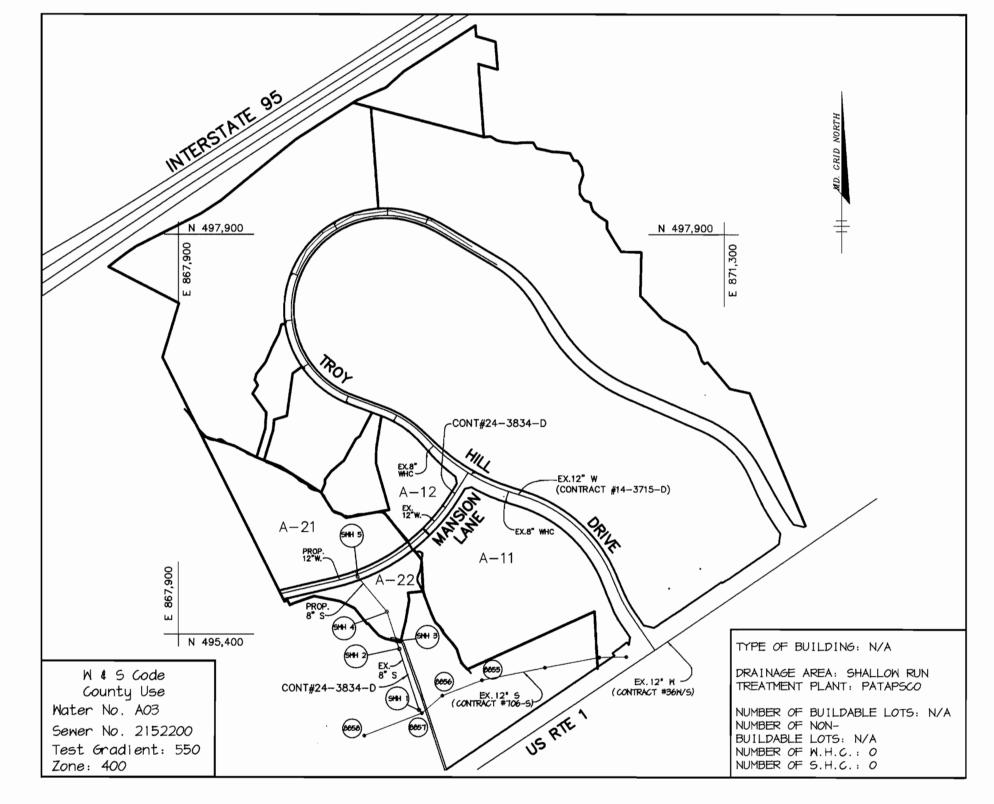
WATER & SEWER EXTENSION

TROY HILL CORPORATE CENTER PARCELS A-21 AND A-22

IST EIRCTION DISTRICT HOWARD COUNTY, MARYLAND CONTRACT NO. 14-3873-D



VICINITY MAP SCALE : 1"=600'

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
- 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 drawings, 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 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 Baltimoré 6as & Electric Co. Contractor Services Baltimore 6as & Electric Co. Underground Damage Control Miss Utility Colonial Pipeline Co.

787-9068 1-800-257-7777 795-1390 Bureau of Utilities, Howard County Department of Public Works 313-4900

531-5533

850-4620

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 shall 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 accórdance with Stándard Details. Soil around the fire hydrant shall be compacted in accordance with Section 1000 and 1005 of the Standard
- 16. The contractor shall not operate any water main valves on the existing
- 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 i"-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\lacking 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.
- 30. Howard County DPW is hereby granted permission to access private lots shown on these plans in order to maintain public water and sewer house connections at the curb stops and/or cleanouts.

This plan is approved for soil erosion and sediment control by the Howard Soil Conservation

Sediment control measures for this contract

will be implemented in accordance with Section

219 of the Specifications and as shown on F-00-130

Review for Howard Soil Conservation District and

QUANTITIES

QUANTITIES

QUANTITIES

ESTIMATED

990 LF

48 LF

3 EA.

2 EA.

3 EA.

517 LF

3 EA.

ITEMS

12" WATER

6" WATER

FIRE HYDRANTS

SEWER MANHOLES

NAME OF UTILITY CONTRACTOR

meets technical requirements

12" VALVES

6" VALVES

8" SEWER

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND

AS-BUILT

CHECKBOX

AS-BUILT DATE

SURVEY AND DRAFTING DIVISION

MANUFACTURER /

SUPPLIER

IRIEMER MUEGGE & ASSOCIATES, INC. ENGINEERING ● ENVIRONMENTAL SERVICES ● PLANNING ● SURVEYING 8818 Centre Park Drive, Columbia, Maryland 21045

tel 410.997.8900 fax 410.997.9282

98357 / WS1B.DWG

ARTHUR E. MUEGGE #870

DES: KCB DRN: KCB CHK: CJR

REVISION

TITLE SHEET

BLOCK NO. 17 & 18

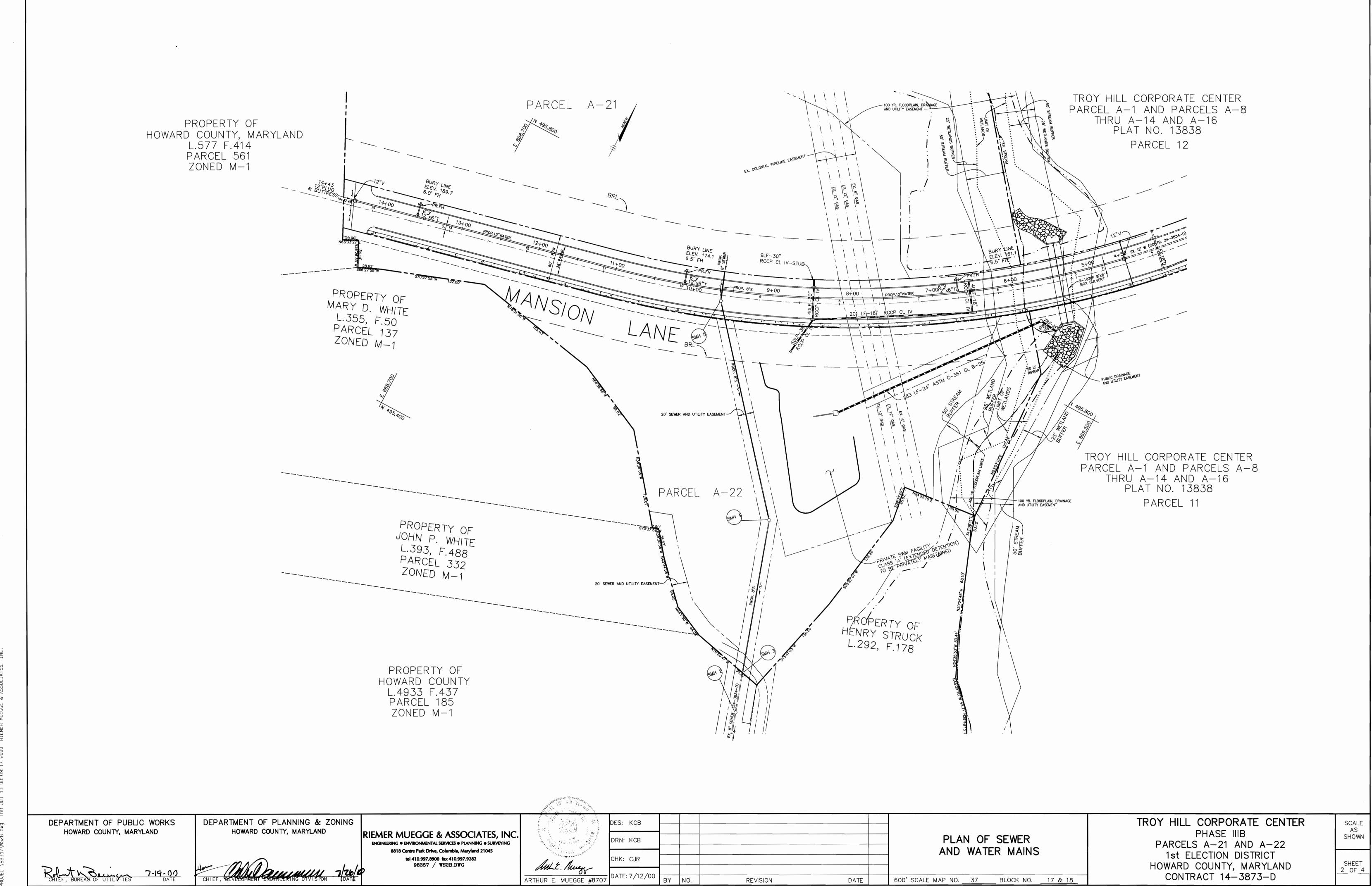
600' SCALE MAP NO. 37

DATE

TROY HILL CORPORATE CENTER PHASE IIIB PARCELS A-21 AND A-22 1st ELECTION DISTRICT HOWARD COUNTY, MARYLAND CONTRACT 14-3873-D

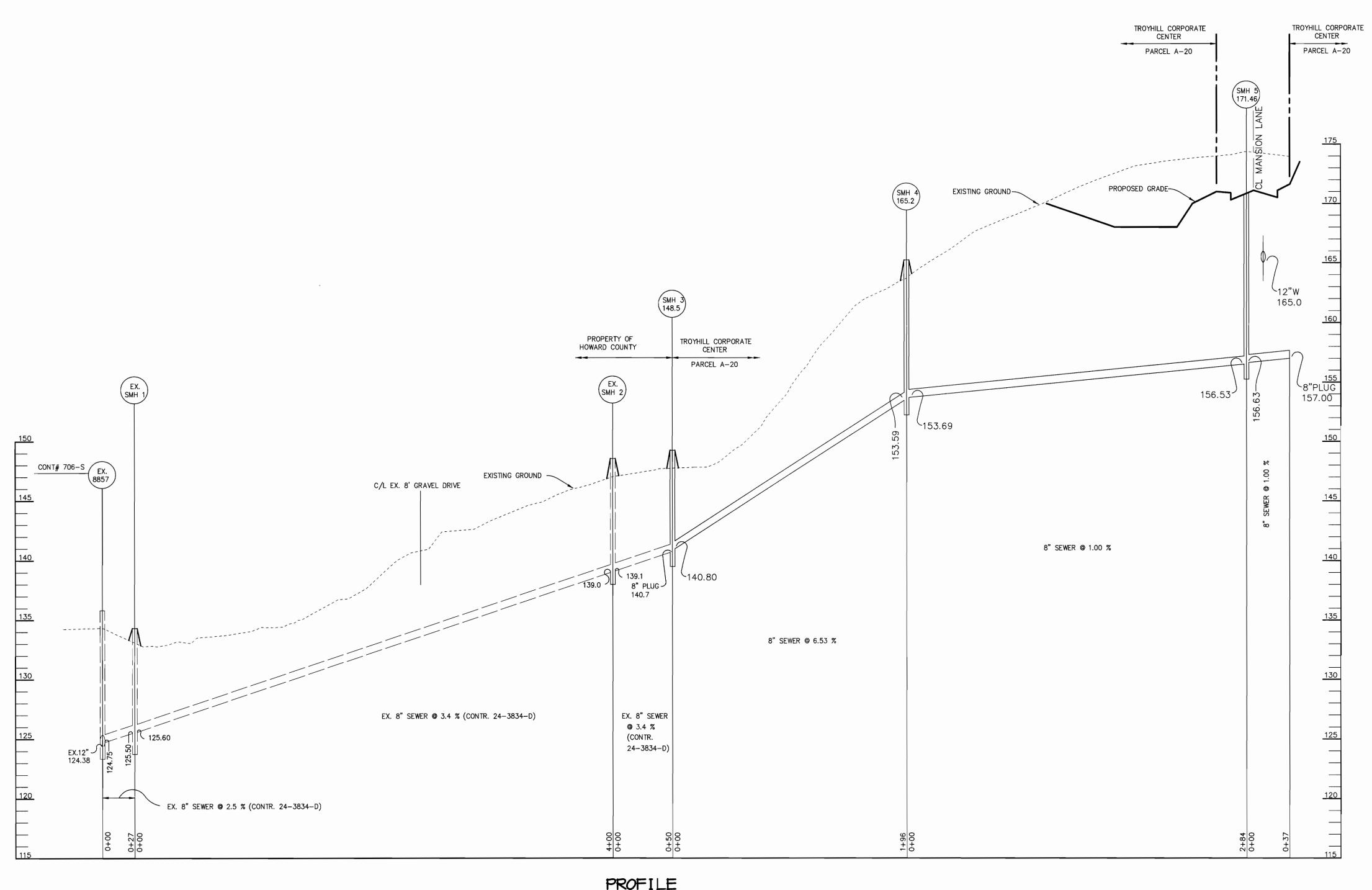
SCALE AS SHOWN

SHEET __ OF _4



STRUCTURE	TYPE	LOCATION		INV. IN	INV. OUT	TOP	REMARKS				
5MH-3	STD. MH	* N 495,311	E 869,263	140.80 (8")	140.70 (8")	148.5	HOCO STD. DETAIL 6 5.12				
SMH-4	STD. MH	* N 495,497	E 869,202	153.69 (8")	153.59 (8")	165.2	HOCO STD. DETAIL 6 5.12				
SMH-5	STD. MH	* N 495,713	E 869,019	156.63 (8")	156.53 (8")	171.46	HOCO STD. DETAIL 6 5.12				

NOTES: * LOCATION OF MANHOLES IS AT CENTER OF TOP COVER.



PROFILE

SCALE:

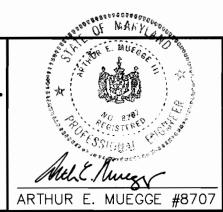
HOR.-1"=50'

VERT.-1"=5'

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND

RIEMER MUEGGE & ASSOCIATES, INC. ENGINEERING ● ENVIRONMENTAL SERVICES ● PLANNING ● SURVEYING 8818 Centre Park Drive, Columbia, Maryland 21045 tel 410.997.8900 fax 410.997.9282 98357 / WS4B.DWG



	DES: KCB					
	DRN: KCB	-				
	CHK: CJR					
	DATE 7 (10 (00					
7	DATE: 7/12/00	BY	NO.	REVISION	DATE	

TROY HILL CORPORATE CENTER PHASE IIIB PARCELS A-21 AND A-22 1st ELECTION DISTRICT HOWARD COUNTY, MARYLAND

CONTRACT 14-3873-D

SCALE AS SHOWN SHEET _4_ OF _4_

PROFILE OF A SEWER MAIN

17 & 18

600' SCALE MAP NO. _____37 BLOCK NO.