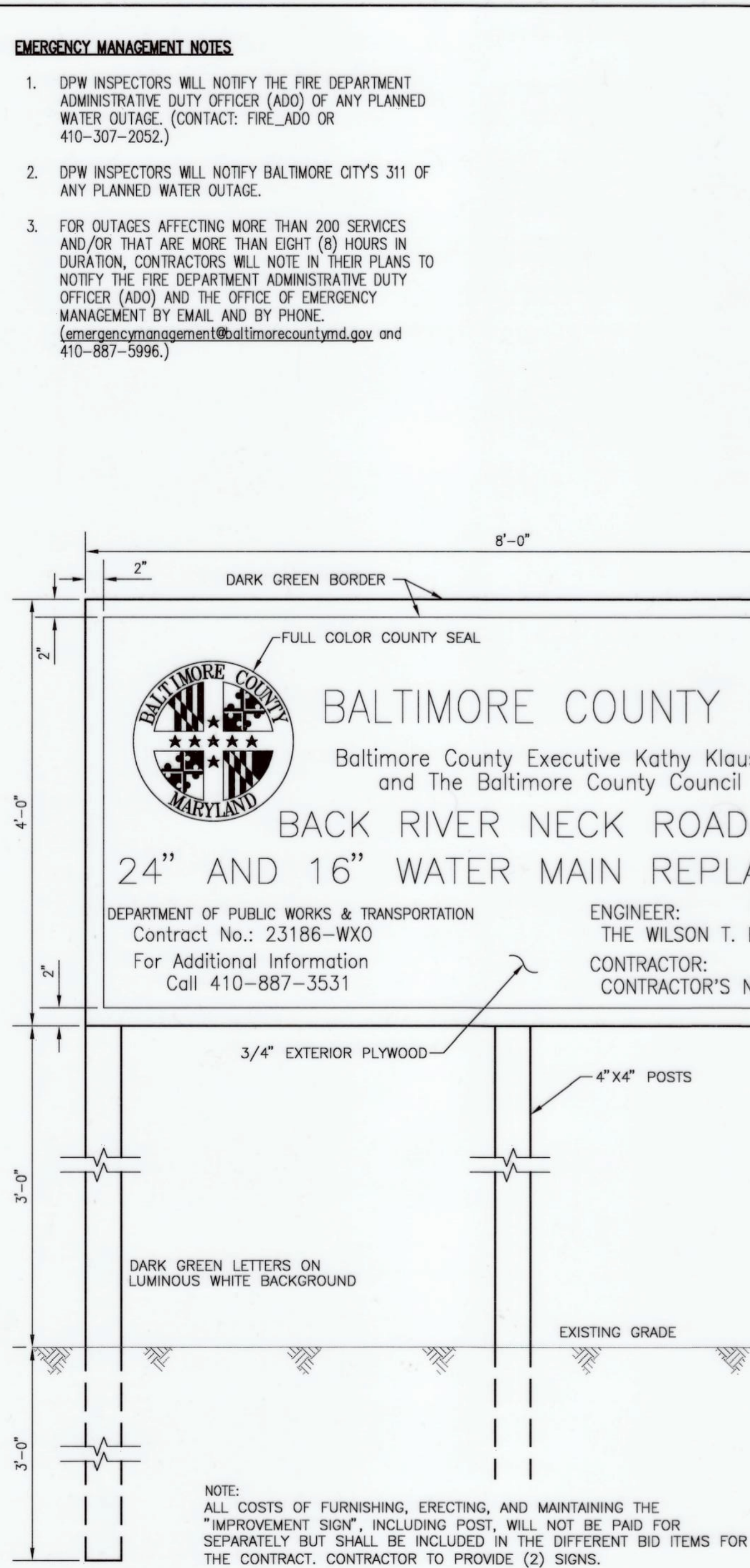


TOTAL BILL OF MATERIALS		
NO.	DESCRIPTION	SIZE
2913 L.F.	DUCTILE IRON PIPE	24"
2325 L.F.	DUCTILE IRON PIPE	16"
169 L.F.	DUCTILE IRON PIPE	12"
4805 L.F.	DUCTILE IRON PIPE	8"
3235 L.F.	DUCTILE IRON PIPE	6"
149 L.F.	COPPER	2"
81 L.F.	COPPER	1 1/2"
125 L.F.	COPPER	1"
106 L.F.	COPPER	3/4"
37 EA.	TAP AND CORP STOP	3/4"
5 EA.	TAP AND CORP STOP	1"
3 EA.	TAP AND CORP STOP	1 1/2"
4 EA.	TAP AND CORP STOP	2"
9 EA.	1/8 BEND	24"
2 EA.	1/32 BEND	24"
9 EA.	1/8 BEND	16"
4 EA.	1/32 BEND	16"
4 EA.	1/8 BEND	12"
5 EA.	1/16 BEND	12"
27 EA.	1/8 BEND	8"
9 EA.	1/16 BEND	8"
4 EA.	1/32 BEND	8"
8 EA.	1/8 BEND	6"
3 EA.	1/16 BEND	6"
3 EA.	1/8 BEND	4"
3 EA.	1/16 BEND	4"
1 EA.	CROSS	24"X8"
8 EA.	TEE	24"X8"
9 EA.	TEE	24"X6"
3 EA.	TEE	24"X4"
3 EA.	TEE	16"X12"
2 EA.	TEE	16"X8"
4 EA.	TEE	16"X6"
1 EA.	REDUCER	24"X16"
2 EA.	VALVE AND VAULT	24"
1 EA.	VALVE AND VAULT	16"
3 EA.	VALVE AND VAULT	12"
10 EA.	VALVE AND VAULT	8"
15 EA.	VALVE AND VAULT	6"
3 EA.	VALVE AND VAULT	4"
11 EA.	FIRE HYDRANT	-
1 EA.	WYE	24"X24"
1 EA.	WYE	24"X16"
3 EA.	WYE	12"X12"
10 EA.	WYE	8"X8"
4 EA.	WYE	6"X6"
3 EA.	WYE	4"X4"
1 EA.	CAP	24"
3 EA.	CAP	16"
7 EA.	CAP	12"
10 EA.	CAP	8"
4 EA.	CAP	6"
3 EA.	CAP	4"
1 EA.	PLUG	24"
1 EA.	PLUG	16"
3 EA.	PLUG	12"
10 EA.	PLUG	8"
4 EA.	PLUG	6"
3 EA.	PLUG	4"
2 EA.	SLEEVE	24"
2 EA.	SLEEVE	16"
3 EA.	SLEEVE	12"
10 EA.	SLEEVE	8"
4 EA.	SLEEVE	6"
3 EA.	SLEEVE	4"
2 EA.	SPACER	24"
2 EA.	SPACER	16"
3 EA.	SPACER	12"
10 EA.	SPACER	8"
4 EA.	SPACER	6"
3 EA.	SPACER	4"
1 EA.	DIP TO HDPE ADAPTER	12"
1 EA.	DIP TO PCCP ADAPTER	24"
4505 L.F.	TEMPORARY BY-PASS PIPE	4"
1045 L.F.	TEMPORARY BY-PASS PIPE	2"
280 L.F.	TEMPORARY BY-PASS PIPE	6"
3650 L.F.	TEMPORARY BY-PASS PIPE	8"
3 EA.	TAPPING SLEEVE	8"X6"
3 EA.	TAPPING SLEEVE	24"X6"

HORIZONTAL CONTROL			
TRAVERSE POINT	NORTHING	EASTING	
24	596254.62	1471056.41	
25	596826.06	1470855.65	
26	597673.17	1469934.56	
27	598553.06	1469397.57	
28	599127.32	1468913.97	
29	599698.81	1468492.25	
30	600306.56	1468125.45	
40	597090.33	1470922.88	
41	597455.04	1470331.97	
110	596016.49	1471229.18	
111	596625.65	1470721.84	
113	598057.99	1469744.78	
114	598338.86	1469460.88	
115	598865.53	1469105.95	
116	599272.01	1468829.28	
117	599803.18	1468421.37	
118	600094.62	1468318.91	
124	597435.37	1470113.95	
125	597169.37	1470331.31	
127	596694.19	1471383.42	
743	597567.22	1470987.01	
744	597738.85	1471919.80	
745	595447.22	1471577.81	
4 EA.	1/16 BEND	6"	

- MOE NOTES:**
- DISINFECTATION OF MAINS AND BACTERIOLOGICAL SAMPLING REQUIREMENTS.
 - FOR ALL BALTIMORE COUNTY CAPITAL PROJECTS, WATER TESTING SHALL BE PERFORMED BY BALTIMORE CITY PERSONNEL.
 - THE COMPLETED WATER MAINS SHOULD BE DISINFECTED AND TESTED IN ACCORDANCE WITH THE LATEST VERSION OF AWWA STANDARD C651.
 - AFTER DISINFECTING, A SAMPLE SHALL BE COLLECTED AFTER THE REQUIRED MINIMUM TIME PERIOD. SAMPLES MUST BE COLLECTED BY A STATE-CERTIFIED SAMPLER AND ANALYZED AT A STATE-CERTIFIED LABORATORY. THE SAMPLE RESULTS MUST BE REVIEWED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT WATER SUPPLY PROGRAM, WHICH WILL GIVE AUTHORIZATION TO PLACE THE MAINS INTO SERVICE.
 - A COPY OF THE SAMPLE RESULTS SHALL BE SENT VIA EMAIL TO: GAVIN.COURTRIGHT@MARYLAND.GOV AND WATERSUPPLY.SAMPLERESULTS@MARYLAND.GOV
 - NSF NOTE:
 - IN ACCORDANCE WITH CODE OF MARYLAND REGULATIONS (COMAR) 26.04.01.33, DIRECT AND INDIRECT ADDITIVES, SUPPLIERS OF WATER SHALL ONLY USE PRODUCTS (ANY MATERIALS THAT COME IN CONTACT WITH WATER INTENDED FOR USE IN PUBLIC WATER SUPPLY) THAT MEET THE APPLICABLE AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) INTERNATIONAL (ANSI/NSF) STANDARDS FOR DIRECT OR INDIRECT DRINKING WATER ADDITIVES. THE PRODUCTS CAN ALSO BE CERTIFIED BY AN ORGANIZATION ACCREDITED BY THE ANSI FOR SUCH TESTING (I.E., INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS RESEARCH AND TESTING, ONTARIO CA, UNDERWRITERS LABORATORY, NORTHBOOK IL, AND WATER QUALITY ASSOCIATION, LISLE IL).
 - LEAD-FREE MATERIAL NOTE:
 - IN COMPLIANCE WITH COMAR 09.20.01.03 AND THE SAFE DRINKING WATER ACT (SECTION 1417(A)(4)(B)), MATERIALS THAT COME IN CONTACT WITH WATER INTENDED FOR USE IN PUBLIC WATER SUPPLY SHALL COMPLY WITH THE REDUCTION OF LEAD IN DRINKING WATER ACT, WHICH WENT INTO EFFECT IN MARYLAND IN JANUARY 2021.

- BGE UTILITY NOTES:**
- DEPICTIONS OF BALTIMORE GAS AND ELECTRIC COMPANY'S (BGE) ELECTRIC AND/OR GAS UTILITIES LOCATED WITHIN THE PROJECT AREA (BGE UTILITY INFORMATION), LOCATIONS, DIMENSIONS, DEPTHS, AND OTHER DETAILS OF ANY SUCH UTILITIES MAY NOT BE AS-BUILT, AND THE INFORMATION SHALL BE REIED UPON WITHOUT FIELD VERIFICATION. EXCAVATORS MUST DEPLOY SAFE DIGGING BEST PRACTICES WHEN APPROACHING BGE ELECTRIC AND GAS UTILITIES AND COMPLY WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, INCLUDING BUT NOT LIMITED TO THE "MISS UTILITY LAW".
 - NO REPRESENTATIVES, GUARANTEES, OR WARRANTIES, EXPRESS OR IMPLIED ARE MADE BY BGE AS TO THE QUALITY, COMPLETENESS, OR ACCURACY OF THE BGE UTILITY INFORMATION, AND IN ACCEPTING THE DOCUMENT, THE RECIPIENT EXPRESSLY ACKNOWLEDGES AND AGREES THAT IT IS NOT RELYING ON THE ACCURACY OF THE SAME.
- SANITARY NOTES:**
- CHLORINATED WATER DISCHARGES TO THE 8-INCH SEWERS LOCATED IN THE AREA WILL BE LIMITED TO A RATE NOT TO EXCEED 50 GALLONS PER MINUTE (GPM).
 - FEDERAL REGULATION REQUIRES DOCUMENTATION OF ANY DISCHARGE FROM THE SANITARY SEWER COLLECTION SYSTEM AND THE CAUSE OF THE DISCHARGE. TO MEET THESE REQUIREMENTS, THE DATE, RATE AND DURATION OF CHLORINATED WATER DISCHARGE SHALL BE DOCUMENTED BY THE CONTRACTOR AND/OR INSPECTOR. DOCUMENTATION WILL BE SUBMITTED TO THE SEWER DESIGN SECTION FOLLOWING THE COMPLETION OF ALL CHLORINATED WATER DISCHARGES.
 - ALL DISCHARGES WILL BE RESTRICTED TO DRY WEATHER AND NOT LESS THAN 24 HOURS AFTER ANY RAIN EVENT.
 - ONE (1) BUSINESS DAY PRIOR TO DISCHARGE OF ANY CHLORINATED WATER TO THE SANITARY SEWER, THE CONTRACTOR SHALL NOTIFY THE SEWER DESIGN SECTION AT 410-887-3781 AND THE BUREAU OF UTILITIES AT 410-887-7415 OF THE EXACT LOCATION OF THE PLANNED DISCHARGE. THIS WILL ALLOW THE REMOVAL, AT THEIR DISCRETION, OF ANY FLOW MONITORING EQUIPMENT LOCATED WITHIN THE SANITARY SYSTEM AND GIVE NOTICE IN THE EVENT OF ANY SEWER BACKUPS OR OVERFLOWS CAUSED BY SUCH DISCHARGES.



BENCHMARK (VERTICAL CONTROL)				
BENCHMARK	NORTHING	EASTING	ELEVATION	PHYSICAL DESCRIPTION
BM 'M'	596197.55	1471126.06	28.27	BOX CUT TC IN FRONT OF F.H.
BM 'N'	596896.70	1470634.83	24.39	BOX CUT TC @ CORNER OF TRANSFORMER PAD
BM 'O'	597477.57	1470173.62	31.22	BOX CUT TC @ CORNER OF ROYAL FARMS DUMPSTER
BM 'P'	598015.99	1469672.21	36.24	BOX CUT TC @ END OF SIDEWALK
BM 'Q'	598881.94	1469081.34	38.78	BOX CUT TC @ END OF SIDEWALK
BM 'R'	598863.85	1469086.21	30.69	BOX CUT TC
BM 'S'	600003.33	1468296.84	31.32	BOX CUT TC

LEGEND

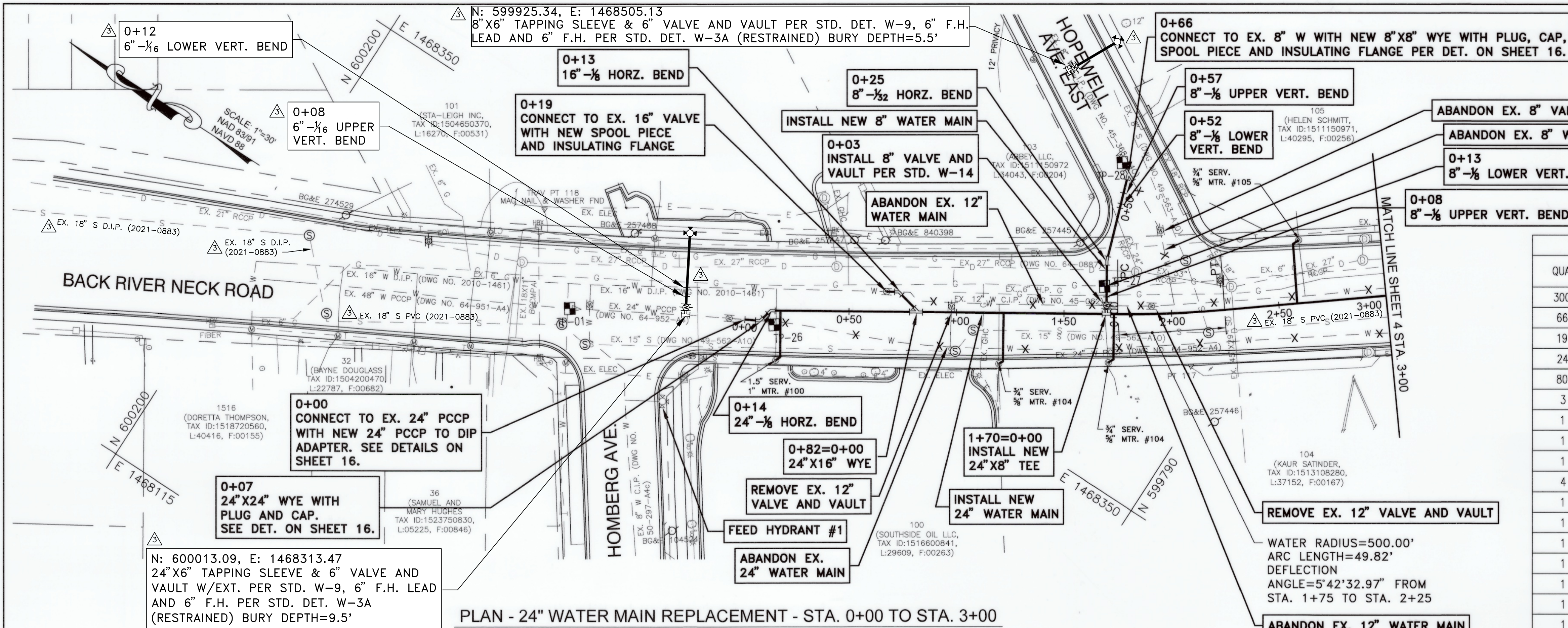
TP	TEST PIT
PC	PAVEMENT CORE
SB	SOIL BORING
EX. 12" W C.I.P. (DRWG# 400731)	EXISTING WATER MAIN
PROP. 20" W D.I.P.	PROPOSED WATER MAIN
[Symbol]	PROPOSED FIRE HYDRANT
[Symbol]	PROPOSED WATER VALVE & TEE
[Symbol]	PIPE TO BE ABANDONED
[Symbol]	EXISTING ABANDONED MAIN
[Symbol]	EXISTING SANITARY SEWER
[Symbol]	EXISTING SANITARY MANHOLE
[Symbol]	EXISTING STORM DRAIN
[Symbol]	EXISTING STORM DRAIN MANHOLE
[Symbol]	EXISTING ELECTRIC SERVICE
[Symbol]	EXISTING GAS
[Symbol]	EXISTING FIBER OPTIC
[Symbol]	EXISTING TELEPHONE
[Symbol]	EXISTING CABLE TELEVISION
[Symbol]	EXISTING STORM DRAIN INLET
[Symbol]	EXISTING FIRE HYDRANT
[Symbol]	EXISTING GAS VALVE

CITY OF BALTIMORE
REVISION - CITY OF BALTIMORE
SEE DRAWING 2023-2704 FOR ORIGINAL SIGNATURES

SEAL	PROFESSIONAL CERTIFICATION	REVISION	BY	DATE	P.W.A. NO.	KEY SHEET	POSITION SHIT	DRAWING SCALE	DPW & TRANSPORTATION
	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. 20615, EXPIRATION DATE: 10/21/26 ENGINEER: SHAWN BURNETT THE WILSON T. BALLARD CO. AS-BUILT PER RECORD PRINT BY: [Signature] DATE: 7-9-2025	ADDENDUM 1	WTB	9/24/23				1"=30'	SEE DRAWING 2023-2704 FOR ORIGINAL SIGNATURES BALTIMORE COUNTY DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION BUREAU OF ENGINEERING & CONSTRUCTION 24-INCH AND 16-INCH WATER MAIN REPLACEMENT - PHASE 3 BACK RIVER NECK ROAD FROM HOMBERG AVENUE TO NORTH OF HYDE PARK ROAD BILL OF MATERIALS, HORZ./VERT. CONTROL, ADDITIONAL NOTES SUBDIVISION: BACK RIVER NECK
		ADDENDUM 3	WTB	2/2/26	R.O.W. NO.				
		Contract Completion Box							SEE DRAWING 2023-2704 FOR ORIGINAL SIGNATURES
		BUREAU OF ENGINEERING AND CONSTRUCTION							SEE DRAWING 2023-2704 FOR ORIGINAL SIGNATURES
		BUILDINGS							
		HIGHWAYS							
		STRUCTURES							
		STORM DRAINS							
		SEWER							
		WATER							
		FIELD ENGINEER							
		BUR. OF ENGINEERING & CONSTRUCTION							

CONTRACT COMPLETION BOX	
CONTRACTOR:	
DATE COMPLETED:	
INSPECTOR:	
PIPE MATERIAL:	
CATHODIC PROTECTION SYSTEM METHOD (POTABLE WATER ONLY):	
<input type="checkbox"/> BONDED COATED PIPE	PIPE DIAMETER(S):
<input type="checkbox"/> N/A - ZINC COATED PIPE	PIPE DIAMETER(S):
<input type="checkbox"/> WITH POLYETHYLENE ENCASEMENT	PIPE DIAMETER(S):
<input type="checkbox"/> OTHER (SPECIFY):	PIPE DIAMETER(S):
SHEET DESIGNATION: WATER SH 2 OF 18	
CONTRACT NUMBER: 23186-WXO	
JOB ORDER NUMBER: 231-203-0067-0783	
SHEET 2 OF 44	
DRAWING NUMBER: 2023-2705	
FILE NO.:	

DWG. FILENAME: T:\Baltimore County Utilities\800-122.03 Back River Neck Road Phase 3\DWG\SG\N000-BRNR-ADDENDUM 3.dwg



PLAN - 24" WATER MAIN REPLACEMENT - STA. 0+00 TO STA. 3+00

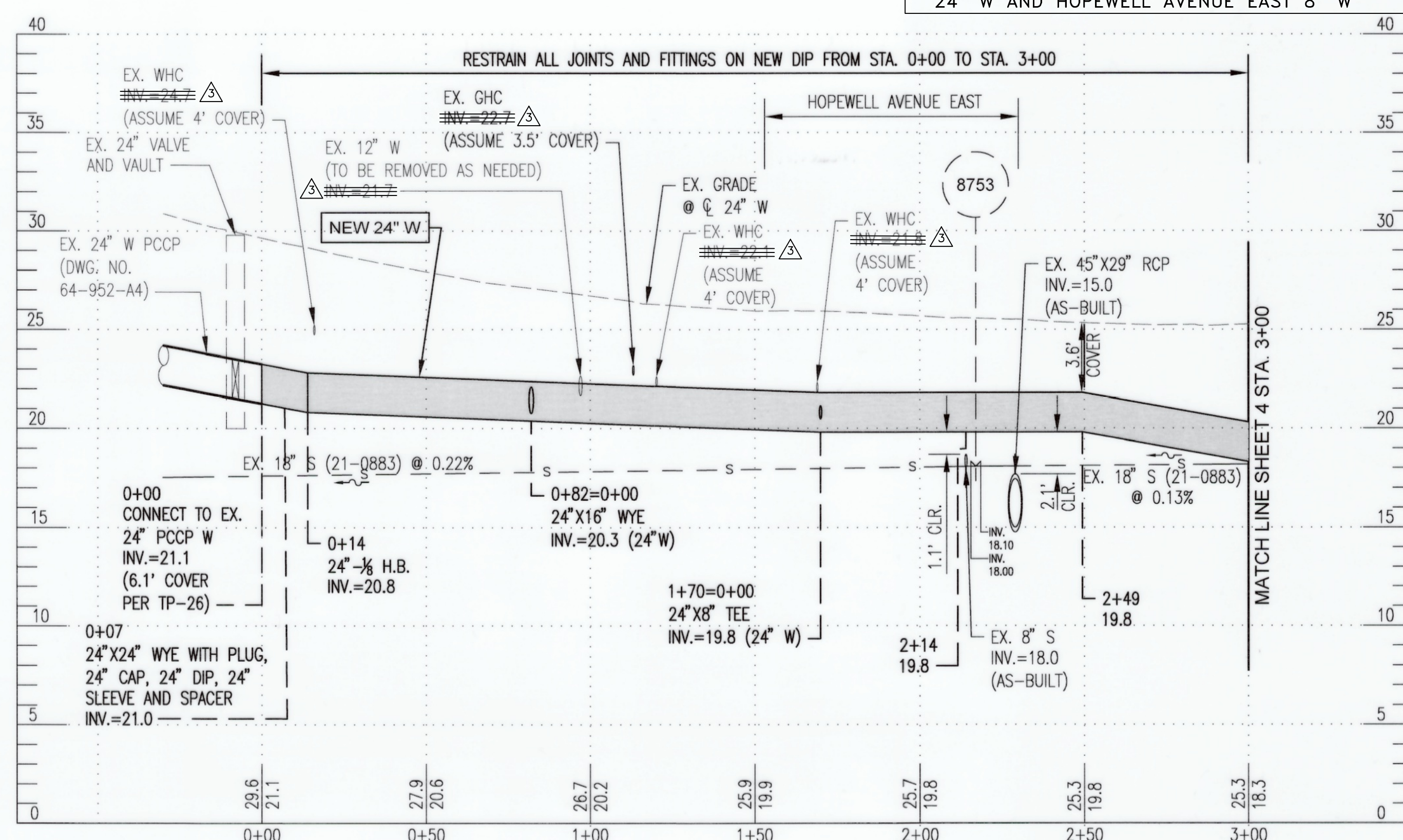
EXISTING TEST PITS						
TEST PIT NO.	NORTHING	EASTING	GROUND ELEV.	UTILITY	COVER	TOP ELEV.
1	592229.13	1474003.25	32.77	48" W	7.17	25.60
26	600059.71	1468286.71	29.53	24" W	6.12	23.41
27	599856.95	1468460.46	26.51	6" G	4.01	22.50
28	599881.19	1468482.67	26.20	8" W	4.37	21.83

WATER STAKEOUT TABLE BACK RIVER NECK ROAD 24" W/16" W		
STATION	NORTHING	EASTING
0+00 (CONNECT TO EX. 24" W)	599988.68	1468326.77
0+07 (WYE)	599982.52	1468330.10
0+14 (24"-1/8 HORZ. BEND)	599980.79	1468336.75
0+82 (24"x16" WYE)	599922.92	1468373.45
1+70 (24"x8" TEE)	599851.22	1468423.29
1+75 (PC)	599844.79	1468422.99
2+25 (PT)	599804.12	1468451.73
2+49 (PC)	599801.39	1468313.47

BILL OF MATERIALS		
QUANTITY	DESCRIPTION	SIZE
300 L.F.	DUCTILE IRON PIPE	24"
66 L.F.	DUCTILE IRON PIPE	8"
19 L.F.	DUCTILE IRON PIPE	16"
24 L.F.	COPPER	1 1/2"
80 L.F.	COPPER	3/4"
3 EA.	TAP AND CORP STOP	3/4"
1 EA.	TAP AND CORP STOP	1 1/2"
1 EA.	1/8 BEND	24"
1 EA.	1/8 BEND	16"
4 EA.	1/8 BEND	8"
1 EA.	1/32 BEND	8"
1 EA.	TEE	24"x8"
1 EA.	VALVE AND VAULT	8"
1 EA.	WYE	24"x24"
1 EA.	WYE	24"x16"
1 EA.	WYE	8"x8"
1 EA.	CAP	24"
1 EA.	CAP	16"
1 EA.	CAP	8"
1 EA.	PLUG	24"
1 EA.	PLUG	16"
1 EA.	PLUG	8"
1 EA.	SLEEVE	24"
1 EA.	SLEEVE	16"
1 EA.	SLEEVE	8"
1 EA.	SPACER	24"
1 EA.	SPACER	16"
1 EA.	SPACER	8"
1 EA.	DIP TO PCCP ADAPTER	24"

WATER STAKEOUT TABLE HOPEWELL AVENUE EAST 8" W		
STATION	NORTHING	EASTING
0+00 (24"x8" TEE)	599851.22	1468423.29
0+03 (8" VALVE AND VAULT)	599850.87	1468422.70
0+08 (8"-1/8 UPPER VERT. BEND)	599853.55	1468426.92
0+13 (8"-1/8 LOWER VERT. BEND)	599856.23	1468431.14
0+25 (8"-1/32 HORZ. BEND)	599862.50	1468441.04
0+52 (8"-1/8 LOWER VERT. BEND)	599871.45	1468466.81
0+57 (8"-1/8 UPPER VERT. BEND)	599873.74	1468473.42
0+66 (WYE)	599876.19	1468480.47
8"x6" T.S.&V.	599925.34	1468505.13

WATER STAKEOUT TABLE (SEE SHEET 4) HOPEWELL AVENUE WEST 8" W		
STATION	NORTHING	EASTING
0+00 (24"x8" TEE)	599880.86	1468546.36
0+03 (8" VALVE AND VAULT)	599879.01	1468545.99
0+05 (8"-1/8 LOWER VERT. BEND)	599877.77	1468544.42
0+08 (8"-1/8 UPPER VERT. BEND)	599875.92	1468542.06
0+39 (8"-1/16 UPPER VERT. BEND)	599656.80	1468517.67
0+43 (8"-1/16 LOWER VERT. BEND)	599654.33	1468514.52
0+46 (8"-1/8 HORZ. BEND)	599652.70	1468512.44
0+57 (WYE)	599653.68	1468501.02



PROFILE OF 24" W - STA. 0+00 TO STA. 3+00

- RESTRAIN ALL PIPE JOINTS AND FITTINGS ON NEW 24" W FROM STA. 0+00 TO STA. 3+00
- RESTRAIN ALL PIPE JOINTS AND FITTINGS ON NEW 8" W FROM STA. 0+00 TO STA. 0+66
- RESTRAIN ALL PIPE JOINTS AND FITTINGS ON NEW 16" W FROM STA. 0+00 TO STA. 0+19
- SEE SHEET 11 FOR PROFILE OF 8" WATER FOR HOPEWELL AVENUE (EAST)
- SEE SHEET 11 FOR PROFILE OF 16" WATER INTERCONNECT

- ABANDONING NOTES**
- ABANDON APPROX. 295 L.F. OF EX. 24" W IN PLACE ALONG BACK RIVER NECK ROAD RIGHT OF 24" W STA. 0+00 TO STA. 3+00 (AS NOTED X)
 - ABANDON APPROX. 215 L.F. OF EX. 12" W IN PLACE ALONG BACK RIVER NECK ROAD LEFT OF 24" W STA. 0+00 TO STA. 3+00 (AS NOTED X)
 - ABANDON APPROX. 65 L.F. OF EX. 8" W IN PLACE ALONG HOPEWELL AVENUE EAST RIGHT OF 8" W STA. 0+00 TO STA. 0+66 (AS NOTED X)

QUANTITY	DESCRIPTION	SIZE
64 L.F.	DUCTILE IRON PIPE	6"
2 EA.	1/16 BEND	6"
1 EA.	TEE	24"x6"
1 EA.	TAPPING SLEEVE	8"x6"
2 EA.	VALVE AND VAULT	6"
2 EA.	FIRE HYDRANT	-

WATER STAKEOUT TABLE 16" W INTERCONNECT COORDINATES		
STATION	NORTHING	EASTING
0+00 (24"x16" WYE)	599922.92	1468373.45
0+13 (16"-1/8 HORZ. BEND)	599935.73	1468376.31
0+19 (CONNECT TO EX.)	599940.61	1468373.33

VERTICAL CONTROL		
BM 'S'	BOX CUT TC	ELEV.=31.32

HORIZONTAL CONTROL		
TRAVERSE POINT	NORTHING	EASTING
117	599803.18	1468421.37
118	600094.62	1468318.91

WATER STAKEOUT TABLE (SEE SHEET 4) 6" WHC STA. 6+76		
STATION	NORTHING	EASTING
0+00 (24"x6" TEE)	599449.18	1468730.29
0+03 (6" VALVE AND VAULT)	599447.28	1468727.99
0+09 (6"-1/16 LOWER VERT. BEND)	599443.56	1468723.26
0+13 (6"-1/16 UPPER VERT. BEND)	599441.07	1468720.13
0+16 (6"-1/8 HORZ. BEND)	599438.89	1468717.42
0+22 (WYE)	599432.66	1468716.69

CONTRACT COMPLETION BOX		
CONTRACTOR:		
DATE COMPLETED:		
INSPECTOR:		
PIPE MATERIAL:		
CATHODIC PROTECTION SYSTEM METHOD (POTABLE WATER ONLY):		
<input type="checkbox"/> BONDED COATED PIPE	PIPE DIAMETER(S):	
<input type="checkbox"/> N/A - ZINC COATED PIPE	PIPE DIAMETER(S):	
<input type="checkbox"/> WITH POLYETHYLENE ENCASMENT	PIPE DIAMETER(S):	
<input type="checkbox"/> OTHER (SPECIFY):	PIPE DIAMETER(S):	

CITY OF BALTIMORE		REVISION - CITY OF BALTIMORE	
SEE DRAWING 2023-2704 FOR ORIGINAL SIGNATURES			
SEAL	PROFESSIONAL CERTIFICATION	REVISION	BY DATE P.W.A. NO. KEY SHEET POSITION SH# DRAWING SCALE DPW & TRANSPORTATION
	I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 20915 EXPIRATION DATE 10/21/26	ADDENDUM 3	WTB 2/2/26
	ENGINEER: SHAWN BURNETT THE WILSON T. BALLARD CO. AS-BUILT PER RECORD PRINT BY: DATE:	DESIGN BY: DS DRAWN BY: TL CHECK BY: SB	BUREAU OF ENGINEERING AND CONSTRUCTION BUILDINGS HIGHWAYS STRUCTURES STORM DRAINS SEWER WATER FIELD ENGINEER

BALTIMORE COUNTY DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION BUREAU OF ENGINEERING & CONSTRUCTION

24-INCH AND 16-INCH WATER MAIN REPLACEMENT - PHASE 3

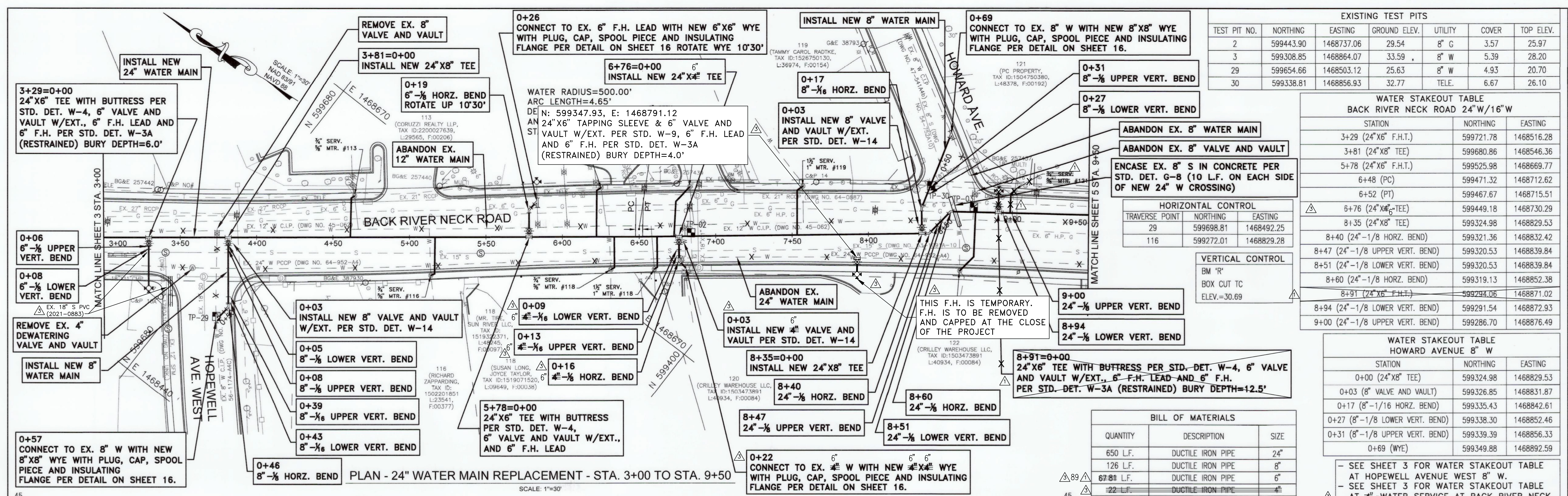
BACK RIVER NECK ROAD

FROM HOMBERG AVENUE TO NORTH OF HYDE PARK ROAD

PROP. 24" WATER MAIN PLAN (STA. 0+00 TO STA. 3+00)

SUBDIVISION: BACK RIVER NECK ELECTION DIST. NO.: 15C7

SHEET DESIGNATION	CONTRACT NUMBER
WATER SH 3 OF 18	23186-WXO
JOB ORDER NUMBER	
231-203-0067-0783	
SHEET 3 OF 44	
DRAWING NUMBER	
2023-2706	
FILE NO.:	



TEST PIT NO.	NORTHING	EASTING	GROUND ELEV.	UTILITY	COVER	TOP ELEV.
2	599443.90	1468737.06	29.54	8" G	3.57	25.97
3	599308.85	1468864.07	33.59	8" W	5.39	28.20
29	599654.66	1468503.12	25.63	8" W	4.93	20.70
30	599338.81	1468856.93	32.77	TELE.	6.67	26.10

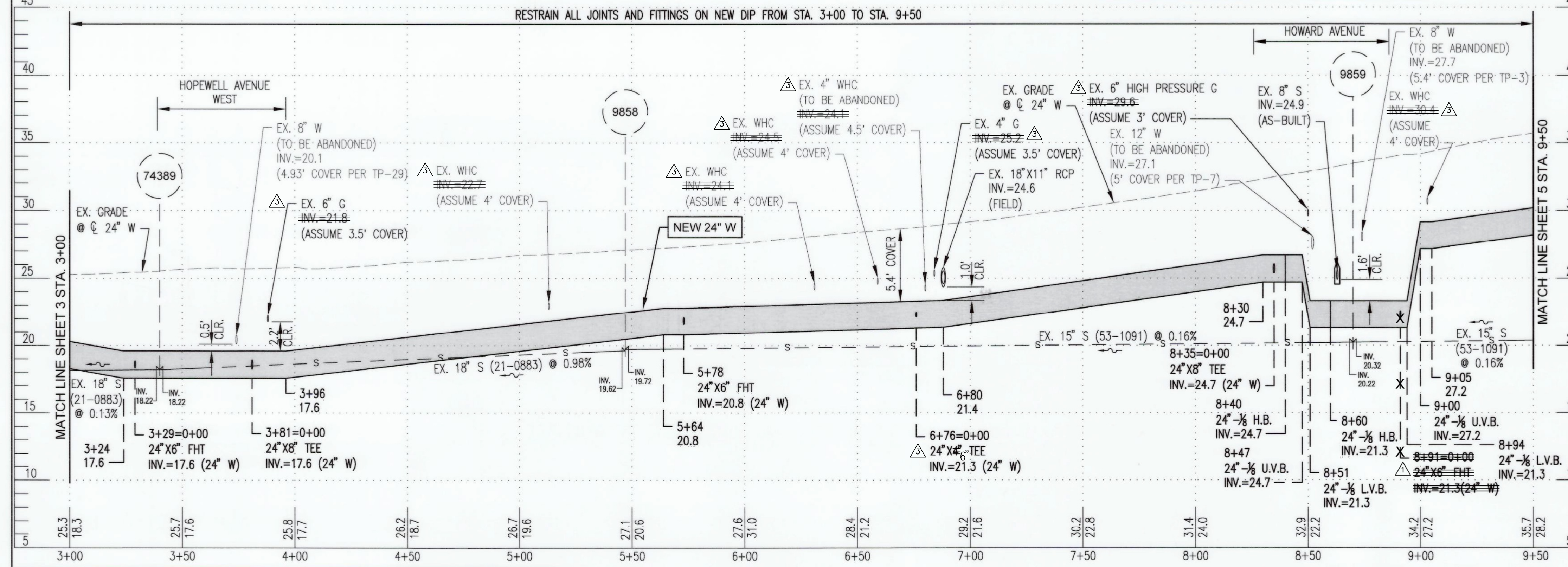
STATION	NORTHING	EASTING
3+29 (24"X8" F.H.T.)	599721.78	1468516.28
3+81 (24"X8" TEE)	599680.86	1468546.36
5+78 (24"X6" F.H.T.)	599525.98	1468669.77
6+48 (PC)	599471.32	1468712.62
6+52 (PT)	599467.67	1468715.51
6+76 (24"X6" TEE)	599449.18	1468730.29
8+35 (24"X8" TEE)	599324.98	1468829.53
8+40 (24"-1/8" HORZ. BEND)	599321.36	1468832.42
8+47 (24"-1/8" HORZ. BEND)	599320.53	1468839.84
8+51 (24"-1/8" LOWER VERT. BEND)	599320.53	1468839.84
8+60 (24"-1/8" HORZ. BEND)	599319.13	1468852.38
8+91 (24"X6" F.H.T.)	599294.06	1468871.02
8+94 (24"-1/8" LOWER VERT. BEND)	599291.54	1468872.93
9+00 (24"-1/8" UPPER VERT. BEND)	599286.70	1468876.49

STATION	NORTHING	EASTING
0+00 (24"X8" TEE)	599324.98	1468829.53
0+03 (8" VALVE AND VAULT)	599326.85	1468831.87
0+17 (8"-1/16" HORZ. BEND)	599335.43	1468842.61
0+27 (8"-1/8" LOWER VERT. BEND)	599338.30	1468852.46
0+31 (8"-1/8" UPPER VERT. BEND)	599339.39	1468856.33
0+69 (WYE)	599349.88	1468892.59

QUANTITY	DESCRIPTION	SIZE
650 L.F.	DUCTILE IRON PIPE	24"
126 L.F.	DUCTILE IRON PIPE	8"
22 L.F.	DUCTILE IRON PIPE	6"
67 L.F.	COPPER	2"
57 L.F.	COPPER	1 1/2"
120 L.F.	COPPER	3/4"
4 EA.	TAP AND CORP STOP	3/4"
2 EA.	TAP AND CORP STOP	1 1/2"
2 EA.	TAP AND CORP STOP	2"
6 EA.	1/8 BEND	24"
5 EA.	1/8 BEND	8"
3 EA.	1/16 BEND	8"
4 EA.	1/8 BEND	6"
1 EA.	1/8 BEND	4"
2 EA.	1/16 BEND	4"
2 EA.	TEE	24"X8"
3 EA.	TEE	24"X6"
1 EA.	TEE	24"X4"
2 EA.	VALVE AND VAULT	8"
3 EA.	VALVE AND VAULT	6"
1 EA.	VALVE AND VAULT	4"
1 EA.	FIRE HYDRANT	8"X8"
2 EA.	WYE	8"X8"
2 EA.	WYE	6"X6"
1 EA.	WYE	4"X4"
2 EA.	CAP	8"
2 EA.	CAP	6"
1 EA.	CAP	4"
2 EA.	PLUG	8"
2 EA.	PLUG	6"
1 EA.	PLUG	4"
2 EA.	SLEEVE	8"
2 EA.	SLEEVE	6"
1 EA.	SLEEVE	4"
2 EA.	SPACER	8"
2 EA.	SPACER	6"
1 EA.	SPACER	4"

- SEE SHEET 3 FOR WATER STAKEOUT TABLE AT HOPEWELL AVENUE WEST 8" W.
- SEE SHEET 3 FOR WATER STAKEOUT TABLE AT 8" WATER SERVICE AT BACK RIVER NECK ROAD 24" W STA. 6+76
- RESTRAIN ALL PIPE JOINTS AND FITTINGS ON NEW 24" W FROM STA. 3+00 TO STA. 9+50
- RESTRAIN ALL PIPE JOINTS AND FITTINGS ON NEW 8" W FROM STA. 0+00 TO STA. 0+57
- RESTRAIN ALL PIPE JOINTS AND FITTINGS ON NEW 8" W FROM STA. 0+00 TO STA. 0+69
- SEE SHEET 11 FOR PROFILE OF 8" WATER FOR HOPEWELL AVENUE (WEST), FOR PROFILE OF 8" WATER SERVICE CONNECTION AT BACK RIVER NECK ROAD 24" W STA. 6+76 AND FOR PROFILE OF 8" WATER FOR HOWARD AVENUE.
- SEE SHEET 11 FOR PROFILE OF 6" WATER FOR PROFILE FOR FIRE HYDRANT AT BACK RIVER NECK ROAD 24" W STA. 3+29, STA. 5+78 AND STA. 8+91.

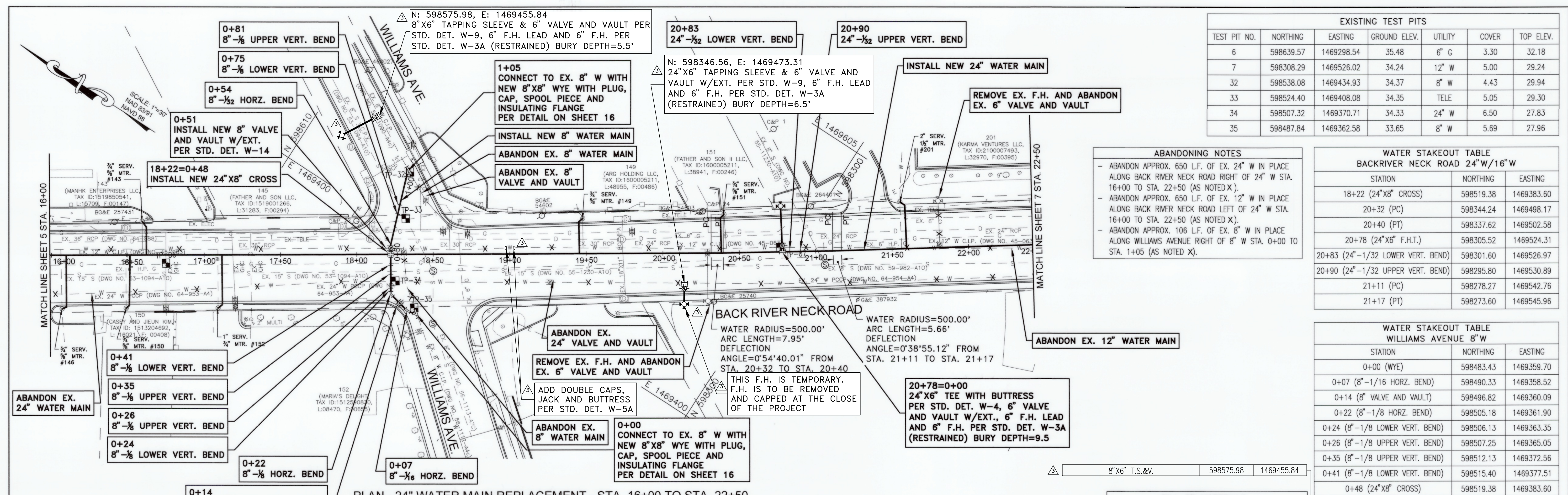
- ABANDON APPROX. 650 L.F. OF EX. 24" W IN PLACE ALONG BACK RIVER NECK ROAD RIGHT OF 24" W STA. 3+00 TO STA. 9+50 (AS NOTED X).
- ABANDON APPROX. 650 L.F. OF EX. 12" W IN PLACE ALONG BACK RIVER NECK ROAD LEFT/RIGHT OF 24" W STA. 3+00 TO STA. 9+50 (AS NOTED X).
- ABANDON APPROX. 58 L.F. OF EX. 8" W IN PLACE ALONG HOPEWELL AVENUE WEST RIGHT OF 8" W STA. 0+00 TO STA. 0+57 (AS NOTED X).
- ABANDON APPROX. 60 L.F. OF EX. 8" W IN PLACE ALONG HOWARD AVENUE RIGHT OF 8" W STA. 0+00 TO STA. 0+69 (AS NOTED X).



STATION	ELEVATION
3+00	25.3
3+50	25.7
4+00	25.8
4+50	26.2
5+00	26.7
5+50	27.1
6+00	27.6
6+50	28.4
7+00	29.2
7+50	30.2
8+00	31.4
8+50	32.9
9+00	34.2
9+50	35.7

CITY OF BALTIMORE		REVISION - CITY OF BALTIMORE						
SEE DRAWING 2023-2704 FOR ORIGINAL SIGNATURES								
SEAL	PROFESSIONAL CERTIFICATION	REVISION	BY DATE P.W.A. NO. KEY SHEET POSITION SHT DRAWING SCALE DPW & TRANSPORTATION					
	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. 20615, EXPIRATION DATE 10/21/26	ADDENDUM 1	WTB 9/24/25					
		ADDENDUM 3	WTB 2/2/26	R.O.W. NO.	1-SE	6NE32	5NE32	1"=30"
ENGINEER: SHAWN BURNETT THE WILSON T. BALLARD CO. AS-BUILT PER RECORD PRINT BY: DATE:	DESIGN BY: DS DRAWN BY: TL CHD BY: SB	BUREAU OF ENGINEERING AND CONSTRUCTION BUILDINGS HIGHWAYS STRUCTURES STORM DRAINS SEWER WATER FIELD ENGINEER	REVIEWED BY: DATE REVIEWED:	SEE DRAWING 2023-2704 FOR ORIGINAL SIGNATURES	SEE DRAWING 2023-2704 FOR ORIGINAL SIGNATURES	BALTIMORE COUNTY DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION BUREAU OF ENGINEERING & CONSTRUCTION 24-INCH AND 16-INCH WATER MAIN REPLACEMENT - PHASE 3 BACK RIVER NECK ROAD FROM HOMBERG AVENUE TO NORTH OF HYDE PARK ROAD PROP. 24" WATER MAIN PLAN (STA. 3+00 TO STA. 9+50) SUBDIVISION: BACK RIVER NECK	SHEET DESIGNATION: WATER SH 4 OF 18 CONTRACT NUMBER: 23186-WXO JOB ORDER NUMBER: 231-203-0067-0783 SHEET 4 OF 44 DRAWING NUMBER: 2023-2707 FILE NO.:	

DWG. FILENAME: T:\Baltimore County Utilities\800-122-03 Back River Neck Road Phase 3\DWG\SPS-0002-BRNR-ADDENDUM 3.dwg



EXISTING TEST PITS						
TEST PIT NO.	NORTHING	EASTING	GROUND ELEV.	UTILITY	COVER	TOP ELEV.
6	598639.57	1469298.54	35.48	6" G	3.30	32.18
7	598308.29	1469526.02	34.24	12" W	5.00	29.24
32	598538.08	1469434.93	34.37	8" W	4.43	29.94
33	598524.40	1469408.08	34.35	TELE	5.05	29.30
34	598507.32	1469370.71	34.33	24" W	6.50	27.83
35	598487.84	1469362.58	33.65	8" W	5.69	27.96

ABANDONING NOTES

- ABANDON APPROX. 650 L.F. OF EX. 24" W IN PLACE ALONG BACK RIVER NECK ROAD RIGHT OF 24" W STA. 16+00 TO STA. 22+50 (AS NOTED X).
- ABANDON APPROX. 650 L.F. OF EX. 12" W IN PLACE ALONG BACK RIVER NECK ROAD LEFT OF 24" W STA. 16+00 TO STA. 22+50 (AS NOTED X).
- ABANDON APPROX. 106 L.F. OF EX. 8" W IN PLACE ALONG WILLIAMS AVENUE RIGHT OF 8" W STA. 0+00 TO STA. 1+05 (AS NOTED X).

WATER STAKEOUT TABLE BACK RIVER NECK ROAD 24" W/16" W		
STATION	NORTHING	EASTING
18+22 (24" X8" CROSS)	598519.38	1469383.60
20+32 (PC)	598344.24	1469498.17
20+40 (PT)	598337.62	1469502.58
20+78 (24" X6" F.H.T.)	598305.52	1469524.31
20+83 (24"-1/32 LOWER VERT. BEND)	598301.60	1469526.97
20+90 (24"-1/32 UPPER VERT. BEND)	598295.80	1469530.89
21+11 (PC)	598278.27	1469542.76
21+17 (PT)	598273.60	1469545.96

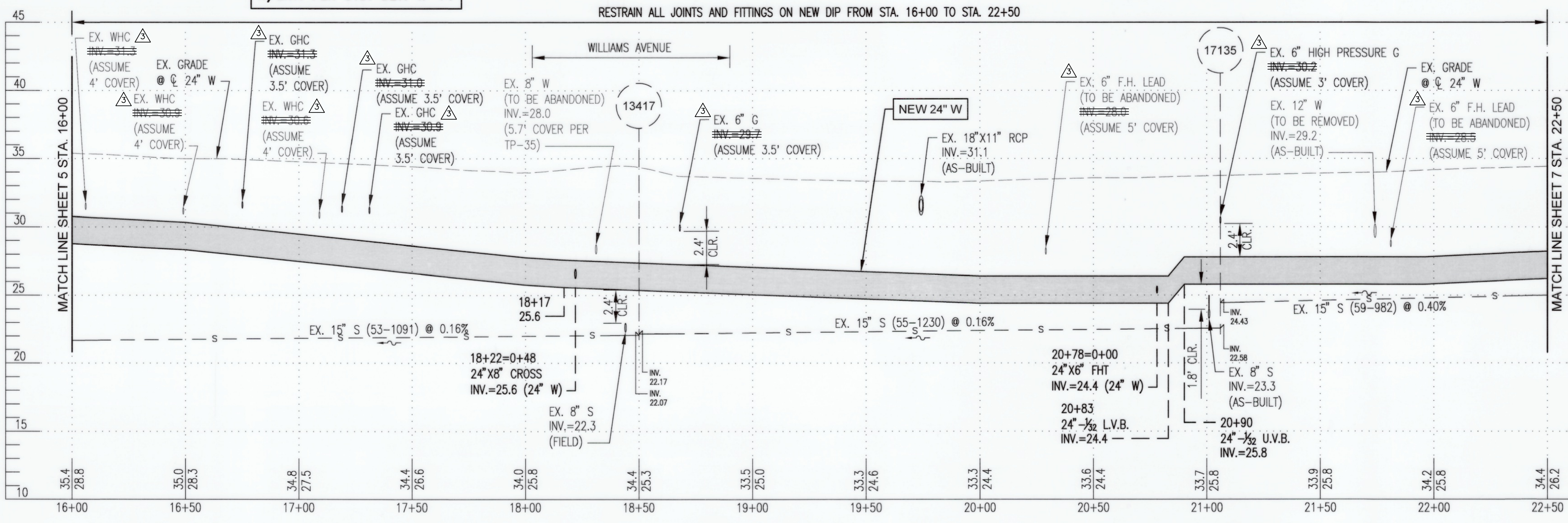
WATER STAKEOUT TABLE WILLIAMS AVENUE 8" W		
STATION	NORTHING	EASTING
0+00 (WYE)	598483.43	1469359.70
0+07 (8"-1/16 HORZ. BEND)	598490.33	1469358.52
0+14 (8" VALVE AND VAULT)	598496.82	1469360.09
0+22 (8"-1/8 HORZ. BEND)	598505.18	1469361.90
0+24 (8"-1/8 LOWER VERT. BEND)	598506.13	1469363.35
0+26 (8"-1/8 UPPER VERT. BEND)	598507.25	1469365.05
0+35 (8"-1/8 UPPER VERT. BEND)	598512.13	1469372.56
0+41 (8"-1/8 LOWER VERT. BEND)	598515.40	1469377.51
0+48 (24" X8" CROSS)	598519.38	1469383.60
0+51 (8" VALVE AND VAULT)	598521.02	1469386.11
0+54 (8"-1/32 HORZ. BEND)	598522.87	1469388.94
0+75 (8"-1/8 LOWER VERT. BEND)	598529.85	1469408.12
0+81 (8"-1/8 UPPER VERT. BEND)	598531.90	1469413.81
1+05 (WYE)	598540.01	1469436.18

BILL OF MATERIALS		
QUANTITY	DESCRIPTION	SIZE
650 L.F.	DUCTILE IRON PIPE	24"
105 L.F.	DUCTILE IRON PIPE	8"
59 L.F.	DUCTILE IRON PIPE	6"
32 L.F.	COPPER	2"
36 L.F.	COPPER	1"
146 L.F.	COPPER	3/4"
5 EA.	TAP AND CORP STOP	3/4"
1 EA.	TAP AND CORP STOP	1"
1 EA.	TAP AND CORP STOP	2"
2 EA.	1/32 BEND	24"
7 EA.	1/8 BEND	8"
1 EA.	1/16 BEND	8"
1 EA.	1/32 BEND	8"
2 EA.	VALVE AND VAULT	8"
2 EA.	VALVE AND VAULT	6"
2 EA.	FIRE HYDRANT	-
2 EA.	WYE	8" X8"
2 EA.	CAP	8"
2 EA.	PLUG	8"
2 EA.	SLEEVE	8"
2 EA.	SPACER	8"
1 EA.	TAPPING SLEEVE	8" X6"
2 EA.	CAP	12"

- RESTRAIN ALL PIPE JOINTS AND FITTINGS ON NEW 24" W FROM STA. 16+00 TO STA. 22+50
- RESTRAIN ALL PIPE JOINTS AND FITTINGS ON NEW 8" W FROM STA. 0+00 TO STA. 1+05

- SEE SHEET 12 FOR PROFILE OF 8" WATER FOR WILLIAMS AVENUE.
- SEE SHEET 12 FOR PROFILE OF 6" WATER FOR PROFILE FOR FIRE HYDRANT AT BACK RIVER NECK ROAD 24" W STA. 20+78

- SEE SHEET 14 FOR PROFILE OF 6" WATER FIRE HYDRANT AT WILLIAMS AVENUE 8" W



PROFILE OF 24" W - STA. 16+00 TO STA. 22+50

CITY OF BALTIMORE	REVISION - CITY OF BALTIMORE
SEE DRAWING 2023-2704 FOR ORIGINAL SIGNATURES	

SEAL	PROFESSIONAL CERTIFICATION	REVISION	BY	DATE	P.W.A. NO.	KEY SHEET	POSITION	SHT	DRAWING SCALE	DPW & TRANSPORTATION
	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. 20615, EXPIRATION DATE 10/21/28.	ADDENDUM 3	WTB	2/2/26		I-SE	4NE33	5NE33	PLAN SCALE: 1"=30'	SEE DRAWING 2023-2704 FOR ORIGINAL SIGNATURES
		BUREAU OF ENGINEERING AND CONSTRUCTION	BUILDINGS	HIGHWAYS	STRUCTURES	STORM DRAINS	SEWER	WATER	FIELD ENGINEER	BUR. OF ENGINEERING & CONSTRUCTION
AS-BUILT PER RECORD PRINT	DRAWN BY: TL	REVIEWED BY:	BY:	DATE:	CHKD BY: SB	DATE REVIEWED:	SEE DRAWING 2023-2704 FOR ORIGINAL SIGNATURES			

BALTIMORE COUNTY DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION BUREAU OF ENGINEERING & CONSTRUCTION

24-INCH AND 16-INCH WATER MAIN REPLACEMENT - PHASE 3

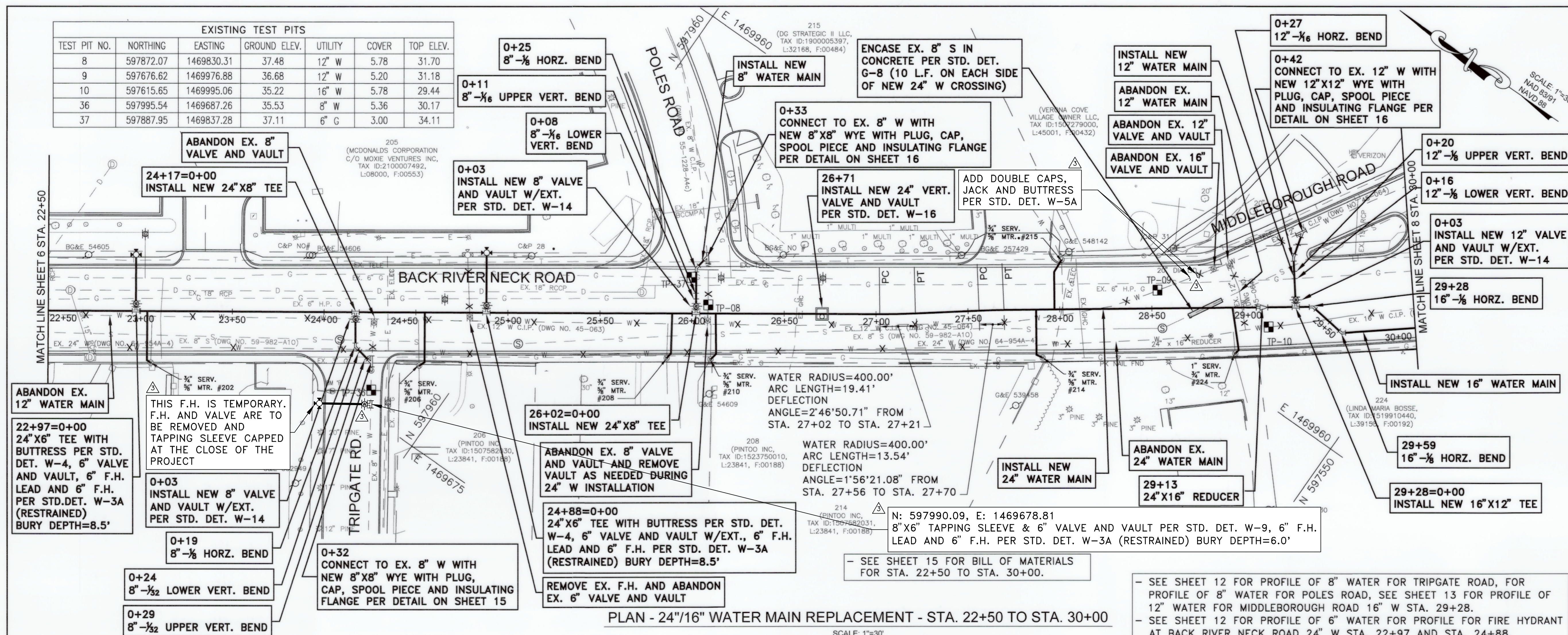
BACK RIVER NECK ROAD

FROM HOMBERG AVENUE TO NORTH OF HYDE PARK ROAD

SUBDIVISION: BACK RIVER NECK PROP. 24" WATER MAIN PLAN (STA. 16+00 TO STA. 22+50) ELECTION DIST. NO.: 15C7

SHEET DESIGNATION	CONTRACT NUMBER
WATER SH 6 OF 18	23186-WXO
JOB ORDER NUMBER	231-203-0067-0783
SHEET 6 OF 44	DRAWING NUMBER
2023-2709	FILE NO.:

DWG. FILENAME: T:\Baltimore County Utilities\000-122-03 Back River Neck Road Phase 3\DWG\PS-004-BRNR-ADDENDUM 3.dwg



STATION	NORTHING	EASTING
22+97 (24"X6" F.H.T.)	598125.17	1469648.94
24+17 (24"X8" TEE)	598026.89	1469717.12
24+88 (24"X6" F.H.T.)	597968.41	1469757.69
26+02 (24"X8" TEE)	597874.73	1469822.68
26+71 (24" VALVE AND VAULT)	597818.61	1469861.62
27+02 (PC)	597792.77	1469879.54
27+21 (PT)	597776.73	1469891.27
27+56 (PC)	597749.63	1469912.09
27+70 (PT)	597738.76	1469920.15
29+13 (24"X16" REDUCER)	597622.18	1470003.60
29+28 (16"X12" TEE)	597609.79	1470012.46
29+38 (16"-1/8" HORZ. BEND)	597602.20	1470017.90
29+59 (16"-1/8" HORZ. BEND)	597581.16	1470015.16

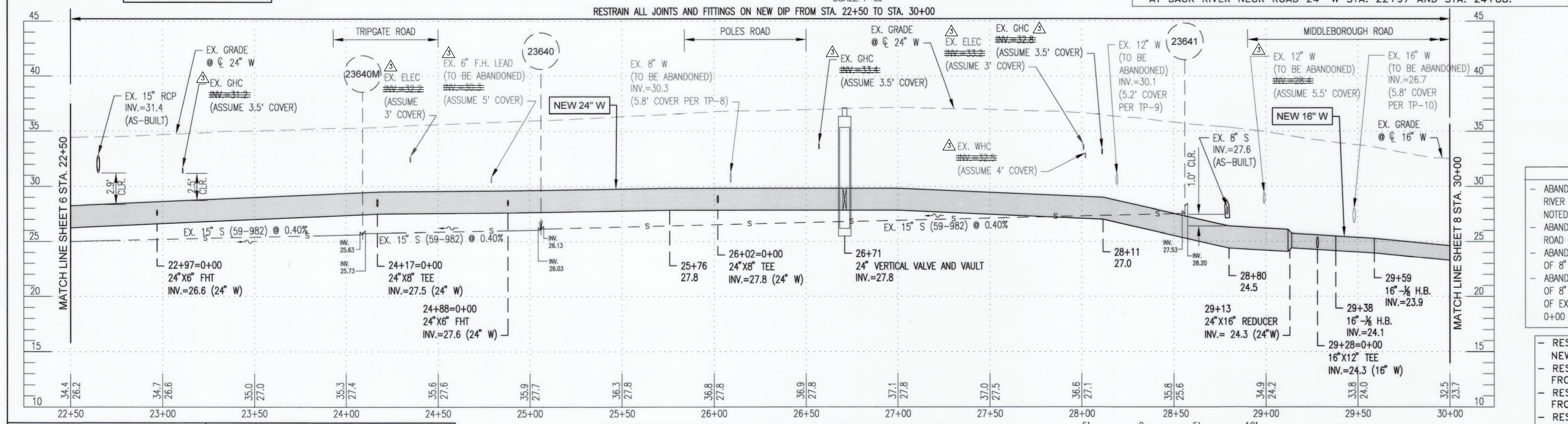
STATION	NORTHING	EASTING
0+00 (24"X8" TEE)	597874.73	1469822.68
0+03 (8" VALVE AND VAULT)	597876.44	1469825.33
0+08 (8"-1/16" LOWER VERT. BEND)	597879.33	1469829.23
0+11 (8"-1/16" UPPER VERT. BEND)	597881.12	1469831.89
0+25 (8"-1/8" HORZ. BEND)	597888.79	1469842.93
0+33 (WYE)	597887.53	1469851.59

STATION	NORTHING	EASTING
0+00 (24"X8" TEE)	598026.89	1469717.12
0+03 (8" VALVE AND VAULT)	598025.19	1469714.67
0+19 (8"-1/8" HORZ. BEND)	598016.13	1469701.60
0+24 (8"-1/32" LOWER VERT. BEND)	598011.21	1469700.71
0+29 (8"-1/32" UPPER VERT. BEND)	598006.29	1469699.82
0+32 (WYE)	598003.72	1469699.36

STATION	NORTHING	EASTING
0+00 (16"X12" TEE)	597609.79	1470012.46
0+03 (12" VALVE AND VAULT)	597611.61	1470014.86
0+16 (12"-1/8" LOWER VERT. BEND)	597619.55	1470025.15
0+20 (12"-1/8" UPPER VERT. BEND)	597621.63	1470027.85
0+27 (12"-1/16" HORZ. BEND)	597626.27	1470033.88
0+42 (WYE)	597630.10	1470048.05

- ABANDONING NOTES**
- ABANDON APPROX. 750 L.F. OF EX. 24" W/16" W IN PLACE ALONG BACK RIVER NECK ROAD RIGHT OF 24" W/16" W STA. 22+50 TO STA. 30+00 (AS NOTED X).
 - ABANDON APPROX. 700 L.F. OF EX. 12" W IN PLACE ALONG BACK RIVER NECK ROAD LEFT/RIGHT OF 24" W STA. 22+50 TO STA. 30+00 (AS NOTED X).
 - ABANDON APPROX. 37 L.F. OF EX. 8" W IN PLACE ALONG TRIPGATE ROAD LEFT OF 8" W STA. 0+00 TO STA. 0+64 (AS NOTED X).
 - ABANDON APPROX. 37 L.F. OF EX. 8" W IN PLACE ALONG POLES ROAD RIGHT OF 8" W STA. 0+00 TO STA. 0+33 (AS NOTED X). ABANDON APPROX. 38 L.F. OF EX. 12" W IN PLACE ALONG MIDDLEBOROUGH ROAD LEFT OF 12" W STA. 0+00 TO STA. 0+57 (AS NOTED X).

- RESTRAIN ALL PIPE JOINTS AND FITTINGS ON NEW 24" W/16" W FROM STA. 22+50 TO STA. 30+00
- RESTRAIN ALL PIPE JOINTS AND FITTINGS ON NEW 8" W FROM STA. 0+00 TO STA. 0+33
- RESTRAIN ALL PIPE JOINTS AND FITTINGS ON NEW 8" W FROM STA. 0+00 TO STA. 0+32
- RESTRAIN ALL PIPE JOINTS AND FITTINGS ON NEW 12" W FROM STA. 0+00 TO STA. 0+42



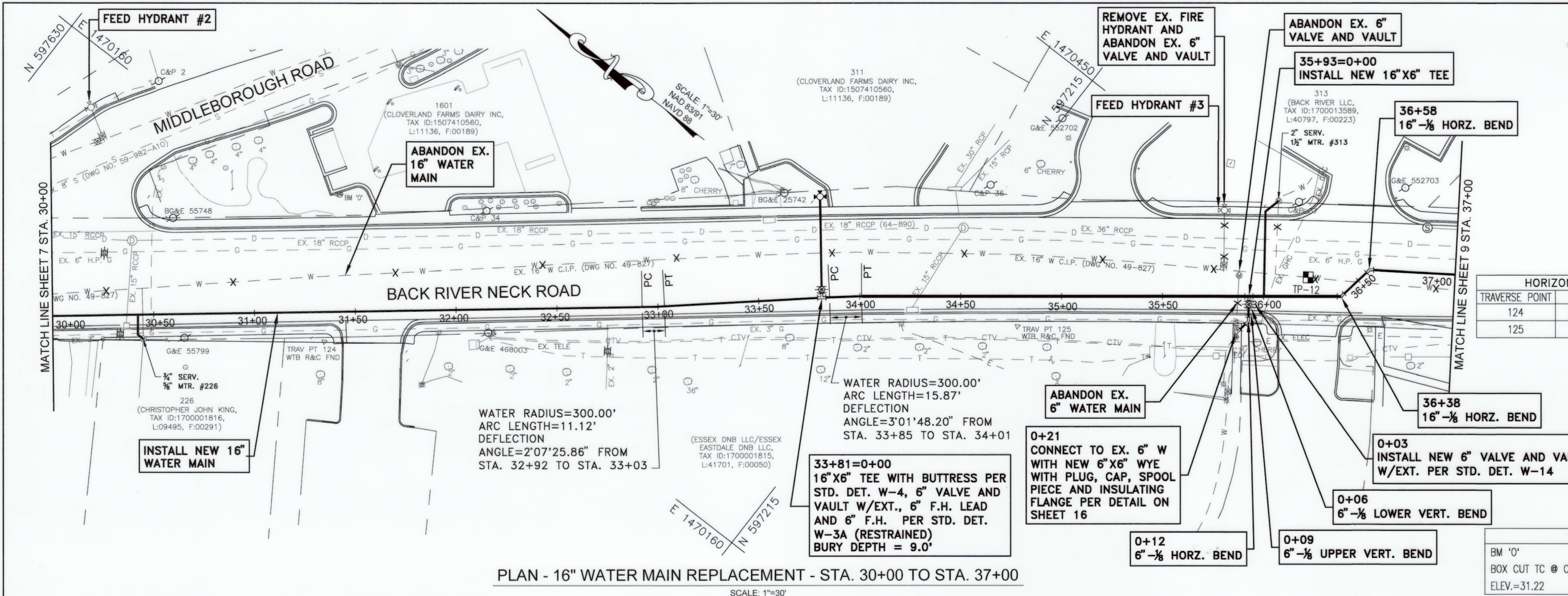
PROFILE OF 24"/16" W - STA. 22+50 TO STA. 30+00
SCALE: 1"=30' HORZ. 1"=5' VERT.

CITY OF BALTIMORE		REVISION - CITY OF BALTIMORE	
SEE DRAWING 2023-2704 FOR ORIGINAL SIGNATURES			
SEAL	PROFESSIONAL CERTIFICATION	REVISION	BY 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.	ADDENDUM 3	WIB 2/2/26
	ENGINEER: SHAWN BURNETT THE WILSON T. BALLARD CO.	DESIGN BY: DS	BUREAU OF ENGINEERING AND CONSTRUCTION
	AS-BUILT PER RECORD PRINT	DRAWN BY: TL	REVIEWED BY:
	DATE: 7-9-2025	CHKD BY: SB	DATE REVIEWED:
	SEE DRAWING 2023-2704 FOR ORIGINAL SIGNATURES		
	SEE DRAWING 2023-2704 FOR ORIGINAL SIGNATURES		

VERTICAL CONTROL		HORIZONTAL CONTROL	
BM 'P'	BOX CUT TO @ END OF SIDEWALK	TRAVERSE POINT	NORTHING EASTING
ELEV.=36.24		113	598057.99 1469744.78
SHEET DESIGNATION		CONTRACT NUMBER	
WATER SH 7 OF 18		23186-WX0	
JOB ORDER NUMBER		231-203-0067-0783	
SHEET 7 OF 44		DRAWING NUMBER	
2023-2710		FILE NO.:	

BALTIMORE COUNTY DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION BUREAU OF ENGINEERING & CONSTRUCTION
24-INCH AND 16-INCH WATER MAIN REPLACEMENT - PHASE 3
BACK RIVER NECK ROAD
FROM HOMBERG AVENUE TO NORTH OF HYDE PARK ROAD
SUBDIVISION: BACK RIVER NECK PROP. 24"/16" WATER MAIN PLAN (STA. 22+50 TO STA. 30+00) ELECTION DIST. NO.: 15C7

DING, FILENAME: T:\Baltimore County Utilities\00-122.03 Back River Neck Road Phase 3\DWG\BPS-0005-BRNF-A-ADDENDUM 3.dwg



PLAN - 16" WATER MAIN REPLACEMENT - STA. 30+00 TO STA. 37+00
SCALE: 1"=30'

EXISTING TEST PITS						
TEST PIT NO.	NORTHING	EASTING	GROUND ELEV.	UTILITY	COVER	TOP ELEV.
12	597070.70	1470439.03	24.93	16" W	5.61	19.32

WATER STAKEOUT TABLE BACK RIVER NECK ROAD 16" W		
STATION	NORTHING	EASTING
32+92 (PC)	597321.74	1470224.51
33+03 (PT)	597313.22	1470231.65
33+81 (16"X6" F.H.T.)	597254.51	1470282.73
33+85 (PC)	597251.58	1470285.28
34+01 (PT)	597239.34	1470295.37
35+93 (16"X6" TEE)	597088.10	1470413.52
36+38 (16-1/8 HORZ. BEND)	597052.06	1470441.67
36+58 (16-1/8 HORZ. BEND)	597049.06	1470460.63

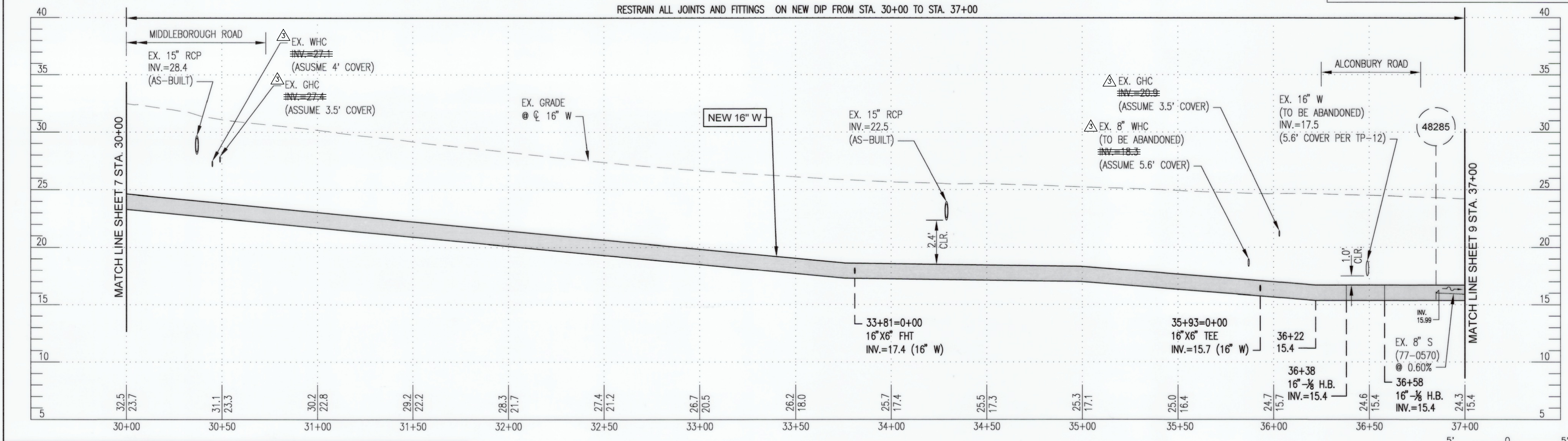
HORIZONTAL CONTROL		
TRAVERSE POINT	NORTHING	EASTING
124	597435.37	1470113.95
125	597169.37	1470331.31

WATER STAKEOUT TABLE 6" WHC STA. 35+93		
STATION	NORTHING	EASTING
0+00 (16"X6" TEE)	597088.10	1470413.52
0+03 (6" VALVE AND VAULT)	597086.29	1470411.13
0+06 (6"-1/16 LOWER VERT. BEND)	597084.50	1470408.72
0+09 (6"-1/16 UPPER VERT. BEND)	597083.00	1470406.72
0+12 (6"-1/8 HORZ. BEND)	597080.70	1470403.66
0+21 (WYE)	597082.06	1470395.23

- RESTRAIN ALL PIPE JOINTS AND FITTINGS ON NEW 16" W FROM STA. 30+00 TO STA. 37+00
- RESTRAIN ALL PIPE JOINTS AND FITTINGS ON NEW 6" W FROM STA. 0+00 TO STA. 0+25
- SEE SHEET 13 FOR PROFILE OF 6" WATER SERVICE CONNECTION AT BACK RIVER NECK ROAD 16" W STA. 35+93.
- SEE SHEET 13 FOR PROFILE OF 6" WATER FOR PROFILE FOR FIRE HYDRANT AT BACK RIVER NECK ROAD 16" W STA. 33+81.

- ABANDONING NOTES**
- ABANDON APPROX. 700 L.F. OF EX. 16" W IN PLACE ALONG BACK RIVER NECK ROAD RIGHT OF 16" W STA. 30+00 TO STA. 37+00 (AS NOTED X).
 - ABANDON APPROX. 30 L.F. OF EX. 6" WHC IN PLACE ALONG BACK RIVER NECK ROAD 24" W STA. 36+03 RIGHT OF 6" WHC STA. 0+00 TO STA. 0+26 (AS NOTED X).

BILL OF MATERIALS		
QUANTITY	DESCRIPTION	SIZE
700 L.F.	DUCTILE IRON PIPE	16"
68 L.F.	DUCTILE IRON PIPE	6"
50 L.F.	COPPER	2"
13 L.F.	COPPER	3/4"
1 EA.	TAP AND CORP STOP	3/4"
1 EA.	TAP AND CORP STOP	2"
2 EA.	1/8 BEND	16"
3 EA.	1/8 BEND	6"
2 EA.	TEE	16"X6"
2 EA.	VALVE AND VAULT	6"
1 EA.	FIRE HYDRANT	-
1 EA.	WYE	6"X6"
1 EA.	CAP	6"
1 EA.	PLUG	6"
1 EA.	SLEEVE	6"
1 EA.	SPACER	6"



PROFILE OF 16" W - STA. 30+00 TO STA. 37+00
SCALE: 1"=30' HORZ.
1"=5' VERT.

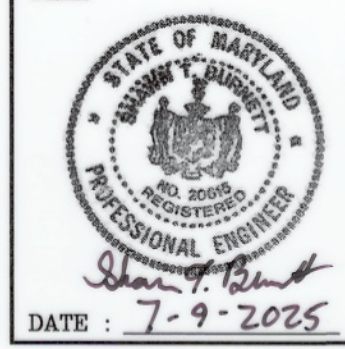
CITY OF BALTIMORE	REVISION - CITY OF BALTIMORE
SEE DRAWING 2023-2704 FOR ORIGINAL SIGNATURES	

SEAL	PROFESSIONAL CERTIFICATION		REVISION	BY	DATE	P.W.A. NO.	KEY SHEET	POSITION	SHT	DRAWING SCALE	DPW & TRANSPORTATION
	ENGINEER: SHAWN BURNETT THE WILSON T. BALLARD CO.	DESIGN BY: DS									
	ADDENDUM 3		WTB	2/2/26			I-SE	3NE33	4NE33	1"=30'	SEE DRAWING 2023-2704 FOR ORIGINAL SIGNATURES
	AS-BUILT PER RECORD PRINT									1"=30'	SEE DRAWING 2023-2704 FOR ORIGINAL SIGNATURES
	BY: DATE:	REVIEWED BY: DATE REVIEWED:								1"=30'	SEE DRAWING 2023-2704 FOR ORIGINAL SIGNATURES

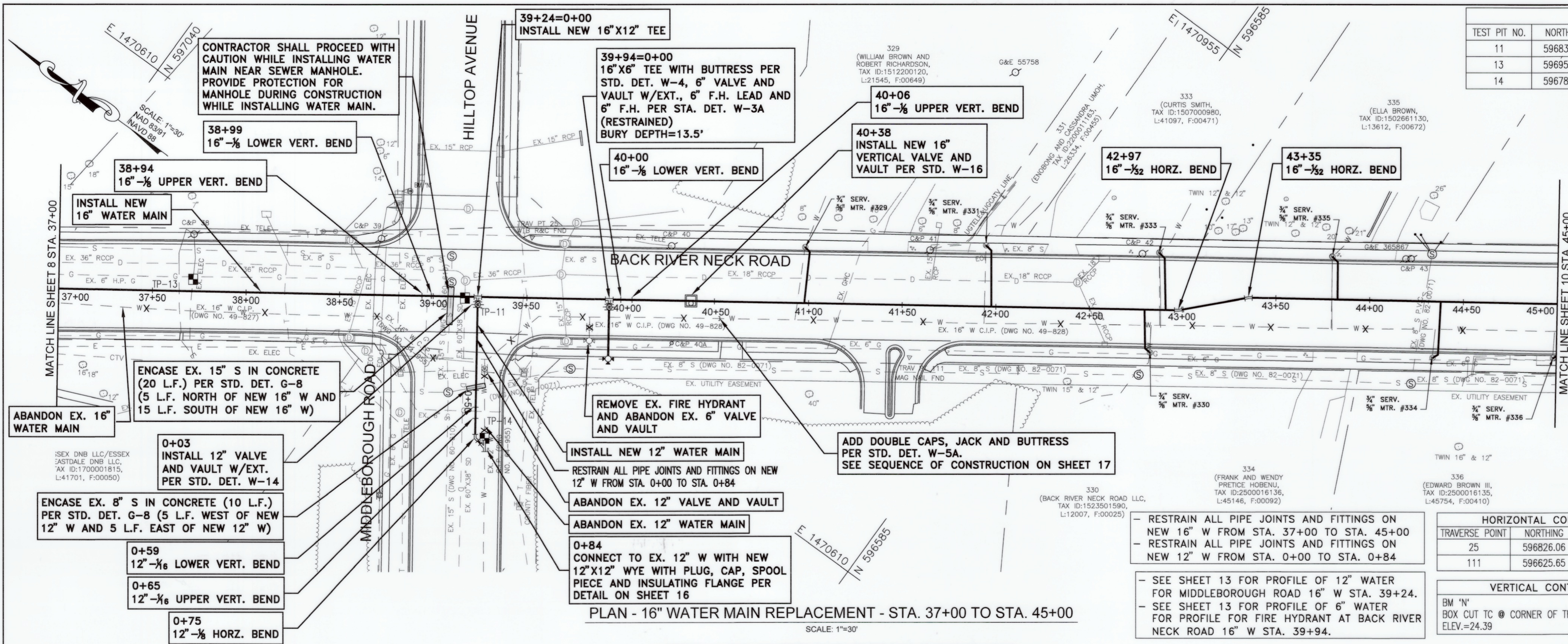
BALTIMORE COUNTY DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION BUREAU OF ENGINEERING & CONSTRUCTION
24-INCH AND 16-INCH WATER MAIN REPLACEMENT - PHASE 3
BACK RIVER NECK ROAD
FROM HOMBERG AVENUE TO NORTH OF HYDE PARK ROAD
SUBDIVISION: BACK RIVER NECK PROP. 16" WATER MAIN PLAN (STA. 30+00 TO STA. 37+00) ELECTION DIST. NO.: 15C7

CONTRACT COMPLETION BOX	
CONTRACTOR:	
DATE COMPLETED:	
INSPECTOR:	
PIPE MATERIAL:	
CATHODIC PROTECTION SYSTEM METHOD (POTABLE WATER ONLY):	
<input type="checkbox"/> BONDED COATED PIPE	PIPE DIAMETER(S):
<input type="checkbox"/> N/A - ZINC COATED PIPE	PIPE DIAMETER(S):
<input type="checkbox"/> WITH POLYETHYLENE ENCASMENT	PIPE DIAMETER(S):
<input type="checkbox"/> OTHER (SPECIFY):	PIPE DIAMETER(S):

SHEET DESIGNATION	CONTRACT NUMBER
WATER SH 8 OF 18	23186-WXO
JOB ORDER NUMBER	231-203-0067-0783
SHEET 8 OF 44	
DRAWING NUMBER	2023-2711
FILE NO.:	



DWG. FILENAME: T:\Baltimore County Utilities\800-122-03 Back River Neck Road Phase 3\DWG\PS-0006-BRNR-ADDENDUM 3.dwg



EXISTING TEST PITS					
TEST PIT NO.	NORTHING	EASTING	GROUND ELEV.	UTILITY	COVER TOP ELEV.
11	596835.59	1470608.83	23.87	60" X 38" SD	3.82 20.05
13	596959.25	1470531.04	24.32	ELEC	3.35 20.97
14	596783.63	1470553.80	23.33	12" W	8.07 15.26

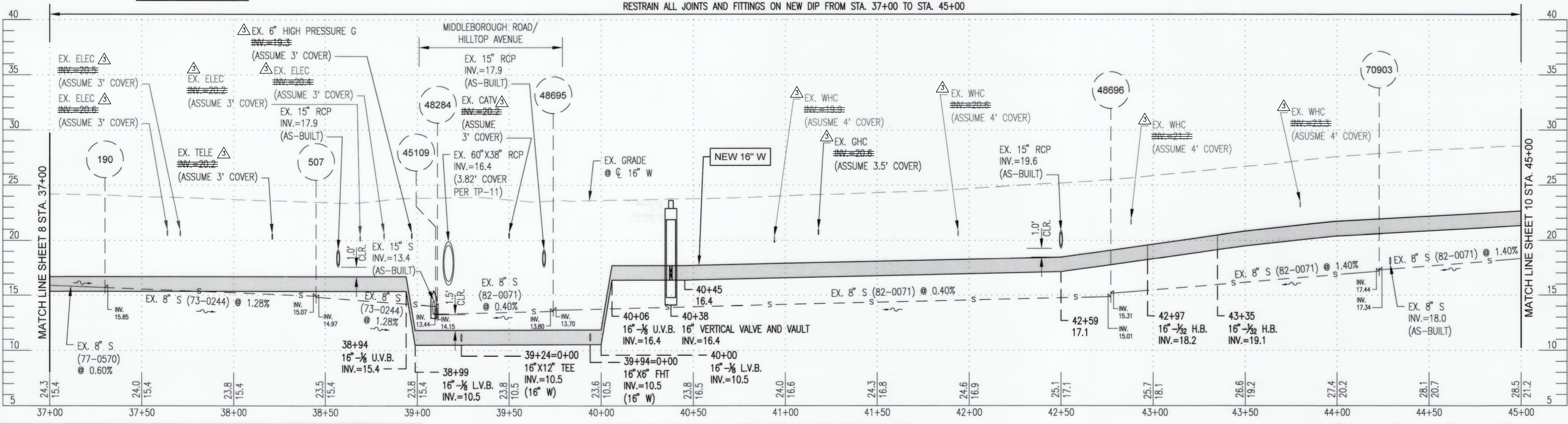
WATER STAKEOUT TABLE BACK RIVER NECK ROAD 16" W		
STATION	NORTHING	EASTING
38+94 (16" -1/8 UPPER VERT. BEND)	596855.71	1470595.53
38+99 (16" -1/8 LOWER VERT. BEND)	596851.61	1470598.40
39+24 (16" X 12" TEE)	596830.85	1470612.88
39+94 (16" X 6" F.H.T.)	596773.33	1470653.01
40+00 (16" -1/8 LOWER VERT. BEND)	596768.78	1470656.18
40+06 (16" -1/8 UPPER VERT. BEND)	596763.88	1470659.64
40+38 (16" VALVE AND VAULT)	596737.55	1470677.97
42+97 (16" -1/32 HORZ. BEND)	596524.48	1470826.63
43+35 (16" -1/32 HORZ. BEND)	596498.11	1470854.09

WATER STAKEOUT TABLE MIDDLEBOROUGH ROAD 12" W (16" W STA. 39+24)		
STATION	NORTHING	EASTING
0+00 (16" X 12" TEE)	596830.85	1470612.88
0+03 (12" VALVE AND VAULT)	596829.13	1470610.42
0+59 (12" -1/16 UPPER VERT. BEND)	596797.09	1470564.49
0+65 (12" -1/16 LOWER VERT. BEND)	596793.66	1470559.57
0+75 (12" -1/8 HORZ. BEND)	596787.25	1470550.92
0+84 (WYE)	596779.12	1470549.50

BILL OF MATERIALS		
QUANTITY	DESCRIPTION	SIZE
800 L.F.	DUCTILE IRON PIPE	16"
84 L.F.	DUCTILE IRON PIPE	Δ 12"
32 L.F.	DUCTILE IRON PIPE	6"
177 L.F.	COPPER	3/4"
6 EA.	TAP AND CORP STOP	3/4"
4 EA.	1/8 BEND	16"
2 EA.	1/32 BEND	16"
1 EA.	1/8 BEND	12"
2 EA.	1/16 BEND	12"
1 EA.	TEE	16" X 12"
1 EA.	TEE	16" X 6"
1 EA.	VALVE AND VAULT	16"
1 EA.	VALVE AND VAULT	12"
1 EA.	VALVE AND VAULT	6"
1 EA.	FIRE HYDRANT	-
1 EA.	WYE	12" X 12"
1 EA.	CAP	12"
2 EA.	CAP	16"
1 EA.	PLUG	12"
1 EA.	SLEEVE	12"
1 EA.	SPACER	12"

ABANDONING NOTES

- ABANDON APPROX. 800 L.F. OF EX. 16" W IN PLACE ALONG BACK RIVER NECK ROAD LEFT OF 24" W STA. 37+00 TO STA. 45+00 (AS NOTED X).
- ABANDON APPROX. 71 L.F. OF EX. 12" W IN PLACE ALONG MIDDLEBOROUGH ROAD LEFT OF 12" W STA. 0+00 TO STA. 0+84 (AS NOTED X).



HORIZONTAL CONTROL		
TRAVERSE POINT	NORTHING	EASTING
25	596826.06	1470655.65
111	596625.65	1470721.84

VERTICAL CONTROL		
BM 'N'	BOX CUT TO @ CORNER OF TRANSFORMER PAD	ELEV.=24.39

REVISION - CITY OF BALTIMORE

SEE DRAWING 2023-2704 FOR ORIGINAL SIGNATURES

PROFESSIONAL CERTIFICATION	REVISION	BY	DATE	P.W.A. NO.	KEY SHEET	POSITION	SHT	DRAWING SCALE	DPW & TRANSPORTATION
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. 20615, EXPIRATION DATE 10/21/26 ENGINEER: SHAWN BURNETT THE WILSON T. BALLARD CO. AS-BUILT PER RECORD PRINT DATE: 7-9-2025	ADDENDUM 3	WTB	2/2/26		I-SE	3NE33 3NE34		1"=80' 1"=30'	SEE DRAWING 2023-2704 FOR ORIGINAL SIGNATURES
	BUREAU OF ENGINEERING AND CONSTRUCTION								BUR. OF ENGINEERING & CONSTRUCTION

SEE DRAWING 2023-2704 FOR ORIGINAL SIGNATURES

BALTIMORE COUNTY DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION BUREAU OF ENGINEERING & CONSTRUCTION

24-INCH AND 16-INCH WATER MAIN REPLACEMENT - PHASE 3

BACK RIVER NECK ROAD

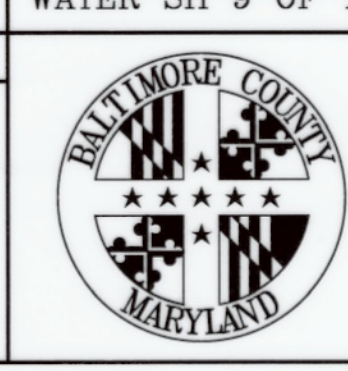
FROM HOMBERG AVENUE TO NORTH OF HYDE PARK ROAD

SUBDIVISION: BACK RIVER NECK PROP. 16" WATER MAIN PLAN (STA. 37+00 TO STA. 45+00) ELECTION DIST. NO.: 15C7

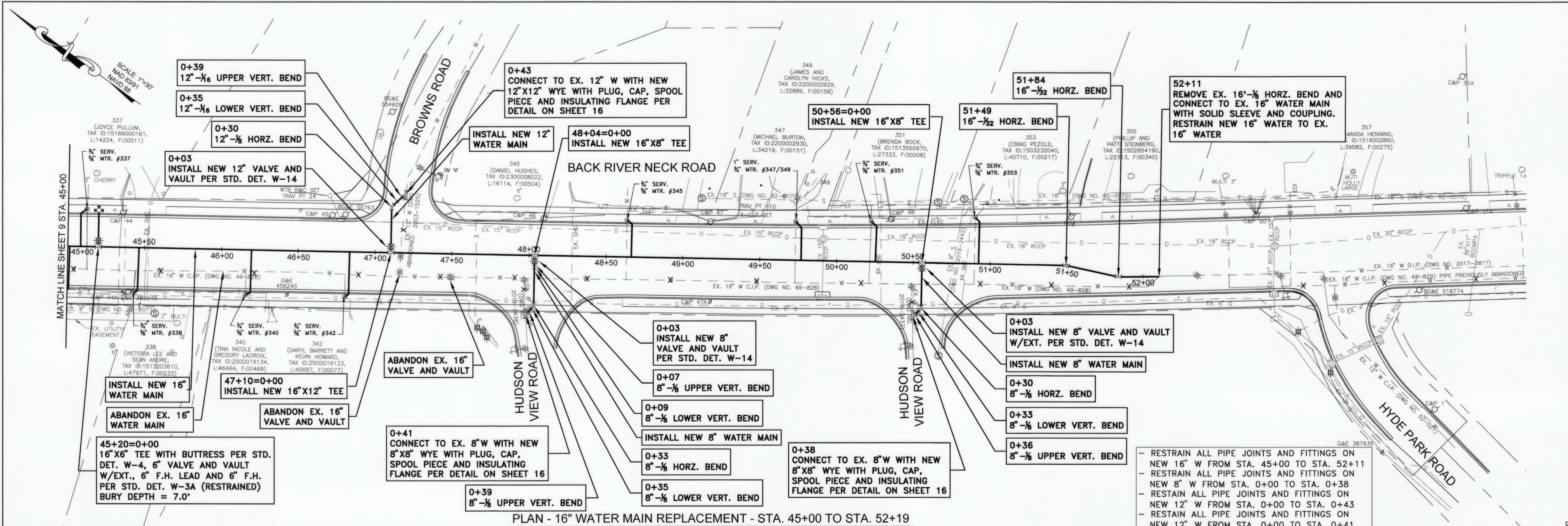
SHEET DESIGNATION	CONTRACT NUMBER
WATER SH 9 OF 18	23186-WXO

JOB ORDER NUMBER	SHEET 9 OF 44	DRAWING NUMBER
231-203-0067-0783		2023-2712

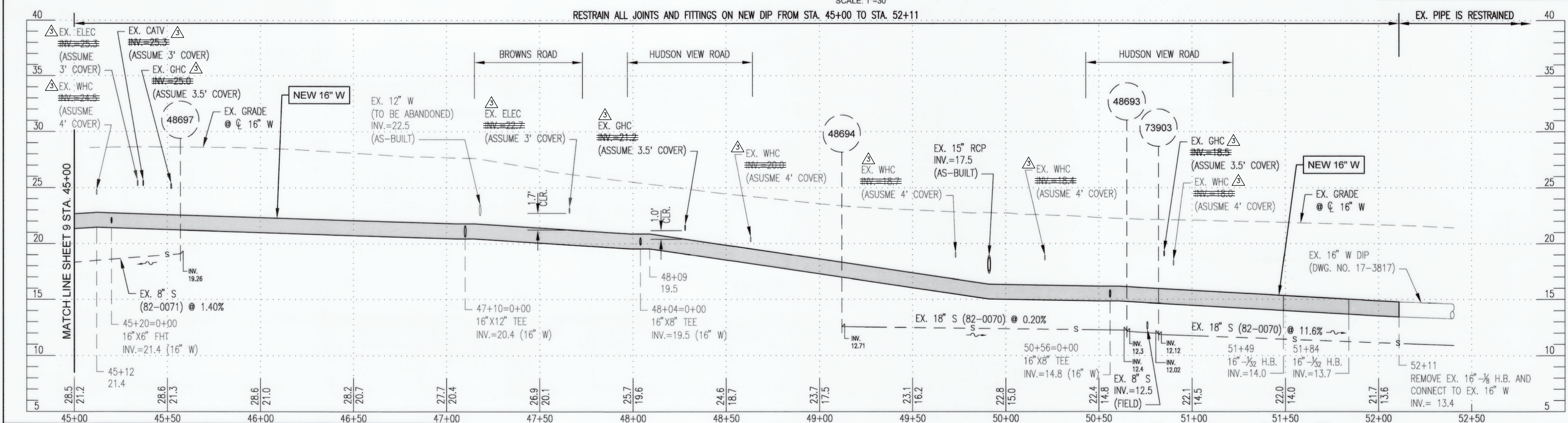
FILE NO.:



DWG. FILENAME: I:\Baltimore County Utilities\800-122-03 Back River Neck Road Phase 3\DWG\PS-2007-25\BMR-ADDENDUM 3.dwg



PLAN - 16" WATER MAIN REPLACEMENT - STA. 45+00 TO STA. 52+19



PROFILE OF 16" W - STA. 45+00 TO STA. 52+19

- RESTRAIN ALL PIPE JOINTS AND FITTINGS ON NEW 16" W FROM STA. 45+00 TO STA. 52+11
 - RESTRAIN ALL PIPE JOINTS AND FITTINGS ON NEW 8" W FROM STA. 0+00 TO STA. 0+38
 - RESTRAIN ALL PIPE JOINTS AND FITTINGS ON NEW 12" W FROM STA. 0+00 TO STA. 0+43
 - RESTRAIN ALL PIPE JOINTS AND FITTINGS ON NEW 12" W FROM STA. 0+00 TO STA. 0+41
- ABANDONING NOTES
- ABANDON APPROX. 719 L.F. OF EX. 16" W IN PLACE ALONG BACK RIVER NECK ROAD RIGHT OF 24" W STA. 45+00 TO STA. 52+19 (AS NOTED X).
 - ABANDON APPROX. 51 L.F. OF EX. 12" W IN PLACE ALONG BROWNS ROAD RIGHT OF 12" W STA. 0+00 TO STA. 0+43 (AS NOTED X).
 - ABANDON APPROX. 25 L.F. OF EX. 8" W IN PLACE ALONG HUDSON VIEW ROAD, BACK RIVER NECK ROAD 16" W STA. 48+04 RIGHT OF 8" W STA. 0+00 TO STA. 0+41 (AS NOTED X).
 - ABANDON APPROX. 22 L.F. OF EX. 8" W IN PLACE ALONG HUDSON VIEW ROAD, BACK RIVER NECK ROAD 16" W STA. 50+64 RIGHT OF 8" W STA. 0+00 TO STA. 0+38 (AS NOTED X).

HORIZONTAL CONTROL		
TRAVERSE POINT	NORTHING	EASTING
24	596254.52	1471056.41
110	596016.49	1471229.18

VERTICAL CONTROL	
BM 'M'	ELEV.=28.27
BOX CUT TC IN FRONT OF F.H.	

SHEET DESIGNATION	CONTRACT NUMBER
WATER SH 10 OF 18	23186-WX0

JOB ORDER NUMBER
231-203-0067-0783

SHEET 10 OF 44
DRAWING NUMBER
2023-2713

FILE NO.

SEE DRAWING 2023-2704 FOR ORIGINAL SIGNATURES

CITY OF BALTIMORE REVISION - CITY OF BALTIMORE

SCALE: 1"=30' HORIZ. 1"=5' VERT.

DATE: 7-9-2025

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.

ENGINEER: SHAWN BURNETT
 THE WILSON T. BALLARD CO.
 LICENSE NO. 20615 EXPIRATION DATE 10/21/26

DESIGN BY: DS
 DRAWN BY: TL
 AS-BUILT PER RECORD PRINT
 BY: DATE: _____

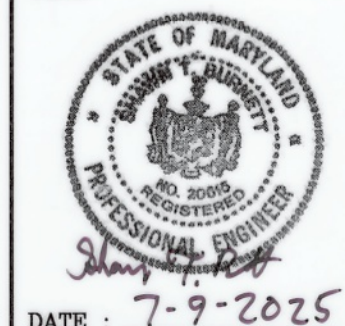
REVISION

BY: WTB DATE: 2/2/26

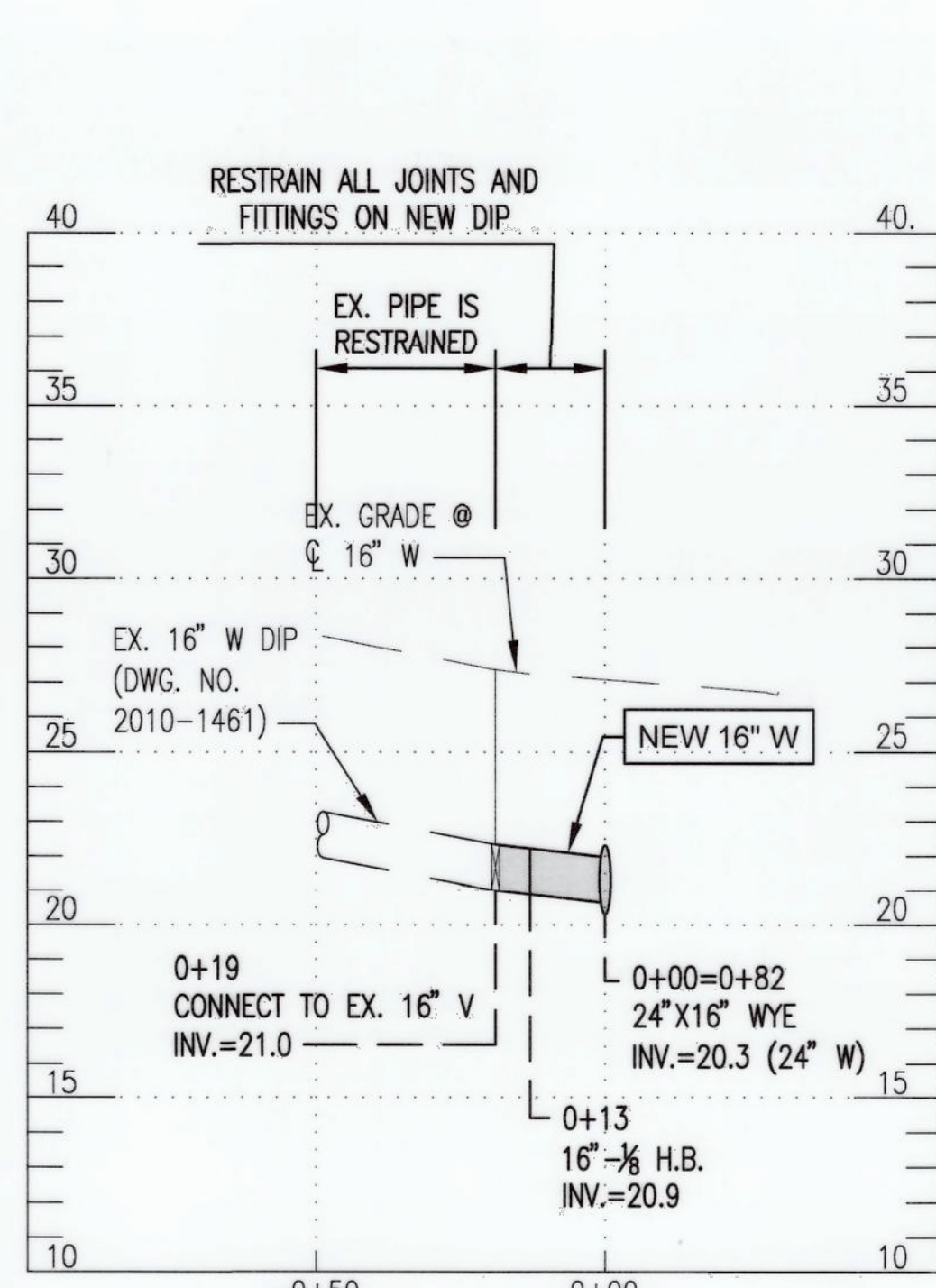
P.W.A. NO. KEY SHEET POSITION SHT DRAWING SCALE DPW & TRANSPORTATION

BALTIMORE COUNTY DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION BUREAU OF ENGINEERING & CONSTRUCTION

24-INCH AND 16-INCH WATER MAIN REPLACEMENT - PHASE 3
 BACK RIVER NECK ROAD
 FROM HOMBERG AVENUE TO NORTH OF HYDE PARK ROAD
 SUBDIVISION: BACK RIVER NECK PROP. 16" WATER MAIN PLAN (STA. 45+00 TO STA. 52+19) ELECTION DIST. NO.: 15C7

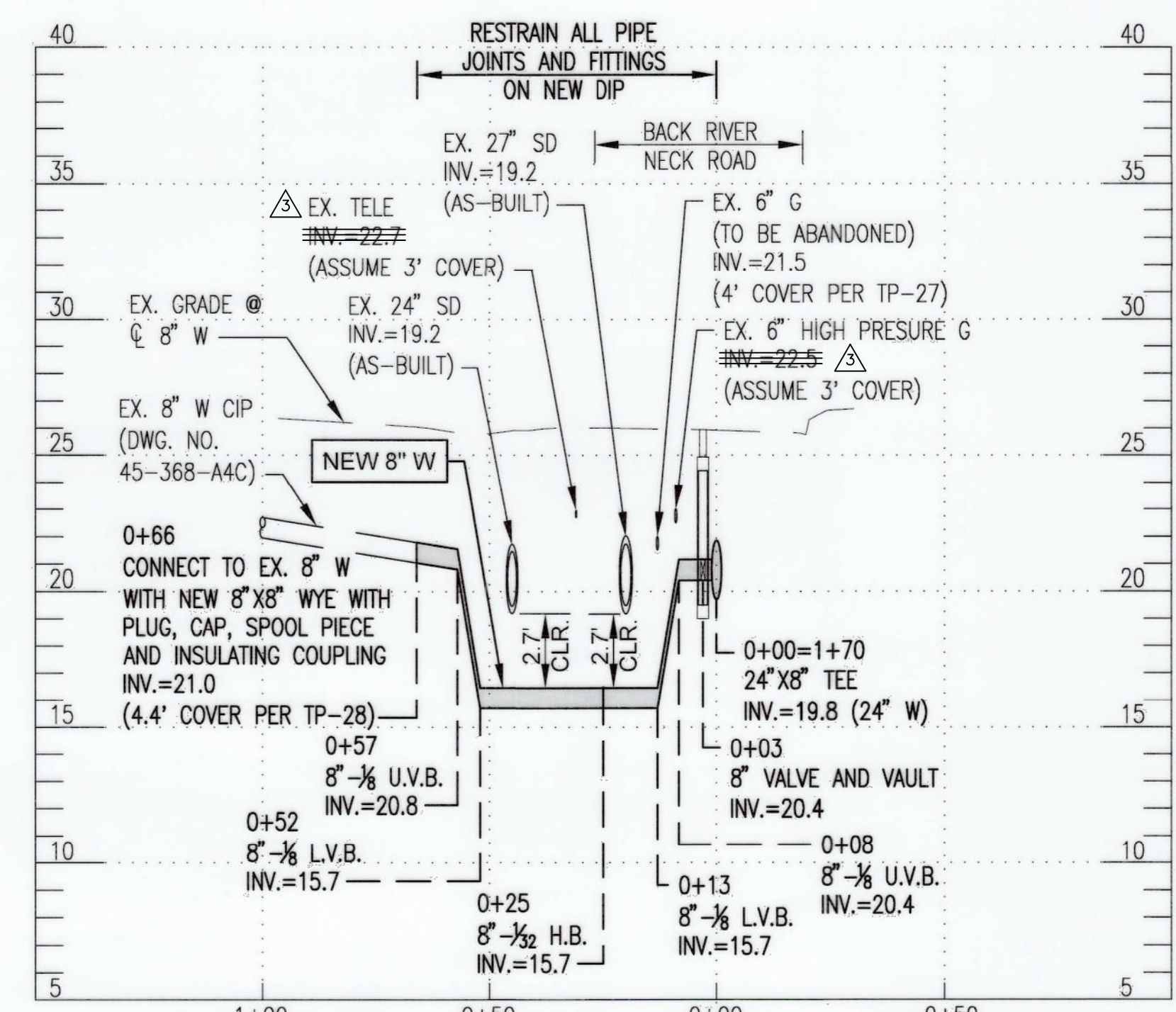


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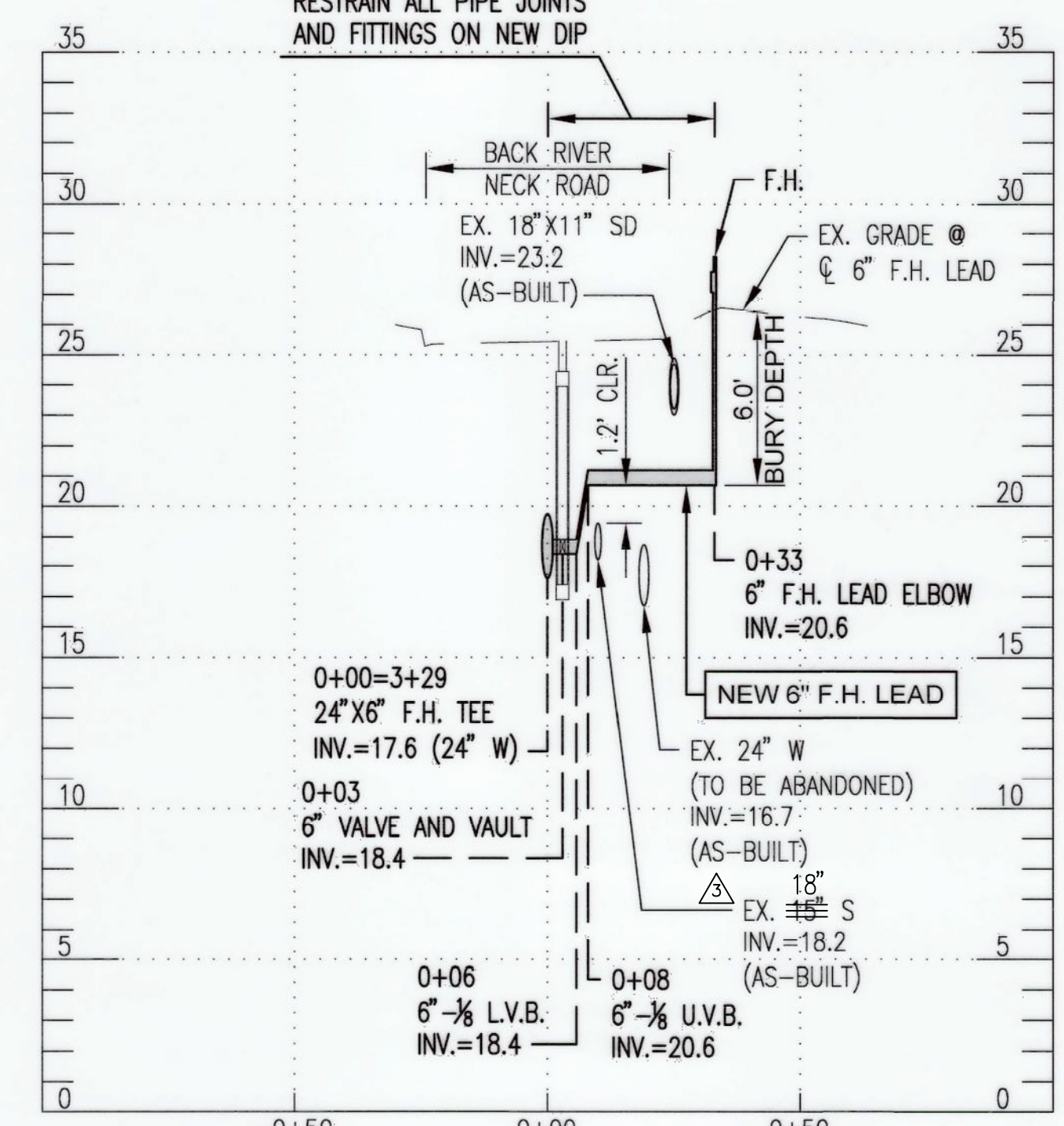
PROP. 24"X16 INTERCONNECT
(SEE SHEET 3)

SCALE: 1"=30' HORZ.
1"=5' VERT.



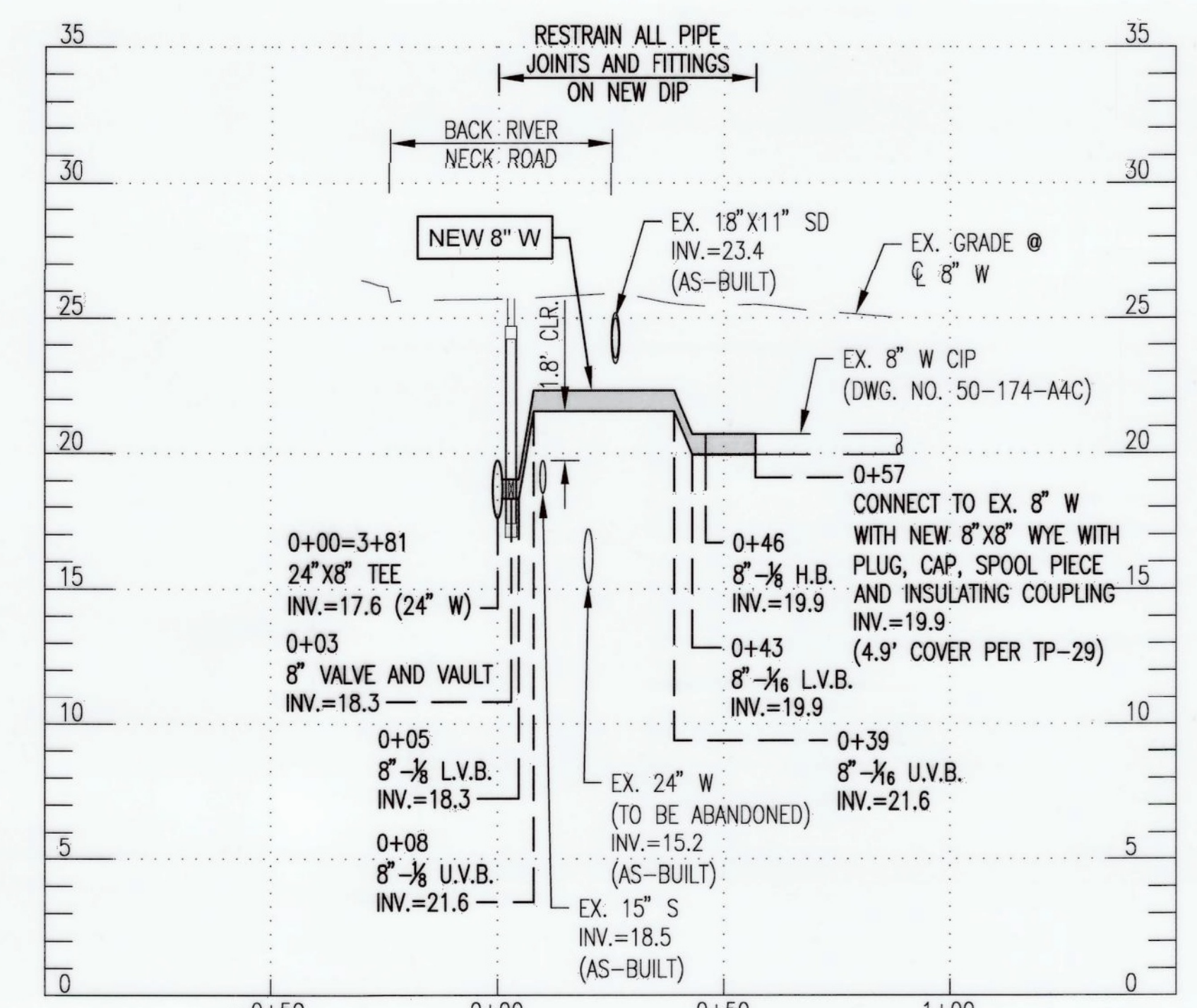
PROP. 8" WATER - HOPEWELL AVENUE EAST
(SEE SHEET 3)

SCALE: 1"=30' HORZ.
1"=5' VERT.



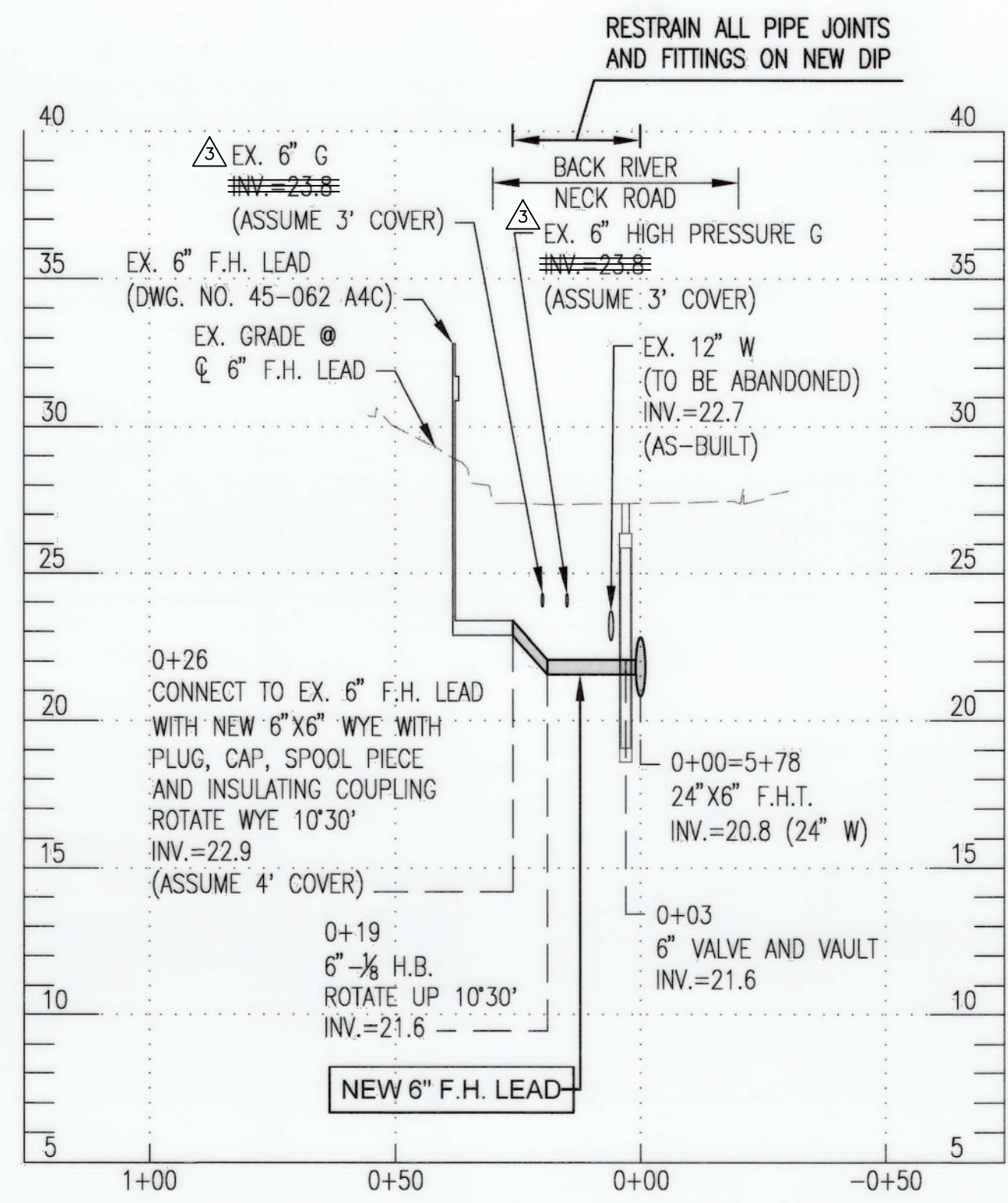
PROP. 6" F.H. LEAD
BACK RIVER NECK ROAD 24" W STA. 3+29
(SEE SHEET 4)

SCALE: 1"=30' HORZ.
1"=5' VERT.



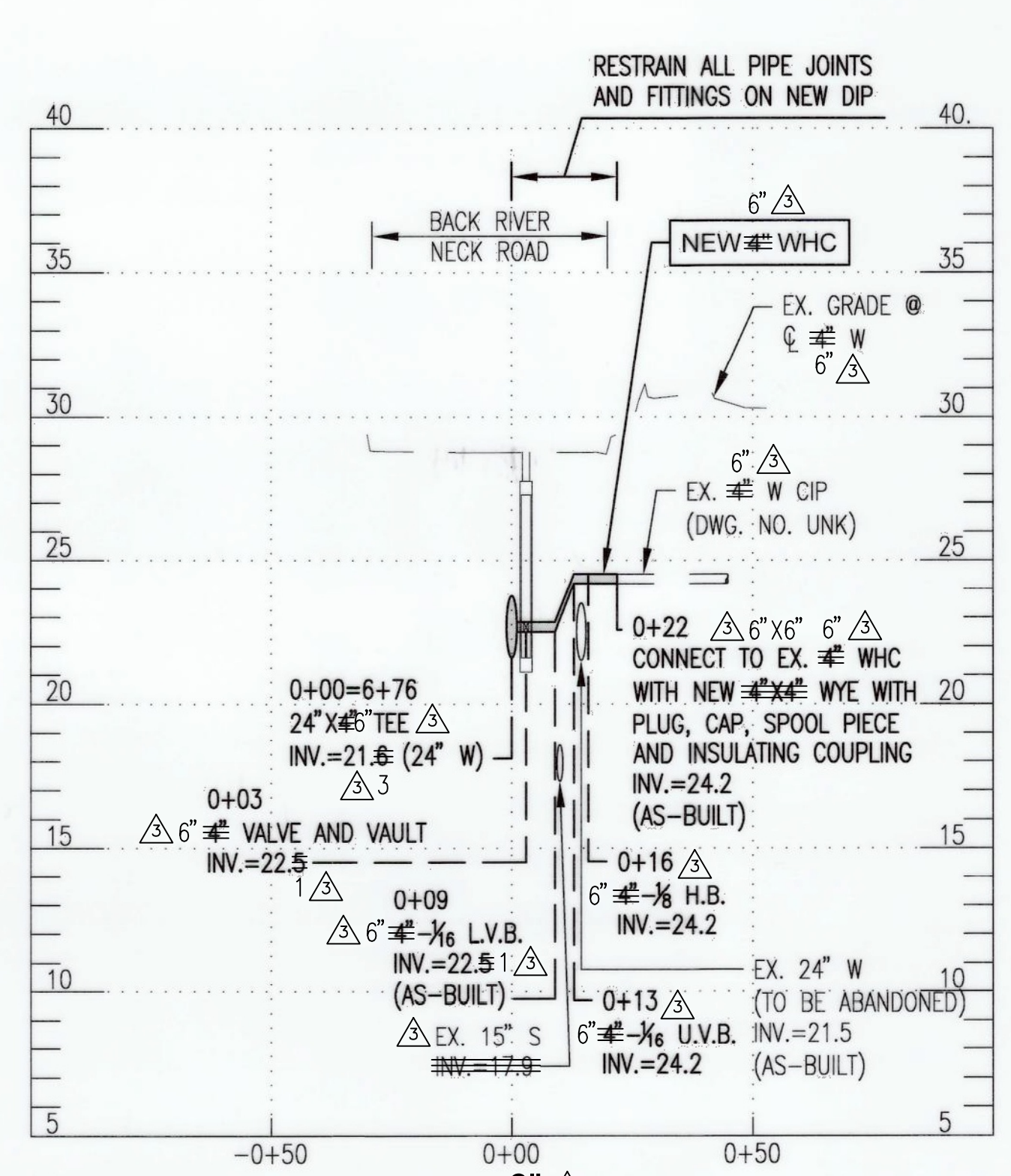
PROP. 8" WATER - HOPEWELL AVENUE WEST
(SEE SHEET 4)

SCALE: 1"=30' HORZ.
1"=5' VERT.



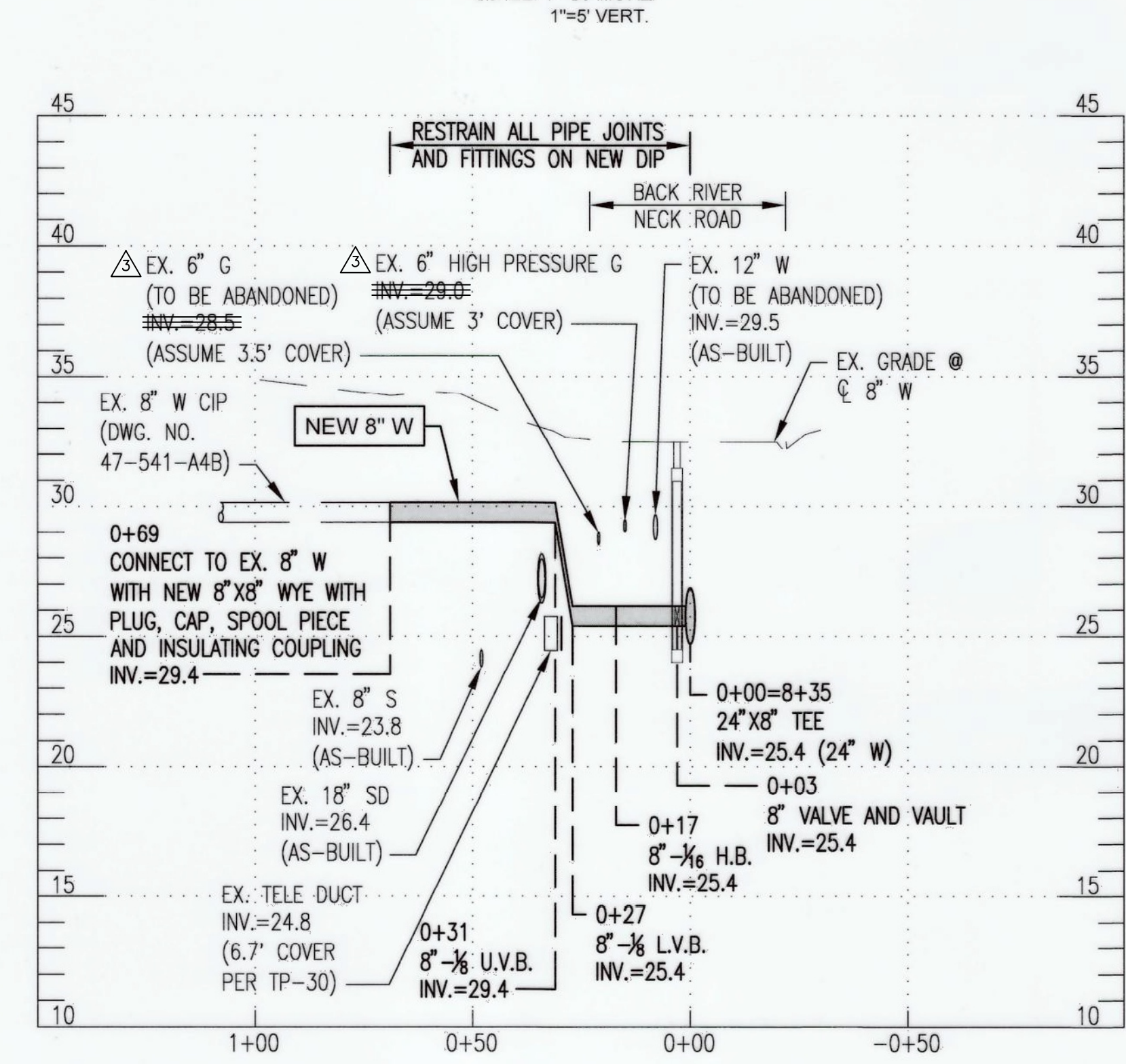
PROP. 6" F.H. LEAD
BACK RIVER NECK ROAD 24" W STA. 5+78
(SEE SHEET 4)

SCALE: 1"=30' HORZ.
1"=5' VERT.



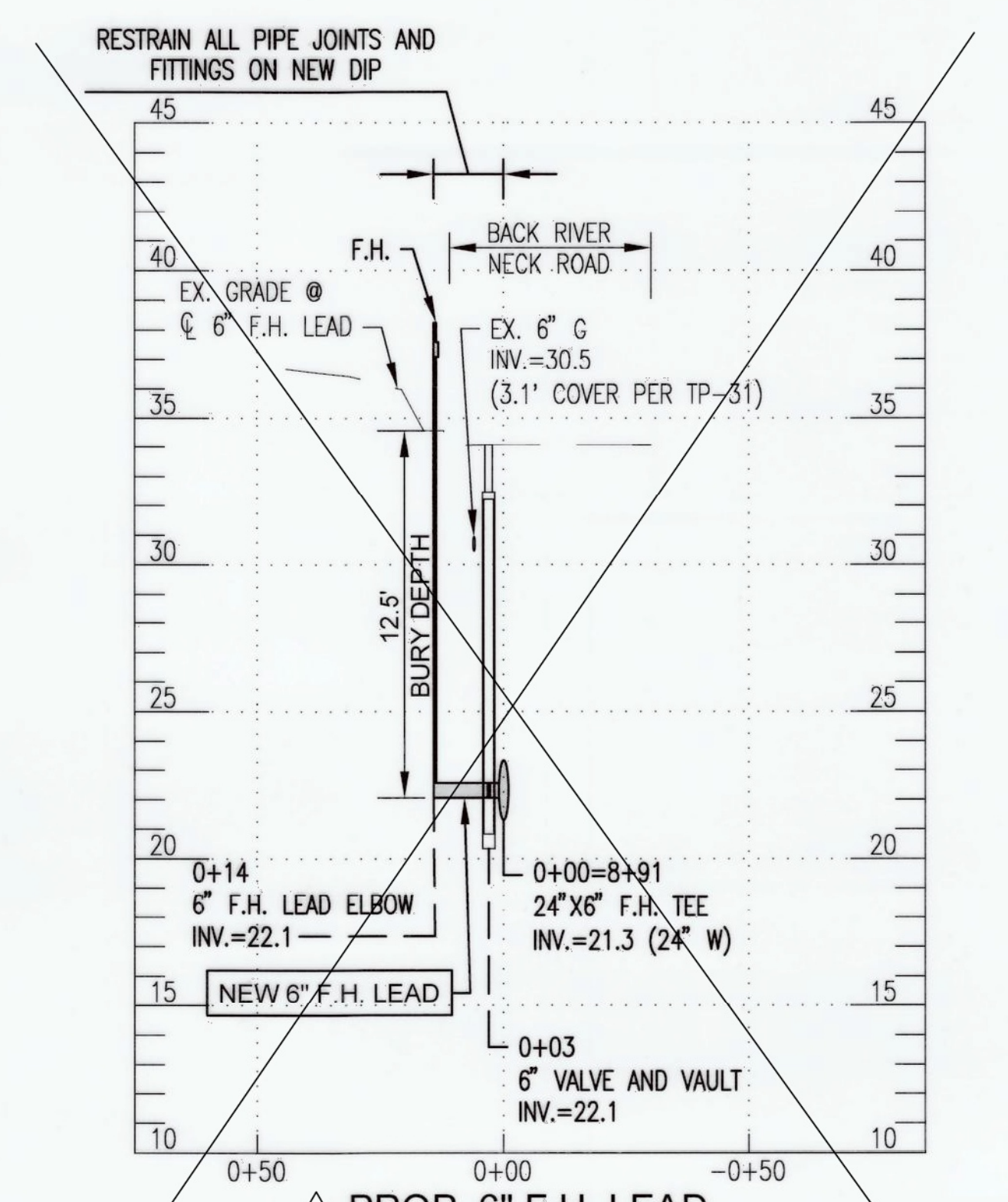
PROP. 6" WHC
BACK RIVER NECK ROAD 24" W STA. 6+76
(SEE SHEET 4)

SCALE: 1"=30' HORZ.
1"=5' VERT.



PROP. 8" WATER - HOWARD AVENUE
(SEE SHEET 4)

SCALE: 1"=30' HORZ.
1"=5' VERT.



PROP. 6" F.H. LEAD
BACK RIVER NECK ROAD 24" W STA. 8+91
(SEE SHEET 4)

SCALE: 1"=30' HORZ.
1"=5' VERT.

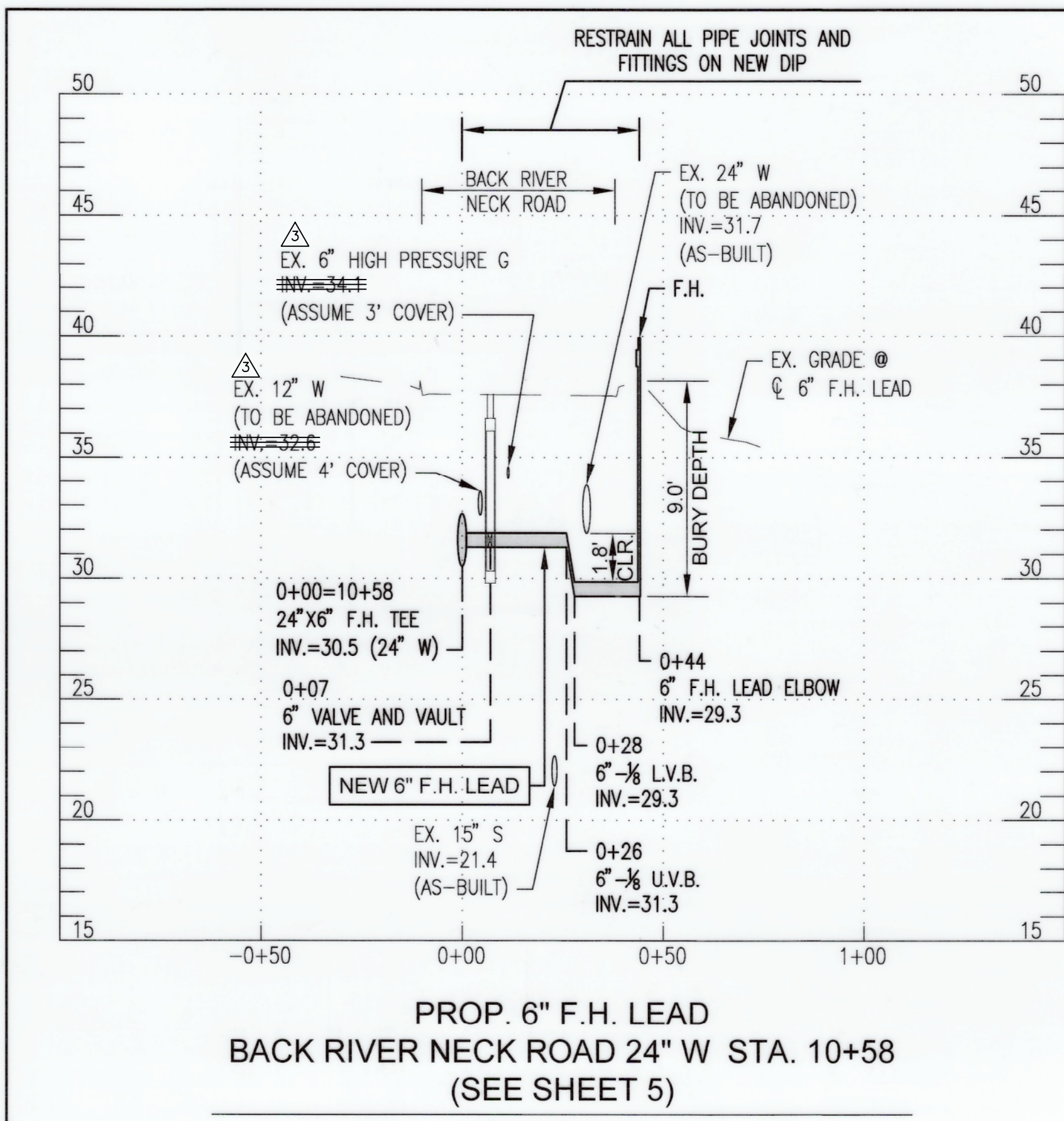
CITY OF BALTIMORE	REVISION - CITY OF BALTIMORE
SEE DRAWING 2023-2704 FOR ORIGINAL SIGNATURES	

SEAL	PROFESSIONAL CERTIFICATION	REVISION	BY	DATE	P.W.A. NO.	KEY SHEET POSITION SH#	DRAWING SCALE	DPW & TRANSPORTATION
	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. 20616 EXPIRATION DATE 10/21/26	ADDENDUM 3	WTB	2/2/26			PLAN SCALE: 1"=30'	SEE DRAWING 2023-2704 FOR ORIGINAL SIGNATURES SEE DRAWING 2023-2704 FOR ORIGINAL SIGNATURES
ENGINEER: SHAWN BURNETT THE WILSON T. BALLARD CO. AS-BUILT PER RECORD PRINT BY: DATE:	DESIGN BY: DS DRAWN BY: TL CHECK BY: SB	BUREAU OF ENGINEERING AND CONSTRUCTION REVIEWED BY:	BUILDINGS HIGHWAYS STRUCTURES STORM DRAINS SEWER WATER FIELD ENGINEER	HUR. OF ENGINEERING & CONSTRUCTION SEE DRAWING 2023-2704 FOR ORIGINAL SIGNATURES	SEE DRAWING 2023-2704 FOR ORIGINAL SIGNATURES			

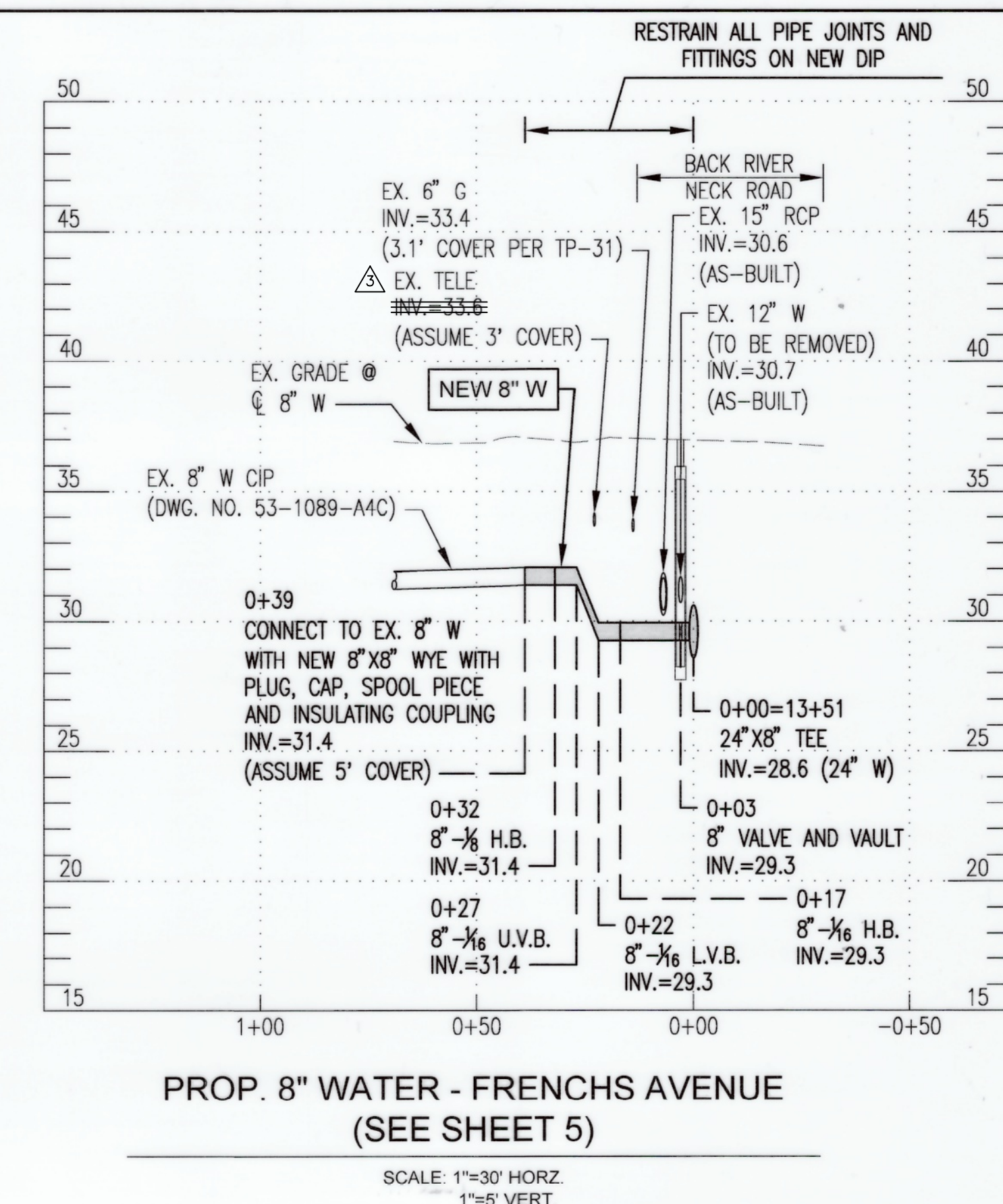
BALTIMORE COUNTY DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION BUREAU OF ENGINEERING & CONSTRUCTION
 24-INCH AND 16-INCH WATER MAIN REPLACEMENT - PHASE 3
 BACK RIVER NECK ROAD
 FROM HOMBERG AVENUE TO NORTH OF HYDE PARK ROAD
 SUBDIVISION: BACK RIVER NECK PROP. WATER MAIN BRANCH CONNECTIONS AND FIRE HYDRANT PROFILES ELECTION DIST. NO.:15C7

SHEET DESIGNATION	CONTRACT NUMBER
WATER SH 11 OF 18	23186-WXO
JOB ORDER NUMBER	231-203-0067-0783
SHEET 11 OF 44	DRAWING NUMBER
	2023-2714
FILE NO.:	

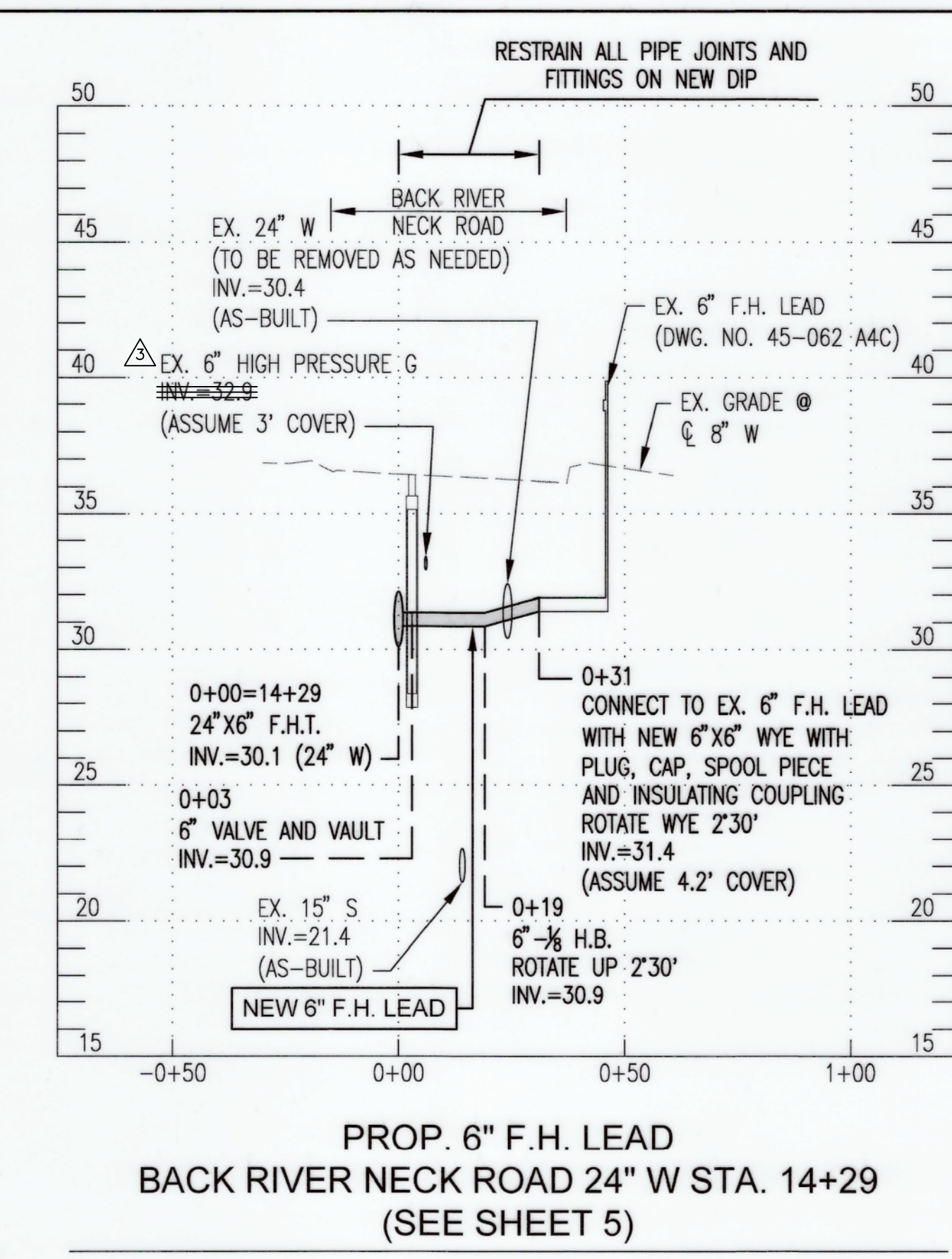
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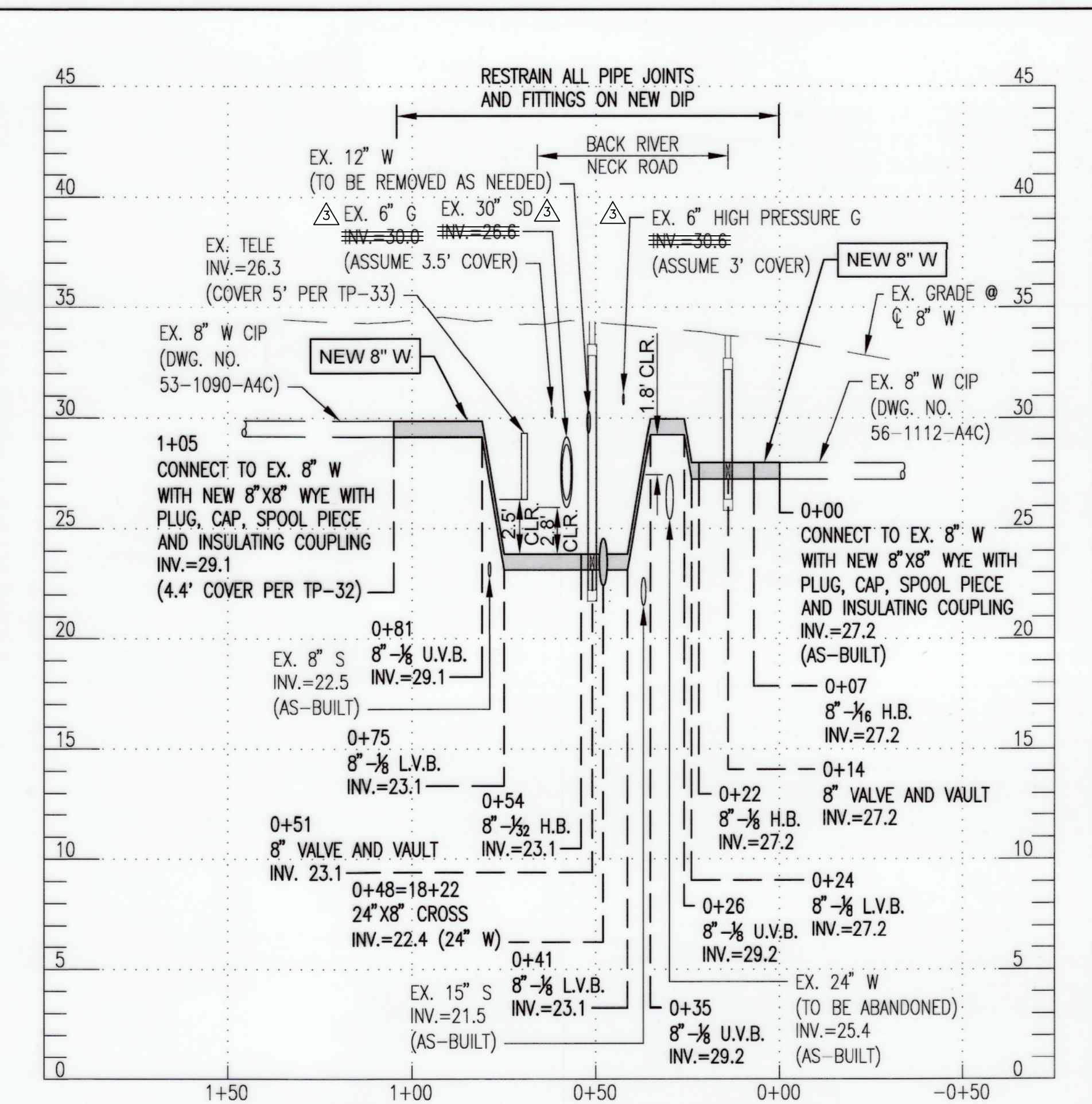
PROP. 6" F.H. LEAD
BACK RIVER NECK ROAD 24" W STA. 10+58
(SEE SHEET 5)
SCALE: 1"=30' HORZ.
1"=5' VERT.



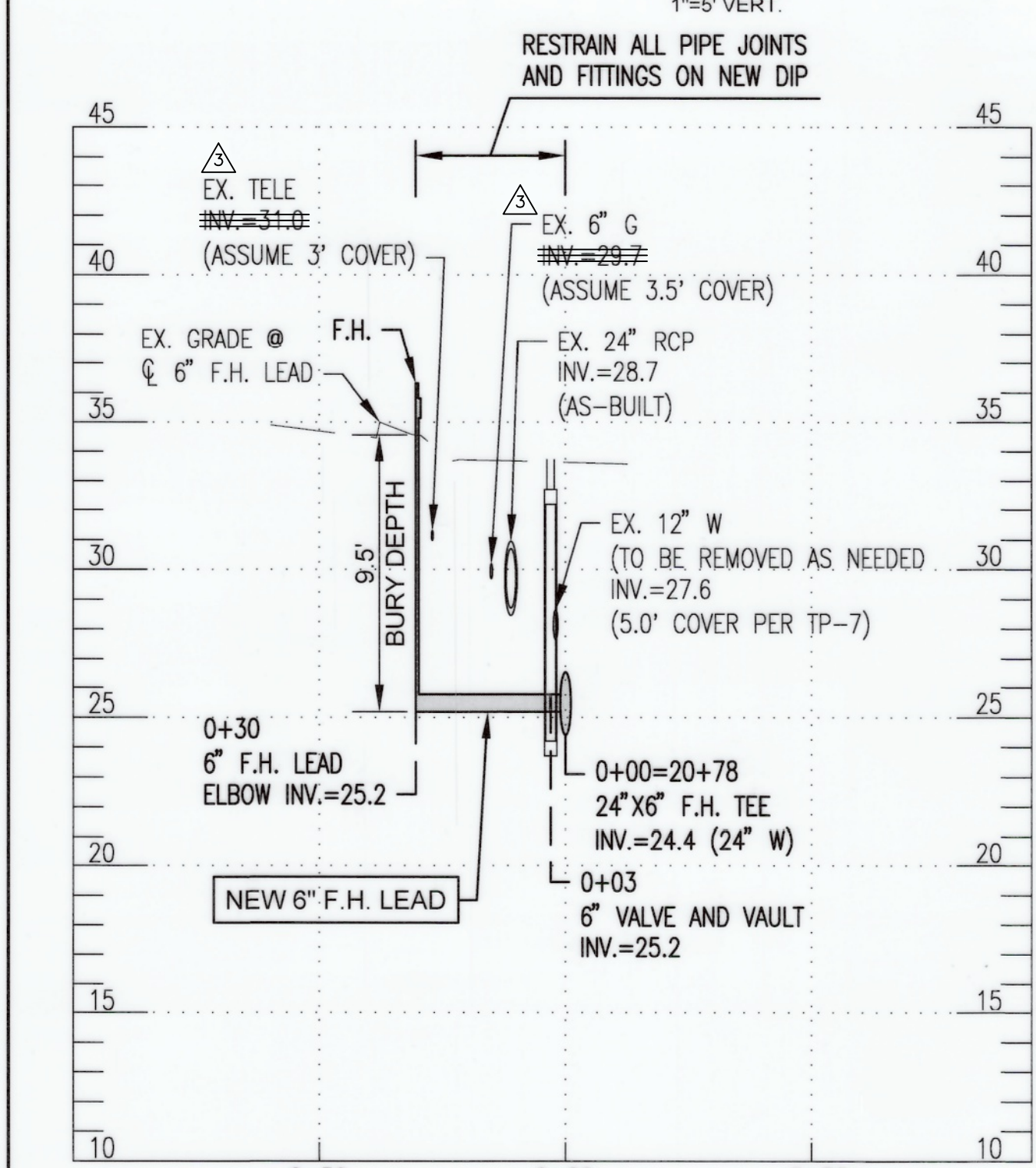
PROP. 8" WATER - FRENCH AVENUE
(SEE SHEET 5)
SCALE: 1"=30' HORZ.
1"=5' VERT.



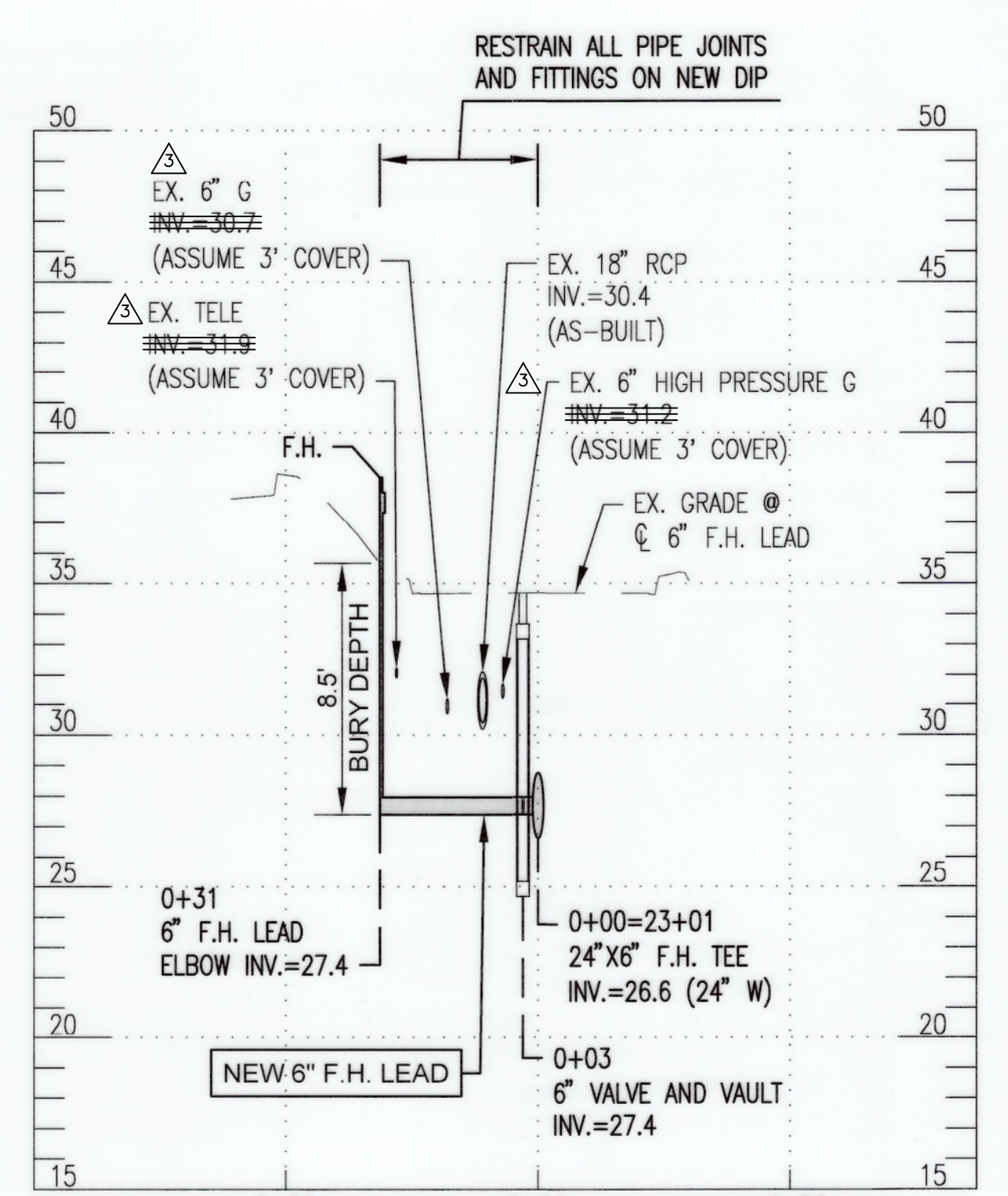
PROP. 6" F.H. LEAD
BACK RIVER NECK ROAD 24" W STA. 14+29
(SEE SHEET 5)
SCALE: 1"=30' HORZ.
1"=5' VERT.



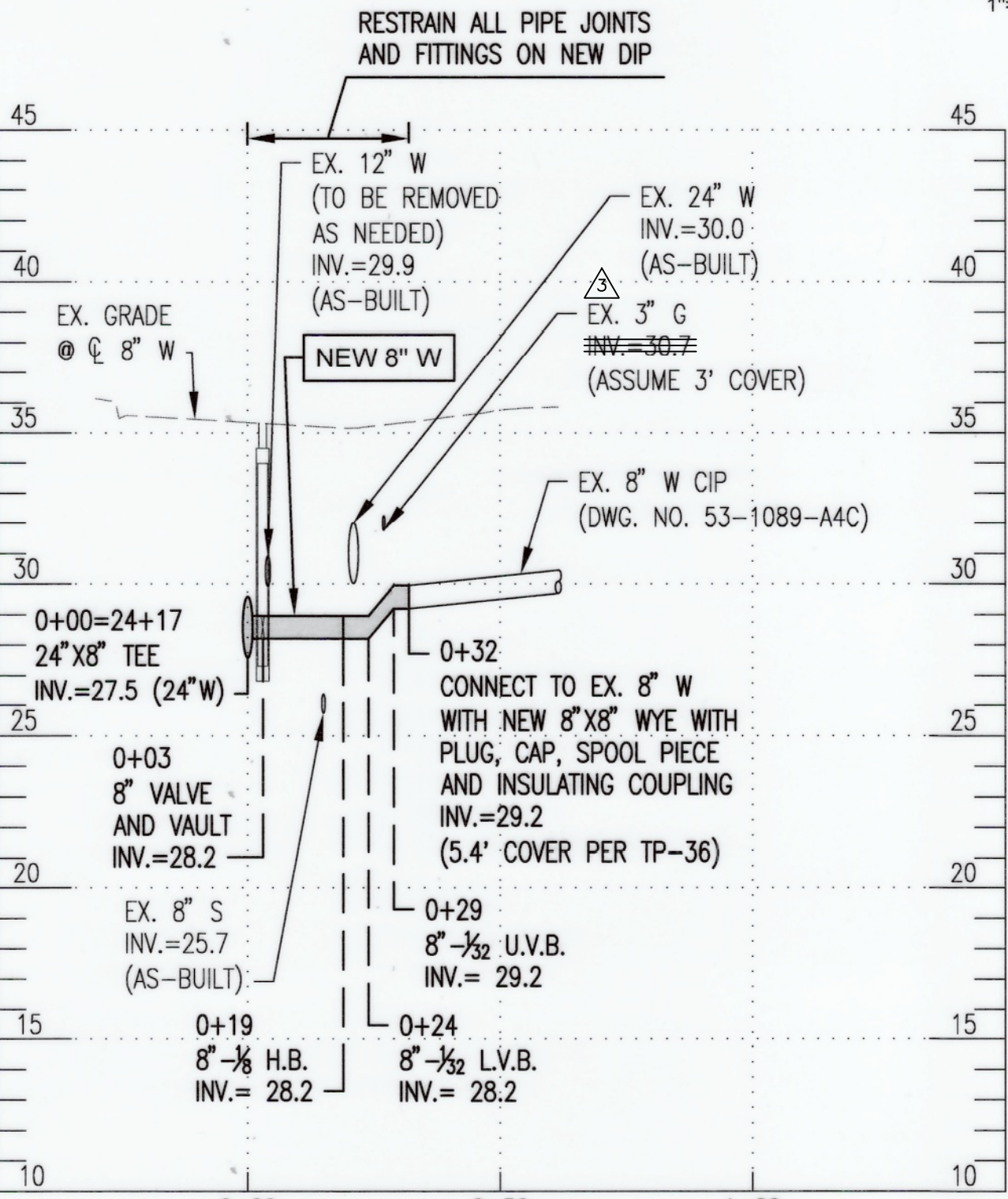
PROP. 8" WATER - WILLIAMS AVENUE
(SEE SHEET 6)
SCALE: 1"=30' HORZ.
1"=5' VERT.



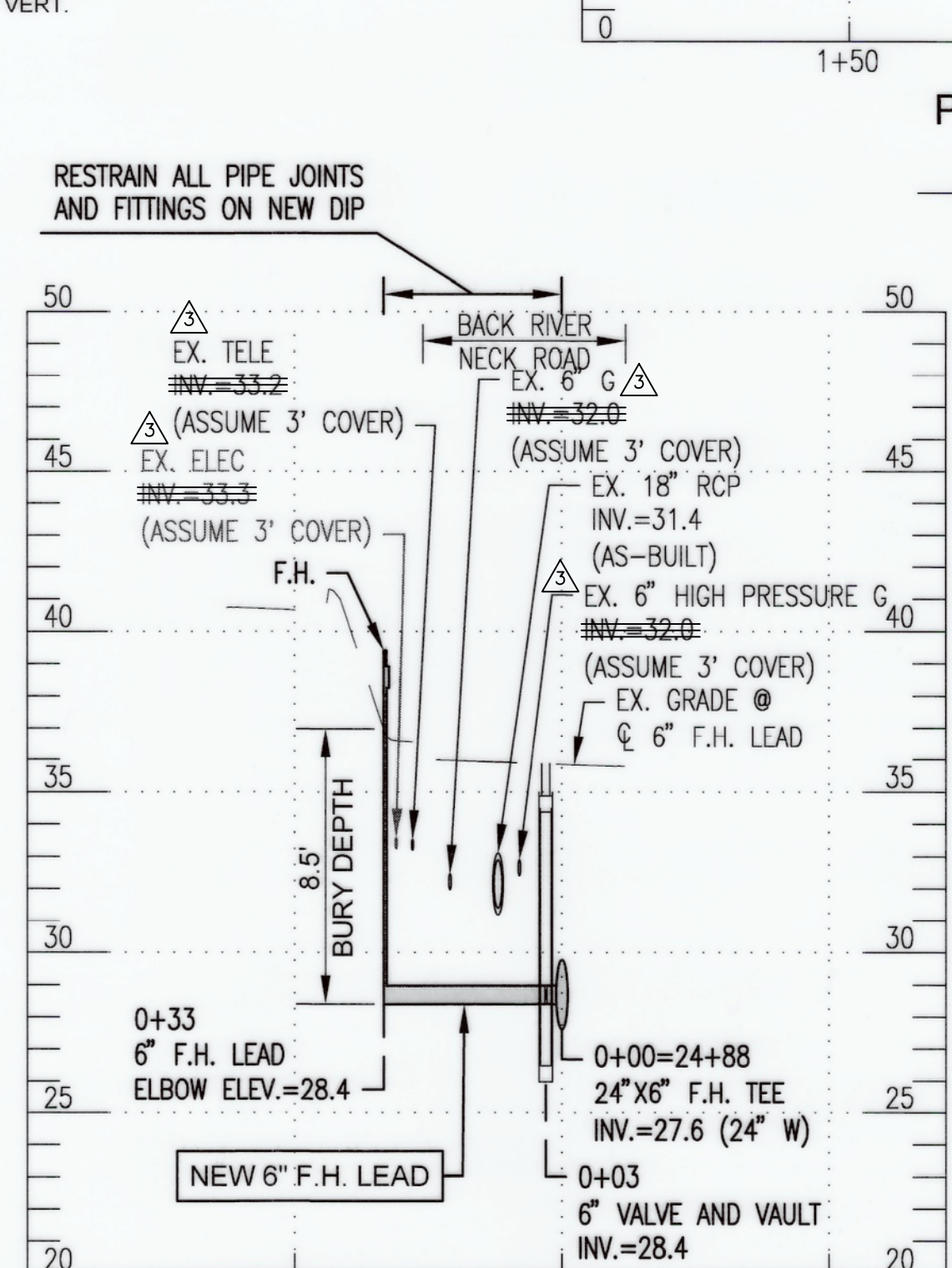
PROP. 6" F.H. LEAD
BACK RIVER NECK ROAD 24" W STA. 20+78
(SEE SHEET 6)
SCALE: 1"=30' HORZ.
1"=5' VERT.



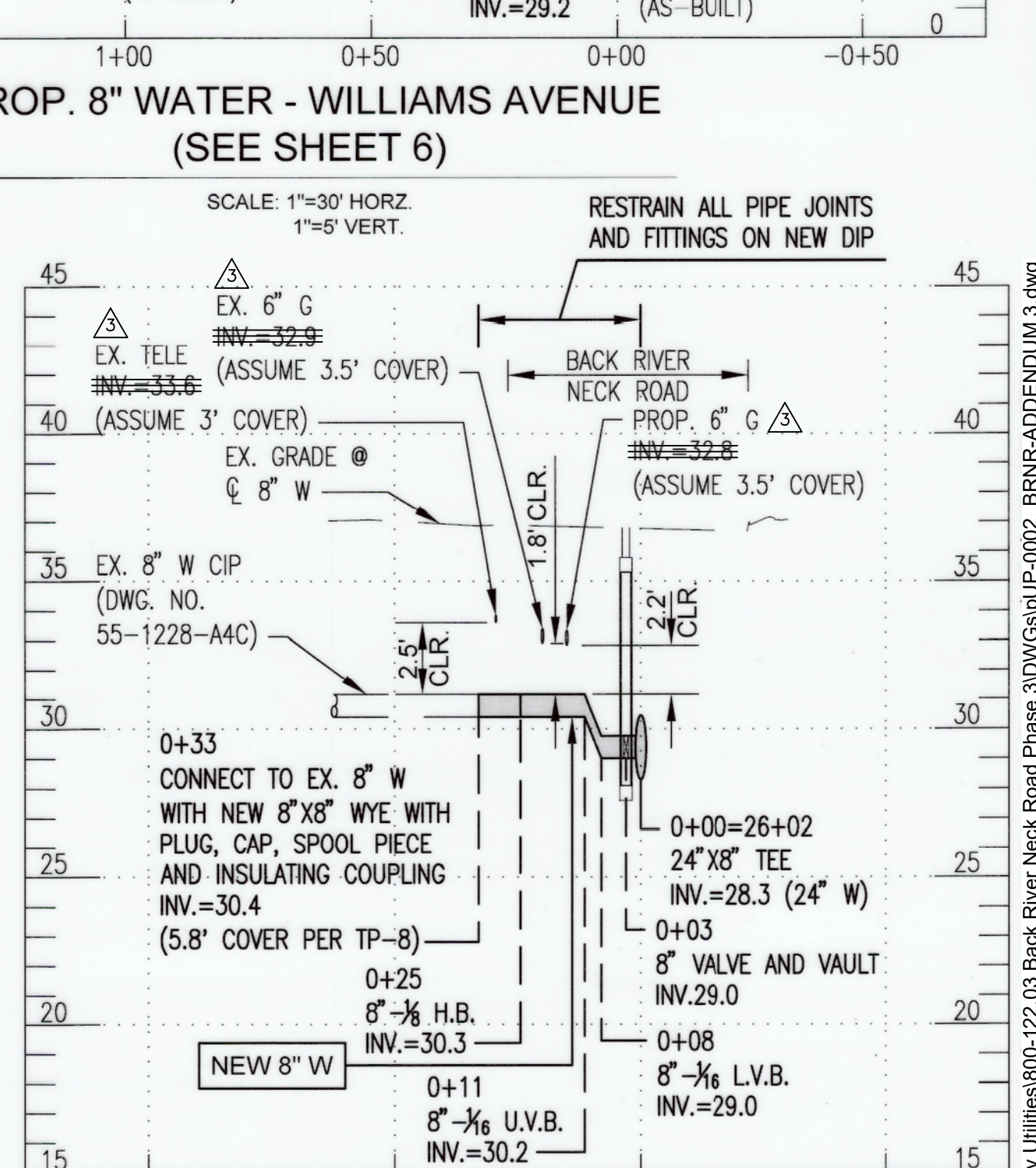
PROP. 6" F.H. LEAD
BACK RIVER NECK ROAD 24" W STA. 22+97
(SEE SHEET 7)
SCALE: 1"=30' HORZ.
1"=5' VERT.



PROFILE OF 8" W - TRIPGATE ROAD
(SEE SHEET 7)
SCALE: 1"=30' HORZ.
1"=5' VERT.



PROP. 6" F.H. LEAD
BACK RIVER NECK ROAD 24" W STA. 24+88
(SEE SHEET 7)
SCALE: 1"=30' HORZ.
1"=5' VERT.



PROP. 8" WATER - POLES ROAD
(SEE SHEET 7)
SCALE: 1"=30' HORZ.
1"=5' VERT.

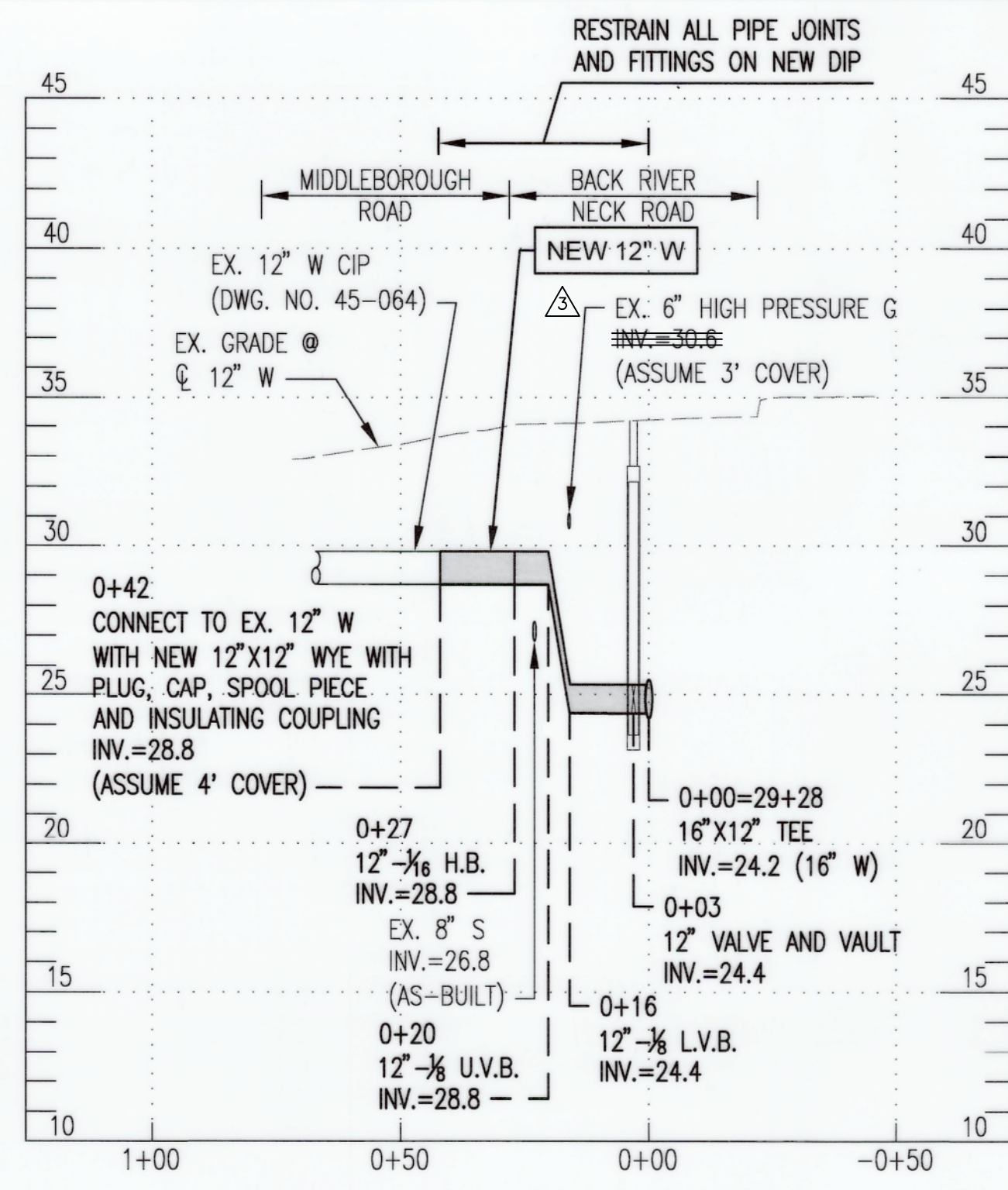
CITY OF BALTIMORE	REVISION - CITY OF BALTIMORE
SEE DRAWING 2023-2704 FOR ORIGINAL SIGNATURES	

SEAL	PROFESSIONAL CERTIFICATION		REVISION	BY	DATE	P.W.A. NO.	KEY SHEET	POSITION	SHT	DRAWING SCALE	DPW & TRANSPORTATION
	ENGINEER: SHAWN BURNETT THE WILSON T. BALLARD CO.	DESIGN BY: DS									
	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. 20816 EXPIRATION DATE 10/21/26		ADDENDUM 3	WTB	2/2/26					1"=30'	SEE DRAWING 2023-2704 FOR ORIGINAL SIGNATURES
	AS-BUILT PER RECORD PRINT	DRAWN BY: TL	BUREAU OF ENGINEERING AND CONSTRUCTION	BUILDINGS	HIGHWAYS	STRUCTURES	STORM DRAINS	SEWER	WATER	FIELD ENGINEER	BUR. OF ENGINEERING & CONSTRUCTION
DATE: 7-9-2025	BY: DATE:	CHKD BY: SB	REVIEWED BY:	SEE DRAWING 2023-2704 FOR ORIGINAL SIGNATURES				SEE DRAWING 2023-2704 FOR ORIGINAL SIGNATURES			

BALTIMORE COUNTY DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION BUREAU OF ENGINEERING & CONSTRUCTION
24-INCH AND 16-INCH WATER MAIN REPLACEMENT - PHASE 3
BACK RIVER NECK ROAD
FROM HOMBERG AVENUE TO NORTH OF HYDE PARK ROAD
SUBDIVISION: BACK RIVER NECK PROP. WATER MAIN BRANCH CONNECTIONS AND FIRE HYDRANT PROFILES ELECTION DIST. NO.: 15C7

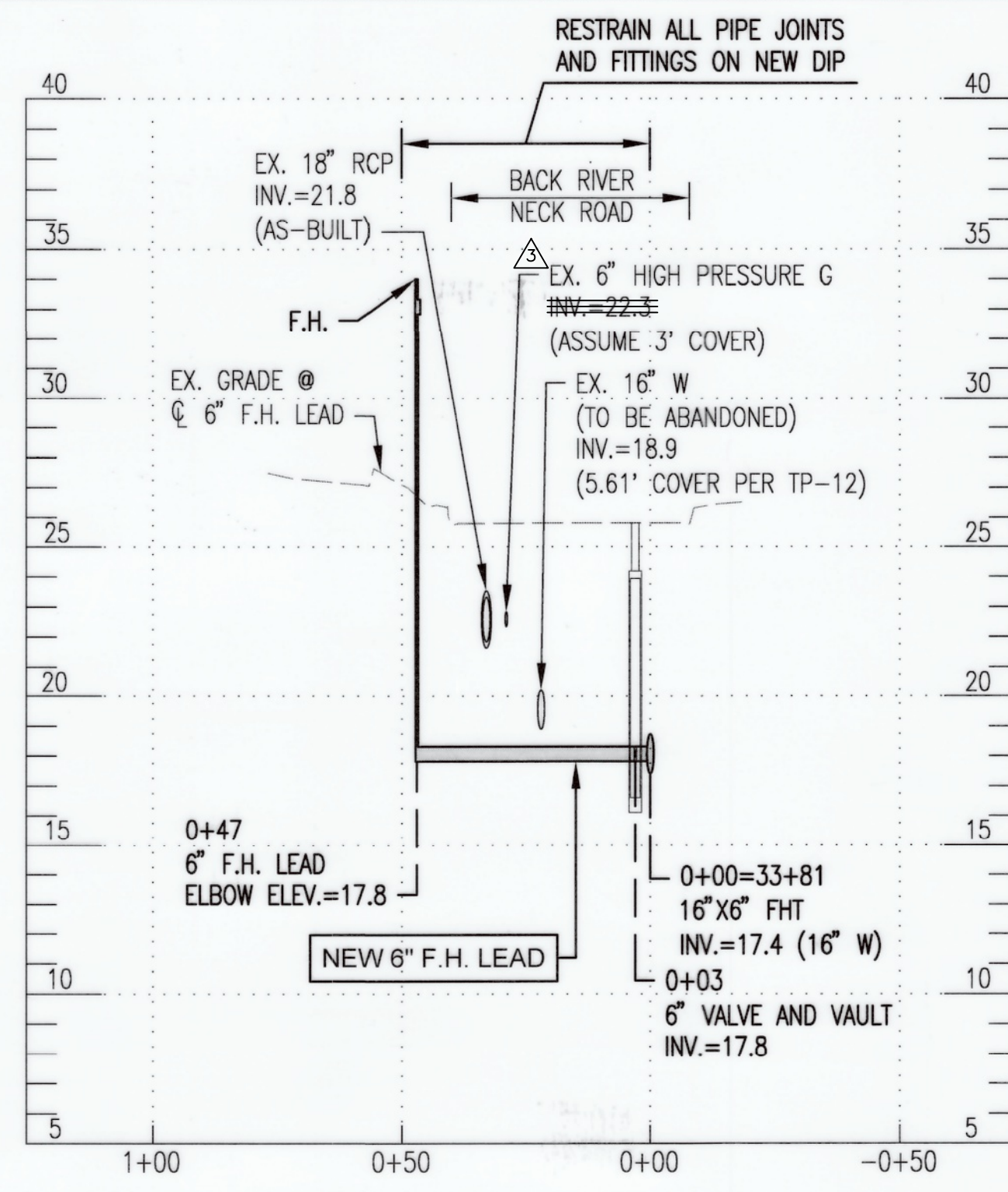
SHEET DESIGNATION	CONTRACT NUMBER
WATER SH 12 OF 18	23186-WXO
JOB ORDER NUMBER	231-203-0067-0783
SHEET 12 OF 44	DRAWING NUMBER
2023-2715	
FILE NO.:	

DWG. FILENAME: T:\Baltimore County Utilities\800-122-03 Back River Neck Road Phase 3\DWG\GripUP-0002_BRNK-ADDENDUM 3.dwg



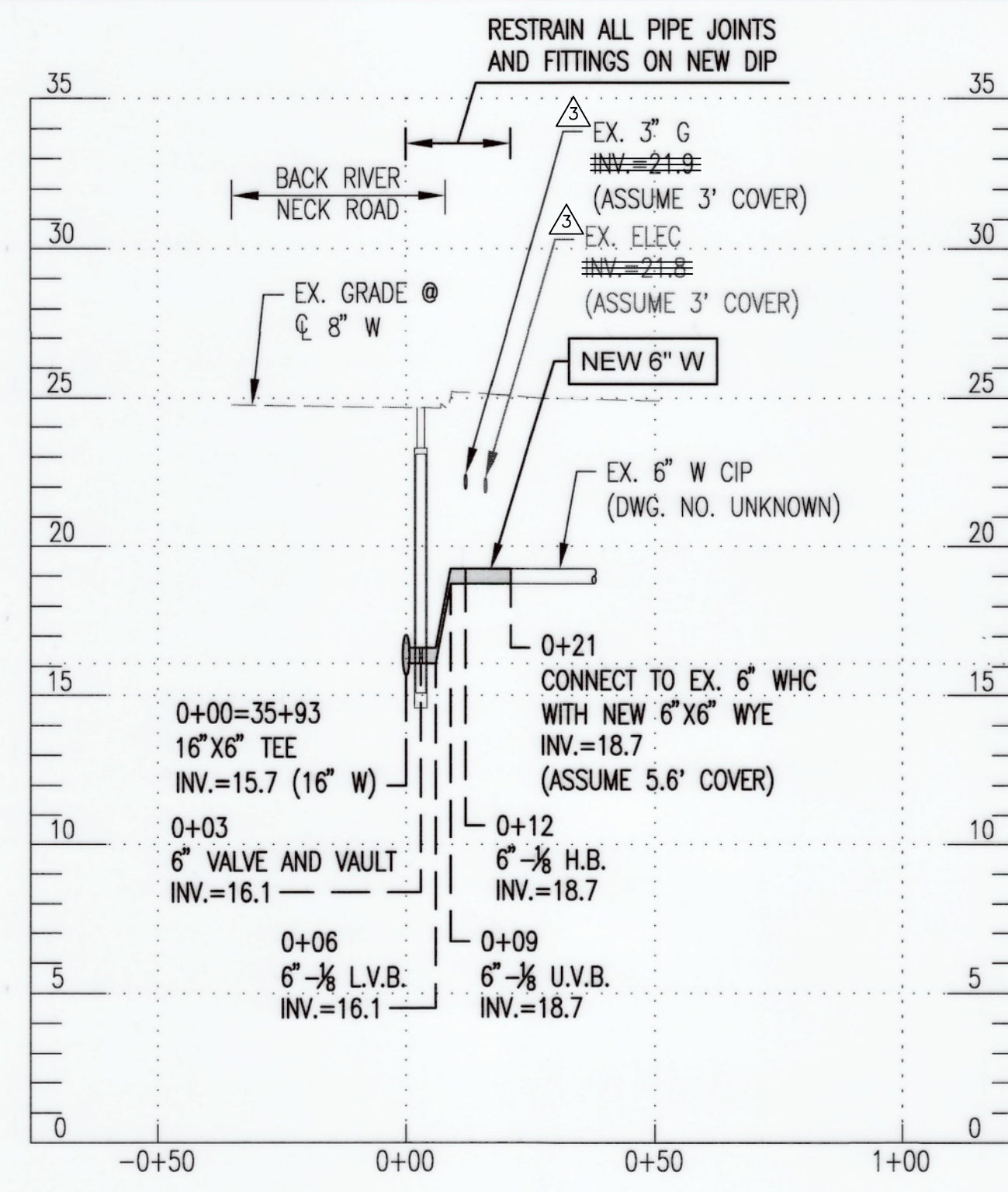
PROP. 12" WATER - MIDDLEBOROUGH ROAD (SEE SHEET 7)

SCALE: 1"=30' HORZ. 1"=5' VERT.



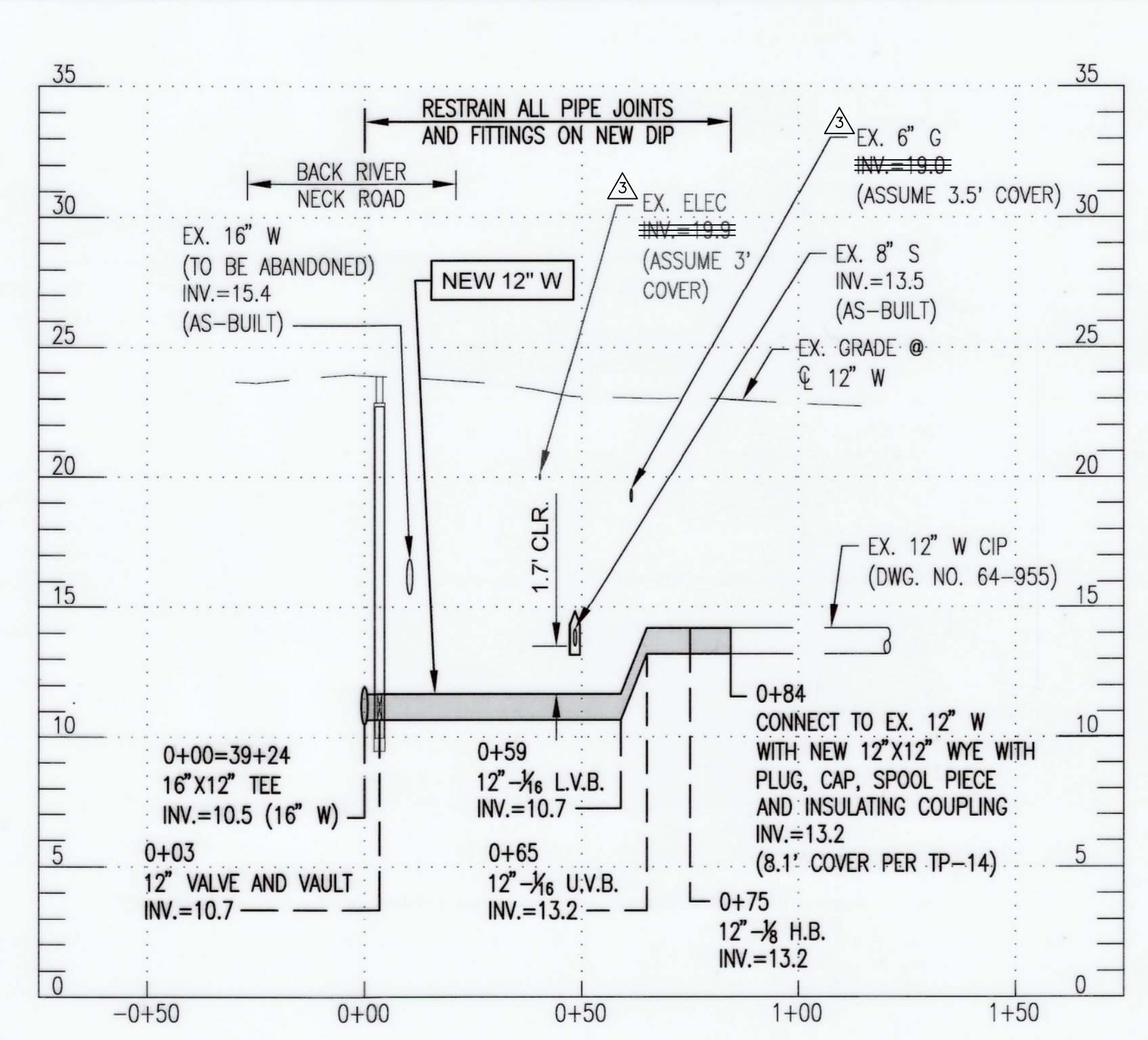
PROP. 6" F.H. LEAD BACK RIVER NECK ROAD 16" W STA. 33+81 (SEE SHEET 8)

SCALE: 1"=30' HORZ. 1"=5' VERT.



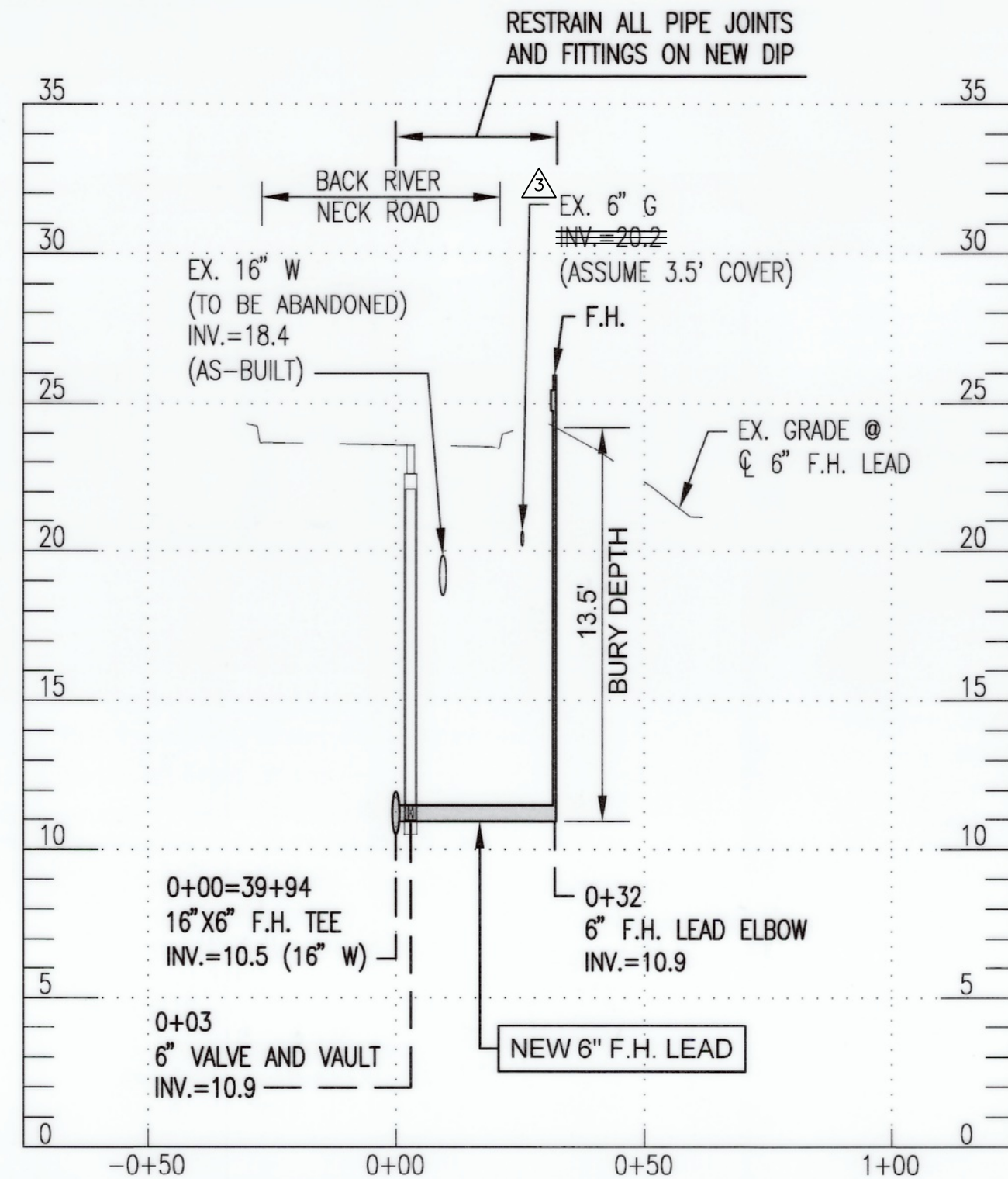
PROP. 6" WHC BACK RIVER NECK ROAD 16" W STA. 35+93 (SEE SHEET 8)

SCALE: 1"=30' HORZ. 1"=5' VERT.



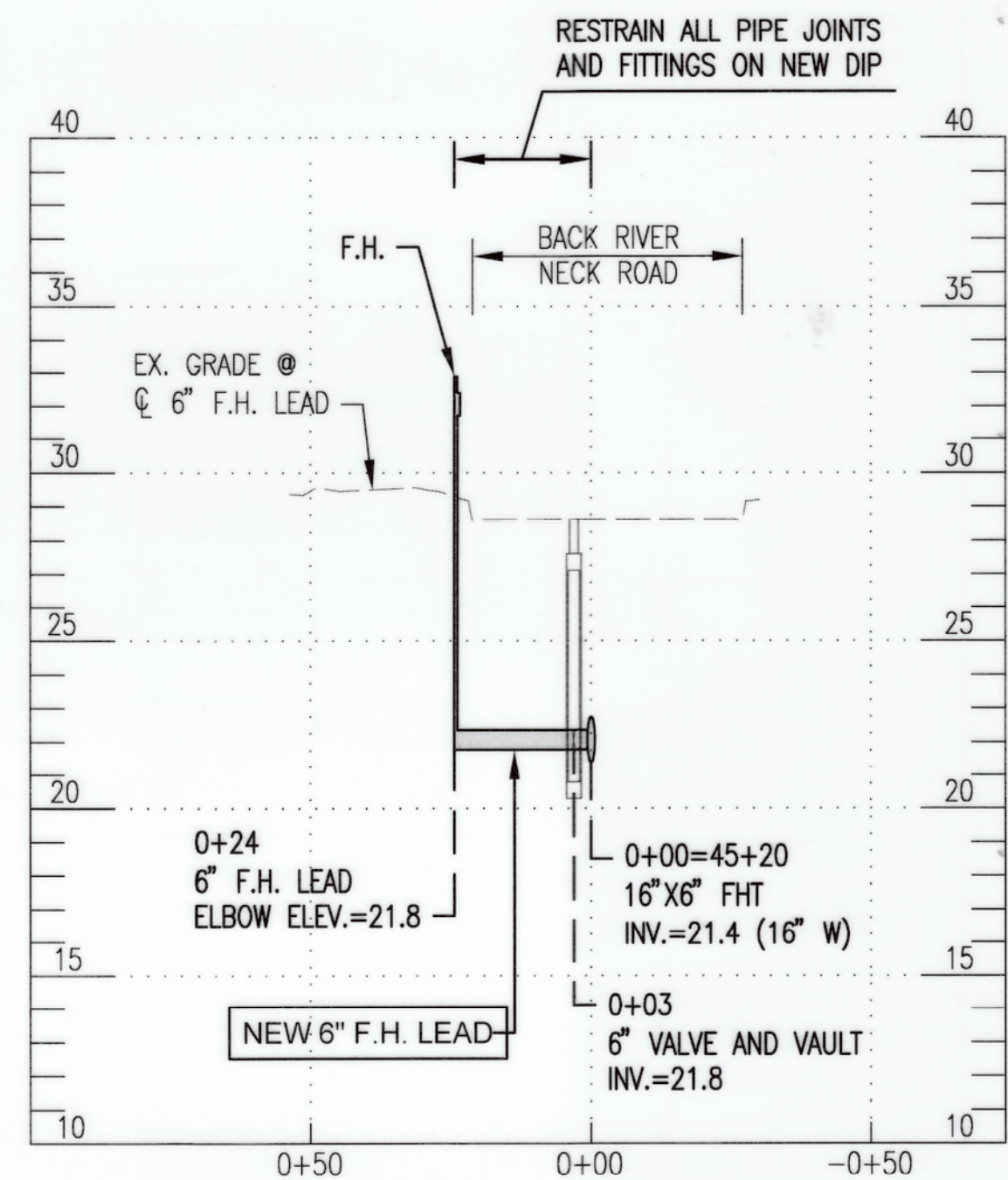
PROP. 12" WATER MIDDLEBOROUGH ROAD/BACK RIVER NECK ROAD 16" W STA. 39+24 (SEE SHEET 9)

SCALE: 1"=30' HORZ. 1"=5' VERT.



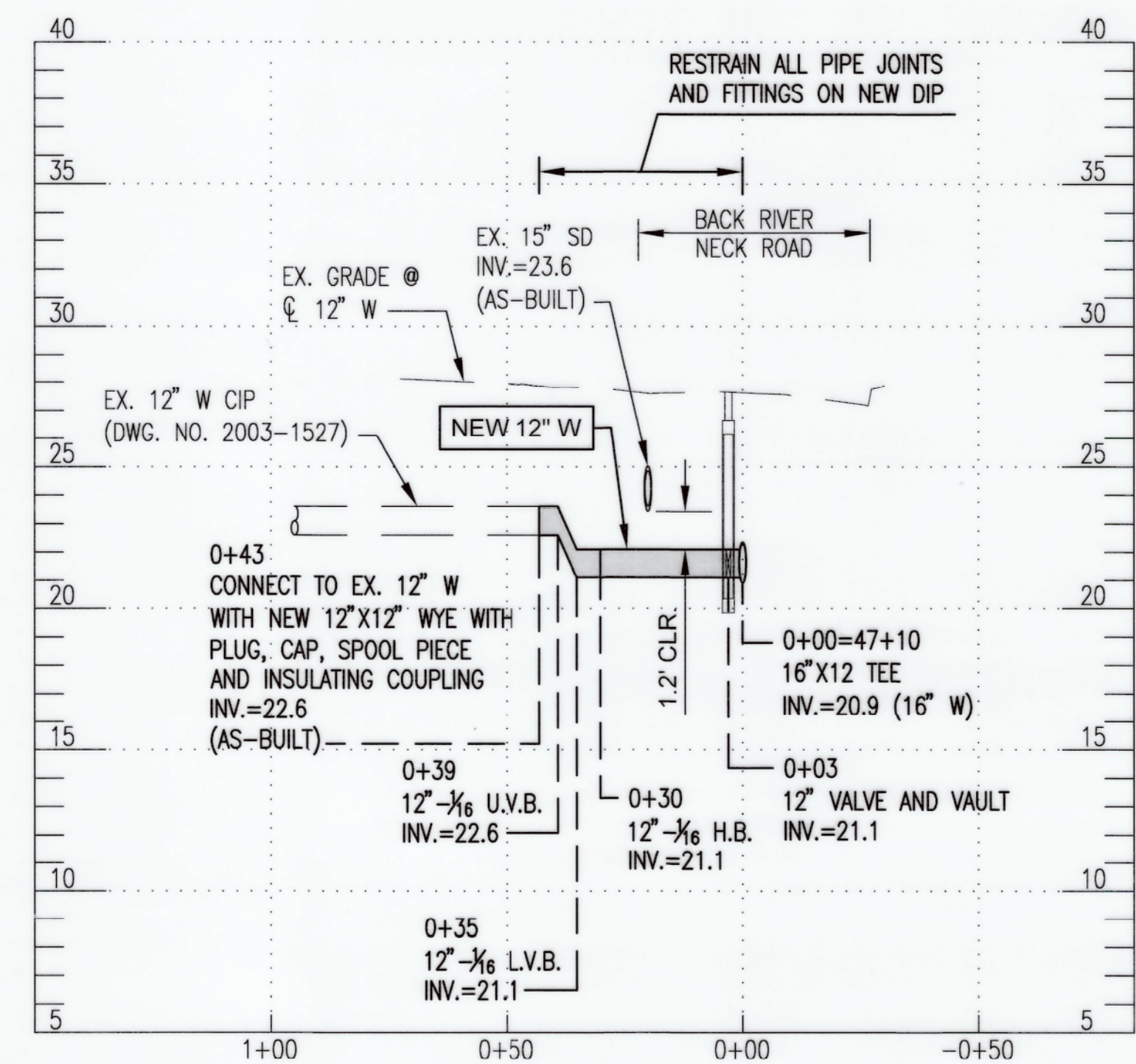
PROP. 6" F.H. LEAD BACK RIVER NECK ROAD 16" W STA. 39+94 (SEE SHEET 9)

SCALE: 1"=30' HORZ. 1"=5' VERT.



PROP. 6" F.H. LEAD BACK RIVER NECK ROAD 16" W STA. 45+20 (SEE SHEET 10)

SCALE: 1"=30' HORZ. 1"=5' VERT.



PROP. 12" WATER - BROWNS ROAD (SEE SHEET 10)

SCALE: 1"=30' HORZ. 1"=5' VERT.

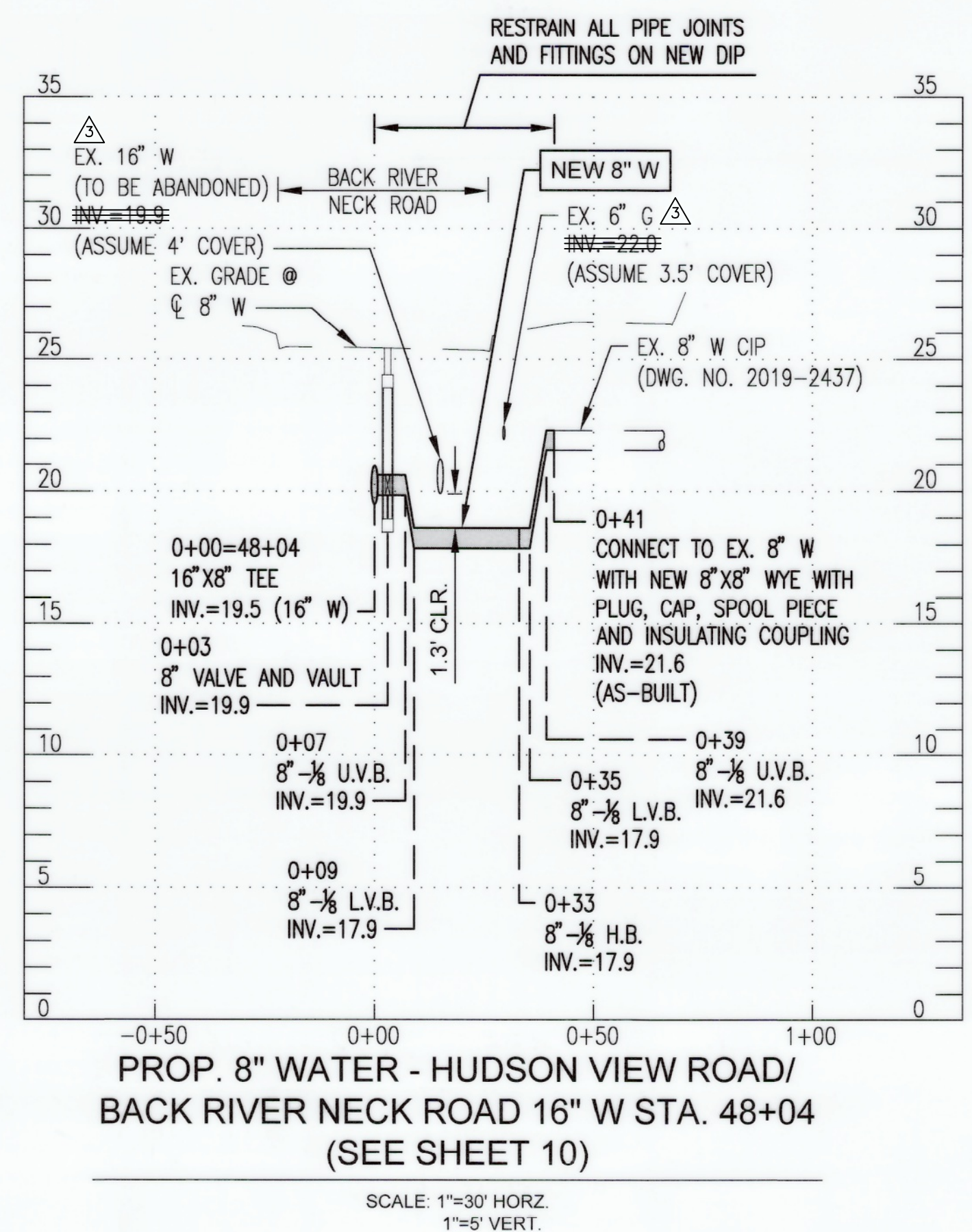
CITY OF BALTIMORE	REVISION - CITY OF BALTIMORE
SEE DRAWING 2023-2704 FOR ORIGINAL SIGNATURES	

SEAL	PROFESSIONAL CERTIFICATION	REVISION	BY	DATE	P.W.A. NO.	KEY SHEET	POSITION	SHT	DRAWING SCALE	DPW & TRANSPORTATION
	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. 20815 EXPIRATION DATE 10/21/26	3	WTB	2/2/26					1"=30'	SEE DRAWING 2023-2704 FOR ORIGINAL SIGNATURES BUREAU OF ENGINEERING AND CONSTRUCTION BUILDINGS HIGHWAYS STRUCTURES STORM DRAINS SEWER WATER FIELD ENGINEER BUR. OF ENGINEERING & CONSTRUCTION
		ADDENDUM 3								
ENGINEER: SHAWN BURNETT THE WILSON T. BALLARD CO. DESIGN BY: DS BUREAU OF ENGINEERING AND CONSTRUCTION AS-BUILT PER RECORD PRINT DRAWN BY: TL REVIEWED BY: BY: DATE: CHECK BY: SB DATE REVIEWED: SEE DRAWING 2023-2704 FOR ORIGINAL SIGNATURES SEE DRAWING 2023-2704 FOR ORIGINAL SIGNATURES										

BALTIMORE COUNTY DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION BUREAU OF ENGINEERING & CONSTRUCTION
 24-INCH AND 16-INCH WATER MAIN REPLACEMENT - PHASE 3
 BACK RIVER NECK ROAD
 FROM HOMBERG AVENUE TO NORTH OF HYDE PARK ROAD
 SUBDIVISION: BACK RIVER NECK PROP. WATER MAIN BRANCH CONNECTIONS ARE FIRE HYDRANT PROFILES ELECTION DIST. NO.: 15C7

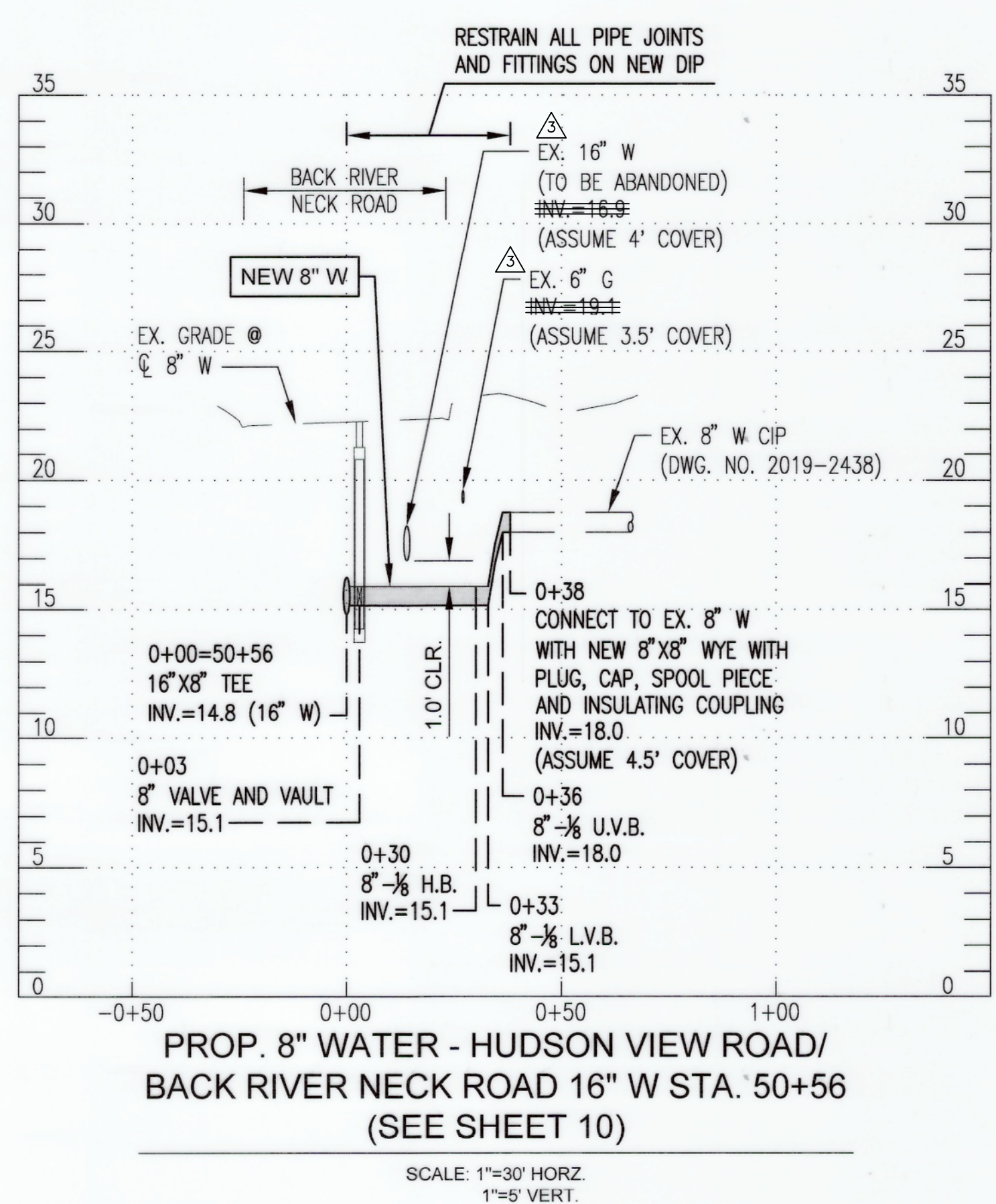
CONTRACT COMPLETION BOX	
CONTRACTOR:	
DATE COMPLETED:	
INSPECTOR:	
PIPE MATERIAL:	
CATHODIC PROTECTION SYSTEM METHOD (POTABLE WATER ONLY):	
<input type="checkbox"/> BONDED COATED PIPE	PIPE DIAMETER(S):
<input type="checkbox"/> 3/A - ZINC COATED PIPE	PIPE DIAMETER(S):
<input type="checkbox"/> WITH POLYETHYLENE ENCASUREMENT	PIPE DIAMETER(S):
<input type="checkbox"/> OTHER (SPECIFY):	PIPE DIAMETER(S):
SHEET DESIGNATION	CONTRACT NUMBER
WATER SH 13 OF 18	23186-WXO
JOB ORDER NUMBER	231-203-0067-0783
SHEET 13 OF 44	
DRAWING NUMBER	2023-2716
FILE NO.:	

DWG. FILENAME: T:\Baltimore County Utilities\800-122.03 Back River Neck Road Phase 3\DWG\Gulp\UP-0003_BRNR-ADDENDUM 3.dwg



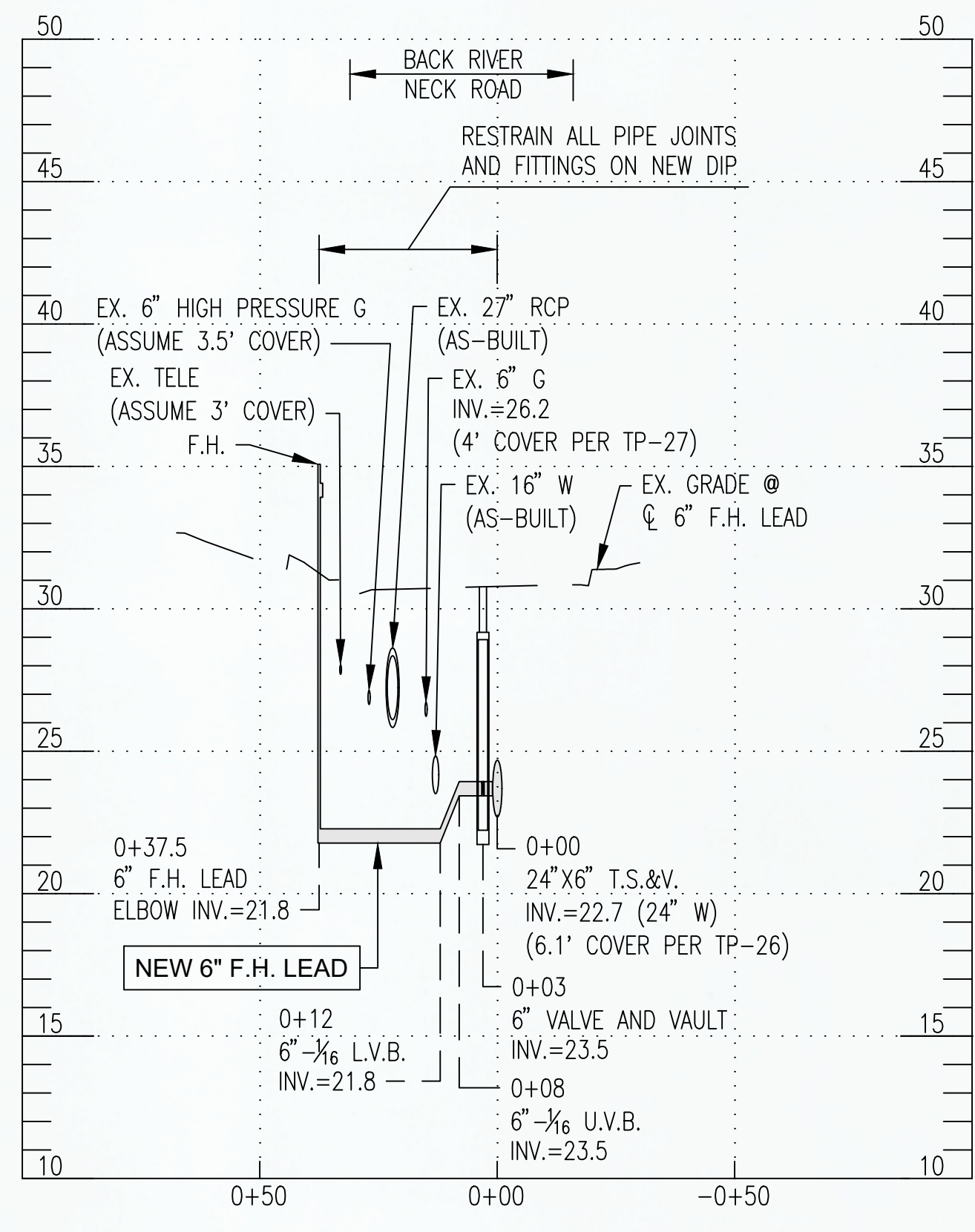
PROP. 8" WATER - HUDSON VIEW ROAD/
BACK RIVER NECK ROAD 16" W STA. 48+04
(SEE SHEET 10)

SCALE: 1"=30' HORZ.
1"=5' VERT.



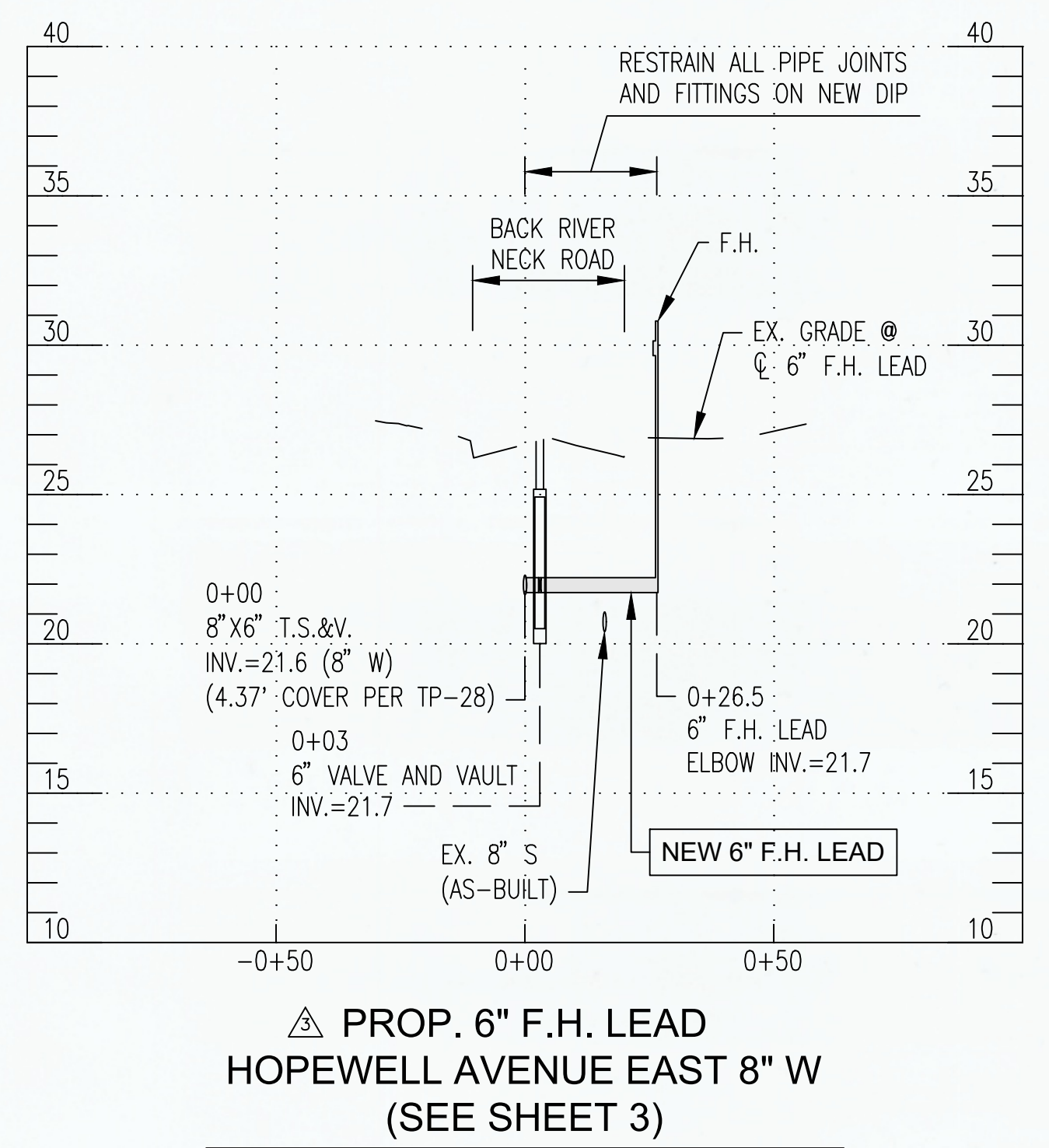
PROP. 8" WATER - HUDSON VIEW ROAD/
BACK RIVER NECK ROAD 16" W STA. 50+56
(SEE SHEET 10)

SCALE: 1"=30' HORZ.
1"=5' VERT.



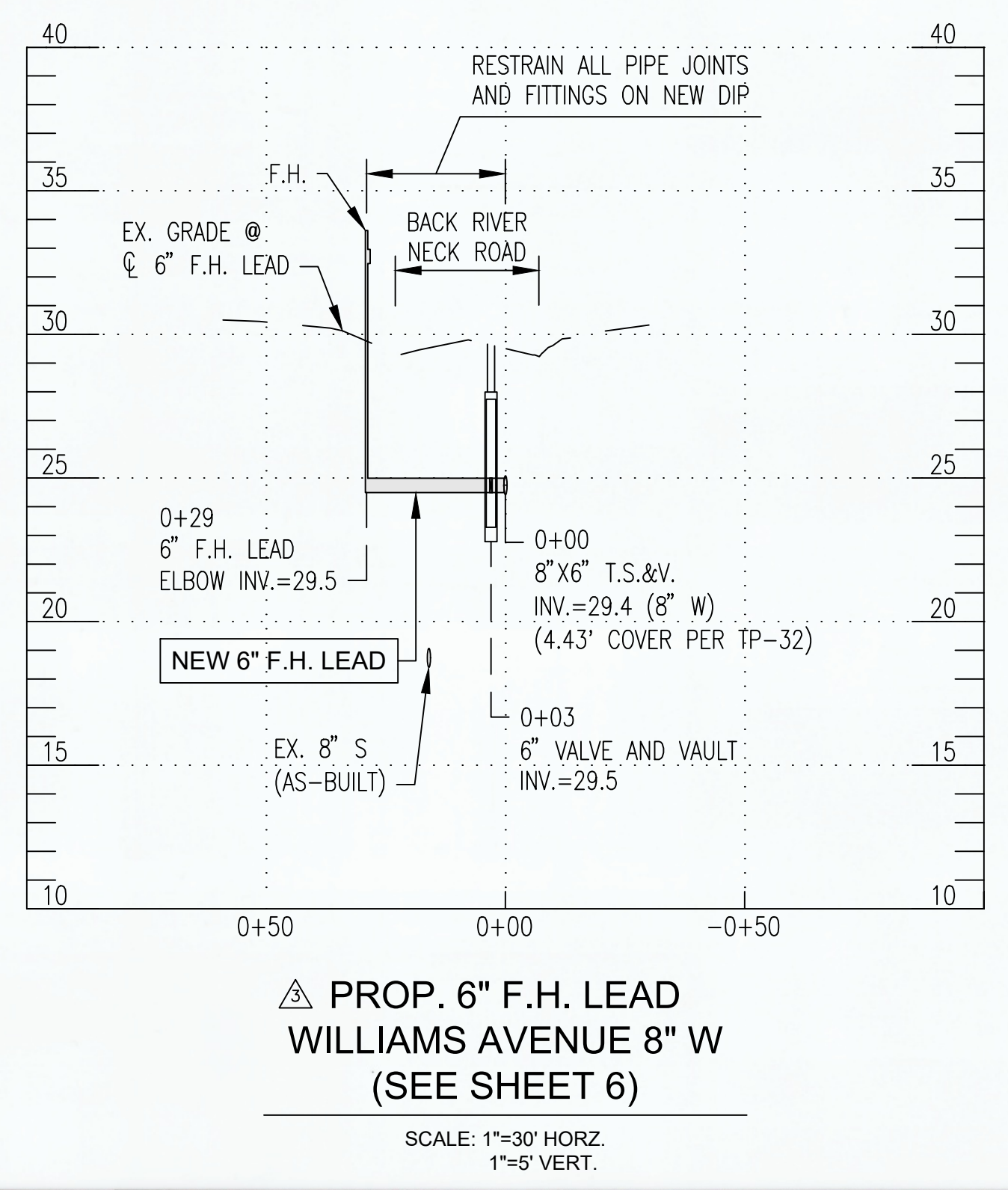
PROP. 6" F.H. LEAD
BACK RIVER NECK ROAD 24" W
(SEE SHEET 3)

SCALE: 1"=30' HORZ.
1"=5' VERT.



PROP. 6" F.H. LEAD
HOPEWELL AVENUE EAST 8" W
(SEE SHEET 3)

SCALE: 1"=30' HORZ.
1"=5' VERT.



PROP. 6" F.H. LEAD
WILLIAMS AVENUE 8" W
(SEE SHEET 6)

SCALE: 1"=30' HORZ.
1"=5' VERT.

CITY OF BALTIMORE	REVISION - CITY OF BALTIMORE
SEE DRAWING 2023-2704 FOR ORIGINAL SIGNATURES	

SEAL	PROFESSIONAL CERTIFICATION	REVISION	BY	DATE	P.W.A. NO.	KEY SHEET	POSITION	SHT	DRAWING SCALE	DPW & TRANSPORTATION
	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. 20615 EXPIRATION DATE 10/21/26	3	WTB	2/2/26						SEE DRAWING 2023-2704 FOR ORIGINAL SIGNATURES
		BUREAU OF ENGINEERING AND CONSTRUCTION	DESIGN BY: DS	CONSTRUCTION BY: TL	REVIEWED BY: SB	DATE REVIEWED:	SEE DRAWING 2023-2704 FOR ORIGINAL SIGNATURES	SEE DRAWING 2023-2704 FOR ORIGINAL SIGNATURES		

BALTIMORE COUNTY DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION BUREAU OF ENGINEERING & CONSTRUCTION
24-INCH AND 16-INCH WATER MAIN REPLACEMENT - PHASE 3
BACK RIVER NECK ROAD
FROM HOMBERG AVENUE TO NORTH OF HYDE PARK ROAD
SUBDIVISION: BACK RIVER NECK PROP. WATER MAIN BRANCH CONNECTIONS ARE FIRE HYDRANT PROFILES ELECTION DIST. NO.: 15C7

CONTRACT COMPLETION BOX	
CONTRACTOR:	
DATE COMPLETED:	
INSPECTOR:	
PIPE MATERIAL:	
CATHODIC PROTECTION SYSTEM METHOD (POTABLE WATER ONLY):	
BONDED COATED PIPE	PIPE DIAMETER(S):
3/A - ZINC COATED PIPE WITH POLYETHYLENE ENCASEMENT	PIPE DIAMETER(S):
OTHER (SPECIFY):	PIPE DIAMETER(S):

SHEET DESIGNATION	CONTRACT NUMBER
WATER SH 14 OF 18	23186-WX0
JOB ORDER NUMBER	231-203-0067-0783
SHEET 14 OF 44	DRAWING NUMBER
	2023-2717
FILE NO.:	



DWG. FILENAME: T:\Baltimore County Utilities\800-122-03 Back River Neck Road Phase 3\DWG\pup-0004-BRNR-ADDENDUM 3.dwg

WATER HOUSE CONNECTIONS									
STATION	SERVICE ADDRESS	EX. PROPERTY ID	EX. METER TYPE	EX. METER ID	EX. SIZE OF SERVICE	TYPE OF SERVICE	APPROX. PROP. LENGTH OF SERVICE (LF)	REMARKS/NOTES	EX. MATERIAL OF SERVICE LINE (TO BE VERIFIED BY CONTRACTOR)
0+18	100 BACK RIVER NECK ROAD	1516600841	DOMESTIC	54353649	1.5"	COMMERCIAL	24		
	103 BACK RIVER NECK ROAD	1511150972	DOMESTIC	76345798	3/4"	COMMERCIAL		FED FROM HOPEWELL AVENUE	
1+22	104 BACK RIVER NECK ROAD	1513108280	DOMESTIC	77886545	3/4"	COMMERCIAL	25		
1+73	104 BACK RIVER NECK ROAD	1513108280	DOMESTIC	77886545	3/4"	COMMERCIAL	24		
2+59	105 BACK RIVER NECK ROAD	1511150971	DOMESTIC	79854462	3/4"	COMMERCIAL	31		
4+61	113 BACK RIVER NECK ROAD	2200027639	DOMESTIC	79854287	3/4"	COMMERCIAL	28		
6+22	113 BACK RIVER NECK ROAD	2200027639	DETECTOR CHECK	60950276	2"	COMMERCIAL	34		
6+73	113 BACK RIVER NECK ROAD	2200027639	DETECTOR CHECK	60950276	2"	COMMERCIAL	36		
5+17	116 BACK RIVER NECK ROAD	1502201851	DOMESTIC	77886572	3/4"	RESIDENTIAL	27		
6+34	118 BACK RIVER NECK ROAD	1519322371	DOMESTIC		3/4"	COMMERCIAL	23		
6+62	118 BACK RIVER NECK ROAD	1519071520	DOMESTIC		1.5"	COMMERCIAL	23		
7+53	119 BACK RIVER NECK ROAD	1526750130	DOMESTIC	79657028	1.5"	COMMERCIAL	34		
8+99	121 BACK RIVER NECK ROAD	1504750380	DOMESTIC	79854459	3/4"	RESIDENTIAL	16		
8+76	122 BACK RIVER NECK ROAD	1503473891			3/4"	COMMERCIAL	42		
10+18	123 BACK RIVER NECK ROAD	1503473890	DOMESTIC	77893598	1"	COMMERCIAL	15		
	125 BACK RIVER NECK ROAD	1512001800	DOMESTIC	999999999	3/4"	ABANDONED	N/A		
11+08	127 BACK RIVER NECK ROAD	1508651382	DOMESTIC	79854463	3/4"	COMMERCIAL	14		
12+08	129 BACK RIVER NECK ROAD	1513551170	DOMESTIC	81542423	3/4"	COMMERCIAL	16		
12+50	129 BACK RIVER NECK ROAD	1513551170	DOMESTIC	79856837	3/4"	COMMERCIAL	15		
14+22	137 BACK RIVER NECK ROAD	1514900021	DOMESTIC	79400634	1"	COMMERCIAL	21		
12+96	140 BACK RIVER NECK ROAD	1516601360	DOMESTIC	77886499	3/4"	COMMERCIAL	37		
16+62	143 BACK RIVER NECK ROAD	1519850541	DETECTOR CHECK	79854458	3/4"	COMMERCIAL	23		
	145 BACK RIVER NECK ROAD	1519001266	DETECTOR CHECK	60950166	2"	COMMERCIAL		FED FROM WILLIAMS AVENUE	
16+10	146 BACK RIVER NECK ROAD	1503770410	DOMESTIC	77893550	3/4"	COMMERCIAL	37		
19+46	149 BACK RIVER NECK ROAD	1600005211	DOMESTIC	79854460	3/4"	COMMERCIAL	24		
16+51	150 BACK RIVER NECK ROAD	1513204692	DOMESTIC	78007513	3/4"	COMMERCIAL	36		
20+38	151 BACK RIVER NECK ROAD	1519001261	DOMESTIC	79856205	3/4"	COMMERCIAL	26		
17+12	152 BACK RIVER NECK ROAD	1512590830	DOMESTIC	77893600	1"	COMMERCIAL	36		
	200 BACK RIVER NECK ROAD	1519610923	DOMESTIC	79856839	3/4"	COMMERCIAL		FED FROM WILLIAMS AVENUE	
21+60	201 BACK RIVER NECK ROAD	2100007493	DOMESTIC	60908604	2"	COMMERCIAL	32		
23+04	202 BACK RIVER NECK ROAD	1519270860	DOMESTIC	78007946	3/4"	COMMERCIAL	29		
	205 BACK RIVER NECK ROAD	2100007492	DOMESTIC	01104985	2"	COMMERCIAL		FED FROM POLES ROAD	
24+55	206 BACK RIVER NECK ROAD	1507582030	DOMESTIC	77886543	3/4"	RESIDENTIAL	31		
25+89	208 BACK RIVER NECK ROAD	1523750010	DOMESTIC	77877755	3/4"	RESIDENTIAL	25		
26+13	214 BACK RIVER NECK ROAD	1507582031	DOMESTIC	77886501	3/4"	COMMERCIAL	26		
27+93	214 BACK RIVER NECK ROAD	1507582031	DOMESTIC	77886642	3/4"	COMMERCIAL	27		
28+04	215 BACK RIVER NECK ROAD	1900005397	DOMESTIC	26074207	3/4"	COMMERCIAL	28		
29+00	224 BACK RIVER NECK ROAD	1519910440	DOMESTIC	77893584	1"	RESIDENTIAL	26		
30+43	226 BACK RIVER NECK ROAD	1700001816	DOMESTIC	77886538	3/4"	RESIDENTIAL	13		
36+10	313 BACK RIVER NECK ROAD	1700013589	DETECTOR CHECK	60876085	2"	COMMERCIAL	50		
41+07	329 BACK RIVER NECK ROAD	1512200120	DOMESTIC	77886508	3/4"	RESIDENTIAL	31		
42+88	330 BACK RIVER NECK ROAD	1523501590	DOMESTIC	77886565	3/4"	RESIDENTIAL	24		
42+07	331 BACK RIVER NECK ROAD	2200011163	DOMESTIC		3/4"	RESIDENTIAL	34		
43+00	333 BACK RIVER NECK ROAD	1507000980	DOMESTIC	77886537	3/4"	RESIDENTIAL	32		
44+47	334 BACK RIVER NECK ROAD	2500016136	DOMESTIC	24766844	3/4"	RESIDENTIAL	32		
43+92	335 BACK RIVER NECK ROAD	1502651130	DOMESTIC	77886513	3/4"	RESIDENTIAL	24		
45+10	336 BACK RIVER NECK ROAD	2500016135	DOMESTIC		3/4"	RESIDENTIAL	31		
45+17	337 BACK RIVER NECK ROAD	1516900161	DOMESTIC	77886510	3/4"	RESIDENTIAL	27		
45+55	338 BACK RIVER NECK ROAD	1513203610	DOMESTIC	77886535	3/4"	RESIDENTIAL	31		
46+29	340 BACK RIVER NECK ROAD	2500016134	DOMESTIC		3/4"	RESIDENTIAL	31		
46+93	342 BACK RIVER NECK ROAD	2500016133	DOMESTIC		3/4"	RESIDENTIAL	31		
48+75	345 BACK RIVER NECK ROAD	2300008222	DOMESTIC	77886528	3/4"	RESIDENTIAL	26		
49+86	347/349 BACK RIVER NECK ROAD	2200002930	DOMESTIC	77886516	1"	RESIDENTIAL	27		
50+34	351 BACK RIVER NECK ROAD	1513550970	DOMESTIC	77886573	3/4"	RESIDENTIAL	28		
51+01	353 BACK RIVER NECK ROAD	1503232040	DOMESTIC	77886550	3/4"	RESIDENTIAL	31		

BILL OF MATERIALS (SEE SHEET 7)		
QUANTITY	DESCRIPTION	SIZE
663 L.F.	DUCTILE IRON PIPE	24"
87 L.F.	DUCTILE IRON PIPE	16"
42 L.F.	DUCTILE IRON PIPE	12"
65 L.F.	DUCTILE IRON PIPE	8"
64 L.F.	DUCTILE IRON PIPE	6"
26 L.F.	COPPER	1"
166 L.F.	COPPER	3/4"
6 EA.	TAP AND CORP STOP	3/4"
1 EA.	TAP AND CORP STOP	1"
2 EA.	1/8 BEND	16"
2 EA.	1/8 BEND	12"
1 EA.	1/16 BEND	12"
2 EA.	1/8 BEND	8"
2 EA.	1/16 BEND	8"
2 EA.	TEE	24"X8"
2 EA.	TEE	24"X6"
1 EA.	TEE	16"X12"
1 EA.	REDUCER	24"X16"
1 EA.	VALVE AND VAULT	24"
1 EA.	VALVE AND VAULT	12"
2 EA.	VALVE AND VAULT	8"
2 EA.	VALVE AND VAULT	6"
1 EA.	FIRE HYDRANT	-
1 EA.	WYE	12"X12"
2 EA.	WYE	8"X8"
3 EA.	CAP	12"
2 EA.	CAP	8"
1 EA.	PLUG	12"
2 EA.	PLUG	8"
1 EA.	SLEEVE	12"
2 EA.	SLEEVE	8"
1 EA.	SPACER	12"
2 EA.	SPACER	8"
1 EA.	TAPPING SLEEVE	8"X6"

BILL OF MATERIALS (SEE SHEET 10)		
QUANTITY	DESCRIPTION	SIZE
719 L.F.	DUCTILE IRON PIPE	16"
43 L.F.	DUCTILE IRON PIPE	12"
79 L.F.	DUCTILE IRON PIPE	8"
24 L.F.	DUCTILE IRON PIPE	6"
27 L.F.	COPPER	1"
236 L.F.	COPPER	3/4"
8 EA.	TAP AND CORP STOP	3/4"
1 EA.	TAP AND CORP STOP	1"
2 EA.	1/32 BEND	16"
1 EA.	1/8 BEND	12"
2 EA.	1/16 BEND	12"
8 EA.	1/8 BEND	8"
1 EA.	TEE	16"X12"
2 EA.	TEE	16"X8"
1 EA.	TEE	16"X6"
1 EA.	VALVE AND VAULT	12"
2 EA.	VALVE AND VAULT	8"
1 EA.	VALVE AND VAULT	6"
1 EA.	FIRE HYDRANT	-
1 EA.	WYE	12"X12"
2 EA.	WYE	8"X8"
1 EA.	CAP	12"
2 EA.	CAP	8"
1 EA.	PLUG	12"
2 EA.	PLUG	8"
1 EA.	SLEEVE	16"
1 EA.	SLEEVE	12"
2 EA.	SLEEVE	8"
1 EA.	SPACER	16"
1 EA.	SPACER	12"
2 EA.	SPACER	8"
1 EA.	12" DIP TO HDPE ADAPTER	12"

WATER STAKEOUT TABLE BACK RIVER NECK ROAD 16" W (SHEET 10)		
STATION	NORTHING	EASTING
45+20 (16"X6" F.H.T.)	596346.83	1470959.63
47+10 (16"X12" TEE)	596187.81	1471062.88
48+04 (16"X8" TEE)	596114.03	1471122.06
50+56 (16"X8" TEE)	595907.44	1471266.19
51+49 (16"-1/32 HORZ. BEND)	595830.69	1471319.74
51+84 (16"-1/32 HORZ. BEND)	595798.97	1471333.63
52+11 (CONNECT TO EX. 16" W)	595777.77	1471349.89

WATER STAKEOUT TABLE BROWNS ROAD 12" W (SHEET 10)		
STATION	NORTHING	EASTING
0+00 (16"X12" TEE)	596187.81	1471062.88
0+03 (12" VALVE AND VAULT)	596190.63	1471068.61
0+30 (12"-1/8 HORZ. BEND)	596207.75	1471093.15
0+35 (12"-1/16 LOWER VERT. BEND)	596206.70	1471098.04
0+39 (12"-1/16 UPPER VERT. BEND)	596205.86	1471101.95
0+43 (WYE)	596205.10	1471105.51

WATER STAKEOUT TABLE HUDSON VIEW ROAD STA. 48+04 8" W (SHEET 10)		
STATION	NORTHING	EASTING
0+00 (16"X8" TEE)	596114.03	1471122.06
0+03 (8" VALVE AND VAULT)	595905.72	1471263.73
0+07 (8"-1/8 UPPER VERT. BEND)	595903.21	1471260.50
0+09 (8"-1/8 LOWER VERT. BEND)	595901.95	1471258.69
0+33 (8"-1/8 HORZ. BEND)	595890.33	1471241.68
0+35 (8"-1/8 LOWER VERT. BEND)	595890.69	1471239.71
0+39 (8"-1/8 UPPER VERT. BEND)	595891.39	1471235.77
0+41 (WYE)	595891.68	1471234.12

WATER STAKEOUT TABLE HUDSON VIEW ROAD STA. 50+56 8" W (SHEET 10)		
STATION	NORTHING	EASTING
0+00 (16"X8" TEE)	595907.44	1471266.19
0+03 (8" VALVE AND VAULT)	595905.72	1471263.55
0+30 (8"-1/8 HORZ. BEND)	595890.33	1471241.68
0+33 (8"-1/8 LOWER VERT. BEND)	595890.86	1471238.73
0+36 (8"-1/8 UPPER VERT. BEND)	595891.39	1471235.77
0+38 (WYE)	595891.68	1471234.12

CONTRACT COMPLETION BOX	
CONTRACTOR:	
DATE COMPLETED:	
INSPECTOR:	
PIPE MATERIAL:	
CATHODIC PROTECTION SYSTEM METHOD (POTABLE WATER ONLY):	
<input type="checkbox"/> BONDED COATED PIPE	PIPE DIAMETER(S):
<input type="checkbox"/> N/A - ZINC COATED PIPE	PIPE DIAMETER(S):
<input type="checkbox"/> WITH POLYETHYLENE ENCASEMENT	PIPE DIAMETER(S):
<input type="checkbox"/> OTHER (SPECIFY):	PIPE DIAMETER(S):

SHEET DESIGNATION	CONTRACT NUMBER
WATER SH 15 OF 18	23186-WXO
JOB ORDER NUMBER	231-203-0067-0783
SHEET 15 OF 44	
DRAWING NUMBER	2023-2718
FILE NO.:	

CITY OF BALTIMORE REVISION - CITY OF BALTIMORE
SEE DRAWING 2023-2704 FOR ORIGINAL SIGNATURES

SEAL	PROFESSIONAL CERTIFICATION	REVISION	BY	DATE	P.W.A. NO.	KEY SHEET	POSITION SHI	DRAWING SCALE	DPW & TRANSPORTATION
	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. 20815 EXPIRATION DATE 10/21/26 ENGINEER: SHAWN BURNETT THE WILSON T. BALLARD CO. AS-BUILT PER RECORD PRINT BY: DATE:	ADDENDUM 1	WTB	9/24/25				1"=50'	SEE DRAWING 2023-2704 FOR ORIGINAL SIGNATURES BALTIMORE COUNTY DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION BUREAU OF ENGINEERING & CONSTRUCTION 24-INCH AND 16-INCH WATER MAIN REPLACEMENT - PHASE 3 BACK RIVER NECK ROAD FROM HOMBERG AVENUE TO NORTH OF HYDE PARK ROAD SUBDIVISION: BACK RIVER NECK WATER HOUSE CONNECTIONS CHART AND MISCELLANEOUS TABLES
		ADDENDUM 3	WTB	2/2/26	R.O.W. NO.				
									SEE DRAWING 2023-2704 FOR ORIGINAL SIGNATURES

BALTIMORE COUNTY DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION BUREAU OF ENGINEERING & CONSTRUCTION
24-INCH AND 16-INCH WATER MAIN REPLACEMENT - PHASE 3
BACK RIVER NECK ROAD
FROM HOMBERG AVENUE TO NORTH OF HYDE PARK ROAD
SUBDIVISION: BACK RIVER NECK WATER HOUSE CONNECTIONS CHART AND MISCELLANEOUS TABLES ELECTION DIST. NO.: 15C7

DWG. FILENAME: T:\Baltimore County Utilities\00-122.03 Back River Neck Road Phase 3\DWG\PS-0010-BRRR.dwg

SUGGESTED SEQUENCE OF CONSTRUCTION

NOTES:

- COORDINATE WITH ALL ONGOING CONSTRUCTION IN THE PROJECT AREA (IF ANY) TO RESOLVE ANY ISSUES THAT WOULD BE IN CONFLICT WITH OTHER PROJECTS AND TRAFFIC CONTROLS.
- PEDESTRIAN ACCESS SHALL BE SAFELY MAINTAINED AT ALL TIMES.
- RESTRICT STREET PARKING IF NECESSARY DURING WORK HOURS.
- VERIFY LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTING WATER MAINS.
- TEST PIT CONNECTION LOCATIONS OF EXISTING WATER MAINS AND EXISTING UTILITY CROSSINGS.
- SHUT DOWNS SHALL BE LIMITED TO 8 HOURS UNLESS OTHERWISE DIRECTED BY BALTIMORE COUNTY DPW.

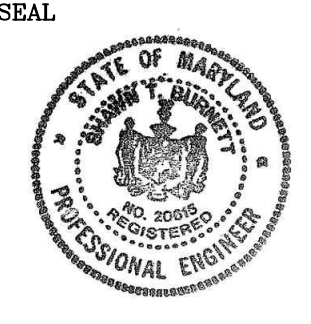
PHASE 1 INSTALLATION - BACK RIVER NECK ROAD STA. 0+00 - STA. 18+50, HOPEWELL AVENUE EAST, HOPEWELL AVENUE WEST, HOWARD AVENUE, FRENCHS AVENUE, WILLIAMS AVENUE

- AS SHOWN ON SHEET 3, INSTALL NEW FIRE HYDRANT ON BACK RIVER NECK ROAD NEAR HOMBERG AVENUE USING TAPPING SLEEVE AND VALVE.
- AS SHOWN ON SHEET 3, INSTALL NEW FIRE HYDRANT ON HOPEWELL AVENUE EAST USING TAPPING SLEEVE AND VALVE.
- AS SHOWN ON SHEETS 4 AND 6, INSTALL NEW FIRE HYDRANTS AT BACK RIVER NECK ROAD 24" W STA. 7+96, 26"R AND STA. 20+16, 32.5"R RESPECTIVELY USING TAPPING SLEEVES AND VALVES.
- AS SHOWN ON SHEET 6, INSTALL NEW FIRE HYDRANT ON WILLIAMS AVENUE USING TAPPING SLEEVE AND VALVE.
- AS SHOWN ON SHEET 7, INSTALL NEW FIRE HYDRANT ON TRIPGATE ROAD USING TAPPING SLEEVE AND VALVE.
- INSTALL TEMPORARY WATER SERVICE ALONG THE FOLLOWING STREETS (USE EX. FH-1 ON HOMBERG AVENUE, 2 NEWLY INSTALLED FIRE HYDRANTS ON BACK RIVER NECK ROAD AT HOMBERG AVENUE AND STA. 7+96, NEWLY INSTALLED FIRE HYDRANT ON HOPEWELL AVENUE EAST, EX. FH-4 ON HOWARD AVENUE, EX. FH-5 ON FRENCHS AVENUE, NEWLY INSTALLED FIRE HYDRANT ON WILLIAMS AVENUE, AND EX. FH-6 ON WILLIAMS AVENUE AS FEED SOURCES) INCLUDING LAYING THE PIPE, DISINFECTION, CHARGING THE TEMPORARY PIPE, CONNECTING THE SERVICES IN THE SEQUENCE, AND TEMPORARY FIRE HYDRANT INSTALLATION:
 - BACK RIVER NECK ROAD HOUSE NOS. 104 - 152, NOT INCLUDING 149 AND 151
- CLOSE THE FOLLOWING VALVES TO ISOLATE THE WATER MAIN:
 - VALVE EV-8 - BACK RIVER NECK ROAD AT HOPEWELL AVENUE EAST
- AS SHOWN ON SHEET 3 ON THE BYPASS PLANS IN THE SPECIFICATIONS, CUT AND CAP EXISTING MAIN PER DETAIL W-5A. CONNECT AND ACTIVATE TEMPORARY BYPASS ALONG HOPEWELL AVENUE EAST.
- CLOSE THE FOLLOWING VALVES TO ISOLATE THE WATER MAIN:
 - VALVE EV-9 - BACK RIVER NECK ROAD AT HOPEWELL AVENUE WEST
- AS SHOWN ON SHEET 4 ON THE BYPASS PLANS IN THE SPECIFICATIONS, CUT AND CAP EXISTING MAIN PER DETAIL W-5A. CONNECT AND ACTIVATE TEMPORARY BYPASS ALONG HOPEWELL AVENUE WEST.
- CLOSE THE FOLLOWING VALVES TO ISOLATE THE WATER MAIN:
 - VALVE EV-10 - BACK RIVER NECK ROAD AT HOWARD AVENUE
- AS SHOWN ON SHEET 4 ON THE BYPASS PLANS IN THE SPECIFICATIONS, CUT AND CAP EXISTING MAIN PER DETAIL W-5A. CONNECT AND ACTIVATE TEMPORARY BYPASS ALONG HOWARD AVENUE.
- CLOSE THE FOLLOWING VALVES TO ISOLATE THE WATER MAIN:
 - VALVE EV-11 - BACK RIVER NECK ROAD AT FRENCHS AVENUE
- AS SHOWN ON SHEET 5 ON THE BYPASS PLANS IN THE SPECIFICATIONS, CUT AND CAP EXISTING MAIN PER DETAIL W-5A. CONNECT AND ACTIVATE TEMPORARY BYPASS ALONG FRENCHS AVENUE
- CLOSE THE FOLLOWING VALVES TO ISOLATE THE WATER MAIN:
 - VALVES EV-12 AND EV-13 - BACK RIVER NECK ROAD AT WILLIAMS AVENUE
- AS SHOWN ON SHEET 6 ON THE BYPASS PLANS IN THE SPECIFICATIONS, CUT AND CAP EXISTING MAIN PER DETAIL W-5A. CONNECT AND ACTIVATE TEMPORARY BYPASS ALONG WILLIAMS AVENUE, EAST AND WEST OF BACK RIVER NECK ROAD.
- CLOSE THE FOLLOWING VALVES TO ISOLATE THE WATER MAIN:
 - VALVE EV-6 ON EX. 16" W - 125' EAST OF HOMBERG AVENUE
 - VALVE EV-7 ON 24"X12" INTERCONNECT - 140' EAST OF HOMBERG AVENUE
 - VALVE EV-14 - BACK RIVER NECK ROAD AT TRIPGATE ROAD
 - VALVE EV-15 - BACK RIVER NECK ROAD AT POLES ROAD
 - VALVE EV-16 AND EV-17 ON EX. 12" W - BACK RIVER NECK ROAD AT MIDDLEBOROUGH ROAD

- AS SHOWN ON SHEET 6, CUT AND CAP EXISTING 12" WATER MAIN PER DETAIL W-5A.
 - OPEN THE FOLLOWING VALVES CLOSED IN STEP 17:
 - VALVE EV-14 - BACK RIVER NECK ROAD AT TRIPGATE ROAD
 - VALVE EV-15 - BACK RIVER NECK ROAD AT POLES ROAD
 - VALVE EV-16 AND EV-17 ON EX. 12" W - BACK RIVER NECK ROAD AT MIDDLEBOROUGH ROAD
 - INSTALL NEW WATER MAINS ALONG BACK RIVER NECK ROAD STA. 0+14 TO STA. 0+90 AND STA. 1+10 TO STA. 18+50 INCLUDING ALL APPURTENANCES, 24" VALVE AND VAULT, HOPEWELL AVENUE EAST, HOPEWELL AVENUE WEST, HOWARD AVENUE, FRENCHS AVENUE, AND WILLIAMS AVENUE, 6" WHC AT STA. 6+76
 - CONNECT BRANCH CONNECTIONS AT THE FOLLOWING TIE-INS, **KEEP BRANCH VALVES CLOSED:**
 - HOPEWELL AVENUE EAST
 - HOPEWELL AVENUE WEST
 - HOWARD AVENUE
 - FRENCHS AVENUE
 - WILLIAMS AVENUE
 - CLOSE THE FOLLOWING VALVES TO ISOLATE THE MAIN:
 - VALVE EV-2 ON 48"X12" INTERCONNECT - NORTHWEST OF EVERGREEN WAY
 - VALVE EV-3 ON EX. 48" W - SOUTHEAST OF EVERGREEN WAY
 - USING MULTIPLE CREWS, INSTALL NEW WATER MAINS ALONG BACK RIVER NECK ROAD STA. 0+00 TO STA. 0+14 AND STA. 0+90 TO STA. 1+10, 24"X16" INTERCONNECT, AND 6" WHC AT STA. 6+76. CONNECT TO EX. 24" W AT STA. 0+00.
 - OPEN ALL VALVES THAT WERE CLOSED, **EXCEPT NEWLY INSTALLED BRANCH VALVES CLOSED IN STEP 21.**
 - REPLACE WATER HOUSE CONNECTIONS ALONG THE FOLLOWING ROADS:
 - BACK RIVER NECK ROAD HOUSE NOS. 104 - 152, NOT INCLUDING 149 AND 151
 - ALONG HOPEWELL AVENUE EAST, HOPEWELL AVENUE WEST, HOWARD AVENUE, FRENCHS AVENUE AND WILLIAMS AVENUE REPLACE CAP AND JACK WITH NEW SPOOL PIECE OF PIPE AND CONNECT TO EX. WATER ALONG EACH STREET RESPECTIVELY.
 - OPEN ALL BRANCH VALVES.
 - REMOVE ALL TEMPORARY WATER SERVICE AND TEMPORARY FIRE HYDRANTS. REMOVE FIRE HYDRANTS, FIRE HYDRANT LEADS AND VALVES ALONG BACK RIVER NECK ROAD INSTALLED IN STEP 3. CAP 24"X6" TAPPING SLEEVES.
- PHASE 2 INSTALLATION - BACK RIVER NECK ROAD STA. 26+60 ± - STA. 52+10, MIDDLEBOROUGH ROAD STA. 29+36, MIDDLEBOROUGH ROAD STA. 39+33, 8" WHC STA. 36+03, BROWNS ROAD, HUDSON VIEW ROAD STA. 48+12, HUDSON VIEW ROAD STA. 50+64**
- WITHOUT DISTURBING EXISTING WATER MAINS OR REQUIRING SHUTDOWNS, INSTALL NEW 24" AND 16" WATER MAINS FROM STA. 26+60± TO STA. 52+10 ± INCLUDING ALL APPURTENANCES, 24" VALVE AND VAULT, 16" VALVE AND VAULT, WATER MAINS ALONG BACK RIVER NECK ROAD AND BRANCH MAINS. DO NOT CONNECT THE BRANCH MAINS TO THE EXISTING WATER MAINS.
 - CLOSE THE FOLLOWING VALVES TO ISOLATE THE WATER MAIN:
 - VALVE EV-16 AND EV-17 ON EX. 12" W - BACK RIVER NECK ROAD AT MIDDLEBOROUGH ROAD
 - VALVE EV-18 ON EX. 16" W - BACK RIVER NECK ROAD AT MIDDLEBOROUGH ROAD
 - VALVE EV-19 - BACK RIVER NECK ROAD AT HILLTOP AVENUE
 - VALVE EV-20 - BACK RIVER NECK ROAD AT BROWNS ROAD
 - VALVE EV-21 - BACK RIVER NECK ROAD, 35' SOUTHEAST OF BROWNS ROAD
 - AS SHOWN ON SHEET 9, REMOVE 2' - 3' OF EXISTING 16" WATER MAIN PIPE SECTION ALONG BACK RIVER NECK ROAD AND INSTALL NEW DOUBLE CAPS, JACK AND BUTTRESS PER STD DET W-5A
 - OPEN ALL VALVES CLOSED IN STEP 2.
 - CLOSE THE FOLLOWING VALVES TO ISOLATE THE WATER MAIN:
 - VALVE EV-18 ON EX. 16" W - BACK RIVER NECK ROAD AT MIDDLEBOROUGH ROAD
 - VALVE EV-25 - MIDDLEBOROUGH ROAD, SOUTHWEST OF SOUTHEASTERN BOULEVARD
 - VALVE EV-26 - MIDDLEBOROUGH ROAD AT HILLTOP AVENUE
 - VALVE EV-27 AND EV-28 - MIDDLEBOROUGH ROAD AT LOCUST AVENUE
 - VALVE EV-20 - BACK RIVER NECK ROAD AT BROWNS ROAD
 - VALVE EV-21 - BACK RIVER NECK ROAD, 35' SOUTHEAST OF BROWNS ROAD
 - USING MULTIPLE CREWS CONNECT BRANCH CONNECTIONS AT THE FOLLOWING TIE-INS:
 - MIDDLEBOROUGH ROAD 12" W, 16" W STA. 29+36
 - 8" WHC, 16" W STA. 36+03
 - MIDDLEBOROUGH ROAD 12" W, 16" W STA. 39+33
 - CLOSE PROPOSED VALVE PV-3 AT STA. 40+47

- OPEN ALL VALVES CLOSED IN STEP 5.
 - REPLACE WATER HOUSE CONNECTIONS ALONG THE FOLLOWING ROADS:
 - BACK RIVER NECK ROAD HOUSE NOS. 214 - 313
 - CLOSE THE FOLLOWING VALVES TO ISOLATE THE WATER MAIN:
 - VALVE EV-24 - BACK RIVER NECK ROAD, 85' NORTHWEST OF HYDE PARK ROAD
 - VALVE EV-29 - BROWNS ROAD AT ANNETTA ROAD
 - KEEP PROPOSED VALVE PV-3 AT STA. 40+47 CLOSED (SEE STEP 7)
 - USING MULTIPLE CREWS CONNECT BRANCH CONNECTIONS AT THE FOLLOWING TIE-INS:
 - BROWNS ROAD
 - HUDSON VIEW ROAD 16" W STA. 48+12
 - HUDSON VIEW ROAD 16" W STA. 50+64
 - 16" W TIE-IN AT STA. 52+19
 - OPEN ALL VALVES CLOSED IN STEP 7 AND STEP 10.
 - REPLACE WATER HOUSE CONNECTIONS ALONG THE FOLLOWING ROADS:
 - BACK RIVER NECK ROAD HOUSE NOS. 329 - 353
- PHASE 3 INSTALLATION - BACK RIVER NECK ROAD STA. 18+50 - 26+60, TRIPGATE ROAD, AND POLES ROAD**
- INSTALL TEMPORARY WATER SERVICE ALONG THE FOLLOWING STREETS (USE EX. FH-2 ON MIDDLEBOROUGH ROAD, NEWLY INSTALLED FIRE HYDRANT ON BACK RIVER NECK ROAD STA. 20+16, NEW FIRE HYDRANT INSTALLED ON TRIPGATE ROAD, AND EX. FH-7 ON POLES ROAD AS FEED SOURCES) INCLUDING LAYING THE PIPE, DISINFECTION, CHARGING THE TEMPORARY PIPE, CONNECTING THE SERVICES IN THE SEQUENCE, AND TEMPORARY FIRE HYDRANT INSTALLATION:
 - BACK RIVER NECK ROAD HOUSE NOS. 149 - 210, NOT INCLUDING 152
 - CLOSE THE FOLLOWING VALVES TO ISOLATE THE WATER MAIN:
 - VALVE EV-14 - BACK RIVER NECK ROAD AT TRIPGATE ROAD
 - AS SHOWN ON SHEET 7 ON THE BYPASS PLANS IN THE SPECIFICATIONS, CUT AND CAP EXISTING MAIN PER DETAIL W-5A. CONNECT AND ACTIVATE TEMPORARY BYPASS ALONG TRIPGATE ROAD.
 - CLOSE THE FOLLOWING VALVES TO ISOLATE THE WATER MAIN:
 - VALVE EV-15 - BACK RIVER NECK ROAD AT POLES ROAD
 - AS SHOWN ON SHEET 7 ON THE BYPASS PLANS IN THE SPECIFICATIONS, CUT AND CAP EXISTING MAIN PER DETAIL W-5A. CONNECT AND ACTIVATE TEMPORARY BYPASS ALONG POLES ROAD.
 - CLOSE THE FOLLOWING VALVES TO ISOLATE THE WATER MAIN:
 - NEW 12" VALVE, BACK RIVER NECK ROAD 16" W STA. 29+28
 - VALVE EV-27 AND EV-28 - MIDDLEBOROUGH ROAD AT LOCUST AVENUE
 - VALVE EV-18 ON EX. 16" W - BACK RIVER NECK ROAD AT MIDDLEBOROUGH ROAD
 - VALVE EV-16 AND EV-17 ON EX. 12" W - BACK RIVER NECK ROAD AT MIDDLEBOROUGH ROAD
 - AS SHOWN ON SHEET 7, CUT AND CAP EXISTING 12" WATER MAIN PER DETAIL W-5A. CONNECT AND ACTIVATE TEMPORARY BYPASS ALONG MIDDLEBOROUGH ROAD AND BACK RIVER NECK ROAD.
 - OPEN ALL VALVES CLOSED IN STEP 6.
 - INSTALL NEW WATER MAINS ALONG BACK RIVER NECK ROAD FROM STA. 18+50 TO STA. 26+60 INCLUDING ALL APPURTENANCES, TRIPGATE ROAD AND POLES ROAD. REMOVE TEMPORARY CAP AND CONNECT TO NEW 24" WATER MAIN INSTALLED IN PHASE 2.
 - CONNECT BRANCH CONNECTIONS AT THE FOLLOWING TIE-INS, **KEEP BRANCH VALVES CLOSED:**
 - TRIPGATE ROAD
 - POLES ROAD
 - REPLACE WATER HOUSE CONNECTIONS ALONG THE FOLLOWING ROADS:
 - BACK RIVER NECK ROAD HOUSE NOS. 149 - 210, NOT INCLUDING 152
 - ALONG TRIPGATE ROAD AND POLES ROAD REPLACE CAP AND JACK WITH NEW SPOOL PIECE OF PIPE AND CONNECT TO EX. WATER ALONG EACH STREET RESPECTIVELY. ABANDON VALVES EV-14 AND EV-15 IN PLACE.
 - OPEN ALL BRANCH VALVES.
 - REMOVE ALL TEMPORARY WATER SERVICE AND TEMPORARY FIRE HYDRANTS. REMOVE FIRE HYDRANT, FIRE HYDRANT LEADS AND VALVES ALONG TRIPGATE ROAD INSTALLED IN STEP 5 OF PHASE 1. CAP 8"X6" TAPPING SLEEVE.
 - RESTORE THE AREA.

CITY OF BALTIMORE	REVISION - CITY OF BALTIMORE
SEE DRAWING 2023-2704 FOR ORIGINAL SIGNATURES	

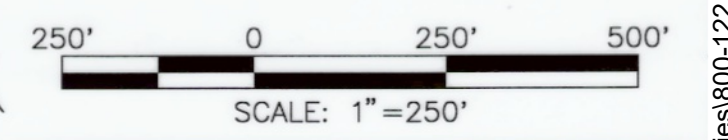
	PROFESSIONAL CERTIFICATION I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 20615, EXPIRATION DATE 10/21/26		REVISION 3 ADDENDUM 3 NEW SHEET ADDED	BY WTB	DATE 2/2/26	P.W.A. NO. R.O.W. NO.	KEY SHEET POSITION SH#	DRAWING SCALE PLAN SCALE: 1"=30' PROFILE SCALE: 1"=10'	DPW & TRANSPORTATION SEE DRAWING 2023-2704 FOR ORIGINAL SIGNATURES
	ENGINEER: SHAWN BURNETT THE WILSON T. BALLARD CO. AS-BUILT PER RECORD PRINT BY: _____ DATE: _____	DESIGN BY: DS DRAWN BY: TL CHKD BY: SB	BUREAU OF ENGINEERING AND CONSTRUCTION BUILDINGS HIGHWAYS STRUCTURES STORM DRAINS SEWER WATER FIELD ENGINEER BUR. OF ENGINEERING & CONSTRUCTION REVIEWED BY: _____ DATE REVIEWED: _____	SEE DRAWING 2023-2704 FOR ORIGINAL SIGNATURES		SEE DRAWING 2023-2704 FOR ORIGINAL SIGNATURES		BALTIMORE COUNTY DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION BUREAU OF ENGINEERING & CONSTRUCTION 24-INCH AND 16-INCH WATER MAIN REPLACEMENT - PHASE 3 BACK RIVER NECK ROAD FROM HOMBERG AVENUE TO NORTH OF HYDE PARK ROAD SUGGESTED SEQUENCE OF CONSTRUCTION	

SHEET DESIGNATION WATER SH 17A OF 18		CONTRACT NUMBER 23186-WXO	
JOB ORDER NUMBER 231-203-0067-0783		SHEET 17A OF 44 DRAWING NUMBER 2023-2720	
SUBDIVISION: BACK RIVER NECK		ELECTION DIST. NO.: 15C7	

CONTRACT COMPLETION BOX	
CONTRACTOR:	_____
DATE COMPLETED:	_____
INSPECTOR:	_____
PIPE MATERIAL:	_____
CATHODIC PROTECTION SYSTEM METHOD (POTABLE WATER ONLY):	
<input type="checkbox"/> BONDED COATED PIPE	PIPE DIAMETER(S): _____
<input type="checkbox"/> N/A - ZINC COATED PIPE	PIPE DIAMETER(S): _____
<input type="checkbox"/> WITH POLYETHYLENE ENCASEMENT	PIPE DIAMETER(S): _____
<input type="checkbox"/> OTHER (SPECIFY): _____	PIPE DIAMETER(S): _____

DWG. FILENAME: T:\Baltimore County Utilities\600-122-03 Back River Neck Road Phase 3 DWG\sta\p03-N001-BRNE-ADDENDUM 3.dwg

WATERMAIN SHUTDOWN AND TEMPORARY BY-PASS MAP



- LEGEND**
- EV-X EXISTING VALVE
 - PV-X PROPOSED VALVE
 - ▲ FH-X EXISTING FH
 - ▲ TEMPORARY FH
 - TEMPORARY WATER BY-PASS
 - EXISTING WATER
 - PROPOSED WATER
 - REMOVED BY-PASS

SEE APPENDIX F FOR BYPASS PHASING AND INSTALLATION INFORMATION

CITY OF BALTIMORE REVISION - CITY OF BALTIMORE

SEE DRAWING 2023-2704 FOR ORIGINAL SIGNATURES

CONTRACT COMPLETION BOX	
CONTRACTOR: _____	
DATE COMPLETED: _____	
INSPECTOR: _____	
PIPE MATERIAL: _____	
CATHODIC PROTECTION SYSTEM METHOD (POTABLE WATER ONLY):	
<input type="checkbox"/> BONDED COATED PIPE	PIPE DIAMETER(S): _____
<input type="checkbox"/> N/A - ZINC COATED PIPE	PIPE DIAMETER(S): _____
<input type="checkbox"/> W/EP POLYETHYLENE ENCASMENT	PIPE DIAMETER(S): _____
<input type="checkbox"/> OTHER (SPECIFY): _____	PIPE DIAMETER(S): _____

SEAL	PROFESSIONAL CERTIFICATION	REVISION	BY	DATE	P.W.A. NO.	KEY SHEET POSITION	SHT	DRAWING SCALE	DPW & TRANSPORTATION	
										DATE REVIEWED
	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. 20615, EXPIRATION DATE 10/21/26	ADDENDUM 3	WTB	2/2/26				1"=80'	SEE DRAWING 2023-2704 FOR ORIGINAL SIGNATURES	
		BUREAU OF ENGINEERING AND CONSTRUCTION	BUILDINGS	HIGHWAYS	STRUCTURES	STORM DRAINS	SEWER	WATER	FIELD ENGINEER	BUR. OF ENGINEERING & CONSTRUCTION
AS-BUILT PER RECORD PRINT	DESIGN BY: DS	REVIEWED BY:	SEE DRAWING 2023-2704 FOR ORIGINAL SIGNATURES				SEE DRAWING 2023-2704 FOR ORIGINAL SIGNATURES			
BY: _____	DRAWN BY: TL	DATE REVIEWED:								
DATE: 7-9-2025	CHKD BY: SB									

BALTIMORE COUNTY DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION BUREAU OF ENGINEERING & CONSTRUCTION

24-INCH AND 16-INCH WATER MAIN REPLACEMENT - PHASE 3

BACK RIVER NECK ROAD

FROM HOMBERG AVENUE TO NORTH OF HYDE PARK ROAD

SUBDIVISION: BACK RIVER NECK VALVE SHUTDOWN MAP ELECTION DIST. NO.: 15C7

SHEET DESIGNATION	CONTRACT NUMBER
WATER SH 18 OF 18	23186-WXO
JOB ORDER NUMBER	
231-203-0067-0783	
SHEET 18 OF 44	
DRAWING NUMBER	
2023-2721	
FILE NO. _____	

DWG: FILENAME: T:\Baltimore County Utilities\800-122-03 Back River Neck Road Phase 3\DWG\GN-A002-BRNR-ADDENDUM 3.dwg