

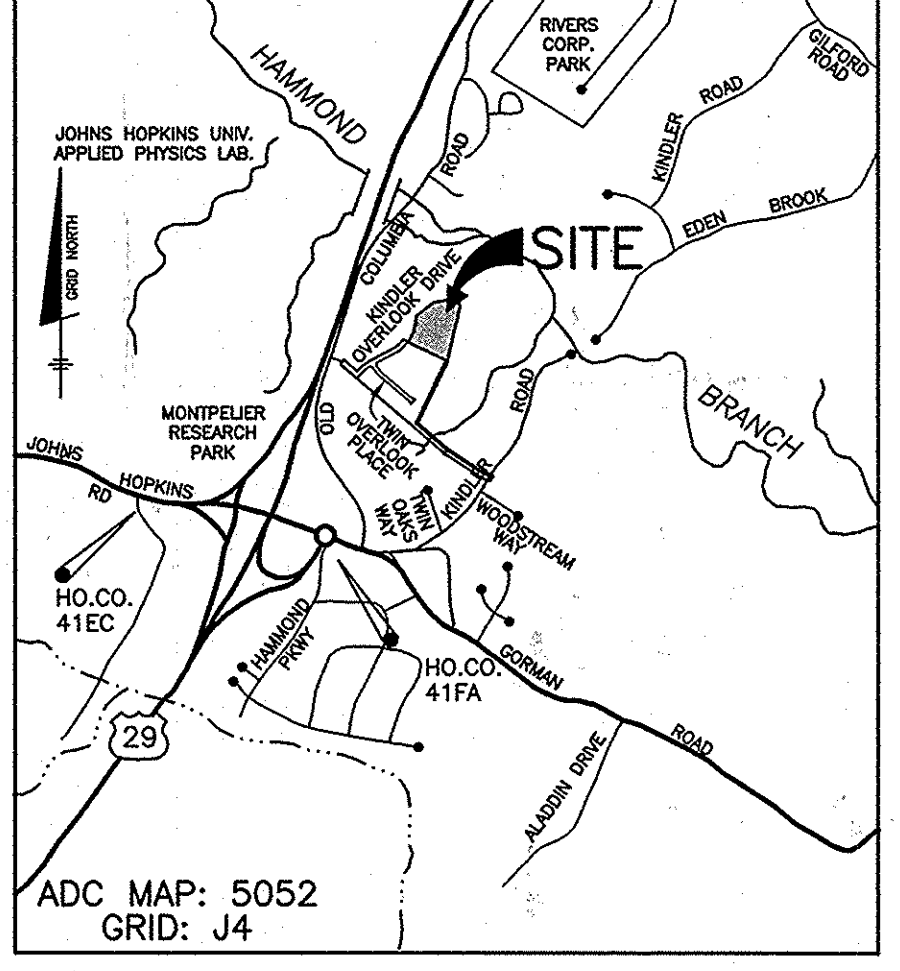
# KINDLER OVERLOOK II

## PUBLIC WATER AND PUBLIC SEWER CONSTRUCTION PLANS

### CONTRACT NO. 34-4613-D

**BENCH MARKS—(NAD'83)**

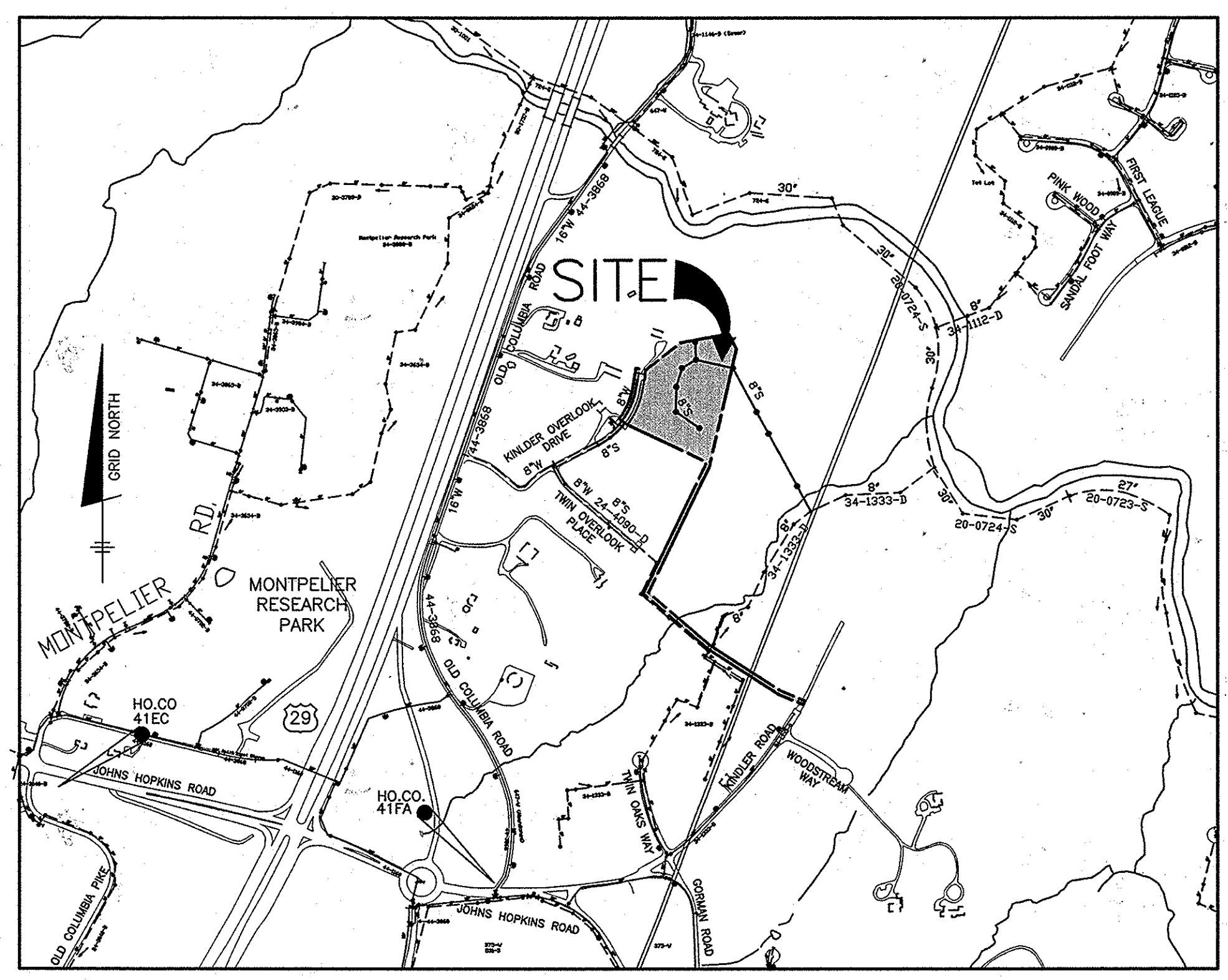
HO.CO. 41EC	ELEV. 430.34
STAMPED DISC SET ON TOP OF	
3" DEEP COLUMN OF CONCRETE	
N 543,588.8040	E 1,342,628.7800
HO.CO. 41FA	ELEV. 407.60
STAMPED DISC SET ON TOP OF	
3" DEEP COLUMN OF CONCRETE	
N 545210.7590	E 1344786.9530



**QUANTITIES**

ITEMS	QUANTITIES ESTIMATED	AS-BUILT		
		QUANTITIES	TYPE	MANUF./SUPPLIER
8" PVC WATER	264 l.f.	264 L.F.	C-900 DR18	J.M. EAGLE
1.5" WHC	224 l.f.	212 L.F.	K' COPPER	CAMBRIDGE LEE
8" PVC SEWER	260'	260'	C-900 DR18	J.M. EAGLE
8" DIP SEWER	1403 l.f.	1403'	SDR-35	J.M. EAGLE
8" DIP SEWER MANHOLES	10 each	10	PRECAST CONC.	CONCRETE PRECAST INC
V.F. OF MANHOLES (total)	120 v.f.	120 v.f.	PRECAST CONC.	CONCRETE PRECAST INC
4" SHC	70 l.f.	86 L.F.	SDR-35	J.M. EAGLE

NAME OF UTILITY CONTRACTOR: **UTILITIES UNLIMITED**  
 SURVEY AND DRAFTING DIVISION AS-BUILT DATE: **5-18-16**



EXISTING HOUSE	EXISTING WELL	TO BE ABANDONED?	EXISTING SEPTIC	TO BE ABANDONED?
7565 KINDLER OVERLOOK DR.	YES	YES	YES	YES

**SEWER HOUSE CONNECTION AS-BUILT LOCATION TABLE**

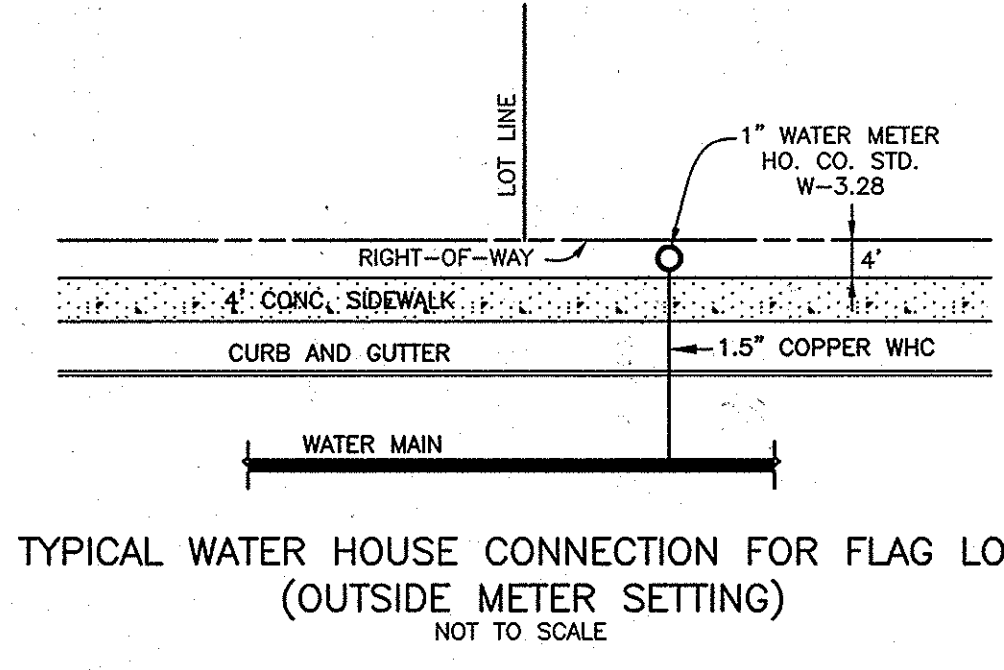
LOT	ADDRESS	LOCATION DIMENSION 1	LOCATION DIMENSION 2
1	KINDLER OVERLOOK DRIVE	SMH 21 12.6'	SHC LOT 2 108.6'
2	KINDLER OVERLOOK DRIVE	SMH 20 42.7'	
3	KINDLER OVERLOOK DRIVE	SMH 20 37.5'	SHC 4 80.0'
4	KINDLER OVERLOOK DRIVE	SMH 20 55.0'	SMH 19 69.7'
5	KINDLER OVERLOOK DRIVE	SMH 16 55.0'	
6	KINDLER OVERLOOK DRIVE	SMH 18 34.5'	SMH 16 51.2'
7	KINDLER OVERLOOK DRIVE	SMH 18 71.8'	SMH 19 34.0'

**WATER HOUSE CONNECTION AS-BUILT LOCATION TABLE**

LOT	ADDRESS	LOCATION DIMENSION 1	LOCATION DIMENSION 2
1	KINDLER OVERLOOK DRIVE	SMH 11 30.5'	WHC LOT 2 31.5'
2	KINDLER OVERLOOK DRIVE	SMH 11 42.5'	WHC LOT 3 65.4'
3	KINDLER OVERLOOK DRIVE	WHC LOT 2 65.4'	WHC LOT 4 67.8'
4	KINDLER OVERLOOK DRIVE	SD M-1 38.4'	WHC LOT 3 67.8'
5	KINDLER OVERLOOK DRIVE	SD M-1 19.0'	WHC LOT 6 13.1'
6	KINDLER OVERLOOK DRIVE	SD M-1 31.0'	WHC LOT 5 12.1'
7	KINDLER OVERLOOK DRIVE	SD M-1 47.3'	WHC LOT 6 10.7'

(FOR COUNTY USE ONLY)		TYPE OF BUILDING: _____ SFD	
WATER ZONE: 550	TEST GRADIENT: 700	NO. OF LOTS/PARCELS/UNITS: 7	NO. OF SHC'S: 7
		NUMBER OF WHC'S: 7	AREA OF COMMERCIAL LOT/PARCEL: N/A
		SEWER SHED: _____ PATUXENT	TREATMENT PLANT: _____ LITTLE PATUXENT WRP

**LOCATION MAP**  
SCALE: 1" = 600'



**TYPICAL WATER HOUSE CONNECTION FOR FLAG LOTS (OUTSIDE METER SETTING)**  
NOT TO SCALE

**SHEET INDEX**

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

### 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. 508A AND NO. 0015.
- ALL VERTICAL CONTROLS ARE BASED ON NAVD '88. VERTICAL CONTROLS PROVIDED ON THE DRAWINGS ARE 508A AND 0015.
- 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 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
  - BOE (CONTRACTOR SERVICES).....410-637-8713
  - BOE (EMERGENCY).....410-688-0123
  - 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 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(G) 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 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.
- 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 INSTRUCTIONS WITH THE 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 SHOP DRAWINGS PRIOR TO APPROVAL OF THE MATERIALS 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 HARNESSES. 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.
- PROPER ASSEMBLY OF GASKETED PVC PIPE JOINTS: THE MANUFACTURER'S INSERTION LINE OF GASKETED PVC PIPE JOINTS INDICATES THE MAXIMUM DEPTH OF INSERTION OF THE SPIGOT INTO THE BELL. AFTER ASSEMBLY OF THE JOINT, THE INSERTION LINE SHALL REMAIN VISIBLE. DUAL INSERTION LINES ON GASKETED PVC PIPE INDICATE THE MAXIMUM AND MINIMUM DEPTH OF INSERTION OF THE SPIGOT INTO THE BELL. THE CONTRACTOR SHALL NOT OVER INSERT OR OVER HOME THE SPIGOT INTO THE BELL OF PVC PIPE.
- ALL CHANGES IN HORIZONTAL OR VERTICAL DIRECTION OF PVC WATER PIPE SHALL BE MADE WITH STANDARD BENDS, 5-DEGREE SWEEPS OR HIGH DEFLECTION (HD) COUPLINGS. NO BENDING OF THE PIPE OR DEFLECTING OF PVC PIPE JOINTS IS PERMITTED. WHERE HIGH DEFLECTION COUPLINGS OR 5-DEGREE SWEEPS ARE PERMITTED, THE CONTRACTOR SHALL PROVIDE ONE FULL PIPE LENGTH (20-FOOT LONG) ON EITHER SIDE OF THE HIGH DEFLECTION COUPLING OR 5-DEGREE SWEEP. THE CONTRACTOR SHALL USE A VIBRATORY PLATE COMPACTOR OR OTHER APPROVED MEANS TO THOROUGHLY COMPACT THE #57 STONE ON BOTH SIDES OF THE HIGH DEFLECTION COUPLING OR 5-DEGREE SWEEP, TAKING CARE NOT TO USE COMPACTOR EQUIPMENT DIRECTLY OVER THE FITTING.
- PVC HIGH DEFLECTION COUPLINGS SHALL BE LIMITED TO A TOTAL DEFLECTION OF 3-DEGREES (15-DEGREE ON EITHER END OF THE COUPLING). SHALL BE RATED FOR A MINIMUM 200 PSI MEETING THE REQUIREMENTS OF AWWA C900. SHALL HAVE A MINIMUM LAY LENGTH OF 9-INCHES AND SHALL HAVE CENTER STOPS. PVC HIGH DEFLECTION COUPLINGS SHALL BE CERTAINTED PVC HIGH DEFLECTION (HD) STOP COUPLINGS OR EQUAL.
- FIVE DEGREE SWEEPS SHALL BE BELL BY SPIGOT, RATED FOR A MINIMUM 225 PSI, DR18 MEETING THE REQUIREMENTS OF AWWA C900 AND SHALL BE MULTI FITTINGS (PEX) BLUE BRUTE DR18 OR EQUAL.
- WHEN PVC HIGH DEFLECTION COUPLINGS OR PVC 5-DEGREE SWEEPS ARE USED TO FACILITATE CHANGES IN HORIZONTAL OR VERTICAL ALIGNMENTS OF AWWA C-900 PVC PIPELINES, THE CONTRACTOR SHALL INSTALL DEVICES FOR THE PREVENTION OF OVER-INSERTION OF THE PVC PIPE SPIGOTS OR FLAN ENDS INTO THE PUSH ON BELL JOINT ON BOTH SIDES OF THE HIGH DEFLECTION COUPLINGS AND 5 DEGREE SWEEPS. BELL STOPS SHALL BE PLACED AT THE PROPER INSERTION LINE FOR THE FITTING. THE BELL STOP SHALL BE MANUFACTURED OF DUCTILE IRON AND INCORPORATE AN EXPANSION RETENTION SPRING TO ALLOW FOR PIPE EXPANSION AND CONTRACTION. THE BELL STOPS SHALL BE SERIES 5000 MEGA-STOP, AS MANUFACTURED BY EBAA IRON, INC. OR APPROVED EQUAL.
- HOUSE(S) WITH THE SYMBOL "C.N.S." INDICATES THAT CELLAR CANNOT BE SERVED.

#### 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 WATERTIGHT FRAME AND COVER, STANDARD DETAIL 65.52. 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 CELLAR CANNOT BE SERVED.

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

*John V. Blanton* 7/8/14  
HOWARD SOIL CONSERVATION DISTRICT DATE

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE HOWARD COUNTY STANDARD SPECIFICATIONS AND AS PER F-10-051

OWNER/DEVELOPER:  
ROBERT MOWREY  
2331 YORK ROAD, SUITE 301  
TIMON, MARYLAND 21093  
410-404-0095

Professional Certifications. 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. 28376, Expiration Date: 1-1-2015.

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

*Steve C. Con* 7/22/14  
CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING AND ZONING  
HOWARD COUNTY, MARYLAND

*Chad Edelman* 7-31-14  
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

**BENCHMARK**  
ENGINEERING, INC.  
8480 BALTIMORE NATIONAL PIKE & SUITE 315 & ELLICOTT CITY, MARYLAND 21043  
(P) 410-465-6105 (F) 410-465-6644  
WWW.BEI-CVLENGINEERING.COM



DESIGN: DBT			
DRAFT: DBT			
CHK: BFC	AM 1	REVISED BY SHEET REPLACEMENT TO REFLECT CHANGES TO SWM.	7/2014
DATE: 4/2013	BY NO.	REVISIONS	DATE

**AS BUILTS**  
DATE: 5-18-16

**TITLE SHEET**  
PUBLIC WATER & SEWER MAINS

600 SCALE MAP NO. 41 BLOCK: 18 200 SCALE MAP NO. 134

**KINDLER OVERLOOK II**  
LOTS 1 thru 7  
OPEN SPACE LOTS 8 thru 10

TAX MAP: 41 - BLOCK: 18 - PARCEL: 386 - ZONED: R-20 - ELECTION DISTRICT: 6

**CONTRACT NO. 34-4613-D**

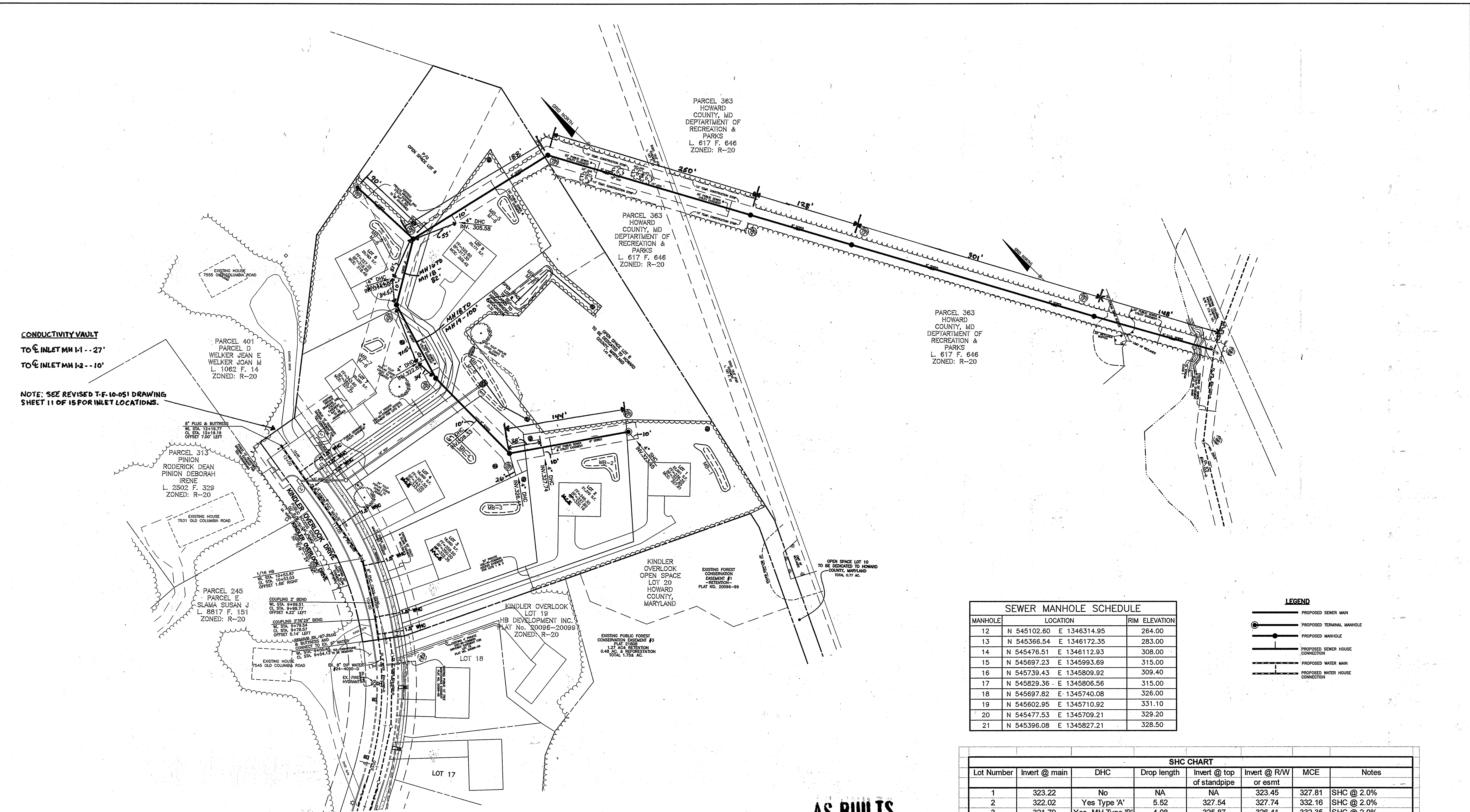
SCALE: AS SHOWN  
SHEET NO. 1 OF 3

**CONDUCTIVITY VAULT**

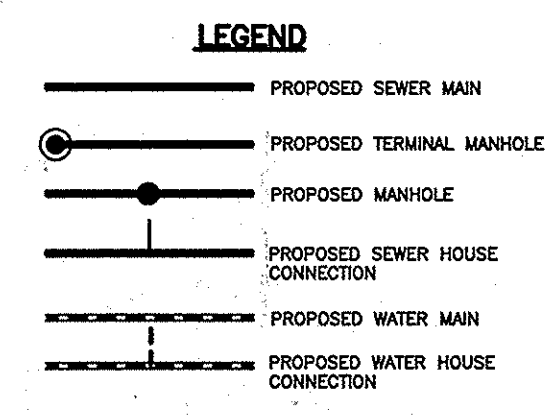
TO INLET MH 1-1 - 27'

TO INLET MH 1-2 - 10'

NOTE: SEE REVISED T-F-10-051 DRAWING SHEET 11 OF 15 FOR INLET LOCATIONS.



SEWER MANHOLE SCHEDULE			
MANHOLE	LOCATION	RIM ELEVATION	
12	N 545102.60 E 1346314.95	264.00	
13	N 545366.54 E 1346172.35	283.00	
14	N 545476.51 E 1346112.93	308.00	
15	N 545697.23 E 1345993.69	315.00	
16	N 545739.43 E 1345809.92	309.40	
17	N 545829.36 E 1345806.56	315.00	
18	N 545697.82 E 1345740.08	326.00	
19	N 545602.95 E 1345710.92	331.10	
20	N 545477.53 E 1345709.21	329.20	
21	N 545396.08 E 1345827.21	328.50	



SHC CHART							
Lot Number	Invert @ main	DHC	Drop length	Invert @ top of standpipe	Invert @ R/W or esmt	MCE	Notes
1	323.22	No	NA	NA	323.45	327.81	SHC @ 2.0%
2	322.02	Yes Type 'A'	5.52	327.54	327.74	332.16	SHC @ 2.0%
3	321.79	Yes, MH Type 'B'	4.08	325.87	326.41	332.35	SHC @ 2.0%
4	320.97	Yes Type 'A'	7.16	328.13	328.33	333.07	SHC @ 2.0%
5	298.90	Yes Type 'A'	6.48	305.38	305.58	309.42	SHC @ 2.0%
6	306.00	Yes Type 'A'	8.30	314.3	314.50	318.46	SHC @ 2.0%
7	317.50	Yes Type 'A'	5.15	322.65	322.85	327.37	SHC @ 2.0%

**PLAN VIEW**  
SCALE: 1" = 50'

**AS BUILT**  
BY: DBI DATE: 5-18-16

OWNER/DEVELOPER:  
ROBERT MOWREY  
2331 YORK ROAD, SUITE 301  
TIMONUM, MARYLAND 21093  
410-404-0095

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. 28376, Expiration Date: 1-1-2015.

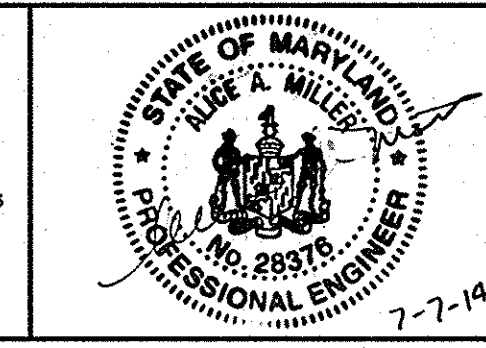
DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

*Steve C. Green* 7/23/14  
CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING AND ZONING  
HOWARD COUNTY, MARYLAND

*Chad Chisum* 7-31-14  
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

**BENCHMARK**  
ENGINEERS & LAND SURVEYORS & PLANNERS  
**ENGINEERING, INC.**  
8480 BALTIMORE NATIONAL PIKE & SUITE 315 & ELLICOTT CITY, MARYLAND 21043  
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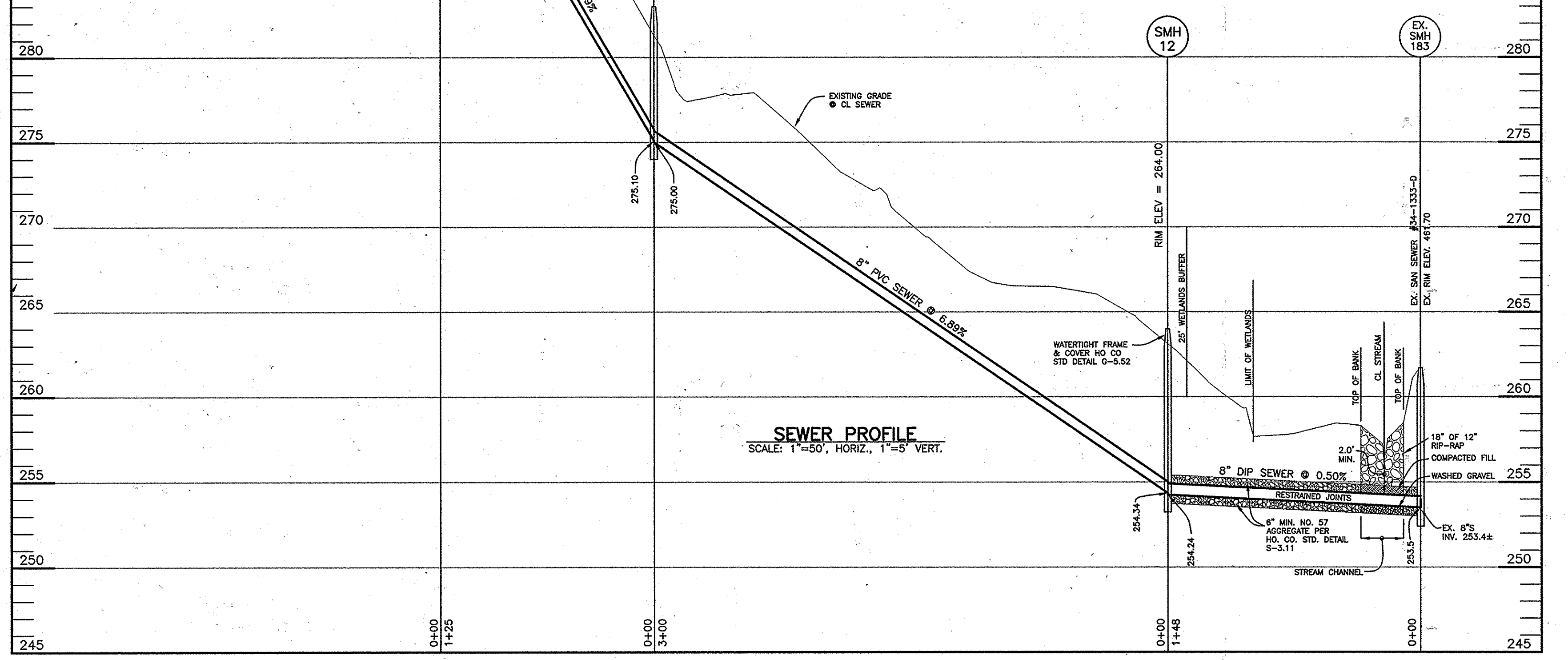
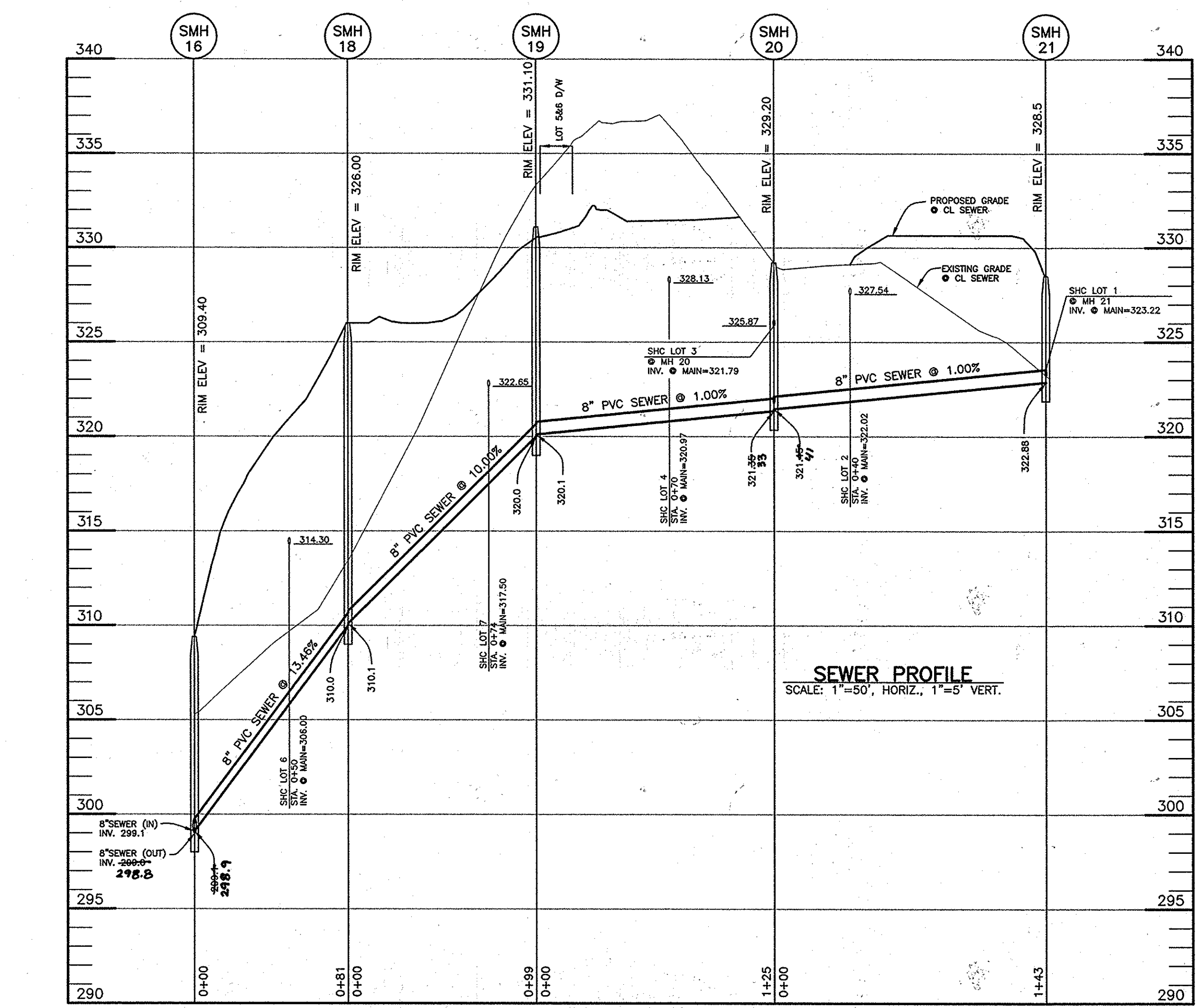
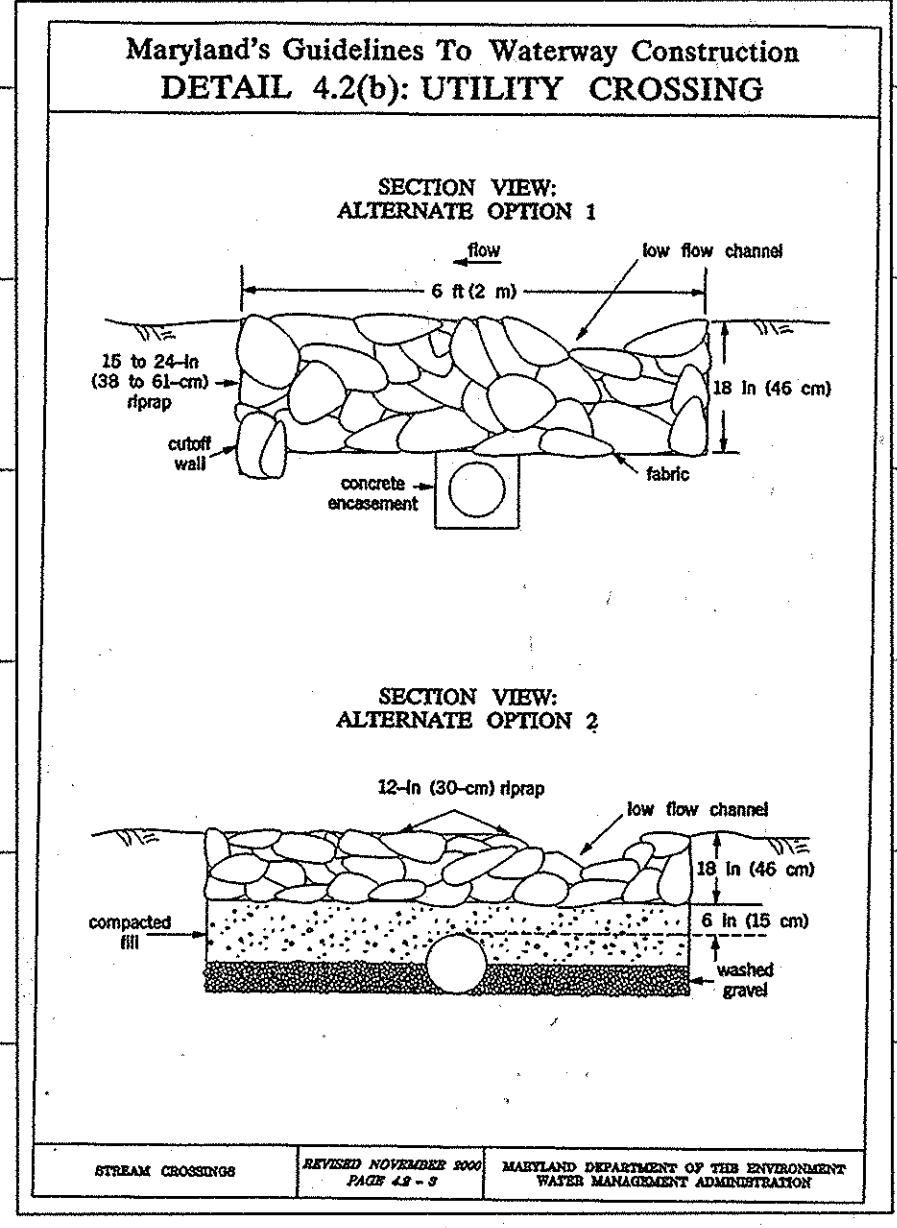
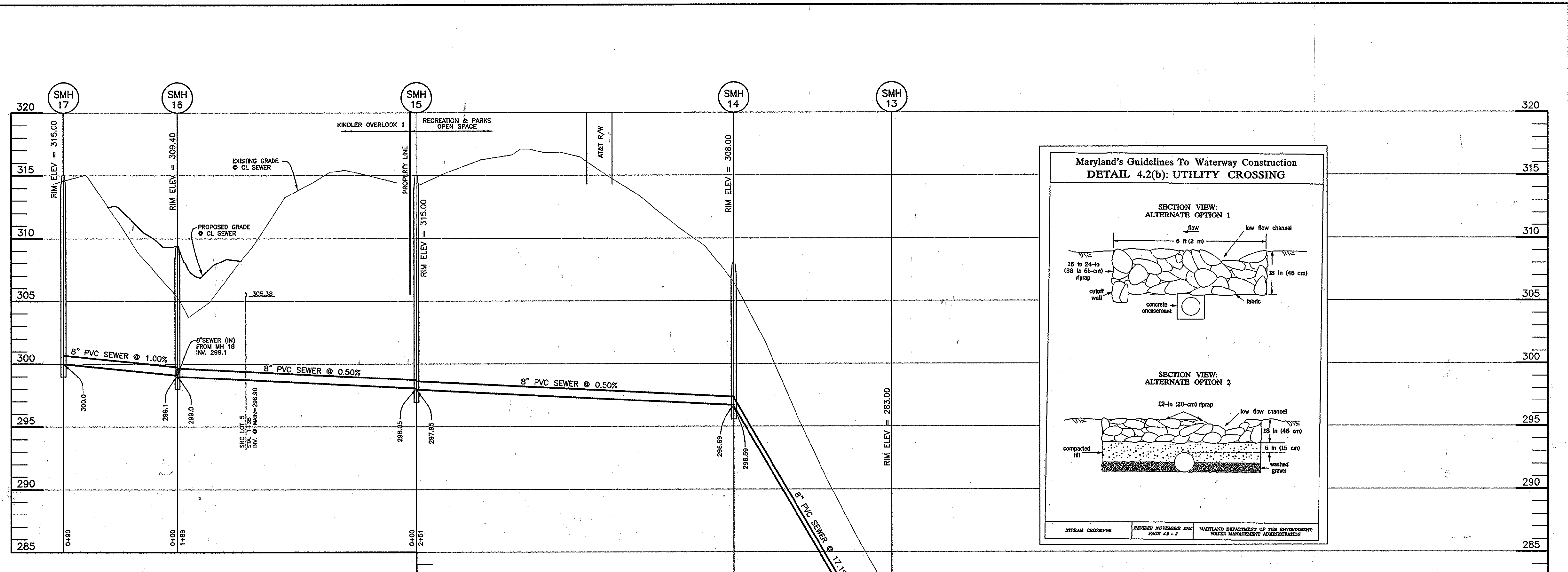
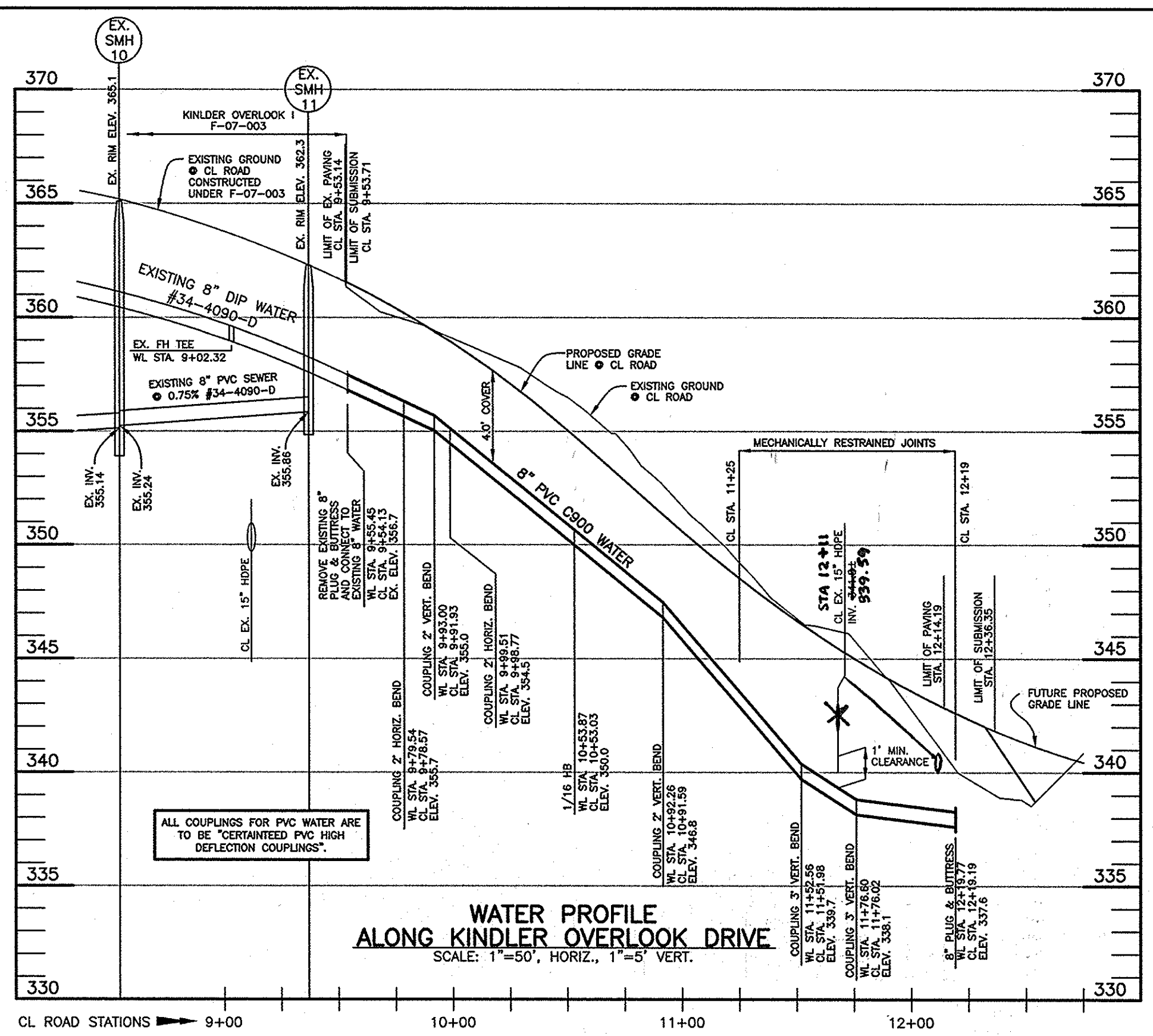
DESIGN: DBT					
DRAFT: DBT					
CHK: BFC	AM	1	REVISED BY SHEET REPLACEMENT TO REFLECT CHANGES TO SWM.	7/2014	
DATE: 3/2010	BY	NO.	REVISIONS	DATE	

**PLAN VIEW**  
**PUBLIC WATER & SEWER MAINS**

600 SCALE MAP NO. 41 BLOCK: 18 200 SCALE MAP NO. 134

**KINDLER OVERLOOK II**  
LOTS 1 thru 7  
OPEN SPACE LOTS 8 thru 10  
TAX MAP: 41 - BLOCK: 18 - PARCEL: 386 - ZONED: R-20 - ELECTION DISTRICT: 6  
**CONTRACT NO. 34-4613-D**

SCALE: AS SHOWN  
SHEET NO. 2 OF 3



SEE F-10-051 PLANS FOR SEDIMENT CONTROLS AT STREAM CROSSING

**AS BUILT**  
DATE: 5-18-16

OWNER/DEVELOPER:  
ROBERT MOWREY  
2331 YORK ROAD, SUITE 301  
TIMONIUM, MARYLAND 21093  
410-404-0095

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. 28376, Expiration Date: 1-1-2015.

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND	DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND	<b>BENCHMARK</b> ENGINEERS & LAND SURVEYORS & PLANNERS <b>ENGINEERING, INC.</b> 8480 BALTIMORE NATIONAL PIKE & SUITE 315 & ELLICOTT CITY, MARYLAND 21043 (P) 410-465-8105 (F) 410-465-6644 WWW.BM-ENR.COM		DESIGN: DBT DRAFT: DBT CHK: BFC DATE: 4/2013	AM 1 REVISOR: AM REVISION: REVISED BY SHEET REPLACEMENT TO REFLECT CHANGES TO SWM.	7/2014	600 SCALE MAP NO. 41 BLOCK: 18 200 SCALE MAP NO. 134	<b>KINDLER OVERLOOK II</b> LOTS 1 thru 7 OPEN SPACE LOTS 8 thru 10 TAX MAP: 41 - BLOCK: 18 - PARCEL: 386 - ZONED: R-20 - ELECTION DISTRICT: 6 <b>CONTRACT NO. 34-4613-D</b>	SCALE: AS SHOWN SHEET NO. 3 OF 3
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