

# PUBLIC WATER EXTENSION 7125 TROY HILL DRIVE PARCEL A-13

## 1st ELECTION DISTRICT HOWARD COUNTY, MARYLAND CONTRACT NO. 14-4067-D

### SHEET INDEX

1	TITLE SHEET
2	WATER PLAN & PROFILE

PUBLIC WATER QUANTITIES				
ITEMS	QUANTITIES ESTIMATED	AS-BUILT		
		QUANTITIES	TYPE	MANUFACTURER/SUPPLIER
6" WATER MAIN	116'			
8" WATER MAIN	418'			
6" VALVE & VAULT	4 EA.			
8" VALVE & VAULT	2 EA.			
8"x6" TEE	3 EA.			
8"x8" TEE	2 EA.			
6"x6" TEE	1 EA.			
8"x6" REDUCER	1 EA.			
8" - 11-1/4" HB	1 EA.			
6" - 45" HB	1 EA.			
8" - 45" HB	1 EA.			
8" - 45" VB	2 EA.			
6" FIRE HYDRANT	4 EA.			
6" CAP & BUTTRESS	2 EA.			
8" CAP & BUTTRESS	1 EA.			
6" SHC	11'			
SANITARY MANHOLE	1			

NAME OF UTILITY CONTRACTOR:

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE SPECIFICATIONS AND AS SHOWN ON SDP-02-150

CHECKBOX

AS-BUILT DATE:

SURVEY & DRAFTING DIVISION

REVIEW FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REVIEW

*Jim Meyer* 11/19/02  
NATURAL RESOURCES CONSERVATION DISTRICT DATE

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

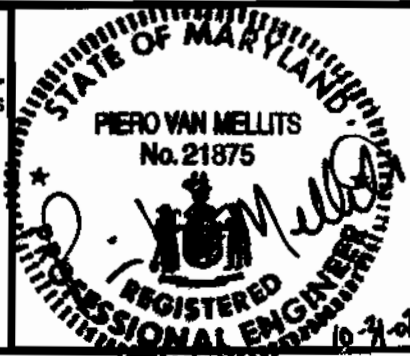
*John R. Roberts* 11/19/02  
HOWARD SOIL CONSERVATION DISTRICT DATE

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING  
HOWARD COUNTY, MARYLAND



MORRIS & RITCHIE ASSOCIATES, INC.  
ENGINEERS, PLANNERS, SURVEYORS AND LANDSCAPE ARCHITECTS  
9090 JUNCTION DRIVE SUITE 9  
ANNAPOLIS JUNCTION, MARYLAND 20701  
(410) 792-9792 or (301) 778-1690  
FAX (410) 792-7395



DES:	CAO/RLZ		
DRN:	CAO/RLZ		
CHK:	PVM		
DATE:	10/31/02		
KCI:	1	AS-BUILT FIELD DATA	11/26/02
BY NO.:		REVISIONS	

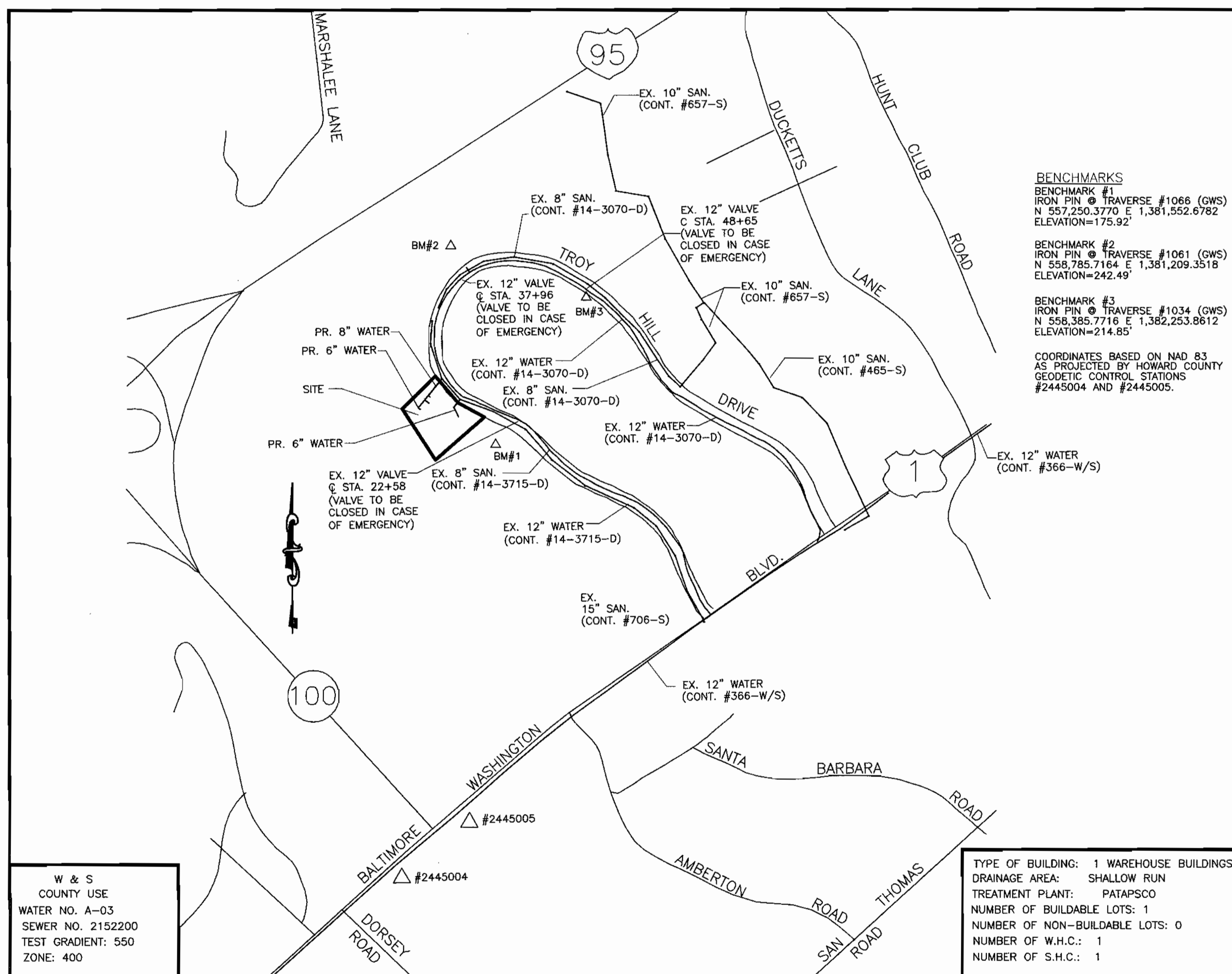
**TITLE SHEET**

600' SCALE MAP NO. 37 BLOCK NO. 18

WATER EXTENSION PLAN  
7125 TROY HILL DRIVE  
TROY HILL CORPORATE CENTER  
PARCEL A-13  
WATER PLANS  
CONTRACT NO. 14-4067-D  
LIBER 6057 FOLIO 28  
ZONED: M-1 TAX MAP: 37 GRID: 11 PARCEL 135  
ELECTION DISTRICT NO.: 1 HOWARD COUNTY, MARYLAND

SCALE AS SHOWN

SHEET 1 OF 2



VICINITY MAP  
SCALE: 1"=600'

GENERAL NOTES

PART I.

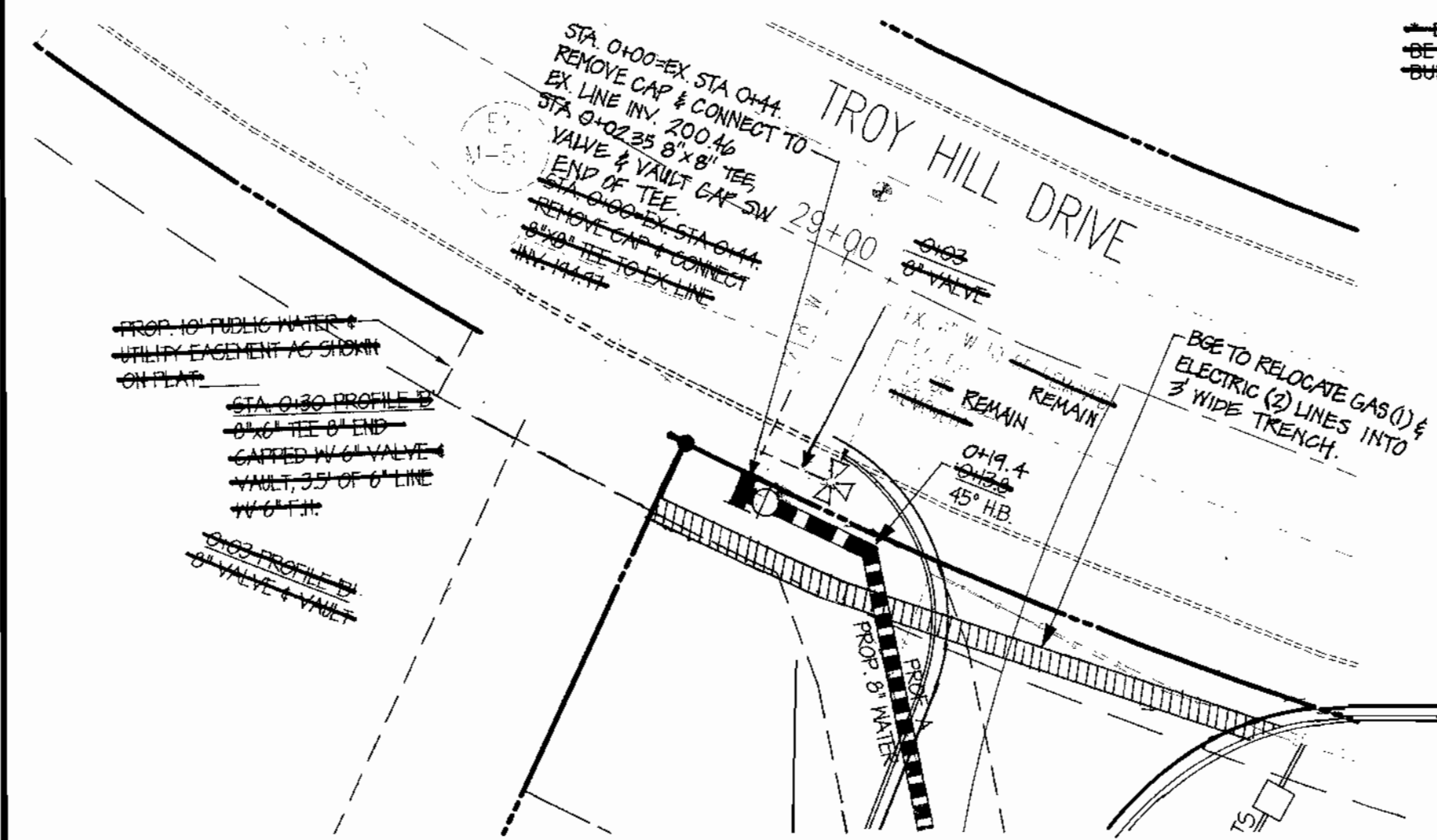
- Approximate locations of existing mains are shown. The contractor shall take all necessary precautions to protect existing mains and services and maintain uninterrupted service. Any damage incurred shall be repaired immediately to the satisfaction of the Engineer at the contractor's expense.
- All horizontal controls are based on Maryland State Coordinates, NAD 83/91.
- All vertical controls are based on NAVD 88.
- All pipe elevations shown are invert elevations unless otherwise noted on the plans.
- Clear all utilities by a minimum of 12 inches. 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.
- For details not shown on the drawing, 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.
- Where test pits have been made on existing utilities, they are noted by the symbol ( at the locations of the test pits. A note or notes containing the results of the test pit or pits included on the drawing. 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.
- The contractor shall notify the following utility companies or agencies at least five working days before starting work shown on these plans:  
 AT&T 1-800-252-1133  
 BGE (Contractor Services) 410-850-4620  
 BGE (Underground Damage Control) 410-787-9068  
 Bureau of Utilities 410-313-4900  
 Colonial Pipeline Co 410-795-1390  
 Miss Utility 1-800-257-7777  
 State Highway Administration 1-800-743-0033/ 410-224-9210
- Trees and shrubs are to be protected from damage to the maximum extent. Trees and shrubs located within the construction strip are not to be removed or damaged by the contractor.
- The contractor shall remove trees, stumps and roots along the line of excavation. Payment such removal shall be included in the unit price bid for construction of the main.
- The contractor shall notify the Bureau of Highways, Howard County, at (410)-313-7450 at least five working days before open cutting or boring/jacking of any County road 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.

PART II. WATER

- All water mains shall be D.I.P. Class 52 unless otherwise noted.
- Tops of all water mains shall have a minimum of 3'-6" of cover unless otherwise noted.
- Valves adjacent to tees shall be strapped to tees.
- All fittings shall be buttressed or anchored with concrete in accordance with Standard Details unless otherwise provided for on the drawings.
- 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. The soil around the fire hydrant shall be compacted in accordance with Section 1005 of the Standard Specifications.
- The contractor shall not operate any water main valves on the existing water system.

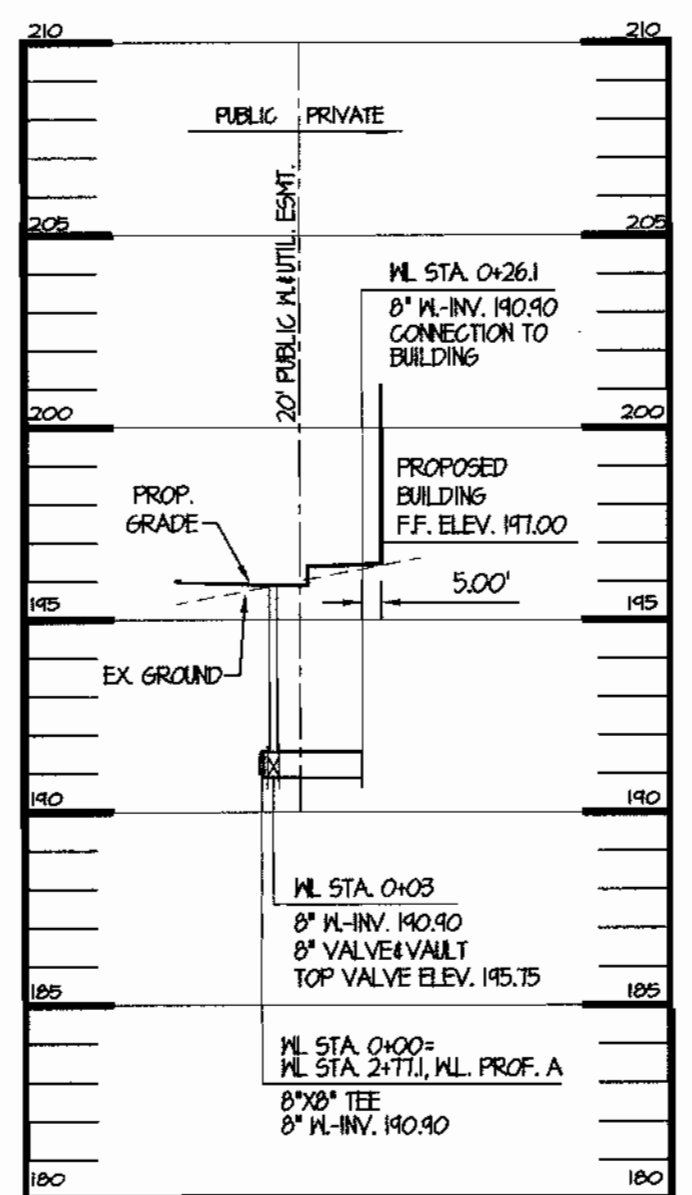
PART III.

- All sewer mains shall be D.I.P. or P.V.C. unless otherwise noted.
- All manholes shall be 4'-0" inside diameter unless otherwise noted.
- 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 G5.52. 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.

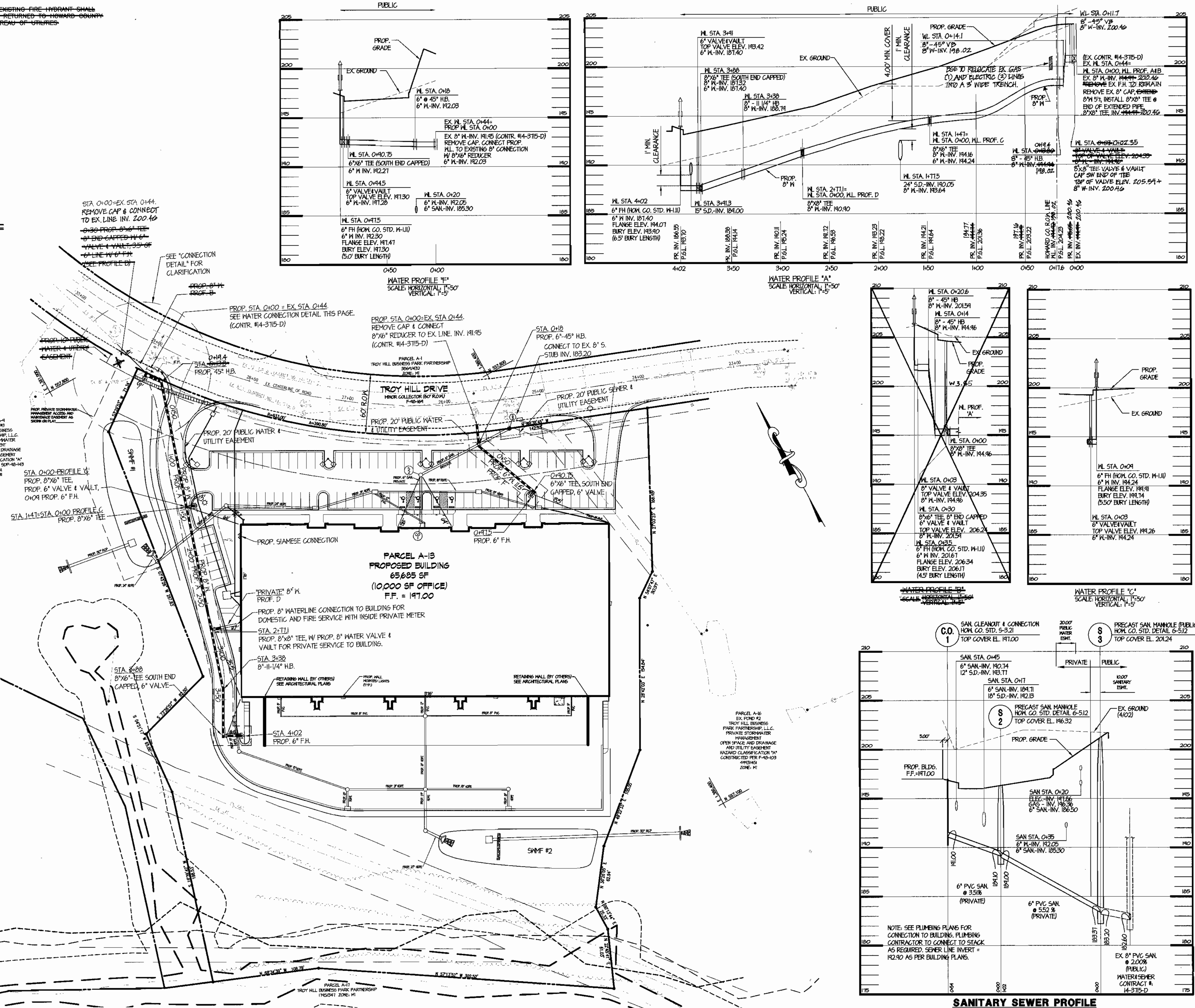


**CONNECTION DETAIL**  
SCALE: 1"=20'

- LEGEND**
- PROPERTY LINE
  - ROOT-OF-WAY LINE
  - 50' B.M.
  - BUILDING RESTRICTION LINE
  - EXISTING FLOORPLAN
  - EXISTING WETLAND
  - EXISTING WETLAND BUFFER
  - EXISTING EASEMENT
  - EXISTING STREAM
  - EXISTING STREAM BUFFER
  - EXISTING 1" CONTOUR
  - EXISTING 2" CONTOUR
  - EXISTING CURB
  - EXISTING CENTERLINE OF ROADWAY
  - EXISTING TREE
  - EXISTING EDGE OF WOODS
  - EXISTING ELECTRIC LINE
  - EXISTING GAS LINE
  - EXISTING SANITARY SEWER
  - EXISTING STORM DRAIN
  - EXISTING WATER LINE
  - EXISTING FIRE HYDRANT/WATER VALVE
  - PROPOSED BUILDING
  - PROPOSED CENTERLINE OF ENTRANCES
  - PROPOSED CURB
  - PROPOSED RETAINING WALL
  - PROPOSED CONCRETE
  - PROPOSED HEAVY DUTY PAVING
  - PROPOSED LIGHT DUTY PAVING
  - PROPOSED DOOR
  - PROPOSED HANDICAP PARKING SPACE
  - PROPOSED NUMBER OF PARKING SPACES
  - PROPOSED 1" CONTOUR
  - PROPOSED 2" CONTOUR
  - PROPOSED 10' CONTOUR
  - PROPOSED SPOT ELEVATION
  - PROPOSED TOP OF CURB SPOT ELEVATION
  - PROPOSED LIGHT POLES
  - PROPOSED SANITARY SEWER
  - PROPOSED STORM DRAIN
  - PROPOSED PUBLIC WATER LINE (SEE PUBLIC & PRIVATE W.L.)
  - PROPOSED PRIVATE WATER LINE
  - PROPOSED FIRE HYDRANT/WATER VALVE
  - PROPOSED EASEMENT



**WATER PROFILE 'D'**  
SCALE: HORIZONTAL 1"=50'  
VERTICAL 1"=5'



**WATER LINE PLAN**  
SCALE: 1"=50'

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE SPECIFICATIONS AND AS SHOWN ON SDP-02-150

REVIEW FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REVIEW

*Jim Meyer* 11/19/02  
NATURAL RESOURCES CONSERVATION SERVICE DATE

*John R. Rhoton* 11/19/02  
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**DEPARTMENT OF PUBLIC WORKS**  
HOWARD COUNTY, MARYLAND

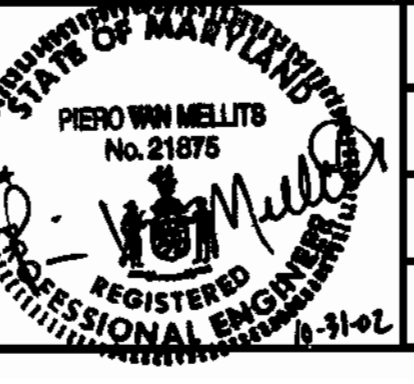
*Robert...* 11-12-02  
CHIEF, BUREAU OF UTILITIES DATE

**DEPARTMENT OF PLANNING & ZONING**  
HOWARD COUNTY, MARYLAND

*...* 12/2/02  
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

**MRA**  
MORRIS & FITCH ASSOCIATES, INC.  
ENGINEERS, PLANNERS, SURVEYORS AND LANDSCAPE ARCHITECTS

8080 JUNCTION DRIVE SUITE 9  
ANNAPOLIS JUNCTION, MARYLAND 20701  
(410) 792-9792 or (301) 776-1680  
FAX (410) 792-7385



DES:	CAO/RLZ	CAO	REVISE NORTH ENTRANCE AND WATER LINE	05/15/05
DRN:	CAO/RLZ			
CHK:	PVM			
DATE:	10/31/02	KCI	ASBUILT FIELD DATA	11/01/03
BY NO.:			REVISIONS	

**PLAN & PROFILE**

LIBER 6057 FOLIO 28  
DATE 11/01/03  
600' SCALE MAP NO. 37 BLOCK NO. 18

**WATER EXTENSION PLAN**  
7125 TROY HILL DRIVE  
TROY HILL CORPORATE CENTER  
PARCEL A-13  
WATER PLANS  
CONTRACT NO. 14-4067-D

ZONED: M-1 TAX MAP: 37 GRID: 11 PARCEL 135  
ELECTION DISTRICT NO.: 1 HOWARD COUNTY, MARYLAND

SCALE AS SHOWN  
SHEET 2 OF 2

# PUBLIC WATER EXTENSION 7125 TROY HILL DRIVE PARCEL A-13

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CHECKBOX  AS-BUILT DATE: \_\_\_\_\_

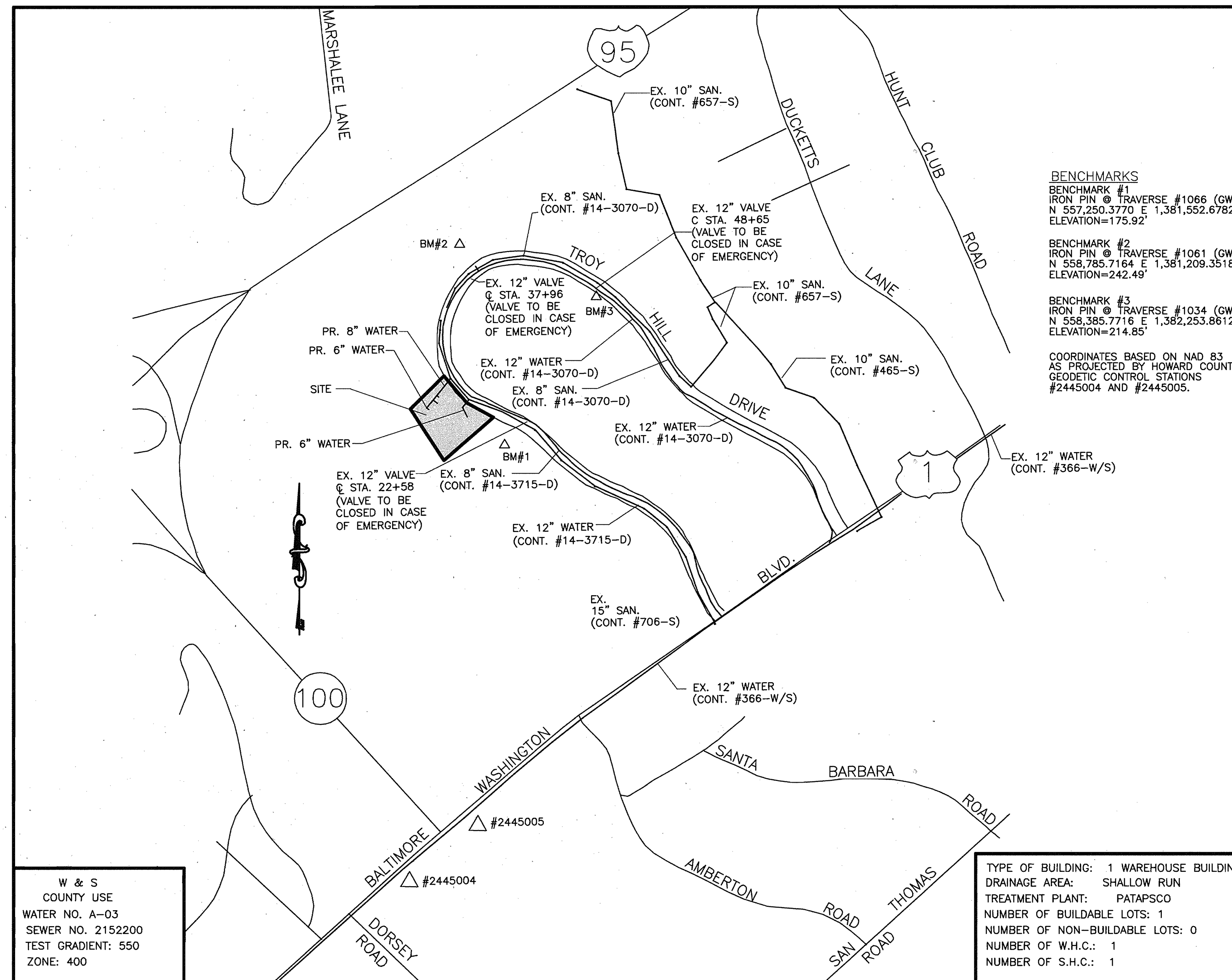
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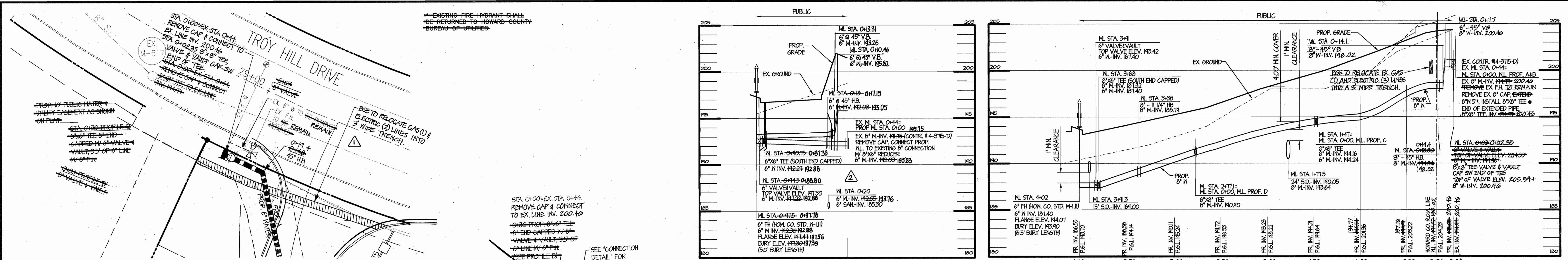
*John K. Roberts* 11/9/02  
HOWARD SOIL CONSERVATION DISTRICT DATE



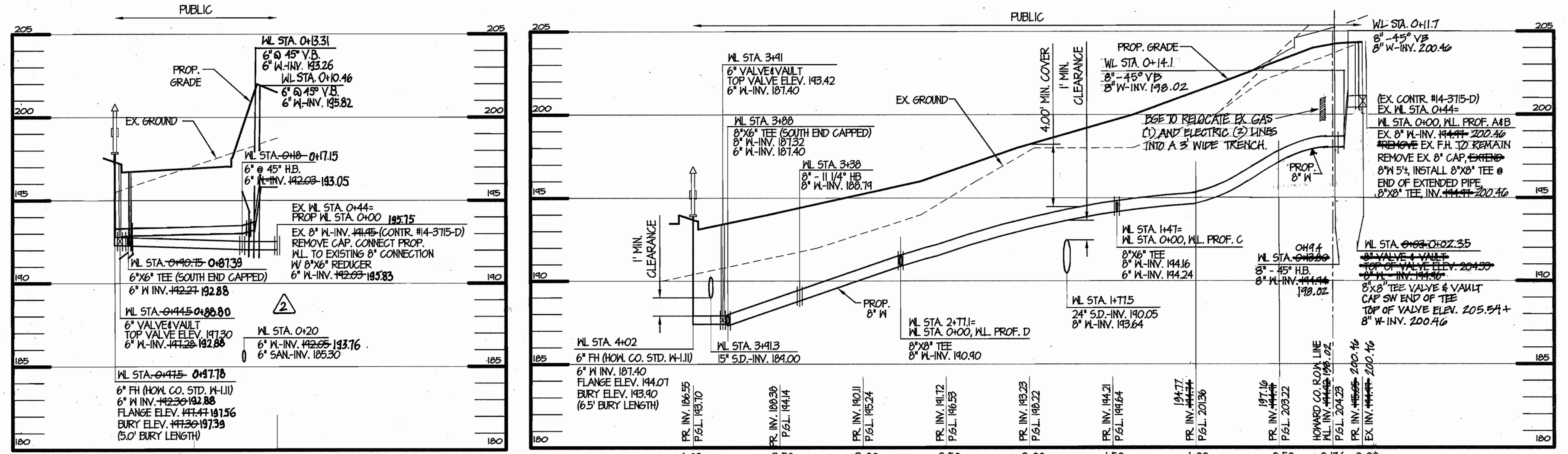
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DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND  <i>Ruth Bump</i> 11-12-02 CHIEF, BUREAU OF UTILITIES DATE	DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND  <i>[Signature]</i> 12/1/02 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE	MORRIS & FITCHE ASSOCIATES, INC. ENGINEERS, PLANNERS, SURVEYORS AND LANDSCAPE ARCHITECTS  8000 JUNCTION DRIVE SUITE 8 ANNAPOLIS, MARYLAND 20701 (410) 792-9792 or (301) 778-1890 FAX (410) 792-7395	STATE OF MARYLAND PIERO VAN MELLITS No. 21875 REGISTERED PROFESSIONAL ENGINEER DES: CAO/RLZ DRN: CAO/RLZ CHK: PVM DATE: 10/31/02	REVISIONS CAO/RLZ REVISE NORTH ENTRANCE AND WATER LINE BRS/RLZ REVISE WATER LINE AND SEWER LINE KCI/RLZ AS-BUILT FIELD DATA BY NO. REVISIONS DATE: 11/24/02	<b>TITLE SHEET</b>  600' SCALE MAP NO. 37 BLOCK NO. 18	WATER EXTENSION PLAN 7125 TROY HILL DRIVE TROY HILL CORPORATE CENTER PARCEL A-13 WATER PLANS CONTRACT NO. 14-4067-D LIBER 6057 FOLIO 28 ZONED: M-1 TAX MAP: 37 GRID: 11 PARCEL 135 ELECTION DISTRICT NO.: 1 HOWARD COUNTY, MARYLAND	SCALE AS SHOWN  SHEET 1 OF 2
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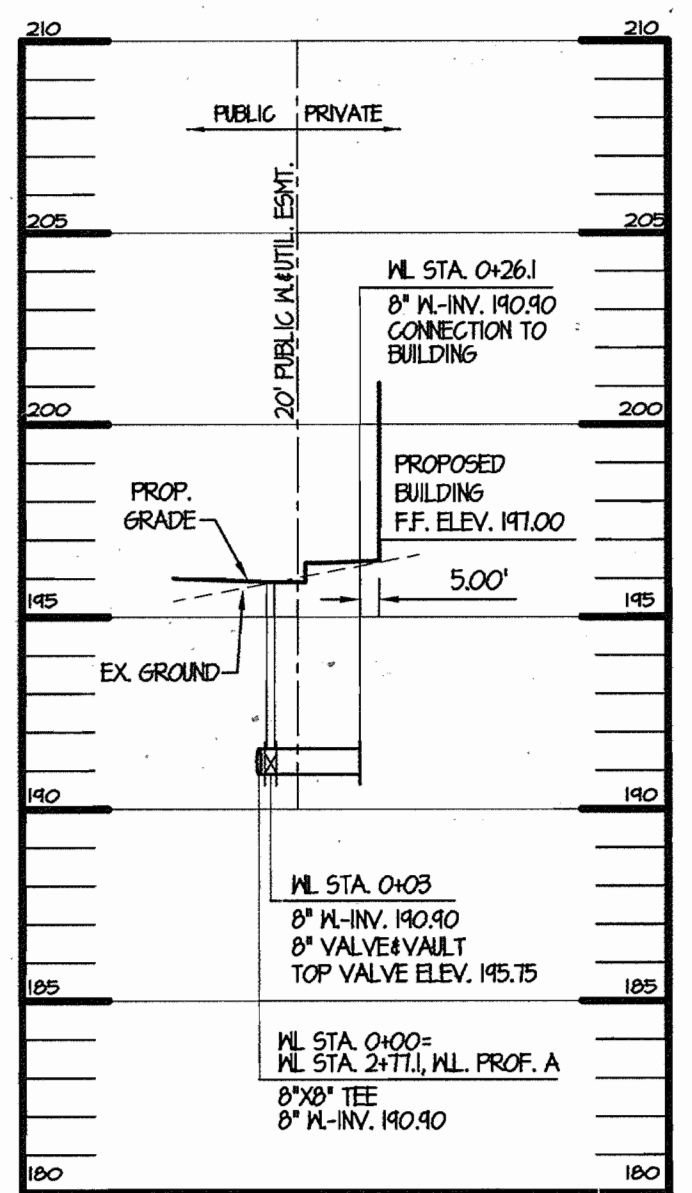


**CONNECTION DETAIL**  
SCALE: 1"=20'

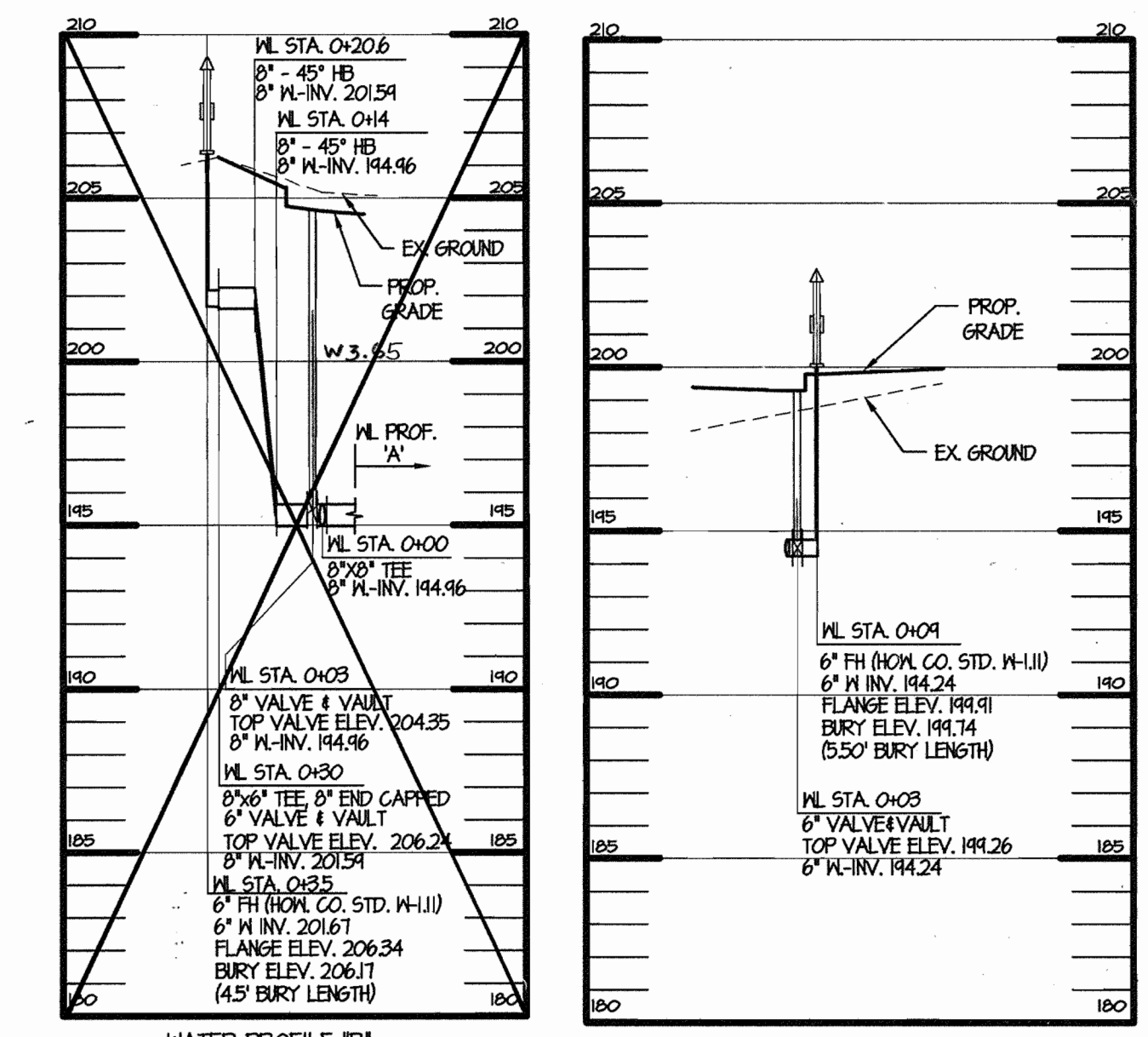


**LEGEND**

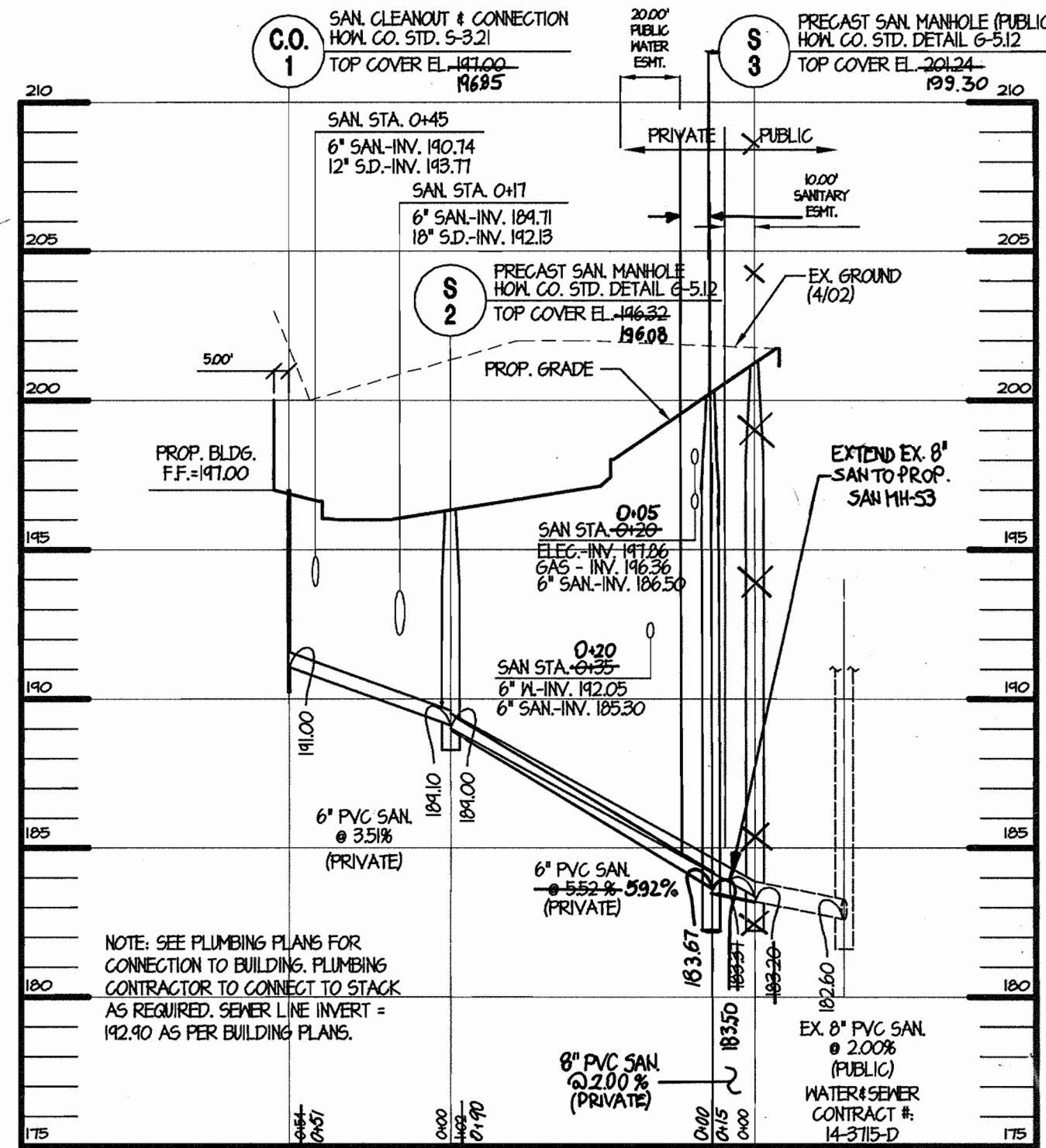
- PROPERTY LINE
- 50' BAL.
- EXISTING FLOORPLAN
- EXISTING WETLAND
- EXISTING WETLAND BUFFER
- EXISTING EASEMENT
- EXISTING STREAM
- EXISTING STREAM BUFFER
- EXISTING 10' CONTOUR
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- PROPOSED STORM DRAIN
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- PROPOSED PRIVATE WATER LINE
- PROPOSED FIRE HYDRANT/WATER VALVE
- PROPOSED EASEMENT



**WATER PROFILE 1D**  
SCALE: HORIZONTAL 1"=50'  
VERTICAL 1"=5'



**WATER PROFILE 1A**  
SCALE: HORIZONTAL 1"=50'  
VERTICAL 1"=5'



**SANITARY SEWER PROFILE**  
SCALE: HOR. 1"=50'  
VERT. 1"=5'

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**DEPARTMENT OF PUBLIC WORKS**  
HOWARD COUNTY, MARYLAND

*Rhoton* 11-12-02  
CHIEF, BUREAU OF UTILITIES DATE

**DEPARTMENT OF PLANNING & ZONING**  
HOWARD COUNTY, MARYLAND

*[Signature]* 12/2/02  
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

**MRA**  
MORRIS & FITCH ASSOCIATES, INC.  
ENGINEERS, PLANNERS, SURVEYORS AND LANDSCAPE ARCHITECTS

9090 JUNCTION DRIVE SUITE 9  
ANNAPOLIS, MARYLAND 20701  
(410) 782-9792 or (301) 778-1890  
FAX (410) 782-7395

**STATE OF MARYLAND**  
PIERO WIN MELLITS  
No. 21875  
REGISTERED PROFESSIONAL ENGINEER

DES: CAD/RLZ	CAO	REVISION NORTH ENTRANCE AND WATER LINE	05/15/03
DRN: CAD/RLZ	BR5	REVISION WATER LINE AND SEWER LINE	05/17/04
CHK: PVM			
DATE: 10/31/02	KCL	ASBUILT FIELD DATA	11/21/03
BY NO.		REVISIONS	

**PLAN & PROFILE**

600' SCALE MAP NO. 37 BLOCK NO. 18

**WATER EXTENSION PLAN**  
7125 TROY HILL DRIVE  
TROY HILL CORPORATE CENTER  
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CONTRACT NO. 14-4067-D

LIBER 6057 FOLIO 28  
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ELECTION DISTRICT NO.: 1 HOWARD COUNTY, MARYLAND

SCALE AS SHOWN  
SHEET 2 OF 2