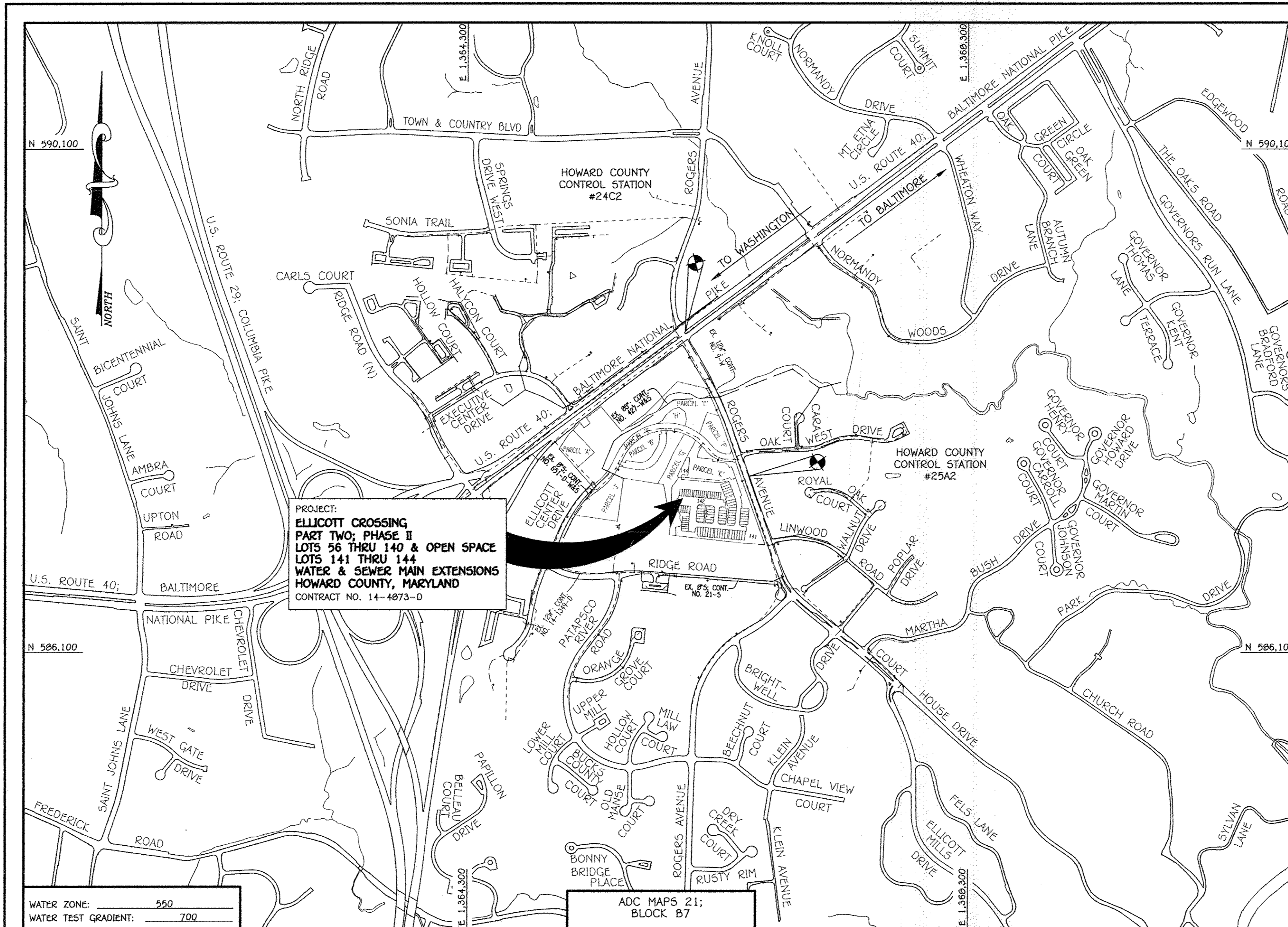


QUANTITIES					
ITEM	ESTIMATED	AS-BUILT		SUPPLIER	
		QUANTITIES	TYPE		
8" PVC, SOP-35	1,717 L.F.	1,717 L.F.	PVC SDR-35	FERGUSON/NATIONAL PIPE & PLASTICS	
6" PVC, SOP-35	115 L.F.	115 L.F.	PVC SDR-35	FERGUSON/NATIONAL PIPE & PLASTICS	
4" PVC, SOP-35	2,142 L.F.	2,142 L.F.	PVC SDR-35	FERGUSON/NATIONAL PIPE & PLASTICS	
MANHOLE	14 EACH	14 EA.	PRECAST/CONCRETE		
6" C900 PVC, DE-18	1,839 L.F.	1,839 L.F.	C900 DR-18	FERGUSON/NATIONAL PIPE & PLASTICS	
6" C900 PVC, DE-18	122 L.F.	122 EA.	C900 DR-18	FERGUSON/NATIONAL PIPE & PLASTICS	
1-1/2" W/C	2,094 L.F.	2,094 L.F.	TYPE K SOFT COPPER	FERGUSON/WHEELER INDUSTRIES	
1/8" H.B.	3 EACH	3 EA.	PVC CLISO C900	FERGUSON/AULT FITTINGS	
1/16" H.B.	5 EACH	5 EA.	PVC CLISO C900	FERGUSON/AULT FITTINGS	
8" X 8" TEE	5 EACH	5 EA.	AT C153 FFDY	FERGUSON/TELEVISION FIBER	
8" X 8" TEE	5 EACH	5 EA.	AT C153 FFDY	FERGUSON/TELEVISION FIBER	
8" VALVE	12 EACH	12 EA.	AT GATE VALVE	FERGUSON/VALVE COMPANY	
6" VALVE	5 EACH	5 EA.	AT GATE VALVE	FERGUSON/VALVE COMPANY	
FIRE HYDRANT	5 EACH	5 EA.	A423	FERGUSON/VALVE COMPANY	
8" PLUG & BUTTRESS	3 EACH	3 EA.	PVC-C100	FERGUSON/HANDA FITTINGS	
CONTINUITY TEST STATION	5 EACH	5 EA.	PRECAST VAULT		
12" X 8" T.S. & V.	1 EACH	1 EA.	#663 S.S.	FERGUSON/SMITH BLAIR	
1/32" H.B.		1 EA.	PVC CLISO PVC	FERGUSON/AULT FITTINGS	
SINGLE OUTSIDE METER SETTING	81 EACH	81 EA.		FERGUSON/AY MCDONALD	
TWIN OUTSIDE METER SETTING	2 EACH	2 EA.		FERGUSON/AY MCDONALD	
AIR RELEASE VALVE & MANHOLE	1 EACH	1 EA.	2" BRASS NRS GATE VALVE	FERGUSON/AY MCDONALD	

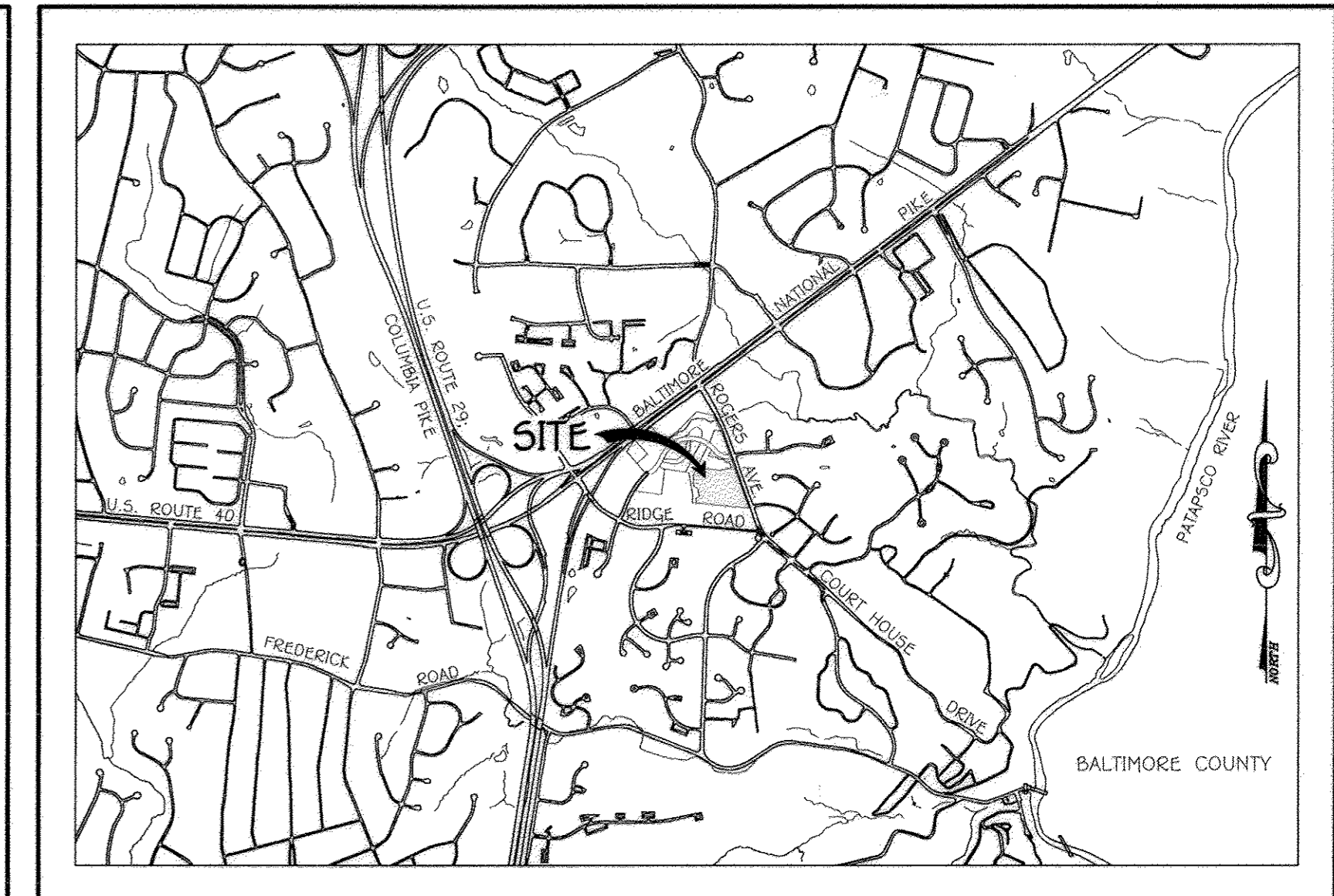
BENCHMARK INFORMATION

B.M.#1 - HOWARD COUNTY CONTROL STATION #242 - HORIZONTAL - NAD '83 (LOCATED IN THE MIDDLE OF MD ROUTE 40; BALTIMORE NATIONAL PIKE, IN THE NORTHEAST SIDE OF THE MEDIAN, AT THE INTERSECTION ON ROGERS AVENUE AND MD ROUTE 40) N 590.648.3703 E 1,366.6030.1388 ELEVATION = 354.017 - VERTICAL - (NAVD '88)

B.M.#2 - HOWARD COUNTY CONTROL STATION #252 - HORIZONTAL - NAD '83 (LOCATED ALONG ROGERS AVENUE, SOUTH OF OAK WEST DRIVE, APPROX. 6.2' SW OF SANITARY MANHOLE, ALONG THE EAST SIDE OF ROAD, APPROX. 67.8' NORTH OF HOUSE NO. 3329) N 591.502.7252 E 1,366.556.3776 ELEVATION = 348.145 - VERTICAL - (NAVD '88)



TYPE OF BUILDING: RESIDENTIAL (TOWNHOUSE / CONDOMINIUMS)		LOCATION MAP	
NUMBER OF LOTS:	85	SCALE: 1" = 600'	
NO. OF WATER HOUSE CONNECTIONS:	85		
NO. OF SEWER HOUSE CONNECTIONS:	85		
SEWER SHED:	PATAPSCO		
TREATMENT PLANT:	PATAPSCO WASTEWATER TREATMENT PLANT CITY OF BALTIMORE		



VICINITY MAP
SCALE: 1" = 2000'

- GENERAL NOTES**
- 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 ON OR ABOUT MARCH, 2011 BY FISHER, COLLINS & CARTER, INC.
 - HORIZONTAL AND VERTICAL SURVEY CONTROLS: THE COORDINATES SHOWN ON THE DRAWINGS ARE BASED ON MARYLAND STATE REFERENCE SYSTEM HAD '83/91' AS PROJECTED BY HOWARD COUNTY GEODETIC STATIONS NO. 242 & NO. 252. ALL VERTICAL CONTROLS ARE BASED ON NAVD '88. VERTICAL CONTROLS PROVIDED ON THE DRAWINGS.
 - 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 6'-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 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 DETAILS FOR CONSTRUCTION (LATEST EDITION). THE CONTRACTOR SHALL HAVE A COPY OF VOLUME IV ON THE JOB SITE.
 - WHERE TEST PITS HAVE BEEN MADE ON EXISTING UTILITIES, THEY ARE NOTED BY THE SYMBOL (S) AT THE LOCATIONS OF THE TEST PITS. A NOTE OR NOTES CONTAINING THE RESULTS OF THE TEST PIT OR PITS IS LOCATED 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 THE BEGINNING 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
BCE (CONTRACTOR SERVICES)	410-637-8713
BCE (EMERGENCY)	410-685-0123
BUREAU OF UTILITIES	410-313-4900
COLONIAL PIPELINE CO	410-795-1990
MISS UTILITY	1-800-297-7777
STATE HIGHWAY ADMINISTRATION	410-531-5533
VERIZON	1-800-743-0035 / 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.
 - 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 THE CONSTRUCTION OF THE MAIN.
 - THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY, AT (410)-313-7450 AT LEAST FIVE WORKING DAYS BEFORE CUTTING OR BORING/WORKING ON ANY EXISTING 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 B: WATER MAIN GENERAL NOTES**
- ALL WATER MAINS SHALL BE AWMA C900 PVC DR-18.
 - TOPS OF ALL WATER MAINS SHALL HAVE A MINIMUM OF 3'-6" OF COVER UNLESS OTHERWISE NOTED.
 - VALVES ADJACENT TO TREES SHALL BE STRAPPED TO TREES.
 - ALL FITTINGS SHALL BE BUTTERFLEDGED 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 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 D.I.P. AND PVC WATER MAINS IN ACCORDANCE WITH HOWARD COUNTY DESIGN MANUAL.
 - FOR PVC WATER MAINS, ALL RECORDS FOR THE QUALITY CONTROL AND QUALIFICATION TEST REQUIREMENTS NOTED IN SECTION 9.1 OF THE AWMA STANDARD C900 FOR PVC PRESSURE PIPE SHALL BE SUBMITTED WITH THE PIPE MATERIAL. CERTIFICATIONS OR SHOP 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 HARNESSSES. 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 COVER OR INSERT OR CUT FROM 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 COUPLINGS. NO BENDING OF THE PIPE OR DEFLECTING OF PVC 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, TAKING CARE NOT TO USE CONNECTION EQUIPMENT DIRECTLY OVER THE FITTING.
 - PVC HIGH DEFLECTION COUPLINGS SHALL BE LIMITED TO A TOTAL OF 3-DEGREE (1-DEGREE ON EITHER END OF THE COUPLING), SHALL BE RATED FOR A MINIMUM 220 PSI MEETING THE REQUIREMENTS OF AWMA 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.
 - 5-DEGREE SWEEPS SHALL BE BELL BY SPIGOT, RATED FOR A MINIMUM 225 PSI, DR-18 MEETING THE REQUIREMENTS OF AWMA C900 AND SHALL BE MULTI FITTINGS (IFEX) BLUE BRUTE DR-18 OR EQUAL.
 - WHEN PVC HIGH DEFLECTION COUPLINGS OR PVC 5-DEGREE SWEEPS ARE USED TO FACILITATE CHANGES IN HORIZONTAL OR VERTICAL ALIGNMENTS OF AWMA C900 PVC PIPELINES, THE CONTRACTOR SHALL INSERT DEVICES FOR THE PREVENTION OF OVER-INSERTION OF THE PVC PIPE SPIGOTS OR PLUG 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 3000 PSI HIGH-STRENGTH AS MANUFACTURED BY FEMA IRON, INC. OR APPROVED EQUAL.
 - TO ACCOMMODATE A SPRINKLER SYSTEM, ALL RESIDENTIAL DWELLING UNITS SHALL HAVE A 1-1/2" WATER HOUSE CONNECTION WITH A 1" OUTSIDE METER SETTING, STD. DET. W-3.28.

PART C: SEWER MAIN GENERAL NOTES

- 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 18" WALLS ARE FOR BRICK MANHOLES ONLY.
- MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATERTIGHT FRAME AND COVER, STANDARD DETAIL G5.92. 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.

DEVELOPER'S CERTIFICATION

I/WE HEREBY CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL, AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT THE DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY.

Paul W. Kriebel; FOR: M&T Developers, LLC
SIGNATURE OF DEVELOPER
07-31-14
DATE

ENGINEER'S CERTIFICATION

I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

Paul W. Kriebel
SIGNATURE OF ENGINEER
07/31/14
DATE

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 30B OF THE HOWARD COUNTY DESIGN MANUAL, VOLUME IV: STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION AND AS SHOWN ON THIS SITE DEVELOPMENT PLAN, SDP-13-004.

Paul W. Kriebel; FOR: M&T Developers, LLC
SIGNATURE OF DEVELOPER
07-31-14
DATE

SDP-13-004

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

APPROVED:
John R. Roberts
8/14/14
HOWARD SOIL CONSERVATION DISTRICT

LEGEND	
SYMBOL	DESCRIPTION
---	EX. WATER MAIN
---	EX. SEWER MAIN
o	EX. SEWER MANHOLE
---	EX. WATER, SEWER & UTILITY EASEMENT
o	EX. FIRE HYDRANT
o	EX. VALVE
---	PROP. WATER MAIN
---	PROP. SEWER MAIN
o	PROP. SEWER MANHOLE
---	PROP. WATER, SEWER & UTILITY EASEMENT
---	PROP. W/C
---	PROP. SHC
o	PROP. FIRE HYDRANT
o	PROP. VALVE

CONTRACT NO. 14-4873-D

ELlicott CROSSING

PART TWO: PHASE II

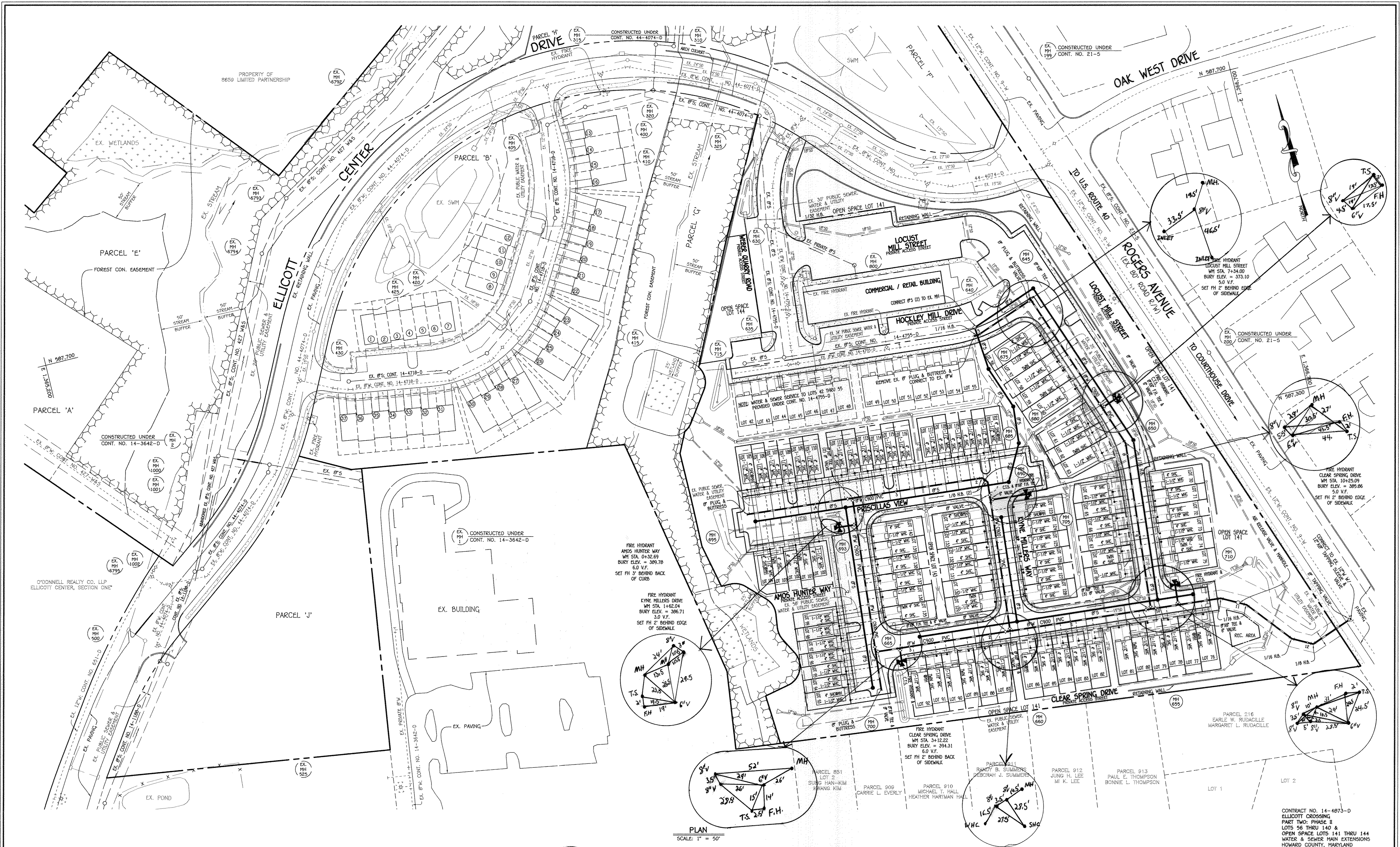
LOTS 56 THRU 140 & OPEN SPACE

LOTS 141 THRU 144

WATER & SEWER MAIN EXTENSIONS

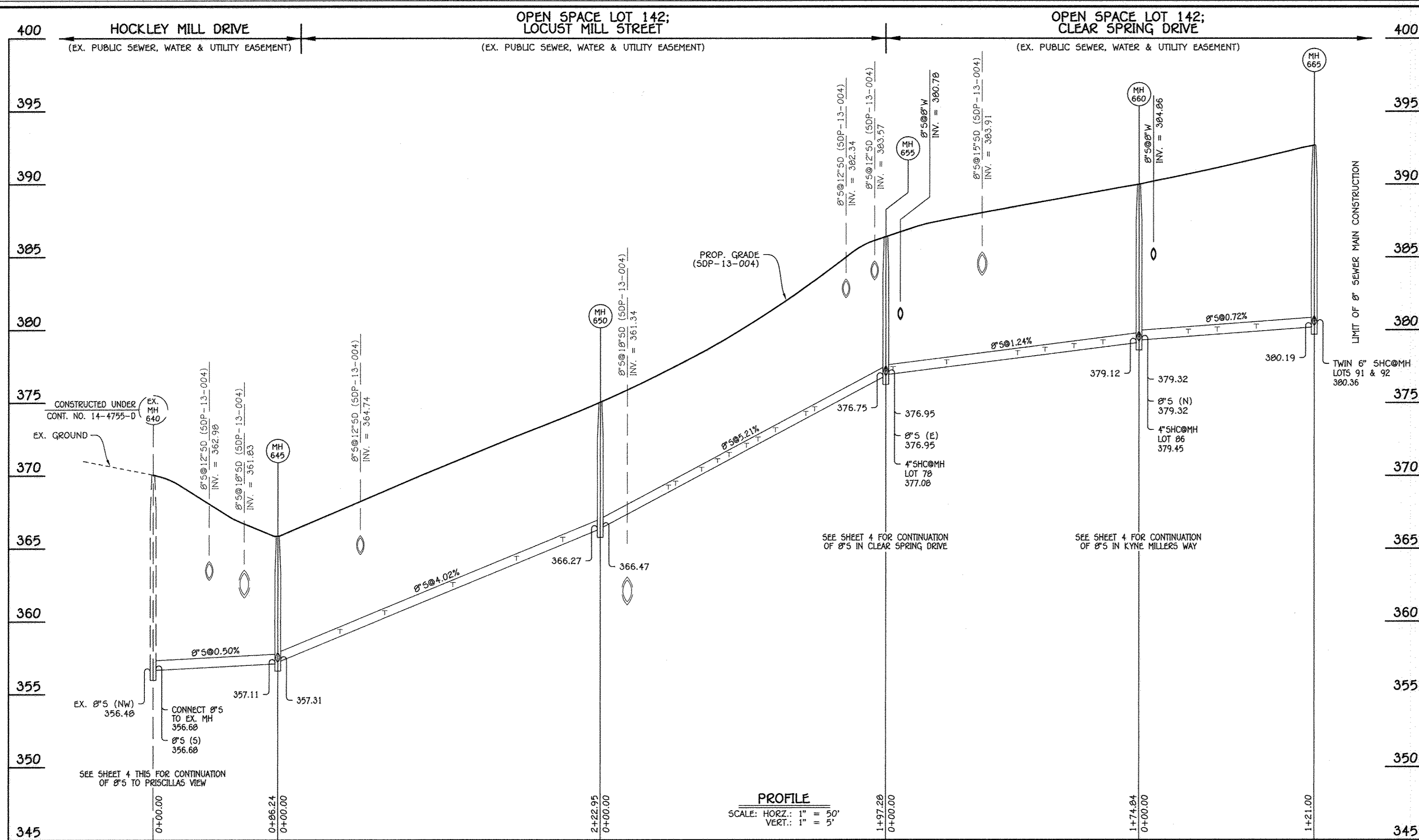
HOWARD COUNTY, MARYLAND

<p>DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND</p> <p>John R. Roberts 8/14/14 DATE</p>	<p>DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND</p> <p>Paul W. Kriebel 8-20-14 DATE</p>	<p>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. 12043 EXPIRATION DATE IS 7/16/14.</p> <p>FISHER, COLLINS & CARTER, INC. CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS CENTRAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE ELLICOTT CITY, MARYLAND 21042 (410) 461-2855</p>	<p>DESIGNED BY: B.C.R. DRAWN BY: B.C.R. CHECKED BY: P.W.K. DATE: AUGUST, 2014 BY NO.</p> <p>AS-BUILTS</p>	<p>WATER & SEWER MAIN EXTENSIONS TITLE SHEET</p> <p>600' SCALE MAP NO. 24/25 BLOCK NO. 6/1 F.C.C. WORK ORDER NO. 10040 FILE NAME: WATER & SEWER MAIN EXTENSION TITLE SHEET</p>	<p>ELlicott CROSSING PART TWO: PHASE II LOTS 56 THRU 140 & OPEN SPACE LOTS 141 THRU 144 WATER & SEWER MAIN EXTENSIONS CONTRACT NO. 14-4873-D SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND</p> <p>SCALE AS SHOWN SHEET 1 OF 7</p>
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PLAN
SCALE: 1" = 50'

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND CHIEF, BUREAU OF UTILITIES	DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND CHIEF, DEVELOPMENT ENGINEERING DIVISION	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. 12043 EXPIRATION DATE IS 7/16/14. FISHER, COLLINS & CARTER, INC. CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS CENTENNIAL SQUARE OFFICE PARK - 10272 BALDWIN NATIONAL PIKE ELICOTT CITY, MARYLAND 21042 (410) 461-2999	DESIGNED BY: B.C.R.	AS-BUILTS REVISION	8/11/15 DATE	600' SCALE MAP NO. 24/25 BLOCK NO. 6/1 F.C.C. WORK ORDER NO. 10040 FILE NAME: WATER & SEWER MAIN EXTENSION PLAN	ELICOTT CROSSING PART TWO: PHASE II LOTS 56 THRU 140 & OPEN SPACE LOTS 141 THRU 144 WATER & SEWER MAIN EXTENSIONS CONTRACT NO. 14-4873-D SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND	SCALE AS SHOWN SHEET 2 OF 7
			DRAWN BY: B.C.R.					



SEWER HOUSE CONNECTION CHART					
STATION	LOT	ELEVATION AT MAIN	ELEVATION AT EASEMENT	M.C.E.	B.E.
MH 645 TO MH 650					
0+43 RT.	56	359.21	359.71	363.71	378.24
0+74 RT.	57	360.36	360.86	364.86	380.24
0+74 RT.	58	360.36	360.86	364.86	380.91
1+21 RT.	59	362.25	362.75	366.75	381.58
1+21 RT.	60	362.25	362.75	366.75	382.25
1+65 RT.	61	364.11	364.75	368.65	384.16
@MH 650 RT.	62	365.31	365.97	369.87	384.83
@MH 650 RT.	63	365.31	365.97	369.87	385.50
MH 650 TO MH 655					
0+47 RT.	64	369.09	369.79	373.29	388.50
0+52 LT.	70	369.35	369.65	373.45	388.50
0+70 LT.	71	370.29	370.59	374.39	389.83
0+81 RT.	65	370.86	371.56	375.06	390.16
0+89 LT.	72	371.28	371.58	375.38	390.50
1+01 RT.	66	371.90	372.60	376.10	390.83
1+09 LT.	73	372.32	372.62	376.42	392.50
1+21 RT.	67	372.94	373.64	377.14	392.16
1+42 RT.	68	373.95	374.65	378.15	392.83
1+42 LT.	69	373.95	374.65	378.15	394.83
1+48 LT.	74	374.26	374.56	378.36	394.50
1+48 LT.	75	374.26	374.56	378.36	395.83
@MH 655 CEN.	78	377.08	377.60	381.60	397.71

SEWER HOUSE CONNECTION CHART					
STATION	LOT	ELEVATION AT MAIN	ELEVATION AT EASEMENT	M.C.E.	B.E.
MH 655 TO MH 660					
0+05 LT.	79	377.18	377.90	381.70	397.71
0+42 LT.	80	377.55	378.27	382.07	398.38
0+42 LT.	81	377.55	378.27	382.07	399.05
0+91 LT.	82	378.25	378.97	382.77	399.33
1+10 LT.	83	378.48	379.20	383.00	400.00
1+30 LT.	84	378.73	379.45	383.25	400.66
1+50 LT.	85	378.98	379.70	383.50	400.66
@MH 660 LT.	86	379.45	380.17	383.97	401.34
MH 660 TO MH 665					
0+34 LT.	87	379.73	380.25	384.25	401.33
0+54 LT.	88	379.88	380.40	384.40	402
0+81 LT.	89	379.98	380.50	384.50	402.67
0+81 LT.	90	379.98	380.50	384.50	402.67
@MH 665 LT.	91	380.36	380.88	384.88	403.34
@MH 665 LT.	92	380.36	380.88	384.88	404

8" SEWER MAIN: HOCKLEY MILL DRIVE, LOCUST MILL STREET & CLEAR SPRING DRIVE

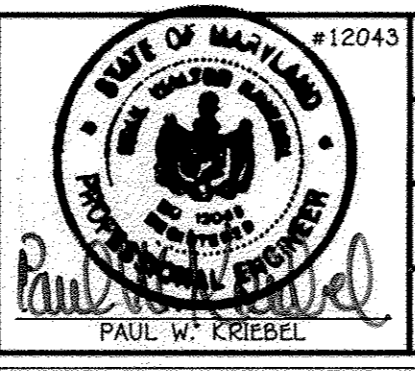
MANHOLE TABULATION CHART			
NO.	NORTHING	EASTING	RIM ELEVATION
645	587499.11	1366401.17	365.84
650	587289.28	1366476.52	375.05
655	587092.79	1366458.88	386.39
660	587108.55	1366284.75	390.00
665	587119.45	1366164.24	392.68

NOTE: SET MH RIMS FLUSH W/PROPOSED GRADE.

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
M. Kelly R. 86 8/14
CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND
C. J. [Signature]
CHIEF, DEVELOPMENT ENGINEERING DIVISION
8-20-14
DATE M.G.

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. 12043 EXPIRATION DATE IS 7/16/14.
FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL FILE
ELLCOTT CITY, MARYLAND 21042
(410) 461-2999



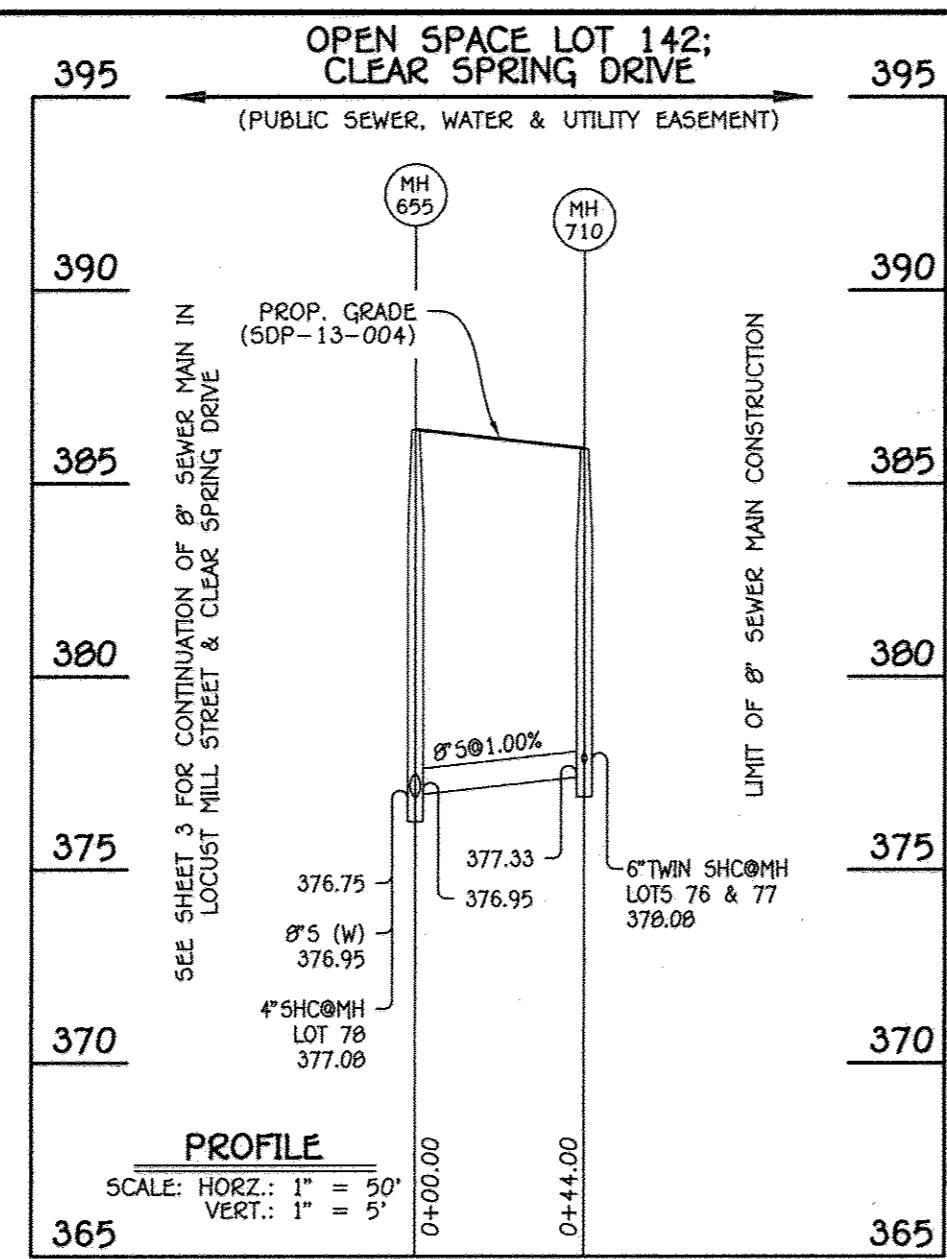
DESIGNED BY: B.C.R.
DRAWN BY: B.C.R.
CHECKED BY: P.W.K.
DATE: AUGUST, 2014
BY NO. REVISION DATE

SEWER MAIN EXTENSIONS
PROFILE & CHARTS
600' SCALE MAP NO. 24/25 BLOCK NO. 6/1
F.C.C. WORK ORDER NO. 10040
FILE NAME: WATER & SEWER MAIN EXTENSION PROFILES

ELLCOTT CROSSING
PART TWO: PHASE II
LOTS 56 THRU 140 & OPEN SPACE
LOTS 141 THRU 144
WATER & SEWER MAIN EXTENSIONS
CONTRACT NO. 14-4873-D
SECOND ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
SHEET 3 OF 7

CONTRACT NO. 14-4873-D
ELLCOTT CROSSING
PART TWO: PHASE II
LOTS 56 THRU 140 & OPEN SPACE
LOTS 141 THRU 144
WATER & SEWER MAIN EXTENSIONS
HOWARD COUNTY, MARYLAND



8" SEWER MAIN: CLEAR SPRING DRIVE

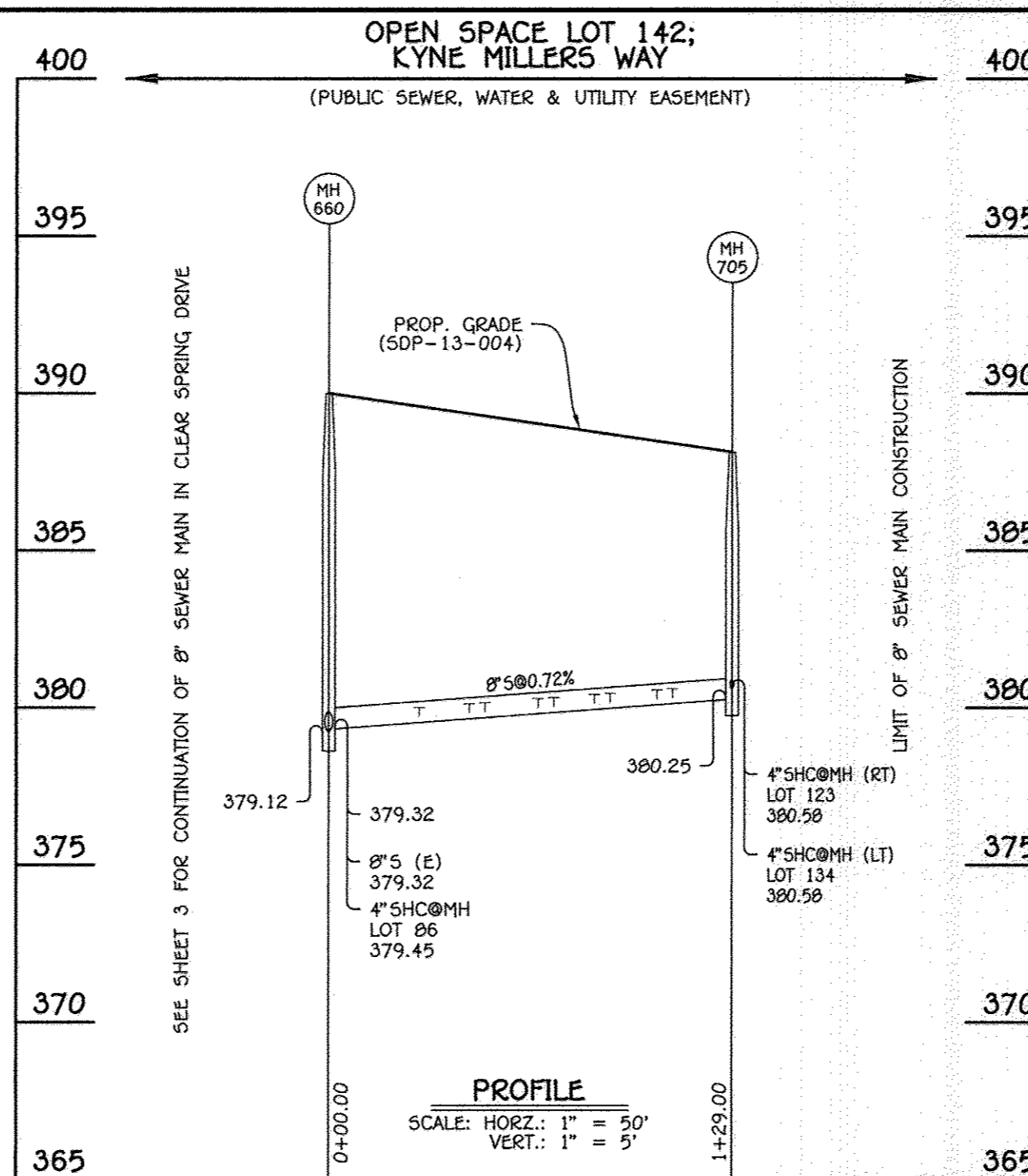
MANHOLE TABULATION CHART

NO.	NORTHING	EASTING	RIM ELEVATION
655	587092.79	1366458.88	386.39
710	587088.82	1366502.70	385.90

NOTE: SET MH RIMS FLUSH W/PROPOSED GRADE.

SEWER HOUSE CONNECTION CHART

STATION	LOT	ELEVATION AT MAIN	ELEVATION AT EASEMENT	M.C.E.	B.E.
MH 655 TO MH 710					
8"MH 710 RT.	77	377.56	378.08	382.08	397.05
8"MH 710 RT.	76	377.56	378.08	382.08	396.38



8" SEWER MAIN: KYNE MILLERS WAY

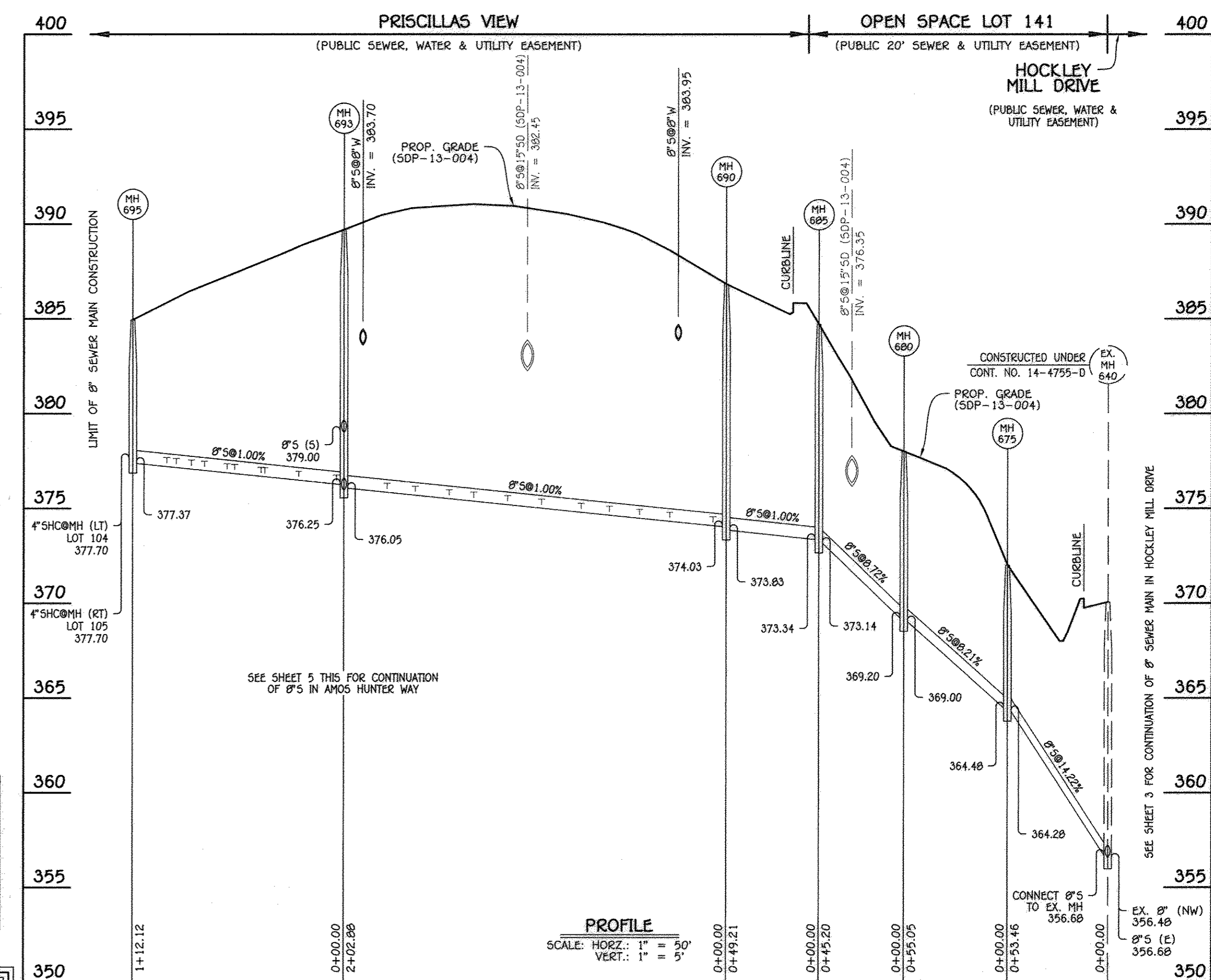
MANHOLE TABULATION CHART

NO.	NORTHING	EASTING	RIM ELEVATION
660	587108.54	1366284.75	389.99
705	587237.02	1366296.37	388.12

NOTE: SET MH RIMS FLUSH W/PROPOSED GRADE.

SEWER HOUSE CONNECTION CHART

STATION	LOT	ELEVATION AT MAIN	ELEVATION AT EASEMENT	M.C.E.	B.E.
MH 660 TO MH 705					
0+29 RT.	128	379.70	380.04	383.84	391.67
0+45 LT.	129	379.72	380.18	383.98	391.34
0+45 LT.	130	379.72	380.18	383.98	390.67
0+50 RT.	127	379.85	380.19	383.99	391.00
0+67 LT.	131	379.97	380.43	384.23	390.67
0+72 RT.	126	380.01	380.35	384.15	390.34
0+85 LT.	132	380.10	380.56	384.36	390.67
0+90 RT.	125	380.14	380.48	384.28	390.34
1+05 LT.	133	380.25	380.71	384.51	390.67
1+10 RT.	124	380.28	380.62	384.42	389.67
1+29 RT.	123	380.58	380.92	384.72	389.67
1+29 LT.	134	380.58	381.04	384.84	390.67



8" SEWER MAIN: PRISCILLAS VIEW

MANHOLE TABULATION CHART

NO.	NORTHING	EASTING	RIM ELEVATION
675	587416.68	1366324.43	372.00
680	587364.87	1366343.04	378.00
685	587319.84	1366338.99	384.70
690	587276.56	1366315.55	386.83
693	587294.85	1366113.50	389.69
695	587304.96	1366001.83	384.94

NOTE: SET MH RIMS FLUSH W/PROPOSED GRADE.

SEWER HOUSE CONNECTION CHART

STATION	LOT	ELEVATION AT MAIN	ELEVATION AT EASEMENT	M.C.E.	B.E.
MH 690 TO MH 693					
0+07 RT.	122	374.27	375.07	378.77	378.78
0+30 RT.	121	374.50	375.30	379.00	380.11
0+46 RT.	120	374.66	375.46	379.16	380.79
0+62 RT.	119	374.82	375.62	379.32	381.45
0+77 RT.	118	374.97	375.77	379.47	382.11
0+98 RT.	117	375.18	375.98	379.68	382.11
1+16 RT.	116	375.36	376.16	379.86	382.41
1+34 RT.	115	375.54	376.34	380.04	382.41
1+47 RT.	114	375.67	376.47	380.17	382.41
1+65 RT.	113	375.85	376.65	380.35	382.41
1+80 RT.	112	376.00	376.80	380.50	381.74

SEWER HOUSE CONNECTION CHART

STATION	LOT	ELEVATION AT MAIN	ELEVATION AT EASEMENT	M.C.E.	B.E.
MH 693 TO MH 695					
0+04 RT.	111	376.46	377.26	380.96	381.07
0+24 RT.	110	376.66	377.46	381.16	379.51
0+42 RT.	109	376.84	377.64	381.34	378.84
0+44 LT.	100	376.86	377.60	381.20	378.93
0+58 RT.	108	377.00	377.80	381.50	378.17
0+62 LT.	101	377.04	377.78	381.38	378.93
0+74 RT.	107	377.16	377.96	381.66	378.17
0+81 LT.	102	377.23	377.97	381.57	378.26
0+89 RT.	106	377.31	378.11	381.81	377.50
0+94 LT.	103	377.36	378.10	381.70	377.59
8"MH 695 RT.	105	377.70	378.50	382.20	376.83
8"MH 695 LT.	104	377.70	378.44	382.04	376.92

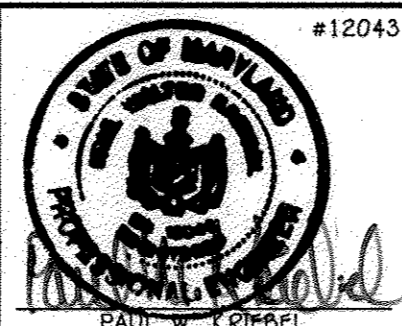
* FIRST FLOOR GRAVITY SEWER SERVICE ONLY

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND

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. 12243 EXPIRATION DATE IS 7/16/14.

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTRAL SQUARE OFFICE PARK - 10272 BALDORNE NATIONAL FIELDS
ELLCOTT CITY, MARYLAND 21042
(410) 461-2855



DESIGNED BY: B.C.R.
DRAWN BY: B.C.R.
CHECKED BY: P.W.K.
DATE: AUGUST, 2014

SEWER MAIN EXTENSIONS
PROFILES & CHARTS

600' SCALE MAP NO. 24/25 BLOCK NO. 6/1
F.C.C. WORK ORDER NO. 10940
FILE NAME: WATER & SEWER MAIN EXTENSION PROFILES

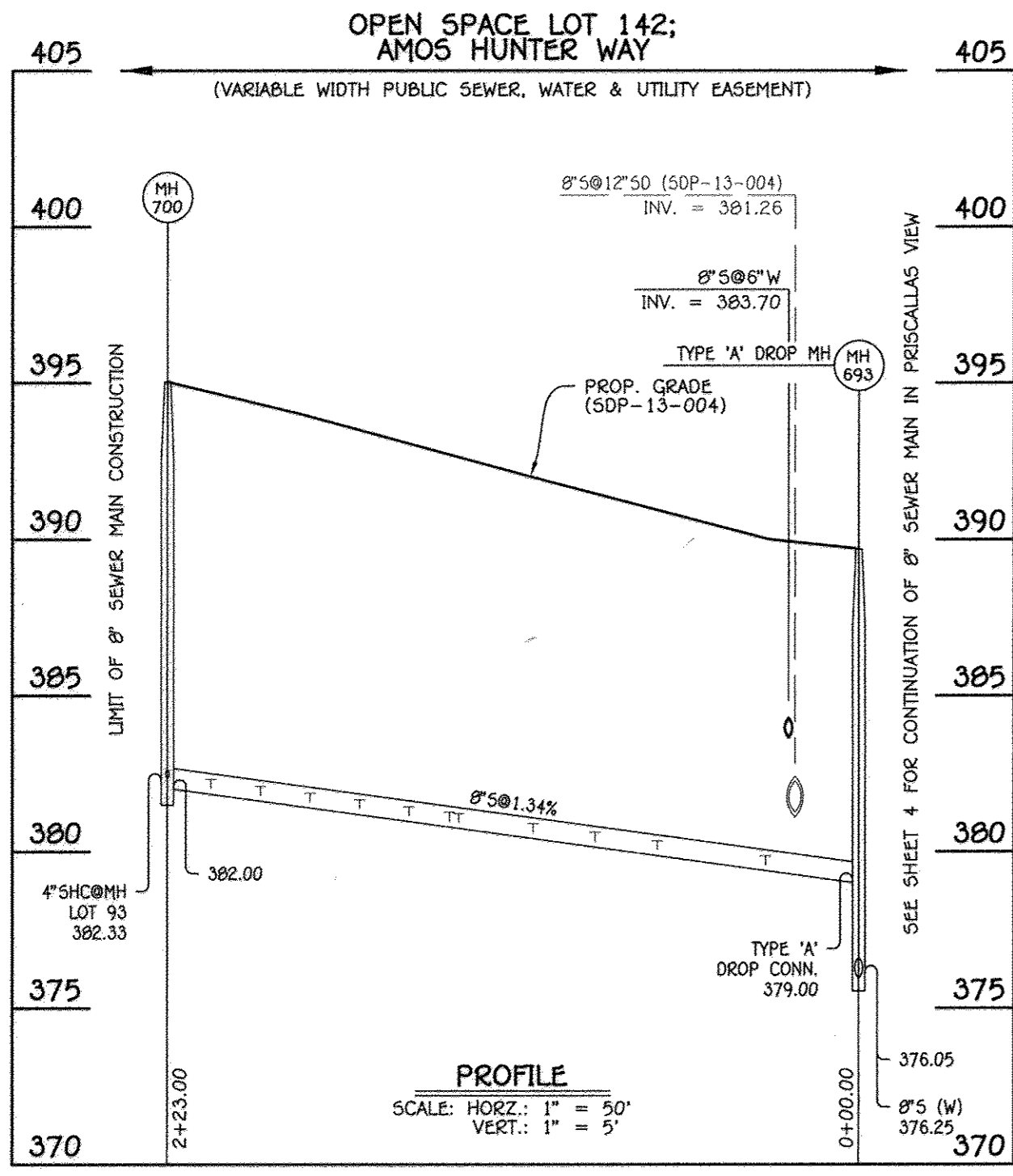
ELLCOTT CROSSING
PART TWO: PHASE II
LOTS 56 THRU 140 & OPEN SPACE
LOTS 141 THRU 144
WATER & SEWER MAIN EXTENSIONS
CONTRACT NO. 14-4873-D
SECOND ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

SCALE
AS
SHOWN
SHEET
4 OF 7

CHIEF, BUREAU OF UTILITIES
DATE: 8/8/14

CHIEF, DEVELOPMENT ENGINEERING DIVISION
DATE: 8-20-14

CONTRACT NO. 14-4873-D
ELLCOTT CROSSING
PART TWO: PHASE II
LOTS 56 THRU 140 &
OPEN SPACE LOTS 141 THRU 144
WATER & SEWER MAIN EXTENSIONS
HOWARD COUNTY, MARYLAND



8" SEWER MAIN: AMOS HUNTER WAY

MANHOLE TABULATION CHART

NO.	NORTHING	EASTING	RIM ELEVATION
693	587294.85	1366113.50	389.69
700	587072.76	1366093.40	395.03

SEWER HOUSE CONNECTION CHART

STATION	LOT	ELEVATION AT MAIN	ELEVATION AT EASEMENT	M.C.E.	B.E.
MH 660 TO MH 705					
0+30 LT.	140	379.57	380.15	384.05	391.83
0+65 LT.	139	380.04	380.62	384.52	392.50
0+85 LT.	138	380.31	380.89	384.79	393.17
1+05 LT.	137	380.58	381.16	385.06	393.84
1+29 RT.	99	380.90	381.50	385.04	384.61
1+32 LT.	136	380.94	381.54	385.44	394.51
1+45 RT.	98	381.11	381.69	385.23	384.61
1+61 RT.	97	381.33	381.91	385.45	385.28
1+77 RT.	96	381.54	382.12	385.66	385.95
1+93 RT.	95	381.76	382.34	385.88	385.95
2+09 RT.	94	381.97	382.55	386.09	386.60
2+23 RT.	93	382.32	382.90	386.44	386.62

WATER HOUSE CONNECTION AS-BUILT LOCATION TABLE

LOT NUMBER	ADDRESS	LOCATION DIMENSION 1	LOCATION DIMENSION 2
56		10' to Lot 56 SHC	9.5' to Lot 57 WHC
57		9.5' to Lot 57 WHC	10' to Lot 57 SHC
58		9.5' to Lot 58 SHC	12.5' to Lot 59 WHC
59		12.5' to Lot 59 WHC	8' to Lot 59 SHC
60		9.5' to Lot 60 SHC	34.5' to Lot 61 SHC
61		10' to Lot 61 SHC	11' to Lot 62 WHC
62		11' to Lot 61 WHC	9.5' to Lot 62 SHC
63		8.5' to Lot 63 SHC	37' to Lot 64 SHC
64		10' to Lot 64 SHC	12.5' to Lot 65 WHC
65		12.5' to Lot 64 WHC	9' to Lot 65 SHC
66		9' to Lot 65 SHC	9' to Lot 66 SHC
67		10' to Lot 66 SHC	10' to Lot 67 SHC
68		10.5' to Lot 67 SHC	8' to Lot 68 SHC
69		7.5' to Lot 69 SHC	5' to SMH-655
70		6.5' to Lot 70 SHC	11.5' to Lot 71 SHC
71		6.5' to Lot 71 SHC	11.5' to Lot 72 SHC
72		7' to Lot 72 SHC	9' to Lot 73 SHC
73		10' to Lot 73 SHC	10' to Lot 74 WHC
74		10' to Lot 73 WHC	12.5' to Lot 74 SHC
75		7.5' to Lot 75 SHC	4' to SMH-655
76		24.5' to SMH-710	7.5' to Lot 76 SHC
77		18' to 8" Valve	5.5' to Lot 77 SHC
78		5.5' to Lot 78 SHC	26.5' to SMH-655
79		12.5' to 8" Valve	7.5' to Lot 80 WHC
80		7.5' to Lot 79 WHC	21' to 8" Valve
81		10.5' to Lot 81 SHC	31' to Lot 82 WHC
82		31' to Lot 81 WHC	9' to Lot 82 SHC
83		12.5' to Lot 82 SHC	6' to Lot 83 SHC
84		12.5' to Lot 83 SHC	7.5' to Lot 84 SHC
85		10.5' to Lot 84 SHC	8' to Lot 85 SHC
86		14' to Lot 85 SHC	27' to SMH-660
87		17' to 8" Valve	9.5' to Lot 87 SHC
88		10.5' to Lot 87 SHC	10.5' to Lot 88 SHC
89		10.5' to Lot 88 SHC	7.5' to Lot 89 SHC
90		10.5' to Lot 90 SHC	13.5' to Lot 91 WHC
91		12.5' to Lot 90 WHC	3' to SMH-665
92		29' to SMH-665	15.5' to Fire Hydrant
93		22' to SMH-700	6' to Lot 93 SHC
94		12.5' to Lot 93 SHC	33' to SMH-700
95		41' to SMH-700	5' to Lot 95 SHC
96		40' to 8" Valve	4' to Lot 96 SHC
97		44.5' to 8" Valve	2' to Lot 97 WHC
98		3' to Lot 98 SHC	14' to Lot 99 SHC
99		3' to Lot 99 SHC	66' to 8" Valve
100		40.5' to SMH-695	6' to Lot 105 SHC
101		16' to Lot 105 SHC	44' to SMH-695
102		52.5' to SMH-695	12' to Lot 106 SHC
103		5.5' to Lot 108 SHC	9' to Lot 107 SHC
104		24.5' to Fire Hydrant	6.5' to Lot 100 SHC
105		6' to Lot 101 SHC	12.5' to Lot 102 SHC
106		6' to Lot 101 SHC	12.5' to Lot 102 SHC
107		3' to Lot 103 SHC	16' to Lot 104 SHC
108		3' to Lot 103 SHC	16' to Lot 104 SHC
109		40.5' to SMH-695	6' to Lot 105 SHC
110		16' to Lot 105 SHC	44' to SMH-695
111		52' to SMH-695	12' to Lot 106 SHC
112		5.5' to Lot 108 SHC	9' to Lot 107 SHC
113		5.5' to Lot 114 SHC	11' to Lot 109 SHC
114		8' to Lot 117 SHC	11' to Lot 113 SHC
115		9.5' to Lot 114 SHC	3.5' to Lot 115 SHC
116		13' to Lot 115 SHC	6' to Lot 116 SHC
117		8' to Lot 117 SHC	11.5' to Lot 118 SHC
118		4' to Lot 118 SHC	11' to Lot 119 SHC
119		11.5' to Lot 120 SHC	5.5' to Lot 119 SHC
120		4' to Lot 120 SHC	56' to 8" Valve

WATER HOUSE CONNECTION AS-BUILT LOCATION TABLE

LOT NUMBER	ADDRESS	LOCATION DIMENSION 1	LOCATION DIMENSION 2
121		53.5' to 8" Valve	4.5' to Lot 121 SHC
122		44' to SMH-690	12.5' to Lot 121 WHC
123		22' to Fire Hydrant	19' to SMH-705
124		21' to SMH-705	10.5' to Lot 123 SHC
125		13' to Lot 124 SHC	7.5' to Lot 125 SHC
126		13' to Lot 125 SHC	6' to Lot 126 SHC
127		12.5' to Lot 126 SHC	7.5' to Lot 127 SHC
128		12.5' to Lot 127 SHC	9.5' to Lot 128 SHC
129		36' to SMH-660	10' to Lot 129 SHC
130		9.5' to Lot 130 SHC	13.5' to Lot 131 SHC
131		7.5' to Lot 131 SHC	9.5' to Lot 132 SHC
132		11' to Lot 132 SHC	10.5' to Lot 133 SHC
133		12.5' to Lot 133 SHC	22.5' to SMH-660
134		12.5' to Lot 133 WHC	23' to SMH-660
135		4.5' to SMH-665	9' to Lot 135 SHC
136		9' to Lot 136 SHC	10.5' to Lot 137 SHC
137		10.5' to Lot 137 SHC	10.5' to Lot 138 SHC
138		10' to Lot 138 SHC	10' to Lot 139 SHC
139		9' to Lot 139 SHC	16.5' to Lot 140 WHC
140		16.5' to Lot 139 WHC	8' to Lot 140 SHC

SEWER HOUSE CONNECTION AS-BUILT LOCATION TABLE

LOT NUMBER	ADDRESS	LOCATION DIMENSION 1	LOCATION DIMENSION 2
121		55' to 8" Valve	11.5' to Lot 120 WHC
122		43.5' to SMH-690	5' to Lot 122 WHC
123		19' to SMH-705	9' to Lot 123 WHC
124		37' to SMH-705	13' to Lot 125 WHC
125		7.5' to Lot 125 WHC	13' to Lot 126 WHC
126		6' to Lot 126 WHC	13.5' to Lot 127 WHC
127		7.5' to Lot 127 WHC	12.5' to Lot 128 WHC
128		9.5' to Lot 128 WHC	33.5' to SMH-660
129		10' to Lot 129 WHC	7' to Lot 130 SHC
130		7' to Lot 129 SHC	9.5' to Lot 130 WHC
131		13.5' to Lot 130 WHC	7.5' to Lot 131 WHC
132		9.5' to Lot 131 WHC	11' to Lot 132 WHC
133		10.5' to Lot 132 WHC	8.5' to Lot 133 WHC
134		24' to SMH-660	9.5' to Lot 134 WHC
135		9' to Lot 135 WHC	6' to Lot 136 SHC
136		10' to Lot 135 SHC	9' to Lot 136 WHC
137		10.5' to Lot 136 WHC	10.5' to Lot 137 WHC
138		10.5' to Lot 137 WHC	10' to Lot 138 WHC
139		10' to Lot 138 WHC	9' to Lot 139 WHC
140		8' to Lot 140 WHC	23' to 6" Valve

SEWER HOUSE CONNECTION AS-BUILT LOCATION TABLE

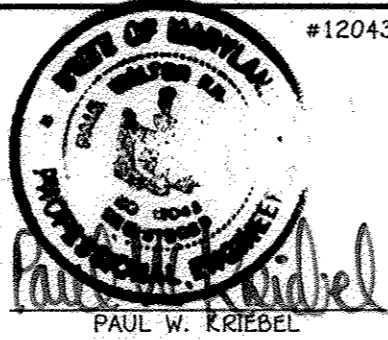
LOT NUMBER	ADDRESS	LOCATION DIMENSION 1	LOCATION DIMENSION 2
56		34.5' to 8" V	10' to Lot 56 WHC
57		10' to Lot 57 WHC	7.5' to Lot 58 SHC
58		7.5' to Lot 58 SHC	9.5' to Lot 58 WHC
59		8' to Lot 59 WHC	8' to Lot 60 SHC
60		8' to Lot 59 SHC	9.5' to Lot 60 WHC
61		34.5' to Lot 60 WHC	10' to Lot 61 WHC
62		9.5' to Lot 62 WHC	8.5' to Lot 63 SHC
63		8.5' to Lot 62 SHC	8.5' to Lot 63 WHC
64		37' to Lot 63 WHC	10' to Lot 64 WHC
65		9' to Lot 65 WHC	9' to Lot 66 WHC
66		10' to Lot 66 WHC	10' to Lot 67 WHC
67		10' to Lot 67 WHC	10.5' to Lot 68 WHC
68		8' to Lot 68 WHC	11' to Lot 69 SHC
69		11' to Lot 68 SHC	7.5' to Lot 69 WHC
70		55' to SMH-655	6.5' to Lot 70 WHC
71		11.5' to Lot 70 WHC	6.5' to Lot 71 WHC
72		11.5' to Lot 71 WHC	7' to Lot 72 WHC
73		9' to Lot 72 WHC	10' to Lot 73 WHC
74		12.5' to Lot 72 WHC	7' to Lot 75 SHC
75		7' to Lot 74 SHC	7.5' to Lot 75 WHC
76		26' to SMH-710	7.5' to Lot 76 WHC
77		26.5' to SMH-710	9' to Lot 76 SHC
78		18' to 8" Valve	8' to Lot 78 WHC
79		14.5' to 8" Valve	8.5' to Lot 78 SHC
80		7.5' to Lot 80 WHC	8' to Lot 81 SHC
81		8' to Lot 80 SHC	10.5' to Lot 81 WHC
82		9' to Lot 82 WHC	12.5' to Lot 83 WHC
83		6' to Lot 82 WHC	13.5' to Lot 84 WHC
84		7.5' to Lot 84 WHC	10.5' to Lot 85 WHC
85		8' to Lot 85 WHC	14' to Lot 86 WHC
86		38' to SMH-660	10' to Lot 86 WHC
87		9.5' to Lot 87 WHC	24.5' to 8" Valve
88		10.8' to Lot 88 WHC	10.5' to Lot 89 WHC
89		7.5' to Lot 89 WHC	9.5' to Lot 90 SHC
90		9.5' to Lot 89 SHC	10.5' to Lot 90 WHC
91		9' to Lot 91 WHC	24' to SMH-665
92		27.5' to SMH-665	7.5' to Lot 91 SHC
93		6' to Lot 93 WHC	32.5' to SMH-700
94		35' to SMH-700	4.5' to Lot 94 WHC
95		45' to SMH-700	5' to Lot 95 WHC
96		44' to 8" Valve	4' to Lot 96 WHC
97		44' to 8" Valve	2' to Lot 97 SHC
98		13' to Lot 97 WHC	3' to Lot 98 WHC
99		14' to Lot 98 WHC	3' to Lot 99 WHC
100		6.5' to Lot 100 WHC	19.5' to Lot 101 SHC
101		19.5' to Lot 100 SHC	6' to Lot 101/102 WHC
102		12.5' to Lot 101/102 WHC	14.5' to Lot 103 SHC
103		14.5' to Lot 103 SHC	3' to Lot 103/104 WHC
104		16' to Lot 103/104 WHC	38' to SMH-695
105		42' to SMH-695	6' to Lot 105 WHC
106		48.5' to SMH-695	5' to Lot 106 WHC
107		4.5' to Lot 107 WHC	9' to Lot 108 WHC
108		5.5' to Lot 108 WHC	13.5' to Lot 109 WHC
109		4.5' to Lot 109 WHC	11' to Lot 110 WHC
110		6.5' to Lot 110 WHC	44' to SMH-693
111		45' to SMH-693	4.5' to Lot 111 WHC
112		45.5' to SMH-693	4.5' to Lot 112 WHC
113		5.5' to Lot 113 WHC	54.5' to SMH-693
114		5.5' to Lot 114 WHC	9.5' to Lot 115 WHC
115		3.5' to Lot 115 WHC	13' to Lot 116 WHC
116		6' to Lot 116 WHC	18' to Lot 117 SHC
117		18' to Lot 116 SHC	8' to Lot 117 WHC
118		11.5' to Lot 117 WHC	4' to Lot 118 WHC
119		11' to Lot 118 WHC	5.5' to Lot 119 WHC
120		11.5' to Lot 119 WHC	5.8' to 8" Valve

CONTRACT NO. 14-4873-0
ELLICOTT CROSSING
PART TWO: PHASE II
LOTS 56 THRU 140 &
OPEN SPACE LOTS 141 THRU 144
WATER & SEWER MAIN EXTENSIONS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND

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. 12043 EXPIRATION DATE IS 7/16/14.



FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTENNIAL SQUARE OFFICE PARK - 10272 BALDWIN NATIONAL FEE
ELICOTT CITY, MARYLAND 21042
(410) 461-2999

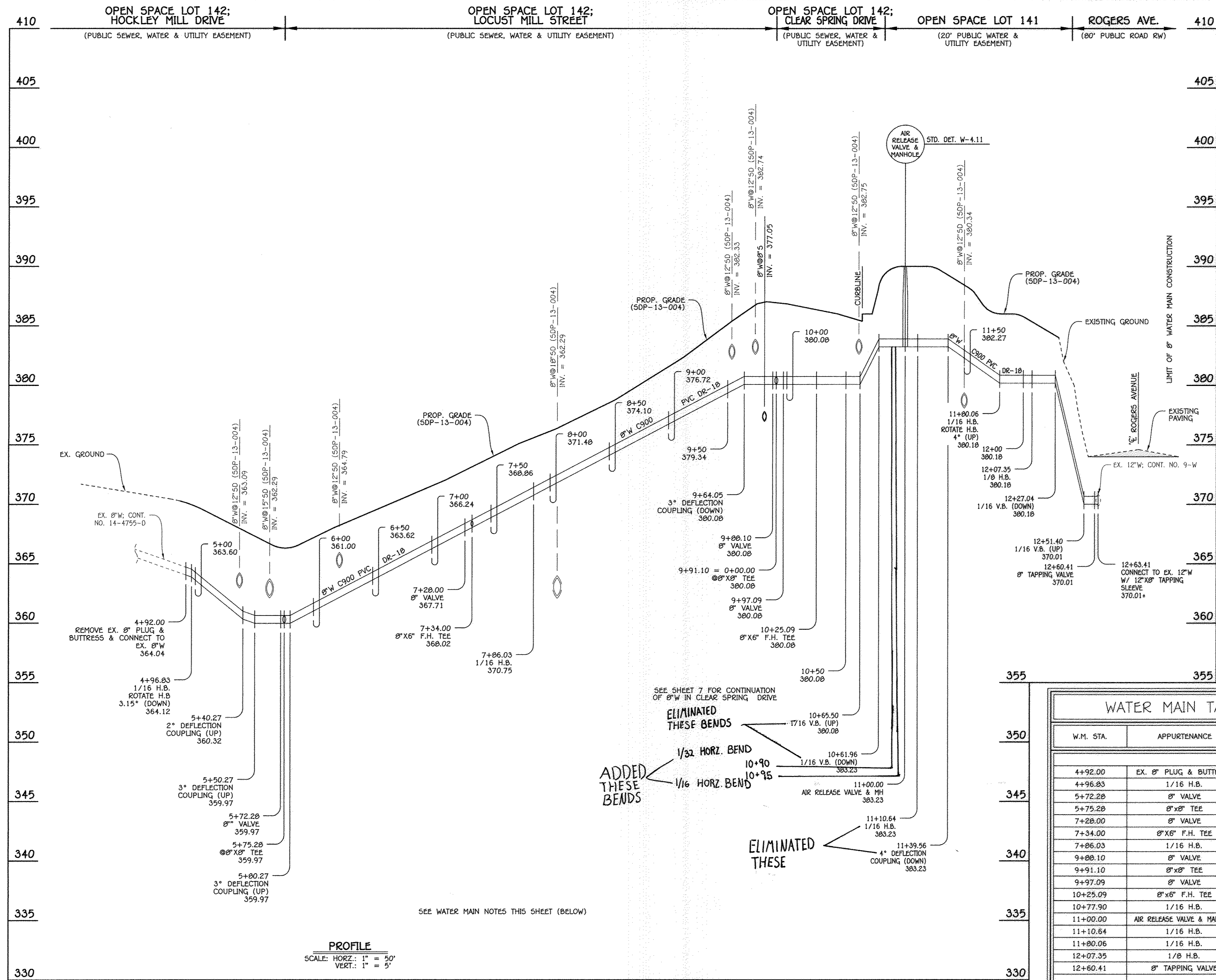
DESIGNED BY: B.C.R.
DRAWN BY: B.C.R.
CHECKED BY: P.W.K.
DATE: 4/17/15
BY: KCI
NO. 1
REVISION
DATE: AUGUST, 2014

SEWER MAIN EXTENSIONS
PROFILE, CHARTS & TABLES

600' SCALE MAP NO. 24/25 BLOCK NO. 6/1
F.C.C. WORK ORDER NO. 10040
FILE NAME: WATER & SEWER MAIN EXTENSION PROFILES

ELLICOTT CROSSING
PART TWO: PHASE II
LOTS 56 THRU 140 & OPEN SPACE
LOTS 141 THRU 144
WATER & SEWER MAIN EXTENSIONS
CONTRACT NO. 14-4873-0
SECOND ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
SHEET 5 OF 7



8" WATER MAIN: HOCKLEY MILL DRIVE TO ROGERS AVENUE

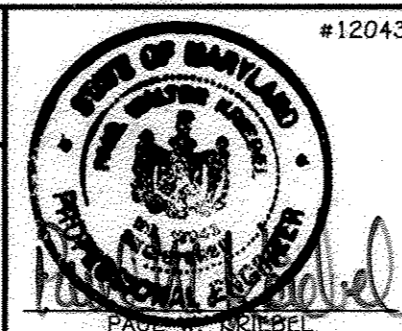
- WATER MAIN NOTES:**
1. ALL WATER MAINS SHALL BE AWWA C900 PVC PIPE.
 2. ALL PIPE BEDDING, TRACER WIRE, LOCATING TAPE AND OTHER APPURTENANCES SHALL BE IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOLUME II - WATER AND SEWER STANDARDS FOR AWWA C900 PVC WATER PIPE INSTALLATION.
 3. DEFLECTION COUPLINGS SHALL BE CERTAIN-TEED PVC HIGH DEFLECTION COUPLINGS.
 4. ALL WATER HOUSE CONNECTIONS AND TAPS SHALL BE PERFORMED USING A SADDLE.

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND

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. 12043 EXPIRATION DATE IS 7/16/14.

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CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTRAL SQUARE OFFICE PARK - 10272 BALDORNE NATIONAL PIKE
ELICOTT CITY, MARYLAND 21042
(410) 461-2999



DESIGNED BY: []
B.C.R.
DRAWN BY: []
B.C.R.
CHECKED BY: []
P.W.K.
DATE: 4/11/15
BY: []
NO. []
REVISION []

**WATER MAIN EXTENSION
PROFILE & CHART**

600' SCALE MAP NO. 24/25 BLOCK NO. 6/1
F.C.C. WORK ORDER NO. 10040
FILE NAME: WATER & SEWER MAIN EXTENSION PROFILES

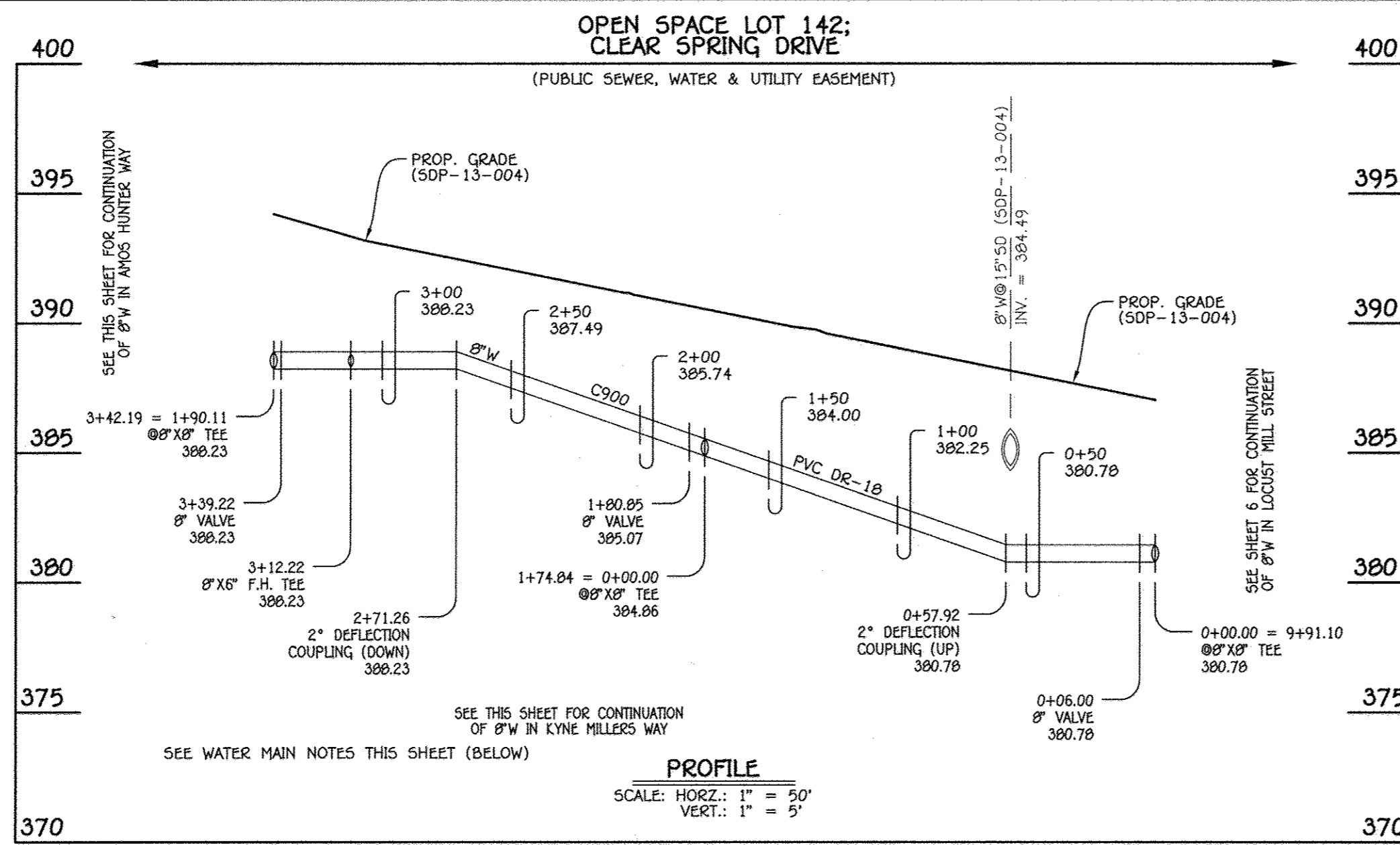
ELICOTT CROSSING
PART TWO: PHASE II
LOTS 56 THRU 140 & OPEN SPACE
LOTS 141 THRU 144
WATER & SEWER MAIN EXTENSIONS
CONTRACT NO. 14-4873-D
SECOND ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

SCALE
AS
SHOWN
SHEET
6 OF 7

CONTRACT NO. 14-4873-D
ELICOTT CROSSING
PART TWO: PHASE II
LOTS 56 THRU 140 &
OPEN SPACE LOTS 141 THRU 144
WATER & SEWER MAIN EXTENSIONS
HOWARD COUNTY, MARYLAND

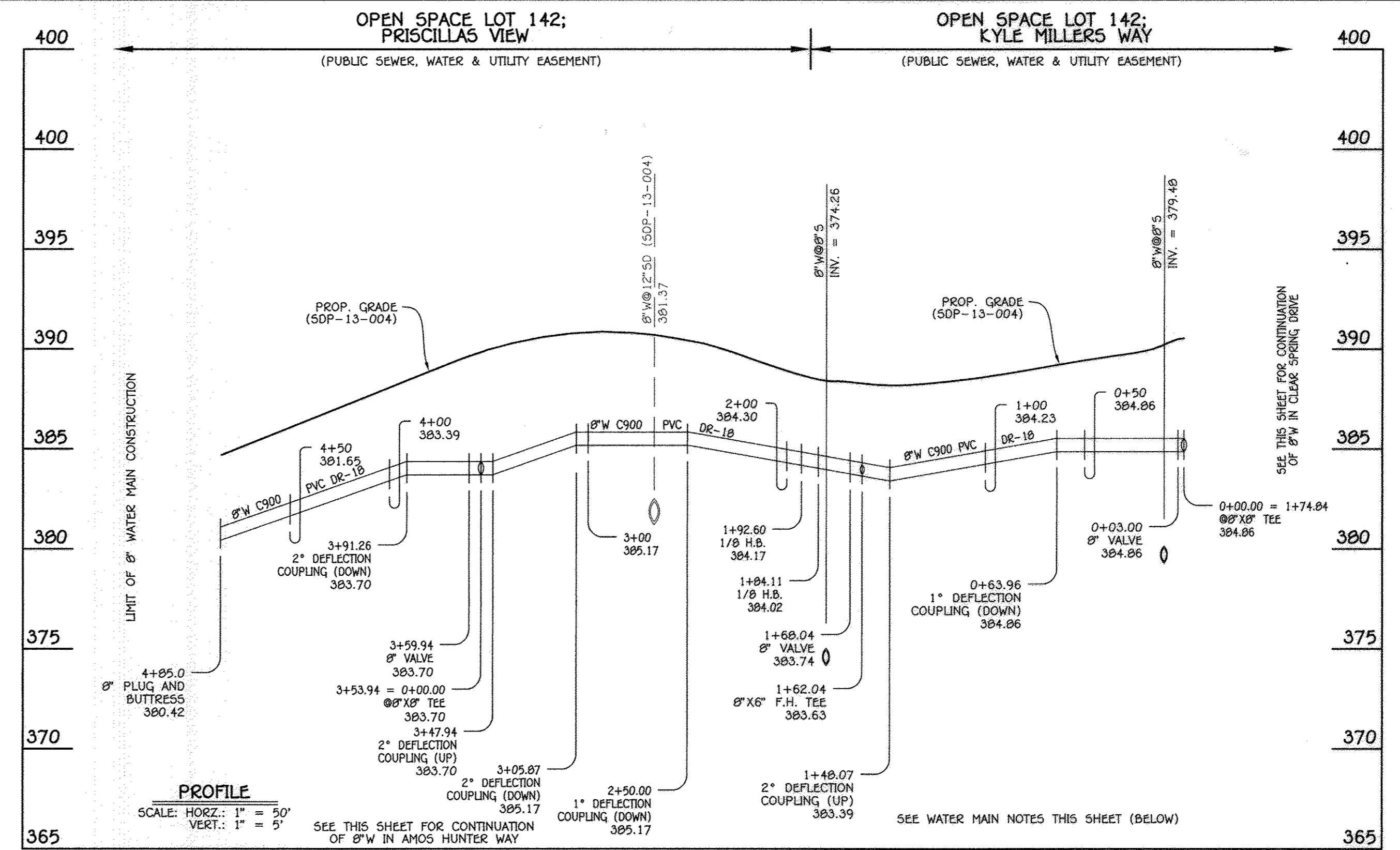
CHIEF, BUREAU OF UTILITIES
DATE: 8/8/14

CHIEF, DEVELOPMENT ENGINEERING DIVISION
DATE: 8-20-14



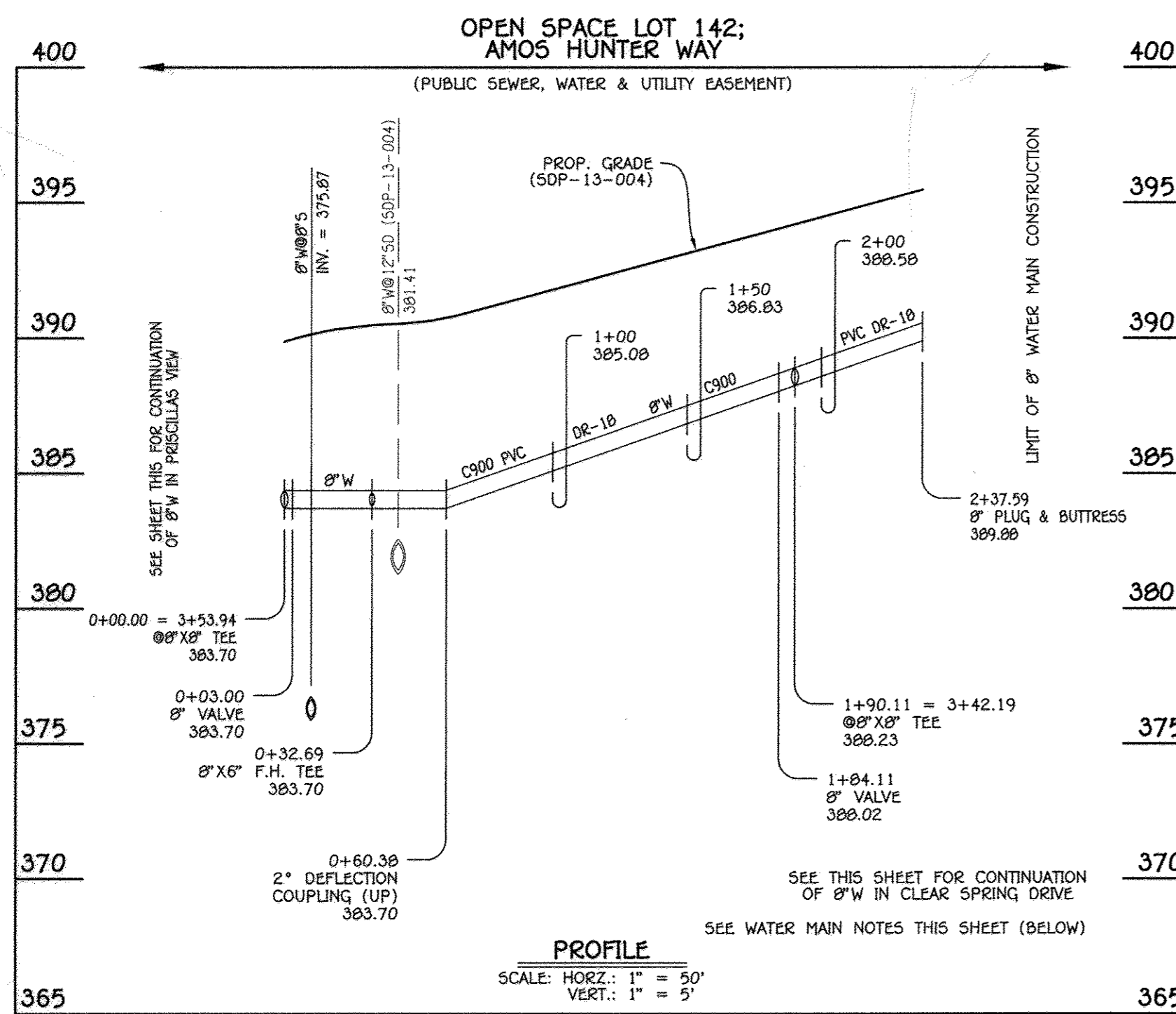
8" WATER MAIN: CLEAR SPRING DRIVE

WATER MAIN TABULATION CHART			
W.M. STA.	APPURTENANCE	NORTHING	EASTING
8" WATER MAIN: CLEAR SPRING DRIVE			
0+00.00	8" X 8" TEE	587083.73	1366448.02
0+06.00	8" VALVE	587084.27	1366442.05
1+74.84	8" X 8" TEE	587099.49	1366273.89
1+80.85	8" VALVE	587100.03	1366267.91
3+12.22	8" X 6" F.H. TEE	587111.90	1366137.07
3+39.22	8" VALVE	587114.30	1366110.18
3+42.19	8" X 8" TEE	587114.57	1366107.23



8" WATER MAIN: KYNE MILLERS WAY & PRISCILLAS VIEW

WATER MAIN TABULATION CHART			
W.M. STA.	APPURTENANCE	NORTHING	EASTING
8" WATER MAIN: KYNE MILLERS DRIVE & PRISCILLAS VIEW			
0+00.00	8" X 8" TEE	587099.49	1366273.89
0+03.00	8" VALVE	587102.48	1366274.15
1+82.04	8" X 6" F.H. TEE	587260.87	1366288.50
1+88.04	8" VALVE	587266.85	1366289.03
1+84.11	1/8" HB	587282.85	1366290.48
1+92.60	1/8" HB	587289.37	1366285.05
3+53.94	8" X 8" TEE	587303.91	1366124.36
3+59.94	8" VALVE	587304.45	1366118.38
4+85.00	8" PLUG & BUTTRESS	587315.72	1365993.83



8" WATER MAIN: AMOS HUNTER WAY

WATER MAIN TABULATION CHART			
W.M. STA.	APPURTENANCE	NORTHING	EASTING
8" WATER MAIN: AMOS HUNTER WAY			
0+00.00	8" X 8" TEE	587303.91	1366124.36
0+03.00	8" VALVE	587300.92	1366124.09
0+32.69	8" X 6" F.H. TEE	587271.35	1366121.42
1+84.11	8" VALVE	587120.55	1366107.73
1+90.11	8" X 8" TEE	587114.57	1366107.22
2+37.59	8" PLUG & BUTTRESS	587067.29	1366102.95

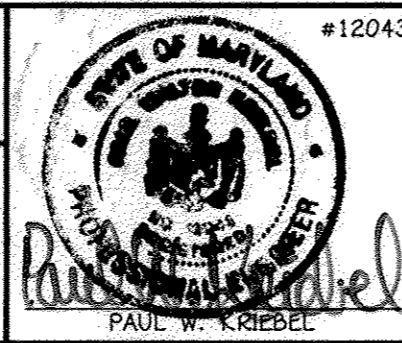
- WATER MAIN NOTES:**
1. ALL WATER MAINS SHALL BE AWWA C900 PVC PIPE.
 2. ALL PIPE BEDDING, TRACER WIRE, LOCATING TAPE AND OTHER APPURTENANCES SHALL BE IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOLUME II - WATER AND SEWER STANDARDS FOR AWWA C900 PVC WATER PIPE INSTALLATION.
 3. DEFLECTION COUPLINGS SHALL BE CERTAIN-TEED PVC HIGH DEFLECTION COUPLINGS.
 4. ALL WATER HOUSE CONNECTIONS AND TAPS SHALL BE PERFORMED USING A SADDLE.

CONTRACT NO. 14-4873-0
 ELLICOTT CROSSING
 PART TWO: PHASE II
 LOTS 56 THRU 140 &
 OPEN SPACE LOTS 141 THRU 144
 WATER & SEWER MAIN EXTENSIONS
 HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING AND ZONING
 HOWARD COUNTY, MARYLAND

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. 12043 EXPIRATION DATE IS 7/16/14.



DESIGNED BY:	B.C.R.
DRAWN BY:	B.C.R.
CHECKED BY:	P.W.K.
DATE:	AUGUST, 2014
BY NO.	
REVISION	
DATE	

**WATER MAIN EXTENSIONS
 PROFILES & CHARTS**

600' SCALE MAP NO. 24/25 BLOCK NO. 6/1
 F.C.C. WORK ORDER NO. 10040
 FILE NAME: WATER & SEWER MAIN EXTENSION PROFILES

ELLICOTT CROSSING
 PART TWO: PHASE II
 LOTS 56 THRU 140 & OPEN SPACE
 LOTS 141 THRU 144
 WATER & SEWER MAIN EXTENSIONS
 CONTRACT NO. 14-4873-0
 SECOND ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

SCALE
 AS
 SHOWN

SHEET
 7 OF 7

DATE: 8/6/14
 DATE: 8-20-14

DATE: 8-20-14