# BALTIMORE COUNTY, MARYLAND DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION DIVISION OF CONSTRUCTION CONTRACTS ADMINISTRATION 111 WEST CHESAPEAKE AVENUE TOWSON, MARYLAND 21204



Contract No. 23186 WX0
Workday No. PROJ-10000520
Back River Neck Road 16" and 24" Water Main Replacement Phase 3
(Back River Neck Road from Homberg Avenue to North Hyde Park Road)
Essex – District 15c7
Job Order No's. 231-203-0067-0783

#### **ADDENDUM NO. 1**

**DATE:** 10/21/2025

Contact: Barb Wentworth, 410-887-3531, bwentworth@baltimorecountymd.gov

#### To All Bidders

This addendum is hereby made a part of the Proposal and the Special Provisions, and is hereby incorporated into the Contract. Should this addendum conflict with any portion of the Special Provisions, the Proposal, or any prior addenda, this addendum shall supersede and control.

Please note the attached changes, corrections, and/or information in connection with the contract and submit bids and be otherwise governed accordingly.

#### In the Specifications

#### Revised and attached to be inserted:

- Page 12, Special Provisions, General Special Provisions, Page 1 of 15.
- > Page 26, Special Provisions, General Special Provisions, Page 15 of 15.
- Page 29, Special Provisions, 351 Water Main Construction, Page 1 of 1.

Page Two Contract No. 23186 WX0 Addendum No. 1 October 21, 2025

#### In the Proposal

**Revised and attached to be inserted:** Section V–Proposal, Description of Items & Schedules of Prices:

- Page 251:
  - Item 8 F, change the description to TEST PIT EXECAVATION/CONVENTIONAL EXCAVATION METHODS from TEST PIT EXCAVATION I COUNTY ROADS VIA TRADITIONAL METHOD.
  - Note Item Numbers 12-30 moved down to Page 252.
- > Page 252:
  - Item 12, 6 INCH DUCTILE IRON PIPE AND FITTINGS-CLASS 54 change Estimate Quantity to 352 from 321.
  - Item 13, 8 INCH DUCTILE IRON PIPE AND FITTINGS-CLASS 54 change Estimate Quantity to 480 from 533.
  - Item 17, 6" FIRE HYDRANT/FURNISH AND INSTALL change Estimate Quantity to 8 from 9.
  - Item 20, 8 INCH VALVE AND VAULT-VERTICAL change Estimate Quantity to 10 from 11.
  - Item 24, 3/4 IN. WATER SERVICE TAP AND CORPORATION change Estimate Quantity to 37 from 38.
  - Item 25, 3/4 IN. COPPER WATER SERVICE AND FITTINGS change Estimate Quantity to 1020 from 1036.
  - Note Item Numbers 31-49 moved down to Page 253.
- > Page 253
  - Item 32, TEMPORARY BY-PASS LINES change Estimate Quantity to 14950 from 15520.
  - Item 35, Delete Item entirely.
  - Note Item Numbers 50-54 moved down to Page 524.
- Page 524:
  - Add New Item 53 C, FURNISH AND INSTALL ADDITIONAL 16" MJ RESTRAINED DUCTILE IRON 1/8 BENDS, Unit of Measure is Each (EA) and Estimate Quantity is 8.
  - Add New Item 54 C, FURNISH AND INSTALL ADDITIONAL 24" MJ RESTRAINED DUCTILE IRON 1/8 BENDS, Unit of Measure is Each (EA) and Estimate Quantity is 8.

#### In the Drawings

#### Revised and attached to be inserted:

- Sheet 1-Drawing Number 2023-2704
- Sheet 2-Drawing Number 2023-2705,
- Sheet 4-Drawing Number 2023-2707,
- Sheet 11-Drawing Number 2023-2714
- Sheet 15-Drawing Number 2023-2718.

Attachments – 12

Please sign below acknowled	ging receipt	of this adden	dum and r	eturn with	your	bid.
Company Name		Signature				

#### **GENERAL SPECIAL CONDITIONS**

#### 1. <u>Location and Description of the Water Main Work</u>

The work to be completed under this Contract includes all labor, materials, and equipment necessary to furnish and install various diameter ductile iron water mains along Back River Neck Road from Homberg Avenue to Hyde Park Road, including valves, valve vaults, fire hydrants, fittings, service connection renewals, pressure testing, disinfection, connection to existing water mains, and appurtenances at the locations shown on the Contract Drawings. As part of the work, all existing service connections that are currently served from the existing water main in Back River Neck Road (and side streets) shall be replaced from the new replacement water main to the existing meter boxes. The Engineer on the job site will determine whether to use the existing meter vault or replace it, depending on its condition. After the installation of the water main connections and services, the existing water mains in Back River Neck Road will be abandoned in place.

The site is located in the eastern part of Baltimore County along Back River Neck Road in the Essex area. The project includes, but is not limited to, the construction of the following water mains and appurtenances:

- 2,913 linear feet of 24-inch water main
- 2.325 linear feet of 16-inch water main
- 169 linear feet of 12-inch water main
- 480 linear feet of 8-inch water main
- 352 linear feet of 6-inch water main
- 22 linear feet of 4-inch water main
- Eight (8) 6-inch fire hydrants
- 4-inch through 24-inch gate valves and vaults
- Forty-nine (49) 3/4-inch through 2-inch water service re-connections
- 1,020 linear feet of 3/4-inch copper water service pipe
- 125 linear feet of 1-inch copper water service pipe
- 81 linear feet of 1-1/2 inch copper water service pipe
- 149 linear feet of 2-inch copper water service pipe

All ductile iron water main pipe on this project will have bonded coatings and full cathodic protection. Cathodic protection shall be installed as shown on the plans. The cost for all coatings and cathodic protection shall be included in the prices bid for the proposed ductile iron water main pipe items.

All ductile iron water main pipe shall be special thickness class 54 in accordance with the latest ANSI/AWWA C151/A21.51. Ductile iron fittings shall meet the latest ANSI/AWWA C110/A21.10 and ANSI/AWWA C153/A21.53. Interior surfaces of all ductile iron pipe and fittings shall be cleaned and cement-mortar-lined at the pipe casting

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Printed: July 15, 2025

opening the trench. Compensation for this work will be paid under the appropriate contingent bid item listed. Restrained joints shall be included in these items. These items are for 16" and 24" diameter mechanical joint 45-degree bends which may become necessary to complete the installation.

#### 25. Certification of Materials and Installations

The Contractor shall furnish certification for the following items:

- a) Gate valves
- b) Fire hydrants
- c) Pipeline Coating and/or wrapping

Certification shall be provided from each manufacturer, or from an approved testing laboratory, that all material used in the work is in accordance with these and all referenced specifications.

#### 26. Existing Water Service Connection Pipe Materials

The Contractor shall document the existing pipe material (i.e. lead, galvanized steel, pvc, etc.) for all water service connections on the final as-built drawings. This work will be considered incidental to the preparation of the as-built documents.

#### CATEGORY 300 DRAINAGE & UTILITY CONSTRUCTION

#### **SECTION 351 – WATER MAIN CONSTRUCTION**

#### **ADD** the following to section **351.04 MEASUREMENT AND PAYMENT**:

Concrete encasement of existing sanitary sewers (as shown on the Drawings) shall be paid for under the Item listed for contingent **Mix No. 1 Concrete for Miscellaneous Structures**. Price shall include excavation, backfill and compaction, dewatering, shoring/support of the existing sanitary sewer, formwork, concrete, finishing, restoration and all work necessary for the encasement of the existing sanitary sewer/s.

Furnishing and installation of Graded Aggregate Base (GAB) shall not be measured separately but will be considered incidental to the appropriate utility bid items in this Contract.

Restoration of the surface shall be paid under the items bid for seed and mulch, bituminous concrete for temporary trench repair, hot mix asphalt surface SF, concrete sidewalk, etc. as applicable.

Furnishing and installation of all corrosion components and full cathodic protection (as specified in Section 372) for new ductile iron pipe and fittings shall not be measured separately but will be considered incidental to the appropriate ductile iron pipe bid items in this Contract.

Contingent items have been set for additional 16" and 24" diameter restrained ductile iron mechanical joint 45 degree pipe fittings for cases where the Engineer directs the Contractor to install additional pipe fittings as required to avoid existing utilities or other conflicts. These items shall be measured and paid for on a case-by-case basis as approved by the Engineer.

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#### **CONTRACT PROPOSAL**

BACK RIVER NECK ROAD 16" AND 24" WATER MAIN REPLACEMENT - PHASE 3
CONTRACT NUMBER: 23186-WXO
WORKDAY NUMBER: 10000520
JOB ORDER NUMBER: 231-203-0067-0783
WORKING DAYS: 400

CONTRACTOR:	
ADDRESS:	
PHONE:	

BID ITEM	COMM.		DESCRIPTION	UNIT	ESTIMATED QUANTITY	UNIT PRICE	TOTAL AMOUNT
1	130850		MOBILIZATION	LS	1		\$
2	120500		MAINTENANCE OF TRAFFIC	LS	1		\$
3	WRITE-IN		INLET PROTECTION - CURB	EA	35		\$
4	704345		PLACING FURNISHED TOPSOIL 4 INCH DEPTH	SY	48		\$
5	707301		SEEDING	SY	48		\$
6	WRITE-IN		TEMPORARY MULCHING	SY	48		\$
7	130840		CONSTRUCTION STAKEOUT	LS	1		\$
8	800010	F	TEST PIT EXCAVATION / CONVENTIONAL EXCAVATION METHODS	CY	300		\$108,000.00
9	110330		ENGINEER'S OFFICE NO.3	LS	1		\$
10	800050		MIX NO. 1 CONCRETE FOR MISCELLANEOUS STRUCTURES	CY	8		\$
11	833040		4 INCH DUCTILE IRON PIPE AND FITTINGS	LF	22		\$

12	863060	6 INCH DUCTILE IRON PIPE AND FITTINGS - CLASS 54	LF	352	\$
13	863080	8 INCH DUCTILE IRON PIPE AND FITTINGS - CLASS 54	LF	480	\$
14	863120	12 INCH DUCTILE IRON PIPE AND FITTINGS - CLASS 54	LF	169	\$
15	863160	16 INCH DUCTILE IRON PIPE AND FITTINGS - CLASS 54	LF	2,325	\$
16	863240	24 INCH DUCTILE IRON PIPE AND FITTINGS - CLASS 54	LF	2,913	\$
17	847060	6" FIRE HYDRANT / FURNISH AND INSTALL	EA	8	\$
18	836040	4 INCH VALVE AND VAULT - VERTICAL	EA	1	\$
19	836060	6 INCH VALVE AND VAULT - VERTICAL	EA	11	\$
20	836080	8 INCH VALVE AND VAULT - VERTICAL	EA	10	\$
21	836120	12 INCH VALVE AND VAULT - VERTICAL	EA	3	\$
22	836160	16 INCH VALVE AND VAULT - VERTICAL	EA	1	\$
23	836230	24 INCH VALVE AND VAULT - VERTICAL	EA	2	\$
24	842010	3/4 IN. WATER SERVICE TAP AND CORPORATION	EA	37	\$
25	843010	3/4 IN. COPPER WATER SERVICE AND FITTINGS	LF	1,020	\$
26	842020	1 IN. WATER SERVICE TAP AND CORPORATION	EA	5	\$
27	843020	1 IN. COPPER WATER SERVICE AND FITTINGS	LF	125	\$
28	842030	1-1/2 IN. WATER SERVICE TAP AND CORPORATION	EA	3	\$
29	843030	1-1/2 IN. COPPER WATER SERVICE AND FTTTINGS	LF	81	\$
30	842040	2 IN. WATER SERVICE TAP AND CORPORATION	EA	4	\$

			T				
31	843040		2 IN. COPPER WATER SERVICE AND FITTINGS	LF	149		\$
32	849420		TEMPORARY BY-PASS LINES	LF	14,950		\$
33	WRITE-IN	С	REPLACEMENT OF WATER METER SETTING (ALL SIZES) (CONTINGENT ITEM)	EA	8		\$
34			REPLACEMENT OF WATER METER FRAME, COVER, AND VAULT (ALL SIZES) (CONTINGENT ITEM)	EA	8		\$
35			DELETED			\$0.00	\$0.00
36	120561		HOT MIX ASPHALT STAGE 1 FOR TEMPORARY TRENCH REPAIR @ 3" DEPTH	TON	850		\$
37	120562		HOT MIX ASPHALT STAGE 2 FOR PERMANENT TRENCH REPAIR	TON	2,500		\$
38	210011		REMOVE AND REPLACE EXISTING CURB AND GUTTER	LF	305		\$
39	210021		REMOVE AND REPLACE EXISTING CONCRETE SIDEWALK	SF	720		\$
40	WRITE-IN	С	GEOTEXTILE CLASS SE (CONTINGENT ITEM)	SY	8,000		\$
41	WRITE-IN	С	GEOTEXTILE CLASS ST (CONTINGENT ITEM)	SY	8,000		\$
42	800060	F	BORROW FOR BACKFILLING TRENCHES W/PROPER OFFSITE DISPOSAL OF UNSUITABLE MATERIAL (FIXED PRICE CONTINGENT ITEM)	CY	9,000	\$80.00	\$720,000.00
43	800020	F	CLASS 3 EXCAVATION W/SELECT BACKFILL & PROPER OFFSITE DISPOSAL OF UNSUITABLE MATERIAL (FIXED PRICE CONTINGENT ITEM)	CY	300	\$130.00	\$39,000.00
44	Write In	С	TRENCH ROCK EXCAVATION WITH PROPER DISPOSAL (CONTINGENT ITEM)	CY	250		\$
45	WRITE-IN		GAB FOR TRENCH REPAIR	TON	4,000		\$
46	530164		MILLING ASPHALT PAVING MINIMUM 2"	SY	27,319		\$
47	585240		5 INCH SOLID WHITE THERMOPLASTIC PAVEMENT MARKINGS	LF	3,290		\$
48	585210		5 INCH SOLID YELLOW THERMOPLASTIC PAVEMENT MARKINGS	LF	11,565		\$
49	585286		16 INCH SOLID WHITE THERMOPLASTIC PAVEMENT MARKINGS FOR CROSS HATCH	LF	775		\$

			TOTAL COST FOR CONTRACT			\$
54	WRITE-IN		FURNISH AND INSTALL ADDITIONAL 24" MJ RESTRAINED DUCTILE IRON 1/8 BENDS	EA	8	\$
53	WRITE-IN		FURNISH AND INSTALL ADDITIONAL 16" MJ RESTRAINED DUCTILE IRON 1/8 BENDS	EA	8	\$
52	WRITE-IN	С	PITCHER FILTER WITH SIX MONTHS OF REPLACEMENT CARTRIDGES	EA	5	\$
51	WRITE-IN		THERMOPLASTIC PAVEMENT MARKINGS AND LEGENDS AND SYMBOLS	SF	140	\$
50	585292		24 INCH SOLID WHITE THERMOPLASTIC PAVEMENT MARKINGS FOR STOP BARS	LF	235	\$

TOTAL COST FOR CONTR	RACT IN WORDS	
OFFICER SIGNATURE	TITLE	

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### GENERAL NOTES

- ALL WATER MAINS SHALL BE DUCTILE IRON PIPE CLASS 54 WITH BONDED COATING, UNLESS OTHERWISE NOTED ON THE PLANS, IN ACCORDANCE WITH ANSI/AWWA C150/A21.51-09 WITH CATHODIC PROTECTION. (SEE CORROSION CONTROL SHEETS 1-9 FOR PLANS AND DETAILS FOR DETAILS.) REFER TO SPECIAL PROVISIONS. SEE CORROSION
- DUCTILE IRON FITTINGS SHALL MEET THE LATEST AWWA C110/A21-10-12 AND AWWA C153/A21.53-11 (PRESSURE RATING SHALL BE AS SPECIFIED). FITTINGS SHALL BE PROVIDED WITH A ZINC COAT AND A BITUMINOUS TOPCOAT
- FOR NEW OR RELOCATED FIRE HYDRANT INSTALLATIONS, A NEW LOCK-ON TEE WILL BE INSTALLED AND THE 6-INCH VALVE WILL BE BOLTED TO THE LOCK-ON TEE UNLESS OTHERWISE INDICATED. THE 6-INCH HYDRANT LEAD, VALVE, AND HYDRANT LEAD WILL BE RESTRAINED TO EACH OTHER BY RESTRAINING GLANDS.
- UNLESS OTHERWISE NOTED ON THE PLANS OR IN THE SPECIAL PROVISIONS, ALL WORK PERFORMED UNDER THIS WORKS STANDARD SPECIFICATIONS", AND THE 2007 EDITION OF THE "BALTIMORE COUNTY DEPARTMENT OF PUBLIC WORKS STANDARD DETAILS FOR CONSTRUCTION" INCLUDING ALL ADDENDA.
- WATER MAINS. THE CONTRACTOR SHALL CONTACT MISS UTILITY AT LEAST FOUR (4) DAYS IN ADVANCE OF ANY CONSTRUCTION (PHONE: 1-800-257-7777), ANY DAMAGE INCURRED SHALL BE REPAIRED AT THE CONTRACTOR'S
- CONTRACTOR SHALL TEST PIT TO DETERMINE THE EXACT LOCATION AND DEPTH OF EXISTING UTILITIES TO BE TEST PITS WILL BE PAID AT TIE-IN POINTS AND AT UTILITIES NOT SHOWN ON PLANS. THIS IS TO BE APPROVED BY
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, WITH THE APPROVAL OF THE ENGINEER, TO ADJUST TH ALL DEFLECTED PIPES SHALL COMPLY WITH THE MANUFACTURER'S SPECIFICATION AND BALTIMORE COUNTY STANDARDS, WHICHEVER IS MORE CONSERVATIVE. UNLESS OTHERWISE INDICATED. ALL ELEVATIONS OF PROPOSEI
- THE CONTRACTOR SHALL MAINTAIN TRAFFIC MOVEMENT, TRAFFIC CONTROL, AND EMERGENCY VEHICLE ACCESS ALONG ALL ROADS DURING ALL PHASES OF CONSTRUCTION IN CONFORMANCE WITH THE REQUIREMENTS OF MARYLAND STATE HIGHWAY ADMINISTRATION AND BALTIMORE COUNTY.
- 10. THE CONTRACTOR SHALL OPEN ONLY THE SECTION OF TRENCH THAT CAN BE BACKFILLED AND STABILIZED IN ONE
- AND THE VAULT SHALL BE BACKFILLED WITH SAND OR APPROVED EQUAL, ALL COSTS ASSOCIATED WITH THE ABANDONMENT OF APPURTENANCES, VALVES, FIRE HYDRANTS, WATER MAINS AND ASSOCIATED SERVICES IF ANY, IN THE PRICE BID FOR THE APPLICABLE INCH WATER MAIN.
- 13. IT SHALL BE DISTINCTLY UNDERSTOOD THAT FAILURE TO MENTION ANY WORK WHICH WOULD NORMALLY BE REQUIRED TO COMPLETE THE PROJECT SHALL NOT RELIEVE THE CONTRACTOR OF HIS/HER RESPONSIBILITY TO COMPLETE SUCH WORK.
- 14. ALL STORM DRAIN APPURTENANCES, DITCHES, ETC., SHALL REMAIN FUNCTIONAL DURING CONSTRUCTION AND SHALL BE PROTECTED BY THE CONTRACTOR FROM SEDIMENT RUNOFF. EXCAVATED MATERIAL SHALL NOT BE PLACED IN OR OBSTRUCT DRAINAGE DITCHES. DITCHES AND OTHER STORM DRAIN FACILITIES SHALL BE RETURNED TO ORIGINAL CONDITION FOLLOWING CONSTRUCTION. DURING TRENCH DEWATERING OPERATIONS NO WATER SHALL BE DISCHARGED DIRECTLY ACROSS THE GROUND OR INTO AN EXISTING BODY OF WATER OR STREAM WITHOUT FLOWING THROUGH AN APPROVED PORTABLE SEDIMENT TANK.
- 15. ONLY BALTIMORE CITY PERSONNEL OR THEIR DESIGNEE, SHALL OPERATE EXISTING VALVES. CONTRACTOR SHALL NOTIFY THE BALTIMORE COUNTY INSPECTOR TO ARRANGE A SHUTDOWN WITH THE CITY AT LEAST 10 WORKING DAYS PRIOR TO PROPOSED SHUTDOWN. IF THE INSPECTOR IN THE FIELD IS UNAVAILABLE, CALL THE BALTIMORE COUNTY AREA ENGINEER AT 410-887-3531.
- ALL CONNECTIONS AND SHUTDOWNS SHALL BE COORDINATED WITH BALTIMORE COUNTY. NO WORK SHALL BEGIN UNLESS ALL TOOLS, EQUIPMENT, AND MATERIALS NECESSARY FOR THE TIE-IN CONNECTION WORK ARE ON-SITE AND APPROVED BY THE ENGINEER. NO ADDITIONAL COMPENSATION FOR NIGHT OR WEEKEND SHUTDOWNS WILL BE
- THE COST FOR CONSTRUCTING UNDER AND/OR OVER ANY EXISTING UTILITIES AND UTILITY HOUSE SERVICE CONNECTIONS INCLUDING GAS, ELECTRIC, CABLE, STORM DRAINS, WATER, AND SEWER SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE APPLICABLE SIZED WATER MAIN. THE CONTRACTOR IS TO SUPPORT BRACE AND PROTECT SUCH UTILITIES. THE CONTRACTOR SHALL TAKE THE NECESSARY PRECAUTIONS WHILE EXCAVATING NEAR POWER, TELEPHONE POLES AND UTILITY FACILITIES.
- "FULL TRENCH COMPACTION" IS REQUIRED FOR ALL TRENCHES. MAINS SHALL HAVE A MINIMUM OF FOUR (4) FEET OF COVER EXCEPT WHERE SPECIFIED.
- CONTRACTOR TO REPLACE ALL GALVANIZED STEEL SERVICE LINES FROM THE NEW MAIN CORPORATION TO THE EXISTING OR NEW METER VAULT WITH COPPER PIPE OF LIKE SIZE (MINIMUM 3/4 INCH) AS DIRECTED BY THE ENGINEER. THE ENGINEER OF RECORD SHALL DETERMINE THE USE OF EXISTING METER VAULT OR REPLACEMENTS DEPENDING ON CONDITION OF THE EXISTING VAULTS. LOCATION OF SERVICE CONNECTIONS ARE SHOWN FOR INFORMATION ONLY. LOCATIONS FOR NEW AND/OR REPLACEMENT SERVICES WILL BE DETERMINED IN THE FIELD.
- 20. A CONSTRUCTION SCHEDULE SHALL BE SUBMITTED TO THE BUREAU OF ENGINEERING AND CONSTRUCTION. CONSTRUCTION CONTRACTS ADMINISTRATION DIVISION AT THE TIME OF THE PRE-CONSTRUCTION CONFERENCE SCHEDULE SHALL BE UPDATED AND SUBMITTED MONTHLY AND UPON REQUEST.
- THE CONTRACTOR SHALL INSTALL NON-DETECTABLE WARNING TAPE ON TOP OF ALL RESTRAINED PIPE. TAPE SHALL BE AMERICAN PUBLIC WORKS ASSOCIATION (APWA) RED AND SHALL BE PROVIDED WITH TWO LINES OF 1-INCH MINIMUM HEIGHT BLACK COLORED LETTERS WITH "NO-DIG" SYMBOL FOLLOWING EACH CYCLE OF TEXT. FIRST LINE TO READ "CAUTION RESTRAINED JOINT PIPE" AND SECOND LINE TO READ "CALL DPW @ 410-396-7870". CYCLE OF TEXT TO BE REPEATED EVERY 20 TO 24 INCHES.
- THE CONTRACTOR SHALL DOCUMENT PRE-CONSTRUCTION CONDITIONS OF THE ENTIRE PROJECT THROUGH PHOTOGRAPHICAL/VIDEO MEANS. THE LEVEL OF DOCUMENTATION IS TO SATISFY CLAIMS AGAINST THE CONTRACTOR THAT THE HOMEOWNER MAY CLAIM. AS THIS WORK IS ONLY TO PROTECT THE CONTRACTOR, THERE SHALL BE NO PAYMENT FOR THIS WORK.

PROFESSIONAL CERTIFICATION

LICENSE NO. \_\_\_\_\_ 20615

ENGINEER: SHAWN BURNETT

THE WILSON T. BALLARD CO

AS-BUILT PER RECORD PRINT

BY ME, AND THAT I AM A DULY LICENSE NAL ENGINEER UNDER THE LAWS OF THE STATE O

Blake Succa

HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR ADDENDUM 1

\_, EXPIRATION DATE \_\_\_10/21/26

DRAWN BY: TL

CHKD BY: SB

CHIEF, OFFICE OF ENGINEERING AND CONSTRUCTION

CITY OF BALTIMORE

9/11/25

DATE

REVISION

Contract Completion Box

DATE REVIEWED: 8/14/25

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

BM 'M' BOX CUT TC IN FRONT OF F.H.

BM 'N'
BOX CUT TC @ CORNER OF TRANSFORMER PAD ELEV. = 24.39

ROYAL FARMS DUMPSTER ELEV. = 31.22

BM 'P'
BOX CUT TC @ END OF SIDEWALK ELEV. = 36.24

SHEET 3

# 24-INCH AND 16-INCH WATER MAIN REPLACEMENT - PHASE 3 BACK RIVER NECK ROAD FROM HOMBERG AVENUE TO NORTH OF HYDE PARK ROAD

BALTIMORE COUNTY CONTRACT NO. 23186-WXO BALTIMORE COUNTY J.O. NO. 231-203-0067-0783

WORKDAY PROJ-10000520

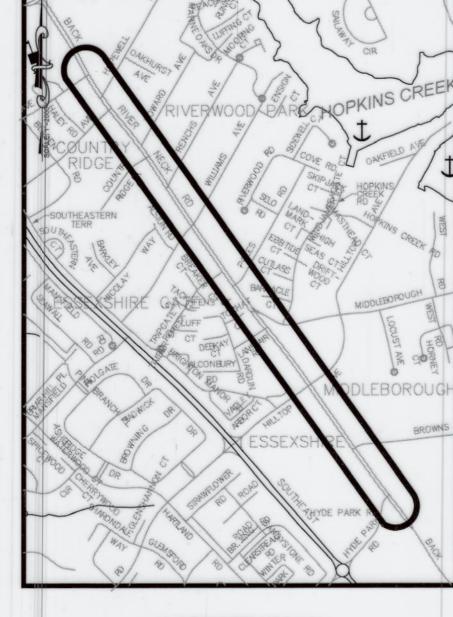
# BENCHMARKS

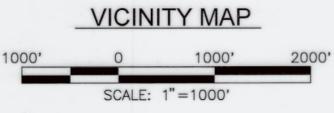
ELEV. = 38.78

BM 'R' BOX CUT TC ELEV. = 30.69

BACK RIVER NECK ROAD

BM 'S' BOX CUT TC ELEV. = 31.32





Scale: 1" = 300'

- THE CONTRACTOR SHALL CONTACT BALTIMORE CITY BUREAU OF WATER & WASTEWATER AT 410-396-3671 (72) HOURS PRIOR TO STARTING THE PROJECT. NOTIFY BALTIMORE COUNTY FIRE MARSHALL AT (410) 887-4880 (72) BEFORE TAKING FIRE HYDRANT OUT OF SERVICE.
- PUBLIC RIGHT—OF—WAY. CONSTRUCTION ACCESS TO EASEMENTS MAY BE INSTALLED IF APPROVED BY THE ENGINEER, AND SHALL BE PROVIDED AT NO ADDITIONAL COST. THE CONTRACTOR SHALL CLEAN UP DIRT AND/OR MUD TRACKED ONTO ROADS IMMEDIATELY, BY VACUUMING, SCRAPING, AND/OR SWEEPING.
- 25. LOCATION OF SERVICE CONNECTIONS IS SHOWN FOR INFORMATION ONLY, FINAL LOCATIONS FOR NEW AND/OR REPLACEMENT SERVICES WILL BE DETERMINED IN THE FIELD. ALL SERVICE CONNECTIONS SHALL BE INSTALLED IN ACCORDANCE WITH BALTIMORE COUNTY'S STANDARD SPECIFICATION AND DETAILS. CONTRACTOR SHALL VERIFY THE SIZE OF ALL SERVICE CONNECTIONS PRIOR TO ORDERING AND INSTALLING COPPER PIPE.
- 26. ALL WORK SHALL COMPLY WITH THE APPROVED SEDIMENT AND EROSION CONTROL PLANS INCLUDED HEREIN AND ALL APPLICABLE PROVISIONS OF THE "2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL" ISSUED JOINTLY BY THE MARYLAND DEPARTMENT OF ENVIRONMENT AND THE NATURAL RESOURCES CONSERVATION SERVICE AS WELL AS BALTIMORE COUNTY SOIL CONSERVATION DISTRICT REQUIREMENTS.
- 27. ALL BUSINESSES AND RESIDENTS SHALL BE INFORMED AT LEAST SEVEN (7) DAYS PRIOR TO SHUTDOWN OF THEIR
- 28. ALL SHUTDOWNS FOR THE TIE-INS OF THE WATER MAIN SHALL BE BRIEF, AFFECTING THE LEAST POSSIBLE SERVICES AND OCCUR BETWEEN 9:00 PM AND 6:00 AM ON WEEKENDS OR AS DIRECTED BY THE ENGINEER. CONTRACTOR TO PROVIDE SCHEDULE AND COORDINATE WITH INSPECTOR FOR EACH TIE-IN. TIME LIMITS FOR WORKING TO START AND STOP ON BACK RIVER NECK ROAD.
- IN COMPLIANCE WITH COMAR 09.20.01.03 AND THE SAFE DRINKING WATER ACT (SECTION 1417(a)(4)(8)) 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
- WATER MAINS SHALL BE LAID AT LEAST 10 FEET HORIZONTALLY FROM AN EXISTING OR PROPOSED GRAVITY SANITARY OR STORM SEWER, SEPTIC TANK, OR SUBSOIL TREATMENT SYSTEM. THE DISTANCE SHALL BE MEASURED EDGE TO EDGE. WATER MAINS CROSSING SEWERS SHALL BE LAID TO PROVIDE MINIMUM VERTICAL DISTANCE OF 18" BETWEEN OUTSIDE OF WATER MAIN AND OUTSIDE OF SEWER. AT CROSSINGS, ONE FULL LENGTH OF WATER PIPE SHALL BE LOCATED, SO BOTH JOINTS ARE AS FAR FROM SEWER CROSSING AS POSSIBLE.
- 31. THE PROPOSED GRADING SHOWN ON THIS PLAN MEETS THE REQUIREMENTS SET FORTH BY BALTIMORE COUNTY DEPARTMENT OF ENVIRONMENT PROTECTION AND SUSTAINABILITY AND COMPLIES WITH ARTICLE 33, TITLE 5 OF BALTIMORE COUNTY CODE. HOWEVER, DUE TO BUILDING TYPES AND LAYOUT, SOME FIELD ADJUSTMENTS MAY BE REQUIRED. ALL CHANGES MUST COMPLY WITH THE ABOVE MENTIONED REQUIREMENTS.
- 32. ALL SWALES HAVE BEEN DESIGNED BY THE ENGINEER TO CONVEY RUNOFF ACCORDING TO BALTIMORE COUNTY DEPARTMENT OF PUBLIC WORKS DESIGN STANDARDS.
- THERE SHALL BE NO CLEARING, GRADING, CONSTRUCTION OR DISCHARGE OF VEGETATION IN THE FOREST BUFFER EASEMENT OR OTHER FOREST RETENTION AREAS, EXCEPT AS PERMITTED BY THE BALTIMORE COUNTY DEPARTMENT OF ENVIRONMENTAL PROTECTION AND SUSTAINABILITY.
- 34. STORMWATER MANAGEMENT HAS BEEN ADDRESSED/APPROVED BY/THROUGH (PAYMENT OF A FEE IN LIEU TO THE BALTIMORE COUNTY STORMWATER MANAGEMENT FUND/STORMWATER MANAGEMENT VARIANCE/STORMWATER MANAGEMENT EXEMPTION/ENVIRONMENTAL SITE DESIGN).

DRAWING SCALE

PLAN SCALE:

PROFILE SCALE

8/13/25 8/19/25

9/12/2025

3NE34, 5NE32,

5NE33, 6NE32

SEWER

who All

WTB 9/24/25

BUREAU OF ENGINEERING HIGHWAYS STRUCTURES STORM DRAINS

OrDIRECTOR, DEPT. OF PUBLIC WORKS

R.O.W NO.

8/14/25

BY DATE P.W.A. NO. KEY SHEET POSITION SHT

REVISION - CITY OF BALTIMORE

	LIST OF DRAWINGS										
SHEET NO.	SHEET DESIGNATION	DRAWING NO.	DESCRIPTION	SH							
. 1	WATER - 1	2023-2704	TITLE SHEET								
2	WATER - 2	2023-2705	BILL OF MATERIAL, HORIZONTAL/VERTICAL CONTROL, ADDITIONAL NOTES	-							
3	WATER - 3	2023-2706	PROP. 24" WATER MAIN PLAN (STA. 0+00 TO STA. 3+00)								
4	WATER - 4	2023-2707	PROP. 24" WATER MAIN PLAN (STA. 3+00 TO STA. 9+50)								
5	WATER - 5	2023-2708	PROP. 24" WATER MAIN PLAN (STA. 9+50 TO STA. 16+00)								
6	WATER - 6	2023-2709	PROP. 24" WATER MAIN PLAN (STA. 16+00 TO STA. 22+50)								
7	WATER - 7	2023-2710	PROP. 24"/16" WATER MAIN PLAN (STA. 22+50 TO STA. 30+00)	F							
8	WATER - 8	2023-2711	PROP. 16" WATER MAIN PLAN (STA. 30+00 TO STA. 37+00)								
9	WATER - 9	2023-2712	PROP. 16" WATER MAIN PLAN (STA. 37+00 TO STA. 45+00)								
10	WATER - 10	2023-2713	PROP. 16" WATER MAIN PLAN (STA. 45+00 TO STA. 52+19)								
11	WATER - 11	2023-2714	PROP. WATER MAIN BRANCH CONNECTIONS AND FIRE HYDRANT PROFILES	F							
12	WATER - 12	2023-2715	PROP. WATER MAIN BRANCH CONNECTIONS AND FIRE HYDRANT PROFILES								
13	WATER - 13	2023-2716	PROP. WATER MAIN BRANCH CONNECTIONS AND FIRE HYDRANT PROFILES	-							
14	WATER - 14	2023-2717	PROP. WATER MAIN BRANCH CONNECTIONS AND FIRE HYDRANT PROFILES								
15	WATER - 15	2023-2718	WATER HOUSE CONNECTIONS CHART AND MISCELLANEOUS TABLES								
16	WATER - 16	2023-2719	SPECIAL DETAILS								
17	WATER - 17	2023-2720	SUGGESTED SEQUENCE OF CONSTRUCTION								
18	WATER - 18	2023-2721	VALVE SHUTDOWN MAP								
19	CORRO - 1	2023-2722	CORROSION CONTROL PLAN (STA. 0+00 TO STA. 6+50)								
20	CORRO - 2	2023-2723	CORROSION CONTROL PLAN (STA. 6+50 TO STA. 16+00)								
21	CORRO - 3	2023-2724	CORROSION CONTROL PLAN (STA. 16+00 TO STA. 25+50)								
22	CORRO - 4	2023-2725	CORROSION CONTROL PLAN (STA. 25+50 TO STA. 35+50)								
23	CORRO - 5	2023-2726	CORROSION CONTROL PLAN (STA. 35+50 TO STA. 45+00)								
24	CORRO - 6	2023-2727	CORROSION CONTROL PLAN (STA. 45+00 TO STA. 52+19)								
25	CORRO - 7	2023-2728	CORROSION CONTROL DETAILS								
26	CORRO - 8	2023-2729	CORROSION CONTROL DETAILS								
27	CORRO - 9	2023-2730	CORROSION CONTROL DETAILS								

DESIGN PROFESSIONAL:

NAME: THE WILSON T. BALLARD COMPANY

ADDRESS: 17 GWYNNS MILL COURT,

ATTN : SHAWN BURNETT

PHONE: 410-363-0150 EMAIL: SBURNETT@WTBCO.COM

OWINGS MILLS, MD. 21117

	ION	DESCRIPT	DRAWING NO.	SHEET DESIGNATION	EET NO.
)	. 0+00 TO STA. 12+00)	TRAFFIC CONTROL PLAN (STA	2023-2731	TRAFF - 1	28
)	12+00 TO STA. 28+50)	TRAFFIC CONTROL PLAN (STA	2023-2732	TRAFF - 2	29
)	. 28+50 TO STA. 46+00)	TRAFFIC CONTROL PLAN (STA	2023-2733	TRAFF - 3	30
)	. 46+00 TO STA. 52+19)	TRAFFIC CONTROL PLAN (STA	2023-2734	TRAFF - 4	31
	CIAL DETAIL 'A'	TRAFFIC CONTROL SPE	2023-2735	TRAFF - 5	32
	CIAL DETAIL 'B'	TRAFFIC CONTROL SPE	2023-2736	TRAFF - 6	33
	CIAL DETAIL 'C'	TRAFFIC CONTROL SPE	2023-2737	TRAFF - 7	34
	CIAL DETAIL 'D'	TRAFFIC CONTROL SPE	2023-2738	TRAFF - 8	35
IEET	ADING PLAN TITLE SHEE	EROSION AND SEDIMENT AND GR	2023-2739	SC-1	36
GN	L, CONSTRUCTION SIGN	HORIZONTAL/VERTICAL CONTRO	2023-2740	SC-2	37
	ND GRADING PLAN	EROSION AND SEDIMENT A	2023-2741	SC-3	38
	ND GRADING PLAN	EROSION AND SEDIMENT A	2023-2742	SC-4	39
	ND GRADING PLAN	EROSION AND SEDIMENT A	2023-2743	SC-5	40
	ND GRADING PLAN	EROSION AND SEDIMENT A	2023-2744	SC-6	41
	CONTROL DETAILS	EROSION AND SEDIMENT	2023-2745	SC-7	42
	CONTROL NOTES	EROSION AND SEDIMENT	2023-2746	SC-8	43
	CONTROL NOTES	EROSION AND SEDIMENT	2023-2747	SC-9	44

LIST OF DRAWINGS CONTINUED

CITY PLATS AA-42

BB-42, 43

CC-43, 44

ADC MAP (29TH EDITION) PAGE: 4821, GRID: J-10 PAGE: 4821, GRID: J-01, K-01,

K-02

DD-43, 44, 45 EE-44, 45, 46

LOWEST ELEVATION TOP OF MAIN: 11.8' NORMAL OPERATING PRESSURE: 90 PSI TEST PRESSURE: 135 PSI WATER ZONE: 1st

DESIGN AND DRAWING BASED ON MARYLAND COORDINATE SYSTEM HORIZONTAL - NAD 83/91 VERTICAL - NAVD 88

TOTAL AREA TO BE DISTURBED: 0.94 ACRES 40,887 SQ. FT.

CONTRACTOR: DATE COMPLETED SPECTOR: CATHODIC PROTECTION SYSTEM METHOD (POTABLE WATER ONLY): BONDED COATED PIPE PIPE DIAMETER(S): \_ N/A - ZINC COATED PIPE WITH POLYETHYLENE PIPE DIAMETER(S): \_ ENCASEMENT OTHER (SPECIFY): PIPE DIAMETER(S): \_

CONTRACT COMPLETION BOX

WATER SH 1 OF 1

SHEET DESIGNATION CONTRACT NUMBER

\* \* \* \*

23186-WX0 JOB ORDER NUMBER 231-203-0067-0783 SHEET 1 OF 44 DRAWING NUMBER 2023-2704

FILE NO .:

TOWSON, MD. 21204 CHIEF, UTILITIES ENGINEERING SECTION PHONE: 410-887-3300 DPW & TRANSPORTATION APPROVED BY: Loak Culy for DIRECTO BALTIMORE COUNTY DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION BUREAU OF ENGINEERING & CONSTRUCTION ATE: 8-21-2025 BUR. OF ENGINEERING & CONSTRUCTION

BACK RIVER NECK ROAD

FROM HOMBERG AVENUE TO NORTH OF HYDE PARK ROAD

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

TITLE SHEET

SUBDIVISION: BACK RIVER NECK

OWNER/DEVELOPER:

NAME: BALTIMORE COUNTY DPW&T BUREAU OF

DDRESS: 111 W. CHESAPEAKE AVENUE,

ENGINEERING AND CONSTRUCITON

ELECTION DIST. NO.: 15C7

Addendum No. 1

Contract No. 23186 WX0

Revised, October 21, 2025

Upinder Singh

10	TAL BILL OF MATERIALS	HOH	RIZONTAL CO	
NO.	DESCRIPTION	SIZE	TRAVERSE	
2913 L.F.	DUCTILE IRON PIPE	24"	POINT	NORTHING
2325 L.F.	DUCTILE IRON PIPE	16"	24	596254.52
169 L.F. 480 <del>512</del> L.F.	DUCTILE IRON PIPE DUCTILE IRON PIPE	12"		
352 <del>342</del> L.F.	DUCTILE IRON PIPE	6"	25	596826.06
22 L.F.	DUCTILE IRON PIPE	4"	26	597673.17
149 L.F.	COPPER	2"	27	598553.06
81 L.F.	COPPER	1 1/2"	28	599127.32
125 L.F.	COPPER	1"	29	599698.81
<del>-1036</del> L.F.	COPPER	3/4"	30	600306.56
37 <del>38</del> EA.	TAP AND CORP STOP	3/4"	40	
5 EA. 3 EA.	TAP AND CORP STOP TAP AND CORP STOP	1"		597090.33
4 EA.	TAP AND CORP STOP	2"	41	597455.04
9 EA.	1/8 BEND	24"	110	596016.49
2 EA.	1/32 BEND	24"	111	596625.65
9 EA.	1/8 BEND	16"	113	598057.99
4 EA.	1/32 BEND	16"	114	
4 EA.	1/8 BEND	12"	2 10 10	598338.86
5 EA.	1/16 BEND	12"	115	598865.53
27 EA.	1/8 BEND	8"	116	599272.01
9 EA.	1/16 BEND	8"	117	599803.18
4 EA.	1/32 BEND	8" 6"	118	600094.62
7 EA. 1 EA.	1/8 BEND 1/8 BEND	4"	124	597435.37
2 EA.	1/16 BEND	4"		
1 EA.	CROSS	24"X8"	125	597169.37
6 EA.	TEE	24"X8"	127	595694.19
7妾EA.	TEE	24"X6"	743	597567.22
1 EA.	TEE	24"X4"	744	597738.85
3 EA.	TEE	16"X12"	745	595447.22
2 EA.	TEE	16"X8"		
4 EA. 1 EA.	TEE REDUCER	16"X6" 24"X16"		
2 EA.	VALVE AND VAULT	24 × 16		
1 EA.	VALVE AND VAULT	16"		
3 EA.	VALVE AND VAULT	12"		
10 EA.	VALVE AND VAULT	8"		
11 <del>12</del> EA.	VALVE AND VAULT	6"		
1 EA.	VALVE AND VAULT	4"		
8 <del>3</del> EA.	FIRE HYDRANT	-		
1 EA.	WYE	24"X24"		
1 EA.	WE	24"X16"		
3 EA. 10 EA.	WYE WYE	12"X12" 8"X8"		
3 EA.	WYE	6"X6"		
1 EA.	WYE	4"X4"		
1 EA.	CAP	24"		
3 EA.	CAP	16"		
3 EA.	CAP	12"		
10 EA.	CAP	8"		
3 EA.	CAP	6"		
1 EA.	CAP	4"		
1 EA.	PLUG	24"		
1 EA. 3 EA.	PLUG PLUG	16"		
3 EA. 10 EA.	PLUG	8"		3
3 EA.	PLUG	6"		
1 EA.	PLUG	4"		
2 EA.	SLEEVE	24"		
2 EA.	SLEEVE	16"		
3 EA.	SLEEVE	12"		
10 EA.	SLEEVE	8"		

3 EA.

1 EA.

2 EA.

2 EA.

3 EA.

10 EA.

3 EA.

1 EA.

1 EA.

14950 15050 L.F. | TEMPORARY BY-PASS PIPE

SLEEVE

SLEEVE

SPACER

SPACER

SPACER

SPACER

SPACER

SPACER

DIP TO HDPE ADAPTER

DIP TO PCCP ADAPTER 24"

12"

12"

# MDE NOTES:

**EASTING** 

1471056.41

1470655.65

1469934.56

1469397.57

1468913.97

1468492.25

1468125.45

1470922.88

1470331.97

1471229.18 1470721.84 1469744.78

1469460.88

1469105.95 1468829.28 1468421.37

1468318.91

1470113.95

1470331.31

1471383.42

1470987.01

1471919.80

1471577.81

- DISINFECTION OF MAINS AND BACTERIOLOGICAL SAMPLING REQUIREMENTS. A. FOR ALL BALTIMORE COUNTY CAPITAL PROJECTS, WATER TESTING SHALL BE PERFORMED BY BALTIMORE CITY PERSONNEL
  - B. THE COMPLETED WATER MAINS MUST BE DISINFECTED AND TESTED IN ACCORDANCE WITH THE
  - LATEST VERSION OF AWWA STANDARD C651.

    C. AFTER DISINFECTION, 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.

  D. A COPY OF THE SAMPLE RESULTS SHALL BE SENT VIA EMAIL TO:

  GAVIN.COURTRIGHT@MARYLAND.GOV AND WATERSUPPLY.SAMPLERESULTS@MARYLAND.GOV
- A. 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/NSF 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 OLD LITY ASSOCIATION LIST E IL.) UNDERWRITERS LABORATORY, NORTHBOOK IL, AND WATER QUALITY ASSOCIATION, LISLE IL).
- LEAD-FREE MATERIAL NOTE: A. IN COMPLIANCE WITH COMAR 09.20.01.03 AND THE SAFE DRINKING WATER ACT (SECTION 1417(A)(4)(8), 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 RELIED 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

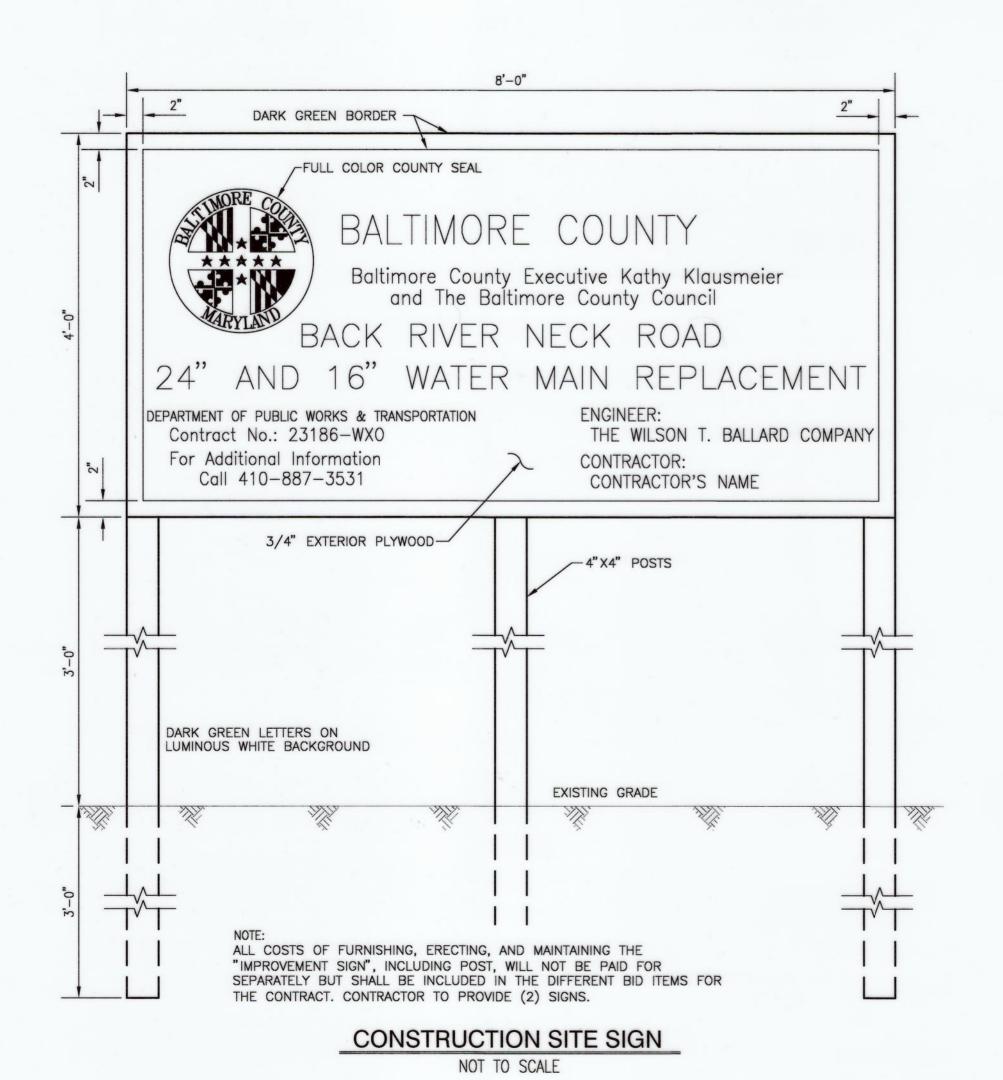
- 1. CHLORINATED WATER DISCHARGES TO THE 8-INCH SEWERS LOCATED IN THE AREA WILL BE LIMITED TO A RATE NOT TO EXCEED 50 GALLONS PER MINUTE (GPM).
- 2. FEDERAL REGULATION REQUIRES DOCUMENTATION OF ANY DISCHARGE FROM THE SANITARY SEWER COLLECTION SYSTEM AND THE CAUSE OF THE DISCHARGE. TO MEET THESE REQUIREMENTS, 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.
- 3. ALL DISCHARGES WILL BE RESTRICTED TO DRY WEATHER AND NOT LESS THAN 24 HOURS AFTER ANY
- 4. 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.

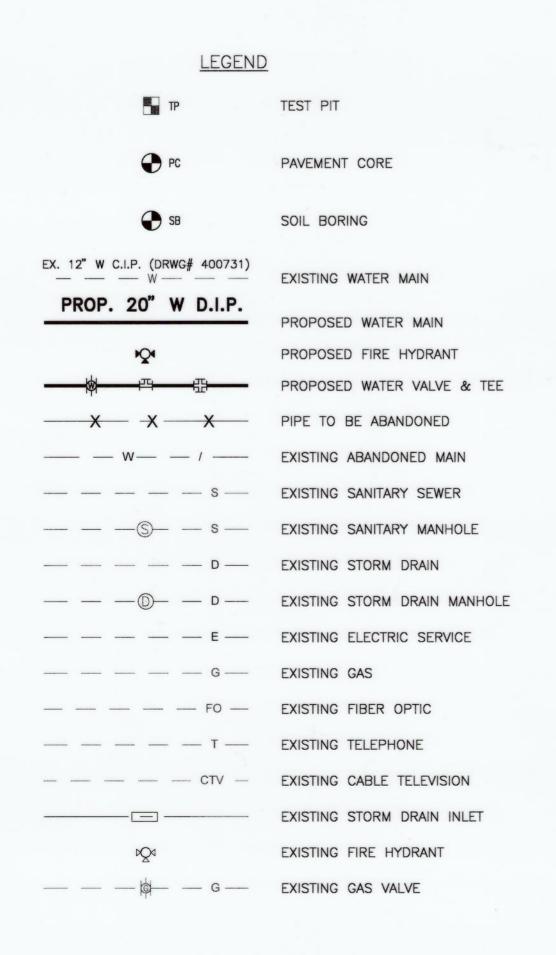
## EMERGENCY MANAGEMENT NOTES

- DPW INSPECTORS WILL NOTIFY THE FIRE DEPARTMENT ADMINISTRATIVE DUTY OFFICER (ADO) OF ANY PLANNED WATER OUTAGE. (CONTACT: FIRE\_ADO OR 410-307-2052.)
- 2. DPW INSPECTORS WILL NOTIFY BALTIMORE CITY'S 311 OF ANY PLANNED WATER OUTAGE.
- FOR OUTAGES AFFECTING MORE THAN 200 SERVICES AND/OR THAT ARE MORE THAN EIGHT (8) HOURS IN DURATION, CONTRACTORS WILL NOTE IN THEIR PLANS TO NOTIFY THE FIRE DEPARTMENT ADMINISTRATIVE DUTY OFFICER (ADO) AND THE OFFICE OF EMERGENCY MANAGEMENT BY EMAIL AND BY PHONE. (emergencymanagement@baltimorecountymd.gov and

SUBDIVISION: BACK RIVER NECK

	BENCHMARK (VERTICAL CONTROL)											
BENCHMARK	SENCHMARK 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								





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

SEAL PROFESSIONAL CERTIFICATION 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 WTB 9/24/25 PLAN SCALE: SEE DRAWING 2023-2704 R.O.W NO. PROFILE SCALE: VERT: 1"-6" FOR ORIGINAL SIGNATURES \_\_\_, EXPIRATION DATE \_\_\_ 10/21/26 LICENSE NO. 20615 Contract Completion Box ENGINEER: SHAWN BURNETT DESIGN BY: DS BUREAU OF ENGINEERING BUILDINGS HIGHWAYS STRUCTURES STORM DRAINS SEWER WATER FIELD ENGINEER BUR. OF ENGINEERING & CONSTRUCTION THE WILSON T. BALLARD CO. DRAWN BY: TL AS-BUILT PER RECORD PRINT SEE DRAWING 2023-2704 SEE DRAWING 2023-2704 FOR ORIGINAL SIGNATURES FOR ORIGINAL SIGNATURES DATE REVIEWED: 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 BILL OF MATERIALS, HORZ./VERT. CONTROL, ADDITIONAL NOTES

Contract No. 23186 WX0 Addendum No. 1 Revised, October 21, 2025

ELECTION DIST. NO.: 15C7

\*\*\*\*

CONTRACTOR:

PIPE MATERIAL:

ENCASEMENT OTHER (SPECIFY):

BONDED COATED PIPE N/A - ZINC COATED PIPE WITH POLYETHYLENE

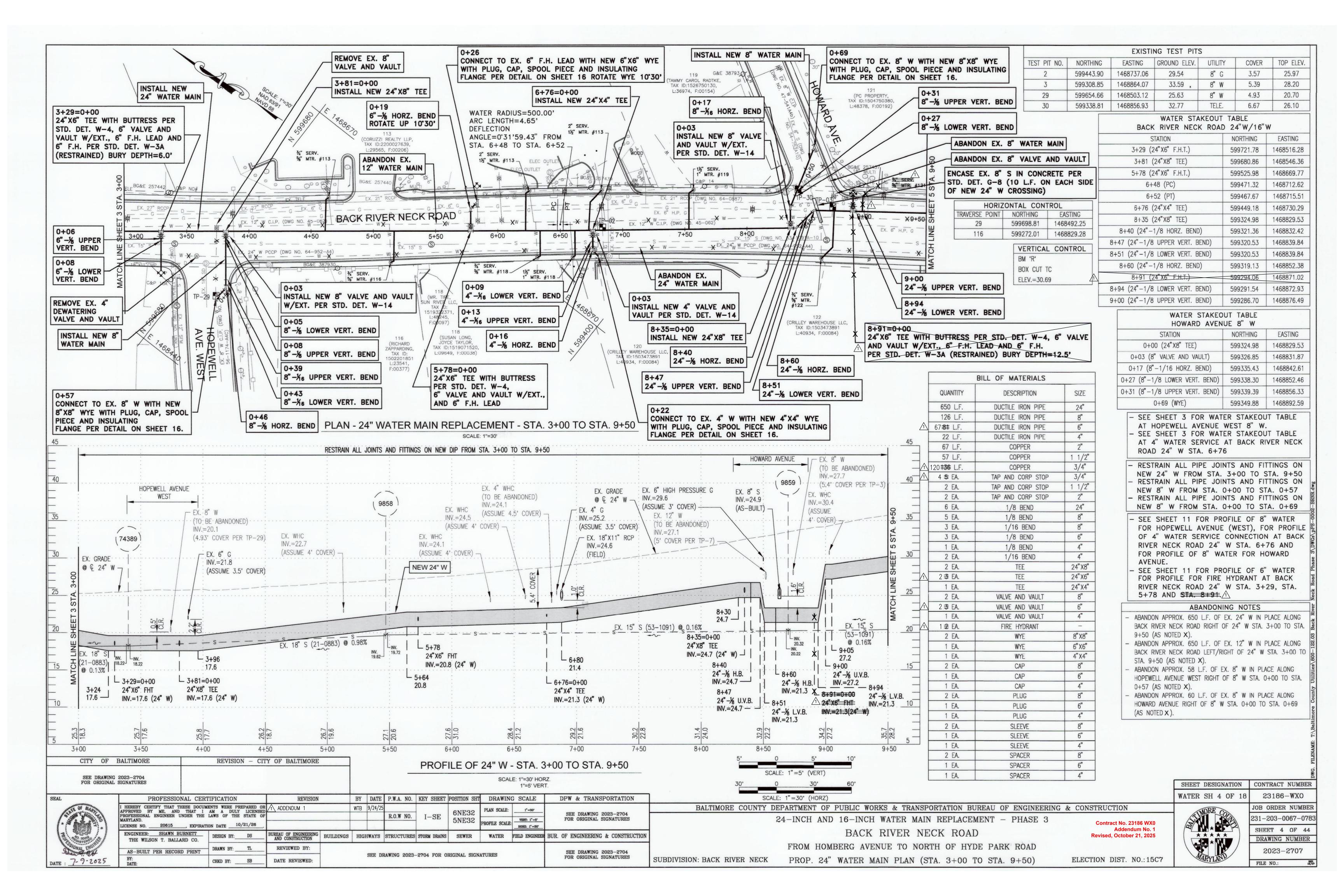
SHEET DESIGNATION CONTRACT NUMBER WATER SH 2 OF 18 23186-WX0 JOB ORDER NUMBER 231-203-0067-0783 SHEET 2 OF 44 DRAWING NUMBER 2023-2705 FILE NO .:

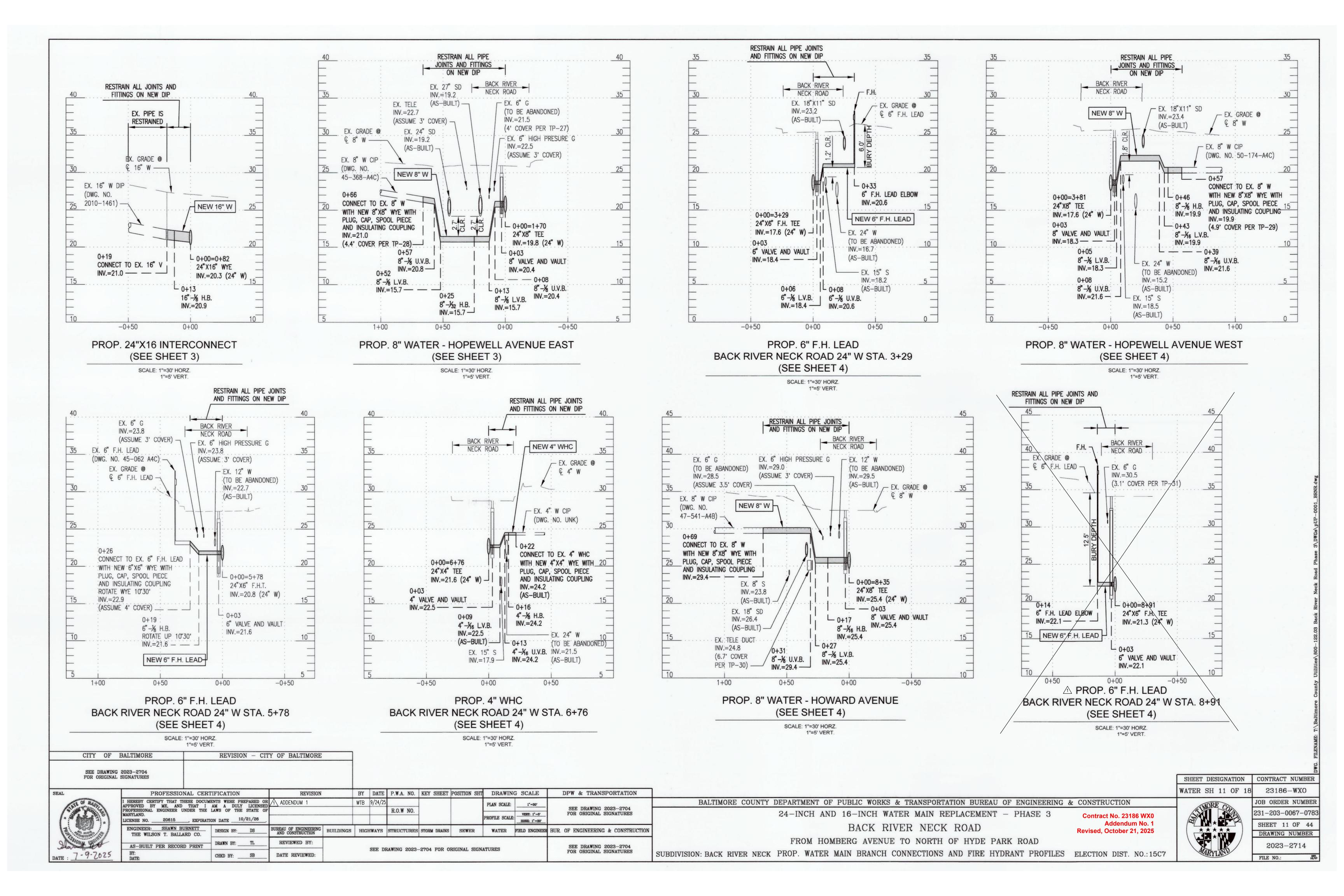
PIPE DIAMETER(S): \_

PIPE DIAMETER(S): \_

CONTRACT COMPLETION BOX

CATHODIC PROTECTION SYSTEM METHOD (POTABLE WATER ONLY):





							APPROX. PROP. LENGTH	2514242 (10752	EX. MATERIAL OF SERVICE LINE
STATION	SERVICE ADDRESS	EX. PROPERTY ID	EX. METER TYPE	EX. METER ID	EX. SIZE OF SERVICE	TYPE OF SERVICE	OF SERVICE (LF)	REMARKS/NOTES	(TO BE VERIFIED BY CONTRACTO
0+18 10	00 BACK RIVER NECK ROAD	1516600841	DOMESTIC	54353649	1.5"	COMMERCIAL	24		
10	03 BACK RIVER NECK ROAD	1511150972	DOMESTIC	76345798	3/4"	COMMERCIAL		FED FROM HOPEWELL AVENUE	*
1+22 10	04 BACK RIVER NECK ROAD	1513108280	DOMESTIC	77886545	3/4"	COMMERCIAL	25	***	4
1+73	04 BACK RIVER NECK ROAD	1513108280	DOMESTIC	77886545	3/4"	COMMERCIAL	24		
2+59 10	05 BACK RIVER NECK ROAD	1511150971	DOMESTIC	79854462	3/4"	COMMERCIAL	31		
4+61 1	13 BACK RIVER NECK ROAD	2200027639	DOMESTIC	79854287	3/4"	COMMERCIAL	28		
6+22	13 BACK RIVER NECK ROAD	2200027639	DETECTOR CHECK	60950276	2"	COMMERCIAL	34		
6+73	13 BACK RIVER NECK ROAD	2200027639	DETECTOR CHECK	60950276	2"	COMMERCIAL	36		
5+17 1	16 BACK RIVER NECK ROAD	1502201851	DOMESTIC	77886572	3/4"	RESIDENTIAL	27		
6+34	18 BACK RIVER NECK ROAD	1519322371	DOMESTIC		3/4"	COMMERCIAL	23		
6+62 1	18 BACK RIVER NECK ROAD	1519071520	DOMESTIC		1.5"	COMMERCIAL	23		*
7+53 1	19 BACK RIVER NECK ROAD	1526750130	DOMESTIC	79657028	1.5"	COMMERCIAL	34		
8+99 1:	21 BACK RIVER NECK ROAD	1504750380	DOMESTIC	79854459	3/4"	RESIDENTIAL	16		
8+76 12	22 BACK RIVER NECK ROAD	1503473891			3/4"	COMMERCIAL	42		
10+18 12	23 BACK RIVER NECK ROAD	1503473890	DOMESTIC	77893598	1"	COMMERCIAL	15		
12	25 BACK RIVER NECK ROAD	1512001800	DOMESTIC	999999999	3/4"	ABANDONED	N/A		
1+08 12	27 BACK RIVER NECK ROAD	1508651382	DOMESTIC	79854463	3/4"	COMMERCIAL	14		
2+08 12	29 BACK RIVER NECK ROAD	1513551170	DOMESTIC	81542423	3/4"	COMMERCIAL	16		4
12+50 12	29 BACK RIVER NECK ROAD	1513551170	DOMESTIC	79856837	3/4"	COMMERCIAL	15		4
14+22 13	37 BACK RIVER NECK ROAD	1514900021	DOMESTIC	79400634	1"	COMMERCIAL	21		
12+96 14	40 BACK RIVER NECK ROAD	1516601360	DOMESTIC	77886499	3/4"	COMMERCIAL	37		
16+62 14	43 BACK RIVER NECK ROAD	1519850541	DETECTOR CHECK	79854458	3/4"	COMMERCIAL	23		
14	45 BACK RIVER NECK ROAD	1519001266	DETECTOR CHECK	60950166	2"	COMMERCIAL		FED FROM WILLIAMS AVENUE	1
6+10 14	46 BACK RIVER NECK ROAD	1503770410	DOMESTIC	77893550	3/4"	COMMERCIAL	37		
9+46 14	49 BACK RIVER NECK ROAD	1600005211	DOMESTIC	79854460	3/4"	COMMERCIAL	24		
16+51 15	50 BACK RIVER NECK ROAD	1513204692	DOMESTIC	78007513	3/4"	COMMERCIAL	36		
20+38 15	51 BACK RIVER NECK ROAD	1519001261	DOMESTIC	79856205	3/4"	COMMERCIAL	26		4
17+12 15	52 BACK RIVER NECK ROAD	1512590830	DOMESTIC	77893600	1"	COMMERCIAL	36		
20	00 BACK RIVER NECK ROAD	1519610923	DOMESTIC	79856839	3/4"	COMMERCIAL		FED FROM WILLIAMS AVENUE	
21+60 20	01 BACK RIVER NECK ROAD	2100007493	DOMESTIC	60908604	2"	COMMERCIAL	32		
23+04 20	02 BACK RIVER NECK ROAD	1519270860	DOMESTIC	78007946	3/4"	COMMERCIAL	29		,
20	05 BACK RIVER NECK ROAD	2100007492	DOMESTIC	01104985	2"	COMMERCIAL		FED FROM POLES ROAD	
24+55 20	06 BACK RIVER NECK ROAD	1507582030	DOMESTIC	77886543	3/4"	RESIDENTIAL	31		
25+89 20	08 BACK RIVER NECK ROAD	1523750010	DOMESTIC	77877755	3/4"	RESIDENTIAL	25		
26+13 2	14 BACK RIVER NECK ROAD	1507582031	DOMESTIC	77886501	3/4"	COMMERCIAL	26		4
	14 BACK RIVER NECK ROAD	1507582031	DOMESTIC	77886642	3/4"	COMMERCIAL	27		
	15 BACK RIVER NECK ROAD	1900005397	DOMESTIC	26074207	3/4"	COMMERCIAL	28		
	24 BACK RIVER NECK ROAD	1519910440	DOMESTIC	77893584	1"	RESIDENTIAL	26		
	26 BACK RIVER NECK ROAD	1700001816	DOMESTIC	77886538	3/4"	RESIDENTIAL	13		1
	13 BACK RIVER NECK ROAD	1700013589	DETECTOR CHECK	60876085	2"	COMMERCIAL	50		
	29 BACK RIVER NECK ROAD	1512200120	DOMESTIC	77886508	3/4"	RESIDENTIAL	31		
	30 BACK RIVER NECK ROAD	1523501590	DOMESTIC	77886565	3/4"	RESIDENTIAL	24		
	31 BACK RIVER NECK ROAD	2200011163	DOMESTIC		3/4"	RESIDENTIAL	34		4
	33 BACK RIVER NECK ROAD	1507000980	DOMESTIC	77886537	3/4"	RESIDENTIAL	32		
	34 BACK RIVER NECK ROAD	2500016136	DOMESTIC	24766844	3/4"	RESIDENTIAL	32		
	35 BACK RIVER NECK ROAD	1502651130	DOMESTIC	77886513	3/4"	RESIDENTIAL	24		
	36 BACK RIVER NECK ROAD	2500016135	DOMESTIC		3/4"	RESIDENTIAL	31		
	37 BACK RIVER NECK ROAD	1516900161	DOMESTIC	77886510	3/4"	RESIDENTIAL	27		
	38 BACK RIVER NECK ROAD	1513203610	DOMESTIC	77886535	3/4"	RESIDENTIAL	31		
	440 BACK RIVER NECK ROAD	2500016134	DOMESTIC	7 7 0 0 0 0 0 0 0	3/4"	RESIDENTIAL	31		
	42 BACK RIVER NECK ROAD	2500016134	DOMESTIC		3/4"	RESIDENTIAL	31		
	45 BACK RIVER NECK ROAD	2300016133	DOMESTIC	77886528	3/4"	RESIDENTIAL	26		
	/349 BACK RIVER NECK ROAD	2200002930		77886516	1"	RESIDENTIAL	27		
	51 BACK RIVER NECK ROAD	1513550970	DOMESTIC DOMESTIC	77886573	3/4"	RESIDENTIAL	28		
					<u> </u>				
	53 BACK RIVER NECK ROAD	1503232040	DOMESTIC	77886550	3/4"	RESIDENTIAL	31		

BILL OF	MATERIALS (SEE SHEE	T 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.	1/32 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"
2 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	12"
2 EA.	SLEEVE	8"
1 EA.	SPACER	12"
2 EA.	SPACER	8"

BILL OF	MATERIALS (SEE SHEET	10)	
QUANTITY	DESCRIPTION	SIZE	
719 L.F.	DUCTILE IRON PIPE		
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"X1	
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 BROWNS ROAD 12"W		
STATION	NORTHING	EASTING
0+00 (16"X12" TEE)	596187.81	1471062.8
0+03 (12" VALVE AND VAULT)	596190.63	1471068.6
0+30 (12"-1/8 HORZ. BEND)	596207.75	1471093.1
0+35 (12"-1/16 LOWER VERT. BEND)	596206.70	1471098.0
0+39 (12"-1/16 UPPER VERT. BEND)	596205.86	1471101.9
0+43 (WYE)	596205.10	1471105.5

WATER STAKEOU HUDSON VIEW ROAD STA. 48-		HEET 10)
STATION	NORTHING	EASTING
0+00 (16"X8" TEE)	596114.03	1471122.0
0+03 (8" VALVE AND VAULT)	595905.72	1471263.7
0+07 (8"-1/8 UPPER VERT. BEND)	595903.21	1471260.5
0+09 (8"-1/8 LOWER VERT. BEND)	595901.95	1471258.6
0+33 (8"-1/8 HORZ. BEND)	595890.33	1471241.6
0+35 (8"1-/8 LOWER VERT. BEND)	595890.69	1471239.7
0+39 (8"-1/8 UPPER VERT. BEND)	595891.39	1471235.7
0+41 (WYE)	595891.68	1471234.1

WATER STAKEOU HUDSON VIEW ROAD STA. 50-		HEET 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: ☐ BONDED COATED PIPE PIPE DIAMETER(S): \_

N/A - ZINC COATED PIPE
WITH POLYETHYLENE
ENCASEMENT PIPE DIAMETER(S): \_\_ OTHER (SPECIFY): SHEET DESIGNATION CONTRACT NUMBER

PIPE DIAMETER(S): \_\_\_

WATER SH 15 OF 18 23186-WXO JOB ORDER NUMBER 231-203-0067-0783

SHEET 15 OF 44 DRAWING NUMBER 2023-2718

APPROVED PROFESSION MARYLAND. LICENSE NO ENGINEE THE W	PROFESSIONAL CE	REVISION		BY D	ATE	P.W.A. NO.	KEY SHEET	POSITION SHT	DRAWIN	G SCALE	DPW & TRANSPORTATION	
	APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.		ADDENDUM 1		WTB 9/	24/25				PLAN SCALE:	1"=30"	
			F			-	R.O.W NO.			PROFILE SCALE	VERT: 1"=5"	SEE DRAWING 2023-2704 FOR ORIGINAL SIGNATURES
	LICENSE NO. 20615 EXPIRENCIAL ENGINEER: SHAWN BURNETT	ATION DATE 10/21/26 DESIGN BY: DS	BUREAU OF ENGINEERING	BUILDINGS	нісни	VQ	STRICTIPES	STORM DRAINS	-2011/00/11/00		HORZ: 1 = 30'	BUR. OF ENGINEERING & CONSTRUCTION
	THE WILSON T. BALLARD CO.	DRAWN BY: TL	AND CONSTRUCTION  REVIEWED BY:	BOILDINGS	IIIGIIWA	115	BIROCIORES	STORM DRAINS	SEWER	WAIEK	FISID ENGINEE	BOK. OF ENGINEERING & CONSTRUCTION
	AS-BUILT PER RECORD PRINT BY:		-	SEE DRAWING 2023-2704 FOR ORIGINAL SIGNATURES					SEE DRAWING 2023-2704 FOR ORIGINAL SIGNATURES			
DATE : 7-9-2025	CHKD BY: SB	DATE REVIEWED:								*		

REVISION - CITY OF BALTIMORE

CITY OF BALTIMORE

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

Contract No. 23186 WX0 Addendum No. 1

Revised, October 21, 2025