

QUANTITIES				
ITEM	ESTIMATED	AS-BUILT		
		QUANTITIES	TYPE	SUPPLIER
8" S	1,360 L.F.	1,360 L.F.	SDR-35 PVC	WATER WORKS
4" S	1,337 L.F.	1,337 L.F.	SDR-35 PVC	WATER WORKS
CLEAN-OUTS	78 EACH	78	SDR-35 PVC	WATER WORKS
MANHOLE	6 EACH	6	PRE-CAST	CONTR PRE-CAST
6" W. C900 PVC, DR-18	1,508 L.F.	1,508	C-900 PVC	WATER WORKS
6" W. C900 PVC, DR-18	183 L.F.	183	C-900 PVC	WATER WORKS
1-1/2" WHC	734 L.F.	734	COPPER	WATER WORKS
6" VALVE	12 EACH	12	RESILIENT G/V	WATER WORKS
6" VALVE	3 EACH	3	RESILIENT G/V	WATER WORKS
8" X 6" TEE	5 EACH	5	MJ C 153	WATER WORKS
8" X 6" TEE	3 EACH	3	MJ C 153	WATER WORKS
6" PLUG & BUTTRESS	4 EACH	4	MJ C 153	WATER WORKS
6" PLUG & BUTTRESS	1 EACH	1	MJ C 153	WATER WORKS
8" X 6" REDUCER	1 EACH	1	MJ C 153	WATER WORKS
CONTINUITY TEST STATION	3 EACH	3	CONC	WATER WORKS
TWIN OUTSIDE METER SETTING	34 EACH	34	BRASS BETTER	WATER WORKS
SINGLE OUTSIDE METER SETTING	11 EACH	11	BRASS BETTER	WATER WORKS
FIRE HYDRANT	3 EACH	3	A 423 - 1/4"	WATER WORKS

NAME OF UTILITY CONTRACTOR: **GAINES & CO.**  
SURVEY & DRAFTING DIVISION AS-BUILT DATE:

**BENCHMARK INFORMATION**

B.M.#1 - HOWARD COUNTY CONTROL STATION #38A - HORIZONTAL - (NAD '83)  
(LOCATED ALONG RAILROAD AVENUE, JUST SOUTH OF RYAN AVENUE, APPROX. 22.6' NORTH FROM THE CENTER LINE OF RAILROAD AVENUE.)  
N 555,897.3373  
E 1,390,132.0933  
ELEVATION = 80.783 - VERTICAL - (NAVD '88)

B.M.#2 - HOWARD COUNTY CONTROL STATION #43CB - HORIZONTAL - (NAD '83)  
(LOCATED ALONG THE SOUTHWEST CORNER OF DORSEY ROAD, APPROX. 2.2' OFF THE EDGE OF PAVING, APPROX. 46.7' EAST OF POWER POLE NO. 19)  
N 552,094.2466  
E 1,382,282.4190  
ELEVATION = 144.391 - VERTICAL - (NAVD '88)

**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. Krubel* FOR:  
**PRESTON SCHEFFENACKER PROPERTIES** 05-05-14  
SIGNATURE OF DEVELOPER 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. Krubel* 05/05/14  
SIGNATURE OF ENGINEER DATE

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 308 OF THE HOWARD COUNTY DESIGN MANUAL - VOLUME IV: STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION AND AS SHOWN ON THE SITE DEVELOPMENT PLAN, SDP-14-019.

*Paul W. Krubel* FOR:  
**PRESTON SCHEFFENACKER PROPERTIES** 05-05-14  
SIGNATURE OF DEVELOPER DATE

SDP-14-019

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

APPROVED: *John P. Roberts* 5/15/14  
HOWARD SOIL CONSERVATION DISTRICT DATE

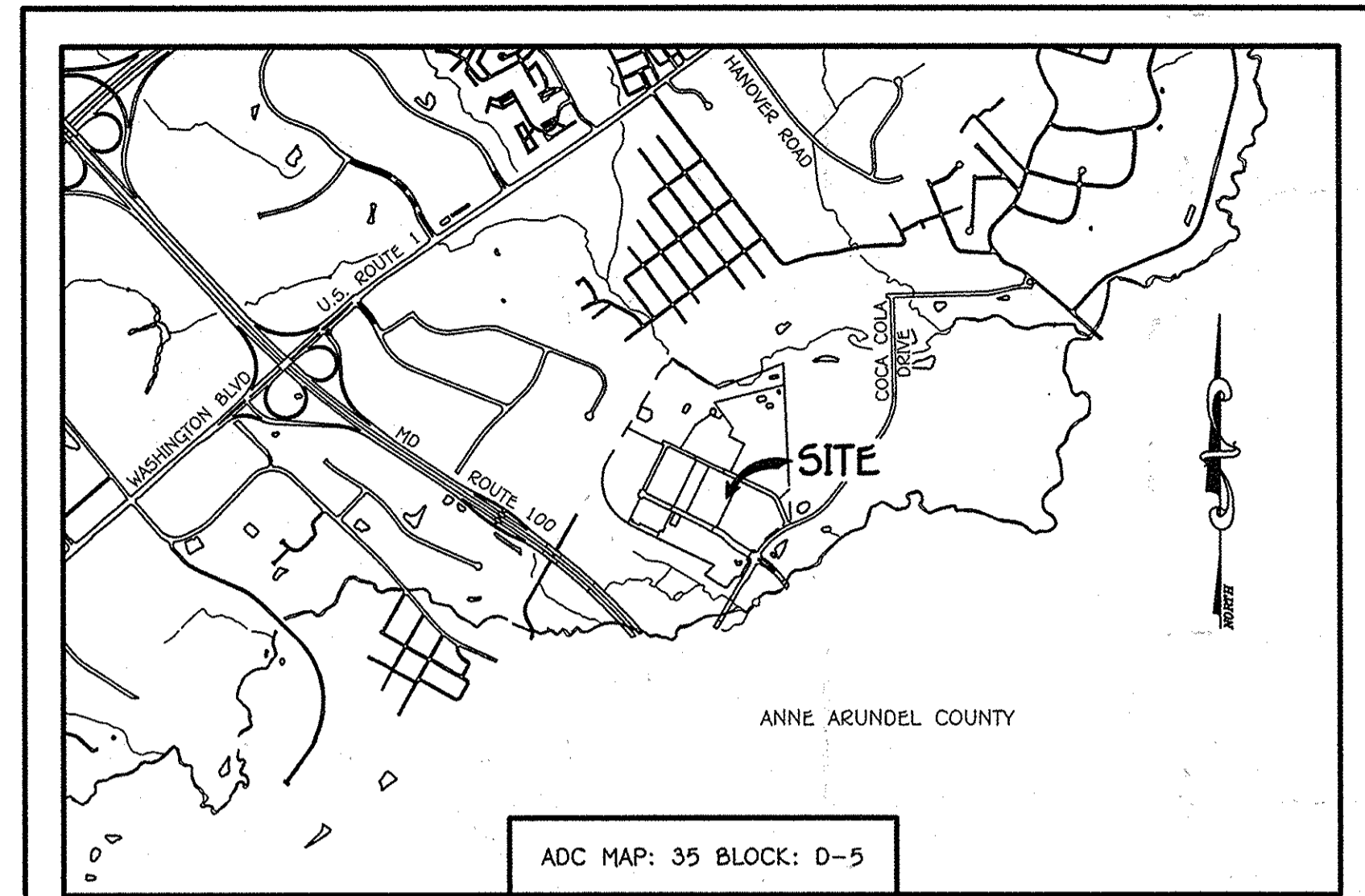
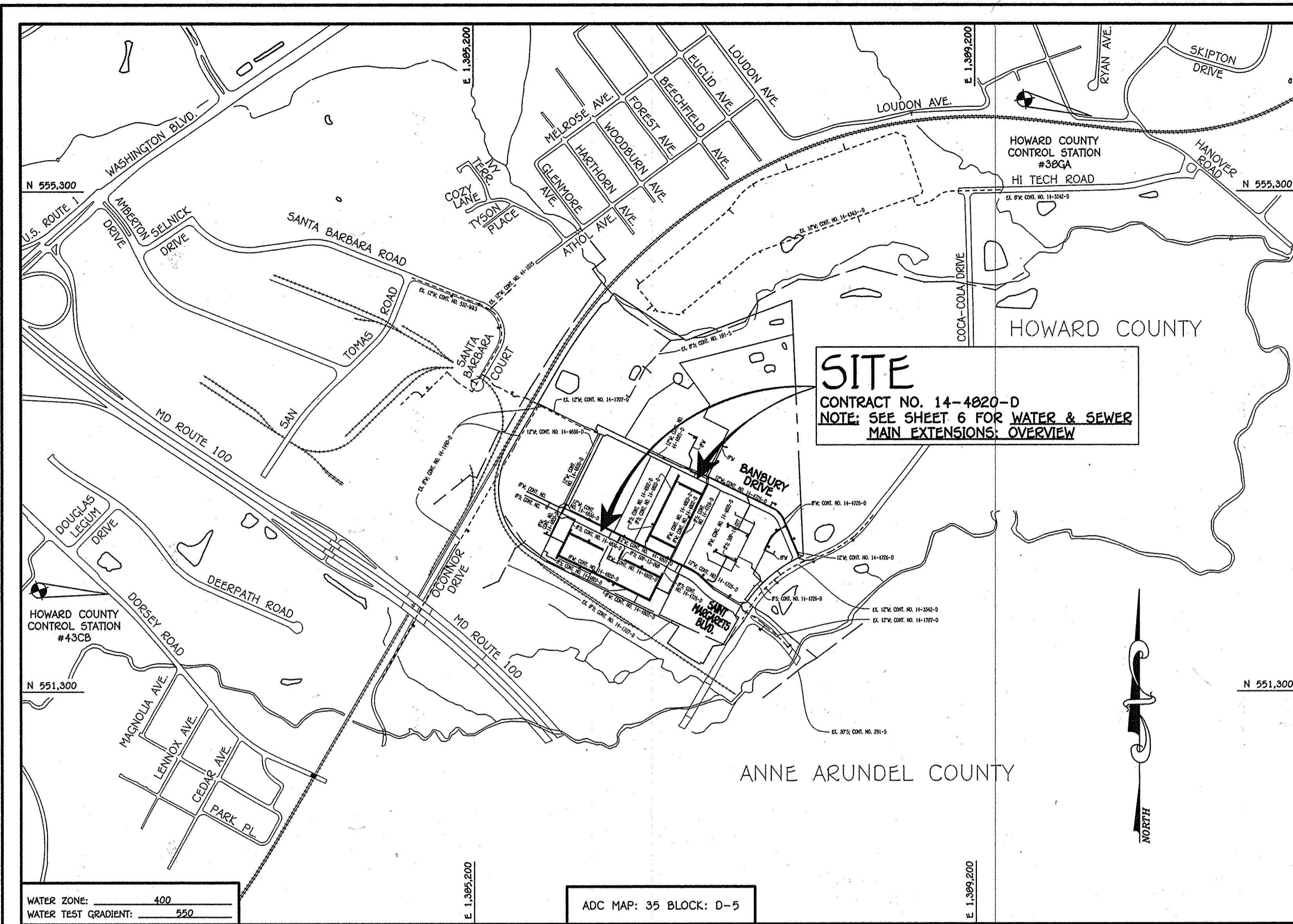
LEGEND	
SYMBOL	DESCRIPTION
---	EX. WATER MAIN
---	EX. SEWER MAIN
o	EX. SEWER MANHOLE
---	EX. WATER, SEWER & UTILITY EASEMENT
o	EX. FIRE HYDRANT
o	EX. VALVE
---	PROP. WATER MAIN
---	PROP. SEWER MAIN
o	PROP. SEWER MANHOLE
---	PROP. SEWER, WATER & UTILITY EASEMENT
---	PROP. WHC
---	PROP. SHC
o	PROP. FIRE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

TYPE OF BUILDING:	RESIDENTIAL TOWNHOUSES
NUMBER OF BUILDABLE LOTS:	96
NUMBER OF OPEN SPACE LOTS:	13
NO. OF SINGLE WATER HOUSE CONNECTIONS:	-11-
NO. OF TWIN WATER HOUSE CONNECTIONS:	-34-
NO. OF SINGLE SEWER HOUSE CONNECTIONS:	-78-
NO. OF TWIN SEWER HOUSE CONNECTIONS:	-0-
SEWER SHED:	PATAPSCO
TREATMENT PLANT:	PATAPSCO WASTEWATER TREATMENT PLANT CITY OF BALTIMORE

**LOCATION MAP**

SCALE: 1" = 600'

PLAN REFERENCE NUMBERS:  
F-14-046 (RECORD PLAT)  
SDP-14-019



**GENERAL NOTES VICINITY MAP**

- PART A: SCALE: 1" = 2000'
- 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 MAY, 2010 BY FISHER, COLLINS & CARTER, 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. 38A & NO. 43CB.
  - ALL VERTICAL CONTROL 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 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 BRACING OF ADDITIONAL POLES, ANY COST INCURRED BY THE OWNER FOR THE BRACING OF THE 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 FITS HAVE BEEN MADE ON EXISTING UTILITIES, THEY ARE NOTED BY THE SYMBOL 'S' AT THE LOCATIONS OF THE TEST FITS. A NOTE OR NOTES CONTAINING THE RESULTS OF THE TEST FIT OR FITS IS INCLUDED ON THE DRAWINGS. EXISTING UTILITIES IN THE VICINITY OF THE PROPOSED WORK FOR WHICH TEST FITS 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:
    - BGE (CONTRACTOR SERVICES) 1-800-292-1133
    - BGE (EMERGENCY) 410-637-8713
    - BUREAU OF UTILITIES 410-315-4900
    - COLONIAL PIPELINE CO. 410-795-1390
    - MISSISSIPPI VALLEY 1-800-257-7777
    - STATE HIGHWAY ADMINISTRATION 410-531-5625
    - 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.
  - CONTRACTOR SHALL SHIELD AND PROTECT 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 OPEN CUTTING OR BORING/LACING 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(1) OF THE HOWARD COUNTY CODE.
- PART B: WATER MAIN GENERAL NOTES
- ALL WATER MAINS SHALL BE AWWA C900 PVC, DR-18.
  - TOPS OF ALL WATER MAINS SHALL HAVE A MINIMUM OF 3'-6" OF COVER UNLESS OTHERWISE NOTED.
  - VALVES ADJACENT TO TEE SHALL BE STRAPPED TO TEE.
  - 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 BUY 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 1009 OF THE STANDARD SPECIFICATIONS.
  - THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY, AT (410-313-7450) AT LEAST FIVE WORKING DAYS BEFORE OPEN CUTTING OR BORING/LACING OF ANY COUNTY ROAD FOR LAYING WATER/SEWER MAINS OR HOUSE CONNECTIONS.
  - 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 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 MATERIAL, FOR USE. THE TEST RECORDS SHALL BE FOR THE PIPE TO BE INSTALLED UNDER THIS CONTRACT. ALL 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 ON 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 INSPECTION 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 HOPE 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 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, TAKING CARE NOT TO USE CONNECTION EQUIPMENT DIRECTLY OVER THE FITTING.
  - PVC HIGH DEFLECTION COUPLINGS SHALL BE LIMITED TO A TOTAL OF 3-DEGREES (1 1/2-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 SPIGOT, RATED FOR A MINIMUM 225 PSI, DR-18 MEETING THE REQUIREMENTS OF AWWA C900 AND SHALL BE MULTI FITTINGS (PFX) BLUE ROUTE 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 AWWA C900 PVC PIPELINES, THE CONTRACTOR SHALL INSERT DEVICES FOR THE PREVENTION OF OVER-INSERTION OF THE PVC PIPE SPIGOTS OR PLAIN 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 SIZES ROOM CHECK-STOP AS MANUFACTURED BY ERMA IRON CO. OR APPROVAL EQUAL.
  - TO ACCOMMODATE A SPRINKLER SYSTEM, ALL RESIDENTIAL DWELLING UNITS SHALL HAVE A 1-1/2" 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 WITH A PLAN AND PROFILE SHALL HAVE WATER-TIGHT FRAME AND COVER, STANDARD DETAIL 05.02. WHERE WATER-TIGHT MANHOLE FRAMES AND COVERS ARE USED, SET TOP OF FRAME 1'-6" ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
  - HOUSES(S) WITH THE SYMBOL "C.H.S." INDICATES THAT CELLAR CANNOT BE SERVED.

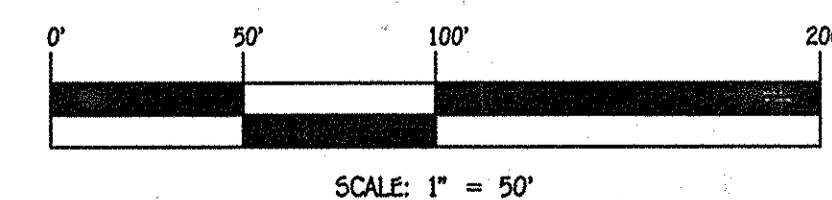
**CONTRACT NO. 14-4820-D**  
**OXFORD SQUARE**  
**LOTS 117 THRU 212**  
**& OPEN SPACE**  
**LOTS 213 THRU 225**  
**WATER & SEWER MAIN EXTENSIONS**  
**HOWARD COUNTY, MARYLAND**  
**AS BUILT** 5/31/16

**OWNER**

KELLOGG-COP, LLC  
c/o DAVID P. SCHEFFENACKER, JR.  
MANAGING MEMBER  
2330 WEST JOPPA ROAD, SUITE 190  
LUTHERVILLE, MARYLAND 21093-4614  
PHONE - 410-296-3800

**DEVELOPER**

PRESTON SCHEFFENACKER PROPERTIES  
2330 WEST JOPPA ROAD, SUITE 190  
LUTHERVILLE, MARYLAND 21093-4614  
PHONE - 410-296-3800



CONTRACT NO. 14-4820-D  
OXFORD SQUARE  
LOTS 117 THRU 212 & OPEN SPACE  
LOTS 213 THRU 225  
WATER & SEWER MAIN EXTENSIONS  
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

*John P. Roberts* 5/14/14  
CHIEF, BUREAU OF UTILITIES DATE

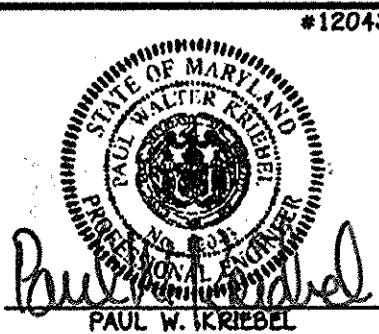
DEPARTMENT OF PLANNING AND ZONING  
HOWARD COUNTY, MARYLAND

*Paul W. Krubel* 5.20.14  
CHIEF, DEVELOPMENT ENGINEERING DIVISION M.G. DATE

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  
CENTRAL SQUARE OFFICE BUILDING - 10772 BALTIMORE NATIONAL FREE  
ELKTON, MD, MARYLAND 21921  
(410) 461 - 2895

*Paul W. Krubel*  
PAUL W. KRUBEL



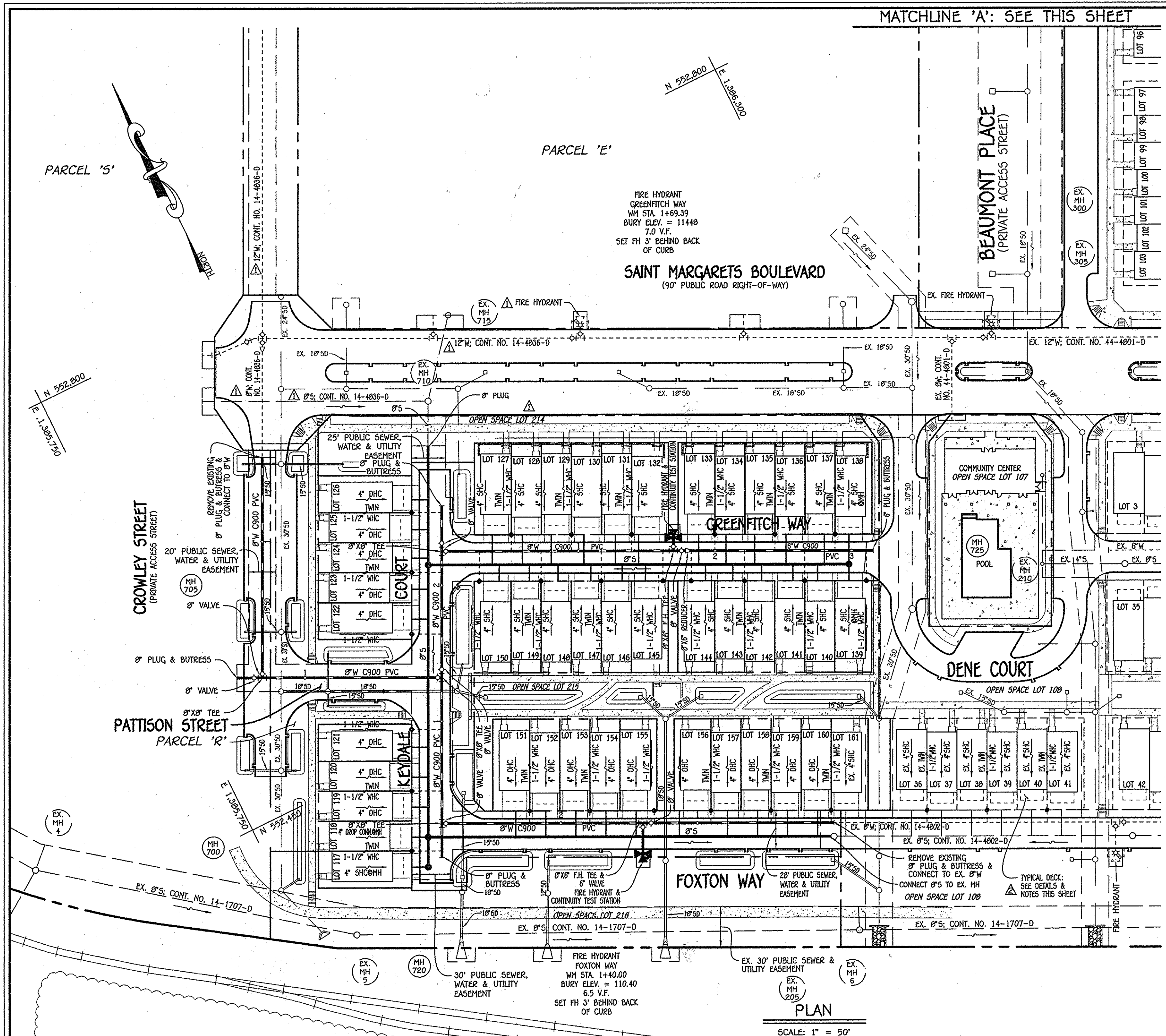
DESIGNED BY:	B.C.R.	DATE:	BY NO.	REVISION
DRAWN BY:	B.C.R.	MAY, 2014		
CHECKED BY:	P.W.K.			

**WATER & SEWER MAIN EXTENSIONS TITLE SHEET**

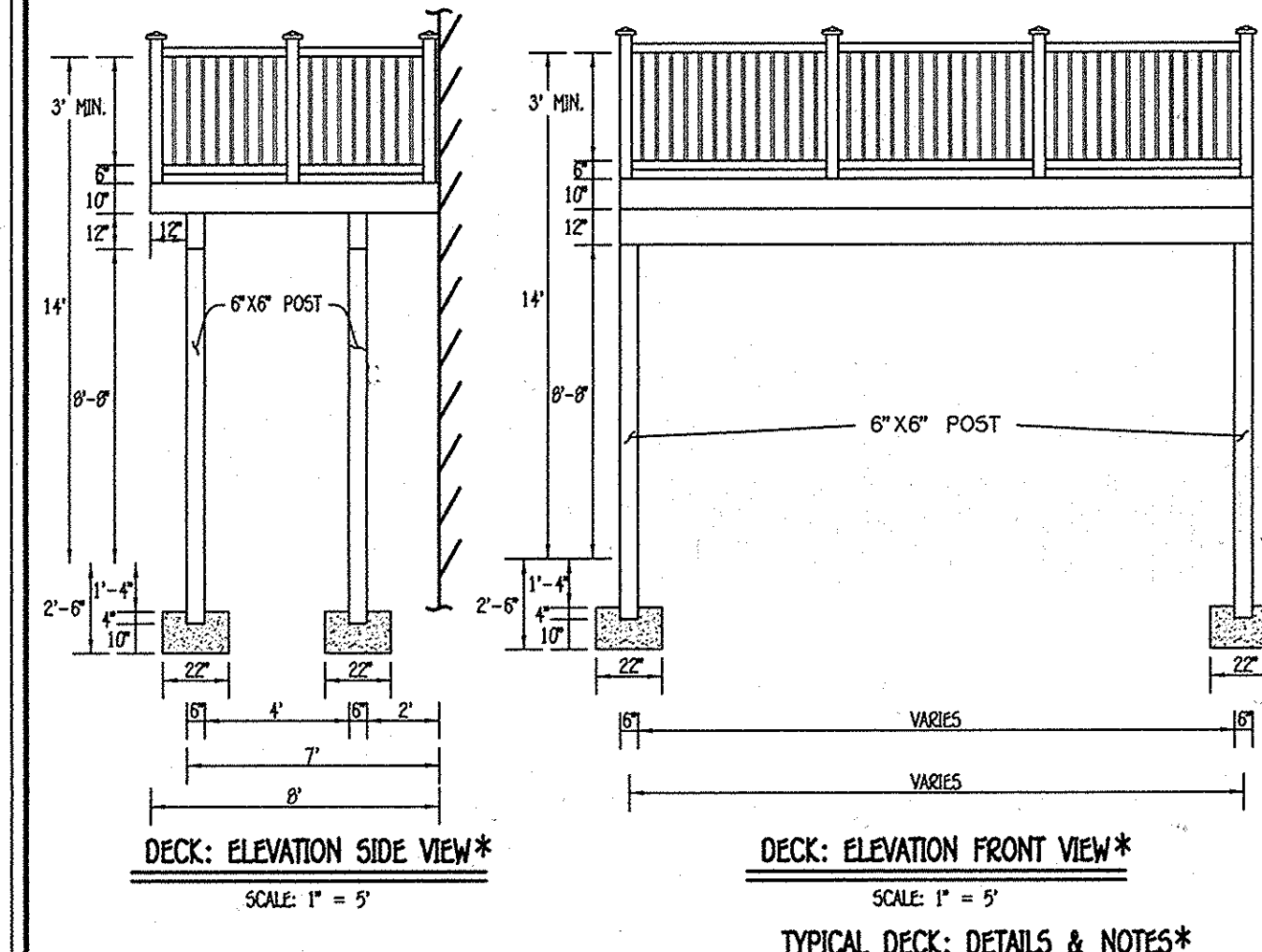
600' SCALE MAP NO. 38 BLOCK NO. 19 & 20  
F.C.C. WORK ORDER NO. 89014-3007  
FILE NAME: WATER & SEWER MAIN EXTENSION PLAN

OXFORD SQUARE  
LOTS 117 THRU 212 & OPEN SPACE  
LOTS 213 THRU 225  
WATER & SEWER MAIN EXTENSIONS  
CONTRACT NO. 14-4820-D  
FIRST ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

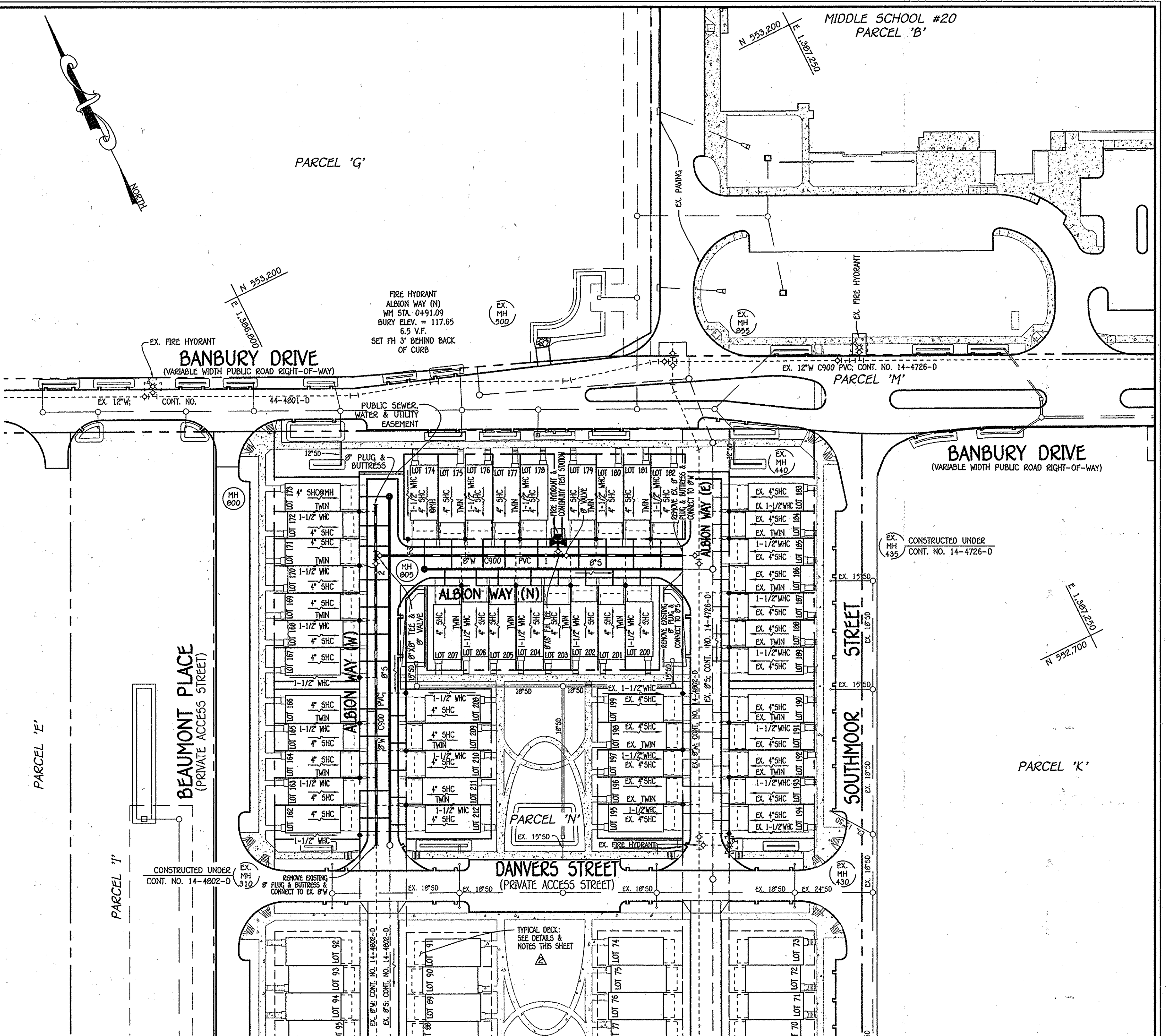
SCALE AS SHOWN  
SHEET 1 OF 6



PLAN  
SCALE: 1" = 50'

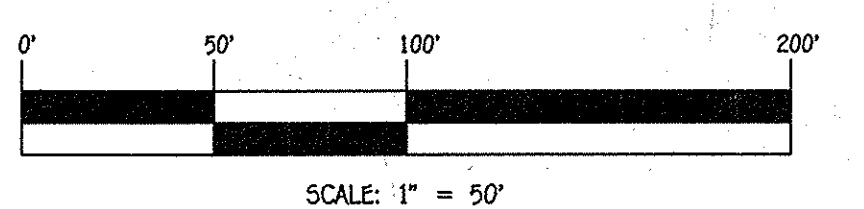


- DECK CONDITIONS / LIMITATIONS:
1. PROPOSED DECK SHALL BE A MAXIMUM SIZE OF 8 FEET DEEP.
  2. THE FOUNDATION FOR EACH DECK POST SHALL BE A MINIMUM OF 5 FEET FROM ANY WATER METER OR SEWER CLEANOUT, OR PUBLIC WATER/SEWER APPURTENANCE.
  3. THE CONSTRUCTION OF ACCESS STEPS FROM TO EXTERIOR GRADE FOR THE DECKS SHALL NOT BE PERMITTED.
  4. REFERENCE WAIVER APPROVAL LETTER DATED APRIL 05, 2016.
  5. THE WAIVER APPROVAL FOR CONT. NO. 14-4820-D (LETTER OF APRIL 5, 2016 WHICH SUPERCEDES THE LETTER OF MARCH 16, 2016) IS LIMITED ONLY TO LOTS 117 THRU 212 AND A SEPARATE WAIVER SHALL BE REQUIRED FOR PROPOSED DECKS ON TOWNHOME GROUPINGS ELSEWHERE WITHIN THE DEVELOPMENT, SHOULD THE PROPOSED DECKS NOT MEET HOWARD COUNTY WATER AND SEWER DESIGN MANUAL VOLUME II REQUIREMENTS.
- \* DIMENSIONS SHOWN ARE FOR A 17 FEET WIDE DECK. DIMENSIONS MAY DIFFER FOR 10 FEET & 20 FEET WIDE DECKS.



PLAN  
SCALE: 1" = 50'

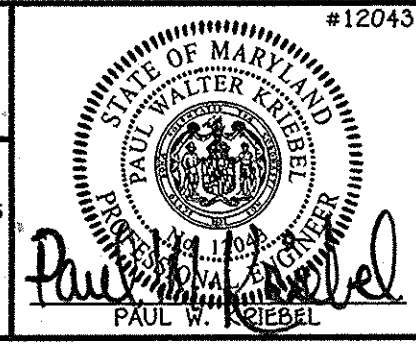
NOTE: THIS ORIGINAL CONSTRUCTION PLAN, SHEET 2 OF 6 SUPERSEDES THE WATER & SEWER MAIN CONSTRUCTION PLAN PREVIOUSLY APPROVED AND SIGNED BY THE DEPARTMENT OF PLANNING AND ZONING ON MAY 20, 2014.



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 7/16/16.



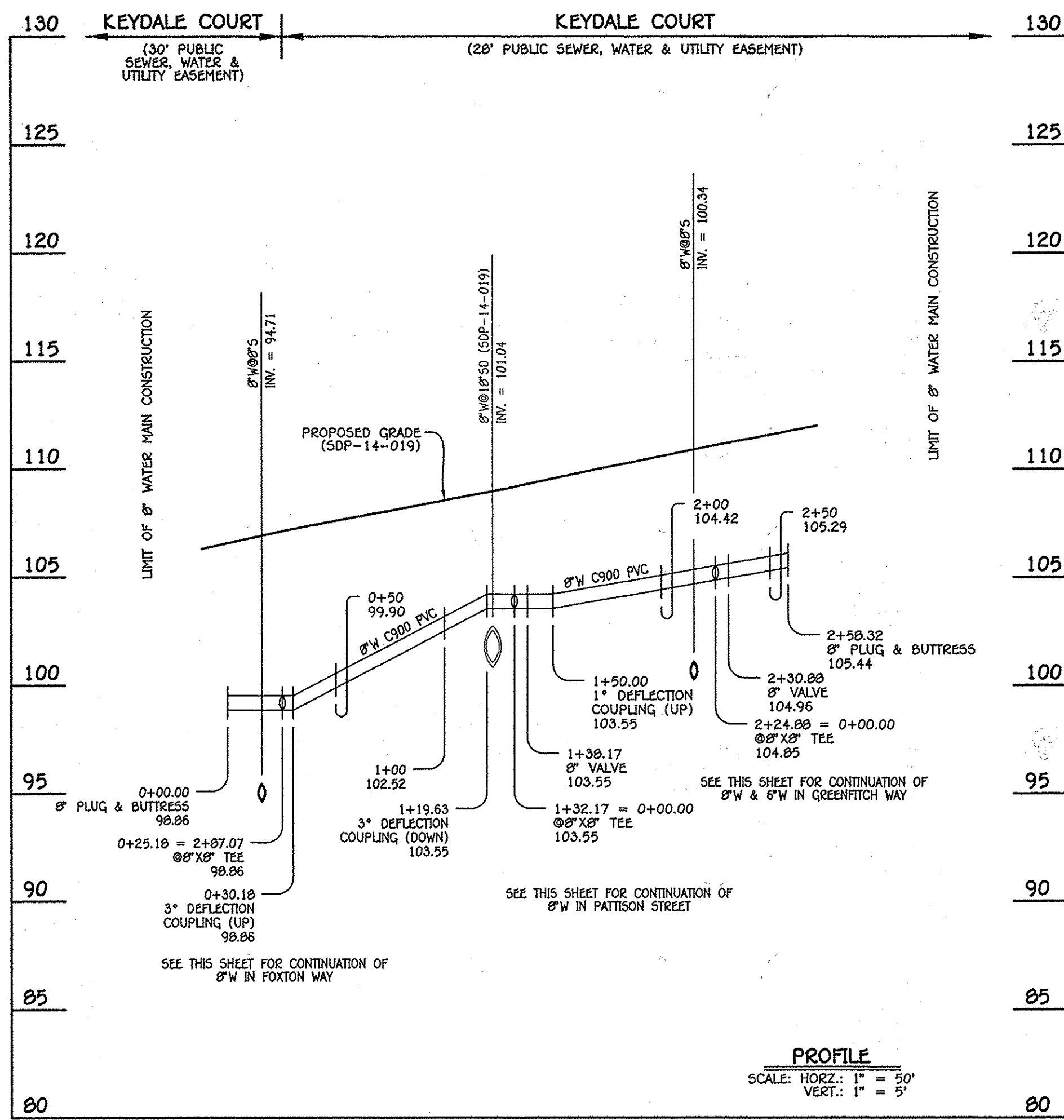
DESIGNED BY:	B.C.R.		
DRAWN BY:	B.C.R.		
CHECKED BY:	FCC	ADD TYPICAL DECKS AT ALL TOWNHOUSE LOTS AND SHOW DETAILS & NOTES	4/1/16
DATE:	FCC	DELETE DENOTATION "EX" FROM PROPOSED FUTURE UTILITIES: CONT. NO. 14-4836-D	12/12/16
MAY, 2016	BY NO.	REVISION	DATE

WATER & SEWER MAIN EXTENSIONS PLAN	
600' SCALE MAP NO. 36	BLOCK NO. 19 & 20
F.C.C. WORK ORDER NO. 09014-3007	
FILE NAME:	WATER & SEWER MAIN EXTENSION PLAN

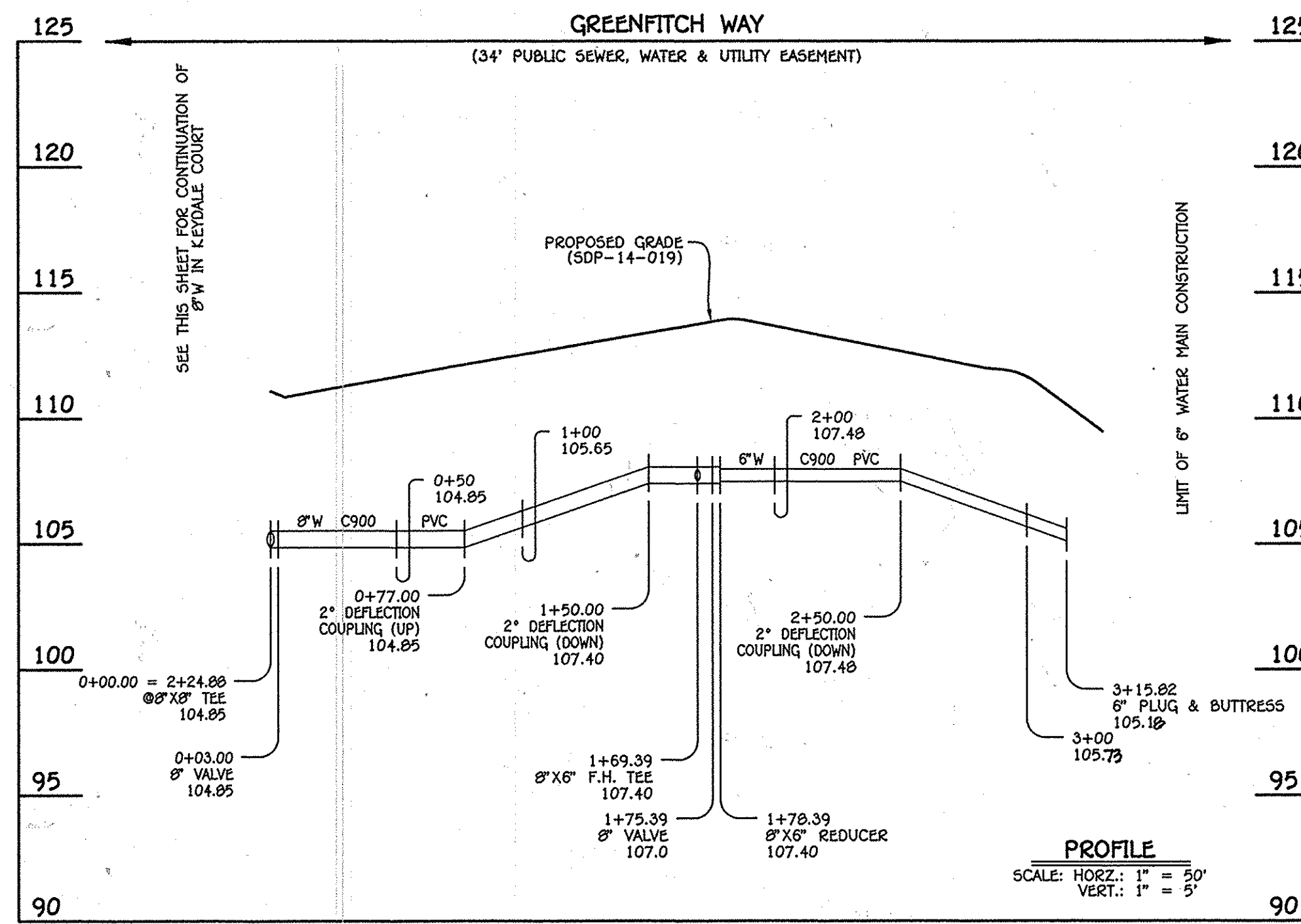
OXFORD SQUARE  
LOTS 117 THRU 212 & OPEN SPACE  
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WATER & SEWER MAIN EXTENSIONS  
CONTRACT NO. 14-4820-D  
FIRST ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN  
SHEET 2 OF 6

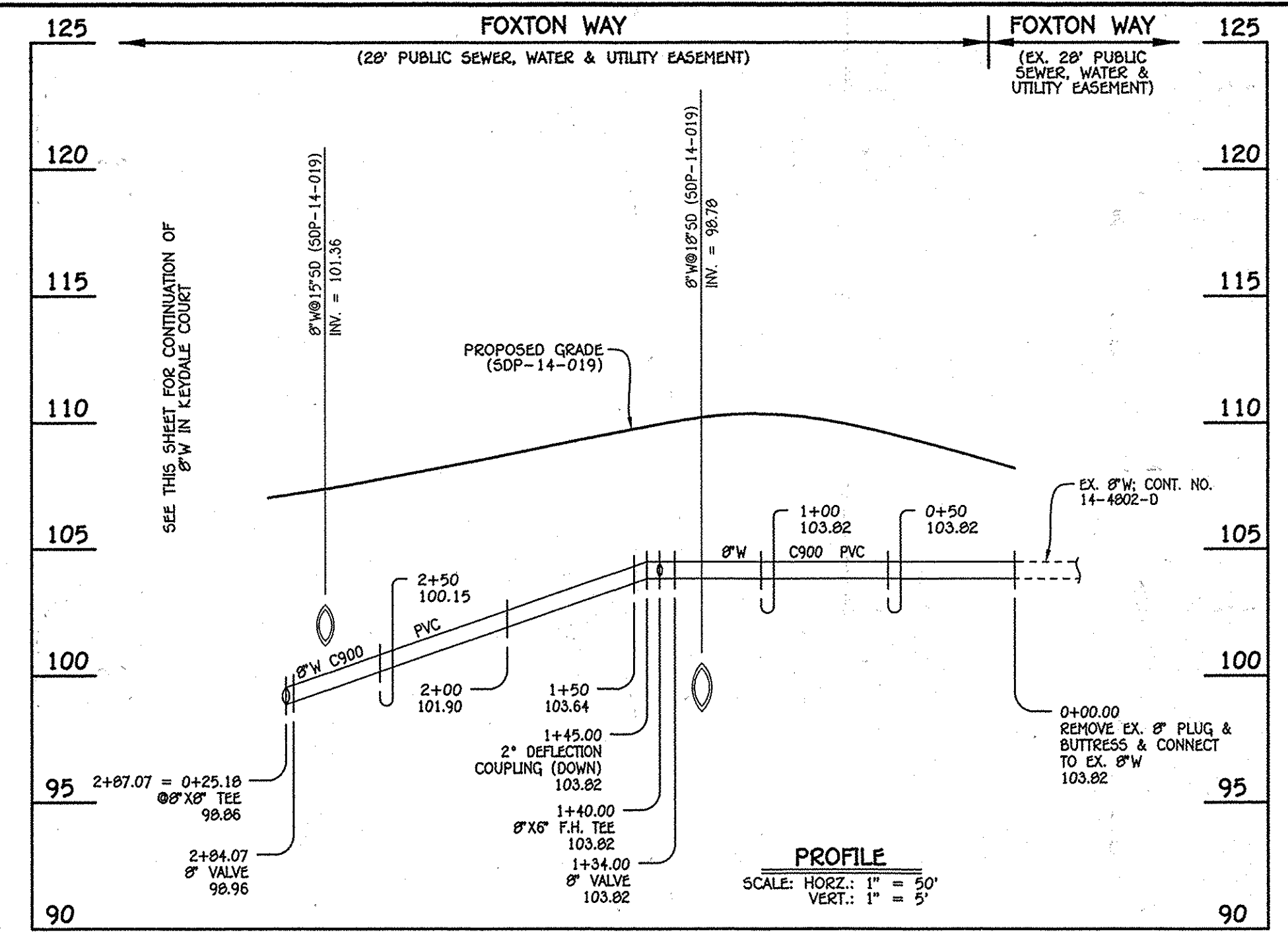
14-4820-D (600'-14-0916)-14-0916(V)Finals&Decline 2 - April, 2016 09014-3007 Water & Sewer Base Plan - Phase 2 - Decline Layout, 5/11/2016 10:03:30 AM  
 14-4820-D (600'-14-0916)-14-0916(V)Finals&Decline 2 - April, 2016 09014-3007 Water & Sewer Base Plan - Phase 2 - Decline Layout, 5/11/2016 10:03:30 AM  
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 14-4820-D (600'-14-0916)-14-0916(V)Finals&Decline 2 - April, 2016 09014-3007 Water & Sewer Base Plan - Phase 2 - Decline Layout, 5/11/2016 10:03:30 AM



8" WATER MAIN: KEYDALE COURT



8" & 6" WATER MAIN: GREENFITCH WAY



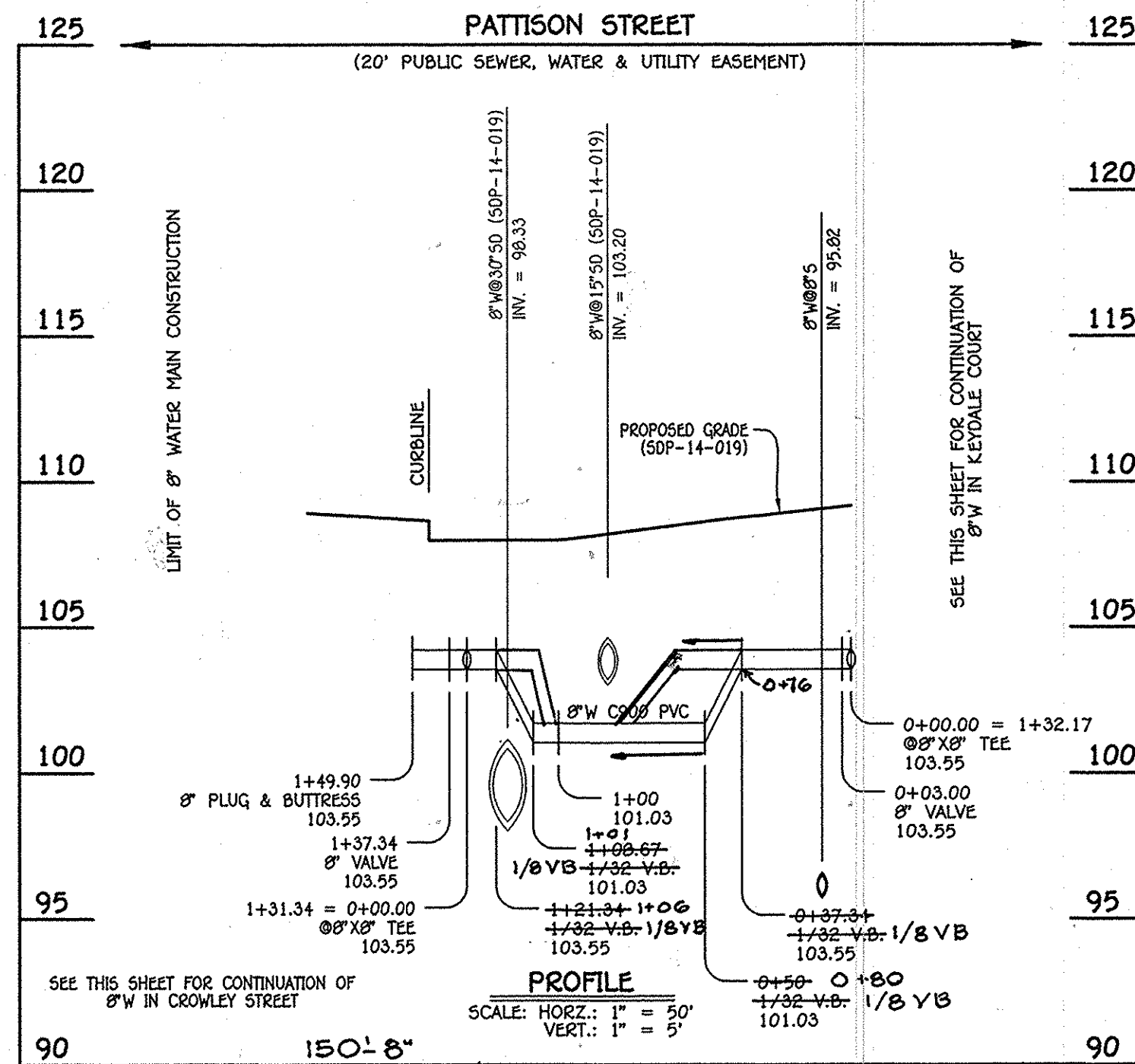
8" WATER MAIN: FOXTON WAY

W.M. STA.	APPURTENANCE	NORTHING	EASTING
8" & 6" WATER MAIN: GREENFITCH WAY			
0+00.00	8" X 8" TEE	552571.85	1385964.50
0+03.00	8" VALVE	552570.53	1385967.20
1+69.39	8" X 6" F.H. TEE	552496.89	1386116.40
1+75.39	8" VALVE	552494.23	1386121.78
1+78.39	8" X 6" REDUCER	552492.90	1386124.47
3+15.82	6" PLUG & BUTTRESS	552432.08	1386247.72

W.M. STA.	APPURTENANCE	NORTHING	EASTING
8" WATER MAIN: FOXTON WAY			
0+00.00	EX. 8" PLUG & BUTTRESS	55265.73	1386133.60
1+34.00	8" VALVE	552325.02	1386013.44
1+40.00	8" X 6" F.H. TEE	552327.68	1386008.06
2+84.07	8" VALVE	552391.42	1385878.86
2+87.07	8" X 8" TEE	552392.75	1385876.17

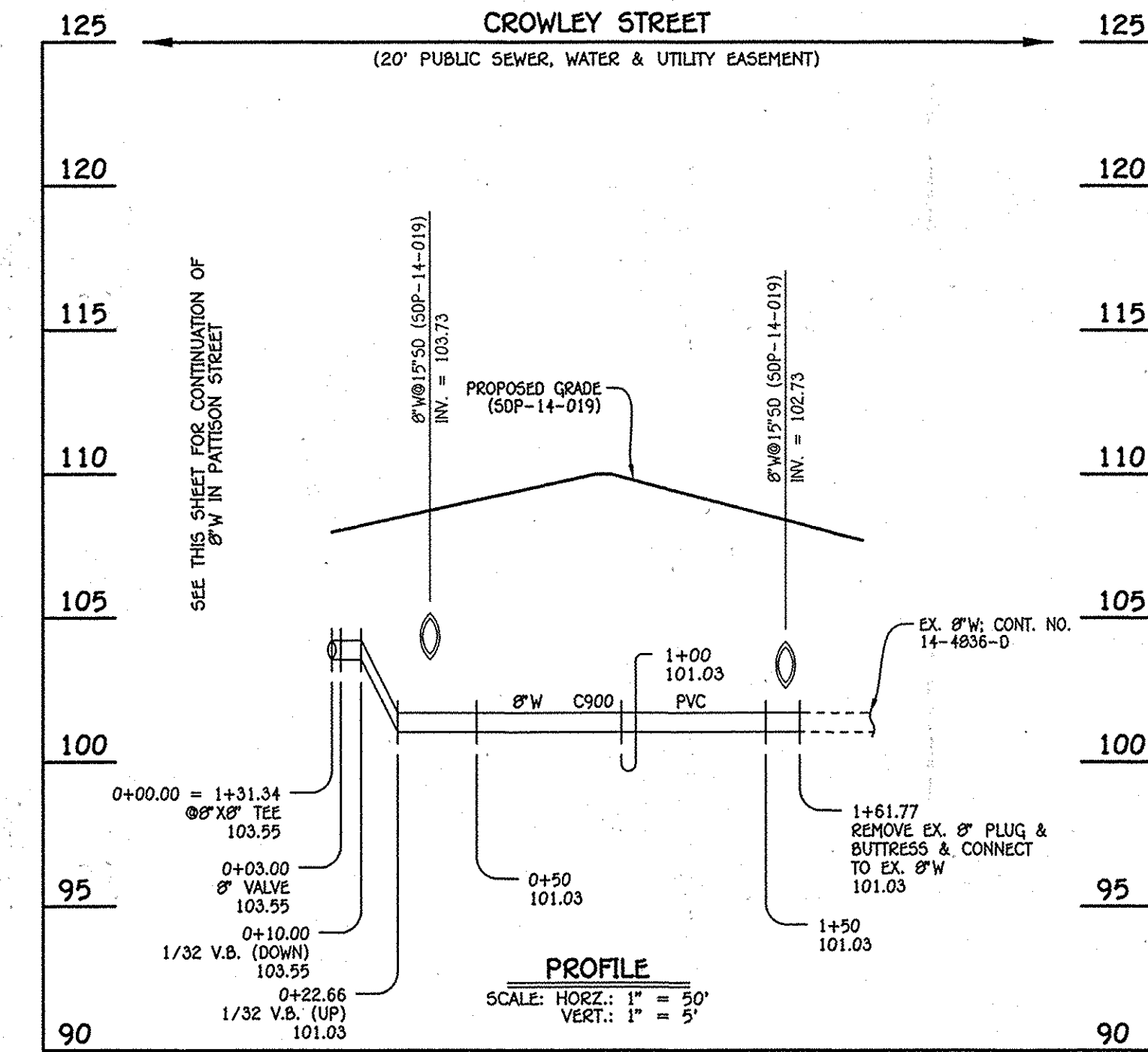
W.M. STA.	APPURTENANCE	NORTHING	EASTING
8" WATER MAIN: KEYDALE COURT			
0+00.00	8" PLUG & BUTTRESS	552370.17	1385865.03
0+25.18	8" X 8" TEE	552392.75	1385876.17
1+32.17	8" X 8" TEE	552488.71	1385923.50
1+38.17	8" VALVE	552494.09	1385926.15
2+24.88	8" X 8" TEE	552571.85	1385964.51
2+30.88	8" VALVE	552577.24	1385967.16
2+58.32	8" PLUG & BUTTRESS	552601.84	1385979.30

W.M. STA.	APPURTENANCE	NORTHING	EASTING
8" WATER MAIN: PATTISON STREET			
0+00.00	8" X 8" TEE	552488.71	1385923.50
0+03.00	8" VALVE	552490.03	1385920.80
1+31.34	8" X 8" TEE	552546.80	1385805.71
1+37.34	8" VALVE	552549.45	1385800.32
1+49.90	8" PLUG & BUTTRESS	552555.02	1385789.05



8" WATER MAIN: PATTISON STREET

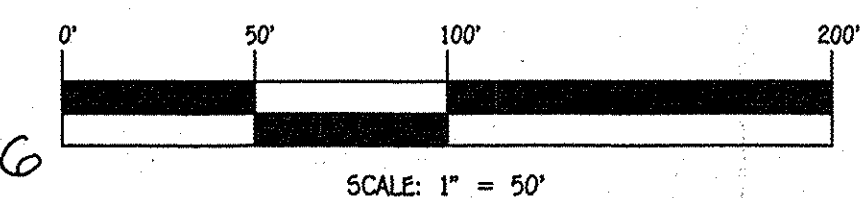
W.M. STA.	APPURTENANCE	NORTHING	EASTING
8" WATER MAIN: CROWLEY STREET			
0+00.00	8" X 8" TEE	552546.80	1385805.71
0+03.00	8" VALVE	552549.49	1385807.03
1+61.77	8" PLUG & BUTTRESS	552891.87	1385877.28



8" WATER MAIN: CROWLEY STREET

- WATER MAIN NOTES:
1. ALL WATER MAINS SHALL BE AWWA C900 PVC PIPE; DR-18.
  2. ALL PIPE BEDDING, TRACER WIRE, LOCATING TAPE AND OTHER APPURTENANCES SHALL BE IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOLUME IV - WATER AND SEWER STANDARDS FOR AWWA C900 PVC WATER PIPE INSTALLATION.
  3. DEFLECTION COUPLINGS SHALL BE CERTAIN-TEE PVC HIGH DEFLECTION COUPLINGS.
  4. ALL WATER HOUSE CONNECTIONS AND TAPS SHALL BE PERFORMED USING A SADDLE.

AS BUILTS 5/31/16



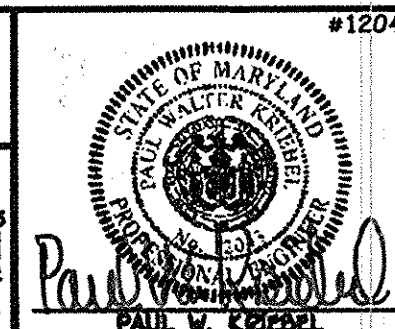
CONTRACT NO. 14-4820-D  
OXFORD SQUARE  
LOTS 117 THRU 212 & OPEN SPACE  
LOTS 213 THRU 225  
WATER & SEWER MAIN EXTENSIONS  
HOWARD COUNTY, MARYLAND

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 7/15/14.

FISHER, COLLINS & CARTER, INC.  
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
CENTENNIAL SQUARE OFFICE PARK - 10272 BALDWIN ROAD, PINE BLUFF, MD 21130  
(410) 461-2899



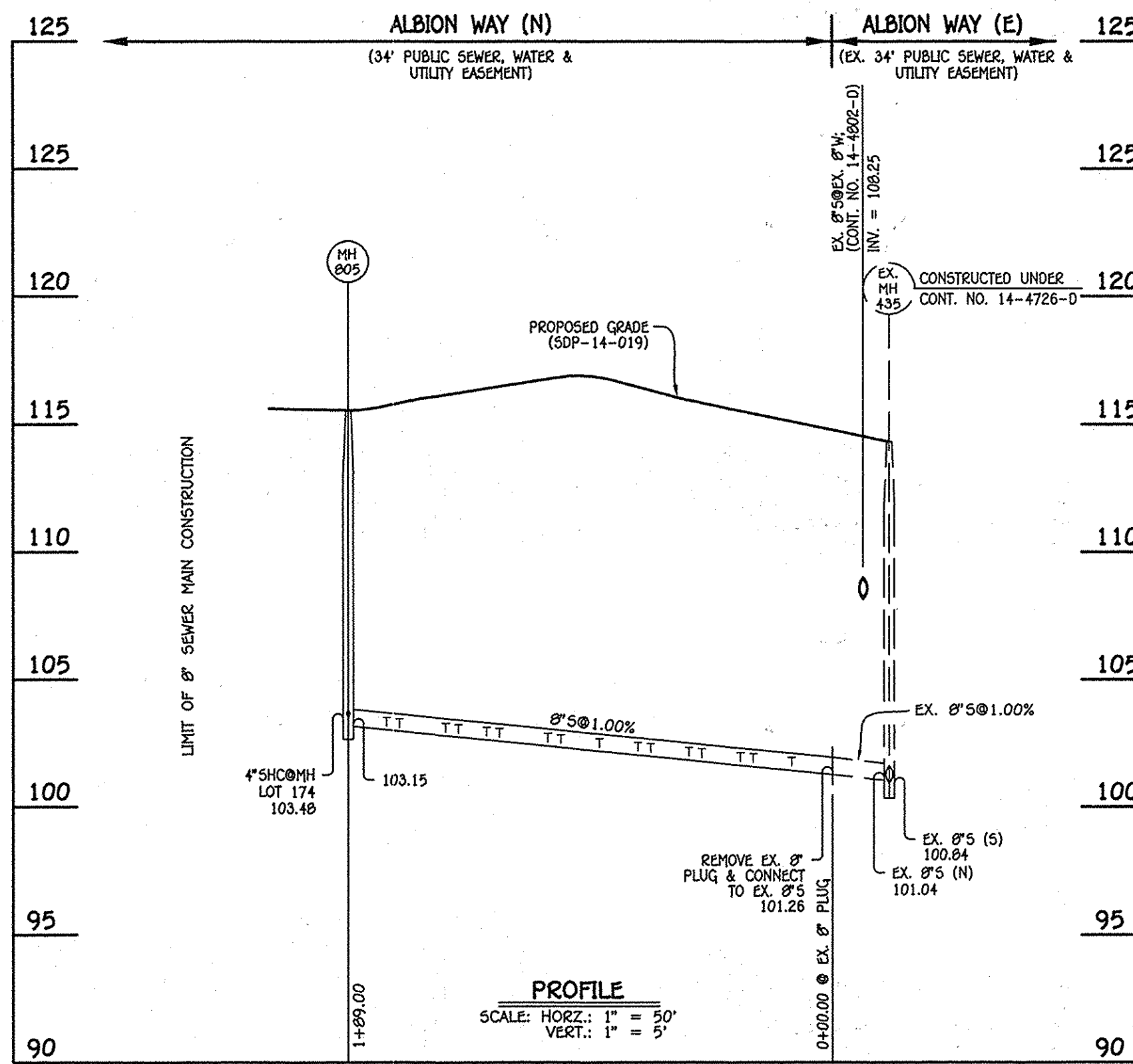
DESIGNED BY:	B.C.R.
DRAWN BY:	B.C.R.
CHECKED BY:	P.W.K.
DATE:	MAY, 2014
BY NO.	
REVISION	
DATE	

WATER MAIN EXTENSIONS  
PROFILES & CHARTS

600' SCALE MAP NO. 38 BLOCK NO. 19 & 20  
F.C.C. WORK ORDER NO. 59014-3007  
FILE NAME: WATER & SEWER MAIN EXTENSION PLAN

OXFORD SQUARE  
LOTS 117 THRU 212 & OPEN SPACE  
LOTS 213 THRU 225  
WATER & SEWER MAIN EXTENSIONS  
CONTRACT NO. 14-4820-D  
FIRST ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN  
SHEET 3 OF 6

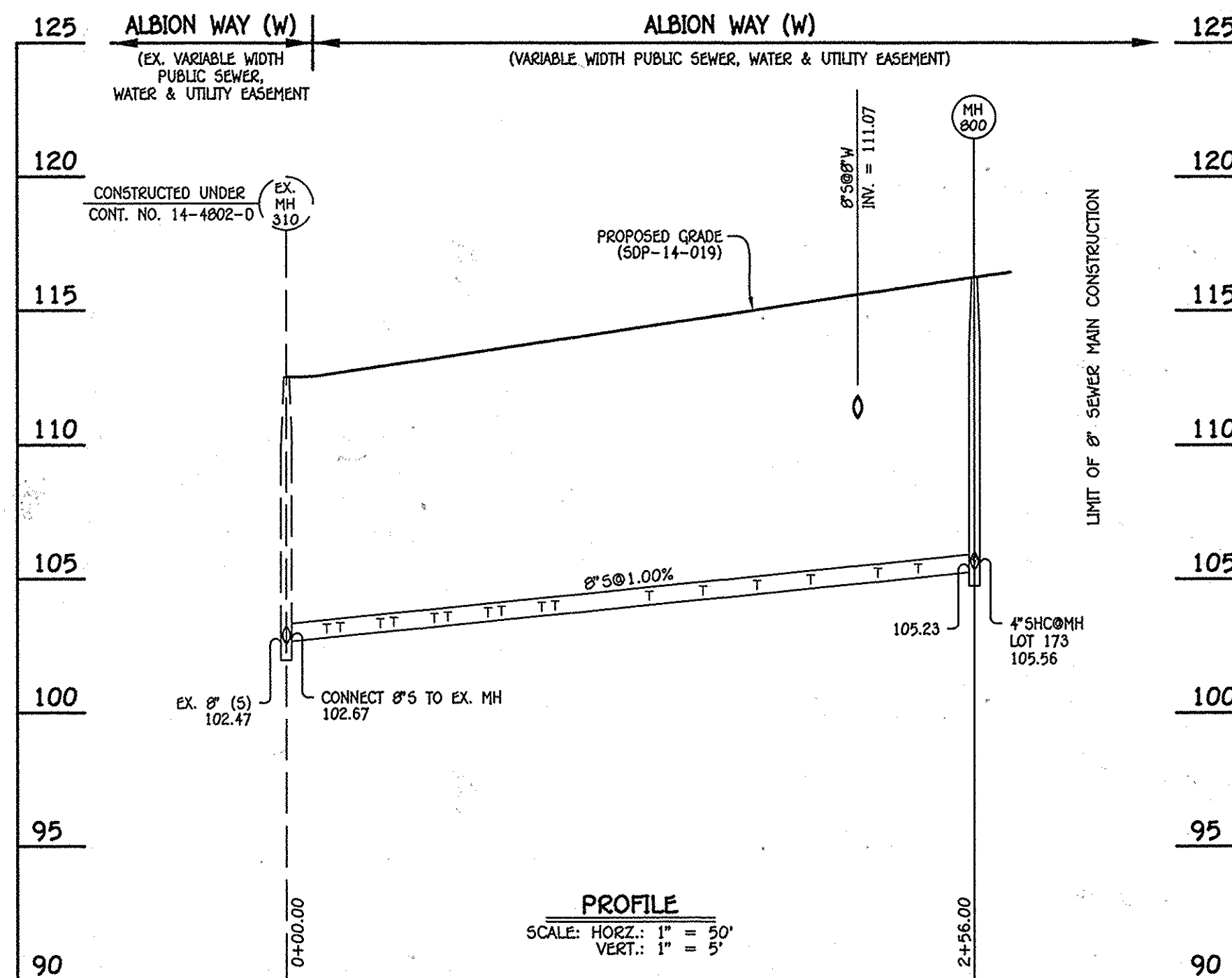


8" SEWER MAIN: ALBION WAY (N); EX. MH 435 - MH 805

NO.	NORTHING	EASTING	RIM ELEVATION
805	552959.87	1386834.12	115.55

NOTE: SET MH RIMS FLUSH W/PROPOSED GRADE.

STATION	LOT	ELEVATION AT MAIN	ELEVATION AT R/W	M.C.E.	SLAB
EX. MH 435 TO MH 805					
0+38 RT.	182	101.59	102.03	105.83	117.21
0+53 LT.	200	101.74	101.98	105.78	116.55
0+58 RT.	181	101.79	102.23	106.03	117.21
0+73 LT.	201	101.94	102.18	105.98	117.22
0+78 RT.	180	101.99	102.43	106.23	117.88
0+93 LT.	202	102.14	102.38	106.18	117.89
0+98 RT.	179	102.19	102.63	106.43	118.55
1+13 LT.	203	102.34	102.58	106.38	118.56
1+28 RT.	178	102.49	102.93	106.73	118.55
1+33 LT.	204	102.54	102.78	106.58	118.56
1+52 RT.	177	102.73	103.17	106.97	118.55
1+57 LT.	205	102.78	103.02	106.82	117.89
1+68 RT.	176	102.89	103.33	107.13	117.88
1+73 LT.	206	102.94	103.18	106.98	117.89
1+91 RT.	175	103.12	103.56	107.36	117.88
1+96 LT.	207	103.17	103.41	107.21	117.22
8"MH 805 RT.	174	103.48	103.92	107.72	117.88

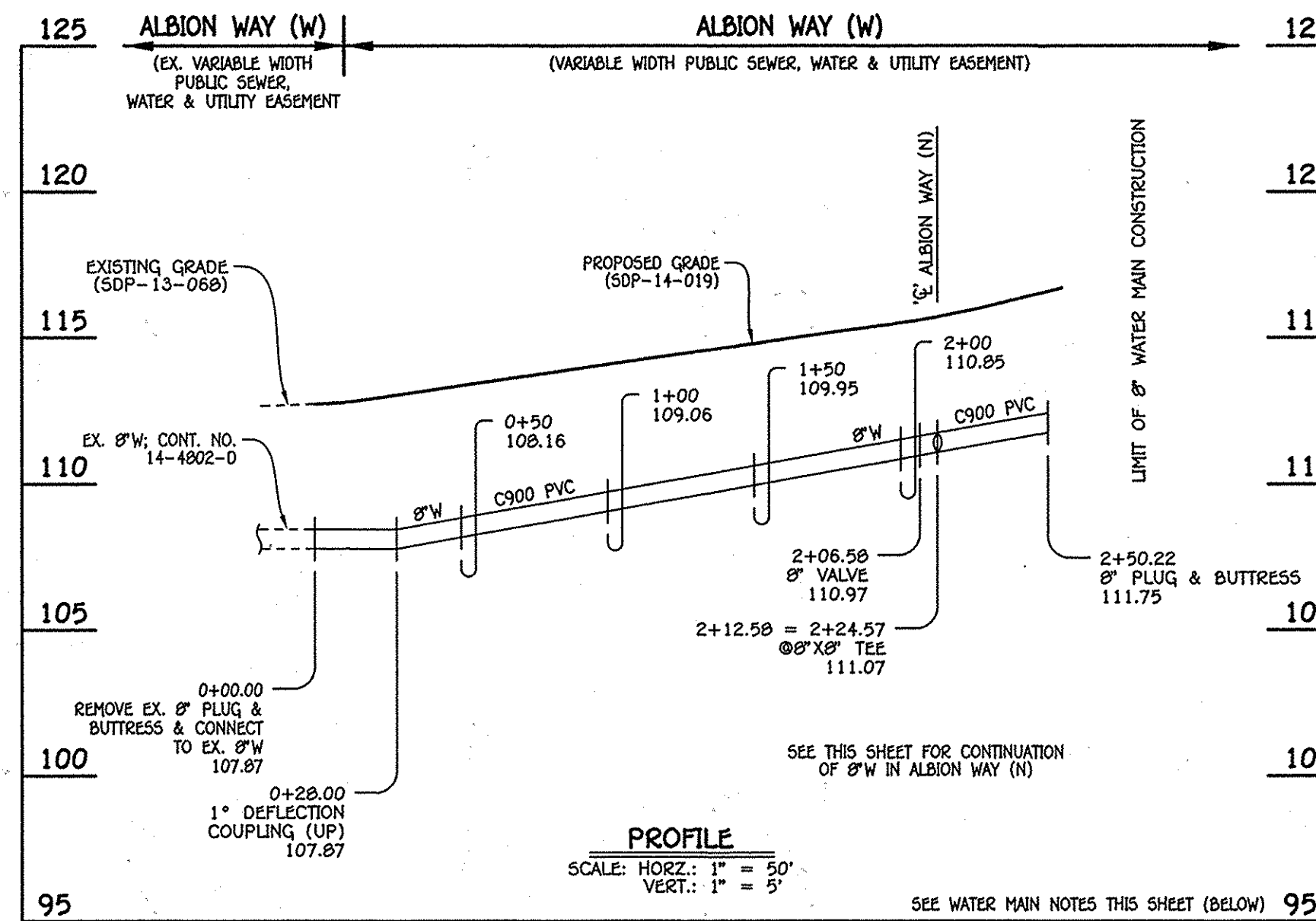


8" SEWER MAIN: ALBION WAY (W); EX. MH 310 - MH 800

NO.	NORTHING	EASTING	RIM ELEVATION
800	553019.13	1386834.77	116.23

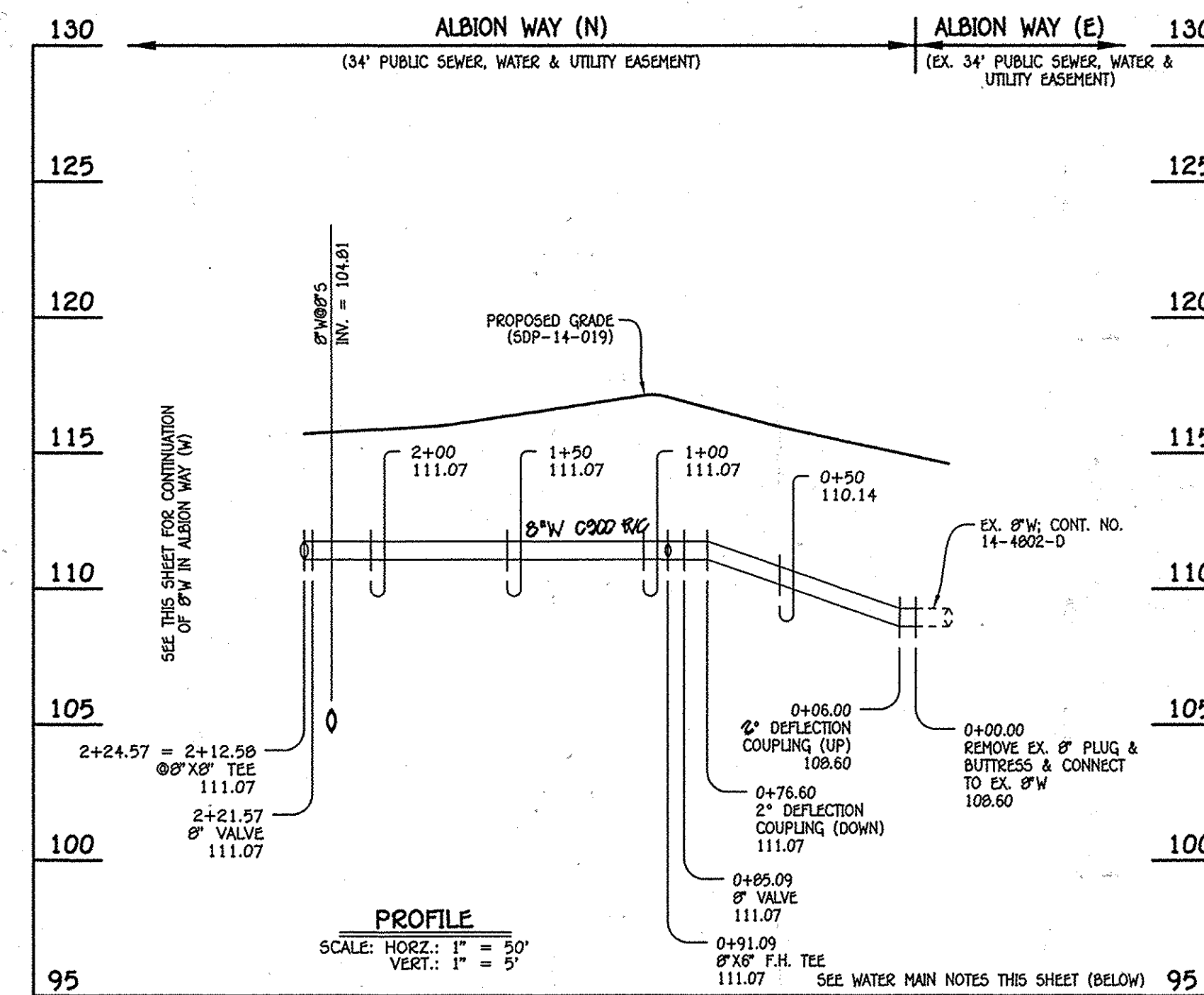
NOTE: SET MH RIMS FLUSH W/PROPOSED GRADE.

STATION	LOT	ELEVATION AT MAIN	ELEVATION AT R/W	M.C.E.	SLAB
EX. MH 310 TO MH 800					
0+15 RT.	212	102.99	103.23	107.03	114.72
0+20 LT.	162	103.04	103.48	107.28	115.20
0+35 RT.	211	103.19	103.43	107.23	114.72
0+40 LT.	163	103.24	103.68	107.48	115.87
0+55 RT.	210	103.39	103.63	107.43	115.39
0+60 LT.	164	103.44	103.88	107.68	115.87
0+75 RT.	209	103.59	103.83	107.63	115.36
0+80 LT.	165	103.64	104.08	107.88	116.54
0+95 RT.	208	103.79	104.03	107.83	116.06
1+00 LT.	166	103.84	104.28	108.08	116.54
1+35 LT.	167	104.19	104.63	108.43	117.21
1+55 LT.	168	104.39	104.83	108.63	117.21
1+75 LT.	169	104.59	105.03	108.83	117.88
1+95 LT.	170	104.79	105.23	109.03	117.88
2+20 LT.	171	105.04	105.48	109.28	118.55
2+35 LT.	172	105.19	105.63	109.43	118.55
8"MH 800 LT.	173	105.56	106.00	109.80	119.22



8" WATER MAIN: ALBION WAY (W)

W.M. STA.	APPURTENANCE	NORTHING	EASTING
8" WATER MAIN: ALBION WAY (W)			
0+00.00	EX. 8" PLUG & BUTTRESS	552793.81	1386712.87
2+06.58	8" VALVE	552979.20	1386804.00
2+12.58	8" X 8" TEE	552984.59	1386806.65
2+50.22	8" PLUG & BUTTRESS	553018.37	1386823.26



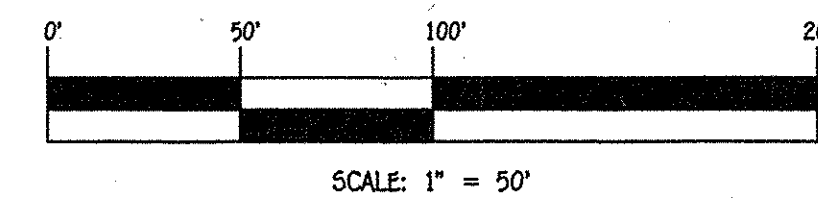
8" WATER MAIN: ALBION WAY (N)

W.M. STA.	APPURTENANCE	NORTHING	EASTING
8" WATER MAIN: ALBION WAY (N)			
0+00.00	EX. 8" PLUG & BUTTRESS	552885.18	1387008.02
0+05.09	8" VALVE	552922.84	1386931.72
0+91.09	8" X 8" F.H. TEE	552925.50	1386926.34
2+21.57	8" VALVE	552983.25	1386809.34
2+24.57	8" X 8" TEE	552984.58	1386806.65

WATER MAIN NOTES:

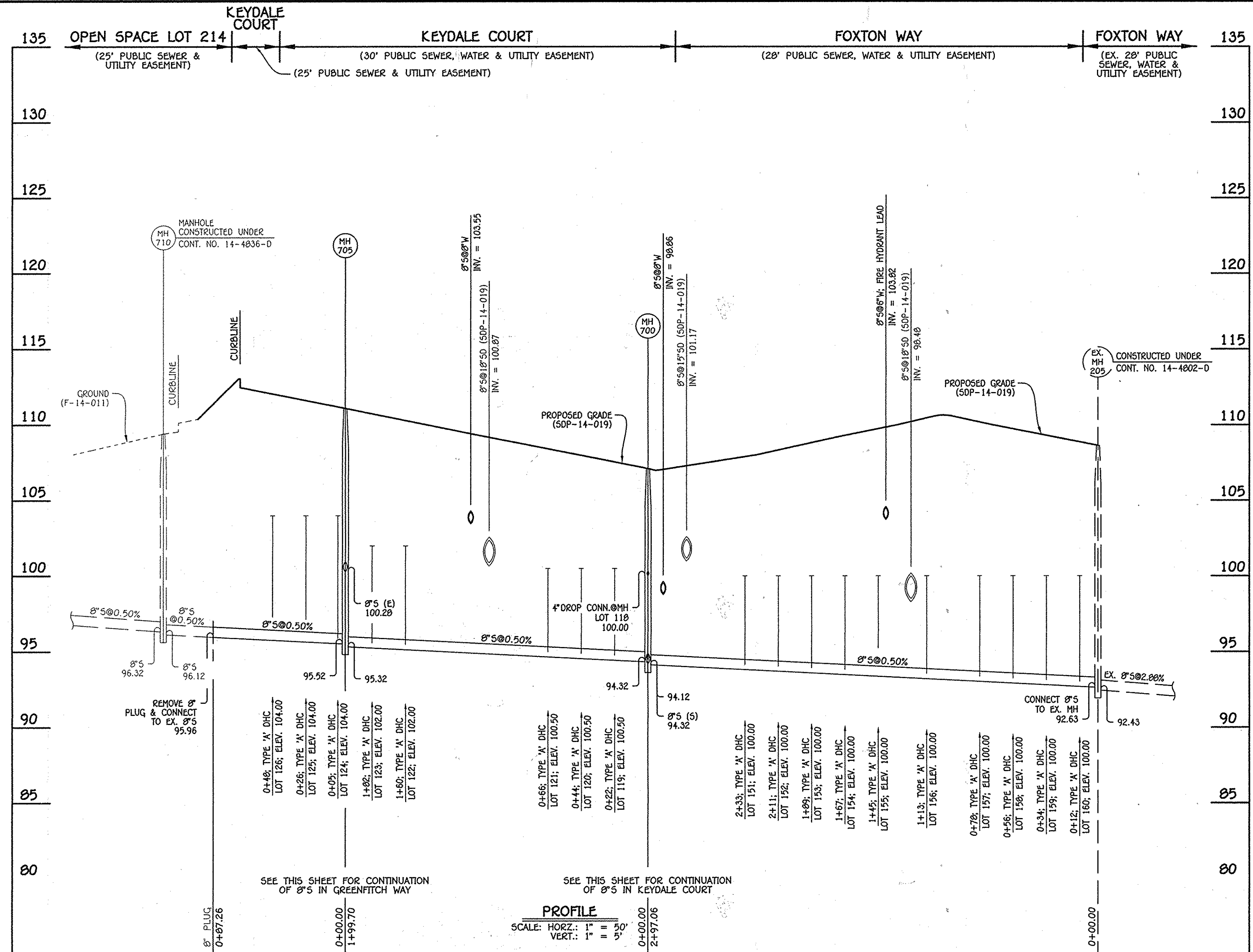
1. ALL WATER MAINS SHALL BE AWWA C900 PVC PIPE; DR-18.
2. ALL PIPE BEDDING, TRACER WIRE, LOCATING TAPE AND OTHER APPURTENANCES SHALL BE IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOLUME IV - WATER AND SEWER STANDARDS FOR AWWA C900 PVC WATER PIPE INSTALLATION.
3. DEFLECTION COUPLINGS SHALL BE CERTAIN-TEED PVC HIGH DEFLECTION COUPLINGS.
4. ALL WATER HOUSE CONNECTIONS AND TAPS SHALL BE PERFORMED USING A SADDLE.

AS BUILTS 5/31/16

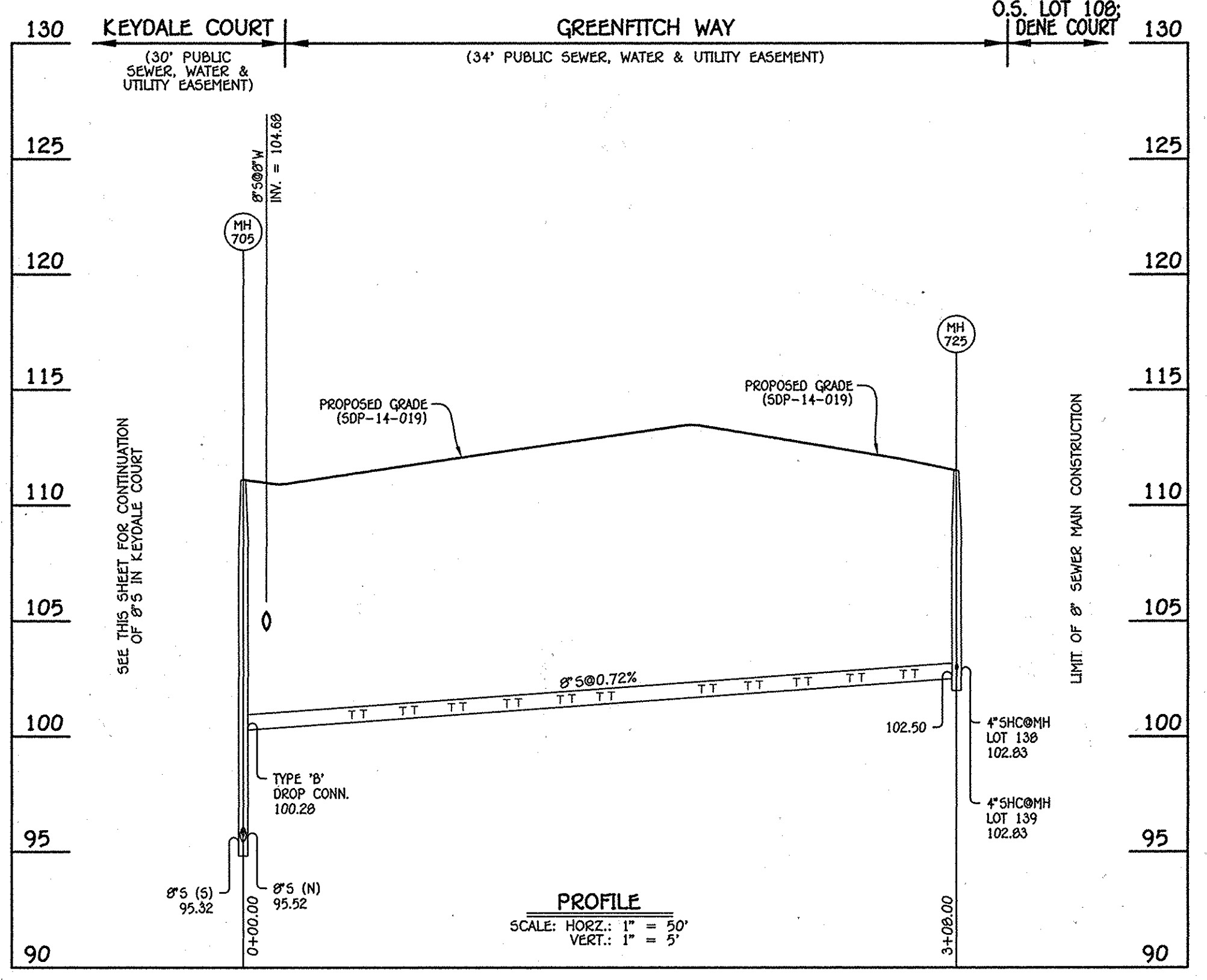


CONTRACT NO. 14-4820-D  
OXFORD SQUARE  
LOTS 117 THRU 212 & OPEN SPACE  
LOTS 213 THRU 225  
WATER & SEWER MAIN EXTENSIONS  
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND DATE: 5/14/14	DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND DATE: 5.20.14	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. <b>FISHER COLLINS &amp; CARTER, INC.</b> CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS CENTRAL SQUARE OFFICE PARK - 1072 BALTIMORE NATIONAL FREE BLVD ELLETT CITY, MARYLAND 21740 (410) 481-2299	DESIGNED BY: B.C.R. DRAWN BY: B.C.R. CHECKED BY: P.W.K. DATE: MAY, 2014	WATER & SEWER MAIN EXTENSIONS PROFILES & CHARTS 600' SCALE MAP NO. 38 BLOCK NO. 19 & 20 F.C.C. WORK ORDER NO. 09014-3007 FILE NAME: WATER & SEWER MAIN EXTENSION PLAN	OXFORD SQUARE LOTS 117 THRU 212 & OPEN SPACE LOTS 213 THRU 225 WATER & SEWER MAIN EXTENSIONS CONTRACT NO. 14-4820-D FIRST ELECTION DISTRICT HOWARD COUNTY, MARYLAND	SCALE AS SHOWN SHEET 4 OF 6
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8" SEWER MAIN: FOXTON WAY & KEYDALE COURT; EX. MH 205 - EX. 8" PLUG



8" SEWER MAIN: GREENFITCH WAY; MH 705 - MH 725

STATION	LOT	ELEVATION AT MAIN	ELEVATION AT R/W	M.C.E.	SLAB
EX. MH 205 TO MH 700					
0+12 RT.	160 (DHC)	100.00	100.38	104.28	111.09
0+34 RT.	159 (DHC)	100.00	100.38	104.28	111.09
0+56 RT.	158 (DHC)	100.00	100.38	104.28	111.76
0+78 RT.	157 (DHC)	100.00	100.38	104.28	112.43
1+13 RT.	156 (DHC)	100.00	100.38	104.28	113.10
1+45 RT.	155 (DHC)	100.00	100.38	104.28	112.30
1+67 RT.	154 (DHC)	100.00	100.38	104.28	111.63
1+89 RT.	153 (DHC)	100.00	100.38	104.28	110.96
2+11 RT.	152 (DHC)	100.00	100.38	104.28	110.29
2+33 RT.	151 (DHC)	100.00	100.38	104.28	110.29
①MH 700 CEN.	118 (DROPP CONN.)	100.00	100.24	104.24	108.57
MH 700 TO MH 705					
0+22 LT.	119 (DHC)	100.50	100.74	104.74	109.24
0+44 LT.	120 (DHC)	100.50	100.74	104.74	109.91
0+66 LT.	121 (DHC)	100.50	100.74	104.74	109.91
1+60 LT.	122 (DHC)	102.00	102.24	106.24	112.06
1+82 LT.	123 (DHC)	102.00	102.24	106.24	113.53
MH 705 TO MH 710					
0+05 LT.	124 (DHC)	104.00	104.24	108.24	113.53
0+26 LT.	125 (DHC)	104.00	104.24	108.24	113.53
0+48 LT.	126 (DHC)	104.00	104.24	108.24	113.53

NO.	NORTHING	EASTING	RIM ELEVATION
700	552388.21	1385862.78	107.11
705	552587.31	1385951.11	111.10

NOTE: SET MH RIMS FLUSH W/PROPOSED GRADE.

STATION	LOT	ELEVATION AT MAIN	ELEVATION AT R/W	M.C.E.	SLAB
MH 700 TO MH 720					
①MH 720 RT.	117	95.52	95.76	99.76	108.57

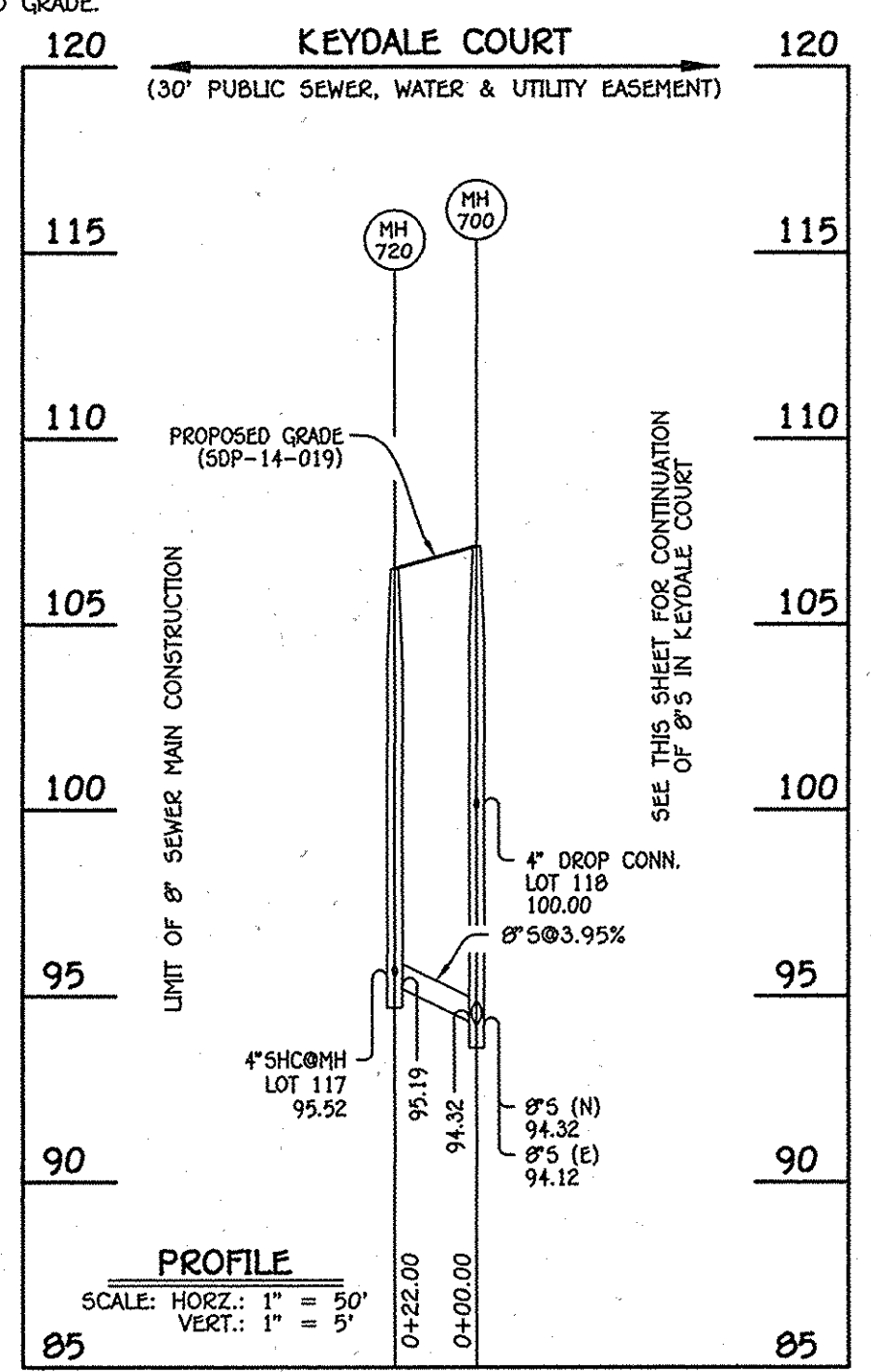
NO.	NORTHING	EASTING	RIM ELEVATION
720	552368.48	1385853.05	106.50

NOTE: SET MH RIM FLUSH W/PROPOSED GRADE.

STATION	LOT	ELEVATION AT MAIN	ELEVATION AT R/W	M.C.E.	SLAB
MH 705 TO MH 725					
0+47 LT.	127	100.79	101.23	105.23	113.88
0+52 RT.	150	100.82	101.06	105.06	113.44
0+69 LT.	128	100.95	101.39	105.39	114.55
0+74 RT.	149	100.98	101.22	105.22	114.11
0+90 LT.	129	101.10	101.54	105.54	114.55
0+95 RT.	148	101.13	101.37	105.37	114.11
1+14 LT.	130	101.27	101.71	105.71	115.22
1+19 RT.	147	101.31	101.55	105.55	114.78
1+37 LT.	131	101.44	101.88	105.88	115.22
1+42 RT.	146	101.47	101.71	105.71	114.78
1+54 LT.	132	101.56	102.00	106.00	115.22
1+59 RT.	145	101.59	101.83	105.83	114.78
1+98 LT.	133	101.88	102.32	106.32	115.67
2+03 RT.	144	101.91	102.15	106.15	115.60
2+18 LT.	134	102.02	102.46	106.46	115.67
2+23 RT.	143	102.06	102.30	106.30	114.93
2+39 LT.	135	102.17	102.61	106.61	115.67
2+44 RT.	142	102.21	102.45	106.45	114.93
2+62 LT.	136	102.34	102.78	106.78	115.00
2+67 RT.	141	102.37	102.61	106.61	114.26
2+85 RT.	140	102.50	102.74	106.74	115.20
2+90 LT.	137	102.54	102.98	107.27	115.00
①MH 725 LT.	138	102.83	103.27	107.07	114.33
①MH 725 RT.	139	102.83	103.07	107.07	112.92

NO.	NORTHING	EASTING	RIM ELEVATION
725	552431.00	1386227.31	111.50

NOTE: SET MH RIM FLUSH W/PROPOSED GRADE.

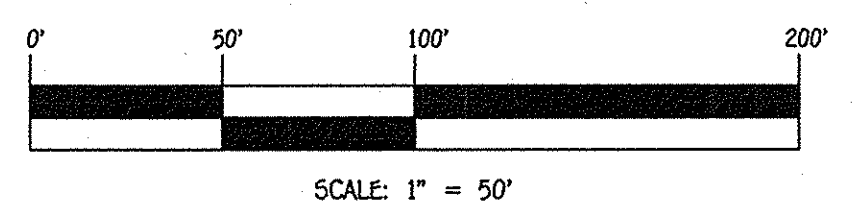


8" SEWER MAIN: KEYDALE COURT; MH 700 - MH 720

NOTE: THIS ORIGINAL CONSTRUCTION PLAN, SHEET 5 OF 6 SUPERSEDES THE WATER & SEWER MAIN CONSTRUCTION PLAN PREVIOUSLY APPROVED AND SIGNED BY THE DEPARTMENT OF PLANNING AND ZONING ON MAY 20, 2014.

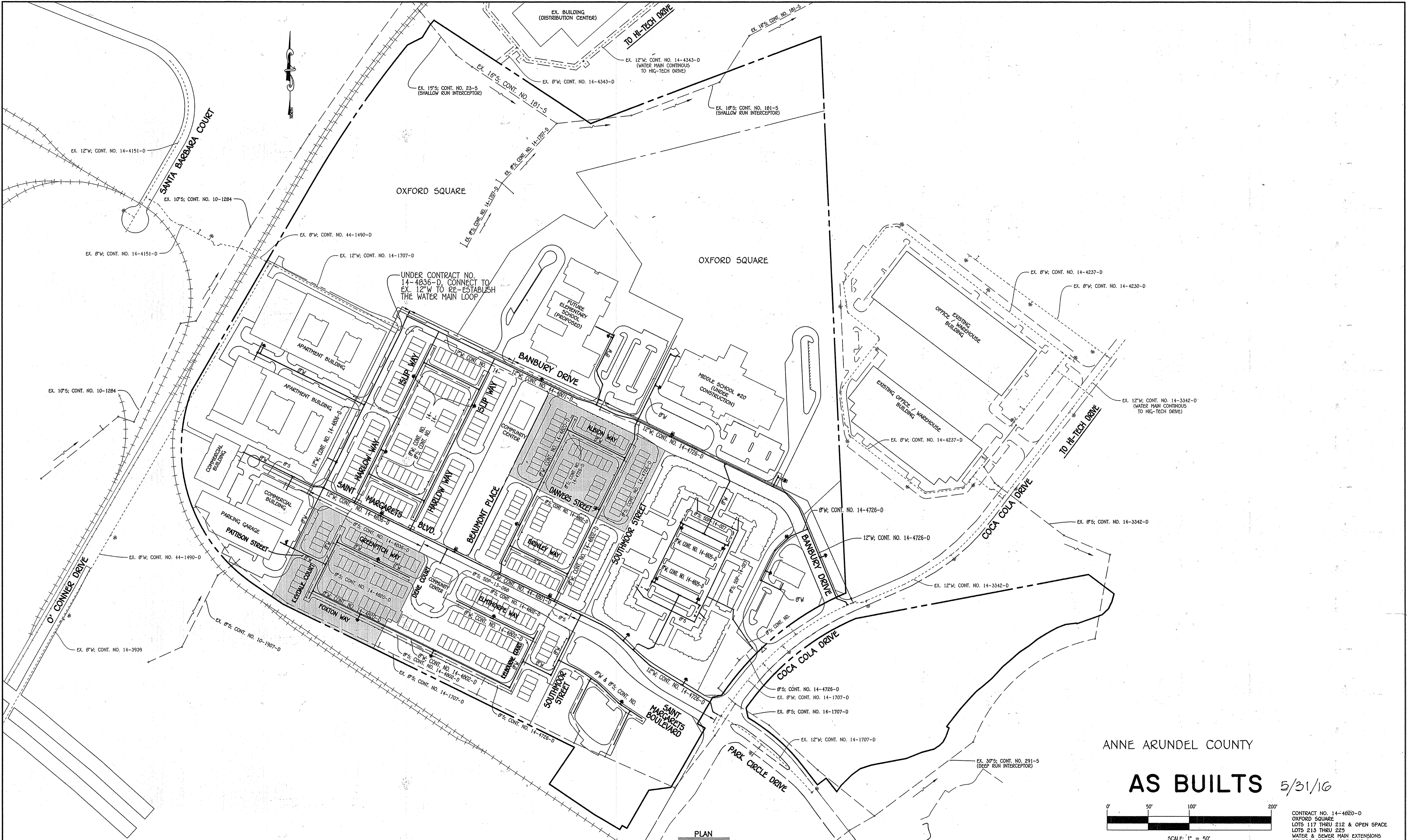
DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND [Signature] 12/23/14 CHIEF, BUREAU OF UTILITIES	DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND [Signature] 1-9-15 CHIEF, DEVELOPMENT ENGINEERING DIVISION	I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 12043 EXPIRATION DATE IS 7/16/16. <b>FISHER, COLLINS &amp; CARTER, INC.</b> CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS CENTENNIAL SQUARE OFFICE PARK - 10222 BALTIMORE NATIONAL PIKE ELKLOFT CITY, MARYLAND 21042 (410) 461-2855	DESIGNED BY: B.C.R. DRAWN BY: B.C.R. CHECKED BY: P.W.K. DATE: DECEMBER, 2014	SEWER MAIN EXTENSIONS PROFILES & CHARTS 600' SCALE MAP NO. 38 BLOCK NO. 19 & 20 F.C.C. WORK ORDER NO. 09014-3007 FILE NAME: WATER & SEWER MAIN EXTENSION PLAN	OXFORD SQUARE LOTS 117 THRU 212 & OPEN SPACE LOTS 213 THRU 225 WATER & SEWER MAIN EXTENSIONS CONTRACT NO. 14-4820-D FIRST ELECTION DISTRICT HOWARD COUNTY, MARYLAND	SCALE AS SHOWN SHEET 5 OF 6
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AS BUILT 5/31/16



CONTRACT NO. 14-4820-D  
 OXFORD SQUARE  
 LOTS 117 THRU 212 & OPEN SPACE  
 LOTS 213 THRU 225  
 WATER & SEWER MAIN EXTENSIONS  
 HOWARD COUNTY, MARYLAND

I:\2009\09014.dwg Water & Sewer Contracts\3007 - Contract No. 14-4820-d (SDP-14-019)W-14-046)Final\09014-14-046)Water and Sewer Contract Plan - Phase 5 - Sheet 6.dwg, Sheet 6, 4/27/2014 10:54 PM



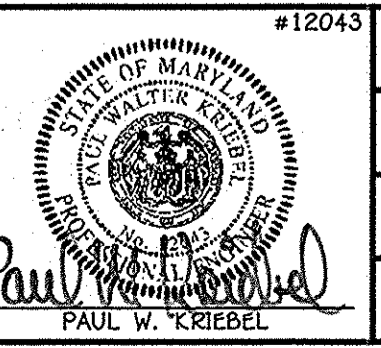
ANNE ARUNDEL COUNTY  
**AS BUILTS** 5/31/16  
  
 SCALE: 1" = 50'

CONTRACT NO. 14-4820-D  
 OXFORD SQUARE  
 LOTS 117 THRU 212 & OPEN SPACE  
 LOTS 213 THRU 225  
 WATER & SEWER MAIN EXTENSIONS  
 HOWARD COUNTY, MARYLAND

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 QUALY 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 PIKE  
 ELIOTT CITY, MARYLAND 21114  
 (410) 461-2895



DESIGNED BY: B.C.R.	DATE: MAY, 2014
DRAWN BY: B.C.R.	BY NO.
CHECKED BY:	REVISION
DATE:	DATE

<b>WATER &amp; SEWER MAIN EXTENSIONS OVERVIEW</b>	
600' SCALE MAP NO. 38	BLOCK NO. 19 & 20
F.C.C. WORK ORDER NO. 09014-3007	
FILE NAME: WATER & SEWER MAIN EXTENSION PLAN	

OXFORD SQUARE  
 LOTS 117 THRU 212 & OPEN SPACE  
 LOTS 213 THRU 225  
 WATER & SEWER MAIN EXTENSIONS  
 CONTRACT NO. 14-4820-D  
 FIRST ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND

SCALE AS SHOWN  
 SHEET 6 OF 6

SHL

Lot #	From	To	Distance	Remarks
132		SM 725	22.5	
132		WM 131,132	2.5	
132		SM 725	13.5	
133		WM 132	1.3	
141		SM 725	42.1	
141		WM 140,141	9	
142		WM 140,141	25	
142		SM 725	65	
135		SM 725	71	
135		WM 135,136	10	
134		SM 725	93	
134		WM 133,134	10	
133		FM	18	
133		WM 133,134	13	
147		FM	69	
147		WM 146,147	10	
130		FM	65	
130		WM 133	11	
127		WM 127,130	19	
127		FM	89	
128		SHL 129	22.5	
128		FM	11	
127		FM	133	
127		WM 127,128	14	
130		FM	130.5	
130		WM 130	15	
117		SM 700	28.5	
117		WM 117,118	12.5	
118		SM 700	1.85	
118		WM 117,118	10	
119		SM 700	24.5	
117		WM 119,120	14	
120		SM 700	35	
120		WM 119,120	10	
121		SHL 120	22.5	
121		SM 700	46.5	
127		SM 700	69	
127		WM 127,128	10	

SHL

Lot #	From	To	Distance	Remarks
140		SHL 141	20.5	
140		WM 140,141	12	
152		SM 700	20.5	
152		WM 151,152	13	
153		SM 700	110.5	
153		WM 153,154	10	
154		WM 153,154	13	
154		SM 700	132	
155		SM 700	150.5	
155		WM 155	14	
152		SM 700	186	
152		WM 152,157	26	
157		SM 700	221	
157		WM 152,157	10	
158		SM 700	244	
158		WM 158,159	11	
157		SM 700	264.5	
157		WM 158,159	10	
160		SM 700	286.5	
160		SHL 60	22	
122		WM 122	9	
122		SM 700	420.5	
123		SM 700	22.5	
123		WM 123,124	13	
124		SM 700	11	
124		WM 123,124	10	
125		SM 700	28	
125		WM 125,126	10	
126		SM 700	49.5	
126		WM 125,126	13	
149		SM 800	11	
149		SHL 150	20.5	
149		SHL 149	22.5	
149		WM 149,149	12	
131		WM 131,132	13	
131		FM	43	
144		FM	49	
144		SHL 145	18	

SHL

Lot #	From	To	Distance	Remarks
145		SHL 146	12	
145		FM	37	
131		WM 131,132	10	
131		FM	22	
144		FM	39	
144		SHL 144	10	
143		WM 143,144	7	
143		SHL 142	19	
142		SM 800	37	
142		WM 142	13.5	
143		WM 143,144	18	
143		SHL 164	20	
144		SHL 165	21	
144		WM 143,144	12	
145		SHL 166	21	
145		WM 145	10	
146		SHL 165	20	
146		WM 145,146	12	
147		SHL 168	18	
147		WM 147	12	
148		SHL 167	20	
148		WM 148,149	10	
149		SHL 168	20	
149		WM 148,149	11	
170		SM 169	20	
170		WM 171,170	10	
171		SM 800	38	
171		SHL 171	16	
172		SM 800	30	
172		WM 172,173	10	
173		SM 800	24.5	
212		WM 172,173	10	
212		SM 310	21	
212		SHL 211	19	
211		SM 310	35	
211		SHL 212	19	
210		SHL 211	21	
210		WM 207,210	15	

SHL

Lot #	From	To	Distance	Remarks
209		SHL 208	21	
209		WM 209,210	7	
208		WM 208	15	
208		SHL 209	21	
174		SM 800	53	
174		WM 174	10	
175		SM 800	53	
175		SHL 175	22	
176		WM 175,176	11	
172		SHL 177	17	
177		WM 177,178	13	
177		SHL 205	36	
178		WM 177,178	10	
178		FM	19	
179		SHL 178	15	
179		WM 179,180	14.5	
180		WM 179,180	7.5	
180		FM	34.5	
181		WM 181,182	13	
181		FM	54	
182		SHL 181	20	
182		WM 181,182	10	
200		WM 200,201	12	
200		SHL 201	21	
201		WM 201,202	10.5	
201		SHL 202	20	
202		FM	39	
202		WM 202,203	10	
203		FM	31	
203		SHL 178	36.5	
204		SHL 205	21	
204		WM 177,178	36	
205		WM 204,205	14	
205		SHL 177	34	
206		SHL 205	19	
206		SHL 176	34	
207		SM 805	17	
207		SHL 174	37	

WHL

Lot #	From	To	Distance	Remarks
137, 138		SM 725	23.5	
137, 138		SHL 138	7.5	
139		SM 725	20	
139		SHL 139	14	
140, 141		SM 725	34	
140, 141		WM 139	44.5	
142, 143		SM 725	76	
142, 143		SHL 42	11.5	
135, 136		SM 725	57.5	
135, 136		SHL 42	34	
134, 133		SM 725	99.5	
134, 133		SHL 134	10	
144		SM 725	114.5	
144		WM 145	23	
145		FM	33	
145		WM 144	23	
131, 132		FM	30.5	
141, 142		WM 145	41	
146, 147		FM	61.5	
146, 147		SHL 147	10	
146, 147		FM	100	
129, 130		FM	75.5	
129, 130		SHL 139	10	
129, 127		FM	118.5	
128, 127		SHL 128	10	
150		FM	144.5	
150		SHL 150	15	
117, 118		SM 700	18	
117, 118		SHL 117	12.5	
117, 120		SHL 117	14	
117, 120		SM 700	36	
121		SHL 120	36	
121		SM 700	80	
151, 152		SM 700	70.5	
151, 152		WM 151	10	
153, 154		SM 700	119	
153, 154		SHL 153	10	
155		SHL 155	14	
155		SM 700	160.5	
148, 149		SHL 147	35	

WHL

Lot #	From	To	Distance	Remarks
164, 157		SHL 156	26	
164, 157		SM 700	211	
158, 157		SM 700	254.5	
158, 157		SHL 158	11	
160		SHL 157	33	
160		SM 700	229	
122		SM 700	51.5	
122		SHL 122	9	
123, 124		SHL 123	13	
123, 124		SM 700	14	
125, 126		SHL 125	10	
125, 126		SM 700	37	
162		SM 310	23.5	
162		SHL 162	13.5	
163, 164		SHL 163	10	
165, 166		SHL 165	10	
165, 166		SHL 166	12	
167		SHL 167	22	
167		WM 167	12.5	
168, 169		SHL 168	10	
168, 169		SHL 169	11	
172, 171		SHL 170	10	
172, 171		SHL 171	14	
172, 173		SHL 172	10	
172, 173		SM 800	26	
211, 212		SHL 212	16	
211, 212		SHL 211	8	
209, 210		SHL 210	15	
209, 210		SHL 209	7	
208		SHL 208	15.5	
208		FM	20	
174		SM 800	35	
174		SHL 174	10	
175, 176		SHL 175	12	
175, 176		SHL 176	11	
179, 178		SHL 177	13	
179, 178		SHL 178	10	
179, 180		FM	29	
179, 180		SHL 179	14.5	

WHL

Lot #	From	To	Distance	Remarks
181, 182		SHL 200	36	
181, 182		WM 200, 201	38	
200, 201		SHL 181	34.5	
200, 201		WM 181, 182	34	
202, 203		FM	34	
202, 203		WM 179, 180	37	
204, 205		WM 177, 178	33	
204, 205		FM	44	
206, 207		SHL 206	8.5	
206, 207		SHL 178	34.5	