SHEET INDEX

NO. DESCRIPTION

1 TITLE SHEET

2 PLAN OF WATER AND SEWER MAINS

3 WATER AND SEWER PROFILES

WATER AND SEWER EXTENSIONS

FOOD LION

6th ELECTION DISTRICT HOWARD COUNTY, MARYLAND CONTRACT NO. 24-3629-D

	QUANTITIES	AS-BUILT					
ITEMS	ESTIMATED	QUANTITIES	TYPE	MANUFACTURER / SUPPLIER			
8" WATER	484 LF						
6" WATER	45 LF						
8" SEWER	283 LF						
6" SEWER	17 LF						
4" SEWER	47 LF						
SEMER MANHOLES	4 EA.						
&"X&"T	1 EA.						
8"X6"T	3 EA.						
8" VALVES	2 EA.						
6" VALVES	4 EA.						
FIRE HYDRANTS	2 EA.						
8"X8" TS&V	1 EA.						
8" 1/8 HB	1 EA.						
SEWER MANHOLE>6' DEEP	21 VF.						
	2 EA.						

BROWN ROAD TYPE OF BUILDING: GROCERY/FUTURE RETAIL W & S Code DRAINAGE AREA, County Use DORSEY Water No.<u>EOO</u> TREATMENT PLANT: Sewer No.<u>3460000</u> DORSEY RUN PUMPING STATION NUMBER OF W.H.C.: 2 Test Gradient: 700 NUMBER OF S.H.C.: 5 Zone: 550 VICINITY MAP

SCALE : 1"=600'

BENCH WARKS

BM# 1 HO.CO. KONUMENT 37GC ELEV. 331.93 N 555,250.79 E 1,370,946.36

BU#2 HO.CO. WONUMENT 37HC ELEY. 201.70 N 552,854.21 E 1,372,630.50

GENERAL NOTES

- 1. Approximate location of existing mains are shown. The contractor shall take all necessary precautions to protect existing mains and services and maintain uninterrupted supply. Any damage incurred shall be repaired immediately to the satisfaction of the Engineer at the Contractor's expense.
- 2. All horizontal controls are based on Maryland State Coordinates.
- 3. All vertical controls are based on U.S.G.S. data.
- 4. All pipe elevations shown of are invert elevations.
- 5. Clear all utilities by a minimum of 6". Clear all poles by 2'-0" minimum or tunnel as required. The owner has contacted the utility companies and has made arrangements for bracing of poles as shown on the drawings. In the event the contractor's work requires the bracing of additional poles, any cost incurred by the owner for bracing of additional poles or damages shall be deducted from money owed the contractor. The contractor shall coordinate with the utility companies to schedule the bracing of the poles.
- 6. For details not shown on the drawlings, and for materials and construction methods use Howard County Design Manual, Volume IV, Standard Specifications and Detail for Construction. (Latest Edition). The contractor shall have a copy of Volume IV on the job.
- 7. Where test pits have been made on existing utilities, they are noted by the symbol et at the location of the test pit. A note or notes containing the results of the test pit or pits is included on the drawings. Existing utilities in the vicinity of the proposed work for which test pits have not been dug shall be located by the contractor two weeks in advance of construction operations at his own expense.
- 8. Contractor shall notify the following utility companies or agencies at least five working days before starting work shown on these plans:

State Highway Administration

Baltimore Gas & Electric Co. Contractor Services

Baltimore Gas & Electric Co. Underground Damage Control

Miss Utility

Colonial Pipeline Co.

Bureau of Utilities, Howard County Department of Public Works

531-5533

850-4620

787-9068

1-800-257-7777

795-1390

313-4900

- 9. Trees and shrubs are to be protected from damage to maximum extent. Trees and shrubs located within the construction strip are not to be removed or damaged by the contractor.
- 10. Contractor shall remove trees, stumps and roots along line of excavation. Payment for such removal shall be included in the unit price bid for construction of the main.
- 11. All water mains to be D.I.P. Class 52 unless otherwise noted.
- 12. Tops of all water mains to have a minimum of 3-1/2' cover unless otherwise
- 13. Valves adjacent to tees shall be strapped to tees.
- 14. All fittings shail be buttressed or anchored with concrete in accordance with the Standard Details unless otherwise provided for on the drawings.
- 15. Fire hydrants shall be set to the bury line elevations shown on the drawings. All fire hydrants shall be restrained and buttressed with concrete in accordance with Standard Details. Soil around the fire hydrant shall be compacted in accordance with Section 1000 and 1005 of the Standard Specifications.
- 16. The contractor shall not operate any water main valves on the existing water system.
- 17. All water house connections shall be for inside meter setting unless otherwise noted on plans or in specifications.
- 18. All sewer mains shall be D.I.P. and P.V.C. unless otherwise noted.
- 19. All manholes shall be 4'-0" inside diameter unless otherwise noted.
- 20. Force mains shall be D.I.P. only.
- 21. Manholes shown with 12" and 16" walls are for brick manholes only.
- 22. Manholes designated W.T. in plan and profile shall have watertight frame and covers, Standard Detail 65.52. Where watertight manhole frame and cover is used, set top of frame 1"-6" above finished grade unless otherwise noted on the drawings.
- 23. House(s) with the symbol "C.N.S." indicates that cellar cannot be served.
- 24. Manholes can be either brick or precast concrete structures.
- 25. Contractor is solely responsible for construction means, methods, techniques, sequences, procedures, and safety precautions and programs.
- 26. The fire hydrant shall be installed as per standard detail W.1.11.
- 27. Fire hydrants will be located 3' FROM BACK OF CURB unless otherwise noted.
 28. For sprinkler systems, all townhomes or multi-family dwelling units
- should have a minimum of 1" connection with a 3/4" meter.

 29. The contractor shall notify the Bureau of Highways, Howard County, at
- (410) 313-7450 at least five (5) working days before any open cut of any County road or boring\jacking operation in County roads for laying water\sewer mains or house connections. The approval of these drawings will constitute compliance with DPW requirements per Section 18.114(a) of the Howard County Code.

FOOD LION - MD. ROUTE 108

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

219 of the Specifications and as shown on

meets technical requirements.

Review for Howard Soil Conservation District and

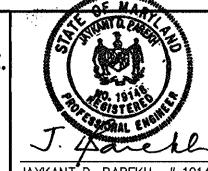
sediment control by the Howard Soil Conservation

SDP-97-106

DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND

SURVEY AND DRAFTING DIVISION

RIEMER MUEGGE & ASSOCIATES, INC
ENGINEERING • ENVIRONMENTAL SERVICES • PLANNING • SURVEYING
8818 Centre Park Drive, Columbia, Maryland 21045
tel 410.997.8900 fax 410.997.9282



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TITLE SHEET

FOOD LION
6TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN

> SHEET I OF 3

Sel-10-1-97
OF UTILITIES DATE

CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

TEM 10.997.8900 fax 410.997.9282

OF UTILITIES DATE: 9.25-97
BY NO. REVISION DATE

CHICAGO SCALE MAP NO. 37
BLOCK NO. 20

TABLE 10.997.8900 fax 410.997.9282

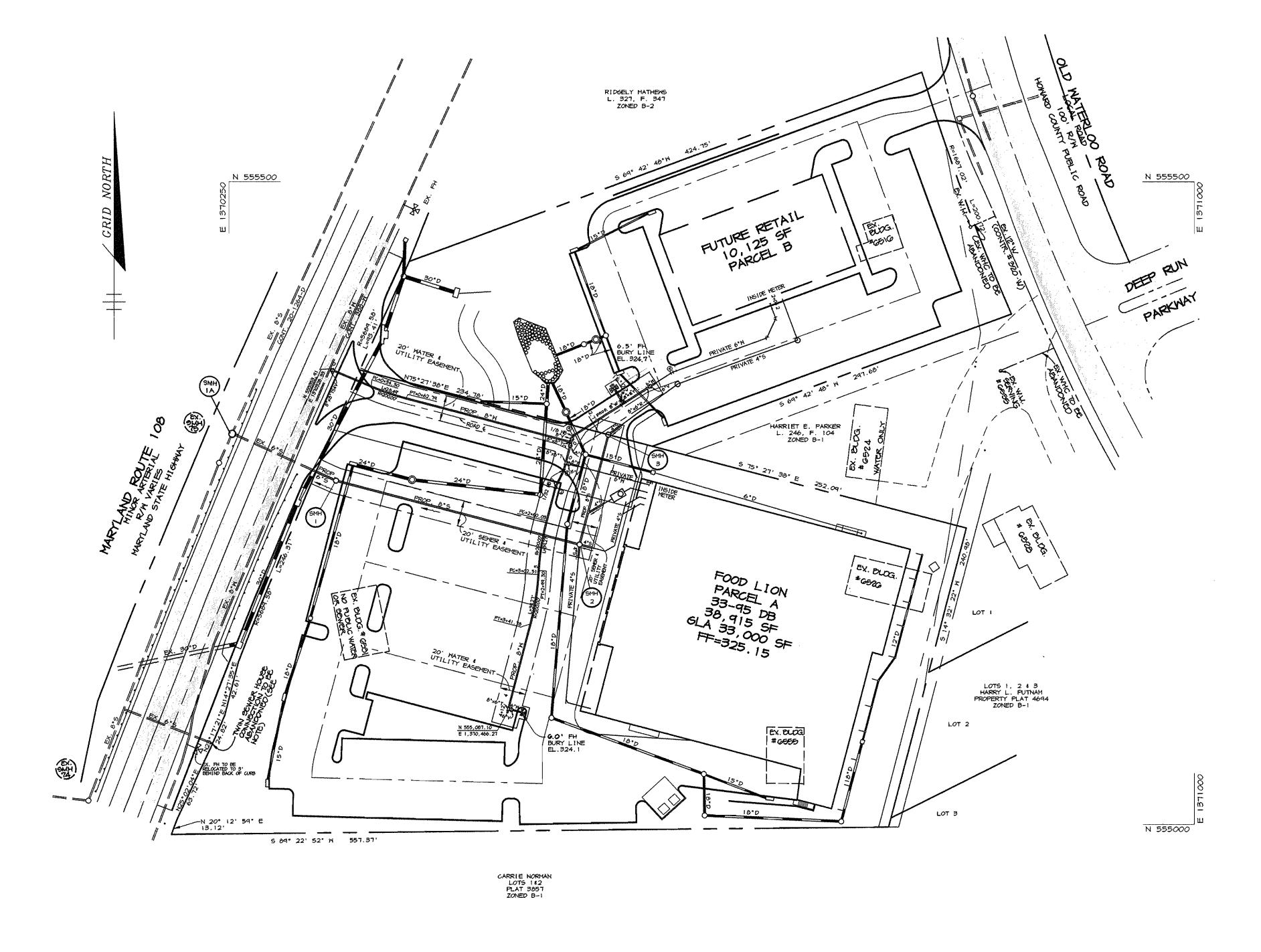
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HORIZONTAL BEND COORDINATES

- ① N 555,275.57 E 1,370,510.20
- ② N 555,262.50 E 1,370,503.83
- ③ N 555,302.02 E 1,370,517.31
- 4 N 555,351.31 E 1,370,594.38

SHC ABANDONMENT FOR #6585

1. CONTACT BUREAU OF UTILITIES.
2. DISCONNECT TWIN SHC AT MAIN AND PLUG AT MAIN.

WHC ABANDONMENT FOR #6516 AND #6555

- 1. CONTACT BUREAU OF UTILITIES.
- 2. SEVER AT CORPORATION COCK AND ENCASE IN CONCRETE AT MAIN FOR # G51G.
- 3. FOR GBB5, DETERMINE HOW METER SERVES EX. HOUSES #GB24 AND GB2G PRIOR TO DISCONNECTION.

FOOD LION - MD. ROUTE 108

DEPARTMENT OF PUBLIC WORKS ... HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND

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PLAN OF WATER & SEWER MAINS

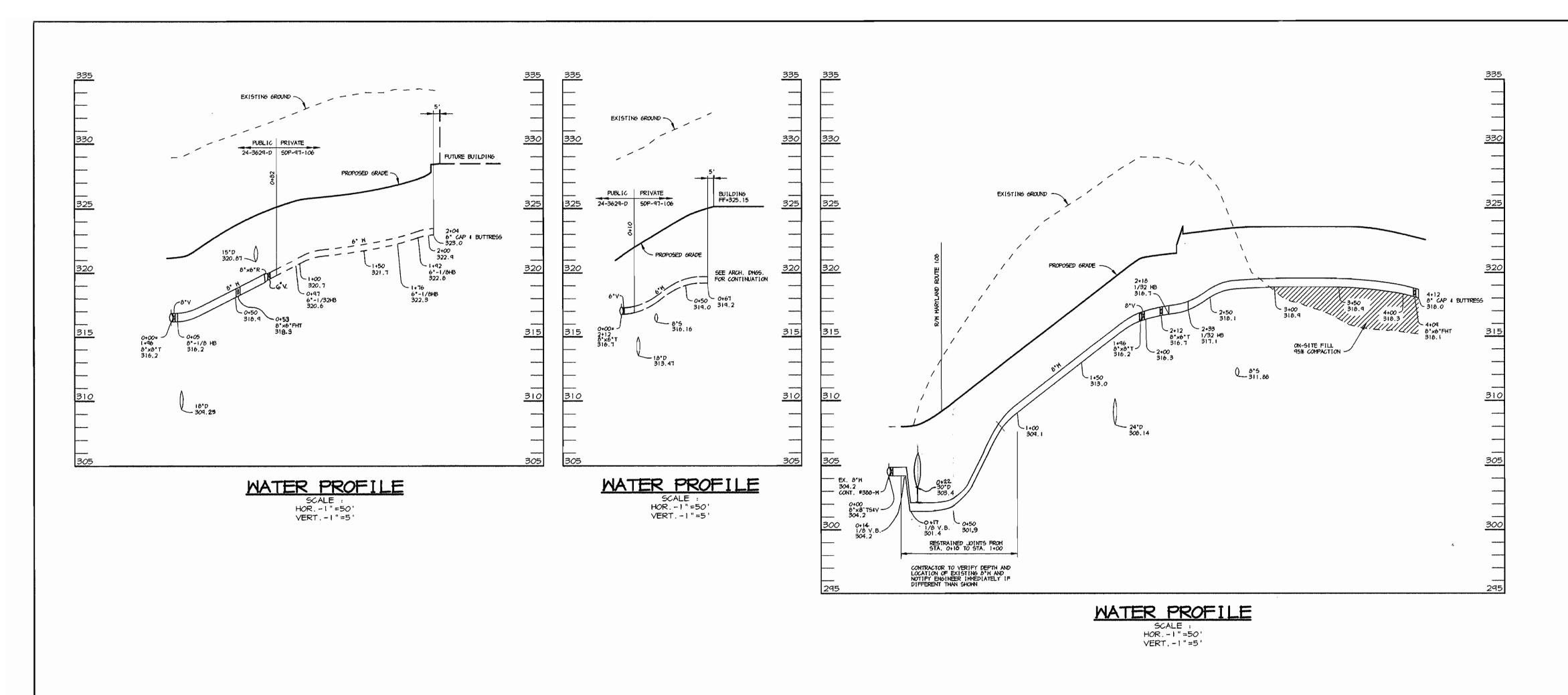
600' SCALE MAP NO. _____37____ BLOCK NO. _____20__

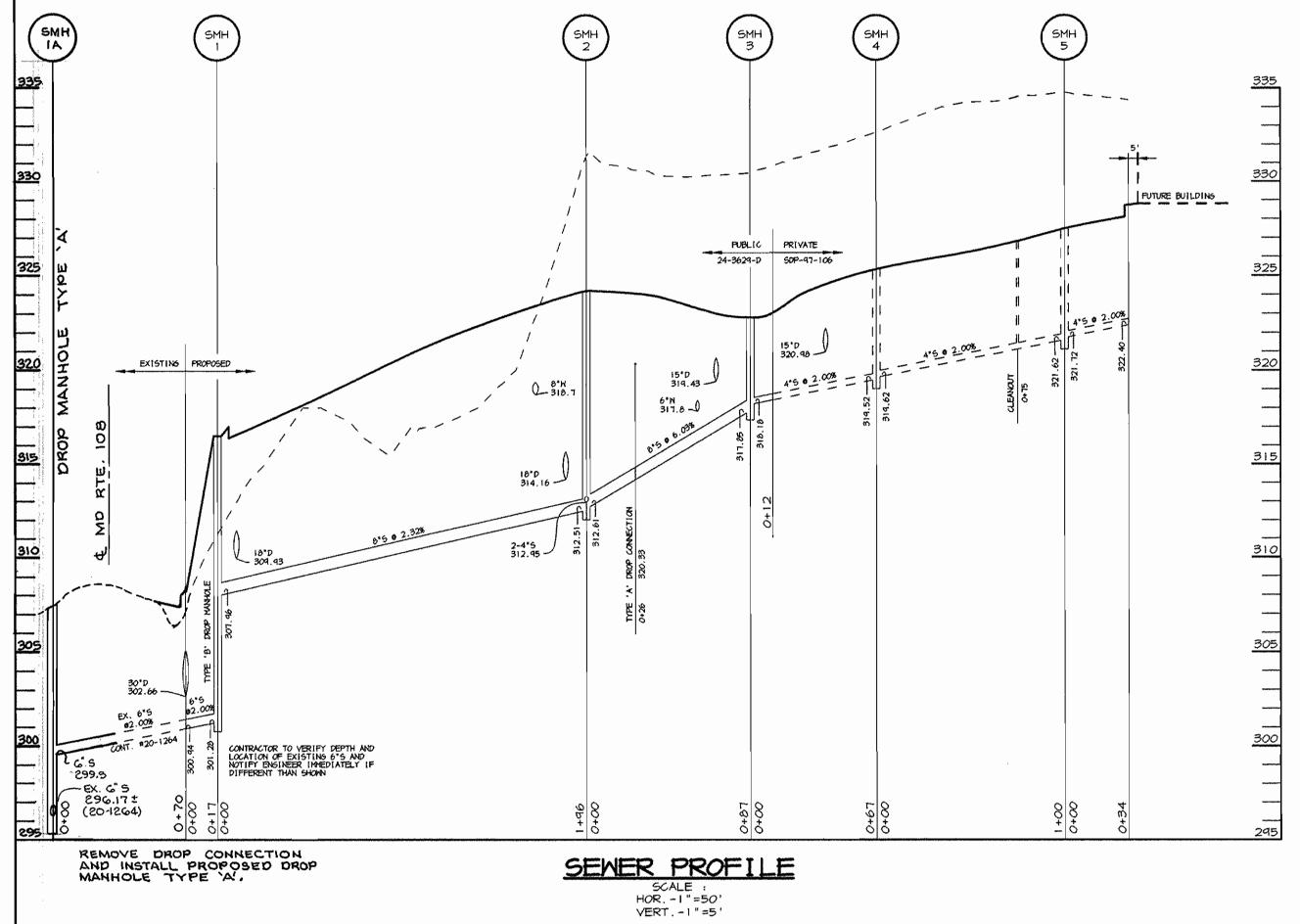
FOOD LION
6TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
CONTRACT 24-3629-D

1"=50'

SHEET 2 OF 3

SCALE:





STRUCTURE SCHEDULE

STRUCTURE	TYPE	Loca	ATION	INV. IN	INV. OUT	TOP		REMARKS
SMH-1	4' MH	N 555,267.68	E 1,370,333.21	307.96	301.28	310.5	носо 5ТО.	DETAIL 6 5.12
SMH-2	4' MH	N 555,217.89	E 1,370,522.46	312.95(2-4") 312.61(8")	312.51	324.2	HOCO STD.	DETAIL 6 5.12
SMH-3	4' MH	N 555,303.12	E 1,370,544.88	318.18	317.85	322.8	носо втр.	DETAIL 6 5.12
SMH-IA	4' MH	N. 555, 304	E 1, 370, 613	299.50	296.17	307. 2	11	11

FOOD LION - MD. ROUTE 108

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

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FOOD LION
6TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
CONTRACT 24-3629-D

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