

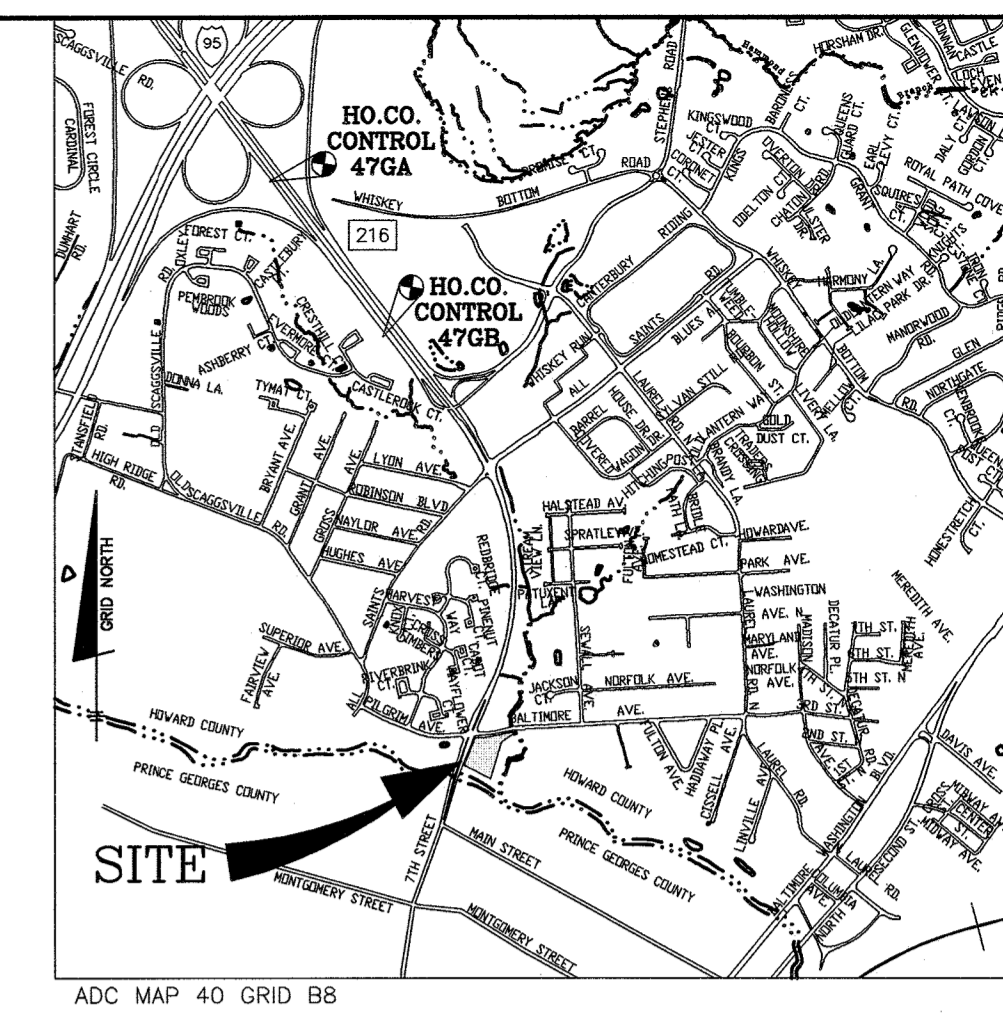
PUBLIC WATER AND SEWER MAIN EXTENSIONS

PATUXENT OVERLOOK

LOTS 1-9 AND OPEN SPACE LOTS 10 & 11

6th ELECTION DISTRICT

HOWARD COUNTY, MARYLAND



QUANTITIES				
ITEMS	ESTIMATED QUANTITIES	AS-BUILT		
		QUANTITIES	TYPE	MANUF./SUPPLIER
WATER				
8" WATER(PVC C900 DR18)	279 L.F.	279 L.F.	PVC-C900	NORTH AMERICAN
1.5" WHC	324 L.F.	300 L.F.	COPPER	MUELLER IND
WHC	9 EACH	9 EA.	COPPER	MUELLER IND
FIRE HYDRANT	1 EACH	1 EA.	SA-425	MUELLER COMP
8" TSV	1 EACH	1 EA.	MJ	SMITH B-HAIR
8" WATER VALVES	1 EACH	1 EA.	MJ	MUELLER COMP
1" OUTSIDE METER VAULT	9 EACH	9 EA.	CONCRETE	MORNE CONCRETE
8" CAP & BUTTRESS	1 EACH	1 EA.	MJ	TYLER/UNION FOUNDRY
SEWER				
8" SEWER (DIP CLASS 52)	84	84 L.F.	CL52 DIP	AMERICAN CAST IRON
8" SEWER(PVC C900 DR18)	297 L.F.	297 L.F.	PVC	NORTH AMERICAN PIPE
MH	4 EACH	4 EA.	PRECAST	CONTRACTORS PRECAST
4" SHC	187 L.F.	182.5 L.F.	DIP/PVC	ACIP/NAP
SHC	6 EACH	7 EA.	4" PVC	NAP
DHC	3 EACH	1 EA.	4" PVC/DIP	ACIP/NAP

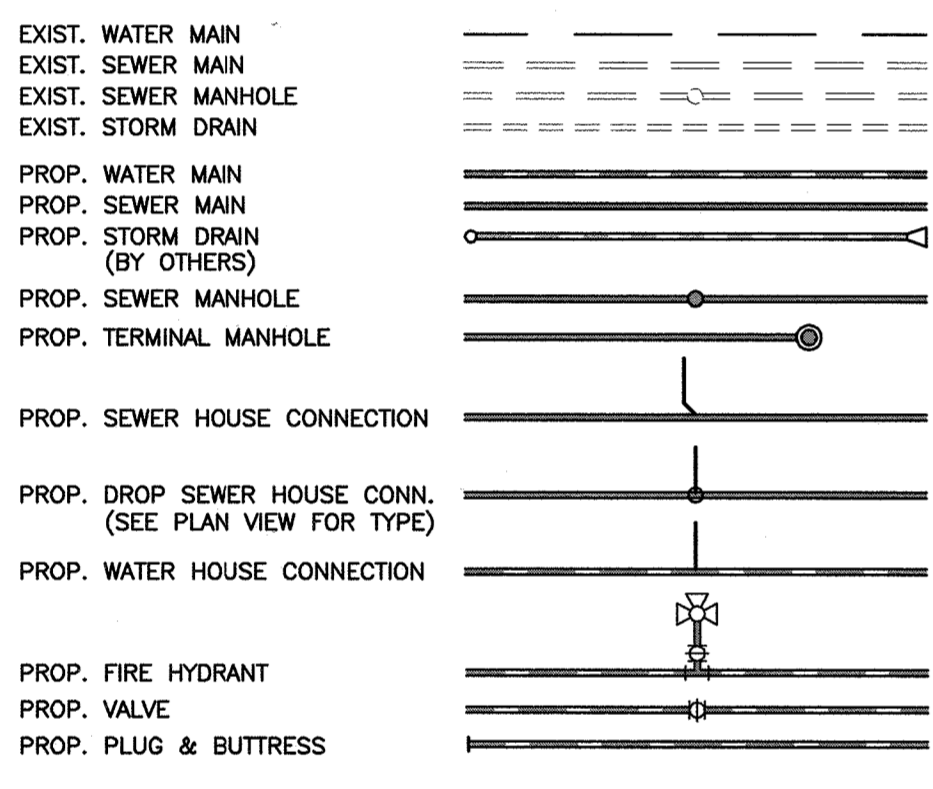
NAME OF UTILITY CONTRACTOR: UTILITIES UNLIMITED
 SURVEY AND DRAFTING DIVISION AS-BUILT DATE:

NOTE: THE EXISTING SEWER HOUSE CONNECTION AND WATER HOUSE CONNECTION FOR THE EXISTING BUILDING TO BE RAZED (8801 BALTIMORE AVENUE) IS TO BE ABANDONED AT THE MAIN LINE. THE EXISTING DUSTY WELL IS TO BE SEALED BY A LICENSED WELL DRILLER AND THE WELL ABANDONMENT REPORT RECEIVED BY THE HEALTH DEPARTMENT PRIOR TO BUILDING PERMIT. THE WELL ABANDONMENT IS TO BE DONE UNDER F-14-080.

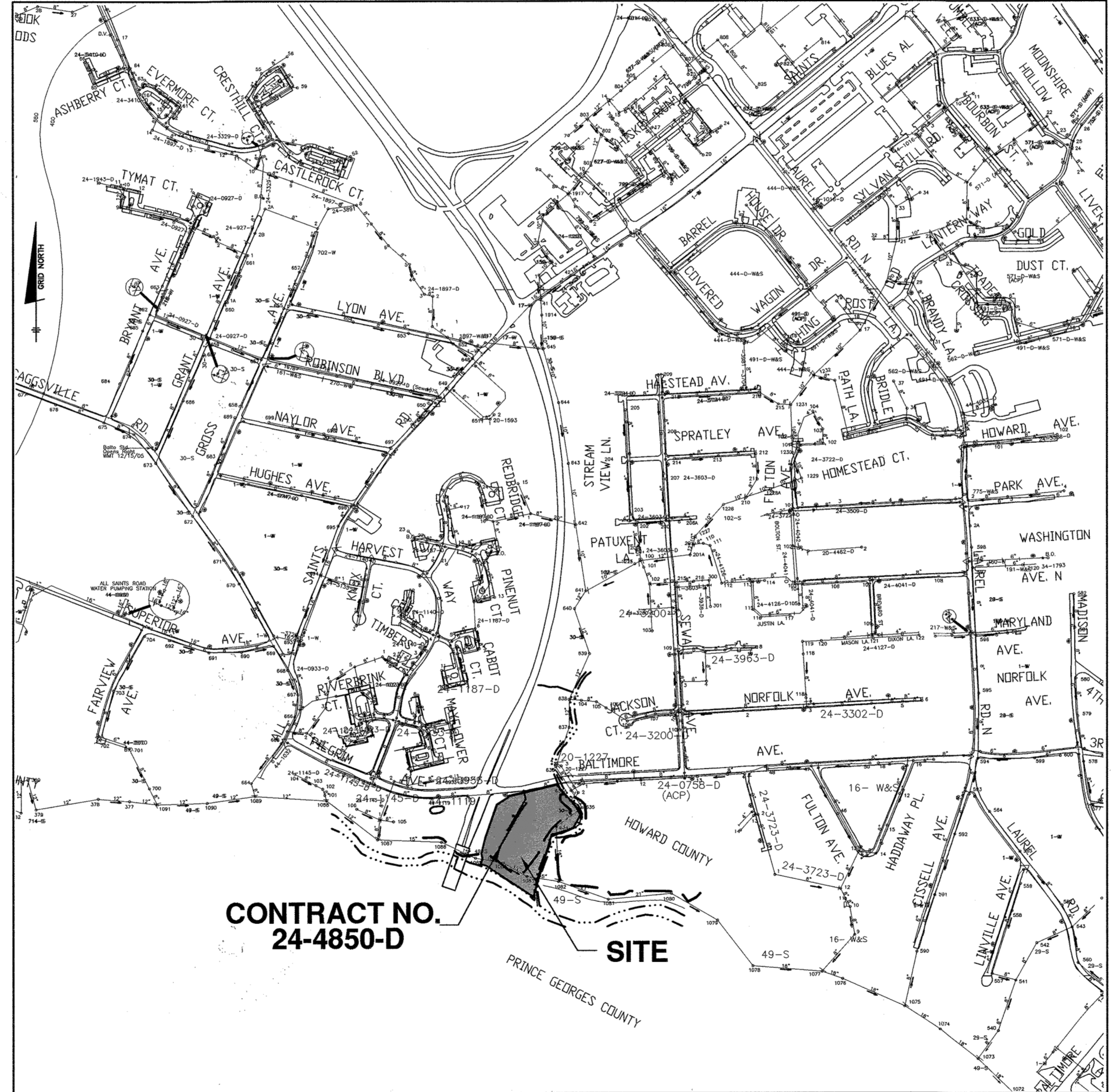
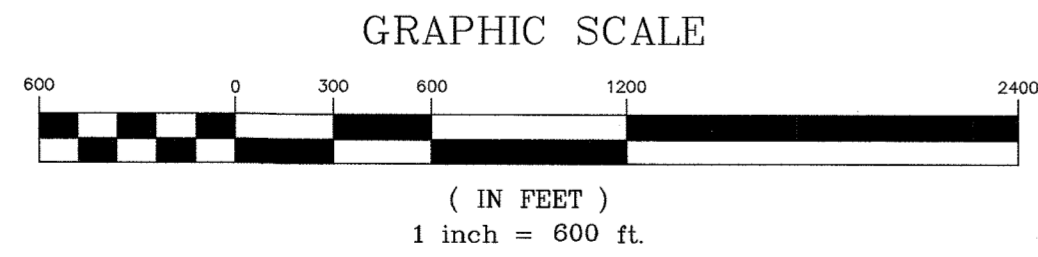
NOTE: USE HO. CO. STD. DETAILS W-3.32 FOR TWIN AND W-3.28 FOR SINGLE OUTSIDE METER SETTINGS

NOTE: ALL JOINTS AND CONNECTIONS LOCATED WITHIN STRUCTURAL FILL AREAS SHALL BE MECHANICALLY RESTRAINED IN ACCORDANCE WITH HOWARD COUNTY DESIGN MANUAL VOLUME IV, STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (LATEST EDITION)

LEGEND



NOTE: ALL WATER HOUSE CONNECTIONS ARE TO BE 1.5" WITH A 1" METER (OUTSIDE SETTING).



CONTRACT NO. 24-4850-D

NUMBER OF UNITS: 9	NUMBER OF SHC'S: 9
DRAINAGE AREA: PATUXENT	NUMBER OF WHC'S: 9
TREATMENT PLANT: LITTLE PATUXENT WWP	
WATER ZONE: 400W	
TEST GRADIENT: .550	

LOCATION MAP
SCALE: 1" = 600'

AS-BUILT

NOTE: CONTRACTORS TO EXERCISE EXTREME CAUTION WHEN WORKING IN AREA OF EXIST. OVERHEAD LINES ALONG BALTIMORE AVENUE.

NOTE: HOUSE CONNECTIONS TO BE SIZED ACCORDINGLY:
 SINGLE WHC = 1-1/2"
 TWIN WHC = 1-1/2"
 SINGLE SHC = 4"
 TWIN SHC = 6"x4"

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

NOTE: ALL JOINTS AND CONNECTIONS LOCATED WITHIN STRUCTURAL FILL AREAS SHALL BE MECHANICALLY RESTRAINED IN ACCORDANCE WITH HOWARD COUNTY DESIGN MANUAL, VOLUME IV, STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (LATEST EDITION)

- ### GENERAL NOTES
- PART 1 - GENERAL**
- 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.
 - EXISTING TOPOGRAPHY IS TAKEN FROM A FIELD RUN SURVEY BY BENCHMARK ENGINEERING, INC. ON OR ABOUT DECEMBER 2012.
 - THE COORDINATES SHOWN ON THE DRAWINGS ARE BASED ON MARYLAND STATE REFERENCE SYSTEM, NAD 83/91 AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS 476A AND 476B. ALL VERTICAL CONTROLS ARE BASED ON NAVD 88. VERTICAL CONTROLS PROVIDED ON THE DRAWINGS ARE HO. CO. GEODETIC CONTROL STA. 476A & 476B.
 - ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS UNLESS OTHERWISE NOTED ON PLANS.
 - CLEAR ALL UTILITIES BY A MINIMUM OF 12" CLEAR ALL POLES BY 3'-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 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 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 [X] 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.
 - CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:
 AT&T 1-800-282-1133
 BGE (CONSTRUCTION SERVICES) 410-837-8713
 BGE (EMERGENCY) 410-885-0123
 HO. CO. DEPT. - BUREAU OF UTILITIES 410-515-4800
 COLONIAL PIPELINE CO. 410-785-1390
 M&E UTILITY 1-800-257-7777
 STATE HIGHWAY ADMINISTRATION 410-531-5533
 VERIZON 1-800-743-0033
 - 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.
 - THE CONTRACTOR SHALL REMOVE TREES, STAMPS 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 DPM REQUIREMENTS PER SECTION 18.114(c) OF THE HOWARD COUNTY CODE.
- PART 2 - WATER**
- ALL WATER MAINS TO BE PVC C900 DR18 UNLESS OTHERWISE NOTED.
 - TOPS OF ALL WATER MAINS TO HAVE A MINIMUM OF 3'-6" 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.
 - TRACE WIRE AND CONTINUITY TEST STATIONS SHALL BE INSTALLED ON ALL D.I.P. AND P.V.C. WATER MAINS IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL.
 - FOR PVC WATER MAINS, ALL RECORDS FOR THE QUANTITY CONTROL AND QUALIFICATION TEST REQUIREMENTS NOTED IN SECTION 5.1 OF ANNA STANDARD C900 FOR PVC PRESSURE PIPE SHALL BE SUBMITTED WITH THE PIPE MATERIAL CERTIFICATIONS OR SHOP DRAWINGS PRIOR TO APPROVAL OF MATERIAL FOR USE. 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 RECORD RECEIVED.
 - UNLESS OTHERWISE NOTED ON THE PLANS OR IN THE SPECIFICATIONS, 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. SEVENTEEN (17) POUND MANGANESE ANODES SHALL BE INSTALLED ON ALL VALVES AND DUCTILE IRON FITTINGS INCLUDING RESTRAINTS AND HARNESSES. TWELVE (12) POUND 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 P.V.C. PIPE JOINTS: THE MANUFACTURER'S INSERTION LINE OF GASKETED PVC PIPE JOINTS INDICATES THE MAXIMUM DEPTH OF INSERTION OF THE SPOUT INTO THE BELL. AFTER ASSEMBLY OF THE JOINT, THE INSERTION LINE SHALL BE VISIBLE. DUAL INSERTION LINES ON GASKETED P.V.C. PIPE INDICATE THE MAXIMUM AND MINIMUM DEPTH OF INSERTION INTO THE SPOUT BELL. THE CONTRACTOR SHALL NOT OVER INSERT OR OVER HOME THE SPOUT INTO THE BELL. THE CONTRACTOR SHALL NOT OVER INSERT OR OVER HOME THE SPOUT INTO THE BELL OF THE P.V.C. PIPE.
 - ALL CHANGES IN HORIZONTAL AND VERTICAL DIRECTION OF P.V.C. WATER PIPE SHALL BE MADE WITH STANDARD BENDS, 5-DEGREE SWEEPS OR HIGH-DEFLECTION (HD) COUPLINGS. NO BENDING OF THE PIPE OR DEFLECTING OF P.V.C. PIPE JOINTS IS PERMITTED. WHERE HIGH-DEFLECTION (HD) 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 (HD) COUPLINGS 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 (HD) COUPLING OR 5-DEGREE SWEEP. TAKING CARE NOT TO USE COMPACTION EQUIPMENT DIRECTLY ON THE FITTING.
 - P.V.C. HIGH-DEFLECTION (HD) COUPLINGS SHALL BE LIMITED TO A TOTAL DEFLECTION OF 3-DEGREES (1-1/2 DEGREES ON EITHER END OF THE COUPLING). SHALL BE RATED FOR A MINIMUM OF 200-PSI MEETING THE REQUIREMENTS OF ANNA-C900. SHALL HAVE A MINIMUM LAY LENGTH AND SHALL HAVE CENTER STOPS. P.V.C. HIGH-DEFLECTION (HD) COUPLINGS SHALL BE CERTAIN-TEED P.V.C. HIGH-DEFLECTION (HD) COUPLINGS OR EQUAL.
 - 5-DEGREE SWEEPS SHALL BE BELL BY SPOUT, RATED FOR A MINIMUM 225-PSI, DR-18 MEETING THE REQUIREMENTS OF ANNA-C900, AND SHALL BE MULTI-FITTING (PFS) BLUE BRUTE DR-18 OR EQUAL.
 - WHEN P.V.C. HIGH-DEFLECTION (HD) COUPLINGS OR P.V.C. 5-DEGREE SWEEPS ARE USED TO FACILITATE CHANGES IN HORIZONTAL OR VERTICAL ALIGNMENTS OF ANNA-C900 P.V.C. PIPELINES, THE CONTRACTOR SHALL INSTALL DEVICES FOR THE PREVENTION OF OVER-INSERTION OF THE P.V.C. SPOUTS OR PLAIN ENDS INTO THE PUSH ON BELL JOINT ON BOTH SIDES OF THE HIGH DEFLECTION (HD) 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 HIGH-STOP, AS MANUFACTURED BY EBAA IRON, INC. OR EQUAL.
 - FIRE SPRINKLER SYSTEMS FOR ALL SINGLE FAMILY DWELLINGS SHALL HAVE A MINIMUM OF A 1-1/2" CONNECTION WITH A 1" OUTSIDE METER SETTING.
- PART 3 - 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 WATERIGHT FRAME AND COVER, STANDARD DETAIL C-5.52. WHERE WATERIGHT MANHOLE FRAMES AND COVERS ARE USED, SET TOP OF FRAME 1'-8" ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
 - HOUSE(S) WITH THE SYMBOL "C.N.S." INDICATES THAT CELLAR CANNOT BE SERVED.

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

John R. Roberts 9/18/14
 HOWARD SOIL CONSERVATION DISTRICT DATE

SEEDMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 308 OF THE HOWARD COUNTY STANDARD SPECIFICATIONS AND AS PER APPROVED DEVELOPMENT PLANS F-14-080.

SHEET INDEX	
NO.	DESCRIPTION
1	TITLE SHEET PUBLIC WATER & SEWER MAINS
2	WATER & SEWER PLAN AND PROFILE

OWNER/DEVELOPER
 DEVELOPMENT PARTNERS, LLC
 11807 WOLLINGFORD COURT
 CLARKSVILLE, MD 21029
 301-490-0388

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. 22390, Expiration Date: 6/30/2015

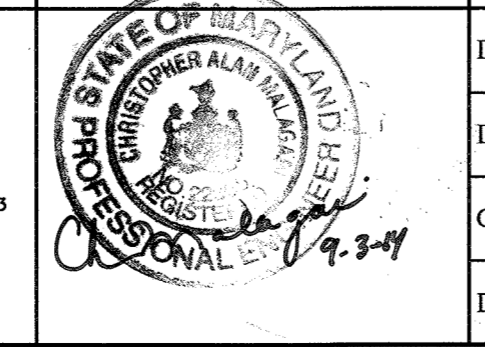
DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

Steve C. Cam 9/24/14
 CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING AND ZONING
 HOWARD COUNTY, MARYLAND

Ed. Anderson 9.24.14
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

BENCHMARK
 ENGINEERS & LAND SURVEYORS & PLANNERS
ENGINEERING, INC.
 8480 BALTIMORE NATIONAL PIKE & SUITE 315 & ELLICOTT CITY, MARYLAND 21043
 (P) 410-485-8105 (F) 410-485-8844
 WWW.BE-ONLINEENGINEERING.COM



DES:	JCO	BY:	NO.	REVISIONS:	DATE:
DRN:	JCO	BY:	NO.	REVISIONS:	DATE:
CHK:	CAM	BY:	NO.	REVISIONS:	DATE:
DATE:	SEPT. 2014	BY:	NO.	REVISIONS:	DATE:

PUBLIC WATER AND SEWER
 TITLE SHEET

600 SCALE MAP: 27 BLOCK: 1

8801 BALTIMORE AVENUE
PATUXENT OVERLOOK
 LOTS 1-9 AND OPEN SPACE LOTS 10 & 11
 TAX MAP 50, GRID 02, PARCELS 257
 6TH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

SCALE: AS SHOWN
 SHEET NO. 1 OF 2

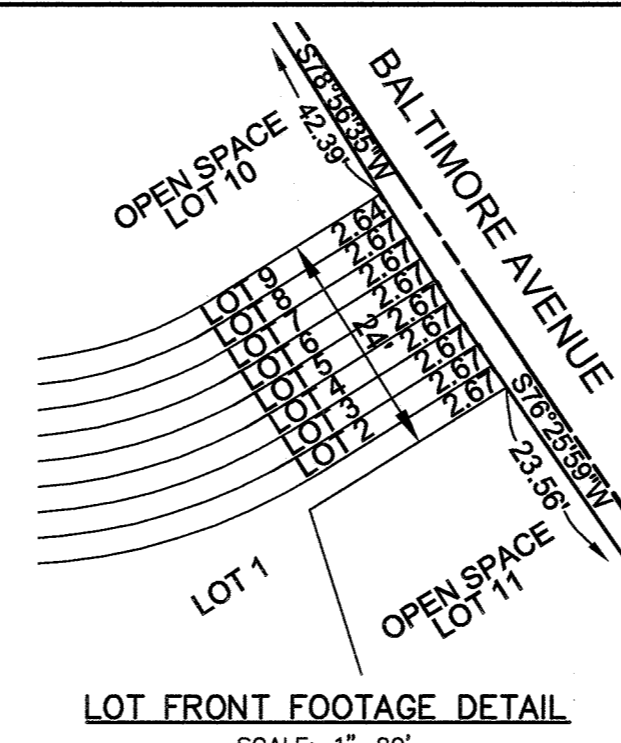
CONTRACT No. 24-4850-D

SEWER SERVICE AS-BUILT LOCATION TABLE			
LOT	ADDRESS	LOCATION DIMENSION #1	LOCATION DIMENSION #2
1	9603 PATUXENT OVERLOOK DRIVE	98' TO LOT 1 WHC	14' TO SMH-10B
2	9607 PATUXENT OVERLOOK DRIVE	0' TO LOT 9 WHC	19' TO LOT 9 WHC
3	9611 PATUXENT OVERLOOK DRIVE	19' S' TO LOT 4 WHC	50' TO F14 STA. 2+34.80
4	9615 PATUXENT OVERLOOK DRIVE	32' TO SMH-10A	31' TO LOT 4 WHC
5	9619 PATUXENT OVERLOOK DRIVE	98' TO LOT 6 WHC	90' TO SMH-10C
6	9623 PATUXENT OVERLOOK DRIVE	98' TO LOT 6 WHC	44' TO SMH-10D
7	9618 PATUXENT OVERLOOK DRIVE	19' TO WATER LINE BLOWOFF	34' TO SMH-10E
8	9614 PATUXENT OVERLOOK DRIVE	0' TO CT3	14.8' TO 6" FH VALVE
9	9610 PATUXENT OVERLOOK DRIVE	12' TO LOT 8 WHC	38' TO LOT 9 WHC

SEWER HOUSE CONNECTION CHART							
LOT	CONNECTION STA.	INV. AT MAIN	SLOPE	TYPE	INVERT AT EASEMENT	MCE	BASEMENT ELEVATION
1	SMH 103	177.23	1%	SHC	177.3	180.4	180.5
2	1+28.2	178.6	2%	SHC	178.8	182.5	182.5
3	0+49.2	178.0	2%	SHC	178.2	181.9	184.5
4	0+19.2	178.1	2%	DHC	178.3	181.9	182.0
5	0+40.6	167.7	2%	DHC	169.4	173.2	173.2
6	0+41.0	173.5	2%	SHC	173.7	177.1	177.7
7	0+78.2	176.6	2%	SHC	176.8	180.1	180.4
8	0+37.8	179.2	2%	DHC	179.5	182.9	183.1
9	0+85.0	177.1	2%	SHC	177.5	181.0	185.5

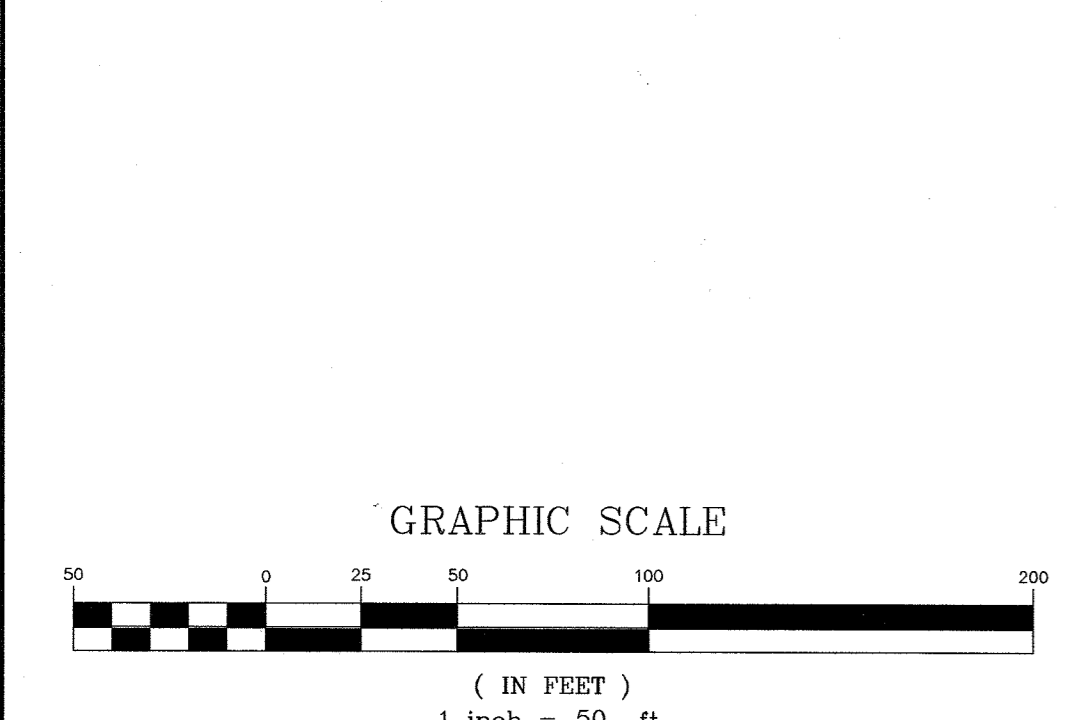
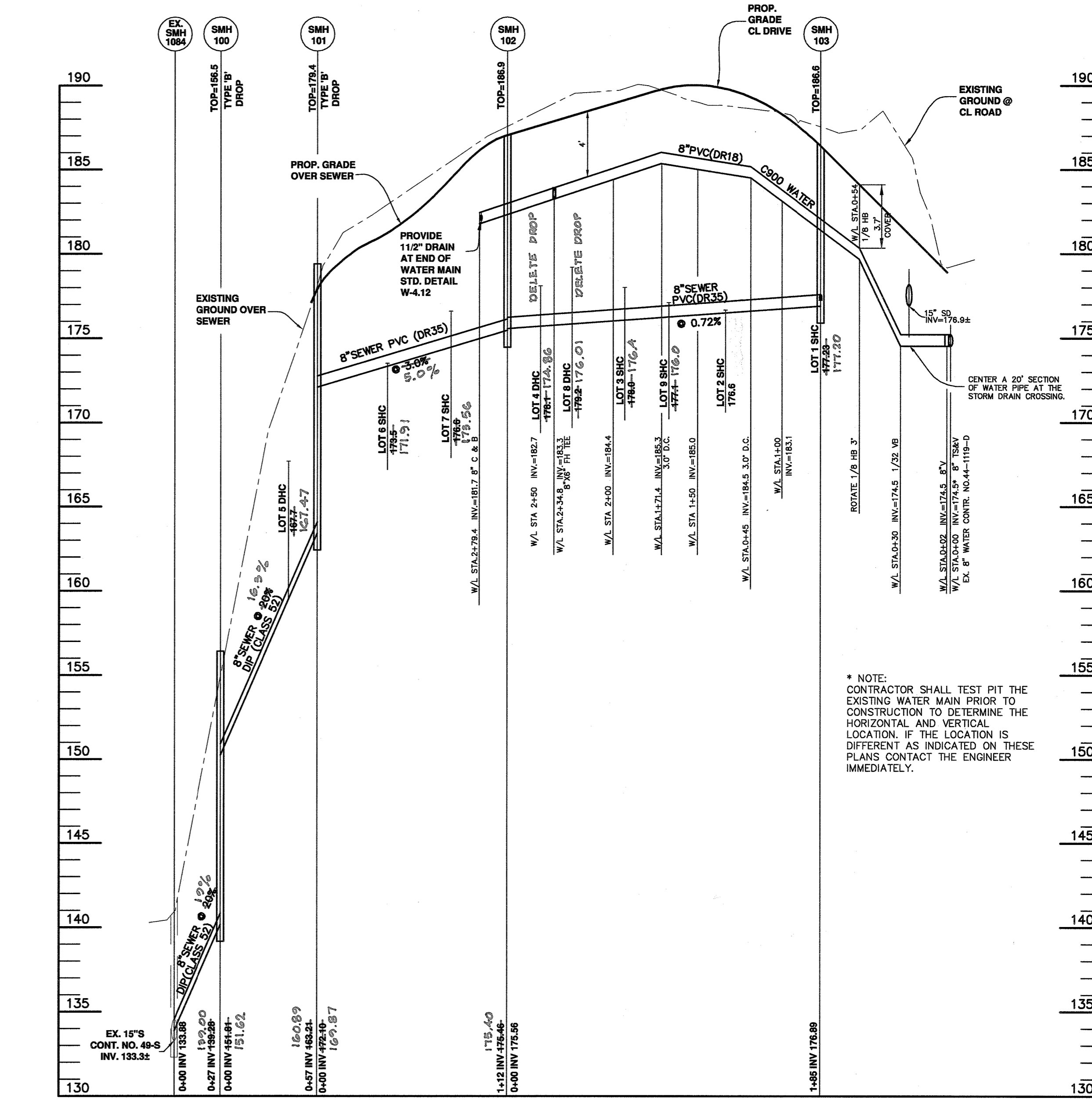
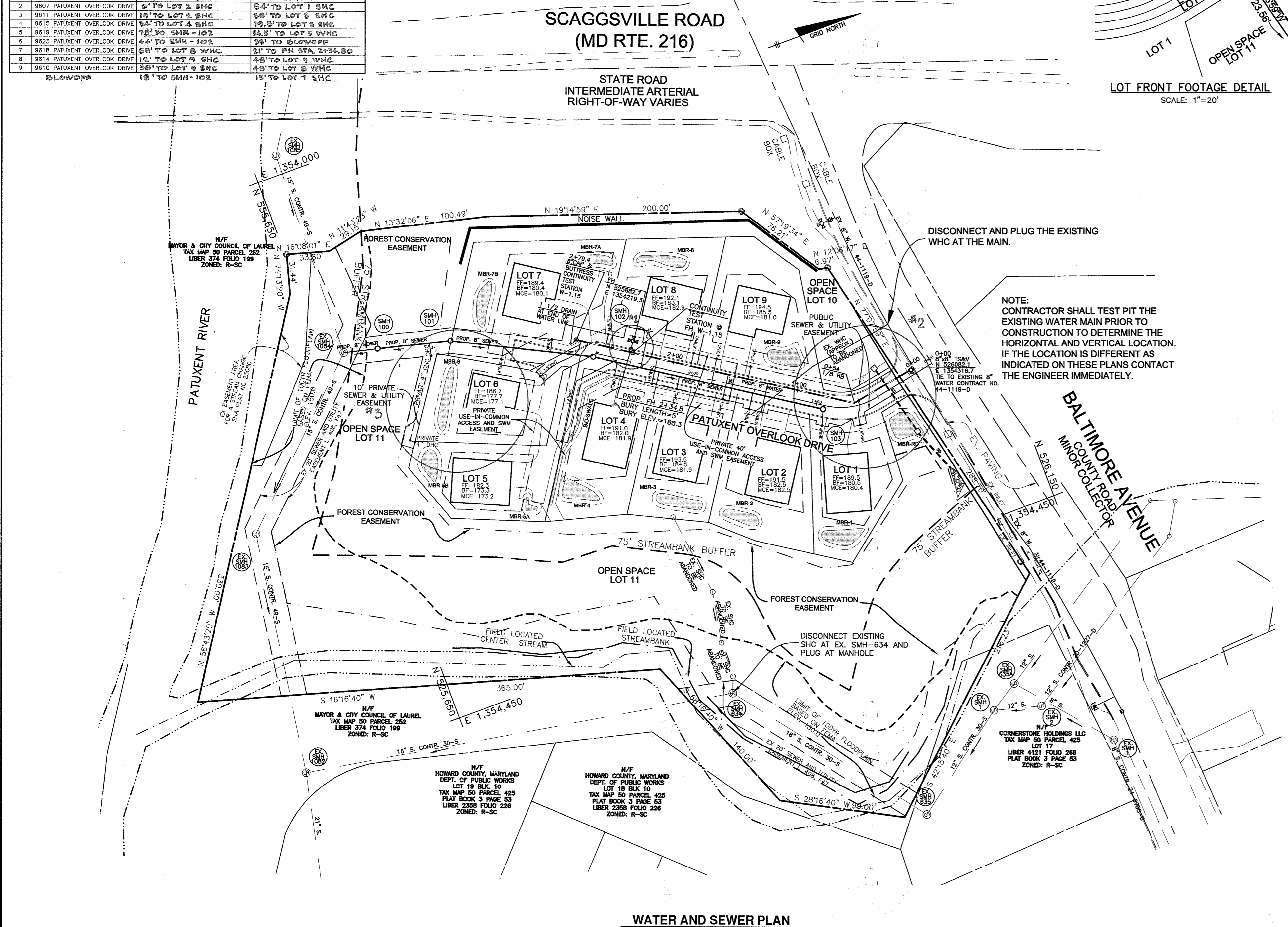
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5	9619 PATUXENT OVERLOOK DRIVE	78' TO SMH-10A	64.9' TO LOT 5 WHC
6	9623 PATUXENT OVERLOOK DRIVE	44' TO SMH-10A	39' TO BLOWOFF
7	9618 PATUXENT OVERLOOK DRIVE	68' TO LOT 8 SHC	31' TO F14 STA. 2+34.80
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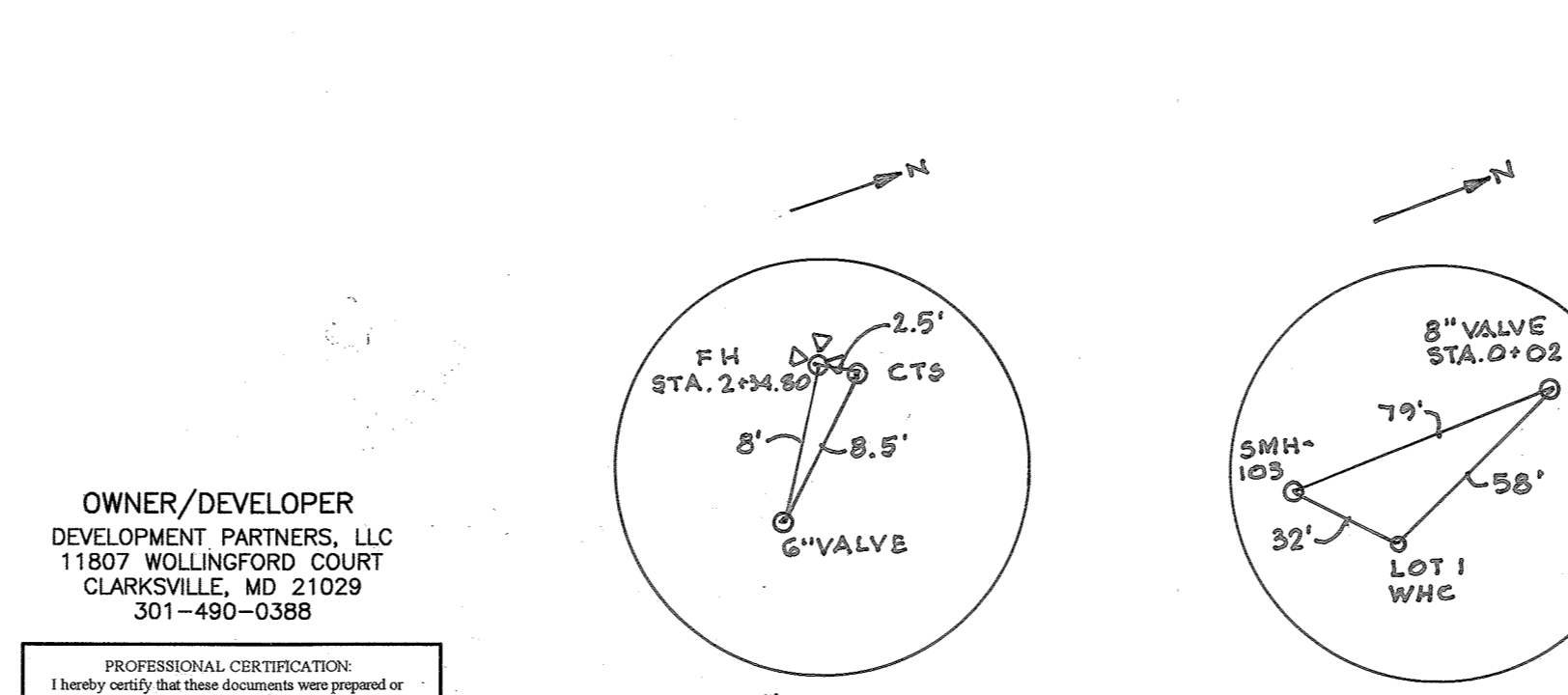
SEWER MANHOLE - STRUCTURE SCHEDULE									
NO.	TYPE	LOCATION	INVERT IN	SHC INV.	INVERT OUT	TOP ELEV.	HO.CO. STD.	REMARKS	
SMH-100	TYPE 'B' DROP MANHOLE	N 525692.09 E 1354155.24	151.81	-	139.28	156.5	S-1.32		
SMH-101	TYPE 'B' DROP MANHOLE	N 525748.04 E 1354168.95	172.10	-	163.21	179.4	S-1.32		
SMH-102	STD. 4.0' PRE-CAST	N 525848.96 E 1354219.96	175.56	-	175.46	186.9	G-5.12		
SMH-103	STD. 4.0' PRE-CAST TERMINAL MANHOLE	STA. 0+94.3' LT.	-	177.23	176.89	186.6	S-1.31		

NOTES:
1. STRUCTURE LOCATION FOR MANHOLES IS AT THE CENTER OF THE STRUCTURE.



OWNER/DEVELOPER
DEVELOPMENT PARTNERS, LLC
11807 WOLLINGFORD COURT
CLARKSVILLE, MD 21029
301-490-0388

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. 22390, Expiration Date: 6/30/2015



WATER AND SEWER PROFILE
SCALE: 1"=50' HORIZ., 1"=5' VERT.

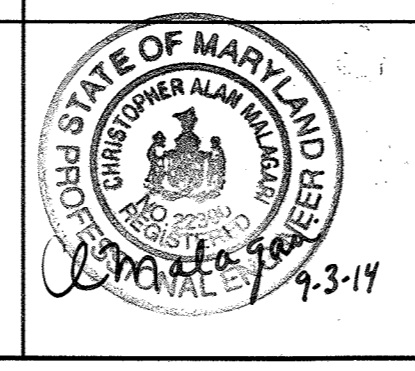
DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Chief, Bureau of Utilities
DATE: 10/21/14

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND

Chief, Development Engineering Division
DATE: 10/21/14

BENCHMARK ENGINEERING, INC.
8480 BALTIMORE NATIONAL PIKE SUITE 315 & ELLICOTT CITY, MARYLAND 21043
(P) 410-485-8105 (F) 410-485-6644
WWW.BE-CIVILENGINEERING.COM



DES:	JCO				
DRN:	JCO				
CHK:	CAM				
DATE:	SEPT 2014	BY	NO.	REVISIONS	DATE

PUBLIC WATER AND SEWER PLAN AND PROFILE

600 SCALE MAP: 27
BLOCK: 1

8801 BALTIMORE AVENUE
PATUXENT OVERLOOK
LOTS 1-9 AND OPEN SPACE LOTS 10 & 11
TAX MAP 50, GRID 02, PARCELS 257
6TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

CONTRACT No. 24-4850-D

SCALE: AS SHOWN
SHEET NO. 2 OF 2

AS-BUILT
Date: 11/21/19