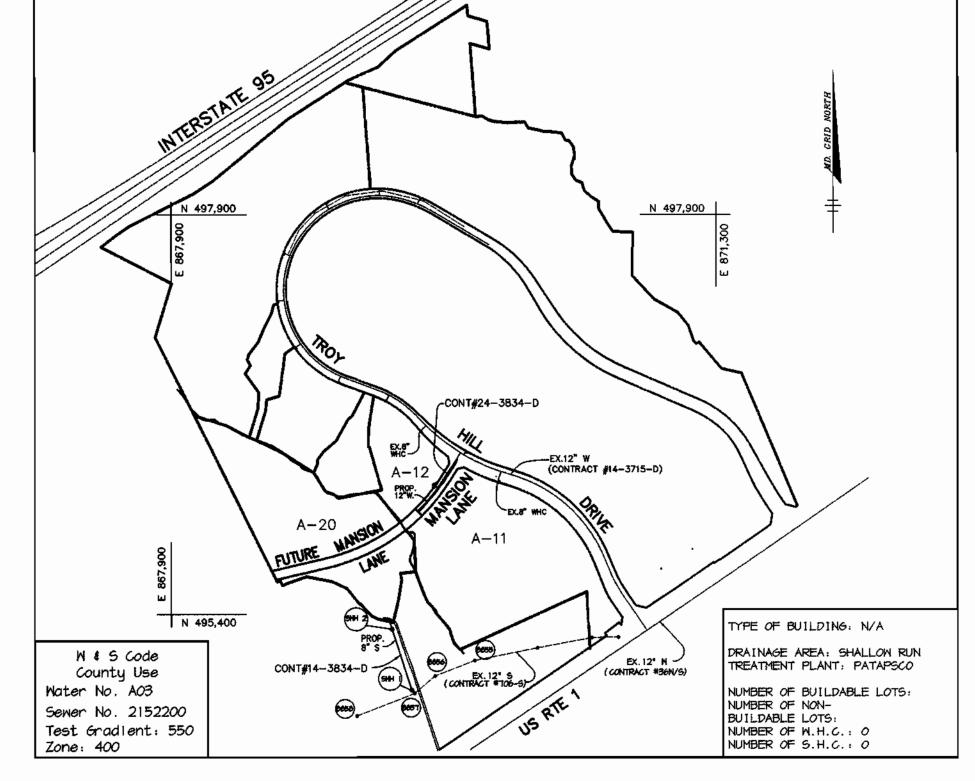
SHEET INDEX DESCRIPTION 1 TITLE SHEET 2 PLAN AND PROFILE WATER MAIN 2 | PLAN AND PROFILE SANITARY SEWER

WATER & SEWER EXTENSION

TROY HILL CORPORATE CENTER PHASE IIIA

1st ELECTION DISTRICT HOWARD COUNTY, MARYLAND CONTRACT NO. 14-3834-D



VICINITY MAP SCALE : 1"=600"

QUANTITIES								
QUANTITIES	_	AS-BUILT						
ESTIMATED	QUANTITIES	TYPE	MANUFACTURER / SUPPLIER					
340 LF								
16 LF								
1 EA.								
1 EA.								
480 LF								
2 EA.								
	QUANTITIES ESTIMATED 340 LF 16 LF 1 EA. 1 EA. 480 LF	QUANTITIES ESTIMATED QUANTITIES 340 LF 16 LF 1 EA. 1 EA. 480 LF	QUANTITIES ESTIMATED QUANTITIES TYPE 340 LF 16 LF 1 EA. 1 EA. 480 LF					

NAME OF UTILITY CONTRACTOR

will be implemented in accordance with Section 219 of the Specifications and as shown on F-00-103

CHECKBOX AS-BUILT DATE SURVEY AND DRAFTING DIVISION

Review for Howard Soil Conservation District and

sediment control by the Howard Soil Conservation

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND

RIEMER MUEGGE & ASSOCIATES, INC. 8818 Centre Park Drive, Columbia, Maryland 21045



ES: KCB RN: KCB 'HK: CJR BY NO. REVISION DATE

TITLE SHEET

600' SCALE MAP NO. _____37 ___ BLOCK NO. ____18

TROY HILL CORPORATE CENTER PHASE III A MANSION?LANE 1st ELECTION DISTRICT HOWARD COUNTY, MARYLAND

SCALE

AS

SHOWN

SHEET

<u>1</u> OF <u>3</u>

Sediment control measures for this contract

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 🔎 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 memory owner the contractor. The contractor shall seemal to the latter with the utility companies to according to the poles of the poles. coordinate with the utility companies to schedule the bracing of the poles

GENERAL NOTES

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 dua shall be located by the contractor two weeks in advance of construction operations at his own expense.

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 850-4620 Baltimore Gas & Electric Co. Underground Damage Control Miss Utility Colonial Pipeline Co.

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

531*-*5533

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 mater 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. Soll around the fire hydrant shall be compacted in accordance with Section 1000 and 1005 of the Standard

16. The contractor shall not operate any mater 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 i"-6" above finished grade unless otherwise

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.

Contractor is solely responsible for construction means, methods, techniques, sequences, procedurés, 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.

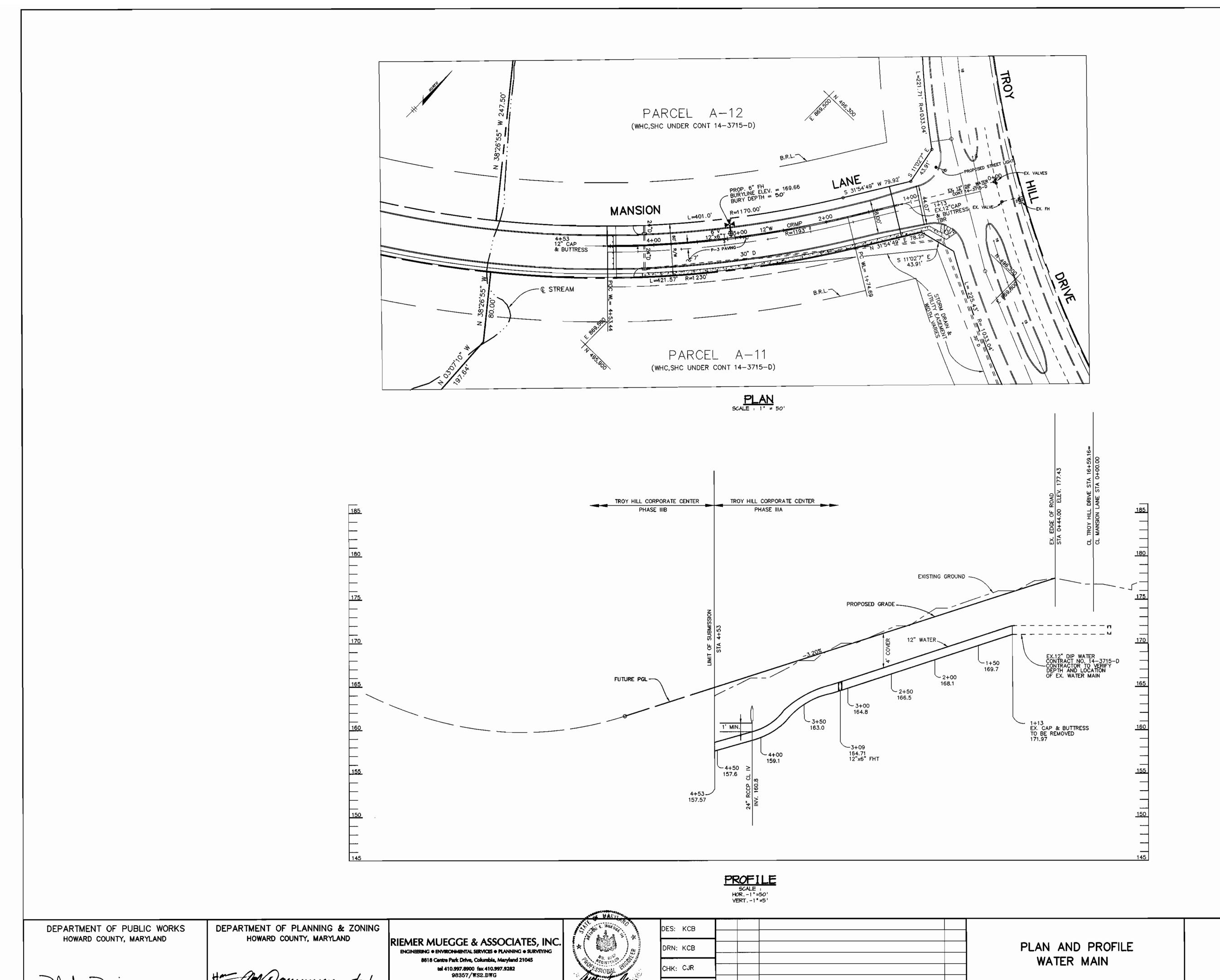
28. For sprinkler systems, all townhomes or multi-family dwelling units should have a minimum of 1* connection with a 3/4" meter.

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.

30. Howard County DPW is hereby granted permission to access private lots shown on these plans in order to maintain public mater and semer house connections at the curb stops and/or cleanouts.

PARCELS A-1), A-12 & A-20 CONTRACT 14-3834-D

ENGINEERING ◆ ENVIRONMENTAL SERVICES ◆ PLANNING ◆ SURVEYING tel 410.997.8900 fax 410.997.9282 98357\WS1.DWG



TROY HILL CORPORATE CENTER

PHASE 111 A

PARCELS A-11, A-12 & A-20

MANSION LANE

1st ELECTION DISTRICT

HOWARD COUNTY, MARYLAND

CONTRACT 14-3834-D

600' SCALE MAP NO. 37 BLOCK NO.

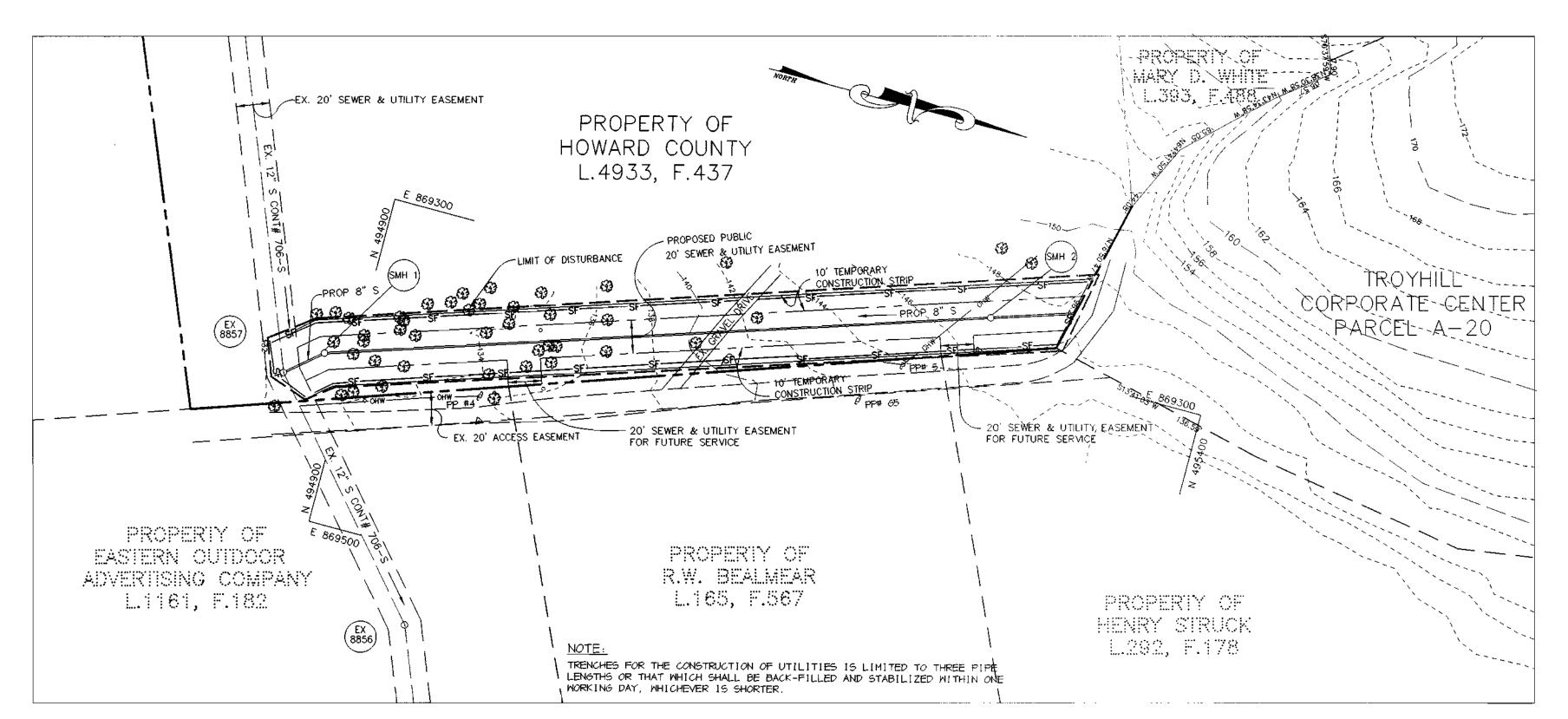
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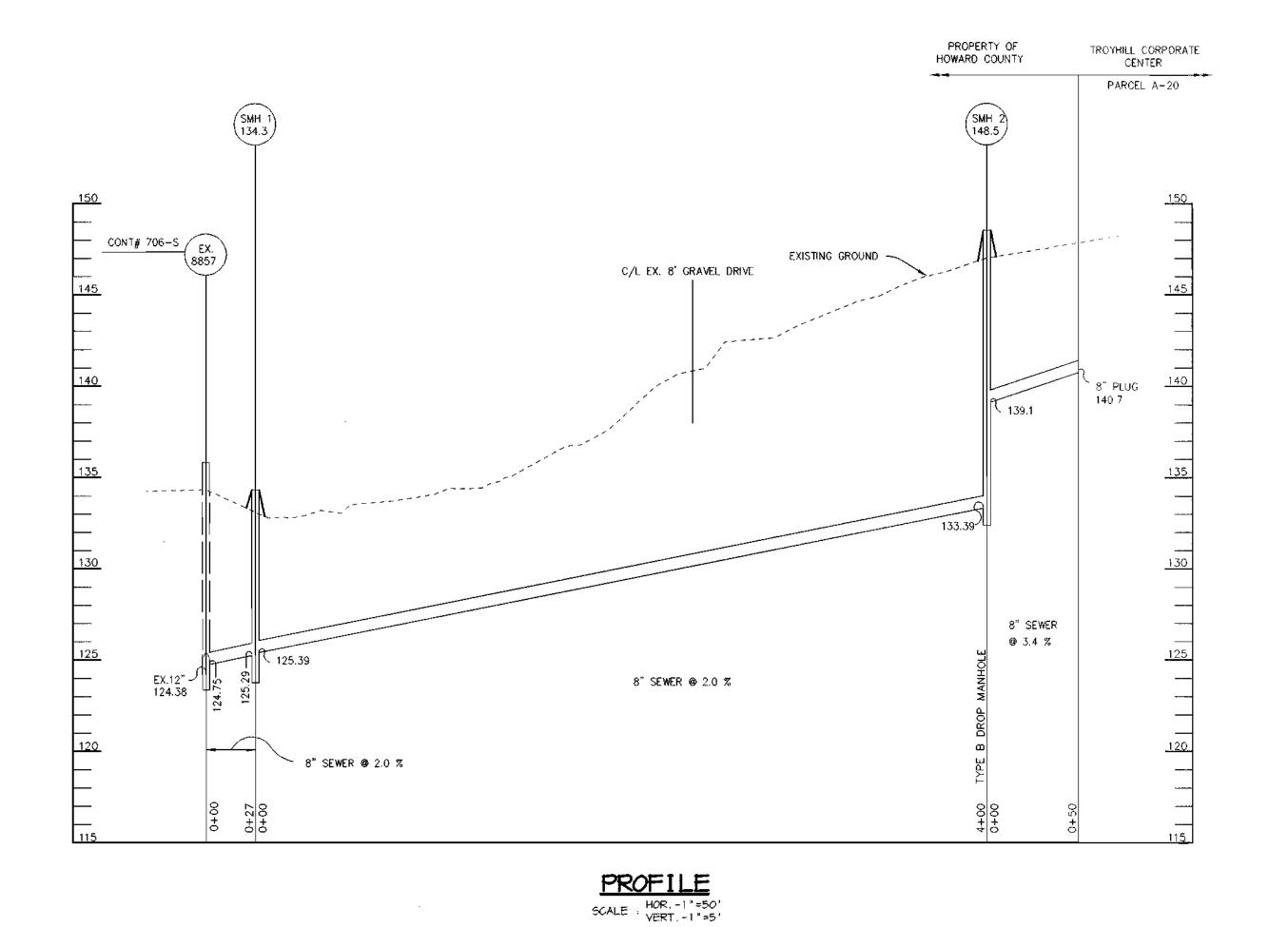
REVISION

SCALE AS SHOWN

SHEET 2 OF 3

F:\PROJECT\98357\WS2.dwg Mon May 15 08:12:16 2000 RN





STRUCTURE SCHEDULE

STRUCTURE	TYPE	LOCAT	I ON	INV. IN	INV. OUT	TOP	REMARKS
SMH-1	STD. MH	* N 494,883	E 869,402 <u></u>	125.60 (8")	125.50 (8")	134.3	HOCO STD. DETAIL 6 5.12
SMH-2	TYPE B DROP MH	∦ N 495,263	E 869,2 78 ⚠	139.10 (8")	133.39 (8")	148.5	HOCO STD. DETAIL S 1.32

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

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING

RIEMER MUEGGE & ASSOCIATES, INC ENGINEERING ● ENVIRONMENTAL SERVICES ● PLANNING ● SURVEYING



ES: KCB					
	l				
RN: KCB					
uz C ID				ļ	
HK: CJR					
ATE 5 /15 /00	WAD	\triangle	REVISED STRUCTURE LOCATION	7-13-00	
ATE:5/15/00	BY	NO.	REVISION DATE		
					-

PLAN AND PROFILE SANITARY SEWER MAIN TROY HILL CORPORATE CENTER

PHASE 111.4

PARCELS A-11.A-12 A-20

MANSION LANE 1st ELECTION DISTRICT HOWARD COUNTY, MARYLAND CONTRACT 14-3834-D

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

HOWARD COUNTY, MARYLAND

tel 410.997.8900 fax 410.997.9282 98357/WS3.DWG

600' SCALE MAP NO. 37 BLOCK NO. 18

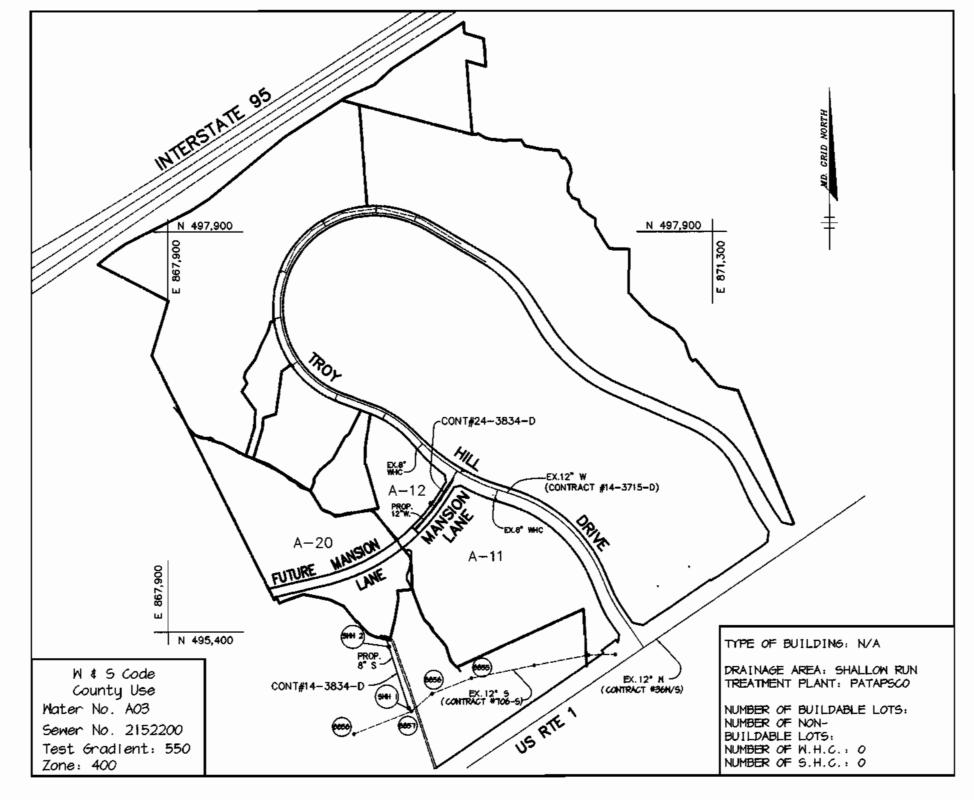
SHEET INDEX DESCRIPTION TITLE SHEET PLAN AND PROFILE WATER MAIN

PLAN AND PROFILE SANITARY SEWER

WATER & SEWER EXTENSION

TROY HILL CORPORATE CENTER PHASE IIIA

1st ELECTION DISTRICT HOWARD COUNTY, MARYLAND CONTRACT NO. 14-3834-D



VICINITY MAP

GENERAL NOTES

- 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 🔎 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 mork 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.
- 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 6as 4 Electric Co. Contractor Services Baltimore Gas & Electric Co. Underground Damage Control Miss Utility Colonial Pipeline Co.

850-4620 787-9068 1-800-257-7777 795-1390 Bureau of Utilities, Howard County Department of Public Works

531-5533

- 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 accordance with Standard 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\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.
- 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.

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

NAME OF UTILITY CONTRACTOR: C.J. MILLER LAC

Sediment control measures for this contract

will be implemented in accordance with Section

219 of the Specifications and as shown on F-00-103

QUANTITIES

QUANTITIES

360 L.F.

18 C.F.

IEA.

468 C.F.

ZEA.

QUANTITIES

ESTIMATED

340 LF

16 LF

1 EA.

1 EA.

480 LF

2 EA.

I TEMS

12" WATER

6" WATER

6" VALVES

8" SEWER

FIRE HYDRANTS

SEWER MANHOLES

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND

CHIEF, BUREAU OF UTILITIES DATE

AS-BUILT

TYTON JOINT 52

HYDRAUT

CHECKBOX

AS-BUILT DATE

RESILENT SEAT O.R. CATEVALVE

U.S. PIRE FOOLDARY

MUELLER CO.

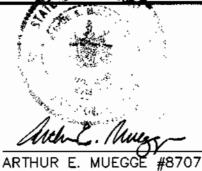
MUEUER CO.

D-3034/SDR 35 J.M. MANUFACT.

PRECAST CONDRETE AMERICAST CONG.

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 98357\WS1.DWG

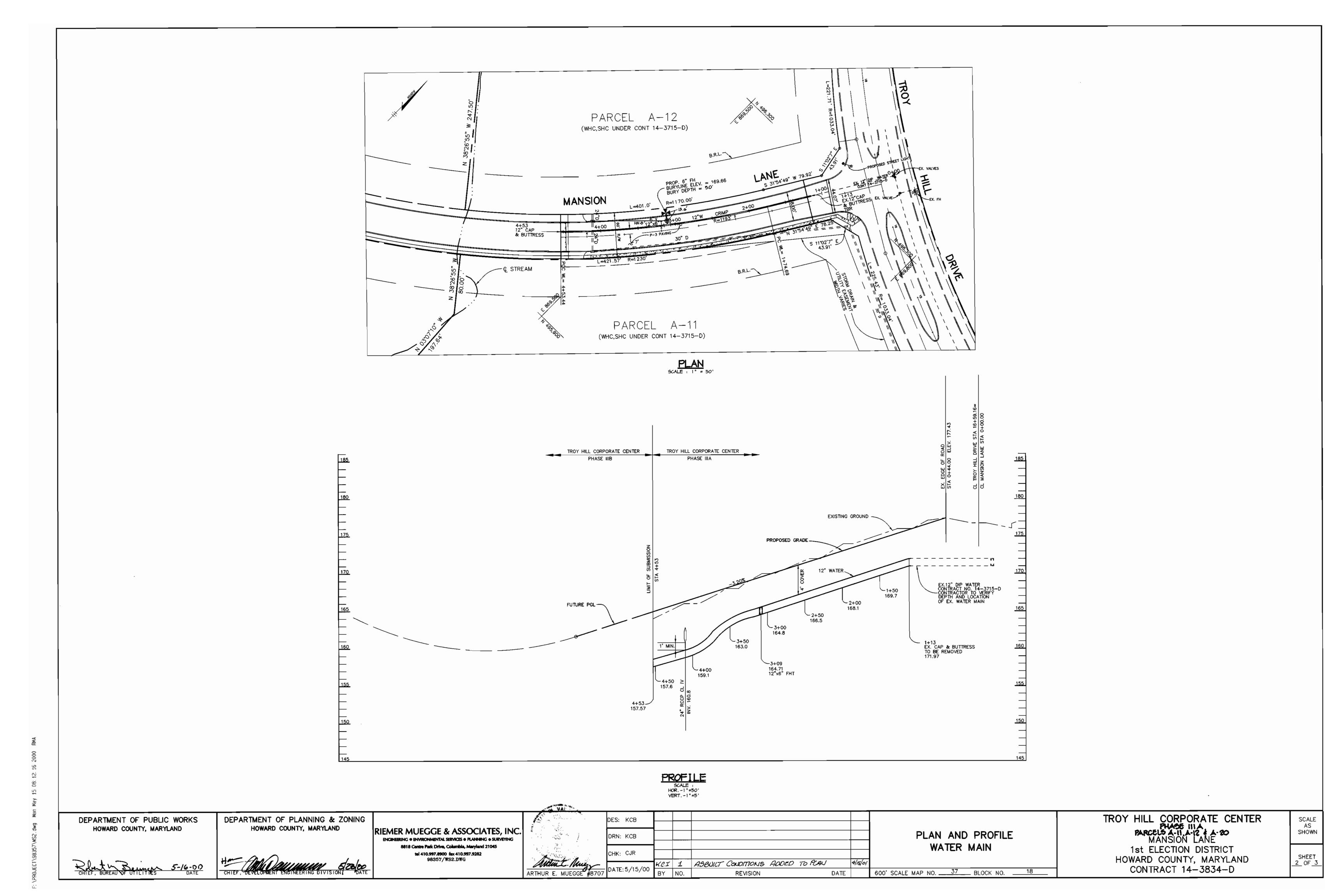


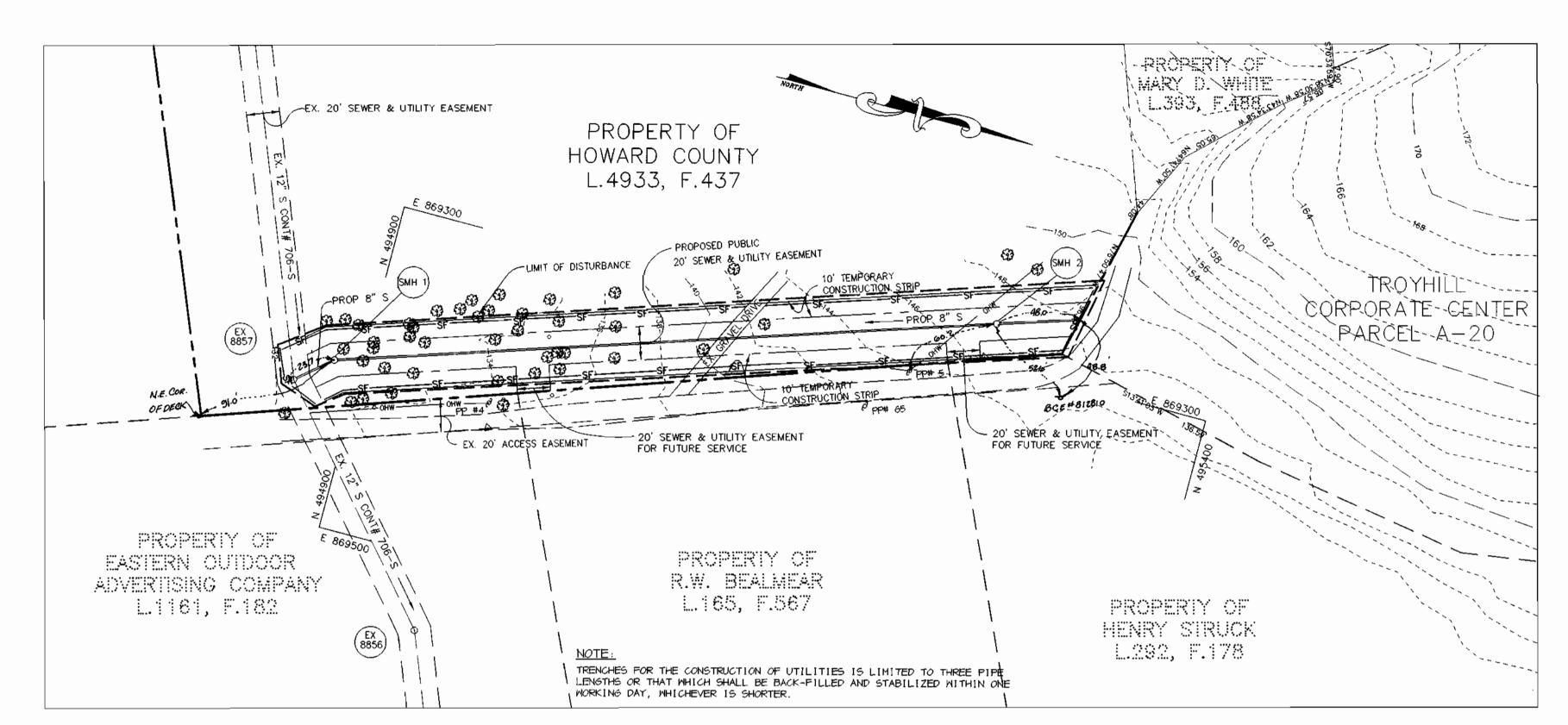
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								TITLE SHEET
	CHK:	CJR						
-	D 4 TE	E /4E /00	K.C.I	1	ASBUILT CONDITIONS ADDED TO PLAN		4/15/01	
707	DATE	5/15/00	BY	NO.	REVISION	DATE		600' SCALE MAP NO. 37 BLOCK NO.

TROY HILL CORPORATE CENTER PHASE III A PARCELS A-1), A-12 & A-20 MANSION?LANE 1st ELECTION DISTRICT HOWARD COUNTY, MARYLAND

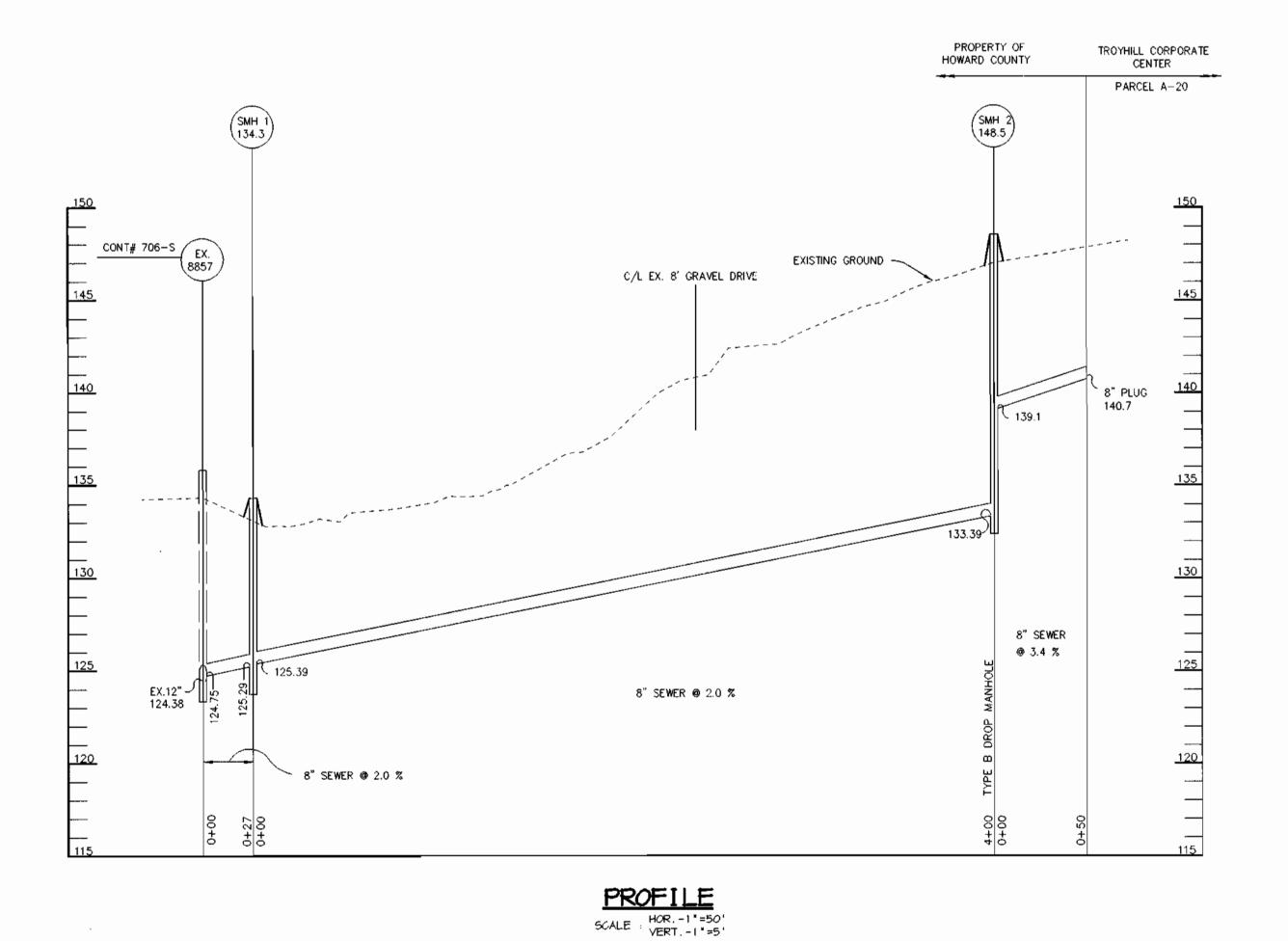
CONTRACT 14-3834-D

SCALE SHOWN SHEET 1_OF_3





PLAN 50'



STRUCTURE SCHEDULE

STRUCTURE	TYPE	Loca	ATION	INV, IN	INV. OUT	TOP	REMARKS
SMH-1	STD, MH	* N 494,883	E 869, 4 02 🛕	125.60 (8")	125.50 (8")	134.3	HOCO STD. DETAIL 6 5.12
SMH-2		* N 495, 263	E 869, 27 8 🛆	139.10 (8")	133.39 (8")	148.5	HOCO STD. DETAIL S 1.32

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

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND

CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

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/WS3.DWG



DES: KCB					
DES. NOD					
DRN: KCB					
CHK: CJR	K.C.I	г	ASBURT CONDITIONS ADDED TO PLAN		4/15/01
(4.5. / 2.2	UAD	\triangle	REVISED STRUCTURE LOCATION		7.13-00
DATE:5/15/00	BY	NO.	REVISION	DATE	

PLAN AND PROFILE SANITARY SEWER MAIN

600' SCALE MAP NO. <u>37</u> BLOCK NO. <u>18</u>

TROY HILL CORPORATE CENTER

PARCELS A-11.A-12 A-20

MANSION LANE

1st ELECTION DISTRICT

HOWARD COUNTY, MARYLAND

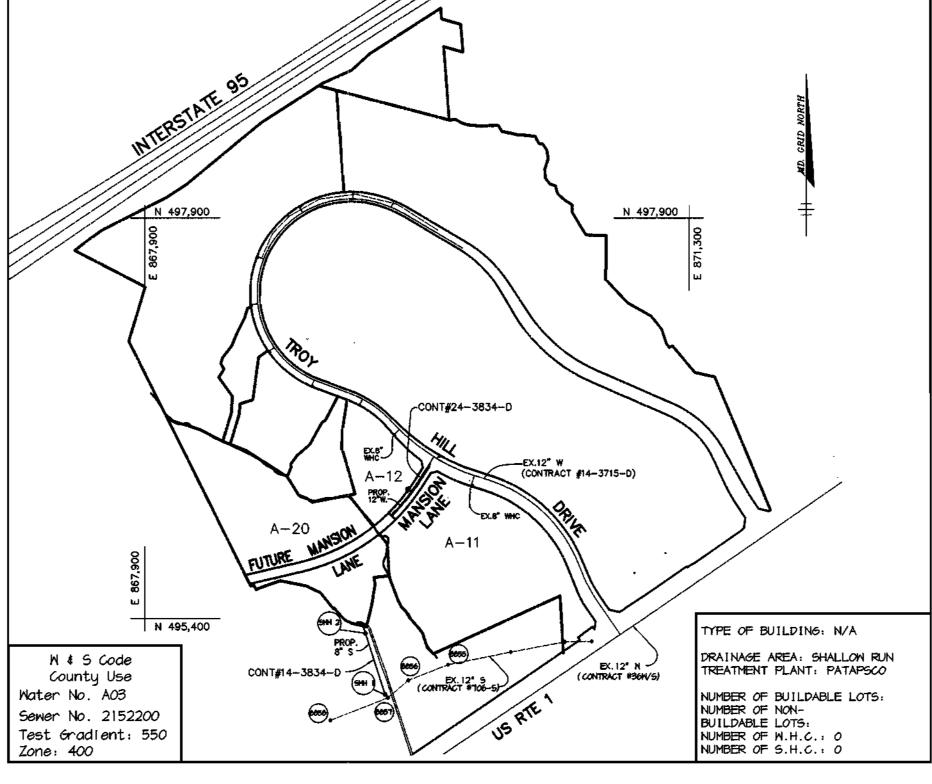
CONTRACT 14-3834-D

SCALE
AS
SHOWN
SHEET
3 OF 3

WATER & SEWER EXTENSION

TROY HILL CORPORATE CENTER

1st ELECTION DISTRICT HOWARD COUNTY, MARYLAND CONTRACT NO. 14-3834-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.
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Baltimore Gas & Electric Co. Contractor Services 850-4620 Baltimore Gas & Electric Co. Underground Damage Control Miss Utility Colonial Pipeline Co.

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

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· •

219 of the Specifications and as shown on F-00-103 SURVEY AND DRAFTING DIVISION Review for Howard Soil Conservation District and sediment control by the Howard Soil Conservation

CHERRY HILL CONTR. INC.

QUANTITIES

QUANTITIES

340 L.F.

1665

4800.F

ZEA.

QUANTITIES

ESTIMATED

340 LF

16 LF

ΙΕΑ.

1 EA.

2 EA.

480 LF

ITEMS

12" WATER

6" WATER

6" VALVES

8" SEWER

FIRE HYDRANTS

SEMER MANHOLES

NAME OF UTILITY CONTRACTOR

DEPARTMENT OF PUBLIC WORKS

HOWARD COUNTY, MARYLAND

Sediment control measures for this contract

will be implemented in accordance with Section

DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND

AS-BUILT

TYTON JOINT 'O.I.

TYTON JOINTOILE

AMERICAN B.84B

D-3034/SDR 35

CHECKBOX

AS-BUILT DATE

MANUFACTURER /

AMERICAN FLOW

CONTROL 14C.

SERIES 500 GATE AMERICAN FLOW RESILIENT WEDGE CONTROL INC.

PRECAST CONDRETE | ATLANTIC PRECAST

SUPPLIER

GRIFFINI PIPE CO

RIEMER MUEGGE & ASSOCIATES, INC. ENGINEERING ● ENVIRONMENTAL SERVICES ● PLANNING ● SURVEYING 8818 Centre Park Drive, Columbia, Maryland 21045 tel 410,997,8900 fax 410,997,9282

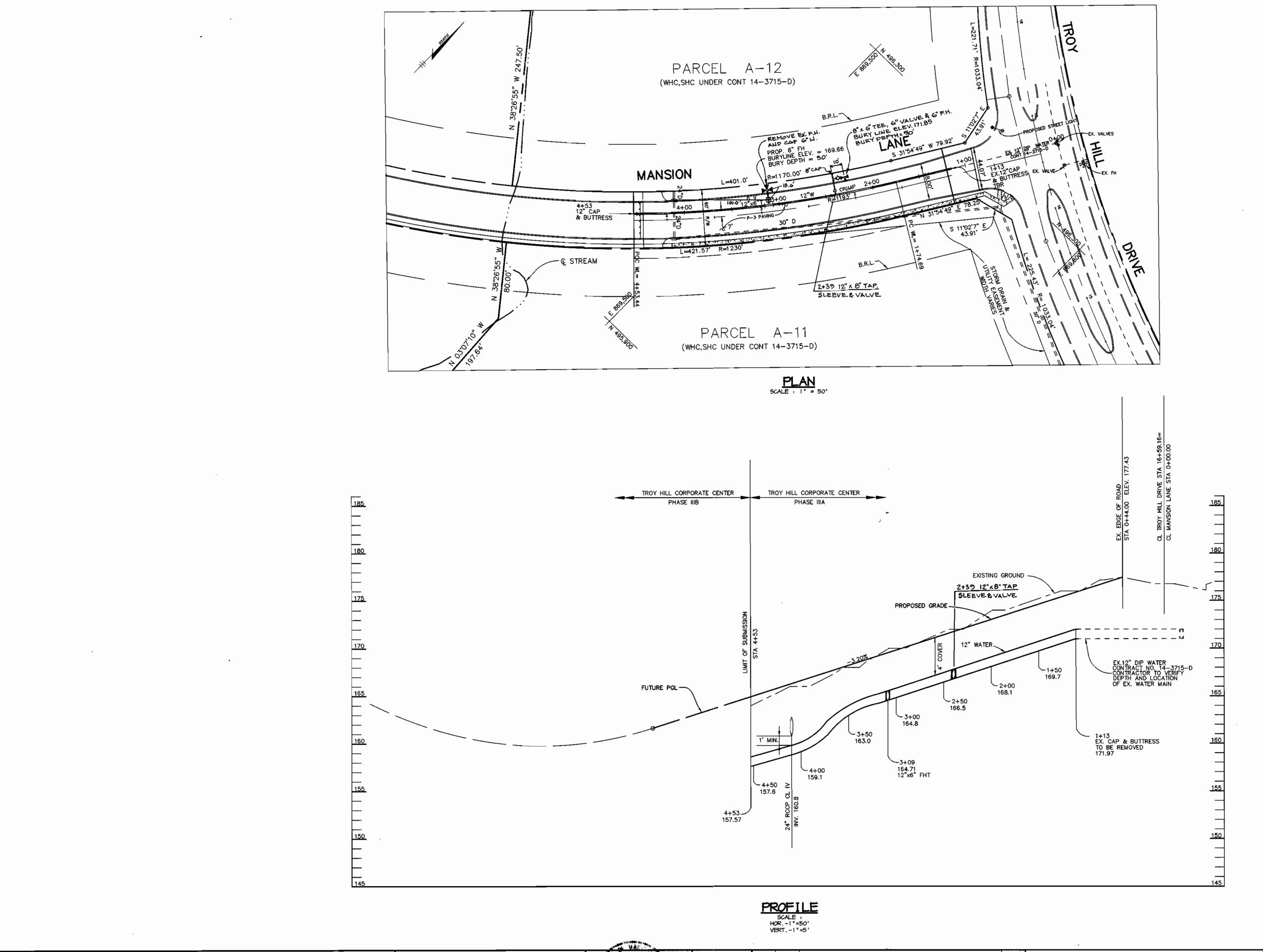


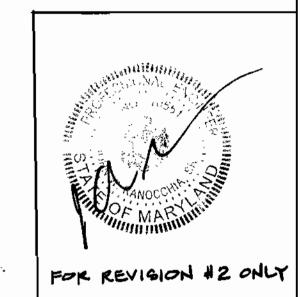
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	DRN:	KCB						TITLE SHEET
	CHK:	CJR	K.C.I	2	ASBUILT CONDITIONS ADDED TO PLAN	12/	fa/oi	
-	D 4 75	5 /45 /00	K.C.I	1	ASBUILT CONDITIONS ADDED TO PLAN	4/1	15/01	
707	DAIL:	5/15/00	BY	NO.	REVISION	DATE		600' SCALE MAP NO37 BLOCK NO.

TROY HILL CORPORATE CENTER PHASE III A PARCEUS A-1), A-12 & A-20 MANSION LANE 1st ELECTION DISTRICT HOWARD COUNTY, MARYLAND CONTRACT 14-3834-D

SCALE AS SHOWN

SHEET 1 OF 3





DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND

RIEMER MUEGGE & ASSOCIATES, INC. 8818 Centre Park Drive, Columbia, Maryland 21045 tel 410.997.8900 fax 410.997.9282 98357/WS2.DWG

	C
	[
3000 A	0
ARTHUR E MUEGGE #8707	[

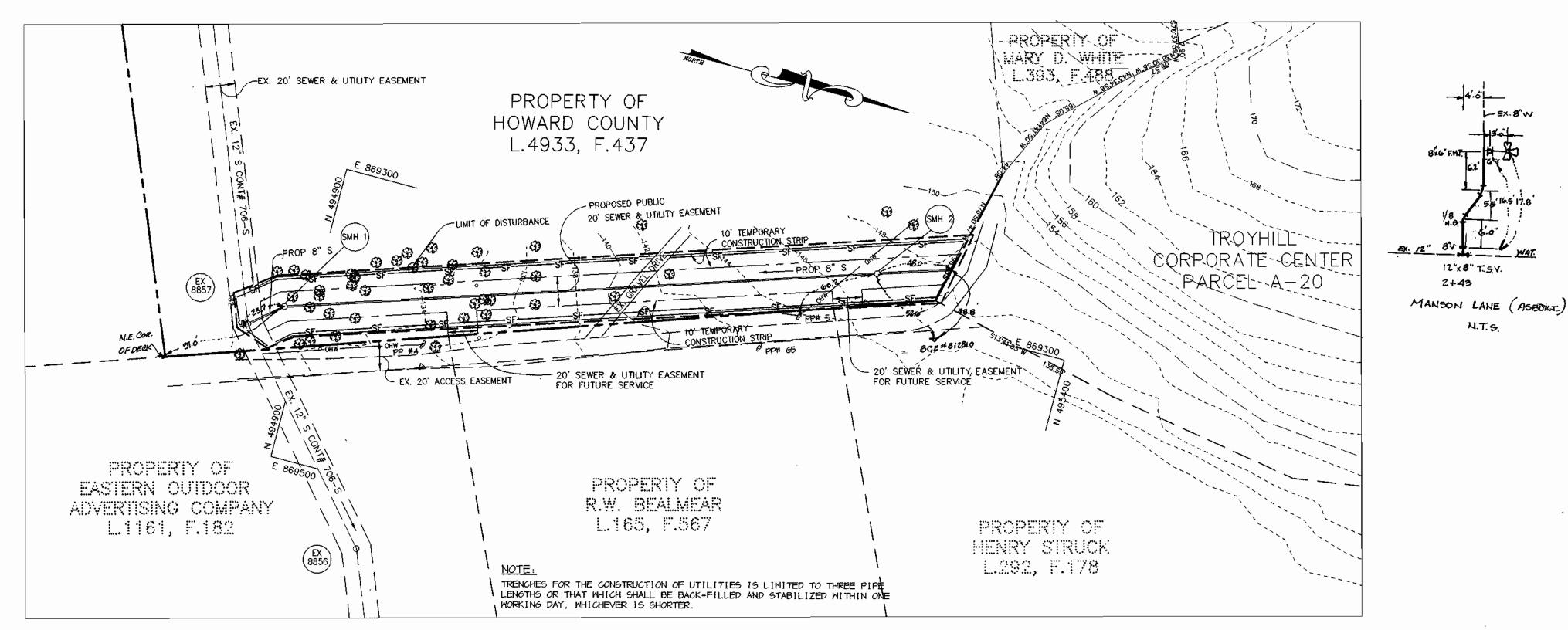
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	<i>D</i> 20.	NOD					
	DRN:	KCB					PLAN /
							WAT
	CHK:	CJR					11/1
		5 /45 /00	K.C.I	1	ASBUILT CONDITIONS ADDED TO PLAN	4/15/01	
•	DATE:	5/15/00	BY	NO.	REVISION DAT	E	600' SCALE MAP NO

PLAN AND PROFILE WATER MAIN

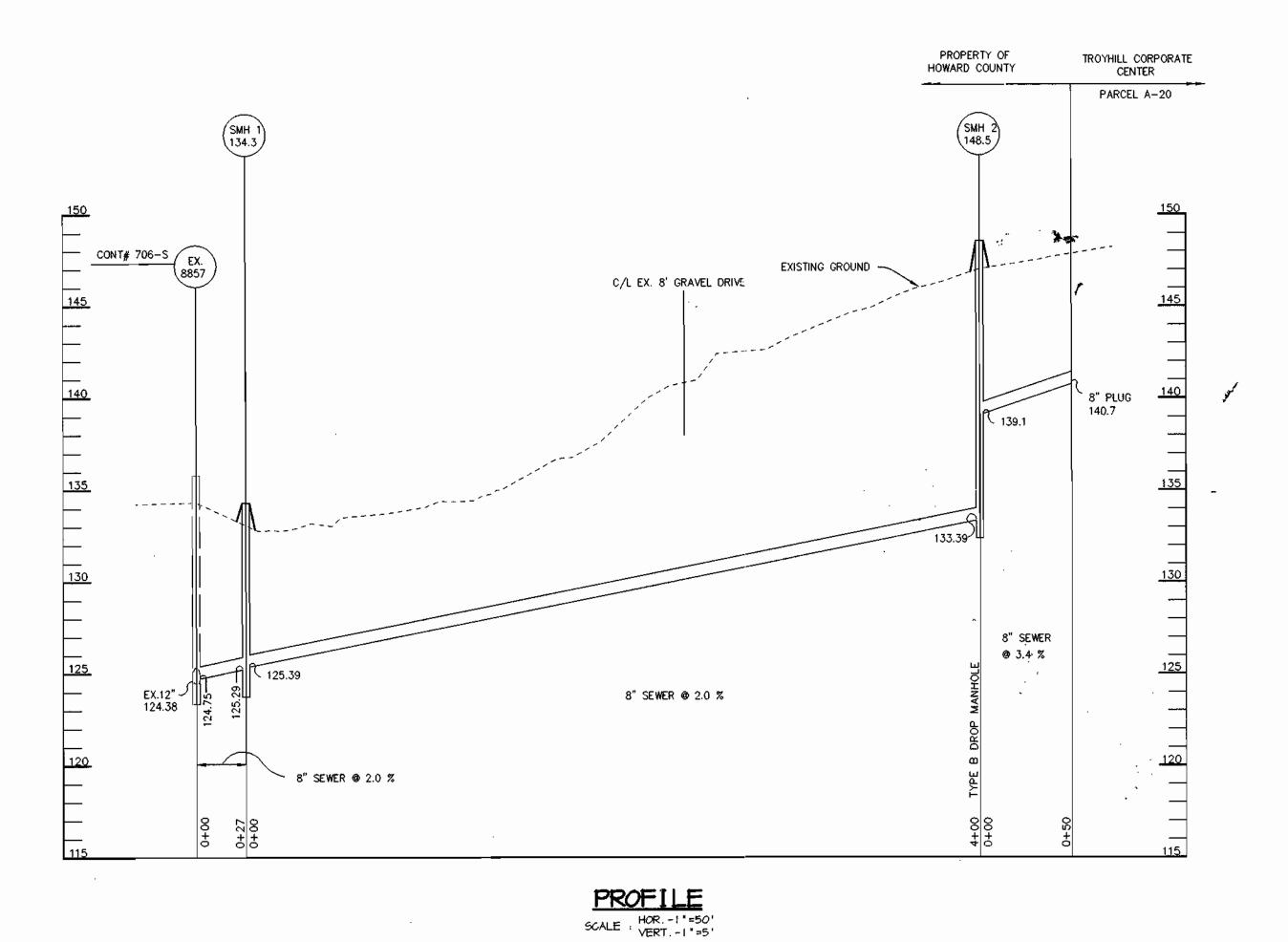
___ BLOCK NO.

TROY HILL CORPORATE CENTER
PHASE III A
PARCELS A-II, A-12 & A-20
MANSION LANE 1st ELECTION DISTRICT HOWARD COUNTY, MARYLAND CONTRACT 14-3834-D

SCALE AS SHOWN SHEET 2 OF 3



PLAN SCALE : 1" = 50'



STRUCTURE SCHEDULE

STRUCTURE	TYPE	LO	CATION	INV. IN	INV. OUT	TOP	REMARKS
SMH-1	STD. МН	* N 494,883	E 869, 4 02 🔨	125.60 (8")	125.50 (8")	134.3	HOCO STD. DETAIL 6 5.12
SMH-2	TYPE B DROP MH	* N 495, 263	E 869, 2 76 🛆	139.10 (8")	133,39 (8")	148.5	HOCO STD. DETAIL S 1.32

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

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/WS3.DWG

Mile May

	DES: KCB					
	DES. ROB					
	DRN: KCB		·			
		K.C.I	3	ASBUILT CONDITIONS ADDED TO PLAN		12/21/
	CHK: CJR	K.C.I	S	ASBUILT CONDITIONS ADDED TO PLAN		4/15/
	5 4 7 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	UAD	\geq	REVISED STRUCTURE LOCATION		7:13<
7	DATE: 5/15/00	BY	NO.	REVISION	DATE	

PLAN AND PROFILE SANITARY SEWER MAIN

TROY HILL CORPORATE CENTER
PHASE IIIA
PARCELS A-II.A-12 A-20
MANSION LANE
1st ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

CONTRACT 14-3834-D

SCALE
AS
SHOWN

SHEET
3 OF 3

CHIEF, BUREAU OF UTILITIES DATE

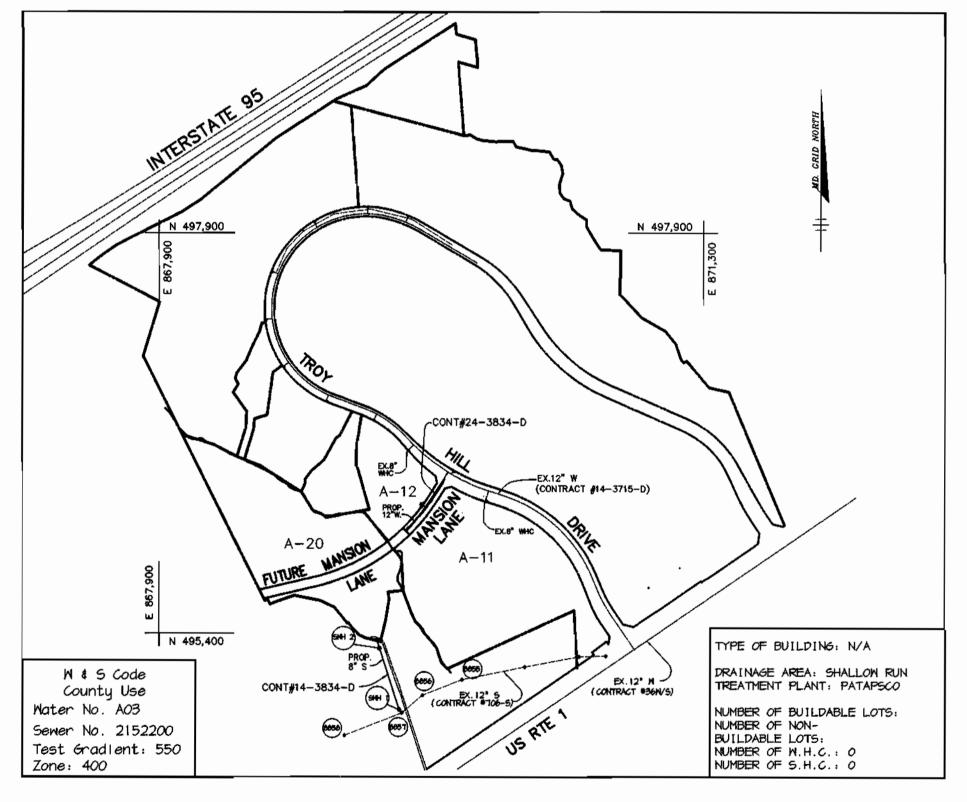
CHIEF, DEVELOPMENT ENGINEERING DIVISION TATE

600' SCALE MAP NO. 37 BLOCK NO. 18

WATER & SEWER EXTENSION

TROY HILL CORPORATE CENTER PHASE IIIA

1st ELECTION DISTRICT HOWARD COUNTY, MARYLAND CONTRACT NO. 14-3834-D



VICINITY MAP SCALE : 1"=600'

GENERAL NOTES

- 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.6.5. data.
- 4. All pipe elevations shown 🔎 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 Baltimore Gas & Electric Co. Contractor Services Baltimore 6as & Electric Co. Underground Damage Control Miss Utility Colonial Pipeline Co.

531-5533 850-4620 787-9068 1-800-257-7777 795-1390 Bureau of Utilities, Howard County Department of Public Works

- 9. Trees and shrubs are to be protected from damage to max1 mum 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 mater 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 accordance with Standard 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 mater 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 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.
- 30. Howard County DPM 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.

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ITEMS	ESTIMATED	QUANTITIES	TYPE	MANUFACTURER / SUPPLIER			
12" WATER	340 LF	360 L.F.	TYTON JOINT 52	U.S. PIRE & FOUNDARY			
6" MATER	16 LF	18 C.F.	H A	tr et			
FIRE HYDRANTS	1 EA.	(EA ·	CELITURION HYDRAUT	MUELLER CO.			
6" VALVES	1 EA.	l EA	RESILENT SEAT O.R. CATEVALVE	MUEUERCO.			
8" SEWER	480 LF	468 C.F.	D-3034/50R 35	J.M. MANUFACT.			
SEMER MANHOLES	2 EA.	ZEA.	PRECAST CONDRETE	AMERICAST CONG.			
NAME OF UTILITY CONTRACT	OR : C.J. MILLET	e lue.					
	Sediment control measures for this contract						
will be implemented in	h Section	AS-BILL T DATE					

QUANTITIES

QUANTITIES

Review for Howard Soil Conservation District and meets technical requirements.

219 of the Specifications and as shown on F-00-103

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

SURVEY AND DRAFTING DIVISION

AS-BUILT

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



	DES:	KCB	HMG	2	ADD 8"48 6" FH. / REMOVE EX. F.H. SHT. 20	F3	Vindor
			,				
	DRN:	KCB					
	CHK:	CJR					
	DATE	5 /45 /00	K.C.I	1	ASBOILT CONDITIONS ADDED TO PLAN		4/15/01
7	DATE: 5/15/00		BY	NO.	REVISION	DATE	

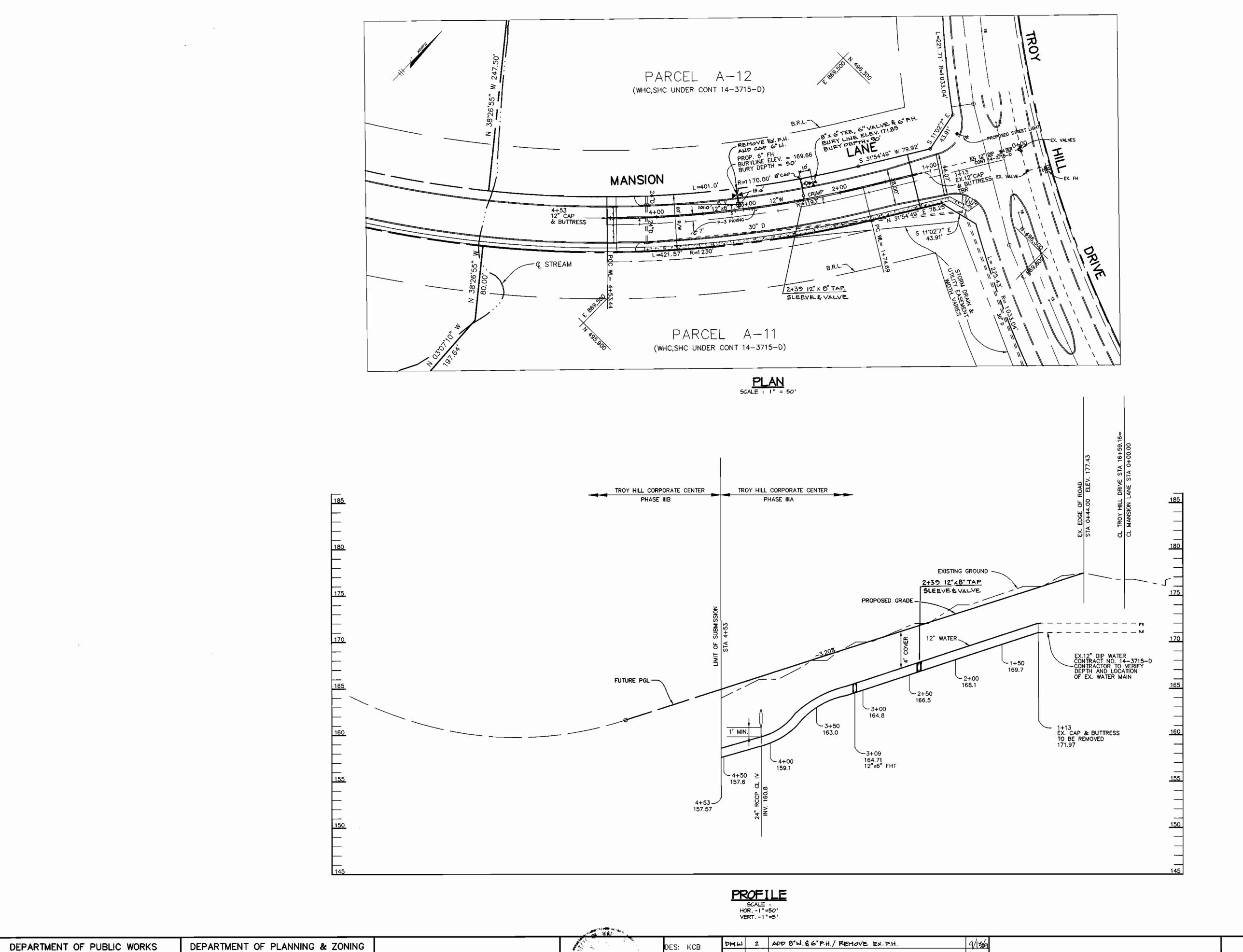
TITLE SHEET

TROY HILL CORPORATE CENTER PARCEUS A-1), A-12 & A-20 MANSION?LANE 1st ELECTION DISTRICT HOWARD COUNTY, MARYLAND

CONTRACT 14-3834-D

AS SHOWN SHEET <u>1</u> OF <u>3</u>

98357\WS1.DWG 600' SCALE MAP NO. ____37___ BLOCK NO.



FOR REVISION #2 ONLY

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

HOWARD COUNTY, MARYLAND

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	DE
	DF
	CH
ARTHUR E. MUEGGE #8707	DA

	DES: KCB	PH9	2	ADD 8"W. 46"P.H. / REMOVE EX. F.H.		9/14/0	
[,	
	DRN: KCB						PLAN AND PROFILE
							WATER MAIN
	CHK: CJR						W/ (1 E/ (W/ / / / / / / / / / / / / / / / / /
-	5 / 5 / 6 / 6 6	KCI	1	ASBUILT CONDITIONS ADDED TO PLAN		4/15/01	
07	DATE: 5/15/00	BY	NO.	REVISION	DATE		600' SCALE MAP NO37 BLOCK NO18

PLAN AND PROFILE WATER MAIN

TROY HILL CORPORATE CENTER
PHASE 111 A
PARCELS A-11 A-12 4 A-20
MANSION LANE 1st ELECTION DISTRICT HOWARD COUNTY, MARYLAND CONTRACT 14-3834-D

SCALE AS SHOWN SHEET 2 OF 3