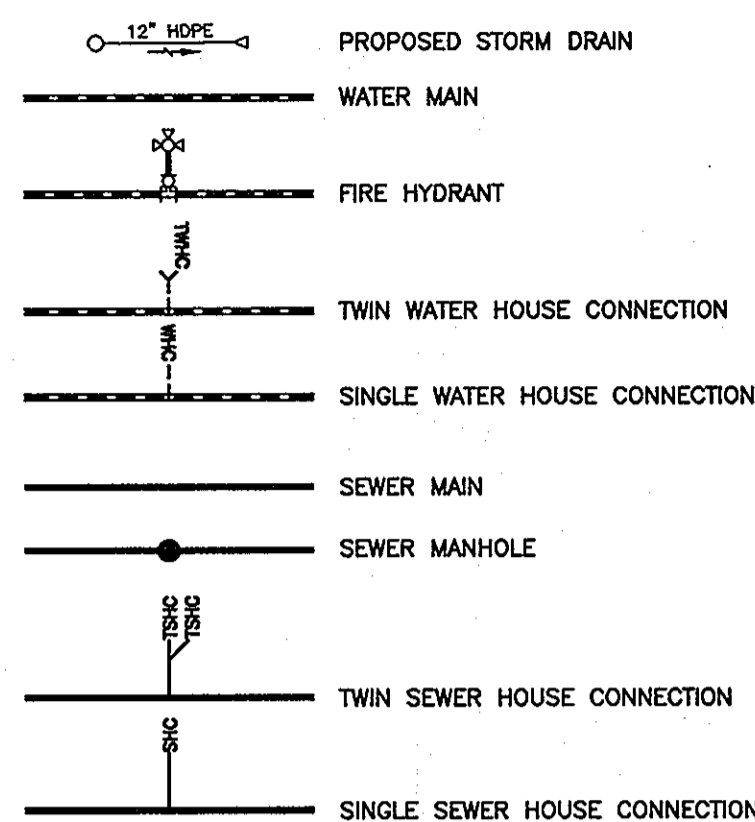


# SIMPSON MILL - PHASE 1

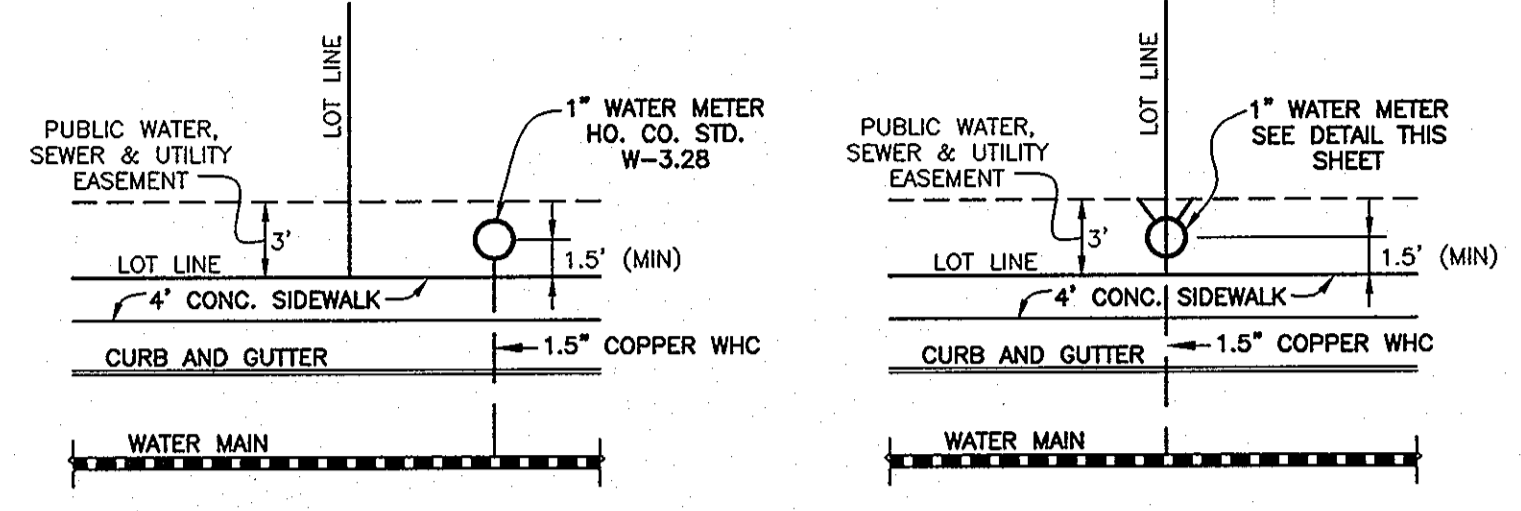
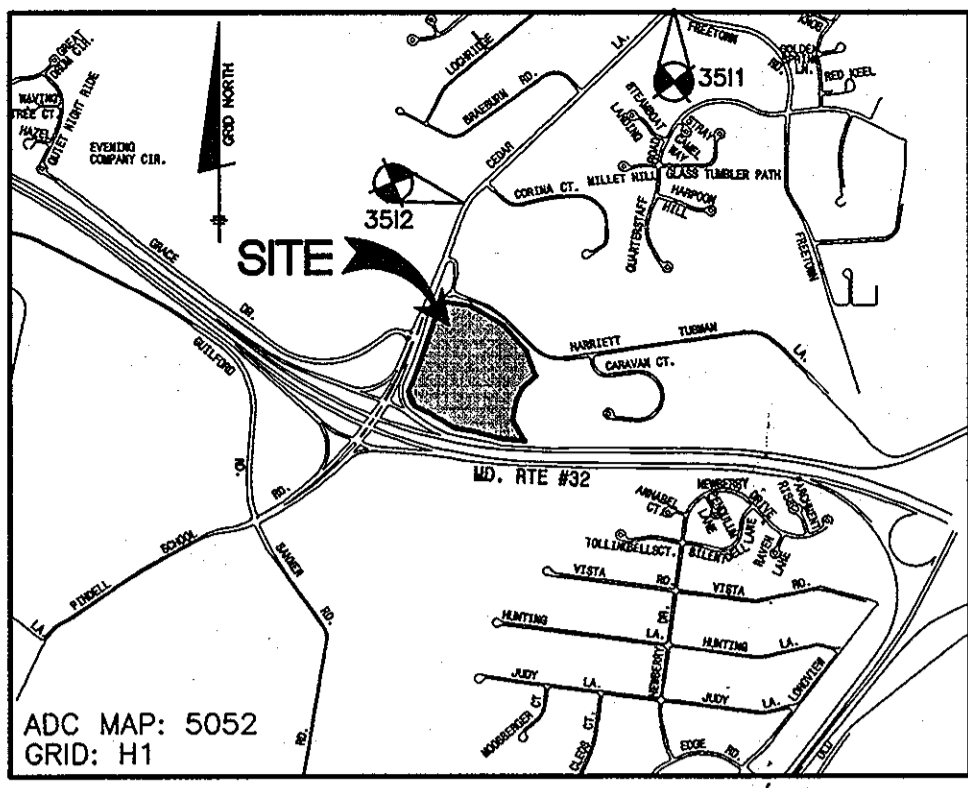
## PUBLIC WATER AND PUBLIC SEWER CONSTRUCTION PLANS

### CONTRACT NO. 34-4373-D

#### LEGEND

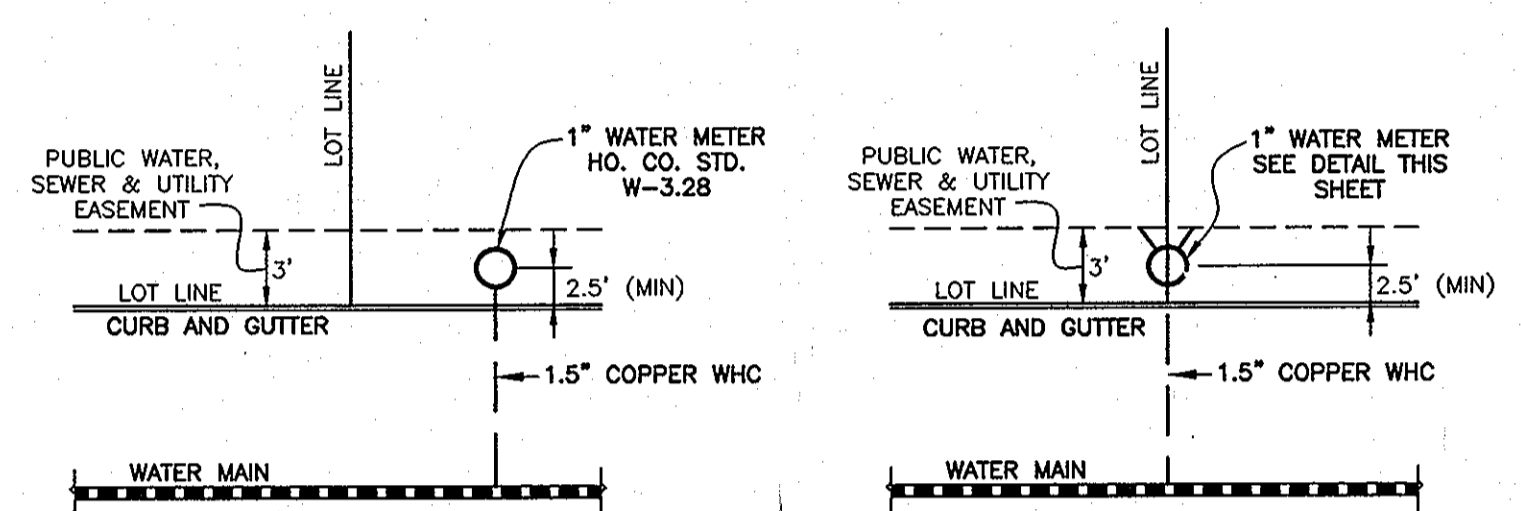


BENCH MARKS NAD'83	
HO. CO. #3511 STAMPED DISC SET ON TOP OF A 3" DEEP COLUMN OF CONCRETE 2" BELOW SURFACE. N 557110.3963' E 1344893.6204' ELEV. 400.034'	
HO. CO. #3512 STAMPED DISC SET ON TOP OF A 3" DEEP COLUMN OF CONCRETE 2" BELOW SURFACE. N 555100.7743' E 1342732.9971' ELEV. 329.719'	



TYPICAL SINGLE WATER HOUSE CONNECTION w/FRONT SIDEWALK (OUTSIDE METER SETTING) NOT TO SCALE

TYPICAL TWIN WATER HOUSE CONNECTION w/FRONT SIDEWALK (OUTSIDE METER SETTING) NOT TO SCALE

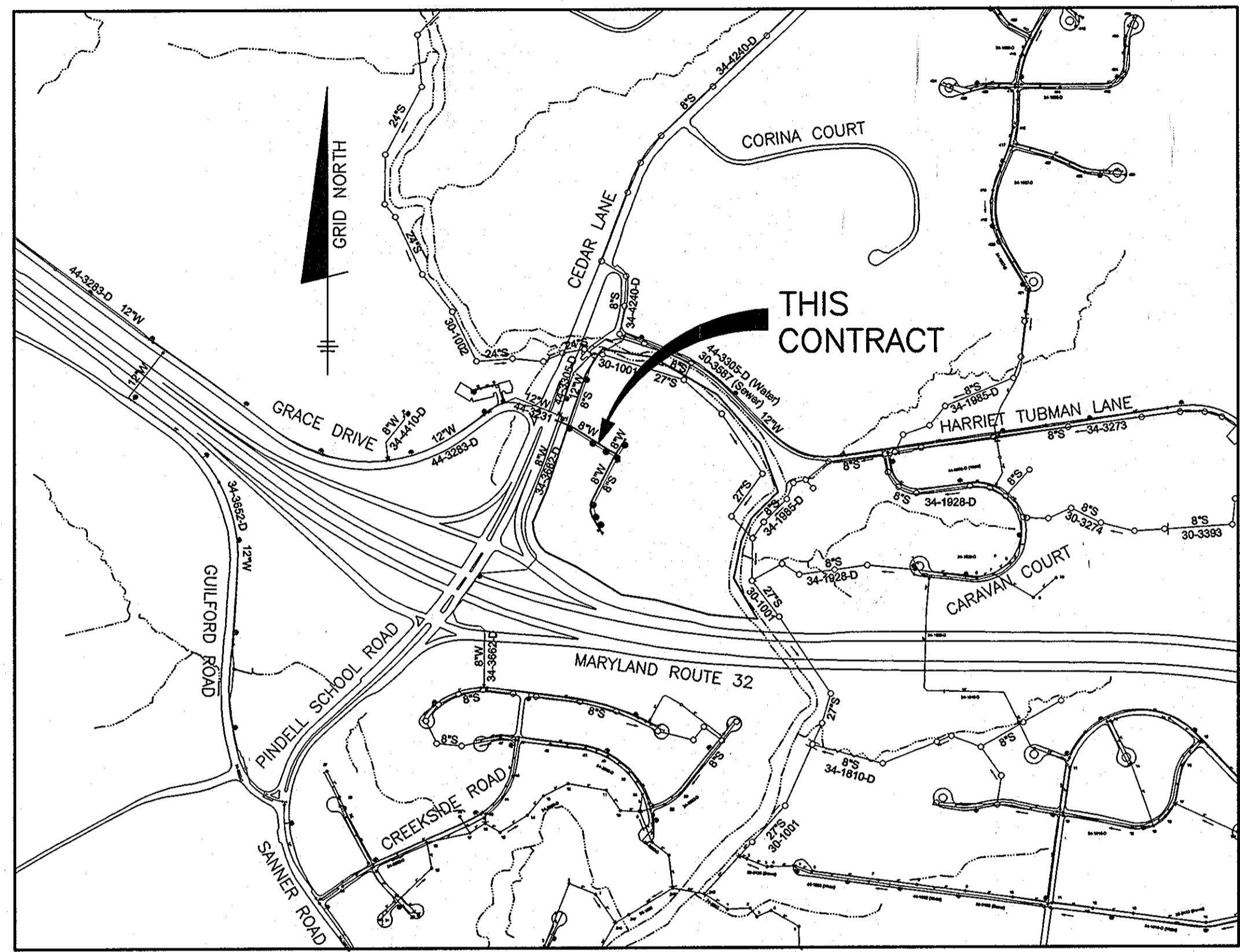


TYPICAL SINGLE WATER HOUSE CONNECTION NO SIDEWALK (OUTSIDE METER SETTING) NOT TO SCALE

TYPICAL TWIN WATER HOUSE CONNECTION NO SIDEWALK (OUTSIDE METER SETTING) NOT TO SCALE

**NOTE:**  
SEE HO. CO. STD. DETAIL W-3.28 FOR SINGLE OUTSIDE METER SETTING  
SEE DETAIL BELOW FOR TWIN OUTSIDE METER SETTINGS

**NOTE: HOUSE CONNECTIONS TO BE SIZED ACCORDINGLY:**  
SINGLE WHC = 1.5"  
TWIN WHC = 1.5"  
SINGLE SHC = 4"  
TWIN SHC = 6"x4"



VICINITY MAP  
SCALE: 1" = 600'

ITEMS	QUANTITIES ESTIMATED	AS-BUILT		
		QUANTITIES	TYPE	MANUF./SUPPLIER
8" PVC C900 WATER (DR18)	967 LF	967 LF	DR18000R	NORTH AMERICAN
FIRE HYDRANTS (INCL. 1"x6" TEE & VALVE)	2 EA	2 EA	B62B	AMERICAN DARLING
1.0" COPPER WHC	30 LF	30 LF	TYPEK	MUELLER
1.5" COPPER WHC	476 LF	476 LF	TYPEK	MUELLER
8"x8" TS&V	1 EA	1 EA	#66955	SMITH BLAIR
8" PVC SEWER (SDR 35)	1226 LF	1226 LF	PVC SDR 35	NORTH AMERICAN
MANHOLES	9 EA	9 EA	PRECAST	CONTRACTOR PRECAST CORP
TYPE 'B' DROP MH	3 EA	3 EA	PRECAST	CONTRACTOR PRECAST CORP
4" PVC SHC	434 LF	434 LF	PVC SDR 35	NORTH AMERICAN

WELL AND SEPTIC ABANDONMENT CHART		
ADDRESS	WELL/SEPTIC	ACTION
6701 CEDAR LANE	WELL	TO BE ABANDONED BY A LICENSED WELL DRILLER
	SEPTIC	1,000 Gd SEPTIC TANK PUMPED, CRUSHED & FILLED IN OCTOBER, 2011

SHEET INDEX	
NO.	DESCRIPTION
1	TITLE SHEET PUBLIC WATER & SEWER MAINS
2	PLAN VIEW PUBLIC WATER & SEWER MAINS
3	PROFILES PUBLIC WATER & SEWER MAINS

TYPE OF BUILDING:	SFA
NO. OF LOTS/PARCELS/UNITS:	30
NUMBER OF SHC'S:	30
NUMBER OF WHC'S:	31
DRAINAGE AREA:	MIDDLE PATUXENT
TREATMENT PLANT:	
WATER ZONE:	550
TEST GRADIENT:	700

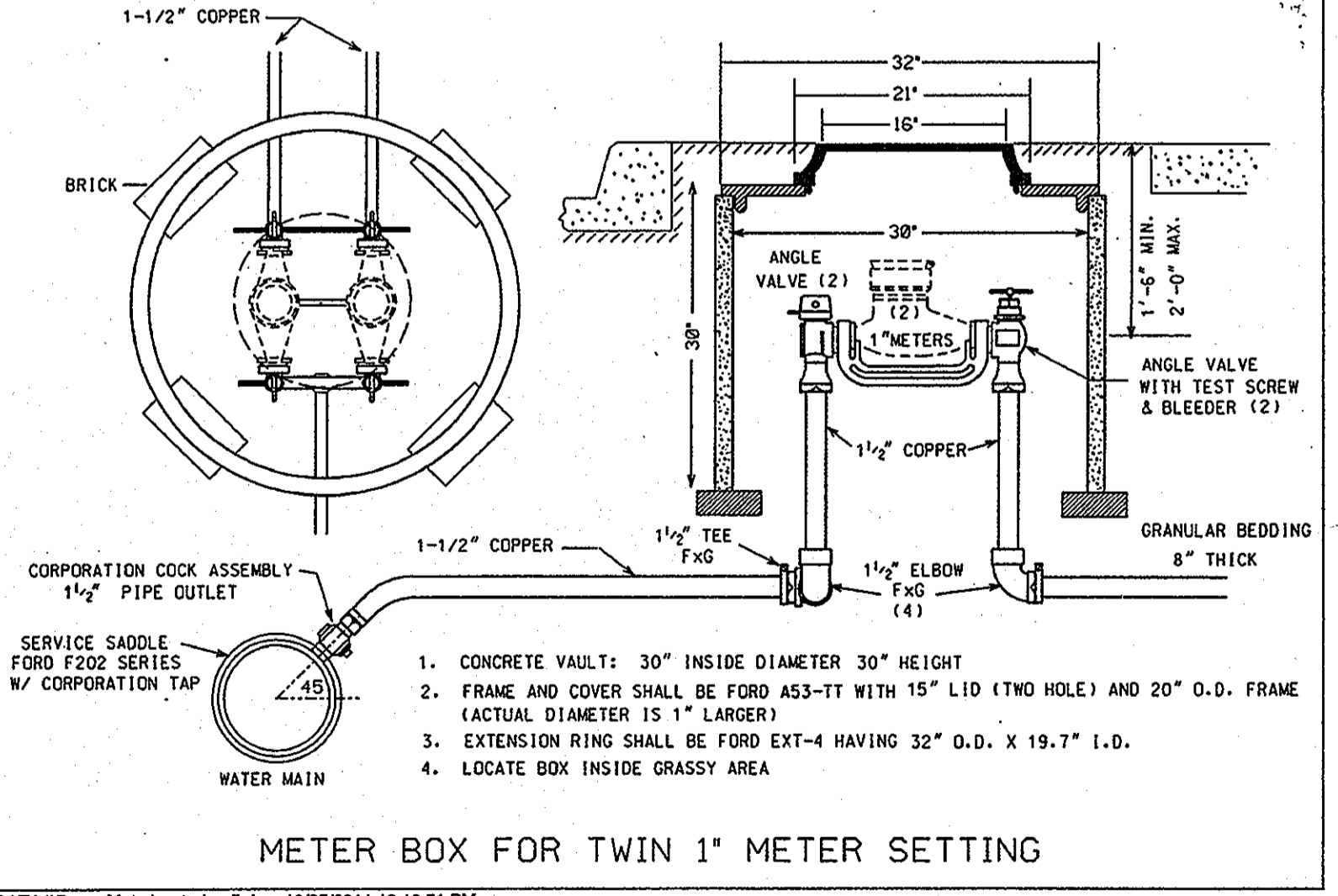
THIS PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

*John R. Roberts*  
HOWARD SOIL CONSERVATION DISTRICT

*Steve L. Lutz*  
DATE

OWNER/DEVELOPER:  
SIMPSON MILL, LLC  
P.O. BOX 417  
ELLCOTT CITY, MARYLAND 21041  
410-465-4244

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 28559, Expiration Date: 7-22-2013.



METER BOX FOR TWIN 1" METER SETTING

**NOTE: HO. CO. STD. DETAILS C-5.01 THRU C-5.03 ARE NOT APPLICABLE; THIS PROJECT IS NOT WITHIN AN AREA IDENTIFIED AS HAVING CORROSIVE SOILS**

#### 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.
  - TOPOGRAPHIC FIELD SURVEYS WERE PERFORMED IN MAY, 2007 BY SILL, ADCOCK & ASSOCIATES AND IN FEBRUARY, 2003 BY BENCHMARK ENGINEERING, INC.
  - HORIZONTAL AND VERTICAL SURVEY CONTROLS:  
THE COORDINATES SHOWN ON THE DRAWINGS ARE BASED ON MARYLAND STATE REFERENCE SYSTEM NAD 83/91 AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS NO. 3512 AND NO. 3511.
  - ALL VERTICAL CONTROLS ARE BASED ON NAVD '88. VERTICAL CONTROLS PROVIDED ON THE DRAWINGS ARE 3512 AND 3511.
  - 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, STANDARDS 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 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).....410-637-8713  
BGE (EMERGENCY).....410-681-1233  
BUREAU OF UTILITIES.....410-313-4900  
COLONIAL PIPELINE CO.....410-795-1390  
MESS UTILITY.....1-800-251-7777  
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 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(c) OF THE HOWARD COUNTY CODE.

#### PART II WATER

- ALL WATER MAINS TO BE D.I.P. CLASS 54 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 RESTRAINED AND BUTTRESSED WITH CONCRETE IN ACCORDANCE WITH THE STANDARD DETAILS. THE SOIL AROUND THE FIRE HYDRANT SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 1000 AND SECTION 1005 OF THE STANDARD SPECIFICATIONS TO ALLOW CROSS REFERENCING OF THE PIPE SUPPLIED TO THE TEST RECORDS RECEIVED.
- THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.
- TRACER WIRE AND CONTINUITY TEST STATIONS SHALL BE INSTALLED ON ALL DIP AND PVC WATER MAINS IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL.
- FOR PVC WATER MAINS, ALL RECORDS FOR THE QUALITY CONTROL AND QUALIFICATION TEST REQUIREMENTS NOTED IN SECTION 5.1 OF THE AWWA STANDARD C900 FOR PVC PRESSURE PIPE SHALL BE SUBMITTED WITH THE PIPE MATERIAL CERTIFICATIONS OR SHORT DRAWINGS PRIOR TO APPROVAL OF THE MATERIAL FOR USE. THE TEST RECORDS SHALL BE FOR THE PIPE TO BE INSTALLED UNDER THIS CONTRACT. ALL PVC PIPE SHALL CONTAIN MARKINGS TO ALLOW CROSS REFERENCING OF THE PIPE SUPPLIED TO THE TEST RECORDS RECEIVED.
- UNLESS OTHERWISE NOTED ON THE PLANS OR IN THE SPECIFICATIONS, SEVENTEEN (17) POUND SACRIFICIAL ANODES SHALL BE INSTALLED ON ALL VALVES AND METALLIC FITTINGS USED WITH PVC WATER MAINS IN ACCORDANCE WITH VOLUME IV, STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION. MAGNESIUM ANODES SHALL BE INSTALLED ON ALL VALVES AND DUCTILE IRON FITTINGS INCLUDING RESTRAINTS AND ANCHORS. ZINC ANODES SHALL BE INSTALLED ON ALL STAINLESS STEEL FITTINGS AND SADDLES USED WITH PVC MAINS. ALL "TEES" USED WITH PVC MAINS SHALL BE DUCTILE IRON.

#### PART III SEWER

- 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 WATER-TIGHT FRAME AND COVER STANDARD DETAIL C-5.02. WHERE WATER-TIGHT FRAME 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 CELLAR CANNOT BE SERVED.

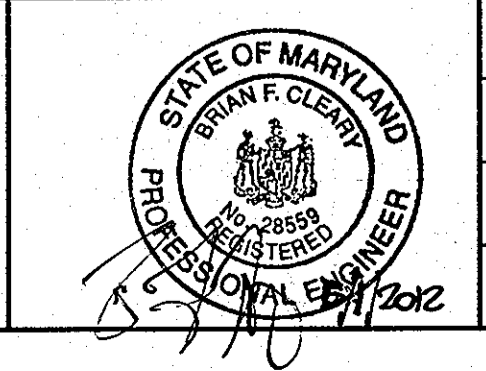
DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

*Steve L. Lutz*  
DATE 5/18/12

DEPARTMENT OF PLANNING AND ZONING  
HOWARD COUNTY, MARYLAND

*Steve L. Lutz*  
DATE 6/14/12

**BENCHMARK**  
ENGINEERING, INC.  
8480 BALTIMORE NATIONAL PIKE SUITE 418 ELLCOTT CITY, MARYLAND 21043  
(P) 410-465-6105 (F) 410-465-6644  
60 THOMAS JOHNSON DRIVE FREDERICK, MARYLAND 21702  
(P) 301-371-3555 (F) 301-371-3555  
WWW.BE-CVLENGINEERING.COM



DES: DBT/MCR			
DRAFT: DBT/MCR			
CHK: BFC	KCT	AS-BUILT	5-22-13
DATE: 5/2012	BE1	REVISE WATER AND SEWER MAIN QUANTITIES	8-8-12
BY NO.		REVISIONS	

**TITLE SHEET**  
**PUBLIC WATER & SEWER MAINS**

600 SCALE MAP NO: 35 BLOCK: 23 200 SCALE MAP NO: 136

**SIMPSON MILL - PHASE 1**  
**LOTS 1 thru 18 AND 139 thru 150**

TAX MAP: 35 - BLOCK: 23 - PARCEL: 116 - ZONED: R-SA-8 - ELECTION DISTRICT: 1  
TAX MAP: 35 - BLOCK: 23 - PARCEL: 258, 476 - ZONED: POR - ELECTION DISTRICT: 1

**CONTRACT NO. 34-4373-D**

SCALE:  
AS SHOWN

SHEET NO.  
1 OF 3

Lot	Dimension	Road
1	25.00	Green Mill Way
2	20.00	Green Mill Way
3	20.00	Green Mill Way
4	25.00	Green Mill Way
5	25.00	Green Mill Way
6	20.00	Green Mill Way
7	20.00	Green Mill Way
8	25.00	Green Mill Way
9	29.00	Green Mill Way
10	24.00	Green Mill Way
11	24.00	Green Mill Way
12	22.89	Green Mill Way
13	20.24	Green Mill Way
14	24.00	Green Mill Way
15	24.00	Green Mill Way
16	24.00	Green Mill Way
17	24.00	Green Mill Way
18	29.00	Green Mill Way
139	25.00	Green Mill Way
140	20.00	Green Mill Way
141	20.00	Green Mill Way
142	20.00	Green Mill Way
143	20.00	Green Mill Way
144	20.00	Green Mill Way
145	20.00	Green Mill Way
146	25.00	Green Mill Way
147	25.00	Green Mill Way
148	20.00	Green Mill Way
149	20.00	Green Mill Way
150	25.00	Green Mill Way

LOT	ADDRESS	LOCATION DIMENSION 1	LOCATION DIMENSION 2
1	8718 GREEN MILL WAY	MAIN TO SHC 30'	FHT TO CHC 50'
2	8720 GREEN MILL WAY	MAIN TO SHC 30'	FHT TO SHC 72'
3	8722 GREEN MILL WAY	MAIN TO SHC 32'	FHT TO SHC 34'
4	8724 GREEN MILL WAY	MAIN TO SHC 32'	FHT TO SHC 152'
5	8726 GREEN MILL WAY	MAIN TO SHC 32'	FHT TO SHC 152'
6	8732 GREEN MILL WAY	MAIN TO SHC 32'	SMH-7 TO SHC 106'
7	8734 GREEN MILL WAY	MAIN TO SHC 31'	SMH-7 TO SHC 81'
8	8736 GREEN MILL WAY	MAIN TO SHC 32'	SMH-7 TO SHC 76'
9	8738 GREEN MILL WAY	MAIN TO SHC 31'	SMH-7 TO SHC 45'
10	8740 GREEN MILL WAY	MAIN TO SHC 33'	SMH-7 TO SHC 44'
11	8742 GREEN MILL WAY	MAIN TO SHC 31'	SMH-7 TO SHC 40'
12	8744 GREEN MILL WAY	MAIN TO SHC 32'	SMH-7 TO SHC 52'
13	8746 GREEN MILL WAY	MAIN TO SHC 27'	SMH-7 TO SHC 52'
14	8750 GREEN MILL WAY	MAIN TO SHC 31'	SMH-7 TO SHC 51'
15	8752 GREEN MILL WAY	MAIN TO SHC 23'	SMH-7 TO SHC 57'
16	8754 GREEN MILL WAY	MAIN TO SHC 23'	SMH-7 TO SHC 50'
17	8756 GREEN MILL WAY	MAIN TO SHC 23'	SMH-7 TO SHC 65'
18	8758 GREEN MILL WAY	MAIN TO SHC 25'	SMH-7 TO SHC 62'
139	8729 GREEN MILL WAY	MAIN TO SHC 24'	SMH-7 TO SHC 132'
140	8727 GREEN MILL WAY	MAIN TO SHC 23'	SMH-7 TO SHC 144'
141	8725 GREEN MILL WAY	MAIN TO SHC 24'	FHT TO SHC 106'
142	8723 GREEN MILL WAY	MAIN TO SHC 22'	FHT TO SHC 91'
143	8721 GREEN MILL WAY	MAIN TO SHC 22'	FHT TO SHC 67'
144	8719 GREEN MILL WAY	MAIN TO SHC 22'	FHT TO SHC 67'
145	8717 GREEN MILL WAY	MAIN TO SHC 26'	SMH-5 TO SHC 45'
146	8715 GREEN MILL WAY	MAIN TO SHC 22'	SMH-5 TO SHC 34'
147	8711 GREEN MILL WAY	MAIN TO SHC 27'	SMH-5 TO SHC 48'
148	8709 GREEN MILL WAY	MAIN TO SHC 27'	SMH-5 TO SHC 121'
149	8707 GREEN MILL WAY	MAIN TO SHC 27'	SMH-5 TO SHC 91'
150	8705 GREEN MILL WAY	MAIN TO SHC 25'	SMH-5 TO SHC 91'

LOT	ADDRESS	LOCATION DIMENSION 1	LOCATION DIMENSION 2
1	8718 GREEN MILL WAY	MAIN TO WMC 13'	WMC TO FHT 62'
2	8720 GREEN MILL WAY	MAIN TO WMC 15'	WMC TO FHT 62'
3	8722 GREEN MILL WAY	MAIN TO WMC 13'	WMC TO FHT 47'
4	8724 GREEN MILL WAY	MAIN TO WMC 13'	WMC TO FHT 37'
5	8726 GREEN MILL WAY	MAIN TO WMC 14'	WMC TO FHT 136'
6	8732 GREEN MILL WAY	MAIN TO WMC 14'	WMC TO SHM-7 93'
7	8734 GREEN MILL WAY	MAIN TO WMC 14'	WMC TO SHM-7 83'
8	8736 GREEN MILL WAY	MAIN TO WMC 14'	WMC TO SHM-7 52'
9	8738 GREEN MILL WAY	MAIN TO WMC 14'	WMC TO SHM-7 52'
10	8740 GREEN MILL WAY	MAIN TO WMC 14'	WMC TO SHM-7 82'
11	8742 GREEN MILL WAY	MAIN TO WMC 14'	WMC TO SHM-7 27'
12	8744 GREEN MILL WAY	MAIN TO WMC 24'	WMC TO SHM-7 52'
13	8746 GREEN MILL WAY	MAIN TO WMC 24'	WMC TO SHM-7 45'
14	8750 GREEN MILL WAY	MAIN TO WMC 10'	WMC TO SHM-7 32'
15	8752 GREEN MILL WAY	MAIN TO WMC 10'	WMC TO SHM-7 32'
16	8754 GREEN MILL WAY	MAIN TO WMC 10'	WMC TO SHM-7 45'
17	8756 GREEN MILL WAY	MAIN TO WMC 5'	WMC TO SHM-7 24'
18	8758 GREEN MILL WAY	MAIN TO WMC 11'	WMC TO SHM-7 24'
139	8729 GREEN MILL WAY	MAIN TO WMC 37'	WMC TO SHM-7 121'
140	8727 GREEN MILL WAY	MAIN TO WMC 37'	WMC TO SHM-7 121'
141	8725 GREEN MILL WAY	MAIN TO WMC 34'	WMC TO FHT 121'
142	8723 GREEN MILL WAY	MAIN TO WMC 35'	WMC TO FHT 92'
143	8721 GREEN MILL WAY	MAIN TO WMC 35'	WMC TO FHT 62'
144	8719 GREEN MILL WAY	MAIN TO WMC 35'	WMC TO FHT 62'
145	8717 GREEN MILL WAY	MAIN TO WMC 35'	WMC TO FHT 43'
146	8715 GREEN MILL WAY	MAIN TO WMC 36'	WMC TO FHT 14'
147	8711 GREEN MILL WAY	MAIN TO WMC 35'	WMC TO SHM-7 93'
148	8709 GREEN MILL WAY	MAIN TO WMC 34'	WMC TO SHM-7 121'
149	8707 GREEN MILL WAY	MAIN TO WMC 34'	WMC TO SHM-7 91'
150	8705 GREEN MILL WAY	MAIN TO WMC 36'	WMC TO SHM-7 91'

OWNER/DEVELOPER:  
SIMPSON MILL, LLC  
P.O. BOX 417  
ELLCOTT CITY, MARYLAND 21041  
410-465-4244

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 28559, Expiration Date: 7-23-2013.

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND  
CHIEF, BUREAU OF UTILITIES  
DATE: 6/12/12

DEPARTMENT OF PLANNING AND ZONING  
HOWARD COUNTY, MARYLAND  
CHIEF, DEVELOPMENT ENGINEERING DIVISION  
DATE: 6/12/12

BENCHMARK  
ENGINEERS AND SURVEYORS PLANNERS  
2480 BALTIMORE NATIONAL PIKE SUITE 418 ELLCOTT CITY, MARYLAND 21043  
P: 410-465-8105 F: 410-465-8644  
60 THOMAS JOHNSON DRIVE FREDERICK, MARYLAND 21702  
P: 301-371-3505 F: 301-371-3506  
WWW.BEB-CMENGINEERING.COM

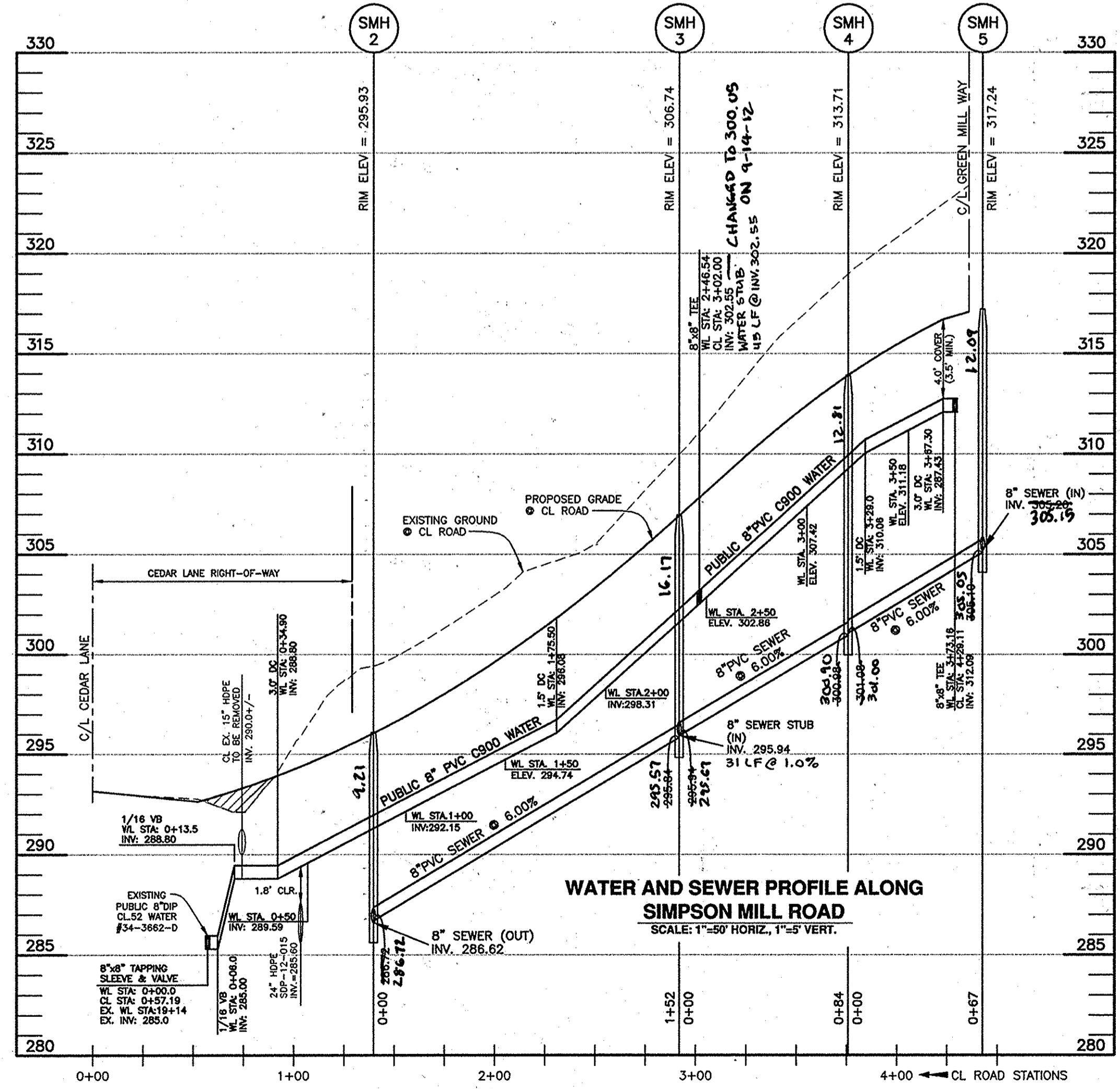
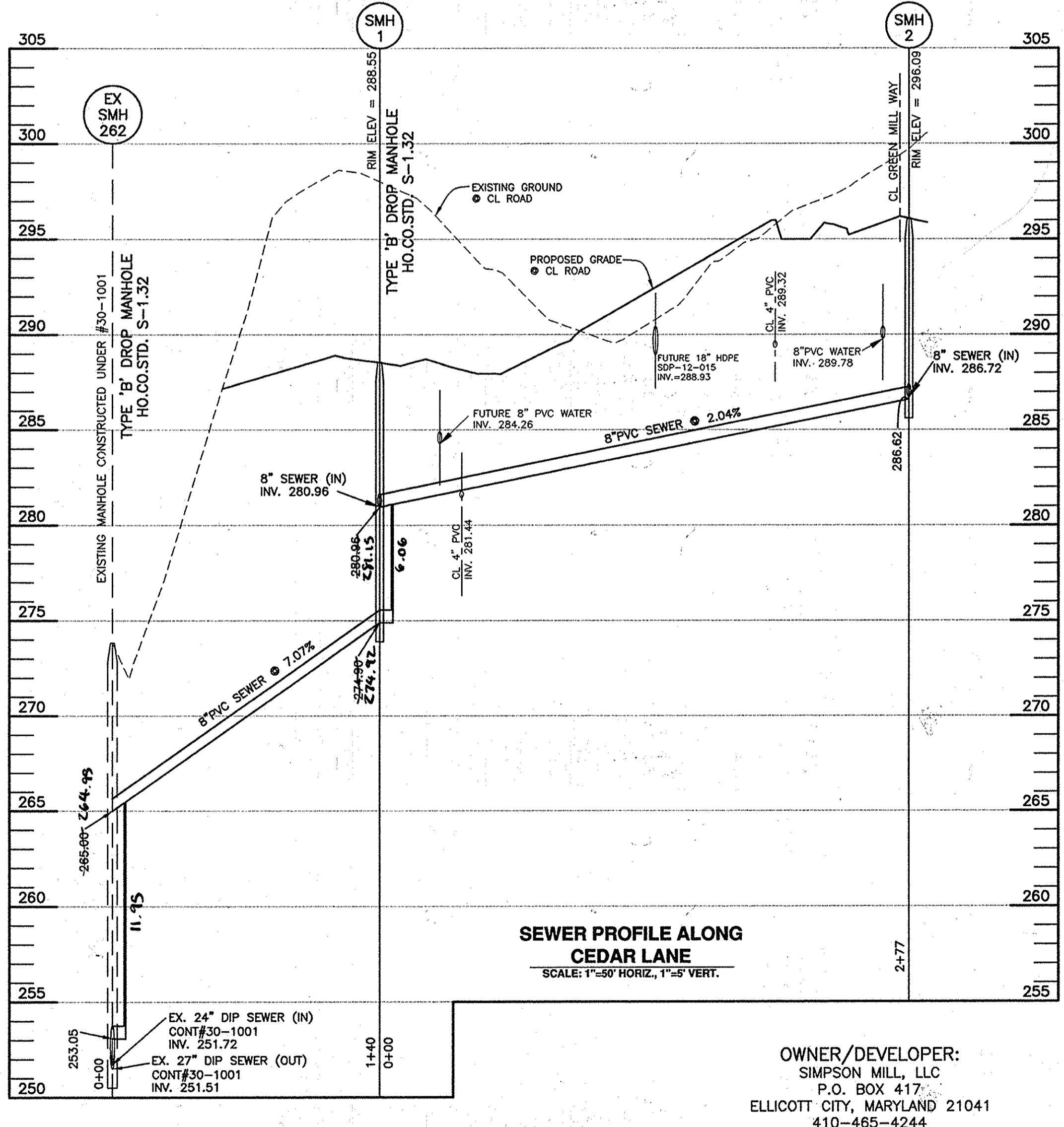
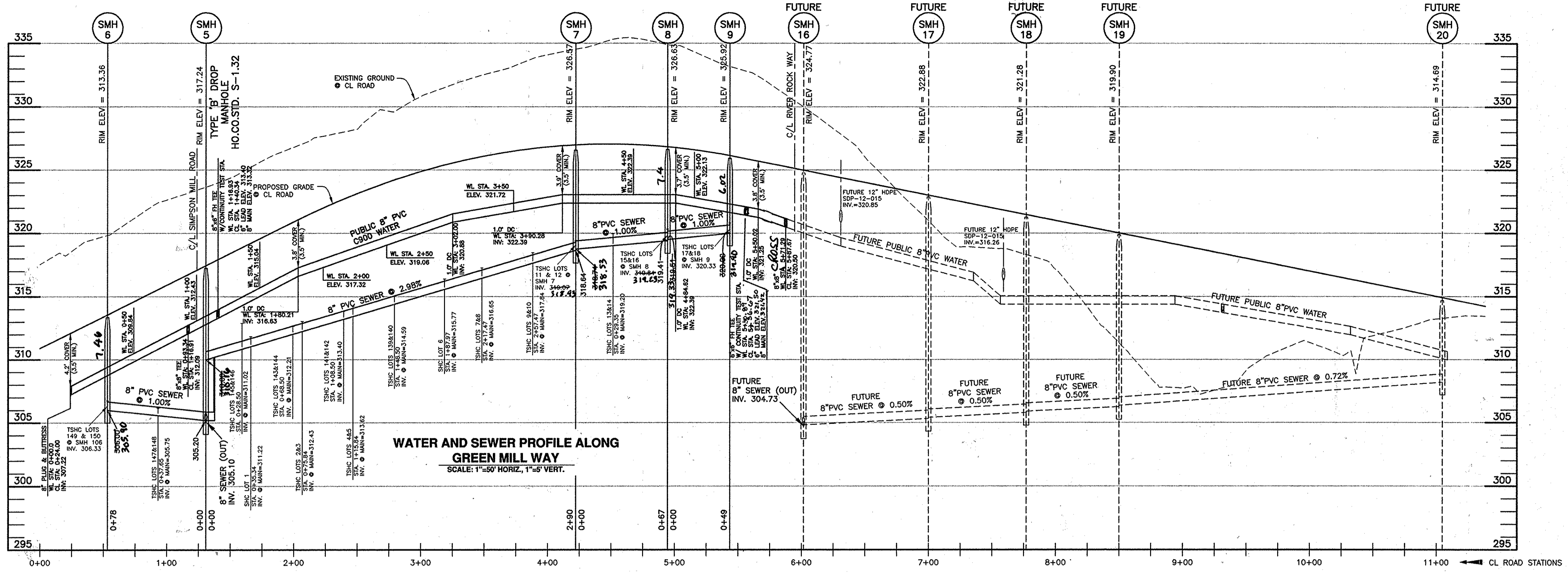


DES:	DBT/MCR		
DRAFT:	DBT/MCR	KCI 4	AS-BUILT REVISIONS 2-20-16
CHK:	BFC	KCI 3	AS-BUILT 12-14-15
DATE:	06/2012	BEI 1	AS-BUILT 8-22-10
BY:	NO.	BEI 1	REVISIONS 8-8-12

PLAN VIEW  
PUBLIC WATER & SEWER MAINS  
600 SCALE MAP NO: 36 BLOCK: 23 200 SCALE MAP NO: 136

SIMPSON MILL - PHASE 1  
LOTS 1 thru 18 AND 139 thru 150  
TAX MAP: 35 - BLOCK: 23 - PARCEL: 116 - ZONED: R-SA-8 - ELECTION DISTRICT: 1  
TAX MAP: 35 - BLOCK: 23 - PARCEL: 258, 476 - ZONED: POR - ELECTION DISTRICT: 1  
CONTRACT NO. 34-4373-D

SCALE:  
1" = 50'  
SHEET NO.  
2 OF 3



SHC CHART									
Lot Number	S/L Sta.	Invert @ main or manhole	Drop House	SHC Slope	Invert @ PUE	Minimum Cellar	Basement Elevation		
1	0+35.34	311.22	no	2.00%	311.84	315.94	321.17		
2	0+75.84	312.43	no	2.00%	313.05	317.15	321.84		
3	0+75.84	312.43	no	2.00%	313.05	317.15	322.51		
4	1+15.84	313.62	no	2.00%	314.24	318.34	323.85		
5	1+15.84	313.62	no	2.00%	314.24	318.34	325.19		
6	1+87.97	315.77	no	2.00%	316.39	320.49	326.81		
7	2+17.47	316.65	no	2.00%	317.27	321.37	327.48		
8	2+17.47	316.65	no	2.00%	317.27	321.37	327.48		
9	2+57.47	317.84	no	2.00%	318.46	322.56	328.15		
10	2+57.47	317.84	no	2.00%	318.46	322.56	328.15		
11	MH-7	319.07	no	2.00%	319.71	323.81	328.15		
12	MH-7	319.07	no	2.00%	319.71	323.81	328.15		
13	0+29.35	318.03	no	2.00%	318.79	323.05	328.21		
14	0+29.35	318.03	no	2.00%	318.79	323.05	328.21		
15	MH-8	319.84	no	2.00%	320.32	324.58	328.21		
16	MH-8	319.84	no	2.00%	320.32	324.58	327.54		
17	MH-9	320.33	no	2.00%	320.81	325.07	326.87		
18	MH-9	320.33	no	2.00%	320.81	325.07	326.87		
139	1+48.50	314.59	no	2.00%	315.03	319.07	325.73		
140	1+48.50	314.59	no	2.00%	315.03	319.07	325.06		
141	1+08.50	313.40	no	2.00%	313.84	317.88	324.39		
142	1+08.50	313.40	no	2.00%	313.84	317.88	323.72		
143	0+68.50	312.21	no	2.00%	312.65	316.69	322.38		
144	0+68.50	312.21	no	2.00%	312.65	316.69	321.71		
145	0+28.50	311.02	no	2.00%	311.46	315.50	321.04		
146	0+28.50	311.02	no	2.00%	311.46	315.50	319.70		
147	0+37.65	305.75	no	2.00%	306.19	310.23	317.46		
148	0+37.65	305.75	no	2.00%	306.19	310.23	316.12		
149	MH-6	306.33	no	2.00%	306.77	310.81	315.45		
150	MH-7	306.33	no	2.00%	306.77	310.81	314.11		

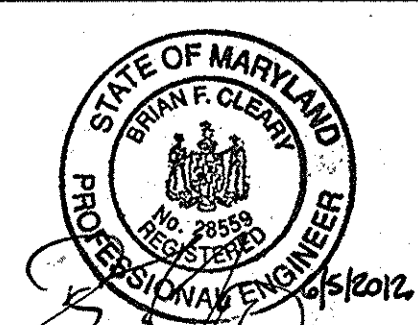
DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING AND ZONING  
HOWARD COUNTY, MARYLAND

CHIEF, DEVELOPMENT ENGINEERING DIVISION

**BENCHMARK**  
ENGINEERS & LAND SURVEYORS & PLANNERS  
**ENGINEERING, INC.**  
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60 THOMAS JOHNSON DRIVE & FREDERICK, MARYLAND 21702  
(P) 301-371-3505 (F) 301-371-3506  
WWW.BE-CWENGINEERING.COM



DES:DBT/MCR  
DRAFT:DBT/MCR  
CHK: BFC  
DATE: 06/2012

REVISIONS

BY NO. DATE

1 AS-BUILT 5-22-15  
REVISE FH LOCATION TO STA. 5+40.05, REVISE TEE AT END OF WATER TO A CROSS. SHOW W/S STRIPS NEAR SMH 2 5/18/12

**PROFILES OF PUBLIC WATER & SEWER MAINS**

600 SCALE MAP NO: 35 BLOCK: 23 200 SCALE MAP NO: 136

**SIMPSON MILL - PHASE 1**  
LOTS 1 thru 18 AND 139 thru 150

TAX MAP: 35 - BLOCK: 23 - PARCEL: 116 - ZONED: R-SA-8 - ELECTION DISTRICT: 1  
TAX MAP: 35 - BLOCK: 23 - PARCEL: 258, 476 - ZONED: POR - ELECTION DISTRICT: 1

**CONTRACT NO. 34-4373-D**

SCALE: AS SHOWN

SHEET NO. 3 OF 3