEALTH OFFICER: *[Signature]* 11/1/91 DATE
 APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE
 STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.
 DIRECTOR: *[Signature]* 10/26/91 DATE
 CHIEF, BUREAU OF ENGINEERING: *[Signature]* 10-28-91 DATE
 APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
 PLANNING DIRECTOR: *[Signature]* 11/12/91 DATE
 CHIEF, DIVISION OF COMMUNITY
 PLANNING AND LAND DEVELOPMENT: *[Signature]* 11/21/91 DATE

FOR CONTINUATION SEE SHEET 5

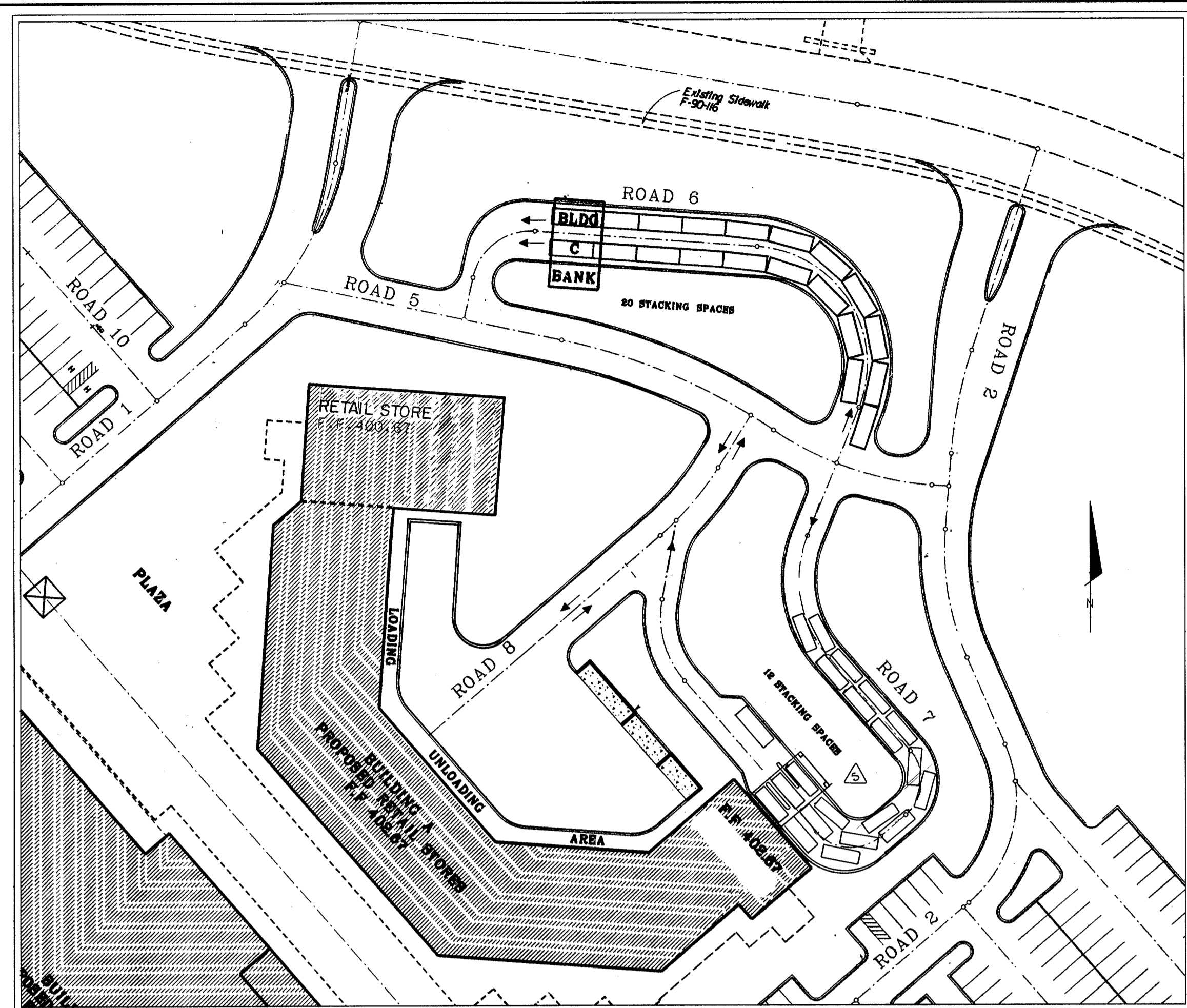
FOR CONTINUATION SEE SHEET 6

OWNER AND DEVELOPER
 THE HOWARD RESEARCH AND
 DEVELOPMENT CORPORATION
 10275 LITTLE PATUXENT PARKWAY
 COLUMBIA, MARYLAND 21043
 WHITMAN, REQUARDT AND ASSOCIATES
 ENGINEERS
 2315 SAINT PAUL STREET
 BALTIMORE, MARYLAND 21218
[Signature]
 THOMAS J. SCHAFFER P.E. NO. 84577

SUBDIVISION NAME		SECTION/AREA	PARCEL
VILLAGE OF HICKORY RIDGE		6/3&5	A-1, LOTS 111, 113
PLAT	BLOCK	ZONE	TAX/ZONE MAP
9738-9740	18	NT Comm.	35
ELEC. DIST.		LENSUS TR.	
5		6056	
WATER CODE		SEWER CODE	
E 29		6580000	

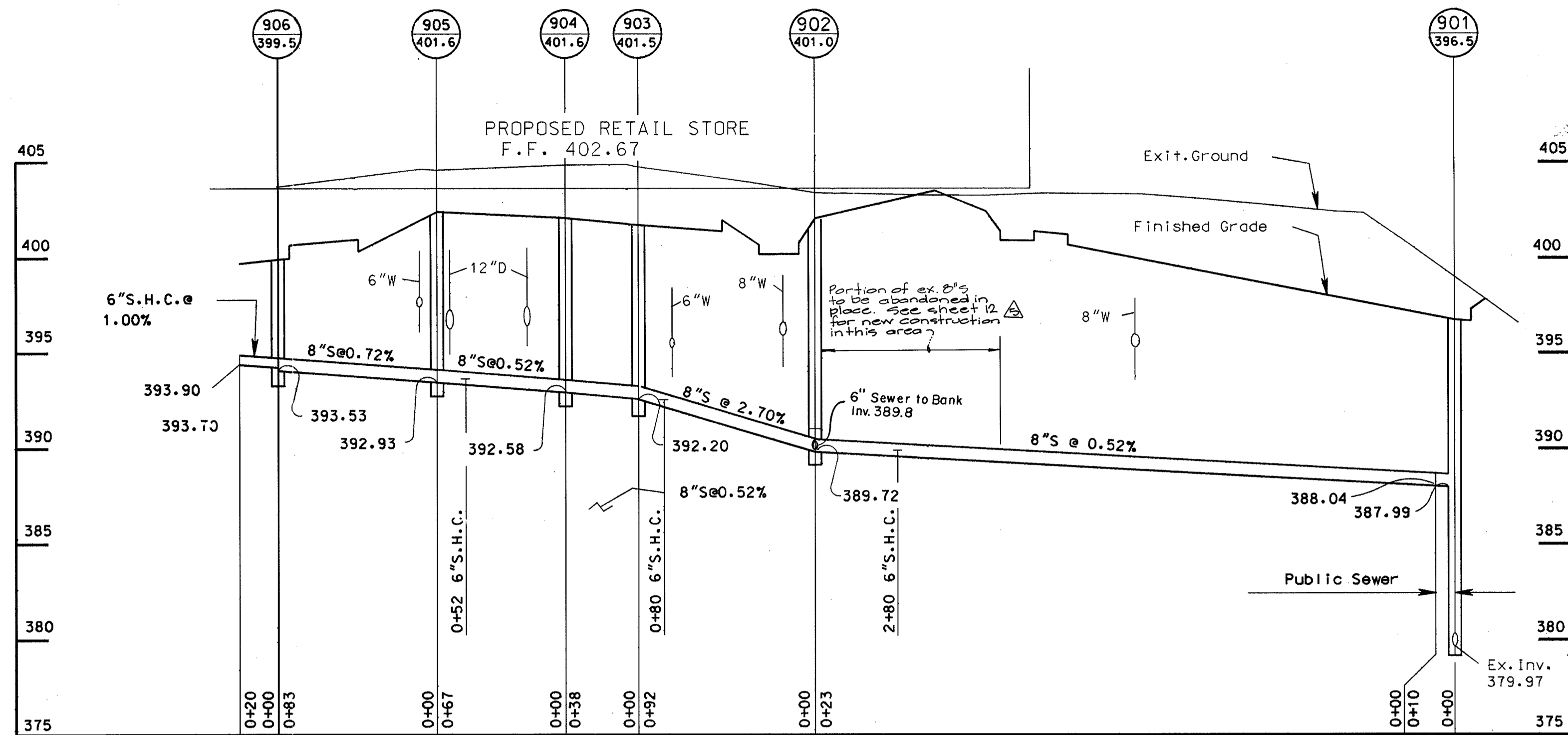
4	1/8/92	RELOCATED HANDICAP SPACES IN PARKING LOT.
3	10/12/91	REVISED PARCELS, GEOMETRY, TITLE BLOCK AND CENSUS TR.
2	8/8/91	REVISED ENTRANCE ROAD AT CEDAR LANE
1	5/15/91	ADDED ENTRANCE ROAD, REVISED STORM DRAIN, REVISED RETAIL BUILDING
NO.	DATE	DESCRIPTION OF REVISION

COLUMBIA
 SITE DEVELOPMENT PLAN
 SECTION 6 AREA 3&5
 PARCEL A-1 & LOTS 111 AND 113
 HICKORY RIDGE VILLAGE CENTER
STAKEOUT PLAN
 SHEET 7 OF 18
 ELECTION DISTRICT NO. 5
 HOWARD COUNTY, MARYLAND
 DATE: Mar. 4, 1991
 PARCEL 110 & 112
 TAX MAP NO. 35
 SCALE: 1" = 30"



STACKING DETAIL

SCALE: 1" = 50'



PRIVATE SEWER PROFILE

Scale: Horz. 1"=50'
Vert. 1"=5'

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

James G. Baker 11-1-91
COUNTY HEALTH OFFICER DATE

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

James G. Baker 10/29/91
DIRECTOR DATE

James G. Baker 10/28/91
CHIEF, BUREAU OF ENGINEERING DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

James G. Baker 11/12/91
PLANNING DIRECTOR DATE

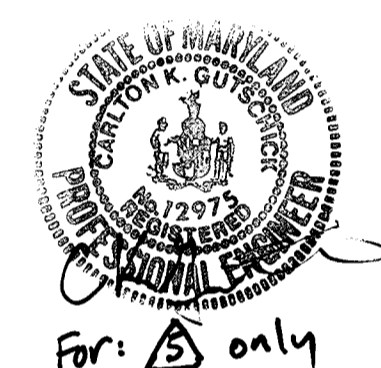
Thomas J. Shafer 11/12/91
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

OWNER AND DEVELOPER

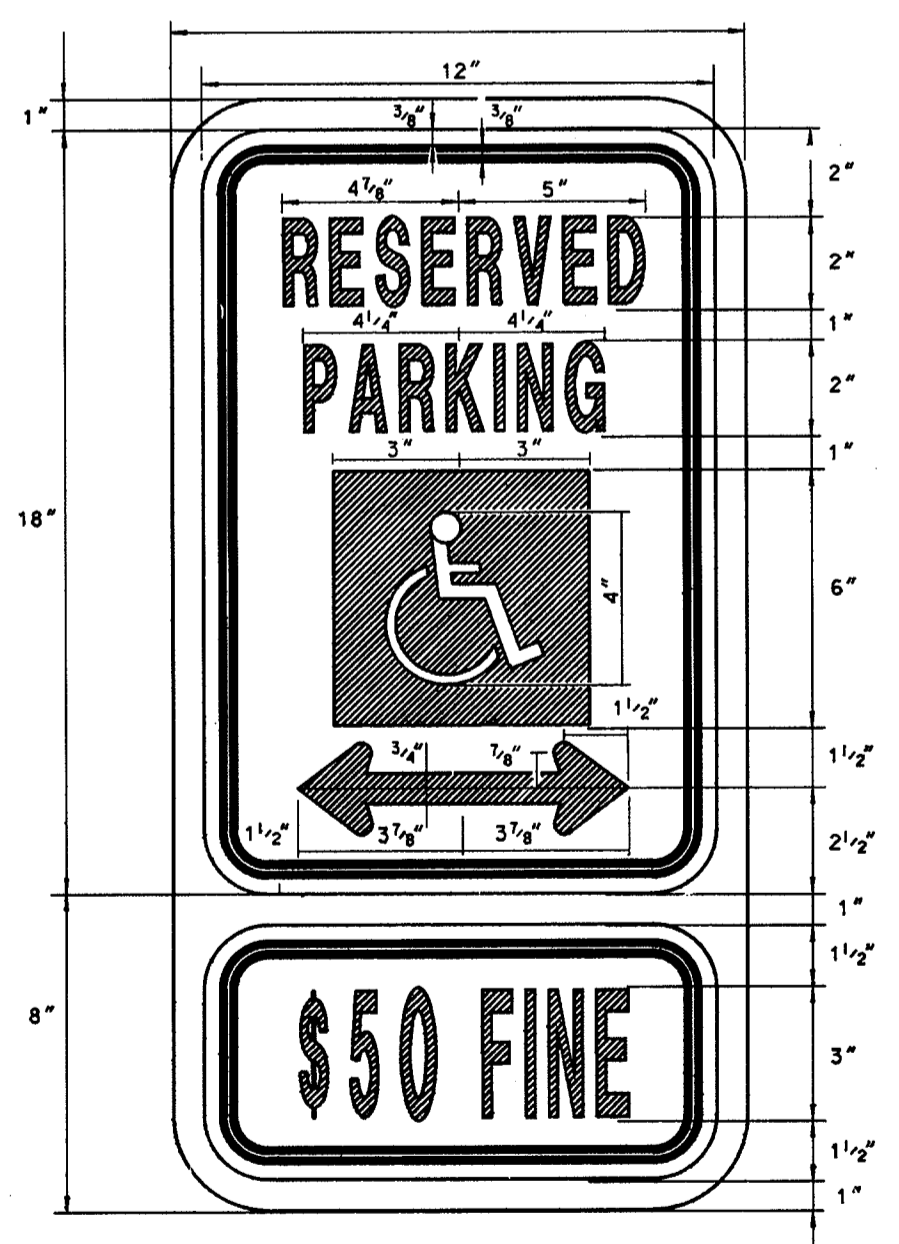
THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION
10275 LITTLE PATUXENT PARKWAY
COLUMBIA, MARYLAND 21043

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

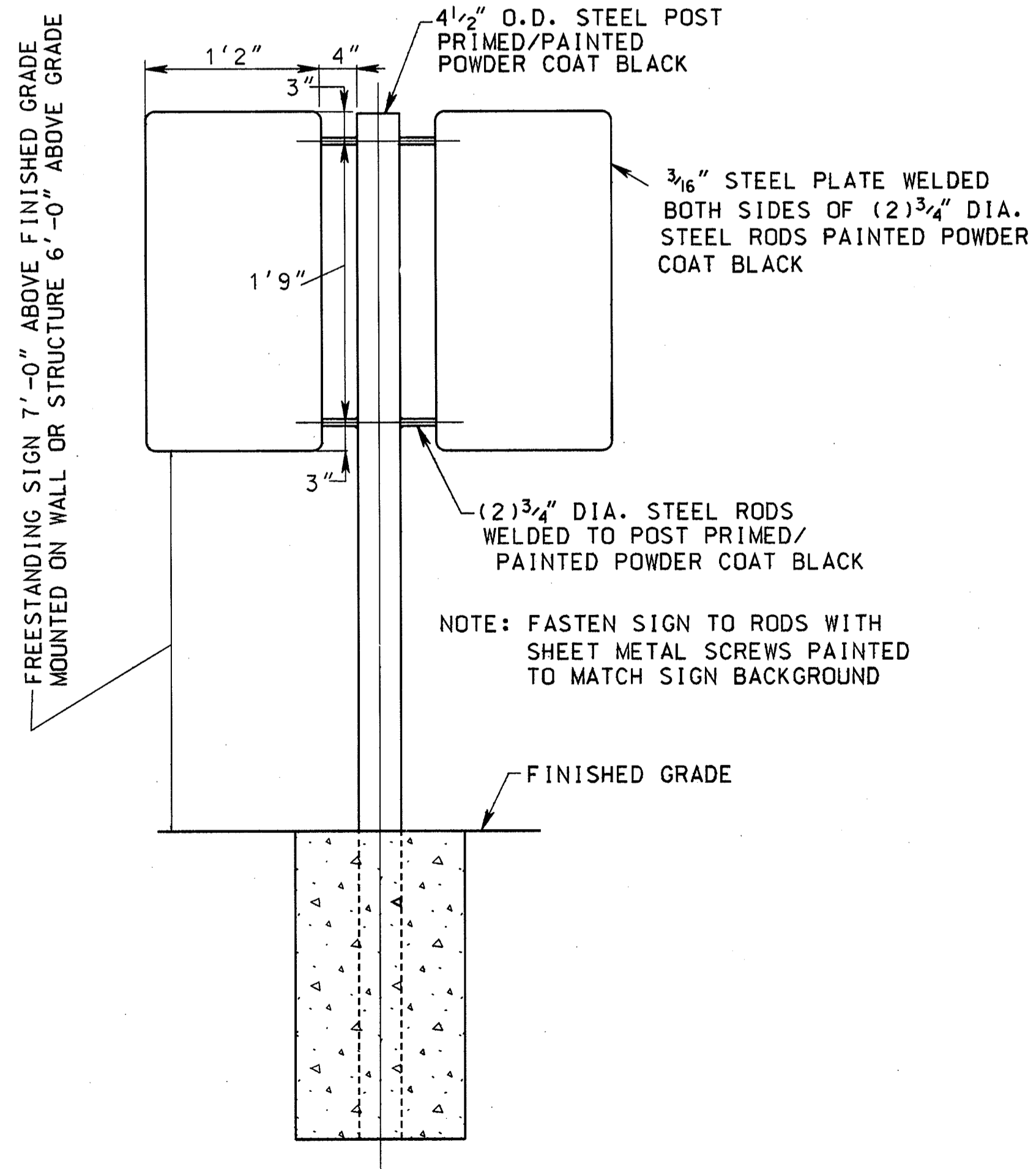
Thomas J. Shafer 9/12/91
THOMAS J. SHAFER P.E. NO. 8457



COLORS
LEGEND AND BORDER - GREEN
WHITE SYMBOL ON BLUE BACKGROUND
BACKGROUND WHITE

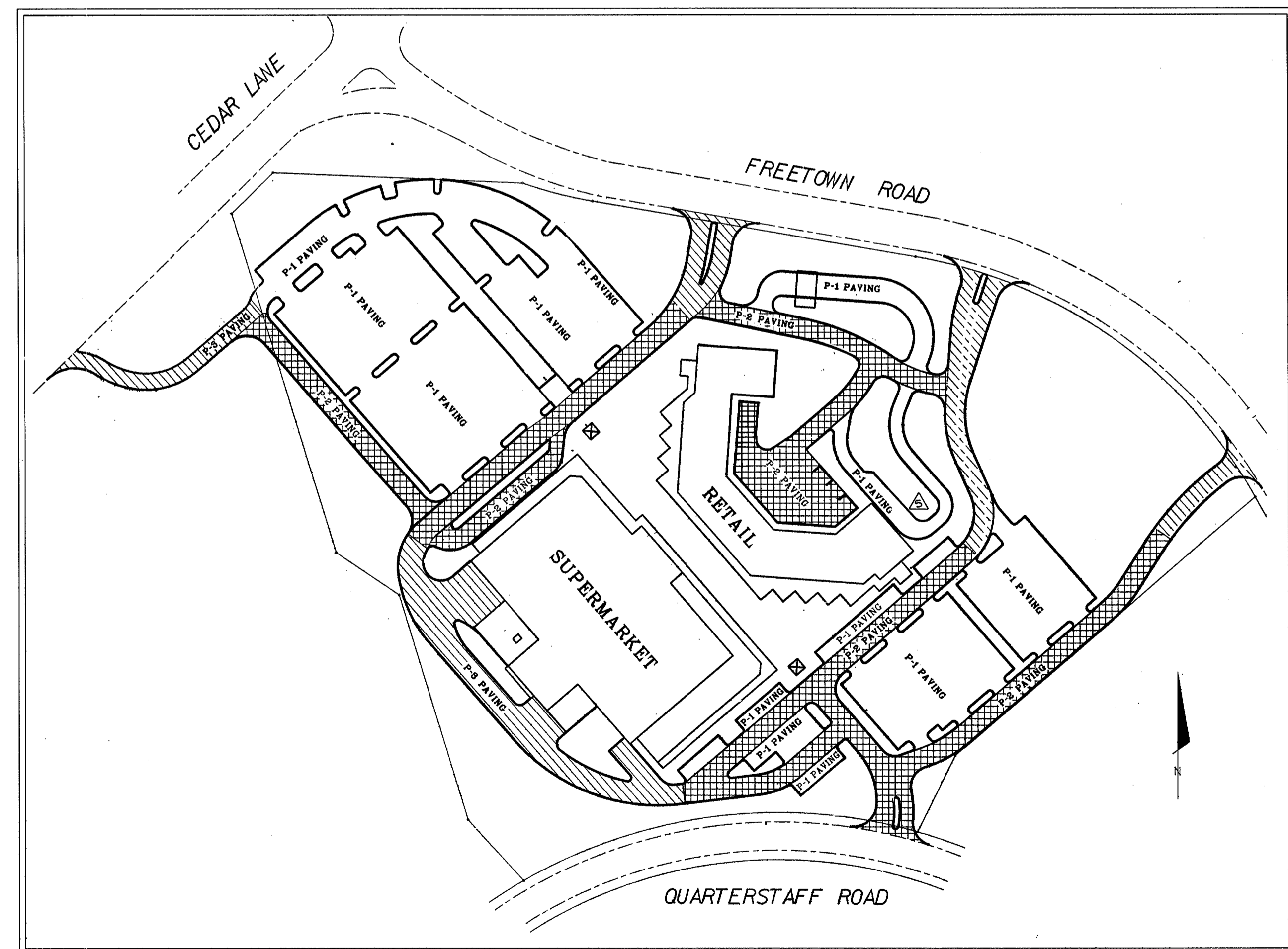


HANDICAPPED PARKING SIGN



HANDICAPPED SIGN POST

NO SCALE



PLAN OF PAVING SECTIONS

No.	DATE	DESCRIPTION OF REVISION
5	7/15/91	add note to sewer profile; revise stacking detail; rev drive aisle
4	1/8/92	Removed Road 9 Stacking; Revised P-2 Paving; Added Retail Store; Added 6" S to Profile

SUBDIVISION NAME				SECTION/AREA	PARCEL
VILLAGE OF HICKORY RIDGE				6/3&5	A-1& LOTS III, III3
PLAT	BLOCK	ZONE	TAX/ZONE MAP	ELEC. DIST.	CENSUS TR.
9738-9740	18	NT Comm.	35	5	6056
WATER CODE				SEWER CODE	
E 29				6580000	

SEWER QUANTITIES			
ITEM	BID	AS-BUILT	MATERIAL/SUPPLIER
8" SEWER L.F.	833		
MANHOLES EA.	8		
6" S.H.C.	105		

No.	DATE	DESCRIPTION OF REVISION
3	10/12/91	Revised Parcels, Lots, Title Block, Census Tr.
2	8/8/91	REVISED ENTRANCE ROAD - REDUCED P-3 PAVING
1	5/15/91	ADDED ENTRANCE ROAD - REVISED SEWER PROFILE

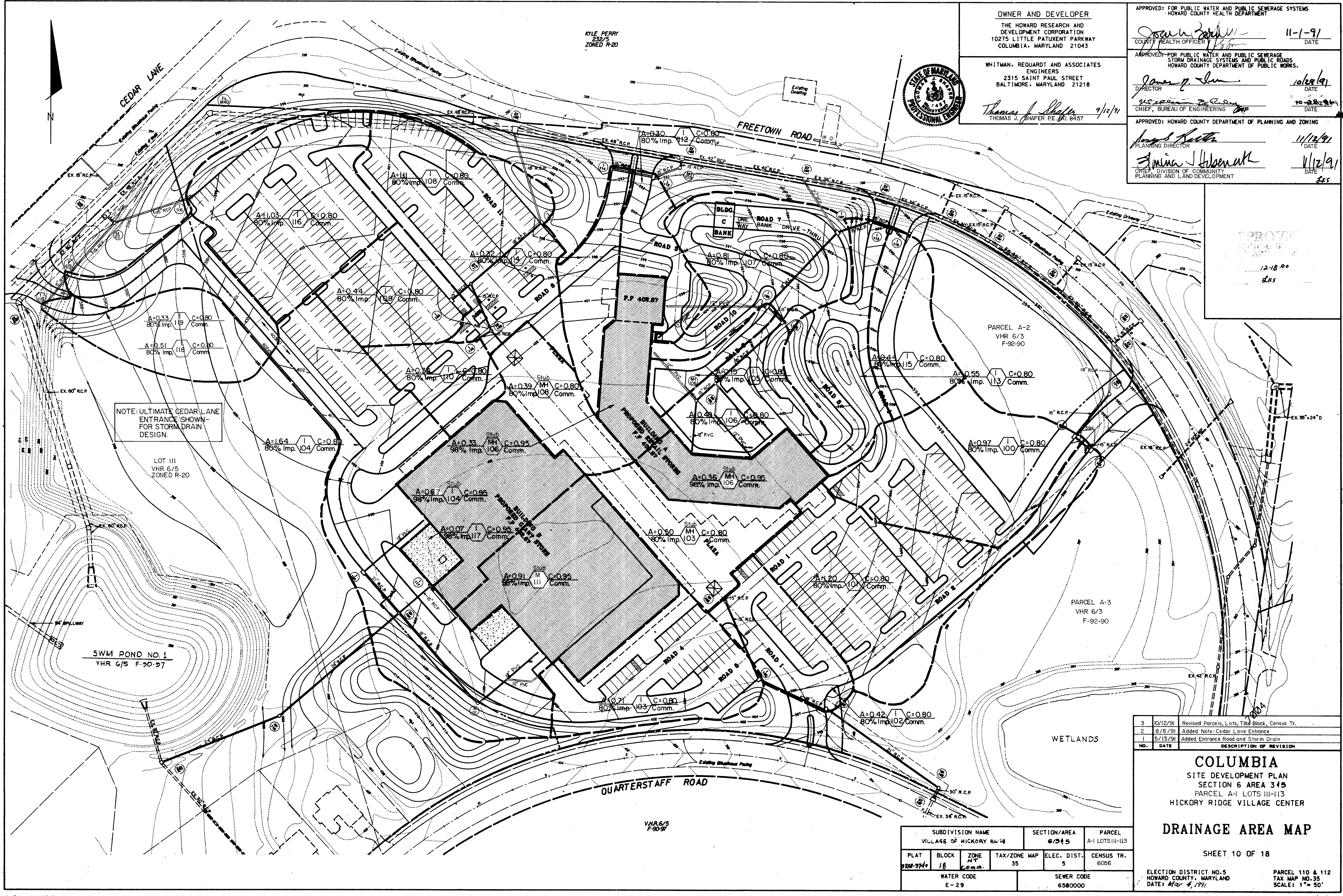
COLUMBIA
SITE DEVELOPMENT PLAN
SECTION 6 AREA 3&5
PARCEL A-1 & LOTS III, III3
HICKORY RIDGE VILLAGE CENTER

DETAILS & PROFILES

SHEET 9 OF 18

ELECTION DISTRICT NO. 5
HOWARD COUNTY, MARYLAND
DATE: Mar. 4, 1991

PARCEL 110 & 112
TAX MAP NO. 35
SCALE: AS SHOWN



KYLE PERRY
232/5
ZONED R-20

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

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

John J. [Signature] 11-1-91
COUNTY HEALTH OFFICER DATE

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

James P. [Signature] 10/29/91
DIRECTOR DATE

Thomas J. [Signature] 10-28-91
CHIEF, BUREAU OF ENGINEERING DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
Paul [Signature] 11/12/91
PLANNING DIRECTOR DATE

Amira J. [Signature] 11/2/91
CHIEF, DIVISION OF COMMUNITY
PLANNING AND LAND DEVELOPMENT DATE



THOMAS J. SHAFER P.E. NO. 8457
9/12/91

APPROVED
DATE
12-18-90
[Signature]

NOTE: ULTIMATE CEDAR LANE
ENTRANCE SHOWN
FOR STORM DRAIN
DESIGN.

LOT III
VHR 6/5
ZONED R-20

SWM POND NO. 1
VHR 6/5 F-90-97

WETLANDS

NO.	DATE	DESCRIPTION OF REVISION
3	10/12/91	Revised Parcels, Lots, Title Block, Census Tr.
2	8/6/91	Added Note: Cedar Lane Entrance
1	5/13/91	Added Entrance Road and Storm Drain

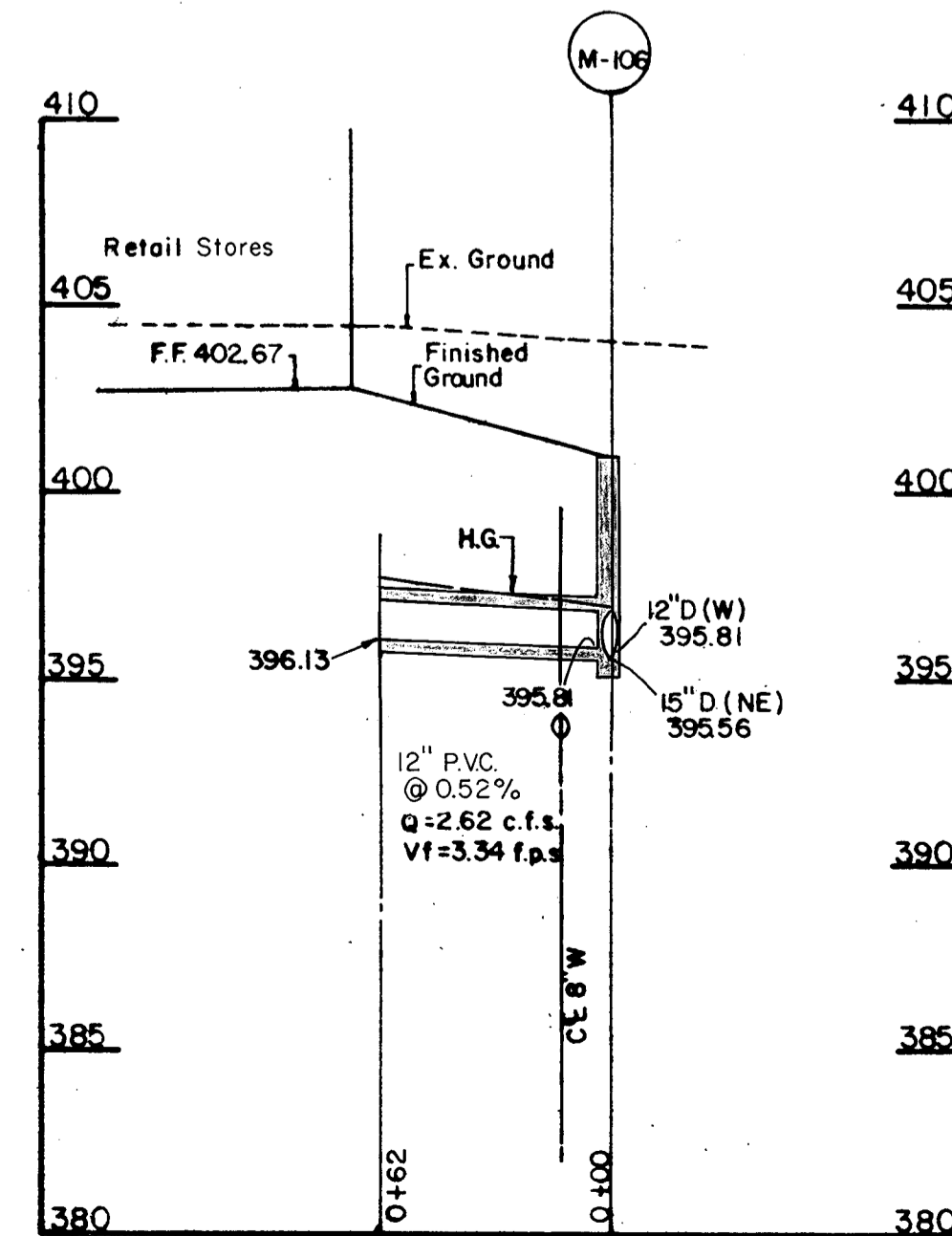
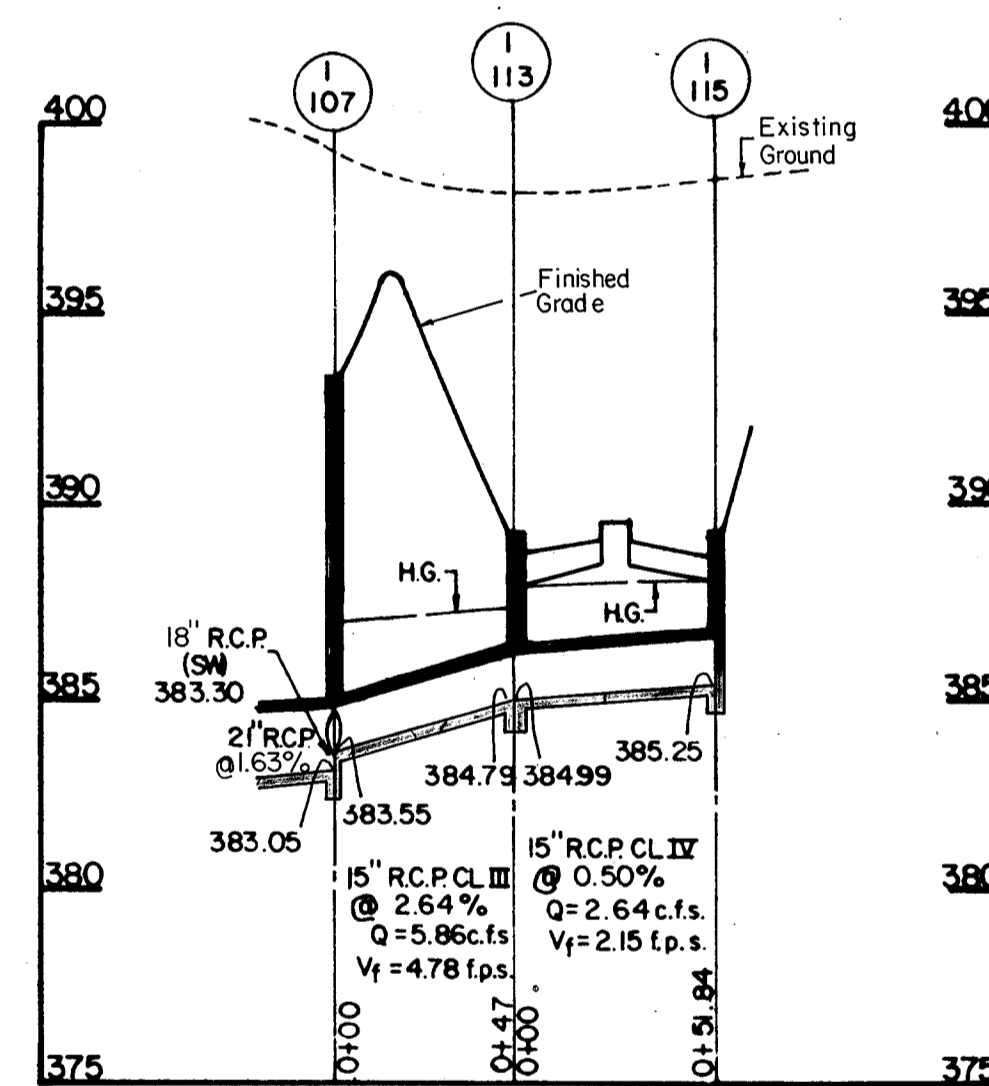
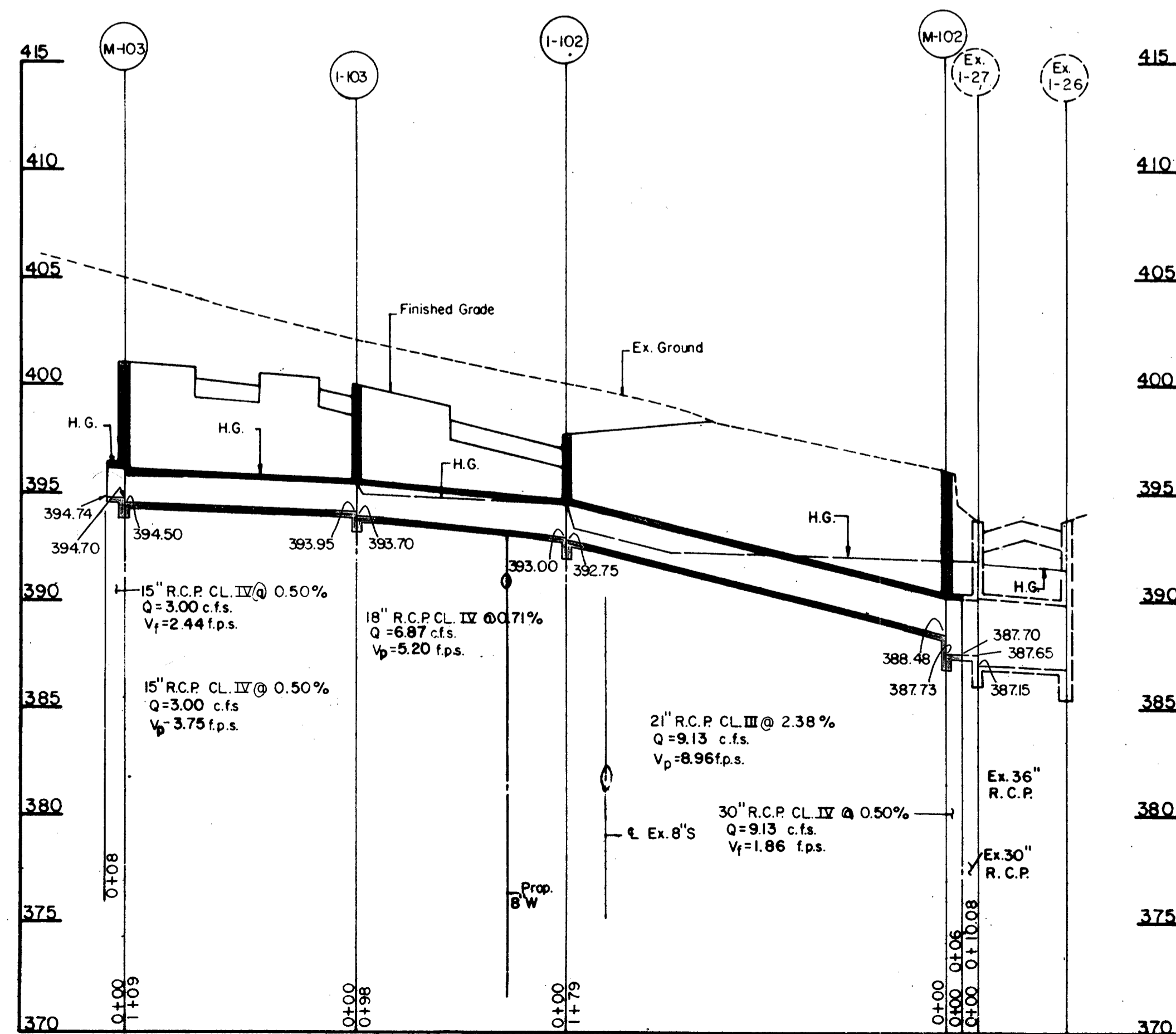
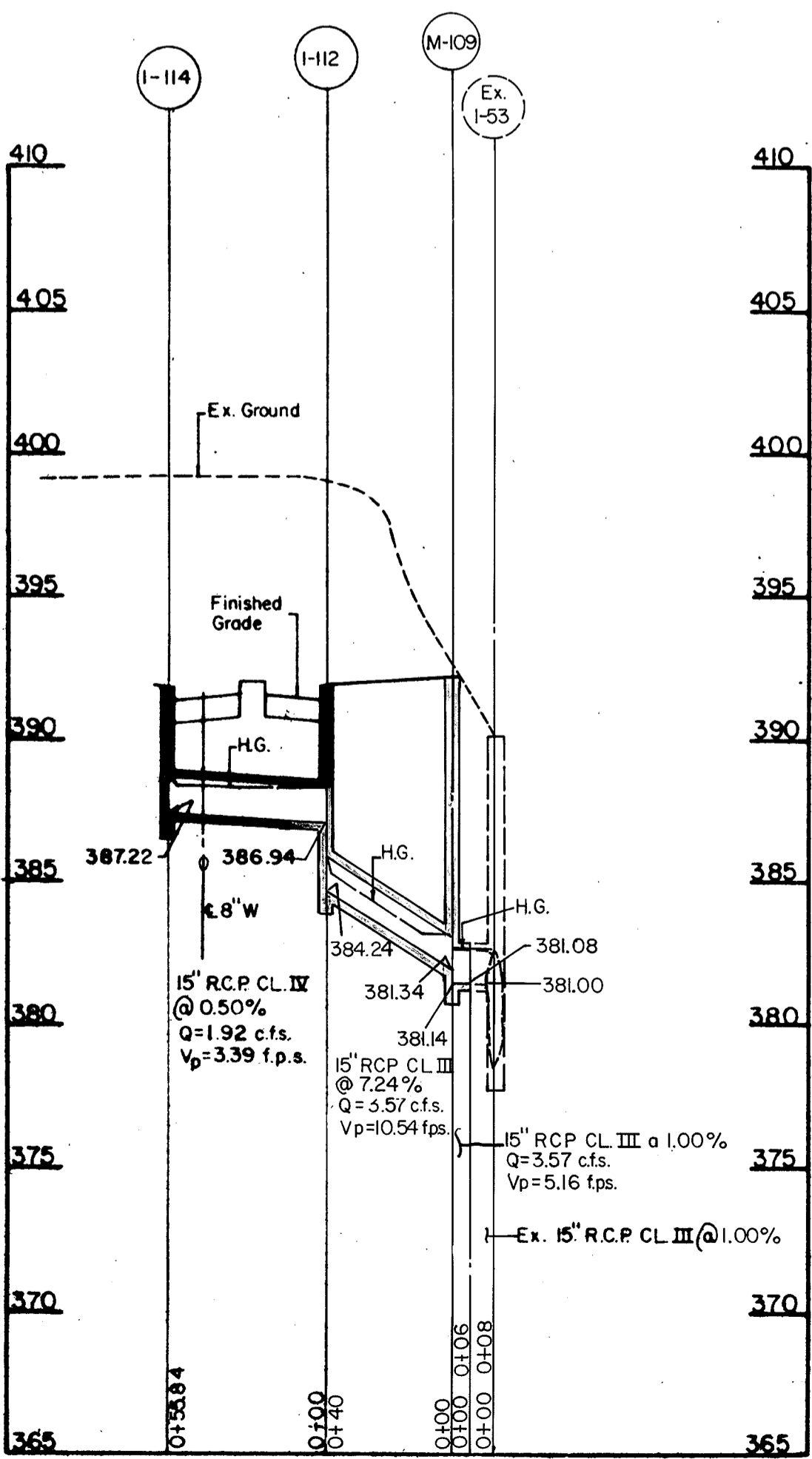
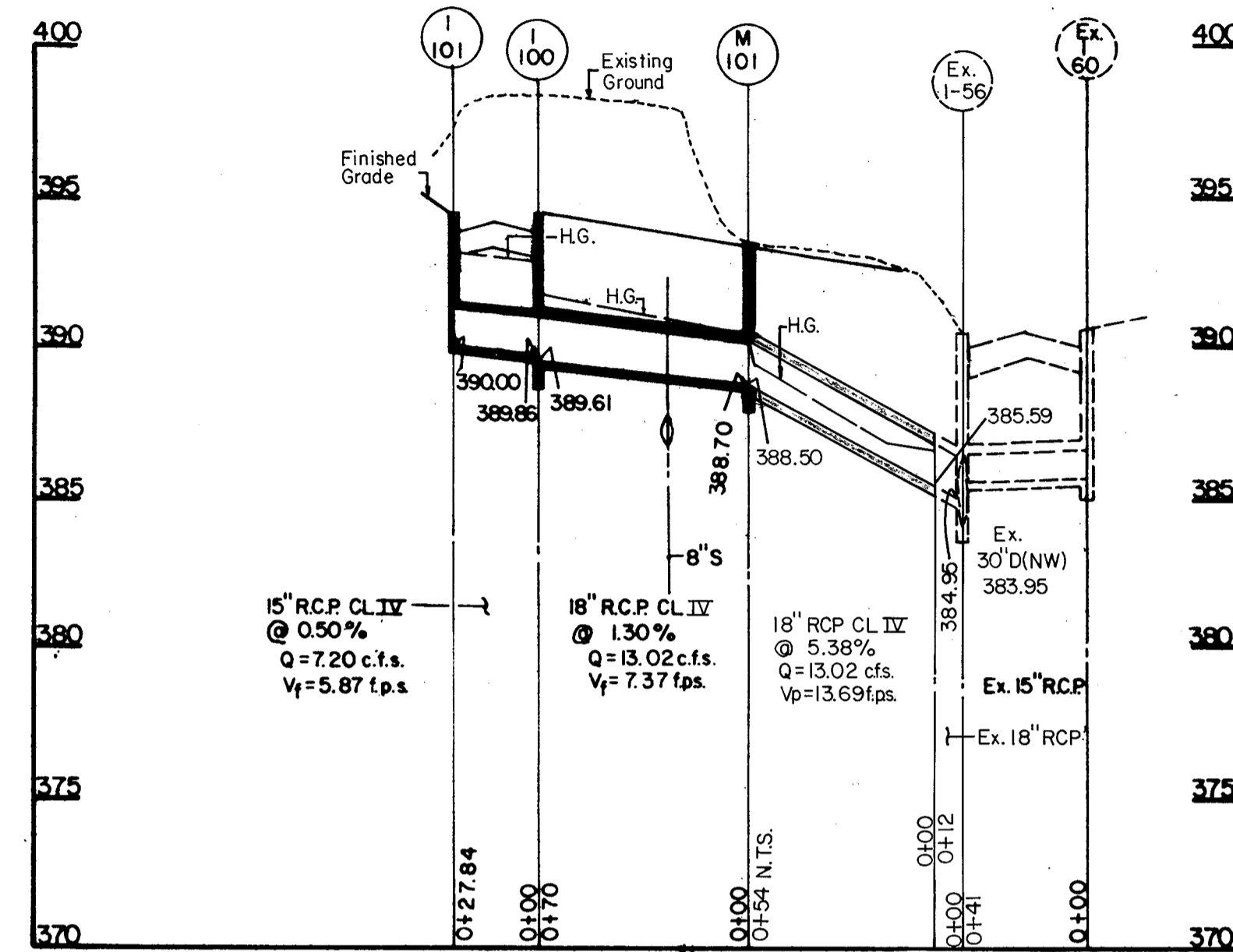
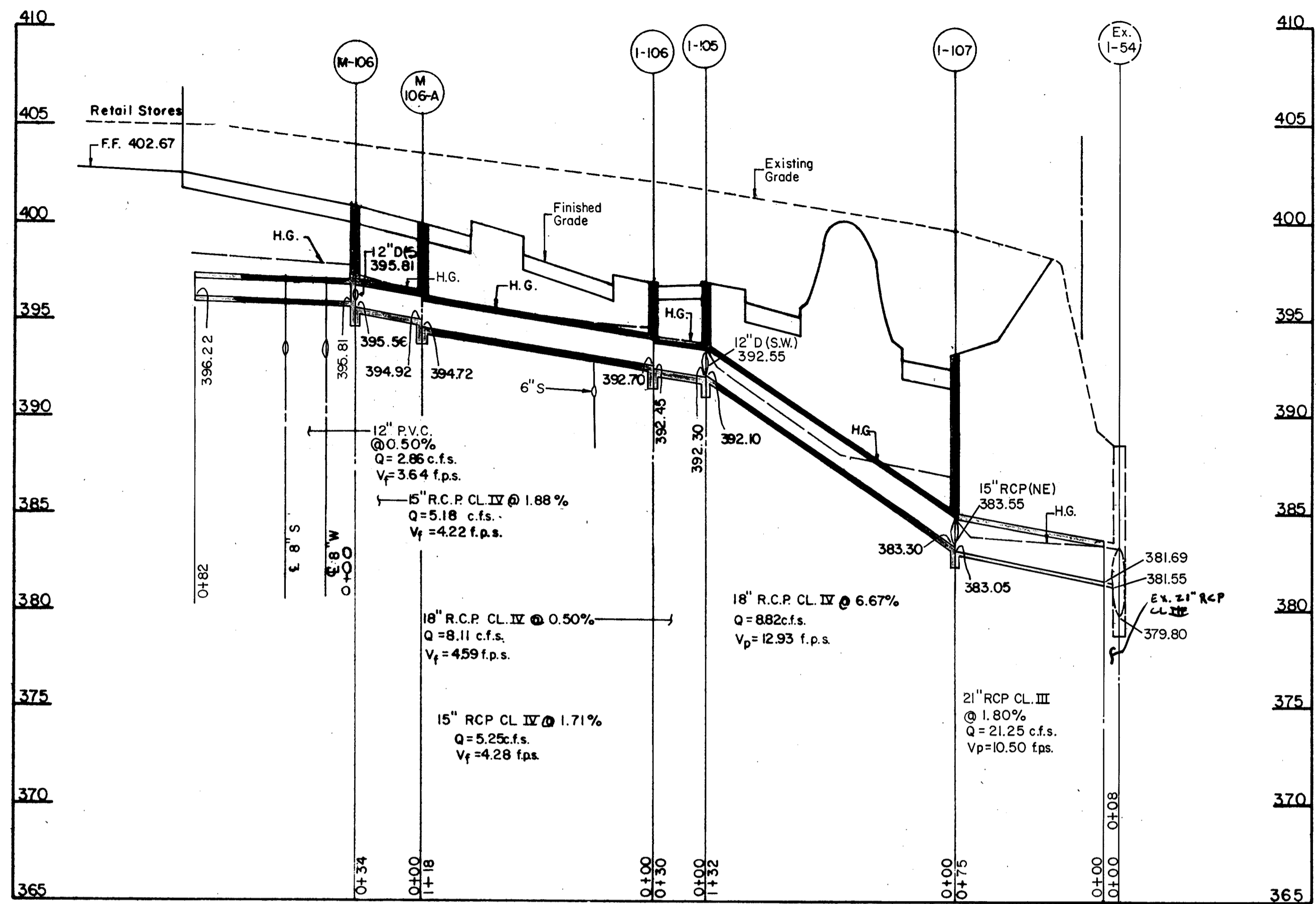
COLUMBIA
SITE DEVELOPMENT PLAN
SECTION 6 AREA 345
PARCEL A-1 LOTS III-113
HICKORY RIDGE VILLAGE CENTER
DRAINAGE AREA MAP

SHEET 10 OF 18

SUBDIVISION NAME			SECTION/AREA	PARCEL	
VILLAGE OF HICKORY RD #4			6/345	A-1 LOTS III-113	
PLAT	BLOCK	ZONE	TAX/ZONE MAP	ELEC. DIST.	CENSUS TR.
938-9740	18	Comm.	35	5	6056
WATER CODE			SEWER CODE		
E-29			6580000		

ELECTION DISTRICT NO. 5
HOWARD COUNTY, MARYLAND
DATE: Mar 4, 1991

PARCEL 110 & 112
TAX MAP NO. 35
SCALE: 1" = 50'



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

John J. ... 11-1-91
COUNTY HEALTH OFFICER DATE

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

... 10/28/91
DIRECTOR DATE

... 10-28-91
CHIEF, BUREAU OF ENGINEERING DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

... 11/12/91
PLANNING DIRECTOR DATE

... 11/12/91
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

APPROVED: ...
12-18-90
...

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

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

Thomas J. ... 9/12/91
THOMAS J. HAFFER P.E. NO. 8457



SUBDIVISION NAME VILLAGE CENTER		SECTION/AREA 6/315	PARCEL A-1, LOTS III-113
PLAT 0128-9740	BLOCK 1B	TAX/ZONE MAP 35	ELEC. DIST. 5
WATER CODE E-29		SEWER CODE 6580000	

SCALE: HOR. 1"=50'
VER. 1"=5'

NO.	DATE	DESCRIPTION OF REVISION
3	1/8/92	Added 6" S to Profile
2	10/12/91	Revised Parcels, Lots, Title Blocks, Census Tr.
1	5/13/91	Revised Storm Drain Profiles

COLUMBIA
SITE DEVELOPMENT PLAN
SECTION 6 AREA 315
PARCEL A-1, LOTS III-113
VILLAGE CENTER

STORM DRAIN PROFILES

SHEET 11 OF 18

ELECTION DISTRICT NO. 5
HOWARD COUNTY, MARYLAND
DATE: MAR 4, 1991

PARCEL
TAX MAP NO. 35
SCALE: AS SHOWN

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

James J. [Signature] 11-1-91
COUNTY HEALTH OFFICER DATE

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

James J. [Signature] 10/29/91
DIRECTOR DATE

[Signature] 10-28-91
CHIEF, BUREAU OF ENGINEERING DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

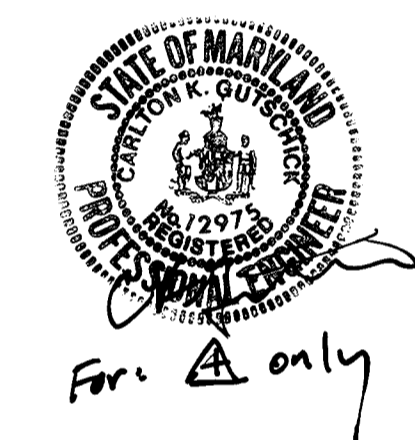
[Signature] 11/13/91
PLANNING DIRECTOR DATE

[Signature] 11/21/91
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

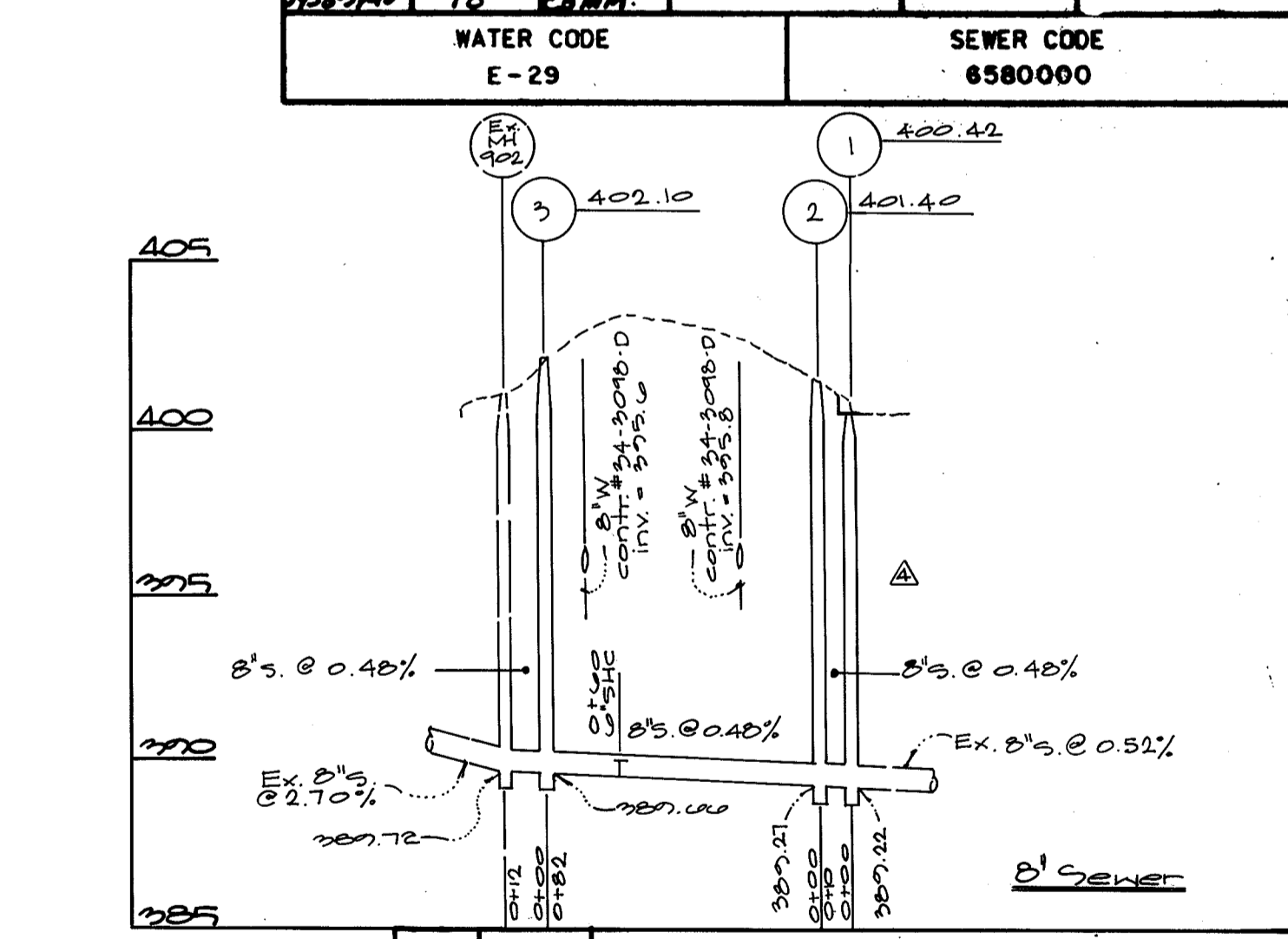
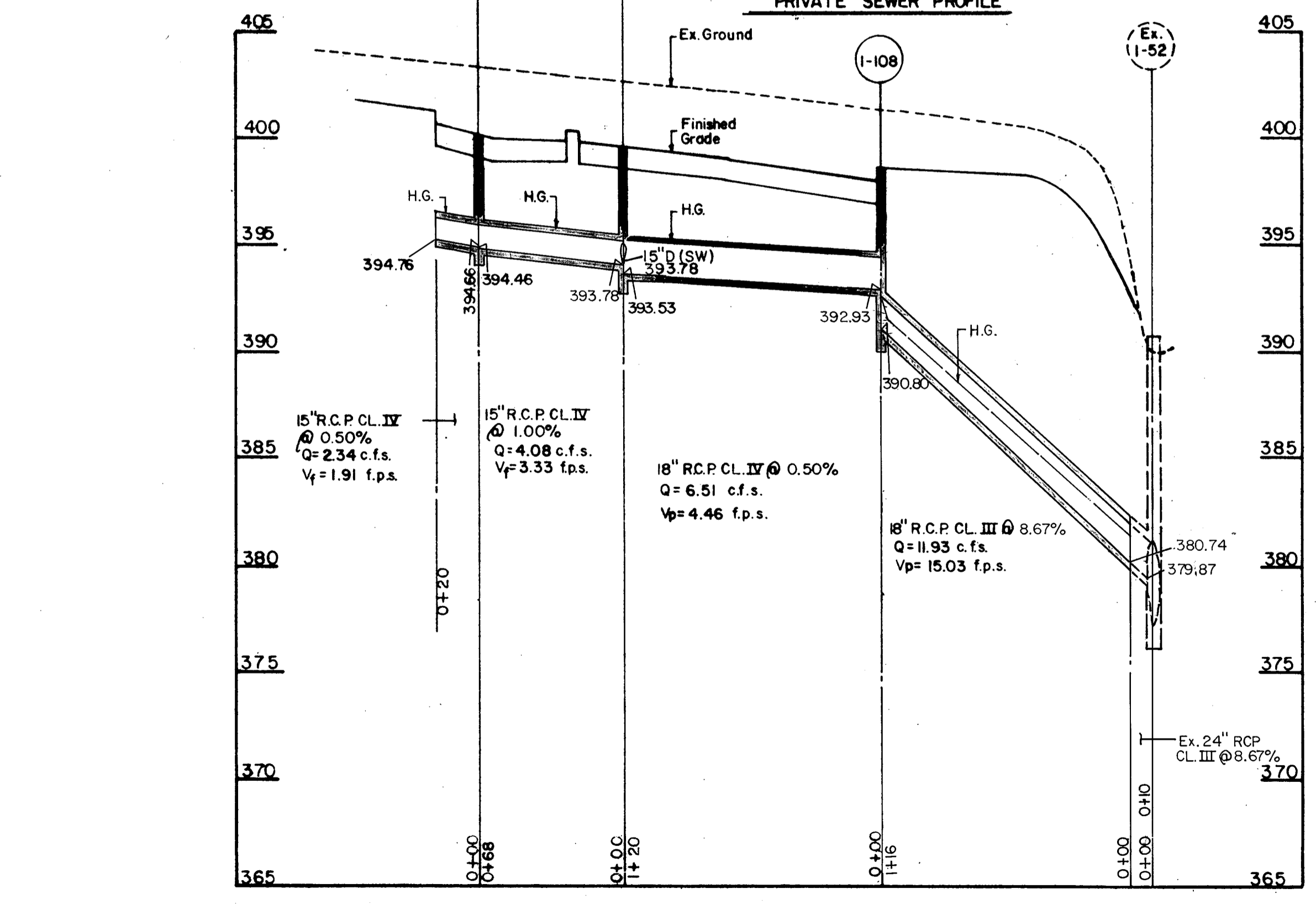
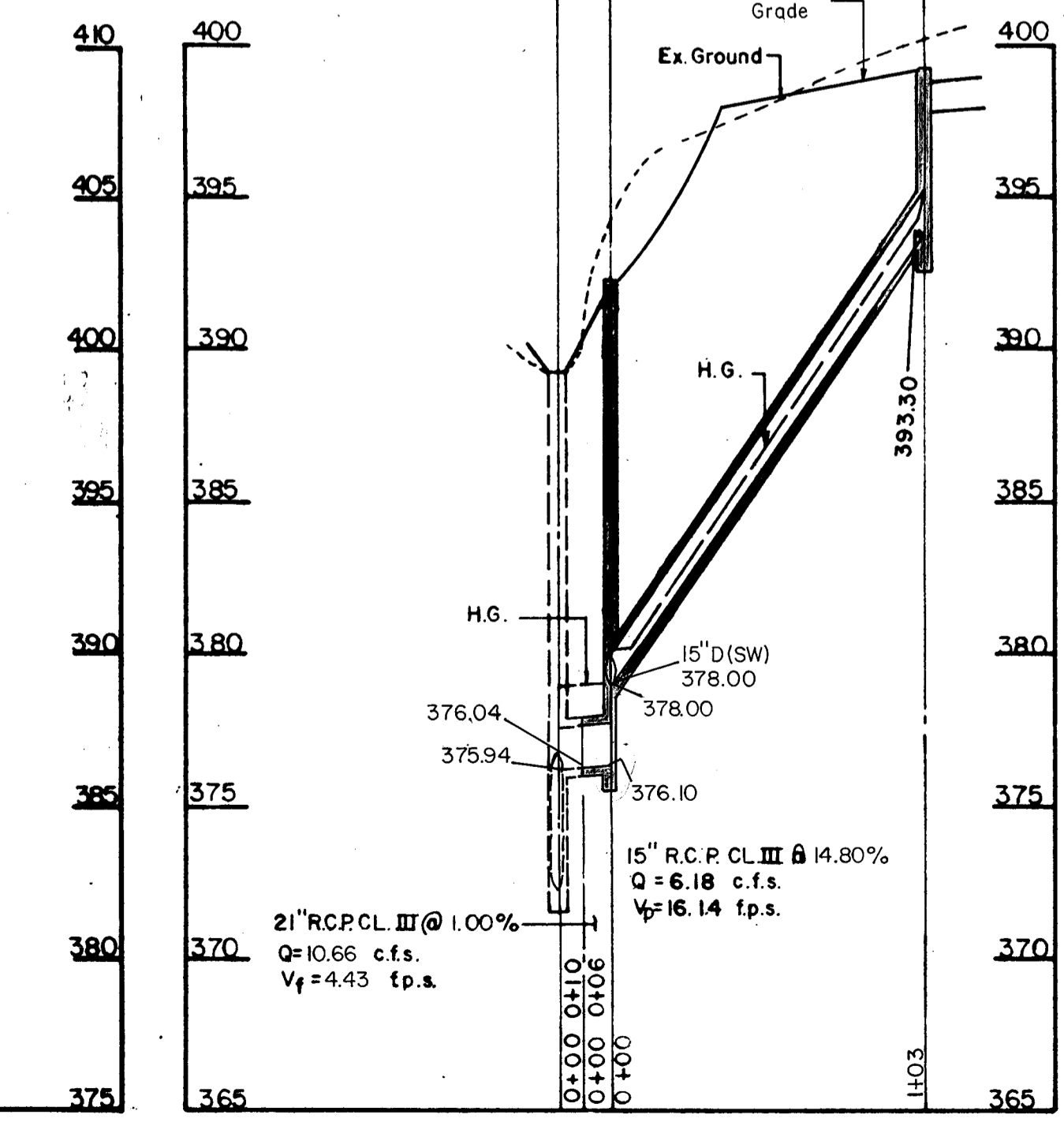
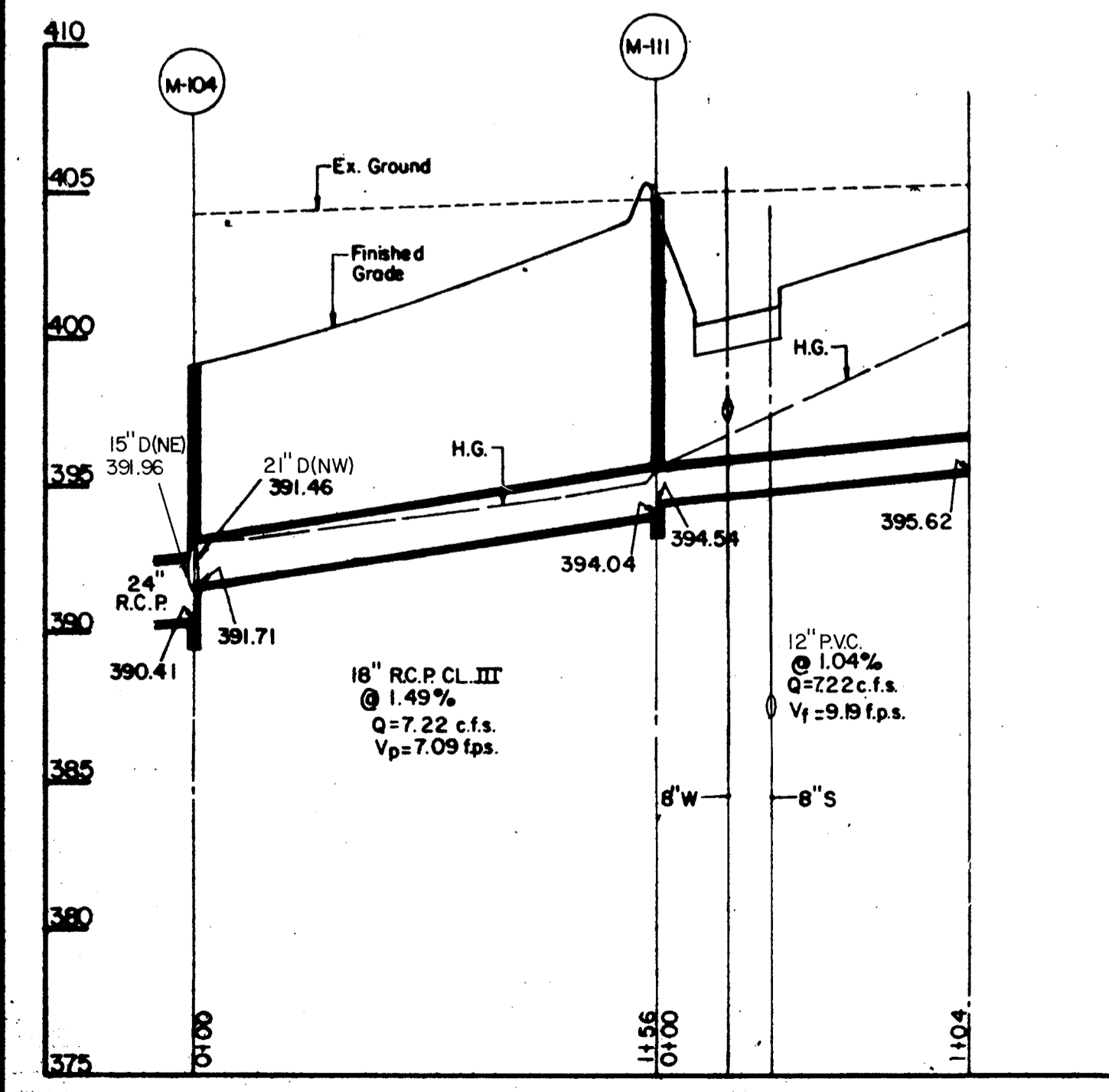
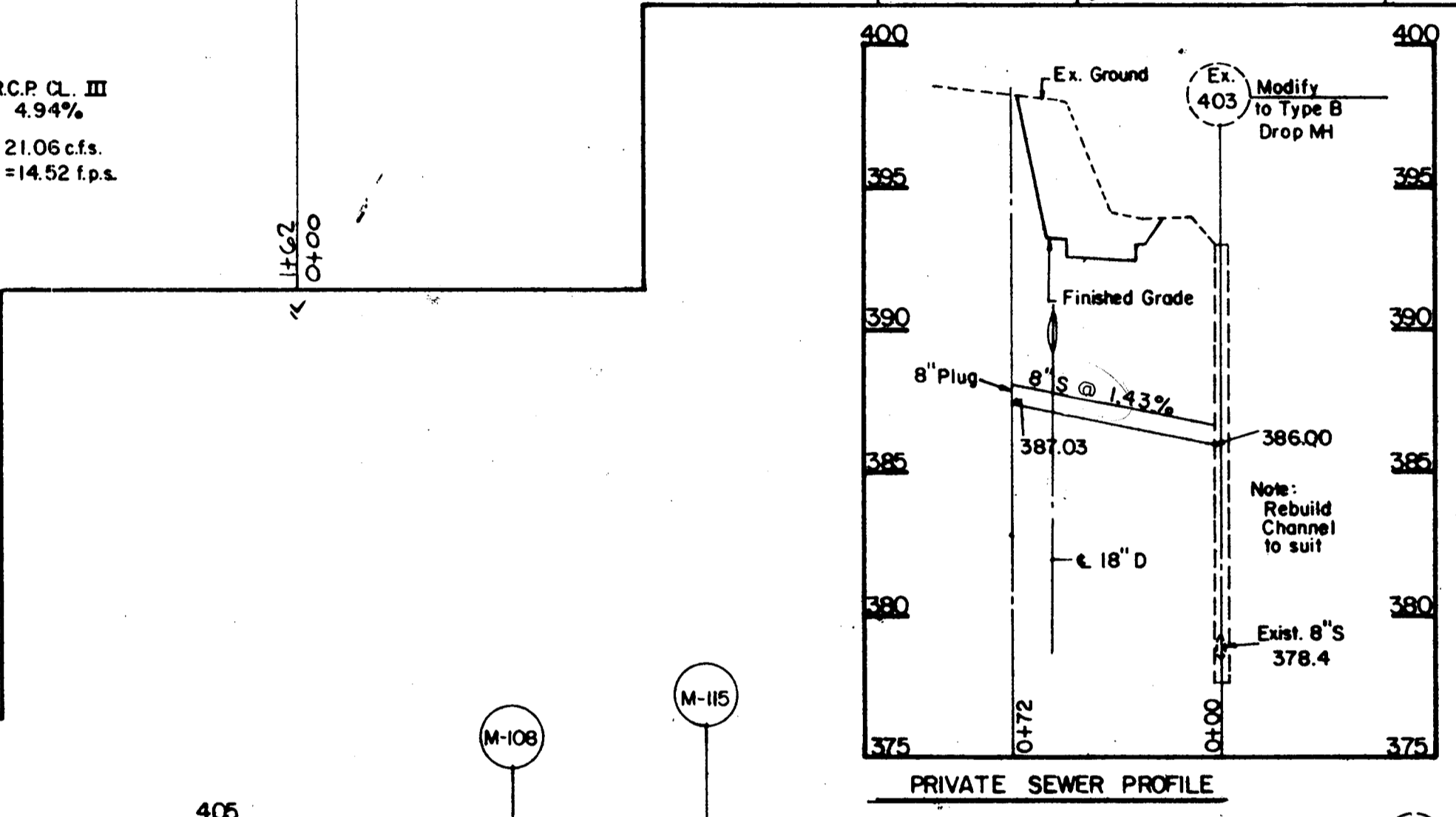
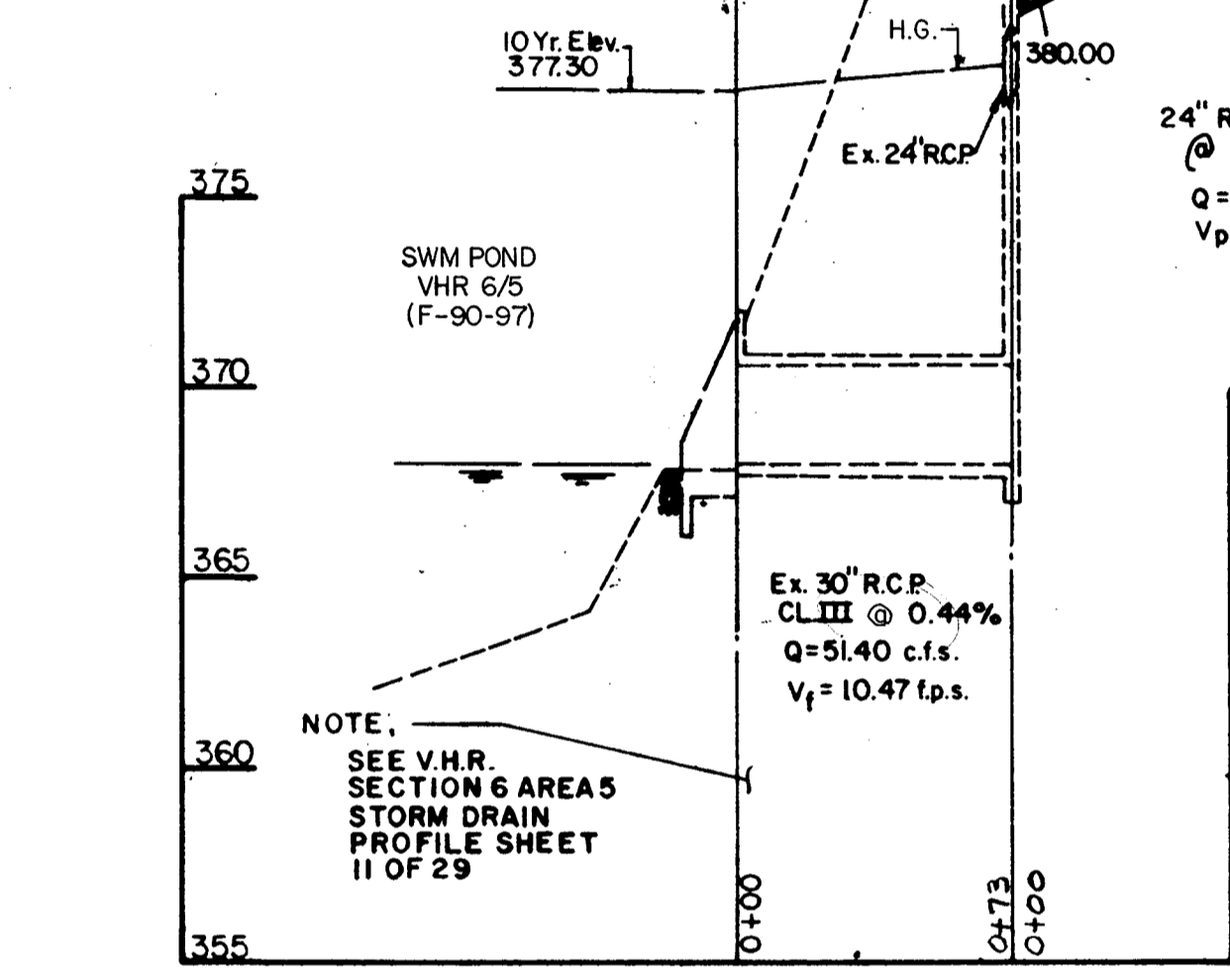
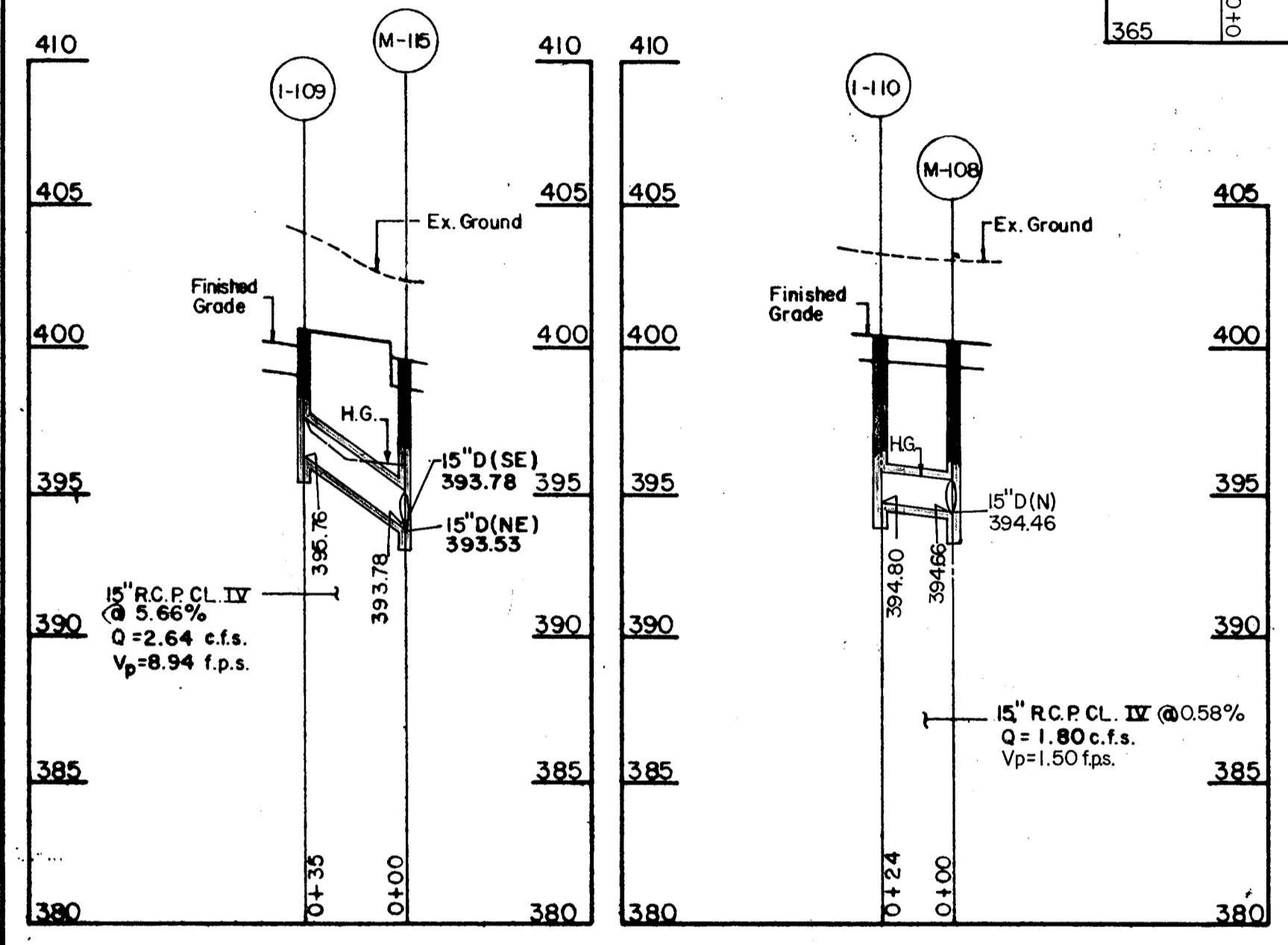
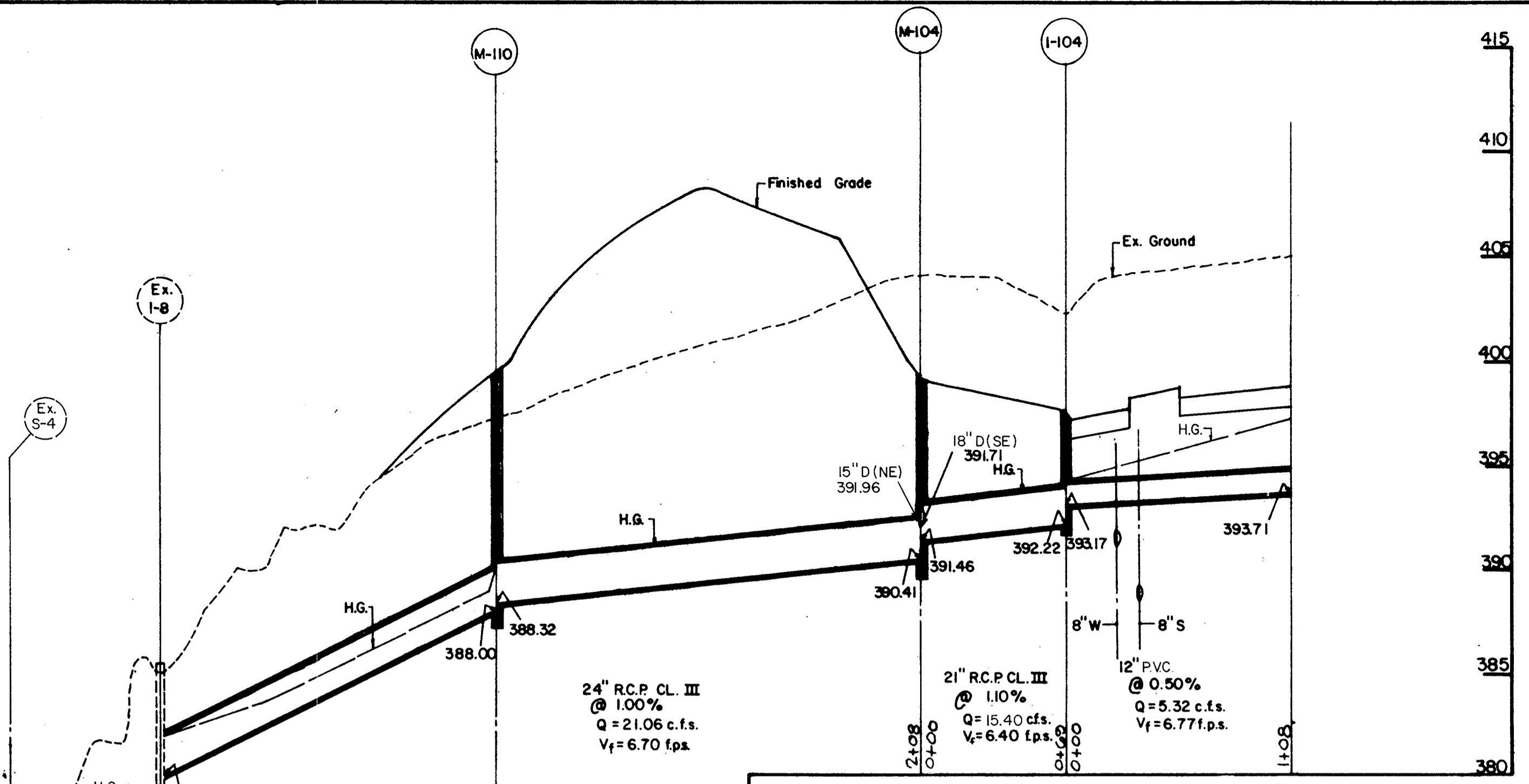
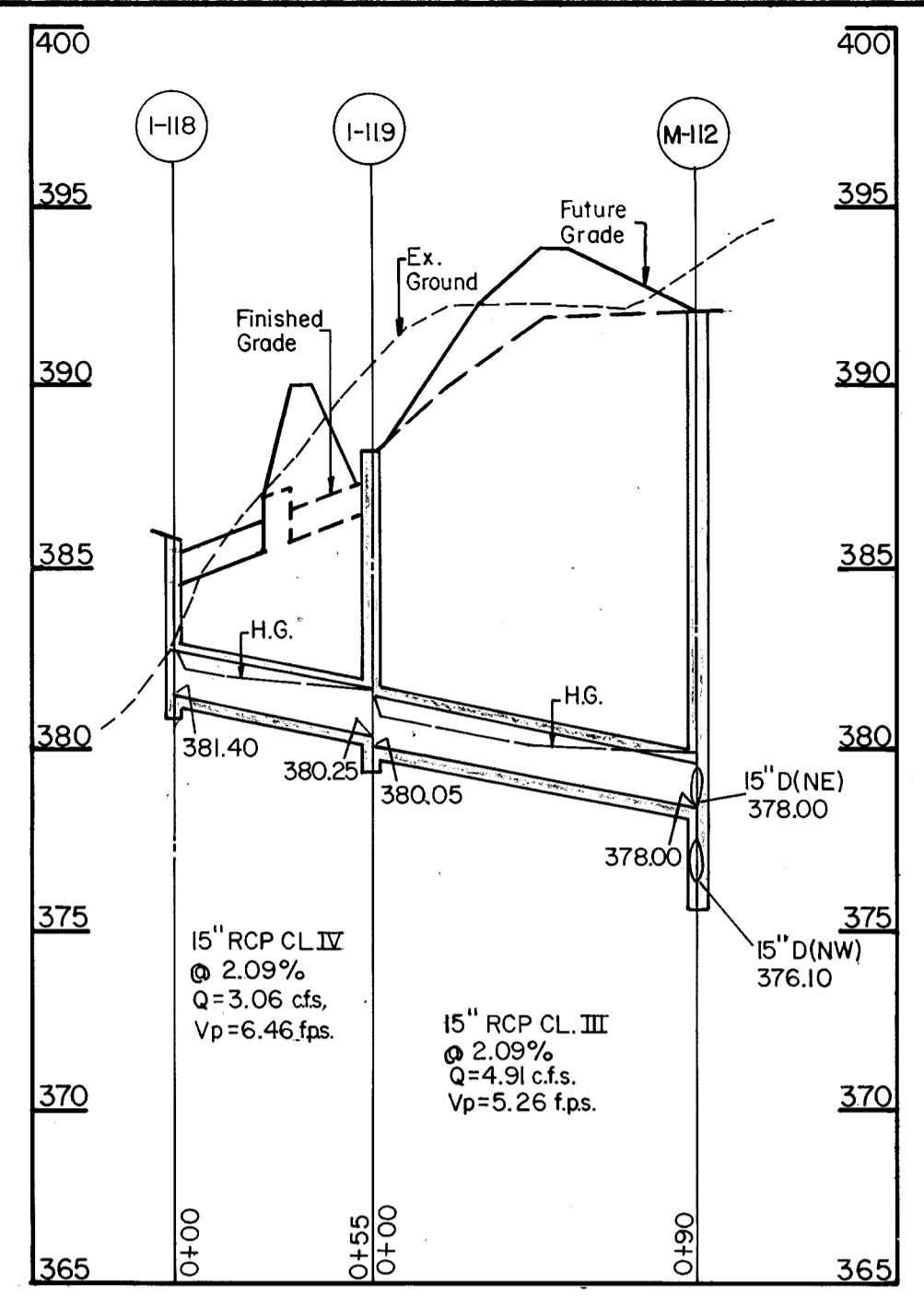
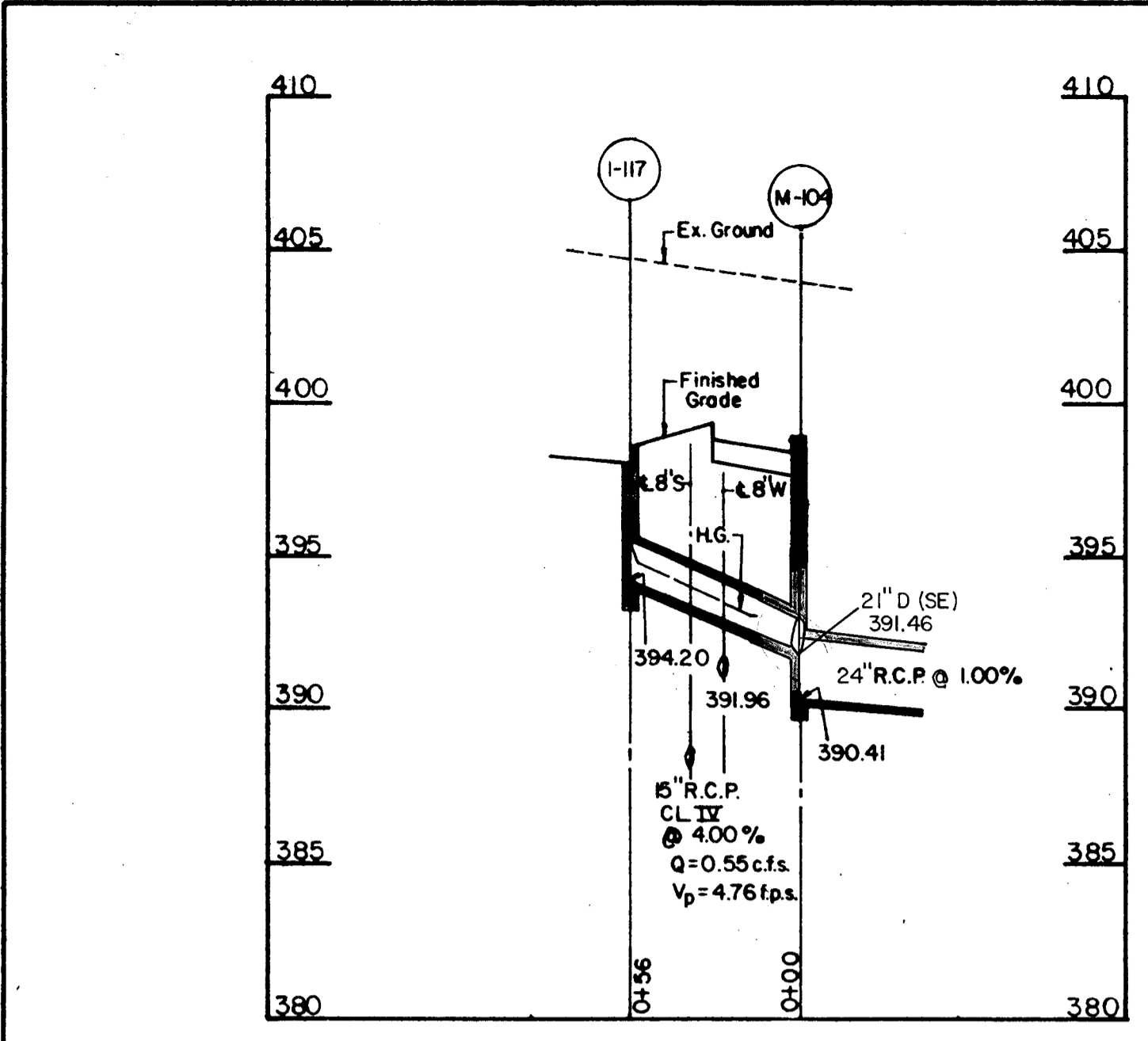
OWNER AND DEVELOPER
THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION
10275 LITTLE PATUXENT PARKWAY
COLUMBIA, MARYLAND 21043

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

Thomas J. Shaffer 9/12/91
THOMAS J. SHAFER P.E. NO. 9457



SUBDIVISION NAME VILLAGE CENTER				SECTION/AREA 6/315	PARCEL A-1, LOTS III-113
PLAT 2218-2216	BLOCK 18	ZONE NT	TAX/ZONE MAP 35	ELEC. DIST. 5	CENSUS TR. 6056
WATER CODE E-29				SEWER CODE 6580000	



Profiles
scale: 1" = 5' vert
1" = 50' Horz.

4	8/22/91	Added 8" S profile
No.	Date	Description of Revision

3	10/12/91	Revised Parcels, Lots, Title Block, Census Tr.
2	8/6/91	Revised Storm Drain Profile I-118 to M-112 - Interim Grade shown
1	5/13/91	Revised Storm Drain Profiles
No.	Date	Description of Revision

COLUMBIA
SITE DEVELOPMENT PLAN
SECTION 6 AREA 315
PARCEL A-1, LOTS III-113
VILLAGE CENTER

SEWER & STORM DRAIN PROFILES

SHEET 12 OF 18

ELECTION DISTRICT NO. 5
HOWARD COUNTY, MARYLAND
DATE: Mar 9, 1991

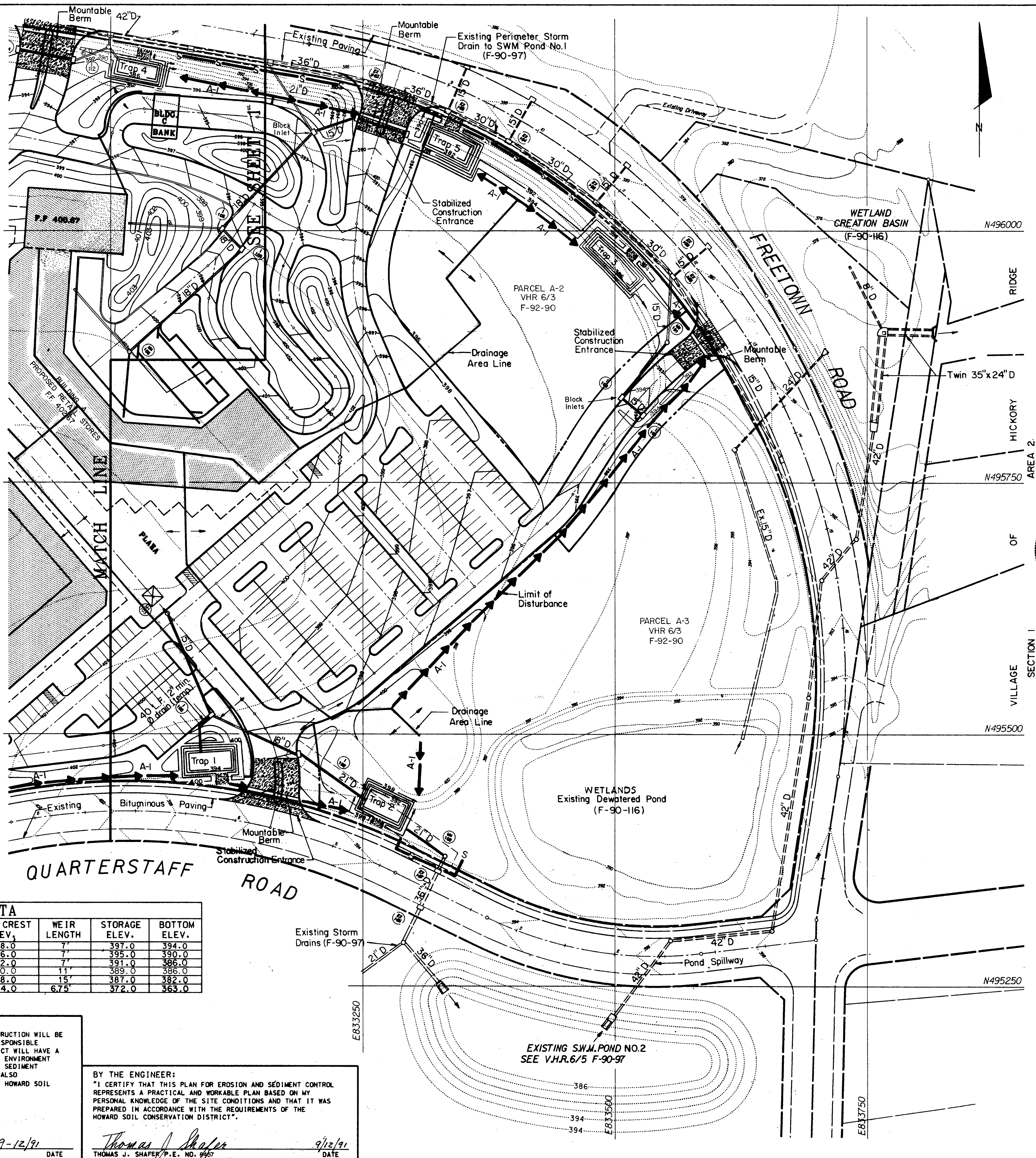
PARCEL
TAX MAP NO. 35
SCALE: AS SHOWN

SDP-91-47

9/2/91

CONSTRUCTION SEQUENCE

1. OBTAIN GRADING PERMIT
2. SEE SEDIMENT CONTROL FOR THE VILLAGE OF HICKORY RIDGE SECTION 6 AREA 3 (F-90-116). SWM POND NO. 1 (F-90-97) SHALL CONTINUE AS A SEDIMENT BASIN FOR THIS WORK. THE WESTERN SIDE OF THE VILLAGE CENTER SITE DRAINS NATURALLY TO THE SEDIMENT BASIN VIA EXISTING SWALES, SUMPED INLETS AND THE PERIMETER STORM DRAIN SYSTEM.
3. CONSTRUCT STONE ENTRANCES WITH MOUNTABLE BERMS, DIKES, SILT FENCES AND SEDIMENT TRAPS AS SHOWN. THE TEMPORARY DRAIN PIPES SHALL BE PLACED AT THE TRAP INVERT ELEVATION. SWM POND NO.2 SHALL ALSO BE USED AS A SEDIMENT BASIN.
4. GRADE AND CONSTRUCT THE PROPOSED VILLAGE CENTER SITE AND STABILIZE.
5. AFTER APPROVAL BY THE SEDIMENT CONTROL INSPECTOR, REMOVE TRAP 2 AND COMPLETE STORM DRAIN SYSTEM.
6. AFTER APPROVAL BY THE SEDIMENT CONTROL INSPECTOR, REMOVE TEMPORARY DRAIN PIPES AND THE SEDIMENT CONTROL FACILITIES
7. ANY SEDIMENT ACCUMULATION IN THE SWM PONDS AND STORM DRAIN INLETS SHALL BE REMOVED.



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

Joseph B. ... 11-1-91
COUNTY HEALTH OFFICER DATE

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

James J. ... 10/29/91
DIRECTOR DATE

... 10-23-91
CHIEF, BUREAU OF ENGINEERING DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

... 11/12/91
PLANNING DIRECTOR DATE

Thomas J. Shafer 11/12/91
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

APPROVED
12-18-90
845

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

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

Thomas J. Shafer 9/12/91
THOMAS J. SHAFER P.E. NO. 8457



SUBDIVISION NAME VILLAGE OF HICKORY RIDGE				SECTION/AREA 6/3 #5	PARCEL A-1, LOTS III-113
PLAT 2308-976	BLOCK 18	ZONE NT Comm.	TAX/ZONE MAP 35	ELEC. DIST. 5	CENSUS TR. 6056
WATER CODE E-29			SEWER CODE 6580000		

SEDIMENT TRAP DESIGN DATA

TRAP NO.	TYPE	DRAINAGE AREA	VOLUME REQUIRED	VOLUME AVAILABLE	TOP BERM ELEV.	WEIR CREST ELEV.	WEIR LENGTH	STORAGE ELEV.	BOTTOM ELEV.
1	ST VI	1.7 AC.	0.07 AF	0.08 AF	400.0	398.0	7'	397.0	394.0
2	ST VI	1.5 AC.	0.06 AF	0.08 AF	398.0	396.0	7'	395.0	390.0
3	ST VI	3.5 AC.	0.16 AF	0.16 AF	394.0	392.0	7'	391.0	386.0
4	ST VI	2.8 AC.	0.12 AF	0.11 AF	392.0	390.0	11'	389.0	386.0
5	ST VI	3.0 AC.	0.12 AF	0.12 AF	390.0	388.0	15'	387.0	382.0
* SWM POND NO.1		44.5 AC.	1.85 AF	1.85 AF	381.0	374.0	6.75'	372.0	363.0

* SEE DETAIL ON SHEET 23 OF 29, VHR RD. DWG. F-90-97

REVIEWED FOR HOWARD S.C.D. AND MEETS THE TECHNICAL REQUIREMENTS.

Joseph H. ... 10/23/91
SOIL CONSERVATION SERVICE DATE

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

Joseph H. ... 10/21/91
HOWARD S.C.D. DATE

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 ENVIRONMENT 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."

Joseph H. ... 9-12/91
JOSEPH H. NECKER, JR. 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."

Thomas J. Shafer 9/12/91
THOMAS J. SHAFER P.E. NO. 8457 DATE

3	1/8/92	Remove Retail Bldg; Grading; Remove Road 9
2	10/12/91	Revised Parcels, Lots, Title Block, Census Tr.
1	5/14/91	Revised Storm Drain and Grading
NO.	DATE	DESCRIPTION OF REVISION

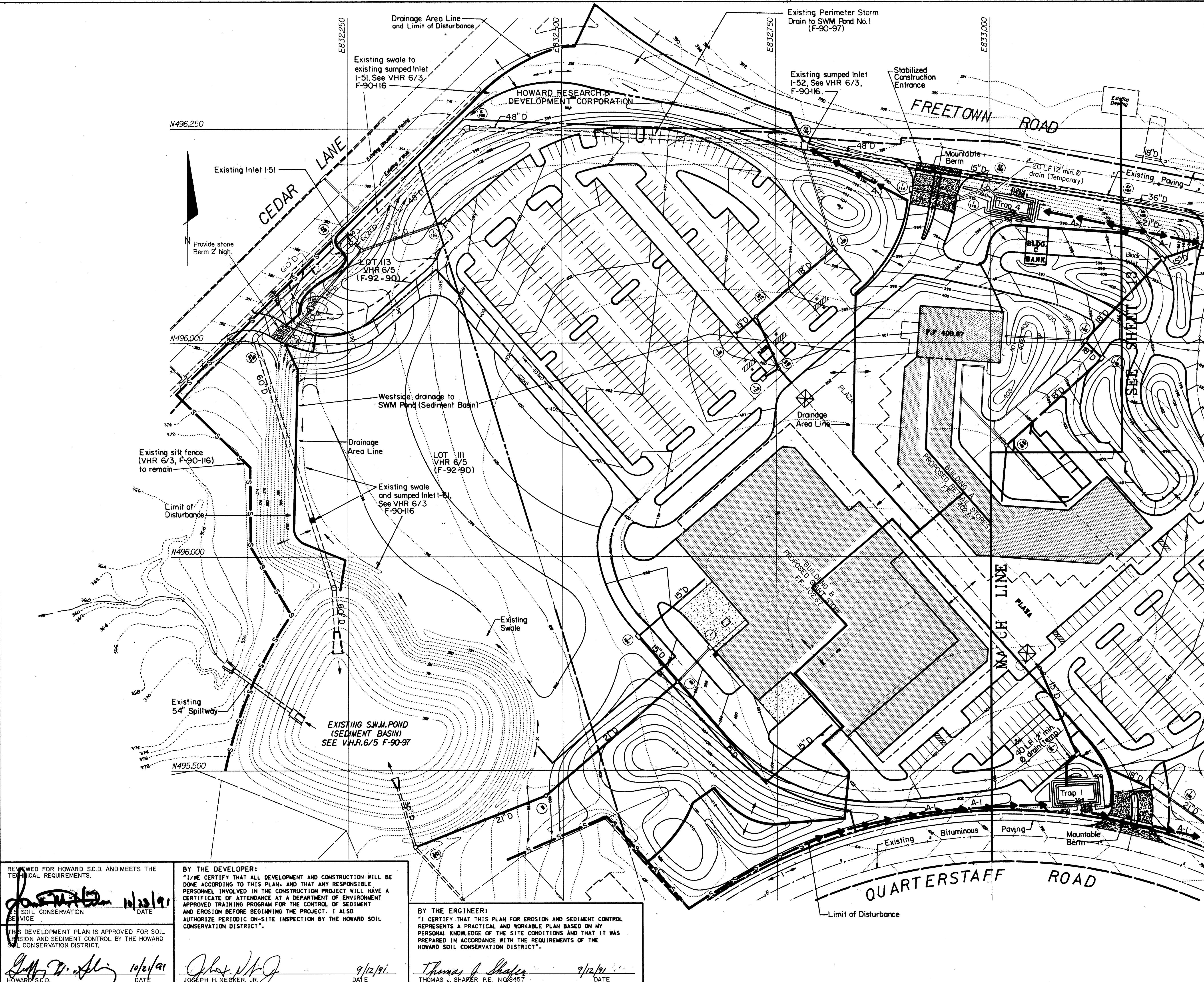
COLUMBIA
SITE DEVELOPMENT PLAN
SECTION 6 AREA 3 #5
PARCEL A-1, LOTS III-113
HICKORY RIDGE VILLAGE CENTER

SEDIMENT CONTROL PLAN

SHEET 13 OF 18

ELECTION DISTRICT NO.5
HOWARD COUNTY, MARYLAND
DATE: Mar. 4, 1991

PARCEL 110 & 112
TAX MAP NO. 35
SCALE: 1" = 50'



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

John H. Gode 11-1-91
 COUNTY HEALTH OFFICER DATE

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

James P. Schum 10/28/91
 DIRECTOR DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

James P. Schum 11/12/91
 PLANNING DIRECTOR DATE

Emmal Helms 11/2/91
 CHIEF, DIVISION OF COMMUNITY
 PLANNING AND LAND DEVELOPMENT DATE

APPROVED
 PLANNING & ZONING
 HOWARD COUNTY

DATE: 12-18-90
JKS

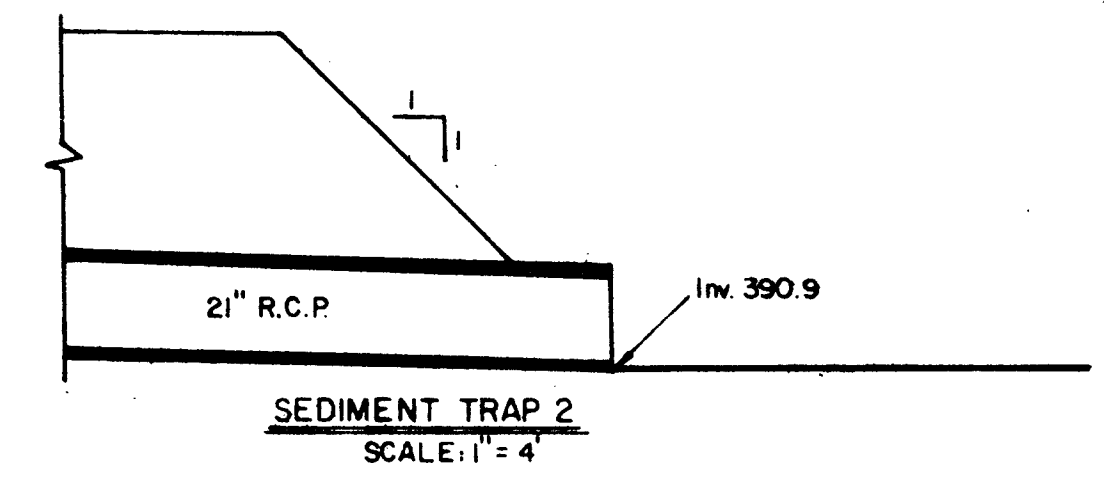
OWNER AND DEVELOPER
 THE HOWARD RESEARCH AND
 DEVELOPMENT CORPORATION
 10275 LITTLE PATUXENT PARKWAY
 COLUMBIA, MARYLAND 21043

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

Thomas J. Shafer 9/12/91
 THOMAS J. SHAFER P.E. NO. 6457



SUBDIVISION NAME VILLAGE OF HICKORY RIDGE		SECTION/AREA 6/3 #5	PARCEL A-1 & LOTS III, III3
PLAT 9738-9740	BLOCK 1/B	ZONE N1 Comd.	TAX/ZONE MAP 35
WATER CODE E-29		ELEC. DIST. 5	CENSUS TR. 6056
SEWER CODE 6580000			



NO.	DATE	DESCRIPTION OF REVISION
4	1/8/92	Added Retail Bldg; Remove Rd.9; Revised Grading
3	10/12/91	Revised Parcels, Lots, Title Block, Census Tract
2	8/6/91	Revised Drainage Area Cedar Lane Entrance
1	5/13/91	Added Entrance Road and Storm Drain

COLUMBIA
 SITE DEVELOPMENT PLAN
 SECTION 6 AREA 3 #5
 PARCEL A-1 & LOTS III, III3
 HICKORY RIDGE VILLAGE CENTER

SEDIMENT CONTROL PLAN

SHEET 14 OF 18

ELECTION DISTRICT NO. 5
 HOWARD COUNTY, MARYLAND
 DATE: Mar 5, 1991

PARCEL 110 & 112
 TAX MAP NO. 35
 SCALE: 1" = 50'

REVIEWED FOR HOWARD S.C.D. AND MEETS THE
 TECHNICAL REQUIREMENTS.

Joseph H. Necker, Jr. 10/23/91
 SOIL CONSERVATION SERVICE DATE

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

Joseph H. Necker, Jr. 10/23/91
 HOWARD S.C.D. DATE

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 ENVIRONMENT
 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."

Joseph H. Necker, Jr. 9/12/91
 JOSEPH H. NECKER, JR. 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."

Thomas J. Shafer 9/12/91
 THOMAS J. SHAFER P.E. NO. 6457 DATE

TEMPORARY SEEDING NOTES

APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE REDISTURBED WHERE A SHORT-TERM VEGETATIVE COVER IS NEEDED.

SEEDING 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 ACHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING, OR USE SOD.

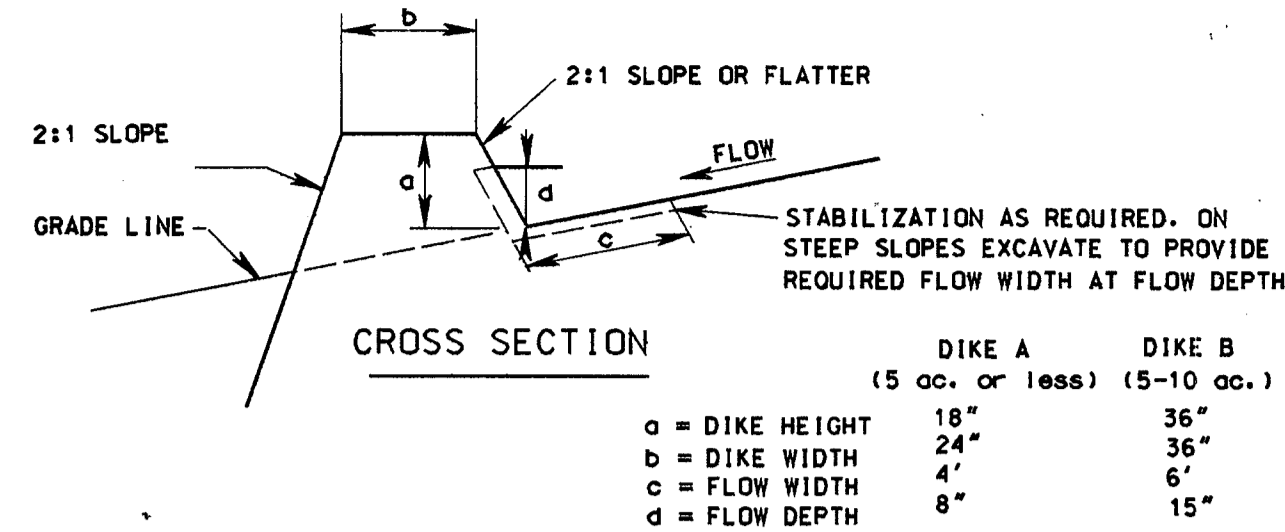
MULCHING: APPLY 1 1/2 TO 2 TONS PER ACRE (70 TO 90 LBS/1000 SQ FT) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING, ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GAL PER ACRE (5 GAL/1000 SQ FT) OF EMULSIFIED ASPHALT ON FLAT AREAS, ON SLOPES, 8 FT OR HIGHTER, USE 348 GAL PER ACRE (8 GAL/1000 SQ FT) FOR ANCHORING.

REFER TO THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED.

SEQUENCE OF CONSTRUCTION

- OBTAIN GRADING PERMIT.
- ARRANGE AN ON-SITE PRE-CONSTRUCTION MEETING WITH A SEDIMENT CONTROL INSPECTOR.
- INSTALL STABILIZED CONSTRUCTION ENTRANCE.
- INSTALL SILT FENCE ALONG LITTLE PATUXENT PARKWAY.
- CLEAR AND GRUB ONLY THE AREA NECESSARY TO CONSTRUCT SEDIMENT TRAP #1, SEDIMENT TRAP #2 AND EARTH DIKES. RAISE EXISTING INLET TO DESIGN ELEVATION.
- CONSTRUCT AND STABILIZE SEDIMENT TRAP #1, SEDIMENT TRAP #2 AND PERIMETER DIKES.
- CLEAR, GRUB AND ROUGH GRADE REMAINDER OF SITE ACCORDING TO PLANS, SHEETS 1 AND 2.
- STABILIZE ALL CONTRIBUTING AREAS IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS.
- ALL SEDIMENT CONTROL DEVICES TO REMAIN IN PLACE FOR FUTURE SITE DEVELOPMENT.

EARTH DIKE



CONSTRUCTION SPECIFICATIONS

- 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.

FLOW CHANNEL STABILIZATION

TYPE OF TREATMENT	CHANNEL GRADE	DIKE A	DIKE B
1	-5.0-0%	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; 2" 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 8 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.

SEDIMENT CONTROL NOTES

- 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 REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: (1) 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES; DIKES, PERIMETER SLOPES GREATER THAN 3:1; (2) 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 GRASS.
- ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMITS FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- SITE ANALYSIS:

TOTAL AREA OF SITE	20 ACRES
AREA DISTURBED	20 ACRES
AREA TO BE ROOFED OR PAVED	11 ACRES
AREA TO BE VEGETATIVELY STABILIZED	3 ACRES
TOTAL CU. YDS.	30,000 CU. YDS.
TOTAL FILL	30,000 CU. YDS.
OFFSITE WASTE/BORROW AREA LOCATION	(TO SPOIL AREA)
- 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 CONTROLS MUST BE PROVIDED, IF DEEMED NECESSARY BY 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 AREA NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG-LIVED VEGETATIVE COVER IS NEEDED.

SEEDING 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:

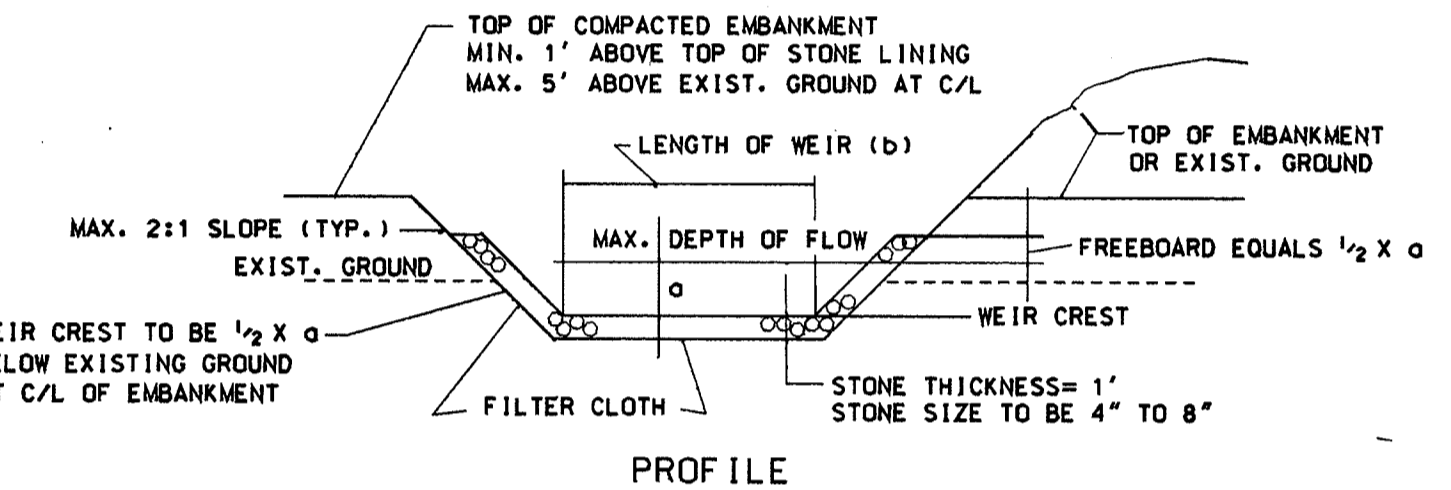
- PREFERRED - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS/1000 SQ FT) AND 600 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ FT) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE INCHES OF SOIL. AT TIME OF SEEDING, APPLY 400 LBS PER ACRE 30-0-0 UREAFORM FERTILIZER OR LBS/1000 SQ FT.
- ACCEPTABLE - 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 80 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 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.

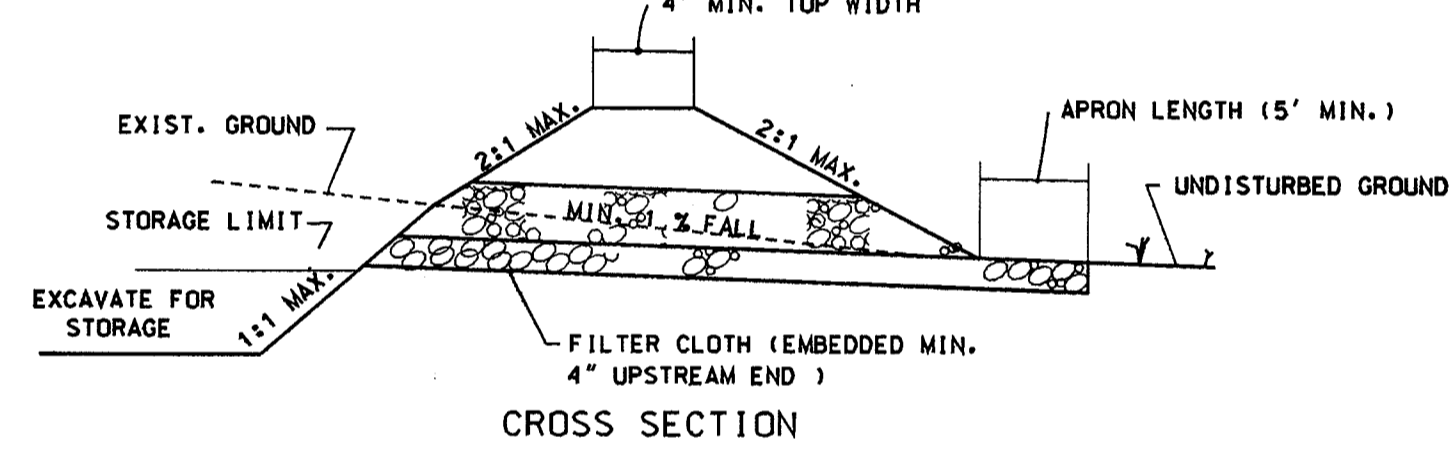
MULCHING - APPLY 1 1/2 TO 2 TONS PER ACRE (70 TO 90 LBS/1000 SQ FT) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING, ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GALLONS PER ACRE (5 GAL/1000 SQ FT) OF EMULSIFIED ASPHALT ON FLAT AREAS, ON SLOPES 8 FEET OR HIGHTER, USE 348 GALLONS PER ACRE (8 GAL/1000 SQ FT) FOR ANCHORING.

MAINTENANCE - INSPECTION ALL SEEDING AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDINGS.

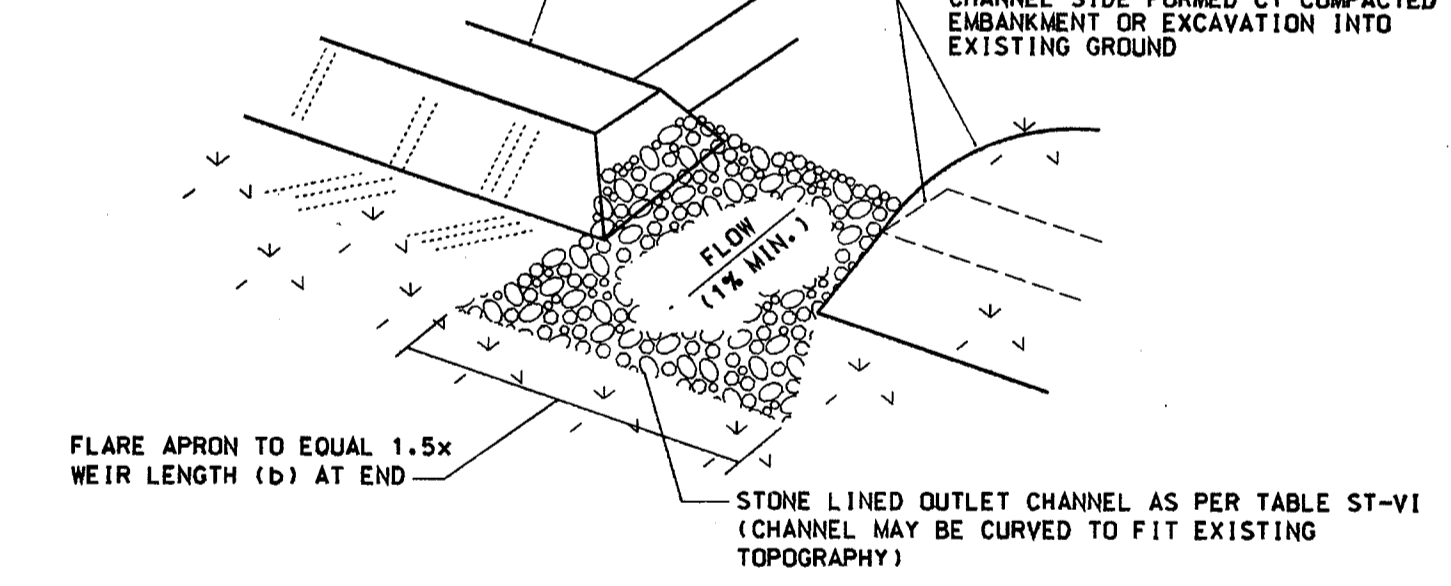
RIPRAP OUTLET SEDIMENT TRAP ST-V1



CROSS SECTION



PERSPECTIVE VIEW



CONSTRUCTION SPECIFICATIONS FOR ST-V1

- 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 OR VEGETATION AS WELL AS OVER-SIZED 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 WEIR 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. PLACEMENT OF 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 OR 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.

OWNER AND DEVELOPER

THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION
 10275 LITTLE PATUXENT PARKWAY
 COLUMBIA, MARYLAND 21043

WHITMAN, REQUARDT AND ASSOCIATES
 ENGINEERS
 2315 SAINT PAUL STREET
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 THOMAS J. SHAFER P.E. NO. 8457

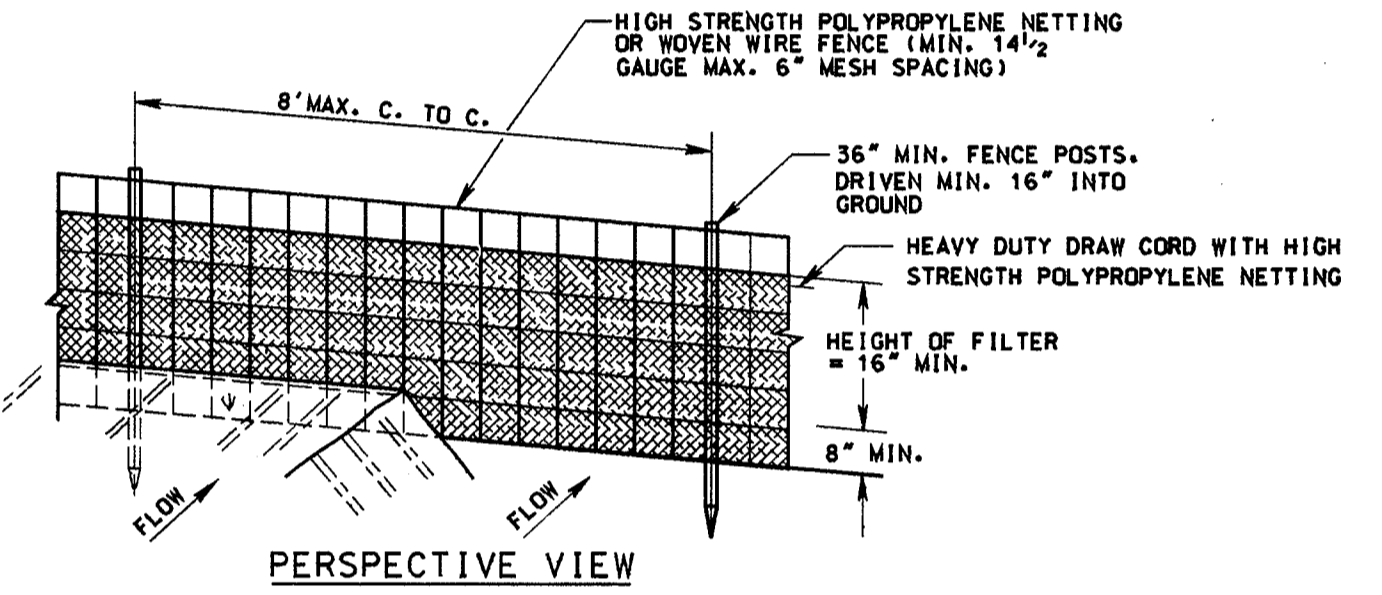


APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
 HOWARD COUNTY HEALTH DEPARTMENT

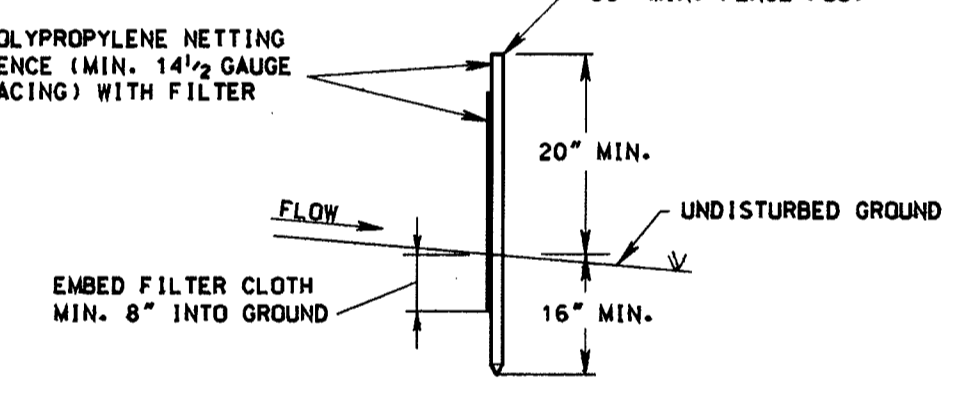
APPROVED: 11-1-91
 COUNTY HEALTH OFFICER

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

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING



PERSPECTIVE VIEW



SECTION

CONSTRUCTION SPECIFICATIONS

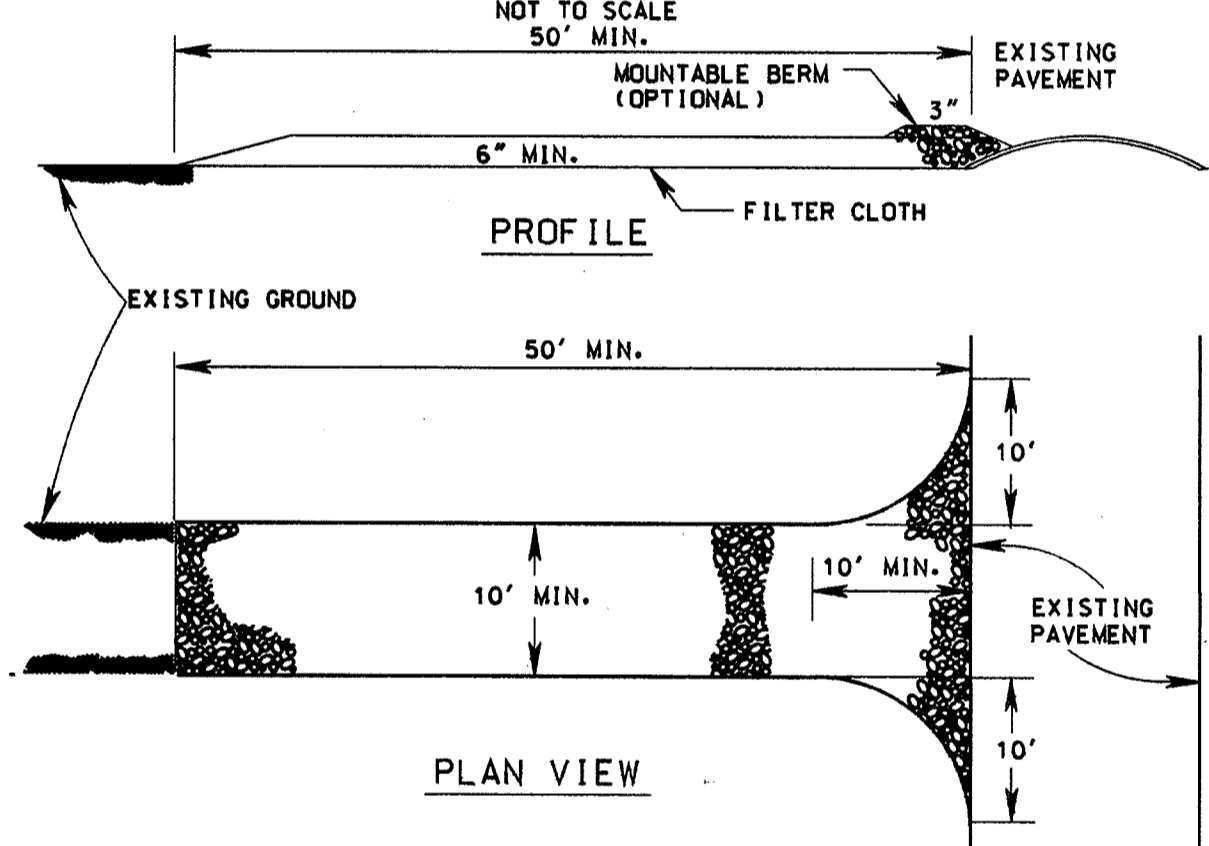
- HIGH STRENGTH POLYPROPYLENE NETTING OR WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES
- FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
- WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL OVERLAP BY SIX INCHES AND FOLDED.
- MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN BULGES DEVELOP IN THE SILT FENCE.

STANDARD SYMBOL



SILT FENCE

STABILIZED CONSTRUCTION ENTRANCE



CONSTRUCTION SPECIFICATIONS

- 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 PERMITTED.
- MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT 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 RIGHT-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON A AREA STABILIZED WITH STONE AND WHICH DRAINS INTO A APPROVED SEDIMENT TRAPPING DEVICE.
- PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

REVIEWED FOR HOWARD S.C.D. AND MEETS THE TECHNICAL REQUIREMENTS.

10/23/91
 SOIL CONSERVATION SERVICE

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

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 ENVIRONMENT 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."

10/24/91
 JOSEPH H. NECKER, JR.

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."

9/12/91
 THOMAS J. SHAFER P.E. NO. 8457

2	10/12/91	Revised Title Block, Parcel A-1, Lots III, II3
1	5/15/91	
NO.	DATE	DESCRIPTION OF REVISION

COLUMBIA
 SITE DEVELOPMENT PLAN
 SECTION 6 AREA 3&5
 PARCEL A-1, LOTS III, II3
 HICKORY RIDGE VILLAGE CENTER

SEDIMENT CONTROL
 DETAILS
 SHEET 15 OF 18

ELECTION DISTRICT NO. 5
 HOWARD COUNTY, MARYLAND
 DATE: Mar. 4, 1991

PARCEL 110 & 112
 TAX MAP NO. 35
 SCALE: AS SHOWN

No.	Date	Description of Revision
4	8/28/97	Revised drive aisle

DAVID BARKLEY
479/726
ZONED R-20



For A only

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

Joseph P. B... 11-1-97
COUNTY HEALTH OFFICER DATE

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

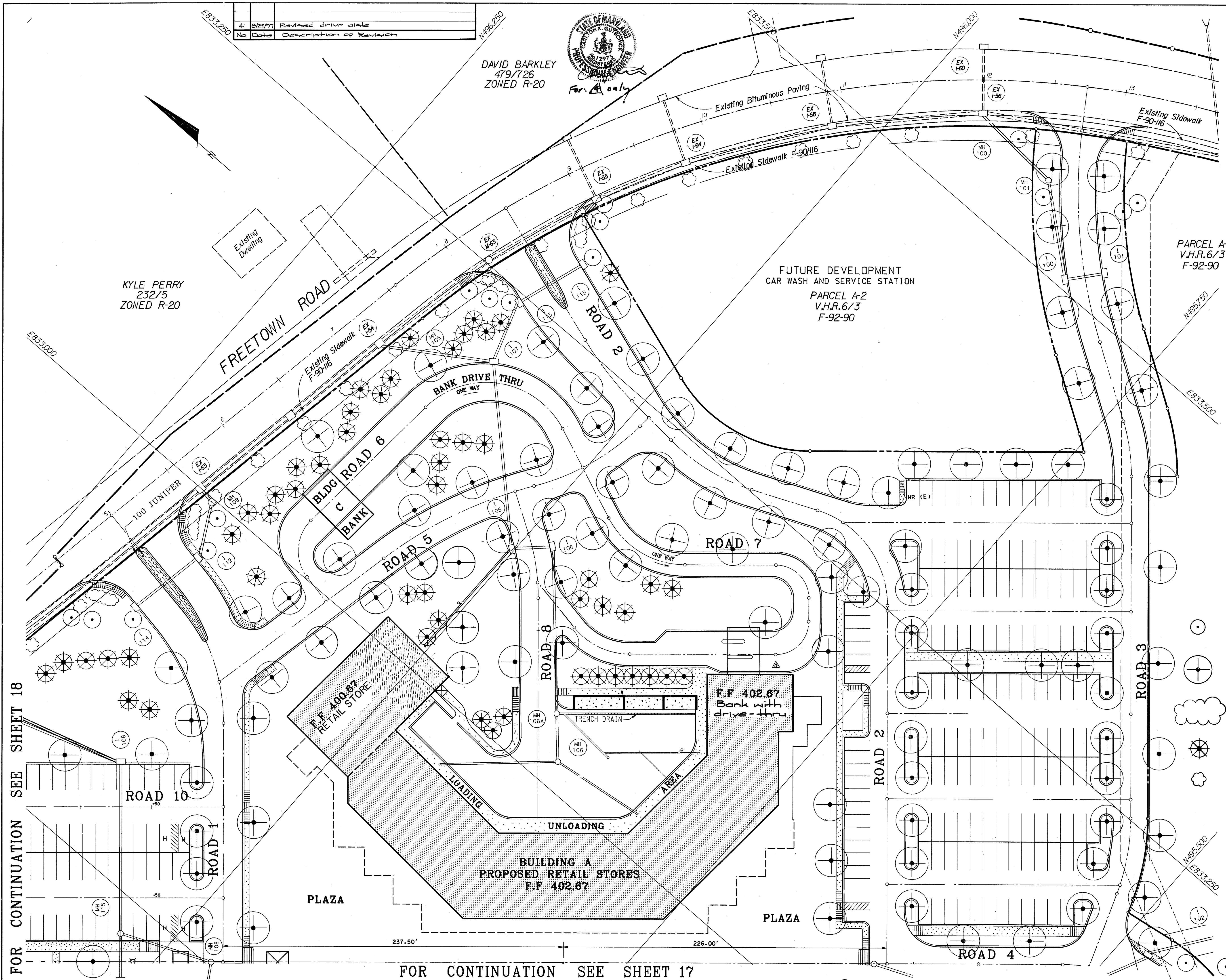
James H. ... 10/29/97
DIRECTOR DATE

... 10-28-97
CHIEF, BUREAU OF ENGINEERING DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

... 11/12/97
PLANNING DIRECTOR DATE

... 11/12/97
CHIEF, DIVISION OF COMMUNITY
PLANNING AND LAND DEVELOPMENT DATE



12-18-90
des

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



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

Thomas J. Shafer 10/18/91
THOMAS J. SHAFER P.E. NO. 8457

SUBDIVISION NAME VILLAGE OF HICKORY RIDGE		SECTION/AREA 6/385	PARCEL A-1, LOTS 111, 113
PLAT 9738-9740	BLOCK 18	ZONE NT Comm.	TAX/ZONE MAP 35
WATER CODE E 29		ELEC. DIST. 5	CENSUS TR. 6056
SEWER CODE 6580000			

PLANT LIST

- INTERMEDIATE FOCUS TREE, FLOWERING TREE - QUANTITY 23
- ☁ OVERHEAD CANOPY TREE I.E. PINOAK, MAPLE, ASH SIZE 2 1/2" - 3" CAL. 12' - 14' HT. - QUANTITY 185'
- ☁ JUNIPER - QUANTITY 250
- ⊗ EVERGREEN / CONIFER I.E. AUSTRIAN OR WHITE PINE SIZE 6' TO 8' - QUANTITY 115

3	1/8/92	ADDED RETAIL STORE; REMOVED ROAD 9 ADDED HANDICAP SPACE FOR VAN
---	--------	--

2	10/12/91	REVISED PARCELS, TITLE BLOCK AND CENSUS TR.
1	5/15/91	REVISED STORM DRAINS AND PARKING SPACES
NO.	DATE	DESCRIPTION OF REVISION

COLUMBIA
SITE DEVELOPMENT PLAN
SECTION 6 AREA 3&5
PARCEL A-1 & LOTS 111 AND 113
HICKORY RIDGE VILLAGE CENTER

LANDSCAPE PLAN

SHEET 16 OF 18

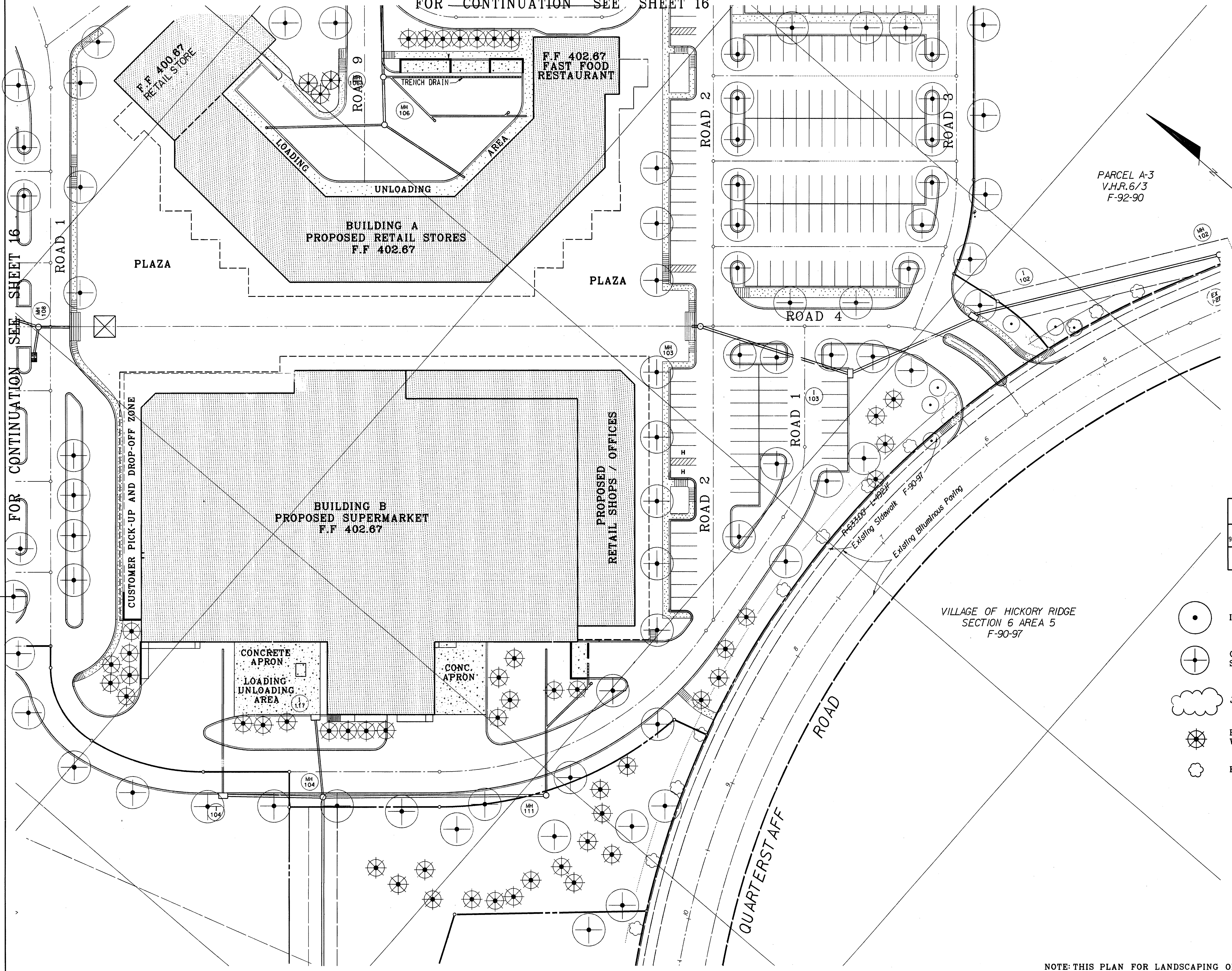
ELECTION DISTRICT NO. 5
HOWARD COUNTY, MARYLAND
DATE: Mgr. 4. 1991

PARCEL 110 & 112
TAX MAP NO. 35
SCALE: 1" = 30'

FOR CONTINUATION SEE SHEET 18

FOR CONTINUATION SEE SHEET 17

FOR CONTINUATION SEE SHEET 16



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

James G. Zyl 4-1-91
COUNTY HEALTH OFFICER DATE

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

James G. Zyl 10/2/91
DIRECTOR DATE

William E. Egan 10-28-91
CHIEF, BUREAU OF ENGINEERING DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

James G. Zyl 11/12/91
PLANNING DIRECTOR DATE

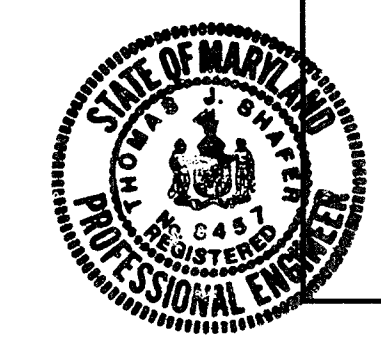
Anna M. Elmer 11/2/91
CHIEF, DIVISION OF COMMUNITY
PLANNING AND LAND DEVELOPMENT DATE

PARCEL A-3
V.H.R.6/3
F-92-90

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

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

Thomas J. Shafer 10/18/91
THOMAS J. SHAFER P.E./NO.84571



SUBDIVISION NAME VILLAGE OF HICKORY RIDGE				SECTION/AREA 6/3&5	PARCEL A-1, LOTS 111,113
PLAT 9738-9740	BLOCK 18	ZONE NT Comm.	TAX/ZONE MAP 35	ELEC. DIST. 5	CENSUS TR. 6056
WATER CODE E 29			SEWER CODE 6580000		

PLANT LIST

- INTERMEDIATE FOCUS TREE, FLOWERING TREE
 - OVERHEAD CANOPY TREE I.E. PINOAK, MAPLE, ASH
SIZE 2 1/2" - 3" CAL. 12' - 14' HT.
 - JUNIPER
 - EVERGREEN / CONIFER I.E. AUSTRIAN OR
WHITE PINE SIZE 6' TO 8'
- 4 1/8/92 Removed Fast Food, Added Retail Store
Revised Location of HR Type (B).
- EXISTING STREET TREES
- | | | |
|-----|----------|---|
| 3 | 10/12/91 | REVISED PARCELS, TITLE BLOCK AND CENSUS TR. |
| 1 | 5/15/91 | MOVED ISLAND |
| NO. | DATE | DESCRIPTION OF REVISION |

COLUMBIA
SITE DEVELOPMENT PLAN
SECTION 6 AREA 3&5
PARCEL A-1 & LOTS 111 AND 113
HICKORY RIDGE VILLAGE CENTER

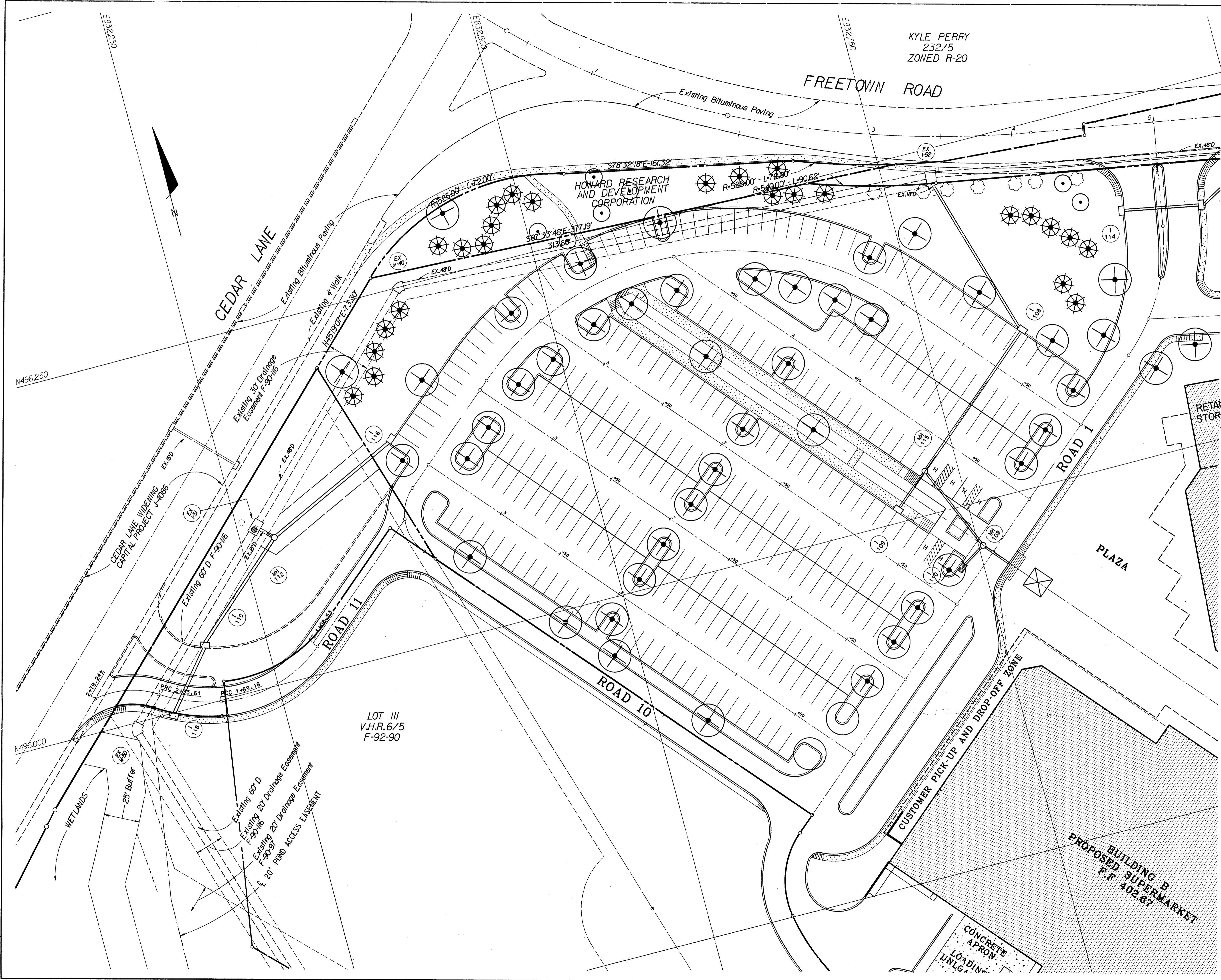
LANDSCAPE PLAN

SHEET 17 OF 18

ELECTION DISTRICT NO.5
HOWARD COUNTY, MARYLAND
DATE: Mar. 4, 1991

PARCEL 110 & 112
TAX MAP NO.35
SCALE: 1" = 30'

NOTE: THIS PLAN FOR LANDSCAPING ONLY



KYLE PERRY
2.32.15
ZONED R-20

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

James J. Perry 11-1-91
COUNTY HEALTH OFFICER DATE

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

James J. Perry 10/29/91
DIRECTOR DATE

Michael S. Kelly 10-28-91
CHIEF, BUREAU OF ENGINEERING DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

James J. Perry 11/12/91
PLANNING DIRECTOR DATE

James J. Perry 11/12/91
CHIEF, DIVISION OF COMMUNITY
PLANNING AND LAND DEVELOPMENT DATE

AP
PLAN
DATE 12-18-90
JKS

OWNER AND DEVELOPER
THE HOWARD RESEARCH AND
DEVELOPMENT CORPORATION
10275 LITTLE PATUMENT PARKWAY
COLUMBIA, MARYLAND 21043



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

Thomas J. Shafer 10/18/91
THOMAS J. SHAFER P.E. NO. 8451

SUBDIVISION NAME		SECTION/AREA	PARCEL
VILLAGE OF HICKORY RIDGE		6/3&5	A-1, LOTS 111, 113
PLAT	BLOCK	ZONE	TAX/ZONE MAP
9738-9740	18	NT Comm.	35
ELEC. DIST.		CENSUS TR.	
5		6056	
WATER CODE		SEWER CODE	
E 29		6580000	

PLANT LIST

- INTERMEDIATE FOCUS TREE, FLOWERING TREE
- OVERHEAD CANOPY TREE I.E. PINOAK, MAPLE, ASH SIZE 2 1/2" - 3" CAL. 12' - 14' HT.
- JUNIPER
- EVERGREEN / CONIFER I.E. AUSTRIAN OR WHITE PINE SIZE 6' TO 8'
- EXISTING STREET TREES

NOTE: THIS PLAN FOR LANDSCAPING ONLY

4	1/8/92	Relocated Handicap Spaces; Removed HR (2)
3	10/12/91	REVISED PARCELS, TITLE BLOCK AND CENSUS TR.
2	8/8/91	REVISED ENTRANCE ROAD AT CEDAR LANE
1	5/15/91	ADDED ENTRANCE ROAD, REVISED STORM DRAIN REVISED PARKING
NO.	DATE	DESCRIPTION OF REVISION

COLUMBIA
SITE DEVELOPMENT PLAN
SECTION 6 AREA 3&5
PARCEL A-1 & LOTS 111 AND 113
HICKORY RIDGE VILLAGE CENTER

LANDSCAPE PLAN

SHEET 18 OF 18

ELECTION DISTRICT NO. 5
HOWARD COUNTY, MARYLAND
DATE: Mar. 4, 1991

PARCEL 110 & 112
TAX MAP NO. 35
SCALE: 1" = 30'

FOR CONTINUATION SEE SHEET 16

FOR CONTINUATION SEE SHEET 17