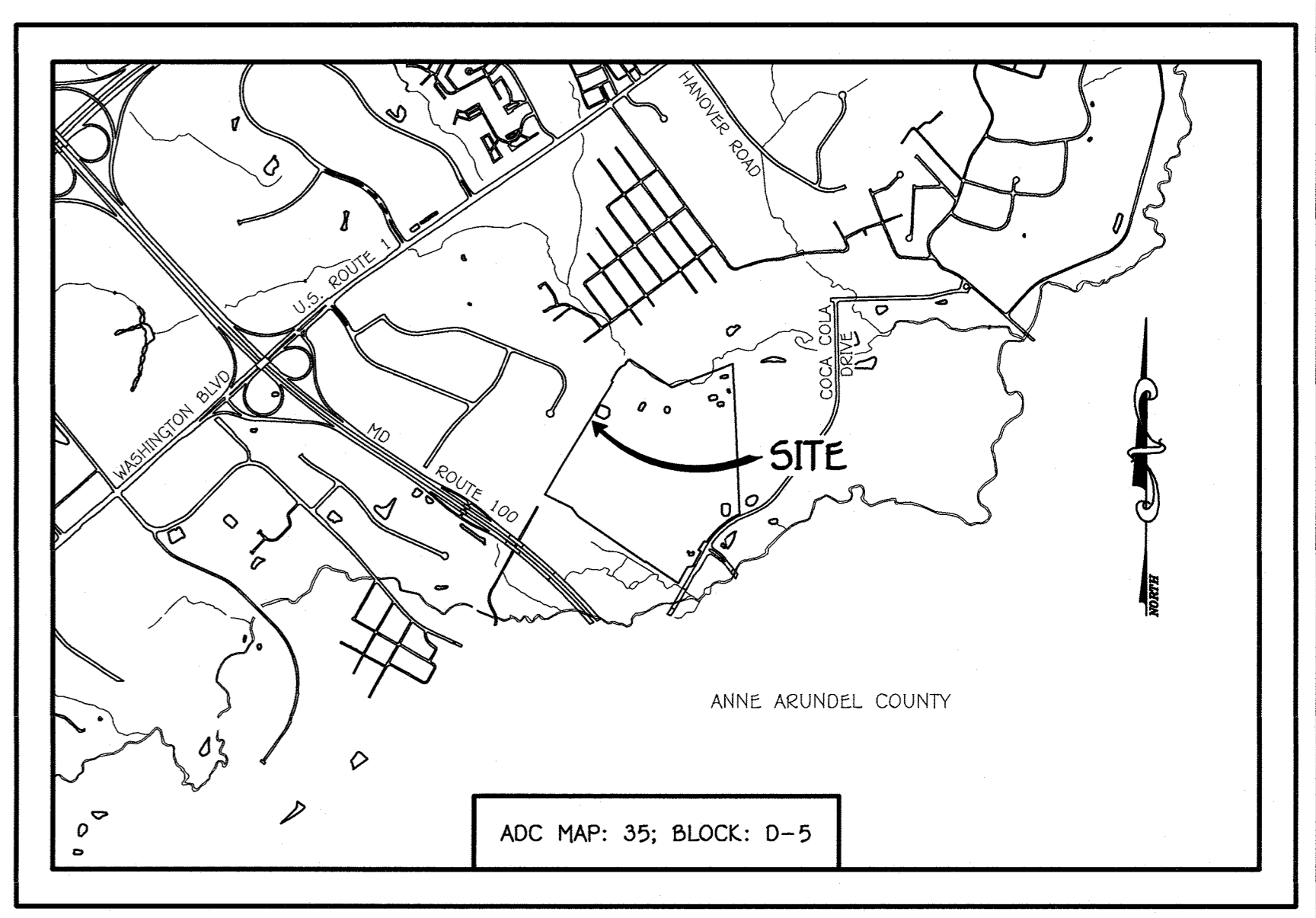
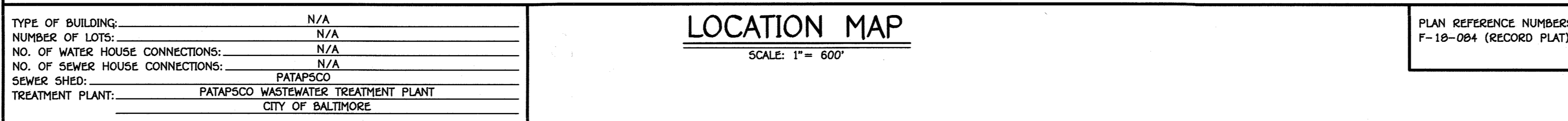
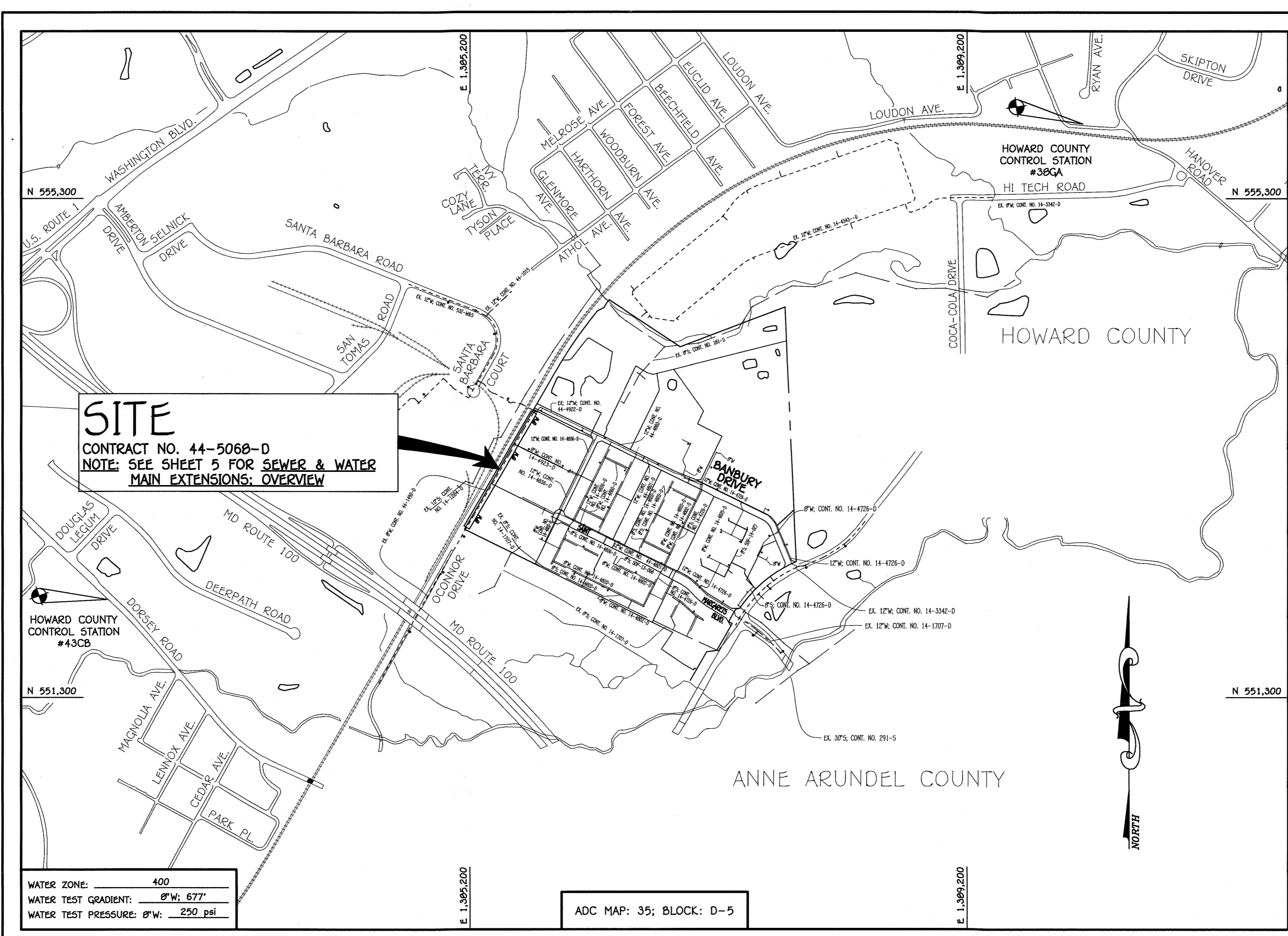


QUANTITIES				
ITEM	ESTIMATED	QUANTITIES	AS-BUILT	SUPPLIER
8" PVC 900 PVC DR-14	1,355 L.F.	1,355 L.F.	C 900 PVC	NORTH AMERICAN
8" PVC 900 PVC DR-14	50 L.F.	55 L.F.	C 900 PVC	---
8" TAPPING SLEEVE	1 EACH	1 EACH	---	---
8" Tee	6 EACH	7 EA.	EPOXY DI	TYLER UNION
8" F.H. Tee	3 EACH	3 EA.	---	---
8" TAPPING VALVE	1 EACH	1 EACH	---	---
8" VALVE	9 EACH	10 EA.	---	MUELLER
8" VALVE	3 EACH	3 EA.	---	---
1/8" H.B.	5 EACH	6 EA.	---	TYLER UNION
1/16" H.B.	1 EACH	1 EA.	---	---
1/32" H.B.	4 EACH	4 EA.	---	---
8" PLUG & BUTTRESS	4 EACH	2 EA.	---	---
FIRE HYDRANT	3 EACH	3 EA.	---	MUELLER
CONTINUITY TEST STATION	3 EACH	5 EA.	CONCRETE	HORNE CONCRETE
EX. 8" W (REMOVAL)	1,087 L.F.	1,087 L.F.	---	---
8" x 8" WYE	1 EA.	1 EA.	DUCTILE	---

BENCHMARK INFORMATION

B.M.#1 - HOWARD COUNTY CONTROL STATION #36CA - HORIZONTAL - N/A'83
(LOCATED ALONG RAILROAD AVENUE, JUST SOUTH OF RYAN AVENUE, APPROX. 22.6' NORTH FROM THE CENTER LINE OF RAILROAD AVENUE.
N 555,997.3373
E 1,390,132.0933
ELEVATION = 60.783 - VERTICAL - (NAVD '80)

B.M.#2 - HOWARD COUNTY CONTROL STATION #43CB - HORIZONTAL - (NAD '83)
(LOCATED ALONG THE SOUTHSIDE OF DORSEY ROAD, APPROX. 2.2' OFF THE EDGE OF PAVING, APPROX. 46.7' EAST OF POWER POLE NO. 19)
N 552,084.2466
E 1,392,282.4190
ELEVATION = 144.391 - VERTICAL - (NAVD '80)



TYPE OF BUILDING: N/A
 NUMBER OF LOTS: N/A
 NO. OF WATER HOUSE CONNECTIONS: N/A
 NO. OF SEWER HOUSE CONNECTIONS: N/A
 SEWER SHED: PATAPSCO
 TREATMENT PLANT: PATAPSCO WASTEWATER TREATMENT PLANT CITY OF BALTIMORE

DMV2 WAIVER#19-001 (SEE SHEET 2 FOR CONDITIONS AND LIMITATIONS)

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. Keibel; FOR:
 Preston-Scheffnacker Properties
 SIGNATURE OF DEVELOPER
 04-25-19
 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. Keibel; FOR:
 Preston-Scheffnacker Properties
 SIGNATURE OF DEVELOPER
 04-25-19
 DATE

GP-19-094

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

Paul W. Keibel; FOR:
 Preston-Scheffnacker Properties
 SIGNATURE OF DEVELOPER
 04-25-19
 DATE

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

CONTRACT NO. 44-5068-D

OXFORD SQUARE

WATER MAIN REPLACEMENT

WATER MAIN EXTENSIONS

HOWARD COUNTY, MARYLAND

AS-BUILT

12/11/19

OWNER
 KELLOGG-CCP, LLC
 c/o DAVID P. SCHEFFNACKER, JR.
 MANAGING MEMBER
 100 WEST ROAD, SUITE 304
 TOWSON, MARYLAND 21284
 PHONE: 410-296-3600

DEVELOPER
 PRESTON-SCHNEFFACKER PROPERTIES
 100 WEST ROAD, SUITE 304
 TOWSON, MARYLAND 21284
 PHONE: 410-296-3600

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

4/26/19

DEPARTMENT OF PLANNING AND ZONING
 HOWARD COUNTY, MARYLAND

5.28.19

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 7/18/20.

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
 ELKLOTT CITY, MARYLAND 21042
 (410) 461-3999

DESIGNED BY: B.C.R.
 DRAWN BY: B.C.R.
 CHECKED BY: P.W.K.
 DATE: APRIL, 2019

BY	NO.	REVISION	DATE

WATER MAIN EXTENSIONS TITLE SHEET

600' SCALE MAP NO. 38 BLOCK NO. 19 & 20
 F.C.C. WORK ORDER NO. 09014-3023

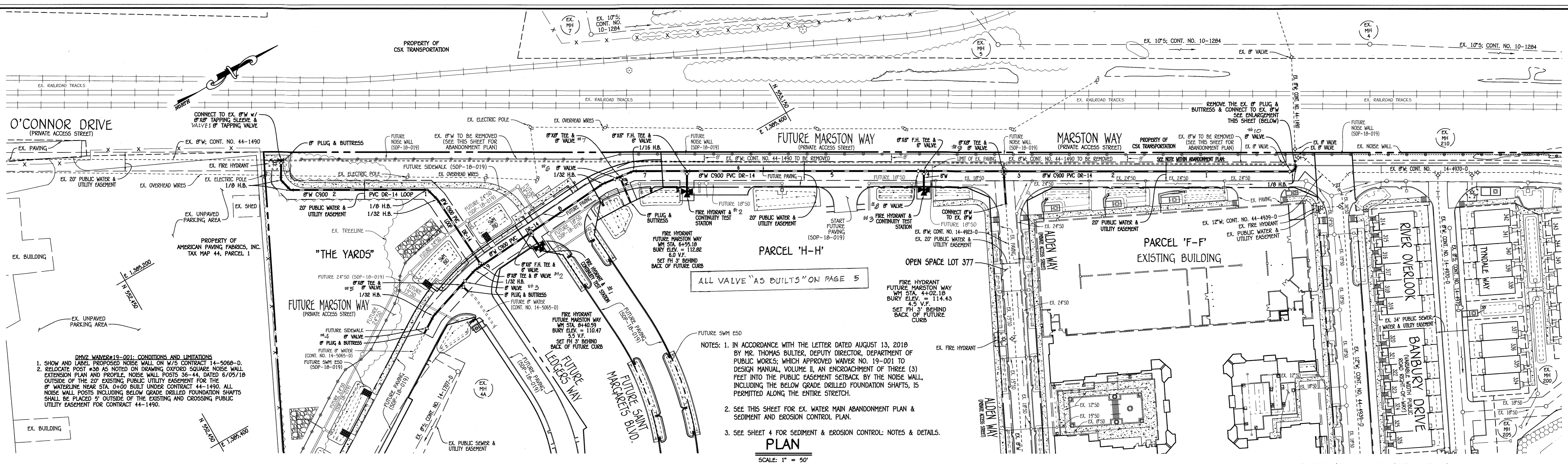
FILE NAME: WATER MAIN EXTENSIONS PLAN

OXFORD SQUARE WATER MAIN REPLACEMENT
 WATER MAIN EXTENSIONS
 CONTRACT NO. 44-5068-D
 FIRST ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

SCALE AS SHOWN

SHEET 1 OF 5

13:20909044(eng)Water & Sewer Contracts303 - Contract No. 44-5068-D (F-18-084)(W/M Reletting)F180914-3023 Water Contract Plan sheets 4/25/2019 3:46:11 PM, Upstairs 1500 (Temporary) P3



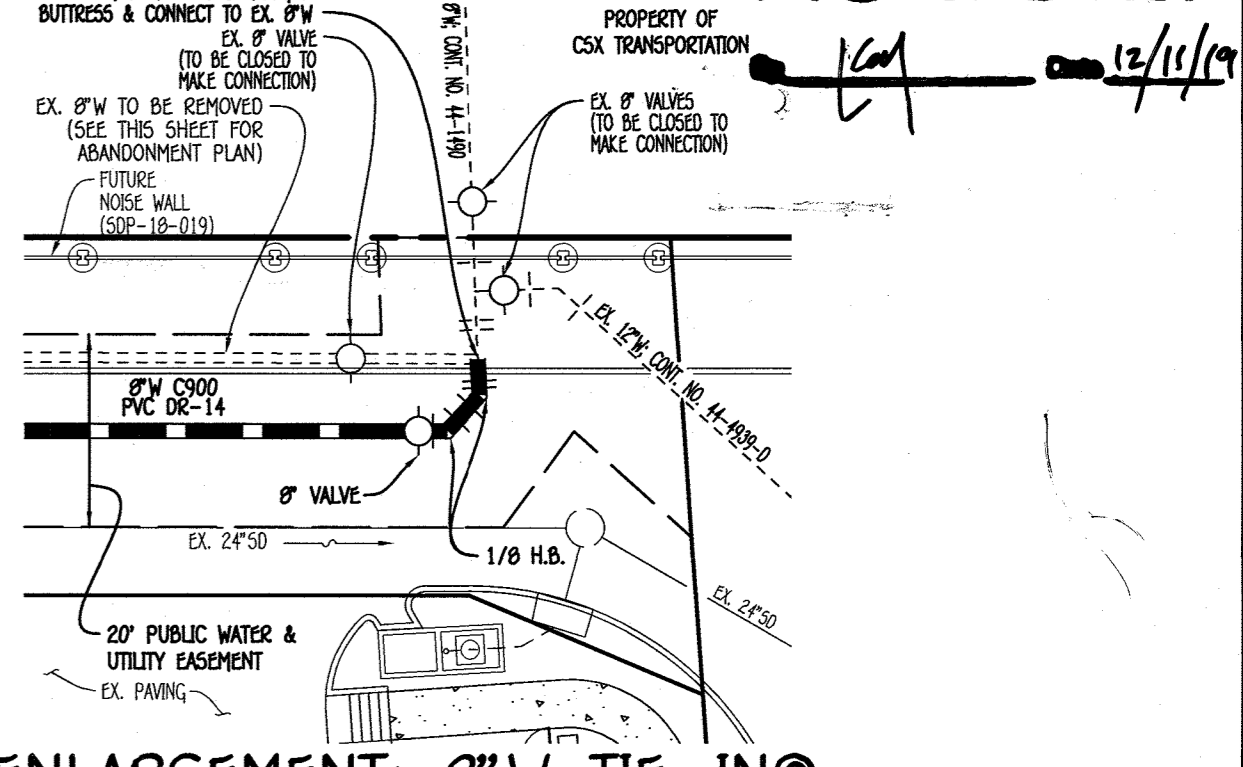
ALL VALVE "AS BUILTS" ON PAGE 5

NOTES: 1. IN ACCORDANCE WITH THE LETTER DATED AUGUST 13, 2018 BY MR. THOMAS BULTER, DEPUTY DIRECTOR, DEPARTMENT OF PUBLIC WORKS, WHICH APPROVED WATER NO. 19-001 TO DESIGN MANUAL VOLUME II, AN ENCROACHMENT OF THREE (3) FEET INTO THE PUBLIC EASEMENT SETBACK BY THE NOISE WALL, INCLUDING THE BELOW GRADE DRILLED FOUNDATION SHAFTS, IS PERMITTED ALONG THE ENTIRE STREET.
 2. SEE THIS SHEET FOR EX. WATER MAIN ABANDONMENT PLAN & SEDIMENT AND EROSION CONTROL PLAN.
 3. SEE SHEET 4 FOR SEDIMENT & EROSION CONTROL: NOTES & DETAILS.

PLAN
SCALE: 1" = 50'

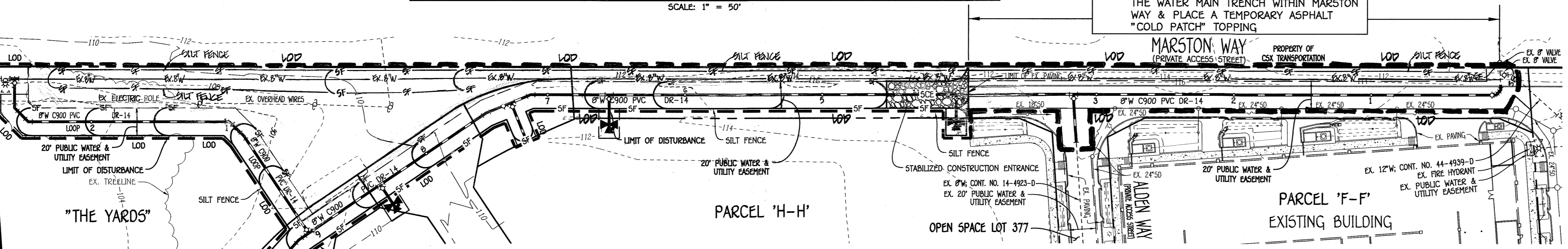
- SEQUENCE OF CONSTRUCTION**
- CLOSE THE THREE (3) EX. 8" VALVES AS DENOTED IN THE ENLARGEMENT (BELOW).
 - FROM WM STA. 0+00 TO WM STA. 0+11.81 (MARSTON WAY / FUTURE MARSTON WAY) CONNECT TO THE EX. 8" WATER MAIN; INSTALL 8" W; UP TO & INCLUDING 8" VALVE AT WM STA. 0+11.81.
 - CLOSE THE 8" VALVES AT WM STA. 0+11.81 (MARSTON WAY / FUTURE MARSTON WAY); RE-OPEN THE THREE (3) EX. 8" VALVES TO MAINTAIN SERVICE IN THE EX. 8" W.
 - INSTALL THE 8" REPLACEMENT WATER MAIN FROM WM STA. 0+11.81 TO WM STA. 9+98.77 (MARSTON WAY / FUTURE MARSTON WAY).
 - INSTALL THE 8" WATER MAIN LOOP FROM WM STA. 0+00.00 TO A POINT JUST BEFORE WM STA. 2+78.38.
 - FROM WM STA. 2+78.38 TO WM STA. 2+81.38 (WATER MAIN LOOP) CONNECT TO THE EX. 8" WATER MAIN WITH AN 8"X8" TAPPING SLEEVE AND 8" TAPPING VALVE.
 - CLOSE THE 8" TAPPING VALVE AT WM STA. 2+78.38 (WATER MAIN LOOP).
 - CLOSE THE 8" VALVE AT WM STA. 0+11.81 (MARSTON WAY / FUTURE MARSTON WAY).
 - PRESSURE TEST & CHLORINATE THE NEWLY INSTALLED 8" WATER MAINS (MARSTON WAY / FUTURE MARSTON WAY & WATER MAIN LOOP); ARRANGE FOR AND CONDUCT THE IN-SERVICE INSPECTION.
 - FROM WM STA. 0+03.00 TO WM STA. 0+34.83, INSTALL THE 8" WATER MAIN IN ALDEN WAY; & CONNECT TO THE EX. 8" WATER MAIN; CONT. NO. 14-4923-D.
 - AT WM STA. 2+31.38; 8"X8" TAPPING SLEEVE (WATER MAIN LOOP) INSTALL AN 8" PLUG & BUTTRISS ON THE "THRU" END OF THE 8"X8" TAPPING SLEEVE.
 - OPEN THE 8" VALVE AT WM STA. 0+11.81 (MARSTON WAY) FUTURE MARSTON WAY); OPEN THE EX. 8" VALVES ON THE EX. 8" WATER MAINS; OPEN THE 8" TAPPING VALVE AT WM STA. 2+78.38 (WATER MAIN LOOP); OPEN THE 8" VALVE AT WM STA. 0+03.00 (ALDEN WAY); PLACE THE NEWLY INSTALLED 8" WATER MAINS IN SERVICE.
 - WITHIN THE LIMITS INDICATED / DENOTED ON THE ABANDONMENT / REMOVAL PLAN THIS SHEET, REMOVE THE EX. 8" WATER MAIN IN ITS ENTIRETY.

AS-BUILT

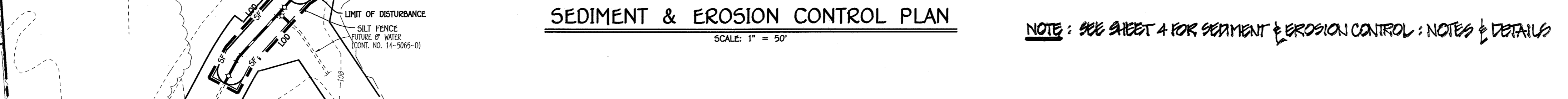


ENLARGEMENT: 8" W TIE-IN @ EX. 8" W (CONT. NO. 44-1490)
SCALE: 1" = 20'

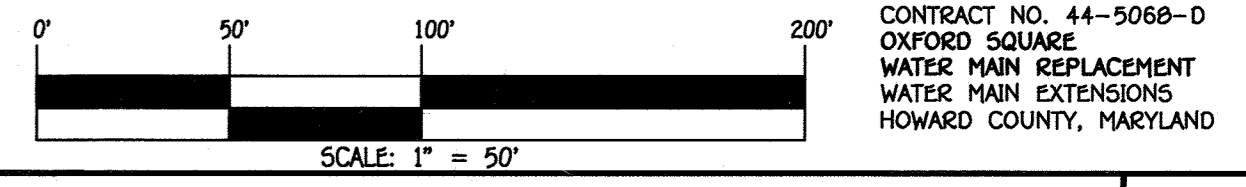
ABANDONMENT PLAN: REMOVAL OF EX. 8" WATER MAIN
SCALE: 1" = 50'



SEDIMENT & EROSION CONTROL PLAN
SCALE: 1" = 50'



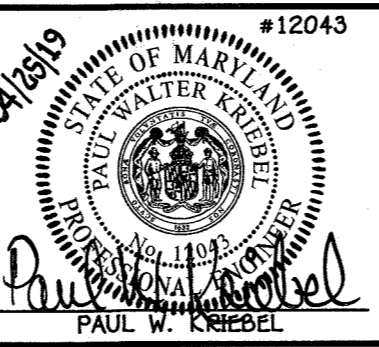
NOTE: SEE SHEET 4 FOR SEDIMENT & EROSION CONTROL: NOTES & DETAILS



DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
4/26/19

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND
5.28.19

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 CENTRAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
 ELKLOFT CITY, MARYLAND 21042
 (410) 461-2995

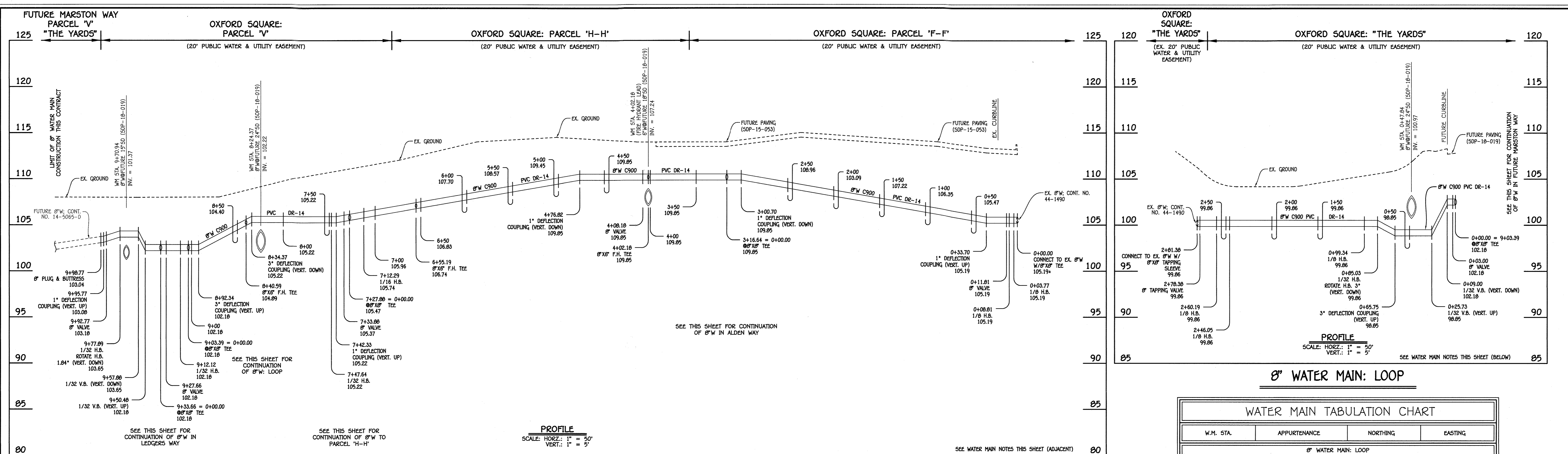


DESIGNED BY:	B.C.R.
DRAWN BY:	B.C.R.
CHECKED BY:	P.W.K.
DATE:	APRIL, 2019
BY NO.	
REVISION	

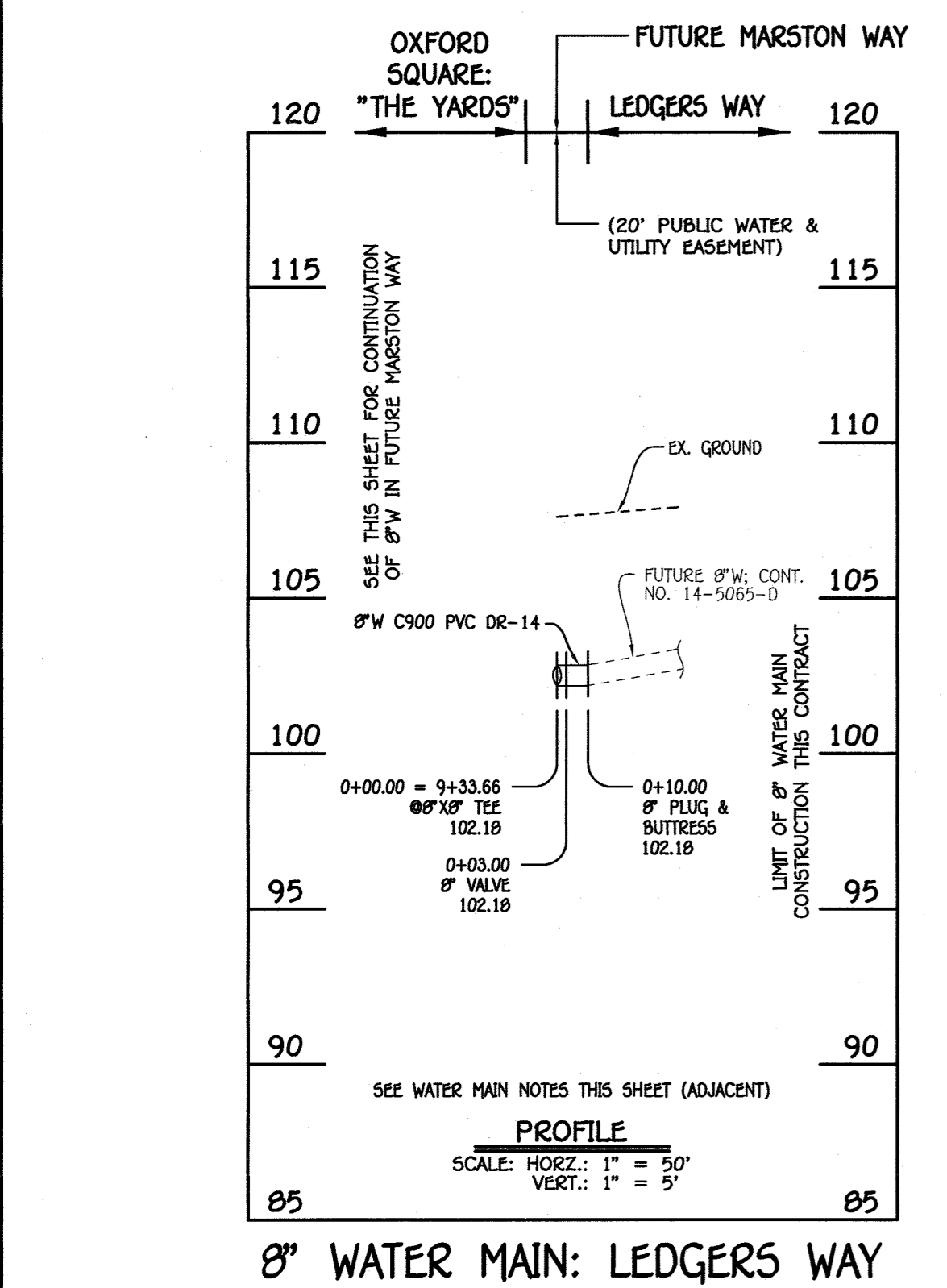
WATER MAIN EXTENSIONS PLAN,
 ABANDONMENT PLAN &
 SEDIMENT & EROSION CONTROL PLAN
 600' SCALE MAP NO. 30 BLOCK NO. 19 & 20
 F.C.C. WORK ORDER NO. 09014-3023
 FILE NAME: WATER MAIN EXTENSIONS PLAN

OXFORD SQUARE
 WATER MAIN REPLACEMENT
 WATER MAIN EXTENSIONS
 CONTRACT NO. 44-5068-D
 FIRST ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 SCALE AS SHOWN
 SHEET 2 OF 5

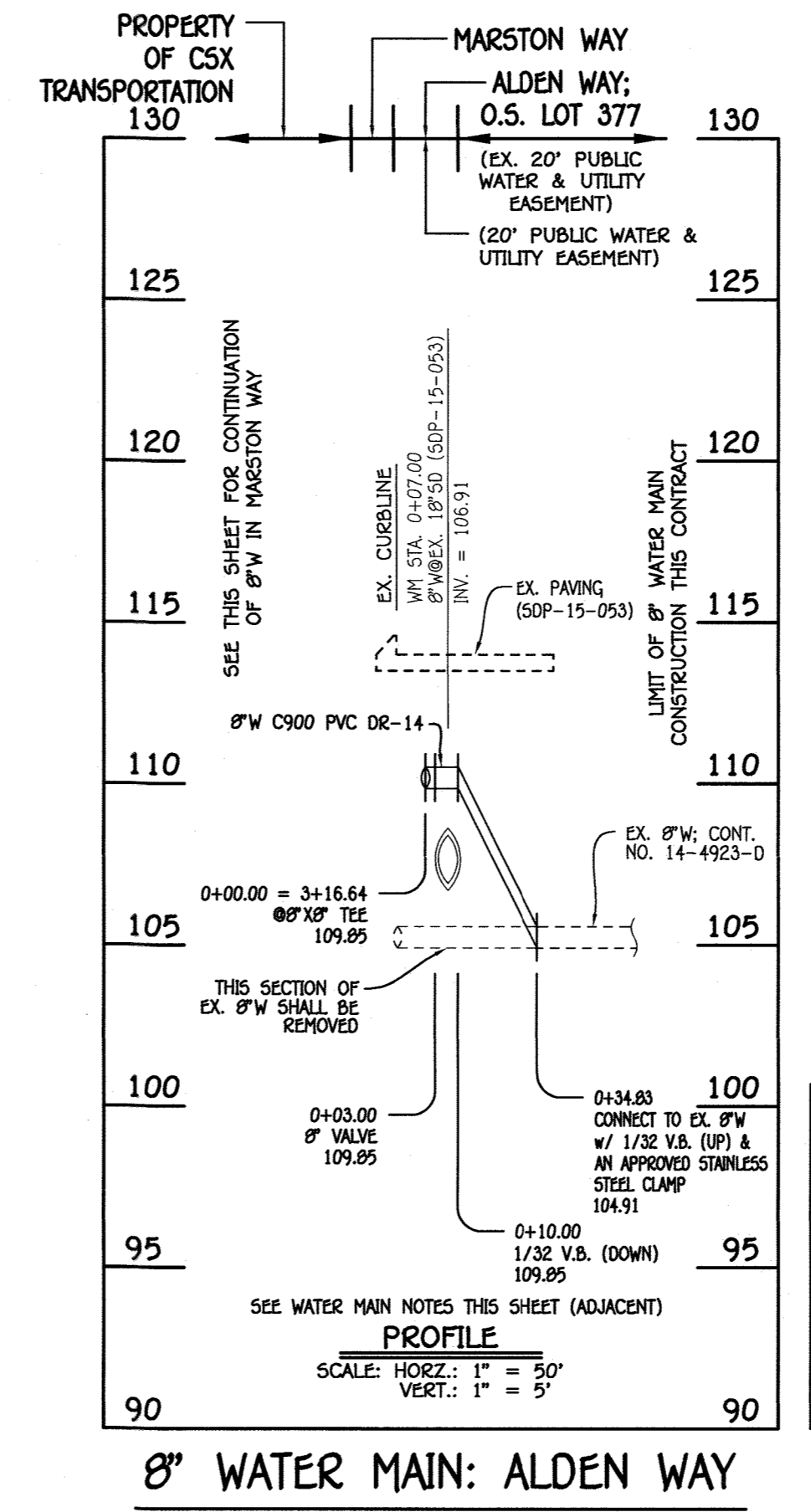
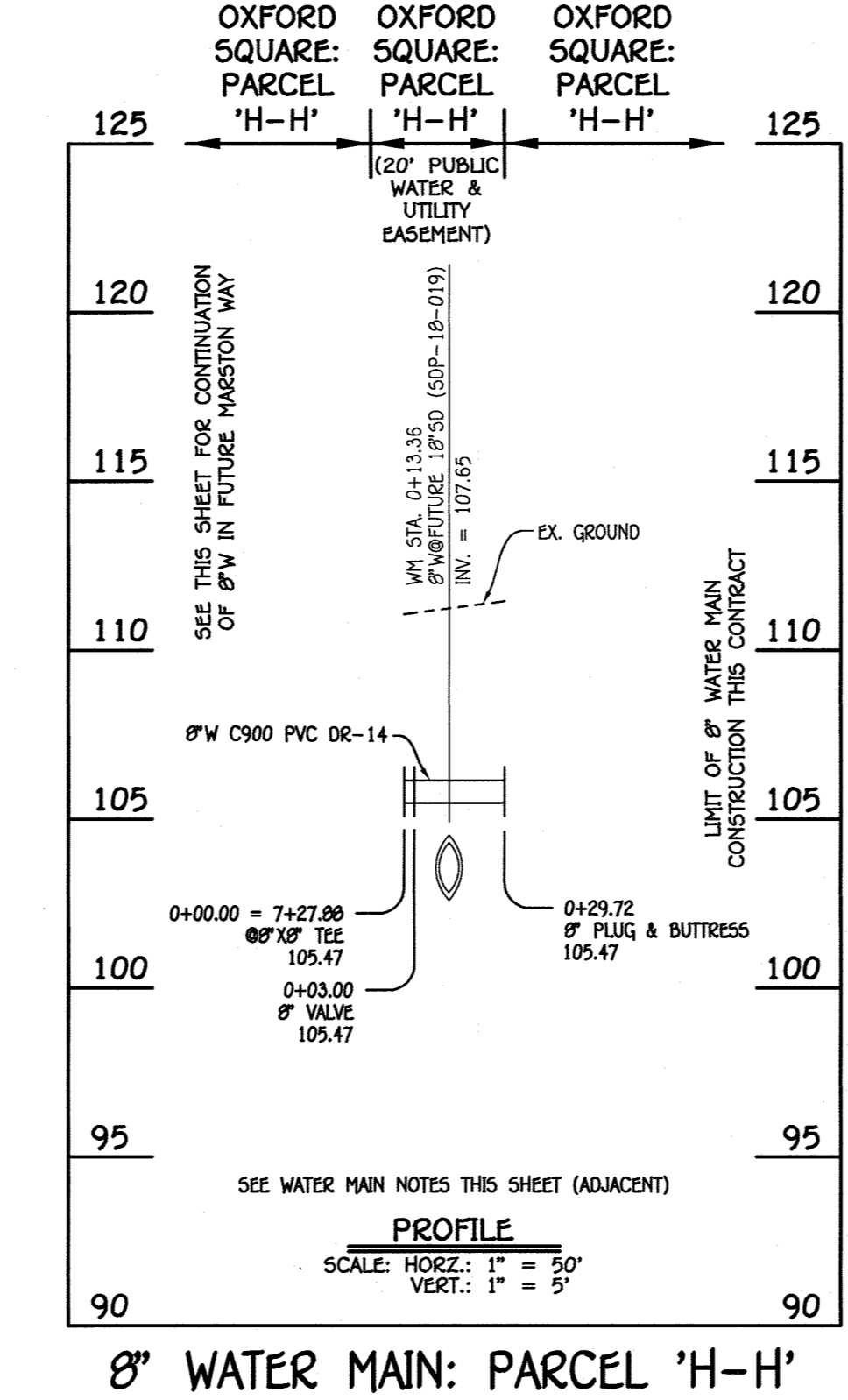
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 Contract No. 44-5068-D (F-18-094)(Water & Sewer Contract Rev.dwg, 4/25/2019 3:28:37 PM, Upstairs, 1500 (Temporary).pc3



W.M. STA.	APPURTENANCE	NORTHING	EASTING
8" WATER MAIN: LOOP			
0+00.00 = 9+03.39	Ø" XØ" TEE	552787.49	1385377.24
0+03.00	Ø" VALVE	552787.29	1385374.24
0+09.00	1/32 V.B. (VERT. DOWN)	552786.89	1385368.26
0+25.73	1/32 V.B. (VERT. UP)	552785.77	1385351.56
0+65.75	3" DEFLECTION COUPLING (VERT. UP)	552783.09	1385311.63
0+85.03	1/32 H.B.	552781.80	1385292.39
0+99.34	1/8 H.B.	552777.96	1385278.61
2+46.05	1/8 H.B.	552651.02	1385205.07
2+60.19	1/8 H.B.	552647.43	1385191.39
2+78.38	Ø" TAPPING VALVE	552656.60	1385175.68
2+81.38	Ø" XØ" TAPPING SLEEVE	552658.11	1385173.09



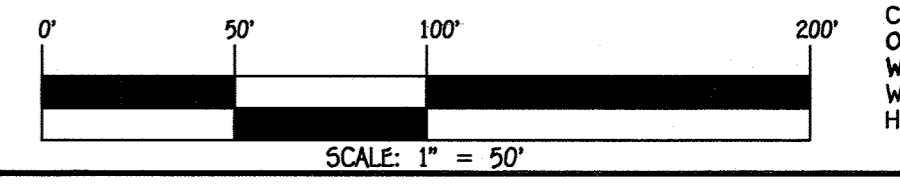
W.M. STA.	APPURTENANCE	NORTHING	EASTING
8" WATER MAIN: MARSTON WAY / FUTURE MARSTON WAY			
0+00.00	Ø" XØ" TEE	553593.21	1385719.46
0+03.77	1/8 H.B.	553591.45	1385722.80
0+08.81	1/8 H.B.	553586.64	1385724.29
0+11.81	Ø" VALVE	553584.05	1385722.78
0+33.70	1" DEFLECTION COUPLING (VERT. UP)	553565.10	1385711.81
3+00.70	1" DEFLECTION COUPLING (VERT. DOWN)	553334.07	1385577.97
3+16.64 = 0+00.00	Ø" XØ" TEE	553320.28	1385569.98
4+02.18	Ø" XØ" F.H. TEE	553246.26	1385527.10
4+08.18	Ø" VALVE	553241.07	1385524.09
4+76.82	1" DEFLECTION COUPLING (VERT. DOWN)	553181.68	1385489.68
6+55.19	Ø" XØ" F.H. TEE	553027.34	1385400.27
7+12.29	1/16 H.B.	552977.93	1385371.65
7+27.88 = 0+00.00	Ø" XØ" TEE	552962.48	1385369.55
7+33.88	Ø" VALVE	552956.53	1385368.75
7+42.33	1" DEFLECTION COUPLING (VERT. UP)	552948.16	1385367.62
7+47.64	1/32 H.B.	552942.89	1385366.91
8+34.37	3" DEFLECTION COUPLING (VERT. DOWN)	552856.36	1385372.66
8+40.59	Ø" XØ" F.H. TEE	552850.15	1385373.07
8+40.59	Ø" XØ" F.H. TEE	552850.15	1385373.07
8+92.34	3" DEFLECTION COUPLING (VERT. UP)	552798.52	1385376.50
9+03.39 = 0+00.00	Ø" XØ" TEE	552787.49	1385377.24
9+12.12	1/32 H.B.	552778.78	1385377.82
9+27.66	Ø" VALVE	552763.97	1385382.53
9+33.66 = 0+00.00	Ø" XØ" TEE	552758.25	1385384.35
9+50.48	1/32 V.B. (VERT. UP)	552742.22	1385389.46
9+57.88	1/32 V.B. (VERT. DOWN)	552735.18	1385391.70
9+77.88	1/32 H.B.	552716.11	1385397.77
9+92.77	Ø" VALVE	552703.50	1385405.66
9+95.77	1" DEFLECTION COUPLING (VERT. UP)	552700.95	1385407.25
9+98.77	Ø" PLUG & BUTTRESS	552698.41	1385408.84



W.M. STA.	APPURTENANCE	NORTHING	EASTING
8" WATER MAIN: ALDEN WAY			
0+00.00 = 3+16.64	Ø" XØ" TEE	553320.28	1385569.98
0+03.00	Ø" VALVE	553318.77	1385572.57
0+10.00	1/32 V.B. (VERT. DOWN)	553315.49	1385578.76
0+34.83	CONNECT TO EX. Ø" W/ 1/32 V.B. (VERT. UP)	553304.51	1385601.02

W.M. STA.	APPURTENANCE	NORTHING	EASTING
8" WATER MAIN: LEDGERS WAY			
0+00.00 = 9+33.66	Ø" XØ" TEE	552758.25	1385384.35
0+03.00	Ø" VALVE	552759.16	1385387.21
0+10.00	Ø" PLUG & BUTTRESS	552761.28	1385393.88

W.M. STA.	APPURTENANCE	NORTHING	EASTING
8" WATER MAIN: PARCEL 'H-H'			
0+00.00 = 7+27.88	Ø" XØ" TEE	552962.48	1385369.56
0+03.00	Ø" VALVE	552962.07	1385372.53
0+29.72	Ø" PLUG & BUTTRESS	552958.49	1385399.00



DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND

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CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTENAL SQUARE OFFICE PARK - 10272 BALTIMORE 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: APRIL, 2019

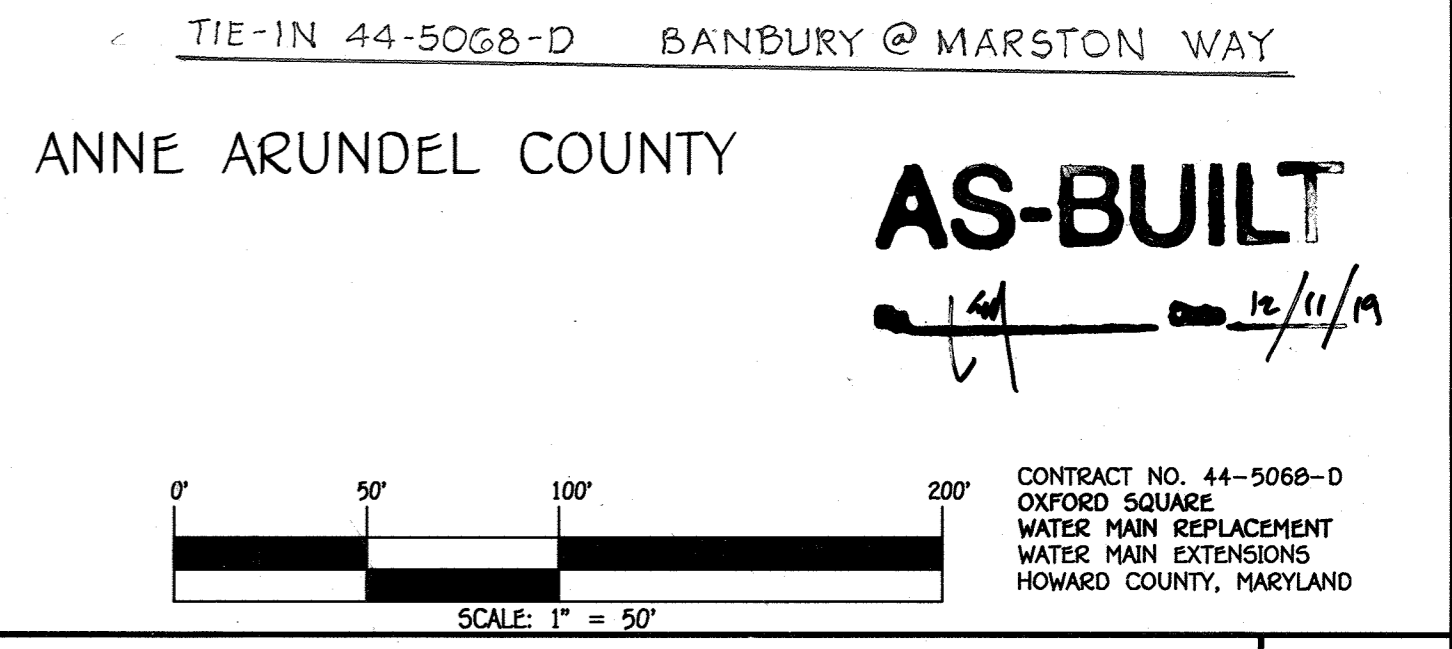
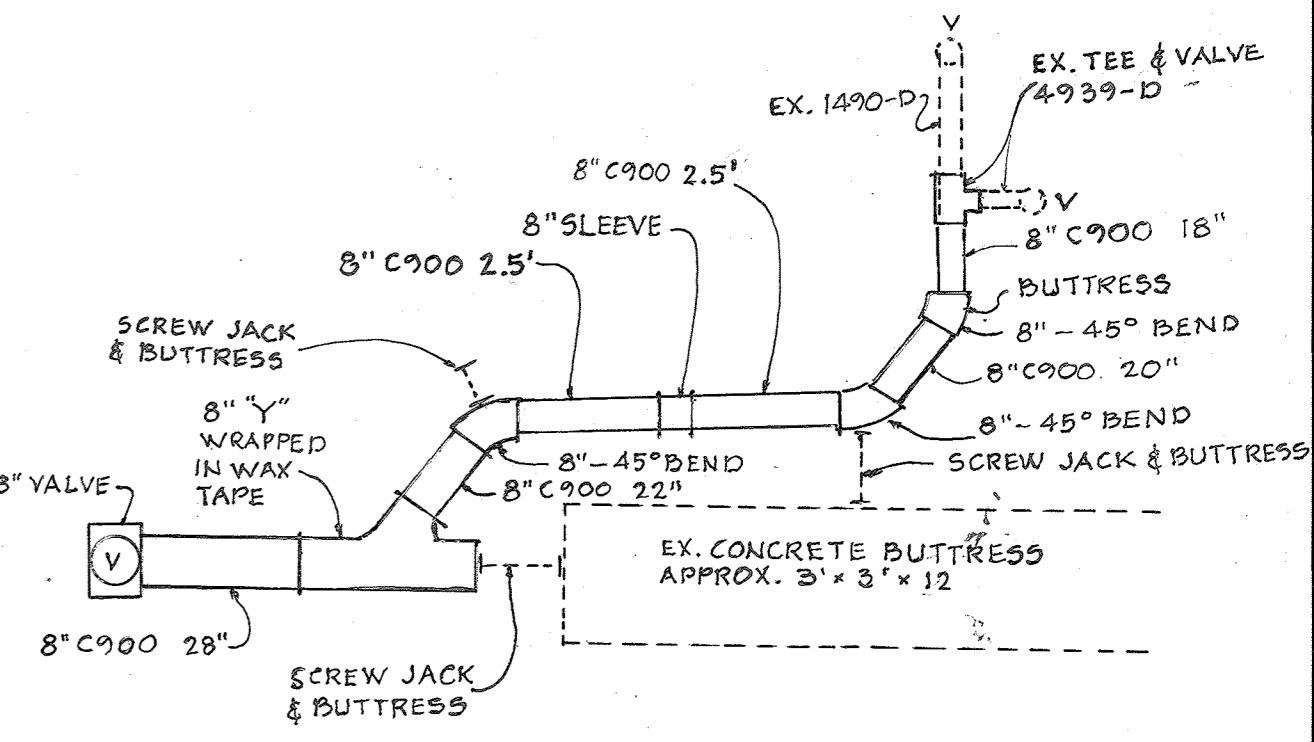
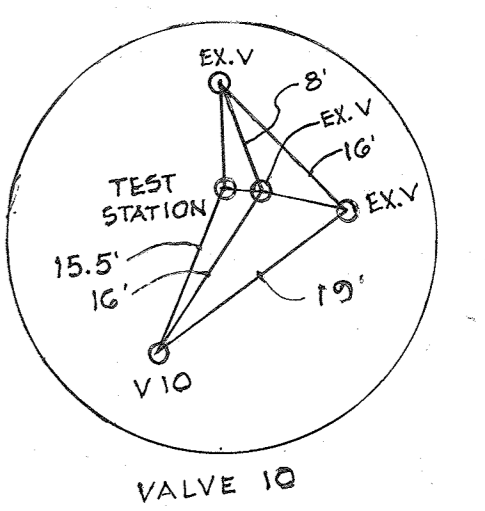
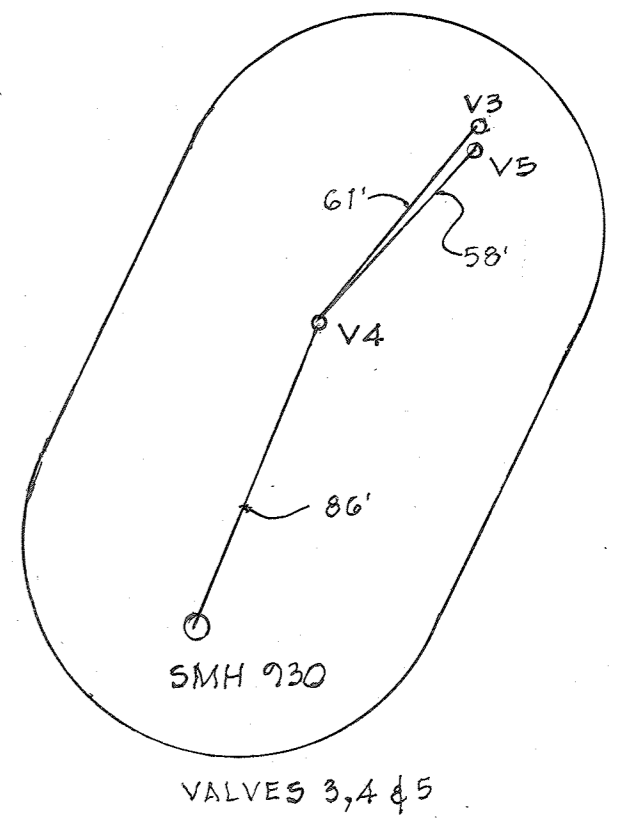
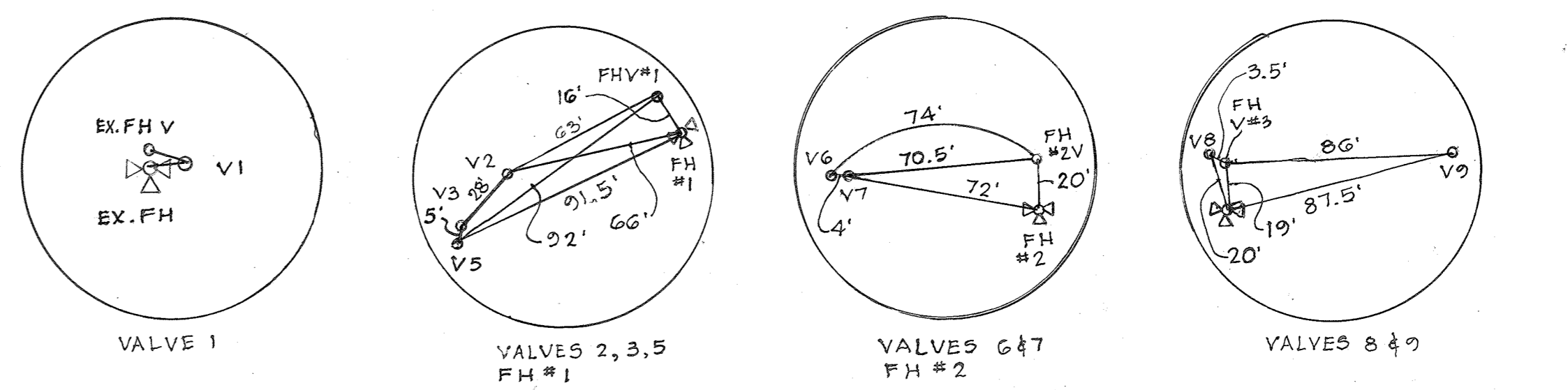
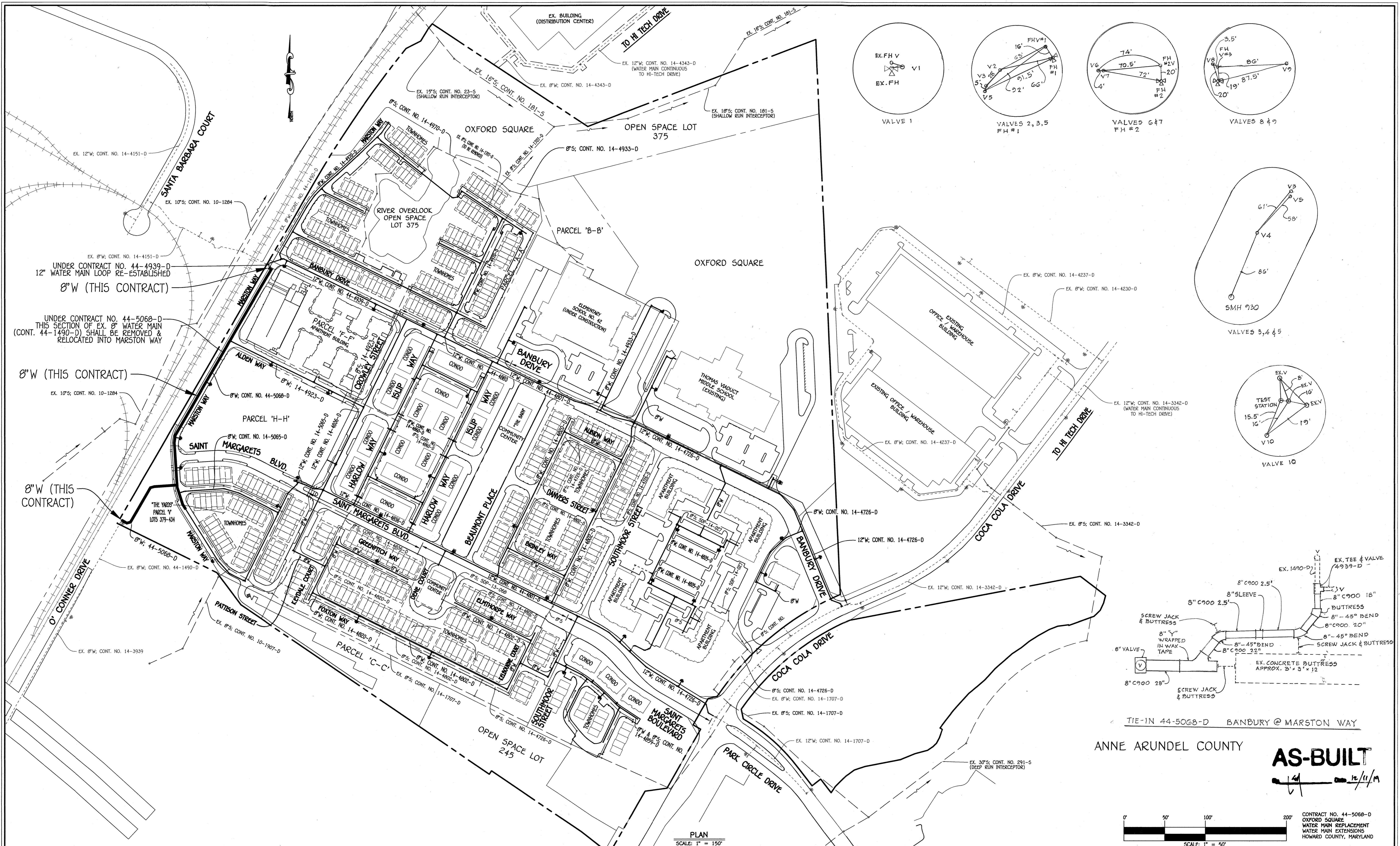
WATER MAIN EXTENSIONS PROFILES, CHARTS & NOTES

600' SCALE MAP NO. 38 BLOCK NO. 19 & 20
F.C.C. WORK ORDER NO. 09014-3023

FILE NAME: WATER MAIN EXTENSIONS PLAN

OXFORD SQUARE WATER MAIN REPLACEMENT
WATER MAIN EXTENSIONS
CONTRACT NO. 44-5068-D
FIRST ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
SHEET 3 OF 5



DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND

4/26/19

5-28-19

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 7/18/20.

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CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTRAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
ELLSWORTH CITY, MARYLAND 21042
4101 461 - 2995

DESIGNED BY: B.C.R.
DRAWN BY: B.C.R.
CHECKED BY: P.W.K.
DATE: APRIL 2019

SEWER & WATER MAIN EXTENSIONS OVERVIEW

60' SCALE MAP NO. 30 BLOCK NO. 19 & 20
F.C.C. WORK ORDER NO. 09014-3023

FILE NAME: WATER MAIN EXTENSIONS PLAN

OXFORD SQUARE
WATER MAIN REPLACEMENT
WATER MAIN EXTENSIONS
CONTRACT NO. 44-5068-D
FIRST ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
SHEET 5 OF 5

I:\2019\09014\DWG\Water & Sewer\Contract\Plan - Sheet 5.dwg, 4/25/2019 3:27:29 PM, Uprains 1500 (Temporary).pc3