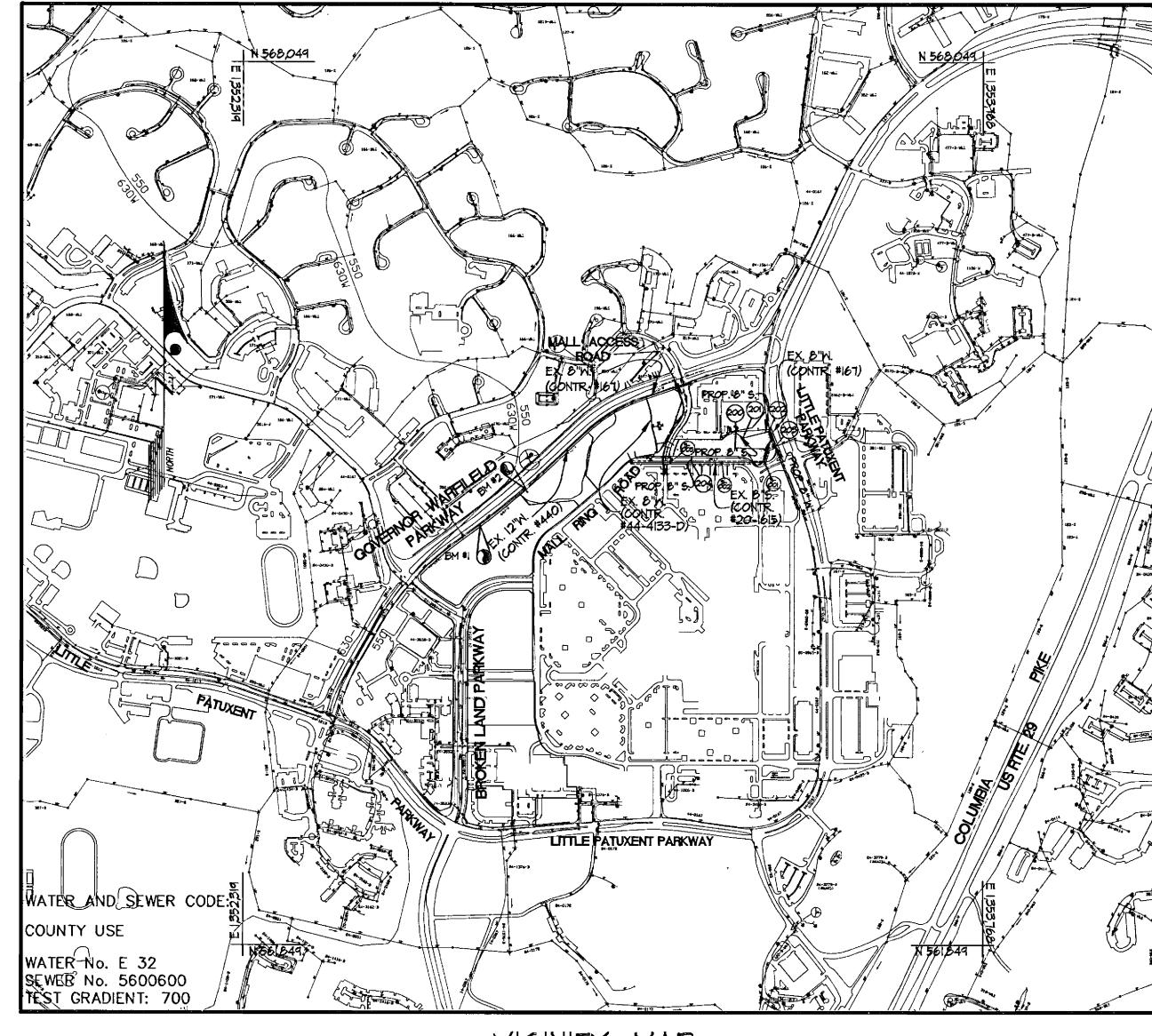
	QU	ANTITIES		
	QUANTITIES ESTIMATED	AS-BUILT		
ITEMS		QUANTITIES	TYPE	MANUFACTURER/ SUPPLIER
12" x &" T.S.€V.	I EA.	1 EACH	C 207	FORD
8" W	42 L.F.	42 L.F.	C 151	U.S. PIPE & FOUNDRY
8" CAP	I EA.	IEACH	C 153	TYLER
8" S.	353 L.F.	3 Ø5 L.F.	SPR 35	J.M. MANUFACTURING
6" S.	8 L.F.	IOL.F.		J.M. MANUFACTURING
4" S.	40 L.F.	42 L.F.		J. M. MANUFACTURING
6" Stopper	I EA.	IEACH	SDR 35	HARCO
4" Stopper	I EA.	IEACH	SDR35	HARCO
4' MANHOLES	5 EA.	5 EACH	CONC. PRECAST	ATLANTIC CONC. PRODUCTS,
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NAME OF UTILITY	CONTRACTOR:			
			SURVEY AND DRAFTING DIV.	CHECKBOX:.  AS-BUILT DATE: 3.04.1

BENCH MARKS

BM #1 (GLW TRAY, 9001) TOP OF REBAR & CAP IN MEDIAN OF GOV. WARFIELD PARKWAY, 250'+/- OF INTX. OF TWIN RIVERS ROAD. ELEV.= 431.22

BM #2 (GLW TRAV. 9002) TOP OF REBAR & CAP EAST SIDE OF GOV. WARFIELD PARKWAY BEHIND ASPHALT PATH, 1000'+/- EAST OF INTX. OF TWIN RIVERS ROAD. ELEV.= 404.76



VICINITY MAP SCALE: 1"=600'

CONTRACT No. 24-4135-D COLUMBIA TOWN CENTER LOT 39 HOWARD COUNTY, MARYLAND DEPARTMENT OF PUBLIC WORKS

COMMERCIAL TYPE OF BUILDING NUMBER OF UNITS NUMBER OF S.H.C.'s 2 NUMBER OF W.H.C.'s \_\_\_\_ LITTLE PATUXENT DRAINAGE AREA LITTLE PATUXENT WATER TREATMENT PLANT RECLAMATION PLANT

## GENERAL NOTES

- I. Approximate locations 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 NAVD 88. 4. All pipe elevations shown are invert elevations unless otherwise noted
- 5. Clear all utilities by a minimum of 12". Clear all poles by 5'-0" minimum or tunnel as required unless otherwise noted. 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 the bracing of additional poles or damages shall be deducted from monies 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 drawlngs, and for materials and construction methods use Howard County Design Manual, Volume IV, Standard Specifications and Details 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 of at the locations 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. The contractor shall notify the following utility companies or agencies at least (5) working days before starting work shown on these plans:

BGE (Contractor Services) BGE (Under Ground Damage Control) Bureau of Utilities Colonial Pipeline Co. State Highway Administration

1*-800*-252-11**3**3 410-850-4620 410-787-9068 410-313-4900 410-795-1390 1-800-257-7777 410-531-5533 1-800-743-0033/410-224-9210

9. Trees and shrubs are to be protected from damage to maximum extent. Trees and shrubs located within the construction strip are not be

- removed or damaged by the contractor.

  10. The 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. II. The contractor shall notify the Bureau of Highways, Howard County, at 410-313-2450 at least five (5) working days before any open cutting or boring/jacking of any County road or boring/jacking operation on County roads for laying water/sewer mains or house connections. The approval of these drawings will constitute compliance with DPW requirement per Section 18.114(a) of the Howard County Code.

## PART II - WATER

- I. All water mains to be D.I.P. Class 52 unless otherwise noted. 2. Tops of all water mains shall have a minimum of 3'-6" cover unless
- otherwise noted. 3. Valves adjacent to tees shall be strapped to tees.
- 4. All fittings shall be buttressed or anchored with concrete in accordance
- with the Standard Details unless otherwise provided for on the drawings.

  5. Fire hydrants shall be set to the bury line elevations shown on the drawings. All fire hydrants shall be installed in accordance with Standard Details. Soil around the fire hydrant shall be compacted in accordance with Section 1000 and 1005 of the Standard Specifications.
  - 6. The contractor shall not operate any water main valves on the existing water system.

## PART III - SEWER

- 1. All sewer mains shall be D.I.P. or P.V.C. unless otherwise noted. 2. All manholes shall be 4'-0" inside diameter unless otherwise noted.
- 3. Force mains shall be D.I.P. only.
- Force mains shall be D.I.P. only.
   Manholes shown with 12" and 16" walls are for brick manholes only.
   Manholes designated W.T. In plan and profile shall have watertight frame and cover, Standard Detail 65.52. Where watertight manhole frames and covers are used, set top of frame 1'-6" above finished grade unless otherwise noted on the drawings.
   House(s) with the symbol "C.N.S." indicates that the cellar cannot be served.

AS BUILT DATE: MARCH 04,2005

> GLW FILE No. MSI.dwg

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

CONSERVATION SERVICE

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

Sediment Control Measures will be implemented in

for Sediment & Erosion Control.

REQUIREMENT.

DISTRICT AND MEETS TECHNICAL

accordance with Section 219 of the Specifications & with Mass Grading Plans GP 03-28; Drawings

REVIEWED FOR HOWARD SOIL CONSERVATION

DEPARTMENT OF PLANNING AND ZONING

HOWARD COUNTY, MARYLAND

GLWGUTSCHICK LITTLE &WEBER, P.A. CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS 3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK

BURTONSVILLE, MARYLAND 20866
TEL: 301-421-4024 BALT: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4186

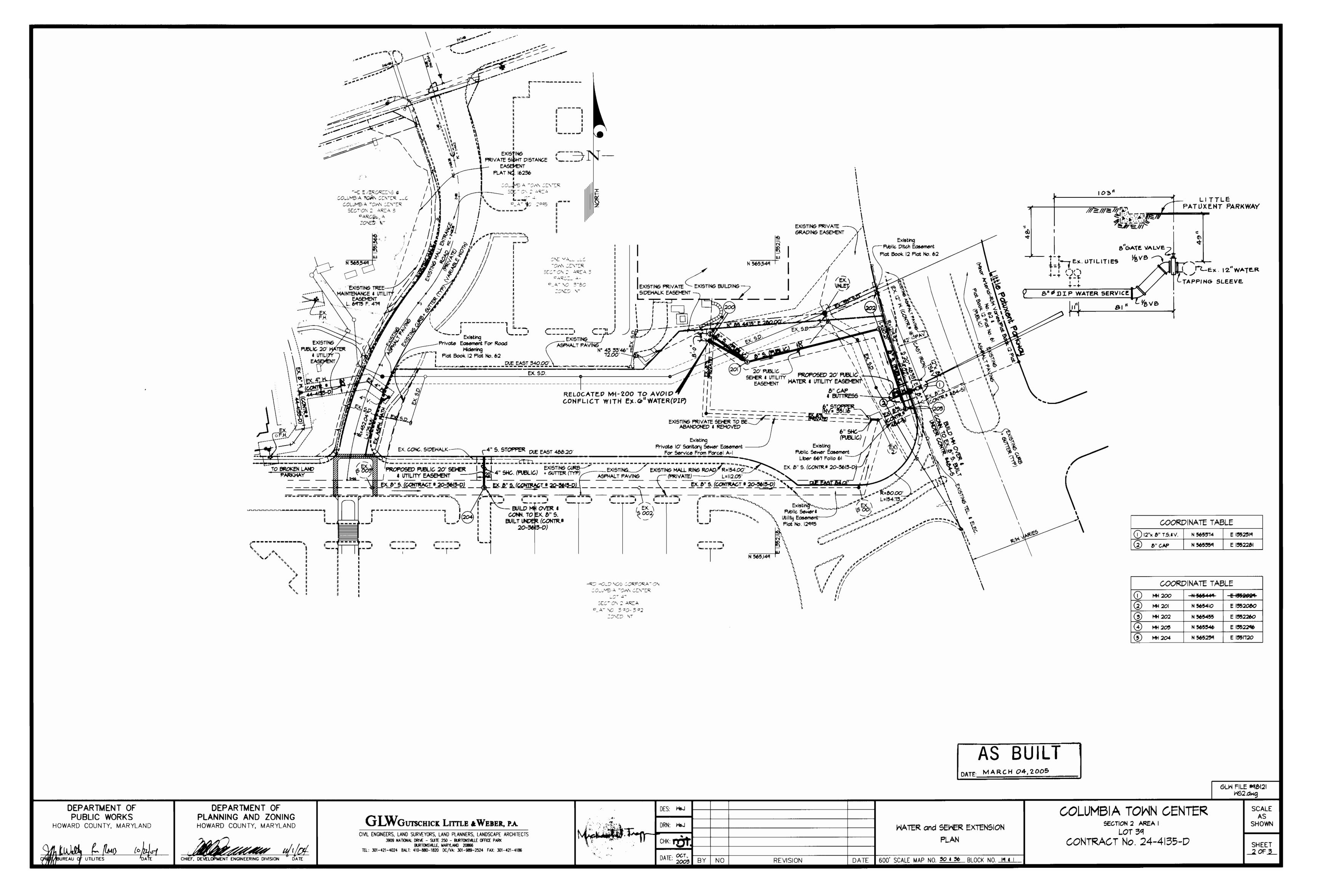


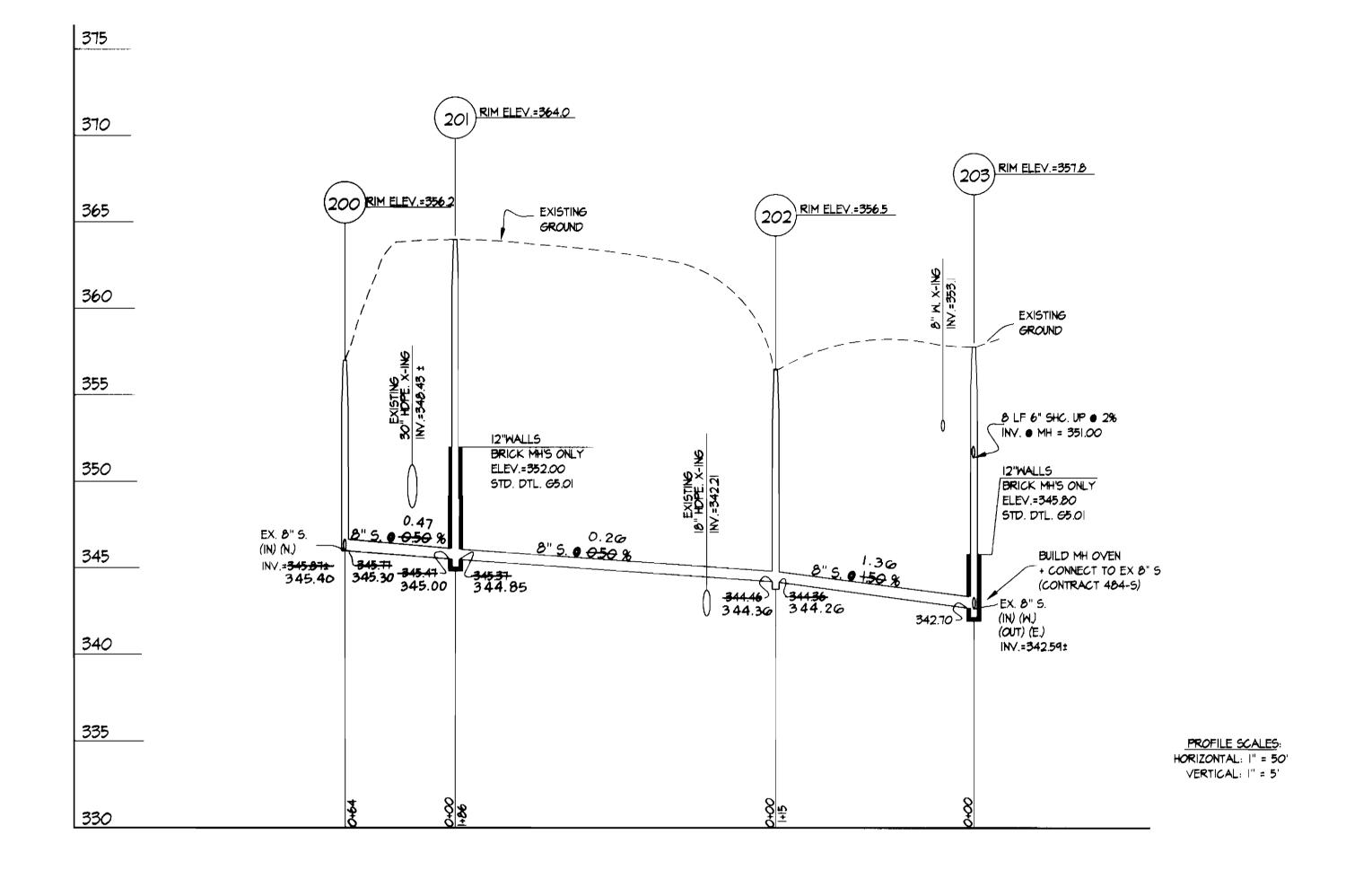
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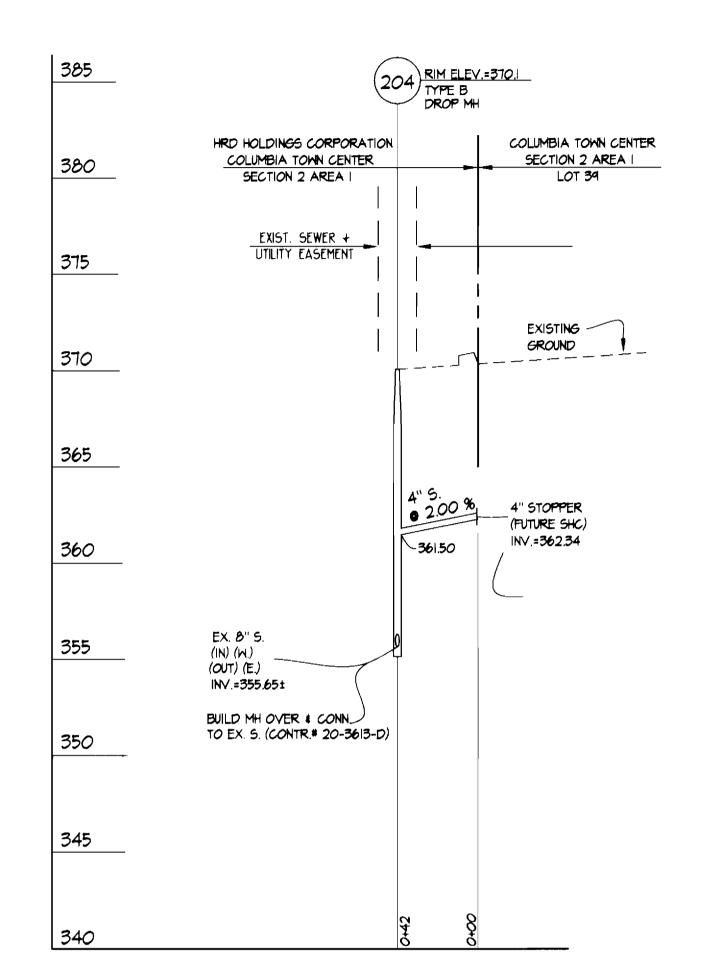
TITLE SHEET SCALE: AS SHOWN COLUMBIA TOWN CENTER SECTION 2 AREA I LOT 39 CONTRACT No. 24-4135-D

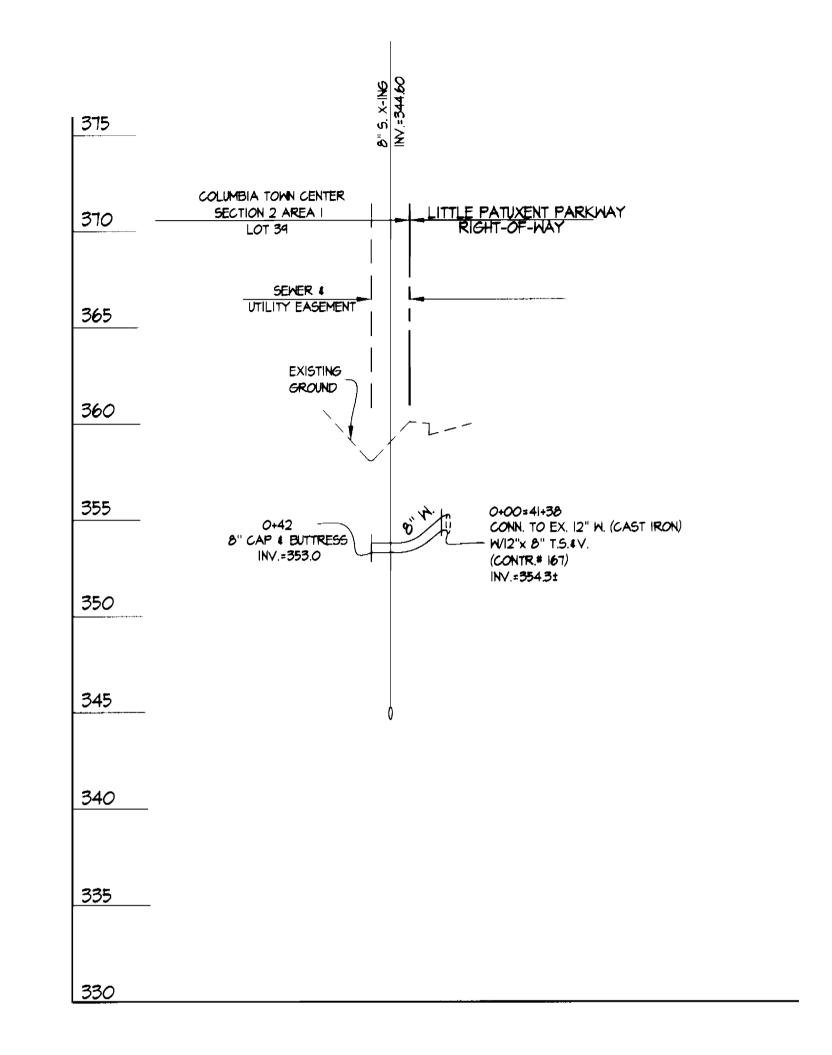
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AS BUILT DATE MARCH 04,2005

GLW FILE #98121 NG3.dwg

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

BUREAU/OF UTILITIES

DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND

GLW GUTSCHICK LITTLE & WEBER, P.A. CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS
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TEL: 301-421-4024 BALT: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4186 ! Sechwill Try

DES: MeJ CHK: 101 DATE: 2003 BY NO DATE 600' SCALE MAP NO. 30 4 36 BLOCK NO. 19 4 1 REVISION

WATER and SEWER EXTENSION PROFILES

COLUMBIA TOWN CENTER SECTION 2 AREA I LOT 39 CONTRACT No. 24-4135-D

SCALE SHOWN SHEET <u>3</u> OF <u>3</u>