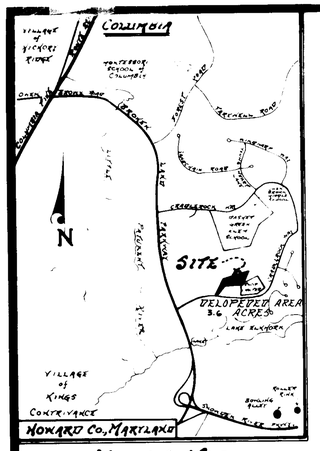

VICINITY MAP

SCALE: 1"=2000'

GENERAL NOTES

1. Utility information shown on this plan was taken from available records. The exact location of the underground utilities shall be field verified by the contractor prior to construction.
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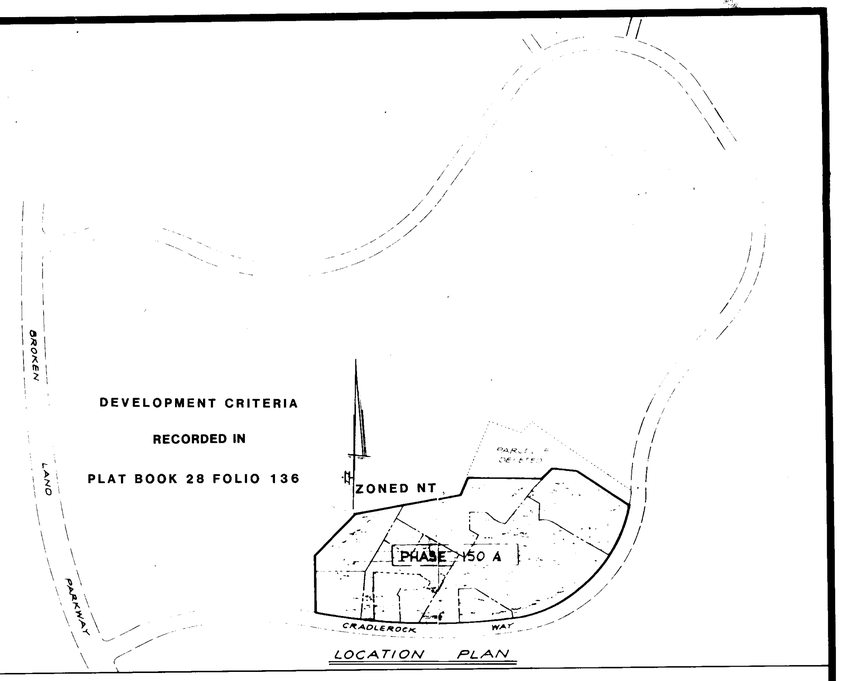


LOCATION PLAN

ADDRESS CHART	
Description	STREET ADDRESS
Developer	Giant Construction Co., Inc. P.O. Box 1804, Wash., D.C. 20013 Attn: Bob Unrath (386-0576)
Engineer	A. Morton Thomas and Assoc., Inc. 12750 Twinbrook Pkwy, Rockville, Md. 20852 Attn: Albert F. Edwards (881-2545)
Owner Lot 2A	Howard Research Development Village of Owen Brown
Owner Lot 3A	Howard Research Development Village of Owen Brown
Owner Parcel B3	GFS Realty, Inc. P.O. Box 1804, Wash., D.C. 20013
Owner Parcel C2	Marriott Corp. Marriott Dr., Wash., D.C. 20058
Owner Parcel D2	BTZ Partnership 7262 Cradlerock Way, Columbia, Md. 21045
Owner Parcel B4	Cradlerock Way NS Village of Owen Brown
Owner Parcel B1	GFS Realty, Inc. P.O. Box 1804, Wash., D.C. 20013
Owner Parcel A-2	Mobil Oil Corp. (Honeywell Center) P.O. Box 839, Suite 305 Valley Forge, Pa. 19482
Bldg. A	7290 Cradlerock Way
Bldg. B	7284 Cradlerock Way

SITE ANALYSIS:

1. Area statement shown on sheet C-1.
2. Zoning: New Town (NT Employment Center Commercial) "FDP-150-A.1".
3. Parking requirements (see tabulation sheet C-2).
4. Proposed Shop "A" single story retail sales 6,680 sq.ft.
5. Proposed Shop "B" single story retail sales 6,485 sq.ft.
6. Public water and sewer to be utilized.
7. Parking required = 67 spaces.
8. Parking provided = 200 spaces.
9. Building coverage = 13,165 sq.ft. = 16%.
10. Open space (green area) to remain 11%.

AREA STATEMENT		
Parcel	Total Area	Area Developed
B-3	1.9 acres	1.9 acres
Lot 2-A	0.6 acres	0.5 acres
Lot 3-A	3.5 acres	1.0 acres
B-1	8.1 acres	0.2 acres

PLAN INDEX

PLAN	SHEET No.
Cover Sheet	C-S
Boundary and Topographic Survey	[illegible]
Site Plan	[illegible]
Storm Drain Profiles and Details	[illegible]
Water and Sewer Profiles, Details and Notes	[illegible]
General Details	[illegible]
Soil Erosion and Sediment Control	C-6
Sediment Control Notes and Details	C-7
Parking Lot Planting Plan	C-8

2-5-86

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

COUNTY HEALTH OFFICER — DATE 8-8-86

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING

DIRECTOR — DATE

CHIEF DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION — DATE 8-12-86

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

DIRECTOR — DATE

CHIEF BUREAU OF ENGINEERING — DATE 8-6-86

Developer: GFS Realty, Inc.
P.O. Box 1804
Washington, D. C. 20013
Attn: Mr. Bob Unrath
386-0576

SDP - 86 - 72C

SUBDIVISION NAME			SECT./AREA	LOT/PARCEL #
Village of Owen Brown			1/3	B-3 Lots 2A, 3A
PLAT # OR L/F	BLOCK #	ZONE	TAX/ZONE MAP	ELEC. DIST.	CENSUS TR.
3718	21	NT comm.	36	6th	6061.03
WATER CODE		SEWER CODE		
E 11		530800		

RETAIL BLDG. ADDITS. (2) TO SDP-78-45c

3/17/86

5-2-86	REVISED SITE ANALYSIS NOTE # 2.		
11-1-85	REVISED SITE ANALYSIS, ADDED SHEET & SIGNATURE BLOCK		
DATE	REVISION	BY	APP'R.

A. MORTON THOMAS and ASSOCIATES, INC.
CIVIL ENGINEERS - LAND PLANNERS - LAND SURVEYORS.
12750 TWINBROOK PARKWAY - ROCKVILLE, MARYLAND 20852 - (301) 881-2545

PROJECT ENGINEER ALBERT F. EDWARDS

DES. | DRN. | CHK AFE

COVER SHEET — SITE INFORMATION SHEET

FOR DEVELOPMENT OF PARCEL B-3 AND PARTS OF LOTS 2-A, 3-A AND PARCEL B-1
2.9 ACRES — PLAT 3718

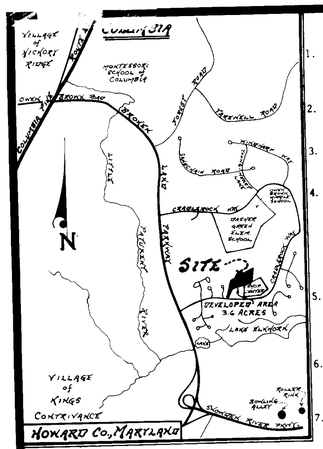
VILLAGE CENTER

VILLAGE OF OWEN BROWN, SECTION 1, AREA 3

CRADLEROCK WAY COLUMBIA 21045 6TH ELECTION DISTRICT HOWARD CO., MD.

SCALE	CONTOUR INTERVAL	A.M.T. FILE No.
—	—	J-712
DATE	TAX MAP No.	SHEET
AUG. 85	36	C S 1 OF 9

SDP-86-72c



VICINITY MAP

SCALE: 1" = 2000'

GENERAL NOTES

1. Utility information shown on this plan was taken from available records. The exact location of the underground utilities shall be field verified by the contractor prior to construction.
2. The contractor shall hand dig test pits at all utility crossings to determine the exact location and depth well in advance of construction.
3. For marking locations of existing utilities, notify "Miss Utility" at (301) 559-0100, 48 hours prior to any excavation or construction.
4. Omissions and/or additions of utilities found during construction is the sole responsibility of any contractor engaged in excavation at this site. Giant Food, Inc. and A. Morton Thomas and Associates, Inc. shall be notified immediately of any and all utility information, omissions and additions found by said contractor (s).
5. We are not responsible for any construction on site, persons, trucks, trailors, merchandise and/or equipment used in adjacent to this site due to the proximity of live underground utilities.
6. Property recorded in Land Records of Howard County as Plat No. 4002, easements, etc. recorded also as Plat Book 27 Folio 80, Plat 3718 & 3719 and Plat No. 4282.
7. Development criteria recorded: Plat Book # 3054-A-7782 to 3054-A-7785
8. No gas service exists.
9. Electric service by Baltimore Gas and Electric Company.
10. Public water and sewer: Howard County.
11. Storm Drain property owners.
12. Zoned: NT
13. No C & P Facilities per letter dated 7/18/83
14. All roadways and parking to be privately owned and maintained.
15. Installation of all traffic control devices shall be in accordance with the 1971 Edition of The Manual of Uniform Traffic Control Devices.
16. All materials and construction to be in accordance with the Howard County Road Construction Code and Specifications.
17. Water and sewer house connection shall be installed in accordance with Contract # as approved by the Howard County Bureau of Engineering.
18. Any damage to County owned rights of way to be corrected at the developer's expense.
19. All coordinates are based on Maryland State Grid System. Elevations on U.S. Coast and Geodetic Survey Mean Sea Level datum.
20. Roof storm water carried in downspouts will be handled by one of the following methods.
    (a.) Downspout to splash block and discharge to ground having good percolation.
    (b.) Downspout piped to curb.
    (c.) Downspout connected to storm drain.

LEGEND:

EXISTING CONTOUR:	326
PROPOSED CONTOUR:	326
SPOT ELEV. EXISTING:	326 ×
SPOT ELEV. PROPOSED:	326 ×
EXISTING STORM DRAIN:	
EXISTING SAN. SEWER:	
EXISTING WATER MAIN:	
EXISTING CURB LINE:	
EXISTING PARKING SPACES:	(17)
PROP. PARKING SPACES:	(17)
PROP. CURB LINE	
℄	FLOW LINE
T.O.C.	TOP OF CURB

BENCHMARKS

ESTABLISHED FROM BENCHMARK # 006 "X" ON CURB RIGHT OF CENTERLINE STATION 45+00 CRADLEROCK WAY.

ELEV. = 315.22

BENCH MARK

IRON PIPE SET

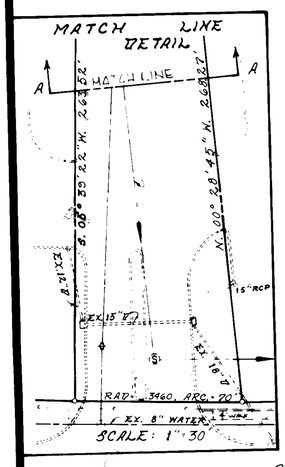
ELEV. = 333.16

INTER FAITH CENTER

NOTE:

10' WIDE GAS & ELECTRIC EASEMENT ALONG INTERIOR OF PARCEL B-1 LIBER 4444 60 FOLIO 230

SCALE 1" = 30'



263.5' FROM I.P.F. 902 TO CRADLEROCK WAY

MATCH LINE — SEE DETAIL LEFT

PLAN APPROVAL STAMP

APPROVED: PLANNING BOARD OF HOWARD COUNTY
DATE 2-5-86

Developer: GFS Realty, Inc.
P.O. Box 1804
Washington, D. C. 20013
Attn: Mr. Bob Unrath
386-0576

MARCH 18, 1986

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

COUNTY HEALTH OFFICER — DATE 8-8-86

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING

DIRECTOR — DATE 8-12-86

CHIEF DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION — DATE

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

DIRECTOR — DATE

CHIEF BUREAU OF ENGINEERING — DATE 8-8-86

A. MORTON THOMAS and ASSOCIATES, INC.
CIVIL ENGINEERS - LAND PLANNERS - LAND SURVEYORS
12750 TWINBROOK PARKWAY - ROCKVILLE, MARYLAND 20852 - (301) 881-2545
PROJECT ENGINEER ALBERT F. EDWARDS

DES.	DRN. J.J.S.	CHK. AFE

DATE	REVISION	BY
11/1/85	REVISED SITE PLAN PER REVIEW	

BOUNDARY & TOPOGRAPHIC SURVEY

FOR DEVELOPMENT OF PARCEL B-3 AND PARTS OF LOTS 2-A, 3-A AND PARCEL B-1 PLAT 3718
2.9 ACRES

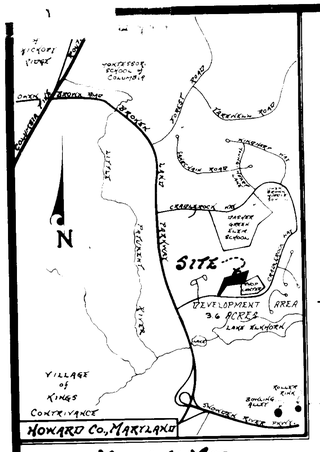
VILLAGE CENTER

VILLAGE OF OWEN BROWN, SECTION 1, AREA 3

CRADLEROCK WAY COLUMBIA 21045 6TH ELECTION DISTRICT HOWARD CO., MD

SCALE	CONTOUR INTERVAL	A.M.T. JOB No.
1" = 30'	1 Ft.	J-712
DATE	TAX MAP No.	SHEET
AUG. 85	36	C-1 2 OF 9

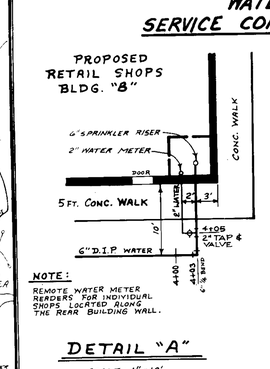
SDP-86-72



VICINITY MAP

SCALE: 1"=2000'

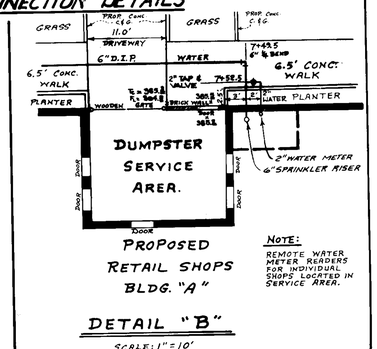
WATER LINE SERVICE CONNECTION DETAILS



NOTE:
REMOTE WATER METER READERS FOR INDIVIDUAL SHOPS LOCATED ALONG THE REAR BUILDING WALL.

DETAIL "A"

SCALE: 1"=10'



NOTE:
REMOTE WATER METER READERS FOR INDIVIDUAL SHOPS LOCATED IN SERVICE AREA.

DETAIL "B"

SCALE: 1"=10'

NOTE:
PARKING STALLS DIMENSIONED 9'x20' (TYP) EXCEPT WHERE A 2.0' OVERHANG PERMITTED BY CODE THEN PARKING STALLS ARE 9'x18'.

PARKING TABULATION

REQUIRED: 1 SPACE/200 @ 13,165 #: 67 SPACES

PROVIDED: 195 STANDARD SPACES
5 HANDICAPPED SPACES

TOTAL = 200 SPACES
SURPLUS = 133 SPACES
ON-SITE = 62 SPACES

NOTE:
10' WIDE GAS & ELECTRIC EASEMENT ALONG INTERIOR OF PARCEL B-1
LIBER 4414 #68 FOLIO 232

BENCHMARKS
ESTABLISHED FROM BENCHMARK #906
X ON CURB RIGHT OF CENTERLINE STATION #5+00 CRADLEROCK WAY.
ELEV. = 315.42

BENCH MARK
IRON PIPE SET
ELEV. = 333.16

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

COUNTY HEALTH OFFICER — DATE 8-8-6

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING

DIRECTOR — DATE 8-12-86

CHIEF DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION — DATE 8-12-86

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

DIRECTOR — DATE

CHIEF BUREAU OF ENGINEERING — DATE 8-6-86

GENERAL NOTES

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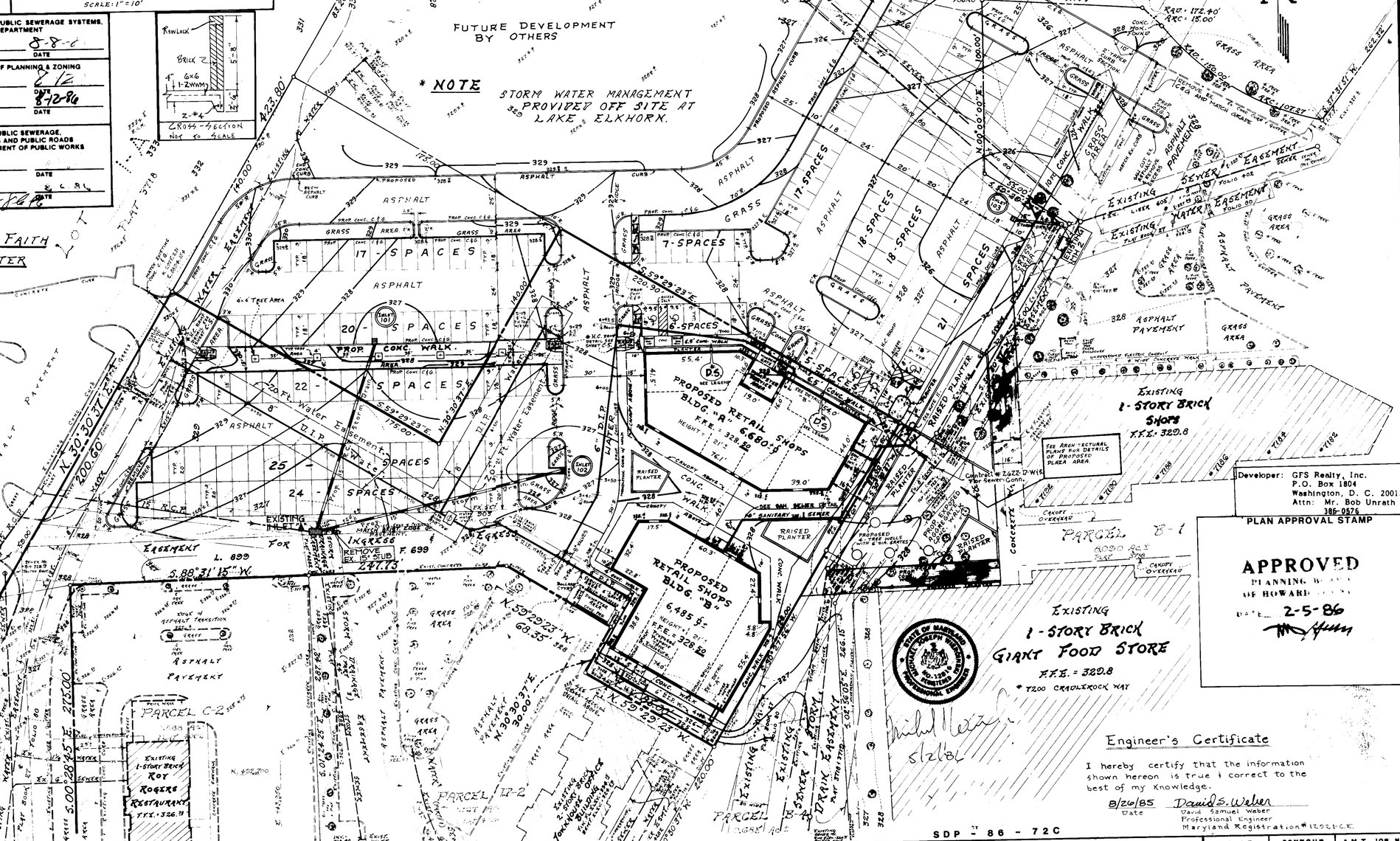
5. We are not responsible for any construction on site, persons, trucks, trailors, merchandise and/or equipment used or adjacent to this site due to the proximity of live underground utilities.
6. Property recorded in Land Records of Howard Co. as Plat No. 4002, easements, etc. recorded also as Plat Book 27 Folio 80, Plat 3718 and 3719 and Plan No. 4282.
7. Development criteria recorded: Plat Book 28 at Folio 136 thru 139.
8. Zone: NT (ALL PARCELS SHOWN ON THIS PLAN)
9. Any damage to County owned rights-of-way to be corrected at the contractor's expense.
10. All coordinates are based on Maryland State Grid System. Elevations on U.S. Coast and Geodetic Survey Mean Sea Level Datum of 1929.
11. Prior to the start of construction, the contractor shall dig test pits to expose existing sewer and water lines and call the engineer @881-2545 to verify elevations taken from Howard County Dept. of Public Works Plans. The contractor shall give the engineer 24 hours notice prior to beginning this item.
12. See Sheet C-4 for all sanitary sewer detail plan and profile. See also Sheet C-4 for waterline details and profiles.
13. "The contractor or developer shall contact the Construction Inspection Division of Howard County Health Department at 792-2630." 24 hours in advance of commencement of work.

LEGEND:

EXISTING CONTOUR:	326
PROPOSED CONTOUR:	326
SPOT ELEV. EXISTING:	328x
SPOT ELEV. PROPOSED:	28x
EXISTING STORM DRAIN:	
EXISTING SAN. SEWER:	
EXISTING WATER MAIN:	W
EXISTING CURB LINE:	
EXISTING PARKING SPACES:	(17)
PROP. PARKING SPACES:	(17)
PROP. CURB LINE:	
E:	FLOW LINE
T.O.C.:	TOP OF CURB
PROP. CONC. CURB & GUTTER OR ASPHALT CURB WHERE NOTED	
PROP. CONC. CURB & REVERSE GUTTER	
SHADED AREA, PROP. CONC.	
EXISTING ASPHALT	
DOWN SPOUT PIPED UNDER THE SIDEWALK TO DISCHARGE @ FACE OF CURB	D.S.



Developer: GFS Realty, Inc.
P.O. Box 1804
Washington, D. C. 20013
Attn: Mr. Bob Unrath
386-0576

PLAN APPROVAL STAMP

APPROVED
PLANNING BOARD
OF HOWARD COUNTY
DATE 2-5-86

Engineer's Certificate

I hereby certify that the information shown hereon is true & correct to the best of my knowledge.

8/20/85 — David S. Weber
Date — David Samuel Weber, Professional Engineer, Maryland Registration #12021-C.E.

5-27-87	Addition of Proposed Propane Tank Enclosure & Detail 1	JKS
Aug. 1986	Addition of 20-Ft Water Easement.	JKS.
4-25-86	Revised easement to accomodate vault changes to 6' F.I.H. from vault to building.	B.K.K.
2-27-86	REVISED POSITION OF PROP. FIRE HYDRANT.	J.J.G.
2-25-86	ADDITIONAL HANDICAP RAMPS DRAWN ON PLAN; PLANTER ADDED	J.J.G.
2-10-86	REVISED PROP. CONC. WALKS, GRASS AREAS, CONC. HANDICAP RAMP	J.J.G.
11-14-85	UNDATED New Water Line Layout. Station 0+00-8+16 & 8+00-9+31	J.J.G.
10-30-85	REVISED HANDICAP RAMPS AND ADDED HANDICAP ACCESS ISLE.	J.J.G.
DATE	REVISION	BY

A. MORTON THOMAS and ASSOCIATES, INC.
CIVIL ENGINEERS - LAND PLANNERS - LAND SURVEYORS
12750 TWINBROOK PARKWAY - ROCKVILLE, MARYLAND 20852 - (301) 881-2545
PROJECT ENGINEER ALBERT F. EDWARDS
DES. — DRN. J.J.G. — CHK.

SDP - 86 - 72C

SITE PLAN

FOR DEVELOPMENT OF PARCEL B-3 AND PARTS OF LOTS 2-A, 3-A AND PARCEL B-1
2.9 ACRES — PLAT 3718

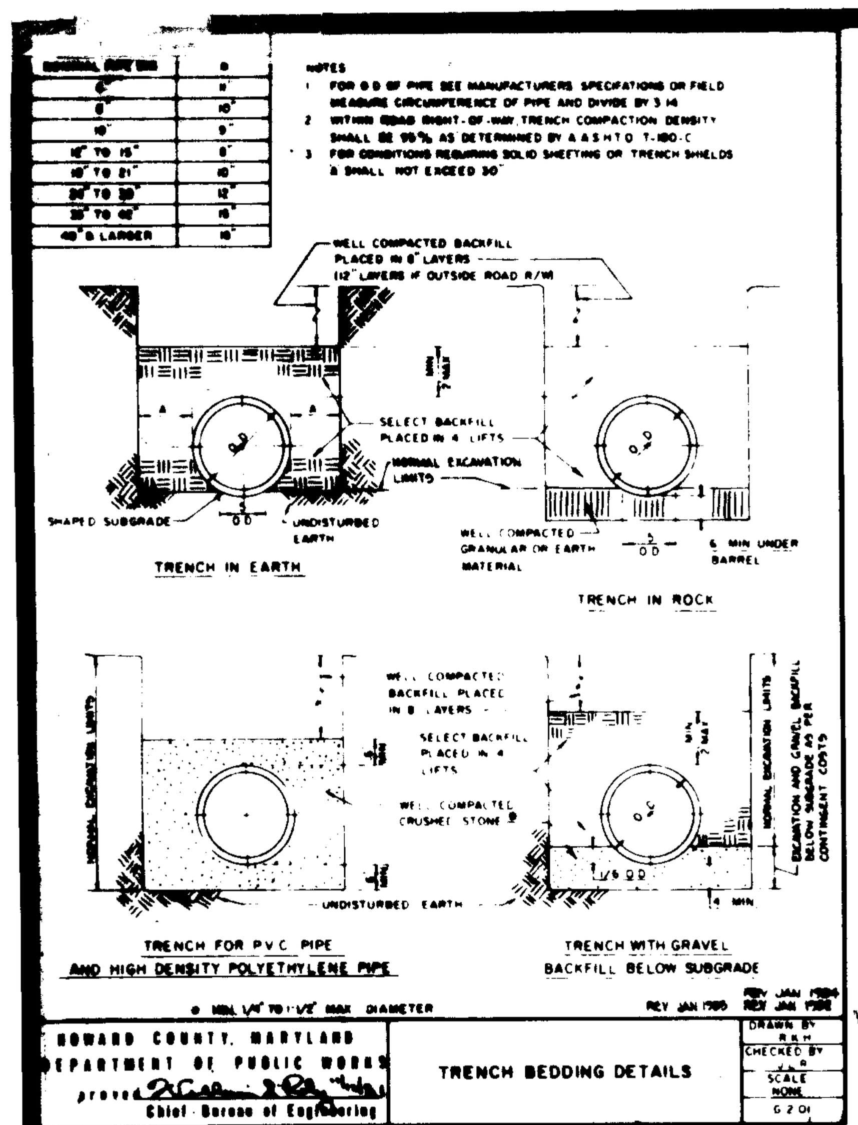
VILLAGE CENTER

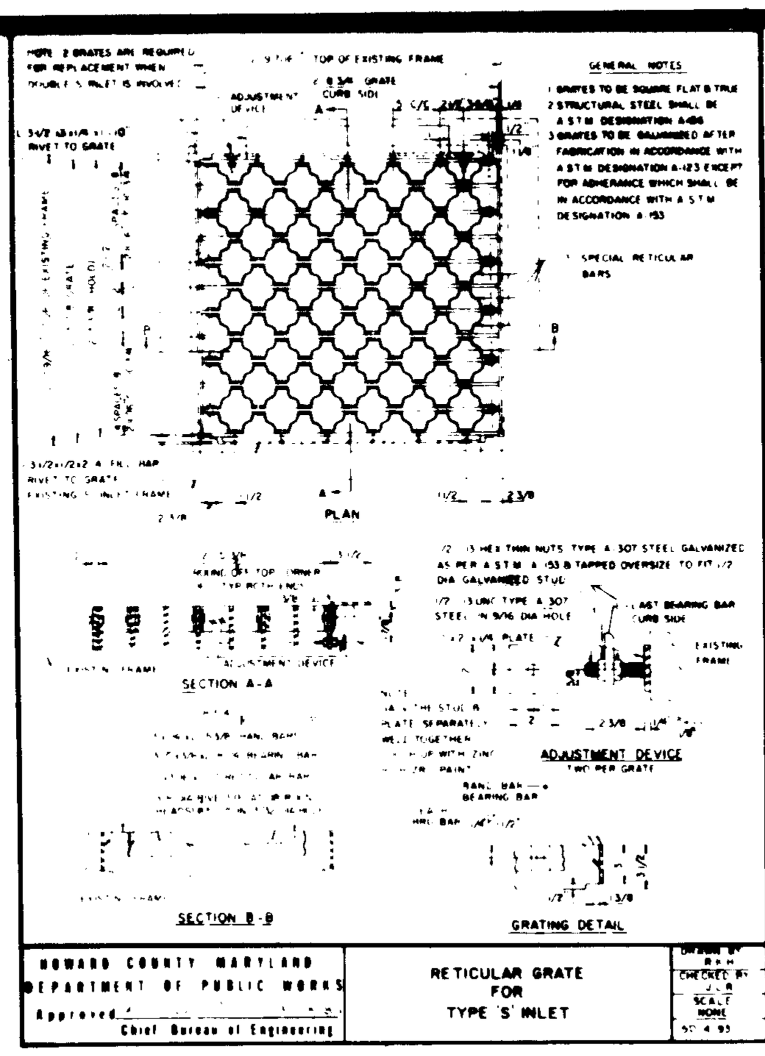
VILLAGE OF OWEN BROWN, SECTION 1, AREA 3

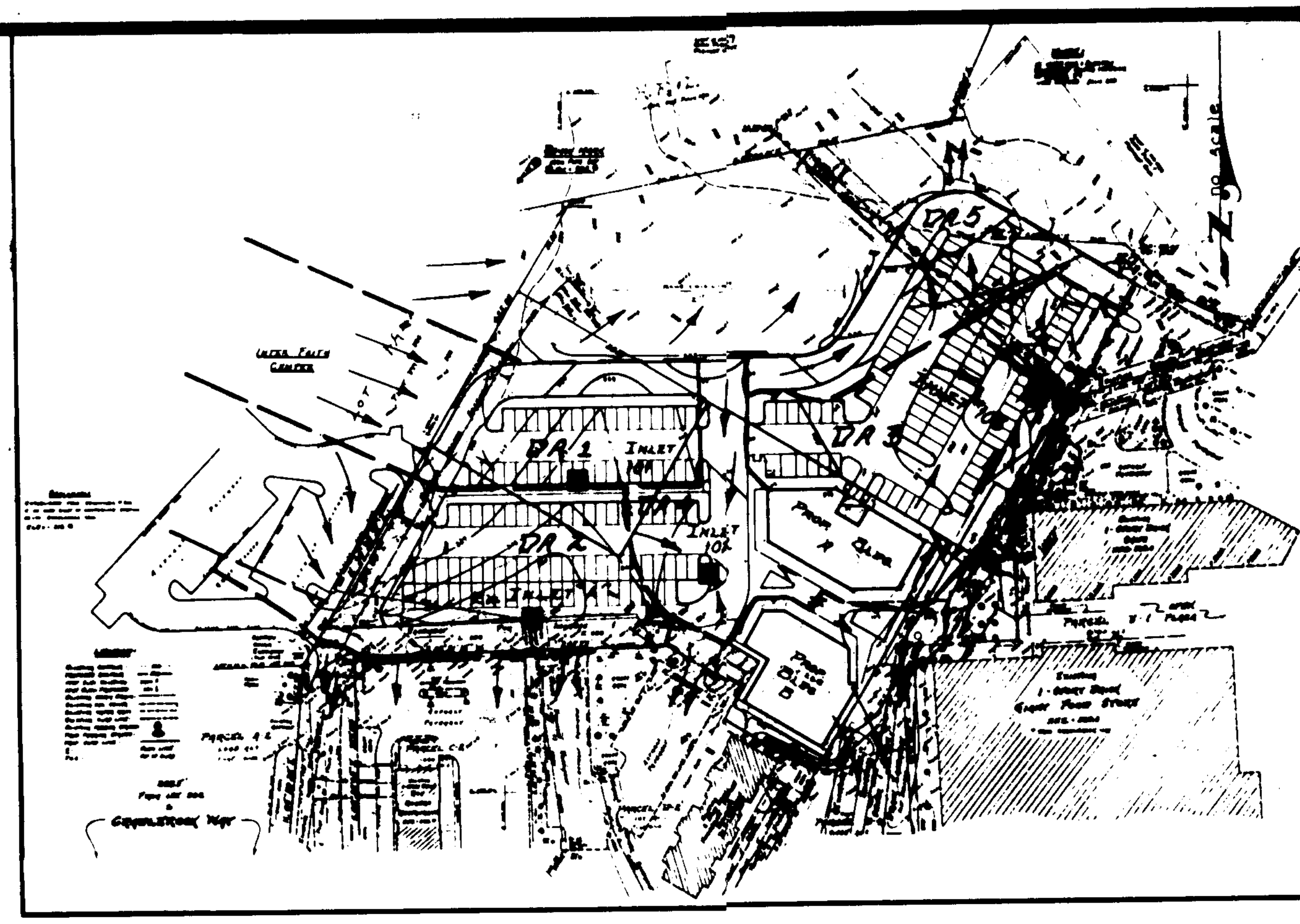
CRADLEROCK WAY COLUMBIA 21045 — 6TH ELECTION DISTRICT HOWARD CO., MD.

SCALE	CONTOUR INTERVAL	A.M.T. JOB No.
1" = 30'	1 Ft.	J-712
DATE	TAX MAP No.	SHEET
AUG. 85	36	C 2 3 OF 9

SDP-86-72c







DRAINAGE AREA COMPUTATIONS

Drainage Area #1

Flow to inlet 101
Area = 1.3 acres
Approximately 34% grass
Composite C Factor = 0.52
Q_{10} = 4.9 CFS

Drainage Area #2

Flow to existing inlet "A"
Area = 0.95 acres
Approx. 10% grass
C Factor = 0.95
Q_{10} = 6.5 CFS

Drainage Area #3

Flow to inlet 103
Area = 1.03 acres
Approx. 15% grass
Composite C Factor = 0.84
Q_{10} = 6.2 CFS

Drainage Area #4

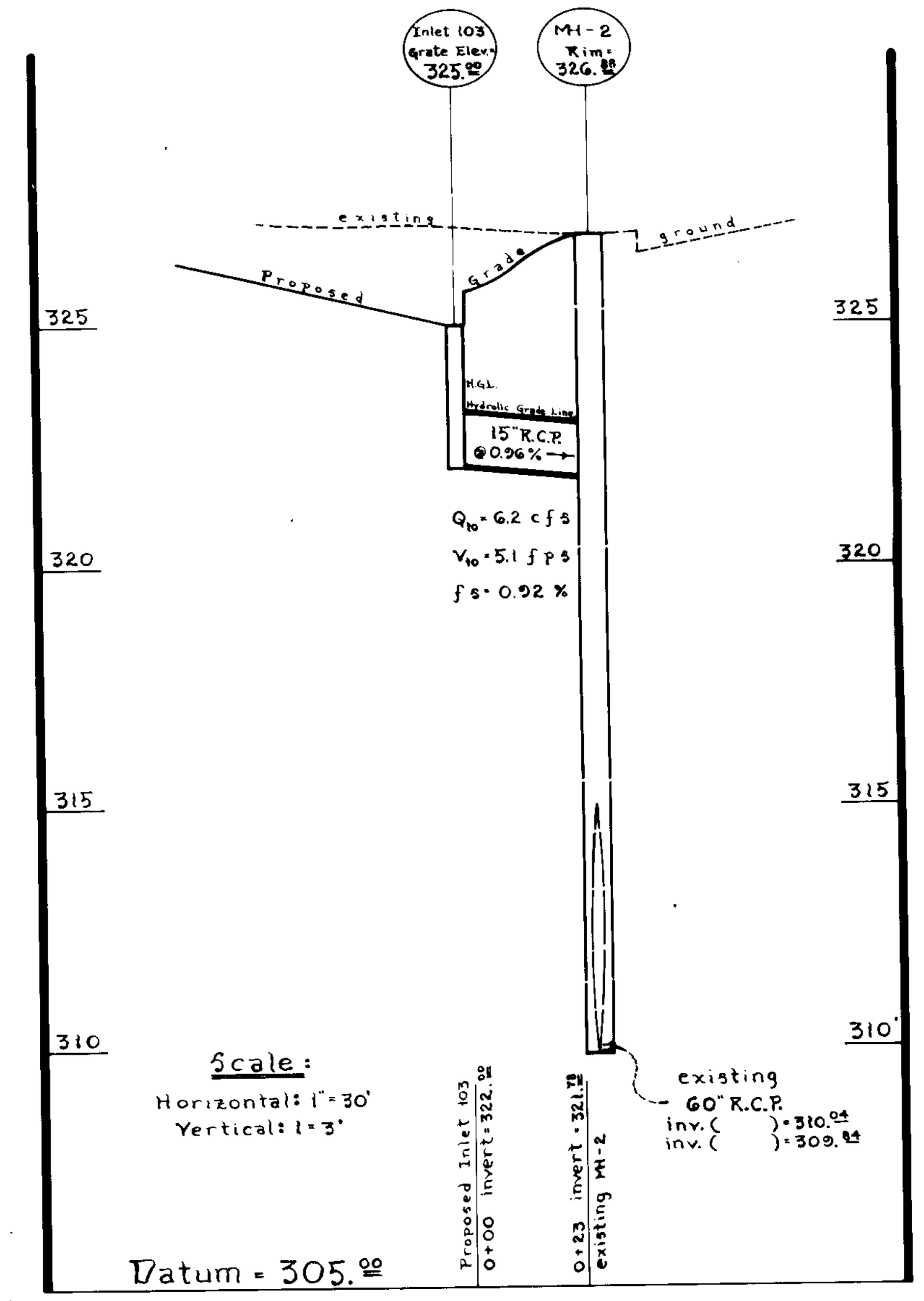
Flow to inlet 102
Area = 0.43 acres
Approx. 9% grass
C Factor = 0.95
Q_{10} = 2.9 CFS

Drainage Area #5

Flow off-site through curb cut
Area = 0.41 acres
Approx. 9% grass
C Factor = 0.95
Q_{10} = 2.8 CFS

NOTE: All areas T=5 minutes
I = 7.2

Drainage Area Map



STORM DRAIN

STRUCTURE SCHEDULE

Nº	TYPE	Grate Elevation at Flow Line	REMARKS	
101	S. Comb. Inlet	326.50	Howard Co. DPW	SD-4.32
102	S. Comb. Inlet	326.20	Howard Co. DPW	SD-4.32
103	S. Comb. Inlet	325.00	Howard Co. DPW	SD-4.32

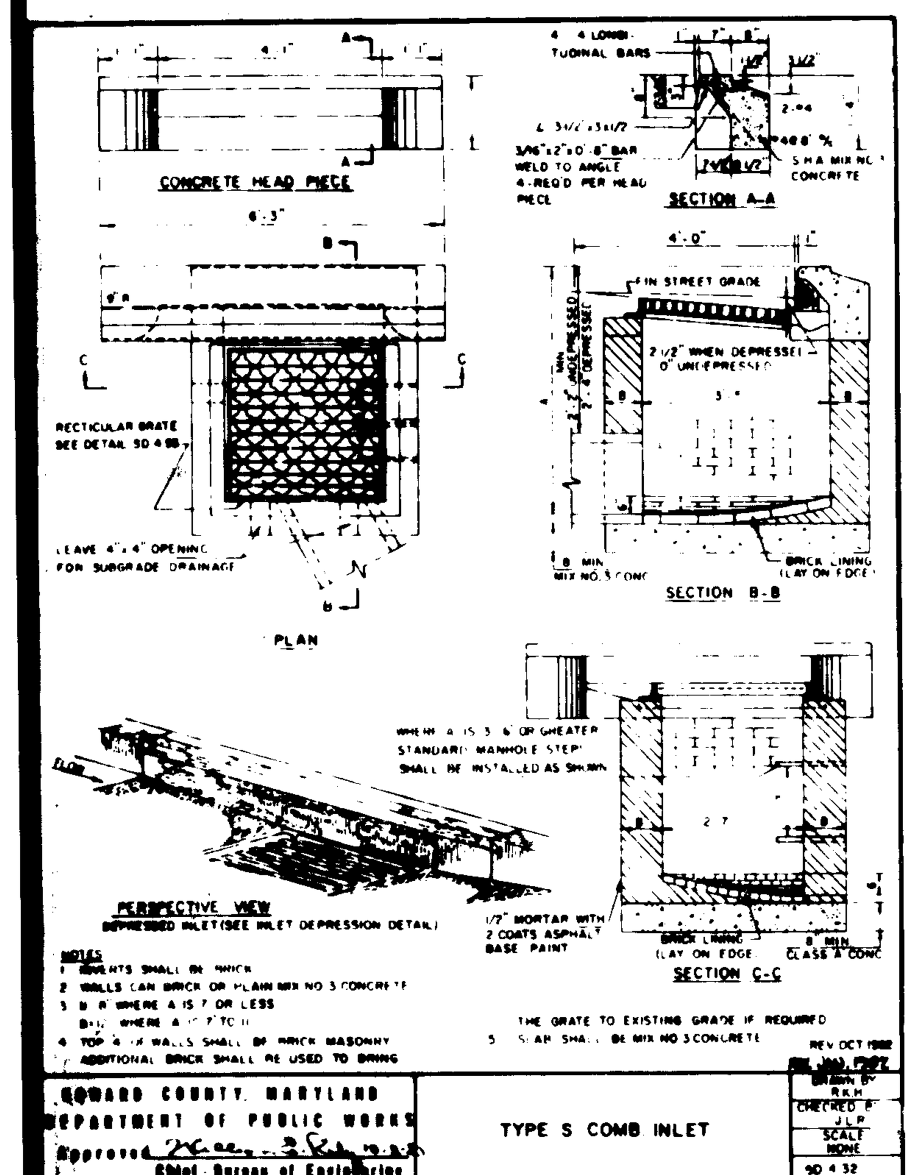
INLET COMPUTATIONS.

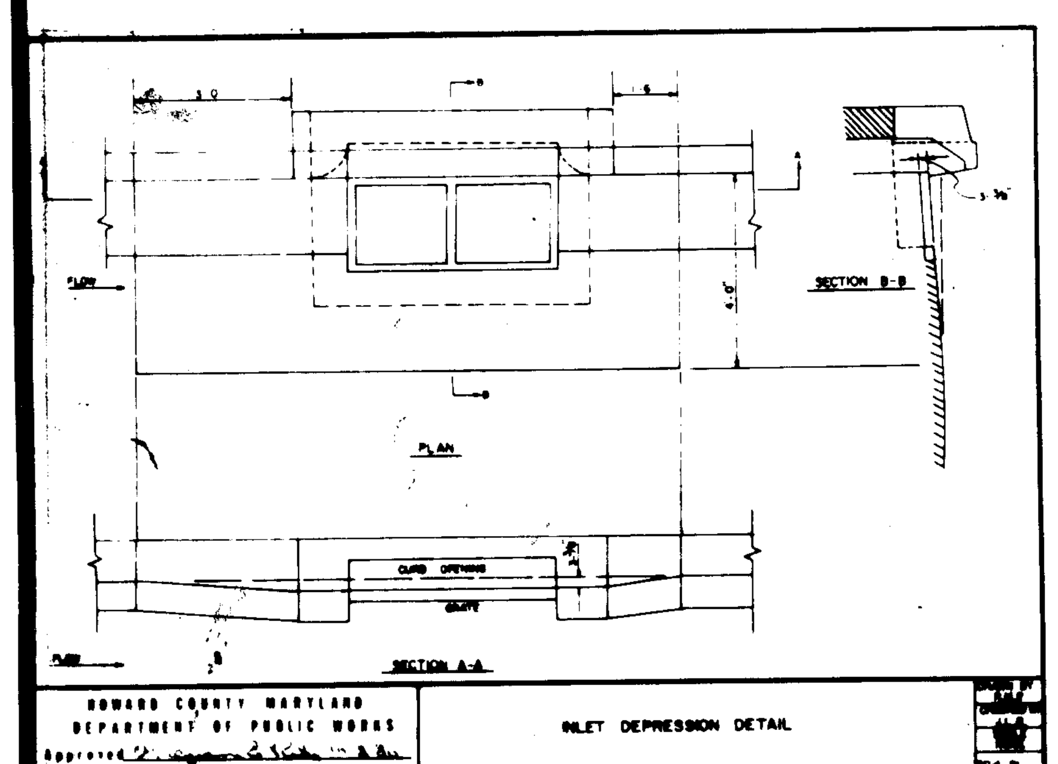
INLET No.	INLET TYPE.	SIZE OF OPENING.	SURFACE FLOW TO INLET.	POND DEPTH.
101	S. Comb. Inlet	8.4 sq. ft.	4.9 CFS	0.3 ft.
102	S. Comb. Inlet	8.4 sq. ft.	2.9 CFS	0.2 ft.
103	S. Comb. Inlet	8.4 sq. ft.	6.2 CFS	0.4 ft.

STORM DRAIN

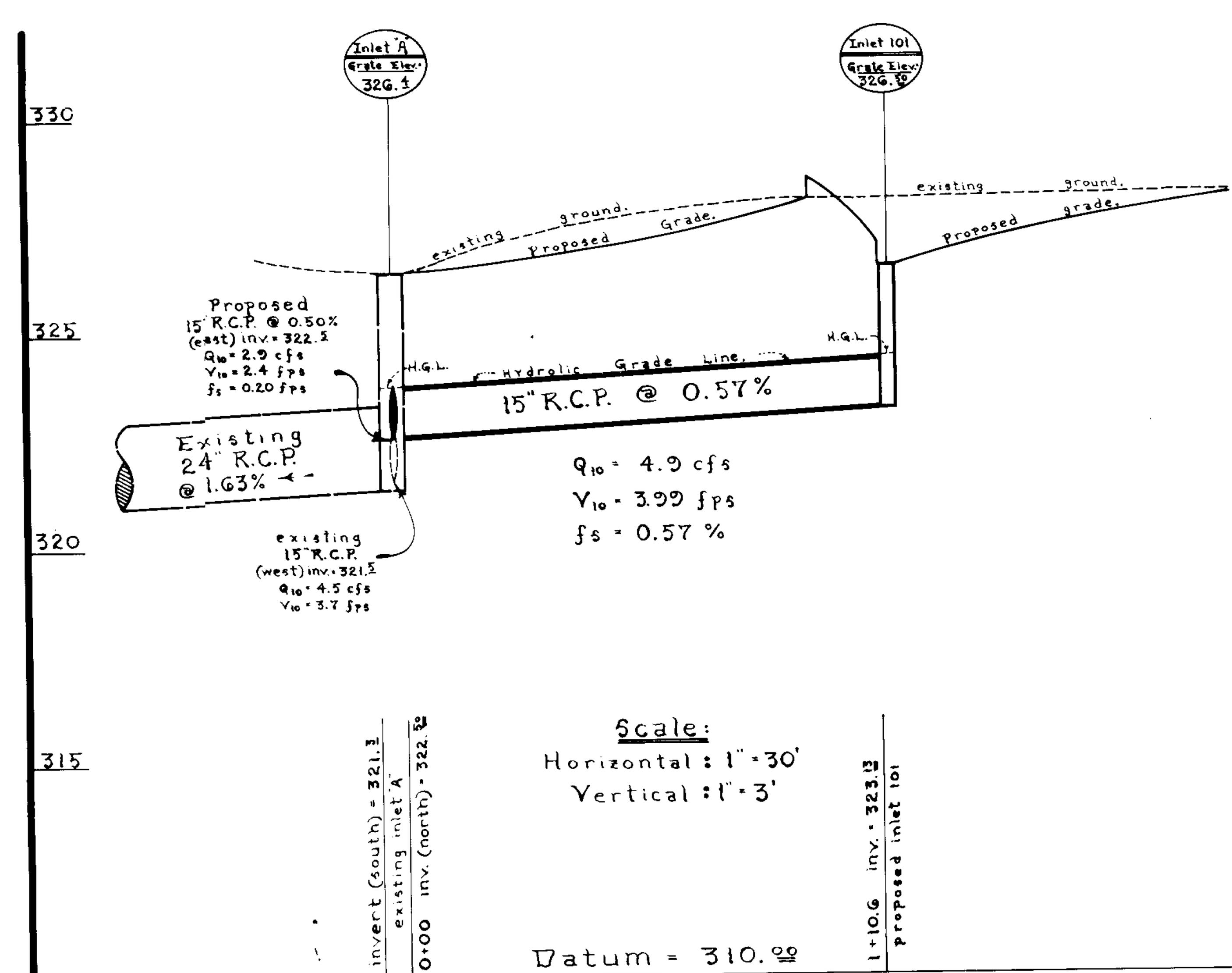
PIPE SCHEDULE

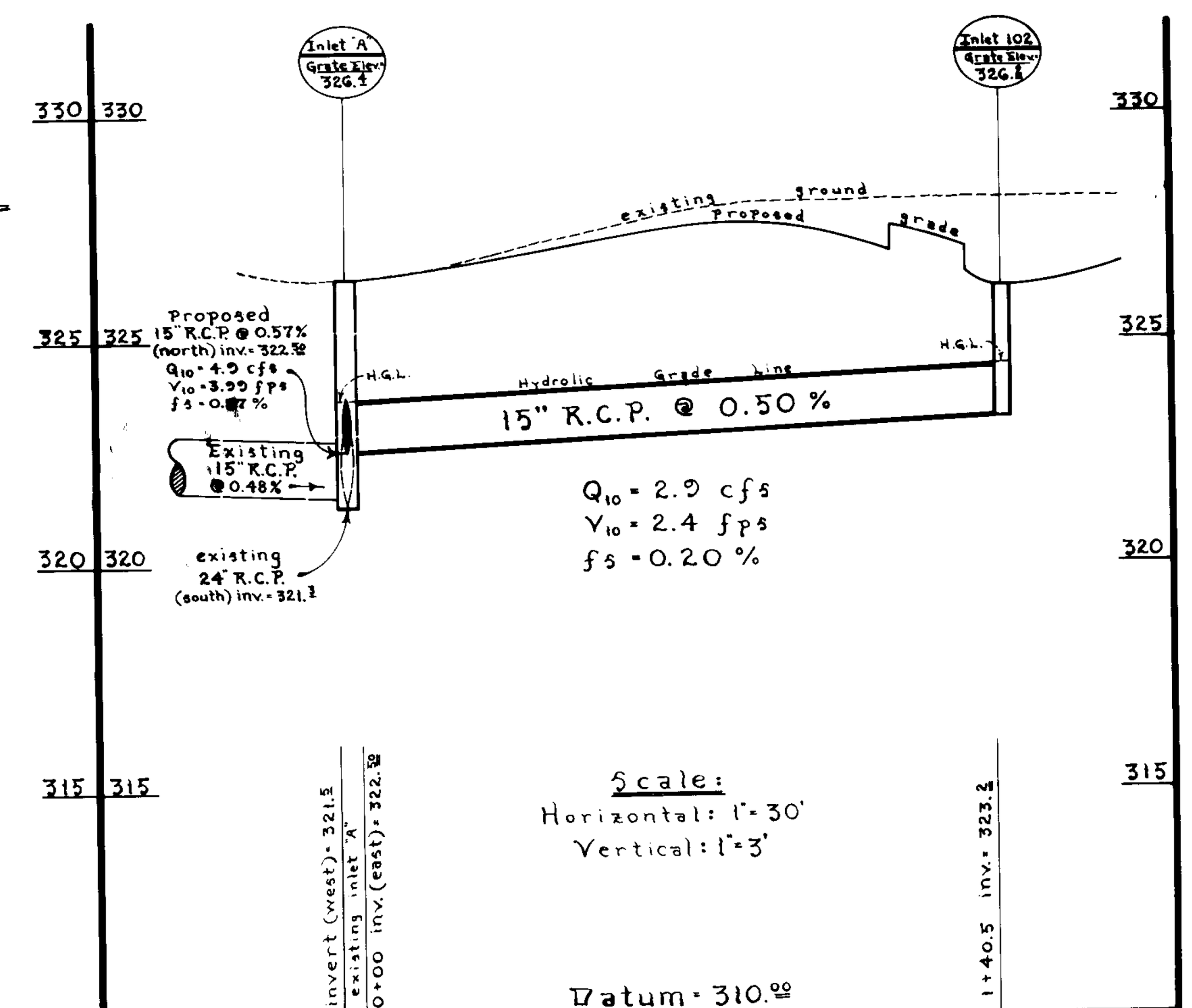
SIZE	TYPE	LENGTH
15"	Class IV RCP	275 ft.





Note: "The contractor or developer shall contact the Construction Inspection Division, 24 hours in advance of commencement of work, at 792-2630."





APPR... 2-5-86

APPROVED For public Water, Public Sewerage and Storm Drainage Systems and Roads
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR — DATE
CHIEF, BUREAU OF ENGINEERING — DATE ... 86

APPROVED For public Water and Public Sewerage Systems
HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER — 8-8-86 DATE

APPROVED Howard County Office of Planning and Zoning
PLANNING DIRECTOR — DATE
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION — 8-12-86 DATE

STATE OF MARYLAND — DAVID SAMUEL W... — REG. #12821 — PROFESSIONAL ENGINEER — 7/19/85

Developer: GFS Realty, Inc.
P.O. Box 1804
Washington, D. C. 20013
Attn: Mr. Bob Unrath

A. MORTON THOMAS and ASSOCIATES, INC.
CIVIL ENGINEERS - LAND PLANNERS - LAND SURVEYORS.
12750 TWINBROOK PARKWAY - ROCKVILLE, MARYLAND 20852 - (301) 881-2545
PROJECT ENGINEER ALBERT F. EDWARDS

DES. AFE | DRN. J.J.S. | CHK. AFE

DATE	REVISION	BY	APP'R.
Dec. 1985	Addition of Hydrolic Grade Line to Profiles.	J.J.S.	

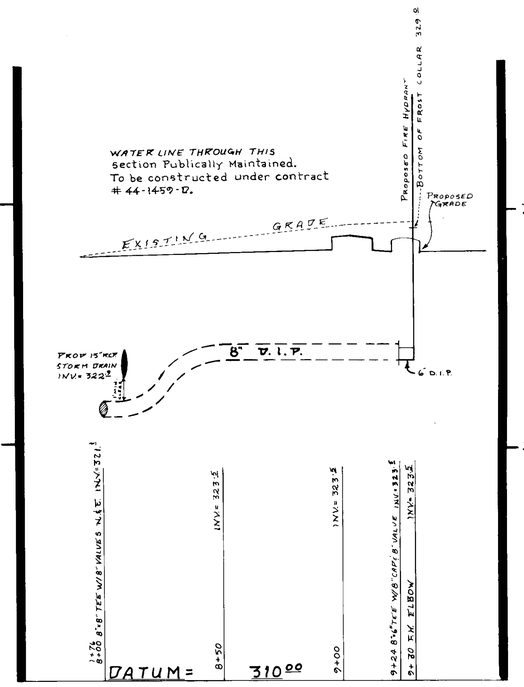
Storm Drain Profiles & Details
FOR DEVELOPMENT OF PARCEL B-3 AND PARTS OF LOTS 2-A, 3-A AND PARCEL B-... PLAT 3718
2.9 ACRES
VILLAGE CENTER
VILLAGE OF OWEN BROWN, SECTION 1, AREA 3
...RADLEROCK WAY COLUMBIA 21045 — 6TH ELECTION DISTRICT HOWARD CO., MD

SCALE	CONTOUR INTERVAL	A.M.T. FILE No.
as shown	—	J-85-712
DATE	TAX MAP No.	SHEET
July, 1985	36	C-3 4 OF 9

SDP-86-72...

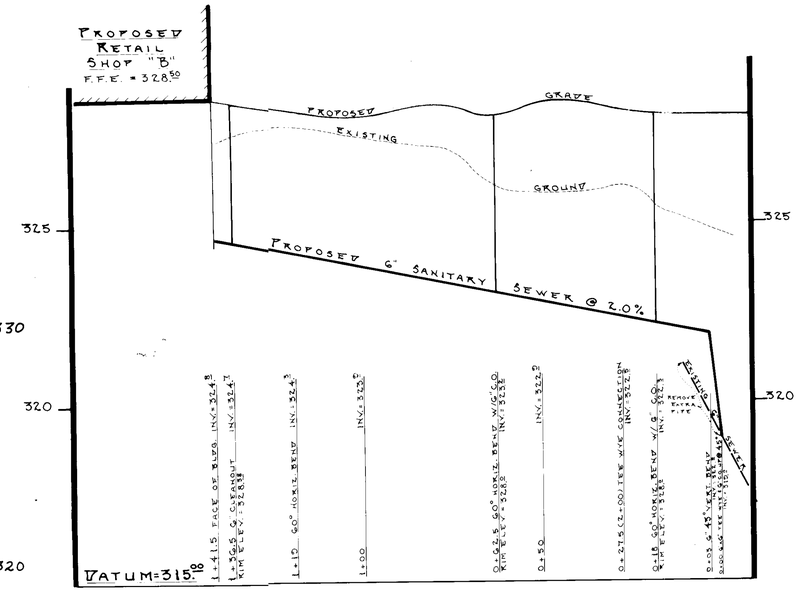
NOTE:

1. First item of construction shall be to uncover existing 8' water main and contact engineer so that location and elevation can be verified and any necessary revisions can be made to plan and profile.
2. Profile subject to change pending test pit results.
3. Proposed elevation above waterline must be brought to grade before waterline is installed.
4. Contractor shall replace all curb, paving and sidewalk damaged during water main installation and restore disturbed area to pre-construction conditions.
5. Utility information shown on this plan was taken from available records. The exact location of the underground utilities shall be field verified by the contractor prior to construction.
6. The contractor shall hand dig test pits at all utility crossings to determine the exact location and depth well in advance of construction.
7. For marking locations of existing utilities, notify "Miss Utility" at (301) 559-0100, 48 hours prior to any excavation or construction.
8. Omissions and/or additions of utilities found during construction is the sole responsibility of any contractor engaged in excavation at this site. Giant Food, Inc. and A. Morton Thomas and Associates, Inc. shall be notified immediately of any and all utility information omissions and additions found by said contractor(s).
9. We are not responsible for any construction, persons, trucks, trailors, merchandise and/or equipment used on or adjacent to this site due to the proximity of live underground utilities.
10. All valves shall be strapped to trees in accordance with standard details. Refer to sheet C-5 for details.
11. Top of all water mains to have a minimum 3½' of cover.
12. Block all fittings with concrete. See standards bound in specifications. Refer to sheet C-5 for details.
13. Bury line elevations on fire hydrants shall be set to the elevations shown on the drawings. All fire hydrants shall be strapped and buttressed with concrete in accordance with standard details. Soil around the fire hydrant to be compacted in accordance with Sections 1003 and 1008 of the Standard Specifications.



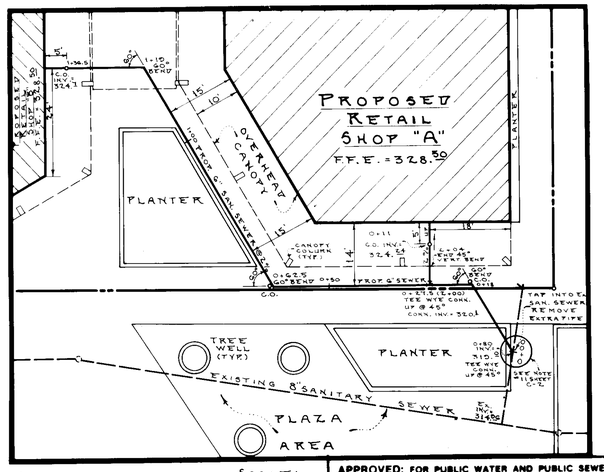
WATER MAIN PROFILE

SCALES:
HORIZONTAL: 1"=30'
VERTICAL: 1"=3'



SANITARY SEWER PROFILE

SCALES:
HORIZONTAL: 1in.=20ft.
VERTICAL: 1in.=2ft.



SCALE: 1in. = 16ft.

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER — DATE 8-8-86

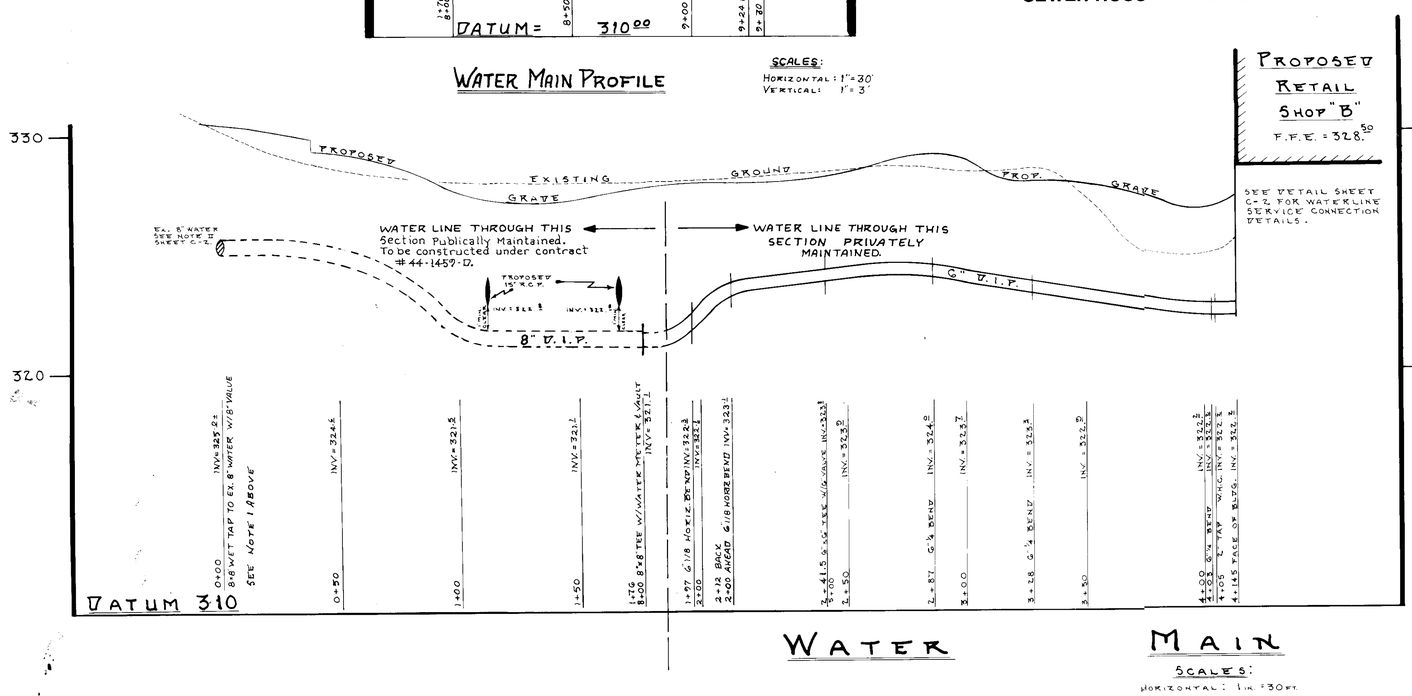
APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
DIRECTOR — DATE 8-12-86
CHIEF DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR — DATE
CHIEF BUREAU OF ENGINEERING — DATE

APPROVED
PLANNING BOARD
OF HOWARD
DATE 2-5-86

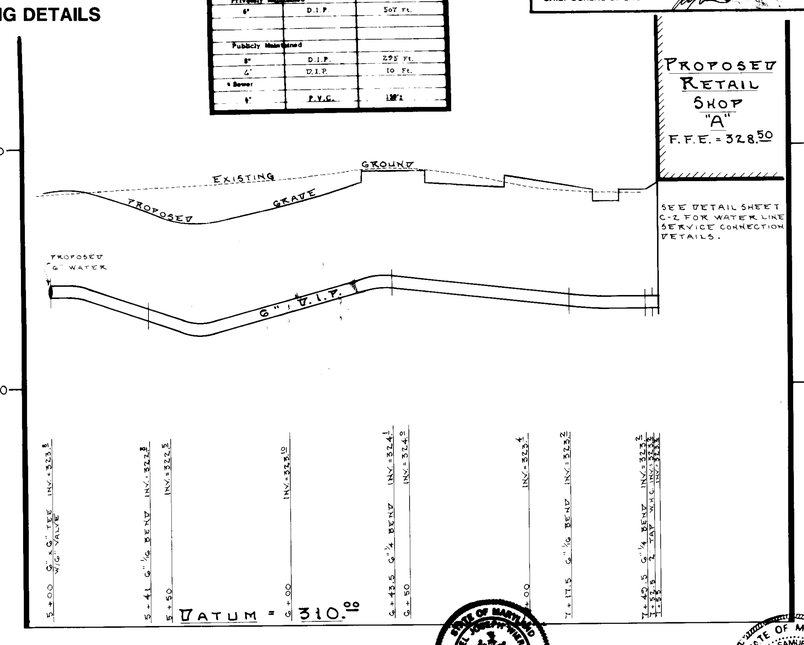
Water & Sewer Pipe Schedule		
SIZE	TYPE	LENGTH
Privately Maintained		
8"	D.I.P.	507 FT.
Publicly Maintained		
8"	D.I.P.	275 FT.
6"	D.I.P.	10 FT.
4 Sewer		
4"	P.V.C.	138 FT.

NOTE: SEE SHEET C-4 FOR TRENCH BEDDING
SEWER HOUSE CONNECTION DETAILS & BLOCKING DETAILS



WATER MAIN PROFILES

SCALES:
HORIZONTAL: 1in.=30ft.
VERTICAL: 1in.=3ft.



A. MORTON THOMAS and ASSOCIATES, INC.
CIVIL ENGINEERS - LAND PLANNERS - LAND SURVEYORS.
12750 TWINBROOK PARKWAY - ROCKVILLE, MARYLAND 20852 - (301) 881-2545
PROJECT ENGINEER ALBERT F. EDWARDS

DES. RDE DRN. W.S.J. CHK. RF

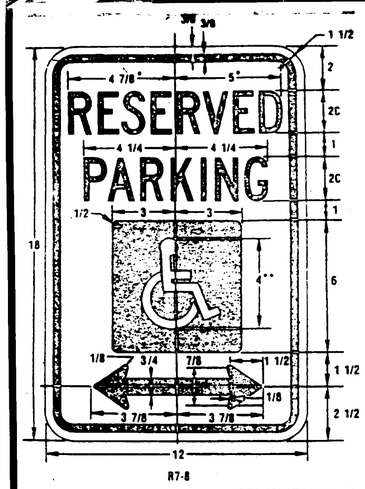
DATE	REVISION	BY	APP'R.
Aug 1984	Addition of note to water line. Being maintained Publically.	NS JJ	
May 1, 84	Revised Water & Sewer Pipe Schedule.		
April 27, 1986	Revised pipe at 1+76 to have 8"x8" tee w/water meter & vault, reduced 8" pipe to 6" pipe from vault to bldg.	B.K.K.	AJB
NOV 11, 85	CHANGED PORTION OF WL. TO 8" ADDED PROFILE ADDED Notes	B.K.K.	AJB

Developer: GFS Realty, Inc.
P.O. Box 1804
Washington, D. C. 20013
Attn: Mr. Bob Unrath
386-0576

WATER AND SEWER PROFILES NOTES AND DETAILS
FOR DEVELOPMENT OF PARCEL B-3 AND PARTS OF LOTS 2-A, 3-A AND PARCEL B-1
2.9 ACRES — VILLAGE CENTER — PLAT 3718
VILLAGE OF OWEN BROWN, SECTION 1, AREA 3
CRADLEROCK WAY COLUMBIA 21045 — 6TH ELECTION DISTRICT HOWARD CO., MD.

SCALE	CONTOUR INTERVAL	A.M.T. FILE No.
AS SHOWN	—	J-712
DATE	TAX MAP No.	SHEET
AUGUST, 1985	36	C4 5 OF 9

SDP-86-72c



R7-8

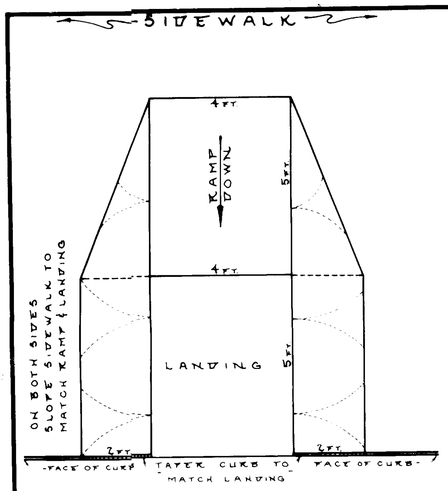
*REDUCE SPACING 50%
**SEE PAGE 186d FOR SYMBOL DESIGN

COLORS

LEGEND AND BORDER—GREEN
WHITE SYMBOL ON BLUE BACKGROUND
BACKGROUND—WHITE

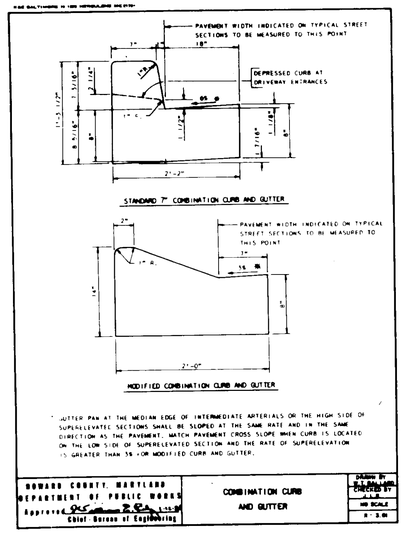
Sign to utilize an aluminum blank 6" x 12" x 0.080 inch thick with two (2) single post mounting holes.

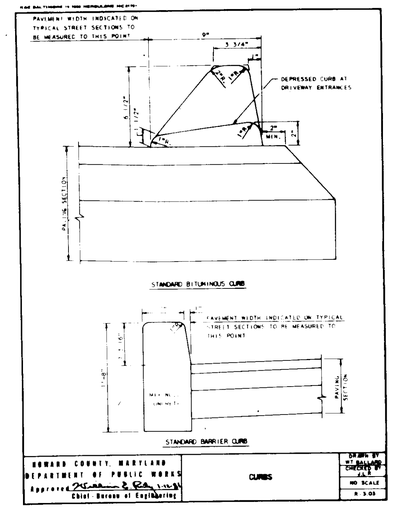
The text and border shall be standard green to match that on R7-8 and the background shall be reflective white. Text shall be in 3" characters. Above sign shall be mounted directly below the standard R7-8 Reserved Parking for Handicapped sign. Its bottom edge shall be no less than 7 feet above ground. If the sign is placed against a building, structure, or other location where vehicle or pedestrian traffic is not obstructed the bottom edge of sign shall be at least 6 feet but not more than 10 feet above ground. Because this is an addition to existing sign installations, some adjustment in height will be necessary.

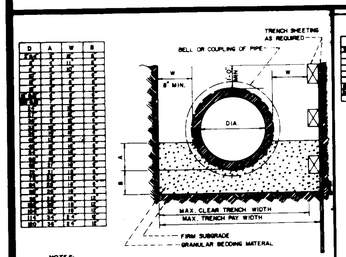


TYPICAL HANDICAP RAMP DETAIL

SCALE: 1 IN = 2 FT.







NOTES:

THIS DETAIL APPLIES TO ALL PIPE EXCEPT DUCTILE IRON PIPE 24" DIAMETER & SMALLER. SEE DETAIL M/8.1 FOR BEDDING OF 24" DIAMETER & SMALLER D.I.P.

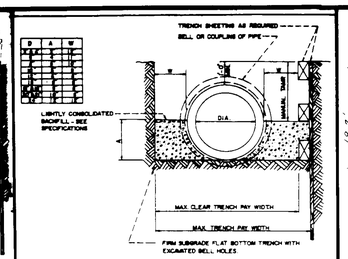
WHERE SPECIFICALLY REQUIRED, f'c=2000 psi @ 28 DAYS CONCRETE AND SADDLE BLOCKS SHALL BE USED IN LIEU OF THE GRAVEL CRADLE.

ALL BEDDING MATERIAL SHALL BE IN ACCORDANCE WITH THE W.S.S.C. SPECIFICATIONS.

MAXIMUM CLEAR TRENCH WIDTH SHALL BE 2W PLUS THE OUTSIDE DIAMETER OF THE PIPE.

ELLIPTICAL PIPE SHALL BE BEDDED IN SAND. SEE CONTRACT DRAWINGS FOR AMOUNT OF BEDDING REQUIRED.

WASHINGTON SUBURBAN Sanitary Commission — APPROVED — BEDDING AND TRENCH WIDTHS FOR WATER, SANITARY AND STORM DRAIN PIPE — REVISIONS — M 8.0

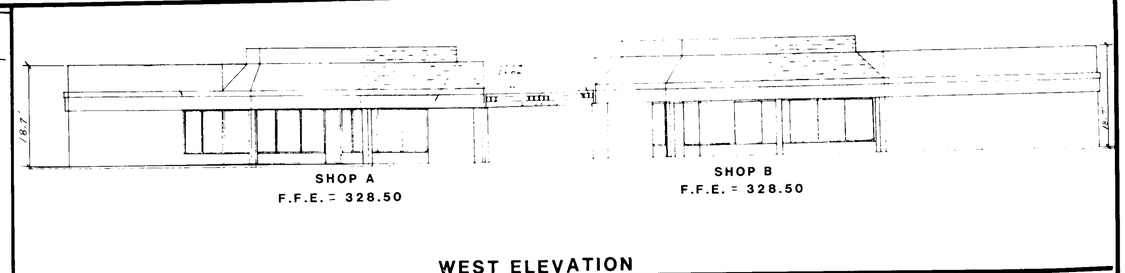


NOTES:

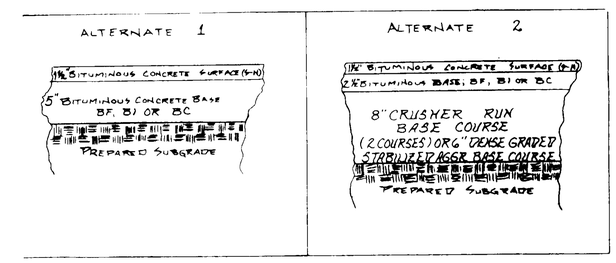
1.) SEE DETAIL M/8.0 FOR GRANULAR BEDDING REQUIREMENTS FOR DUCTILE IRON PIPE GREATER THAN 24 INCHES IN DIAMETER.

2.) MAXIMUM CLEAR TRENCH WIDTH SHALL BE 2W PLUS THE OUTSIDE DIAMETER OF THE PIPE.

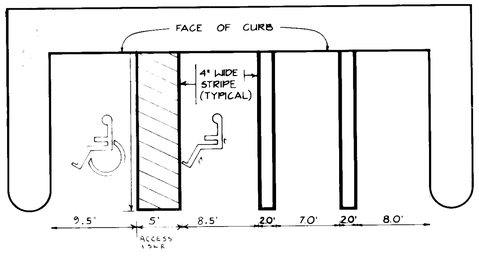
WASHINGTON SUBURBAN Sanitary Commission — APPROVED — STANDARD DETAIL BEDDING FOR DUCTILE IRON PIPE THRU 24" IN DIAMETER — REVISIONS — M 8.1



WEST ELEVATION

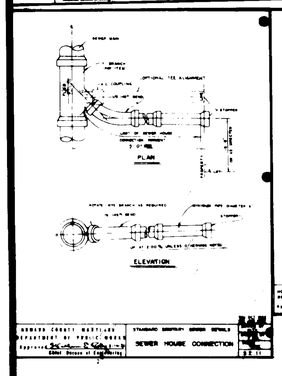


PAVING SECTIONS

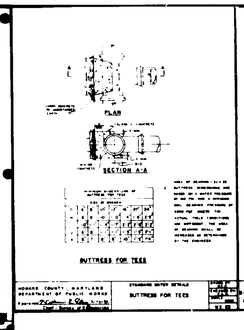


PARKING SPACE STRIPING DETAIL

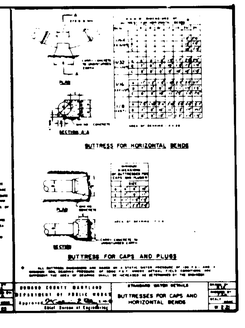
NOTE: SEE THE SITE PLAN FOR ALL PARKING SPACE DIMENSIONS



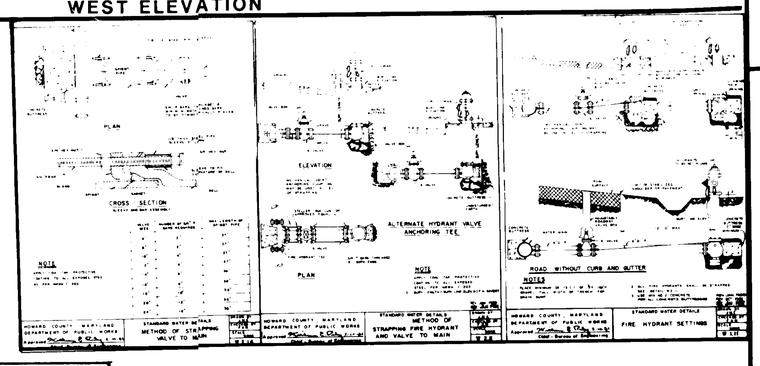
HOWARD COUNTY, MARYLAND — DEPARTMENT OF PUBLIC WORKS — STANDARD SANITARY SEWER DETAIL — SEWER HOUSE CONNECTION — M 9.11



HOWARD COUNTY, MARYLAND — DEPARTMENT OF PUBLIC WORKS — STANDARD WATER DETAILS — BUTTRESS FOR TEES — M 9.08



HOWARD COUNTY, MARYLAND — DEPARTMENT OF PUBLIC WORKS — STANDARD WATER DETAILS — BUTTRESSES FOR CAPS AND HORIZONTAL BENDS — M 9.09



HOWARD COUNTY, MARYLAND — DEPARTMENT OF PUBLIC WORKS — STANDARD WATER DETAILS — METHOD OF STRAPPING VALVE TO MAIN — M 9.10

HOWARD COUNTY, MARYLAND — DEPARTMENT OF PUBLIC WORKS — STANDARD WATER DETAILS — METHOD OF STRAPPING FIRE HYDRANT AND VALVE TO MAIN — M 9.11

HOWARD COUNTY, MARYLAND — DEPARTMENT OF PUBLIC WORKS — STANDARD WATER DETAILS — FIRE HYDRANT SETTINGS — M 9.12

APPR
PLANNING
OF HOWARD
DATE 2-5-86

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

COUNTY HEALTH OFFICER — DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING

DIRECTOR — DATE 8-12-86

CHIEF DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION — DATE

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

DIRECTOR — DATE

CHIEF BUREAU OF ENGINEERING — DATE

STATE OF MARYLAND — DAVID SAMUEL PRESSMAN — REG. No. 11701 — PROFESSIONAL ENGINEER
3/17/86

Developer: GFS Realty, Inc.
P.O. Box 1804
Washington, D. C. 20013
Attn: Mr. Bob Unrath
386-0576

A. MORTON THOMAS and ASSOCIATES, INC.
CIVIL ENGINEERS - LAND PLANNERS - LAND SURVEYORS.
12750 TWINBROOK PARKWAY - ROCKVILLE, MARYLAND 20852 - (301) 881-2545
PROJECT ENGINEER ALBERT F. EDWARDS

DES.	DRN.	CHK DAE

DATE	REVISION	BY	APP'R.
11-15-85	ADDED NOTES	DAE	

GENERAL DETAILS

FOR DEVELOPMENT OF PARCEL B-3 AND PARTS OF LOTS 2-A, 3-A AND PARCEL B-1
2.9 ACRES — VILLAGE CENTER — PLAT 3718
VILLAGE OF OWEN BROWN, SECTION 1, AREA 3
CRADLEROCK WAY COLUMBIA 21045 6TH ELECTION DISTRICT HOWARD CO., MD.

SCALE	CONTOUR INTERVAL	A.M.T. FILE No.
		J-712
DATE	TAX MAP No.	SHEET
AUGUST, 1985	36	C 5 6 OF 9

SDP-86-72c

DESIGN CERTIFICATION:

I HEREBY 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

David S. Weber — 8/26/85

DAVID S. WEBER, PROFESSIONAL ENGINEER, MARYLAND REGISTRATION No. 12921 - C.E. — DATE

CERTIFICATION OF CUT & FILL AND DISTURBED AREA:

I HEREBY CERTIFY THAT THE ESTIMATED TOTAL AMOUNT OF EXCAVATION AND FILL AS SHOWN ON THESE PLANS HAS BEEN COMPUTED TO 2,600 CUBIC YARDS OF EXCAVATION, 800 CUBIC YARDS OF FILL, AND THE TOTAL AREA TO BE DISTURBED AS SHOWN ON THESE PLANS HAS BEEN DETERMINED TO BE 127,600 SQUARE FEET.

David S. Weber — 8/26/85

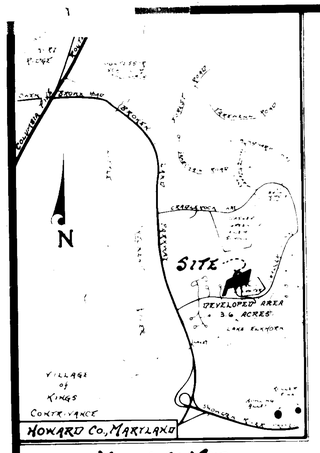
DAVID S. WEBER, PROFESSIONAL ENGINEER, MARYLAND REGISTRATION No. 12921 - C.E. — DATE

OWNER'S/DEVELOPER'S CERTIFICATION:

"I CERTIFY THAT ALL CLEARING, GRADING, CONSTRUCTION AND/OR DEVELOPEMENT WILL BE DONE PURSUANT 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."

Robert Unrath — 9/4/85

ROBERT UNRATH, GFS REALTY, INC. — DATE



VICINITY MAP

SCALE 1" 2000

LEGEND

- LIMIT OF DISTURBED AREA
- STABILIZE CONSTRUCTION ENTRANCE
- DRAIN INLET PROTECTION
- SILT FENCE

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

COUNTY HEALTH OFFICER — DATE 8-8-86

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING

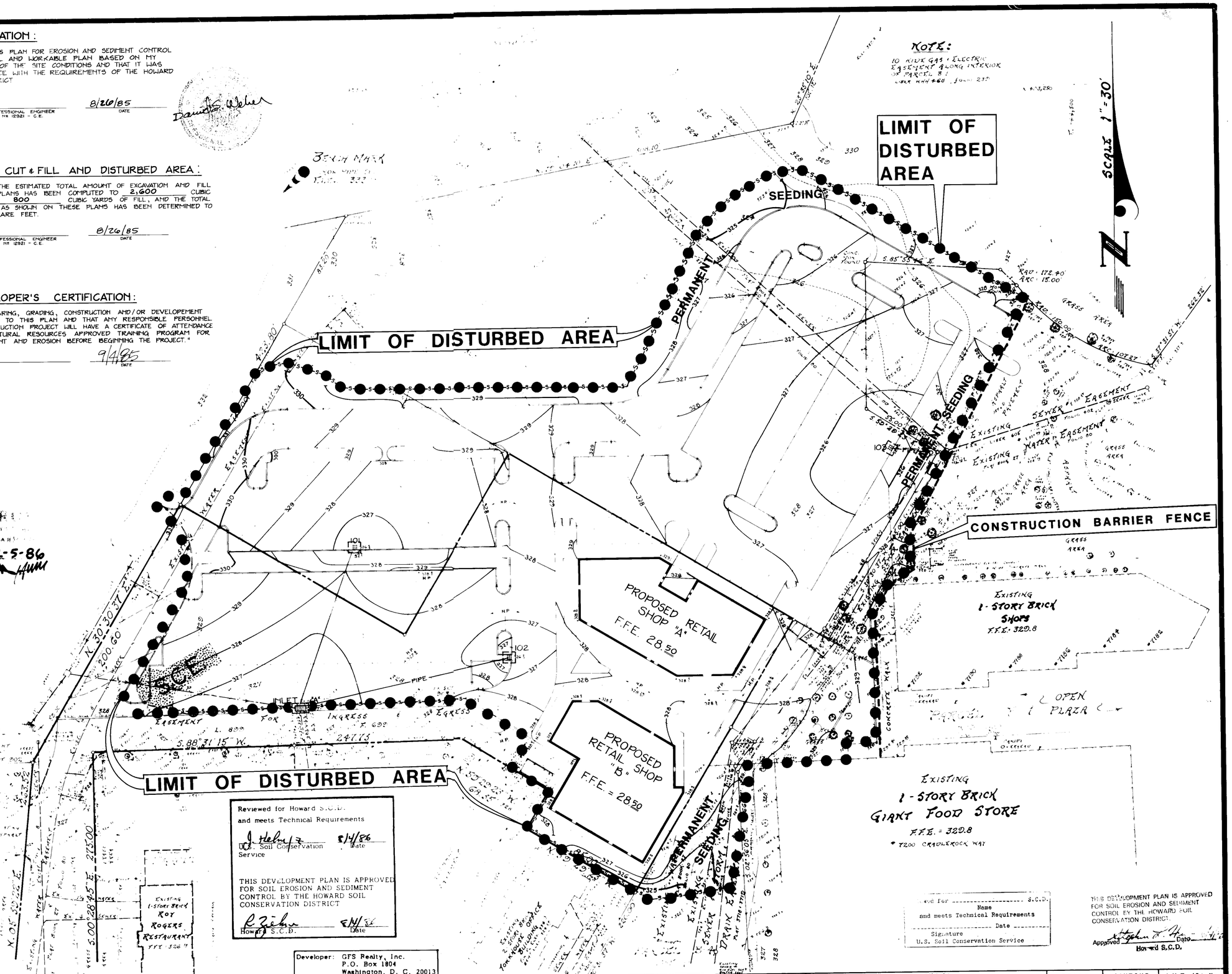
CHIEF DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION — DATE 8-12-86

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

DIRECTOR — DATE

CHIEF BUREAU OF ENGINEERING — DATE 8-6-86

APPROVED PLANNING BOARD OF HOWARD COUNTY DATE 2-5-86



Reviewed for Howard S.C.D. and meets Technical Requirements

J. Helm — 8/4/86

U.S. Soil Conservation Service — Date

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

R. Zeihn — 8/4/86

Howard S.C.D. — Date

Reviewed for _____ S.C.D. Name and meets Technical Requirements

Date

Signature U.S. Soil Conservation Service

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

Approved Stephen T. Hess — Date

Howard S.C.D.

Developer: GFS Realty, Inc.
P.O. Box 1804
Washington, D. C. 20013
Attn: Mr. Bob Unrath
386-0576

SEE SHEET C-7 FOR DETAILS & NOTES

A. MORTON THOMAS and ASSOCIATES, INC.
CIVIL ENGINEERS - LAND PLANNERS - LAND SURVEYORS
12750 TWINBROOK PARKWAY - ROCKVILLE, MARYLAND 20852 - (301) 881-2545
PROJECT ENGINEER ALBERT F. EDWARDS

DES. MBT DRN. CHK. ASE

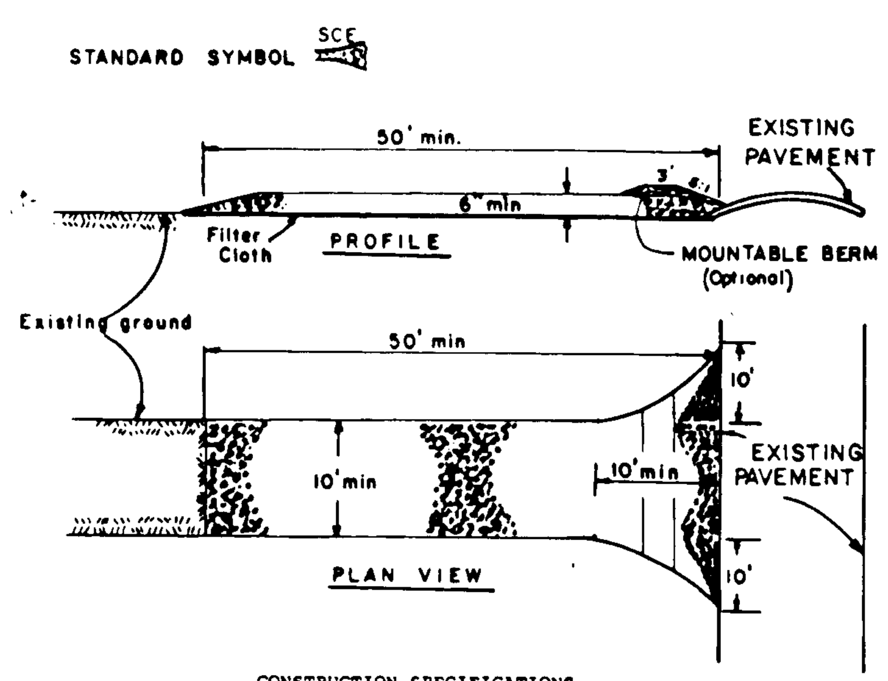
DATE	REVISION	BY
11-1-9-	ADDED INLET DETAIL	ASE

SOIL EROSION AND SEDIMENT CONTROL
FOR DEVELOPMENT OF PARCEL B-3 AND PARTS OF LOTS 2-A, 3-A AND PARCEL B-1
2.9 ACRES — VILLAGE CENTER — PLAT 3718
VILLAGE OF OWEN BROWN, SECTION 1, AREA 3
CRADLEROCK WAY COLUMBIA 21045 6TH ELECTION DISTRICT HOWARD CO., MD.

SCALE	CONTOUR INTERVAL	A.M.T. JOB No.
1" = 30'	1 Ft.	J-712
DATE	TAX MAP No.	SHEET
AUG. 85	36	C 6 7 OF 9

SDP-86-72c

STABILIZED CONSTRUCTION ENTRANCE
not to scale

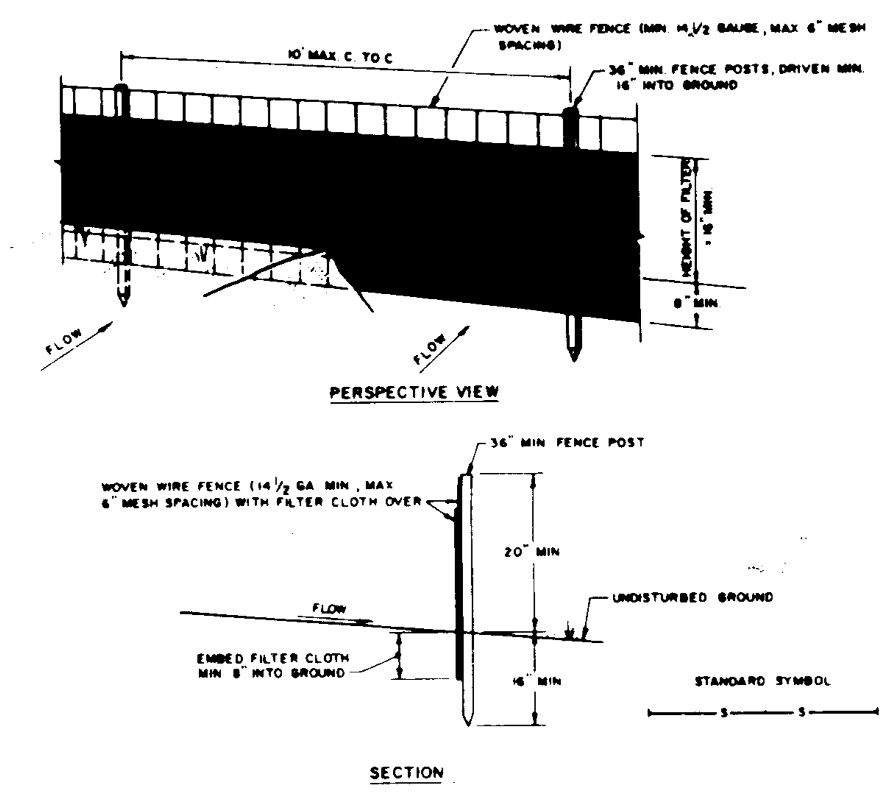


CONSTRUCTION SPECIFICATIONS

1. Stone Size - Use 2" stone, or reclaimed or recycled concrete equivalent.
2. Length - As required, but not less than 50 feet (except on a single residence lot where a 30 foot minimum length would apply).
3. Thickness - Not less than six (6) inches.
4. Width - Ten (10) foot minimum, but not less than the full width at points where ingress or egress occurs.
5. 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.
6. 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.
7. Maintenance - The entrance shall be maintained 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 cleanout of any measures used to trap sediment. All sediment spilled, dropped, washed or tracked onto public rights-of-way must be removed immediately.
8. 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.
9. Periodic inspection and needed maintenance shall be provided after each rain.

U. S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE College Park, Md.	STABILIZED CONSTRUCTION ENTRANCE	Standard Drawing SCE-1

SILT FENCE



CONSTRUCTION NOTES FOR FABRICATED SILT FENCE

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

POSTS: STEEL EITHER T OR U TYPE OR 2" HARDWOOD

FENCE: WOVEN WIRE, 14. GA. 6" MAX. MESH OPENING

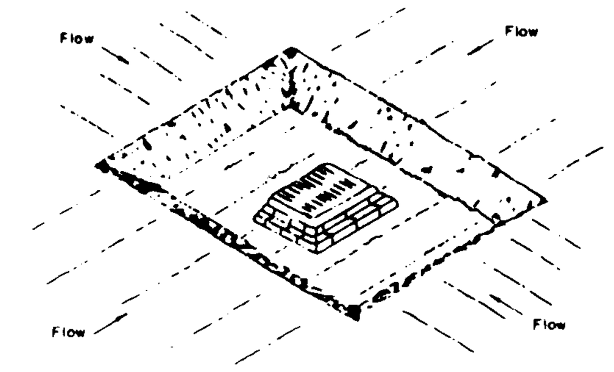
FILTER CLOTH: FILTER X, MIRAFI 100X, STABILINKA T140N OR APPROVED EQUAL

PREFABRICATED UNIT: GEOFAB, ENVIROFENCE, OR APPROVED EQUAL.

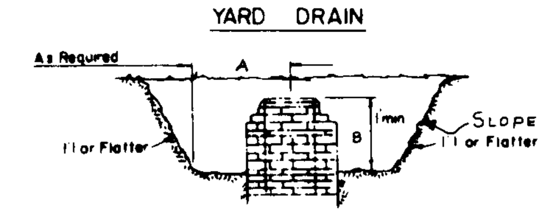
U.S DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE COLLEGE PARK, MARYLAND	SILT FENCE	STANDARD DRAWING SF-1

*** TO BE USED AT INLETS 101,102,and103**

STORM INLET SEDIMENT TRAP ST-III



YARD DRAIN



CROSS SECTION

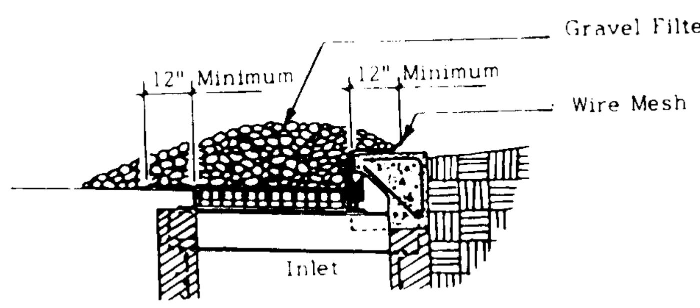
CONSTRUCTION SPECIFICATION FOR ST-III

1. Sediment shall be removed and the trap restored to its original dimensions when the sediment has accumulated to ½ 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.
2. The volume of sediment storage shall be 1800 cubic feet per acre of contributory drainage.
3. The structure shall be inspected after each rain and repairs made as needed.
4. Construction operations shall be carried out in such a manner that erosion and water pollution shall be minimized.
5. The sediment trap shall be removed and the area stabilized when the constructed drainage area has been properly stabilized.
6. All cut slopes shall be 1:1 or flatter.

Maximum Drainage Area: 3 Acres

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE COLLEGE PARK, MARYLAND	*STORM INLET SEDIMENT TRAP	STANDARD DRAWING ST-III

INLET	DRAINAGE AREA	STORAGE VOLUME	DIMENSION A	DIMENSION B	BOTTOM ELEVATION
101	1.30 AC	2340 cu.ft.	14.5'	2.5'	324
102	0.43 AC	740 cu.ft.	7.5'	2.5'	323.7
103	1.03 AC	1854 cu.ft.	12.25'	2.5'	322.5



*GRAVEL INLET SEDIMENT FILTER

1. Hardware cloth or comparable wire mesh with ½-inch openings shall be placed over the curb inlet opening so that at least 12 inches of wire extends across the inlet cover and at least 12 inches of wire extends beyond the edge of the grate.
2. Stone shall be piled against the wire so as to anchor it against the grate and inlet cover and to cover the inlet opening and grate completely. Two inche (2") Coarse Aggregate shall be used.
3. If the stone filter becomes clogged with sediment so that it no longer adequately performs its function, the stone must be pulled away from the block, cleaned and replaced.

*** TO BE USED AT INLET "A"**

STANDARD AND SPECIFICATIONS FOR VEGETATIVE STABILIZATION PERMANENT SEEDINGS

SPECIFICATIONS

Minimum soil conditions needed for the establishment and maintenance of a long-lived vegetative cover:

A. Enough fine-grained materials (over 30 percent silt plus clay) to provide the capacity to hold at least a moderate amount of available moisture. Noticeable exception would be planting lovegrass and sericia lespedeza which can be planted on a sandy soil.

B. Sufficient pore space to permit adequate root penetration.

C. The soil shall be free from any material harmful to plant growth.

I. Site Preparation

A. Install needed erosion and sediment control practices such as dikes, contour ripping, erosion stops, channel liners, sediment basins, or other practices.

B. Grade as needed and feasible to permit the use of conventional equipment for seedbed preparation, seeding, mulch application, anchoring and maintenance.

II. Soil Preparation

Flat areas and slopes up to 3 to 1 grade shall be loose and friable to a depth of at least 3 inches. The top layer of soil shall be loosened by raking, discing or other acceptable means before seeding.

Slopes steeper than 3 to 1 shall have the top 1-3 inches of soil loose and friable before seeding.

III. Soil Amendments

Lime and fertilize according to soil tests. Lime and fertilizer needs can be determined by a soil testing laboratory, such as the University of Maryland's Soil Testing Laboratory.

In lieu of soil test results, apply two tons dolomitic limestone per acre and one of the following rates of fertilizer: 1,000 pounds 10-10-10 or equivalent per acre. For a longer lasting fertilizer treatment apply 600 pounds 10-10-10 or equivalent per acre and disk in and at time of seeding apply an additional 400 pounds of a ureaform fertilizer of a grade of at least 30-0-0 per acre. Apply the lime and fertilizer before seeding and harrow or disk uniformly into the soil to a minimum depth of 3 inches on slopes flatter than 3:1. On slopes steeper than 3:1 grade, the lime and fertilizer shall be worked the best way possible. On sloping land, the final harrowing or discing operation should be on the contour wherever feasible. No attempt should be made to drag any dished area to make the soil surface smooth after disking.

Note. The slow release ureaform fertilizer will supply nitrogen over a longer period of time.

IV. Seeding

A. Select a mixture from table 51-1.

B. Apply seed uniformly with a cyclone seeder, drill, cultipacker seeder or hydroseeder (slurry includes seed and fertilizer) on a firm, moist seedbed. Maximum seeding depth should be 1/4 inch on clayey soils and 1/2 inch on sandy soils, when using other than hydroseeder method of application. Note: If hydroseeding is used and the seed and fertilizer is mixed, they will be mixed on site and the seeding shall be immediate without interruption.

V. Mulching

Mulch material shall be applied to seeded area.

A. Materials and Amounts

1. Straw - Straw shall be unrotted small grain applied at the rate of 1½ to 2 tons per acre, or 70 to 90 (two bales) pounds per 1,000 square feet. Mulch materials shall be relatively free of all kinds of weeds and shall be free of prohibited noxious weeds such as: thistles, Johnsongrass and quackgrass.

Spread uniformly by hand or mechanically. For uniform distribution of hand spread mulch, divide area into approximately 1,000 square foot section and place 70-90 pounds of mulch in each section.

2. Wood cellulose fiber - mulch at the rate of 1,500 pounds per acre or 35 pounds per 1,000 square feet may be applied by hydroseeding.

B. Mulch anchoring shall be accomplished immediately after mulch placement to minimize loss by wind or water. This may be done by one of the following methods

1. Liquid Mulch Binders - Applications of liquid binders should be heavier at edges where wind catches mulch, in valleys, and at crests of banks. Remainder of area should be uniform in appearance. Caution should be used with asphalt in residential and similar areas.

Synthetic binders - Synthetic binders such as Acrylic DLR (Agri-Tac), DCA-70, Petroset or Terra Tac II or Terra Tack AR may be used at rates recommended by the manufacturer to anchor mulch material.

2. Wood cellulose fiber - Wood cellulose fiber may be used for anchoring straw. The fiber binder shall be applied at a net dry weight of 750 pounds/acre. The wood cellulose fiber shall be mixed with water and the mixture shall contain a maximum of 50 pounds of wood cellulose fiber per 100 gallons.

3. Peg and Twine - Drive 8-to 10-inch wooden pegs to within 2 to 3 inches of the soil surface every 4 feet in all directions. Stakes may be driven before or after applying mulch. Secure mulch to soil surface by stretching twine between pegs in a criss-cross within a square pattern. Secure twine around each peg with two or more complete turns.

VI. Irrigation

If soil moisture is deficient, supply new seedings with adequate water for plant growth until they are firmly established.

VII. Maintenance

Maintenance is a vital factor in maintaining an adequate vegetative erosion control cover.

A. Irrigation - If soil moisture becomes deficient, irrigate to prevent loss of stand of protective vegetation.

B. Repairs - Inspect all seeded areas for failures and make necessary repairs, replacements, and reseedings within the planting season.

1. If stand is inadequate for erosion control, overseed and fertilize using half of the rates originally applied.

2. If stand is over 60% damaged, reestablish following original lime, fertilizer, seedbed preparation and seeding recommendations.

TABLE 51
Permanent Seeding and Seeding Dates

Mix No.	SEEDING MIXTURES (Use Certified Seed if available)	SEEDING RATE lbs Acre	SEEDING RATE lbs 1000 Sq Ft	OPTIMUM SEEDING DATES (a)
1	Kentucky 31 Tall Fescue*	60	1.38	[illegible]
2	Kentucky 31 Tall Fescue* / Kobe lespedeza	[illegible]	[illegible]	[illegible]
3	Weeping Lovegrass / Kentucky 31 Tall Fescue*	[illegible]	[illegible]	[illegible]
4	Korean lespedeza (inoculated) / Kentucky 31 Tall Fescue*	[illegible]	[illegible]	[illegible]
5	Interstate Sericea lespedeza (inoculated) / Kentucky 31 Tall Fescue*	20 / 40	[illegible]	[illegible]
6	Birdsfoot trefoil (inoculated) / Chemung crownvetch (inoculated)	[illegible]	[illegible]	[illegible]
7	Redtop / Chemung crownvetch (inoculated) / Kentucky 31 Tall Fescue*	[illegible]	[illegible]	[illegible]
8	Kentucky 31 Tall Fescue / Redtop / Canada Bluegrass / Kentucky Bluegrass	[illegible]	[illegible]	[illegible]
9	Kentucky Bluegrass / Pennlawn Creeping Red Fescue / Redtop	90	[illegible]	[illegible]
	Droughty Areas			
10	Kentucky 31 Tall Fescue* / Redtop	30	[illegible]	[illegible]
11	Weeping lovegrass / Sericia lespedeza (inoculated)	20	[illegible]	[illegible]
	Poorly Drained Areas			
12	Kentucky 31 Tall Fescue*	30	[illegible]	[illegible]
13	Reed canarygrass	10	23	[illegible]
	Shaded Areas			
14	Kentucky 31 Tall Fescue*	60	1.38	[illegible]
15	Red Fescue (Jamestown) / Pennlawn	40	[illegible]	[illegible]
	Lawns & High Maintenance Areas			
16	Plush, Birka, Parade, Vantage, Columbia, Merion, Adelphi, South Dakota, Bonblue (Kentucky Bluegrass) / Red Fescue, Pennlawn, Jamestown	90 / 10	[illegible]	[illegible]
17	Kentucky 31 Tall Fescue*	220 / 260	[illegible]	[illegible]

*Use Certified Seed [illegible]
[illegible]

Criteria for Filter Cloth

The filter cloth shall be a woven or nonwoven fabric consisting only of continuous chain polymeric filaments or yarns of polyester. The fabric shall be inert to commonly encountered chemicals, hydro-carbons, mildew, rot resistant, and conform to the properties of the following table:

Fabric Properties 3/	Light Duty 1/ Roads Grade Subgrade	Heavy Duty 2/ Haul Roads Rough Graded	Test Method
Grab Tensile Strength (lbs)	200	220	ASTM D1682
Elongation at Failure (%)	50	60	ASTM D1682
Mullen Brust Strength (lbs)	190	430	ASTM D3786
Puncture Strength (lbs)	40	125	ASTM D751 modified
Equivalent Opening Size	40-80	40-80	US Std Sieve CW-02215
Aggregate Depth (in)	6	10	—

1/ Light Duty Road: Are sites that have been graded to subgrade and where most travel would be single axle vehicles and an occasional multi-axle truck. Trevira Spunbond 1115, Mirafi 100X, Typar 3401, or equivalent.

2/ Heavy Duty Road: Are sites with only rough grading, and where most travel would be multi-axle vehicles. Trevira Spunboad 1135, Miraft 600X, or equivalent.

3/ Fabrics not meeting these specifications may be used only when design procedure and supporting documentation are supplied to determine aggregate depth and fabric strength.

Maintenance

The entrance shall be maintained in a condition which will prevent tracking of sediment onto public rights-of-way or streets. This may require periodic top dressing with additional aggregate. All sediment spilled, dropped, or washed onto public rights-of-way must be removed immediately.

When necessary, wheels must 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 aggregate which drains into an approved sediment trapping device. All sediment shall be prevented from entering storm drains, ditches, or watercourses.

Criteria for Silt Fence Materials

1. Silt Fence Fabric: The fabric shall meet the following specifications unless otherwise approved by the appropriate erosion and sediment control plan approval authority. Such approval shall not constitute statewide acceptance. Statewide acceptability shall depend on in-field and/or laboratory observations and evaluations.

Fabric Properties	Minumum Acceptable Value	Test Method
Grab Tensile Strength (lbs)	90	ASTM D1682
Elongation at Failure (%)	50	ASTM D1682
Mullen Burst Strength (PSI)	190	ASTM D3786
Puncture Strength (lbs)	40	ASTM D751 (modified)
Slurry Flow Rate (gal/min/sf)	0.3	Virginia DOT VTM-51
Equivalent Opening Size	40-80	US Std Sieve CW-02215
Ultraviolet Radiation Stability %	90	ASTM-G-26

2. Fence Posts (for fabricated units): The length shall be a minimum of 36 inches long. Wood posts will be of sound quality hardwood with a minimum cross sectional area of 3.0 square inches. Steel posts will be standard T and U section weighing not less than 1.00 pound per linear foot.
3. Wire Fence (for fabricated units): Wire fencing shall be a minimum 14½ gage with a maximum 6" mesh opening, or as approved.
4. Prefabricated Units: Envirofence or approved equal may be used in lieu of the above method providing the unit is installed per manufacturer's instructions.

Sequence of Construction

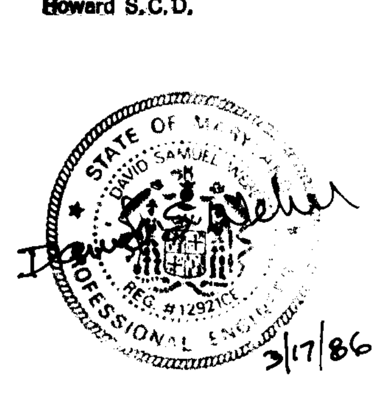
1. Install sediment control measures, clearing and grading only these areas necessary to install these measures (1 week).
2. Clear and grade site (1 week).
3. Install utilities and provide storm inlet sediment traps for the proposed storm drain (3 weeks).
4. Construct building and pave site (6 months).
5. After Howard County has inspected and approved site stabilization, remove sediment control measures and restore those areas to conditions as shown on the site plan.

SEDIMENT CONTROL NOTES

1) 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)
2) 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.
3) Following initial soil disturbance or redisturbance, 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.
4) All sediment traps/basins shown must be fenced and warning signs posted around their perimeter in accordance with Vol. 1, Chaper 12, of the HOWARD COUNTY DESIGN MANUAL, Storm Drainage.
5) 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.
6) 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
7) Site Analysis:
   - Total Area of Site 14.1 Acres
   - Area Disturbed 3.6 Acres
   - Area to be roofed or paved 3.2 Acres
   - Area to be vegetatively stabilized 0.4 Acres
   - Total Cut 2605 Cu. yds
   - Total Fill 923 Cu. yds
   - Offsite waste/borrow area location SHALL BE DETERMINED BY CONTRACTOR PRIOR TO INITIAL GRADING.
8) Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
9) Additional sediment controls must be provided, if deemed necessary by the Howard County DPW sediment control inspector.
10) 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.

Reviewed for Howard S.C.D.
Name
and meets Technical Requirements
J. Helm/z Date 8-4-86
Signature
U.S. Soil Conservation Service

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
Approved Stephen L. [illegible] Date 9/4/86
Howard S.C.D.



APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
[signature] DATE 8-8-86
COUNTY HEALTH OFFICER

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
DIRECTOR DATE
John W. Musselman DATE 8-12-86
CHIEF DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR DATE
CHIEF BUREAU OF ENGINEERING DATE

APPROVED
PLANNING
OF HOWARD
2-5-86

Developer: GFS Realty, Inc.
P.O. Box 1804
Washington, D. C. 20013
Attn: Mr. Bob Unrath
386-0576

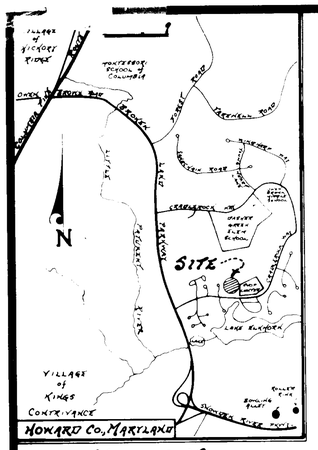
DATE	REVISION	BY	APP'R.
1-21-86	DIMENSIONED SEDIMENT TRAPS COMPLETED SEDIMENT CONTROL NOTES.	B.K.K.	
28 OCT, '85	CHANGED TYPE OF INLET PROTECTION & ADDED SEEDING NOTES	MBT	[initials]

A. MORTON THOMAS and ASSOCIATES, INC.
CIVIL ENGINEERS - LAND PLANNERS - LAND SURVEYORS.
12750 TWINBROOK PARKWAY - ROCKVILLE, MARYLAND 20852 - (301) 881-2545
PROJECT ENGINEER ALBERT F. EDWARDS
DES. DRN. CHK. A.F.E.

SEDIMENT CONTROL NOTES & DETAILS
FOR DEVELOPMENT OF PARCEL B-3 AND PARTS OF LOTS 2-A, 3-A AND PARCEL B-2
2.9 ACRES PLAT 3718
VILLAGE CENTER
VILLAGE OF OWEN BROWN, SECTION 1, AREA 3
CRADLEROCK WAY COLUMBIA 21045 6TH ELECTION DISTRICT HOWARD CO., MD

SCALE	CONTOUR INTERVAL	A.M.T. FILE No.
—	—	J - 712
DATE	TAX MAP No.	SHEET
AUG., '85	36	C 7 8 OF 9

SDP-86-72



VICINITY MAP

SCALE: 1" = 2000'

SYMBOLS	NAME (BOTANICAL/COMMON)	QUANT.	SIZE	REMARKS
PA	PLATANUS x ACERIFOLIA BLOODGOOD / Bloodgood London Planetree	29	2½ - 3" CAL.	B & B
QP	QUERCUS PALUSTRAS / Pin Oak	21	2 - 2½" CAL.	B & B
✱	PINUS STROBUS / Eastern White Pine		7/8' HT.	B & B
+—+	EUONYMUS ALATUS COMPACTA / Compact Burning Bush	6	24/30"	Container

PARKING LOT LIGHTING SCHEDULE

SYMBOLS	DESCRIPTION	QUANTITY
■	GARDCO CAT. NO. H1913-20B - 400 HIGH PRESSURE SODIUM - BRA - C6 - 30/L - BRA	13
□	GARDCO CAT. NO. H1913-20B - 400 METAL HALIDE - BRA - C6 - 30/L - BRA	22
-o-	LIGHT POLE	18

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

COUNTY HEALTH OFFICER — DATE 8-8-86

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING

DIRECTOR — DATE 8-12-86

CHIEF DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION — DATE

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

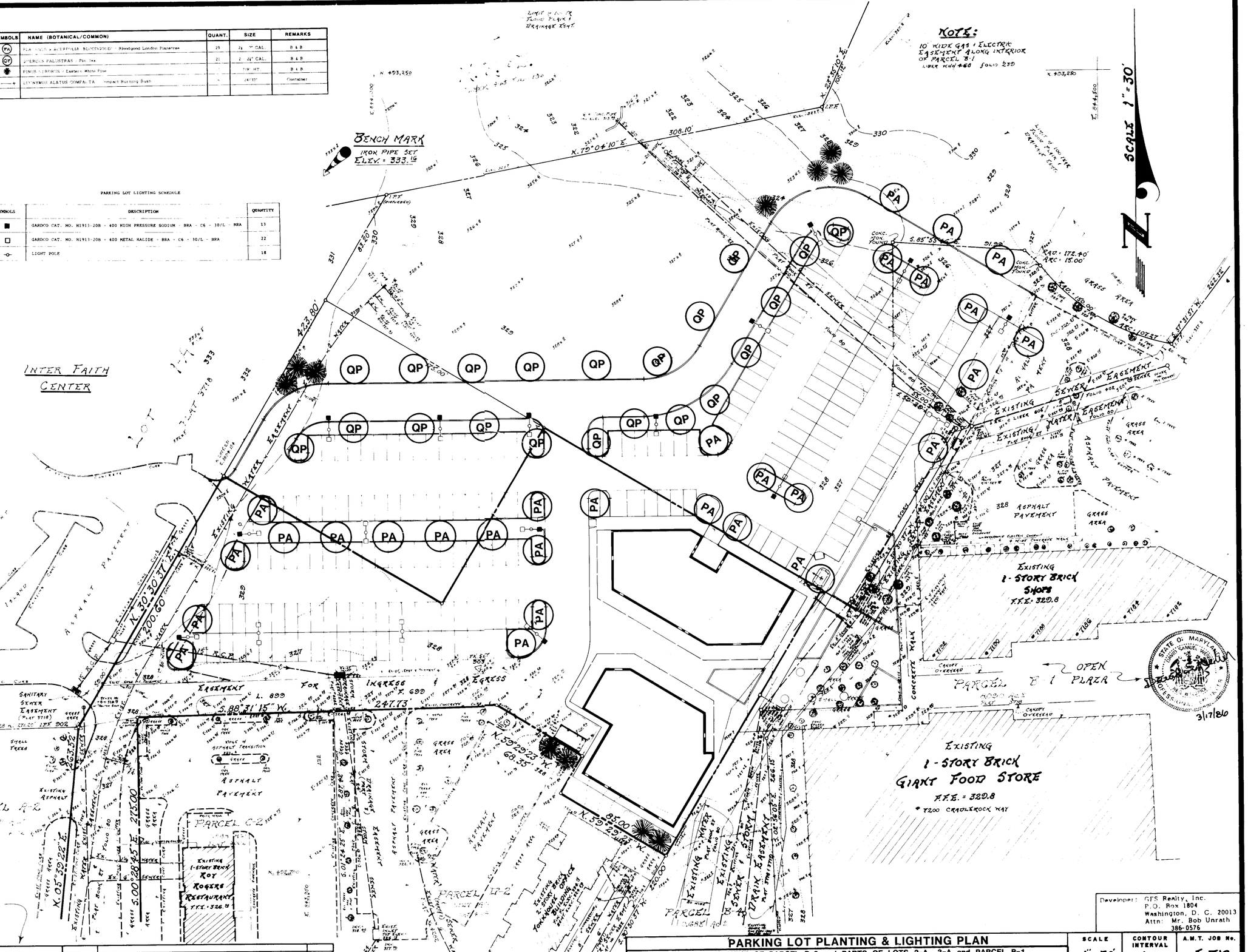
DIRECTOR — DATE

CHIEF BUREAU OF ENGINEERING — DATE 8-6-86

APPROVED
PLANNING
OF HOWARD
DATE 2-5-86

BENCHMARKS

ESTABLISHED FROM BENCHMARK # 906
X ON CURB RIGHT OF CENTERLINE STATION
83+00 CRADLEROCK WAY.
ELEV. = 315.22



LEGEND:

EXISTING CONTOUR:	326
PROPOSED CONTOUR:	326
SPOT ELEV. EXISTING:	328 x
SPOT ELEV. PROPOSED:	28 x
EXISTING STORM DRAIN:	
EXISTING SAN. SEWER:	
EXISTING WATER MAIN:	
EXISTING CURB LINE:	
EXISTING PARKING SPACES:	(17)
PROP. PARKING SPACES:	(17)
PROP. CURB LINE:	
E:	FLOW LINE
TOC:	TOP OF CURB

263.5' FROM I.P.F. 902 to CRADLEROCK WAY

Developer: GFS Realty, Inc.
P.O. Box 1804
Washington, D. C. 20013
Attn: Mr. Bob Unrath
386-0576

A. MORTON THOMAS and ASSOCIATES, INC.
CIVIL ENGINEERS - LAND PLANNERS - LAND SURVEYORS
12750 TWINBROOK PARKWAY - ROCKVILLE, MARYLAND 20852 - (301) 881-2545
PROJECT ENGINEER ALBERT F. EDWARDS

DES. — DRN. J.J.S. — CHK. AFE

DATE	REVISION	BY
3/86		
11-1-85	REVISED SIGNATURE BLOCK	
5-15-85	ADDED PARKING LOT ON EXT. PA	J.J.S.

PARKING LOT PLANTING & LIGHTING PLAN

FOR DEVELOPMENT OF PARCEL B-3 and PARTS OF LOTS 2-A, 3-A and PARCEL B-1

2.9 ACRES — PLAT 3718

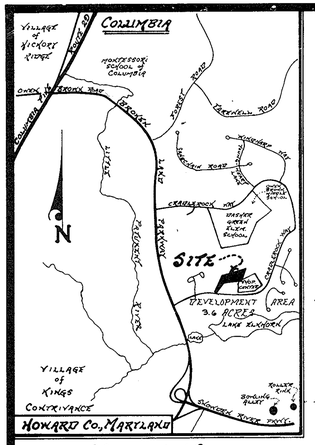
VILLAGE CENTER

VILLAGE OF OWEN BROWN, SECTION 1, AREA 3

CRADLEROCK WAY COLUMBIA 21045 — 6th ELECTION DISTRICT HOWARD CO., MD

SCALE	CONTOUR INTERVAL	A.M.T. JOB No.
1" = 30'	1 Ft.	J-712
DATE	TAX MAP No.	SHEET
AUG. 85	36	C-8 9 of 9

SDP-86-72c



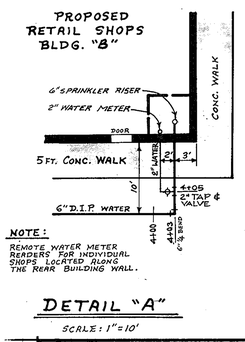
VICINITY MAP

SCALE: 1" = 2000'

GENERAL NOTES

1. Utility information shown on this plan was taken from available records. The exact location of the underground utilities shall be field verified by the contractor prior to construction.
2. The contractor shall hand dig test pits at all utility crossings to determine the exact location and depth well in advance of construction.
3. For marking locations of existing utilities, notify "Miss Utility" at (301) 559-0100, 48 hours prior to any excavation or construction.
4. Omissions and/or additions of utilities found during construction is the sole responsibility of any contractor engaged in excavation at this site. Giant Food, Inc. and A. Morton Thomas and Associates, Inc. shall be notified immediately of any and all utility information, omissions and additions found by said contractor(s).
5. We are not responsible for any construction on site, persons, trucks, trailors, merchandise and/or equipment used or adjacent to this site due to the proximity of live underground utilities.
6. Property recorded in Land Records of Howard Co. as Plat No. 4002, easements, etc. recorded also as Plat Book 27 Folio 80, Plat 3718 and 3719 and Plan No. 4282.
7. Development criteria recorded: Plat Book 28 at Folio 136 thru 139.
8. Zoned: NT (ALL PARCELS SHOWN ON THIS PLAN)
9. Any damage to County owned rights-of-way to be corrected at the contractor's expense.
10. All coordinates are based on Maryland State Grid System. Elevations on U.S. Coast and Geodetic Survey Mean Sea Level Datum of 1929.
11. Prior to the start of construction, the contractor shall dig test pits to expose existing sewer and water lines and call the engineer @881-2545 to verify elevations taken from Howard County Dept. of Public Works Plans. The contractor shall give the engineer 24 hours notice prior to beginning this item.
12. See Sheet C-4 for all sanitary sewer detail plan and profile. See also Sheet C-4 for waterline details and profiles.
13. "The contractor or developer shall contact the Construction Inspection Division 24 hours in advance of commencement of work, at 792-2630."

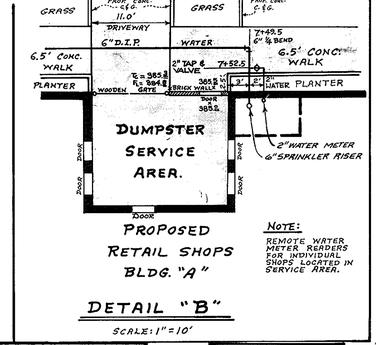
WATER LINE SERVICE CONNECTION DETAILS



NOTE: REMOTE WATER METER READERS FOR INDIVIDUAL SHOPS LOCATED ALONG THE REAR BUILDING WALL.

DETAIL "A"

SCALE: 1" = 10'



PROPOSED RETAIL SHOPS BLDG. "A"

NOTE: REMOTE WATER METER READERS FOR INDIVIDUAL SHOPS LOCATED IN SERVICE AREA.

DETAIL "B"

SCALE: 1" = 10'

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

COUNTY HEALTH OFFICER — DATE 8-8-86

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING

DIRECTOR — DATE 8-12-86

CHIEF DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION — DATE 8-12-86

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

DIRECTOR — DATE 8-7-86

CHIEF BUREAU OF ENGINEERING — DATE 8-6-86

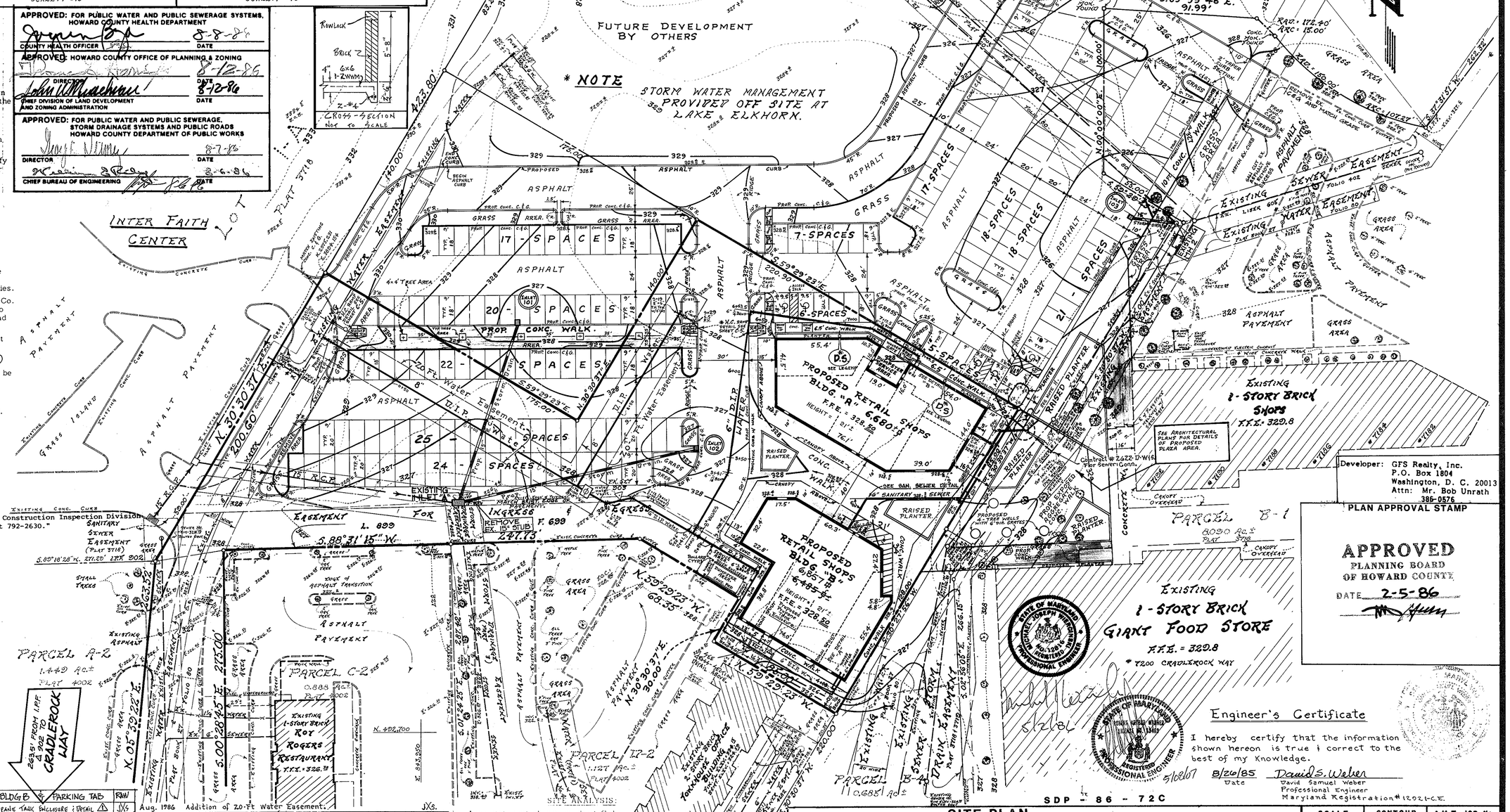
NOTE: PARKING STALLS DIMENSIONED 9'x20' (TYP) EXCEPT WHERE A 2.0' OVERHANG PERMITTED BY CODE THEN PARKING STALLS ARE 9'x18'.

PARKING TABULATION

REQUIRED: 1 SPACE/200 @ ~~4,445~~ 13,857 = 69 SPACES

PROVIDED: 135 STANDARD SPACES
5 HANDICAPPED SPACES

TOTAL = 200 SPACES
SURPLUS = 133 SPACES
"ON-SITE" = 62 SPACES



NOTE: 10' WIDE GAS & ELECTRIC EASEMENT ALONG INTERIOR OF PARCEL B-1 LIBER 403 FOLIO 230

BENCHMARKS: ESTABLISHED FROM BENCHMARK #906 "X" ON CURB RIGHT OF CENTERLINE STATION 83+00 CRADLEROCK WAY. ELEV. = 315.22

Developer: GFS Realty, Inc.
P.O. Box 1804
Washington, D. C. 20013
Attn: Mr. Bob Unrath
385-0576

PLAN APPROVAL STAMP

APPROVED
PLANNING BOARD
OF HOWARD COUNTY
DATE 2-5-86

STATE OF MARYLAND — MICHAEL JOSEPH WEBER — REGISTERED PROFESSIONAL ENGINEER

STATE OF MARYLAND — DAVID SAMUEL WEBER — REGISTERED PROFESSIONAL ENGINEER

Engineer's Certificate

I hereby certify that the information shown hereon is true & correct to the best of my knowledge.

8/20/85 — Date

David S. Weber
David Samuel Weber
Professional Engineer
Maryland Registration #12021-C.E.

SDP - 86 - 72C

LEGEND:

- EXISTING CONTOUR: ---326---
- PROPOSED CONTOUR: —326—
- SPOT ELEV. EXISTING: 328x
- SPOT ELEV. PROPOSED: 28x
- EXISTING STORM DRAIN:
- EXISTING SAN. SEWER:
- EXISTING WATER MAIN:
- EXISTING CURB LINE:
- EXISTING PARKING SPACES: (17)
- PROP. PARKING SPACES: (17)
- PROP. CURB LINE:
- F.L. ..... FLOW LINE
- T.O.C. ..... TOP OF CURB
- PROP. CONC. CURB & GUTTER OR ASPHALT CURB WHERE NOTED
- PROP. CONC. CURB & REVERSE GUTTER
- SHADED AREA, PROP. CONC.
- EXISTING ASPHALT
- DOWN SPOUT PIPED UNDER THE SIDEWALK TO DISCHARGE @ FACE OF CURBS (D.S.)

SITE ANALYSIS:

1. Area statement shown on sheet C-1.
2. Zoning: New Town (NT Employment Center Commercial)
3. Parking requirements (see tabulation sheet C-2).
4. Proposed Shop "A" single story retail sales 6,680 sq. ft.
5. Proposed Shop "B" single story retail sales ~~6,485~~ 6,857 sq. ft.
6. Public water and sewer to be utilized.

DATE	REVISION	BY
3-23-87	REDLINE REVISION TO BLDG B & PARKING TAB	RAW
5-27-87	Addition of Proposed Propane Tank Enclosure & Detail	JKS
Aug. 1986	Addition of 20-Ft Water Easement.	JKS.
4-25-86	Revised easement to accomodate vault changed to 6' D.I.P. from vault to building.	B.K.K.
2-27-86	REVISED POSITION OF PROP. FIRE HYDRANT.	J.J.G.
2-25-86	ADDITIONAL HANDICAP RAMPS DRAWN ON PLAN; PLANTER ADDED	J.J.G.
2-10-86	REVISED PROP. CONC. WALKS, GRASS AREAS, CONC. HANDICAP RAMPS.	J.J.G.
11-14-85	DRAFTED New Water Line Layout. Station 0+00-2+12 & 8+00-9+31.	J.J.G.
10-30-85	REVISED HANDICAP RAMPS AND ADDED HANDICAP ACCESS ISLE.	J.J.G.

A. MORTON THOMAS and ASSOCIATES, INC.
CIVIL ENGINEERS - LAND PLANNERS - LAND SURVEYORS
12750 TWINBROOK PARKWAY - ROCKVILLE, MARYLAND 20852 - (301) 881-2545
PROJECT ENGINEER ALBERT F. EDWARDS

DES. ADE DRN. J.J.S. CHK. ADE

SITE PLAN

FOR DEVELOPMENT OF PARCEL B-3 AND PARTS OF LOTS 2-A, 3-A AND PARCEL B-1
2.9 ACRES — PLAT 3718

VILLAGE CENTER

VILLAGE OF OWEN BROWN, SECTION 1, AREA 3
CRADLEROCK WAY COLUMBIA 21045 — 6TH ELECTION DISTRICT HOWARD CO., MD.

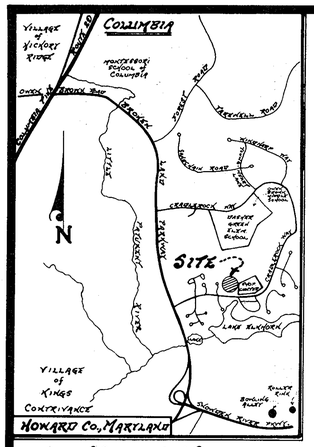
SCALE	CONTOUR INTERVAL	A.M.T. JOB No.
1" = 30'	1 Ft.	J-712
DATE	TAX MAP No.	SHEET
AUG. 85'	36	C 2 3 OF 9

SDP-86-72c

SYMBOLS	NAME (BOTANICAL/COMMON)	QUANT.	SIZE	REMARKS
PA	PLATANUS x ACERFOLIA 'BLOODGOOD' / Bloodgood London Planetree	29	2½ - 3" CAL.	B & B
QP	QUERCUS PALUSTRAS / Pin Oak	21	2 - 2½" CAL.	B & B
	PINUS STROBUS / Eastern White Pine	11	7/8' HT.	B & B
	EUONYMUS ALATUS COMPACTA / Compact Burning Bush	6	24/30"	Container

PARKING LOT LIGHTING SCHEDULE

SYMBOLS	DESCRIPTION	QUANTITY
■	GARDCO CAT. NO. H1913-20B - 400 HIGH PRESSURE SODIUM - BRA - C6 - 30/L - BRA	13
□	GARDCO CAT. NO. H1913-20B - 400 METAL HALIDE - BRA - C6 - 30/L - BRA	22
-O-	LIGHT POLE	18



VICINITY MAP

SCALE: 1" = 2000'

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

COUNTY HEALTH OFFICER — DATE 8-8-86

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING

DIRECTOR — DATE 8-12-86

CHIEF DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION — DATE 8-12-86

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

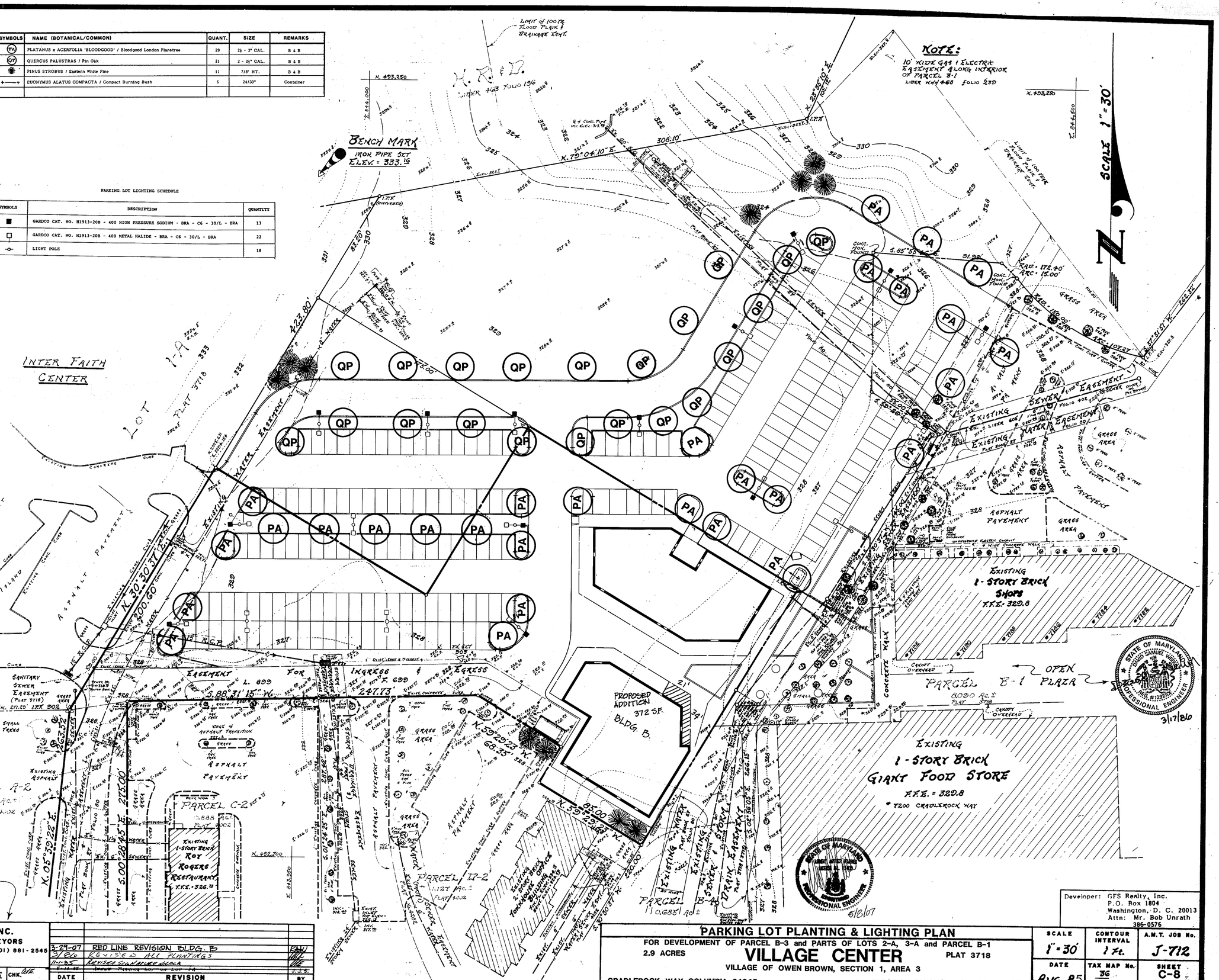
DIRECTOR — DATE 8-7-86

CHIEF BUREAU OF ENGINEERING — DATE 8-6-86

APPROVED
PLANNING BOARD
OF HOWARD COUNTY
DATE 2-5-86

BENCHMARKS:

ESTABLISHED FROM BENCHMARK # 90G
"X" ON CURB RIGHT OF CENTERLINE STATION 83+00 CRADLEROCK WAY.
ELEV. = 315.22



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PROJECT ENGINEER ALBERT F. EDWARDS

DES.	DRN. J.J.S.	CHK. AFE

DATE	REVISION	BY
3-29-07	RED LINE REVISION BLDG. B	RWJ
3/86	REVISED ALL PLANTINGS	AFE
11-1-05	REVISED SIGNATURE BLOCK	AFE
5-11-05	REVISE PARKING LOT ON EAST END	J.J.S.

Developer: GFS Realty, Inc.
P.O. Box 1804
Washington, D. C. 20013
Attn: Mr. Bob Unrath
386-0576

PARKING LOT PLANTING & LIGHTING PLAN

FOR DEVELOPMENT OF PARCEL B-3 and PARTS OF LOTS 2-A, 3-A and PARCEL B-1

2.9 ACRES — **VILLAGE CENTER** — PLAT 3718

VILLAGE OF OWEN BROWN, SECTION 1, AREA 3

CRADLEROCK WAY COLUMBIA 21045 — 6th ELECTION DISTRICT HOWARD CO., MD

SCALE	CONTOUR INTERVAL	A.M.T. JOB No.
1" = 30'	1 Ft.	J-712
DATE	TAX MAP No.	SHEET
AUG. 85	36	C-8 9 of 9

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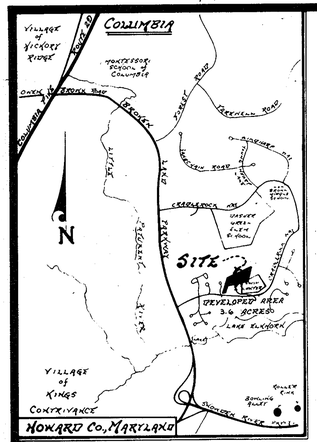


VICINITY MAP

SCALE: 1"=2000'

DESIGN CERTIFICATION:

I HEREBY 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.

David S. Weber — DAVID S. LIEBER, PROFESSIONAL ENGINEER, MARYLAND REGISTRATION No 12921 - C.E. — DATE 8/26/85

STATE OF MARYLAND — DAVID SAMUEL WEBER — No. 12921 — PROFESSIONAL ENGINEER

CERTIFICATION OF CUT & FILL AND DISTURBED AREA:

I HEREBY CERTIFY THAT THE ESTIMATED TOTAL AMOUNT OF EXCAVATION AND FILL AS SHOWN ON THESE PLANS HAS BEEN COMPUTED TO 2,600 CUBIC YARDS OF EXCAVATION, 800 CUBIC YARDS OF FILL, AND THE TOTAL AREA TO BE DISTURBED AS SHOWN ON THESE PLANS HAS BEEN DETERMINED TO BE 127,600 SQUARE FEET.

David S. Weber — DAVID S. LIEBER, PROFESSIONAL ENGINEER, MARYLAND REGISTRATION No 12921 - C.E. — DATE 8/26/85

OWNER'S/DEVELOPER'S CERTIFICATION:

"I CERTIFY THAT ALL CLEARING, GRADING, CONSTRUCTION AND/OR DEVELOPEMENT WILL BE DONE PURSUANT 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."

Robert Unrath — ROBERT UNRATH, GFS REALTY, INC. — DATE 9/4/85

LEGEND

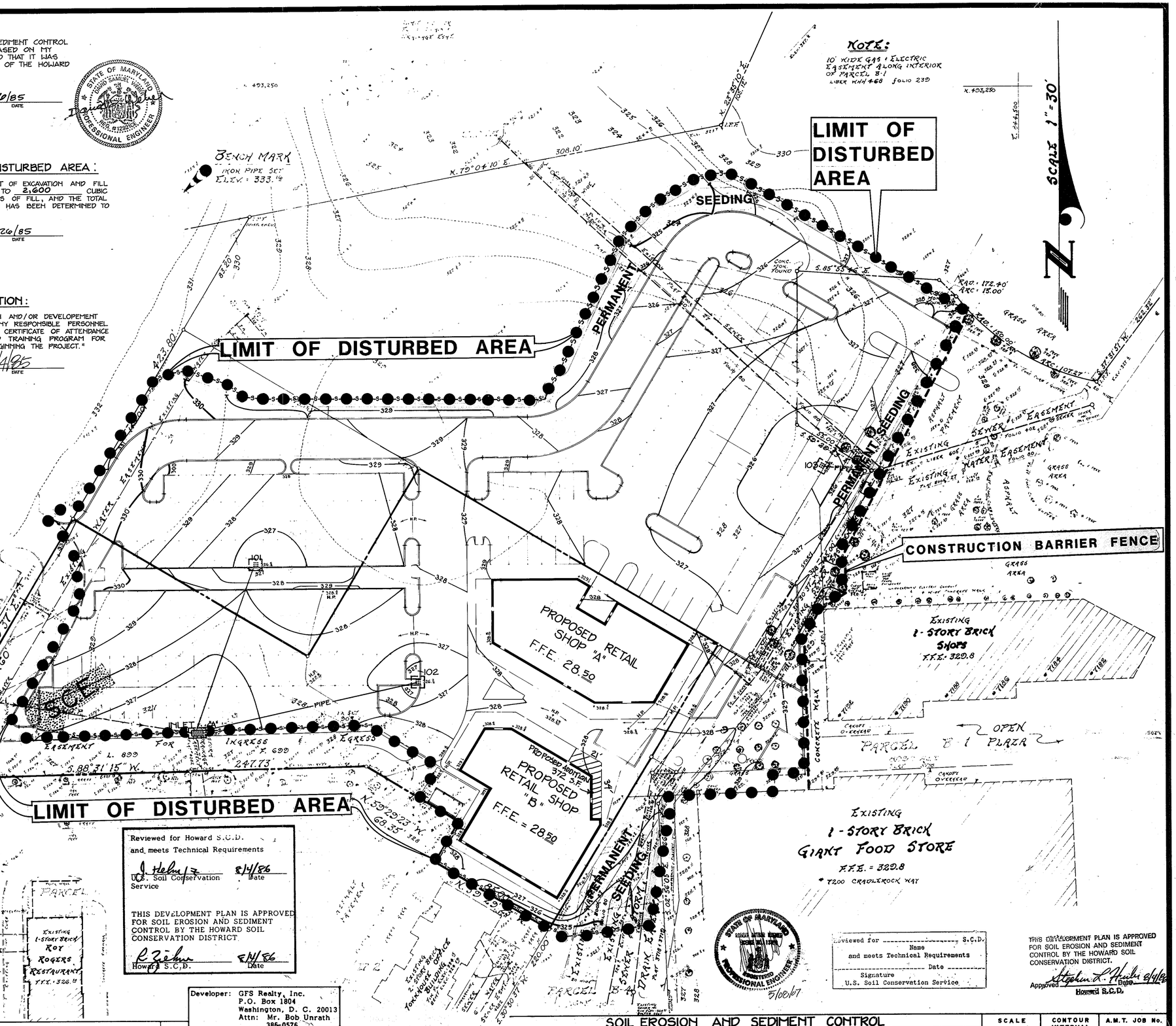
- LIMIT OF DISTURBED AREA
- STABILIZE CONSTRUCTION ENTRANCE
- DRAIN INLET PROTECTION
- SILT FENCE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER — DATE 8-8-86

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
DIRECTOR — DATE 8-12-86
CHIEF DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION — DATE 8-12-86

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR — DATE 8-7-86
CHIEF BUREAU OF ENGINEERING — DATE 8-6-86

APPROVED
PLANNING BOARD
OF HOWARD COUNTY
DATE 2-5-86



LEGEND:

EXISTING CONTOUR:	326
PROPOSED CONTOUR:	326
SPOT ELEV. EXISTING:	328x ±
SPOT ELEV. PROPOSED:	28x ±
EXISTING STORM DRAIN:	
EXISTING SAN. SEWER:	
EXISTING WATER MAIN:	
EXISTING CURB LINE:	
EXISTING PARKING SPACES:	(17)
PROP. PARKING SPACES:	(17)
PROP. CURB LINE:	
F.L.:	FLOW LINE
T.O.C.:	TOP OF CURB

2635' FROM LFF 902 TO CRADLEROCK WAY

Reviewed for Howard S.C.D. and meets Technical Requirements
J. Helm — U.S. Soil Conservation Service — Date 8/14/86

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
R. Ziehm — Howard S.C.D. — Date 8/14/86

STATE OF MARYLAND — ROBERT LOUIS BONNER — No. 17008 — REGISTERED PROFESSIONAL ENGINEER — 5/08/87

Reviewed for _____ S.C.D.
Name
and meets Technical Requirements
_____ Date _____
Signature
U.S. Soil Conservation Service

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
Approved Stephen L. Kuhn — Howard S.C.D. — Date 8/14/86

Developer: GFS Realty, Inc.
P.O. Box 1804
Washington, D. C. 20013
Attn: Mr. Bob Unrath
385-0576

SEE SHEET C-7 FOR DETAILS & NOTES

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PROJECT ENGINEER ALBERT F. EDWARDS
DES. MBT DRN. CHK. AFE

DATE	REVISION	BY
3-29-07	RED REVISION TO BLDG. B	
11-1-85	ADDED SILT FENCE	

SOIL EROSION AND SEDIMENT CONTROL
FOR DEVELOPMENT OF PARCEL B-3 AND PARTS OF LOTS 2-A, 3-A AND PARCEL B-1
2.9 ACRES — VILLAGE CENTER — PLAT 3718
(VILLAGE OF OWEN BROWN, SECTION 1, AREA 3
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SDP-86-72c