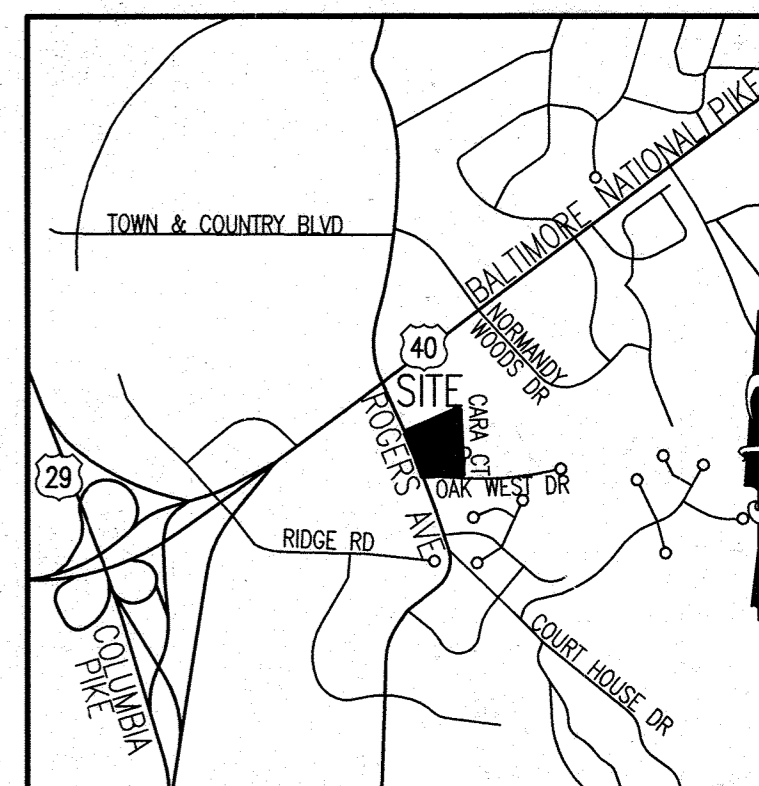


SHEET INDEX

1	TITLE SHEET
2	PLAN OF WATER AND SEWER MAINS
3	PROFILE OF WATER AND SEWER MAINS

FINAL WATER AND SEWER EXTENSION ALTA AT REGENCY CREST AGE RESTRICTED ADULT HOUSING TAX MAP 25, GRID 1, PARCEL 1 2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND CONTRACT NO. 14-4560-D



VICINITY MAP
SCALE: 1" = 2000'
HOWARD COUNTY ADC MAP 12 E 7
COPYRIGHT ADC THE MAP PEOPLE
PERMITTED USE NO. 2071188

BENCH MARK

HOWARD COUNTY CONTROL
STATION 06C6
N 609,143.487
E 1,270,776.502
ELEV. 655.46

HOWARD COUNTY CONTROL
STATION 06C4
N 610,135.318
E 1,272,833.911
ELEV. 815.20

QUANTITIES

ITEMS	QUANTITIES ESTIMATED	QUANTITIES	AS-BUILT TYPE	MANUFACTURER/SUPPLIER
8"X4" TEE	3 EA.	3 EA.	MJ	SIGMA CORP
4" WATER	30 LF	30 LF	DIP CL54	GRIFFIN PIPE
8" WATER	1188 LF	1,150 LF	DIP CL54	GRIFFIN PIPE
8" VALVE	4 EA.	4 EA.	GATE VALVE	MUELLER CO.
8"X8" TEE	2 EA.	2 EA.	MJ	SIGMA CORP
8"X6" TEE	4 EA.	4 EA.	HYDRANT	SIGMA CORP
8"X6" REDUCER	1 EA.	1 EA.	MJ	SIGMA CORP
8" PLUG & BUTTRESS	2 EA.	2 EA.	MJ	SIGMA CORP
8" 1/8 HB	9 EA.	9 EA.	MJ	SIGMA CORP
8" 1/16 HB	2 EA.	2 EA.	MJ	SIGMA CORP
8" 1/32 HB	1 EA.	1 EA.	MJ	SIGMA CORP
8" 1/16 VB	2 EA.	2 EA.	MJ	SIGMA CORP
8" 1/32 VB	5 EA.	4 EA.	MJ	SIGMA CORP
6"X6" TS&V	1 EA.	1 EA.	GATE VALVE/SS	MUELLER CO.
8"X8" TS&V	1 EA.	2 EA.	GATE VALVE/SS SLEEVE	MUELLER CO.
FIRE HYDRANT (6.5')	1 EA.	1 EA.	ORANGE	MUELLER CO.
6" WATER	50 LF	110 LF	DIP	GRIFFIN PIPE
6" VALVE	4 EA.	4 EA.	GATE VALVE	MUELLER CO.
SEWER MANHOLES	2 EA.	7 EA.	PRECAST	FREDERICK PRECAST
8" SAN.	79 LF.	380 LF	SDR35	JM EAGLE
6" SAN.	10 LF.	74 LF	SDR35	JM EAGLE
4" VALVE	3 EA.	3 EA.	GATE VALVE	MUELLER CO.
FIRE HYDRANT (5.0')	2 EA.	2 EA.	ORANGE	MUELLER CO.

NAME OF UTILITY CONTRACTOR : CTG

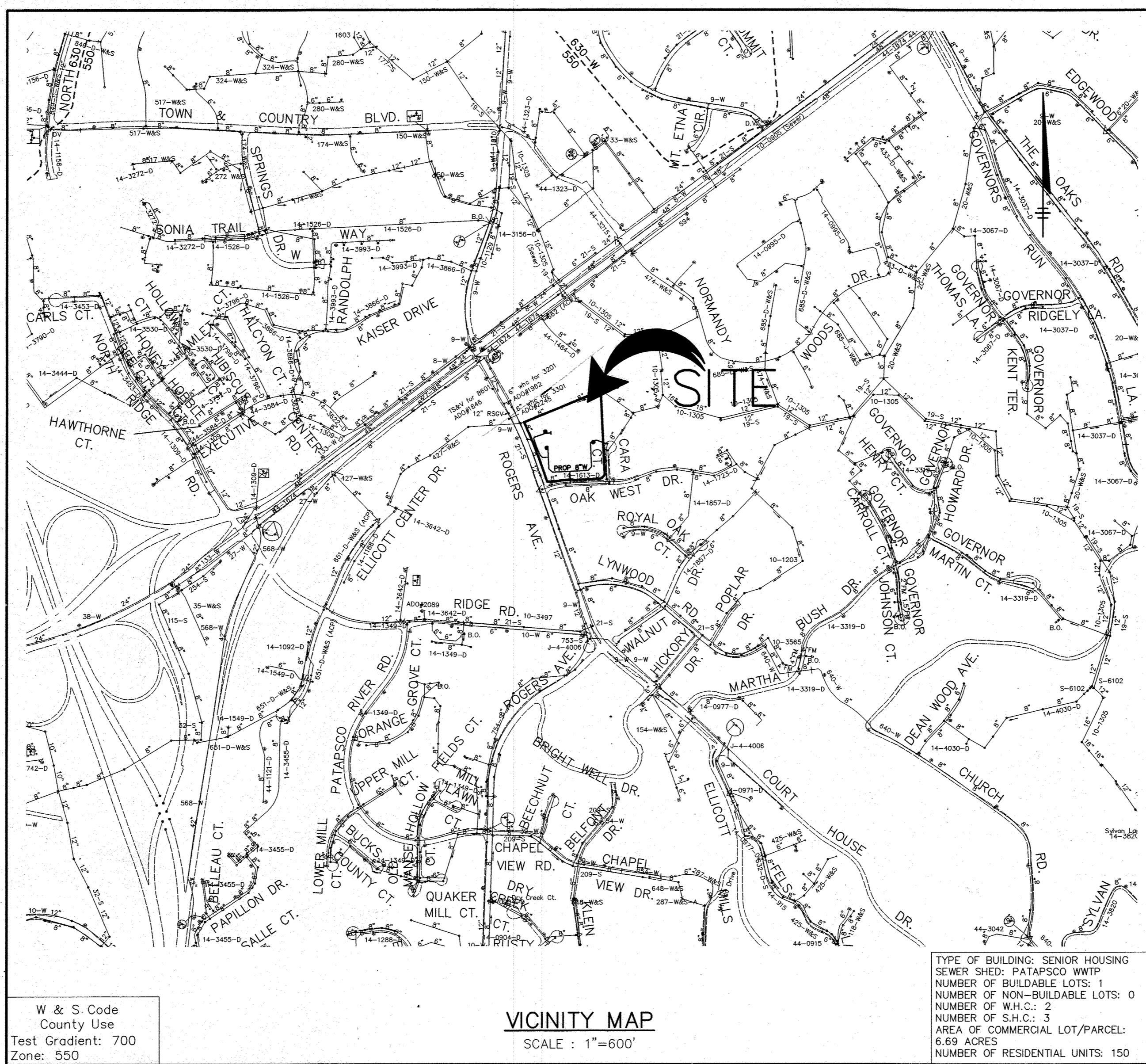
Sediment control measures for this contract will be implemented in accordance with Section 219 of the Specifications and as shown on F-02-178

CHECKBOX	
AS-BUILT DATE	
SURVEY AND DRAFTING DIVISION	

OWNER:
CENTURY HOLDING, LLC
3311 ROGERS AVENUE
ELLICOTT CITY, MD 21043-4105

DEVELOPER:
WOOD PARTNERS
ATTN: MR. ANTHONY MORSE, PE
8150 LEESBURG PIKE, SUITE 501
VIENNA, VA 22182
P: (703) 760-5070
F: (703) 760-0779

This plan is approved for soil erosion and sediment control by the Howard Soil Conservation District.
John H. Roberts 10/6/08
HOWARD SOIL CONSERVATION DISTRICT



VICINITY MAP
SCALE: 1" = 600'

TYPE OF BUILDING: SENIOR HOUSING
SEWER SHED: PATAPSCO WWTP
NUMBER OF BUILDABLE LOTS: 1
NUMBER OF NON-BUILDABLE LOTS: 0
NUMBER OF W.H.C.: 2
NUMBER OF S.H.C.: 3
AREA OF COMMERCIAL LOT/PARCEL: 6.69 ACRES
NUMBER OF RESIDENTIAL UNITS: 150

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 service. Any damage incurred shall be repaired immediately to the satisfaction of the Engineer at the Contractor's expense.
- The existing topography is taken from field survey prepared by BENCHMARK ENGINEERING & verified by PHR+A DECEMBER, 2007. Boundary survey prepared by BENCHMARK ENGINEERING & verified by PHR+A.
- The coordinates shown herein are based upon the Howard County Geodetic Control which is based upon the Maryland State Plane Coordinate System. Howard County Monument Nos. 291a and 291d were used for this project.
- All horizontal and 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 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.
- 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.
- 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 (Emergency) 410-685-1400
Bureau of Utilities 410-313-4900
Colonial Pipeline Co. 410-795-1390
Miss Utility 1-800-257-7777
State Highway Administration 410-531-5533
Verizon 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 for 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.
- Contractor shall take necessary precautions and safety measures to guard against overhead lines that will interfere with excavating equipment during construction.
- No wetlands are present on site.
- The water meter shall be located inside the building.
- The Site Development Plan for this project is included in SDP-08-68.

SEWER NOTES

- All sewer mains shall be D.I.P. and 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 covers, Standard Detail G5.52. Where watertight manhole frames and covers is 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 cellar cannot be served

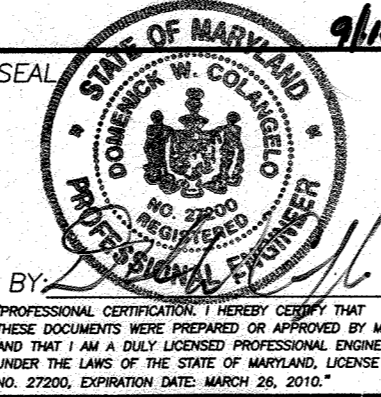
WATER NOTES

- All water mains shall be DIP Class 34 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 the 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 1000 and 1005 of the Standard Specifications.
- The contractor shall not operate any water main valves on the existing water system.
- All water house connections shall be for inside meter setting unless otherwise notes on plans or in specifications.

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
John H. Roberts
CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND
John H. Roberts
CHIEF, DEVELOPMENT ENGINEERING DIVISION

Patton Harris Rust & Associates, PC
Engineers, Surveyors, Planners, Landscape Architects.
8818 Centre Park Drive
Columbia, MD 21045
T 410.997.8900
F 410.997.9282



DES: DWC
DRN: EMR
FILE:
DATE: 9/16/08

AS-BUILT REVISIONS	12-28-10
REV. QUANTITIES	1/25/10
REVISION	DATE

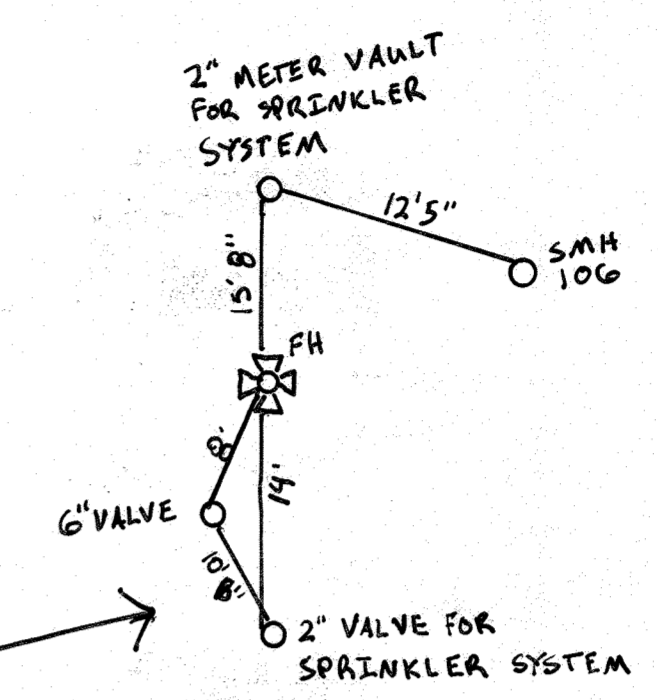
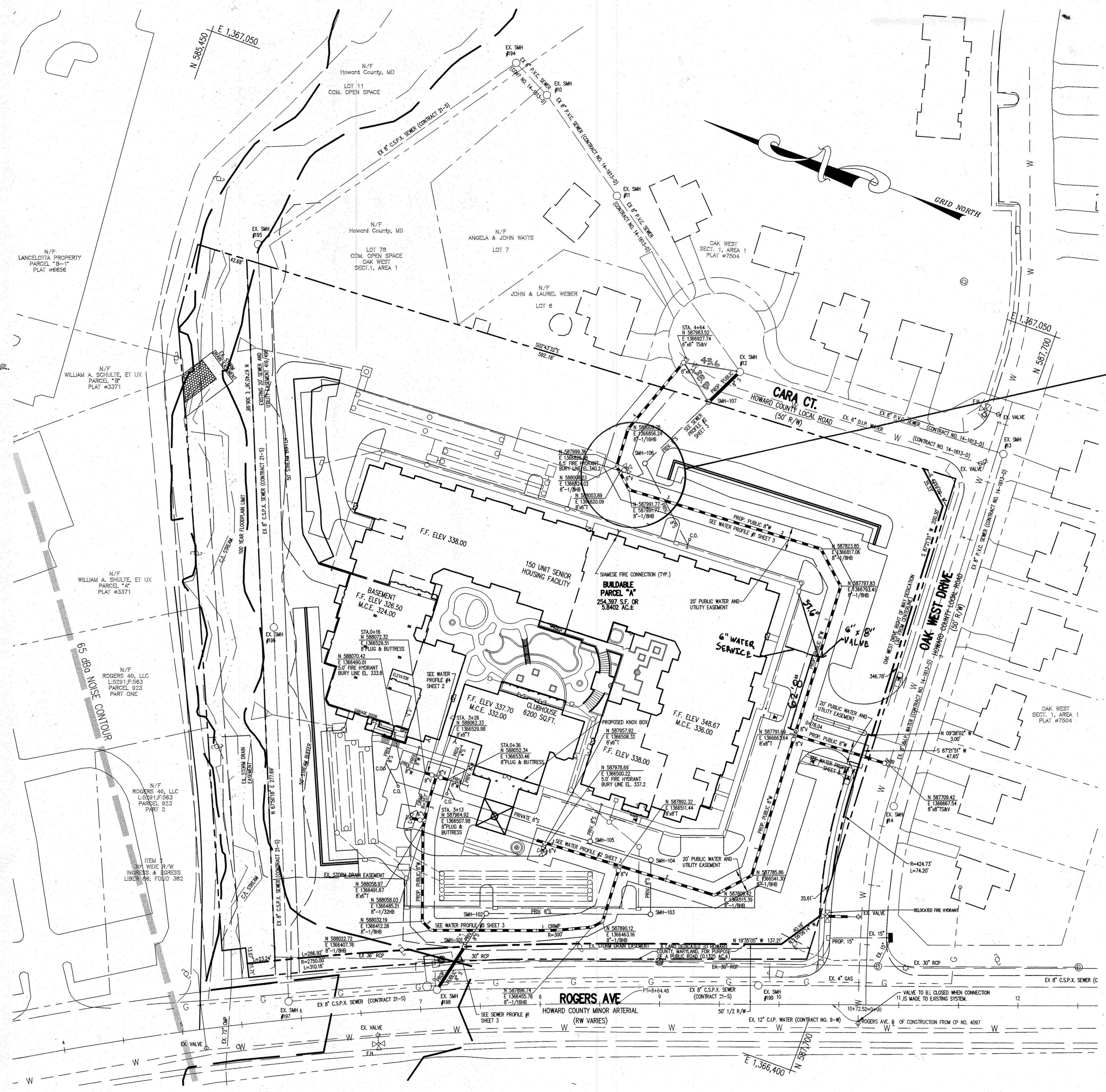
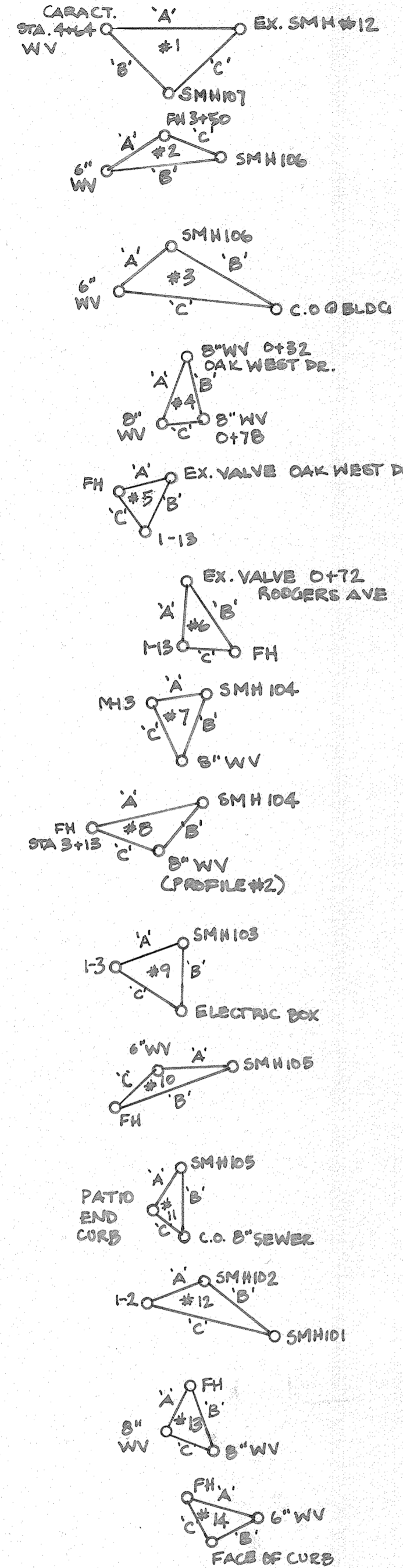
600' SCALE MAP NO. 25
BLOCK NO. 1

ALTA AT REGENCY CREST
AGE RESTRICTED ADULT HOUSING
TAX MAP 25, GRID 1, PARCEL 1
2nd ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
CONTRACT NO. 14-4560-D

SCALE AS SHOWN
SHEET 1 OF 3

AS-BUILT DATA

- #1
A - 43.5'
B - 39'
C - 37'
- #2
A - 12'
B - 25'
C - 14'
- #3
A - 25'
B - 79'
C - 80'
- #4
A - 81'
B - 79'
C - 6'
- #5
A - 27'
B - 31'
C - 18'
- #6
A - 77'
B - 92'
C - 18'
- #7
A - 13'
B - 28'
C - 25'
- #8
A - 86'
B - 25'
C - 63'
- #9
A - 12'
B - 31'
C - 21'
- #10
A - 29'
B - 38'
C - 9'
- #11
A - 24'
B - 32'
C - 8'
- #12
A - 12'
B - 30'
C - 42'
- #13
A - 40'
B - 37'
C - 4'
- #14
A - 10'
B - 6'
C - 4'



LEGEND

PROPERTY LINE	---
PROPOSED WATER MAIN	---
PROPOSED TEE	⊥
PROPOSED VALVE	○
PROPOSED 1/8" HB	○
PROPOSED FIRE HYDRANT	⊗
PROPOSED SEWER MAIN	---
PROPOSED SEWER MANHOLE	○
EXISTING WATER MAIN	---
EXISTING SEWER MANHOLE	○
EXISTING SEWER MAIN	---
EXISTING STORM DRAIN PIPE	---
100 YEAR FLOODPLAIN	---

PLAN
SCALE: 1" = 50'

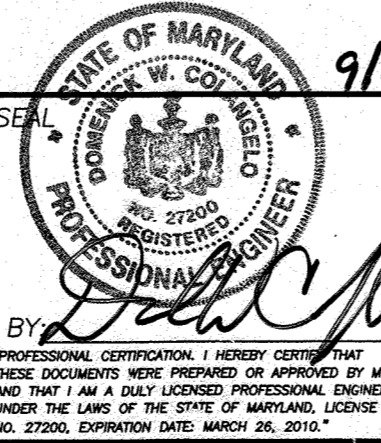
DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

S. J. Green
CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND

[Signature]
CHIEF, DEVELOPMENT ENGINEERING DIVISION

Patton Harris Rust & Associates, PC
Engineers, Surveyors, Planners, Landscape Architects.
8818 Centre Park Drive
Columbia, MD 21045
T 410.997.9900
F 410.997.9282



DES: DWC
DRN: EMR
FILE:
DATE: 9/16/08

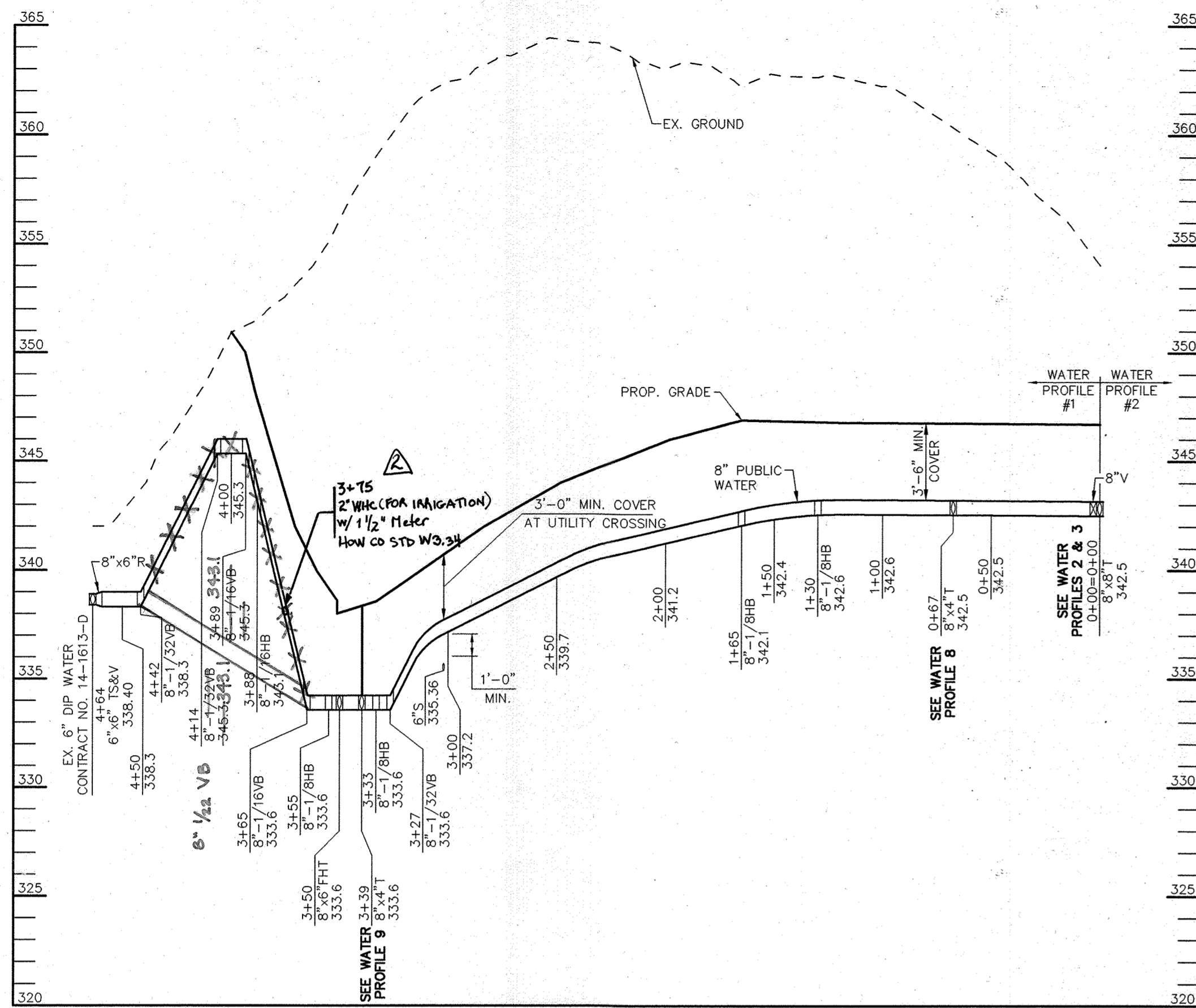
BY	NO.	REVISION	DATE
K.C.I.	1	AS-BUILT REVISIONS	12-20-10

PLAN OF WATER AND SEWER MAINS

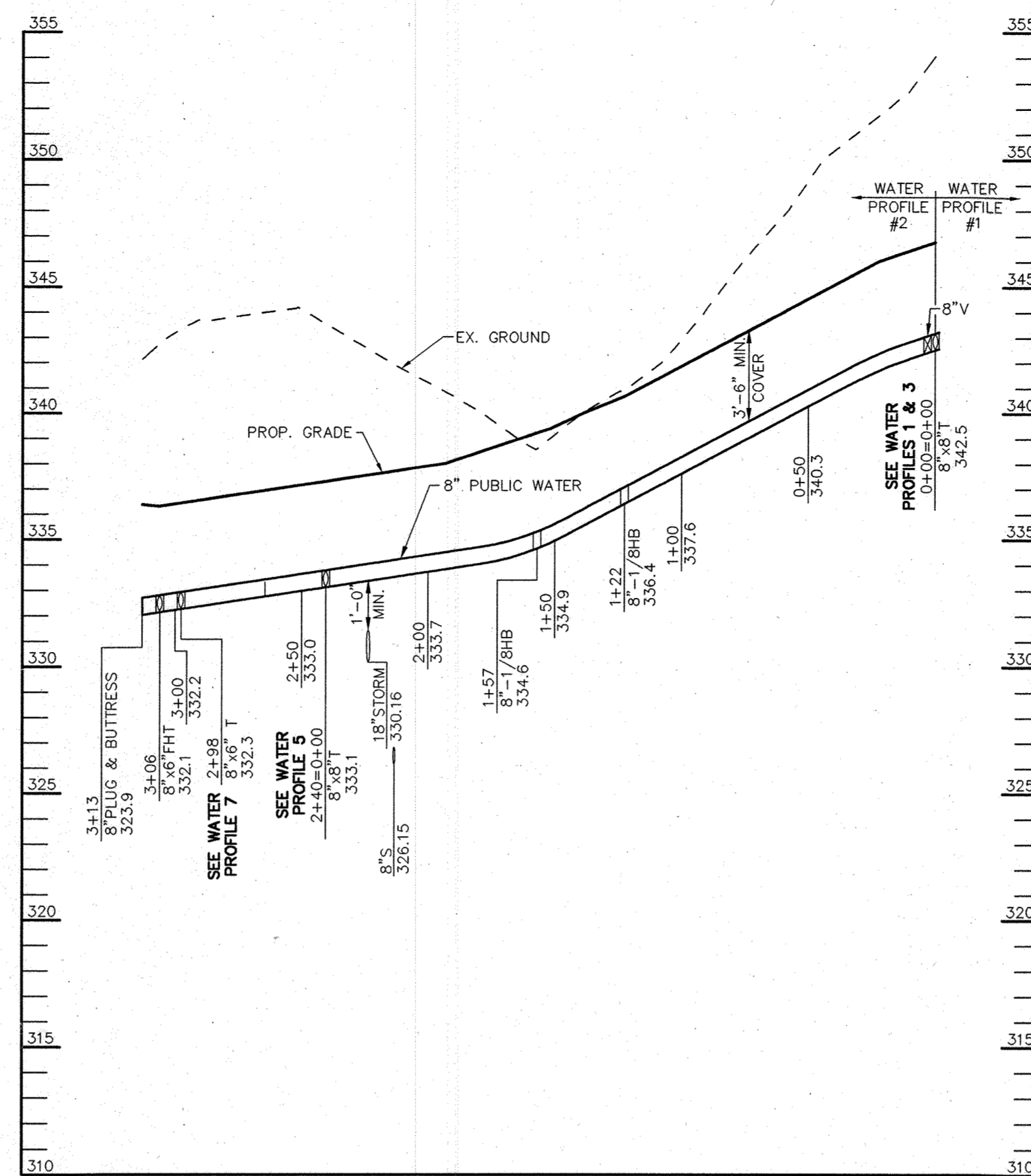
600' SCALE MAP NO. 25 BLOCK NO. 1

ALTA AT REGENCY CREST
AGE RESTRICTED ADULT HOUSING
TAX MPA 25, GRID 1, PARCEL 1
2nd ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
CONTRACT NO. 14-4560-D

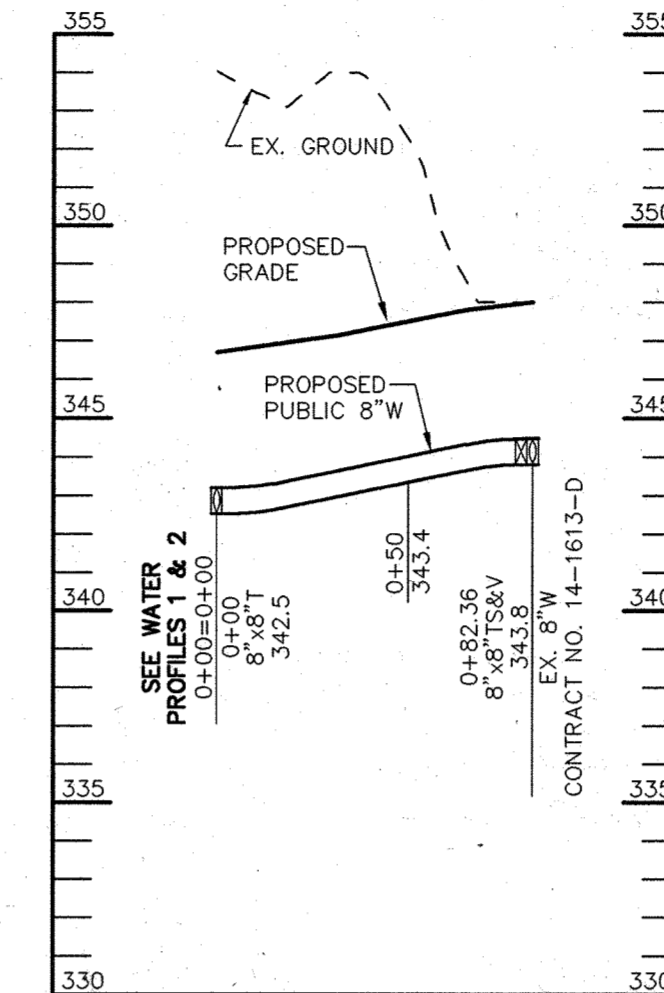
SCALE AS SHOWN
SHEET 2 OF 3



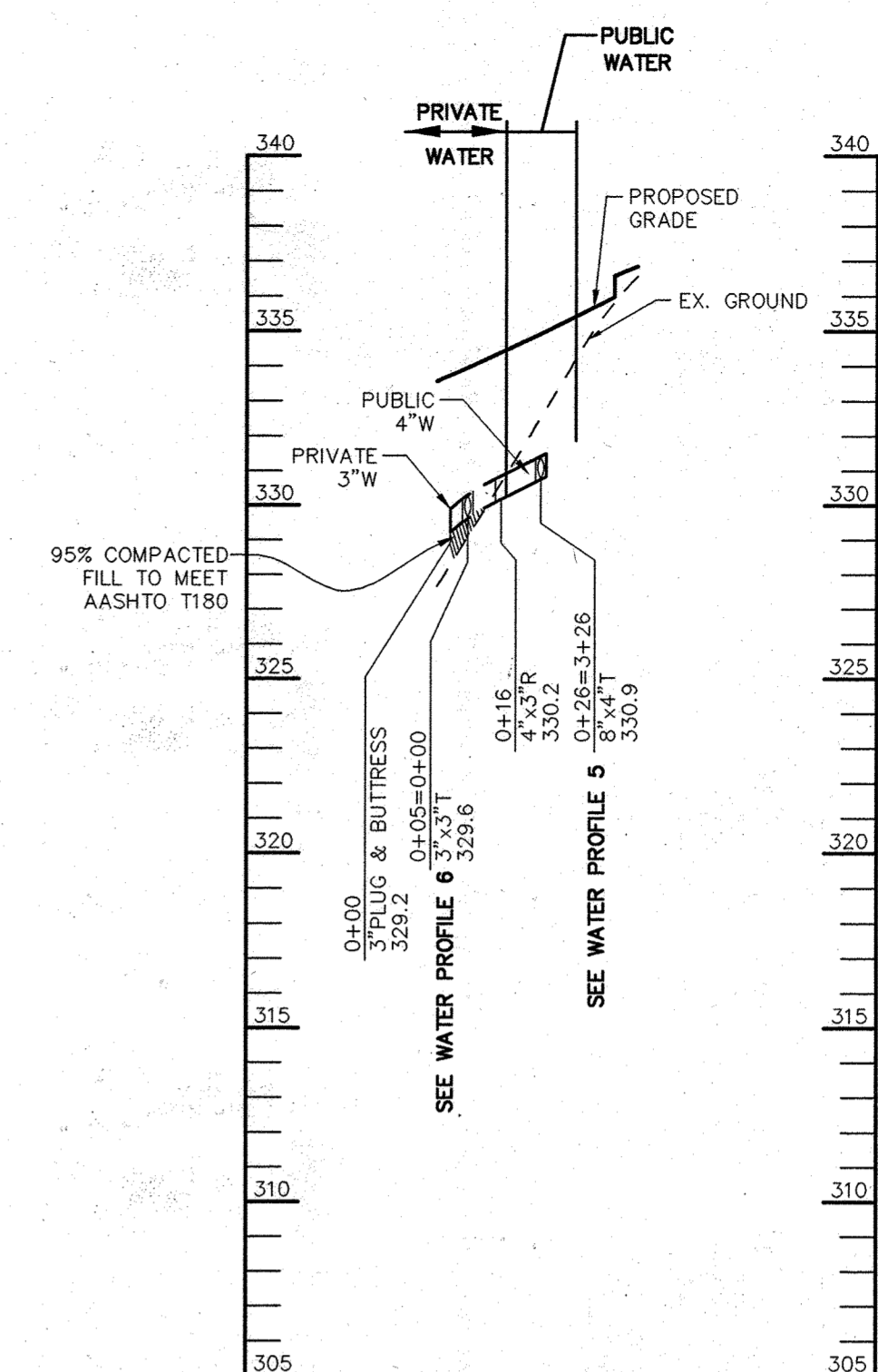
WATER PROFILE #1



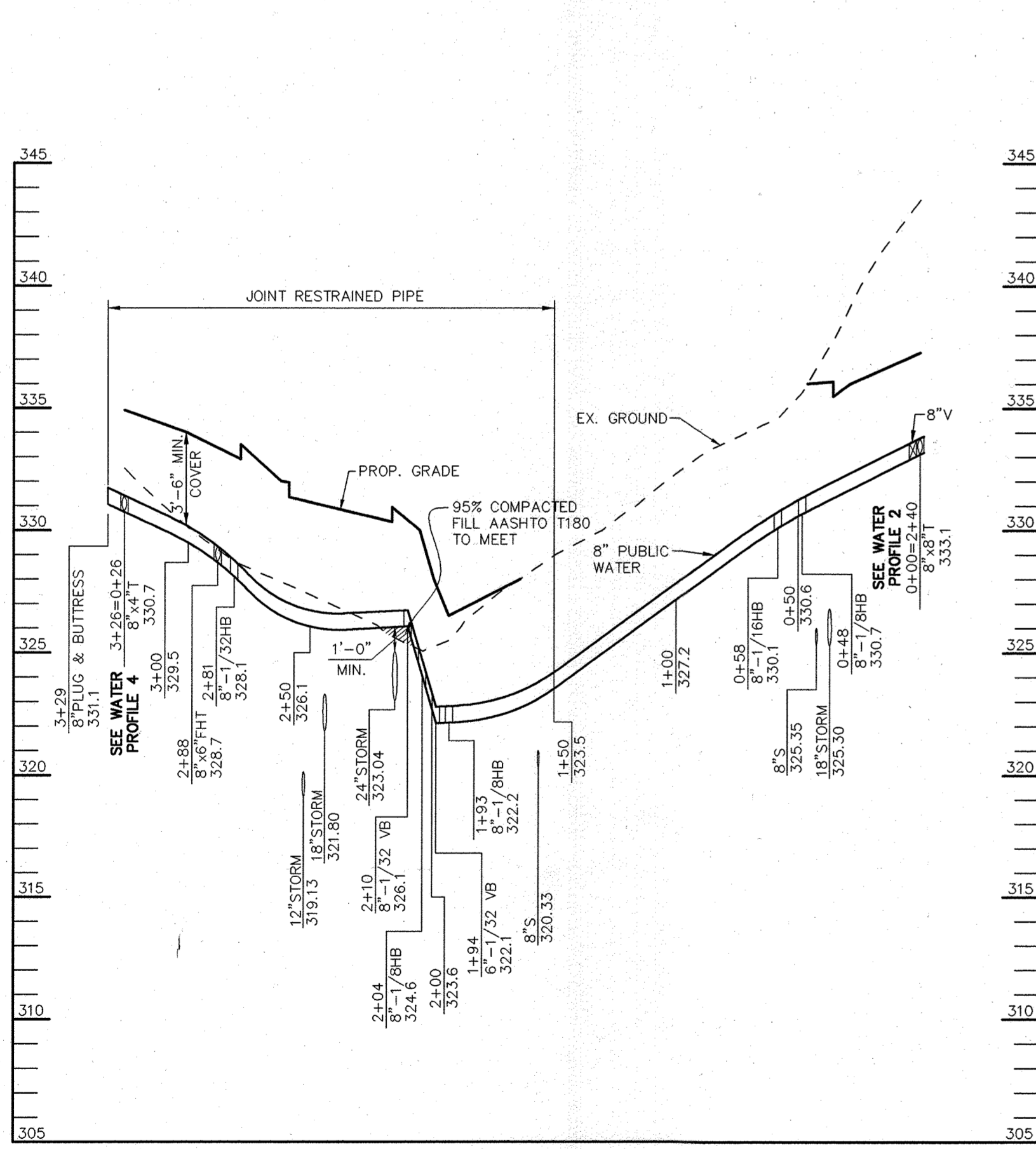
WATER PROFILE #2



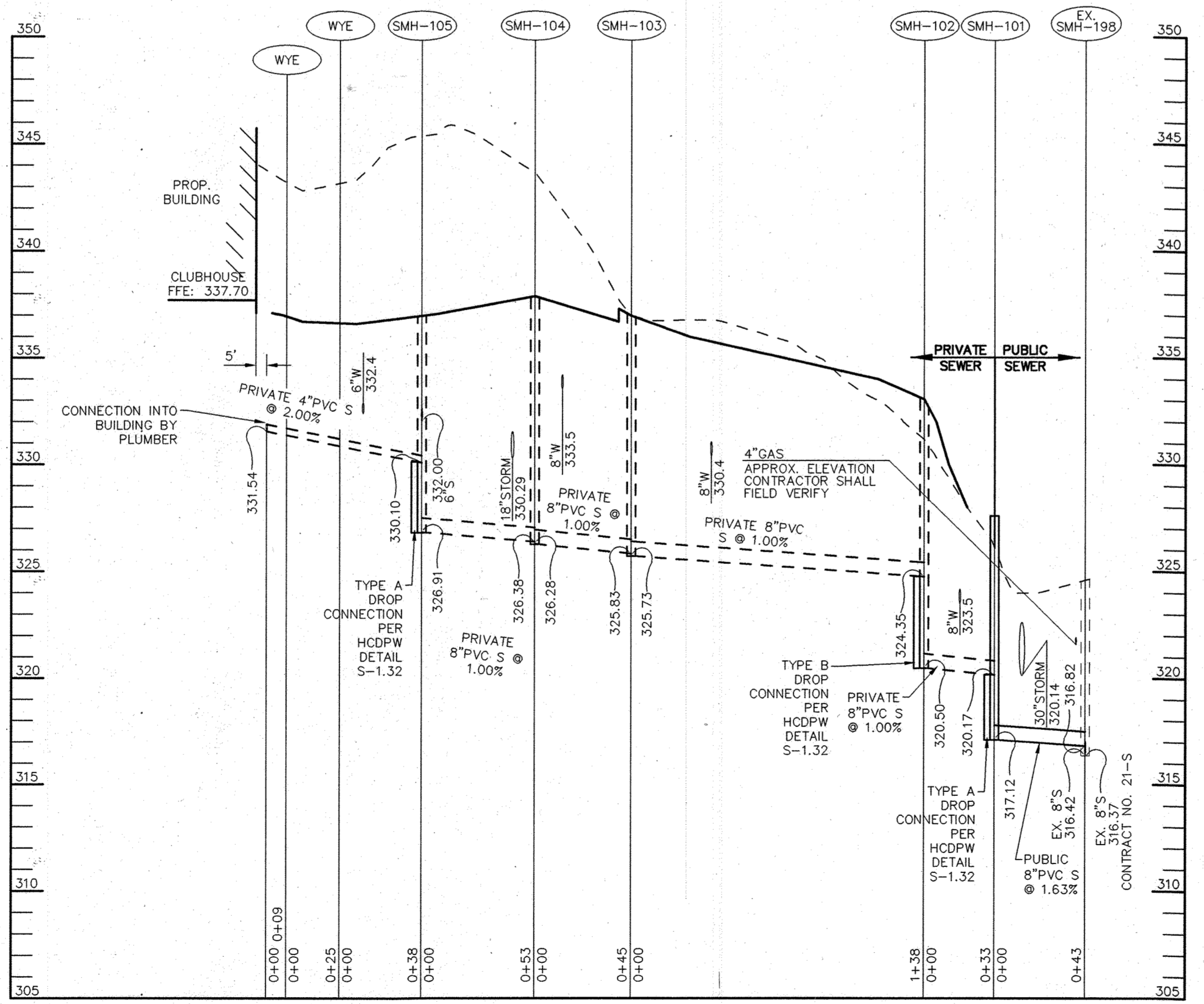
WATER PROFILE #3



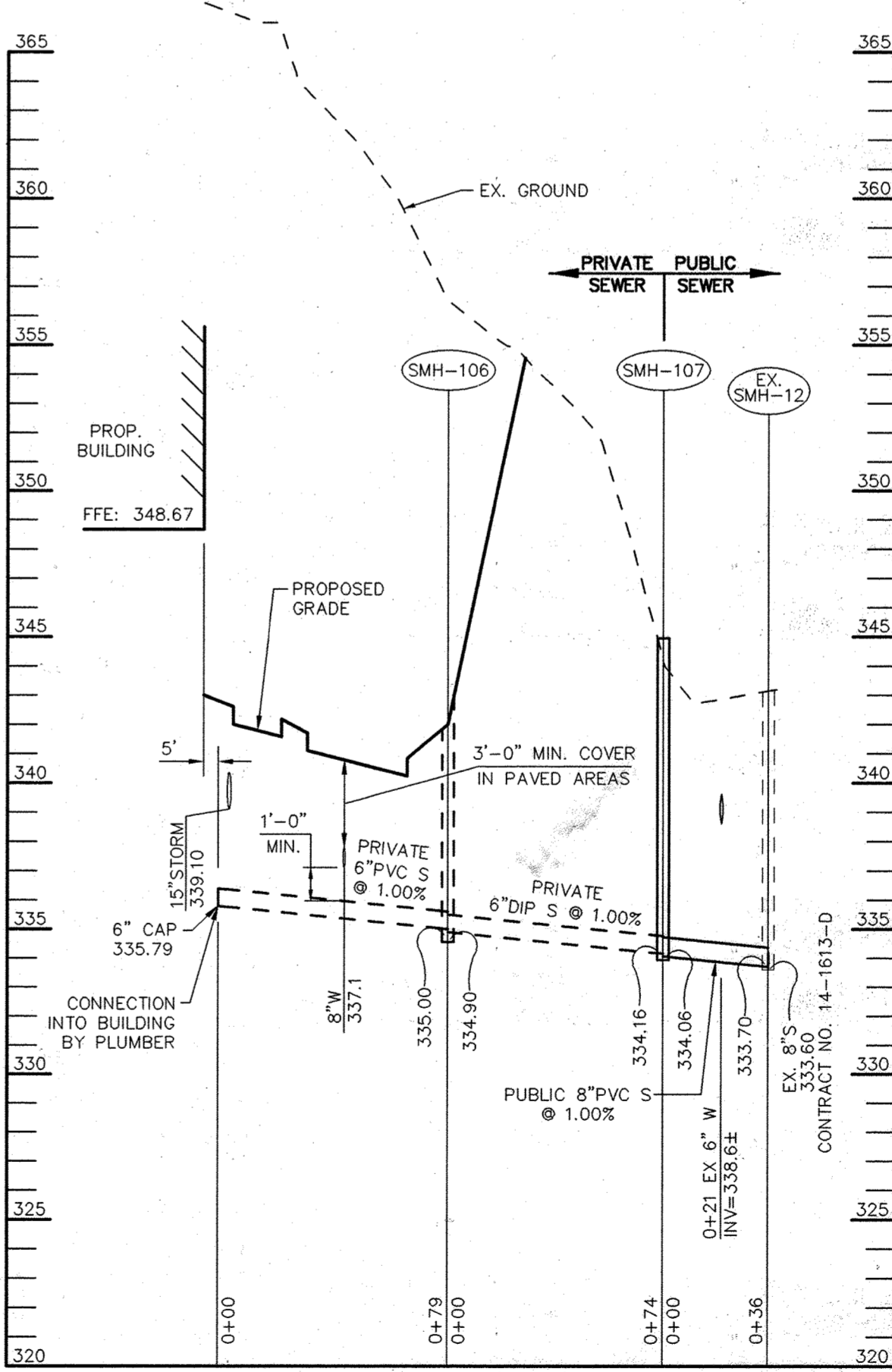
WATER PROFILE #4



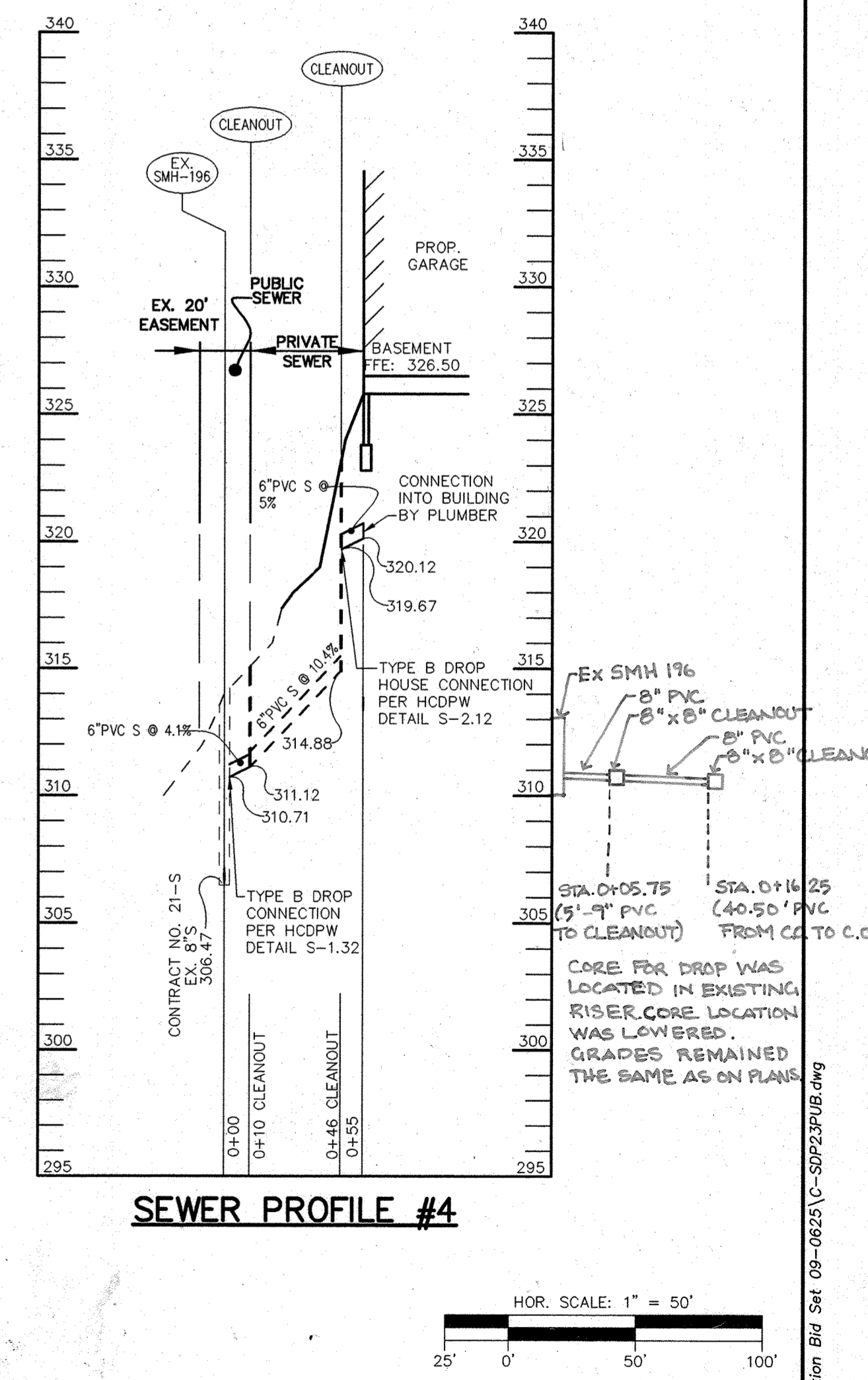
WATER PROFILE #5



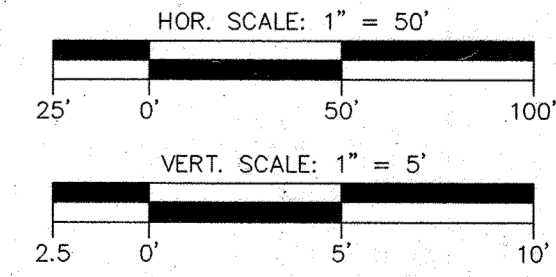
SEWER PROFILE #1



SEWER PROFILE #2



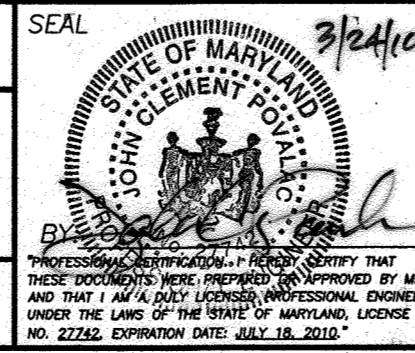
SEWER PROFILE #4



DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND

Patton Harris Rust & Associates, PC
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8818 Centre Park Drive
Columbia, MD 21045
T 410.997.8900
F 410.997.9282



DES:	DWC		
DRN:	EMR		
FILE:	JAR	AS BUILT REVISIONS	1-25-11
	JAR	ADDED 2" WHC AND 1 1/2" METER FOR IRRIGATION	9/7/10
LNB:	1	REVISED PROFILES TO MATCH REVISED LAYOUT	1/25/10
DATE:	3/25/10		
BY:	NO.	REVISION	DATE

PROFILE OF
WATER AND SEWER MAINS

600' SCALE MAP NO. 25 BLOCK NO. 1

ALTA AT REGENCY CREST
AGE RESTRICTED ADULT HOUSING
TAX MPA 25, GRID 1, PARCEL 1
2nd ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
CONTRACT NO. 14-4560-D

SCALE AS SHOWN
SHEET 3 OF 3

4/1/10
DATE

4.8.10
DATE

P:\VPROJETS\15661\1-0\Plans\Construction Big Set 09-0625\15-5022\3PUB.dwg