



# ERIE COUNTY WATER AUTHORITY

## INTEROFFICE MEMORANDUM

March 5, 2026

To: Jennifer Hibit, Secretary to the Authority

From: Michael J. Quinn, PE, Director of Distribution 

Subject: Board Authorization for Miscellaneous System Improvements  
Water Distribution System Replacements and Improvements

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Please be advised that Authority has completed a number of water distribution system improvement projects within the Direct Service areas of the Erie County Water Authority Service Area under the above-referenced contract.

These projects involve the installation and/or replacement of pipes, valves and hydrants of the Authority as well as the abandonment of the existing assets and removal of them from our inventory that have been developed and designed by the Engineering Department. The new assets in some cases replace existing Authority assets. The action to replace and retire assets requires Board consideration.

Attached find the Construction Authorization forms and design documents for the following projects:

- PN 202100039 – Emergency Pump Piping Replacement 6224 Broadway. (LNTN).
- PN 202100138 – 4” Main Extension – 104 Lafayette Blvd. (AMTN).
- PN 202100158 – Armor Area Water System Improvement – 5459 South Abbott Rd. (HATN)
- PN 202100190 – Kandey – Sturgeon Lagoon Sludge Line (EVTN)
- PN 202100233 – Hydrant Replacement – 4401 Transit Rd. (CLTN)
- PN 202100244 – Veterans Park Tank Drain – 727 Niagara St. (TOCY)
- PN 202100188 – Kandey – Sedgemoor and Fenwick (AMTN)
- PN 202100314 – Emergency Filter 4 Valve Replacement – Van De Water WTP (TOTN)
- PN 202100241 – Main Extension Hydrant Install – 4030 Southwestern Blvd. (HATN)
- PN 202300047 – Hydrant G17-H56 Replacement – 5469 Camp Rd. (HATN)
- PN 202300047 – Hydrant J15-A03 Replacement – 3018 Abbott Rd. (HATN)
- PN 202300047 – Hydrant G16-E60 Replacement – Lake Shore Rd. at Rogers Rd. (HATN)
- PN 202300047 – Hydrant H21-E37 Replacement – 3987 Schintzius Rd. (EDTN)
- PN 202300280 – Big Tree Hydraulic Improvements – 4410 Big tree Rd. (HATN)
- PN 202300247 – Valve Box Replacement – Southwestern Blvd. at Camp Rd. (HATN)
- PN 202400112 – Sheridan Dr. Pressure Zone Transfer (CLTN)
- PN 202400206 – Lake Shore Rd e/o Hewson Rd Drain Down Valve (HATN)
- PN 202400210 – North America Dr. Sample Corp Install (WSTN)
- PN 202400274 – Main Relocation – 27 Joanne Dr. (CHTN)

To: Jennifer Hibit  
Secretary to the Authority

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- PN 202500031 – Valve Installation – McKinley Pkwy & Boston State Rd. (HATN)
- PN 202400112 – PRV Pit Valve Installation – Sheridan Dr. & Harris Hill Rd. (CLTN)
- PN 202300201 – PRV Installation – 5058 Abbott Rd. & Gerber Pkwy (OPTN)
- PN 202500147 – PRV Installation – 5130 Crittenden Rd. (NETN)
- PN 202500186 – Valve Replacement – 58 Syracuse St. (TOCY)
- PN 202500255 – Main Leak Repair – 3972 Union Rd. (CHTN)
- PN 202500082 – Install a Public Hydrant – 699 South Youngs Rd. (AMTN)
- PN 202600040 – Valve Removal – 2745 Seneca St. (WSTN)
- PN 202600035 – Hydrant Replacement – 150 Lebrun Rd. (AMTN)

These documents identify all the pertinent data including the cost of the new assets for each project.

Also attached please find the associated authorization form. Please advise if you require additional information.

MJQ:jmf  
Attachments  
cc: M.Stoklosa  
ECWA-249-202601

**ERIE COUNTY WATER AUTHORITY  
AUTHORIZATION FORM  
For Approval/Execution of Board Meeting Documents**

**Document Name:** \_\_\_\_\_ **Project No.:** \_\_\_\_\_

**Description:** \_\_\_\_\_

**Item Description:**

Choose one: \_\_\_\_\_

Other: \_\_\_\_\_

**Action Requested:**

Choose one \_\_\_\_\_

Other: \_\_\_\_\_

**Approvals Required:**

**APPROVED AS TO CONTENT:**

Chief Financial Officer \_\_\_\_\_ Date: \_\_\_\_\_

Chief Operating Officer \_\_\_\_\_ Date: \_\_\_\_\_

Claims Rep. – Risk Manager \_\_\_\_\_ Date: \_\_\_\_\_

Comptroller \_\_\_\_\_ Date: \_\_\_\_\_

Director of Administration \_\_\_\_\_ Date: \_\_\_\_\_

Director of Distribution \_\_\_\_\_ Date: 3/5/2025

Director of Human Resources \_\_\_\_\_ Date: \_\_\_\_\_

Director of IT \_\_\_\_\_ Date: \_\_\_\_\_

Director of Operations \_\_\_\_\_ Date: \_\_\_\_\_

Director of Planning & Water Supply *William W. Wheeler* \_\_\_\_\_ Date: 03/06/2026

Director of Production \_\_\_\_\_ Date: \_\_\_\_\_

Director of Water Quality \_\_\_\_\_ Date: \_\_\_\_\_

Executive Engineer *Leonard F. Konaleski* \_\_\_\_\_ Date: 3/9/2026

General Counsel (Legal) \_\_\_\_\_ Date: \_\_\_\_\_

Other: \_\_\_\_\_ Date: \_\_\_\_\_

**APPROVED FOR BOARD RESOLUTION:**

Secretary to the Authority *Just Huisa* \_\_\_\_\_ Date: 03/09/2026

Remarks: \_\_\_\_\_

Resolution Date: \_\_\_\_\_ Item No: \_\_\_\_\_

**ERIE COUNTY WATER AUTHORITY  
CONSTRUCTION AUTHORIZATION**

Project No. 202100039  
Budget No. \_\_\_\_\_

Authorization No.: EC 7166  
Date: 7/28/2021  
Inputted By/Date: \_\_\_\_\_

January 2021 Estimate Starting Date  
August 2021 Estimate Complete Date  
\_\_\_\_\_ yes X no Retirement Involved  
\_\_\_\_\_ Public Street  
X Private Right of Way  
\_\_\_\_\_ On Authority's Prop  
\_\_\_\_\_ Tax Districts \_\_\_\_\_  
Name of Grantor of Easement \_\_\_\_\_  
\_\_\_\_\_ Date of Easement \_\_\_\_\_

**TITLE OF PROJECT:** Broadway PS/Pump  
Suction & Header Piping Replacement.

**CLASS OF MAIN INSTALLATION:**  
\_\_\_\_\_ System Betterment  
\_\_\_\_\_ Bldr/Cont/Dev. Agree.  
\_\_\_\_\_ Owner Occupant Cont.  
\_\_\_\_\_ Special Revenue Cont.

**DETAILED DESCRIPTION AND PURPOSE:**  
Emergency Pump Suction & Header Piping  
Replacement at Broadway Pump Station. Poor  
Condition of Piping Due to Age & Corrosion.  
Unable to Repair.

**ESTIMATE COST**

(1) Total Est. Cost \$ 4,326.91  
(2) \_\_\_\_\_ Meters and Service @ \_\_\_\_\_ \$ \_\_\_\_\_  
(3) Removal Cost Less Salvage \$ \_\_\_\_\_  
(4) Gross Investment \$ 4,326.91

**DEDUCT**

(5) Const. Advance \$ 0  
(6) Service Conn. \$ \_\_\_\_\_  
(7) Refunds \$ \_\_\_\_\_  
(8) Net Auth. Invest. \$ 4,326.91

**BUDGETARY DATA**

(9) Tot. Budget Expnd. \$ \_\_\_\_\_  
(10) This Authorization \$ \_\_\_\_\_  
(11) Pre Approved \$ \_\_\_\_\_  
(12) Tot. Apvl. To Date \$ \_\_\_\_\_  
(13) Bal. Budget Expnd. \$ \_\_\_\_\_

**APPROVALS**

Preparation Michael Stoklosa  
Director of Dist. [Signature] 2/27/2026  
Exec. Engr. [Signature] 2/27/2026  
Admn. Director \_\_\_\_\_  
Legal Dept. \_\_\_\_\_  
Acct. Dept. \_\_\_\_\_

**ESTIMATED EARNINGS & RETURNS**

**ESTIMATED INCREASE IN REVENUES**

(14) \_\_\_\_\_ Customers @ \$ \_\_\_\_\_  
\_\_\_\_\_ \$ \_\_\_\_\_  
(15) \_\_\_\_\_ Hydrants @ \$ \_\_\_\_\_  
\_\_\_\_\_ \$ \_\_\_\_\_

**EST. SAVINGS IN OPERATING EXPENSES**

(16) \_\_\_\_\_ \$ \_\_\_\_\_  
(17) Gross Increase in Earnings \$ \_\_\_\_\_

**REVENUE DEDUCTIONS**

(18) Operating Exp. \_\_\_\_\_ % \$ \_\_\_\_\_  
(19) Depreciation \$ \_\_\_\_\_  
(20) Total Deductions \$ \_\_\_\_\_  
(21) Net Income Loss \$ \_\_\_\_\_  
(22) % Return on Investment \_\_\_\_\_  
(21) divided by 8) \_\_\_\_\_ %

**RESOLUTION APPROVING**

Adopted \_\_\_\_\_  
Item No. \_\_\_\_\_

# Central Purchasing Declaration of State of Emergency

EC No.: 7166

OWIP No.: N/A

Project No.: 202100039

Date of Emergency: 1/27/2021

## Detailed Description of Emergency Condition:

Due to their age and condition, ECWA maintenance staff began replacing Broadway Pump Station valves located on the pump suction and discharge header piping in the beginning of December 2020. ECWA had the required replacement parts (valves and couplings) on hand when maintenance staff began replacing the valves. During valve replacement it was discovered that the header piping did not line up with the pump branch piping making it difficult and unsafe to put the piping back together once the valves were replaced. This was not evident prior to the valve replacement work beginning because the pipe was insulated.

Upon further analysis, the Broadway Pump Station pump suction and header piping, fittings, and valves are in poor condition due to age and corrosion. The header piping system is over thirty years old and near the end of its useful life.

Currently two of the three Broadway pumps are in service because one pump's branch piping is so out of line with the header piping it is not safe to place the pump back in service. Typically one to two pumps are required to run to meet distribution system demands and pressures within the area. With one of three pumps out of service the Production Department has concerns that if we lose one of the two operating pumps that we will not be able to meet demands.

The following equipment is required:

- Ductile iron pipe
- Restrained and unrestrained coupling adapters
- Butterfly and check valves

This list should not be considered all inclusive, as the Authority continues to assess the piping system.

**Authorized Signature:** Pursuant to the Purchasing Guidelines (Page 17) authorization granted to one or more of the following two (2) individuals: Any Commissioner, the Executive Director, Executive Engineer, and/or the Director of Administration.

If you have an ability to informally bid out some of the items please do so. thanks LL

 1/29/2021

 2/1/21

To: Purchasing System File

**ERIE COUNTY WATER AUTHORITY  
CONSTRUCTION AUTHORIZATION**

Project No. 202100138  
Budget No. \_\_\_\_\_

Authorization No.: EC 7186  
Date: 6/09/21  
Inputted By/Date: \_\_\_\_\_

May 2021 Estimate Starting Date  
July 2021 Estimate Complete Date  
yes  no Retirement Involved  
X Public Street  
Private Right of Way  
On Authority's Prop  
Tax Districts \_\_\_\_\_  
Name of Grantor of Easement \_\_\_\_\_  
Date of Easement \_\_\_\_\_

**TITLE OF PROJECT:** Lafayette Blvd. & King Pl. Water System Improvements.

**CLASS OF MAIN INSTALLATION:**  
X System Betterment  
Bldr/Cont/Dev. Agree.  
Owner Occupant Cont.  
Special Revenue Cont.

**DETAILED DESCRIPTION AND PURPOSE:**  
Replacement of 70' of 4" D.I. Pipe on Lafayette Blvd. North of King Pl. in the Town of Amherst.

**ESTIMATE COST**

(1) Total Est. Cost \$ 26,330.82  
(2) \_\_\_\_\_ Meters and Service @ \$ \_\_\_\_\_  
(3) Removal Cost Less Salvage \$ \_\_\_\_\_  
(4) Gross Investment \$ 26,330.82

**DEDUCT**

(5) Const. Advance \$ \_\_\_\_\_  
(6) Service Conn. \$ \_\_\_\_\_  
(7) Refunds \$ \_\_\_\_\_  
(8) Net Auth. Invest. \$ 26,330.82

**BUDGETARY DATA**

(9) Tot. Budget Expnd. \$ \_\_\_\_\_  
(10) This Authorization \$ \_\_\_\_\_  
(11) Pre Approved \$ \_\_\_\_\_  
(12) Tot. Apvl. To Date \$ \_\_\_\_\_  
(13) Bal. Budget Expnd. \$ \_\_\_\_\_

**APPROVALS**

Preparation Michael Stoklosa  
Dir. of Dist. \_\_\_\_\_ 6/27/2026  
Exec. Engr. Jeanne F. Konaleski 2/27/2026  
Admn. Director \_\_\_\_\_  
Legal Dept. \_\_\_\_\_  
Acct. Dept. \_\_\_\_\_

**ESTIMATED EARNINGS & RETURNS**

**ESTIMATED INCREASE IN REVENUES**

(14) Customers @ \$ \_\_\_\_\_  
\$ \_\_\_\_\_  
(15) Hydrants @ \$ \_\_\_\_\_  
\$ \_\_\_\_\_

**EST. SAVINGS IN OPERATING EXPENSES**

(16) \$ \_\_\_\_\_  
(17) Gross Increase in Earnings \$ \_\_\_\_\_

**REVENUE DEDUCTIONS**

(18) Operating Exp. \_\_\_\_\_ % \$ \_\_\_\_\_  
(19) Depreciation \$ \_\_\_\_\_  
(20) Total Deductions \$ \_\_\_\_\_  
(21) Net Income Loss \$ \_\_\_\_\_  
(22) % Return on Investment \_\_\_\_\_  
(21) divided by 8) \_\_\_\_\_ %

**RESOLUTION APPROVING**

Adopted \_\_\_\_\_  
Item No. \_\_\_\_\_

**KANDEY COMPANY INC. - Project No. K2175**  
**ECWA WATER DISTRIBUTION SYSTEM REPLACEMENTS CONTRACT # 202100009**

Attn: Bill Wheeler

K2175-2

ITEM NO.	DESCRIPTION	QTY	UM	BILLING	TOTAL
<b>Item 1 - Watermain</b>					
<b>Item 1A - 4-inch to 8-inch Watermain (PVC or DIP)</b>					
1A1	Installing 4-inch to 8-inch Watermain, 6-feet or less of cover	60.00	LF	\$80.00	\$4,800.00
1A2	For installing 4-inch to 8-inch Watermain, greater than 6-feet of cover		LF	\$95.00	\$0.00
<b>Item 1B - 10-inch to 12-inch Watermain (PVC or DIP)</b>					
1B1	For installing 10-inch to 12-inch Watermain, 6-feet or less of cover		LF	\$90.00	\$0.00
1B2	For installing 10-inch to 12-inch Watermain, greater than 6-feet of cover		LF	\$110.00	\$0.00
<b>Item 1C - High Density Polyethylene (HDPE) - HDD USE ONLY</b>					
1C1	F&I 10-inch DR9 DIPS (HDPE) Watermain for 8-inch watermain supply		LF	\$44.00	\$0.00
1C2	F&I 12-inch DR9 DIPS (HDPE) Watermain for 10-inch watermain supply		LF	\$55.00	\$0.00
1C3	F&I 16-inch DR9 DIPS (HDPE) Watermain for 12-inch watermain supply		LF	\$100.00	\$0.00
<b>Item 2 - Valves</b>					
<b>Item 2A - Gate Valves</b>					
2A1	For installing 4-inch to 8-inch Gate Valve		Ea	\$3,500.00	\$0.00
2A2	For installing 10-inch to 12-inch Gate Valve		Ea	\$3,800.00	\$0.00
<b>Item 2B - Butterfly Valves</b>					
2B2	For installing 12-inch Butterfly Valve		Ea	\$4,000.00	\$0.00
<b>Item 2C - Air Release Valve</b>					
2C1	For furnishing and installing Air Release Valve with Concrete Chamber		Ea	\$5,000.00	\$0.00
2C2	For furnishing and installing Manually Operated Air Release Assembly		Ea	\$3,000.00	\$0.00
2D1	For Existing Valve Abandonment - Complete (All Sizes)		Ea	\$1,200.00	\$0.00
<b>Item 3 - Existing Watermain Connections (Interconnections)</b>					
<b>Item 3A - Inline Connection</b>					
3A1	For 4-inch to 8-inch Inline Connection - Complete	1.00	Ea	\$2,500.00	\$2,500.00
3A2	For 10-inch to 12-inch Inline Connection - Complete		Ea	\$3,000.00	\$0.00
<b>Item 3B - Tapping Sleeve and Valve (Hot Tap)</b>					
3B1	For installing 4-inch to 8-inch Tapping Sleeve and Valve	1.00	Ea	\$5,000.00	\$5,000.00
3B2	For installing 10-inch to 12-inch Tapping Sleeve and Valve - Complete		Ea	\$5,000.00	\$0.00
<b>Item 3C - Cut-in Tee with Valve Cluster</b>					
3C1	For installing 4-inch to 8-inch Cut-in Tee with Valve Cluster - Complete		Ea	\$5,300.00	\$0.00
3C2	For installing 10-inch to 12-inch Cut-in Tee with Valve Cluster - Complete		Ea	\$5,300.00	\$0.00
<b>Item 4 - Fire Hydrants</b>					
<b>Item 4A - New Fire Hydrant Assembly</b>					
4A1	For installing New Fire Hydrant Assembly - Complete		Ea	\$1,450.00	\$0.00
<b>Item 4B - Existing Fire Hydrant Abandonment</b>					
4B1	For Existing Fire Hydrant Abandonment - Complete		Ea	\$750.00	\$0.00
<b>Item 5 - Ductile Iron (DI) Fittings</b>					
<b>Item 5A - Ductile Iron (DI) Fittings</b>					
5A1	For installing 4-inch to 8-inch Ductile Iron (DI) fittings with restraints not included under Item 3	2.00	Ea	\$250.00	\$500.00
5A2	For installing 10-inch to 12-inch Ductile Iron (DI) fittings with restraints not included under Item 3		Ea	\$300.00	\$0.00
5A3	For installing Joint Restraints per Section 15106 on existing 4-inch to 8-inch watermain		Ea	\$2,500.00	\$0.00
5A4	For installing Joint Restraints per Section 15106 on existing 10-inch to 12-inch watermain		Ea	\$3,000.00	\$0.00
<b>Item 6 - Polyethylene Encasement</b>					
<b>Item 6A - Polyethylene Encasement for Ductile Iron Pipe and Fitting</b>					
6A1	For installing Polyethylene Encasement for Ductile Iron Pipe and Fitting	60.00	LF	\$1.00	\$60.00
<b>Item 7 - Rock Excavation, Test Pit Excavation/Backfill, and Extra Excavation/Backfill</b>					
<b>Item 7A - Rock Excavation</b>					
7A1	For Rock Excavation per Section 02317, (Fixed Minimum Unit Price of \$50.00 per CY)		CY	\$300.00	\$0.00
<b>Item 7B - Test Pit Excavation and Backfill</b>					
7B1	For Test Pit Excavation and Backfill (Fixed Minimum Unit Price of \$200.00 per Each)		Ea	\$650.00	\$0.00
<b>Item 7C - Extra Excavation and Backfill</b>					
7C1	For Extra Excavation and Backfill		CY	\$50.00	\$0.00
<b>Item 8 - Special Backfill</b>					
<b>Item 8A - Select Backfill</b>					
8A1	For furnishing and installing Select Backfill	22.55	CY	\$55.00	\$1,240.25

ITEM NO.	DESCRIPTION	QTY	UM	BILLING	TOTAL
<b>Item 8B - Rip-Rap Backfill</b>					
8B1	For furnishing and installing Rip-Rap Backfill		CY	\$180.00	\$0.00
<b>Item 9 - Water Service Connections and Blow-offs</b>					
<b>Item 9A - Service Replacement/Installation</b>					
9A1	For installing 3/4-inch to 1-inch Copper Service Replacement/Installation		Ea	\$1,975.00	\$0.00
9A2	For installing 1 1/2-inch and 2-inch Copper Service Replacement/Installation		Ea	\$2,250.00	\$0.00
9A3	For furnishing and installing 3/4-inch to 1-inch Polyethylene Service Replacement/Installation		Ea	\$1,975.00	\$0.00
9A4	For furnishing and installing 1 1/2-inch and 2-inch Polyethylene Tubing Replacement/Installation		Ea	\$2,250.00	\$0.00
<b>Item 9B - Additional Copper and Polyethylene Tubing</b>					
9B1	For installing 3/4-inch to 1-inch Additional Copper Tubing		LF	\$15.00	\$0.00
9B2	For installing 1 1/2-inch and 2-inch Additional Copper Tubing		LF	\$25.00	\$0.00
9B3	For furnishing and installing 3/4-inch to 1-inch Additional Polyethylene Tubing		LF	\$15.00	\$0.00
9B4	For furnishing and installing 1 1/2-inch and 2-inch Additional Polyethylene Tubing		LF	\$25.00	\$0.00
<b>Item 9C - Blow-off Assemblies</b>					
9C1	For installing Permanent 2-inch Blowoff Assembly	1.00	Ea	\$500.00	\$500.00
9C2	For installing Temporary 2-inch Blowoff Assembly		Ea	\$250.00	\$0.00
9C3	For installing Permanent 4-inch Blowoff Assembly		Ea	\$1,000.00	\$0.00
9C4	For installing Temporary 4-inch Blowoff Assembly		Ea	\$750.00	\$0.00
9C5	For installing Permanent 8-inch Blowoff Assembly		Ea	\$1,500.00	\$0.00
<b>Item 10 - Casing Pipe</b>					
<b>Item 10 - Trenchless Casing Pipe Installation</b>					
10A1	For furnishing and installing 18-inch Diameter Casing Pipe for 8-inch Carrier Pipe		LF	\$400.00	\$0.00
10A2	For furnishing and installing 20-inch Diameter Casing Pipe for 10-inch Carrier Pipe		LF	\$400.00	\$0.00
10A3	For furnishing and installing 24-inch Diameter Casing Pipe for 12-inch Carrier Pipe		LF	\$460.00	\$0.00
<b>Item 10B - Open-cut Casing Pipe Installation</b>					
10B1	For furnishing and installing 18-inch Diameter Casing Pipe for 8-inch Carrier Pipe		LF	\$120.00	\$0.00
10B2	For furnishing and installing 20-inch Diameter Casing Pipe for 10-inch Carrier Pipe		LF	\$120.00	\$0.00
10B3	For furnishing and installing 24-inch Diameter Casing Pipe for 12-inch Carrier Pipe		LF	\$150.00	\$0.00
<b>Item 10C - Additional for Trenchless Casing Pipe Installation in Rock</b>					
10C1	For Trenchless Casing Pipe Installation in Rock, 16-inch to 18-inch		LF	\$330.00	\$0.00
10C2	For Trenchless Casing Pipe Installation in Rock, 20-inch to 24-inch		LF	\$360.00	\$0.00
<b>Item 11 - Horizontal Directional Drilling (HDD)</b>					
<b>Item 11A - Horizontal Directional Drilling (HDD)</b>					
11A1	Horizontal Directional Drill for installing 4-inch to 10-inch watermain		LF	\$80.00	\$0.00
11A2	Horizontal Directional Drill for installing 12-inch to 16-inch watermain		LF	\$100.00	\$0.00
<b>Item 12 - Testing and Disinfection</b>					
<b>Item 12A - Testing and Disinfection of Water main Lengths 200-feet or Less</b>					
12A1	For Testing and Disinfection of 4-inch Watermain (includes 6-inch HDPE)	60	LF	\$10.00	\$600.00
12A2	For Testing and Disinfection of 6-inch Watermain (includes 8-inch HDPE)		LF	\$10.00	\$0.00
12A3	For Testing and Disinfection of 8-inch Watermain (includes 10-inch HDPE)		LF	\$10.00	\$0.00
12A4	For Testing and Disinfection of 10-inch Watermain (includes 12-inch HDPE)		LF	\$10.00	\$0.00
12A5	For Testing and Disinfection of 12-inch Watermain (includes 16-inch HDPE)		LF	\$10.00	\$0.00
<b>Item 12B - Testing and Disinfection of Water main Lengths greater than 200-feet</b>					
12B1	For Testing and Disinfection of 8-inch Watermain (includes 10-inch HDPE)		LF	\$55.00	\$0.00
12B2	For Testing and Disinfection of 10-inch Watermain (includes 12-inch HDPE)		LF	\$5.00	\$0.00
12B5	For Testing and Disinfection of 12-inch Watermain (includes 16-inch HDPE)		LF	\$5.00	\$0.00
<b>Item 13 - Pavement, Sidewalk, Driveway, Lawn, and Landscape Restoration</b>					
<b>Item 13A - Clearing and Grubbing</b>					
13A1	For Additional Clearing and Grubbing, width greater than 15-feet		SY	\$100.00	\$0.00
<b>Item 13B - Pavement Restoration</b>					
13B1	For Asphalt Pavement Restoration	11.66	SY	\$130.00	\$1,515.80
13B2	For Concrete Pavement Restoration		SY	\$175.00	\$0.00
13B3	For Concrete with Asphalt Top Pavement Restoration		SY	\$185.00	\$0.00
13B4	For Asphalt Shoulder Restoration		SY	\$95.00	\$0.00
13B5	For Concrete Gutter Restoration		LF	\$75.00	\$0.00
13B6	For Concrete Curb Restoration		LF	\$75.00	\$0.00
13B7	For Granite Curb Restoration		LF	\$200.00	\$0.00
13B8	For Cold Milling and Asphalt Top at 1-inch to 2-inch depth		SY	\$165.00	\$0.00
13B9	For Cold Milling and Asphalt Top at each 1-inch over 2-inch depth		SY	\$75.00	\$0.00
13B10	For Cold Patch (high performance patching material) per 3-inch depth		SY	\$50.00	\$0.00
13B11	For Traffic Loop Installation		Ea	\$3,000.00	\$0.00
<b>Item 13C - Sidewalk Restoration</b>					
13C1	For Asphalt Sidewalk Restoration		SY	\$100.00	\$0.00
13C2	For Concrete Sidewalk Restoration	5.55	SY	\$150.00	\$832.50

ITEM NO.	DESCRIPTION	QTY	UM	BILLING	TOTAL
<b>Item 13D - Driveway Restoration</b>					
13D1	For Asphalt Driveway Restoration		SY	\$100.00	\$0.00
13D2	For Concrete Driveway Restoration		SY	\$170.00	\$0.00
<b>Item 13E - Asphalt Sealant</b>					
13E1	For Asphalt Sealant for driveway and sidewalks (Fixed Minimum Unit Price\$0.50 perSY)		SY	\$5.00	\$0.00
<b>Item 13F - Lawn Restoration</b>					
13F1	For Lawn Restoration	12.33	SY	\$30.00	\$369.90
<b>Item 13G - Landscaping Restoration</b>					
13G1	For Deciduous Trees, 3-feet to 4-feet (balled)		Ea	\$450.00	\$0.00
13G2	For Deciduous Trees, 1 1/2-inch to 2-inch caliper (balled)		Ea	\$450.00	\$0.00
13G3	For Deciduous Trees, 4-inch to 4 1/2 inch caliper (balled)		Ea	\$650.00	\$0.00
13G4	For Deciduous Shrubs, 3-feet to 4-feet (bare root)		Ea	\$95.00	\$0.00
13G5	For Evergreen Trees, 5-feet to 6-feet (balled)		Ea	\$250.00	\$0.00
13G6	For Evergreen Shrubs, 2 liz-feet to 4-feet (balled)		Ea	\$250.00	\$0.00
13G7	For Repairing Damaged Trees, pruning and wrapping		Ea	\$750.00	\$0.00
13G8	For Fertilizing Existing Trees		Ea	\$200.00	\$0.00
<b>Item 14 - Crew Rate and Construction Allowance</b>					
<b>Item 14A - Crew Labor and Equipment</b>					
14A1	For Crew Labor and Equipment (Fixed Minimum Unit Price of \$100.00 per hour)		Hrs	\$445.00	\$0.00
14A2	For Survey Crew Labor and Equipment (Unit Price shall not be less than prevailing wage)		Hrs	\$200.00	\$0.00
14A3	For Vacuum Truck and Crew Labor (Fixed Minimum Unit Price of \$125.00 per hour)		Hrs	\$450.00	\$0.00
<b>Item 14B - Construction Allowance</b>					
14B1	For General Construction Allowance		LS	\$150,000.00	\$0.00
14B2	For Maintenance and Protection of Traffic (State and County Roads)		LS	\$50,000.00	\$0.00
<p>Location: Lafayette &amp; King</p> <hr/> <p>Install:</p> <p>Work Order:</p> <p>Proj No:</p> <p>OWIP/EC#:</p>					
				<b>INVOICE AMOUNT</b>	<b>\$17,918.45</b>
				Less Retention 5%	\$895.92
				<b>INVOICE TOTAL</b>	<b>\$17,022.53</b>

## PMJ ITEMS

1A1 (4" PIPE)  
60 TOTAL.

3A (4" INLINE CONNECT)  
1 TOTAL.

3B1 (6" x 4" TRAP)  
1 TOTAL

5A D.I. FITTINGS  
2 - 45°

6 POLY WRAP  
60'

8 SELECT FILL (ROAD)  
35' x 3' x 5'  
= 525/27  
= 19.44 cy

BLOWOFF  
6 x 4 x 4.5'  
= 84/27  
= 3.11 cy.

9. BLOW-OFF ASSEMBLY  
1 EA.

12A1 TESTING / CHLORINATION.  
@ 60'

13. RESTORATION.

F1 LAWN (15') x 5' w = 8.33 sy.

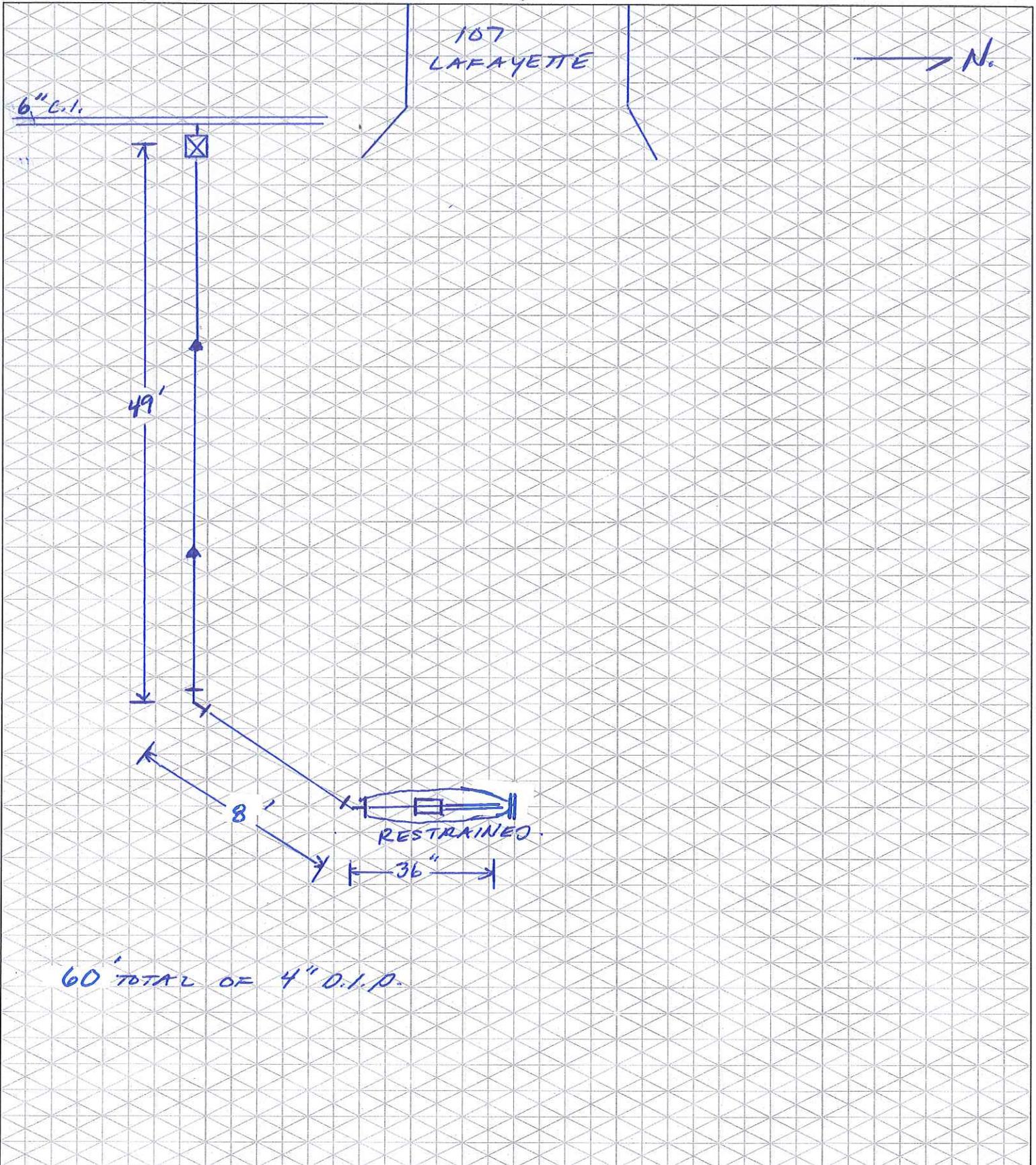
B1 PAVEMENT 30' x 3.5' = 105/9 = 11.66 sy

TAP: 6 x 6 = 36/9 = 4 sy

C2. CONCRETE: 10 x 5 = 50/9 = 5.55 sy

19 Ransier Drive  
West Seneca, New York 14224  
PHONE: (716) 675-7245 • FAX: (716) 675-4957  
www.KandeyCompany.com

JOB NAME LAFAYETTE / KING  
JOB/EST. # \_\_\_\_\_ DATE 7/15/21  
LOCATION \_\_\_\_\_  
DRAWN BY BLAHOWILZ SCALE N/A  
SYSTEM \_\_\_\_\_ SKETCH NO. \_\_\_\_\_



2" BUDDOFF  
30 LAFFAYETTE





ERIE COUNTY  
WATER AUTHORITY  
BUFFALO, NEW YORK

REVISED DR. R.D.C.  
DATE: 5/5/2021  
FIELD

REVISED DR.  
DATE:  
OFFICE

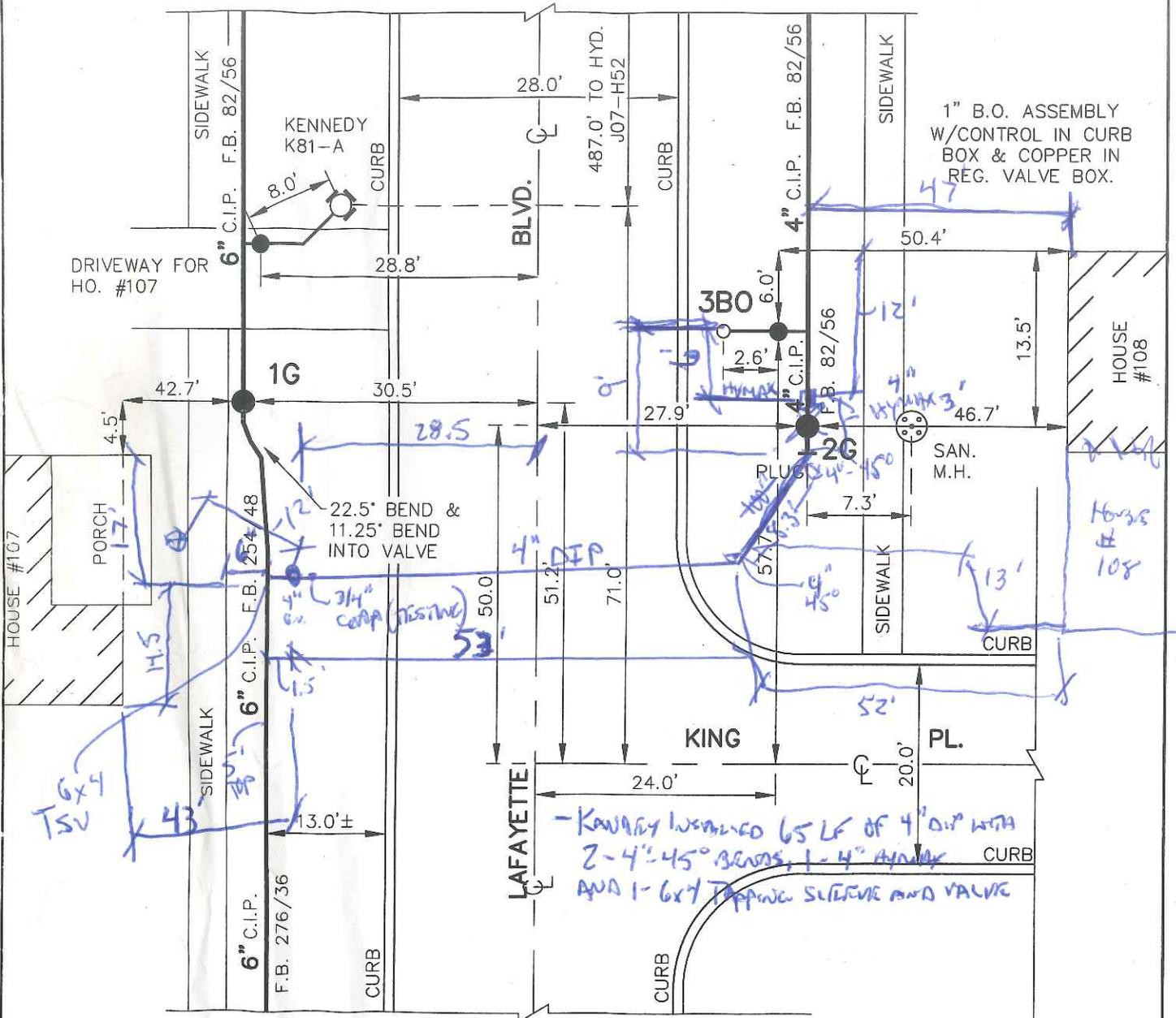
TOWN OF AHMERST  
E.C.W.A.

JO7-H60  
DETAIL SHT. NO.  
199000152  
CURRENT PROJECT NO.

NOTE: HYDRANT REPLACED UNDER  
AMTN-486-9001-PA ON  
4/5/1990. 45° BEND & 4'  
OF P.V.C. USED TO  
RELOCATED HYD. AWAY  
FROM DRIVEWAY.

1G TO 2G = 58.4'  
1G TO 3BO = 55.0'  
1G TO HYD. = 21.7'  
2G TO 3BO = 8.5'  
2G TO HYD. = 53.2'  
3BO TO HYD. = 47.1'

TRENCH - 3'x4.5'  
SELECT 36"  
2-2x4.5x36 = 405/27 = 15cy  
SELECT  
180 PSI FOR 2 HOURS - NO DROP  
55 LF OF 4" DIP



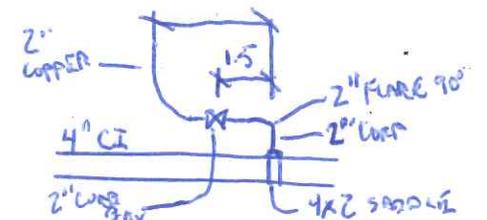
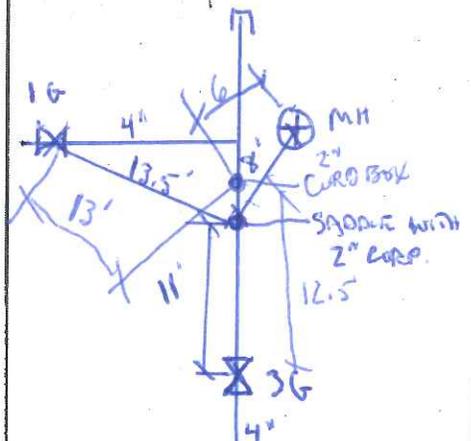
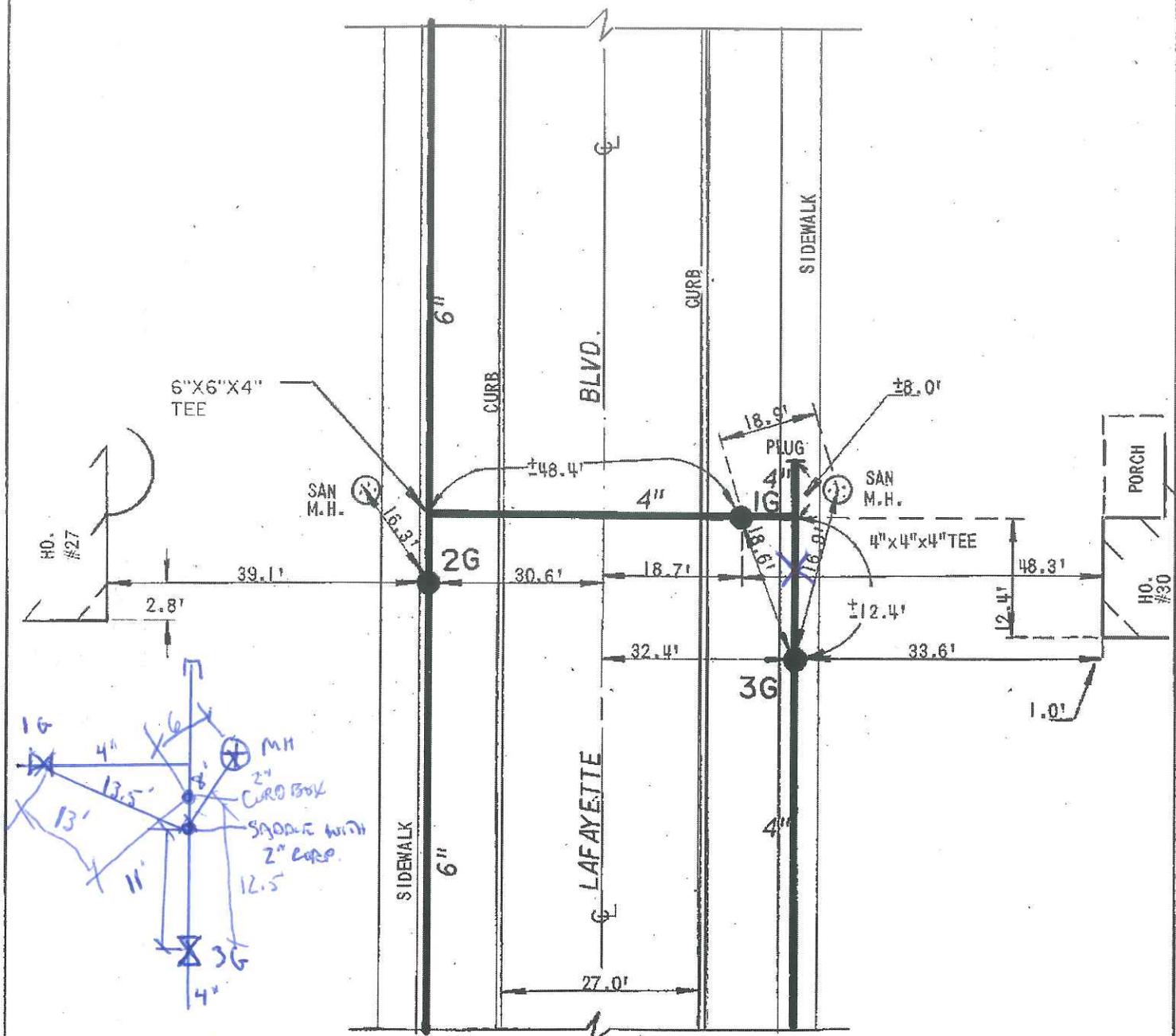
\* NOTE \*: REMOVED EXISTING 4" G.V., 2G AND  
INSTALLED 4" Hymax  
- EXIST VALVE HAD  
LEAD JOINTS.

NOTE: DETAIL DRAWN ON CAD SYSTEM.  
± DIMENSIONS FROM INSP. FIELD  
BOOK, NOT FIELD CHECKED.

AMTN-486-9001-PA  
W.O. #8650573  
F.B. 276/36  
F.B. 254/48  
F.B. 82/56  
PL. 281

JO7-H60  
DETAIL SHT. NO.

MASTER COPY



PL-281

**EC** **ERIE COUNTY**  
**WA** **WATER AUTHORITY**  
BUFFALO, NEW YORK

REVISED  
DR. BY: J.M.S.  
DATE: 8-14-92.  
SCALE: NONE

TOWN OF AMHERST  
E.C.W.A.

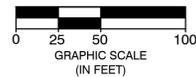
DETAIL SHEET NO.  
J07-H44





**LAFAYETTE PLAN**

SCALE: 1" = 50'-0"



**A. SEQUENCE OF OPERATIONS**

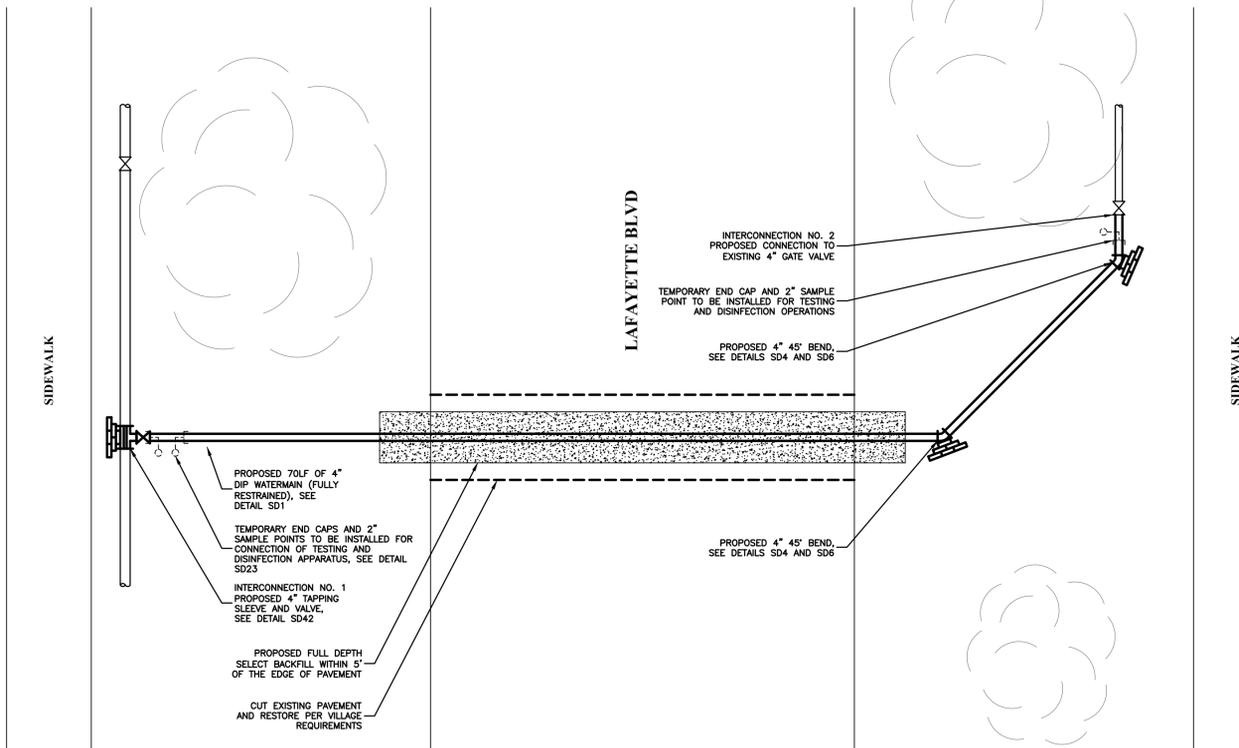
- PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY ALL UTILITIES, PROPER AUTHORITIES, AND SECURE ALL REQUIRED PERMITS NOT PROVIDED BY ECWA. THE OUTLINED SEQUENCE OF OPERATIONS SHALL BE FOLLOWED DURING CONSTRUCTION OF THIS PROJECT AND ANY CHANGES TO THIS SEQUENCE MUST BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
- THE CONTRACTOR SHALL COMPLETE ALL OPERATIONS REQUIRED TO INSTALL ALL WATERMANS, FITTINGS, PERMANENT BLOW-OFF ASSEMBLY, AND TAPPING SLEEVE AND VALVE. TEMPORARY END CAPS AND BLOW-OFF ASSEMBLIES SHALL BE INSTALLED AT ON THE WATERMAIN PRIOR TO INTERCONNECTION NO. 1 AND INTERCONNECTION NO. 2 FOR TESTING AND FLUSHING. EXISTING MAINS ALONG LAFAYETTE SHALL REMAIN IN SERVICE.
- UTILIZING THE TAPPING SLEEVE AND VALVE, THE CONTRACTOR SHALL FLUSH, TEST, AND DISINFECT THE PROPOSED WATERMAIN UNDER ITEMS B AND C.
- UPON SUCCESSFUL TESTING AND APPROVALS FROM GOVERNING AGENCIES, THE CONTRACTOR SHALL COMPLETE INTERCONNECTION NO. 1 AND NO. 2.
- UPON COMPLETION OF INTERCONNECTION NO. 1 AND INTERCONNECTION NO. 2, THE CONTRACTOR SHALL HAVE ECWA CLOSE THE 4" GATE VALVE ON THE EAST SIDE OF LAFAYETTE BETWEEN 30 AND 34 LAFAYETTE. THIS MAIN SHALL BE FLUSHED FOR A DURATION OF 15 MINUTES OR LONGER IF DETERMINED BY THE ENGINEER.

**B. WATERMAIN FLUSHING PROCEDURES**

- INSTALL PROPOSED TESTING AND DISINFECTION APPARATUS PER STANDARD DETAIL SD23 BETWEEN THE TAPPING SLEEVE AND VALVE OF INTERCONNECTION NO. 1 AND THE PROPOSED WATERMAIN.
- OPEN TEMPORARY BLOW-OFF INSTALLED PRIOR TO INTERCONNECTION NO. 2.
- OPEN THE TAPPING SLEEVE AND VALVE TO PROVIDE WATER FOR REQUIRED FLUSHING. A MINIMUM FLUSHING VELOCITY OF 3.0 FPS (120 GPM FOR 4" MAIN) IS REQUIRED AND MUST BE ACHIEVED PER THE CONTRACT DOCUMENTS.
- UPON COMPLETION OF FLUSHING, CLOSE THE TAPPING SLEEVE AND VALVE AND TEMPORARY BLOW-OFF.

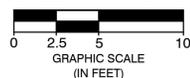
**C. TESTING AND DISINFECTION PROCEDURES**

- FOLLOWING COMPLETION OF THE FLUSHING OPERATIONS OUTLINED UNDER ITEM B, THE WATERMAIN SHALL BE PRESSURE TESTED AT THE PRESSURES SHOWN ON DETAIL SD31 AND IN ACCORDANCE WITH THE CONTRACT SPECIFICATIONS. PRESSURE TEST AND LEAK TEST WILL BE PERFORMED CONCURRENTLY, THE PRESSURE TEST WILL BE CONDUCTED FOR A PERIOD OF 2 HOURS ON EACH TESTED SECTION.
- WATER USED FOR PRESSURE TESTING AND DISINFECTION WILL BE OBTAINED THROUGH THE PRESSURE TESTING AND DISINFECTION APPARATUS PREVIOUSLY INSTALLED UNDER ITEM B.1.
- FOLLOWING THE COMPLETION OF THE PRESSURE TESTING, THE WATERMAIN SHALL BE DISINFECTED IN ACCORDANCE WITH THE CONTRACT SPECIFICATIONS AND AS OUTLINE HEREIN.
- SAMPLE POINTS SHALL BE INSTALLED AT THE LOCATIONS SHOWN ON THE CONTRACT DRAWINGS AND SHALL BE USED FOR TAKING CHLORINE LEVEL READINGS AND FOR FINAL WATER SAMPLING.
- CHLORINE USED FOR THE DISINFECTION PROCEDURES SHALL BE LIQUID CHLORINE MIXED IN A TANK AND INTRODUCED INTO THE MAIN IN ACCORDANCE WITH THE PRESSURE TESTING AND DISINFECTION APPARATUS STANDARD DETAIL SD23.
- THE WATERMAIN SHALL BE DISINFECTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT SPECIFICATIONS. UPON COMPLETION OF THE DISINFECTION OPERATION, THE WATERMAIN SHALL BE FLUSHED UNTIL SUCH TIME AS THE CHLORINE RESIDUAL IS BETWEEN 0.5 AND 1.2 MG/L. THE CONTENTS OF THE WATERMAIN SHALL BE EMPTIED INTO A TANK AND NEUTRALIZED IN ACCORDANCE WITH AWWA C-651 SPECIFICATIONS.
- BACTERIOLOGICAL TESTING SAMPLES SHALL BE TAKEN AT INTERVALS OUTLINED IN THE SPECIFICATIONS AND TESTED BY AN APPROVED LABORATORY. UPON COMPLETION OF THE TESTING AND DISINFECTION PROCEDURES AND FINAL APPROVAL OF THE RESULTS HAVE BEEN OBTAINED, REMOVE THE PRESSURE TESTING AND DISINFECTION APPARATUS AND COMPLETE ALL INTERCONNECTIONS.



**INTERCONNECTION NO. 1 AND 2**

SCALE: 1" = 5'-0"



**PROJECT ESTIMATE: \$20,845.00**

ITEM 1 - WATERMAIN	
ITEM 1A1 - 70 LF @ \$80.00 / LF = \$5,600	
ITEM 3 - EXISTING WATERMAIN CONNECTIONS (INTERCONNECTIONS)	
ITEM 3A1 - 1 @ \$2,500 EA = \$2,500.00	
ITEM 3B1 - 1 @ \$3,000 EA = \$3,000.00	
ITEM 5A - DUCTILE IRON (DI) FITTINGS	
ITEM 5A1 - 2 @ \$250 EA = \$500.00	
(2- 45" BENDS)	
ITEM 6 - POLYETHYLENE ENCASUREMENT	
ITEM 6A1 - 70 LF @ \$1.00 / LF = \$70.00	
ITEM 7 - ROCK EXCAVATION, TEST PIT EXCAVATION/BACKFILL, AND EXTRA EXCAVATION/BACKFILL	
ITEM 7A1 - 5 CY @ \$300.00 / CY = \$1,500.00	
ITEM 8 - SELECT BACKFILL	
ITEM 8A1 - 25 CY @ \$55.00 / CY = \$1,375.00	
ITEM 9 - WATER SERVICE CONNECTIONS AND BLOW-OFFS	
ITEM 9C1 - 1 @ \$500.00 EA = \$500.00	
ITEM 12 - TESTING AND DISINFECTION	
ITEM 12A1 - 70 LF @ \$10.00 / LF = \$700.00	
ITEM 13 - PAVEMENT, SIDEWALK, DRIVEWAY, LAWN, AND LANDSCAPE RESTORATION	
ITEM 13B1 - 15 SY @ \$130.00 / SY = \$1,950.00	
ITEM 13B6 - 10 LF @ \$75.00 / LF = \$750.00	
ITEM 13C2 - 10 SY @ \$150.00 / SY = \$1,500.00	
ITEM 13F1 - 30 SY @ \$30.00 / SY = \$900.00	

**General Notes**

- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ERIE COUNTY WATER AUTHORITY STANDARD DETAILS AND SPECIFICATIONS, ECWA PN: 202100009
- WATERMANS SHALL BE PRESSURE TESTED IN ACCORDANCE WITH AWWA C600
- WATERMANS SHALL BE TESTED AND DISINFECTED IN ACCORDANCE WITH AWWA STANDARD C651, HOWEVER THE TABLET METHOD IS NOT ALLOWED
- TWO SETS OF WATER BACTERIOLOGICAL SAMPLES SHALL BE TAKEN AT LEAST 24 HOURS APART
- SEE STANDARD DETAIL GENERAL NOTES SECTION ON MISCELLANEOUS DETAILS
- CONTRACTOR TO PROVIDE MAINTENANCE AND PROTECTION OF TRAFFIC THROUGHOUT CONSTRUCTION
- SERVICE LOCATIONS ARE APPROXIMATIONS ONLY AND SHOULD BE FIELD CHECKED PRIOR TO CONSTRUCTION

**Legend**

- ⊙ = SANITARY MH
- ⊕ = TRAFFIC MH
- ⊗ = STORM MH
- ⊞ = CATCH BASIN
- ⊙ = UTILITY POLE
- ⊙ = FIRE HYDRANT
- ⊙ = WATER VALVE
- ⊙ = TREES
- w — = EXISTING WATERLINE
- W — = NEW WATERLINE
- S — = SANITARY SEWER
- ST — = STORM SEWER
- G — = GAS MAIN

Approved By:

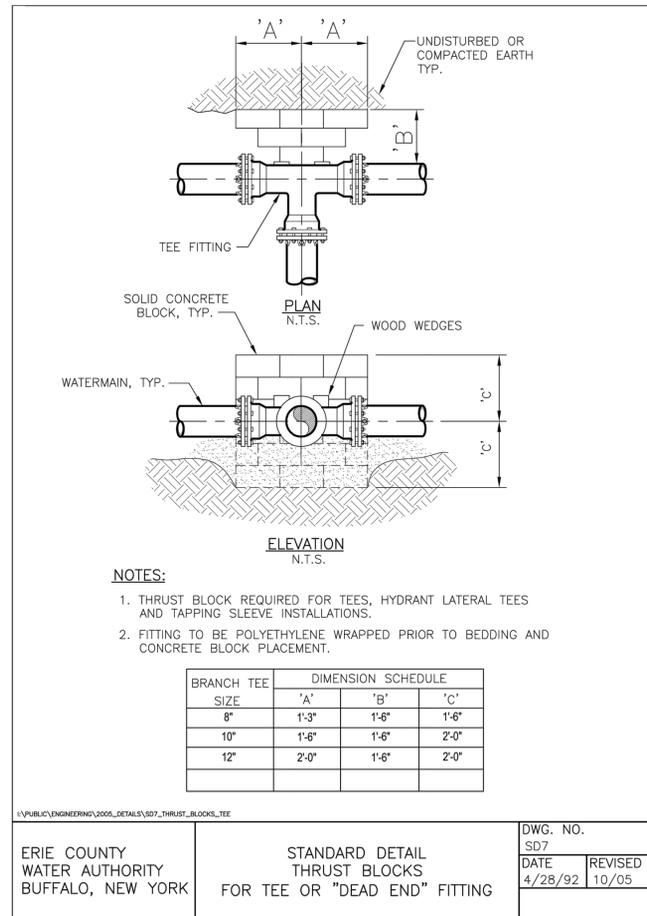
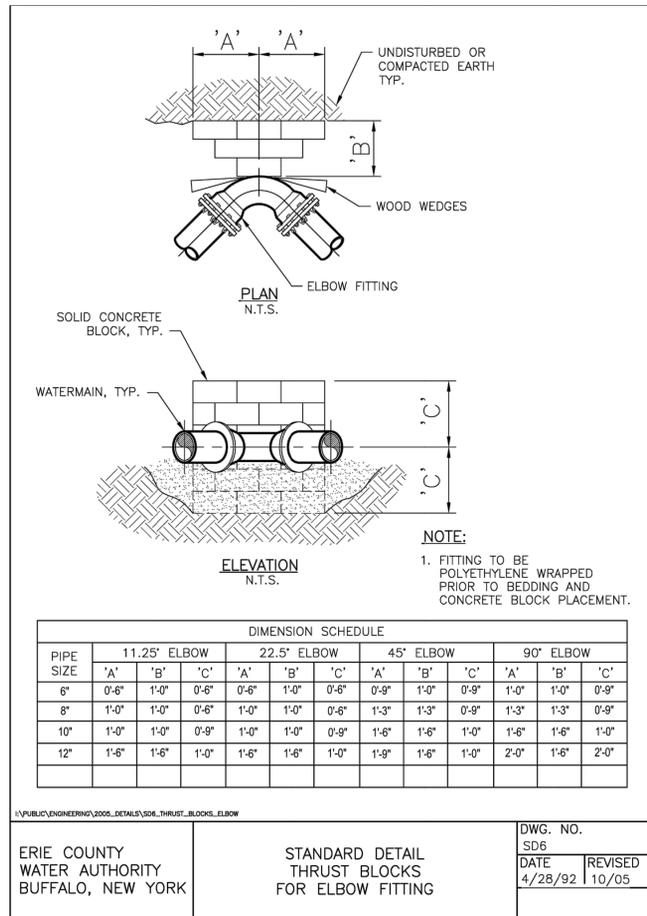
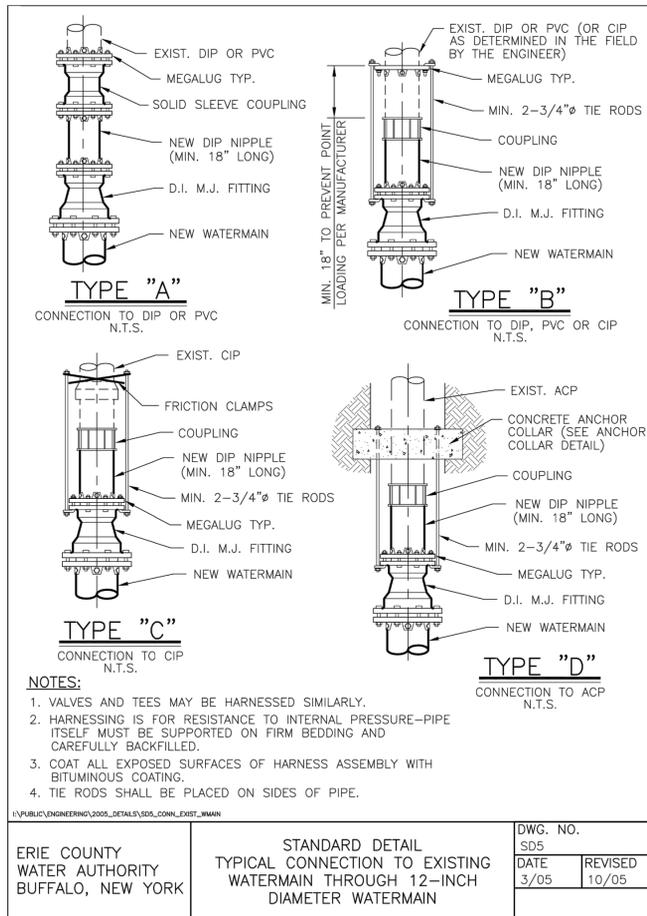
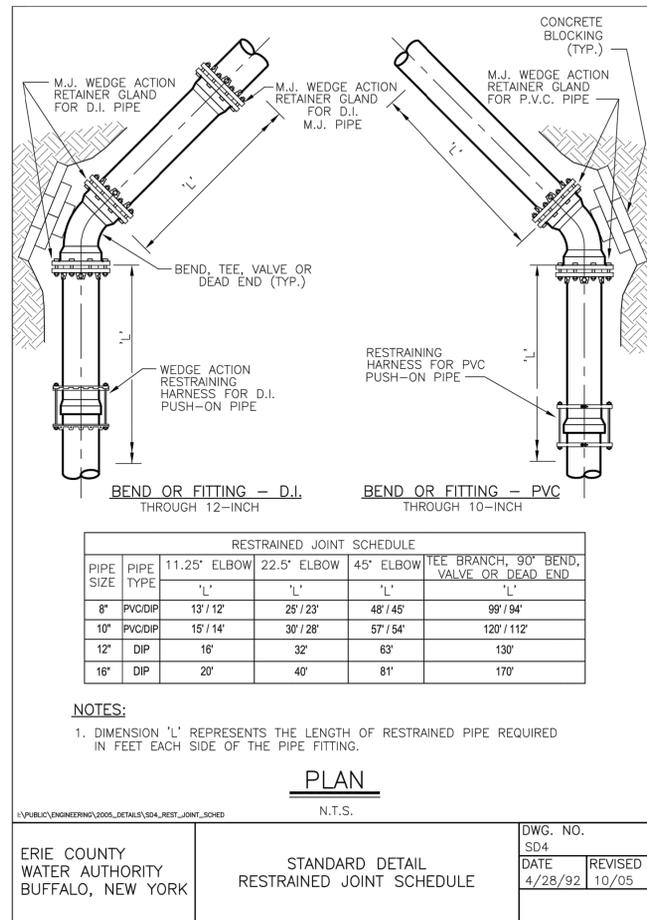
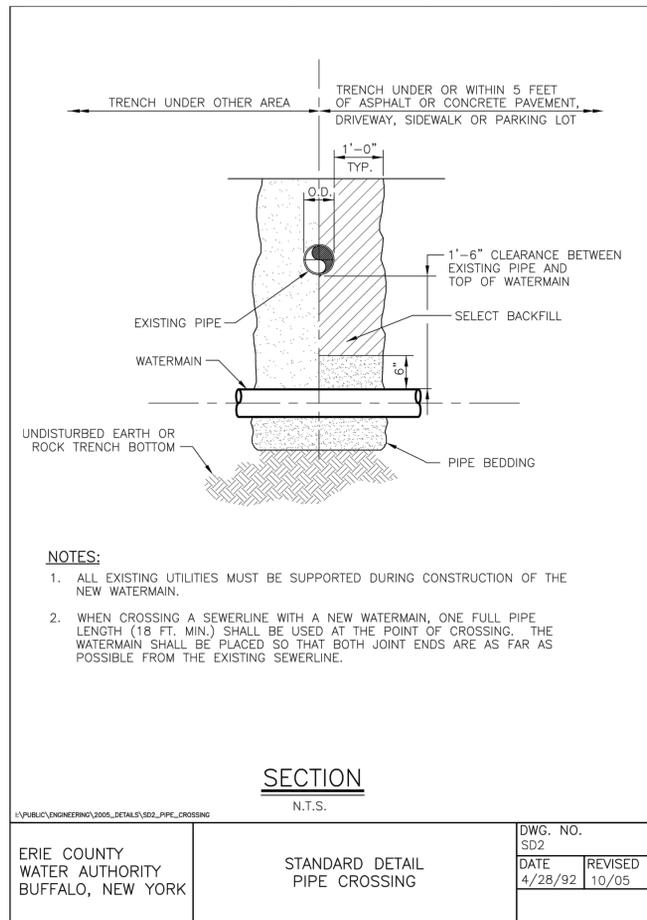
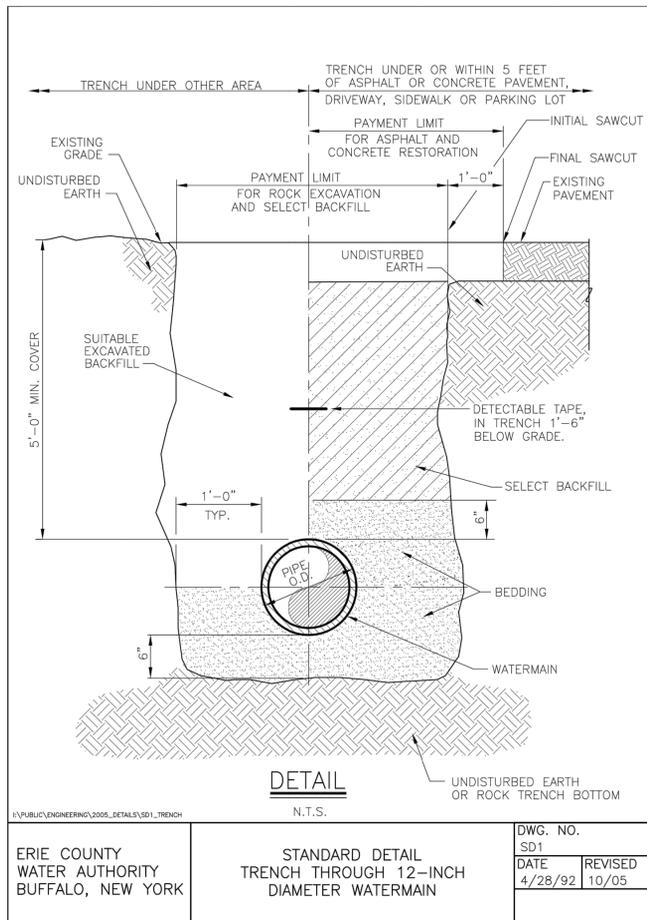


Project Name

**LAFAYETTE BLVD AND KING PL WATER SYSTEM IMPROVEMENTS**  
TOWN OF AMHERST  
ERIE COUNTY - NEW YORK

LAFAYETTE BLVD PLAN		Sheet
Name	PLAN	<b>W-1</b>
Date	MAY 2021	
Scale:	AS SHOWN	
Drawn/Revised By:	WWW	Page: 1 of 5
		File Name: 202100138 - LAFAYETTE DESIGN

ALL UTILITIES ARE BASED ON BEST GIVEN INFORMATION AND ARE APPROXIMATE ONLY. SOME UTILITIES MAY NOT BE SHOWN. CONTRACTOR SHALL FIELD VERIFY ALL UTILITIES DURING EXCAVATION BY CONTACTING UFPO PRIOR TO PERFORMING ANY EARTHWORK.



General Notes

Legend

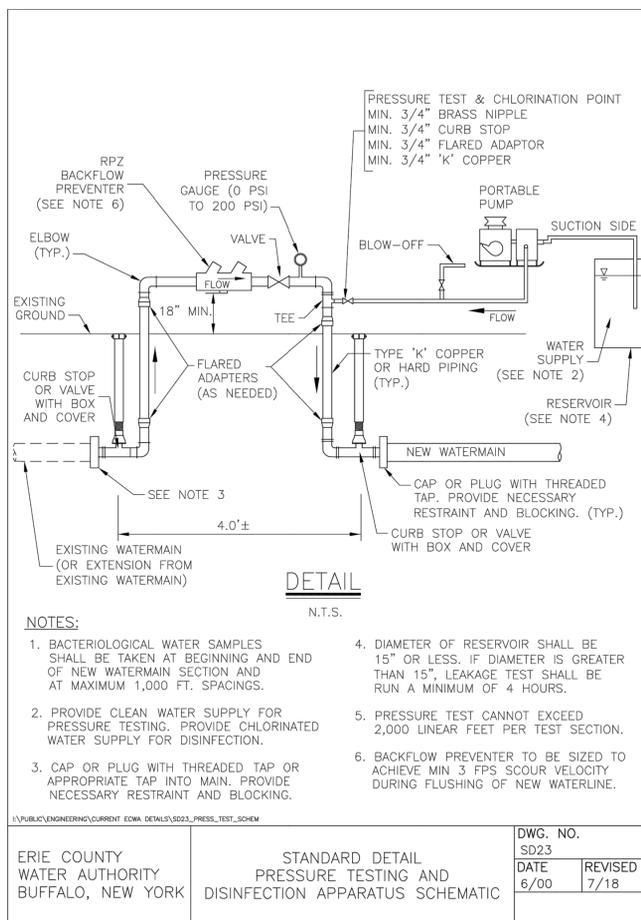
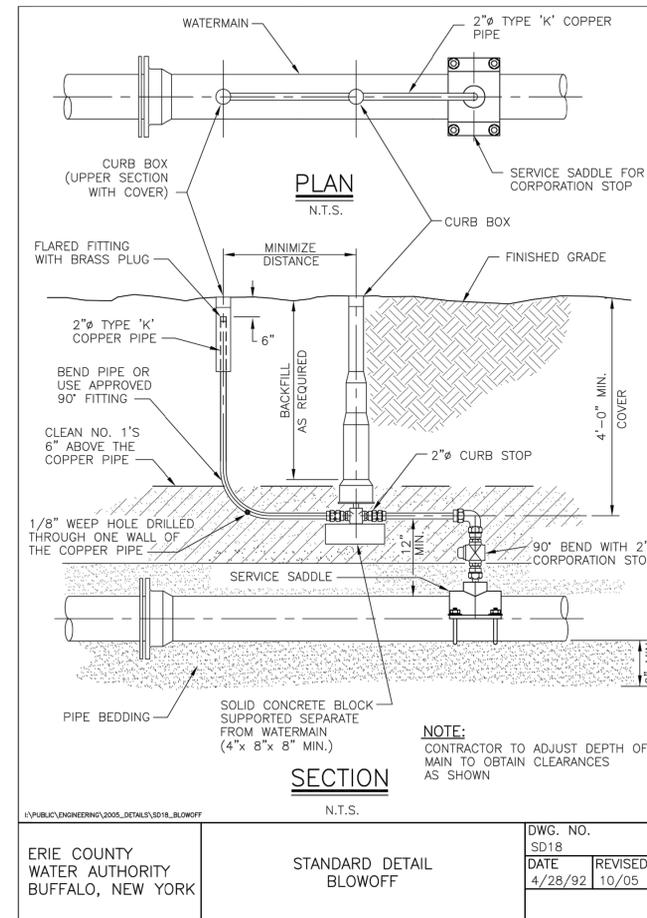
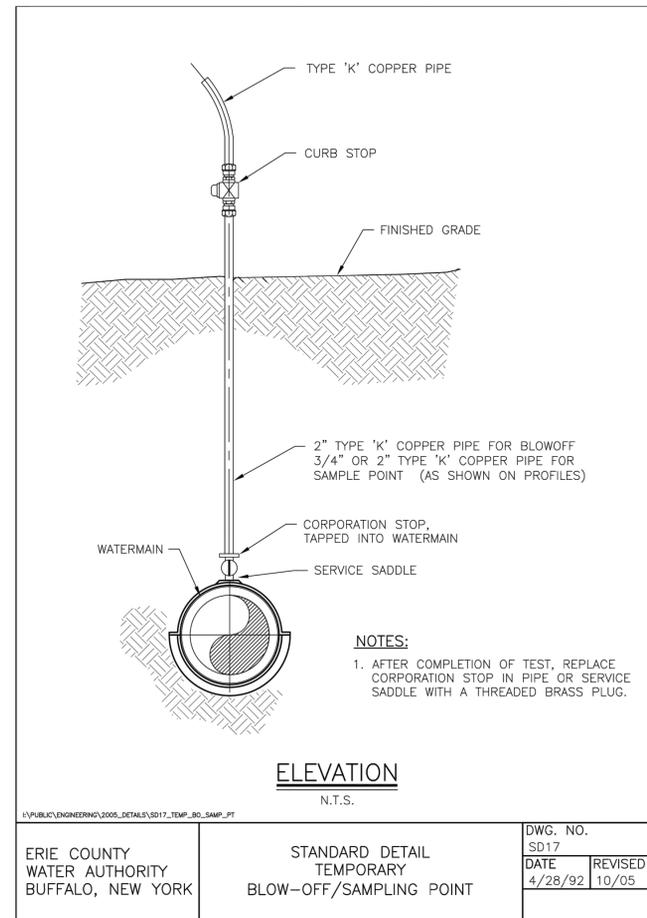
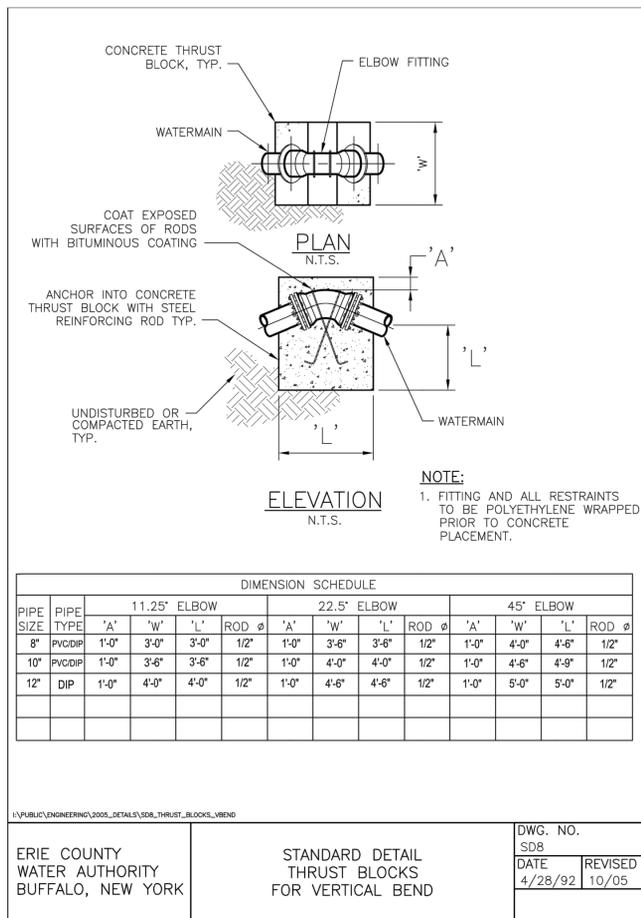
Approved By:

ERIE COUNTY WATER AUTHORITY  
3030 UNION RD.  
CHEEKTOWAGA NY, 14227

Project Name  
LAFAYETTE BLVD AND KING PL  
WATER SYSTEM IMPROVEMENTS  
TOWN OF AMHERST  
ERIE COUNTY - NEW YORK

MISCELLANEOUS DETAILS	Sheet
Name	W-2
Date	MAY 2021
Scale:	AS SHOWN
Drawn/Revised By:	File Name: 202100138 - LAFAYETTE DESIGN

Page: 2 of 5



**NOTES**

- All elevations refer to USGS NAVD83 datum.
- The CONTRACTOR shall obtain necessary permits and furnish copies to the ENGINEER prior to commencing work.
- The CONTRACTOR'S work area shall be confined to the limits of the right-of-ways and easements. The CONTRACTOR shall obtain any additional easements or work releases should the CONTRACTOR require additional area to accommodate his operations.
- The CONTRACTOR shall provide maintenance and protection of traffic in accordance with the Erie County Highway Department standards and the NYS DOT Manual of Uniform Traffic Control Devices.
- The locations and depths of existing underground utilities as shown on the plans and profiles are approximate. Other underground utilities not shown may be encountered. The CONTRACTOR shall perform test pits to verify the location and elevation of utilities at interconnections and crossings as shown, directed, or required. The CONTRACTOR shall excavate in advance of the pipe laying operation and expose all existing underground utilities to prevent damage during construction and to determine required changes in grade necessary to install the watermain to avoid conflicts.
- The CONTRACTOR shall install those measures required to limit erosion of areas disturbed by the work. Clearing shall be performed on an as-needed basis, phased to reduce erosion and visual impact.
- Blasting will not be permitted.
- No more than one connection may be made to any existing watermain prior to testing, disinfection, and approval of the Waterline Installation Completed Works Approval Report(s) by the Erie County Water Authority and the Erie County Health Department.
- The Erie County Water Authority shall only operate existing valves and fire hydrants, including newly installed valves and fire hydrants that have been placed into service. The CONTRACTOR is advised that watertight conditions may not exist when existing valves are closed.
- The CONTRACTOR shall have all equipment, manpower, and materials required on site and ready for use prior to commencing any shut-down or removing any existing facilities from service. The CONTRACTOR shall notify all affected customers in writing of any shut-down at least 48 hours in advance. The CONTRACTOR shall notify the appropriate fire stations 48 hours in advance prior to taking any fire hydrants out of service. Any fire hydrants not in service shall be bagged in burlap or plastic. Any shut-down shall be limited to 4 consecutive hours. It may be necessary to schedule shut-downs at night, weekends, or other off hours so as to not affect schools, businesses or other customers, as determined by the ENGINEER. Shut-down requests shall be submitted to the Erie County Water Authority a minimum of 5 business days in advance of the requested shut-down date.

- All watermain piping shall be installed with a minimum of 5'-0" of cover.
- All watermain piping shall be installed with a minimum of 1'-6" of vertical clearance and 10'-0" of horizontal clearance from sanitary and storm piping, measured from the outside of the pipes at the point of crossing.
- If the material at the design grade is unsuitable as determined by the ENGINEER, the CONTRACTOR, when ordered in writing, shall excavate additional material to the depth necessary and shall backfill to the proposed grade with the select granular material.
- The installation of 90 degree bends in the watermain is not allowed, unless approved by the Erie County Water Authority.
- Thrust restraint for watermain piping through 12-inch diameter shall consist of thrust blocks and pipe joint restraint.
- The CONTRACTOR shall notify the owner of any utility pole in advance of any excavation work that will take place within 5'-0" of the utility pole. The CONTRACTOR shall include the cost of temporary pole support in the appropriate bid item. Where utility poles are required to be supported during construction, the CONTRACTOR shall make all necessary arrangements with the utility company.
- If materials are encountered during the construction that are suspected of being contaminated, the CONTRACTOR shall immediately notify the NYSDEC for direction regarding testing, separation, containment, and disposal procedures.
- Existing fire hydrants removed during construction and not reinstalled as part of the work shall be scheduled and returned to the Erie County Water Authority Service Center, 3030 Union Road, Cheektowaga, New York 14227.
- The CONTRACTOR shall cold patch all trench excavations in traveled areas including roads, driveways, sidewalks, and parking areas.
- The CONTRACTOR shall not restrict access for school buses or any emergency vehicles.
- The use of existing fire hydrants for any reason is prohibited without prior approval of the Erie County Water Authority. This includes newly installed fire hydrants that have been placed into service.
- The CONTRACTOR shall submit procedures for testing and disinfection of the watermain to the ENGINEER for review prior to the start of testing.
- The CONTRACTOR shall be present and assist in the Final Walk inspection. The CONTRACTOR shall provide sufficient personnel and equipment to demonstrate to the ENGINEER that all valves, fire hydrants, and curb stops operate as required.

**General Notes**

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**Legend**

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Approved By:

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ERIE COUNTY WATER AUTHORITY  
3030 UNION RD.  
CHEEKTOWAGA NY, 14227

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Project Name  
**LAFAYETTE BLVD AND KING PL  
WATER SYSTEM IMPROVEMENTS**  
TOWN OF AMHERST  
ERIE COUNTY - NEW YORK

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MISCELLANEOUS DETAILS		Sheet
Name	W-3	
Date	MAY 2021	
Scale:	AS SHOWN	
Drawn/Revised By:	WWW	File Name: 202100138 - LAFAYETTE DESIGN

Page: 3 of 5

General Notes

Legend

Approved By:



Project Name  
LAFAYETTE BLVD AND KING PL  
WATER SYSTEM IMPROVEMENTS  
TOWN OF AMHERST  
ERIE COUNTY - NEW YORK

MISCELLANEOUS DETAILS	Sheet
Date MAY 2021	<b>W-4</b>
Scale: AS SHOWN	
Drawn/Revised By: WWW	Page: 4 of 5 File Name: 202100138 - LAFAYETTE DESIGN

PIPE DIAMETER (in)	PIPE MATERIAL		WORKING PRESSURE (psi)	TEST PRESSURE (psi)
	Type	Rating		
4" AND 6"	DIP	CLASS 52	50	170

I:\PUBLIC\ENGINEERING\2005\_DETAILS\SD31\_PRESS\_TEST\_SCH.DWG

ERIE COUNTY WATER AUTHORITY BUFFALO, NEW YORK	PRESSURE TESTING SCHEDULE	DWG. NO. SD31
		DATE 10/05

**STEP 1.** CUT A SECTION OF POLYETHYLENE TUBE APPROXIMATELY 2 FEET LONGER THAN THE PIPE SECTION. REMOVE ALL LUMPS OF CLAY, MUD, CINDERS, OR OTHER MATERIALS THAT MIGHT HAVE ACCUMULATED ON THE PIPE SURFACE DURING STORAGE. SLIP THE POLYETHYLENE TUBE ACCORDION FASHION ON THE END OF THE PIPE. PULL BACK THE OVERHANGING END OF THE TUBE UNTIL IT CLEARS THE PIPE END.

**STEP 2.** DIG A SHALLOW BELL HOLE IN THE TRENCH BOTTOM AT THE JOINT LOCATION TO FACILITATE INSTALLATION OF THE POLYETHYLENE TUBE. LOWER THE PIPE INTO THE TRENCH AND MAKE UP THE PIPE JOINT WITH THE PRECEEDING SECTION OF PIPE.

**STEP 3.** MOVE THE CABLE TO THE BELL END OF THE PIPE AND LIFT THE PIPE SLIGHTLY TO PROVIDE ENOUGH CLEARANCE TO EASILY SLIDE THE TUBE. SPREAD THE TUBE OVER THE ENTIRE BARREL OF THE PIPE. NOTE: MAKE SURE THAT NO DIRT OR OTHER BEDDING MATERIAL BECOMES TRAPPED BETWEEN THE WRAP AND THE PIPE.

**STEP 4.** MAKE THE OVERLAP OF POLYETHYLENE TUBE BY PULLING BACK THE BUNCHED POLYETHYLENE FROM THE PRECEDING LENGTH OF PIPE AND SECURING IT IN PLACE. NOTE: THE POLYETHYLENE MAY BE SECURED IN PLACE BY USING TAPE OR PLASTIC TIE STRAPS.

**STEP 5.** OVERLAP THE SECURED TUBE END WITH THE END OF THE NEW PIPE SECTION. SECURE THE NEW TUBE END IN PLACE.

**STEP 6.** TAKE UP THE SLACK IN THE TUBE ALONG THE BARREL OF THE PIPE TO MAKE A SNUG, BUT NOT TIGHT, FIT. FOLD EXCESS POLYETHYLENE BACK OVER THE TOP OF THE PIPE.

**STEP 7.** SECURE THE FOLD AT SEVERAL LOCATIONS ALONG THE PIPE BARREL (APPROXIMATELY EVERY 3 FEET, MAXIMUM OF 5 FEET).

**STEP 8.** REPAIR ALL THE SMALL RIPS, TEARS, OR OTHER TUBE DAMAGE WITH ADHESIVE TAPE. IF THE POLYETHYLENE IS BADLY DAMAGED, REPAIR THE DAMAGED AREA WITH A SHEET OF POLYETHYLENE AND SEAL THE EDGES OF THE REPAIR WITH ADHESIVE TAPE.

**STEP 9.** CAREFULLY BACKFILL THE TRENCH ACCORDING TO THE PROCEDURES IN AWWA C600 STANDARD. TO PREVENT DAMAGE DURING BACKFILLING ALLOW ADEQUATE SLACK IN THE TUBE AT THE JOINT. BACKFILL SHOULD BE FREE OF CINDERS, ROCKS, BOULDERS, NAILS, STICKS, OR OTHER MATERIALS THAT MIGHT DAMAGE THE POLYETHYLENE. AVOID DAMAGING THE POLYETHYLENE WHEN USING TAMPING DEVICES.

I:\PUBLIC\ENGINEERING\CURRENT ECWA DETAILS\SD32\_POLY\_WRAP.DWG

ERIE COUNTY WATER AUTHORITY BUFFALO, NEW YORK	STANDARD DETAIL POLYETHYLENE ENCASEMENT OF DUCTILE IRON PIPE	DWG. NO. SD32
		DATE 06/16

PIPE SIZE (IN)	REQUIRED FLOW (GPM)	METHOD 1 HYDRANT FLOW		METHOD 2 END CAP FLOW	
		2 1/2" NOZZLE PRESSURE (PSI)	4" NOZZLE PRESSURE (PSI)	2" I.D. PRESSURE (PSI)	3" I.D. PRESSURE (PSI)
6	275	7	1	7	2
8	500	9	2	22	5
10	750	20	4	50	10
12	1100	44	7	-	22
16	1900	-	20	-	62
20	3000	-	50	-	-

I.D. = INNER DIAMETER

**NOTES:**

- TO OBTAIN SCOUR VELOCITY (3.0 FPS) IN THE WATERLINE, CONTRACTOR SHALL ACHIEVE FLOWRATE AT NOZZLE DEFINED IN TABLE. PRESSURE GAUGE USED SHALL SHOW A HIGHER PRESSURE THAN THE MINIMUMS DEFINED IN THE TABLE.
- OUTLET PRESSURE MEASURED BY PITOT GAUGE.
- ENGINEER SHALL PROVIDE CALCULATIONS IF CONNECTIONS ARE OTHER THAN THOSE SHOWN, IF MULTIPLE CONNECTIONS ARE USED, OR AS REQUESTED BY ECWA.
- TO FLUSH THREE PIPE VOLUMES, MINIMUM FLUSHING TIME (IN SECONDS) EQUALS THE LENGTH OF PIPE BEING FLUSHED, IN FEET.

I:\PUBLIC\ENGINEERING\CURRENT ECWA DETAILS\SD38\_WATERLINE\_FLUSHING.DWG

ERIE COUNTY WATER AUTHORITY BUFFALO, NEW YORK	STANDARD DETAIL WATERLINE FLUSHING	DWG. NO. SD38
		DATE 6/16

**STEP 1.** WRAP TWO OR THREE LAYERS OF TAPE COMPLETELY AROUND THE PIPE WHERE THE TAPPING MACHINE WILL BE PLACED.

**STEP 2.** MOUNT THE TAPPING MACHINE ON THE TAPPED AREA AND MAKE THE TAP DIRECTLY THROUGH THE TAPE AND POLYWRAP. INSTALL CORPORATION STOP.

**STEP 3.** INSPECT THE ENTIRE AREA FOR DAMAGE AND REPAIR IF NECESSARY.

**STEP 4.** WRAP ANY CONNECTED COPPER SERVICE LINE WITHIN THREE FEET OF THE PIPE WITH POLYETHYLENE AND SECURE WITH TAPE.

**STEP 5.** CAREFULLY BACKFILL THE TRENCH ACCORDING TO THE PROCEDURES IN AWWA C600 STANDARD. TO PREVENT DAMAGE DURING BACKFILLING ALLOW ADEQUATE SLACK IN THE TUBE AT THE JOINT. BACKFILL SHOULD BE FREE OF CINDERS, ROCKS, BOULDERS, NAILS, STICKS, OR OTHER MATERIALS THAT MIGHT DAMAGE THE POLYETHYLENE. AVOID DAMAGING THE POLYETHYLENE WHEN USING TAMPING DEVICES.

I:\PUBLIC\ENGINEERING\CURRENT ECWA DETAILS\SD38\_TAP\_POLY\_WRAP\_PIPE.DWG

ERIE COUNTY WATER AUTHORITY BUFFALO, NEW YORK	STANDARD DETAIL TAPPING POLYWRAPPED PIPE	DWG. NO. SD38
		DATE 05/18

**TEE - PLAN N.T.S.**

**HORIZONTAL BEND - PLAN N.T.S.**

**GATE VALVE - ELEVATION N.T.S.**

**VERTICAL BEND - ELEVATION N.T.S.**

**NOTES:**

- POLYETHYLENE WRAP IS TO BE PLACED AROUND THE ENTIRE FITTING, AND SECURED IN PLACE WITH POLYETHYLENE TAPE. PROVIDE SUFFICIENT SLACK SO THAT POLYETHYLENE WRAP IS NOT PUNCTURED DURING BACKFILL AND DOES NOT ENTRAP AIR. POLYETHYLENE WRAP IS NOT TO BE INSTALLED WITHIN 6 INCHES OF VALVE OPERATING NUT ON VALVES.
- ALL FITTINGS TO BE POLYETHYLENE WRAPPED PRIOR TO BEDDING AND CONCRETE BLOCK PLACEMENT.
- POLYETHYLENE WRAP IS TO BE EXTENDED A MINIMUM OF 12" PAST THE FITTING ON EACH LEG AND SECURED TO THE PIPE (OR POLYWRAP IF DIP) WITH AT LEAST TWO CIRCUMFERENTIAL WRAPS OF POLYETHYLENE TAPE.

I:\PUBLIC\ENGINEERING\CURRENT ECWA DETAILS\SD39\_POLYWRAPPING\_FITTINGS.DWG

ERIE COUNTY WATER AUTHORITY BUFFALO, NEW YORK	STANDARD DETAIL POLYWRAPPING CAST/DUCTILE IRON FITTINGS	DWG. NO. SD39A
		DATE 3/18

**BUTTERFLY VALVE - ELEVATION N.T.S.**

**SOLID SLEEVE OR RESTRAINED COUPLING N.T.S.**

**EXTERNAL JOINT RESTRAINT N.T.S.**

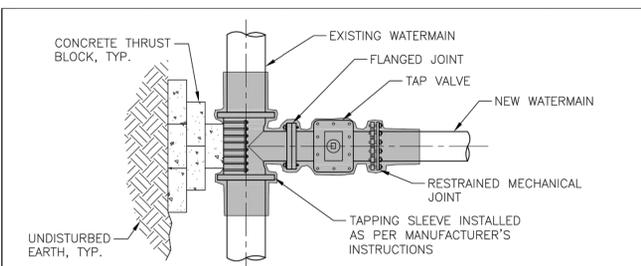
**NOTES:**

- POLYETHYLENE WRAP IS TO BE PLACED AROUND THE ENTIRE FITTING, AND SECURED IN PLACE WITH POLYETHYLENE TAPE. PROVIDE SUFFICIENT SLACK SO THAT POLYETHYLENE WRAP IS NOT PUNCTURED DURING BACKFILL AND DOES NOT ENTRAP AIR. POLYETHYLENE WRAP IS NOT TO BE INSTALLED WITHIN 6 INCHES OF VALVE OPERATING NUT ON VALVES.
- ALL FITTINGS TO BE POLYETHYLENE WRAPPED PRIOR TO BEDDING AND CONCRETE BLOCK PLACEMENT.
- POLYETHYLENE WRAP IS TO BE EXTENDED A MINIMUM OF 12" PAST THE FITTING ON EACH LEG AND SECURED TO THE PIPE (OR POLYWRAP IF DIP) WITH AT LEAST TWO CIRCUMFERENTIAL WRAPS OF POLYETHYLENE TAPE.

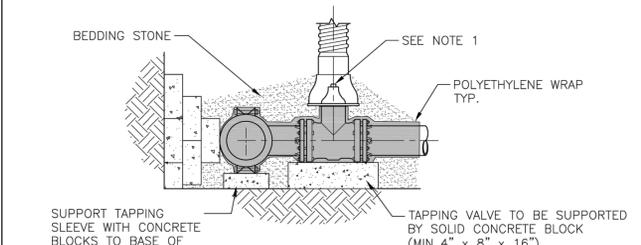
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ERIE COUNTY WATER AUTHORITY BUFFALO, NEW YORK	STANDARD DETAIL POLYWRAPPING CAST/DUCTILE IRON FITTINGS	DWG. NO. SD39B
		DATE 12/18

General Notes



**PLAN**  
N.T.S.



**DETAIL**  
N.T.S.

NOTES:

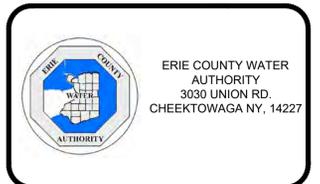
1. POLYETHYLENE WRAP IS TO BE PLACED AROUND THE ENTIRE FITTING, AND SECURED IN PLACE WITH POLYETHYLENE TAPE. PROVIDE SUFFICIENT SLACK SO THAT POLYETHYLENE WRAP IS NOT PUNCTURED DURING BACKFILL AND DOES NOT ENTRAP AIR. POLYETHYLENE WRAP IS NOT TO BE INSTALLED WITHIN 6 INCHES OF VALVE OPERATING NUT.
2. ASSEMBLY TO BE POLYETHYLENE WRAPPED PRIOR TO BEDDING AND CONCRETE BLOCK PLACEMENT.
3. POLYETHYLENE WRAP IS TO BE EXTENDED A MINIMUM OF 12" PAST THE FITTING ON EACH LEG AND SECURED TO THE PIPE (OR POLYWRAP IF DIP) WITH AT LEAST TWO CIRCUMFERENTIAL WRAPS OF POLYETHYLENE TAPE.

I:\PUBLIC\ENGINEERING\CURRENT EDWA DETAILS\SD42\_TAPPING SLEEVE & VALVE

ERIE COUNTY WATER AUTHORITY BUFFALO, NEW YORK	STANDARD DETAIL TAPPING SLEEVE AND VALVE	DWG. NO. SD42	
		DATE 01/19	REVISED

Legend

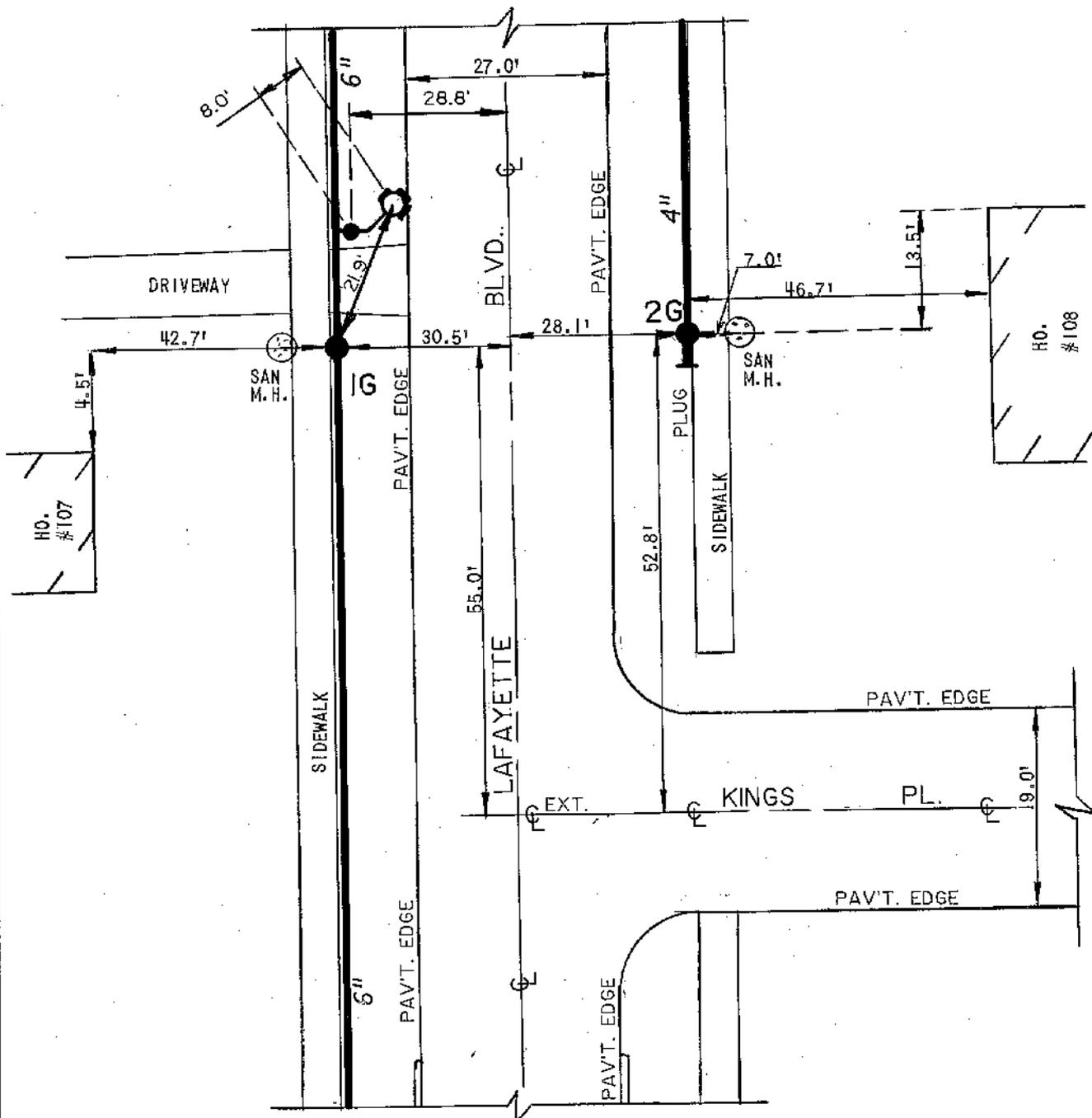
Approved By:



ERIE COUNTY WATER  
 AUTHORITY  
 3030 UNION RD.  
 CHEEKTOWAGA NY, 14227

Project Name  
 LAFAYETTE BLVD AND KING PL  
 WATER SYSTEM IMPROVEMENTS  
 TOWN OF AMHERST  
 ERIE COUNTY - NEW YORK

MISCELLANEOUS DETAILS		Sheet <b>W-5</b>
Name	Date MAY 2021	Page: 5 of 5
Scale: AS SHOWN	Drawn/Revised By: WWW	
		File Name: 202100138 - LAFAYETTE DESIGN



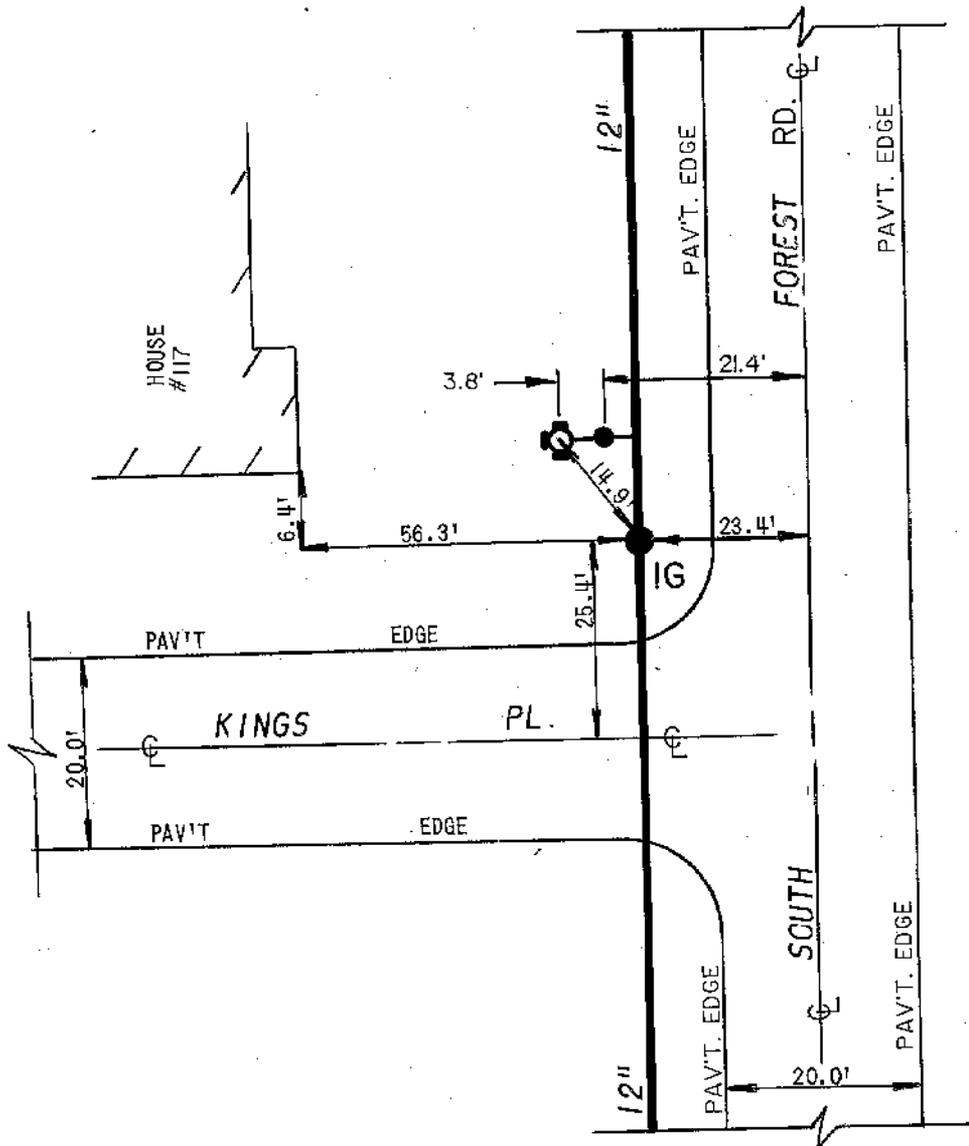
AMTN-486-9001-PA  
FB 82/56

**EC** **ERIE COUNTY**  
**WA** **WATER AUTHORITY**  
BUFFALO, NEW YORK

REVISED  
DR. BY: J.M.S.  
DATE: 8-14-92  
SCALE: NONE

TOWN OF AMHERST  
E.C.W.A.

DETAIL SHEET NO.  
J07-H60



HYDR-023-8205-PA  
PL-28I

**EC** ERIE COUNTY  
**WA** WATER AUTHORITY  
BUFFALO, NEW YORK

REVISED  
DR. BY: J.M.S.  
DATE: 8-18-92  
SCALE: NONE

TOWN OF AMHERST  
E.C.W.A.

DETAIL SHEET NO.  
J07-H6I

**ERIE COUNTY WATER AUTHORITY  
CONSTRUCTION AUTHORIZATION**

Project No. 202100158  
Budget No. \_\_\_\_\_

Authorization No.: EC 7198  
Date: 6/25/21  
Inputted By/Date: \_\_\_\_\_

June 2021 Estimate Starting Date  
October 2021 Estimate Complete Date  
X yes        no Retirement Involved  
       X Public Street  
       Private Right of Way  
       On Authority's Prop  
       Tax Districts \_\_\_\_\_  
Name of Grantor of Easement \_\_\_\_\_  
Date of Easement \_\_\_\_\_

**TITLE OF PROJECT:** Abbott Rd./Bay View Rd./South Abbott Rd. #5450 Main Modification.

**CLASS OF MAIN INSTALLATION:**  
       X System Betterment  
       Bldr/Cont/Dev. Agree.  
       Owner Occupant Cont.  
       Special Revenue Cont.

**DETAILED DESCRIPTION AND PURPOSE:**  
Modification of piping at PRV, 8" cross-connection between 8" & 24" mains, replacement of Hydrant J17-E41A at the intersection of Abbott Rd., Bay View Rd. & #5450 South Abbott Rd. in the Town of Hamburg.

**ESTIMATE COST**

(1) Total Est. Cost \$ 143,836.34  
(2) \_\_\_\_\_ Meters and Service @ \$ \_\_\_\_\_  
(3) Removal Cost Less Salvage \$ \_\_\_\_\_  
(4) Gross Investment \$ 143,836.34

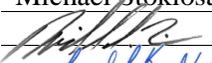
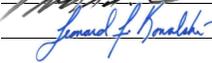
**DEDUCT**

(5) Const. Advance \$ \_\_\_\_\_  
(6) Service Conn. \$ \_\_\_\_\_  
(7) Refunds \$ \_\_\_\_\_  
(8) Net Auth. Invest. \$ 143,836.34

**BUDGETARY DATA**

(9) Tot. Budget Expnd. \$ \_\_\_\_\_  
(10) This Authorization \$ \_\_\_\_\_  
(11) Pre Approved \$ \_\_\_\_\_  
(12) Tot. Apvl. To Date \$ \_\_\_\_\_  
(13) Bal. Budget Expnd. \$ \_\_\_\_\_

**APPROVALS**

Preparation Michael Stoklosa  
Dir. of Dist.  2/27/2026  
Exec. Engr.  2/27/2026  
Admn. Director \_\_\_\_\_  
Legal Dept. \_\_\_\_\_  
Acct. Dept. \_\_\_\_\_

**ESTIMATED EARNINGS & RETURNS**

**ESTIMATED INCREASE IN REVENUES**

(14) Customers @ \$ \_\_\_\_\_  
\$ \_\_\_\_\_  
(15) Hydrants @ \$ \_\_\_\_\_  
\$ \_\_\_\_\_

**EST. SAVINGS IN OPERATING EXPENSES**

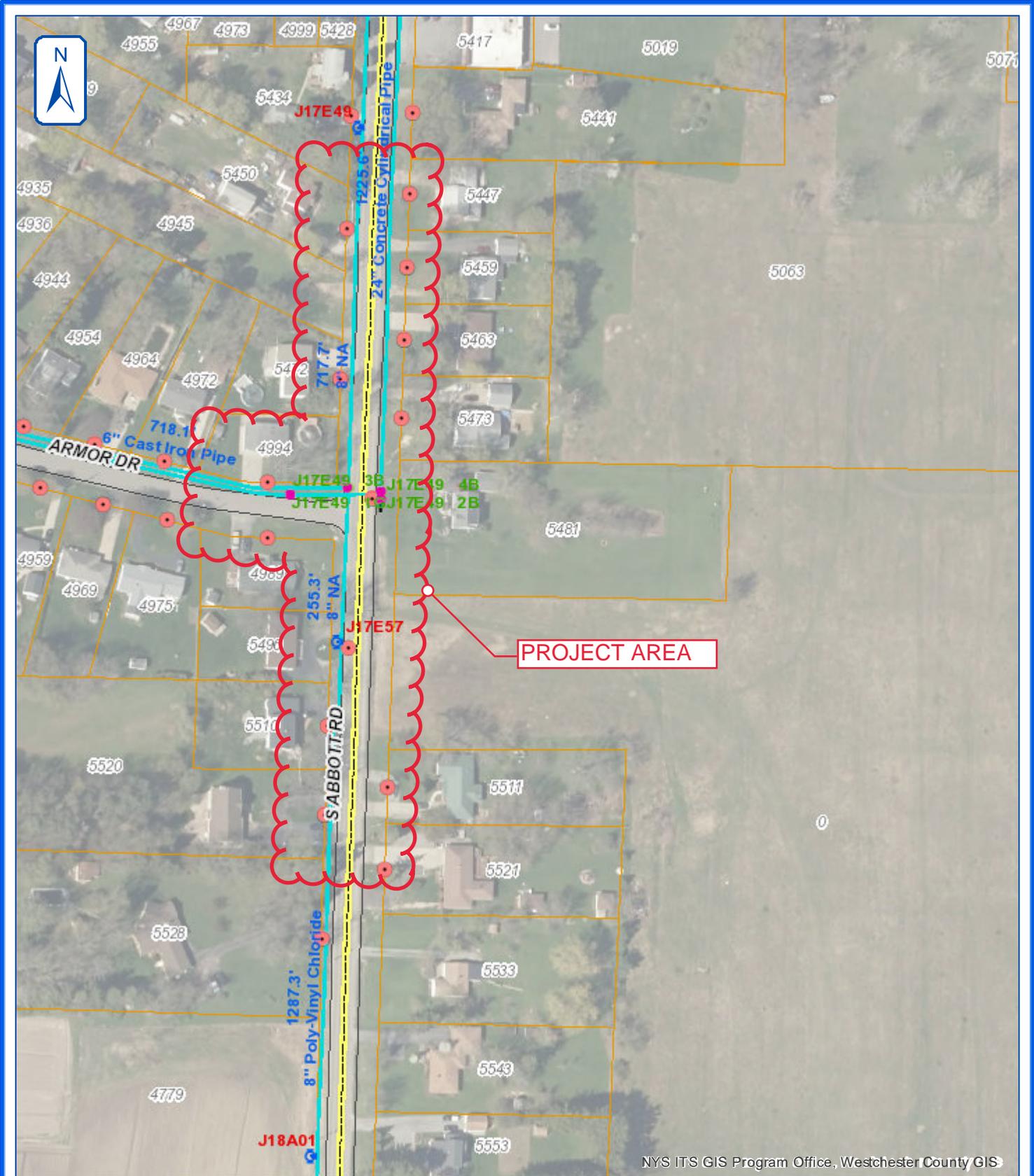
(16) \$ \_\_\_\_\_  
(17) Gross Increase in Earnings \$ \_\_\_\_\_

**REVENUE DEDUCTIONS**

(18) Operating Exp. \_\_\_\_\_ % \$ \_\_\_\_\_  
(19) Depreciation \$ \_\_\_\_\_  
(20) Total Deductions \$ \_\_\_\_\_  
(21) Net Income Loss \$ \_\_\_\_\_  
(22) % Return on Investment \_\_\_\_\_  
(21) divided by 8) \_\_\_\_\_ %

**RESOLUTION APPROVING**

Adopted \_\_\_\_\_  
Item No. \_\_\_\_\_



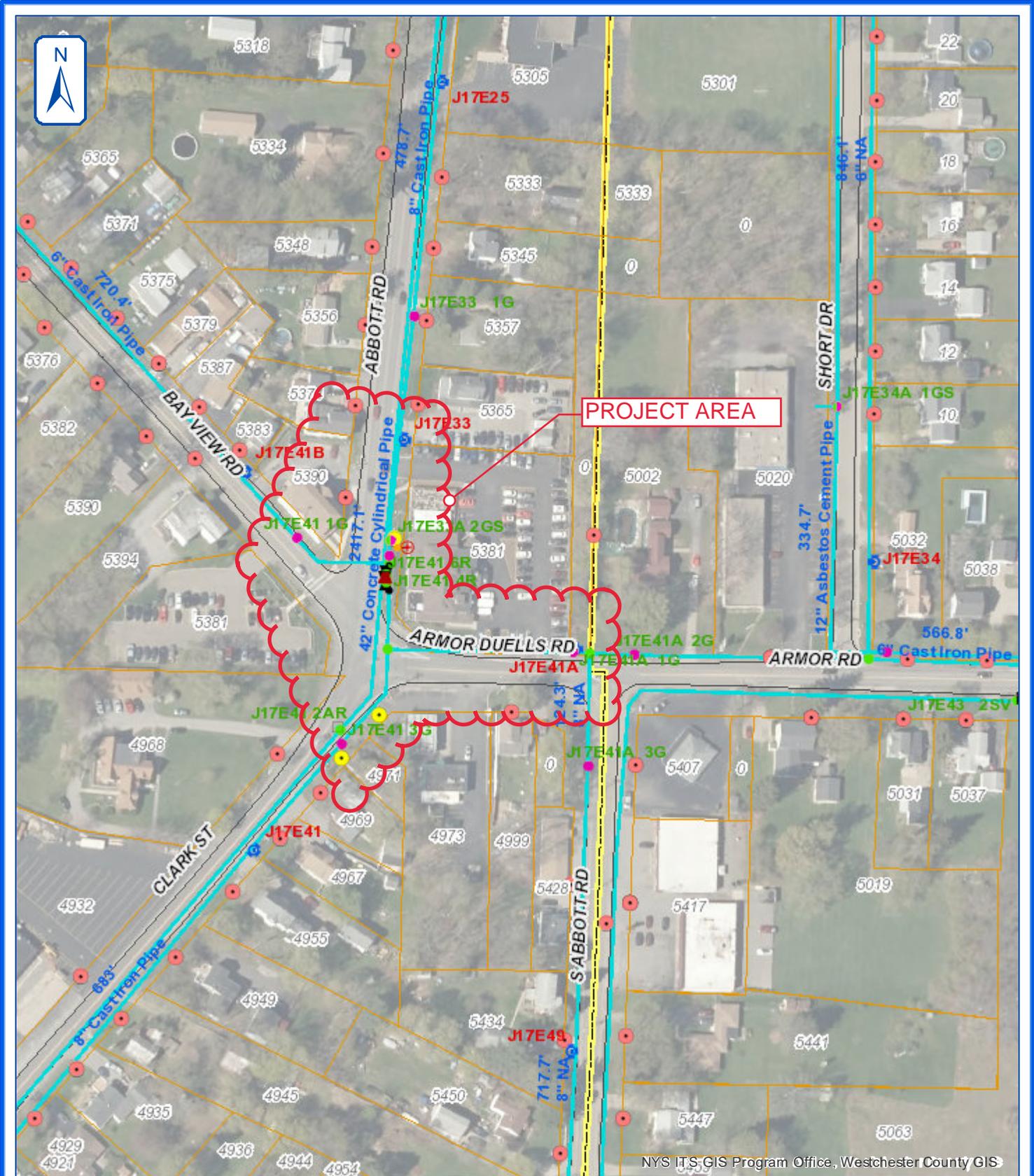
NYS ITS GIS Program Office, Westchester County GIS

ARMOR DR AND S. ABBOTT RD

April 8, 2021



ERIE COUNTY WATER AUTHORITY  
BUFFALO, NEW YORK



PROJECT AREA

BAY VIEW RD AND ABBOTT RD

April 8, 2021



ERIE COUNTY WATER AUTHORITY  
BUFFALO, NEW YORK

NYS ITS GIS Program Office, Westchester County GIS

PROJECT NUMBER: 202100158  
 EC/OWIP NUMBER: 107200-007198  
 PROJECT DISCRIPTION: ARMOR AREA WATER SYSTEM IMPROVEMENTS; 24-INCH CROSS CONNECTION AND PRV P

<i>BID ITEM #</i>	<i>EST. QUANTITY</i>	<i>UNIT</i>	<i>UNIT COST</i>	<i>MEASURED QUANTITY</i>	<i>AMOUNT</i>
1A1	3500	LF @	\$80.00	98.50	\$7,880.00
2A1	20	Ea @	\$3,500.00	2.00	\$7,000.00
3A1	30	Ea @	\$2,500.00	3.00	\$7,500.00
3B1	1	Ea @	\$5,000.00	1.00	\$5,000.00
3C1	5	Ea @	\$5,300.00	2.00	\$10,600.00
4A1	5	Ea @	\$1,450.00	1.00	\$1,450.00
5A1	100	Ea @	\$250.00	8.00	\$2,000.00
6A1	3000	LF @	\$1.00	90.00	\$90.00
7B1	10	Ea @	\$650.00	2.00	\$1,300.00
8A1	1800	CY @	\$55.00	25.18	\$1,384.90
10B1	20	LF @	\$120.00	34.00	\$4,080.00
12A2	50	LF @	\$10.00	44.00	\$440.00
12A3	350	LF @	\$10.00	50.00	\$500.00
13B1	600	SY @	\$130.00	11.55	\$1,501.50
13B8	200	SY @	\$165.00	290.00	\$47,850.00
13F1	3200	SY @	\$30.00	105.00	\$3,150.00
14B1	1	ALW	\$150,000.00	\$5,582.00	\$5,582.00
14B2	1	ALW	\$50,000.00	\$1,441.60	\$1,441.60
<i>TOTAL:</i>					\$108,750.00



# ERIE COUNTY WATER AUTHORITY

## REQUISITION ON STORES

Project No.: 202100158      Date: 07-16-21      Requisition No.: \_\_\_\_\_

Issue To: Kandey Co., Inc.

For Use In: 24" Cross Connection and PRV Pit Piping Reconfiguration

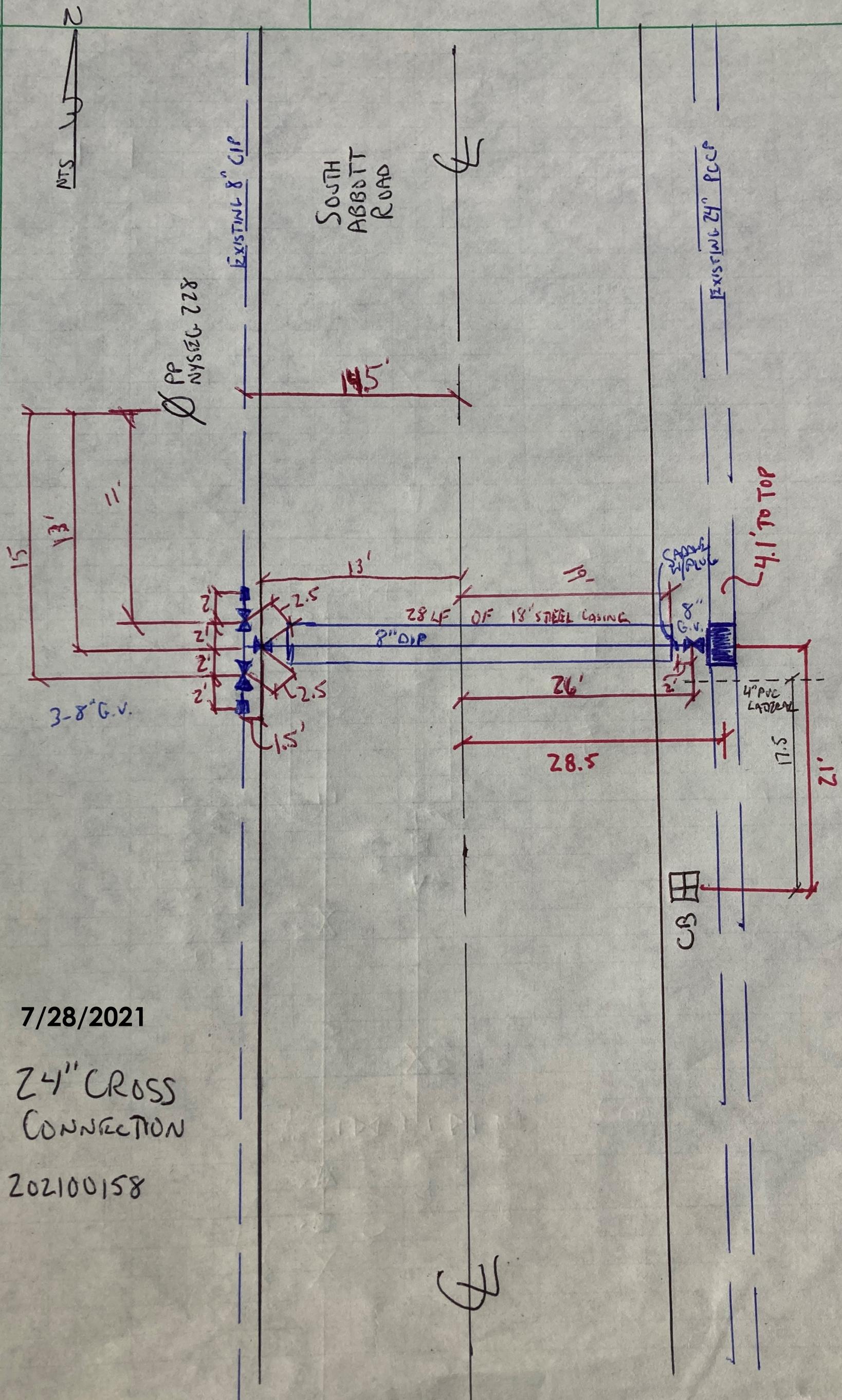
Location: Armor Area

OWIP: \_\_\_\_\_ EC NO.: 107200-007198      Svc. No.: \_\_\_\_\_

Quantity	Description	Part #	On Site	Used	Ret.
30 ft	6" DI Pipe				
90 ft	8" DI Pipe				
120 ft	Poly Wrap				
4	6" 45° DI Bends MJ w/ Accessories				
2	6" 22.5° DI Bends MJ w/ Accessories				
2	6" 11.25° DI Bends MJ w/ Accessories				
2	8"X2" Tapping Saddle & Corps				
1	8"x8"x8" DI Tee w/ Accessories				
1	8"x8"x6" DI Tee w/ Accessories				
1	6"x6"x6" DI Tee w/ Accessories				
1	24"x8" Tapping Sleeve for Concrete Pipe				
4	8" Solid Sleeve w/ Accessories				
4	6" Solid Sleeve w/ Accessories				
5	8" Gate Valve				
4	6" Gate Valve				
1	8" Tapping Valve				
10	Complete Valve Box				
3	8"x2" DI Tapped Cap MJ w/ Accessories				
18	6" DI Mega Lugs				
2	6" CIP Mega Lugs				
21	8" DI Mega Lugs				
4	8" CIP Mega Lugs				
4	Ductile Lugs				
6	3/4" All Thread				
4	3/4" Nuts				
3	2" MIP x Compression Corp				
1	2" Compression x Compression Corp				
1	5.5' Hydrant Assembly				
20 ft	2" Copper				

Kandey Co., Inc. \_\_\_\_\_

Inspector \_\_\_\_\_



NTS

SOUTH  
 ABBOTT  
 ROAD

EXISTING 8" CIP

EXISTING 24" PCCP

PP  
 NYSEG 228

15'

13'

3-8" G.V.

2'

2.5'

2'

2.5'

2'

1.5'

13'

28 LF OF 18" STEEL CASING

8" DIP

SAME  
 W/PLUG

8" G.V.

4.1' TO TOP

26'

4" PVC LATERAL

28.5'

17.5'

21'

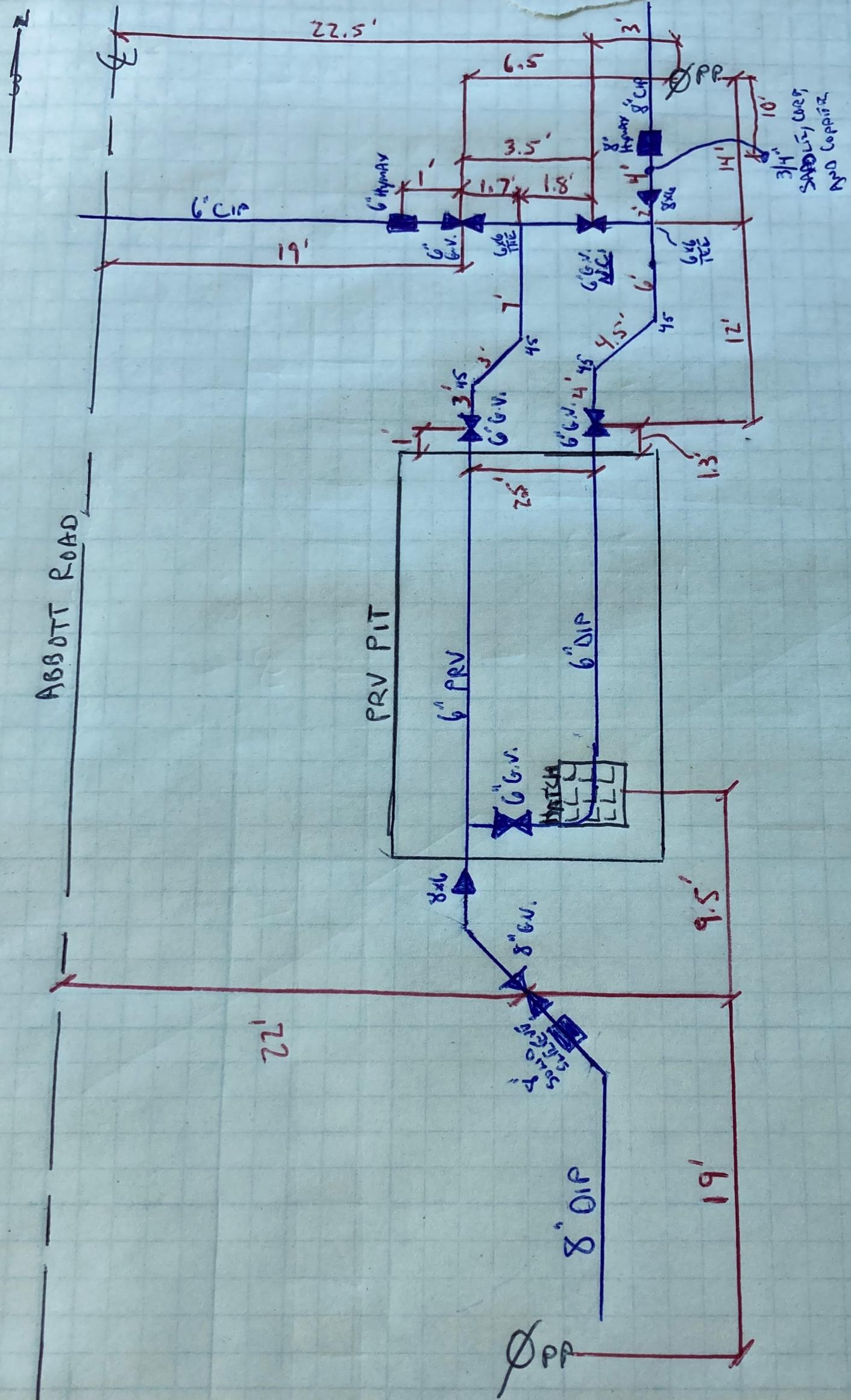
NEW 24" XT"  
 TAPPING SIZE  
 AND VALVE

CS

7/28/2021

24" CROSS  
 CONNECTION

202100158



ABBOTT ROAD

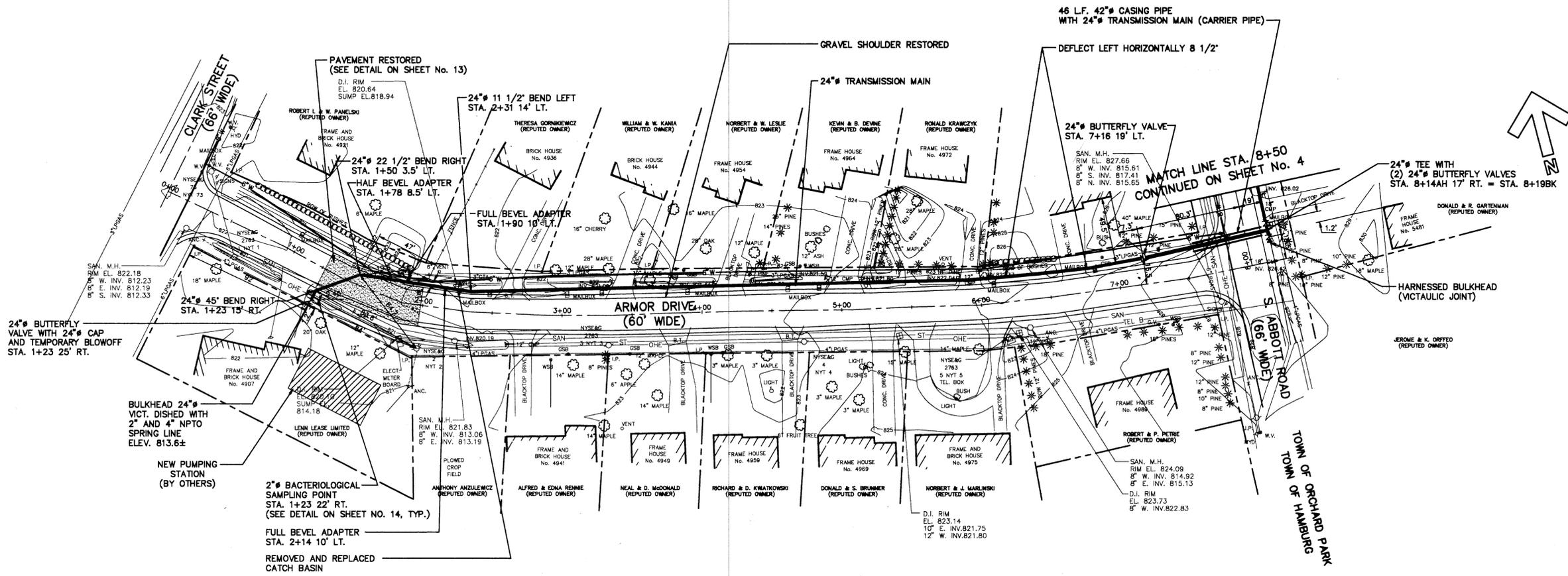
PRV PIT

SEWER

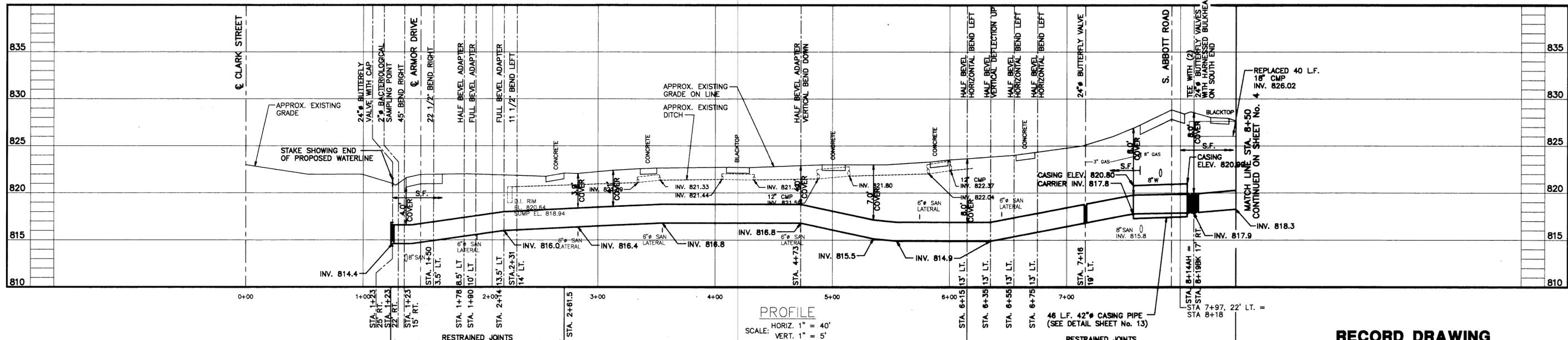
PROJECT # 202100158-ARMOR  
 9/28/21  
 WRW







PLAN  
SCALE: 1" = 40'



PROFILE  
HORIZ. 1" = 40'  
VERT. 1" = 5'

**RECORD DRAWING**

UNAUTHORIZED ALTERATION OR ADDITION TO THIS ENGINEERING DRAWING IS A VIOLATION OF SECTION 7209, PROVISION 2 OF THE NEW YORK STATE EDUCATION LAW.

NUSSBAUMER & CLARKE, INC.  
A CORPORATION REGISTERED TO PRACTICE PROFESSIONAL ENGINEERING & LAND SURVEYING IN THE STATE OF NEW YORK  
CERTIFICATE NO. 027

REVISIONS	
NO.	BY DATE
1	PJB AS-BUILT

DESIGNED BY: M.A.N.	CHECKED BY: <i>[Signature]</i>
DRAWN BY: A.M.L.	CHECKED BY: <i>[Signature]</i>
DATE: MAY 1995	SCALE: AS SHOWN
JOB NO. 93-148	REPORT NO.:
DRAWING NO. 93148-3	

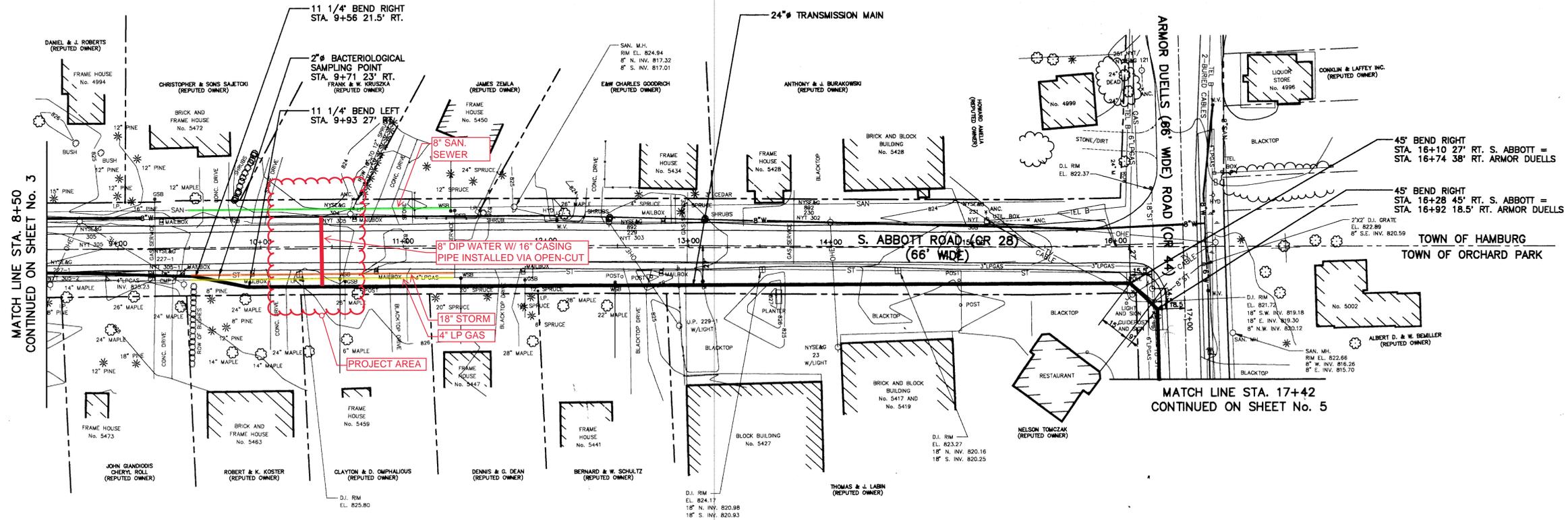
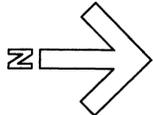
**nc** **NUSSBAUMER & CLARKE, INC.**  
Consulting Engineers, Surveyors  
BUFFALO, NEW YORK OSWEGO, NEW YORK

ERIE COUNTY WATER AUTHORITY  
24 INCH TRANSMISSION MAIN  
CONTRACT NC-19  
ECWA FILE No. 9300399  
PLAN AND PROFILE  
STA. 1+35 TO STA. 8+50

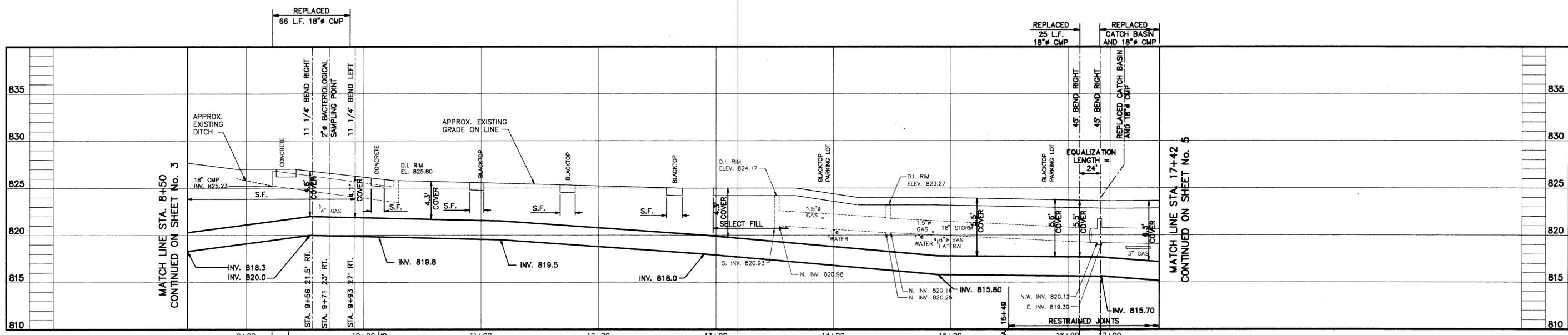
SHEET NO. 3 OF 15

93148/3/40 144451  
11/08/96 NET/7/9





PLAN  
SCALE: 1" = 40'



PROFILE  
SCALE: HORIZ. 1" = 40'  
VERT. 1" = 5'

93148R/107-8701125  
11/06/96 NEV/PJ/B



UNAUTHORIZED ALTERATION OR ADDITION TO THIS ENGINEERING DRAWING IS A VIOLATION OF SECTION 7209. PROVISION 2 OF THE NEW YORK STATE EDUCATION LAW.

NUSSBAUMER & CLARKE, INC.  
A CORPORATION REGISTERED TO PRACTICE PROFESSIONAL ENGINEERING & LAND SURVEYING IN THE STATE OF NEW YORK  
CERTIFICATE NO. 027

REVISIONS	
NO.	BY DATE
1	PJB AS-BUILT

DESIGNED BY: M.A.N.	CHECKED BY: MS
DRAWN BY: A.M.L.	CHECKED BY: JCB
DATE: MAY 1995	SCALE: AS SHOWN
JOB NO. 93-148	REPORT NO.:
DRAWING NO. 93148-4	

**nc** **NUSSBAUMER & CLARKE, INC.**  
Consulting Engineers, Surveyors  
BUFFALO, NEW YORK OSWEGO, NEW YORK

**RECORD DRAWING**  
ERIE COUNTY WATER AUTHORITY  
24 INCH TRANSMISSION MAIN  
CONTRACT NC-19  
ECWA FILE No. 9300399  
PLAN AND PROFILE  
STA. 8+50 TO STA. 17+42

SHEET NO.	4
OF	15

93148R/107-8701125  
11/06/96 NEV/PJ/B

**ERIE COUNTY WATER AUTHORITY  
CONSTRUCTION AUTHORIZATION**

Project No. 202100190  
Budget No. \_\_\_\_\_

Authorization No.: EC 7199  
Date: 8/20/21  
Inputted By/Date: \_\_\_\_\_

July 2019 Estimate Starting Date  
April 2022 Estimate Complete Date  
\_\_\_\_ yes \_\_\_\_ no Retirement Involved  
\_\_\_\_ Public Street  
X Private Right of Way  
\_\_\_\_ On Authority's Prop  
\_\_\_\_ Tax Districts \_\_\_\_\_  
\_\_\_\_ Name of Grantor of Easement  
\_\_\_\_ Date of Easement

**TITLE OF PROJECT:** Residual Lagoon Sludge  
Line/Sturgeon Point WTP

**CLASS OF MAIN INSTALLATION:**  
X System Betterment  
\_\_\_\_ Bldr/Cont/Dev. Agree.  
\_\_\_\_ Owner Occupant Cont.  
\_\_\_\_ Special Revenue Cont.

**DETAILED DESCRIPTION AND PURPOSE:**  
Installation of sludge distribution lines. To provide  
control on the discharge of sludge into the lagoons

**ESTIMATE COST**

(1) Total Est. Cost \$ 153,118.35  
(2) \_\_\_\_\_ Meters and Service @ \$ \_\_\_\_\_  
(3) Removal Cost Less Salvage \$ \_\_\_\_\_  
(4) Gross Investment \$ 153,118.35

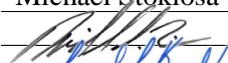
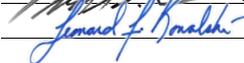
**DEDUCT**

(5) Const. Advance \$ \_\_\_\_\_  
(6) Service Conn. \$ \_\_\_\_\_  
(7) Refunds \$ \_\_\_\_\_  
(8) Net Auth. Invest. \$ 153,118.35

**BUDGETARY DATA**

(9) Tot. Budget Expnd. \$ \_\_\_\_\_  
(10) This Authorization \$ \_\_\_\_\_  
(11) Pre Approved \$ \_\_\_\_\_  
(12) Tot. Apvl. To Date \$ \_\_\_\_\_  
(13) Bal. Budget Expnd. \$ \_\_\_\_\_

**APPROVALS**

Preparation Michael Stoklosa  
Director of Dist.  2/23/2026  
Exec. Engr.  2/23/2026  
Admn. Director \_\_\_\_\_  
Legal Dept. \_\_\_\_\_  
Acct. Dept. \_\_\_\_\_

**ESTIMATED EARNINGS & RETURNS**

**ESTIMATED INCREASE IN REVENUES**

(14) \_\_\_\_\_ Customers @ \$ \_\_\_\_\_  
\_\_\_\_\_ \$ \_\_\_\_\_  
(15) \_\_\_\_\_ Hydrants @ \$ \_\_\_\_\_  
\_\_\_\_\_ \$ \_\_\_\_\_

**EST. SAVINGS IN OPERATING EXPENSES**

(16) \_\_\_\_\_ \$ \_\_\_\_\_  
(17) Gross Increase in Earnings \$ \_\_\_\_\_

**REVENUE DEDUCTIONS**

(18) Operating Exp. \_\_\_\_\_ % \$ \_\_\_\_\_  
(19) Depreciation \$ \_\_\_\_\_  
(20) Total Deductions \$ \_\_\_\_\_  
(21) Net Income Loss \$ \_\_\_\_\_  
(22) % Return on Investment \_\_\_\_\_  
(21) divided by 8) \_\_\_\_\_ %

**RESOLUTION APPROVING**

Adopted \_\_\_\_\_  
Item No. \_\_\_\_\_



# ERIE COUNTY WATER AUTHORITY

## REQUISITION ON STORES

Project No.: 202100190 Date: 08-20-21 Requisition No.: \_\_\_\_\_

Issue To: Kandey Co., Inc.

For Use In: Sludge Lines (Looking for materials in October)

Location: Sturgeon Plant (Materials can be delivered to the Plant, coordinate drop location Dave Patton)

OWIP: \_\_\_\_\_ EC NO.: 107200-007199 Svc. No.: \_\_\_\_\_

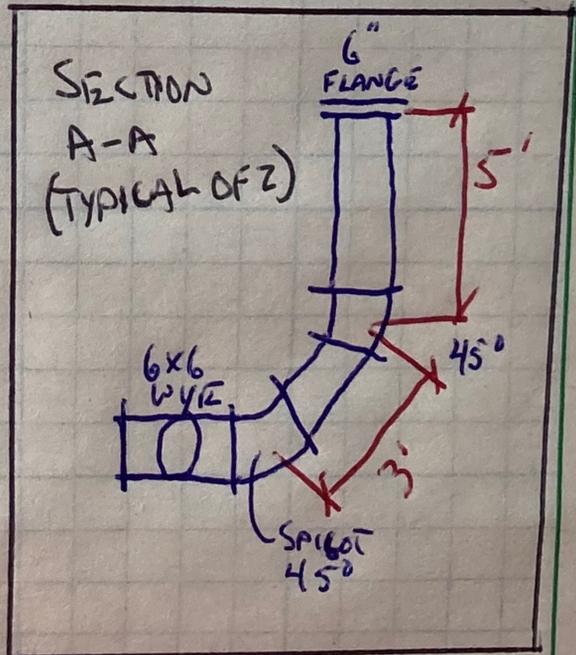
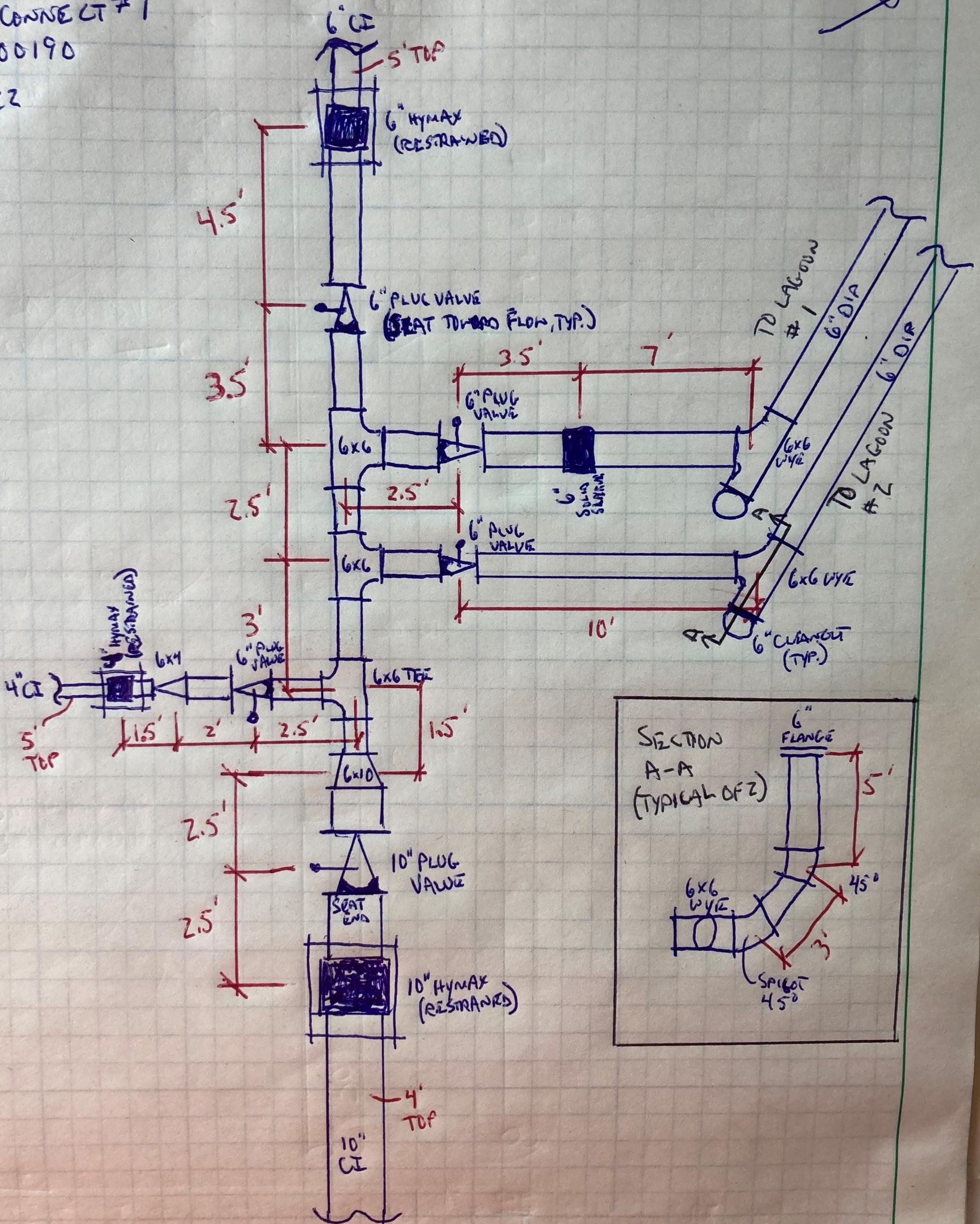
Quantity	Description	Part #	On Site	Used	Ret.
120 ft	4" DI Pipe (Flanged)				
80 ft	6" DI Pipe (Flanged)				
1,360 ft	6" DI Pipe				
1,500 ft	Poly Wrap				
14	6" 45° DI Bends MJ w/ Accessories				
2	6" 11.25° DI Bends MJ w/ Accessories				
3	6"x6"x6" DI MJ Tee w/ Accessories				
6	6"x6"x4" DI MJ Tee w/ Accessories				
3	6"x6"x6" DI MJ Wye w/ Accessories				
1	10"x6" DI MJ Reducer w/ Accessories				
4	6" DI Flanged End Cap w/ Accessories				
2	6" Solid Sleeve w/ Accessories				
130	6" DI Mega Lugs				
18	4" DI Mega Lugs				
98	Ductile Lugs				
150	3/4" All Thread				
98	3/4" Nuts				
4	6" Plug Valve w/ Accessories				
6	4" Plug Valve w/ Accessories				
10	Complete Valve Box				

Kandey Co., Inc. \_\_\_\_\_

Inspector \_\_\_\_\_



STURGEON POINT  
 SLUDGE LINE  
 INTERCONNECT #1  
 Z02100190  
 4/5/22



**ERIE COUNTY WATER AUTHORITY  
CONSTRUCTION AUTHORIZATION**

Project No. 202100233  
Budget No. \_\_\_\_\_

Authorization No.: EC 7206  
Date: 9/27/21  
Inputted By/Date: \_\_\_\_\_

September 2021 Estimate Starting Date  
November 2021 Estimate Complete Date  
 yes  no Retirement Involved  
 Public Street  
Private Right of Way  
On Authority's Prop  
Tax Districts \_\_\_\_\_  
Name of Grantor of Easement \_\_\_\_\_  
Date of Easement \_\_\_\_\_

**TITLE OF PROJECT:** Hydrant Replacement  
Transit Rd. #4401.

**DETAILED DESCRIPTION AND PURPOSE:**  
Replacement of Hydrant at 4401 Transit Rd.  
(Northwest bank). Hydrant #L07-B58A in the  
Town of Clarence.

**CLASS OF MAIN INSTALLATION:**

System Betterment  
 Bldr/Cont/Dev. Agree.  
 Owner Occupant Cont.  
 Special Revenue Cont.

**ESTIMATE COST**

(1) Total Est. Cost \$ 43,496.54  
(2) \_\_\_\_\_ Meters and Service @ \$ \_\_\_\_\_  
(3) Removal Cost Less Salvage \$ \_\_\_\_\_  
(4) Gross Investment \$ 43,496.54

**DEDUCT**

(5) Const. Advance \$ \_\_\_\_\_  
(6) Service Conn. \$ \_\_\_\_\_  
(7) Refunds \$ \_\_\_\_\_  
(8) Net Auth. Invest. \$ 43,496.54

**BUDGETARY DATA**

(9) Tot. Budget Expnd. \$ \_\_\_\_\_  
(10) This Authorization \$ \_\_\_\_\_  
(11) Pre Approved \$ \_\_\_\_\_  
(12) Tot. Apvl. To Date \$ \_\_\_\_\_  
(13) Bal. Budget Expnd. \$ \_\_\_\_\_

**APPROVALS**

Preparation Michael Stoklosa  
Dir. of Dist. \_\_\_\_\_ 2/27/2026  
Exec. Engr. *Jenard F. Romalek* 2/27/2026  
Admn. Director \_\_\_\_\_  
Legal Dept. \_\_\_\_\_  
Acct. Dept. \_\_\_\_\_

**ESTIMATED EARNINGS & RETURNS**

**ESTIMATED INCREASE IN REVENUES**

(14) Customers @ \$ \_\_\_\_\_  
\$ \_\_\_\_\_  
(15) Hydrants @ \$ \_\_\_\_\_  
\$ \_\_\_\_\_

**EST. SAVINGS IN OPERATING EXPENSES**

(16) \$ \_\_\_\_\_  
(17) Gross Increase in Earnings \$ \_\_\_\_\_

**REVENUE DEDUCTIONS**

(18) Operating Exp. \_\_\_\_\_ % \$ \_\_\_\_\_  
(19) Depreciation \$ \_\_\_\_\_  
(20) Total Deductions \$ \_\_\_\_\_  
(21) Net Income Loss \$ \_\_\_\_\_  
(22) % Return on Investment \_\_\_\_\_  
(21) divided by 8) \_\_\_\_\_ %

**RESOLUTION APPROVING**

Adopted \_\_\_\_\_  
Item No. \_\_\_\_\_

**KANDEY COMPANY INC. - Project No. K2175**  
**ECWA WATER DISTRIBUTION SYSTEM REPLACEMENTS CONTRACT # 202100009**

Attn: Bill Wheeler

K2175-7

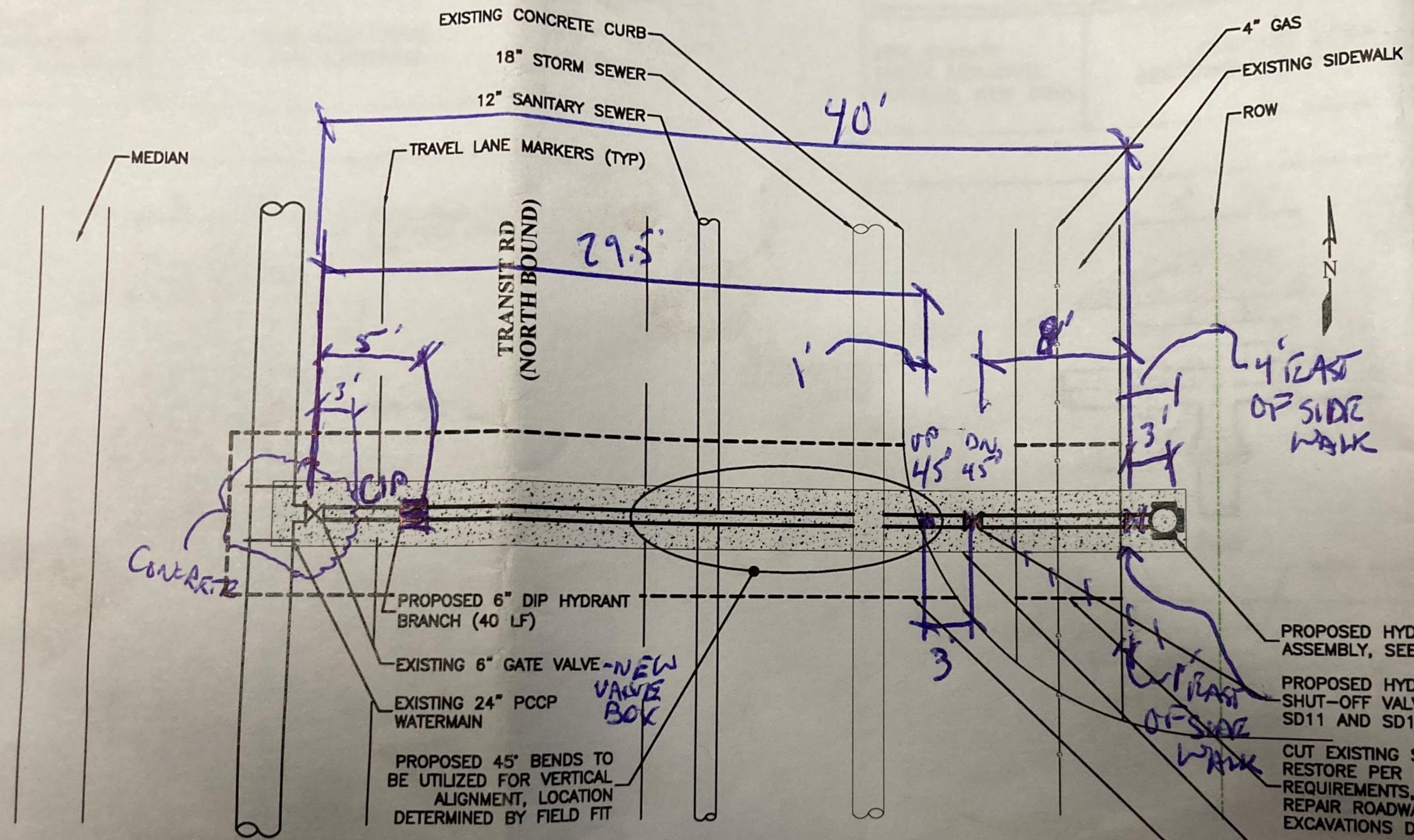
ITEM NO.	DESCRIPTION	QTY	UM	BILLING	TOTAL
<b>Item 1 - Watermain</b>					
<b>Item 1A - 4-inch to 8-inch Watermain (PVC or DIP)</b>					
1A1	Installing 4-inch to 8-inch Watermain, 6-feet or less of cover	40.00	LF	\$80.00	\$3,200.00
1A2	For installing 4-inch to 8-inch Watermain, greater than 6-feet of cover		LF	\$95.00	\$0.00
<b>Item 1B - 10-inch to 12-inch Watermain (PVC or DIP)</b>					
1B1	For installing 10-inch to 12-inch Watermain, 6-feet or less of cover		LF	\$90.00	\$0.00
1B2	For installing 10-inch to 12-inch Watermain, greater than 6-feet of cover		LF	\$110.00	\$0.00
<b>Item 1C - High Density Polyethylene (HDPE) - HDD USE ONLY</b>					
1C1	F&I 10-inch DR9 DIPS (HDPE) Watermain for 8-inch watermain supply		LF	\$44.00	\$0.00
1C2	F&I 12-inch DR9 DIPS (HDPE) Watermain for 10-inch watermain supply		LF	\$55.00	\$0.00
1C3	F&I 16-inch DR9 DIPS (HDPE) Watermain for 12-inch watermain supply		LF	\$100.00	\$0.00
<b>Item 2 - Valves</b>					
<b>Item 2A - Gate Valves</b>					
2A1	For installing 4-inch to 8-inch Gate Valve	0.00	Ea	\$3,500.00	\$0.00
2A2	For installing 10-inch to 12-inch Gate Valve		Ea	\$3,800.00	\$0.00
<b>Item 2B - Butterfly Valves</b>					
2B2	For installing 12-inch Butterfly Valve		Ea	\$4,000.00	\$0.00
<b>Item 2C - Air Release Valve</b>					
2C1	For furnishing and installing Air Release Valve with Concrete Chamber		Ea	\$5,000.00	\$0.00
2C2	For furnishing and installing Manually Operated Air Release Assembly		Ea	\$3,000.00	\$0.00
2D1	For Existing Valve Abandonment - Complete (All Sizes)		Ea	\$1,200.00	\$0.00
<b>Item 3 - Existing Watermain Connections (Interconnections)</b>					
<b>Item 3A - Inline Connection</b>					
3A1	For 4-inch to 8-inch Inline Connection - Complete	1.00	Ea	\$2,500.00	\$2,500.00
3A2	For 10-inch to 12-inch Inline Connection - Complete		Ea	\$3,000.00	\$0.00
<b>Item 3B - Tapping Sleeve and Valve (Hot Tap)</b>					
3B1	For installing 4-inch to 8-inch Tapping Sleeve and Valve		Ea	\$5,000.00	\$0.00
3B2	For installing 10-inch to 12-inch Tapping Sleeve and Valve - Complete		Ea	\$5,000.00	\$0.00
<b>Item 3C - Cut-in Tee with Valve Cluster</b>					
3C1	For installing 4-inch to 8-inch Cut-in Tee with Valve Cluster - Complete		Ea	\$5,300.00	\$0.00
3C2	For installing 10-inch to 12-inch Cut-in Tee with Valve Cluster - Complete		Ea	\$5,300.00	\$0.00
<b>Item 4 - Fire Hydrants</b>					
<b>Item 4A - New Fire Hydrant Assembly</b>					
4A1	For installing New Fire Hydrant Assembly - Complete	1.00	Ea	\$1,450.00	\$1,450.00
<b>Item 4B - Existing Fire Hydrant Abandonment</b>					
4B1	For Existing Fire Hydrant Abandonment - Complete	1.00	Ea	\$750.00	\$750.00
<b>Item 5 - Ductile Iron (DI) Fittings</b>					
<b>Item 5A - Ductile Iron (DI) Fittings</b>					
5A1	For installing 4-inch to 8-inch Ductile Iron (DI) fittings with restraints not included under Item 3	3.00	Ea	\$250.00	\$750.00
5A2	For installing 10-inch to 12-inch Ductile Iron (DI) fittings with restraints not included under Item 3		Ea	\$300.00	\$0.00
5A3	For installing Joint Restraints per Section 15106 on existing 4-inch to 8-inch watermain		Ea	\$2,500.00	\$0.00
5A4	For installing Joint Restraints per Section 15106 on existing 10-inch to 12-inch watermain		Ea	\$3,000.00	\$0.00
<b>Item 6 - Polyethylene Encasement</b>					
<b>Item 6A - Polyethylene Encasement for Ductile Iron Pipe and Fitting</b>					
6A1	For installing Polyethylene Encasement for Ductile Iron Pipe and Fitting	40.00	LF	\$1.00	\$40.00
<b>Item 7 - Rock Excavation, Test Pit Excavation/Backfill, and Extra Excavation/Backfill</b>					
<b>Item 7A - Rock Excavation</b>					
7A1	For Rock Excavation per Section 02317, (Fixed Minimum Unit Price of \$50.00 per CY)	4.00	CY	\$300.00	\$1,200.00
<b>Item 7B - Test Pit Excavation and Backfill</b>					
7B1	For Test Pit Excavation and Backfill (Fixed Minimum Unit Price of \$200.00 per Each)		Ea	\$650.00	\$0.00
<b>Item 7C - Extra Excavation and Backfill</b>					
7C1	For Extra Excavation and Backfill		CY	\$50.00	\$0.00
<b>Item 8 - Special Backfill</b>					
<b>Item 8A - Select Backfill</b>					
8A1	For furnishing and installing Select Backfill	45.83	CY	\$55.00	\$2,520.65

ITEM NO.	DESCRIPTION	QTY	UM	BILLING	TOTAL
<b>Item 8B - Rip-Rap Backfill</b>					
8B1	For furnishing and installing Rip-Rap Backfill		CY	\$180.00	\$0.00
<b>Item 9 - Water Service Connections and Blow-offs</b>					
<b>Item 9A - Service Replacement/Installation</b>					
9A1	For installing 3/4-inch to 1-inch Copper Service Replacement/Installation		Ea	\$1,975.00	\$0.00
9A2	For installing 1 1/2-inch and 2-inch Copper Service Replacement/Installation		Ea	\$2,250.00	\$0.00
9A3	For furnishing and installing 3/4-inch to 1-inch Polyethylene Service Replacement/Installation		Ea	\$1,975.00	\$0.00
9A4	For furnishing and installing 1 1/2-inch and 2-inch Polyethylene Tubing Replacement/Installation		Ea	\$2,250.00	\$0.00
<b>Item 9B - Additional Copper and Polyethylene Tubing</b>					
9B1	For installing 3/4-inch to 1-inch Additional Copper Tubing		LF	\$15.00	\$0.00
9B2	For installing 1 1/2-inch and 2-inch Additional Copper Tubing		LF	\$25.00	\$0.00
9B3	For furnishing and installing 3/4-inch to 1-inch Additional Polyethylene Tubing		LF	\$15.00	\$0.00
9B4	For furnishing and installing 1 1/2-inch and 2-inch Additional Polyethylene Tubing		LF	\$25.00	\$0.00
<b>Item 9C - Blow-off Assemblies</b>					
9C1	For installing Permanent 2-inch Blowoff Assembly		Ea	\$500.00	\$0.00
9C2	For installing Temporary 2-inch Blowoff Assembly		Ea	\$250.00	\$0.00
9C3	For installing Permanent 4-inch Blowoff Assembly		Ea	\$1,000.00	\$0.00
9C4	For installing Temporary 4-inch Blowoff Assembly		Ea	\$750.00	\$0.00
9C5	For installing Permanent 8-inch Blowoff Assembly		Ea	\$1,500.00	\$0.00
<b>Item 10 - Casing Pipe</b>					
<b>Item 10 - Trenchless Casing Pipe Installation</b>					
10A1	For furnishing and installing 18-inch Diameter Casing Pipe for 8-inch Carrier Pipe		LF	\$400.00	\$0.00
10A2	For furnishing and installing 20-inch Diameter Casing Pipe for 10-inch Carrier Pipe		LF	\$400.00	\$0.00
10A3	For furnishing and installing 24-inch Diameter Casing Pipe for 12-inch Carrier Pipe		LF	\$460.00	\$0.00
<b>Item 10B - Open-cut Casing Pipe Installation</b>					
10B1	For furnishing and installing 18-inch Diameter Casing Pipe for 8-inch Carrier Pipe		LF	\$120.00	\$0.00
10B2	For furnishing and installing 20-inch Diameter Casing Pipe for 10-inch Carrier Pipe		LF	\$120.00	\$0.00
10B3	For furnishing and installing 24-inch Diameter Casing Pipe for 12-inch Carrier Pipe		LF	\$150.00	\$0.00
<b>Item 10C - Additional for Trenchless Casing Pipe Installation in Rock</b>					
10C1	For Trenchless Casing Pipe Installation in Rock, 16-inch to 18-inch		LF	\$330.00	\$0.00
10C2	For Trenchless Casing Pipe Installation in Rock, 20-inch to 24-inch		LF	\$360.00	\$0.00
<b>Item 11 - Horizontal Directional Drilling (HDD)</b>					
<b>Item 11A - Horizontal Directional Drilling (HDD)</b>					
11A1	Horizontal Directional Drill for installing 4-inch to 10-inch watermain		LF	\$80.00	\$0.00
11A2	Horizontal Directional Drill for installing 12-inch to 16-inch watermain		LF	\$100.00	\$0.00
<b>Item 12 - Testing and Disinfection</b>					
<b>Item 12A - Testing and Disinfection of Water main Lengths 200-feet or Less</b>					
12A1	For Testing and Disinfection of 4-inch Watermain (includes 6-inch HDPE)		LF	\$10.00	\$0.00
12A2	For Testing and Disinfection of 6-inch Watermain (includes 8-inch HDPE)		LF	\$10.00	\$0.00
12A3	For Testing and Disinfection of 8-inch Watermain (includes 10-inch HDPE)		LF	\$10.00	\$0.00
12A4	For Testing and Disinfection of 10-inch Watermain (includes 12-inch HDPE)		LF	\$10.00	\$0.00
12A5	For Testing and Disinfection of 12-inch Watermain (includes 16-inch HDPE)		LF	\$10.00	\$0.00
<b>Item 12B - Testing and Disinfection of Water main Lengths greater than 200-feet</b>					
12B1	For Testing and Disinfection of 8-inch Watermain (includes 10-inch HDPE)		LF	\$55.00	\$0.00
12B2	For Testing and Disinfection of 10-inch Watermain (includes 12-inch HDPE)		LF	\$5.00	\$0.00
12B5	For Testing and Disinfection of 12-inch Watermain (includes 16-inch HDPE)		LF	\$5.00	\$0.00
<b>Item 13 - Pavement, Sidewalk, Driveway, Lawn, and Landscape Restoration</b>					
<b>Item 13A - Clearing and Grubbing</b>					
13A1	For Additional Clearing and Grubbing, width greater than 15-feet		SY	\$100.00	\$0.00
<b>Item 13B - Pavement Restoration</b>					
13B1	For Asphalt Pavement Restoration	16.66	SY	\$130.00	\$2,165.80
13B2	For Concrete Pavement Restoration		SY	\$175.00	\$0.00
13B3	For Concrete with Asphalt Top Pavement Restoration		SY	\$185.00	\$0.00
13B4	For Asphalt Shoulder Restoration		SY	\$95.00	\$0.00
13B5	For Concrete Gutter Restoration		LF	\$75.00	\$0.00
13B6	For Concrete Curb Restoration		LF	\$75.00	\$0.00
13B7	For Granite Curb Restoration		LF	\$200.00	\$0.00
13B8	For Cold Milling and Asphalt Top at 1-inch to 2-inch depth		SY	\$165.00	\$0.00
13B9	For Cold Milling and Asphalt Top at each 1-inch over 2-inch depth		SY	\$75.00	\$0.00
13B10	For Cold Patch (high performance patching material) per 3-inch depth	16.66	SY	\$50.00	\$833.00
13B11	For Traffic Loop Installation		Ea	\$3,000.00	\$0.00
<b>Item 13C - Sidewalk Restoration</b>					
13C1	For Asphalt Sidewalk Restoration		SY	\$100.00	\$0.00
13C2	For Concrete Sidewalk Restoration		SY	\$150.00	\$0.00

ITEM NO.	DESCRIPTION	QTY	UM	BILLING	TOTAL
<b>Item 13D - Driveway Restoration</b>					
13D1	For Asphalt Driveway Restoration		SY	\$100.00	\$0.00
13D2	For Concrete Driveway Restoration		SY	\$170.00	\$0.00
<b>Item 13E - Asphalt Sealant</b>					
13E1	For Asphalt Sealant for driveway and sidewalks (Fixed Minimum Unit Price\$0.50 perSY)		SY	\$5.00	\$0.00
<b>Item 13F - Lawn Restoration</b>					
13F1	For Lawn Restoration	25	SY	\$30.00	\$750.00
<b>Item 13G - Landscaping Restoration</b>					
13G1	For Deciduous Trees, 3-feet to 4-feet (balled)		Ea	\$450.00	\$0.00
13G2	For Deciduous Trees, 1 1/2-inch to 2-inch caliper (balled)		Ea	\$450.00	\$0.00
13G3	For Deciduous Trees, 4-inch to 4 1/2 inch caliper (balled)		Ea	\$650.00	\$0.00
13G4	For Deciduous Shrubs, 3-feet to 4-feet (bare root)		Ea	\$95.00	\$0.00
13G5	For Evergreen Trees, 5-feet to 6-feet (balled)		Ea	\$250.00	\$0.00
13G6	For Evergreen Shrubs, 2 liz-feet to 4-feet (balled)		Ea	\$250.00	\$0.00
13G7	For Repairing Damaged Trees, pruning and wrapping		Ea	\$750.00	\$0.00
13G8	For Fertilizing Existing Trees		Ea	\$200.00	\$0.00
<b>Item 14 - Crew Rate and Construction Allowance</b>					
<b>Item 14A - Crew Labor and Equipment</b>					
14A1	For Crew Labor and Equipment (Fixed Minimum Unit Price of \$100.00 per hour)	10.00	Hrs	\$445.00	\$4,450.00
14A2	For Survey Crew Labor and Equipment (Unit Price shall not be less than prevailing wage)		Hrs	\$200.00	\$0.00
14A3	For Vacuum Truck and Crew Labor (Fixed Minimum Unit Price of \$125.00 per hour)	8	Hrs	\$450.00	\$3,600.00
<b>Item 14B - Construction Allowance</b>					
14B1	For General Construction Allowance		LS	\$150,000.00	\$0.00
14B2	For Maintenance and Protection of Traffic (State and County Roads)	0.220	LS	\$50,000.00	\$10,980.70
<p>Location: 4401 Transit Road</p> <hr/> <p>Install: Hydrant Replacement L07B58A</p> <p>Work Order:</p> <p>Proj No: 202100233</p> <p>OWIP/EC#: 107200-007206</p>					
<b>INVOICE AMOUNT</b>				<b>\$35,190.15</b>	
Less Retention 5%				\$1,759.51	
<b>INVOICE TOTAL</b>				<b>\$33,430.64</b>	



EXISTING



PROPOSED 6" DIP HYDRANT BRANCH (40 LF)

EXISTING 6" GATE VALVE - NEW VALVE BOX

EXISTING 24" PCCP WATERMAIN

PROPOSED 45° BENDS TO BE UTILIZED FOR VERTICAL ALIGNMENT, LOCATION DETERMINED BY FIELD FIT

PROPOSED HYDRANT ASSEMBLY, SEE DETAIL SD13

PROPOSED HYDRANT SHUT-OFF VALVE, SEE DETAIL SD11 AND SD13

CUT EXISTING SIDEWALK AND RESTORE PER NYSDOT REQUIREMENTS, SEE FULL DEPTH REPAIR ROADWAY OR SIDEWALK EXCAVATIONS DETAIL

PROPOSED FULL DEPTH SELECT BACKFILL

CUT EXISTING PAVEMENT AND RESTORE PER NYSDOT REQUIREMENTS, SEE FULL DEPTH REPAIR ROADWAY OR SIDEWALK EXCAVATIONS DETAIL

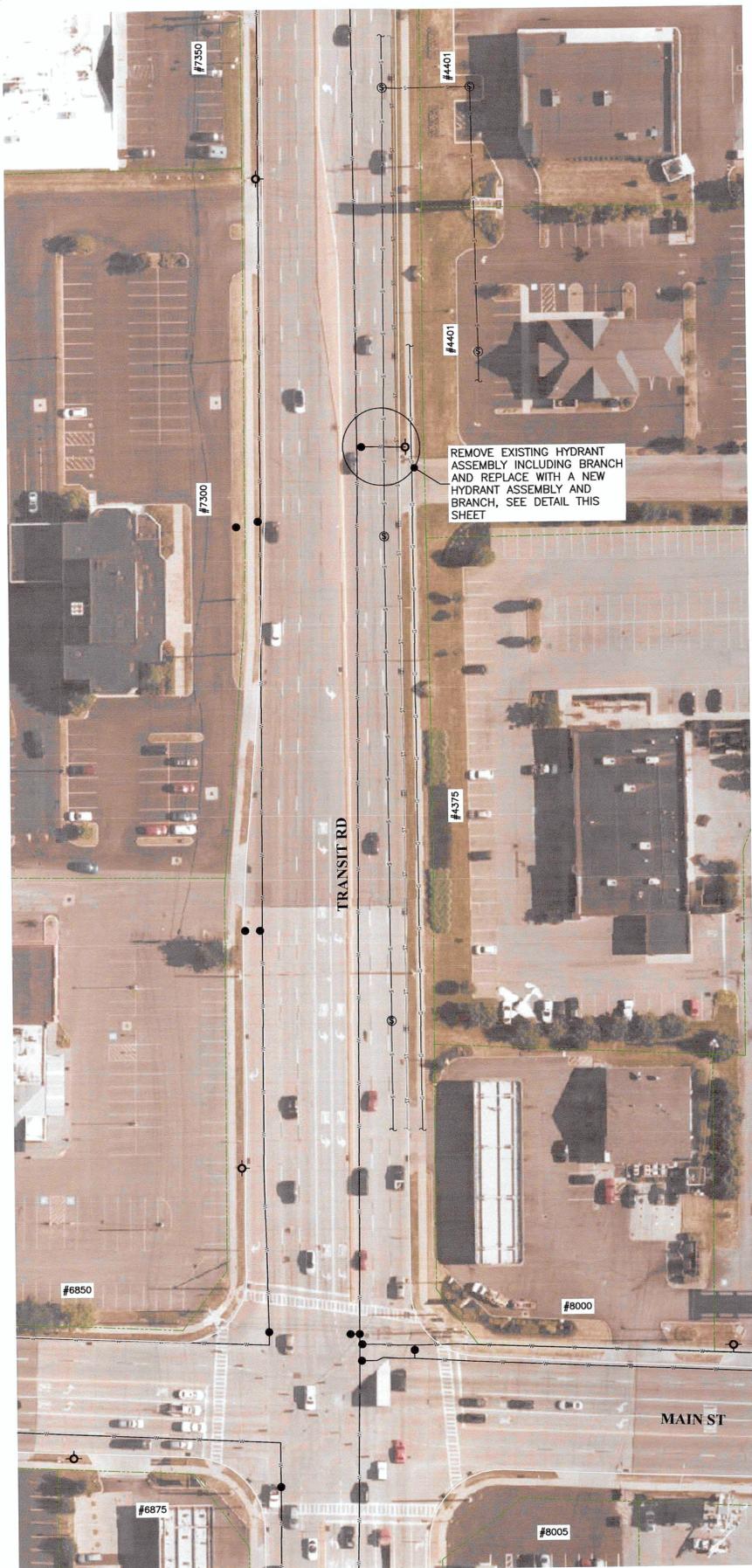
PROPOSED

# HYDRANT L07B58A REPLACEMENT

SCALE: 1" = 5'-0"

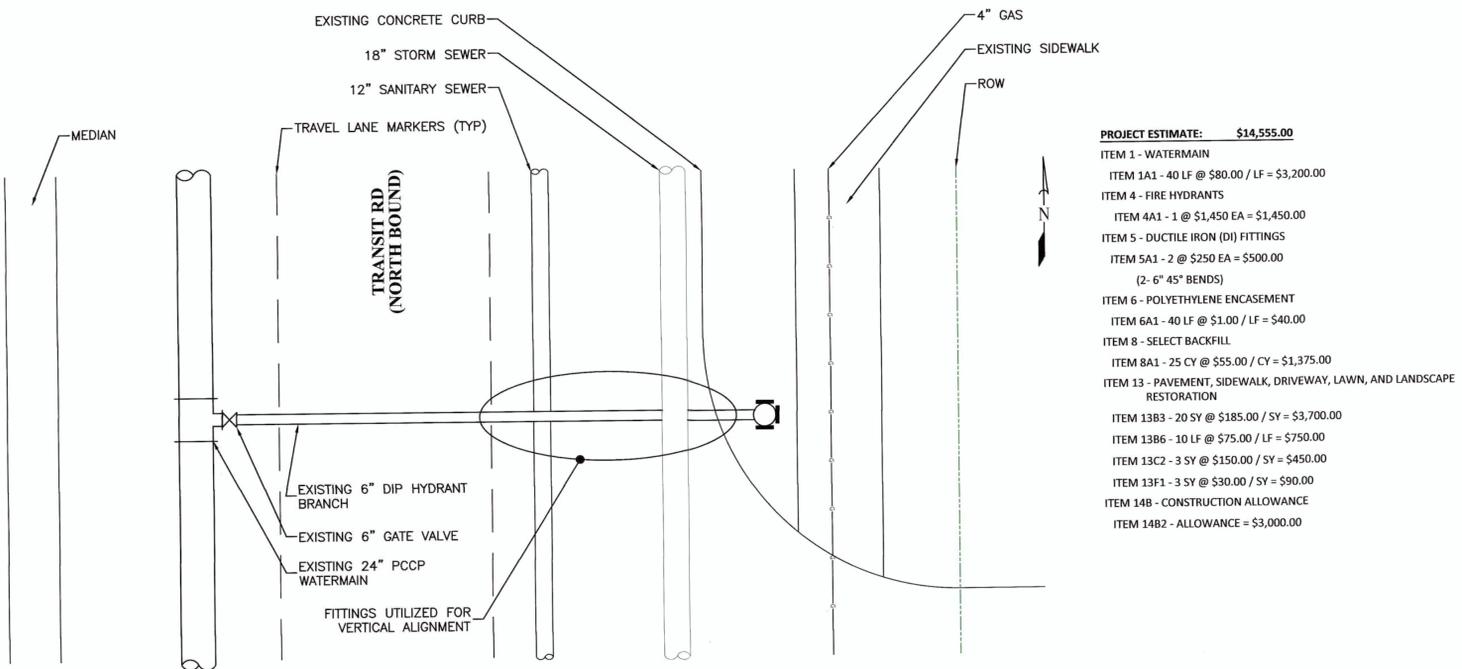
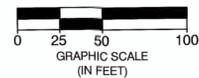




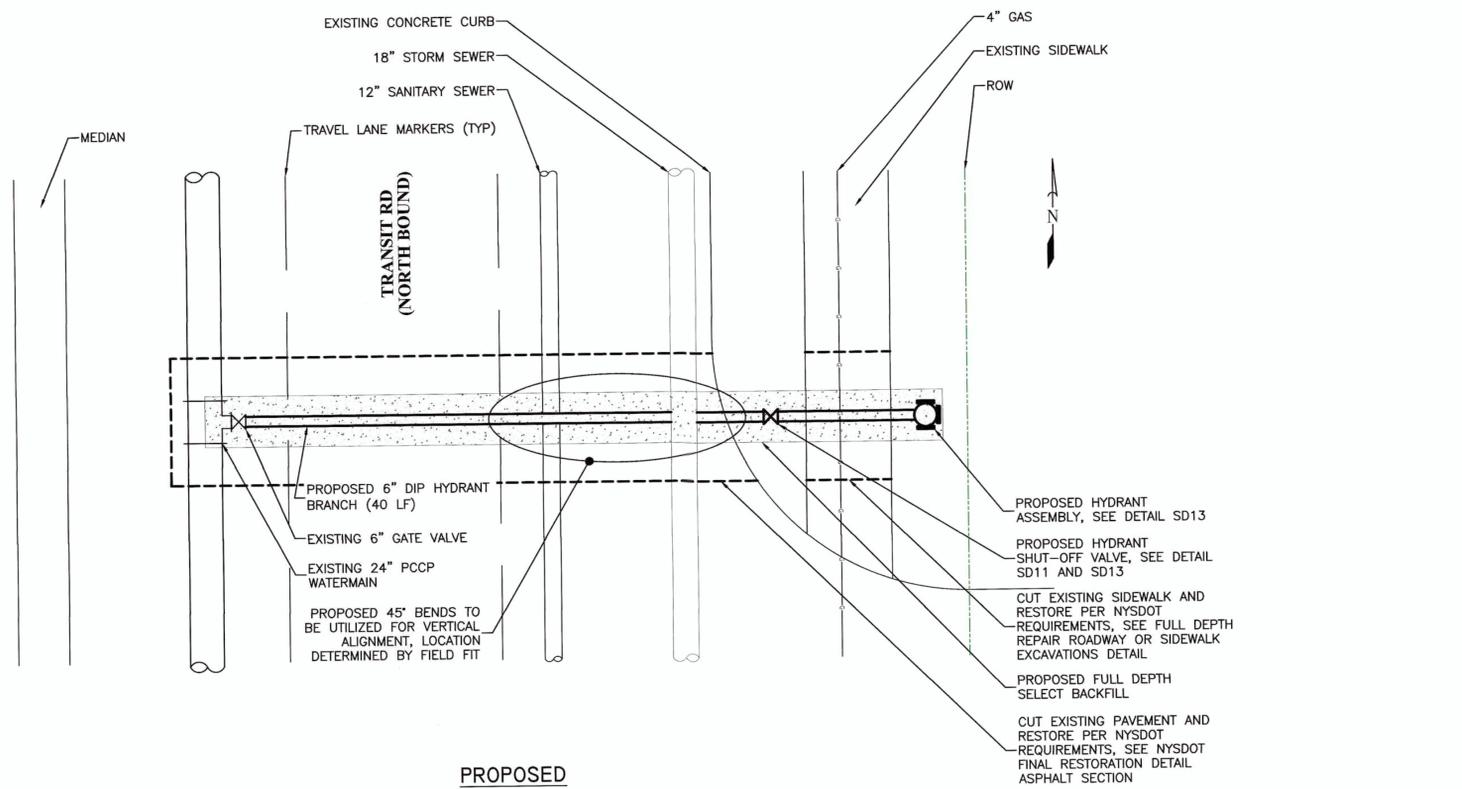


**TRANSIT ROAD PLAN**

SCALE: 1" = 50'-0"



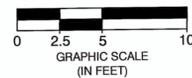
**EXISTING**



**PROPOSED**

**HYDRANT L07B58A REPLACEMENT**

SCALE: 1" = 5'-0"



**PROJECT ESTIMATE: \$14,555.00**

- ITEM 1 - WATERMAIN
- ITEM 1A1 - 40 LF @ \$80.00 / LF = \$3,200.00
- ITEM 4 - FIRE HYDRANTS
- ITEM 4A1 - 1 @ \$1,450 EA = \$1,450.00
- ITEM 5 - DUCTILE IRON (DI) FITTINGS
- ITEM 5A1 - 2 @ \$250 EA = \$500.00 (2- 6" 45° BENDS)
- ITEM 6 - POLYETHYLENE ENCASEMENT
- ITEM 6A1 - 40 LF @ \$1.00 / LF = \$40.00
- ITEM 8 - SELECT BACKFILL
- ITEM 8A1 - 25 CY @ \$55.00 / CY = \$1,375.00
- ITEM 13 - PAVEMENT, SIDEWALK, DRIVEWAY, LAWN, AND LANDSCAPE RESTORATION
- ITEM 13B3 - 20 SY @ \$185.00 / SY = \$3,700.00
- ITEM 13B6 - 10 LF @ \$75.00 / LF = \$750.00
- ITEM 13C2 - 3 SY @ \$150.00 / SY = \$450.00
- ITEM 13F1 - 3 SY @ \$30.00 / SY = \$90.00
- ITEM 14B - CONSTRUCTION ALLOWANCE
- ITEM 14B2 - ALLOWANCE = \$3,000.00

**General Notes**

- 1) ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ERIE COUNTY WATER AUTHORITY STANDARD DETAILS AND SPECIFICATIONS, ECWA PN 202100009
- 2) SEE STANDARD DETAIL GENERAL NOTES SECTION ON MISCELLANEOUS DETAILS
- 3) CONTRACTOR TO PROVIDE MAINTENANCE AND PROTECTION OF TRAFFIC THROUGHOUT CONSTRUCTION
- 4) SERVICE LOCATIONS ARE APPROXIMATIONS ONLY AND SHOULD BE FIELD CHECKED PRIOR TO CONSTRUCTION

**Legend**

- ⊙ = SANITARY MH
- ⊕ = TRAFFIC MH
- ⊗ = STORM MH
- ⊘ = CATCH BASIN
- ⊙ = UTILITY POLE
- ⊙ = FIRE HYDRANT
- = WATER VALVE
- ⊙ = TREES
- = EXISTING WATERLINE
- = NEW WATERLINE
- = SANITARY SEWER
- = STORM SEWER
- = GAS MAIN

Approved By:



Project Name

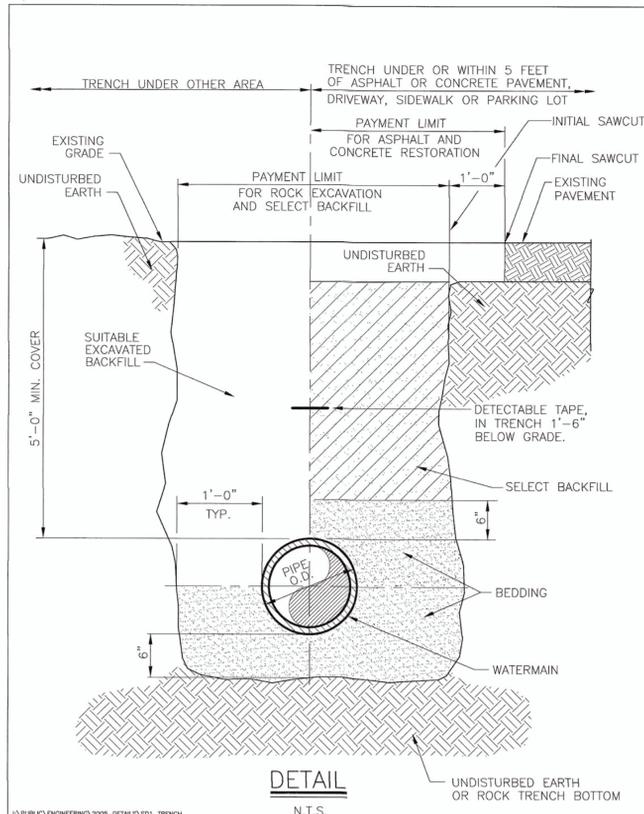
4401 TRANSIT ROAD  
HYDRANT L07B58A  
REPLACEMENT  
ECWA PN 202100233

TOWNS OF CLARENCE  
ERIE COUNTY - NEW YORK

Name TRANSIT ROAD PLAN	Sheet W-1
Date NOVEMBER 2021	Page: 1 of 4
Scale: AS SHOWN	File Name: 202100233 - HYDRANT REPLACEMENT
Drawn/Revised By: WWW	



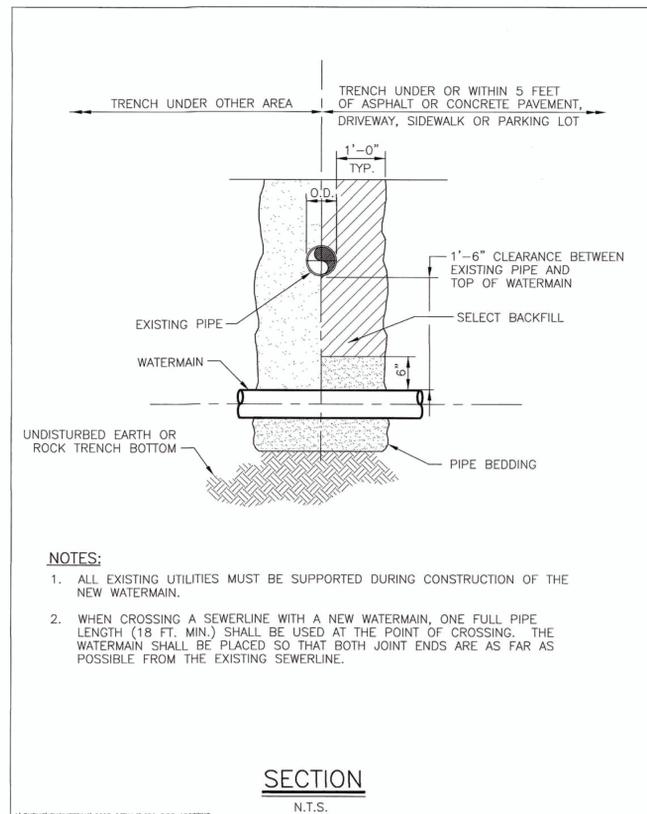
ALL UTILITIES ARE BASED ON BEST GIVEN INFORMATION AND ARE APPROXIMATE ONLY. SOME UTILITIES MAY NOT BE SHOWN. CONTRACTOR SHALL FIELD VERIFY ALL UTILITIES DURING EXCAVATION BY CONTACTING UFPO PRIOR TO PERFORMING ANY EARTHWORK.



ERIC COUNTY WATER AUTHORITY BUFFALO, NEW YORK

STANDARD DETAIL TRENCH THROUGH 12-INCH DIAMETER WATERMAIN

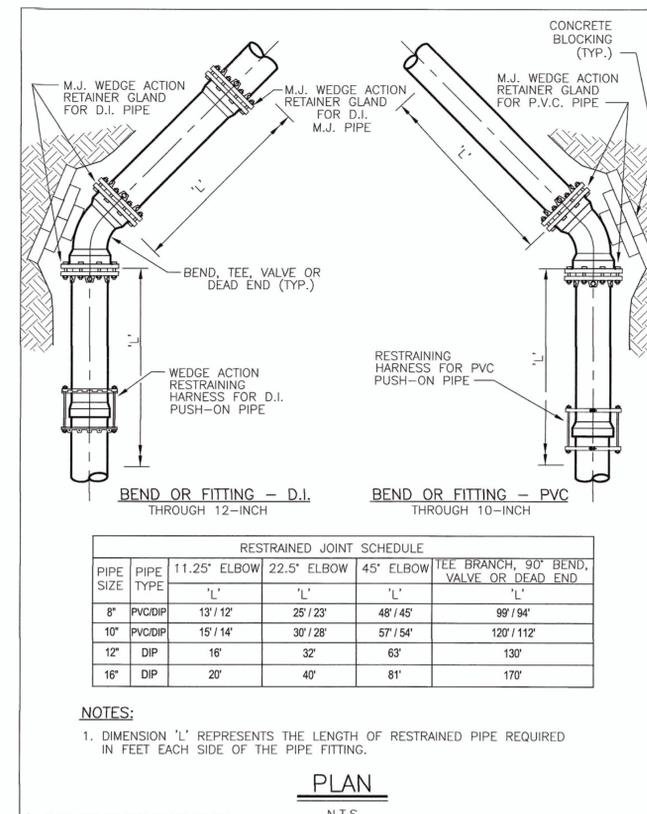
DWG. NO. SD1  
DATE 4/28/92  
REVISED 10/05



ERIC COUNTY WATER AUTHORITY BUFFALO, NEW YORK

STANDARD DETAIL PIPE CROSSING

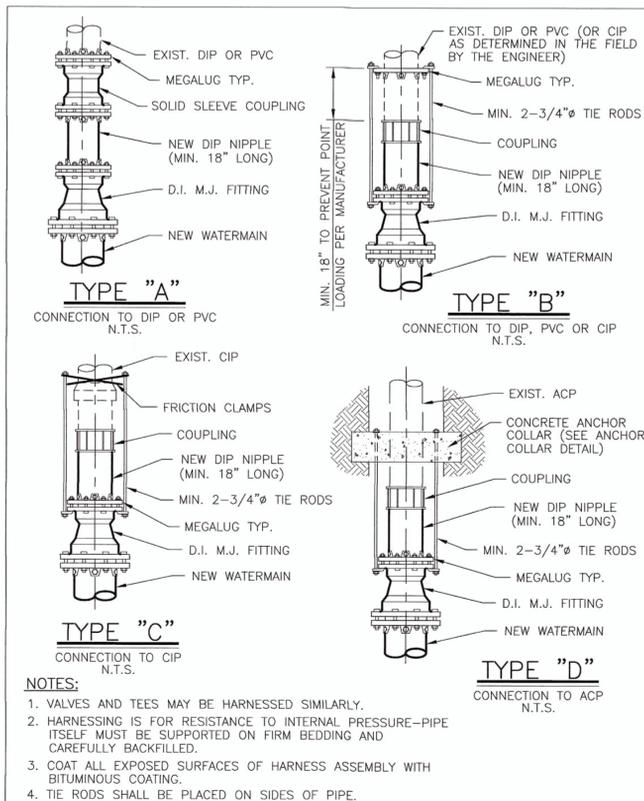
DWG. NO. SD2  
DATE 4/28/92  
REVISED 10/05



ERIC COUNTY WATER AUTHORITY BUFFALO, NEW YORK

STANDARD DETAIL RESTRAINED JOINT SCHEDULE

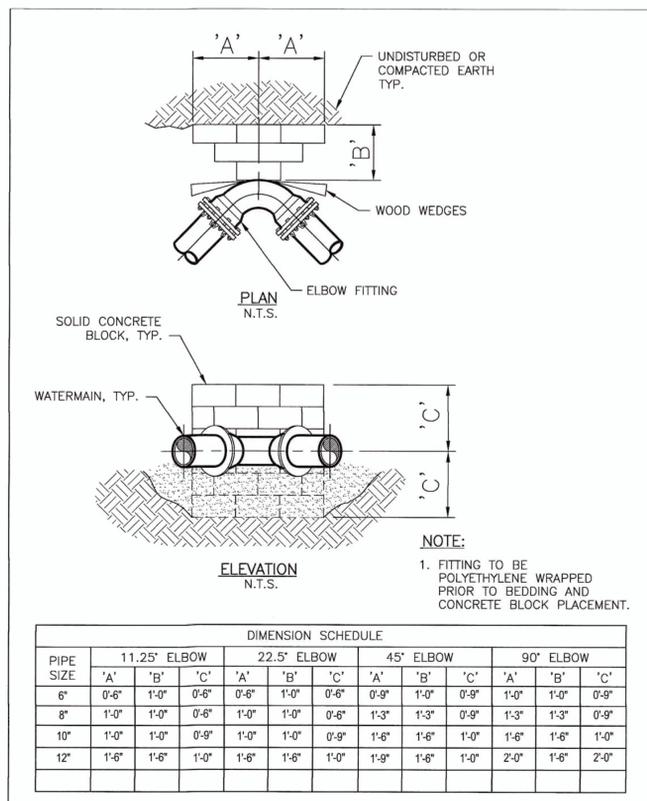
DWG. NO. SD4  
DATE 4/28/92  
REVISED 10/05



ERIC COUNTY WATER AUTHORITY BUFFALO, NEW YORK

STANDARD DETAIL TYPICAL CONNECTION TO EXISTING WATERMAIN THROUGH 12-INCH DIAMETER WATERMAIN

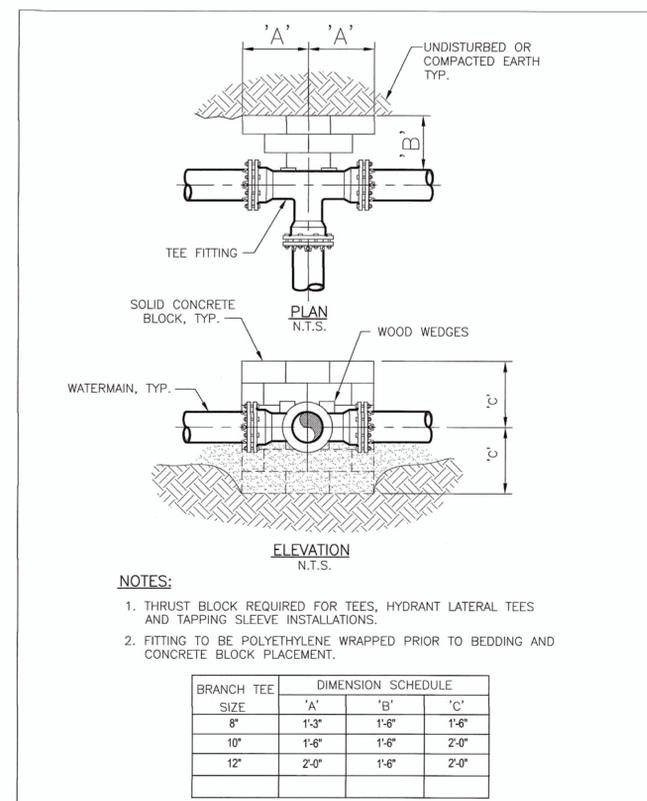
DWG. NO. SD5  
DATE 3/05  
REVISED 10/05



ERIC COUNTY WATER AUTHORITY BUFFALO, NEW YORK

STANDARD DETAIL THRUST BLOCKS FOR ELBOW FITTING

DWG. NO. SD6  
DATE 4/28/92  
REVISED 10/05



ERIC COUNTY WATER AUTHORITY BUFFALO, NEW YORK

STANDARD DETAIL THRUST BLOCKS FOR TEE OR "DEAD END" FITTING

DWG. NO. SD7  
DATE 4/28/92  
REVISED 10/05

General Notes

Legend

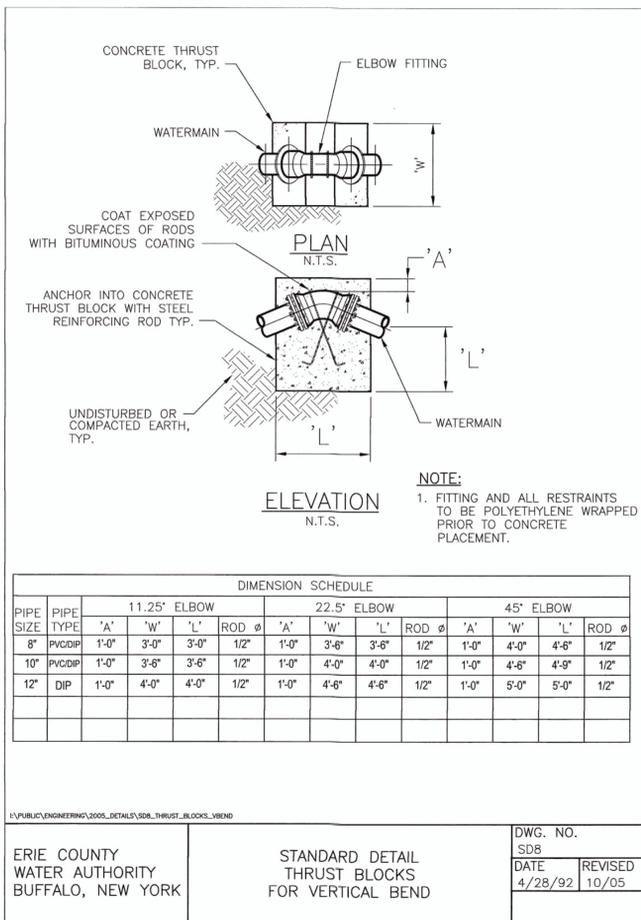
Approved By:

ERIC COUNTY WATER AUTHORITY  
3030 UNION RD.  
CHEEKTOWAGA NY, 14227

Project Name  
4401 TRANSIT ROAD  
HYDRANT L07B58A  
REPLACEMENT  
ECWA PN 202100233  
TOWNS OF CLARENCE  
ERIC COUNTY - NEW YORK

MISCELLANEOUS DETAILS  
Name  
Date  
NOVEMBER 2021  
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202100233 - HYDRANT  
REPLACEMENT



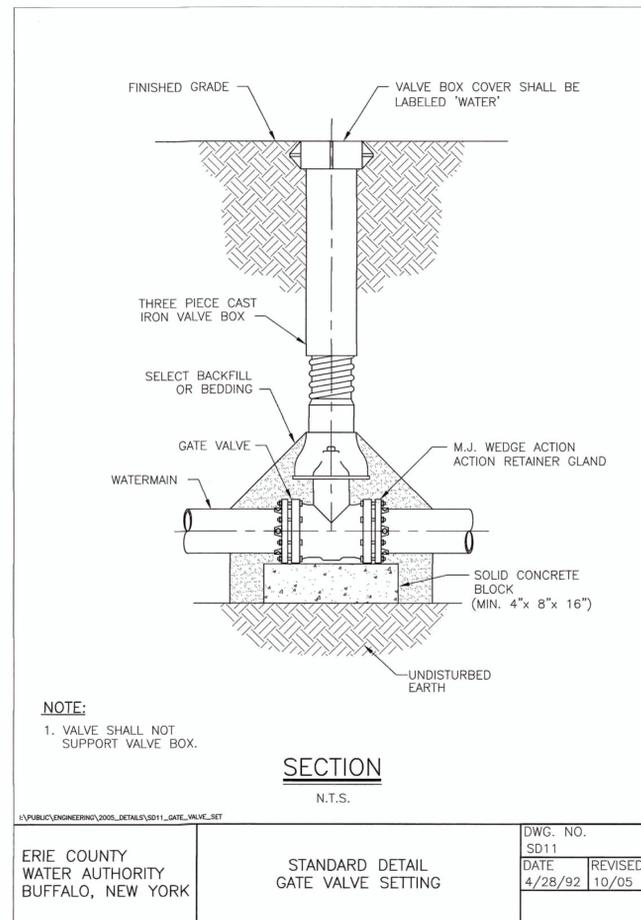
DIMENSION SCHEDULE													
PIPE SIZE	PIPE TYPE	11.25' ELBOW				22.5' ELBOW				45' ELBOW			
		'A'	'W'	'L'	ROD Ø	'A'	'W'	'L'	ROD Ø	'A'	'W'	'L'	ROD Ø
8"	PVC-DIP	1'-0"	3'-0"	3'-0"	1/2"	1'-0"	3'-6"	3'-6"	1/2"	1'-0"	4'-0"	4'-0"	1/2"
10"	PVC-DIP	1'-0"	3'-6"	3'-6"	1/2"	1'-0"	4'-0"	4'-0"	1/2"	1'-0"	4'-6"	4'-9"	1/2"
12"	DIP	1'-0"	4'-0"	4'-0"	1/2"	1'-0"	4'-6"	4'-6"	1/2"	1'-0"	5'-0"	5'-0"	1/2"

ERIE COUNTY WATER AUTHORITY BUFFALO, NEW YORK	STANDARD DETAIL THRUST BLOCKS FOR VERTICAL BEND	DWG. NO. SD8
		DATE 4/28/92
		REVISED 10/05

**NOTES**

- All elevations refer to USGS NAVD83 datum.
- The CONTRACTOR shall obtain necessary permits and furnish copies to the ENGINEER prior to commencing work.
- The CONTRACTOR'S work area shall be confined to the limits of the right-of-ways and easements. The CONTRACTOR shall obtain any additional easements or work releases should the CONTRACTOR require additional area to accommodate his operations.
- The CONTRACTOR shall provide maintenance and protection of traffic in accordance with the Erie County Highway Department standards and the NYS DOT Manual of Uniform Traffic Control Devices.
- The locations and depths of existing underground utilities as shown on the plans and profiles are approximate. Other underground utilities not shown may be encountered. The CONTRACTOR shall perform test pits to verify the location and elevation of utilities at interconnections and crossings as shown, directed, or required. The CONTRACTOR shall excavate in advance of the pipe laying operation and expose all existing underground utilities to prevent damage during construction and to determine required changes in grade necessary to install the watermain to avoid conflicts.
- The CONTRACTOR shall install those measures required to limit erosion of areas disturbed by the work. Clearing shall be performed on an as-needed basis, phased to reduce erosion and visual impact.
- Blasting will not be permitted.
- No more than one connection may be made to any existing watermain prior to testing, disinfection, and approval of the Waterline Installation Completed Works Approval Report(s) by the Erie County Water Authority and the Erie County Health Department.
- The Erie County Water Authority shall only operate existing valves and fire hydrants, including newly installed valves and fire hydrants that have been placed into service. The CONTRACTOR is advised that watertight conditions may not exist when existing valves are closed.
- The CONTRACTOR shall have all equipment, manpower, and materials required on site and ready for use prior to commencing any shut-down or removing any existing facilities from service. The CONTRACTOR shall notify all affected customers in writing of any shut-down at least 48 hours in advance. The CONTRACTOR shall notify the appropriate fire stations 48 hours in advance prior to taking any fire hydrants out of service. Any fire hydrants not in service shall be bagged in burlap or plastic. Any shut-down shall be limited to 4 consecutive hours. It may be necessary to schedule shut-downs at night, weekends, or other off hours so as to not affect schools, businesses or other customers, as determined by the ENGINEER. Shut-down requests shall be submitted to the Erie County Water Authority a minimum of 5 business days in advance of the requested shut-down date.

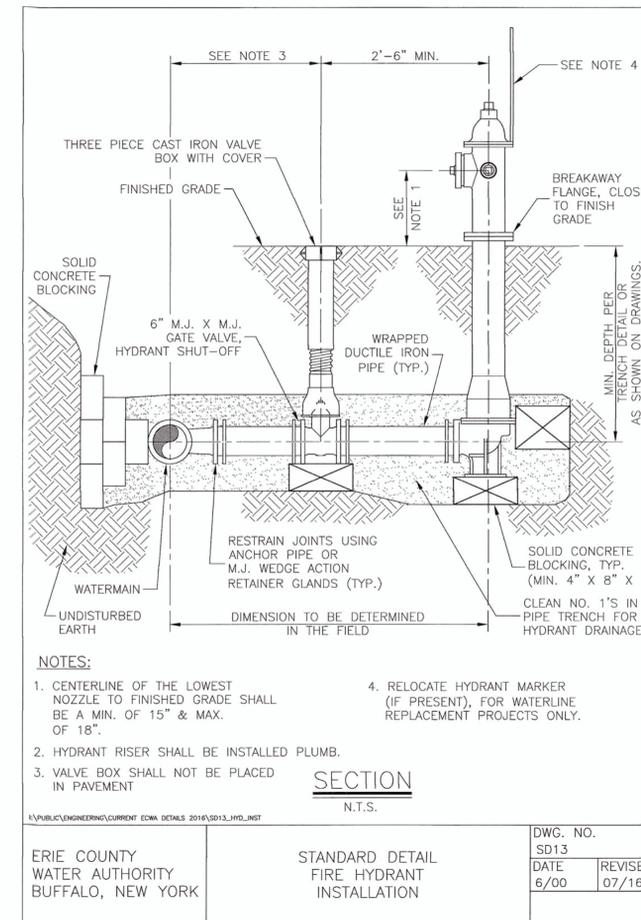
ERIE COUNTY WATER AUTHORITY BUFFALO, NEW YORK	STANDARD DETAIL GENERAL NOTES	DWG. NO. SD29
		DATE 3/05
		REVISED 7/17



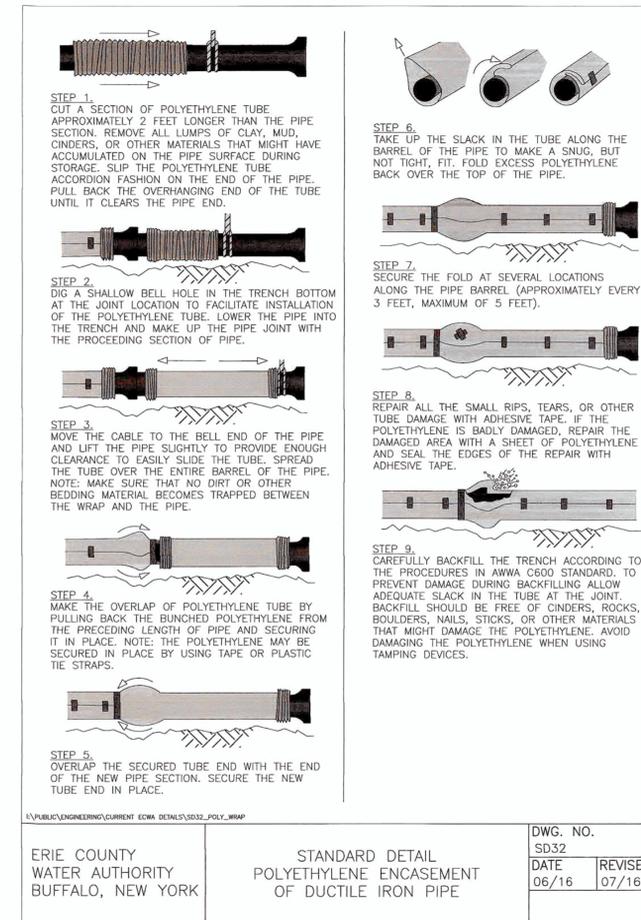
ERIE COUNTY WATER AUTHORITY BUFFALO, NEW YORK	STANDARD DETAIL GATE VALVE SETTING	DWG. NO. SD11
		DATE 4/28/92
		REVISED 10/05

- All watermain piping shall be installed with a minimum of 5'-0" of cover.
- All watermain piping shall be installed with a minimum of 1'-6" of vertical clearance and 10'-0" of horizontal clearance from sanitary and storm piping, measured from the outside of the pipes at the point of crossing.
- If the material at the design grade is unsuitable as determined by the ENGINEER, the CONTRACTOR, when ordered in writing, shall excavate additional material to the depth necessary and shall backfill to the proposed grade with the select granular material.
- The installation of 90 degree bends in the watermain is not allowed, unless approved by the Erie County Water Authority.
- Thrust restraint for watermain piping through 12-inch diameter shall consist of thrust blocks and pipe joint restraint.
- The CONTRACTOR shall notify the owner of any utility pole in advance of any excavation work that will take place within 5'-0" of the utility pole. The CONTRACTOR shall include the cost of temporary pole support in the appropriate bid item. Where utility poles are required to be supported during construction, the CONTRACTOR shall make all necessary arrangements with the utility company.
- If materials are encountered during the construction that are suspected of being contaminated, the CONTRACTOR shall immediately notify the NYSDEC for direction regarding testing, separation, containment, and disposal procedures.
- Existing fire hydrants removed during construction and not reinstalled as part of the work shall be scheduled and returned to the Erie County Water Authority Service Center, 3030 Union Road, Cheektowaga, New York 14227.
- The CONTRACTOR shall cold patch all trench excavations in traveled areas including roads, driveways, sidewalks, and parking areas.
- The CONTRACTOR shall not restrict access for school buses or any emergency vehicles.
- The use of existing fire hydrants for any reason is prohibited without prior approval of the Erie County Water Authority. This includes newly installed fire hydrants that have been placed into service.
- The CONTRACTOR shall submit procedures for testing and disinfection of the watermain to the ENGINEER for review prior to the start of testing.
- The CONTRACTOR shall be present and assist in the Final Walk inspection. The CONTRACTOR shall provide sufficient personnel and equipment to demonstrate to the ENGINEER that all valves, fire hydrants, and curb stops operate as required.

ERIE COUNTY WATER AUTHORITY BUFFALO, NEW YORK	STANDARD DETAIL GENERAL NOTES	DWG. NO. SD30
		DATE 3/05
		REVISED 7/17



ERIE COUNTY WATER AUTHORITY BUFFALO, NEW YORK	STANDARD DETAIL FIRE HYDRANT INSTALLATION	DWG. NO. SD13
		DATE 6/00
		REVISED 07/16



ERIE COUNTY WATER AUTHORITY BUFFALO, NEW YORK	STANDARD DETAIL POLYETHYLENE ENCASEMENT OF DUCTILE IRON PIPE	DWG. NO. SD32
		DATE 06/16
		REVISED 07/16

**General Notes**

**Legend**

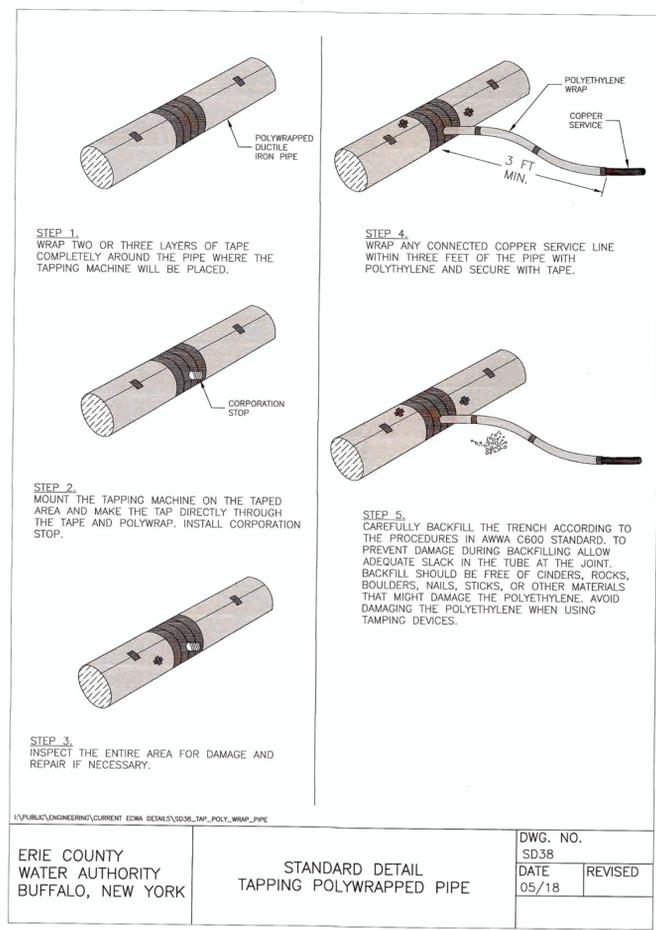
Approved By:

**ERIE COUNTY WATER AUTHORITY**  
3030 UNION RD.  
CHEEKTOWAGA NY, 14227

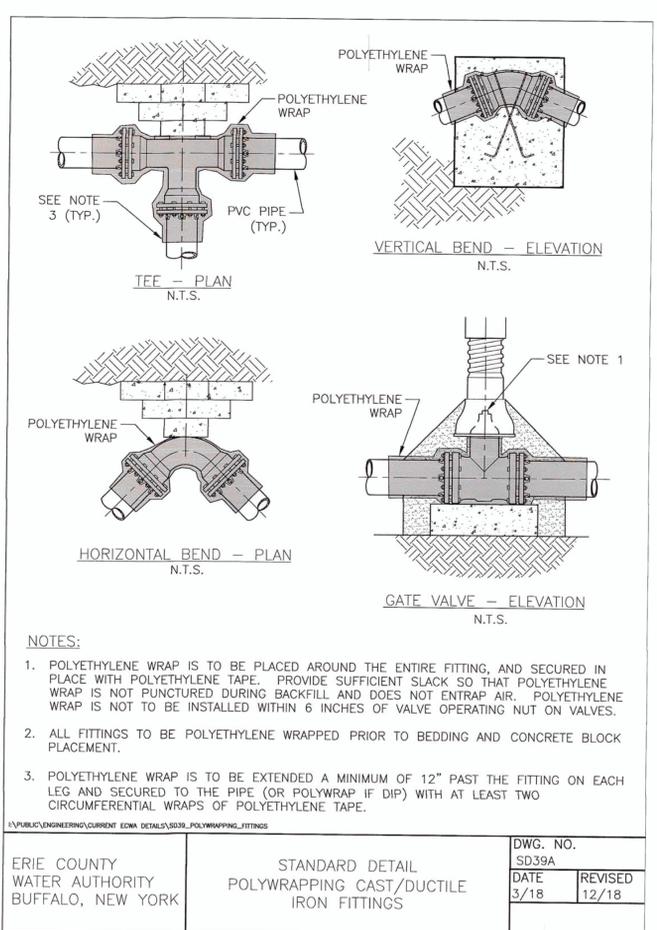
**Project Name**  
4401 TRANSIT ROAD  
HYDRANT L07B58A  
REPLACEMENT  
ECWA PN 202100233

TOWNS OF CLARENCE  
ERIE COUNTY - NEW YORK

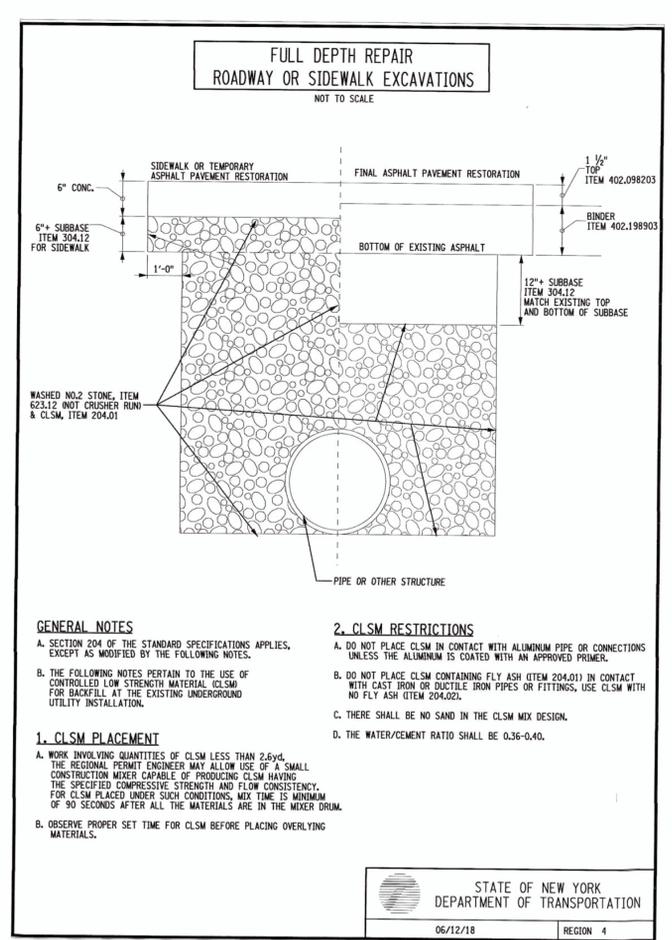
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Date NOVEMBER 2021	<b>W-3</b>
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Drawn/Revised By: WWW	File Name: 202100233 - HYDRANT REPLACEMENT



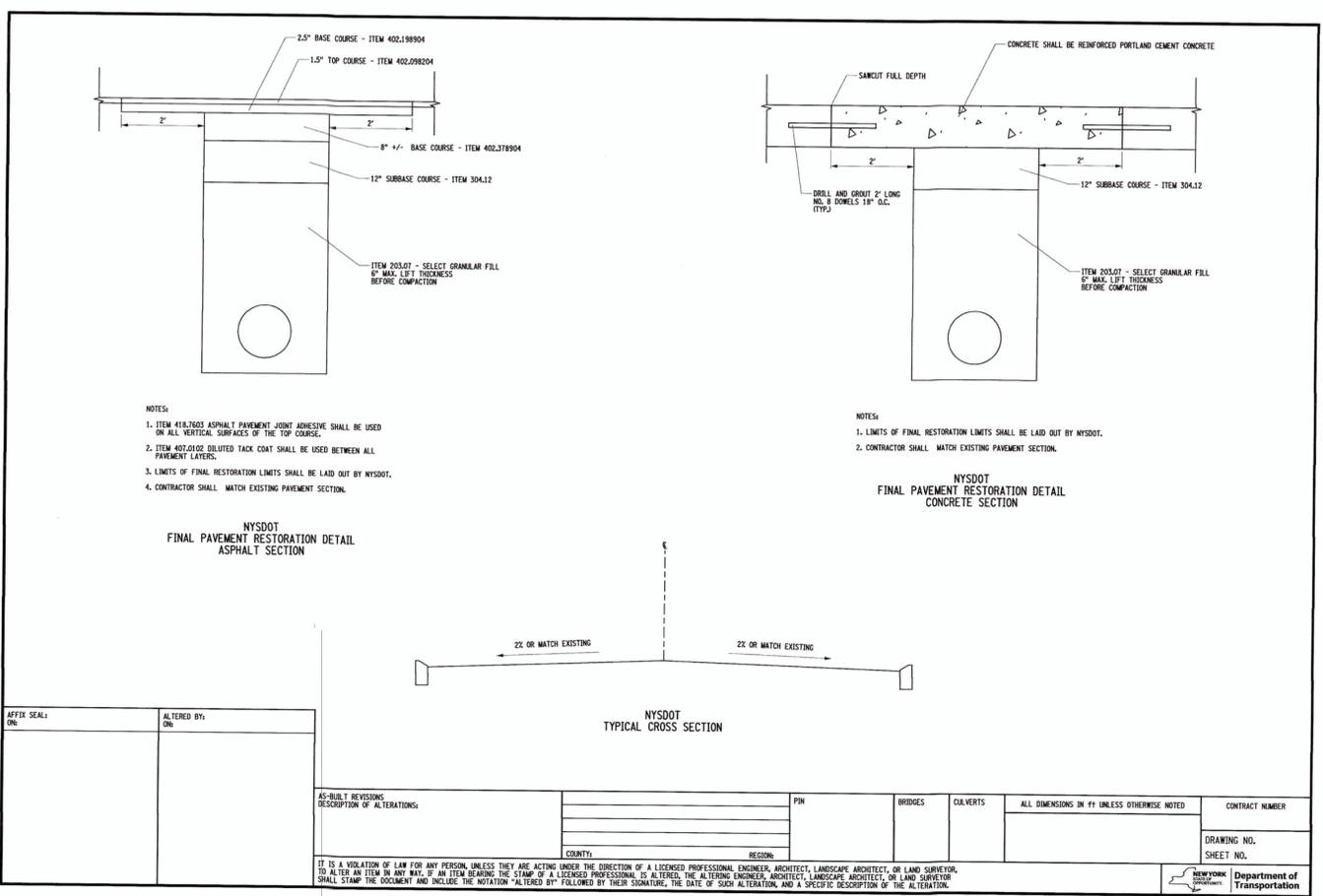
ERIE COUNTY WATER AUTHORITY BUFFALO, NEW YORK	STANDARD DETAIL TAPPING POLYWRAPPED PIPE	DWG. NO. SD38	REVISED
		DATE 05/18	



ERIE COUNTY WATER AUTHORITY BUFFALO, NEW YORK	STANDARD DETAIL POLYWRAPPING CAST/DUCTILE IRON FITTINGS	DWG. NO. SD39A	REVISED
		DATE 3/18	12/18



STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION	
06/12/18	REGION 4



AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	PIN	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER
					DRAWING NO.
	COUNTY:	REGION:			SHEET NO.
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY, IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED. THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.					

General Notes

Legend

Approved By:

ERIE COUNTY WATER AUTHORITY  
3030 UNION RD.  
CHEEKTOWAGA NY, 14227

Project Name  
4401 TRANSIT ROAD  
HYDRANT L07B58A  
REPLACEMENT  
ECWA PN 202100233  
TOWNS OF CLARENCE  
ERIE COUNTY - NEW YORK

MISCELLANEOUS DETAILS  
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202100233 - HYDRANT REPLACEMENT

**ERIE COUNTY WATER AUTHORITY  
CONSTRUCTION AUTHORIZATION**

Project No. 202100244  
Budget No. \_\_\_\_\_

Authorization No.: EC 7207  
Date: 10/18/21  
Inputted By/Date: \_\_\_\_\_

October 2021 Estimate Starting Date  
November 2021 Estimate Complete Date  
yes X no Retirement Involved  
Public Street  
X Private Right of Way  
On Authority's Prop  
Tax Districts \_\_\_\_\_  
Name of Grantor of Easement \_\_\_\_\_  
Date of Easement \_\_\_\_\_

**TITLE OF PROJECT:** Veterans Park Tank  
Drain Improvements.

**CLASS OF MAIN INSTALLATION:**  
X System Betterment  
Bldr/Cont/Dev. Agree.  
Owner Occupant Cont.  
Special Revenue Cont.

**DETAILED DESCRIPTION AND PURPOSE:**  
Veterans Park Tank Drain Improvements, 747  
Niagara St. in the City of Tonawanda.  
To improve tank drain rate.

**ESTIMATE COST**

(1) Total Est. Cost \$ 24,205.32  
(2) \_\_\_\_\_ Meters and Service @ \$ \_\_\_\_\_  
(3) Removal Cost Less Salvage \$ \_\_\_\_\_  
(4) Gross Investment \$ 24,205.32

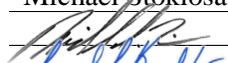
**DEDUCT**

(5) Const. Advance \$ \_\_\_\_\_  
(6) Service Conn. \$ \_\_\_\_\_  
(7) Refunds \$ \_\_\_\_\_  
(8) Net Auth. Invest. \$ 24,205.32

**BUDGETARY DATA**

(9) Tot. Budget Expnd. \$ \_\_\_\_\_  
(10) This Authorization \$ \_\_\_\_\_  
(11) Pre Approved \$ \_\_\_\_\_  
(12) Tot. Apvl. To Date \$ \_\_\_\_\_  
(13) Bal. Budget Expnd. \$ \_\_\_\_\_

**APPROVALS**

Preparation Michael Stoklosa  
Dir. of Dist.  2/27/2026  
Exec. Engr.  2/27/2026  
Admn. Director \_\_\_\_\_  
Legal Dept. \_\_\_\_\_  
Acct. Dept. \_\_\_\_\_

**ESTIMATED EARNINGS & RETURNS**

**ESTIMATED INCREASE IN REVENUES**

(14) Customers @ \$ \_\_\_\_\_  
\$ \_\_\_\_\_  
(15) Hydrants @ \$ \_\_\_\_\_  
\$ \_\_\_\_\_

**EST. SAVINGS IN OPERATING EXPENSES**

(16) \$ \_\_\_\_\_  
(17) Gross Increase in Earnings \$ \_\_\_\_\_

**REVENUE DEDUCTIONS**

(18) Operating Exp. \_\_\_\_\_ % \$ \_\_\_\_\_  
(19) Depreciation \$ \_\_\_\_\_  
(20) Total Deductions \$ \_\_\_\_\_  
(21) Net Income Loss \$ \_\_\_\_\_  
(22) % Return on Investment \_\_\_\_\_  
(21) divided by 8) \_\_\_\_\_ %

**RESOLUTION APPROVING**

Adopted \_\_\_\_\_  
Item No. \_\_\_\_\_

**KANDEY COMPANY INC. - Project No. K2175**  
**ECWA WATER DISTRIBUTION SYSTEM REPLACEMENTS CONTRACT # 202100009**

Attn: Bill Wheeler

**K2175-5**

ITEM NO.	DESCRIPTION	QTY	UM	BILLING	TOTAL
<b>Item 1 - Watermain</b>					
<b>Item 1A - 4-inch to 8-inch Watermain (PVC or DIP)</b>					
1A1	Installing 4-inch to 8-inch Watermain, 6-feet or less of cover		LF	\$80.00	\$0.00
1A2	For installing 4-inch to 8-inch Watermain, greater than 6-feet of cover		LF	\$95.00	\$0.00
<b>Item 1B - 10-inch to 12-inch Watermain (PVC or DIP)</b>					
1B1	For installing 10-inch to 12-inch Watermain, 6-feet or less of cover	10.00	LF	\$90.00	\$900.00
1B2	For installing 10-inch to 12-inch Watermain, greater than 6-feet of cover	8.00	LF	\$110.00	\$880.00
<b>Item 1C - High Density Polyethylene (HDPE) - HDD USE ONLY</b>					
1C1	F&I 10-inch DR9 DIPS (HDPE) Watermain for 8-inch watermain supply		LF	\$44.00	\$0.00
1C2	F&I 12-inch DR9 DIPS (HDPE) Watermain for 10-inch watermain supply		LF	\$55.00	\$0.00
1C3	F&I 16-inch DR9 DIPS (HDPE) Watermain for 12-inch watermain supply		LF	\$100.00	\$0.00
<b>Item 2 - Valves</b>					
<b>Item 2A - Gate Valves</b>					
2A1	For installing 4-inch to 8-inch Gate Valve		Ea	\$3,500.00	\$0.00
2A2	For installing 10-inch to 12-inch Gate Valve		Ea	\$3,800.00	\$0.00
<b>Item 2B - Butterfly Valves</b>					
2B2 2B1	For installing 12-inch Butterfly Valve	1.00	Ea	\$4,000.00	\$4,000.00
<b>Item 2C - Air Release Valve</b>					
2C1	For furnishing and installing Air Release Valve with Concrete Chamber		Ea	\$5,000.00	\$0.00
2C2	For furnishing and installing Manually Operated Air Release Assembly		Ea	\$3,000.00	\$0.00
2D1	For Existing Valve Abandonment - Complete (All Sizes)		Ea	\$1,200.00	\$0.00
<b>Item 3 - Existing Watermain Connections (Interconnections)</b>					
<b>Item 3A - Inline Connection</b>					
3A1	For 4-inch to 8-inch Inline Connection - Complete		Ea	\$2,500.00	\$0.00
3A2	For 10-inch to 12-inch Inline Connection - Complete	1.00	Ea	\$3,000.00	\$3,000.00
<b>Item 3B - Tapping Sleeve and Valve (Hot Tap)</b>					
3B1	For installing 4-inch to 8-inch Tapping Sleeve and Valve		Ea	\$5,000.00	\$0.00
3B2	For installing 10-inch to 12-inch Tapping Sleeve and Valve - Complete		Ea	\$5,000.00	\$0.00
<b>Item 3C - Cut-in Tee with Valve Cluster</b>					
3C1	For installing 4-inch to 8-inch Cut-in Tee with Valve Cluster - Complete		Ea	\$5,300.00	\$0.00
3C2	For installing 10-inch to 12-inch Cut-in Tee with Valve Cluster - Complete		Ea	\$5,300.00	\$0.00
<b>Item 4 - Fire Hydrants</b>					
<b>Item 4A - New Fire Hydrant Assembly</b>					
4A1	For installing New Fire Hydrant Assembly - Complete		Ea	\$1,450.00	\$0.00
<b>Item 4B - Existing Fire Hydrant Abandonment</b>					
4B1	For Existing Fire Hydrant Abandonment - Complete		Ea	\$750.00	\$0.00
<b>Item 5 - Ductile Iron (DI) Fittings</b>					
<b>Item 5A - Ductile Iron (DI) Fittings</b>					
5A1	For installing 4-inch to 8-inch Ductile Iron (DI) fittings with restraints not included under Item 3		Ea	\$250.00	\$0.00
5A2	For installing 10-inch to 12-inch Ductile Iron (DI) fittings with restraints not included under Item 3	4.00	Ea	\$300.00	\$1,200.00
5A3	For installing Joint Restraints per Section 15106 on existing 4-inch to 8-inch watermain		Ea	\$2,500.00	\$0.00
5A4	For installing Joint Restraints per Section 15106 on existing 10-inch to 12-inch watermain		Ea	\$3,000.00	\$0.00
<b>Item 6 - Polyethylene Encasement</b>					
<b>Item 6A - Polyethylene Encasement for Ductile Iron Pipe and Fitting</b>					
6A1	For installing Polyethylene Encasement for Ductile Iron Pipe and Fitting	18.00	LF	\$1.00	\$18.00
<b>Item 7 - Rock Excavation, Test Pit Excavation/Backfill, and Extra Excavation/Backfill</b>					
<b>Item 7A - Rock Excavation</b>					
7A1	For Rock Excavation per Section 02317, (Fixed Minimum Unit Price of \$50.00 per CY)		CY	\$300.00	\$0.00
<b>Item 7B - Test Pit Excavation and Backfill</b>					
7B1	For Test Pit Excavation and Backfill (Fixed Minimum Unit Price of \$200.00 per Each)		Ea	\$650.00	\$0.00
<b>Item 7C - Extra Excavation and Backfill</b>					
7C1	For Extra Excavation and Backfill		CY	\$50.00	\$0.00
<b>Item 8 - Special Backfill</b>					
<b>Item 8A - Select Backfill</b>					
8A1	For furnishing and installing Select Backfill		CY	\$55.00	\$0.00

ITEM NO.	DESCRIPTION	QTY	UM	BILLING	TOTAL
<b>Item 8B - Rip-Rap Backfill</b>					
8B1	For furnishing and installing Rip-Rap Backfill		CY	\$180.00	\$0.00
<b>Item 9 - Water Service Connections and Blow-offs</b>					
<b>Item 9A - Service Replacement/Installation</b>					
9A1	For installing 3/4-inch to 1-inch Copper Service Replacement/Installation		Ea	\$1,975.00	\$0.00
9A2	For installing 1 1/2-inch and 2-inch Copper Service Replacement/Installation	1.00	Ea	\$2,250.00	\$2,250.00
9A3	For furnishing and installing 3/4-inch to 1-inch Polyethylene Service Replacement/Installation		Ea	\$1,975.00	\$0.00
9A4	For furnishing and installing 1 1/2-inch and 2-inch Polyethylene Tubing Replacement/Installation		Ea	\$2,250.00	\$0.00
<b>Item 9B - Additional Copper and Polyethylene Tubing</b>					
9B1	For installing 3/4-inch to 1-inch Additional Copper Tubing		LF	\$15.00	\$0.00
9B2	For installing 1 1/2-inch and 2-inch Additional Copper Tubing		LF	\$25.00	\$0.00
9B3	For furnishing and installing 3/4-inch to 1-inch Additional Polyethylene Tubing		LF	\$15.00	\$0.00
9B4	For furnishing and installing 1 1/2-inch and 2-inch Additional Polyethylene Tubing		LF	\$25.00	\$0.00
<b>Item 9C - Blow-off Assemblies</b>					
9C1	For installing Permanent 2-inch Blowoff Assembly		Ea	\$500.00	\$0.00
9C2	For installing Temporary 2-inch Blowoff Assembly		Ea	\$250.00	\$0.00
9C3	For installing Permanent 4-inch Blowoff Assembly		Ea	\$1,000.00	\$0.00
9C4	For installing Temporary 4-inch Blowoff Assembly		Ea	\$750.00	\$0.00
9C5	For installing Permanent 8-inch Blowoff Assembly		Ea	\$1,500.00	\$0.00
<b>Item 10 - Casing Pipe</b>					
<b>Item 10 - Trenchless Casing Pipe Installation</b>					
10A1	For furnishing and installing 18-inch Diameter Casing Pipe for 8-inch Carrier Pipe		LF	\$400.00	\$0.00
10A2	For furnishing and installing 20-inch Diameter Casing Pipe for 10-inch Carrier Pipe		LF	\$400.00	\$0.00
10A3	For furnishing and installing 24-inch Diameter Casing Pipe for 12-inch Carrier Pipe		LF	\$460.00	\$0.00
<b>Item 10B - Open-cut Casing Pipe Installation</b>					
10B1	For furnishing and installing 18-inch Diameter Casing Pipe for 8-inch Carrier Pipe		LF	\$120.00	\$0.00
10B2	For furnishing and installing 20-inch Diameter Casing Pipe for 10-inch Carrier Pipe		LF	\$120.00	\$0.00
10B3	For furnishing and installing 24-inch Diameter Casing Pipe for 12-inch Carrier Pipe		LF	\$150.00	\$0.00
<b>Item 10C - Additional for Trenchless Casing Pipe Installation in Rock</b>					
10C1	For Trenchless Casing Pipe Installation in Rock, 16-inch to 18-inch		LF	\$330.00	\$0.00
10C2	For Trenchless Casing Pipe Installation in Rock, 20-inch to 24-inch		LF	\$360.00	\$0.00
<b>Item 11 - Horizontal Directional Drilling (HDD)</b>					
<b>Item 11A - Horizontal Directional Drilling (HDD)</b>					
11A1	Horizontal Directional Drill for installing 4-inch to 10-inch watermain		LF	\$80.00	\$0.00
11A2	Horizontal Directional Drill for installing 12-inch to 16-inch watermain		LF	\$100.00	\$0.00
<b>Item 12 - Testing and Disinfection</b>					
<b>Item 12A - Testing and Disinfection of Water main Lengths 200-feet or Less</b>					
12A1	For Testing and Disinfection of 4-inch Watermain (includes 6-inch HDPE)		LF	\$10.00	\$0.00
12A2	For Testing and Disinfection of 6-inch Watermain (includes 8-inch HDPE)		LF	\$10.00	\$0.00
12A3	For Testing and Disinfection of 8-inch Watermain (includes 10-inch HDPE)		LF	\$10.00	\$0.00
12A4	For Testing and Disinfection of 10-inch Watermain (includes 12-inch HDPE)		LF	\$10.00	\$0.00
12A5	For Testing and Disinfection of 12-inch Watermain (includes 16-inch HDPE)		LF	\$10.00	\$0.00
<b>Item 12B - Testing and Disinfection of Water main Lengths greater than 200-feet</b>					
12B1	For Testing and Disinfection of 8-inch Watermain (includes 10-inch HDPE)		LF	\$55.00	\$0.00
12B2	For Testing and Disinfection of 10-inch Watermain (includes 12-inch HDPE)		LF	\$5.00	\$0.00
12B5	For Testing and Disinfection of 12-inch Watermain (includes 16-inch HDPE)		LF	\$5.00	\$0.00
<b>Item 13 - Pavement, Sidewalk, Driveway, Lawn, and Landscape Restoration</b>					
<b>Item 13A - Clearing and Grubbing</b>					
13A1	For Additional Clearing and Grubbing, width greater than 15-feet		SY	\$100.00	\$0.00
<b>Item 13B - Pavement Restoration</b>					
13B1	For Asphalt Pavement Restoration		SY	\$130.00	\$0.00
13B2	For Concrete Pavement Restoration		SY	\$175.00	\$0.00
13B3	For Concrete with Asphalt Top Pavement Restoration		SY	\$185.00	\$0.00
13B4	For Asphalt Shoulder Restoration		SY	\$95.00	\$0.00
13B5	For Concrete Gutter Restoration		LF	\$75.00	\$0.00
13B6	For Concrete Curb Restoration		LF	\$75.00	\$0.00
13B7	For Granite Curb Restoration		LF	\$200.00	\$0.00
13B8	For Cold Milling and Asphalt Top at 1-inch to 2-inch depth		SY	\$165.00	\$0.00
13B9	For Cold Milling and Asphalt Top at each 1-inch over 2-inch depth		SY	\$75.00	\$0.00
13B10	For Cold Patch (high performance patching material) per 3-inch depth		SY	\$50.00	\$0.00
13B11	For Traffic Loop Installation		Ea	\$3,000.00	\$0.00
<b>Item 13C - Sidewalk Restoration</b>					
13C1	For Asphalt Sidewalk Restoration		SY	\$100.00	\$0.00
13C2	For Concrete Sidewalk Restoration		SY	\$150.00	\$0.00

ITEM NO.	DESCRIPTION	QTY	UM	BILLING	TOTAL
<b>Item 13D - Driveway Restoration</b>					
13D1	For Asphalt Driveway Restoration		SY	\$100.00	\$0.00
13D2	For Concrete Driveway Restoration		SY	\$170.00	\$0.00
<b>Item 13E - Asphalt Sealant</b>					
13E1	For Asphalt Sealant for driveway and sidewalks (Fixed Minimum Unit Price\$0.50 perSY)		SY	\$5.00	\$0.00
<b>Item 13F - Lawn Restoration</b>					
13F1	For Lawn Restoration	75	SY	\$30.00	\$2,250.00
<b>Item 13G - Landscaping Restoration</b>					
13G1	For Deciduous Trees, 3-feet to 4-feet (balled)		Ea	\$450.00	\$0.00
13G2	For Deciduous Trees, 1 1/2-inch to 2-inch caliper (balled)		Ea	\$450.00	\$0.00
13G3	For Deciduous Trees, 4-inch to 4 1/2 inch caliper (balled)		Ea	\$650.00	\$0.00
13G4	For Deciduous Shrubs, 3-feet to 4-feet (bare root)		Ea	\$95.00	\$0.00
13G5	For Evergreen Trees, 5-feet to 6-feet (balled)		Ea	\$250.00	\$0.00
13G6	For Evergreen Shrubs, 2 liz-feet to 4-feet (balled)		Ea	\$250.00	\$0.00
13G7	For Repairing Damaged Trees, pruning and wrapping		Ea	\$750.00	\$0.00
13G8	For Fertilizing Existing Trees		Ea	\$200.00	\$0.00
<b>Item 14 - Crew Rate and Construction Allowance</b>					
<b>Item 14A - Crew Labor and Equipment</b>					
14A1	For Crew Labor and Equipment (Fixed Minimum Unit Price of \$100.00 per hour)	5.61	Hrs	\$445.00	\$2,496.45
14A2	For Survey Crew Labor and Equipment (Unit Price shall not be less than prevailing wage)		Hrs	\$200.00	\$0.00
14A3	For Vacuum Truck and Crew Labor (Fixed Minimum Unit Price of \$125.00 per hour)		Hrs	\$450.00	\$0.00
<b>Item 14B - Construction Allowance</b>					
14B1	For General Construction Allowance		LS	\$150,000.00	\$0.00
14B2	For Maintenance and Protection of Traffic (State and County Roads)		LS	\$50,000.00	\$0.00
<p><u>Location: Veterans Park Tank Drain</u></p> <p><u>Install:</u></p> <p><u>Work Order:</u></p> <p><u>Proj No:</u></p> <p><u>OWIP/EC#:</u></p>					
				<b>INVOICE AMOUNT</b>	<b>\$16,994.45</b>
				Less Retension 5%	\$849.72
				<b>INVOICE TOTAL</b>	<b>\$16,144.73</b>





**ERIE COUNTY WATER AUTHORITY  
CONSTRUCTION AUTHORIZATION**

Project No. 202100188  
Budget No. \_\_\_\_\_

Authorization No.: EC 7214  
Date: 11/18/21  
Inputted By/Date: \_\_\_\_\_

\_\_\_\_\_  
July 2019 Estimate Starting Date  
\_\_\_\_\_  
July 2021 Estimate Complete Date  
X yes \_\_\_\_\_ no Retirement Involved  
\_\_\_\_\_  
X Public Street  
\_\_\_\_\_  
Private Right of Way  
\_\_\_\_\_  
On Authority's Prop  
Tax Districts \_\_\_\_\_  
\_\_\_\_\_  
Name of Grantor of Easement  
\_\_\_\_\_  
Date of Easement

**TITLE OF PROJECT:** Sedgemoor Ct. & Fenwick Rd. Water System Improvements.

**CLASS OF MAIN INSTALLATION:**  
\_\_\_\_\_  
X System Betterment  
\_\_\_\_\_  
Bldr/Cont/Dev. Agree.  
\_\_\_\_\_  
Owner Occupant Cont.  
\_\_\_\_\_  
Special Revenue Cont.

**DETAILED DESCRIPTION AND PURPOSE:**  
Installation of new 8" water main at the intersection of Sedgemoor Ct. & Fenwick Rd. in the Town of Amherst.

**ESTIMATE COST**

(1) Total Est. Cost \$ 235,116.46  
(2) \_\_\_\_\_ Meters and Service @ \$ \_\_\_\_\_  
(3) Removal Cost Less Salvage \$ \_\_\_\_\_  
(4) Gross Investment \$ 235,116.46

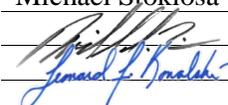
**DEDUCT**

(5) Const. Advance \$ \_\_\_\_\_  
(6) Service Conn. \$ \_\_\_\_\_  
(7) Refunds \$ \_\_\_\_\_  
(8) Net Auth. Invest. \$ 235,116.46

**BUDGETARY DATA**

(9) Tot. Budget Expnd. \$ \_\_\_\_\_  
(10) This Authorization \$ \_\_\_\_\_  
(11) Pre Approved \$ \_\_\_\_\_  
(12) Tot. Apvl. To Date \$ \_\_\_\_\_  
(13) Bal. Budget Expnd. \$ \_\_\_\_\_

**APPROVALS**

Preparation Michael Stoklosa  
Director of Dist. \_\_\_\_\_ 2/23/2026  
Exec. Engr.  2/23/2026  
Admn. Director \_\_\_\_\_  
Legal Dept. \_\_\_\_\_  
Acct. Dept. \_\_\_\_\_

**ESTIMATED EARNINGS & RETURNS**

**ESTIMATED INCREASE IN REVENUES**

(14) \_\_\_\_\_ Customers @ \$ \_\_\_\_\_  
\_\_\_\_\_  
\$ \_\_\_\_\_  
(15) \_\_\_\_\_ Hydrants @ \$ \_\_\_\_\_  
\_\_\_\_\_  
\$ \_\_\_\_\_

**EST. SAVINGS IN OPERATING EXPENSES**

(16) \_\_\_\_\_ \$ \_\_\_\_\_  
(17) Gross Increase in Earnings \$ \_\_\_\_\_

**REVENUE DEDUCTIONS**

(18) Operating Exp. \_\_\_\_\_ % \$ \_\_\_\_\_  
(19) Depreciation \$ \_\_\_\_\_  
(20) Total Deductions \$ \_\_\_\_\_  
(21) Net Income Loss \$ \_\_\_\_\_  
(22) % Return on Investment \_\_\_\_\_  
(21) divided by 8) \_\_\_\_\_ %

**RESOLUTION APPROVING**

Adopted \_\_\_\_\_  
Item No. \_\_\_\_\_

PROJECT AREA



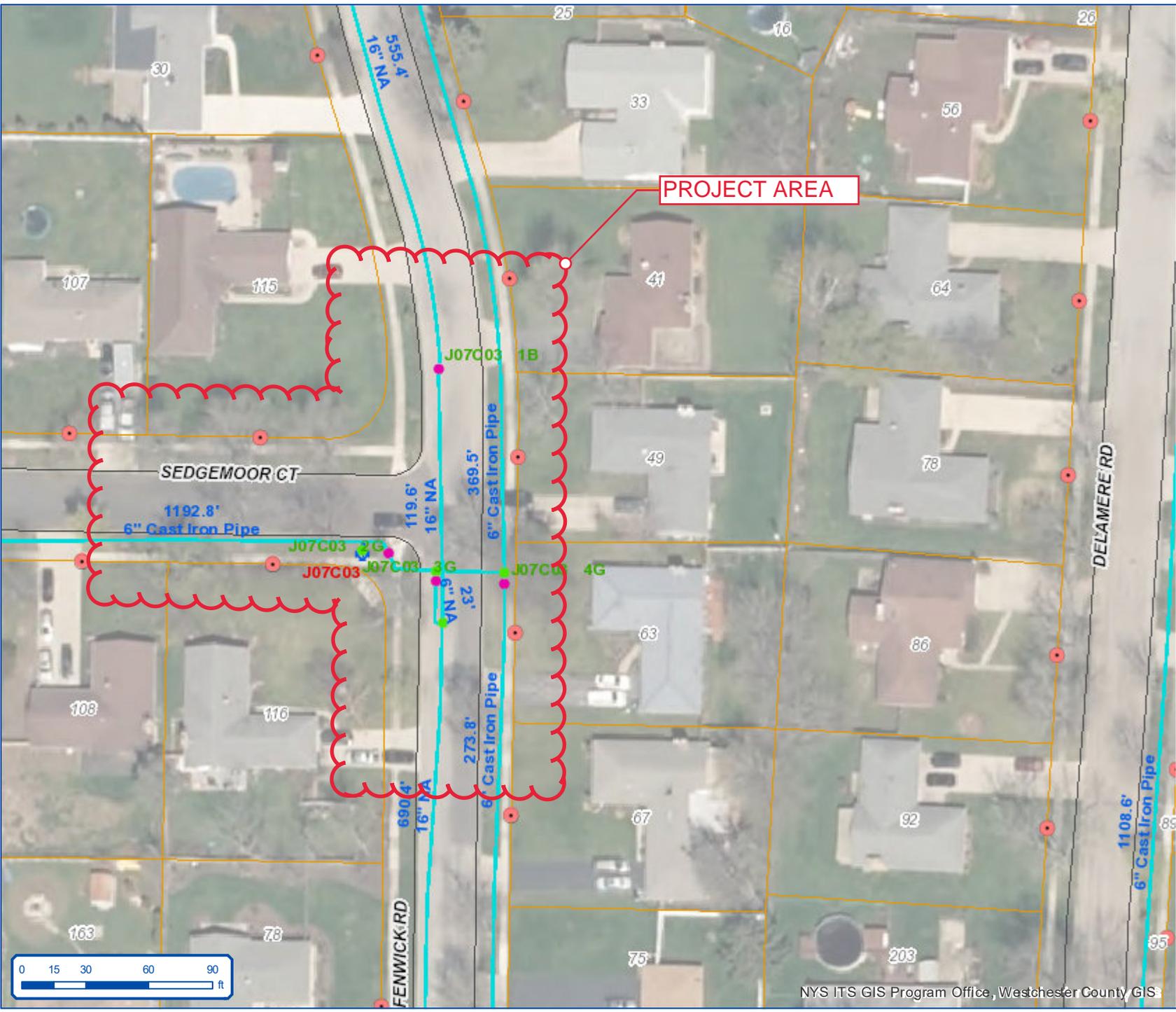
SEDGEMOOR CT AND FENWICK RD

April 8, 2021



ERIE COUNTY WATER AUTHORITY  
BUFFALO, NEW YORK

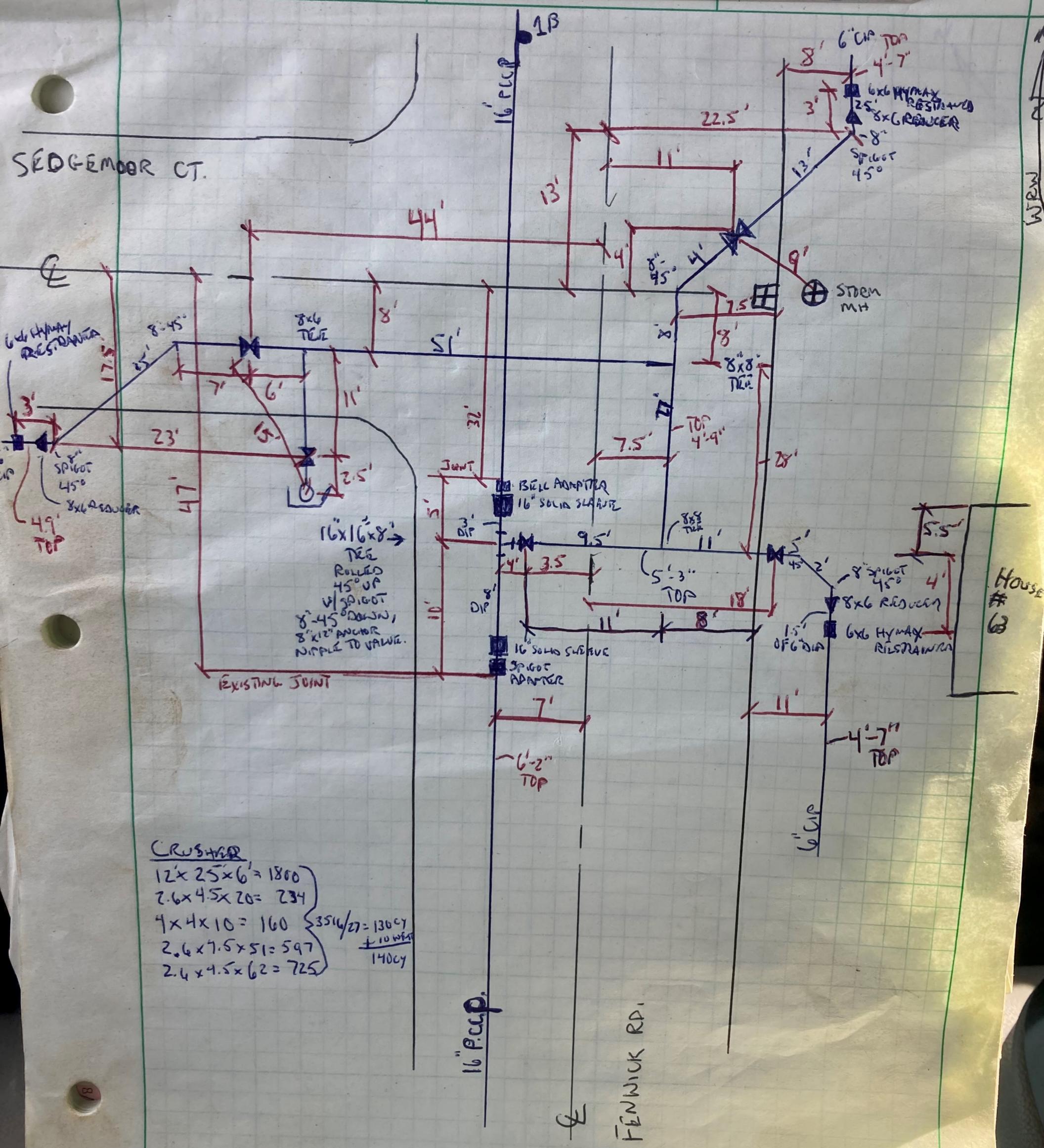
NYS ITS GIS Program Office, Westchester County GIS





SEDGEMOOR CT.

WRW  
Z02100088



CRUSHED  
 $12 \times 25 \times 6 = 1800$   
 $2.6 \times 4.5 \times 20 = 234$   
 $4 \times 4 \times 10 = 160$   
 $2.6 \times 7.5 \times 51 = 597$   
 $2.4 \times 4.5 \times 62 = 725$   
 }  $3516/27 = 130cy$   
 + 10 WFT  
 140cy

House # 63

16" P.C.P.

FENWICK RD.



# ERIE COUNTY WATER AUTHORITY

## REQUISITION ON STORES

Project No.: 20210088      Date: 07-16-21      Requisition No.: \_\_\_\_\_

Issue To: Kandey Co., Inc.

For Use In: 8" Pipe Replacement

Location: Sedgemoor and Fenwick

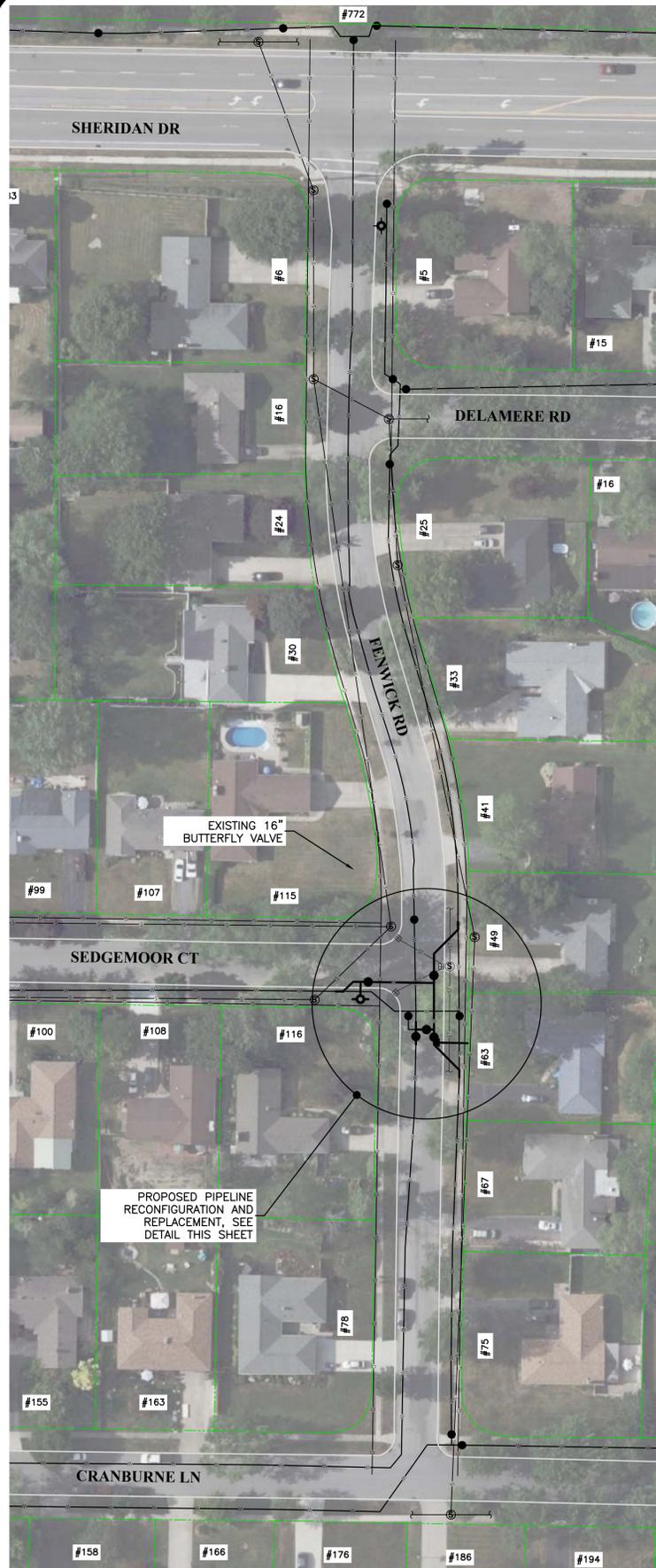
OWIP: \_\_\_\_\_ EC NO.: 107200-007214      Svc. No.: \_\_\_\_\_

Quantity	Description	Part #	On Site	Used	Ret.
15 ft	6" DI Pipe				
190 ft	8" DI Pipe				
20 ft	16" DI Pipe				
200 ft	Poly Wrap				
6	8" 45° DI Bends MJ w/ Accessories				
2	8" 22.5° DI Bends MJ w/ Accessories				
2	8" 11.25° DI Bends MJ w/ Accessories				
1	16"x16"x8" DI Tee w/ Accessories				
2	8"x8"x8" DI Tee w/ Accessories				
1	8"x8"x6" DI Tee w/ Accessories				
2	16" Solid Sleeve w/ Accessories				
1	8" Solid Sleeve w/ Accessories				
3	6" Solid Sleeve w/ Accessories				
3	8"x6" DI Reducer w/ Accessories				
3	6" Solid Cap				
1	16" Butterfly Valve				
4	8" Gate Valve				
1	6" Gate Valve				
6	Complete Valve Box				
3	8"x2" DI Tapped Cap MJ w/ Accessories				
10	8" Joint Restraints				
8	6" DI Mega Lugs				
34	8" DI Mega Lugs				
10	6" DI Mega Lugs				
6	6" CIP Mega Lugs				
16	Ductile Lugs				
24	3/4" All Thread				
16	3/4" Nuts				
1	5.5' Hydrant Assembly				
4	2" MIP x Compression Corp				
4	2" Compression x Compression Corp				
40 ft	2" Copper				

1	3/4" Curb Stop				
1	3/4" Corp Stop				
1	3/4" Tapping Saddle for DI Pipe				
1	Complete Service Box				
30 ft	3/4" Copper				

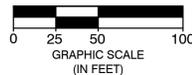
Kandey Co., Inc. \_\_\_\_\_

Inspector \_\_\_\_\_



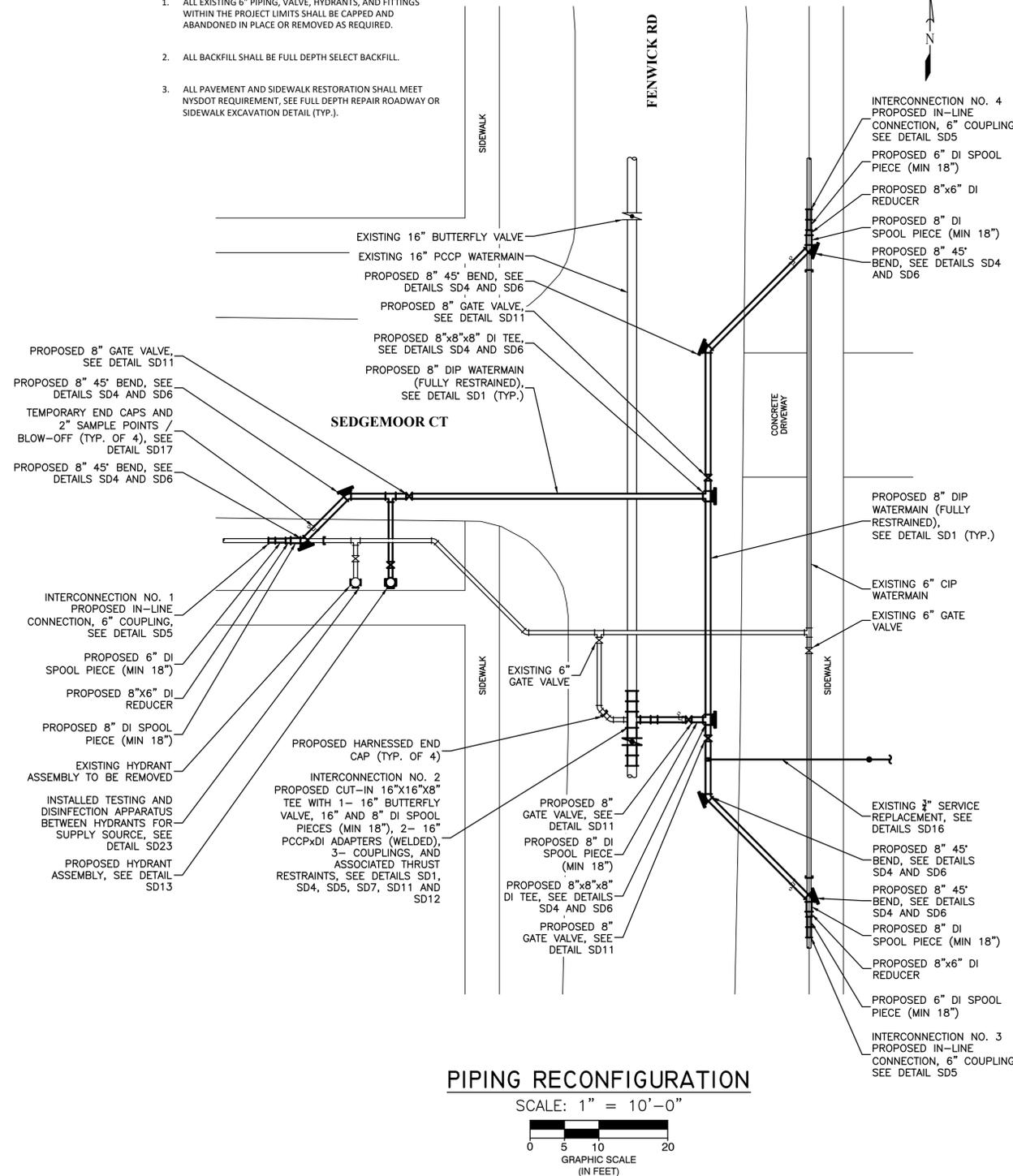
**SEDGEMOOR AND FENWICK PLAN**

SCALE: 1" = 50'-0"



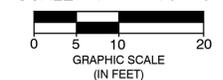
**NOTE:**

1. ALL EXISTING 6" PIPING, VALVE, HYDRANTS, AND FITTINGS WITHIN THE PROJECT LIMITS SHALL BE CAPPED AND ABANDONED IN PLACE OR REMOVED AS REQUIRED.
2. ALL BACKFILL SHALL BE FULL DEPTH SELECT BACKFILL.
3. ALL PAVEMENT AND SIDEWALK RESTORATION SHALL MEET NYS DOT REQUIREMENT, SEE FULL DEPTH REPAIR ROADWAY OR SIDEWALK EXCAVATION DETAIL (TYP.).



**PIPING RECONFIGURATION**

SCALE: 1" = 10'-0"



**PROJECT ESTIMATE: \$73,325.00**

- ITEM 1 - WATERMAIN
- ITEM 1A1 - 190 LF @ \$80.00 / LF = \$15,200.00
- ITEM 2 VALVES
- ITEM 2A1 - 4 EA @ \$3,500.00 EA = \$14,000.00
- ITEM 3 - EXISTING WATERMAIN CONNECTIONS (INTERCONNECTIONS)
- ITEM 3A1 - 3 @ \$2,500 EA = \$7,500.00
- ITEM 3C1 - 1 @ \$5,300 EA = \$5,300.00
- ITEM 4 - FIRE HYDRANTS
- ITEM 4A1 - 1 @ \$1,450 EA = \$1,450.00
- ITEM 5 - DUCTILE IRON (DI) FITTINGS
- ITEM 5A1 - 16 @ \$250 EA = \$4,000
- (6- 6" 45° BENDS, 3- 8"x6" REDUCERS, 2- 8"x8"x8" TEES, 1- 8"x8"x6" TEE, AND 4- 6" END CAPS)
- ITEM 6 - POLYETHYLENE ENCASUREMENT
- ITEM 6A1 - 200 LF @ \$1.00 / LF = \$200.00
- ITEM 8 - SELECT BACKFILL
- ITEM 8A1 - 105 CY @ \$55.00 / CY = \$5,775.00
- ITEM 9 - WATER SERVICE CONNECTIONS AND BLOW-OFFS
- ITEM 9A1 - 1 @ \$1,975.00 / EA = \$1,975.00
- ITEM 12 - TESTING AND DISINFECTION
- ITEM 12A1 - 190 LF @ \$10.00 / LF = \$1,900.00
- ITEM 13 - PAVEMENT, SIDEWALK, DRIVEWAY, LAWN, AND LANDSCAPE RESTORATION
- ITEM 13B1 - 80 SY @ \$130.00 / SY = \$10,400.00
- ITEM 13B6 - 15 LF @ \$75.00 / LF = \$1,125.00
- ITEM 13C2 - 10 SY @ \$150.00 / LF = \$1,500.00
- ITEM 13F1 - 100 SY @ \$30.00 / SY = \$3,000.00

**A. SEQUENCE OF OPERATIONS**

1. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY ALL UTILITIES, PROPER AUTHORITIES, AND SECURE ALL REQUIRED PERMITS NOT PROVIDED BY ECWA. THE OUTLINED SEQUENCE OF OPERATIONS SHALL BE FOLLOWED DURING CONSTRUCTION OF THIS PROJECT AND ANY CHANGES TO THIS SEQUENCE MUST BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

2. THE CONTRACTOR SHALL COMPLETE ALL OPERATIONS REQUIRED TO INSTALL ALL WATERMANS, FITTINGS, VALVES, AND HYDRANT. TEMPORARY END CAPS AND BLOW-OFF ASSEMBLIES SHALL BE INSTALLED AT THE WATERMAIN PRIOR TO INTERCONNECTION NOS. 1, 2, 3, AND 4 FOR TESTING AND FLUSHING.

3. UTILIZING THE EXISTING AND PROPOSED HYDRANTS, THE CONTRACTOR SHALL FLUSH, TEST, AND DISINFECT THE PROPOSED WATERMAIN UNDER ITEMS B AND C.

4. UPON SUCCESSFUL TESTING AND APPROVALS FROM GOVERNING AGENCIES, THE CONTRACTOR SHALL COMPLETE ALL INTERCONNECTIONS AND REPLACE THE SERVICE FOR 63 FENWICK ROAD.

**B. WATERMAIN FLUSHING PROCEDURES**

1. INSTALL PROPOSED TESTING AND DISINFECTION APPARATUS PER STANDARD DETAIL SD23 BETWEEN THE EXISTING AND PROPOSED HYDRANTS.

2. OPEN TEMPORARY BLOW-OFF INSTALLED PRIOR TO INTERCONNECTION NOS. 1, 2, 3, AND 4.

3. OPEN THE HYDRANTS TO PROVIDE WATER FOR REQUIRED FLUSHING. A MINIMUM FLUSHING VELOCITY OF 3.0 FPS (500 GPM FOR 8" MAIN) IS REQUIRED AND MUST BE ACHIEVED PER THE CONTRACT DOCUMENTS.

4. UPON COMPLETION OF FLUSHING, CLOSE THE HYDRANTS AND TEMPORARY BLOW-OFFS.

**C. TESTING AND DISINFECTION PROCEDURES**

1. FOLLOWING COMPLETION OF THE FLUSHING OPERATIONS OUTLINED UNDER ITEM B, THE WATERMAIN SHALL BE PRESSURE TESTED AT THE PRESSURES SHOWN ON DETAIL SD31 AND IN ACCORDANCE WITH THE CONTRACT SPECIFICATIONS. PRESSURE TEST AND LEAK TEST WILL BE PERFORMED CONCURRENTLY. THE PRESSURE TEST WILL BE CONDUCTED FOR A PERIOD OF 2 HOURS ON EACH TESTED SECTION.

2. WATER USED FOR PRESSURE TESTING AND DISINFECTION WILL BE OBTAINED THROUGH THE PRESSURE TESTING AND DISINFECTION APPARATUS PREVIOUSLY INSTALLED UNDER ITEM B.1.

3. FOLLOWING THE COMPLETION OF THE PRESSURE TESTING, THE WATERMAIN SHALL BE DISINFECTED IN ACCORDANCE WITH THE CONTRACT SPECIFICATIONS AND AS OUTLINE HEREIN.

4. SAMPLE POINTS SHALL BE INSTALLED AT THE LOCATIONS SHOWN ON THE CONTRACT DRAWINGS AND SHALL BE USED FOR TAKING CHLORINE LEVEL READINGS AND FOR FINAL WATER SAMPLING.

5. CHLORINE USED FOR THE DISINFECTION PROCEDURES SHALL BE LIQUID CHLORINE MIXED IN A TANK AND INTRODUCED INTO THE MAIN IN ACCORDANCE WITH THE PRESSURE TESTING AND DISINFECTION APPARATUS STANDARD DETAIL SD23.

6. UPON COMPLETION OF THE DISINFECTION OPERATION, THE WATERMAIN SHALL BE FLUSHED UNTIL SUCH TIME AS THE CHLORINE RESIDUAL IS BETWEEN 0.5 AND 1.2 MG/L. THE CONTENTS OF THE WATERMAIN SHALL BE EMPTIED INTO A TANK AND NEUTRALIZED IN ACCORDANCE WITH AWWA C-651 SPECIFICATIONS.

7. THE BACTERIOLOGICAL TESTING SAMPLES SHALL BE TAKEN AT INTERVALS OUTLINED IN THE SPECIFICATIONS AND TESTED BY AN APPROVED LABORATORY. NO BACTERIOLOGICAL TESTING IS REQUIRED FOR THE PRV PIT PIPING RECONFIGURATION PIPING. UPON COMPLETION OF THE TESTING AND DISINFECTION PROCEDURES AND FINAL APPROVAL OF THE RESULTS HAVE BEEN OBTAINED, REMOVE THE PRESSURE TESTING AND DISINFECTION APPARATUS AND COMPLETE ALL INTERCONNECTIONS.

**General Notes**

- 1) ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ERIE COUNTY WATER AUTHORITY STANDARD DETAILS AND SPECIFICATIONS, ECWA PN: 202100009
- 2) WATERMANS SHALL BE PRESSURE TESTED IN ACCORDANCE WITH AWWA C600
- 3) WATERMANS SHALL BE TESTED AND DISINFECTED IN ACCORDANCE WITH AWWA STANDARD C651, HOWEVER THE TABLET METHOD IS NOT ALLOWED
- 4) TWO SETS OF WATER BACTERIOLOGICAL SAMPLES SHALL BE TAKEN AT LEAST 24 HOURS APART
- 5) SEE STANDARD DETAIL GENERAL NOTES SECTION ON MISCELLANEOUS DETAILS
- 6) CONTRACTOR TO PROVIDE MAINTENANCE AND PROTECTION OF TRAFFIC THROUGHOUT CONSTRUCTION
- 7) SERVICE LOCATIONS ARE APPROXIMATIONS ONLY AND SHOULD BE FIELD CHECKED PRIOR TO CONSTRUCTION

**Legend**

- ⊙ = SANITARY MH
- ⊕ = TRAFFIC MH
- ⊗ = STORM MH
- ⊞ = CATCH BASIN
- ⊙ = UTILITY POLE
- ⊙ = FIRE HYDRANT
- ⊙ = WATER VALVE
- ⊙ = TREES
- W — = EXISTING WATERLINE
- W — = NEW WATERLINE
- S — = SANITARY SEWER
- ST — = STORM SEWER
- G — = GAS MAIN

Approved By:

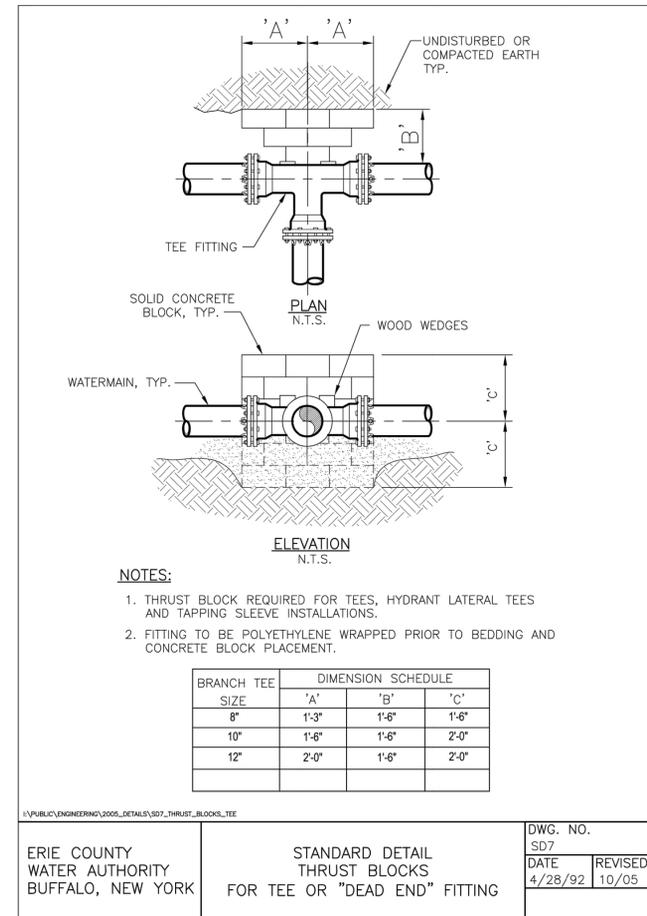
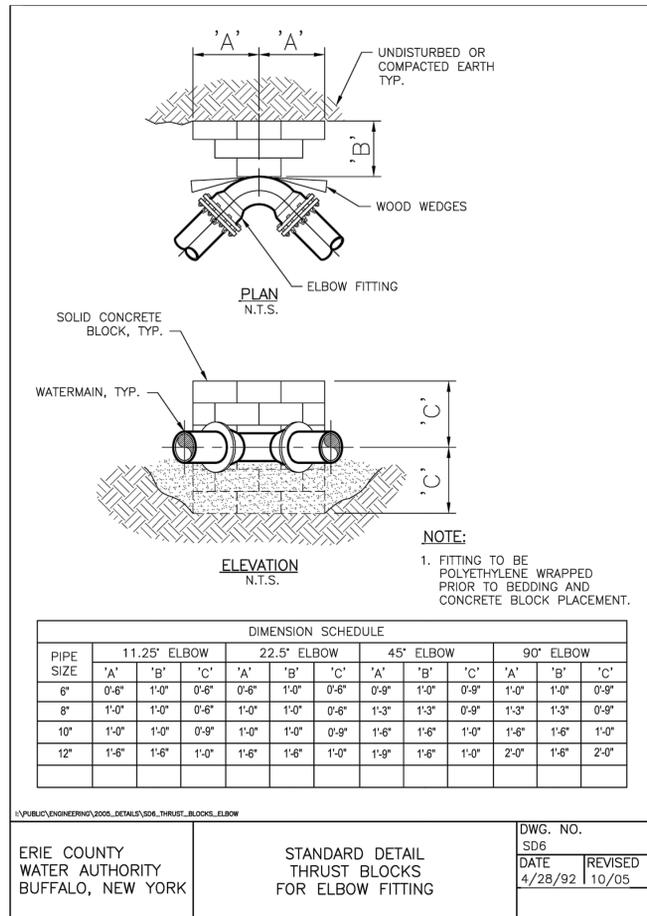
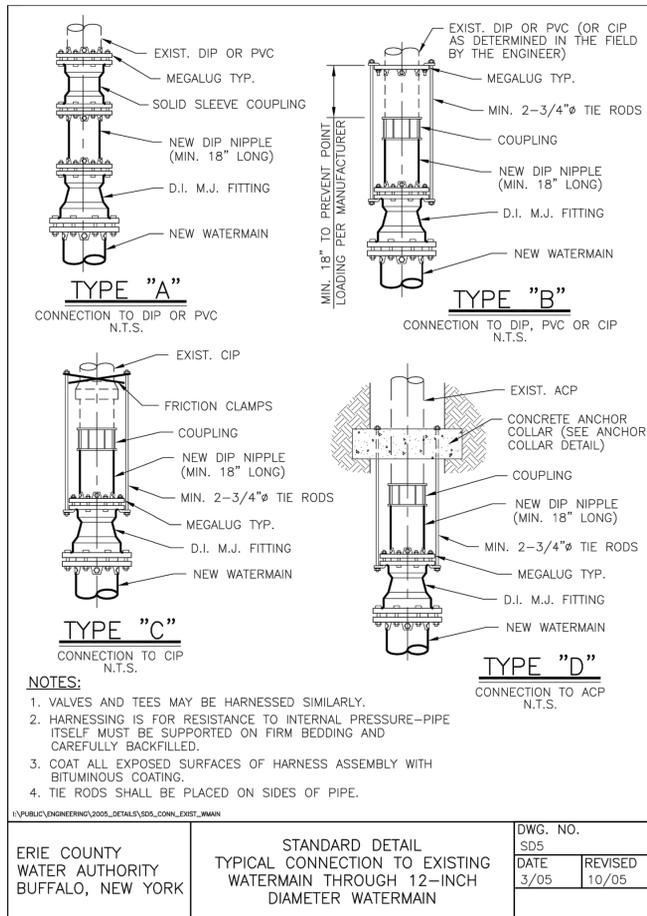
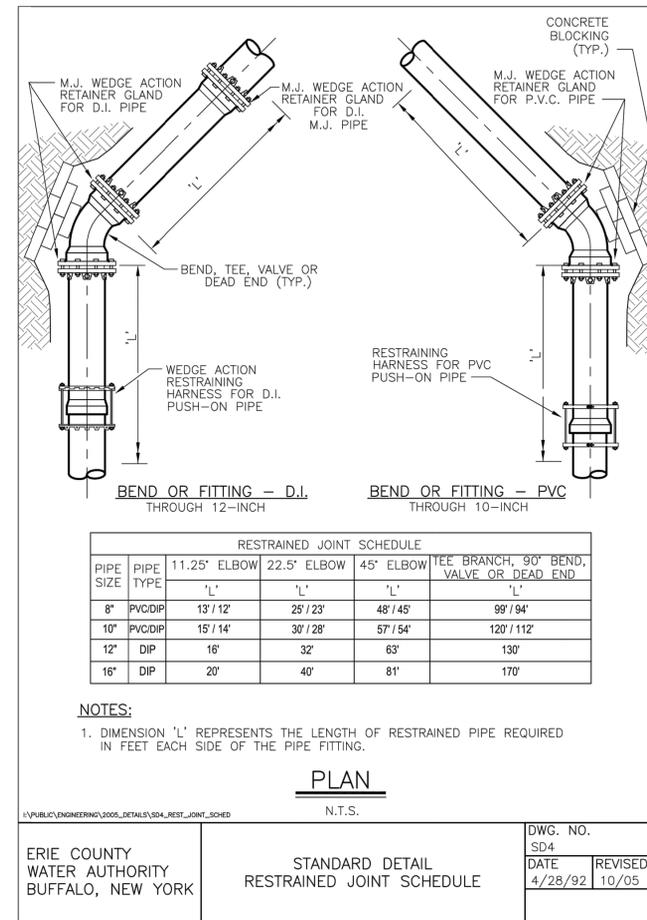
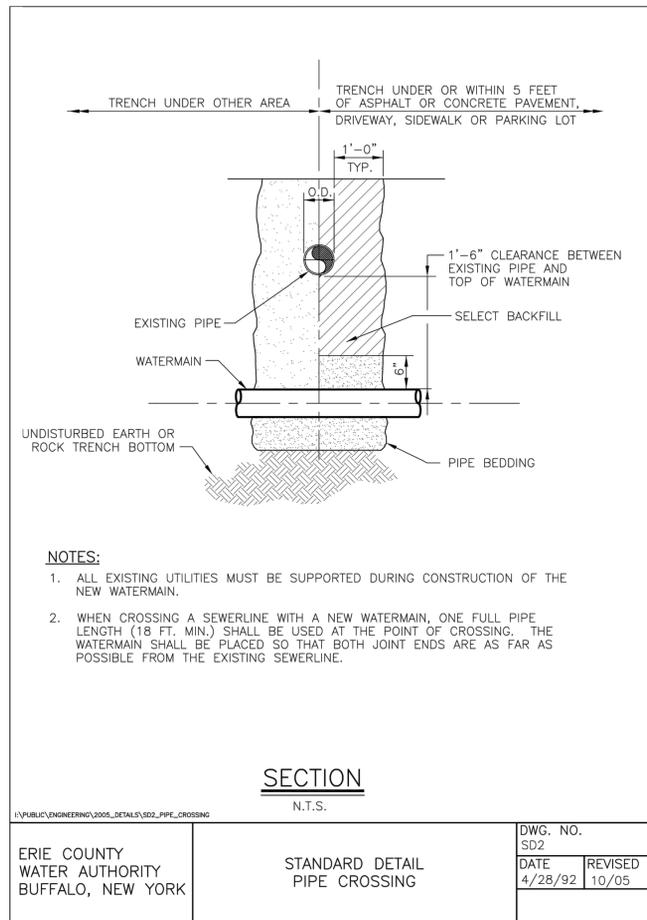
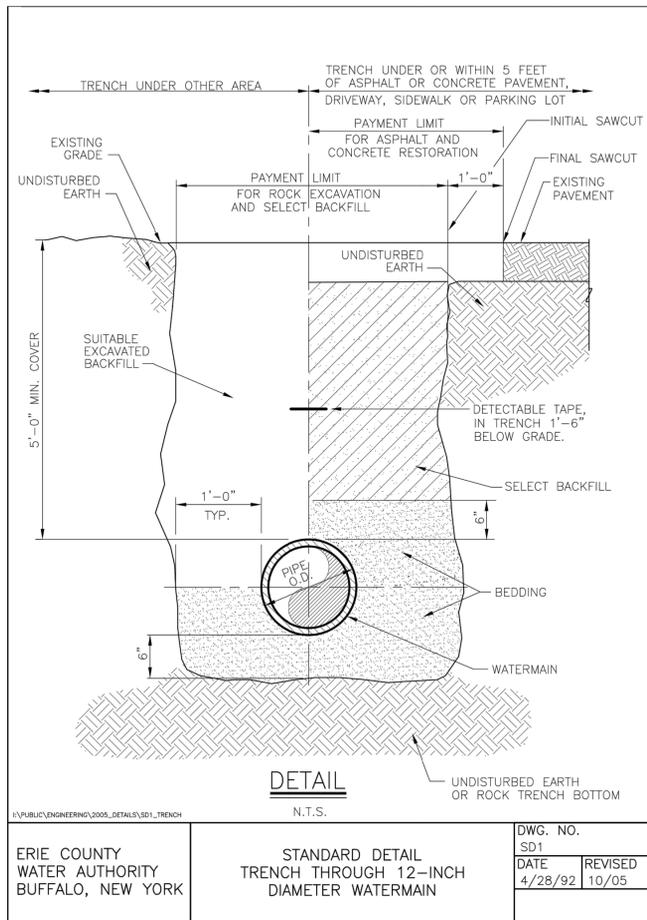


Project Name

**SEDGEMOOR AND FENWICK WATER SYSTEM IMPROVEMENTS**  
ECWA PN 202100188  
TOWNS OF AMHERST  
ERIE COUNTY - NEW YORK

SEDGEMOOR AND FENWICK PLAN		Sheet
Date	NOVEMBER 2021	<b>W-1</b>
Scale:	AS SHOWN	
Drawn/Revised By:	WWW	Page: 1 of 5
		File Name: 202100188 - SEDGEMOOR AND FENWICK DESIGN

ALL UTILITIES ARE BASED ON BEST GIVEN INFORMATION AND ARE APPROXIMATE ONLY. SOME UTILITIES MAY NOT BE SHOWN. CONTRACTOR SHALL FIELD VERIFY ALL UTILITIES DURING EXCAVATION BY CONTACTING UFPO PRIOR TO PERFORMING ANY EARTHWORK.



General Notes

Legend

Approved By:

ERIC COUNTY WATER AUTHORITY  
3030 UNION RD.  
CHEEKTOWAGA NY, 14227

Project Name  
SEDGEMOOR AND FENWICK  
WATER SYSTEM IMPROVEMENTS  
ECWA PN 202100188  
TOWNS OF AMHERST  
ERIE COUNTY - NEW YORK

MISCELLANEOUS  
DETAILS

Name  
Date  
NOVEMBER 2021

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W-2

Page: 2 of 5  
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General Notes

Legend



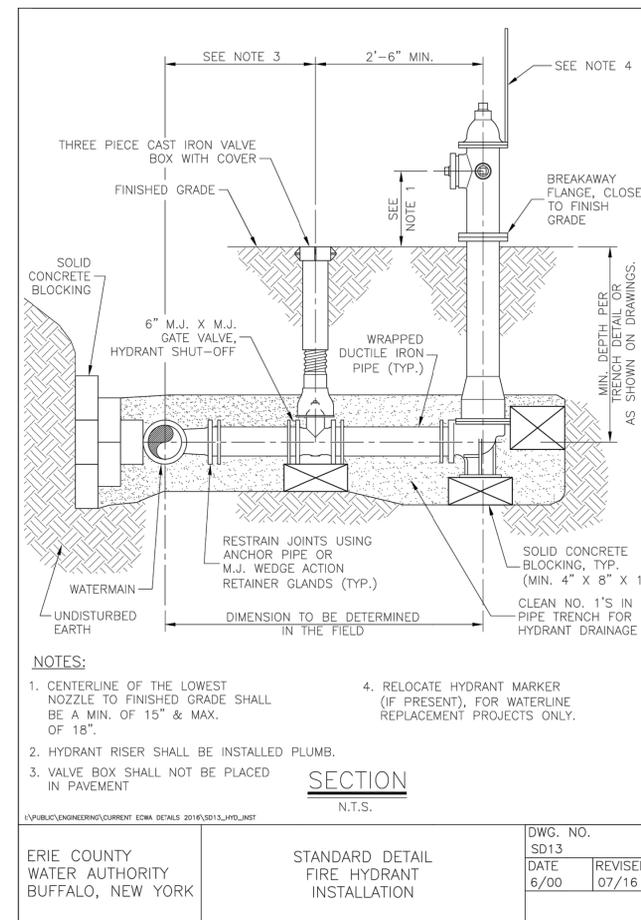
Project Name

SEDGEMOOR AND FENWICK  
WATER SYSTEM IMPROVEMENTS  
ECWA PN 202100188  
TOWNS OF AMHERST  
ERIE COUNTY - NEW YORK

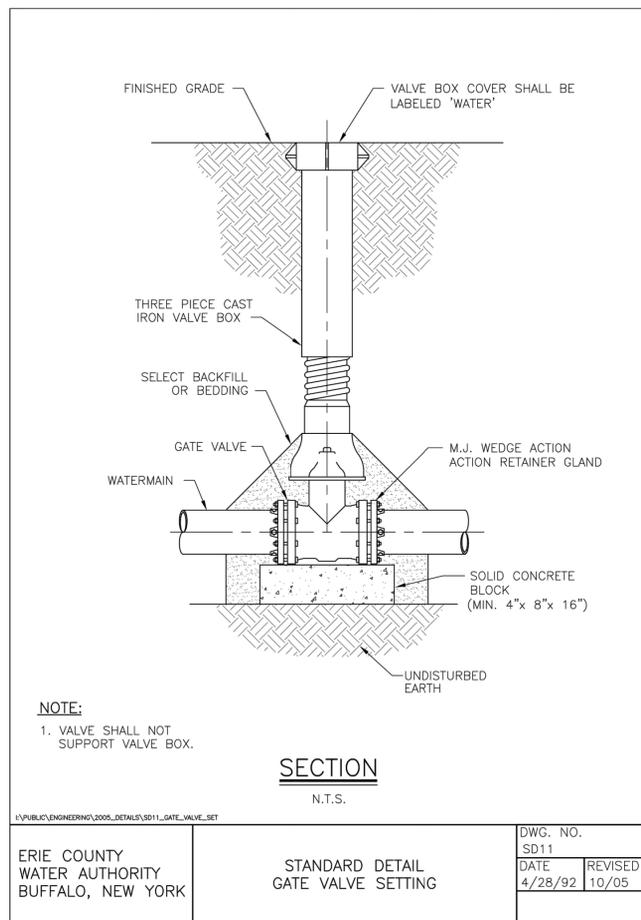
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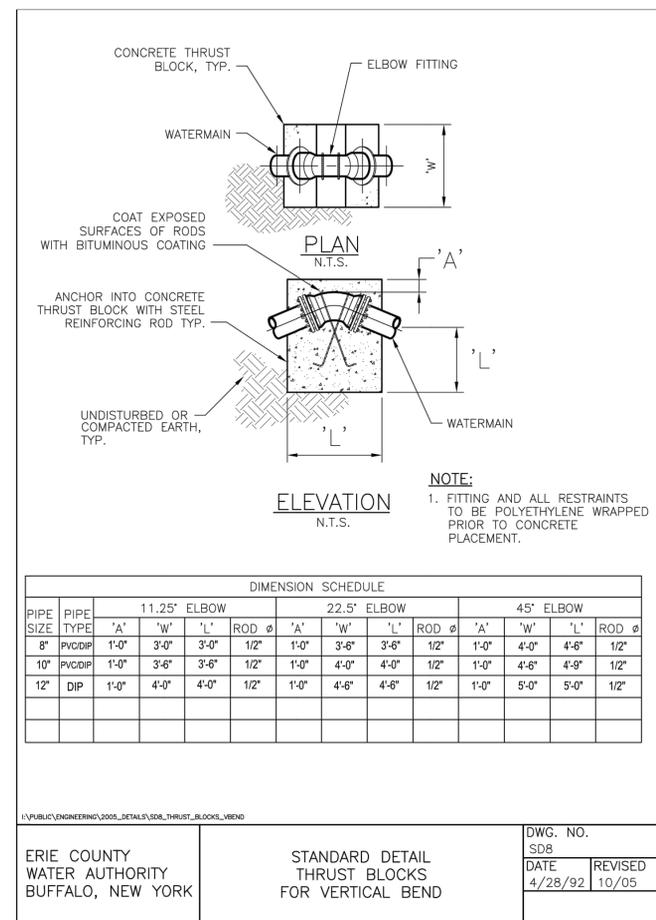
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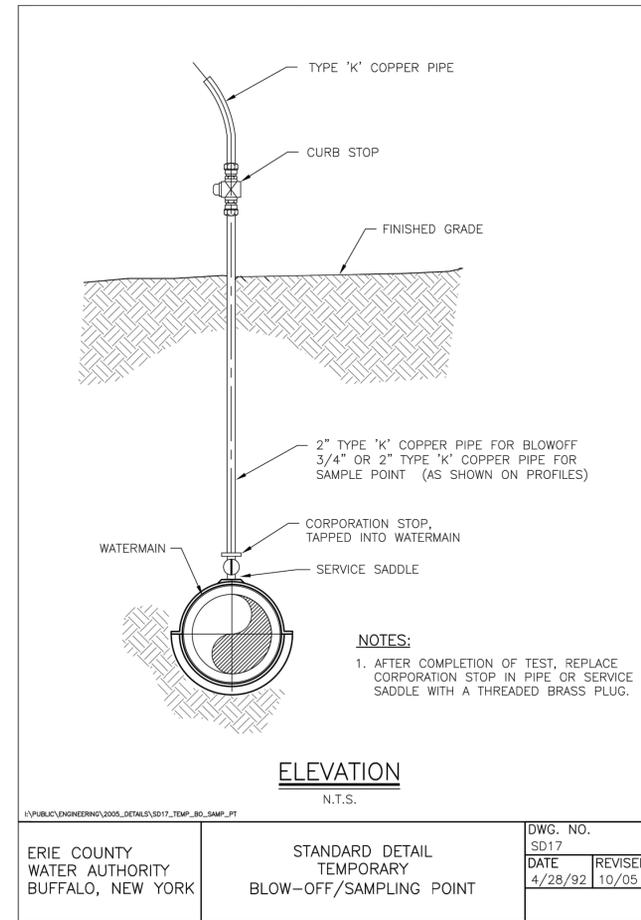
ERIE COUNTY WATER AUTHORITY BUFFALO, NEW YORK	STANDARD DETAIL FIRE HYDRANT INSTALLATION	DWG. NO. SD13 DATE 6/00 REVISED 07/16
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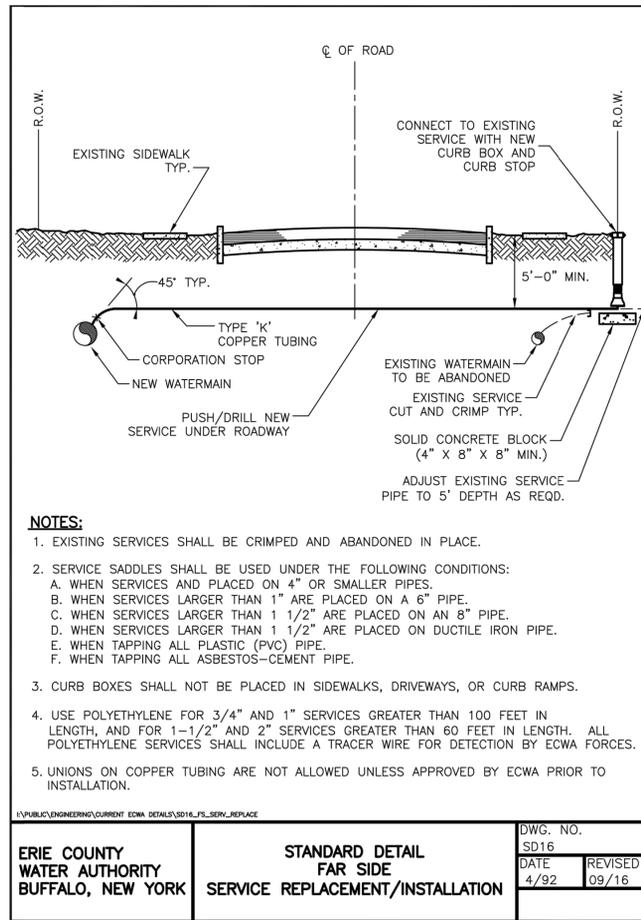
ERIE COUNTY WATER AUTHORITY BUFFALO, NEW YORK	STANDARD DETAIL GATE VALVE SETTING	DWG. NO. SD11 DATE 4/28/92 REVISED 10/05
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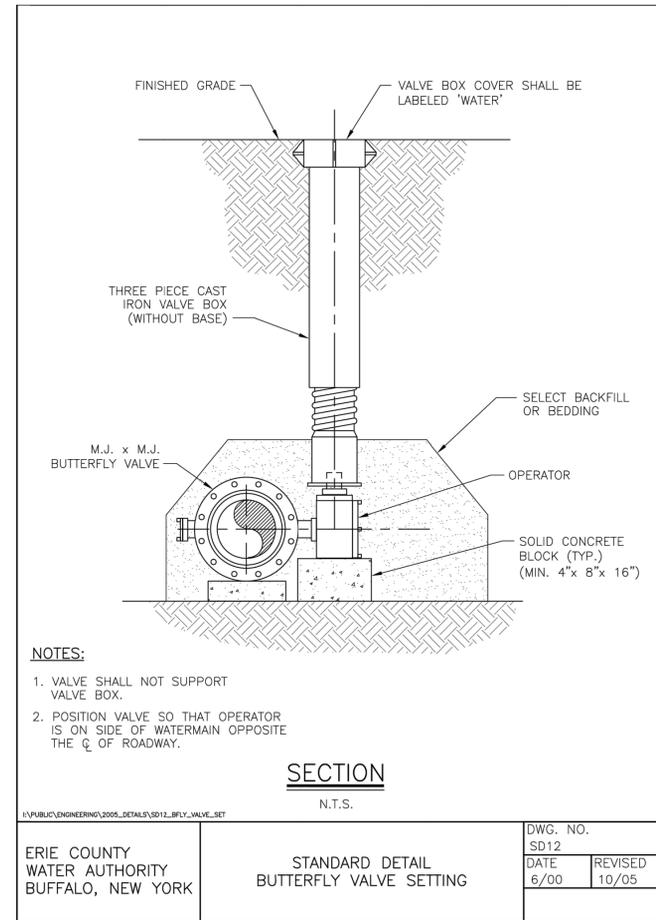
ERIE COUNTY WATER AUTHORITY BUFFALO, NEW YORK	STANDARD DETAIL THRUST BLOCKS FOR VERTICAL BEND	DWG. NO. SD8 DATE 4/28/92 REVISED 10/05
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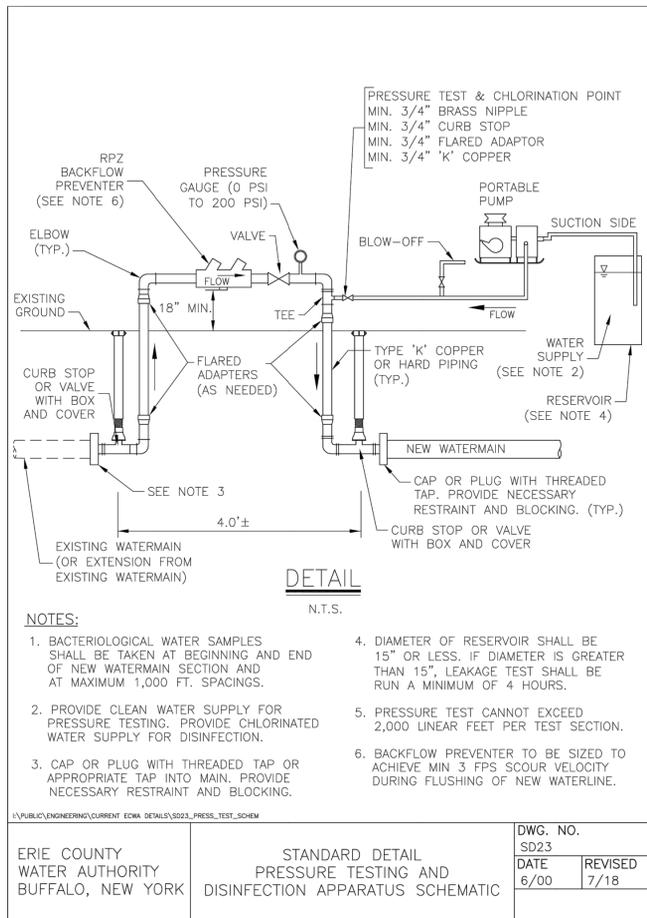
ERIE COUNTY WATER AUTHORITY BUFFALO, NEW YORK	STANDARD DETAIL TEMPORARY BLOW-OFF/SAMPLING POINT	DWG. NO. SD17 DATE 4/28/92 REVISED 10/05
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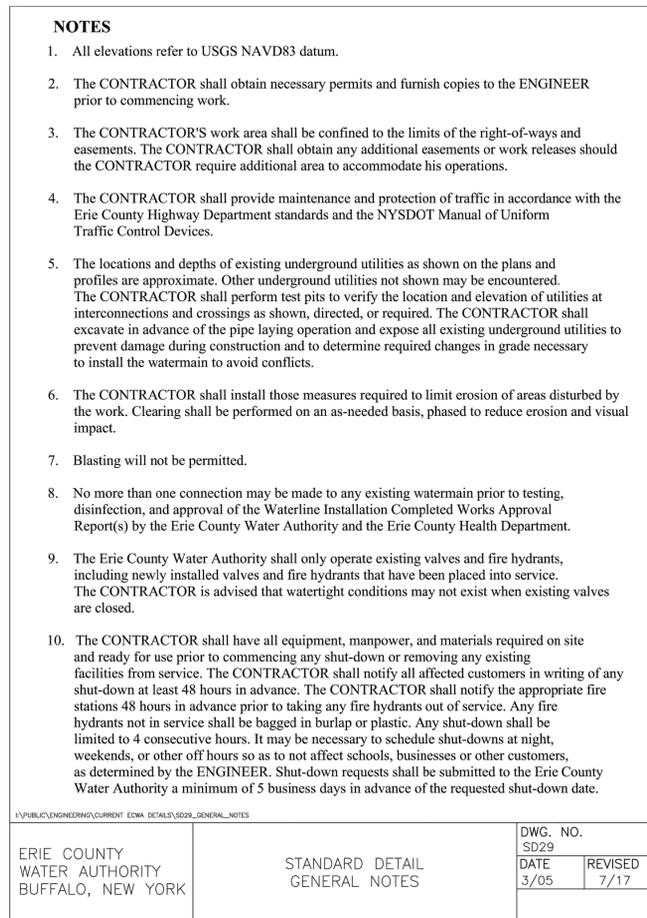
ERIE COUNTY WATER AUTHORITY BUFFALO, NEW YORK	STANDARD DETAIL FAR SIDE SERVICE REPLACEMENT/INSTALLATION	DWG. NO. SD16 DATE 4/92 REVISED 09/16
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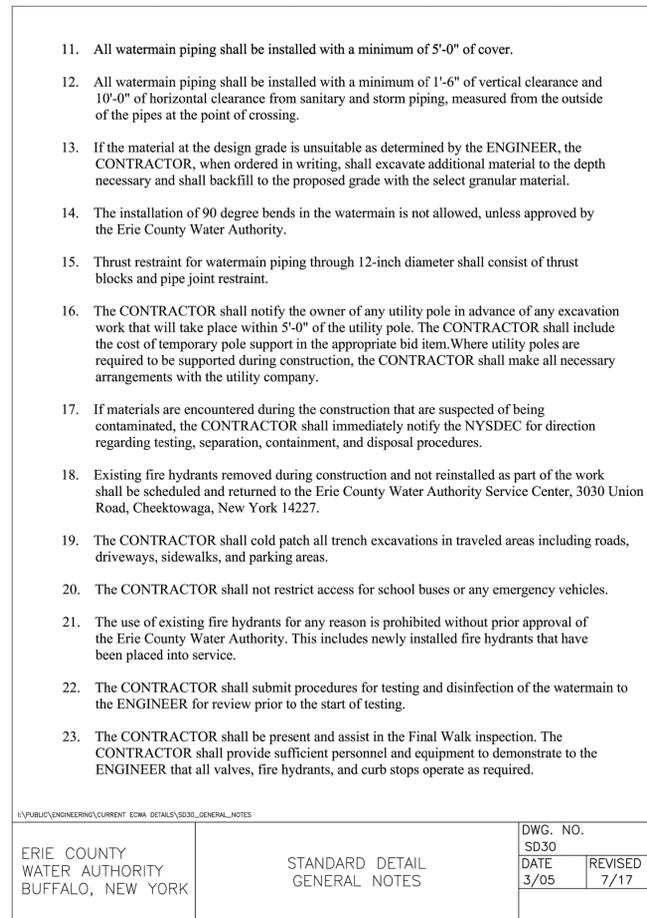
ERIE COUNTY WATER AUTHORITY BUFFALO, NEW YORK	STANDARD DETAIL BUTTERFLY VALVE SETTING	DWG. NO. SD12 DATE 6/00 REVISED 10/05
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ERIE COUNTY WATER AUTHORITY BUFFALO, NEW YORK	STANDARD DETAIL PRESSURE TESTING AND DISINFECTION APPARATUS SCHEMATIC	DWG. NO. SD23	DATE 6/00	REVISED 7/18
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ERIE COUNTY WATER AUTHORITY BUFFALO, NEW YORK	STANDARD DETAIL GENERAL NOTES	DWG. NO. SD29	DATE 3/05	REVISED 7/17
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ERIE COUNTY WATER AUTHORITY BUFFALO, NEW YORK	STANDARD DETAIL GENERAL NOTES	DWG. NO. SD30	DATE 3/05	REVISED 7/17
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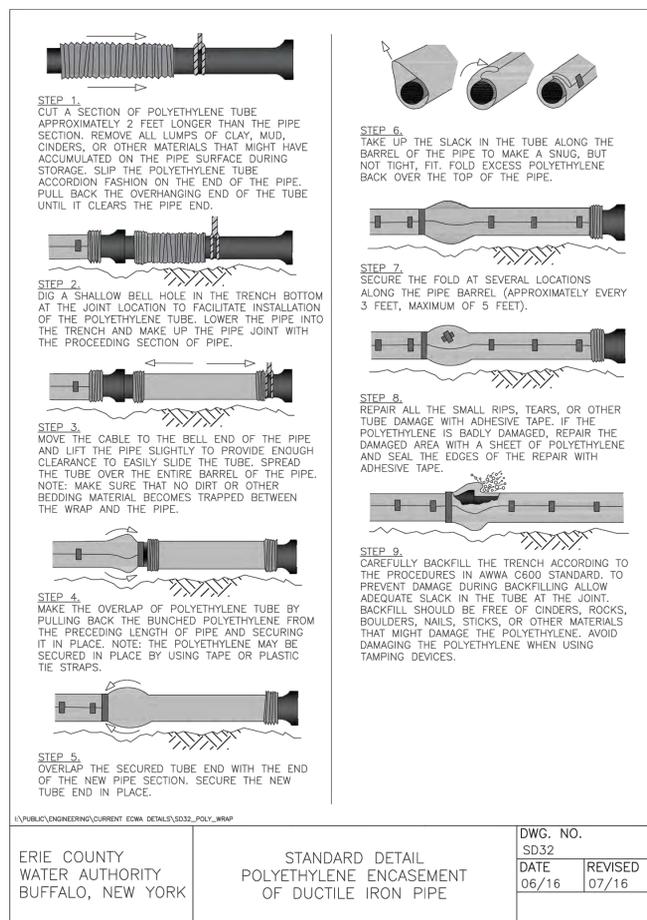
PIPE DIAMETER (in)	PIPE MATERIAL		WORKING PRESSURE (psi)	TEST PRESSURE (psi)
	Type	Rating		
6" AND 8"	DIP	CLASS 52	75	175

**DETAIL**  
N.T.S.

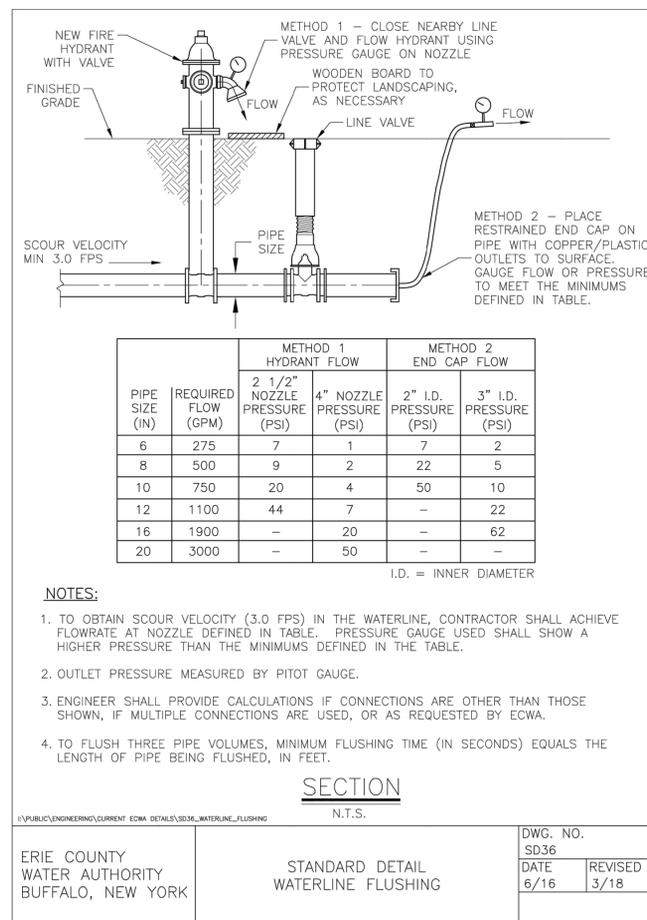
**NOTES:**

- CUT A SECTION OF POLYETHYLENE TUBE APPROXIMATELY 2 FEET LONGER THAN THE PIPE SECTION. REMOVE ALL LUMPS OF CLAY, MUD, CINDERS, OR OTHER MATERIALS THAT MIGHT HAVE ACCUMULATED ON THE PIPE SURFACE DURING STORAGE. SLIP THE POLYETHYLENE TUBE ACCORDION FASHION ON THE END OF THE PIPE. PULL BACK THE OVERHANGING END OF THE TUBE UNTIL IT CLEARS THE PIPE END.
- DIG A SHALLOW BELL HOLE IN THE TRENCH BOTTOM AT THE JOINT LOCATION TO FACILITATE INSTALLATION OF THE POLYETHYLENE TUBE. LOWER THE PIPE INTO THE TRENCH AND MAKE UP THE PIPE JOINT WITH THE PRECEDING SECTION OF PIPE.
- MOVE THE CABLE TO THE BELL END OF THE PIPE AND LIFT THE PIPE SLIGHTLY TO PROVIDE ENOUGH CLEARANCE TO EASILY SLIDE THE TUBE. SPREAD THE TUBE OVER THE ENTIRE BARREL OF THE PIPE. NOTE: MAKE SURE THAT NO DIRT OR OTHER BEDDING MATERIAL BECOMES TRAPPED BETWEEN THE WRAP AND THE PIPE.
- MAKE THE OVERLAP OF POLYETHYLENE TUBE BY PULLING BACK THE BUNCHED POLYETHYLENE FROM THE PRECEDING LENGTH OF PIPE AND SECURING IT IN PLACE. NOTE: THE POLYETHYLENE MAY BE SECURED IN PLACE BY USING TAPE OR PLASTIC TIE STRAPS.
- OVERLAP THE SECURED TUBE END WITH THE END OF THE NEW PIPE SECTION. SECURE THE NEW TUBE END IN PLACE.

ERIE COUNTY WATER AUTHORITY BUFFALO, NEW YORK	PRESSURE TESTING SCHEDULE	DWG. NO. SD31	DATE 10/05	REVISED
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ERIE COUNTY WATER AUTHORITY BUFFALO, NEW YORK	STANDARD DETAIL POLYETHYLENE ENCASEMENT OF DUCTILE IRON PIPE	DWG. NO. SD32	DATE 06/16	REVISED 07/16
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ERIE COUNTY WATER AUTHORITY BUFFALO, NEW YORK	STANDARD DETAIL WATERLINE FLUSHING	DWG. NO. SD36	DATE 6/16	REVISED 3/18
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General Notes

Legend

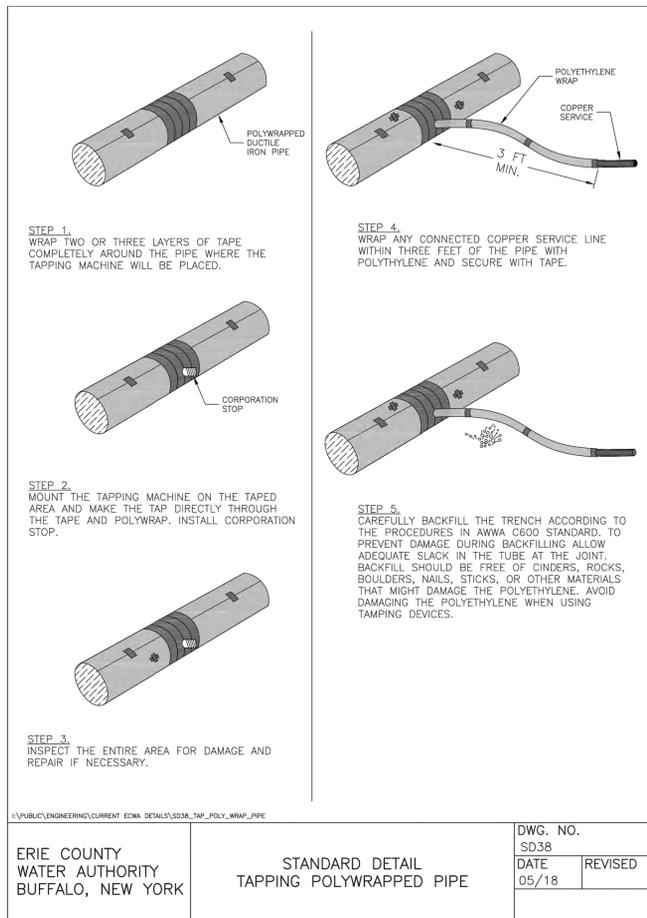
Approved By:

ERIE COUNTY WATER AUTHORITY  
3030 UNION RD.  
CHEEKTOWAGA NY, 14227

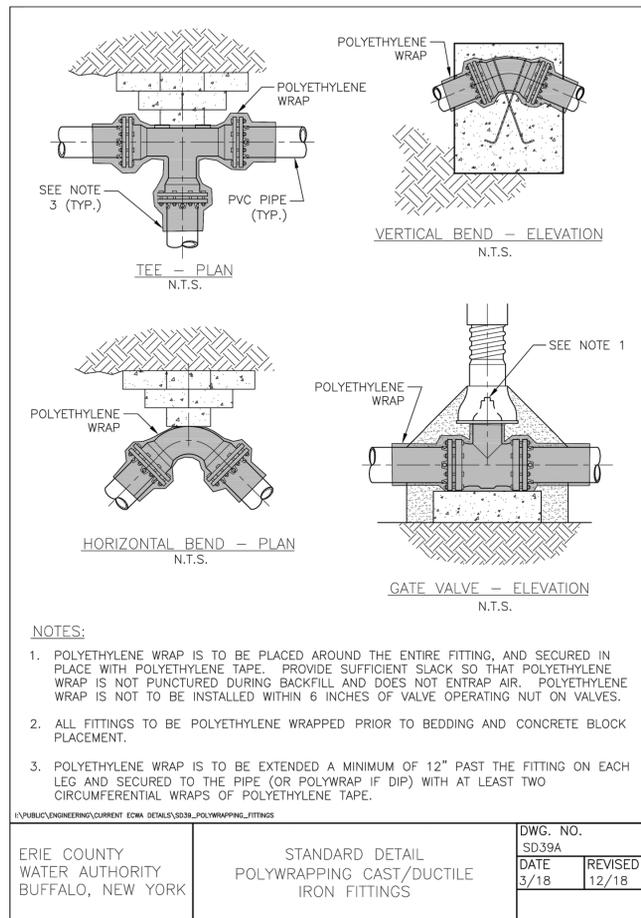
Project Name  
SEDGEMOOR AND FENWICK  
WATER SYSTEM IMPROVEMENTS  
ECWA PN 202100188

TOWNS OF AMHERST  
ERIE COUNTY - NEW YORK

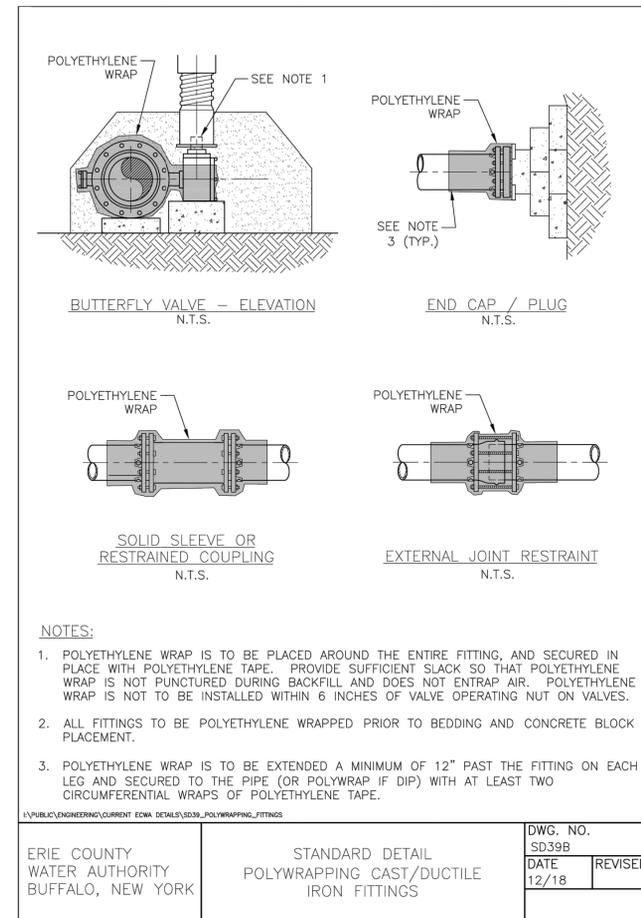
MISCELLANEOUS DETAILS	Sheet
Date NOVEMBER 2021	<b>W-4</b>
Scale: AS SHOWN	Page: 4 of 5
Drawn/Revised By: WWW	File Name: 202100188 - SEDGEMOOR AND FENWICK DESIGN



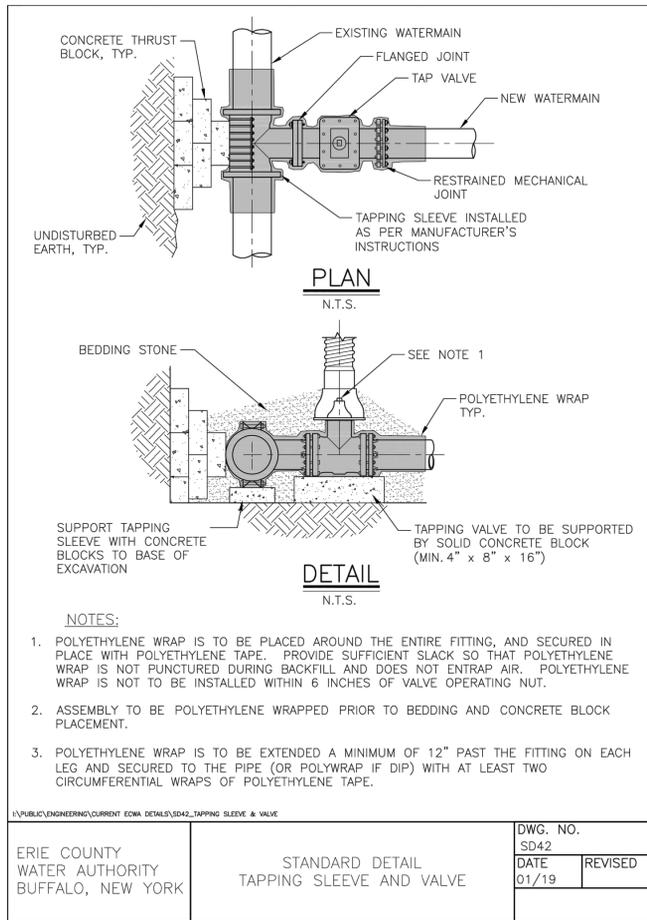
ERIE COUNTY WATER AUTHORITY BUFFALO, NEW YORK	STANDARD DETAIL TAPPING POLYWRAPPED PIPE	DWG. NO. SD38	DATE 05/18	REVISED
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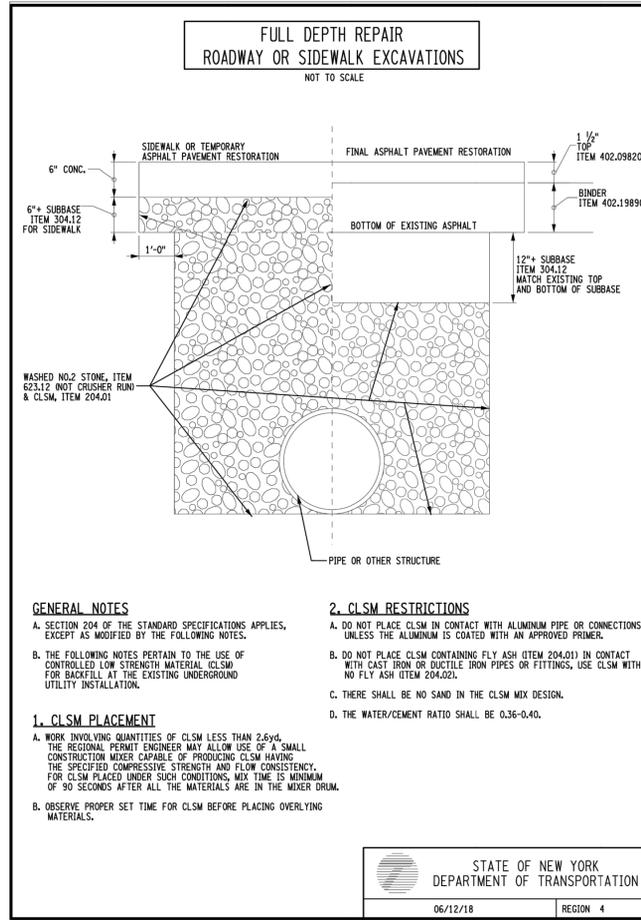
ERIE COUNTY WATER AUTHORITY BUFFALO, NEW YORK	STANDARD DETAIL POLYWRAPPING CAST/DUCTILE IRON FITTINGS	DWG. NO. SD39A	DATE 3/18	REVISED 12/18
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ERIE COUNTY WATER AUTHORITY BUFFALO, NEW YORK	STANDARD DETAIL POLYWRAPPING CAST/DUCTILE IRON FITTINGS	DWG. NO. SD39B	DATE 12/18	REVISED
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ERIE COUNTY WATER AUTHORITY BUFFALO, NEW YORK	STANDARD DETAIL TAPPING SLEEVE AND VALVE	DWG. NO. SD42	DATE 01/19	REVISED
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STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION	06/12/18	REGION 4
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General Notes

Legend

Approved By:

ERIE COUNTY WATER AUTHORITY  
3030 UNION RD.  
CHEEKTOWAGA NY, 14227

Project Name  
SEDGEMOOR AND FENWICK  
WATER SYSTEM IMPROVEMENTS  
ECWA PN 202100188  
TOWNS OF AMHERST  
ERIE COUNTY - NEW YORK

MISCELLANEOUS DETAILS	Sheet
Date NOVEMBER 2021	<b>W-5</b>
Scale: AS SHOWN	Page: 5 of 5
Drawn/Revised By: WWW	File Name: 202100188 - SEDGEMOOR AND FENWICK DESIGN

**ERIE COUNTY WATER AUTHORITY  
CONSTRUCTION AUTHORIZATION**

Project No. 202100314  
Budget No. \_\_\_\_\_

Authorization No.: EC 7231, 7232, 7233  
Date: 1/14/2022  
Inputted By/Date: \_\_\_\_\_

January 2022 Estimate Starting Date  
April 2022 Estimate Complete Date  
X yes \_\_\_\_\_ no Retirement Involved  
Public Street  
X Private Right of Way  
On Authority's Prop  
Tax Districts \_\_\_\_\_  
Name of Grantor of Easement \_\_\_\_\_  
Date of Easement \_\_\_\_\_

**TITLE OF PROJECT:** Filter 4 Valve Failure  
Van De Water Treatment Plant.

**CLASS OF MAIN INSTALLATION:**  
X System Betterment  
Bldr/Cont/Dev. Agree.  
Owner Occupant Cont.  
Special Revenue Cont.

**DETAILED DESCRIPTION AND PURPOSE:**  
Declaration of Emergency for Van De Water WTP  
filter 4 30" wash water supply valve failure/  
repair. Purchase of 3 sets of valves & actuators to  
provide spares for anticipated future failures.  
EC 7231 – Retirement # 220006  
EC 7232 – Retirement # 220007  
EC 7233 – Retirement # 220008

**ESTIMATE COST**

(1) Total Est. Cost \$ 90,574.65  
(2) \_\_\_\_\_ Meters and Service @ \$ \_\_\_\_\_  
(3) Removal Cost Less Salvage \$ \_\_\_\_\_  
(4) Gross Investment \$ 90,574.65

**DEDUCT**

(5) Const. Advance \$ \_\_\_\_\_  
(6) Service Conn. \$ \_\_\_\_\_  
(7) Refunds \$ \_\_\_\_\_  
(8) Net Auth. Invest. \$ 90,574.65

**BUDGETARY DATA**

(9) Tot. Budget Expnd. \$ \_\_\_\_\_  
(10) This Authorization \$ \_\_\_\_\_  
(11) Pre Approved \$ \_\_\_\_\_  
(12) Tot. Apvl. To Date \$ \_\_\_\_\_  
(13) Bal. Budget Expnd. \$ \_\_\_\_\_

**APPROVALS**

Preparation Michael Stoklosa  
Dir. of Dist. \_\_\_\_\_ 2/27/2026  
Exec. Engr. Jamard F. Rowalich 2/27/2026  
Admn. Director \_\_\_\_\_  
Legal Dept. \_\_\_\_\_  
Acct. Dept. \_\_\_\_\_

**ESTIMATED EARNINGS & RETURNS**

**ESTIMATED INCREASE IN REVENUES**

(14) Customers @ \$ \_\_\_\_\_  
\$ \_\_\_\_\_  
(15) Hydrants @ \$ \_\_\_\_\_  
\$ \_\_\_\_\_

**EST. SAVINGS IN OPERATING EXPENSES**

(16) \$ \_\_\_\_\_  
(17) Gross Increase in Earnings \$ \_\_\_\_\_

**REVENUE DEDUCTIONS**

(18) Operating Exp. \_\_\_\_\_ % \$ \_\_\_\_\_  
(19) Depreciation \$ \_\_\_\_\_  
(20) Total Deductions \$ \_\_\_\_\_  
(21) Net Income Loss \$ \_\_\_\_\_  
(22) % Return on Investment \_\_\_\_\_  
(21) divided by 8) \_\_\_\_\_ %

**RESOLUTION APPROVING**

Adopted \_\_\_\_\_  
Item No. \_\_\_\_\_

# Central Purchasing Declaration of State of Emergency

EC No.: \_\_\_\_\_

OWIP No.: N/A

Project No.: 202100314

Date of Emergency: 12/16/2021

## Detailed Description of Emergency Condition:

On December 16, 2021, upon backwashing Filter No. 4, the 30-inch wash water supply valve failed to open and cause filter to alarm. Upon further evaluation and various repairs efforts, it has been determined that the valve requires immediate replacement. The existing valve is from the original construction, which was over 40-years ago and has passed its useful life.

The failure of the valve is similar to the other original filter valves replaced recently. To date ECWA staff has replaced three (3) other filter valves that have failed, including two 30-inch filter isolation valves and one 24-inch flow rate controller valve. The original valve(s) replacement requires cutting the connected piping for removal and adding a flange coupling adapter to complete the installation for each.

Additionally, the existing actuator requires replacement as they are over 20-years old and have been discontinued, with no spare, or repair parts available.

Due to the current issues of limited supplies and material, with extremely long lead times, we are ordering a total of three (3) sets of valves and actuators to provide spares for anticipated future failures.

**Authorized Signature:** Pursuant to the Purchasing Guidelines (Page 17) authorization granted to one or more of the following two (2) individuals: Any Commissioner, the Executive Director, Executive Engineer, and/or the Director of Administration.

 \_\_\_\_\_ 1/10/22

 \_\_\_\_\_ 01/14/2022

To: Purchasing System File

**ERIE COUNTY WATER AUTHORITY  
CONSTRUCTION AUTHORIZATION**

Project No. 202100241  
Budget No. \_\_\_\_\_

Authorization No.: EC 7234  
Date: 1/26/2022  
Inputted By/Date: \_\_\_\_\_

October 2021 Estimate Starting Date  
December 2021 Estimate Complete Date  
yes X no Retirement Involved  
X Public Street  
Private Right of Way  
On Authority's Prop  
Tax Districts \_\_\_\_\_  
Name of Grantor of Easement \_\_\_\_\_  
Date of Easement \_\_\_\_\_

**TITLE OF PROJECT:** Southwestern Blvd.  
# 4030 Main Extension/Dollar General. Install a  
New Hydrant

**CLASS OF MAIN INSTALLATION:**  
X System Betterment  
Bldr/Cont/Dev. Agree.  
Owner Occupant Cont.  
Special Revenue Cont.

**DETAILED DESCRIPTION AND PURPOSE:**  
Installation of a new hydrant and main line valve  
on a 350 LF main extension for 4030 Southwestern  
Blvd.  
Hydrant is required to meet ECDOH hydrant  
spacing requirements.

**ESTIMATE COST**

(1) Total Est. Cost \$ 5,529.15  
(2) \_\_\_\_\_ Meters and Service @ \$ \_\_\_\_\_  
(3) Removal Cost Less Salvage \$ \_\_\_\_\_  
(4) Gross Investment \$ 5,529.15

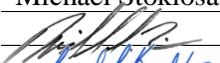
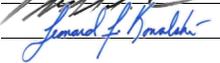
**DEDUCT**

(5) Const. Advance \$ \_\_\_\_\_  
(6) Service Conn. \$ \_\_\_\_\_  
(7) Refunds \$ \_\_\_\_\_  
(8) Net Auth. Invest. \$ 5,529.15

**BUDGETARY DATA**

(9) Tot. Budget Expnd. \$ \_\_\_\_\_  
(10) This Authorization \$ \_\_\_\_\_  
(11) Pre Approved \$ \_\_\_\_\_  
(12) Tot. Apvl. To Date \$ \_\_\_\_\_  
(13) Bal. Budget Expnd. \$ \_\_\_\_\_

**APPROVALS**

Preparation Michael Stoklosa  
Dir. of Dist.  2/27/2026  
Exec. Engr.  2/27/2026  
Admn. Director \_\_\_\_\_  
Legal Dept. \_\_\_\_\_  
Acct. Dept. \_\_\_\_\_

**ESTIMATED EARNINGS & RETURNS**

**ESTIMATED INCREASE IN REVENUES**

(14) Customers @ \$ \_\_\_\_\_  
\$ \_\_\_\_\_  
(15) Hydrants @ \$ \_\_\_\_\_  
\$ \_\_\_\_\_

**EST. SAVINGS IN OPERATING EXPENSES**

(16) \$ \_\_\_\_\_  
(17) Gross Increase in Earnings \$ \_\_\_\_\_

**REVENUE DEDUCTIONS**

(18) Operating Exp. \_\_\_\_\_ % \$ \_\_\_\_\_  
(19) Depreciation \$ \_\_\_\_\_  
(20) Total Deductions \$ \_\_\_\_\_  
(21) Net Income Loss \$ \_\_\_\_\_  
(22) % Return on Investment \_\_\_\_\_  
(21) divided by 8) \_\_\_\_\_ %

**RESOLUTION APPROVING**

Adopted \_\_\_\_\_  
Item No. \_\_\_\_\_

# Cost Estimate

PROJECT NO.: **202100241**

Prepared By: **A.MASSARO**  
 Inputted By: \_\_\_\_\_

Date: **10/20/2021**  
 Date: \_\_\_\_\_

**TITLE: INSTALL A PUBLIC FIRE HYDRANT IN DIRECT SERVICE AREA (DOLLAR GENERAL)  
 4030 SOUTHWESTERN BLVD., TOWN OF HAMBURG**

Type of Connection: **M.J.**

## MATERIAL LIST

Materials					
Qty.	U/M	Item No.	Description	Cost per Unit	Total Cost per Item
10	LF	12060	8" D.I PIPE	\$20.17	\$201.70
1	EA	11137	8"x6" HYDRANT TEE	\$113.53	\$113.53
1	EA	7062	6" GATE VALVE	\$539.45	\$539.45
1	EA	13169	6"x24" ANCHOR COUPLING	\$130.41	\$130.41
1	EA	10005	FIRE HYDRANT 5' BURY	\$1,726.67	\$1,726.67
1	EA		VALVE BOX COMPLETE	\$200.00	\$200.00
5	EA		RETAINER GLAND	\$50.00	\$250.00
TOTAL MATERIAL COST (MAT)					\$3,161.76

## INSTALLATION per ECWA LARGE SERVICE CONTRACT

Installation					
Qty.	U/M	Item No.	Description	Cost per Unit	Total Cost per Item
1	EA	4A1	INSTALL FIRE HYDRANT	\$1,450.00	\$1,450.00
1	EA	5A1	DI FITTING (8"x6" TEE)	\$250.00	\$250.00
10	EA	1A1	6" WATER MAIN INSTALL	\$80.00	\$800.00
1	EA	2A1	INSTALL 6" GATE VALVE	\$3,500.00	\$3,500.00
10	EA	6A1	POLY ENCASEMENT	\$1.00	\$10.00
Restoration					
Qty.	U/M	Item No.	Description	Cost per Unit	Total Cost per Item
10	SY	13F1	LAWN RESTORATION	\$30.00	\$300.00
TOTAL LABOR COST (LAB)					\$6,310.00

STORES ALLOCATION COST (SAL) = 15.0% OF MATERIAL COST (MAT) \$474.26

SUBTOTAL "A" = MAT+LAB+SAL \$9,946.02

OVERHEAD COST (OVHD) = 11.9% OF SUBTOTAL "A" \$1,183.58

SUBTOTAL "B" = OVHD + SUBTOTAL "A" \$11,129.60

CONTINGENCIES (CONT) = 10.0% OF SUBTOTAL "B" \$1,112.96

**\*TOTAL ESTIMATED COST = CONT + SUBTOTAL "B" (ROUNDED) \$12,300.00**

(\*ESTIMATED COST EFFECTIVE IF INSTALLED BY APRIL 30, 2023)



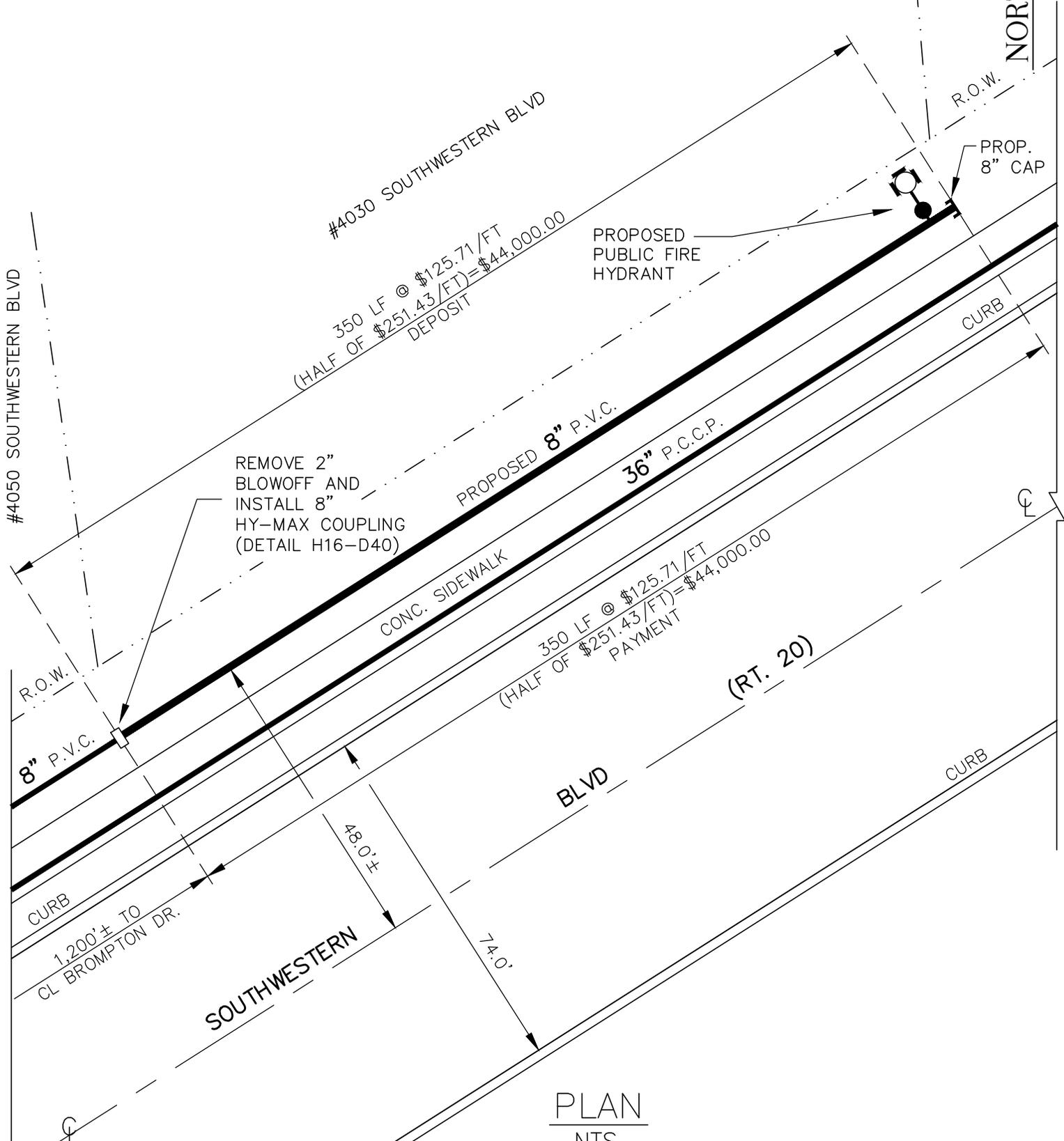
**ERIE COUNTY**  
**WATER AUTHORITY**  
 BUFFALO, NEW YORK

DR. ARM  
 DATE: 10/20/21  
 OFFICE

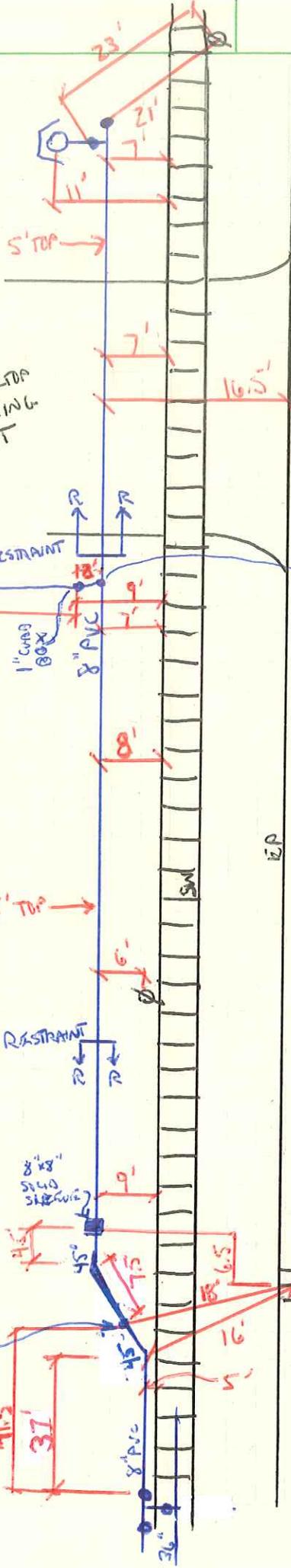
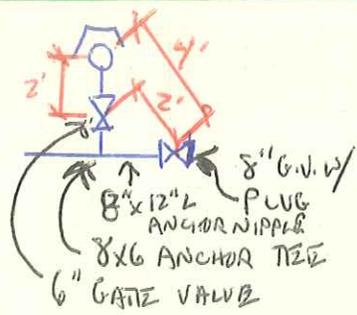
TOWN OF HAMBURG  
 E.C.W.A.

HATN-837-2104  
 CURRENT FILE NO.  
 202100241  
 CURRENT PROJECT NO.

INSTALL APPROXIMATELY 350 LF OF  
 8" P.V.C. WATER MAIN FOR MAIN EXTENSION  
 4030 SOUTHWESTERN BLVD., TOWN OF HAMBURG  
 PN: 202100241 FN: HATN-837-2104



PLAN  
 NTS



BLACKTOP PARKING LOT

4030 SOUTHWESTERN BLVD. (DOLLAR GENERAL)

1" x 8" SADDLE W/ 1" COPR. STOP

SOUTHWESTERN BLVD (ORCHARD PARK)

PP NYSEG 10

PROJECT NO. 202100241  
 12/17/21  
 WRW  
 KANDY CO.



**ERIE COUNTY**  
**WATER AUTHORITY**  
 BUFFALO, NEW YORK

REVISED  
 DR.

REVISED  
 DR. R.D.C.

TOWN OF HAMBURG

H16-D40

DETAIL SHT. NO.

DATE:

DATE: 7/22/2016

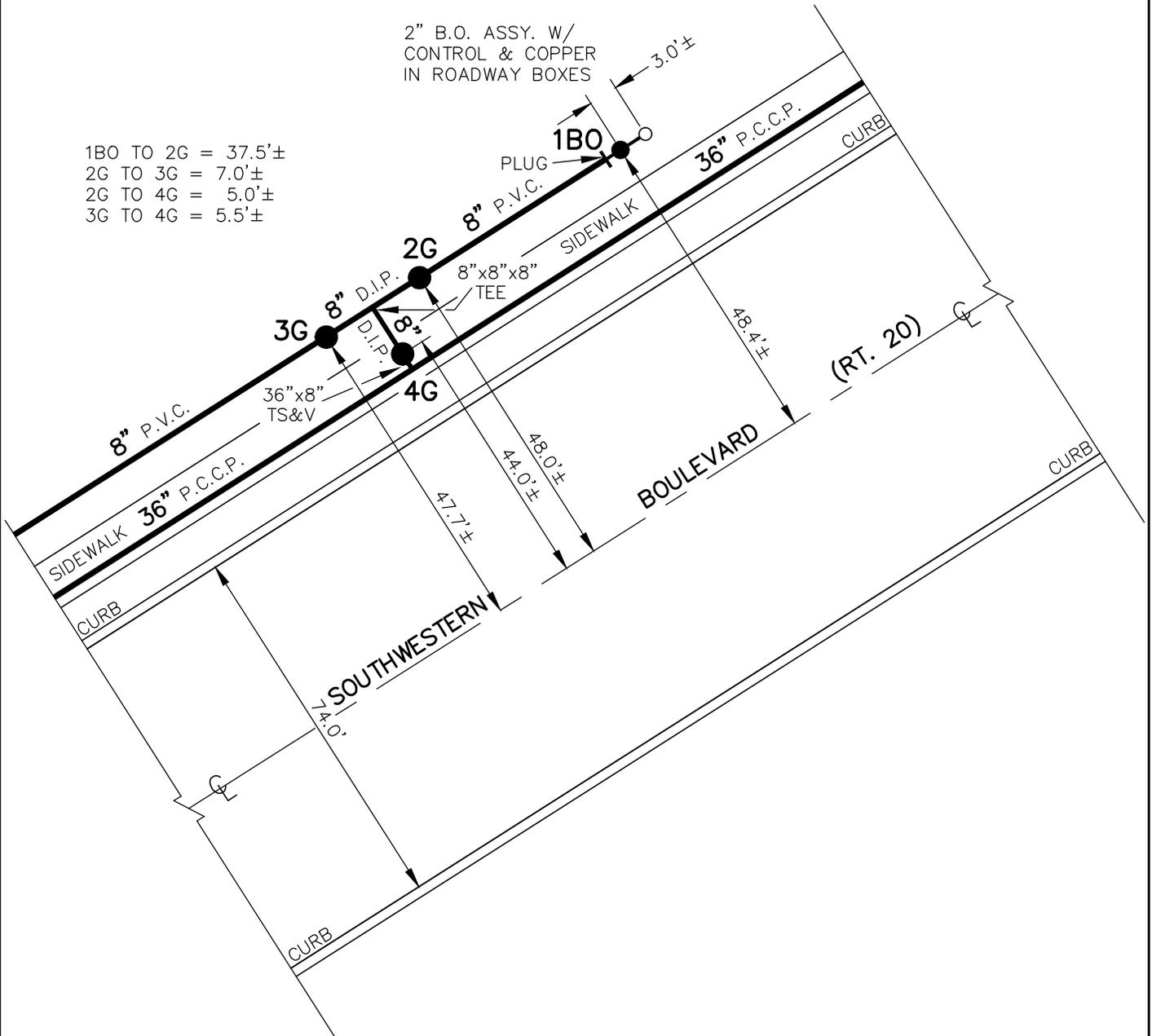
E.C.W.A.

200400117

CURRENT PROJECT NO.

FIELD

OFFICE

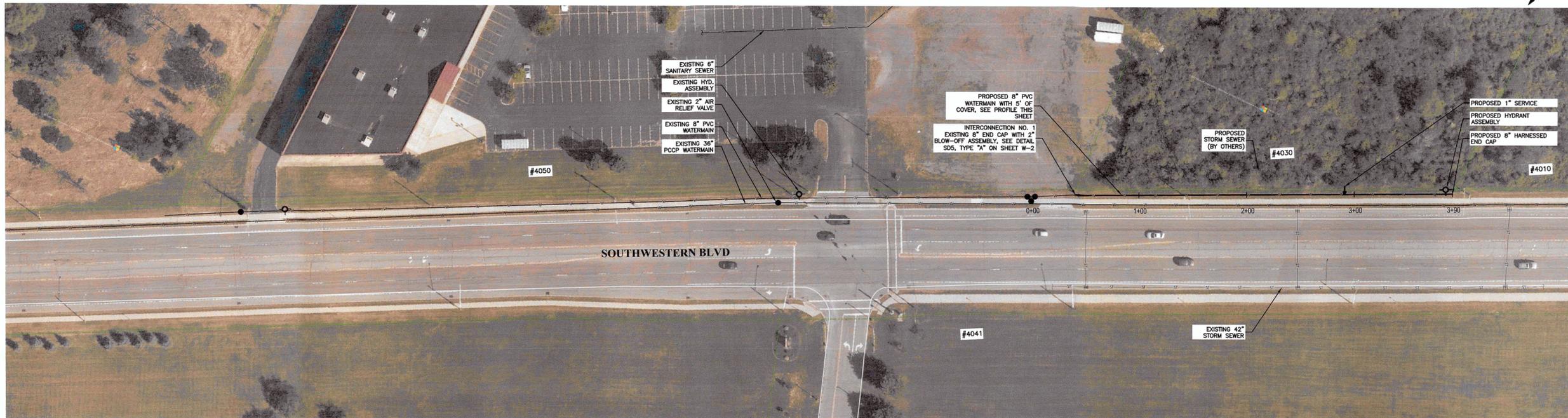


NOTE: ± DIMENSIONS ARE FROM  
 INSPECTOR'S FIELD BOOK,  
 NOT FIELD CHECKED. DETAIL  
 DRAWN ON CAD SYSTEM.

HWNY-837-0401  
 F.B. 458/60  
 HATN-837-9508-P  
 DWG. 15-1-02

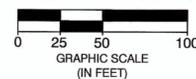
H16-D40  
 DETAIL SHT. NO.

**MASTER COPY**



**SOUTHWESTERN BLVD PLAN**

SCALE: 1" = 50'-0"



**A. SEQUENCE OF OPERATIONS**

- PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY ALL UTILITIES, PROPER AUTHORITIES, AND SECURE ALL REQUIRED PERMITS NOT PROVIDED BY ECWA. THE OUTLINED SEQUENCE OF OPERATIONS SHALL BE FOLLOWED DURING CONSTRUCTION OF THIS PROJECT AND ANY CHANGES TO THIS SEQUENCE MUST BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
- THE CONTRACTOR SHALL COMPLETE ALL OPERATIONS REQUIRED TO INSTALL ALL WATERMAINS AND FITTINGS. TEMPORARY END CAPS AND BLOW-OFF ASSEMBLIES SHALL BE INSTALLED ON THE WATERMAIN PRIOR TO INTERCONNECTION NO. 1 FOR TESTING AND FLUSHING.
- UTILIZING THE EXISTING 8" VALVE AT STA 0+00, THE CONTRACTOR SHALL FLUSH, TEST, AND DISINFECT THE PROPOSED WATERMAIN UNDER ITEMS B AND C.
- UPON SUCCESSFUL TESTING AND APPROVALS FROM GOVERNING AGENCIES, THE CONTRACTOR SHALL COMPLETE INTERCONNECTION NO. 1. TO COMPLETE INTERCONNECTION NO. 1, THE EXISTING 8" VALVE TIED DIRECTLY OFF THE 36" MAIN SHALL BE CLOSED. 4050 SOUTHWESTERN BLVD WILL NEED TO BE NOTIFIED OF SERVICE SHUT DOWN.

**B. WATERMAIN FLUSHING PROCEDURES**

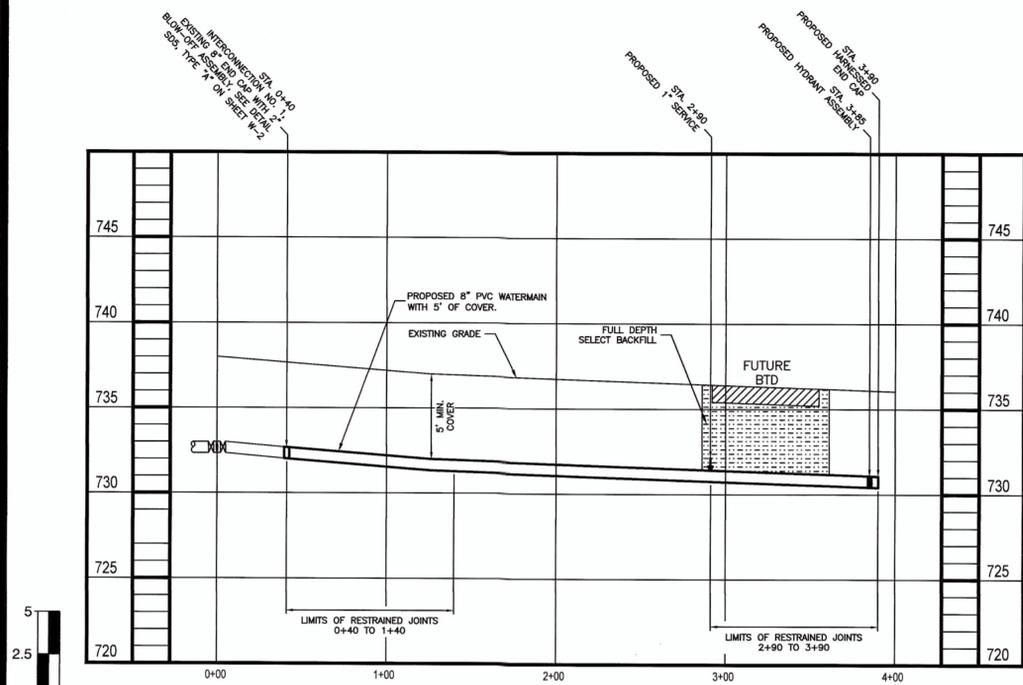
- INSTALL PROPOSED TESTING AND DISINFECTION APPARATUS PER STANDARD DETAIL SD23 BETWEEN THE EXISTING VALVE OF INTERCONNECTION NO. 1 AND THE PROPOSED WATERMAIN.
- OPEN HYDRANT INSTALLED AT STA 3+85.
- OPEN THE EXISTING VALVE TO PROVIDE WATER FOR REQUIRED FLUSHING. A MINIMUM FLUSHING VELOCITY OF 3.0 FPS (500 GPM FOR 8" MAIN) IS REQUIRED AND MUST BE ACHIEVED PER THE CONTRACT DOCUMENTS.
- UPON COMPLETION OF FLUSHING, CLOSE THE EXISTING VALVE AND HYDRANT.

**C. TESTING AND DISINFECTION PROCEDURES**

- FOLLOWING COMPLETION OF THE FLUSHING OPERATIONS OUTLINED UNDER ITEM B, THE WATERMAIN SHALL BE PRESSURE TESTED AT THE PRESSURES SHOWN ON DETAIL SD31 AND IN ACCORDANCE WITH THE CONTRACT SPECIFICATIONS. PRESSURE TEST AND LEAK TEST WILL BE PERFORMED CONCURRENTLY, THE PRESSURE TEST WILL BE CONDUCTED FOR A PERIOD OF 2 HOURS ON EACH TESTED SECTION.
- WATER USED FOR PRESSURE TESTING AND DISINFECTION WILL BE OBTAINED THROUGH THE PRESSURE TESTING AND DISINFECTION APPARATUS PREVIOUSLY INSTALLED UNDER ITEM B.1.
- FOLLOWING THE COMPLETION OF THE PRESSURE TESTING, THE WATERMAIN SHALL BE DISINFECTED IN ACCORDANCE WITH THE CONTRACT SPECIFICATIONS AND AS OUTLINE HEREIN.
- SAMPLE POINTS SHALL BE INSTALLED AT THE LOCATIONS SHOWN ON THE CONTRACT DRAWINGS AND SHALL BE USED FOR TAKING CHLORINE LEVEL READINGS AND FOR FINAL WATER SAMPLING.
- CHLORINE USED FOR THE DISINFECTION PROCEDURES SHALL BE LIQUID CHLORINE MIXED IN A TANK AND INTRODUCED INTO THE MAIN IN ACCORDANCE WITH THE PRESSURE TESTING AND DISINFECTION APPARATUS STANDARD DETAIL SD23.
- THE WATERMAIN SHALL BE DISINFECTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT SPECIFICATIONS. UPON COMPLETION OF THE DISINFECTION OPERATION, THE WATERMAIN SHALL BE FLUSHED UNTIL SUCH TIME AS THE CHLORINE RESIDUAL IS BETWEEN 0.5 AND 1.2 MG/L. THE CONTENTS OF THE WATERMAIN SHALL BE EMPTIED INTO A TANK AND NEUTRALIZED IN ACCORDANCE WITH AWWA C-651 SPECIFICATIONS.
- BACTERIOLOGICAL TESTING SAMPLES SHALL BE TAKEN AT INTERVALS OUTLINED IN THE SPECIFICATIONS AND TESTED BY AN APPROVED LABORATORY. UPON COMPLETION OF THE TESTING AND DISINFECTION PROCEDURES AND FINAL APPROVAL OF THE RESULTS HAVE BEEN OBTAINED, REMOVE THE PRESSURE TESTING AND DISINFECTION APPARATUS AND COMPLETE ALL INTERCONNECTIONS.

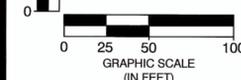
**PROJECT ESTIMATE: \$67,925.00**

- ITEM 1 - WATERMAIN
  - ITEM 1A1 - 350 LF @ \$80.00 / LF = \$28,000.00
- ITEM 3 - EXISTING WATERMAIN CONNECTIONS (INTERCONNECTIONS)
- ITEM 4 - FIRE HYDRANTS
- ITEM 4A1 - 1 @ \$2,500.00 EA = \$2,500.00
- ITEM 5 - DUCTILE IRON (DI) FITTINGS
- ITEM 5A1 - 2 @ \$250 EA = \$500.00
- (1- 8"x8"x6" TEE AND 1- END CAP)
- ITEM 6 - POLYETHYLENE ENCASEMENT
- ITEM 6A1 - 350 LF @ \$1.00 / LF = \$350.00
- ITEM 8 - SELECT BACKFILL
- ITEM 8A1 - 40 CY @ \$55.00 / CY = \$2,200.00
- ITEM 9 - WATER SERVICE CONNECTIONS AND BLOW-OFFS
- ITEM 9A1 - 1 @ \$1,975.00 EA = \$1,975.00
- ITEM 12 - TESTING AND DISINFECTION
- ITEM 12A1 - 350 LF @ \$55.00 / LF = \$19,250.00
- ITEM 13 - PAVEMENT, SIDEWALK, DRIVEWAY, LAWN, AND LANDSCAPE RESTORATION
- ITEM 13F1 - 390 SY @ \$30.00 / SY = \$11,700.00



**PROFILE**

SCALE: HORZ. 1" = 50'-0"  
VERT. 1" = 5'-0"

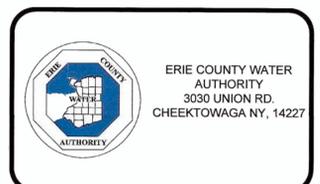
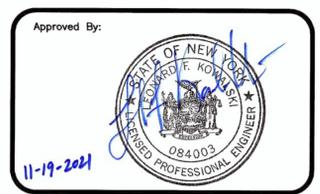


**General Notes**

- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ERIE COUNTY WATER AUTHORITY STANDARD DETAILS AND SPECIFICATIONS, ECWA PN: 202100009
- WATERMAINS SHALL BE PRESSURE TESTED IN ACCORDANCE WITH AWWA C600
- WATERMAINS SHALL BE TESTED AND DISINFECTED IN ACCORDANCE WITH AWWA STANDARD C651, HOWEVER THE TABLET METHOD IS NOT ALLOWED
- TWO SETS OF WATER BACTERIOLOGICAL SAMPLES SHALL BE TAKEN AT LEAST 24 HOURS APART
- SEE STANDARD DETAIL GENERAL NOTES SECTION ON MISCELLANEOUS DETAILS
- CONTRACTOR TO PROVIDE MAINTENANCE AND PROTECTION OF TRAFFIC THROUGHOUT CONSTRUCTION
- SERVICE LOCATIONS ARE APPROXIMATIONS ONLY AND SHOULD BE FIELD CHECKED PRIOR TO CONSTRUCTION

**Legend**

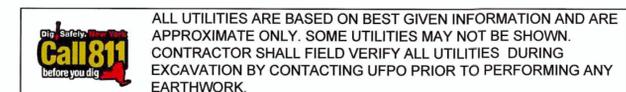
- ⊙ = SANITARY MH
- ⊕ = TRAFFIC MH
- ⊗ = STORM MH
- ⊞ = CATCH BASIN
- ⊚ = UTILITY POLE
- ⊛ = FIRE HYDRANT
- ⊙ = WATER VALVE
- ⊙ = TREES
- = EXISTING WATERLINE
- = NEW WATERLINE
- = SANITARY SEWER
- = STORM SEWER
- = GAS MAIN

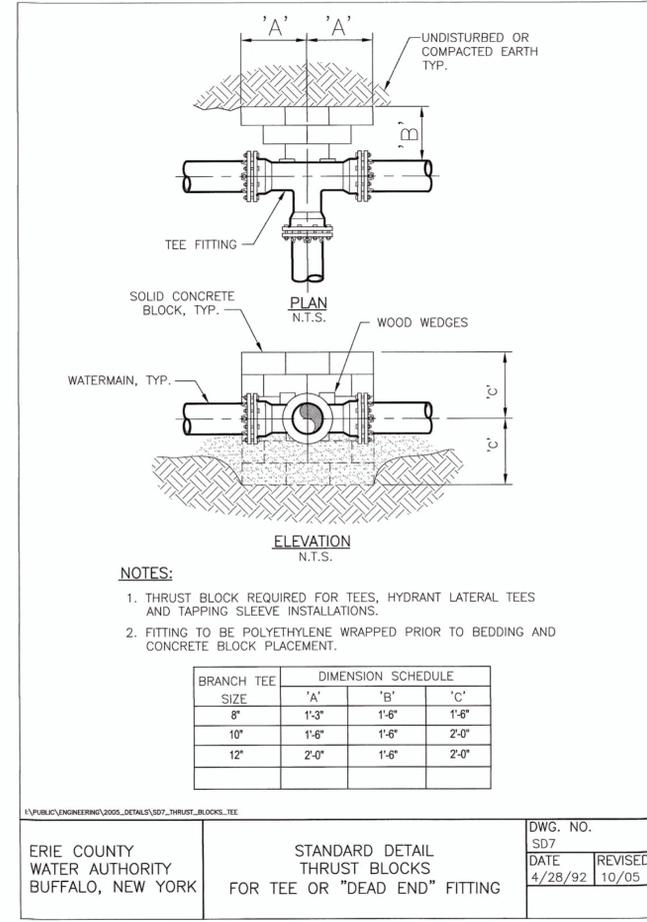
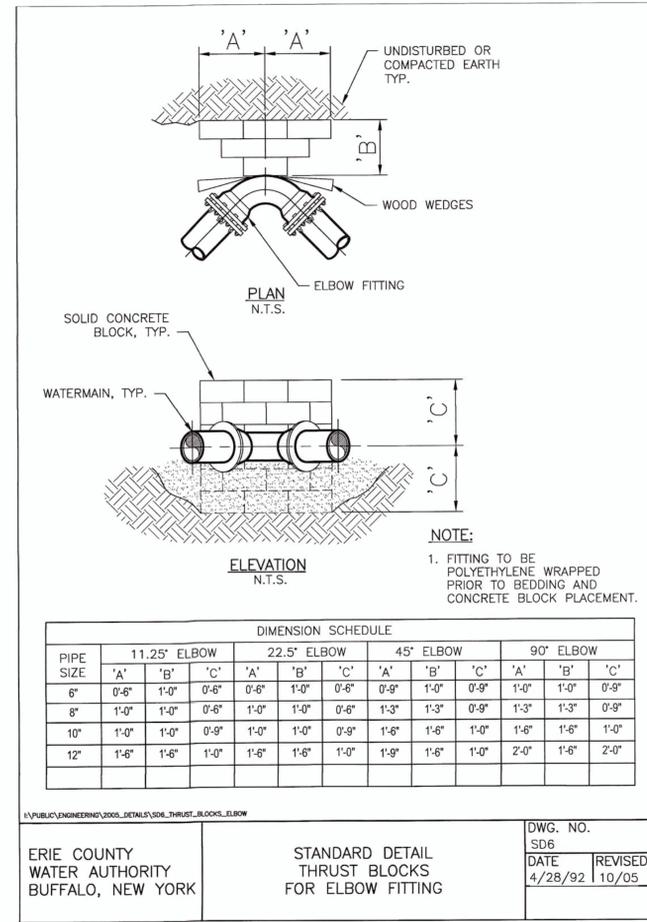
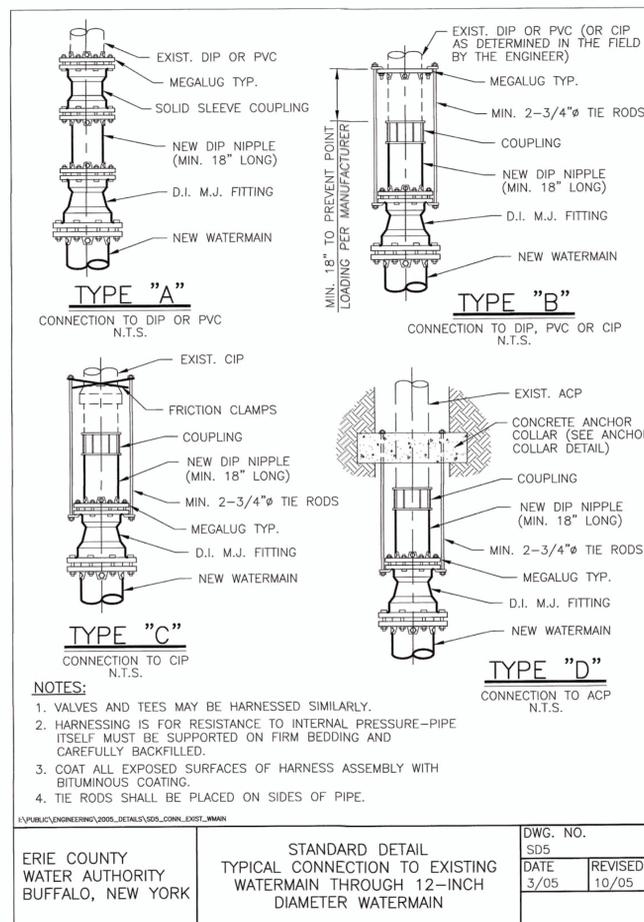
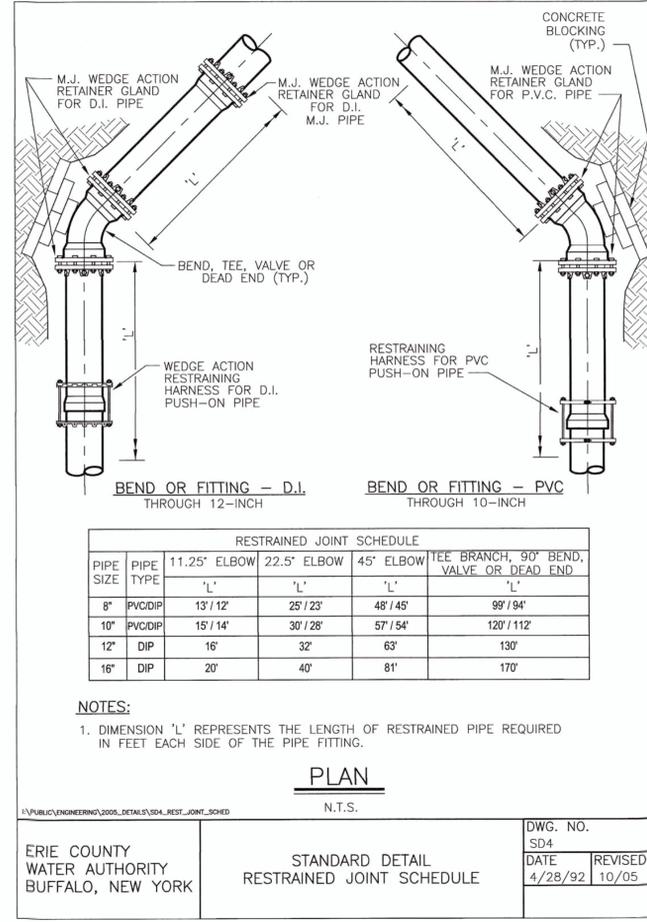
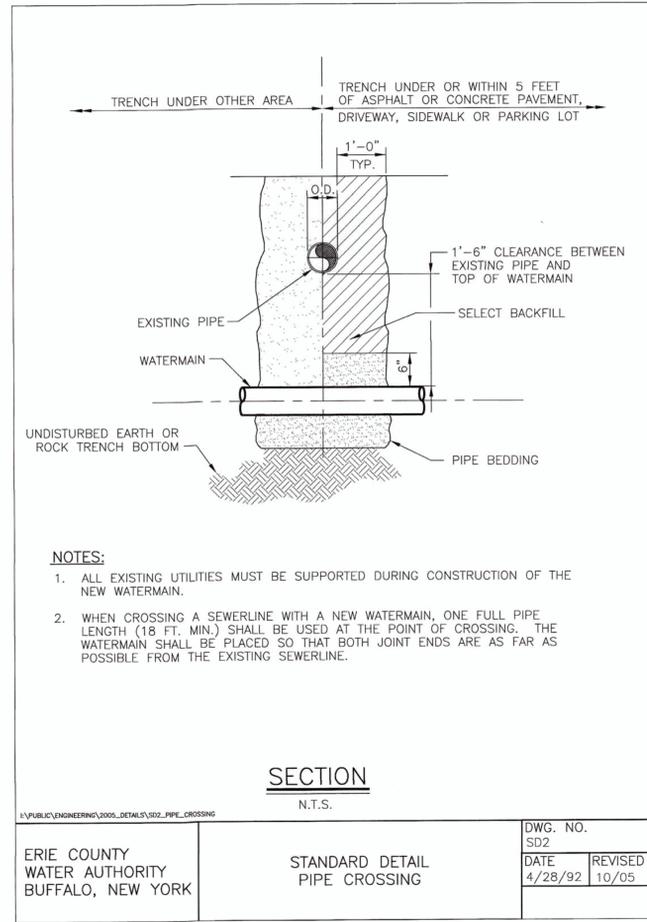
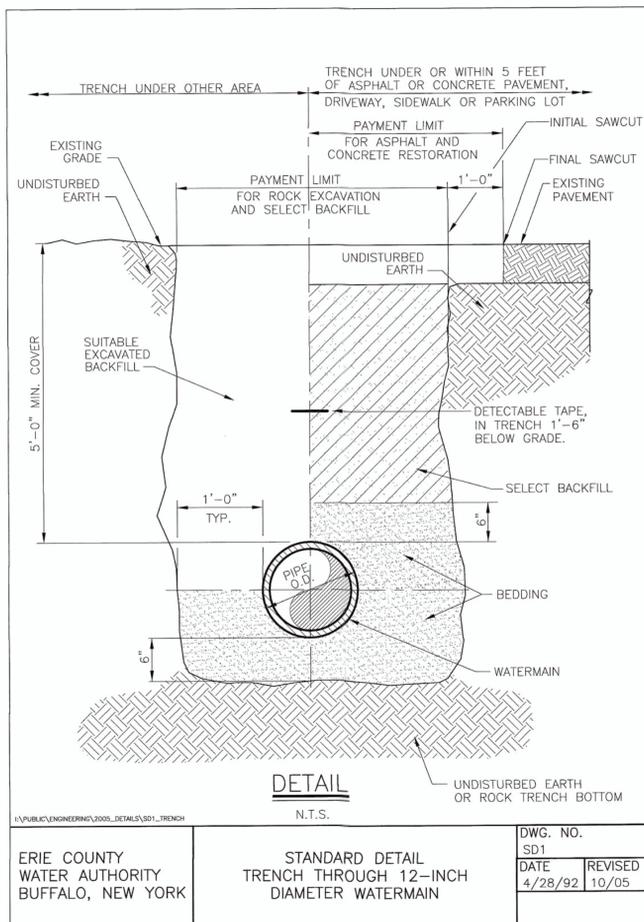


Project Name  
**SOUTHWESTERN BLVD  
#4030 MAIN EXTENSION  
ECWA PN202100241**

TOWN OF HAMBURG  
ERIE COUNTY - NEW YORK

SOUTHWESTERN BLVD Name/PLAN / PROFILE		Sheet
Date	NOVEMBER 2021	<b>W-1</b>
Scale:	AS SHOWN	
Drawn/Revised By:	WWW	Page: 1 of 4
		File Name: 20210041 - SOUTHWESTERN 4030 MAIN EXTENSION





General Notes

Legend

Approved By:

ERIE COUNTY WATER AUTHORITY  
3030 UNION RD.  
CHEEKTOWAGA NY, 14227

Project Name  
**SOUTHWESTERN BLVD  
#4030 MAIN EXTENSION  
ECWA PN202100241**  
TOWN OF HAMBURG  
ERIE COUNTY - NEW YORK

MISCELLANEOUS DETAILS  
Date: **NOVEMBER 2021**  
Scale: **AS SHOWN**

Sheet **W-2**  
Page: 2 of 4  
File Name: 202100241 - SOUTHWESTERN 4030 MAIN EXTENSION

General Notes

**NOTE:**  
1. FITTING AND ALL RESTRAINTS TO BE POLYETHYLENE WRAPPED PRIOR TO CONCRETE PLACEMENT.

DIMENSION SCHEDULE												
PIPE SIZE	PIPE TYPE	11.25° ELBOW			22.5° ELBOW			45° ELBOW			ROD Ø	
		'A'	'W'	'L'	'A'	'W'	'L'	'A'	'W'	'L'		
8"	PVC/DIP	1'-0"	3'-0"	1/2"	1'-0"	3'-6"	3'-6"	1/2"	1'-0"	4'-0"	4'-0"	1/2"
10"	PVC/DIP	1'-0"	3'-6"	3'-6"	1'-0"	4'-0"	4'-0"	1/2"	1'-0"	4'-6"	4'-9"	1/2"
12"	DIP	1'-0"	4'-0"	4'-0"	1'-0"	4'-6"	4'-6"	1/2"	1'-0"	5'-0"	5'-0"	1/2"

ERIE COUNTY WATER AUTHORITY  
BUFFALO, NEW YORK

STANDARD DETAIL  
THRUST BLOCKS  
FOR VERTICAL BEND

DWG. NO. SD8  
DATE 4/28/92  
REVISED 10/05

**NOTE:**  
1. AFTER COMPLETION OF TEST, REPLACE CORPORATION STOP IN PIPE OR SERVICE SADDLE WITH A THREADED BRASS PLUG.

ERIE COUNTY WATER AUTHORITY  
BUFFALO, NEW YORK

STANDARD DETAIL  
TEMPORARY  
BLOW-OFF/SAMPLING POINT

DWG. NO. SD17  
DATE 4/28/92  
REVISED 10/05

**NOTES:**  
1. EXISTING SERVICES SHALL BE CRIMPED AND ABANDONED IN PLACE.  
2. SERVICE SADDLES SHALL BE USED UNDER THE FOLLOWING CONDITIONS:  
A. WHEN SERVICES ARE PLACED ON 4" OR SMALLER PIPES.  
B. WHEN SERVICES LARGER THAN 1" ARE PLACED ON A 6" PIPE.  
C. WHEN SERVICES LARGER THAN 1 1/2" ARE PLACED ON AN 8" PIPE.  
D. WHEN SERVICES LARGER THAN 1 1/2" ARE PLACED ON DUCTILE IRON PIPE.  
E. WHEN TAPPING ALL PLASTIC (PVC) PIPE.  
F. WHEN TAPPING ALL ASBESTOS-CEMENT PIPE.  
3. CURB BOXES SHALL NOT BE PLACED IN SIDEWALKS, DRIVEWAYS, OR CURB RAMPS.  
4. UNIONS ON COPPER TUBING ARE NOT ALLOWED UNLESS APPROVED BY ECWA PRIOR TO INSTALLATION.

ERIE COUNTY WATER AUTHORITY  
BUFFALO, NEW YORK

STANDARD DETAIL  
NEAR SIDE  
SERVICE REPLACEMENT/INSTALLATION

DWG. NO. SD15  
DATE 4/92  
REVISED 09/16

**NOTES:**  
1. BACTERIOLOGICAL WATER SAMPLES SHALL BE TAKEN AT BEGINNING AND END OF NEW WATERMAIN SECTION AND AT MAXIMUM 1,000 FT. SPACINGS.  
2. PROVIDE CLEAN WATER SUPPLY FOR PRESSURE TESTING. PROVIDE CHLORINATED WATER SUPPLY FOR DISINFECTION.  
3. CAP OR PLUG WITH THREADED TAP OR APPROPRIATE TAP INTO MAIN. PROVIDE NECESSARY RESTRAINT AND BLOCKING.  
4. DIAMETER OF RESERVOIR SHALL BE 15" OR LESS. IF DIAMETER IS GREATER THAN 15", LEAKAGE TEST SHALL BE RUN A MINIMUM OF 4 HOURS.  
5. PRESSURE TEST CANNOT EXCEED 2,000 LINEAR FEET PER TEST SECTION.  
6. BACKFLOW PREVENTER TO BE SIZED TO ACHIEVE MIN 3 FPS SCOUR VELOCITY DURING FLUSHING OF NEW WATERLINE.

ERIE COUNTY WATER AUTHORITY  
BUFFALO, NEW YORK

STANDARD DETAIL  
PRESSURE TESTING AND  
DISINFECTION APPARATUS SCHEMATIC

DWG. NO. SD23  
DATE 6/00  
REVISED 7/18

**NOTES:**

- All elevations refer to USGS NAVD83 datum.
- The CONTRACTOR shall obtain necessary permits and furnish copies to the ENGINEER prior to commencing work.
- The CONTRACTOR'S work area shall be confined to the limits of the right-of-ways and easements. The CONTRACTOR shall obtain any additional easements or work releases should the CONTRACTOR require additional area to accommodate his operations.
- The CONTRACTOR shall provide maintenance and protection of traffic in accordance with the Erie County Highway Department standards and the NYSDOT Manual of Uniform Traffic Control Devices.
- The locations and depths of existing underground utilities as shown on the plans and profiles are approximate. Other underground utilities not shown may be encountered. The CONTRACTOR shall perform test pits to verify the location and elevation of utilities at interconnections and crossings as shown, directed, or required. The CONTRACTOR shall excavate in advance of the pipe laying operation and expose all existing underground utilities to prevent damage during construction and to determine required changes in grade necessary to install the watermain to avoid conflicts.
- The CONTRACTOR shall install those measures required to limit erosion of areas disturbed by the work. Clearing shall be performed on an as-needed basis, phased to reduce erosion and visual impact.
- Blasting will not be permitted.
- No more than one connection may be made to any existing watermain prior to testing, disinfection, and approval of the Waterline Installation Completed Works Approval Report(s) by the Erie County Water Authority and the Erie County Health Department.
- The Erie County Water Authority shall only operate existing valves and fire hydrants, including newly installed valves and fire hydrants that have been placed into service. The CONTRACTOR is advised that watertight conditions may not exist when existing valves are closed.
- The CONTRACTOR shall have all equipment, manpower, and materials required on site and ready for use prior to commencing any shut-down or removing any existing facilities from service. The CONTRACTOR shall notify all affected customers in writing of any shut-down at least 48 hours in advance. The CONTRACTOR shall notify the appropriate fire stations 48 hours in advance prior to taking any fire hydrants out of service. Any fire hydrants not in service shall be bagged in burlap or plastic. Any shut-down shall be limited to 4 consecutive hours. It may be necessary to schedule shut-downs at night, weekends, or other off hours so as to not affect schools, businesses or other customers, as determined by the ENGINEER. Shut-down requests shall be submitted to the Erie County Water Authority a minimum of 5 business days in advance of the requested shut-down date.

ERIE COUNTY WATER AUTHORITY  
BUFFALO, NEW YORK

STANDARD DETAIL  
GENERAL NOTES

DWG. NO. SD29  
DATE 3/05  
REVISED 7/17

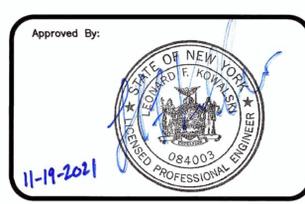
- All watermain piping shall be installed with a minimum of 5'-0" of cover.
- All watermain piping shall be installed with a minimum of 1'-6" of vertical clearance and 10'-0" of horizontal clearance from sanitary and storm piping, measured from the outside of the pipes at the point of crossing.
- If the material at the design grade is unsuitable as determined by the ENGINEER, the CONTRACTOR, when ordered in writing, shall excavate additional material to the depth necessary and shall backfill to the proposed grade with the select granular material.
- The installation of 90 degree bends in the watermain is not allowed, unless approved by the Erie County Water Authority.
- Thrust restraint for watermain piping through 12-inch diameter shall consist of thrust blocks and pipe joint restraint.
- The CONTRACTOR shall notify the owner of any utility pole in advance of any excavation work that will take place within 5'-0" of the utility pole. The CONTRACTOR shall include the cost of temporary pole support in the appropriate bid item. Where utility poles are required to be supported during construction, the CONTRACTOR shall make all necessary arrangements with the utility company.
- If materials are encountered during the construction that are suspected of being contaminated, the CONTRACTOR shall immediately notify the NYSDOC for direction regarding testing, separation, containment, and disposal procedures.
- Existing fire hydrants removed during construction and not reinstalled as part of the work shall be scheduled and returned to the Erie County Water Authority Service Center, 3030 Union Road, Cheektowaga, New York 14227.
- The CONTRACTOR shall cold patch all trench excavations in traveled areas including roads, driveways, sidewalks, and parking areas.
- The CONTRACTOR shall not restrict access for school buses or any emergency vehicles.
- The use of existing fire hydrants for any reason is prohibited without prior approval of the Erie County Water Authority. This includes newly installed fire hydrants that have been placed into service.
- The CONTRACTOR shall submit procedures for testing and disinfection of the watermain to the ENGINEER for review prior to the start of testing.
- The CONTRACTOR shall be present and assist in the Final Walk inspection. The CONTRACTOR shall provide sufficient personnel and equipment to demonstrate to the ENGINEER that all valves, fire hydrants, and curb stops operate as required.

ERIE COUNTY WATER AUTHORITY  
BUFFALO, NEW YORK

STANDARD DETAIL  
GENERAL NOTES

DWG. NO. SD30  
DATE 3/05  
REVISED 7/17

Legend



Project Name  
**SOUTHWESTERN BLVD  
#4030 MAIN EXTENSION  
ECWA PN202100241**  
TOWN OF HAMBURG  
ERIE COUNTY - NEW YORK

MISCELLANEOUS  
DETAILS  
Date  
NOVEMBER 2021  
Scale  
AS SHOWN  
Drawn/Revised By  
WWW

Sheet  
**W-3**  
Page: 3 of 4  
File Name:  
20210241 - SOUTHWESTERN  
4030 MAIN EXTENSION

Approved By:  
  
11-19-2021

Project Name  
**SOUTHWESTERN BLVD  
#4030 MAIN EXTENSION  
ECWA PN202100241**  
TOWN OF HAMBURG  
ERIE COUNTY - NEW YORK

MISCELLANEOUS DETAILS  
Date: NOVEMBER 2021  
Scale: AS SHOWN  
Drawn/Revised By: WWW  
Sheet: **W-4**  
Page: 4 of 4  
File Name: 20210241 - SOUTHWESTERN 4030 MAIN EXTENSION

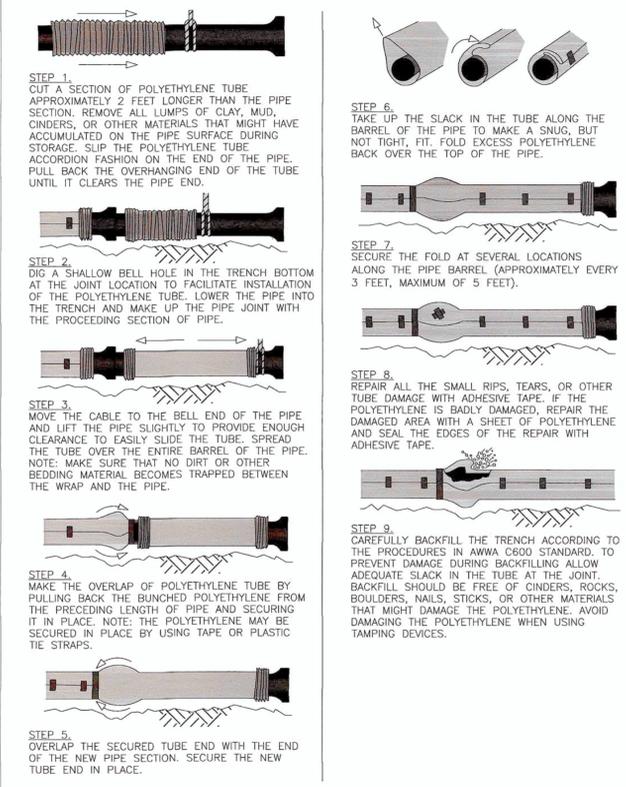
PIPE DIAMETER (in)	PIPE MATERIAL		WORKING PRESSURE (psi)	TEST PRESSURE (psi)
	Type	Rating		
8"	PVC	DR-18	100	175

\\PUBLIC\ENGINEERING\2006\_DETAILS\SD31\_PRESS\_TEST\_SCHD

ERIE COUNTY WATER AUTHORITY  
BUFFALO, NEW YORK

PRESSURE TESTING SCHEDULE

DWG. NO. SD31  
DATE 10/05  
REVISED

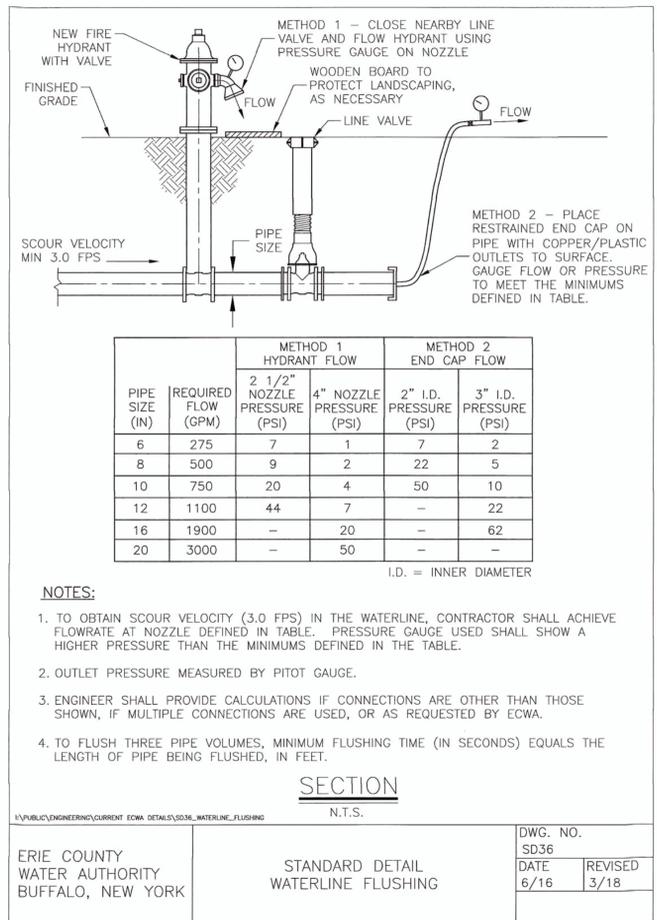


\\PUBLIC\ENGINEERING\CURRENT ECWA DETAILS\SD32\_POLY\_WRAP

ERIE COUNTY WATER AUTHORITY  
BUFFALO, NEW YORK

STANDARD DETAIL POLYETHYLENE ENCASEMENT OF DUCTILE IRON PIPE

DWG. NO. SD32  
DATE 06/16  
REVISED 07/16

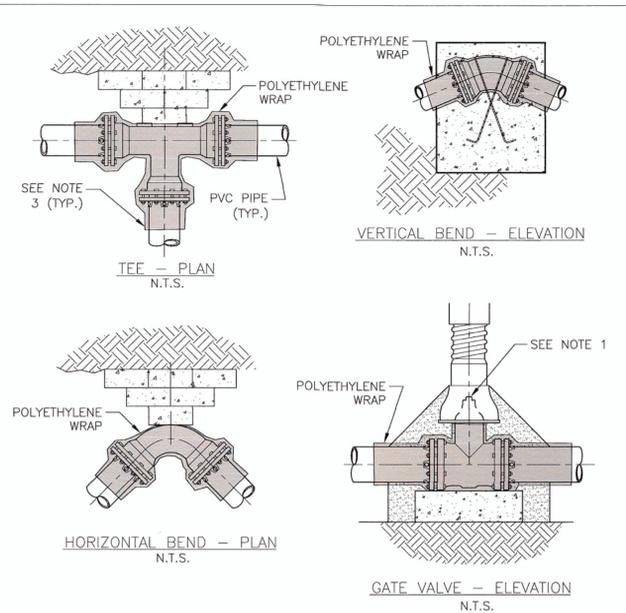


\\PUBLIC\ENGINEERING\CURRENT ECWA DETAILS\SD36\_WATERLINE\_FLUSHING

ERIE COUNTY WATER AUTHORITY  
BUFFALO, NEW YORK

STANDARD DETAIL WATERLINE FLUSHING

DWG. NO. SD36  
DATE 6/16  
REVISED 3/18



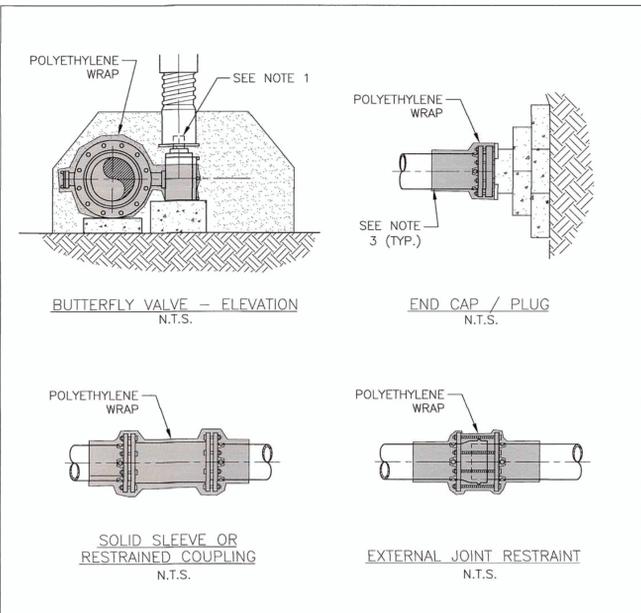
**NOTES:**  
1. POLYETHYLENE WRAP IS TO BE PLACED AROUND THE ENTIRE FITTING, AND SECURED IN PLACE WITH POLYETHYLENE TAPE. PROVIDE SUFFICIENT SLACK SO THAT POLYETHYLENE WRAP IS NOT PUNCTURED DURING BACKFILL AND DOES NOT ENTRAP AIR. POLYETHYLENE WRAP IS NOT TO BE INSTALLED WITHIN 6 INCHES OF VALVE OPERATING NUT ON VALVES.  
2. ALL FITTINGS TO BE POLYETHYLENE WRAPPED PRIOR TO BEDDING AND CONCRETE BLOCK PLACEMENT.  
3. POLYETHYLENE WRAP IS TO BE EXTENDED A MINIMUM OF 12" PAST THE FITTING ON EACH LEG AND SECURED TO THE PIPE (OR POLYWRAP IF DIP) WITH AT LEAST TWO CIRCUMFERENTIAL WRAPS OF POLYETHYLENE TAPE.

\\PUBLIC\ENGINEERING\CURRENT ECWA DETAILS\SD39\_POLYWRAPPING\_FITTINGS

ERIE COUNTY WATER AUTHORITY  
BUFFALO, NEW YORK

STANDARD DETAIL POLYWRAPPING CAST/DUCTILE IRON FITTINGS

DWG. NO. SD39A  
DATE 3/18  
REVISED 12/18



**NOTES:**  
1. POLYETHYLENE WRAP IS TO BE PLACED AROUND THE ENTIRE FITTING, AND SECURED IN PLACE WITH POLYETHYLENE TAPE. PROVIDE SUFFICIENT SLACK SO THAT POLYETHYLENE WRAP IS NOT PUNCTURED DURING BACKFILL AND DOES NOT ENTRAP AIR. POLYETHYLENE WRAP IS NOT TO BE INSTALLED WITHIN 6 INCHES OF VALVE OPERATING NUT ON VALVES.  
2. ALL FITTINGS TO BE POLYETHYLENE WRAPPED PRIOR TO BEDDING AND CONCRETE BLOCK PLACEMENT.  
3. POLYETHYLENE WRAP IS TO BE EXTENDED A MINIMUM OF 12" PAST THE FITTING ON EACH LEG AND SECURED TO THE PIPE (OR POLYWRAP IF DIP) WITH AT LEAST TWO CIRCUMFERENTIAL WRAPS OF POLYETHYLENE TAPE.

\\PUBLIC\ENGINEERING\CURRENT ECWA DETAILS\SD39\_POLYWRAPPING\_FITTINGS

ERIE COUNTY WATER AUTHORITY  
BUFFALO, NEW YORK

STANDARD DETAIL POLYWRAPPING CAST/DUCTILE IRON FITTINGS

DWG. NO. SD39B  
DATE 12/18  
REVISED

**ERIE COUNTY WATER AUTHORITY  
CONSTRUCTION AUTHORIZATION**

Project No. 202300047  
Budget No. \_\_\_\_\_

Authorization No.: EC 7318  
Date: 5/31/2022  
Inputted By/Date: \_\_\_\_\_

May 2023 Estimate Starting Date  
December 2023 Estimate Complete Date  
yes  no Retirement Involved  
X Public Street  
Private Right of Way  
On Authority's Prop  
Tax Districts \_\_\_\_\_  
Name of Grantor of Easement \_\_\_\_\_  
Date of Easement \_\_\_\_\_

**CLASS OF MAIN INSTALLATION:**  
X System Betterment  
Bldr/Cont/Dev. Agree.  
Owner Occupant Cont.  
Special Revenue Cont.

**TITLE OF PROJECT:** Hydrant G17-H56  
Replacement 5469 Camp Rd. in the Town of  
Hamburg.

**DETAILED DESCRIPTION AND PURPOSE:**  
Replace hydrant G17-H56, see CityWorks order  
#133420. Hydrant damaged during the December  
snowstorm. Work completed by Kandey Co. Paid  
by unit prices established under ECWA  
PN: 202100009 – Water Distribution System  
Replacements and Improvements Contract May 1,  
2021 to April 30, 2023.

**ESTIMATE COST**

(1) Total Est. Cost \$ 9,587.12  
(2) \_\_\_\_\_ Meters and Service @ \$ \_\_\_\_\_  
(3) Removal Cost Less Salvage \$ \_\_\_\_\_  
(4) Gross Investment \$ 9,587.12

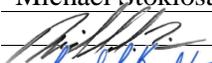
**DEDUCT**

(5) Const. Advance \$ \_\_\_\_\_  
(6) Service Conn. \$ \_\_\_\_\_  
(7) Refunds \$ \_\_\_\_\_  
(8) Net Auth. Invest. \$ 9,587.12

**BUDGETARY DATA**

(9) Tot. Budget Expnd. \$ \_\_\_\_\_  
(10) This Authorization \$ \_\_\_\_\_  
(11) Pre Approved \$ \_\_\_\_\_  
(12) Tot. Apvl. To Date \$ \_\_\_\_\_  
(13) Bal. Budget Expnd. \$ \_\_\_\_\_

**APPROVALS**

Preparation Michael Stoklosa  
Dir. of Dist.  2/27/2026  
Exec. Engr.  2/27/2026  
Admn. Director \_\_\_\_\_  
Legal Dept. \_\_\_\_\_  
Acct. Dept. \_\_\_\_\_

**ESTIMATED EARNINGS & RETURNS**

**ESTIMATED INCREASE IN REVENUES**

(14) \_\_\_\_\_ Customers @ \$ \_\_\_\_\_  
\$ \_\_\_\_\_  
(15) \_\_\_\_\_ Hydrants @ \$ \_\_\_\_\_  
\$ \_\_\_\_\_  
\$ \_\_\_\_\_

**EST. SAVINGS IN OPERATING EXPENSES**

(16) \_\_\_\_\_ \$ \_\_\_\_\_  
(17) Gross Increase in Earnings \$ \_\_\_\_\_

**REVENUE DEDUCTIONS**

(18) Operating Exp. \_\_\_\_\_ % \$ \_\_\_\_\_  
(19) Depreciation \$ \_\_\_\_\_  
(20) Total Deductions \$ \_\_\_\_\_  
(21) Net Income Loss \$ \_\_\_\_\_  
(22) % Return on Investment \_\_\_\_\_  
(21) divided by 8) \_\_\_\_\_ %

**RESOLUTION APPROVING**

Adopted \_\_\_\_\_  
Item No. \_\_\_\_\_

PROJECT NUMBER: 202300047  
EC/OWIP NUMBER: 107200-007318  
PROJECT DISCRPTION: Hydrant G17-H56 (Camp Road)

<i>BID ITEM #</i>	<i>EST. QUANTITY</i>	<i>UNIT</i>	<i>UNIT COST</i>	<i>MEASURED QUANTITY</i>	<i>AMOUNT</i>
1A1	3500	LF @	\$80.00	2.00	\$160.00
4A1	5	Ea @	\$1,450.00	1.00	\$1,450.00
4B1	5	Ea @	\$750.00	1.00	\$750.00
8A1	1800	CY @	\$55.00	3.88	\$213.40
13B10	50	SY @	\$50.00	5.55	\$277.50
13C2	400	SY @	\$150.00	5.55	\$832.50
13F1	3200	SY @	\$30.00	5.55	\$166.50
14A3	50	Hrs @	\$450.00	4.00	\$1,800.00
<i>TOTAL:</i>					<b>\$5,649.90</b>



NYS ITS GIS Program Office

### CAMP ROAD (HYDRANT G17H56)

February 28, 2023



ERIE COUNTY WATER  
AUTHORITY  
BUFFALO, NEW YORK



**ERIE COUNTY WATER AUTHORITY  
CONSTRUCTION AUTHORIZATION**

Project No. 202300047  
Budget No. \_\_\_\_\_

Authorization No.: EC 7319  
Date: 5/31/2022  
Inputted By/Date: \_\_\_\_\_

May 2023 Estimate Starting Date  
December 2023 Estimate Complete Date  
yes X no Retirement Involved  
X Public Street  
Private Right of Way  
On Authority's Prop  
Tax Districts \_\_\_\_\_  
Name of Grantor of Easement \_\_\_\_\_  
Date of Easement \_\_\_\_\_

**TITLE OF PROJECT:** Hydrant J15-A03  
Replacement 3018 Abbott Rd. in the Town of  
Hamburg.

**CLASS OF MAIN INSTALLATION:**  
X System Betterment  
Bldr/Cont/Dev. Agree.  
Owner Occupant Cont.  
Special Revenue Cont.

**DETAILED DESCRIPTION AND PURPOSE:**  
Replace hydrant J15-A03, see CityWorks order  
#133354. Hydrant damaged during the December  
snowstorm. Work completed by Kandey Co. Paid  
by unit prices established under ECWA  
PN: 202100009 – Water Distribution System  
Replacements and Improvements Contract May 1,  
2021 to April 30, 2023.

**ESTIMATE COST**

(1) Total Est. Cost \$ 7,116.28  
(2) \_\_\_\_\_ Meters and Service @ \$ \_\_\_\_\_  
(3) Removal Cost Less Salvage \$ \_\_\_\_\_  
(4) Gross Investment \$ 7,116.28

**DEDUCT**

(5) Const. Advance \$ \_\_\_\_\_  
(6) Service Conn. \$ \_\_\_\_\_  
(7) Refunds \$ \_\_\_\_\_  
(8) Net Auth. Invest. \$ 7,116.28

**BUDGETARY DATA**

(9) Tot. Budget Expnd. \$ \_\_\_\_\_  
(10) This Authorization \$ \_\_\_\_\_  
(11) Pre Approved \$ \_\_\_\_\_  
(12) Tot. Apvl. To Date \$ \_\_\_\_\_  
(13) Bal. Budget Expnd. \$ \_\_\_\_\_

**APPROVALS**

Preparation Michael Stoklosa  
Dir. of Dist. \_\_\_\_\_ 2/27/2026  
Exec. Engr. Jemard F. Konaleh 2/27/2026  
Admn. Director \_\_\_\_\_  
Legal Dept. \_\_\_\_\_  
Acct. Dept. \_\_\_\_\_

**ESTIMATED EARNINGS & RETURNS**

**ESTIMATED INCREASE IN REVENUES**

(14) Customers @ \$ \_\_\_\_\_  
\$ \_\_\_\_\_  
(15) Hydrants @ \$ \_\_\_\_\_  
\$ \_\_\_\_\_

**EST. SAVINGS IN OPERATING EXPENSES**

(16) \$ \_\_\_\_\_  
(17) Gross Increase in Earnings \$ \_\_\_\_\_

**REVENUE DEDUCTIONS**

(18) Operating Exp. \_\_\_\_\_ % \$ \_\_\_\_\_  
(19) Depreciation \$ \_\_\_\_\_  
(20) Total Deductions \$ \_\_\_\_\_  
(21) Net Income Loss \$ \_\_\_\_\_  
(22) % Return on Investment \_\_\_\_\_  
(21) divided by 8) \_\_\_\_\_ %

**RESOLUTION APPROVING**

Adopted \_\_\_\_\_  
Item No. \_\_\_\_\_

PROJECT NUMBER: 202300047  
EC/OWIP NUMBER: 107200-007319  
PROJECT DISCRIPTION: Hydrant J15-A03 (3112 Abbott Road)

<i>BID ITEM #</i>	<i>EST. QUANTITY</i>	<i>UNIT</i>	<i>UNIT COST</i>	<i>MEASURED QUANTITY</i>	<i>AMOUNT</i>
4A1	5	Ea @	\$1,450.00	1.00	\$1,450.00
4B1	5	Ea @	\$750.00	1.00	\$750.00
8A1	1800	CY @	\$55.00	12.96	\$712.80
13F1	3200	SY @	\$30.00	7.77	\$233.10
14A3	50	Hrs @	\$450.00	6.00	\$2,700.00
14B2	1	ALW	\$50,000.00	\$570.94	\$570.94
<i>TOTAL:</i>					<b>\$6,416.84</b>



REPLACEMENT  
OF HYDRANT  
J15A03

### ABBOTT ROAD (HYDRANT J15A03)

March 13, 2023



ERIE COUNTY WATER  
AUTHORITY  
BUFFALO, NEW YORK

16.1' 962.1'  
6" NA NYS ITS GIS Program Office



BLDG. #3108

12"x8" T.S.&V.

51.5'

5.31'

56.0'

12" E.C.M.A.

CURB

30.7'

O.P. W.D. #3

TOWN

CURB

GUTTER

8"

6"

8"

O.P. #3

11.62'

1G

16.71'

ABBOTT TOWN

OF

6"

CURB

GUTTER

LAKEVIEW AVE.

24.02'

D.I.P.

REC.

OF

RD.

HAMBURG

O.P. W.D. #3 A.I.P. ORCHARD

PARK

GUTTER

CURB

12" E.C.M.A. D.I.P.

CURB

OF

O.P. W.D. #3

30.9'

1.91'

LACY-002-7301-T15-A2  
OPWD-003-8000FD423  
OPWD-003-8000F-799  
FB 440/50

**EC** **ERIE COUNTY**  
**WA** **WATER AUTHORITY**  
BUFFALO, NEW YORK

REVISED DR. BY: JF  
DATE: 8-11-89  
NOT TO SCALE

TOWN OF HAMBURG  
E.C.W.A.  
TOWN OF ORCHARD PARK  
W.D. 3

J15-A03  
DETAIL SHEET NO.

**ERIE COUNTY WATER AUTHORITY  
CONSTRUCTION AUTHORIZATION**

Project No. 202300047  
Budget No. \_\_\_\_\_

Authorization No.: EC 7320  
Date: 5/31/2022  
Inputted By/Date: \_\_\_\_\_

May 2023 Estimate Starting Date  
December 2023 Estimate Complete Date  
yes  no Retirement Involved  
X Public Street  
Private Right of Way  
On Authority's Prop  
Tax Districts \_\_\_\_\_  
Name of Grantor of Easement \_\_\_\_\_  
Date of Easement \_\_\_\_\_

**CLASS OF MAIN INSTALLATION:**  
X System Betterment  
Bldr/Cont/Dev. Agree.  
Owner Occupant Cont.  
Special Revenue Cont.

**TITLE OF PROJECT:** Hydrant G16-E60  
Replacement Lake Shore Rd. at Rogers Rd.  
in the Town of Hamburg.

**DETAILED DESCRIPTION AND PURPOSE:**  
Replace hydrant G16-E60, see CityWorks order  
#131697. Hydrant damaged during the December  
snowstorm. Work completed by Kandey Co. Paid  
by unit prices established under ECWA  
PN: 202100009 – Water Distribution System  
Replacements and Improvements Contract May 1,  
2021 to April 30, 2023.

**ESTIMATE COST**

(1) Total Est. Cost \$ 9,468.95  
(2) \_\_\_\_\_ Meters and Service @ \$ \_\_\_\_\_  
(3) Removal Cost Less Salvage \$ \_\_\_\_\_  
(4) Gross Investment \$ 9,468.95

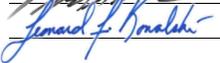
**DEDUCT**

(5) Const. Advance \$ \_\_\_\_\_  
(6) Service Conn. \$ \_\_\_\_\_  
(7) Refunds \$ \_\_\_\_\_  
(8) Net Auth. Invest. \$ 9,468.95

**BUDGETARY DATA**

(9) Tot. Budget Expnd. \$ \_\_\_\_\_  
(10) This Authorization \$ \_\_\_\_\_  
(11) Pre Approved \$ \_\_\_\_\_  
(12) Tot. Apvl. To Date \$ \_\_\_\_\_  
(13) Bal. Budget Expnd. \$ \_\_\_\_\_

**APPROVALS**

Preparation Michael Stoklosa  
Dir. of Dist.  2/27/2026  
Exec. Engr.  2/27/2026  
Admn. Director \_\_\_\_\_  
Legal Dept. \_\_\_\_\_  
Acct. Dept. \_\_\_\_\_

**ESTIMATED EARNINGS & RETURNS**

**ESTIMATED INCREASE IN REVENUES**

(14) Customers @ \$ \_\_\_\_\_  
\$ \_\_\_\_\_  
(15) Hydrants @ \$ \_\_\_\_\_  
\$ \_\_\_\_\_

**EST. SAVINGS IN OPERATING EXPENSES**

(16) \$ \_\_\_\_\_  
(17) Gross Increase in Earnings \$ \_\_\_\_\_

**REVENUE DEDUCTIONS**

(18) Operating Exp. \_\_\_\_\_ % \$ \_\_\_\_\_  
(19) Depreciation \$ \_\_\_\_\_  
(20) Total Deductions \$ \_\_\_\_\_  
(21) Net Income Loss \$ \_\_\_\_\_  
(22) % Return on Investment \_\_\_\_\_  
(21) divided by 8) \_\_\_\_\_ %

**RESOLUTION APPROVING**

Adopted \_\_\_\_\_  
Item No. \_\_\_\_\_

PROJECT NUMBER: 202300047  
EC/OWIP NUMBER: 107200-07320  
PROJECT DISCRIPTION: Hydrant G16-E60 (Rogers Road)

<i>BID ITEM #</i>	<i>EST. QUANTITY</i>	<i>UNIT</i>	<i>UNIT COST</i>	<i>MEASURED QUANTITY</i>	<i>AMOUNT</i>
4A1	5	Ea @	\$1,450.00	1.00	\$1,450.00
4B1	5	Ea @	\$750.00	1.00	\$750.00
8A1	1800	CY @	\$55.00	8.16	\$448.80
13B1	600	SY @	\$130.00	5.44	\$707.20
13B10	50	SY @	\$50.00	5.44	\$272.00
14A3	50	Hrs @	\$450.00	4.00	\$1,800.00
14B2	1	ALW	\$50,000.00	\$570.94	\$570.94
<i>TOTAL:</i>					<b>\$5,998.94</b>



NYS ITS GIS Program Office

### LAKESHORE ROAD (HYDRANT G16E60)

February 28, 2023



ERIE COUNTY WATER  
AUTHORITY  
BUFFALO, NEW YORK



ERIE COUNTY  
WATER AUTHORITY  
BUFFALO, NEW YORK

REV. DR. D.K.C. DR.

DATE: 10.5.07 DATE:

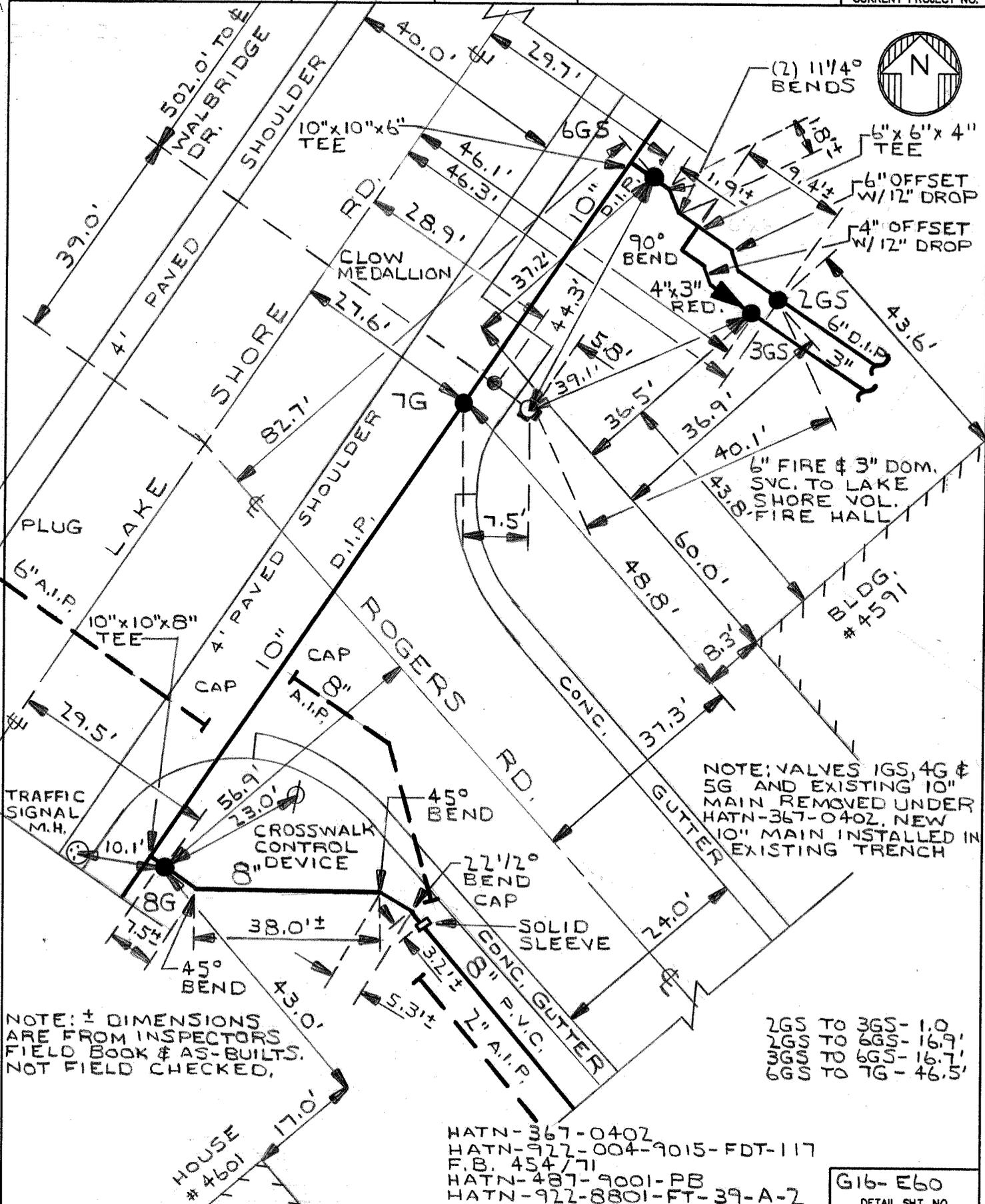
FIELD

OFFICE

TOWN OF HAMBURG  
WANAKAH W.D.

G16-E60  
DETAIL SHT. NO.

200400147  
CURRENT PROJECT NO.



NOTE: ± DIMENSIONS ARE FROM INSPECTORS FIELD BOOK & AS-BUILTS. NOT FIELD CHECKED.

NOTE: VALVES 1GS, 4G & 5G AND EXISTING 10" MAIN REMOVED UNDER HATN-367-0402. NEW 10" MAIN INSTALLED IN EXISTING TRENCH

2GS TO 3GS - 1.0'  
2GS TO 6GS - 16.9'  
3GS TO 6GS - 16.7'  
6GS TO 7G - 46.5'

HATN-367-0402  
HATN-922-004-9015-FDT-117  
F.B. 454/71  
HATN-487-9001-PB  
HATN-922-8801-FT-39-A-2

G16-E60  
DETAIL SHT. NO.

MASTER COPY

**ERIE COUNTY WATER AUTHORITY  
CONSTRUCTION AUTHORIZATION**

Project No. 202300047  
Budget No. \_\_\_\_\_

Authorization No.: EC 7321  
Date: 5/31/2022  
Inputted By/Date: \_\_\_\_\_

May 2023 Estimate Starting Date  
December 2023 Estimate Complete Date  
yes X no Retirement Involved  
X Public Street  
Private Right of Way  
On Authority's Prop  
Tax Districts \_\_\_\_\_  
Name of Grantor of Easement \_\_\_\_\_  
Date of Easement \_\_\_\_\_

**TITLE OF PROJECT:** Hydrant H21-E37  
Replacement, 3987 Shintzius Rd. in the Town of  
Eden.

**DETAILED DESCRIPTION AND PURPOSE:**  
Replace hydrant H21-E37, see CityWorks order  
#69219. Hydrant damaged during the December  
snowstorm.

**CLASS OF MAIN INSTALLATION:**  
X System Betterment  
Bldr/Cont/Dev. Agree.  
Owner Occupant Cont.  
Special Revenue Cont.

**ESTIMATE COST**

(1) Total Est. Cost \$ 8,799.85  
(2) \_\_\_\_\_ Meters and Service @ \$ \_\_\_\_\_  
(3) Removal Cost Less Salvage \$ \_\_\_\_\_  
(4) Gross Investment \$ 8,799.85

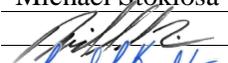
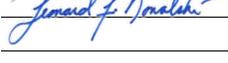
**DEDUCT**

(5) Const. Advance \$ \_\_\_\_\_  
(6) Service Conn. \$ \_\_\_\_\_  
(7) Refunds \$ \_\_\_\_\_  
(8) Net Auth. Invest. \$ 8,799.85

**BUDGETARY DATA**

(9) Tot. Budget Expnd. \$ \_\_\_\_\_  
(10) This Authorization \$ \_\_\_\_\_  
(11) Pre Approved \$ \_\_\_\_\_  
(12) Tot. Apvl. To Date \$ \_\_\_\_\_  
(13) Bal. Budget Expnd. \$ \_\_\_\_\_

**APPROVALS**

Preparation Michael Stoklosa  
Dir. of Dist.  2/27/2026  
Exec. Engr.  3/4/2026  
Admn. Director \_\_\_\_\_  
Legal Dept. \_\_\_\_\_  
Acct. Dept. \_\_\_\_\_

**ESTIMATED EARNINGS & RETURNS**

**ESTIMATED INCREASE IN REVENUES**

(14) Customers @ \$ \_\_\_\_\_  
\$ \_\_\_\_\_  
(15) Hydrants @ \$ \_\_\_\_\_  
\$ \_\_\_\_\_

**EST. SAVINGS IN OPERATING EXPENSES**

(16) \$ \_\_\_\_\_  
(17) Gross Increase in Earnings \$ \_\_\_\_\_

**REVENUE DEDUCTIONS**

(18) Operating Exp. \_\_\_\_\_ % \$ \_\_\_\_\_  
(19) Depreciation \$ \_\_\_\_\_  
(20) Total Deductions \$ \_\_\_\_\_  
(21) Net Income Loss \$ \_\_\_\_\_  
(22) % Return on Investment \_\_\_\_\_  
(21) divided by 8) \_\_\_\_\_ %

**RESOLUTION APPROVING**

Adopted \_\_\_\_\_  
Item No. \_\_\_\_\_

PROJECT NUMBER: 202300047  
EC/OWIP NUMBER: 107200-007321  
PROJECT DISCRIPTION: Hydrant H21-E37 (Schintzius Road)

<i>BID ITEM #</i>	<i>EST. QUANTITY</i>	<i>UNIT</i>	<i>UNIT COST</i>	<i>MEASURED QUANTITY</i>	<i>AMOUNT</i>
4A1	5	Ea @	\$1,450.00	1.00	\$1,450.00
4B1	5	Ea @	\$750.00	1.00	\$750.00
13F1	3200	SY @	\$30.00	6.66	\$199.80
14A3	50	Hrs @	\$450.00	6.00	\$2,700.00
<i>TOTAL:</i>					<b>\$5,099.80</b>



NYS ITS GIS Program Office

### SCHINTZIUS ROAD (HYDRANT H21E37)

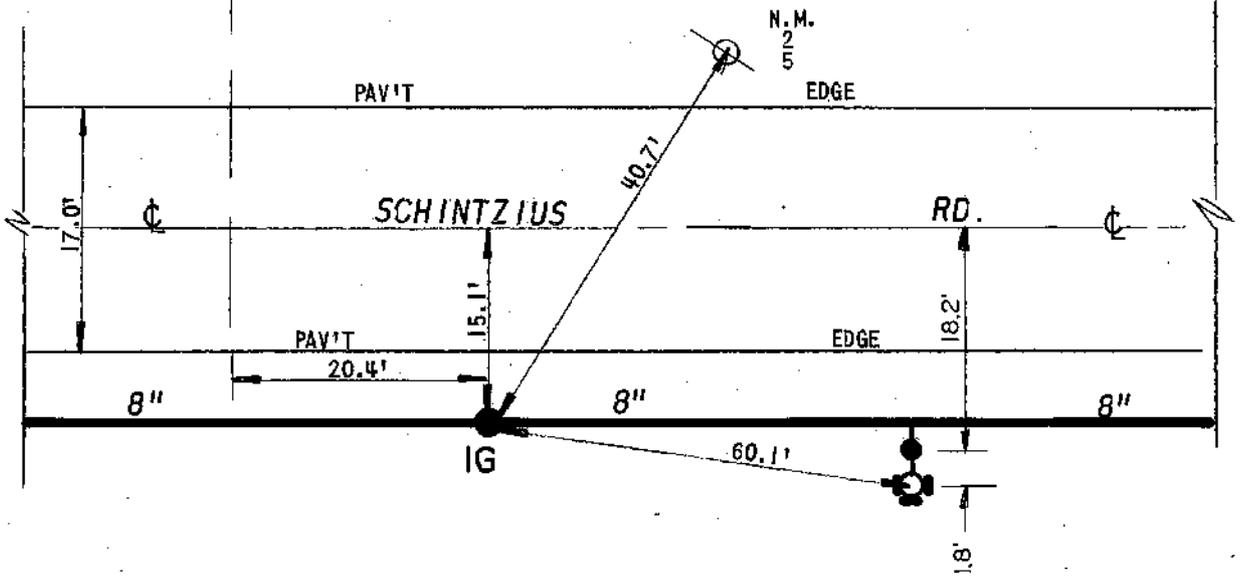
March 22, 2023



ERIE COUNTY WATER AUTHORITY  
BUFFALO, NEW YORK



HOUSE  
#3972



EDWD -007 -0005F  
DWG T15-C2

**EC** **ERIE COUNTY**  
**WA** **WATER AUTHORITY**  
BUFFALO, NEW YORK

REVISED  
DR. BY: J.M.S.  
DATE: 8-8-95  
SCALE: NONE

TOWN OF EDEN  
W.D. 7

DETAIL SHEET NO.  
H21-E37

**ERIE COUNTY WATER AUTHORITY  
CONSTRUCTION AUTHORIZATION**

Project No. 202300280  
Budget No. \_\_\_\_\_

Authorization No.: EC 7386  
Date: 12/15/2023  
Inputted By/Date: \_\_\_\_\_

December 2023 Estimate Starting Date  
January 2024 Estimate Complete Date  
yes X no Retirement Involved  
X Public Street  
Private Right of Way  
On Authority's Prop  
Tax Districts \_\_\_\_\_  
Name of Grantor of Easement \_\_\_\_\_  
Date of Easement \_\_\_\_\_

**TITLE OF PROJECT:** Big Tree Rd. #4410 & Burke Pkwy Hydraulic Improvements.

**CLASS OF MAIN INSTALLATION:**  
X System Betterment  
Bldr/Cont/Dev. Agree.  
Owner Occupant Cont.  
Special Revenue Cont.

**DETAILED DESCRIPTION AND PURPOSE:**  
Installation of a new Hydrant at #4410 Big Tree Rd. and abandonment of 1-inch main and transfer of services. (4167 & 4183 Burke PKWY)

**ESTIMATE COST**

(1) Total Est. Cost \$ 29,193.87  
(2) \_\_\_\_\_ Meters and Service @ \$ \_\_\_\_\_  
(3) Removal Cost Less Salvage \$ \_\_\_\_\_  
(4) Gross Investment \$ 29,193.87

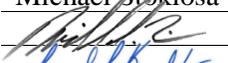
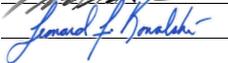
**DEDUCT**

(5) Const. Advance \$ \_\_\_\_\_  
(6) Service Conn. \$ \_\_\_\_\_  
(7) Refunds \$ \_\_\_\_\_  
(8) Net Auth. Invest. \$ 29,193.87

**BUDGETARY DATA**

(9) Tot. Budget Expnd. \$ \_\_\_\_\_  
(10) This Authorization \$ \_\_\_\_\_  
(11) Pre Approved \$ \_\_\_\_\_  
(12) Tot. Apvl. To Date \$ \_\_\_\_\_  
(13) Bal. Budget Expnd. \$ \_\_\_\_\_

**APPROVALS**

Preparation Michael Stoklosa  
Dir. of Dist.  2/27/2026  
Exec. Engr.  3/4/2026  
Admn. Director \_\_\_\_\_  
Legal Dept. \_\_\_\_\_  
Acct. Dept. \_\_\_\_\_

**ESTIMATED EARNINGS & RETURNS**

**ESTIMATED INCREASE IN REVENUES**

(14) Customers @ \$ \_\_\_\_\_  
\$ \_\_\_\_\_  
(15) Hydrants @ \$ \_\_\_\_\_  
\$ \_\_\_\_\_

**EST. SAVINGS IN OPERATING EXPENSES**

(16) \$ \_\_\_\_\_  
(17) Gross Increase in Earnings \$ \_\_\_\_\_

**REVENUE DEDUCTIONS**

(18) Operating Exp. \_\_\_\_\_ % \$ \_\_\_\_\_  
(19) Depreciation \$ \_\_\_\_\_  
(20) Total Deductions \$ \_\_\_\_\_  
(21) Net Income Loss \$ \_\_\_\_\_  
(22) % Return on Investment \_\_\_\_\_  
(21) divided by 8) \_\_\_\_\_ %

**RESOLUTION APPROVING**

Adopted \_\_\_\_\_  
Item No. \_\_\_\_\_

PROJECT NUMBER: 202300280  
 EC/OWIP NUMBER: 107200-007386  
 PROJECT DISCRIPTION: Big Tree Road - Hydrant Installation

<i>BID ITEM #</i>	<i>EST. QUANTITY</i>	<i>UNIT</i>	<i>UNIT COST</i>	<i>MEASURED QUANTITY</i>	<i>AMOUNT</i>
1A2	50	LF@	\$105.00	15.00	\$1,575.00
3A1	30	Ea@	\$2,675.00	1.00	\$2,675.00
4A1	10	Ea@	\$1,550.00	1.00	\$1,550.00
5A1	100	Ea@	\$270.00	5.00	\$1,350.00
7B1	10	Ea@	\$700.00	1.00	\$700.00
8A1	1800	CY@	\$60.00	27.00	\$1,620.00
9A1	20	Ea@	\$2,150.00	2.00	\$4,300.00
9B1	10	LF@	\$17.00	4.00	\$68.00
12A2	50	LF@	\$11.00	15.00	\$165.00
13B4	20	SY @	\$100.00	2.00	\$200.00
13C2	400	SY @	\$160.00	2.30	\$368.00
13F1	3200	SY @	\$33.00	60.00	\$1,980.00
14A1	200	Hrs @	\$550.00	3.00	\$1,650.00
14B2	1	ALW	\$100,000.00	937.97	\$937.97
<i>TOTAL:</i>					<b>\$19,138.97</b>



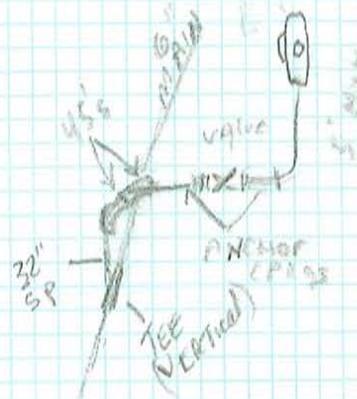
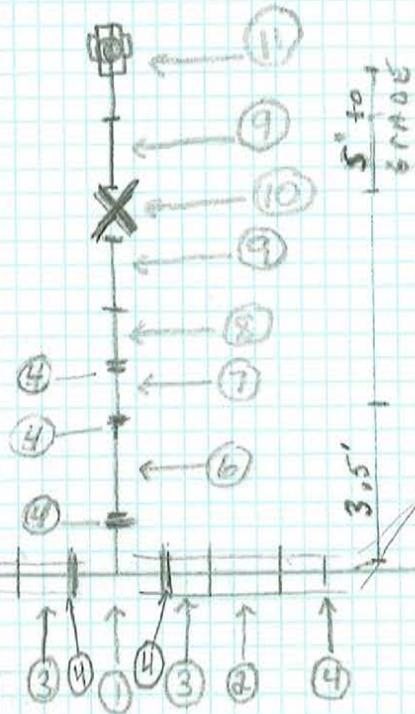
BIG TREE RD

Q of TEE to Existing VALVE is 10'  
Q of TEE to center of DI is 25'



DI

Existing 6" cip



SIDE VIEW PROFILE

Existing 6" VALVE

6" CIP

TEE AND 32" Spool piece ARE VERTICAL AND THE Bends ARE DOWN TO LEVEL TO GRADE.  
MAIN IS 8.5' TO top of PIPE

- ① 6x6x6 TEE
- ② 18" D.I. NIPPLES
- ③ 6" HYMAX
- ④ 6" Mega Lugs
- ⑤ 3/4" ALL THREAD
- ⑥ 32" Spool piece
- ⑦ STREET 45°
- ⑧ MJ 45°
- ⑨ 18" ANCHOR CPLG
- ⑩ 6" gate valve
- ⑪ 5' Hydrant

Big Tree RD  
Dead END  
Curb edge

# 4510

SCHULTZ  
New Tap on 6"  
1/22/24

Project # 202300280



4167  
Burke



GARAGE

BOX to MAIN 11'  
R of R 7.6'  
House to Box 69'

OLD  
Curbox  
Removed



1.6'  
Lor  
Driveway

DRIVEWAY

69'

3/4" SVC (NOT 1")

only 3' deep  
RAN UNDER GAS 6' 4.5'

Abandoned  
3/4" copper

4" GAS MAIN

7.6'

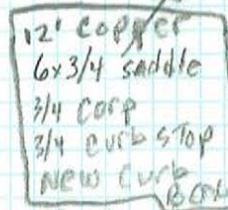
4" GAS MAIN

6" C.I.P

10'

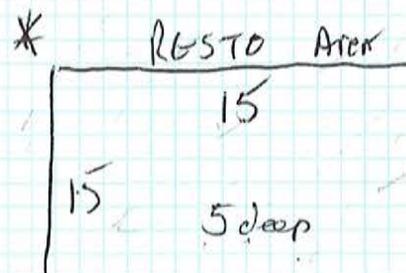
6" C.I.P.

ROAD EDGE



4" GAS CROSSING

13'



\* RGSTO Area

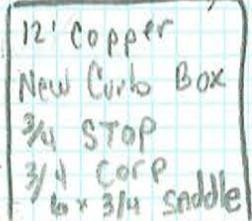
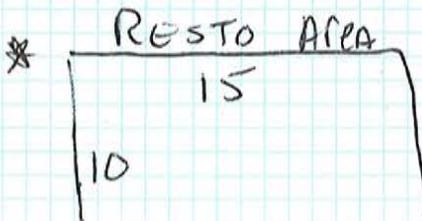
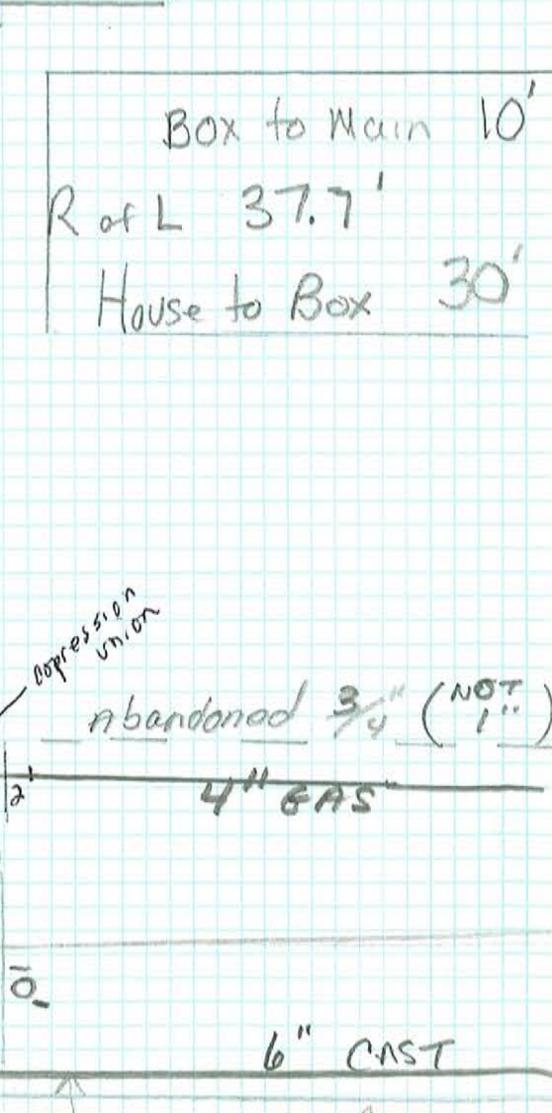
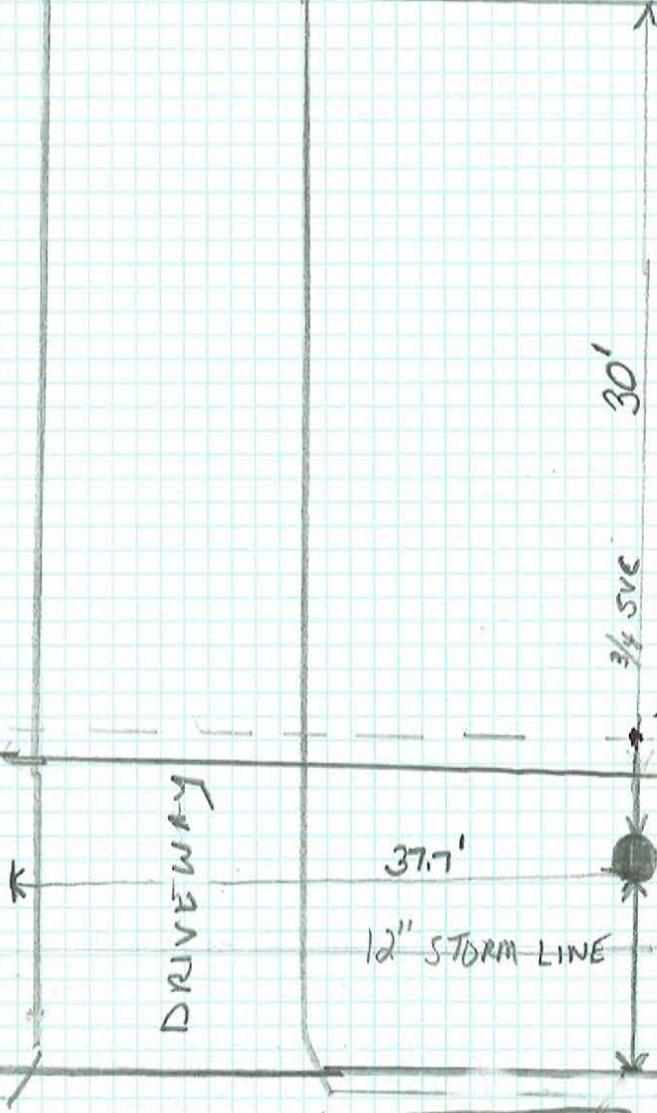
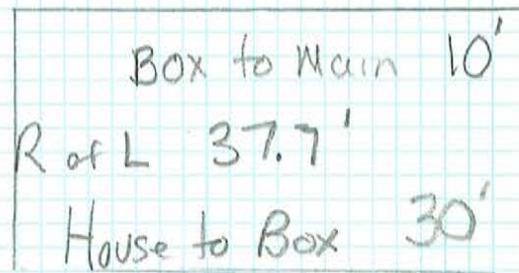
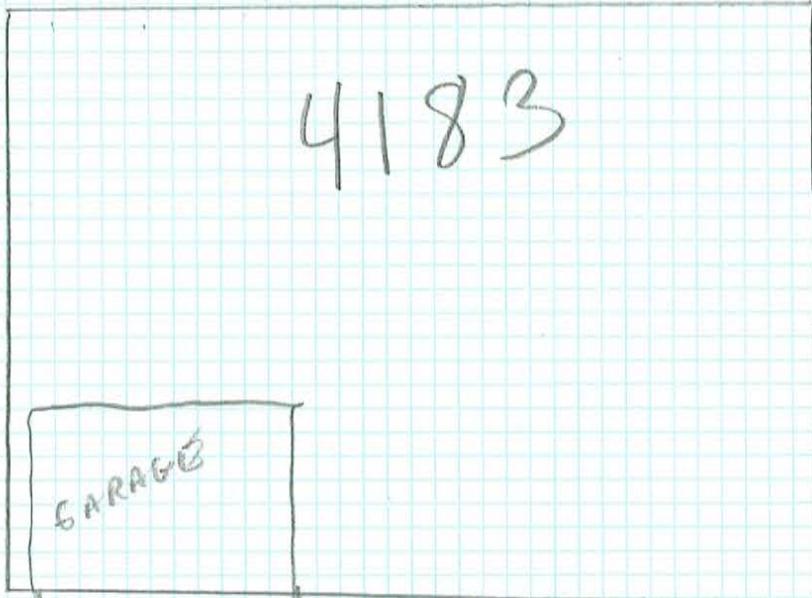
15

15

5 deep

Burke Rd

R. SCHULTZ  
New TAP 6"  
1/23/24  
Project # 202300280



South western

R SCHULTZ  
Project 202300280

3/4" Previously thought to  
be 1" Abandoned  
ON 1/23/24



Repair Clamp w  
Corp OFF AND  
6" of Copper Crimped

SCH 80  
PVC  
REPAIR  
MADE BY SEWER GUYS

Burke Pkwy

6" C.I.P.

12" STORM

6" C.I.P.

12.5

DEAD  
END

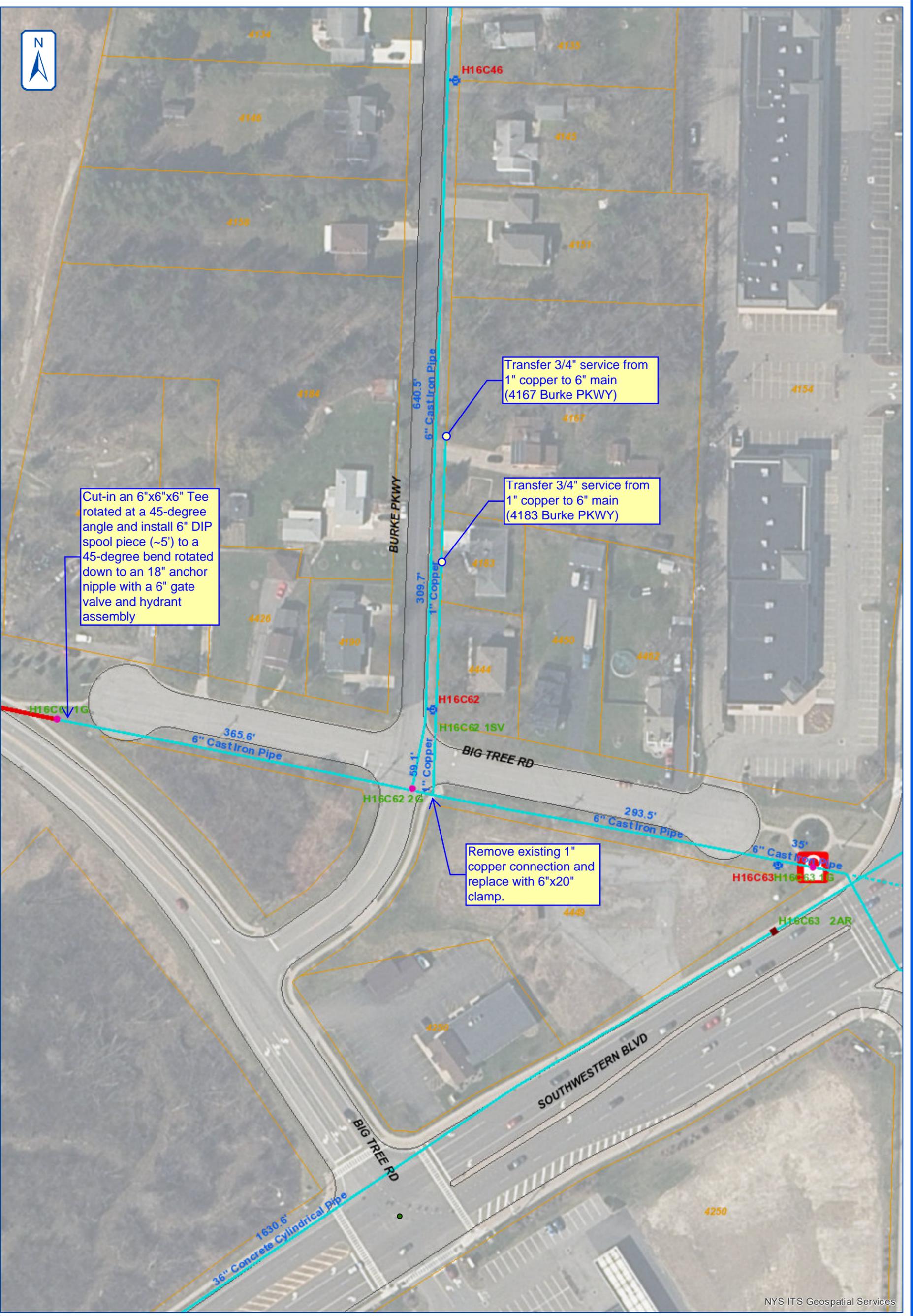
Big Tree Rd

6" MAIN

Big Tree Rd  
4444

Abandoned 3/4" (NOT 1")

RESTO AREA  
10  
10



NYS ITS Geospatial Services

## BIG TREE ROAD AND BURKE PARKWAY

December 13, 2023



ERIE COUNTY WATER AUTHORITY  
BUFFALO, NEW YORK



**ERIE COUNTY**  
**WATER AUTHORITY**  
 BUFFALO, NEW YORK

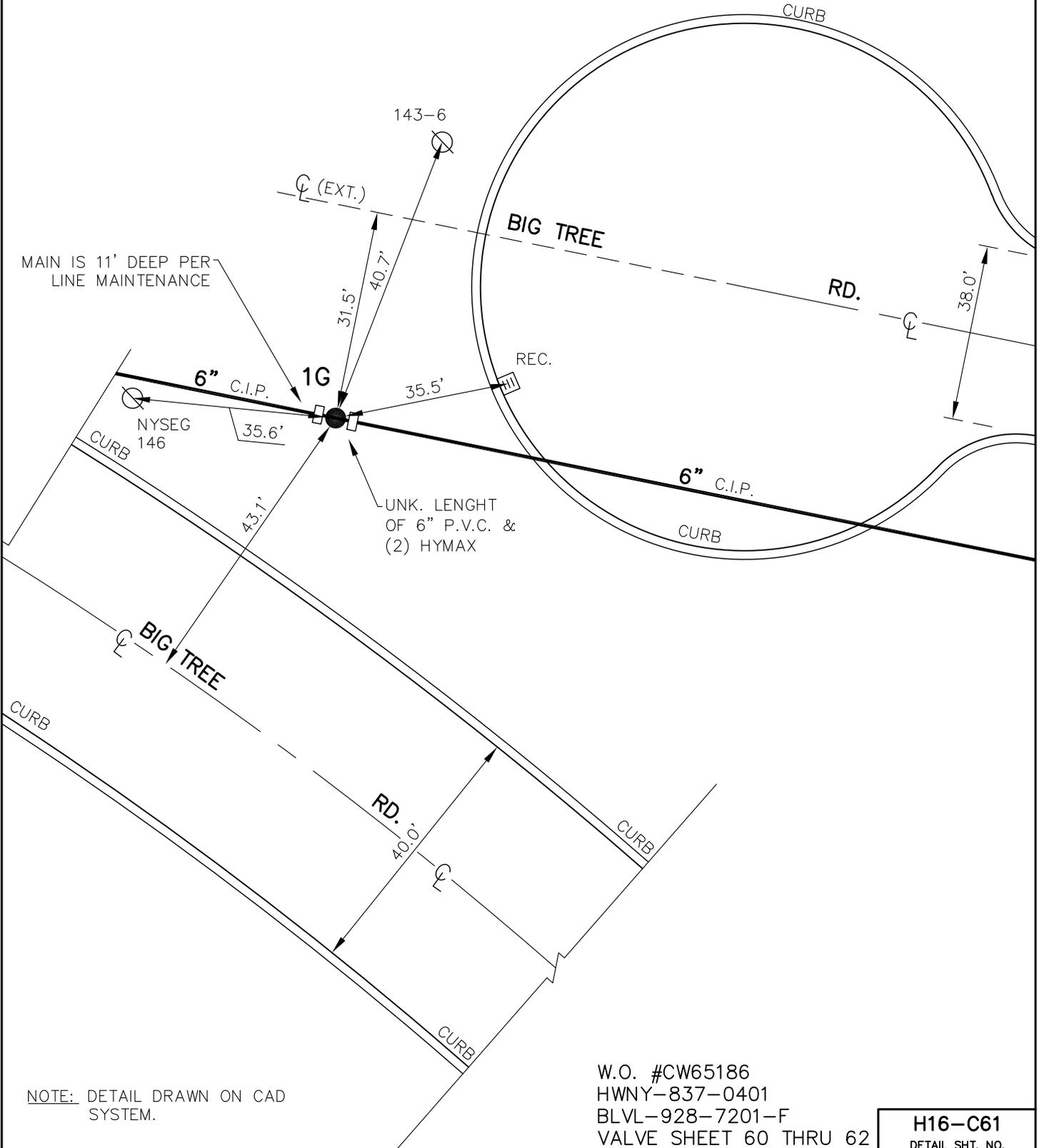
DR. R.D.C.	REVISED DR.
DATE: 12/16/2021	DATE:
FIELD	OFFICE

**TOWN OF HAMBURG**  
**E.C.W.A.**

**H16-C61**  
 DETAIL SHT. NO.

CURRENT PROJECT NO.

NOTE: VALVE 1G CLOSED TO ISOLATE LEAK WEST UNDER BIG TREE RD.



NOTE: DETAIL DRAWN ON CAD SYSTEM.

W.O. #CW65186  
 HWNY-837-0401  
 BLVL-928-7201-F  
 VALVE SHEET 60 THRU 62

**H16-C61**  
 DETAIL SHT. NO.

**MASTER COPY**



**ERIE COUNTY**  
**WATER AUTHORITY**  
 BUFFALO, NEW YORK

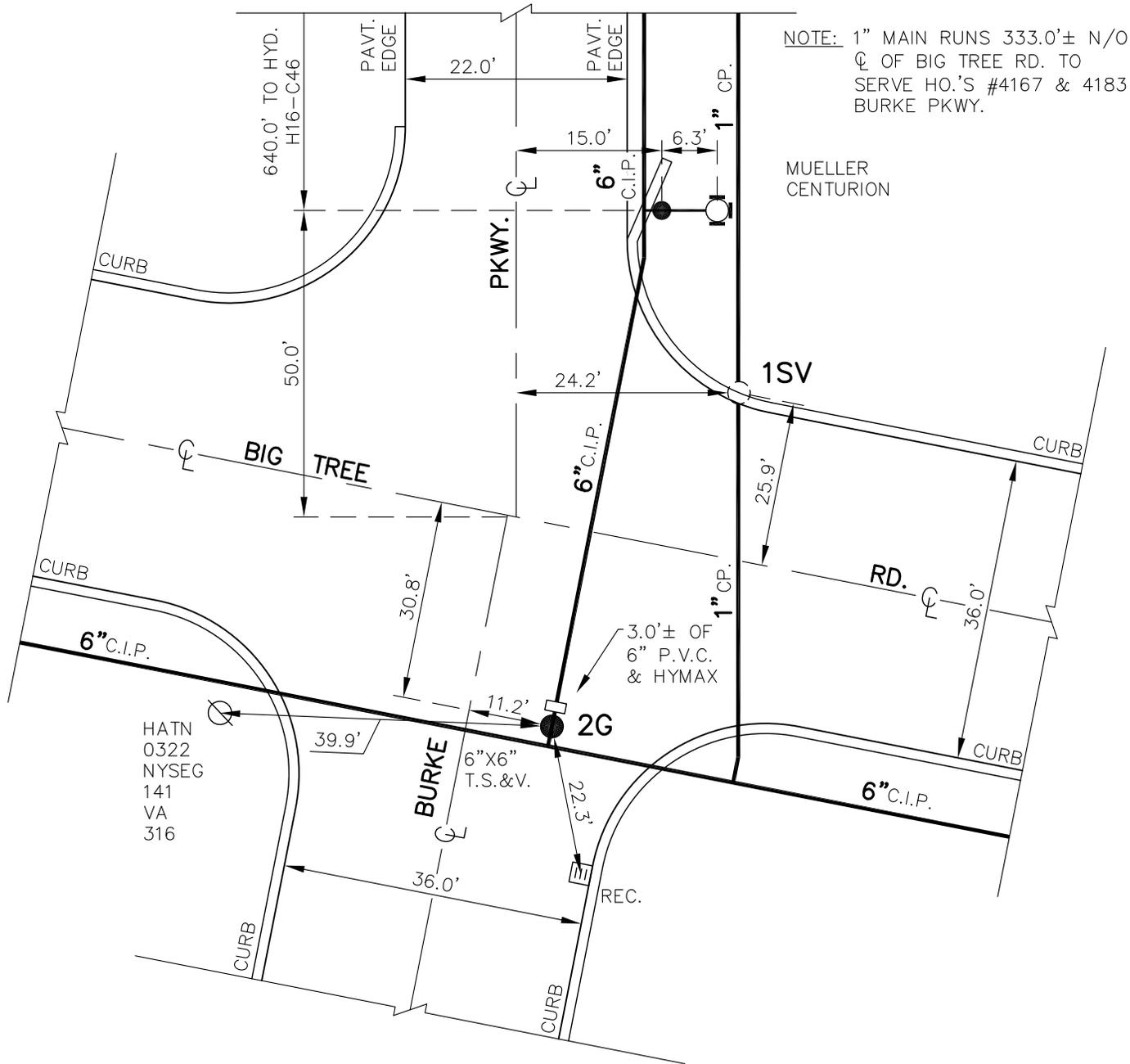
REVISED DR. R.D.C.  
 DATE: 5/18/2023  
 FIELD

REVISED DR.  
 DATE:  
 OFFICE

**TOWN OF HAMBURG**  
**E.C.W.A.**

**H16-C62**  
 DETAIL SHT. NO.  
 200400117  
 CURRENT PROJECT NO.

NOTE: VALVE 2G REPLACED UNDER  
 HATN-084-0901 ON 6/1/2009.  
 VALVE 1CS SACRIFICED UNDER  
 HWNY-837-0401 ON 8/19/2009.



NOTE: 1" MAIN RUNS 333.0'± N/O  
 CL OF BIG TREE RD. TO  
 SERVE HO.'S #4167 & 4183  
 BURKE PKWY.

MUELLER  
 CENTURION

HATN  
 0322  
 NYSEG  
 141  
 VA  
 316

HWNY-837-0401  
 HATN-084-0901  
 W.O. #0960399  
 HATN-420-8301-F  
 HATN-139-7201-F  
 BLVL-928-7201-F  
 VALVE SHEET 61

NOTE: DETAIL DRAWN ON CAD SYSTEM.  
 ± DIMENSIONS FROM W.O., NOT  
 FIELD CHECKED.

**H16-C62**  
 DETAIL SHT. NO.

**MASTER COPY**

**ERIE COUNTY WATER AUTHORITY  
CONSTRUCTION AUTHORIZATION**

Project No. 202300247  
Budget No. \_\_\_\_\_

Authorization No.: EC 7413  
Date: 5/21/2024  
Inputted By/Date: \_\_\_\_\_

November 2023 Estimate Starting Date  
August 2024 Estimate Complete Date  
yes  no Retirement Involved  
X Public Street  
Private Right of Way  
On Authority's Prop  
Tax Districts \_\_\_\_\_  
Name of Grantor of Easement \_\_\_\_\_  
Date of Easement \_\_\_\_\_

**TITLE OF PROJECT:** Replace Valve Boxes  
Southwestern Blvd. at Camp Rd.

**CLASS OF MAIN INSTALLATION:**  
X System Betterment  
Bldr/Cont/Dev. Agree.  
Owner Occupant Cont.  
Special Revenue Cont.

**DETAILED DESCRIPTION AND PURPOSE:**  
Replacement of valve boxes for valves G17-D49A,  
G18-A42 1BO, & F18-F02 1BO on Southwestern  
Blvd., Pleasant Ave. #2925, & Versailles Rd. #2342.  
To provide accessibility to valves.

**ESTIMATE COST**

(1) Total Est. Cost \$ 30,638.99  
(2) \_\_\_\_\_ Meters and Service @ \$ \_\_\_\_\_  
(3) Removal Cost Less Salvage \$ \_\_\_\_\_  
(4) Gross Investment \$ 30,638.99

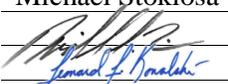
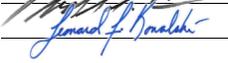
**DEDUCT**

(5) Const. Advance \$ \_\_\_\_\_  
(6) Service Conn. \$ \_\_\_\_\_  
(7) Refunds \$ \_\_\_\_\_  
(8) Net Auth. Invest. \$ 30,638.99

**BUDGETARY DATA**

(9) Tot. Budget Expnd. \$ \_\_\_\_\_  
(10) This Authorization \$ \_\_\_\_\_  
(11) Pre Approved \$ \_\_\_\_\_  
(12) Tot. Apvl. To Date \$ \_\_\_\_\_  
(13) Bal. Budget Expnd. \$ \_\_\_\_\_

**APPROVALS**

Preparation Michael Stoklosa  
Dir. of Dist.  2/27/2026  
Exec. Engr.  3/4/2026  
Admn. Director \_\_\_\_\_  
Legal Dept. \_\_\_\_\_  
Acct. Dept. \_\_\_\_\_

**ESTIMATED EARNINGS & RETURNS**

**ESTIMATED INCREASE IN REVENUES**

(14) \_\_\_\_\_ Customers @ \$ \_\_\_\_\_  
(15) \_\_\_\_\_ Hydrants @ \$ \_\_\_\_\_  
\$ \_\_\_\_\_  
\$ \_\_\_\_\_

**EST. SAVINGS IN OPERATING EXPENSES**

(16) \_\_\_\_\_ \$ \_\_\_\_\_  
(17) Gross Increase in Earnings \$ \_\_\_\_\_

**REVENUE DEDUCTIONS**

(18) Operating Exp. \_\_\_\_\_ % \$ \_\_\_\_\_  
(19) Depreciation \$ \_\_\_\_\_  
(20) Total Deductions \$ \_\_\_\_\_  
(21) Net Income Loss \$ \_\_\_\_\_  
(22) % Return on Investment \_\_\_\_\_  
(21) divided by 8) \_\_\_\_\_ %

**RESOLUTION APPROVING**

Adopted \_\_\_\_\_  
Item No. \_\_\_\_\_

**KANDEY COMPANY INC. - Project No. K2375**  
**ECWA WATER DISTRIBUTION SYSTEM REPLACEMENTS CONTRACT # 202300009**

Attn: Marc Bellacose

K2375 - 10

ITEM NO.	DESCRIPTION	QTY	UM	BILLING	TOTAL
<b>Item 1 - Watermain</b>					
<b>Item 1A - 4-inch to 8-inch Watermain (PVC or DIP)</b>					
1A1	Installing 4-inch to 8-inch Watermain, 6-feet or less of cover		LF	\$85.00	\$0.00
1A2	For installing 4-inch to 8-inch Watermain, greater than 6-feet of cover		LF	\$105.00	\$0.00
<b>Item 1B - 10-inch to 12-inch Watermain (PVC or DIP)</b>					
1B1	For installing 10-inch to 12-inch Watermain, 6-feet or less of cover	10.00	LF	\$100.00	\$1,000.00
1B2	For installing 10-inch to 12-inch Watermain, greater than 6-feet of cover		LF	\$120.00	\$0.00
<b>Item 1C - 16-inch to 20-inch Watermain (PVC or DIP)</b>					
1C1	For installing 16-inch to 20-inch Watermain, 6-feet or less of cover,		LF	\$110.00	\$0.00
1C2	For installing 16-inch to 20-inch Watermain, greater than 6-feet of cover,		LF	\$130.00	\$0.00
<b>Item 1D - 24-inch to 30-inch Watermain (PVC or DIP)</b>					
1D1	For installing 24-inch to 30-inch Watermain, 6-feet or less of cover,		LF	\$120.00	\$0.00
1D2	For installing 24-inch to 30-inch Watermain, greater than 6-feet of cover,		LF	\$150.00	\$0.00
<b>Item 1E - 36-inch Watermain (PVC or DIP)</b>					
1E1	For installing 36-inch Watermain, 6-feet or less of cover,		LF	\$140.00	\$0.00
1E2	For installing 36-inch Watermain, greater than 6-feet of cover,		LF	\$160.00	\$0.00
<b>Item 1F - High Density Polyethylene (HDPE) - HDD USE ONLY</b>					
1F1	For furnishing and installing 10-inch DR9 DIPS (HDPE) Watermain for 8-inch watermain supply		LF	\$90.00	\$0.00
1F2	For furnishing and installing 12-inch DR9 DIPS (HDPE) Watermain for 10-inch watermain supply		LF	\$110.00	\$0.00
1F3	For furnishing and installing 16-inch DR9 DIPS (HDPE) Watermain for 12-inch watermain supply		LF	\$130.00	\$0.00
<b>Item 2 - Valves</b>					
<b>Item 2A - Gate Valves</b>					
2A1	For installing 4-inch to 8-inch Gate Valve		Ea	\$3,750.00	\$0.00
2A2	For installing 10-inch to 12-inch Gate Valve	1.00	Ea	\$4,100.00	\$4,100.00
2A3	For installing 16-inch to 20-inch Gate Valve		Ea	\$4,500.00	\$0.00
2A4	For installing 24-inch to 30-inch Gate Valve		Ea	\$5,000.00	\$0.00
2A5	For installing 36-inch Gate Valve		Ea	\$5,500.00	\$0.00
<b>Item 2B - Pressure Reducing Valve (PRV)</b>					
2B1	For installing PRV Chamber with 4-inch High Flow PRV and 2-inch to 4-inch Low Flow PRV		Ea	\$12,500.00	\$0.00
2B2	For installing PRV Chamber with 6-inch High Flow PRV and 2-inch to 6-inch Low Flow PRV		Ea	\$12,500.00	\$0.00
2B3	For installing PRV Chamber with 8-inch High Flow PRV and 4-inch to 8-inch Low Flow PRV		Ea	\$12,500.00	\$0.00
2B4	For installing PRV Chamber with 10-inch High Flow PRV and 4-inch to 10-inch Low Flow PRV		Ea	\$17,000.00	\$0.00
2B5	For installing PRV Chamber 12-inch High Flow PRV and 6-inch to 12-inch Low Flow PRV		Ea	\$17,000.00	\$0.00
<b>Item 2C - Air Release Valve</b>					
2C1	For furnishing and installing Air Release Valve with Concrete Chamber		Ea	\$5,350.00	\$0.00
<b>Item 2D - Existing Valve Abandonment</b>					
2D1	For Existing Valve Abandonment - Complete (All Sizes)		Ea	\$1,500.00	\$0.00
<b>Item 3 - Existing Watermain Connections (Interconnections)</b>					
<b>Item 3A - Inline Connection</b>					
3A1	For 4-inch to 8-inch Inline Connection - Complete		Ea	\$2,675.00	\$0.00
3A2	For 10-inch to 12-inch Inline Connection - Complete	0.00	Ea	\$3,210.00	\$0.00
3A3	For 16-inch to 20-inch Inline Connection - Complete		Ea	\$5,000.00	\$0.00
3A4	For 24-inch to 30-inch Inline Connection - Complete		Ea	\$6,000.00	\$0.00
3A5	For 36-inch Inline Connection - Complete		Ea	\$7,500.00	\$0.00
<b>Item 3B - Tapping Sleeve and Valve (Hot Tap)</b>					
3B1	For installing 4-inch to 8-inch Tapping Sleeve and Valve		Ea	\$5,350.00	\$0.00
3B2	For installing 10-inch to 12-inch Tapping Sleeve and Valve - Complete		Ea	\$5,350.00	\$0.00
<b>Item 3C - Cut-in Tee with Valve Cluster</b>					
3C1	For installing 4-inch to 8-inch Cut-in Tee with Valve Cluster - Complete		Ea	\$5,700.00	\$0.00
3C2	For installing 10-inch to 12-inch Cut-in Tee with Valve Cluster - Complete	1.00	Ea	\$5,700.00	\$5,700.00
3C3	For installing 16-inch to 20-inch Cut-in Tee with Valve Cluster - Complete		Ea	\$13,500.00	\$0.00
3C4	For installing 24-inch to 30-inch Cut-in Tee with Valve Cluster - Complete		Ea	\$33,900.00	\$0.00
3C5	For installing 36-inch Cut-in Tee with Valve Cluster - Complete		Ea	\$38,500.00	\$0.00
<b>Item 4 - Fire Hydrants</b>					
<b>Item 4A - New Fire Hydrant Assembly</b>					
4A1	For installing New Fire Hydrant Assembly - Complete		Ea	\$1,550.00	\$0.00
<b>Item 4B - Existing Fire Hydrant Abandonment</b>					
4B1	For Existing Fire Hydrant Abandonment - Complete		Ea	\$800.00	\$0.00
<b>Item 5 - Ductile Iron (DI) Fittings</b>					
<b>Item 5A - Ductile Iron (DI) Fittings</b>					
5A1	For installing 4-inch to 8-inch Ductile Iron (DI) fittings with restraints, not included under (Item 3)		Ea	\$270.00	\$0.00
5A2	For installing 10-inch to 12-inch Ductile Iron (DI) fittings with restraints, not included under (Item 3)	2.00	Ea	\$325.00	\$650.00
5A3	For installing 16-inch to 20-inch Ductile Iron (DI) fittings with restraints, not included under (Item 3)		Ea	\$2,000.00	\$0.00

ITEM NO.	DESCRIPTION	QTY	UM	BILLING	TOTAL
5A4	For installing 24-inch to 30-inch Ductile Iron (DI) fittings with restraints, not included under (Item 3)		Ea	\$2,100.00	\$0.00
5A5	For installing 36-inch Ductile Iron (DI) fittings with restraints, not included under (Item 3)		Ea	\$2,200.00	\$0.00
5A6	For installing Joint Restraints per Section 15106 on existing 4-inch to 8-inch watermain		Ea	\$2,675.00	\$0.00
5A7	For installing Joint Restraints per Section 15106 on existing 10-inch to 12-inch watermain		Ea	\$3,250.00	\$0.00
5A8	For installing Joint Restraints per Section 15106 on existing 16-inch to 20-inch watermain		Ea	\$4,400.00	\$0.00
5A9	For installing Joint Restraints per Section 15106 on existing 24-inch to 30-inch watermain		Ea	\$4,800.00	\$0.00
5A10	For installing Joint Restraints per Section 15106 on existing 36-inch watermain		Ea	\$5,200.00	\$0.00
<b>Item 6 - Polyethylene Encasement</b>					
<b>Item 6A - Polyethylene Encasement for Ductile Iron Pipe and Fitting</b>					
6A1	For installing Polyethylene Encasement for Ductile Iron Pipe and Fitting	10.00	LF	\$2.00	\$20.00
<b>Item 7 - Rock Excavation, Test Pit Excavation/Backfill, and Extra Excavation/Backfill</b>					
<b>Item 7A - Rock Excavation</b>					
7A1	For Rock Excavation per Section 02317, (Fixed Minimum Unit Price of \$50.00 per CY)		CY	\$320.00	\$0.00
<b>Item 7B - Test Pit Excavation and Backfill</b>					
7B1	For Test Pit Excavation and Backfill (Fixed Minimum Unit Price of \$200.00 per Each)		Ea	\$700.00	\$0.00
<b>Item 7C - Extra Excavation and Backfill</b>					
7C1	For Extra Excavation and Backfill		CY	\$55.00	\$0.00
<b>Item 8 - Special Backfill</b>					
<b>Item 8A - Select Backfill</b>					
8A1	For furnishing and installing Select Backfill		CY	\$60.00	\$0.00
<b>Item 8B - Rip-Rap Backfill</b>					
8B1	For furnishing and installing Rip-Rap Backfill		CY	\$195.00	\$0.00
<b>Item 9 - Water Service Connections and Blow-offs</b>					
<b>Item 9A - Service Replacement/Installation</b>					
9A1	For installing 3/4-inch to 1-inch Copper Service Replacement/Installation		Ea	\$2,150.00	\$0.00
9A2	For installing 1 1/2-inch and 2-inch Copper Service Replacement/Installation		Ea	\$2,400.00	\$0.00
9A3	For furnishing and installing 3/4-inch to 1-inch Polyethylene Service Replacement/Installation		Ea	\$2,150.00	\$0.00
9A4	For furnishing and installing 1 1/2-inch and 2-inch Polyethylene Tubing Replacement/Installation		Ea	\$2,400.00	\$0.00
<b>Item 9B - Additional Copper and Polyethylene Tubing</b>					
9B1	For installing 3/4-inch to 1-inch Additional Copper Tubing		LF	\$17.00	\$0.00
9B2	For installing 1 1/2-inch and 2-inch Additional Copper Tubing		LF	\$27.00	\$0.00
9B3	For furnishing and installing 3/4-inch to 1-inch Additional Polyethylene Tubing		LF	\$17.00	\$0.00
9B4	For furnishing and installing 1 1/2-inch and 2-inch Additional Polyethylene Tubing		LF	\$27.00	\$0.00
<b>Item 9C - Blow-off Assemblies</b>					
9C1	For installing Permanent 2-inch Blowoff Assembly		Ea	\$535.00	\$0.00
9C2	For installing Permanent 4-inch Blowoff Assembly		Ea	\$1,100.00	\$0.00
9C3	For installing Permanent 8-inch Blowoff Assembly		Ea	\$1,600.00	\$0.00
<b>Item 10 - Casing Pipe</b>					
<b>Item 10 - Trenchless Casing Pipe Installation</b>					
10A1	For furnishing and installing 18-inch Diameter Casing Pipe for 8-inch Carrier Pipe		LF	\$455.00	\$0.00
10A2	For furnishing and installing 20-inch Diameter Casing Pipe for 10-inch Carrier Pipe		LF	\$455.00	\$0.00
10A3	For furnishing and installing 24-inch Diameter Casing Pipe for 12-inch Carrier Pipe		LF	\$525.00	\$0.00
10A4	For furnishing and installing 30-inch Diameter Casing Pipe for 16-inch Carrier Pipe		LF	\$750.00	\$0.00
<b>Item 10B - Open-cut Casing Pipe Installation</b>					
10B1	For furnishing and installing 18-inch Diameter Casing Pipe for 8-inch Carrier Pipe		LF	\$200.00	\$0.00
10B2	For furnishing and installing 20-inch Diameter Casing Pipe for 10-inch Carrier Pipe		LF	\$200.00	\$0.00
10B3	For furnishing and installing 24-inch Diameter Casing Pipe for 12-inch Carrier Pipe		LF	\$250.00	\$0.00
10B4	For furnishing and installing 30-inch Diameter Casing Pipe for 16-inch Carrier Pipe		LF	\$400.00	\$0.00
<b>Item 10C - Additional for Trenchless Casing Pipe Installation in Rock</b>					
10C1	For Trenchless Casing Pipe Installation in Rock, 16-inch to 18-inch		LF	\$380.00	\$0.00
10C2	For Trenchless Casing Pipe Installation in Rock, 20-inch to 24-inch		LF	\$380.00	\$0.00
10C3	For Trenchless Casing Pipe Installation in Rock, 30-inch		LF	\$500.00	\$0.00
<b>Item 11 - Horizontal Directional Drilling (HDD)</b>					
<b>Item 11A - Horizontal Directional Drilling (HDD)</b>					
11A1	Horizontal Directional Drill for installing 4-inch to 10-inch watermain		LF	\$120.00	\$0.00
11A2	Horizontal Directional Drill for installing 12-inch to 16-inch watermain		LF	\$230.00	\$0.00
<b>Item 12 - Testing and Disinfection</b>					
<b>Item 12A - Testing and Disinfection of Water main Lengths 200-feet or Less</b>					
12A1	For Testing and Disinfection of 4-inch Watermain (includes 6-inch HDPE)		LF	\$11.00	\$0.00
12A2	For Testing and Disinfection of 6-inch Watermain (includes 8-inch HDPE)		LF	\$11.00	\$0.00
12A3	For Testing and Disinfection of 8-inch Watermain (includes 10-inch HDPE)		LF	\$11.00	\$0.00
12A4	For Testing and Disinfection of 10-inch Watermain (includes 12-inch HDPE)		LF	\$11.00	\$0.00
12A5	For Testing and Disinfection of 12-inch Watermain (includes 16-inch HDPE)		LF	\$11.00	\$0.00
12A6	For Testing and Disinfection of 16-inch Watermain		LF	\$12.00	\$0.00
12A7	For Testing and Disinfection of 20-inch Watermain		LF	\$12.00	\$0.00
12A8	For Testing and Disinfection of 24-inch Watermain		LF	\$12.00	\$0.00
12A9	For Testing and Disinfection of 30-inch Watermain		LF	\$15.00	\$0.00
12A10	For Testing and Disinfection of 36-inch Watermain		LF	\$15.00	\$0.00
<b>Item 13 - Pavement, Sidewalk, Driveway, Lawn, and Landscape Restoration</b>					
<b>Item 13A - Clearing and Grubbing</b>					

ITEM NO.	DESCRIPTION	QTY	UM	BILLING	TOTAL
13A1	For Additional Clearing and Grubbing, width greater than 15-feet		SY	\$105.00	\$0.00
<b>Item 13B - Pavement Restoration</b>					
13B1	For Asphalt Pavement Restoration		SY	\$140.00	\$0.00
13B2	For Concrete Pavement Restoration		SY	\$190.00	\$0.00
13B3	For Concrete with Asphalt Top Pavement Restoration		SY	\$200.00	\$0.00
13B4	For Asphalt Shoulder Restoration		SY	\$100.00	\$0.00
13B5	For Concrete Gutter Restoration		LF	\$80.00	\$0.00
13B6	For Concrete Curb Restoration		LF	\$80.00	\$0.00
13B7	For Granite Curb Restoration		LF	\$215.00	\$0.00
13B8	For Cold Milling and Asphalt Top at 1-inch to 2-inch depth		SY	\$175.00	\$0.00
13B9	For Cold Milling and Asphalt Top at each 1-inch over 2-inch depth		SY	\$80.00	\$0.00
13B10	For Cold Patch (high performance patching material) per 3-inch depth		SY	\$55.00	\$0.00
13B11	For Traffic Loop Installation		Ea	\$3,200.00	\$0.00
<b>Item 13C - Sidewalk Restoration</b>					
13C1	For Asphalt Sidewalk Restoration		SY	\$110.00	\$0.00
13C2	For Concrete Sidewalk Restoration		SY	\$160.00	\$0.00
<b>Item 13D - Driveway Restoration</b>					
13D1	For Asphalt Driveway Restoration		SY	\$110.00	\$0.00
13D2	For Concrete Driveway Restoration		SY	\$185.00	\$0.00
<b>Item 13E - Asphalt Sealant</b>					
13E1	For Asphalt Sealant for driveway and sidewalks (Fixed Minimum Unit Price \$0.50 per SY)		SY	\$6.00	\$0.00
<b>Item 13F - Lawn Restoration</b>					
13F1	For Lawn Restoration	15	SY	\$33.00	\$495.00
<b>Item 13G - Landscaping Restoration</b>					
13G1	For Deciduous Trees, 3-feet to 4-feet (balled)		Ea	\$485.00	\$0.00
13G2	For Deciduous Trees, 1 1/2-inch to 2-inch caliper (balled)		Ea	\$485.00	\$0.00
13G3	For Deciduous Trees, 4-inch to 4 1/2 inch caliper (balled)		Ea	\$700.00	\$0.00
13G4	For Deciduous Shrubs, 3-feet to 4-feet (bare root)		Ea	\$100.00	\$0.00
13G5	For Evergreen Trees, 5-feet to 6-feet (balled)		Ea	\$270.00	\$0.00
13G6	For Evergreen Shrubs, 2 1/2-feet to 4-feet (balled)		Ea	\$270.00	\$0.00
13G7	For Repairing Damaged Trees, pruning and wrapping		Ea	\$800.00	\$0.00
13G8	For Fertilizing Existing Trees		Ea	\$215.00	\$0.00
<b>Item 14 - Crew Rate and Construction Allowance</b>					
<b>Item 14A - Crew Labor and Equipment</b>					
14A1	For Crew Labor and Equipment (Fixed Minimum Unit Price of \$100.00 per hour)		Hrs	\$550.00	\$0.00
14A2	For Survey Crew Labor and Equipment (Unit Price shall not be less than prevailing wage)		Hrs	\$215.00	\$0.00
14A3	For Vacuum Truck and Crew Labor (Fixed Minimum Unit Price of \$125.00 per hour)		Hrs	\$450.00	\$0.00
<b>Item 14B - Construction Allowance</b>					
14B1	For General Construction Allowance		LS	\$150,000.00	\$0.00
14B2	For Maintenance and Protection of Traffic (State and County Roads)		LS	\$100,000.00	\$1,500.00
14B3	For Concrete Vaults and Chambers Allowance		LS	\$100,000.00	\$0.00
14B4	For Material Allowance		LS	\$50,000.00	\$1,000.00

Location: Proposal with Estimated Quantities for Lakeshore & Hewson Rd.

Install: Cut in 12x12x12 Tee, Install 12" BFV, 12" Tee & Riser to Grade.

Work Order:

Proj No:

OWIP/EC#:

<b>INVOICE AMOUNT</b>	<b>\$14,465.00</b>
Less Retention 5%	\$723.25
<b>INVOICE TOTAL</b>	<b>\$13,741.75</b>





VALVE G18A42 1BO - 2925 PLEASANT AVENUE



October 2, 2023

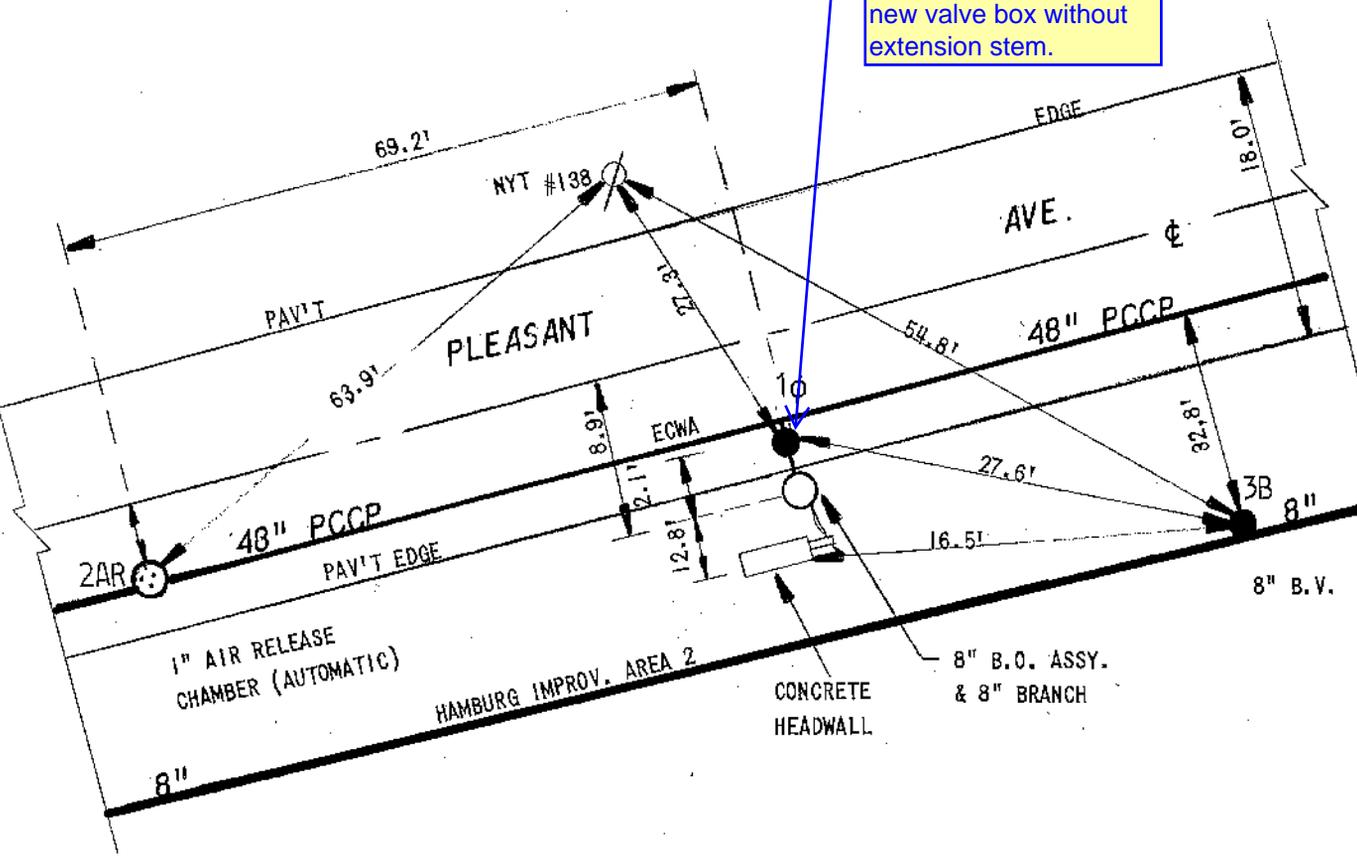


ERIE COUNTY WATER  
AUTHORITY  
BUFFALO, NEW YORK

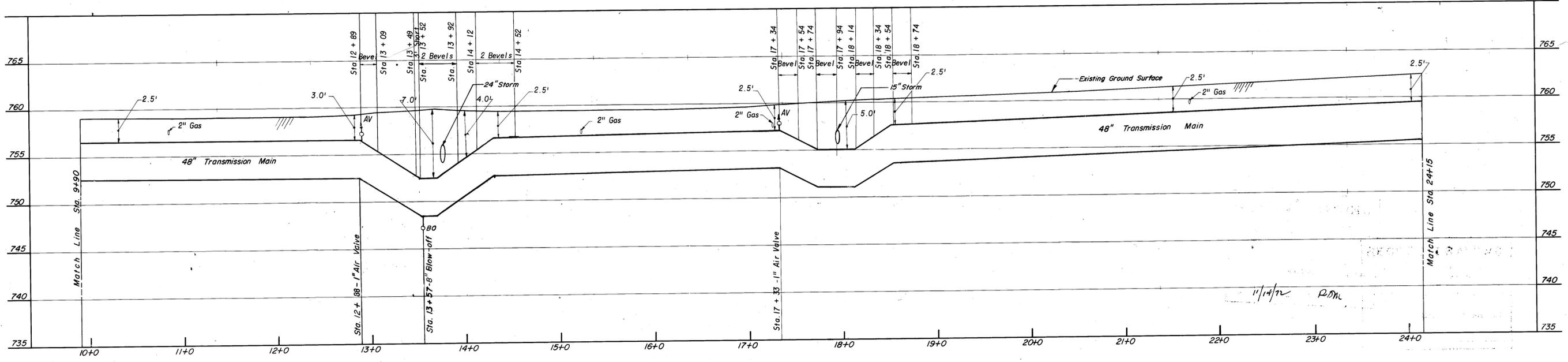
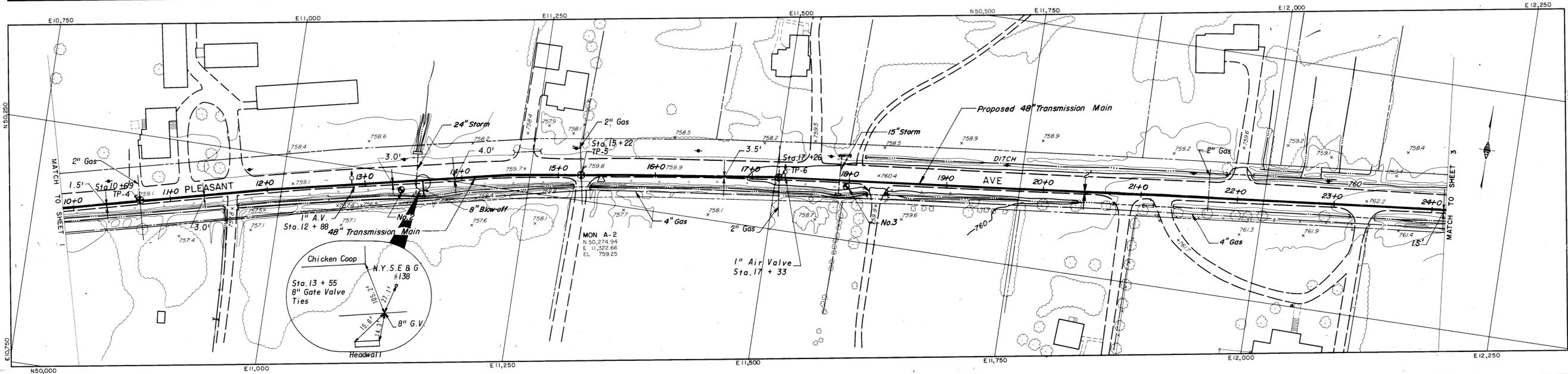
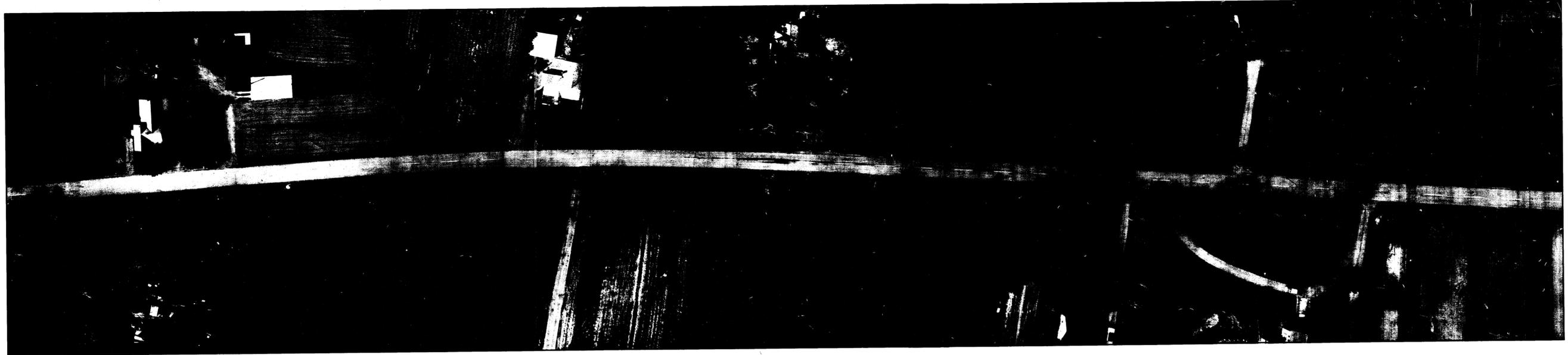
NYS ITS Geospatial Services



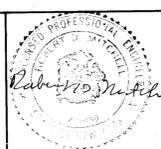
Remove existing valve box and bolted extension stem. Install new valve box without extension stem.



DWG T6-C1  
HATN-181-2-8101-FD



PHOTOGRAMMETRIC MAPPING BY  
AERO SERVICE CORPORATION  
A DIVISION OF LITTON INDUSTRIES  
FOR  
**MALCOLM PIRNIE ENGINEERS**  
WHITE PLAINS, NEW YORK



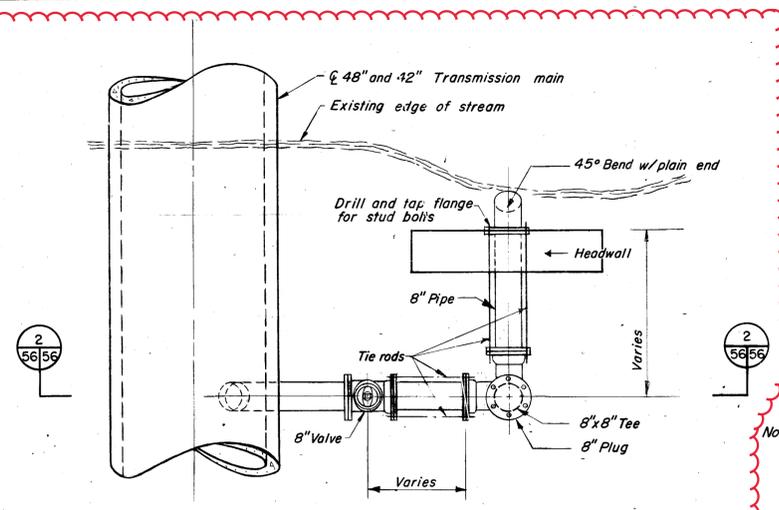
DESIGNED *W.D.* DRAWN *K.L.K.* CHECKED *W.D.*  
REVISIONS: JUNE, 1971

ERIE COUNTY WATER AUTHORITY  
ERIE COUNTY, NEW YORK  
TRANSMISSION MAIN

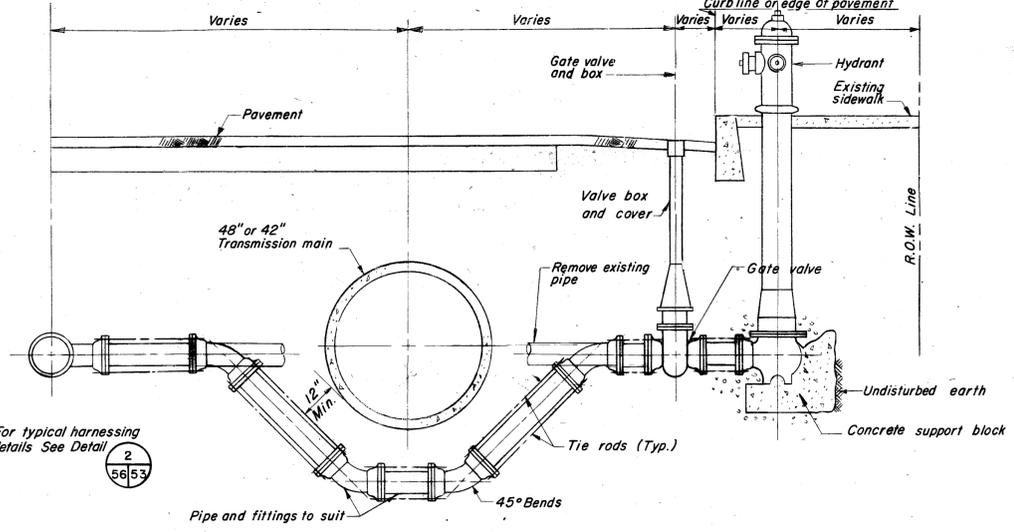
PLAN AND PROFILE  
STA. 9+90 TO STA. 24+15  
SCALES: HORIZ. 1"=50', VERT. 1"=5'

DATE: JUNE, 1969  
SHEET 2 OF 56  
DWG. NO. 041D-69.002-1

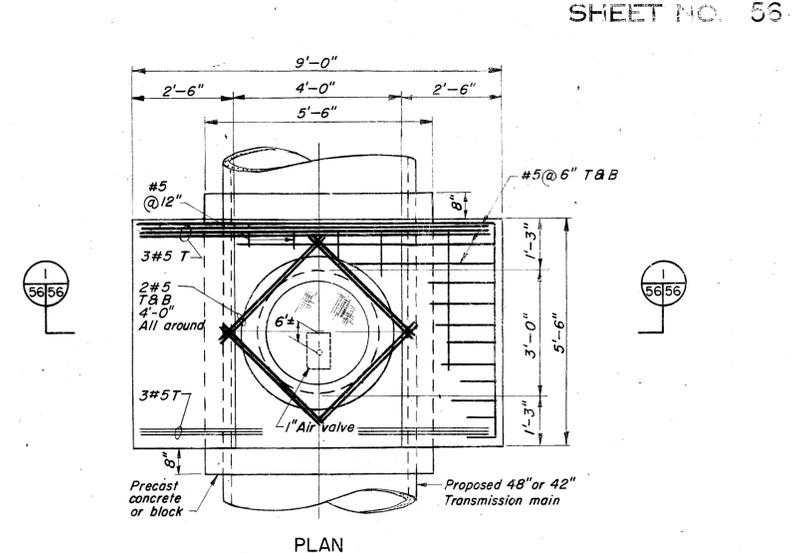
13-91



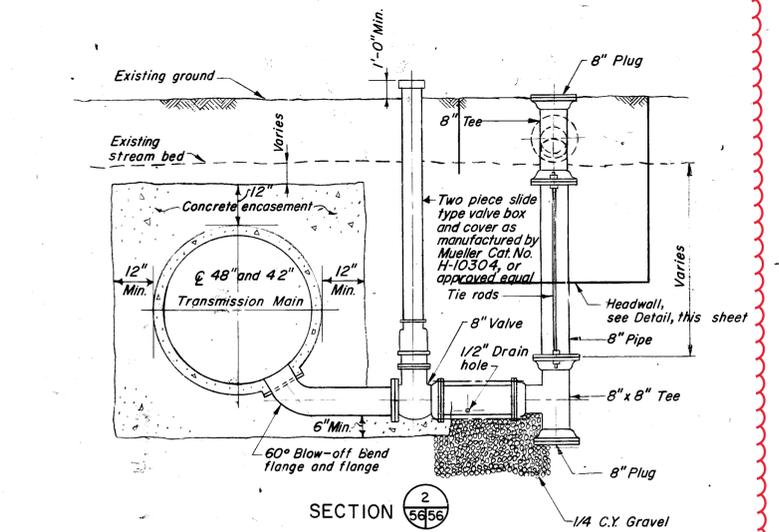
**PLAN**  
 Note: In areas where an existing drain or stream is not available See Detail 2-5653



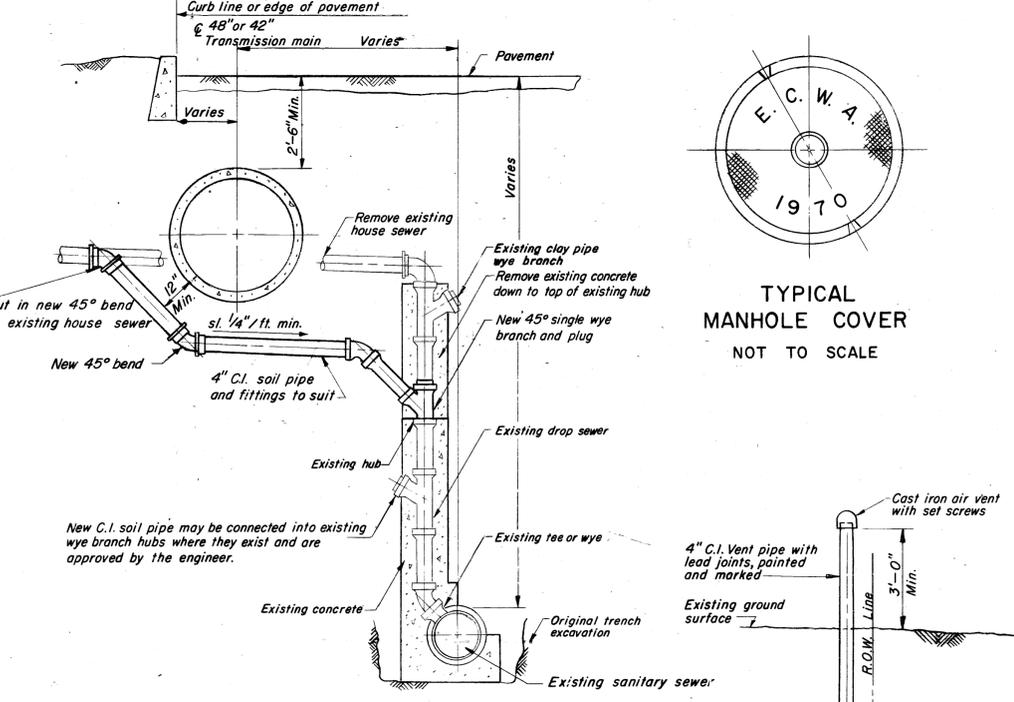
**TYPICAL HYDRANT OR RELOCATION DETAIL**  
 SCALE: 1/2" = 1'-0"



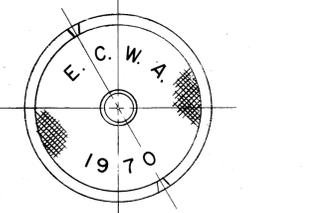
**PLAN**  
 SCALE: 1/2" = 1'-0"



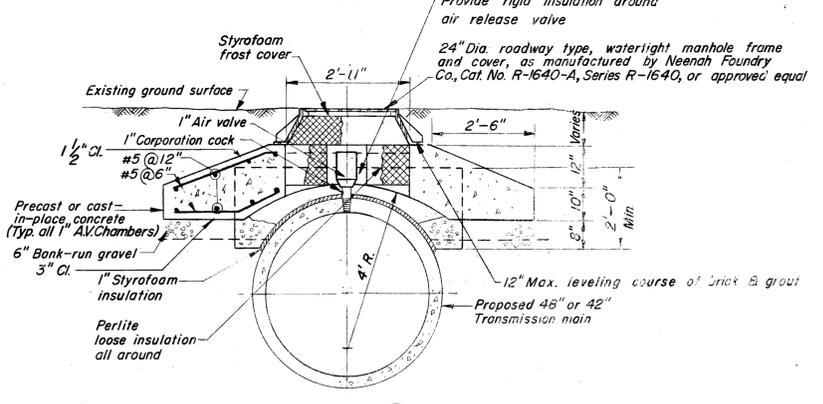
**SECTION 2**  
**TYPICAL BLOW-OFF**  
 SCALE: 1/2" = 1'-0"



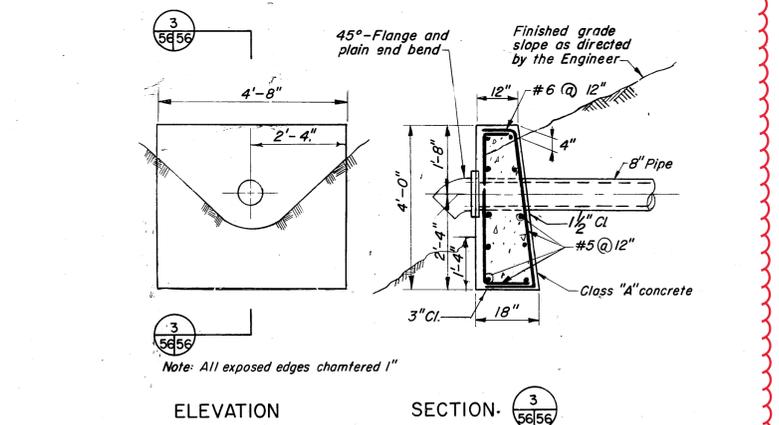
**DROP HOUSE CONNECTION-TYPICAL REPLACEMENT**  
 SCALE: 3/8" = 1'-0"



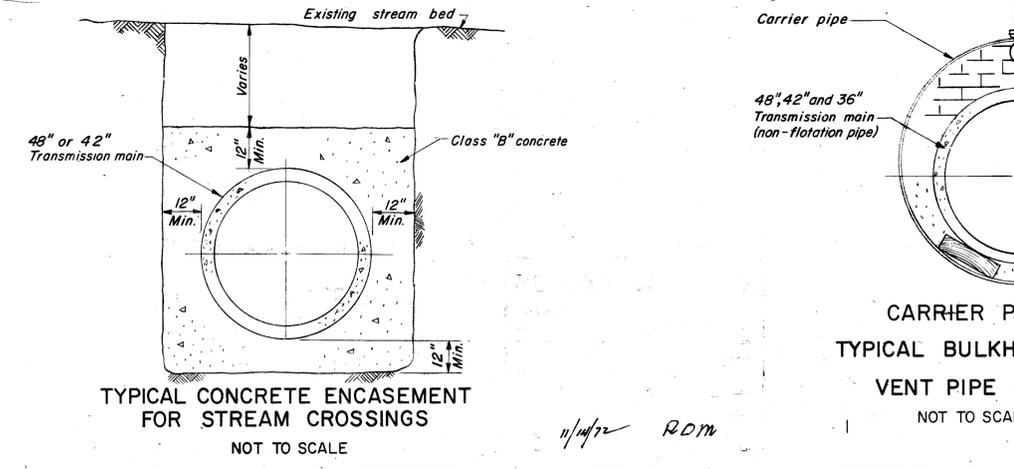
**TYPICAL MANHOLE COVER**  
 NOT TO SCALE



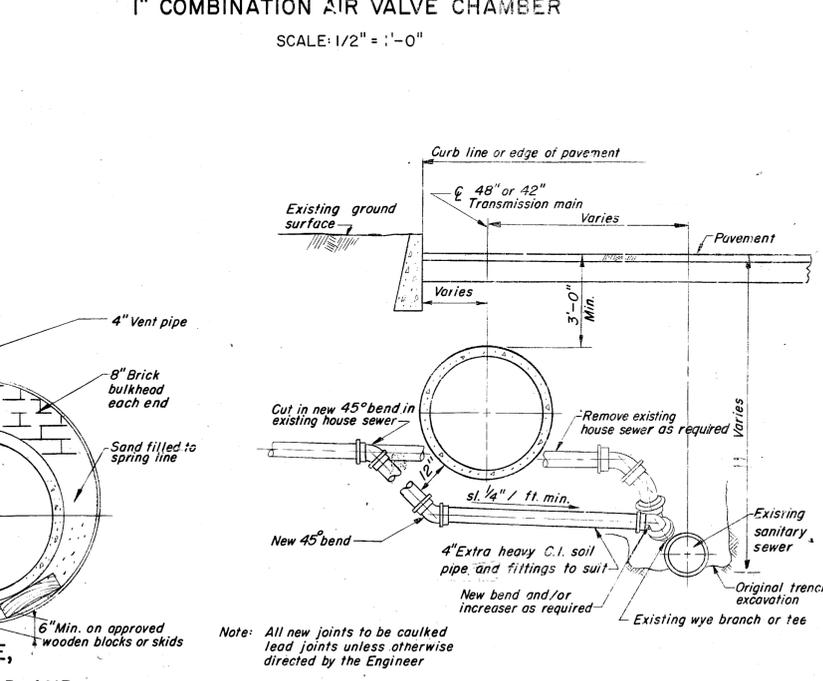
**SECTION 1**  
**1" COMBINATION AIR VALVE CHAMBER**  
 SCALE: 1/2" = 1'-0"



**ELEVATION**  
**SECTION 3**  
**TYPICAL HEADWALL**  
 SCALE: 1/2" = 1'-0"



**TYPICAL CONCRETE ENCASUREMENT FOR STREAM CROSSINGS**  
 NOT TO SCALE



**HOUSE CONNECTION TYPICAL REPLACEMENT**  
 SCALE: 3/8" = 1'-0"

**MALCOLM PIRNIE ENGINEERS**

DESIGNED: *aw* DRAWN: *JMB* CHECKED: *[Signature]*  
 REVISIONS: JUNE, 1972

ERIE COUNTY WATER AUTHORITY  
 ERIE COUNTY, NEW YORK  
 TRANSMISSION MAIN

MISCELLANEOUS DETAILS  
 SCALES AS INDICATED

DATE: JUNE 1969  
 SHEET 56 OF 56  
 DWG. NO. 041D-69.056-1

76-61



VALVE F18F02 1BO - 2342 VERAILLES ROAD

Valve F18-F02 1BO,  
See Detail for  
Improvements

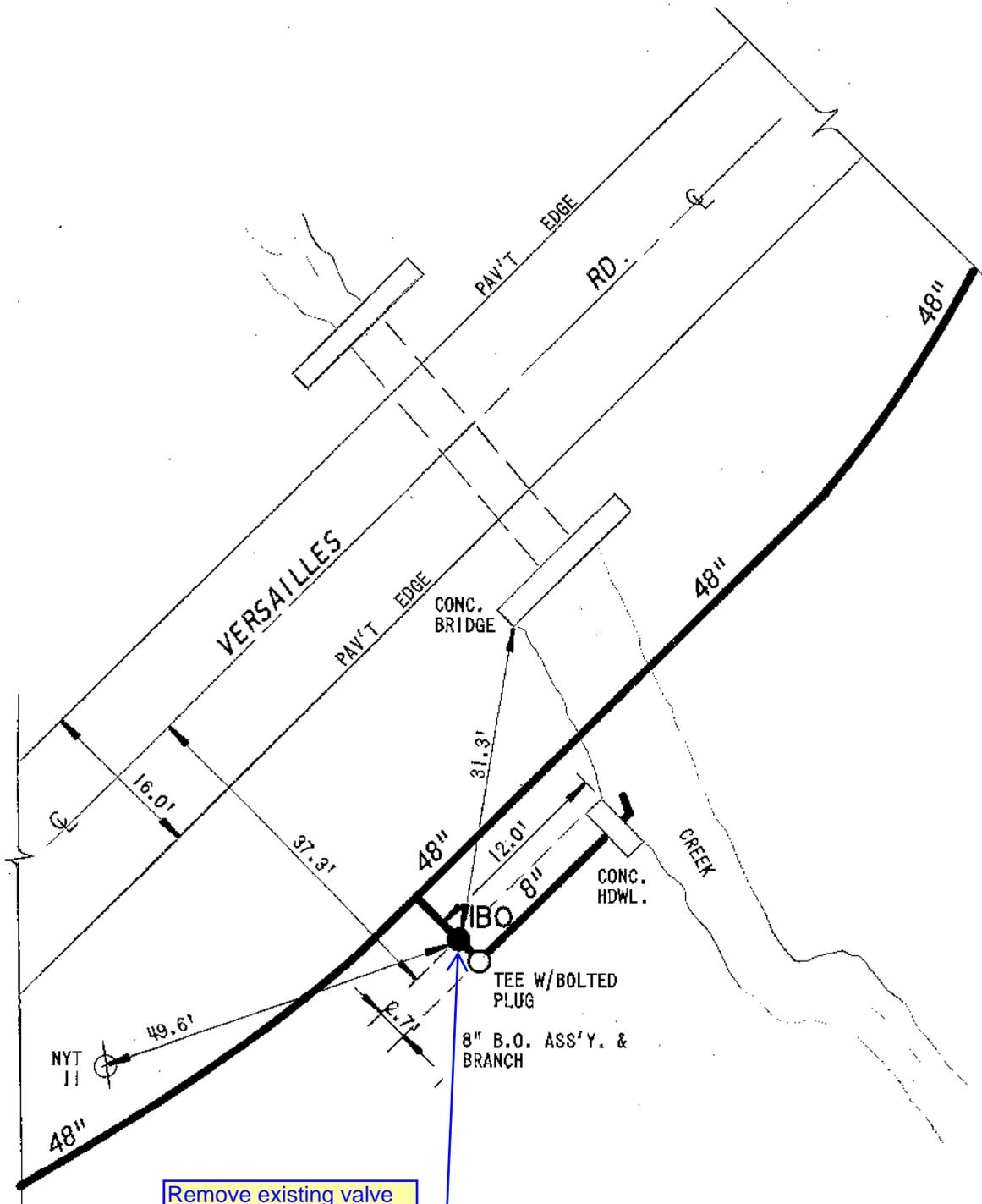


October 2, 2023



ERIE COUNTY WATER  
AUTHORITY  
BUFFALO, NEW YORK

NYS ITS Geospatial Services



Remove existing valve box and bolted extension stem. Install new valve box without extension stem.

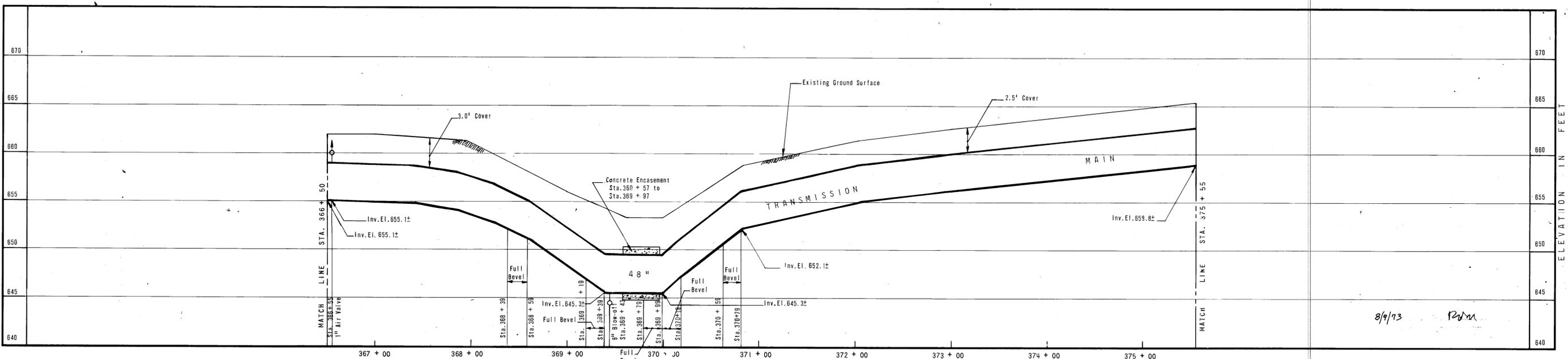
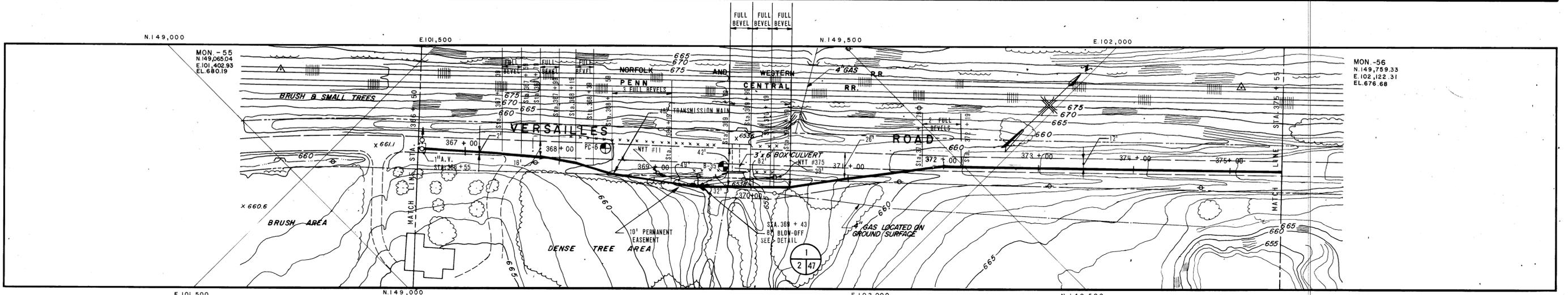
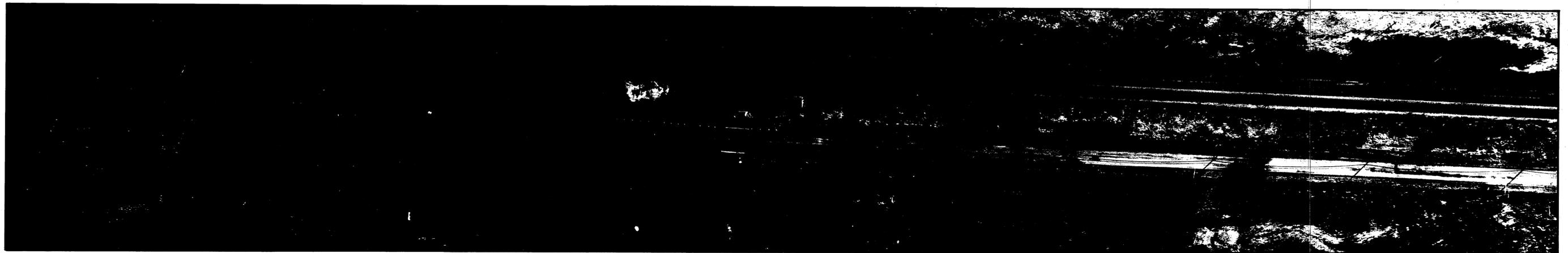
CONT. 10 & 11-7100 PF-496  
DWG. T13-C1

	<b>ERIE COUNTY</b>
	<b>WATER AUTHORITY</b> BUFFALO, NEW YORK

REVISED DR. BY:	JS
DATE:	7/6/94
SCALE:	NONE

TOWN OF HAMBURG  
E.C.W.A.

DETAIL SHEET NO.
F18-F02



8/9/73 RDM

MALCOLM  
PIRNIE,  
INC.

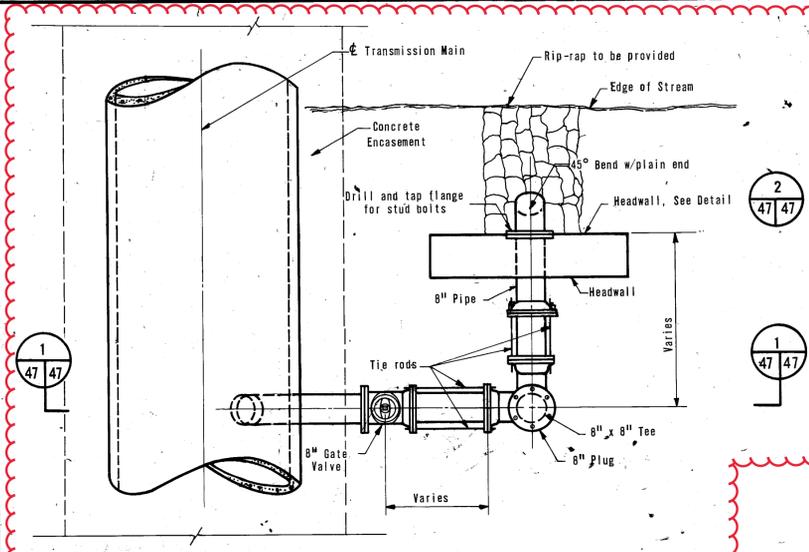
DESIGNED: *JRD* DRAWN: *JRD* CHECKED: *JRD*  
REVISIONS:

ERIE COUNTY WATER AUTHORITY  
BUFFALO, NEW YORK  
**48-INCH TRANSMISSION MAIN**  
STURGEON POINT TO INTERSECTION OF  
SOUTHWESTERN BOULEVARD AND PLEASANT AVENUE

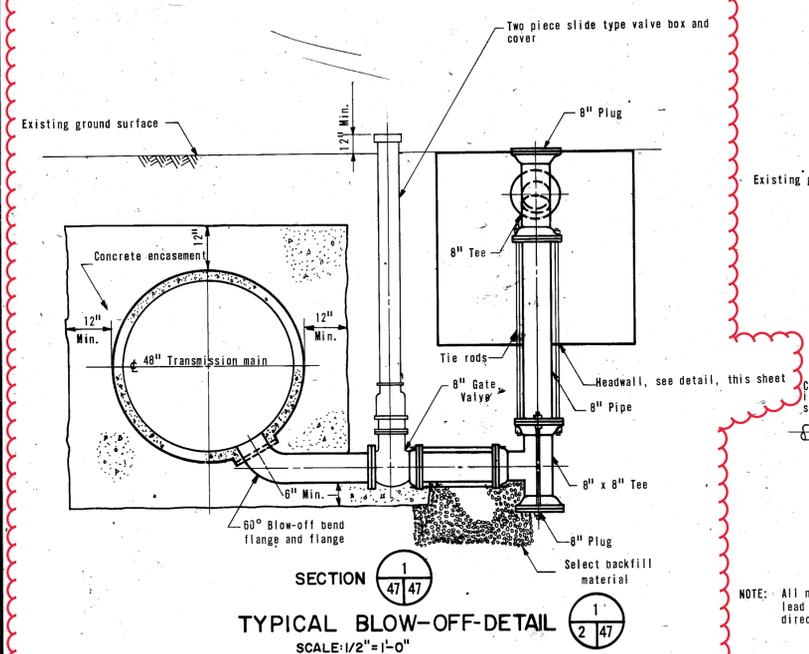
**PLAN AND PROFILE**  
STA. 366 + 50 TO STA. 375 + 55  
SCALES: HORIZ. 1" = 50' VERT. 1" = 5'

HUD PROJ. NO. WS-NY-498  
DATE FEBRUARY, 1971  
SHEET 34 OF 49  
DWG. NO. 041-D-70.034-1

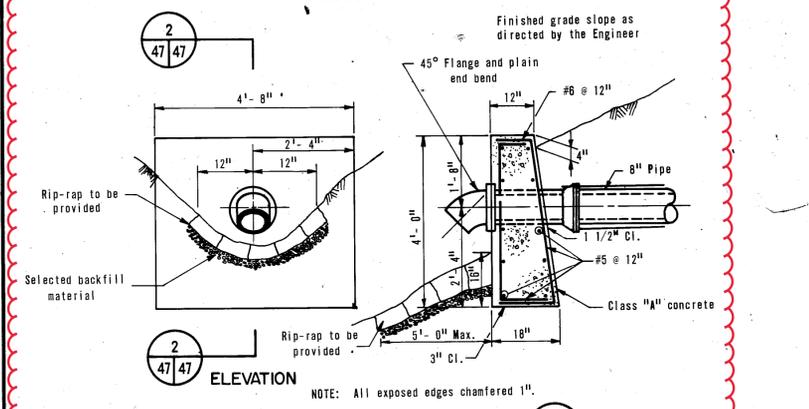
CONT-10+11-7100 PDI3-C1



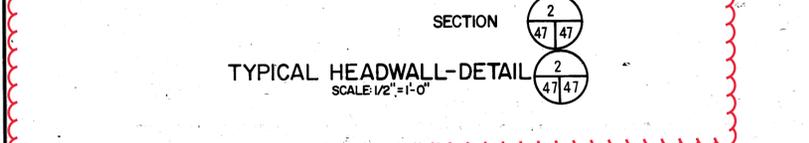
PLAN



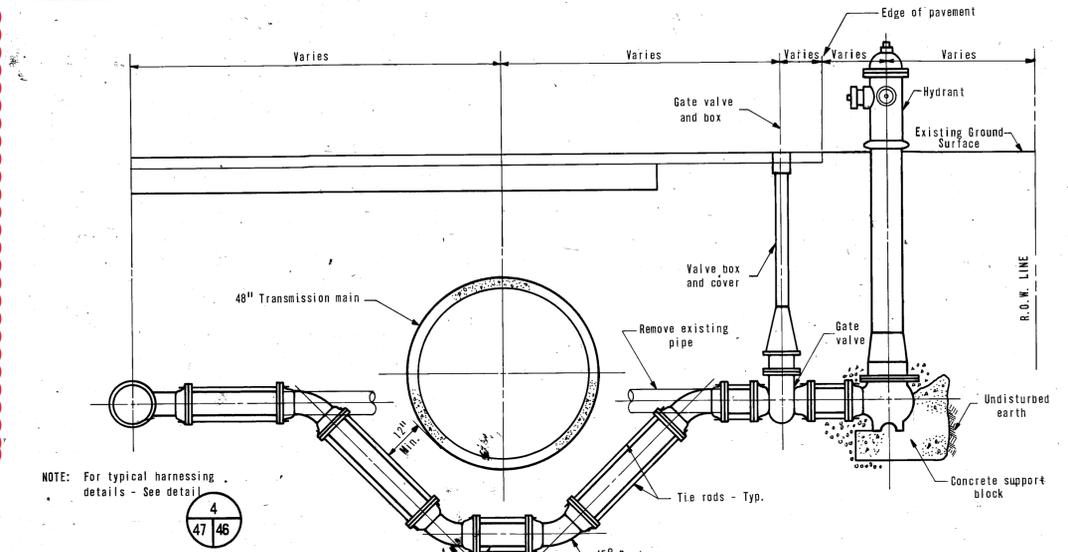
SECTION 1  
TYPICAL BLOW-OFF-DETAIL  
SCALE: 1/2" = 1'-0"



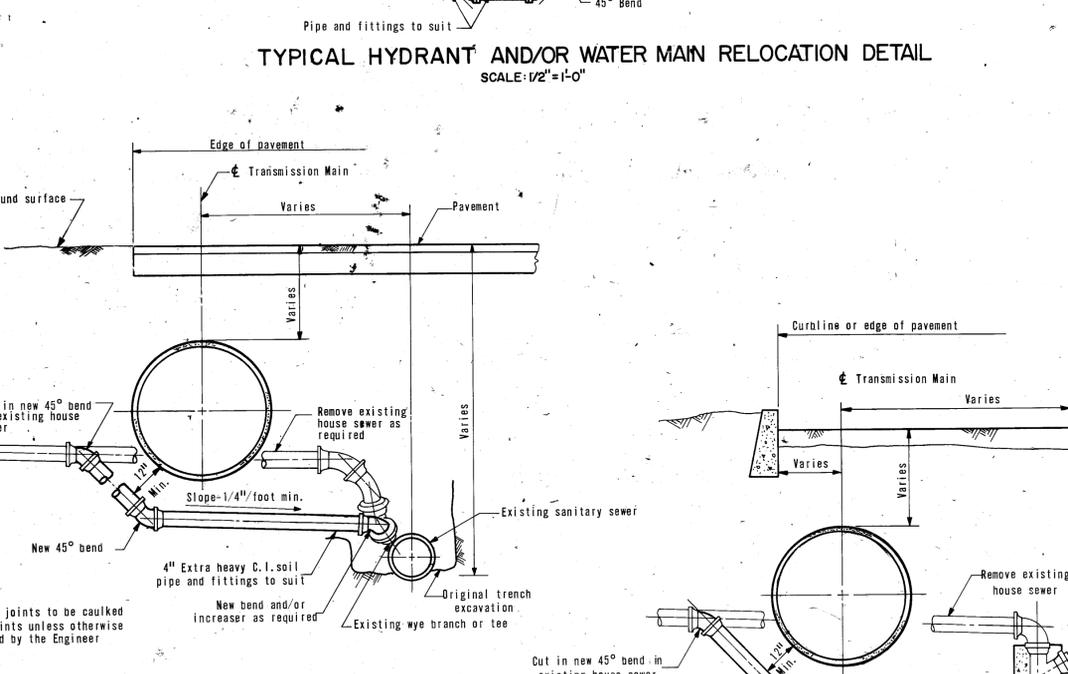
SECTION 2  
TYPICAL HEADWALL-DETAIL  
SCALE: 1/2" = 1'-0"



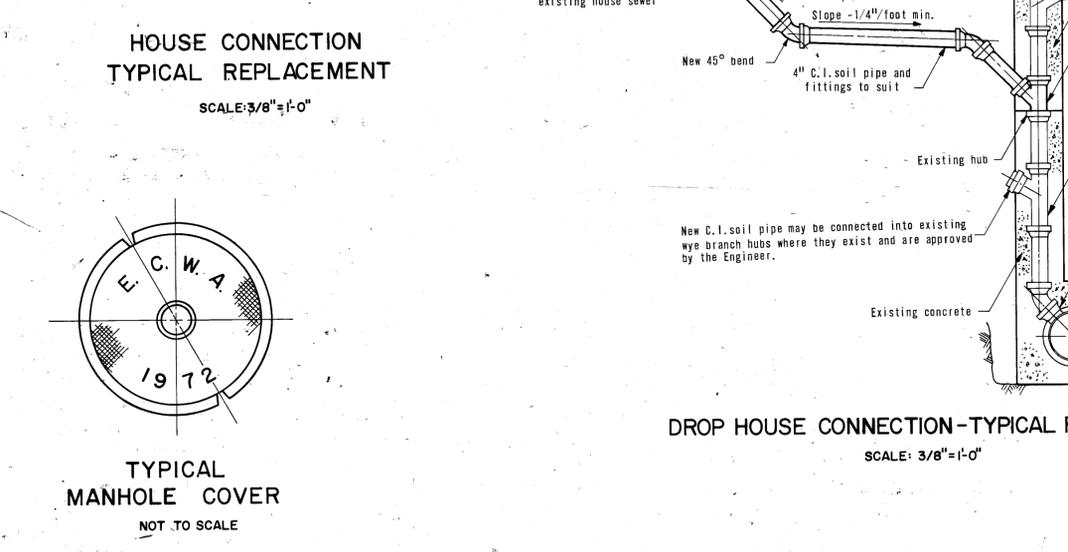
ELEVATION



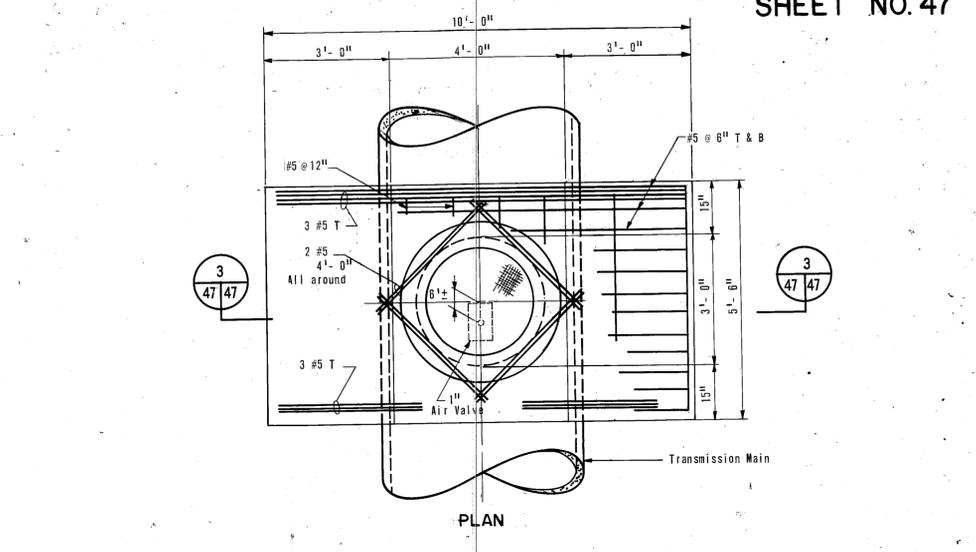
TYPICAL HYDRANT AND/OR WATER MAIN RELOCATION DETAIL  
SCALE: 1/2" = 1'-0"



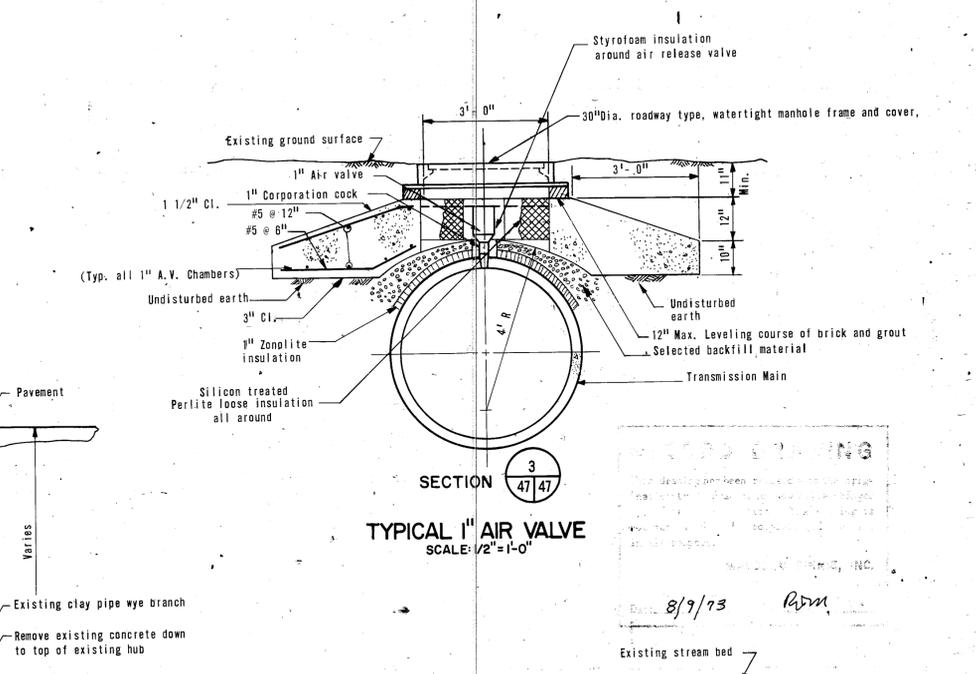
HOUSE CONNECTION  
TYPICAL REPLACEMENT  
SCALE: 3/8" = 1'-0"



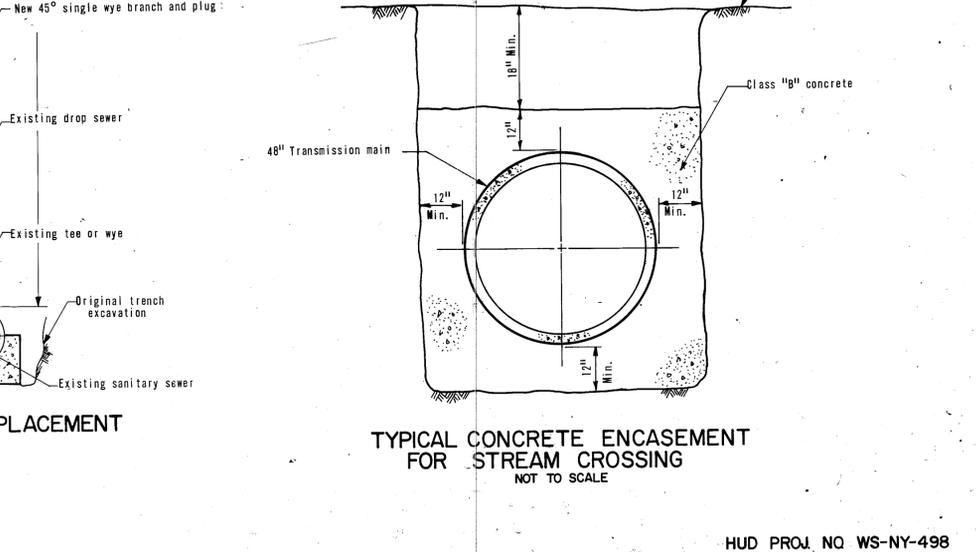
TYPICAL  
MANHOLE COVER  
NOT TO SCALE



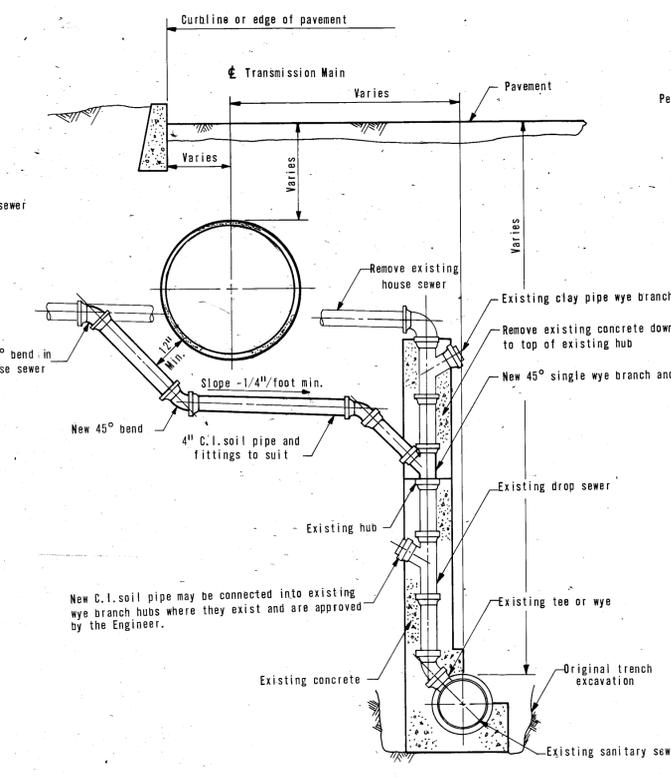
PLAN



SECTION 3  
TYPICAL 1" AIR VALVE  
SCALE: 1/2" = 1'-0"



TYPICAL CONCRETE ENCASEMENT  
FOR STREAM CROSSING  
NOT TO SCALE



DROP HOUSE CONNECTION-TYPICAL REPLACEMENT  
SCALE: 3/8" = 1'-0"

MALCOLM  
PIRNIE,  
INC.

DESIGNED DSM  
DRAWN  
CHECKED  
REVISIONS

ERIE COUNTY WATER AUTHORITY  
BUFFALO, NEW YORK  
48-INCH TRANSMISSION MAIN  
STURGEON POINT TO INTERSECTION OF  
SOUTHWESTERN BOULEVARD AND PLEASANT AVENUE

MISCELLANEOUS DETAILS  
SCALE AS INDICATED

HUD PROJ. NO WS-NY-498  
DATE FEBRUARY, 1971  
SHEET 47 OF 49  
DWG. NO. 041-D-70047-1

CONT-10+11-7100T13-C1 PD

**ERIE COUNTY WATER AUTHORITY  
CONSTRUCTION AUTHORIZATION**

Project No. 202400112  
Budget No. \_\_\_\_\_

Authorization No.: EC 7440  
Date: 5/21/2024  
Inputted By/Date: \_\_\_\_\_

June 2024 Estimate Starting Date  
December 2024 Estimate Complete Date  
X yes    d    no Retirement Involved  
   X Public Street  
   Private Right of Way  
   On Authority's Prop  
   Tax Districts \_\_\_\_\_  
Name of Grantor of Easement \_\_\_\_\_  
Date of Easement \_\_\_\_\_

**TITLE OF PROJECT:** Sheridan Dr. Pressure Zone Transfer.

**CLASS OF MAIN INSTALLATION:**  
   X System Betterment  
   Bldr/Cont/Dev. Agree.  
   Owner Occupant Cont.  
   Special Revenue Cont.

**DETAILED DESCRIPTION AND PURPOSE:**  
Transfer pipeline between 8101 Sheridan Dr. & Harris Hill Rd. from pressure zone 0 to pressure zone 14. Includes replacement & installation of 100' of main in front of 4828 Ledge Ln. New isolation valve will be installed at the Clearview Dr./Garrock Rd. intersection. Valve L06-G44-4G will be closed & L06-G64-2G will be opened.  
Transfer pressure zone in area from Zone 0 to Zone 14 to increase pressures in area.

**ESTIMATE COST**

(1) Total Est. Cost \$ 125,035.78  
(2) \_\_\_\_\_ Meters and Service @ \$ \_\_\_\_\_  
(3) Removal Cost Less Salvage \$ \_\_\_\_\_  
(4) Gross Investment \$ 125,035.78

**ESTIMATED EARNINGS & RETURNS**

**ESTIMATED INCREASE IN REVENUES**  
(14) Customers @ \$ \_\_\_\_\_  
\$ \_\_\_\_\_  
(15) Hydrants @ \$ \_\_\_\_\_  
\$ \_\_\_\_\_

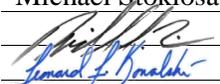
**DEDUCT**  
(5) Const. Advance \$ \_\_\_\_\_  
(6) Service Conn. \$ \_\_\_\_\_  
(7) Refunds \$ \_\_\_\_\_  
(8) Net Auth. Invest. \$ 125,035.78

**EST. SAVINGS IN OPERATING EXPENSES**  
(16) \_\_\_\_\_ \$ \_\_\_\_\_  
(17) Gross Increase in Earnings \$ \_\_\_\_\_

**BUDGETARY DATA**  
(9) Tot. Budget Expnd. \$ \_\_\_\_\_  
(10) This Authorization \$ \_\_\_\_\_  
(11) Pre Approved \$ \_\_\_\_\_  
(12) Tot. Apvl. To Date \$ \_\_\_\_\_  
(13) Bal. Budget Expnd. \$ \_\_\_\_\_

**REVENUE DEDUCTIONS**  
(18) Operating Exp. \_\_\_\_\_ % \$ \_\_\_\_\_  
(19) Depreciation \$ \_\_\_\_\_  
(20) Total Deductions \$ \_\_\_\_\_  
(21) Net Income Loss \$ \_\_\_\_\_  
(22) % Return on Investment \_\_\_\_\_  
(21) divided by 8) \_\_\_\_\_ %

**APPROVALS**

Preparation Michael Stoklosa  
Dir. of Dist.  2/27/2026  
Exec. Engr.  3/4/2026  
Admn. Director \_\_\_\_\_  
Legal Dept. \_\_\_\_\_  
Acct. Dept. \_\_\_\_\_

**RESOLUTION APPROVING**

Adopted \_\_\_\_\_  
Item No. \_\_\_\_\_

JOB  
DESCRIPTION

WATER DISTRIBUTION SYSTEM REPAIRS & IMPROVEMENTS  
FOR THE PERIOD 5/1/23 THROUGH 4/30/25

ESTIMATE No: 7  
MPO NUMBER: 2023013  
PERIOD COVERED 09/29/24 TO 12/09/24

Project # 202300009

CONTRACTOR: Kandey Company, Inc.  
19 Ransier Drive  
West Seneca, NY 14224

Vendor # V1121

BID ITEM #	QUANTITY	UNIT	UNIT COST	CONTRACT BREAKDOWN	COMPLETED TO DATE			COMPLETED PREV ESTIMATE			AMOUNT THIS ESTIMATE
					QUANTITY	PERCENT	AMOUNT	QUANTITY	PERCENT	AMOUNT	
1A1	3500	LF @	\$85.00	\$297,500.00	94.50	2.70%	\$8,032.50	0.00	0.00%	\$0.00	\$8,032.50
1A2	50	LF @	\$105.00	\$5,250.00	42.00	84.00%	\$4,410.00	42.00	84.00%	\$4,410.00	\$0.00
1B1	500	LF @	\$100.00	\$50,000.00	420.50	84.10%	\$42,050.00	328.50	65.70%	\$32,850.00	\$9,200.00
1B2	50	LF @	\$120.00	\$6,000.00	10.00	20.00%	\$1,200.00	10.00	20.00%	\$1,200.00	\$0.00
1C1	300	LF @	\$110.00	\$33,000.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
1C2	50	LF @	\$130.00	\$6,500.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
1D1	300	LF @	\$120.00	\$36,000.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
1D2	50	LF @	\$150.00	\$7,500.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
1E1	300	LF @	\$140.00	\$42,000.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
1E2	50	LF @	\$160.00	\$8,000.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
1F1	2000	LF @	\$90.00	\$180,000.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
1F2	400	LF @	\$110.00	\$44,000.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
1F3	400	LF @	\$130.00	\$52,000.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
2A1	20	Ea @	\$3,750.00	\$75,000.00	1.00	5.00%	\$3,750.00	0.00	0.00%	\$0.00	\$3,750.00
2A2	5	Ea @	\$4,100.00	\$20,500.00	3.00	60.00%	\$12,300.00	2.00	40.00%	\$8,200.00	\$4,100.00
2A3	5	Ea @	\$4,500.00	\$22,500.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
2A4	5	Ea @	\$5,000.00	\$25,000.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
2A5	5	Ea @	\$5,500.00	\$27,500.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
2B1	5	Ea @	\$12,500.00	\$62,500.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
2B2	5	Ea @	\$12,500.00	\$62,500.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
2B3	5	Ea @	\$12,500.00	\$62,500.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
2B4	5	Ea @	\$17,000.00	\$85,000.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
2B5	5	Ea @	\$17,000.00	\$85,000.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
2C1	1	Ea @	\$5,350.00	\$5,350.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
2D1	5	Ea @	\$1,500.00	\$7,500.00	7.00	140.00%	\$10,500.00	7.00	140.00%	\$10,500.00	\$0.00
3A1	30	Ea @	\$2,675.00	\$80,250.00	7.00	23.33%	\$18,725.00	5.00	16.67%	\$13,375.00	\$5,350.00
3A2	5	Ea @	\$3,210.00	\$16,050.00	4.00	80.00%	\$12,840.00	3.00	60.00%	\$9,630.00	\$3,210.00
3A3	5	Ea @	\$5,000.00	\$25,000.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
3A4	5	Ea @	\$6,000.00	\$30,000.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
3A5	5	Ea @	\$7,500.00	\$37,500.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
3B1	1	Ea @	\$5,350.00	\$5,350.00	3.00	300.00%	\$16,050.00	3.00	300.00%	\$16,050.00	\$0.00

3B2	1	Ea @	\$5,350.00	\$5,350.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
3C1	5	Ea @	\$5,700.00	\$28,500.00	1.00	20.00%	\$5,700.00	0.00	0.00%	\$0.00	\$5,700.00
3C2	5	Ea @	\$5,700.00	\$28,500.00	1.00	20.00%	\$5,700.00	0.00	0.00%	\$0.00	\$5,700.00
3C3	1	Ea @	\$13,500.00	\$13,500.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
3C4	1	Ea @	\$33,900.00	\$33,900.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
3C5	1	Ea @	\$38,500.00	\$38,500.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
4A1	10	Ea @	\$1,550.00	\$15,500.00	7.00	70.00%	\$10,850.00	7.00	70.00%	\$10,850.00	\$0.00
4B1	10	Ea @	\$800.00	\$8,000.00	3.00	30.00%	\$2,400.00	3.00	30.00%	\$2,400.00	\$0.00
5A1	100	Ea @	\$270.00	\$27,000.00	17.00	17.00%	\$4,590.00	11.00	11.00%	\$2,970.00	\$1,620.00
5A2	30	Ea @	\$325.00	\$9,750.00	9.00	30.00%	\$2,925.00	4.00	13.33%	\$1,300.00	\$1,625.00
5A3	20	Ea @	\$2,000.00	\$40,000.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
5A4	20	Ea @	\$2,100.00	\$42,000.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
5A5	20	Ea @	\$2,200.00	\$44,000.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
5A6	10	Ea @	\$2,675.00	\$26,750.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
5A7	10	Ea @	\$3,250.00	\$32,500.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
5A8	10	Ea @	\$4,400.00	\$44,000.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
5A9	10	Ea @	\$4,800.00	\$48,000.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
5A10	10	Ea @	\$5,200.00	\$52,000.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
6A1	3000	LF @	\$2.00	\$6,000.00	335.00	11.17%	\$670.00	151.00	5.03%	\$302.00	\$368.00
7A1	20	CY @	\$320.00	\$6,400.00	48.00	240.00%	\$15,360.00	33.00	165.00%	\$10,560.00	\$4,800.00
7B1	10	Ea @	\$700.00	\$7,000.00	9.00	90.00%	\$6,300.00	6.00	60.00%	\$4,200.00	\$2,100.00
7C1	50	CY @	\$55.00	\$2,750.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
8A1	1800	CY @	\$60.00	\$108,000.00	324.51	18.03%	\$19,470.60	324.51	18.03%	\$19,470.60	\$0.00
8B1	50	CY @	\$195.00	\$9,750.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
9A1	20	Ea @	\$2,150.00	\$43,000.00	7.00	35.00%	\$15,050.00	3.00	15.00%	\$6,450.00	\$8,600.00
9A2	5	Ea @	\$2,400.00	\$12,000.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
9A3	5	Ea @	\$2,150.00	\$10,750.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
9A4	5	Ea @	\$2,400.00	\$12,000.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00

BID ITEM #	QUANTITY	UNIT	UNIT COST	CONTRACT BREAKDOWN	COMPLETED TO DATE			COMPLETED PREV ESTIMATE			AMOUNT THIS ESTIMATE
					QUANTITY	PERCENT	AMOUNT	QUANTITY	PERCENT	AMOUNT	
9B1	10	LF @	\$17.00	\$170.00	35.00	350.00%	\$595.00	14.00	140.00%	\$238.00	\$357.00
9B2	10	LF @	\$27.00	\$270.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
9B3	10	LF @	\$17.00	\$170.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
9B4	10	LF @	\$27.00	\$270.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
9C1	5	Ea @	\$535.00	\$2,675.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
9C2	1	Ea @	\$1,100.00	\$1,100.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
9C3	1	Ea @	\$1,600.00	\$1,600.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
10A1	350	LF @	\$455.00	\$159,250.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
10A2	200	LF @	\$455.00	\$91,000.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
10A3	100	LF @	\$525.00	\$52,500.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
10A4	50	LF @	\$750.00	\$37,500.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
10B1	20	LF @	\$200.00	\$4,000.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
10B2	20	LF @	\$200.00	\$4,000.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00

10B3	20	LF @	\$250.00	\$5,000.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
10B4	20	LF @	\$400.00	\$8,000.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
10C1	10	LF @	\$380.00	\$3,800.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
10C2	10	LF @	\$380.00	\$3,800.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
10C3	10	LF @	\$500.00	\$5,000.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
11A1	1800	LF @	\$120.00	\$216,000.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
11A2	300	LF @	\$230.00	\$69,000.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
12A1	50	LF @	\$11.00	\$550.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
12A2	50	LF @	\$11.00	\$550.00	30.00	60.00%	\$330.00	30.00	60.00%	\$330.00	\$0.00
12A3	500	LF @	\$11.00	\$5,500.00	110.00	22.00%	\$1,210.00	23.00	4.60%	\$253.00	\$957.00
12A4	250	LF @	\$11.00	\$2,750.00	405.50	162.20%	\$4,460.50	316.00	126.40%	\$3,476.00	\$984.50
12A5	250	LF @	\$11.00	\$2,750.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
12A6	250	LF @	\$12.00	\$3,000.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
12A7	250	LF @	\$12.00	\$3,000.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
12A8	250	LF @	\$12.00	\$3,000.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
12A9	250	LF @	\$15.00	\$3,750.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
12A10	250	LF @	\$15.00	\$3,750.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
13A1	50	SY @	\$105.00	\$5,250.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
13B1	600	SY @	\$140.00	\$84,000.00	213.18	35.53%	\$29,845.20	197.50	32.92%	\$27,650.00	\$2,195.20
13B2	20	SY @	\$190.00	\$3,800.00	6.11	30.55%	\$1,160.90	6.11	30.55%	\$1,160.90	\$0.00
13B3	300	SY @	\$200.00	\$60,000.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
13B4	20	SY @	\$100.00	\$2,000.00	2.00	10.00%	\$200.00	2.00	10.00%	\$200.00	\$0.00
13B5	20	SY @	\$80.00	\$1,600.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
13B6	20	LF @	\$80.00	\$1,600.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
13B7	20	LF @	\$215.00	\$4,300.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
13B8	200	SY @	\$175.00	\$35,000.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
13B9	100	SY @	\$80.00	\$8,000.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
13B10	50	SY @	\$55.00	\$2,750.00	184.00	368.00%	\$10,120.00	184.00	368.00%	\$10,120.00	\$0.00
13B11	5	Ea @	\$3,200.00	\$16,000.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
13C1	10	SY @	\$110.00	\$1,100.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
13C2	400	SY @	\$160.00	\$64,000.00	4.30	1.08%	\$688.00	4.30	1.08%	\$688.00	\$0.00
13D1	200	SY @	\$110.00	\$22,000.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
13D2	100	SY @	\$185.00	\$18,500.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
13E1	500	SY @	\$6.00	\$3,000.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
13F1	3200	SY @	\$33.00	\$105,600.00	349.88	10.93%	\$11,546.04	162.66	5.08%	\$5,367.78	\$6,178.26
13G1	1	Ea @	\$485.00	\$485.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
13G2	1	Ea @	\$485.00	\$485.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
13G3	1	Ea @	\$700.00	\$700.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
13G4	1	Ea @	\$100.00	\$100.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
13G5	1	Ea @	\$270.00	\$270.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
13G6	1	Ea @	\$270.00	\$270.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
13G7	1	Ea @	\$800.00	\$800.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
13G8	1	Ea @	\$215.00	\$215.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
14A1	200	Hrs @	\$550.00	\$110,000.00	9.00	4.50%	\$4,950.00	6.00	3.00%	\$3,300.00	\$1,650.00
14A2	50	Hrs @	\$215.00	\$10,750.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
14A3	50	Hrs @	\$450.00	\$22,500.00	43.50	87.00%	\$19,575.00	43.50	87.00%	\$19,575.00	\$0.00

14B1	1	ALW	\$150,000.00	\$150,000.00	15,869.75	10.58%	\$15,869.75	15,869.75	10.58%	\$15,869.75	\$0.00
14B2	1	ALW	\$100,000.00	\$100,000.00	182,171.83	182.17%	\$182,171.83	164,049.37	164.05%	\$164,049.37	\$18,122.46
14B3	1	ALW	\$100,000.00	\$100,000.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
14B4	1	ALW	\$50,000.00	\$50,000.00	3,868.32	7.74%	\$3,868.32	0.00	0.00%	\$0.00	\$3,868.32
<b>Total</b>			<b>\$3,936,930.00</b>		<b>--</b>	<b>12.84%</b>	<b>\$505,463.64</b>	<b>--</b>	<b>10.34%</b>	<b>\$406,995.40</b>	<b>\$98,468.24</b>
5% Retention:											\$4,923.41
Returned Retention:											\$0.00
Revised Retention Amount:											\$4,923.41
Amount Due This Estimate:											\$93,544.83

I HEREBY CERTIFY THAT ACCORDING TO THE ABOVE MENTIONED CONTRACT, THIS IS A JUST ESTIMATE OF THE WORK DONE AND THE MATERIALS FURNISHED UNDER THE CONTRACT BETWEEN 2/01/24 AND 05/21/2024 BOTH INCLUSIVE AND THE VALUE THEREOF, BEING \$19,964.16 AS REQUIRED BY AGREEMENT ARTICLE 6.03 OF THE SAID CONTRACT.

PREPARED BY:

Marc A. Bellarese 12/13/24  
DATE

BY:

Juan Cozzee 12/13/24  
CONTRACTOR DATE

Bill P. 12/13/2024  
SR DISTRIBUTION ENGINEER DATE

Leonard F. Konaleski 12/20/2024  
EXECUTIVE ENGINEER DATE

PROJECT NUMBER: 202400206  
 EC/OWIP NUMBER: 107200-007441  
 PROJECT DISCRIPTION: Dewatering Valve - Hewson and Lakeshore

<i>BID ITEM #</i>	<i>EST. QUANTITY</i>	<i>UNIT</i>	<i>UNIT COST</i>	<i>MEASURED QUANTITY</i>	<i>AMOUNT</i>
1B1	10	LF@	\$100.00	5.00	\$500.00
2A2	1	Ea@	\$4,100.00	1.00	\$4,100.00
3A2	0	Ea@	\$3,210.00	1.00	\$3,210.00
3C2	1	Ea@	\$5,700.00	0.00	\$0.00
5A2	2	Ea@	\$325.00	2.00	\$650.00
6A1	10	LF@	\$2.00	10.00	\$20.00
13F1	15	SY @	\$33.00	25.00	\$825.00
14A1	0	Hrs @	\$550.00	1.00	\$550.00
14B2	1	ALW	\$100,000.00	2,134.47	\$2,134.47
<b>TOTAL:</b>					<b>\$11,989.47</b>

PROJECT NUMBER: 202400112  
 EC/OWIP NUMBER: 107200-007440  
 PROJECT DISCRIPTION: Sheridan Drive Pressure Zone Transfer

<i>BID ITEM #</i>	<i>EST. QUANTITY</i>	<i>UNIT</i>	<i>UNIT COST</i>	<i>MEASURED QUANTITY</i>	<i>AMOUNT</i>
1A1	94.5	LF@	\$85.00	94.50	\$8,032.50
1B1	87	LF@	\$100.00	87.00	\$8,700.00
2A1	1	Ea@	\$3,750.00	1.00	\$3,750.00
3A1	2	Ea@	\$2,675.00	2.00	\$5,350.00
3C1	1	Ea@	\$5,700.00	1.00	\$5,700.00
3C2	1	Ea@	\$5,700.00	1.00	\$5,700.00
5A1	6	Ea@	\$270.00	6.00	\$1,620.00
5A2	3	Ea@	\$325.00	3.00	\$975.00
6A1	174	LF@	\$2.00	174.00	\$348.00
7A1	15	QY @	\$320.00	15.00	\$4,800.00
7B1	3	Ea@	\$700.00	3.00	\$2,100.00
9A1	4	Ea@	\$2,150.00	4.00	\$8,600.00
9B1	21	LF@	\$17.00	21.00	\$357.00
12A3	87	LF@	\$11.00	87.00	\$957.00
12A4	89.5	LF@	\$11.00	89.50	\$984.50
13B1	15.68	SY @	\$140.00	15.68	\$2,195.20
13F1	162.22	SY @	\$33.00	162.22	\$5,353.26
14A1	2	Hrs @	\$550.00	2.00	\$1,100.00
14B2	1	ALW	\$100,000.00	15,987.99	\$15,987.99
14B4	1	ALW	\$50,000.00	3,868.32	\$3,868.32
<b>TOTAL:</b>					<b>\$86,478.77</b>





# ERIE COUNTY WATER AUTHORITY

## REQUISITION ON STORES

Project No.: 202400112      Date: 8-28-2024      Requisition No.: \_\_\_\_\_

Issue To: Kandey Co., Inc.

For Use In: Sheridan Drive Pressure Zone Project

Location: Sheridan Drive at Ledge Lane – Town of Clarence

OWIP: \_\_\_\_\_ EC NO.: 107200 7440      Svc. No.: \_\_\_\_\_

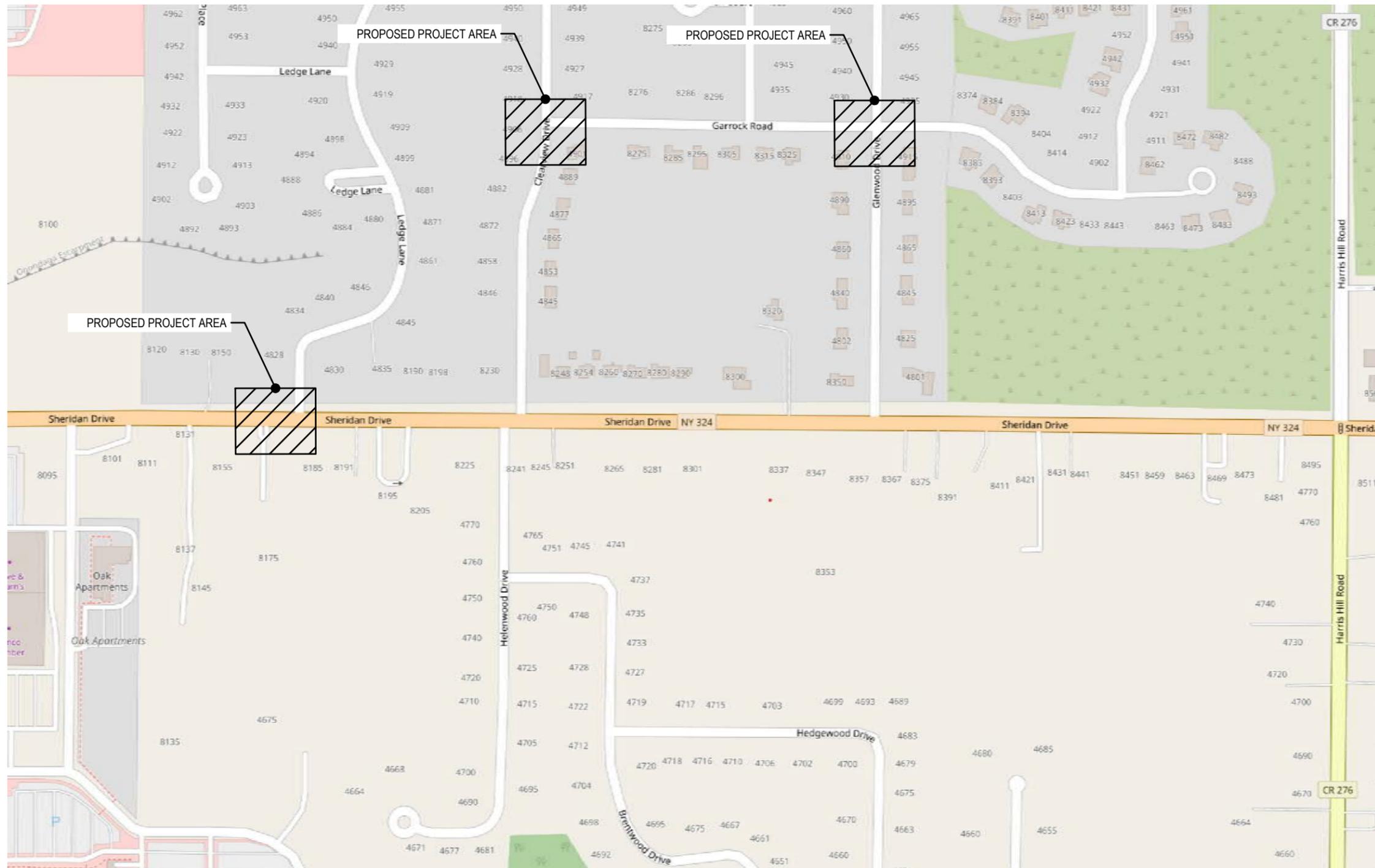
Quantity	Description	Part #	On Site	Used	Ret.
100 ft	10" PVC Pipe		100		
100 ft	8" PVC Pipe		120	100	20
10 ft	6" PVC Pipe		8		
2	8" 45° DI Bends MJ w/ Accessories		2		
3	8" MJ Gate Valve		3	2	1
2	10" MJ Gate Valve		2		
1	8"x8"x8" DI Tee MJ w/ Accessories		1		
2	10"x10"x8" DI Tee MJ w/ Accessories		2		
1	10"x8" DI MJ Reducer		1		
1	10"x6" DI MJ Reducer		1		
2	6" Solid Sleeve w/ Accessories		4	3	1
3	8" Solid Sleeve w/ Accessories		3	2	1
25 ft	Poly Wrap				
36	Ductile Lugs		36	0	36
14	8" PVC Mega Lugs		20	19	1
1	8" DI Mega Lugs		1		
11	10" PVC Mega Lugs		18		
2	6" PVC Mega Lugs		6		
4	6" CI Mega Lugs		6		
60 ft	¾" All Thread		60	0	60
36	¾" Nuts and Washers				
5	8" Joint Restraints – Complete both sides		5	4	1
5	10" Joint Restraints – Complete both sides		5	3	2
5	Complete Valve Box		6	5	1
2	10" Hymax		2		2
2	8" Hymax		2		2
50 ft	1" Copper		60	27	33
4	1" Flared Corp		4		
4	6" x 1" Service Saddle		4		
2	8" End Cap with 2" Hole		2	0	2
2	10" End Cap with 2" Hole		2	1	1
4	1" Flared Curb Stop w/Curb Box Complete		4		

Kandey Co., Inc \_\_\_\_\_

Inspector \_\_\_\_\_

# SHERIDAN DRIVE PRESSURE ZONE TRANSFER WATER SYSTEM IMPROVEMENTS ECWA PN202400112

TOWN OF CLARENCE  
ERIE COUNTY - NEW YORK



### General Notes

- 1.) ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ERIE COUNTY WATER AUTHORITY STANDARD DETAILS AND SPECIFICATIONS
- 2.) PVC WATERMANS SHALL BE PRESSURE TESTED IN ACCORDANCE WITH AWWA C605.
- 3.) WATERMANS SHALL BE TESTED AND DISINFECTED IN ACCORDANCE WITH AWWA STANDARD C651, HOWEVER THE TABLET METHOD IS NOT ALLOWED
- 4.) SEE STANDARD DETAIL GENERAL NOTES SECTION ON MISCELLANEOUS DETAILS
- 5.) CONTRACTOR TO PROVIDE MAINTENANCE AND PROTECTION OF TRAFFIC THROUGHOUT CONSTRUCTION
- 6.) SERVICE LOCATIONS ARE APPROXIMATIONS ONLY AND SHOULD BE FIELD CHECKED PRIOR TO CONSTRUCTION
- 7.) CONTRACTOR WILL BE REQUIRED TO COMPLETE TEST PITS AS DIRECTED BY THE ENGINEER.

### Legend

	= SANITARY MH
	= TRAFFIC MH
	= STORM MH
	= CATCH BASIN
	= UTILITY POLE
	= FIRE HYDRANT
	= WATER VALVE (PROPOSED)
	= WATER VALVE (EXISTING)
	= EXISTING WATERLINE
	= NEW WATERLINE
	= SANITARY SEWER
	= STORM SEWER
	= GAS MAIN
	= ELECTRIC
	= TELEPHONE

Name: LOCATION MAP AND LEGEND

Date: AUGUST 2024

Scale: NTS

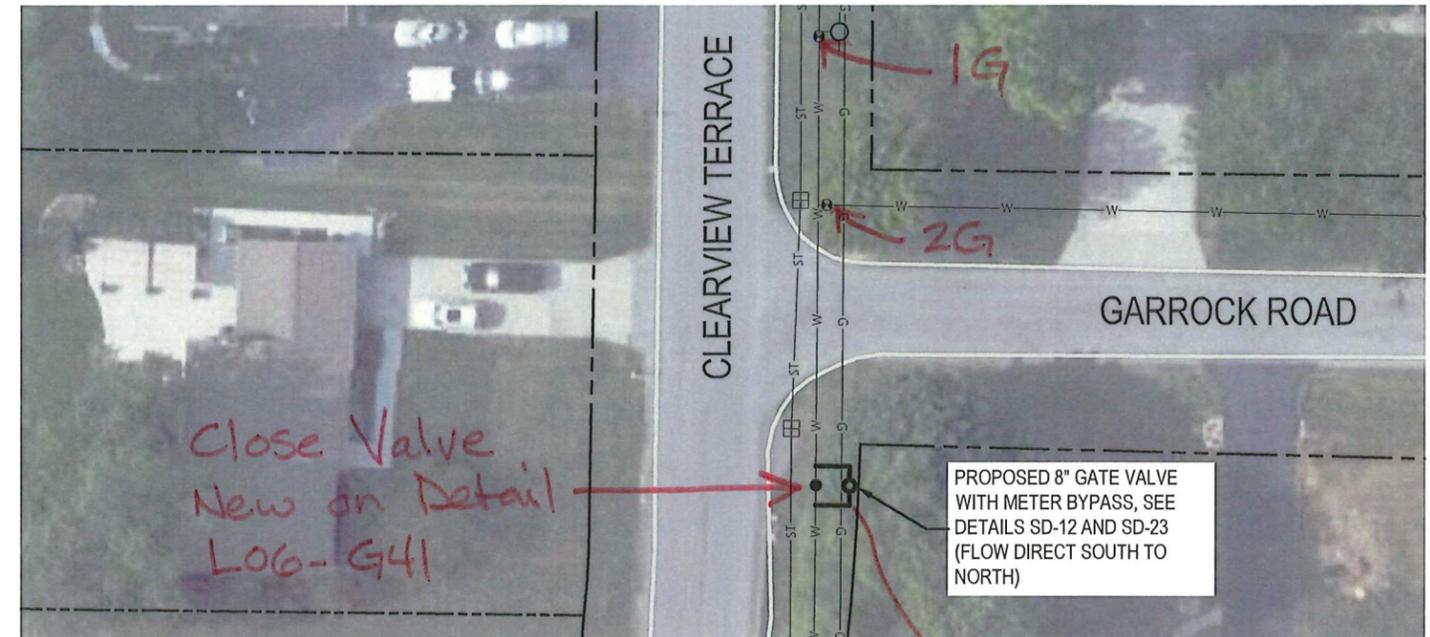
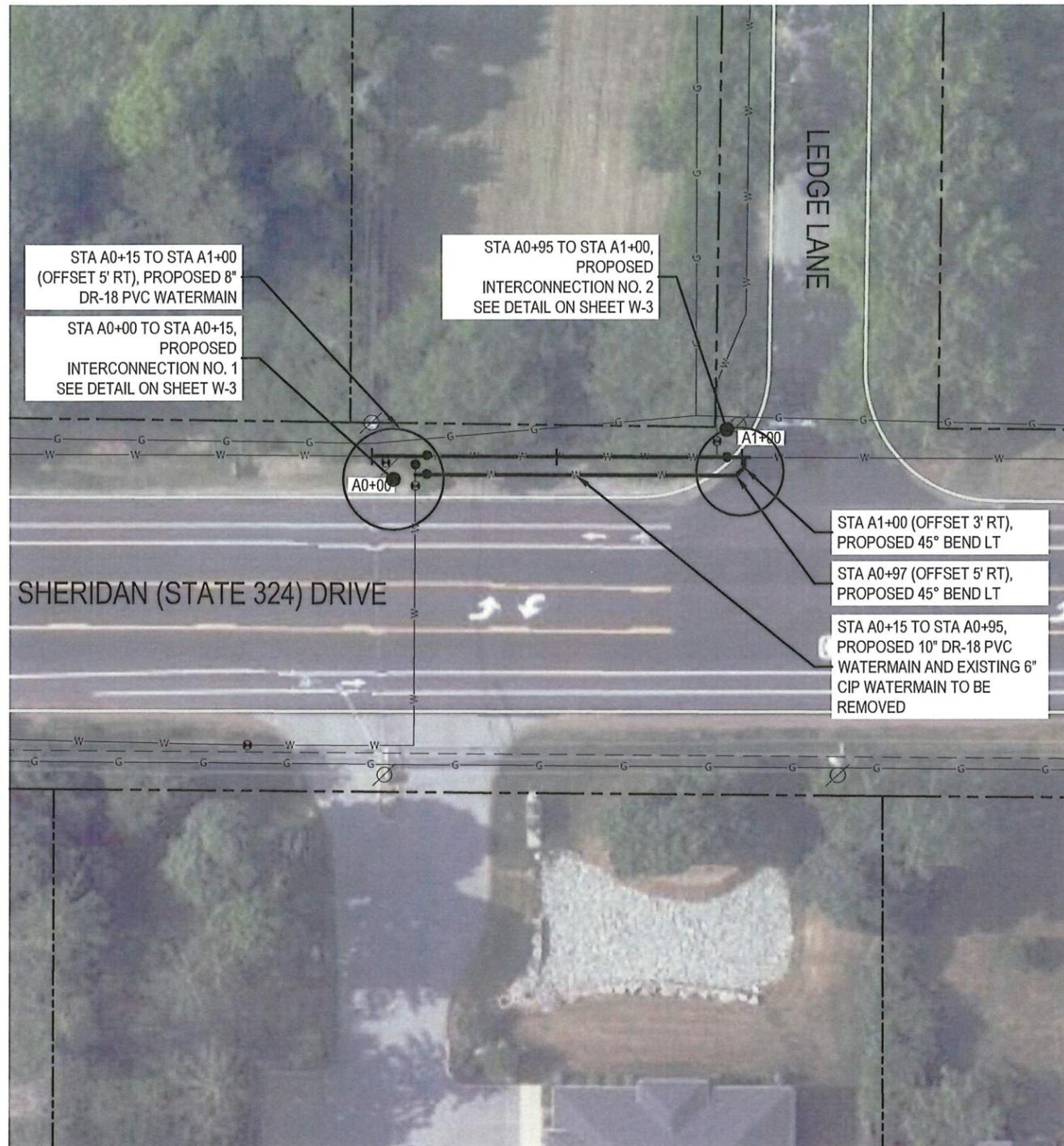
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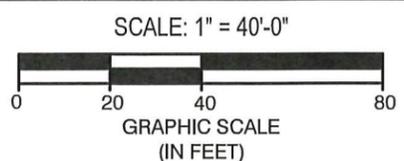
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Page: 1 of 9

File Name: 202400112- SHERIDAN DRIVE PRESSURE ZONE TRANSFER DESIGN



Make sure bypass is open



Approved By:



ALL UTILITIES ARE BASED ON BEST GIVEN INFORMATION AND ARE APPROXIMATE ONLY. SOME UTILITIES MAY NOT BE SHOWN. CONTRACTOR SHALL FIELD VERIFY ALL UTILITIES DURING EXCAVATION BY CONTACTING UFPO PRIOR TO PERFORMING ANY EARTHWORK.



ERIE COUNTY WATER AUTHORITY  
3030 UNION RD.  
CHEEKTOWAGA, NY 14227

Project Name  
**SHERIDAN DRIVE  
PRESSURE ZONE TRANSFER  
WATER SYSTEM IMPROVEMENTS  
ECWA PN202400112**

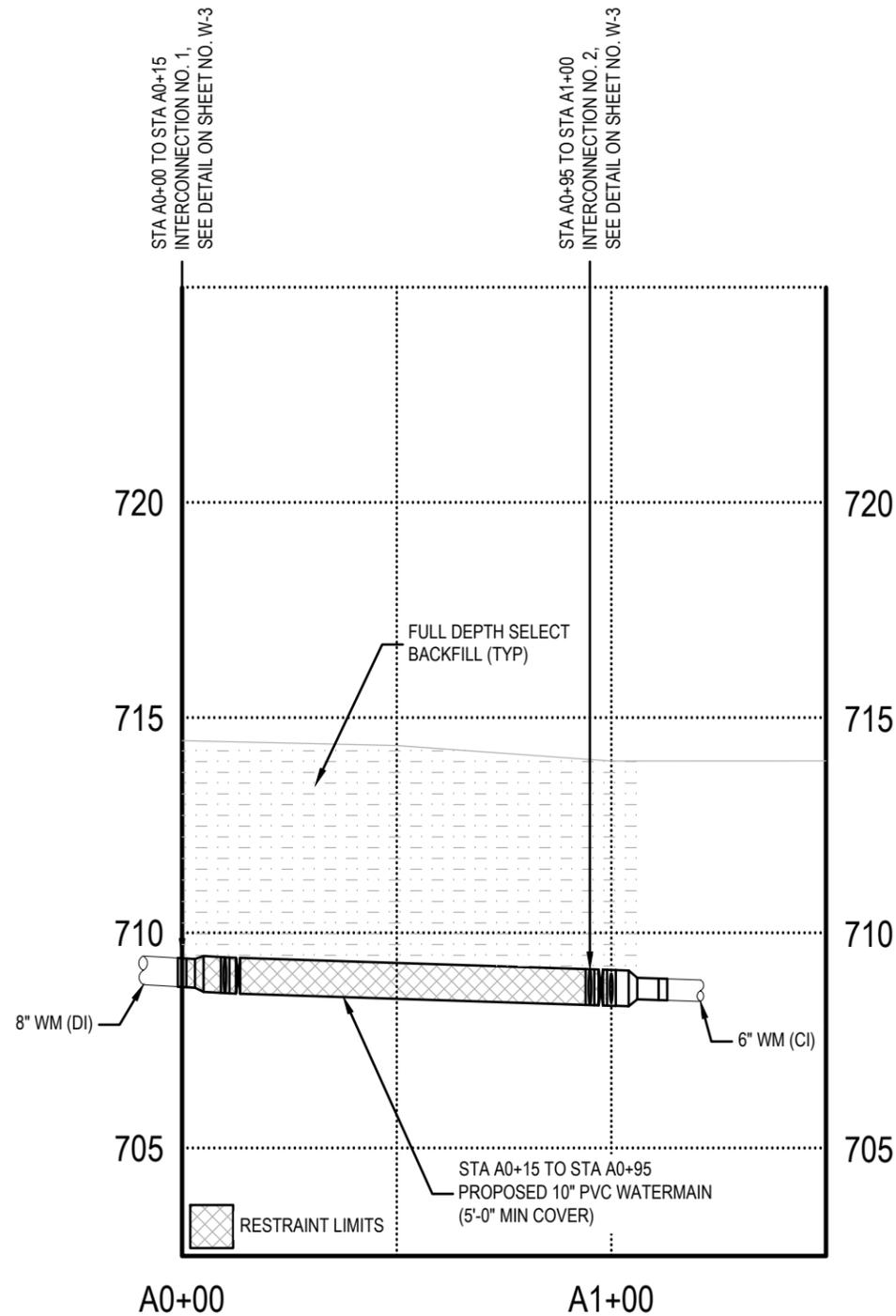
TOWN OF CLARENCE  
ERIE COUNTY - NEW YORK

Name:	PLAN
Date:	AUGUST 2024
Scale:	AS SHOWN
Drawn/Revised By:	MAB

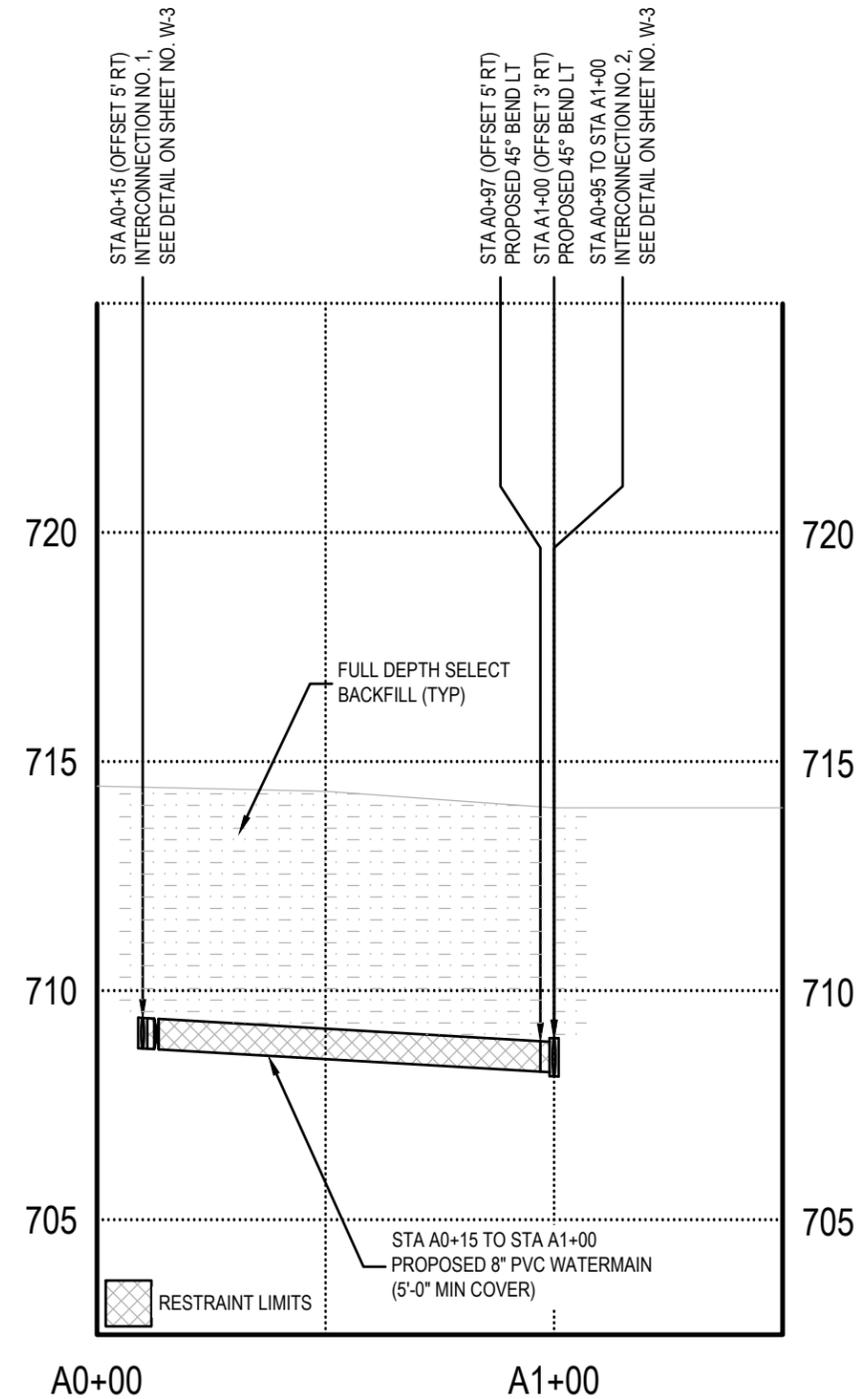
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Page: 2 of 9

File Name:  
202400112 - SHERIDAN DRIVE  
PRESSURE ZONE TRANSFER DESIGN

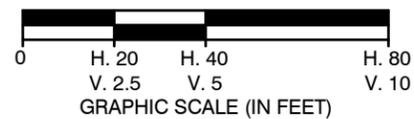


10" WATERMAIN



8" WATERMAIN

SCALE: HORZ. 1" = 40'-0"; VERT. 1" = 5'-0"



Approved By:



ERIE COUNTY WATER AUTHORITY  
 3030 UNION RD.  
 CHEEKTOWAGA, NY 14227

Project Name

SHERIDAN DRIVE  
 PRESSURE ZONE TRANSFER  
 WATER SYSTEM IMPROVEMENTS  
 ECWA PN202400112

TOWN OF CLARENCE  
 ERIE COUNTY - NEW YORK

Name: PROFILE

Date: AUGUST 2024

Scale: AS SHOWN

Drawn/Revised By: MAB

Sheet

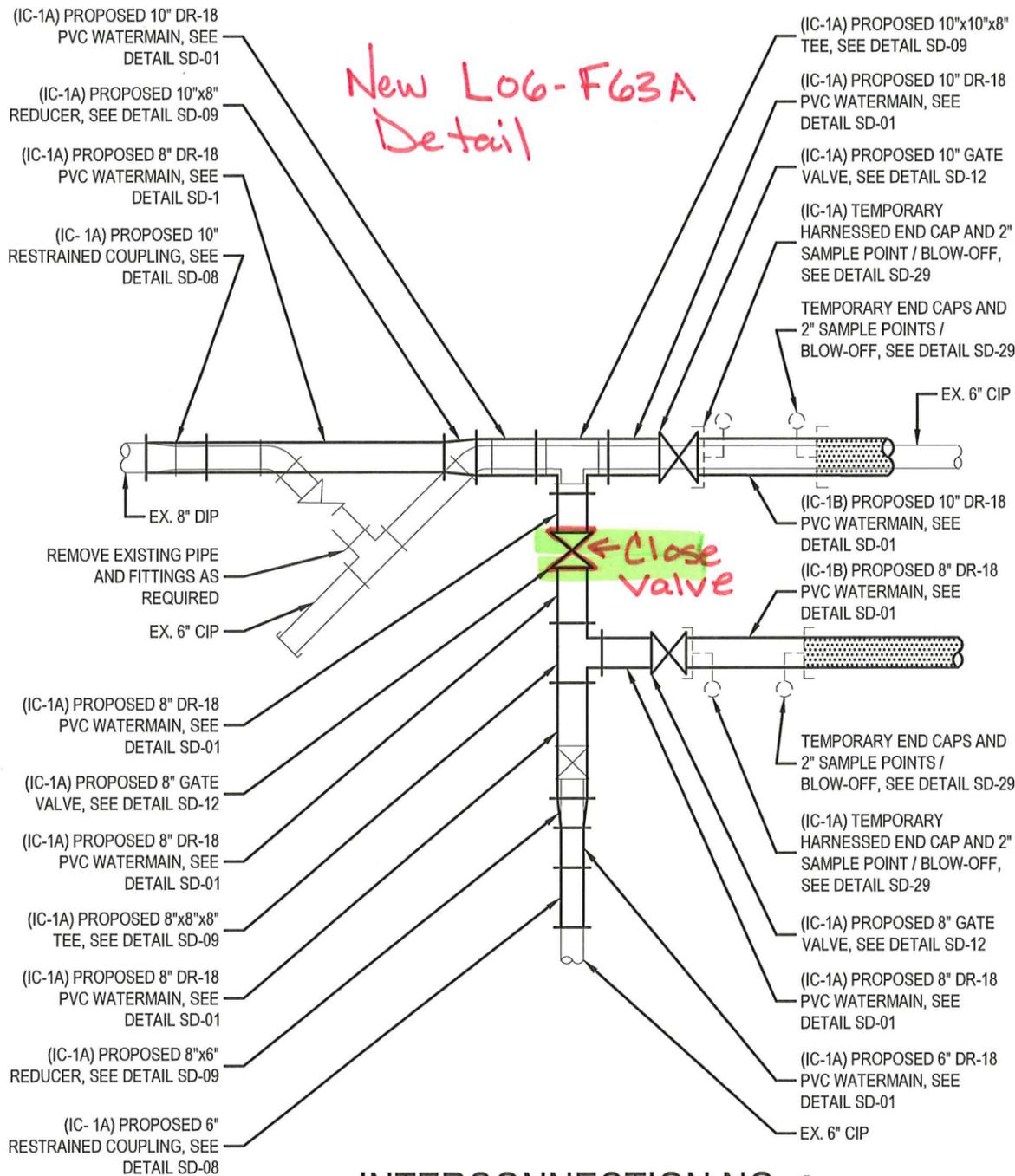
W-2

Page: 3 of 9

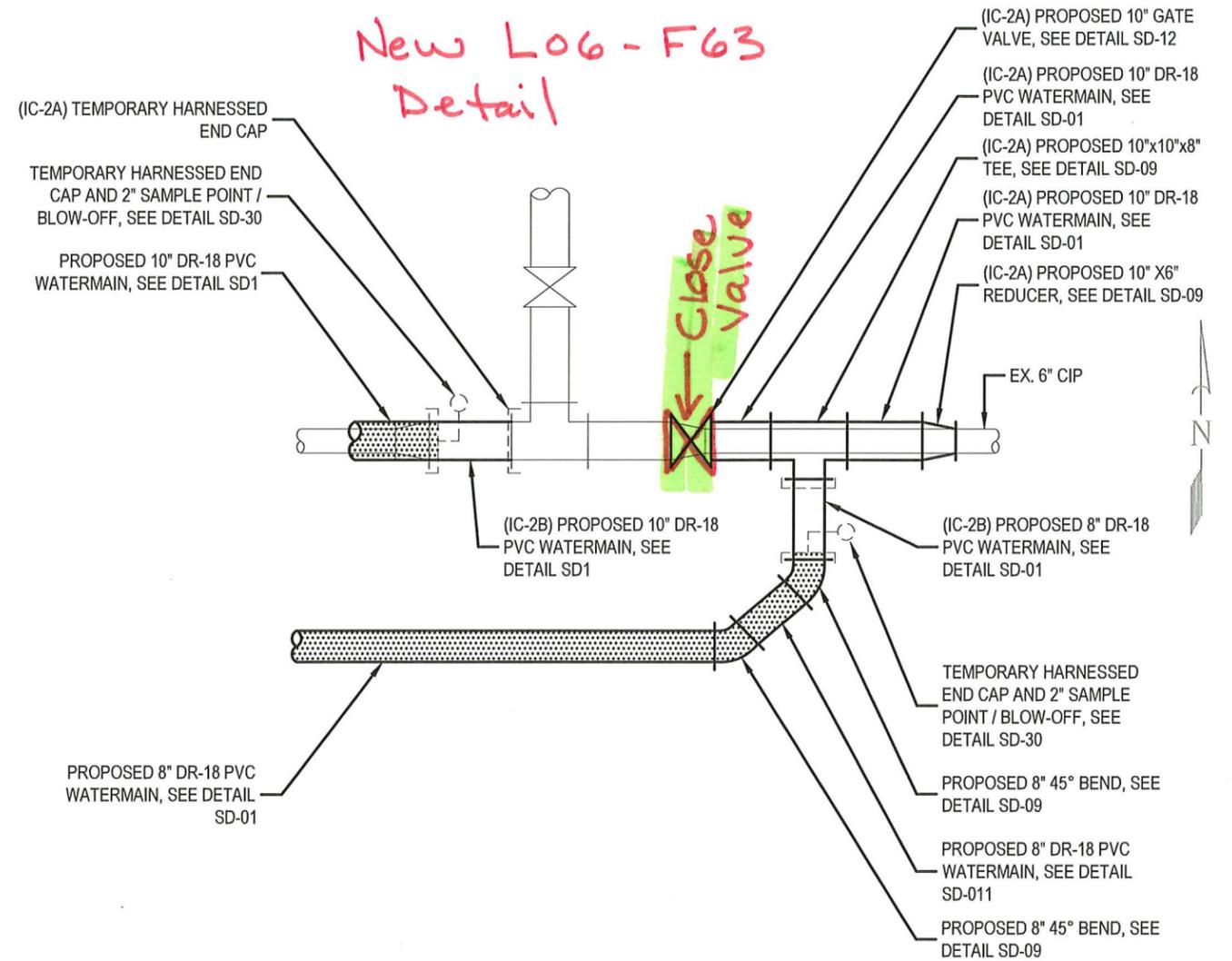
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 202400112 - SHERIDAN DRIVE  
 PRESSURE ZONE TRANSFER DESIGN



ALL UTILITIES ARE BASED ON BEST GIVEN INFORMATION AND ARE APPROXIMATE ONLY. SOME UTILITIES MAY NOT BE SHOWN. CONTRACTOR SHALL FIELD VERIFY ALL UTILITIES DURING EXCAVATION BY CONTACTING UFPO PRIOR TO PERFORMING ANY EARTHWORK.



**INTERCONNECTION NO. 1**



**INTERCONNECTION NO. 2**

..... PRESSURE TEST AND DISINFECTION LIMITS

SCALE: 1" = 4'-0"



GRAPHIC SCALE (IN FEET)

Approved By:



ERIE COUNTY WATER AUTHORITY  
3030 UNION RD.  
CHEEKTOWAGA, NY 14227

Project Name

SHERIDAN DRIVE  
PRESSURE ZONE TRANSFER  
WATER SYSTEM IMPROVEMENTS  
ECWA PN202400112

TOWN OF CLARENCE  
ERIE COUNTY - NEW YORK

Name:  
INTERCONNECTIONS

Date:  
AUGUST 2024

Scale:  
AS SHOWN

Drawn/Revised By:  
MAB

Sheet

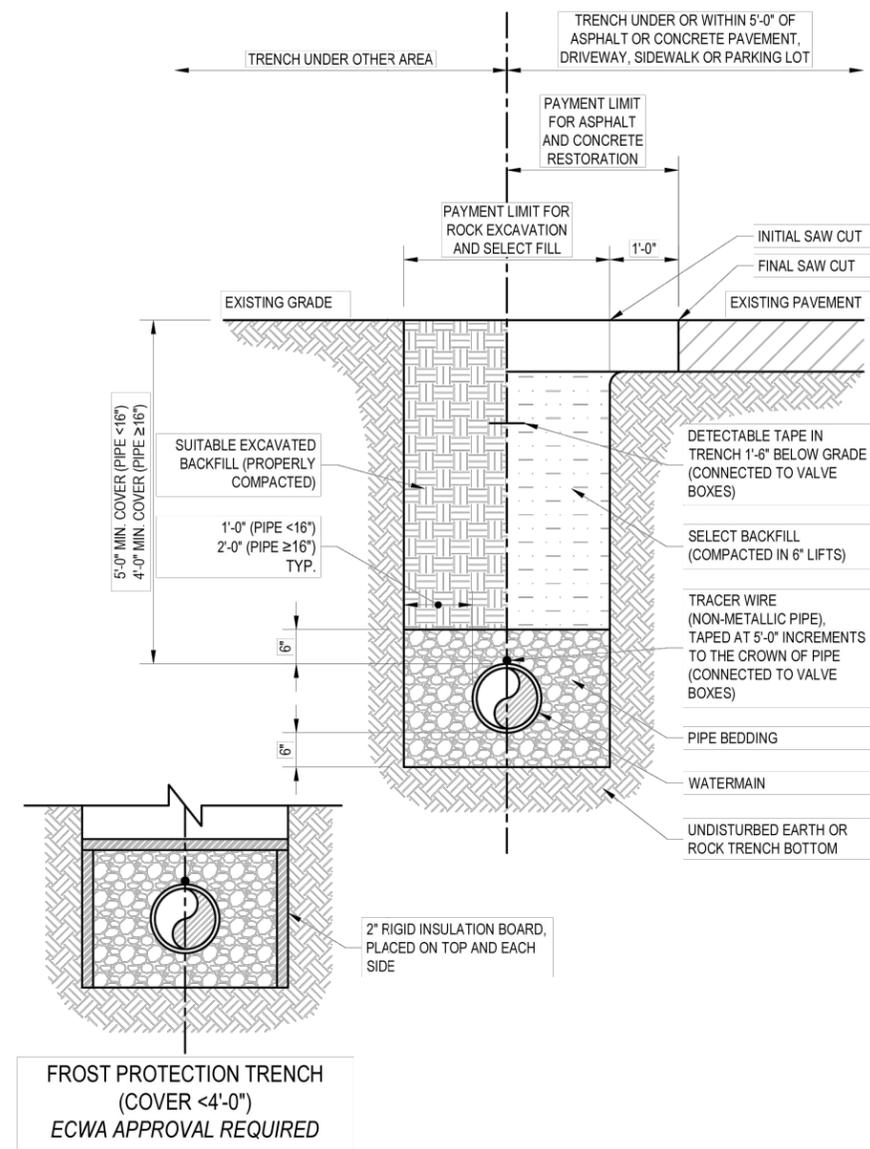
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Page: 4 of 9

File Name:  
202400112 - SHERIDAN DRIVE  
PRESSURE ZONE TRANSFER DESIGN

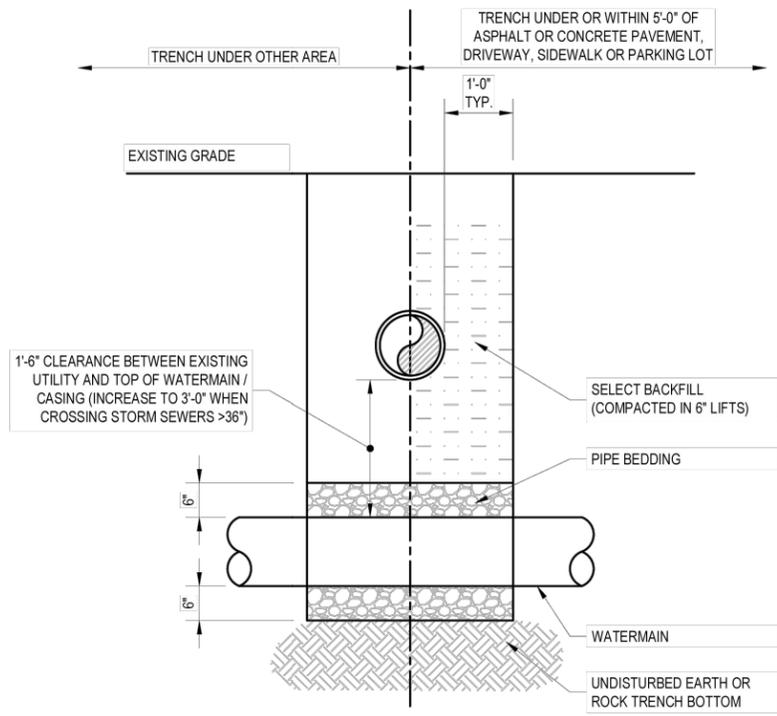


ALL UTILITIES ARE BASED ON BEST GIVEN INFORMATION AND ARE APPROXIMATE ONLY. SOME UTILITIES MAY NOT BE SHOWN. CONTRACTOR SHALL FIELD VERIFY ALL UTILITIES DURING EXCAVATION BY CONTACTING UFPO PRIOR TO PERFORMING ANY EARTHWORK.



**TYPICAL TRENCH DETAIL**  
SCALE: NTS

Revision: 2024-01  
Detail: SD-01



**PIPE CROSSING DETAIL**  
SCALE: NTS

- NOTES:
- ALL EXISTING UTILITIES MUST BE SUPPORTED WITH APPROPRIATE CHAINS / STRAPS DURING CONSTRUCTION OF THE NEW WATERMAIN. CONTRACTOR IS REQUIRED TO COORDINATE WITH THE OWNER FOR THEIR PREFERRED SUPPORT REQUIREMENTS.
  - WHEN CROSSING A SEWER LINE WITH NEW WATERMAIN (AND WITHOUT A CASING PIPE), ONE FULL LENGTH (18'-0" MIN.) SHALL BE USED AT THE POINT OF CROSSING. THE WATERMAIN SHALL BE PLACED SO THAT BOTH JOINT ENDS ARE AS FAR AS POSSIBLE FROM THE EXISTING SEWER.
  - IF CASING PIPE IS USED, IT SHALL EXTEND 5'-0" BEYOND THE EXISTING PIPE OUTER EDGE IN EACH DIRECTION, AND NO WATERMAIN JOINTS OR FITTINGS SHALL BE LOCATED WITHIN 4'-0" FROM THE CASING PIPE EDGE.

Revision: 2024-01  
Detail: SD-02

Approved By:

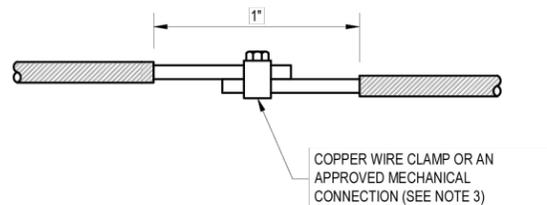
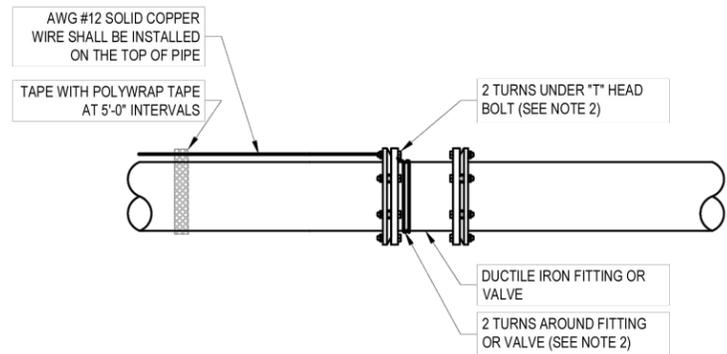


ERIE COUNTY WATER AUTHORITY  
3030 UNION RD.  
CHEEKTOWAGA, NY 14227

Project Name  
**SHERIDAN DRIVE  
PRESSURE ZONE TRANSFER  
WATER SYSTEM IMPROVEMENTS  
ECWA PN202400112**  
  
TOWN OF CLARENCE  
ERIE COUNTY - NEW YORK

Name: MISCELLANEOUS DETAILS  
Date: AUGUST 2024  
Scale: AS SHOWN  
Drawn/Revised By: MAB

Sheet  
**W-4**  
Page: 5 of 9  
File Name:  
202400112 - SHERIDAN DRIVE  
PRESSURE ZONE TRANSFER DESIGN



**NOTES:**

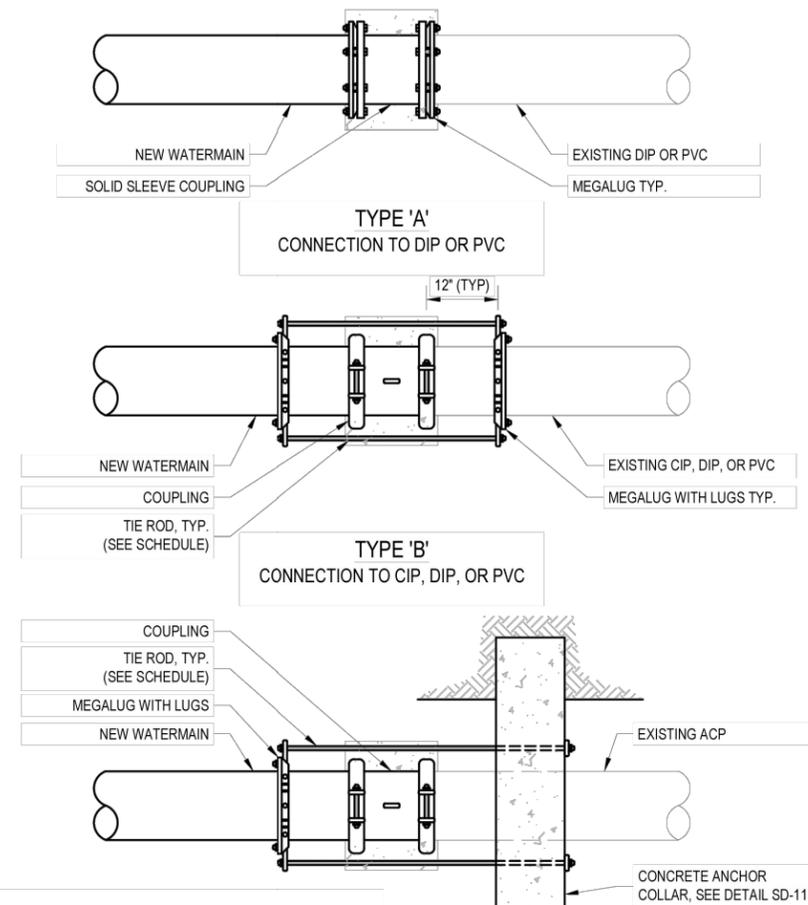
1. USE #12 AWG SOLID PLASTIC COATED COPPER WIRE.
2. STRIP 2" OF COATING AND WRAP WIRE 2 TURNS UNDER "T" HEAD BOLT ON TOP OF DUCTILE IRON FITTING (VALVE). NEXT WRAP WIRE 2 TURNS AROUND BELL OF FITTING (VALVE) AND TAPE TO THE TOP OF PIPE AT 5' INTERVALS THE LENGTH OF PVC/HDPE PIPE TO THE TEST STATION.
3. WIRE SPLICING IS NOT PERMITTED UNLESS APPROVED BY ENGINEER. ALL SPLICES MUST BE MADE BY USING COPPER WIRE SPlice, "U" BOLT ASSEMBLIES AND THEN WRAPPING WITH ELECTRICAL TAPE.
4. TEST STATIONS SHALL BE INSTALLED EVERY 500'. TEST STATIONS MAY INCLUDE VALVE BOXES, HYDRANTS, SERVICE BOXES, ETC.



**TRACER WIRE  
INSTALLATION**  
SCALE: NTS

Revision: 2024-01

Detail: **SD-06**



**NOTES:**

1. VALVES, TEES, AND FITTINGS MAY BE HARNESSSED SIMILARLY.
2. HARNESSING IS FOR RESISTANCE TO INTERNAL PRESSURE. PIPE AND FITTINGS MUST BE SUPPORTED ON FIRM BEDDING (4"x8"x16" SOLID CONCRETE BLOCKING AS REQUIRED) AND BACKFILLED CAREFULLY.
3. COAT ALL EXPOSED SURFACES OF HARNESS ASSEMBLY WITH BITUMINOUS COATING.
4. TIE RODS SHALL BE PLACED ON SIDES OF PIPE.

TIE ROD SCHEDULE		
PIPE SIZE	THREAD ROD	
	#	Ø



**TYPICAL CONNECTION TO  
EXISTING WATERMAIN**  
SCALE: NTS

Revision: 2024-01

Detail: **SD-08**

Approved By:



ERIE COUNTY WATER AUTHORITY  
3030 UNION RD.  
CHEEKTOWAGA, NY 14227

Project Name

SHERIDAN DRIVE  
PRESSURE ZONE TRANSFER  
WATER SYSTEM IMPROVEMENTS  
ECWA PN202400112

TOWN OF CLARENCE  
ERIE COUNTY - NEW YORK

Name: MISCELLANOUS  
DETAILS

Date: AUGUST 2024

Scale: AS SHOWN

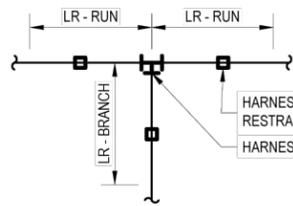
Drawn/Revised By:  
MAB

Sheet

**W-5**

Page: 6 of 9

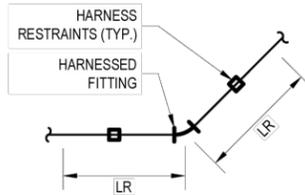
File Name:  
202400112 - SHERIDAN DRIVE  
PRESSURE ZONE TRANSFER DESIGN



TEE SIZE (RUN x BRANCH)	LR RUN	LR BRANCH	TEE SIZE (RUN x BRANCH)	LR RUN	LR BRANCH
8"x6"	5'	40'	12"x10"	5'	80'
8"x8"	5'	70'	12"x12"	5'	110'
10"x6"	5'	30'	16"x6"	5'	20'
10"x8"	5'	60'	16"x8"	5'	35'
10"x10"	5'	90'	16"x10"	5'	65'
12"x6"	5'	20'	16"x12"	5'	90'
12"x8"	5'	55'	16"x16"	5'	145'

**TEES**

\*LENGTHS SHOWN ARE MINIMUM REQUIREMENTS



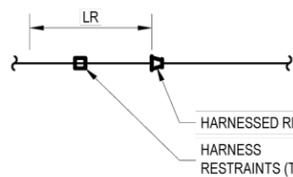
PIPE SIZE	LR			
	90° BEND	45° BEND	22.5° BEND	11.25° BEND
6"	35'	15'	10'	5'
8"	40'	20'	10'	5'
10"	55'	25'	15'	10'
12"	60'	30'	15'	10'
16"	80'	35'	20'	10'

\*LENGTHS SHOWN ARE MINIMUM REQUIREMENTS

**NOTE:**

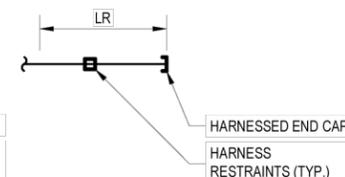
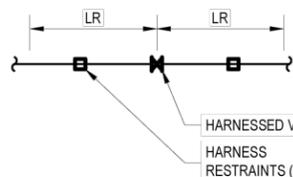
BACK TO BACK FITTINGS WITHIN 5' OF EACH OTHER SHALL BE RESTRAINED AT LENGTHS OF 2 TIMES THE FITTING DEGREES (I.E. 2- 45° = 90° RESTRAINT LENGTH)

**BENDS**



REDUCER SIZE	LR	REDUCER SIZE	LR
6"x4"	40'	12"x8"	75'
8"x4"	70'	12"x10"	40'
8"x6"	45'	16"x6"	150'
10"x6"	75'	16"x8"	130'
10"x8"	40'	16"x10"	105'
12"x6"	100'	16"x12"	75'

\*LENGTHS SHOWN ARE MINIMUM REQUIREMENTS



VALVE/END CAP SIZE	LR
4"	55'
6"	75'
8"	100'
10"	115'
12"	140'
16"	175'

\*LENGTHS SHOWN ARE MINIMUM REQUIREMENTS

**VALVES / END CAPS**



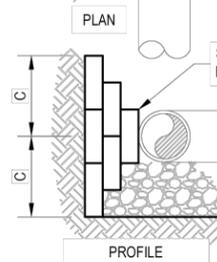
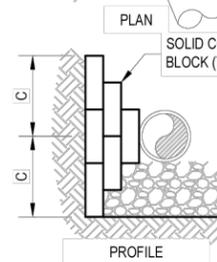
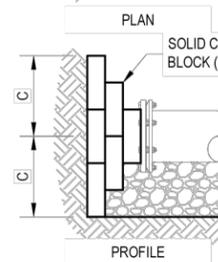
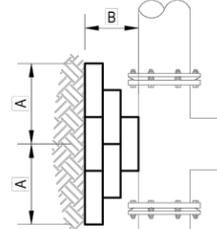
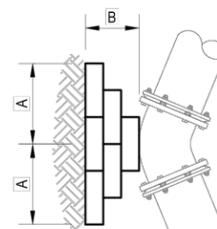
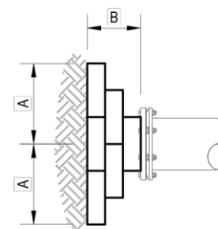
**RESTRAINED JOINT  
SCHEDULE**  
SCALE: NTS

Revision:

2024-01

Detail:

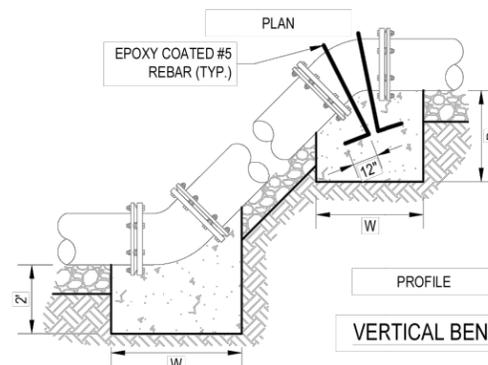
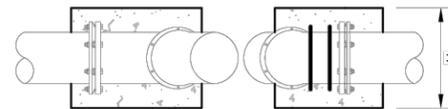
**SD-09**



**DEAD END**

**HORIZONTAL BEND**

**TEE**



**VERTICAL BEND**

**NOTE:**

FULL CONCRETE THRUST BLOCKS AS SHOWN ARE REQUIRED WHEN THRUST RESTRAINT IS NOT PROVIDED BY OTHER MEANS SUCH AS MJ RESTRAINTS

PIPE SIZE	90° BEND, TEE, OR DEAD END			45° BEND		
	A	B	C	A	B	C
6"	1.5'	1.0'	0.5'	0.75'	1.0'	0.5'
8"	1.5'	1.0'	0.75'	1.5'	1.0'	0.5'
10"	1.5'	1.5'	1.0'	1.5'	1.5'	0.75'
12"	2.0'	2.0'	1.0'	1.75'	1.75'	0.75'

PIPE SIZE	22.5° BEND			11.25° BEND		
	A	B	C	A	B	C
6"	0.5'	1.0'	0.5'	0.5'	1.0'	0.5'
8"	0.75'	1.0'	0.5'	0.5'	1.0'	0.5'
10"	1.0'	1.5'	0.75'	1.0'	1.0'	0.75'
12"	1.25'	1.75'	0.75'	1.25'	1.25'	0.75'

PIPE SIZE	VERTICAL BEND UP			VERTICAL BEND DOWN		
	D	H	W	D	H	W
6"	2.0'	5.0'	3.0'	3.5'	3.5'	3.0'
8"	2.0'	6.0'	4.0'	4.5'	4.5'	4.0'
10"	2.0'	6.25'	4.5'	4.75'	4.75'	4.5'
12"	2.0'	6.5'	5.0'	5.0'	5.0'	5.0'

\*LENGTHS SHOWN ARE MINIMUM REQUIREMENTS



**THRUST BLOCKS**  
SCALE: NTS

Revision:

2024-01

Detail:

**SD-10**

Approved By:



ERIE COUNTY WATER AUTHORITY  
3030 UNION RD.  
CHEEKTOWAGA, NY 14227

Project Name

SHERIDAN DRIVE  
PRESSURE ZONE TRANSFER  
WATER SYSTEM IMPROVEMENTS  
ECWA PN202400112

TOWN OF CLARENCE  
ERIE COUNTY - NEW YORK

Name: MISCELLANEOUS  
DETAILS

Date: AUGUST 2024

Scale: AS SHOWN

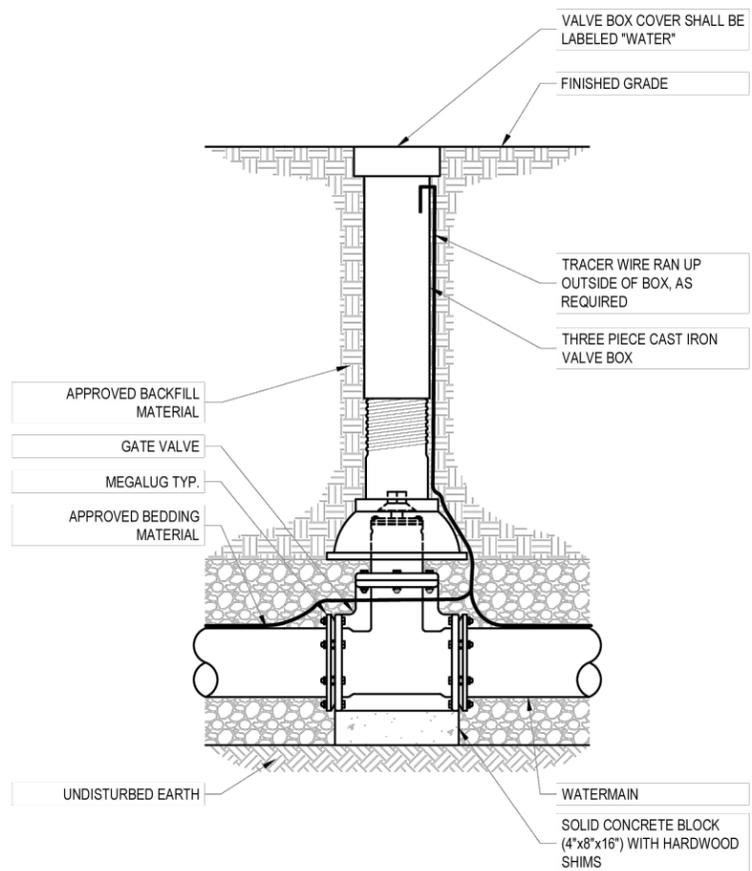
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MAB

Sheet

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Page: 7 of 9

File Name:  
202400112 - SHERIDAN DRIVE  
PRESSURE ZONE TRANSFER DESIGN



NOTES:

1. VALVE SHALL NOT SUPPORT VALVE BOX.
2. GATE VALVE SHALL BE INSTALLED LEVEL AND VERTICALLY PLUMB.
3. VALVE BOX SHALL BE PLUMB TO GRADE, WITH OPERATING NUT CENTERED IN BOX.



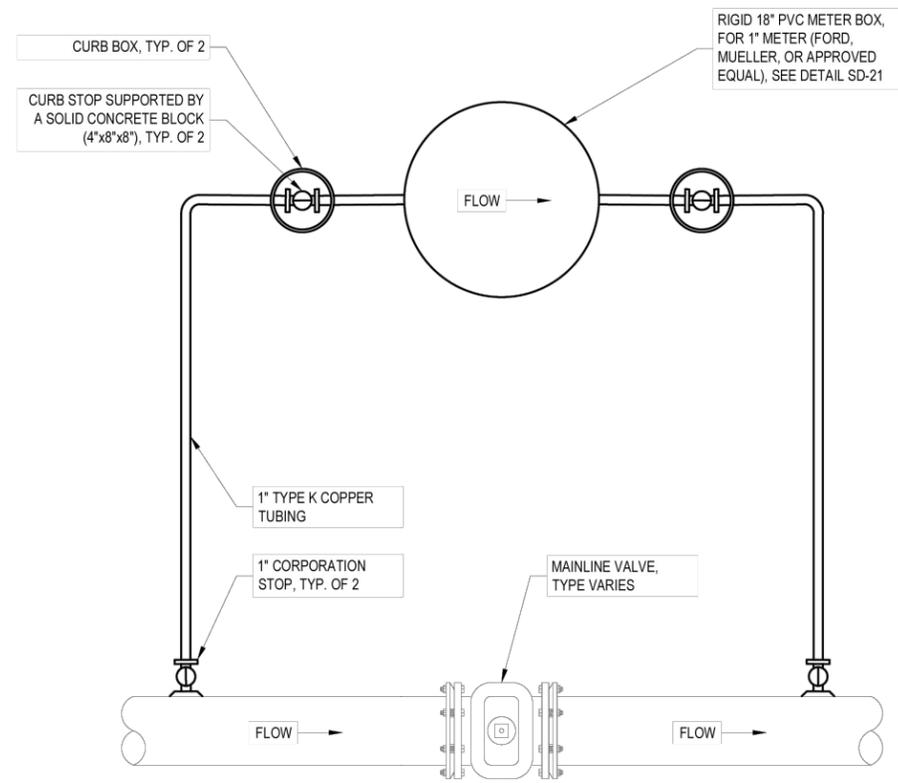
### GATE VALVE SETTING

SCALE: NTS

Revision: 2024-01

Detail:

## SD-12



NOTES:

1. METER BYPASS IS REQUIRED AT ALL WATERWAY CROSSING WHERE THE WATERWAY IS 15' OR GREATER IN WIDTH.
2. METER BOX SHALL BE INSTALLED A MINIMUM 5'-0" FROM THE MAIN TOWARDS THE RIGHT-OF-WAY. THE METER BOX SHALL NOT BE INSTALLED WITHIN THE PAVEMENT (MIN. 5'-0" FROM EDGE OF PAVEMENT).



### METER BYPASS

SCALE: NTS

Revision: 2024-01

Detail:

## SD-23

Approved By:



ERIE COUNTY WATER AUTHORITY  
3030 UNION RD.  
CHEEKTOWAGA, NY 14227

Project Name

SHERIDAN DRIVE  
PRESSURE ZONE TRANSFER  
WATER SYSTEM IMPROVEMENTS  
ECWA PN202400112

TOWN OF CLARENCE  
ERIE COUNTY - NEW YORK

Name: MISCELLANEOUS  
DETAILS

Date: AUGUST 2024

Scale: AS SHOWN

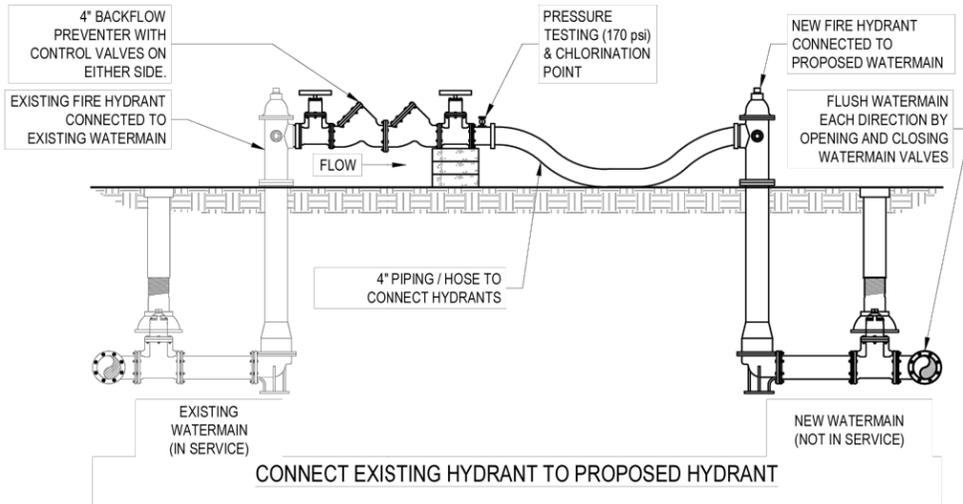
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MAB

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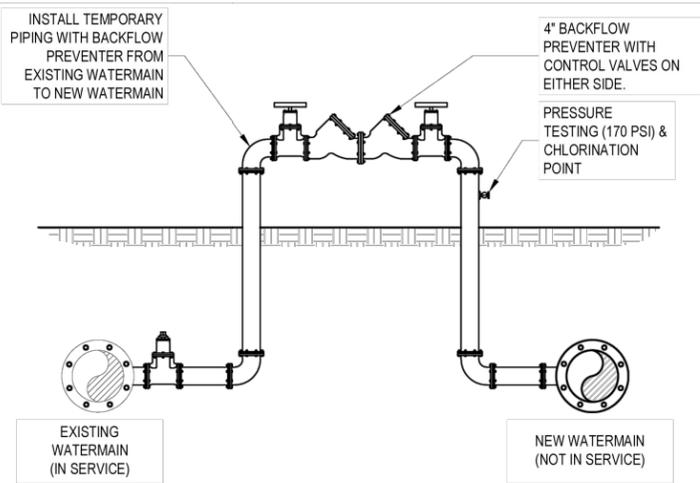
# W-7

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File Name:  
202400112 - SHERIDAN DRIVE  
PRESSURE ZONE TRANSFER DESIGN



CONNECT EXISTING HYDRANT TO PROPOSED HYDRANT



SERVICE TAP, TAPPING SLEEVE AND VALVE, OR INTERCONNECTION

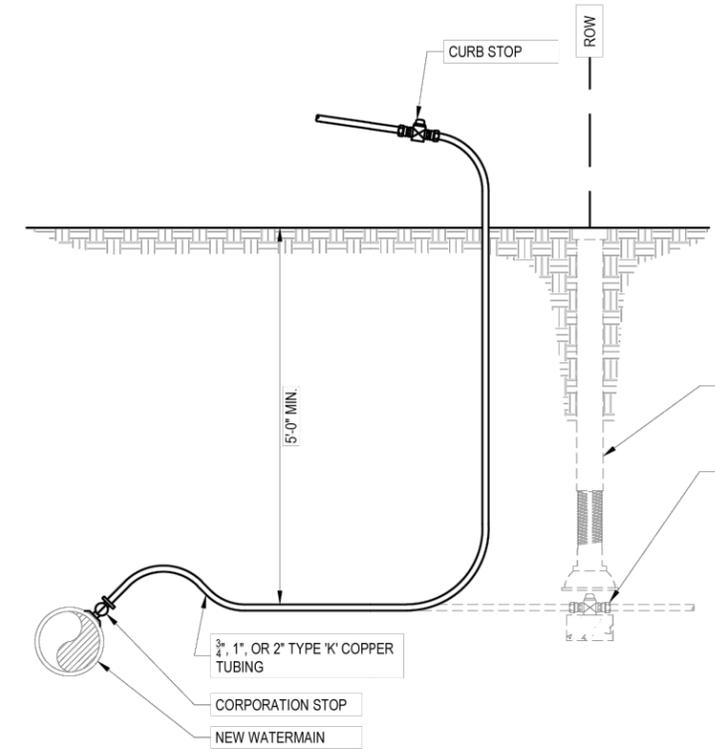
NOTES:

1. THE PURPOSE OF THIS DETAIL IS TO DEPICT ACCEPTABLE METHODS OF CONNECTING EXISTING WATERMAINS TO PROPOSED WATERMAINS FOR FILLING, SCOURING, TESTING AND CHLORINATION.
2. FIRE HOSE, TEMPORARY PIPING, AND BACKFLOW PREVENTERS SHALL NOT ENCR OACH INTO ROADWAYS, DRIVEWAYS, OR SIDEWALK AREAS WITHOUT PROVIDING PROPER MAINTENANCE AND PROTECTION OF TRAFFIC MEASURES.



**SOURCE WATER CONNECTIONS  
AND PRESSURE TESTING /  
CHLORINATION POINT**  
SCALE: NTS

Revision: 2024-01  
Detail: **SD-29**



NOTES:

1. AFTER COMPLETION OF TESTING, THE SAMPLE POINT SHALL BE UTILIZED FOR A SERVICE CONNECTION. IF UNABLE TO UTILIZE FOR A SERVICE REPLACE THE CORPORATION STOP IN PIPE WITH A THREADED BRASS PLUG.



**TEMPORARY BLOW-OFF /  
SAMPLING POINT**  
SCALE: NTS

Revision: 2024-01  
Detail: **SD-30**

Approved By:



Project Name  
**SHERIDAN DRIVE  
PRESSURE ZONE TRANSFER  
WATER SYSTEM IMPROVEMENTS  
ECWA PN202400112**  
  
TOWN OF CLARENCE  
ERIE COUNTY - NEW YORK

Name: MISCELLANEOUS  
DETAILS  
Date: AUGUST 2024  
Scale: AS SHOWN  
Drawn/Revised By: MAB

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**W-8**  
Page: 8 of 9  
File Name:  
202400112 - SHERIDAN DRIVE  
PRESSURE ZONE TRANSFER DESIGN



**ERIE COUNTY**  
**WATER AUTHORITY**  
 BUFFALO, NEW YORK

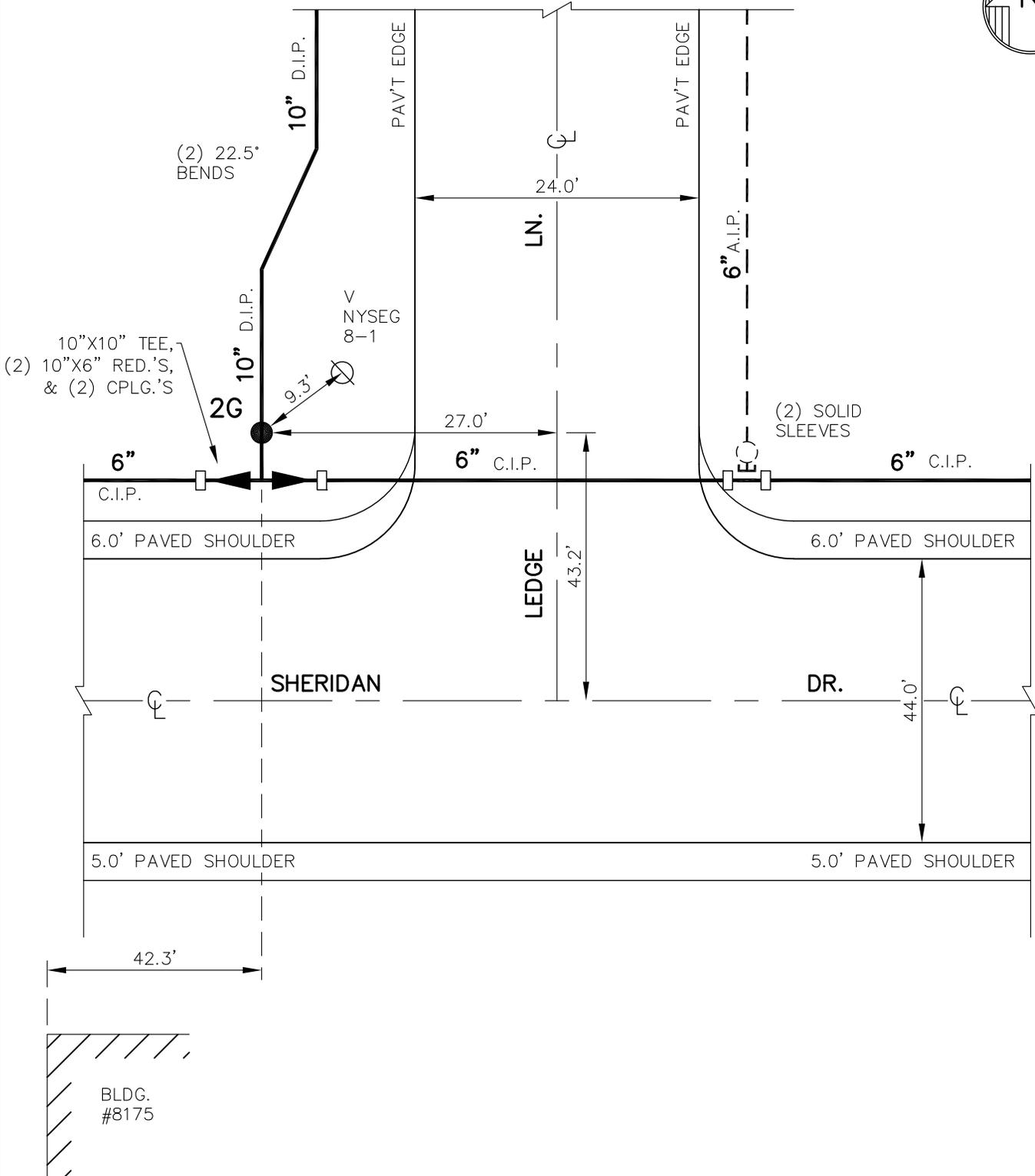
REVISED DR. R.D.C.  
 DATE: 8/8/2019  
 FIELD

REVISED DR.  
 DATE:  
 OFFICE

**TOWN OF CLARENCE**  
**E.C.W.A.**

**L06-F63**  
 DETAIL SHT. NO.  
 201800079  
 CURRENT PROJECT NO.

NOTE: VALVE 1G A.I.P. UNDER  
 CONT-CPL-004-1801.



NOTE: DETAIL DRAWN ON CAD SYSTEM.  
 DRAWN FROM PROPOSED PLANS.

CONT-CPL-004-1801  
 HWNY-761-9402-PDS-222  
 CLTN-928-9901-P  
 DWG.SET 1(38)

**L06-F63**  
 DETAIL SHT. NO.

**MASTER COPY**



**ERIE COUNTY**  
**WATER AUTHORITY**  
 BUFFALO, NEW YORK

REVISED DR. R.D.C.  
 DATE: 8/30/2018  
 FIELD

REVISED DR.  
 DATE:  
 OFFICE

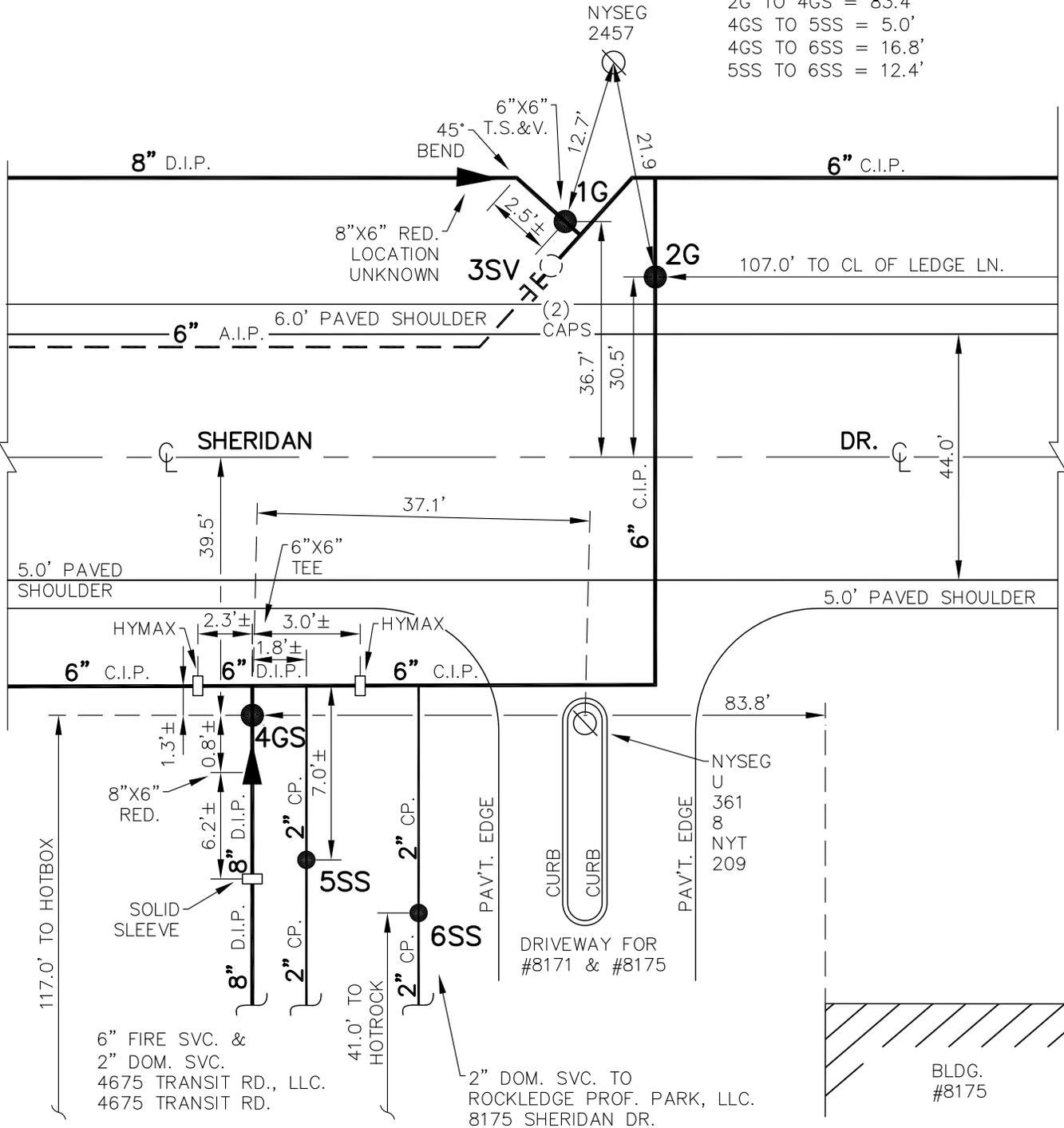
**TOWN OF CLARENCE**  
**E.C.W.A.**

**L06-F63A**  
 DETAIL SHT. NO.  
 201400122  
 CURRENT PROJECT NO.

NOTE: VALVE 3U SACRIFICED ON 11/3/2014. MAIN CAPPED SW/O VALVE 3SV.



- 1G TO 2G = 10.5'
- 1G TO 3SV = 2.0'±
- 1G TO 4GS = 84.9'
- 2G TO 4GS = 83.4'
- 4GS TO 5SS = 5.0'
- 4GS TO 6SS = 16.8'
- 5SS TO 6SS = 12.4'



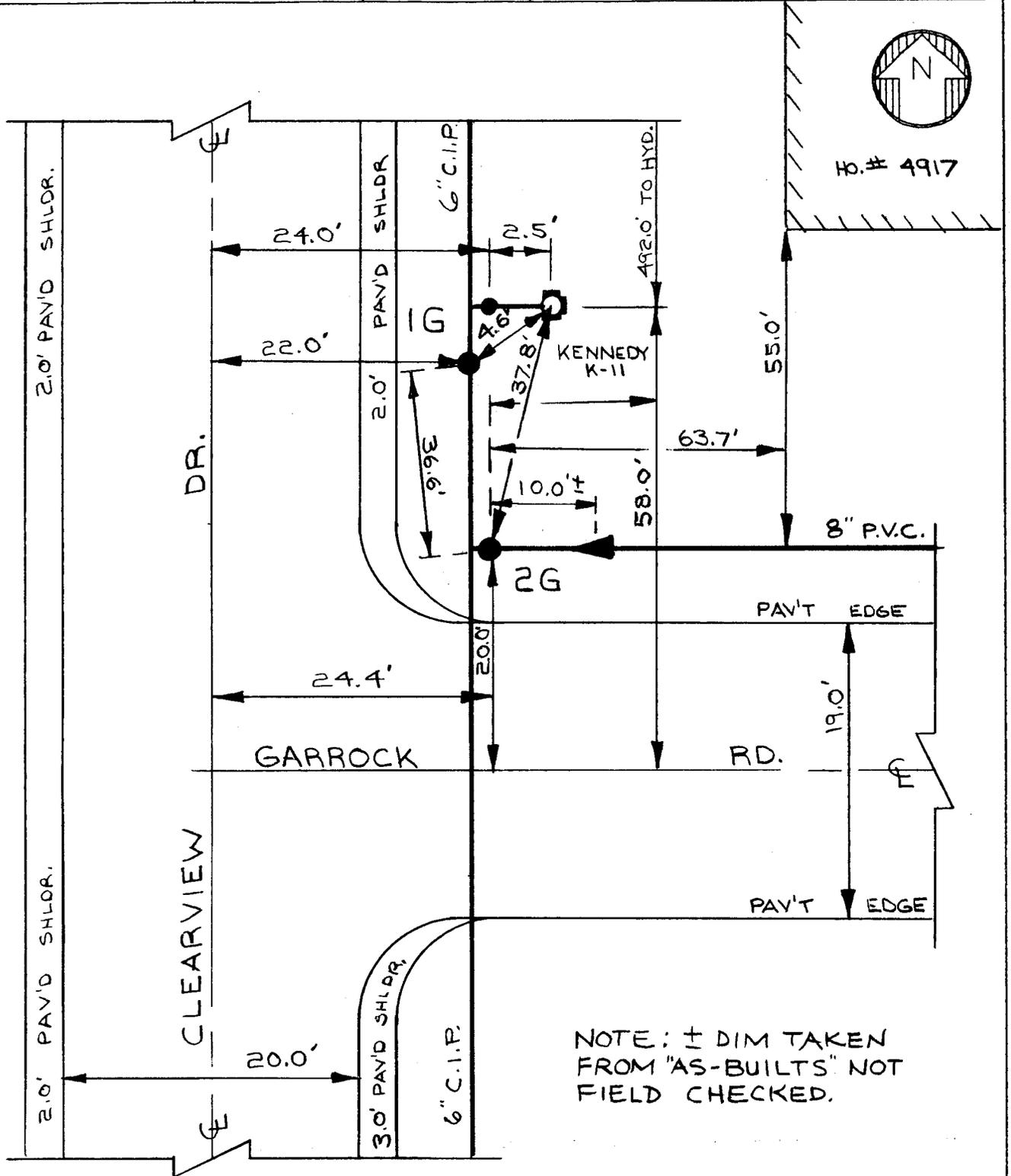
NOTE: DETAIL DRAWN ON CAD SYSTEM. ± DIMENSIONS FROM AS-BUILTS AND LINE MAINTENANCE, NOT FIELD CHECKED.

CLTN-888-1402  
 W.O. #1471521  
 W.O. #0066622  
 CLTN-928-9901-P  
 DWG.SET 1(37)  
 HWNY-761-9402-PDS-222

**L06-F63A**  
 DETAIL SHT. NO.

**MASTER COPY**

# 4918



HO.# 4917

NOTE: ± DIM TAKEN FROM "AS-BUILTS" NOT FIELD CHECKED.

DWGSET 9(17)  
 CLTN-928-9901-P

LOG-G41  
 DETAIL SHT. NO.

**MASTER COPY**



**ERIE COUNTY**  
**WATER AUTHORITY**  
 BUFFALO, NEW YORK

REVISED DR. M.J.M.  
 DATE: 10/1/2019  
 FIELD

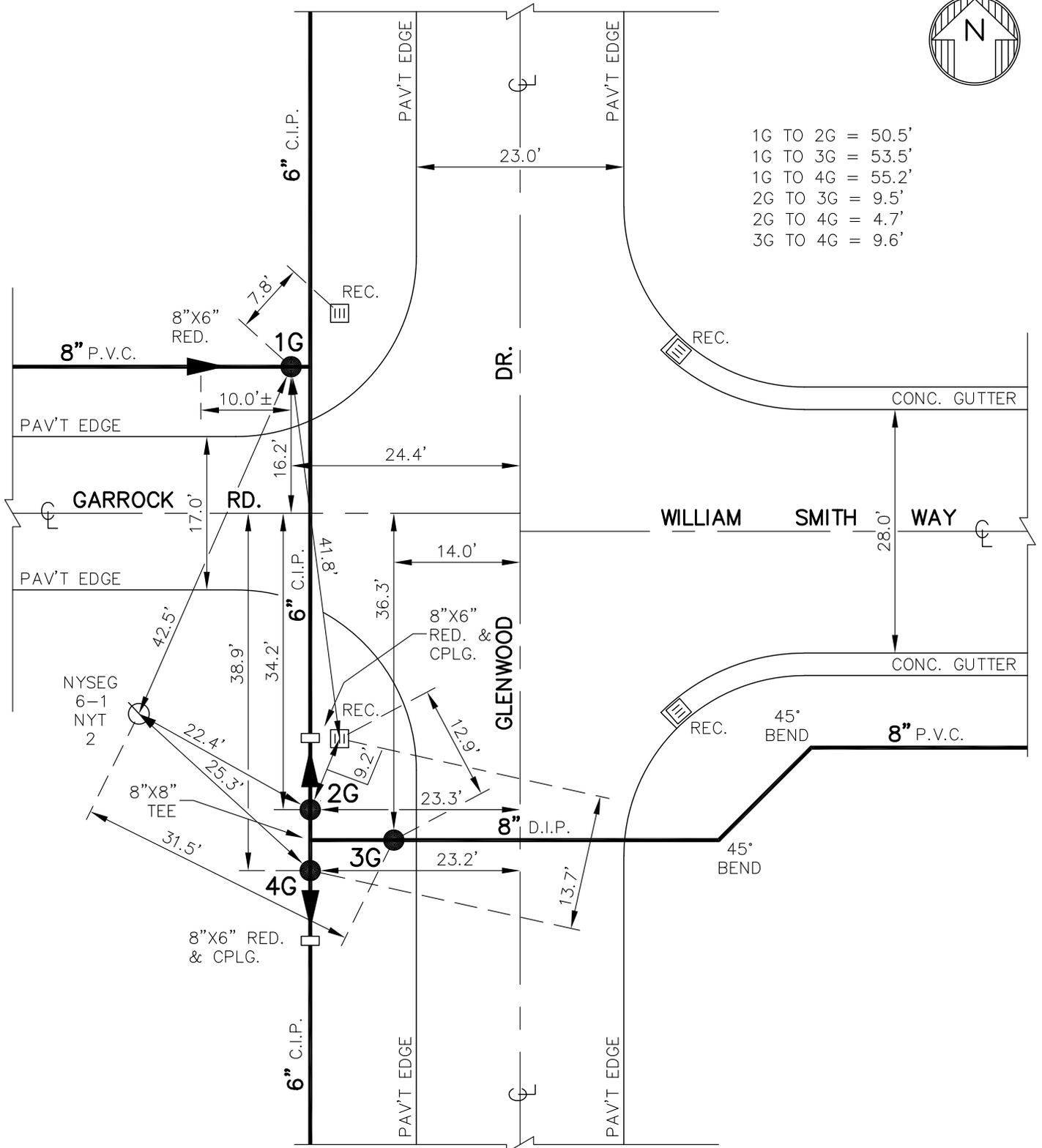
REVISED DR. R.D.C.  
 DATE: 5/9/2020  
 OFFICE

**TOWN OF CLARENCE**  
**E.C.W.A.**

**L06-G44**  
 DETAIL SHT. NO.  
**201800208**  
 CURRENT PROJECT NO.



1G TO 2G = 50.5'  
 1G TO 3G = 53.5'  
 1G TO 4G = 55.2'  
 2G TO 3G = 9.5'  
 2G TO 4G = 4.7'  
 3G TO 4G = 9.6'



NOTE: DETAIL DRAWN ON CAD SYSTEM.  
 ± DIMENSIONS FROM TOWN OF CLARENCE DRAWINGS, NOT FIELD CHECKED.

BCD-18-06  
 DWG.SET 9(18)  
 CLTN-928-9901-P

**L06-G44**  
 DETAIL SHT. NO.

**MASTER COPY**



**ERIE COUNTY**  
**WATER AUTHORITY**  
 BUFFALO, NEW YORK

REVISED DR. R.D.C.  
 DATE: 10/9/2019  
 FIELD

REVISED DR.  
 DATE:  
 OFFICE

TOWN OF CLARENCE

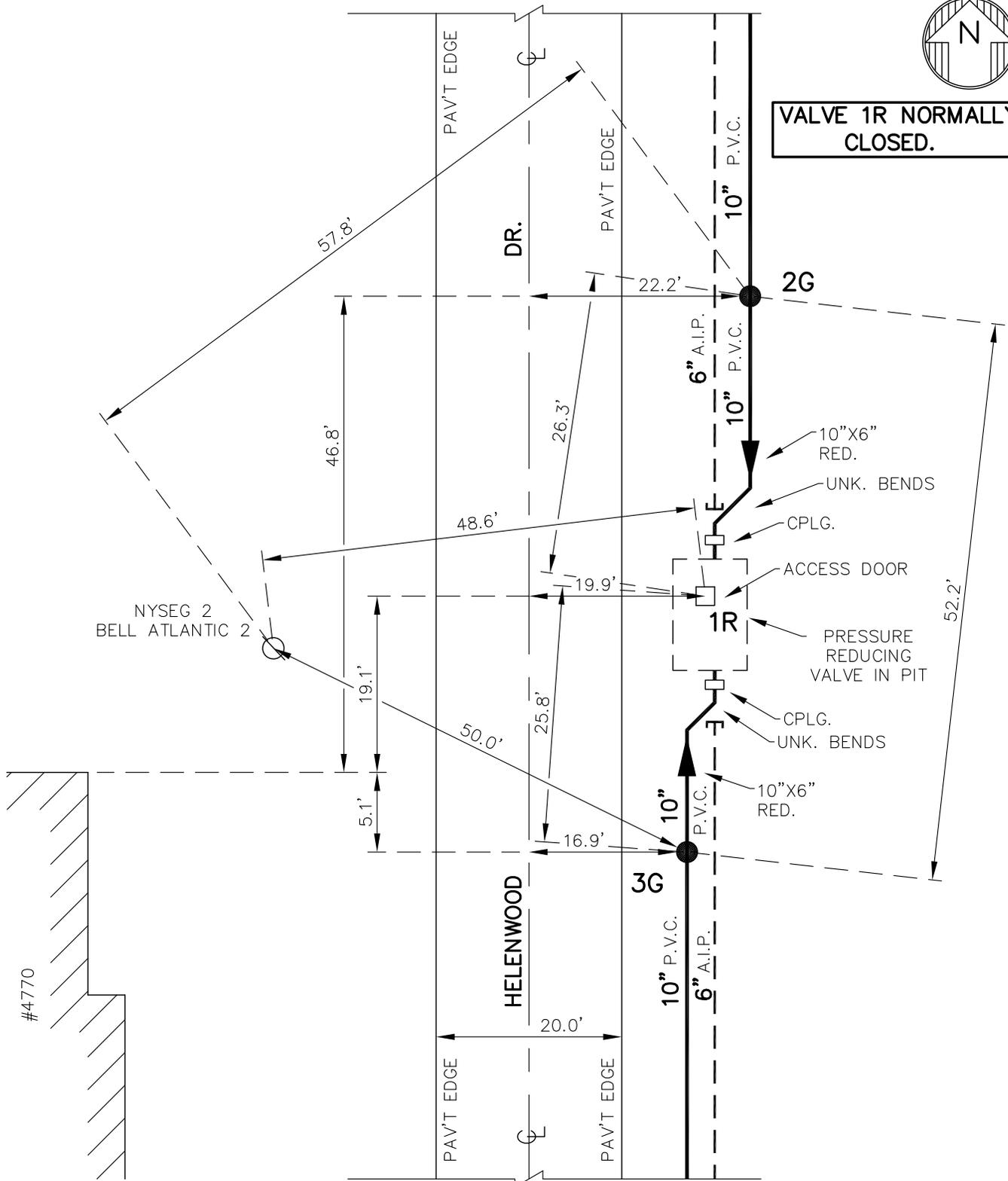
E.C.W.A.

L07-C01A  
 DETAIL SHT. NO.

201700261  
 CURRENT PROJECT NO.



**VALVE 1R NORMALLY CLOSED.**



NOTE: DETAIL DRAWN ON CAD SYSTEM.

BCD-17-04  
 BCD-02-07  
 CLTN-928-9901-P

L07-C01A  
 DETAIL SHT. NO.

**MASTER COPY**

**ERIE COUNTY WATER AUTHORITY  
CONSTRUCTION AUTHORIZATION**

Project No. 202400206  
Budget No. \_\_\_\_\_

Authorization No.: EC 7441  
Date: 8/27/2024  
Inputted By/Date: \_\_\_\_\_

August 2024 Estimate Starting Date  
December 2024 Estimate Complete Date  
     yes      no Retirement Involved  
     X Public Street  
Private Right of Way  
On Authority's Prop  
Tax Districts \_\_\_\_\_  
Name of Grantor of Easement \_\_\_\_\_  
Date of Easement \_\_\_\_\_

**TITLE OF PROJECT:** Lake Shore Rd. E/O  
Hewson Rd. Drain Down Valve.

**CLASS OF MAIN INSTALLATION:**  
     X System Betterment  
     Bldr/Cont/Dev. Agree.  
     Owner Occupant Cont.  
     Special Revenue Cont.

**DETAILED DESCRIPTION AND PURPOSE:**  
Install a drain down valve on 12" main stub along  
Lake Shore Rd. east of Hewson Rd.  
To drain the 48" PCCP main along Lake Shore Rd.  
in the Town of Hamburg.

**ESTIMATE COST**

(1) Total Est. Cost \$ 20,140.11  
(2) \_\_\_\_\_ Meters and Service @ \$ \_\_\_\_\_  
(3) Removal Cost Less Salvage \$ \_\_\_\_\_  
(4) Gross Investment \$ 20,140.11

**DEDUCT**

(5) Const. Advance \$ \_\_\_\_\_  
(6) Service Conn. \$ \_\_\_\_\_  
(7) Refunds \$ \_\_\_\_\_  
(8) Net Auth. Invest. \$ 20,140.11

**BUDGETARY DATA**

(9) Tot. Budget Expnd. \$ \_\_\_\_\_  
(10) This Authorization \$ \_\_\_\_\_  
(11) Pre Approved \$ \_\_\_\_\_  
(12) Tot. Apvl. To Date \$ \_\_\_\_\_  
(13) Bal. Budget Expnd. \$ \_\_\_\_\_

**APPROVALS**

Preparation Michael Stoklosa  
Dir. of Dist. 2/27/2026  
Exec. Engr. Jeanne F. Konaluk 3/4/2026  
Admn. Director \_\_\_\_\_  
Legal Dept. \_\_\_\_\_  
Acct. Dept. \_\_\_\_\_

**ESTIMATED EARNINGS & RETURNS**

**ESTIMATED INCREASE IN REVENUES**

(14) Customers @ \$ \_\_\_\_\_  
\$ \_\_\_\_\_  
(15) Hydrants @ \$ \_\_\_\_\_  
\$ \_\_\_\_\_

**EST. SAVINGS IN OPERATING EXPENSES**

(16) \$ \_\_\_\_\_  
(17) Gross Increase in Earnings \$ \_\_\_\_\_

**REVENUE DEDUCTIONS**

(18) Operating Exp. \_\_\_\_\_ % \$ \_\_\_\_\_  
(19) Depreciation \$ \_\_\_\_\_  
(20) Total Deductions \$ \_\_\_\_\_  
(21) Net Income Loss \$ \_\_\_\_\_  
(22) % Return on Investment \_\_\_\_\_  
(21) divided by 8) \_\_\_\_\_ %

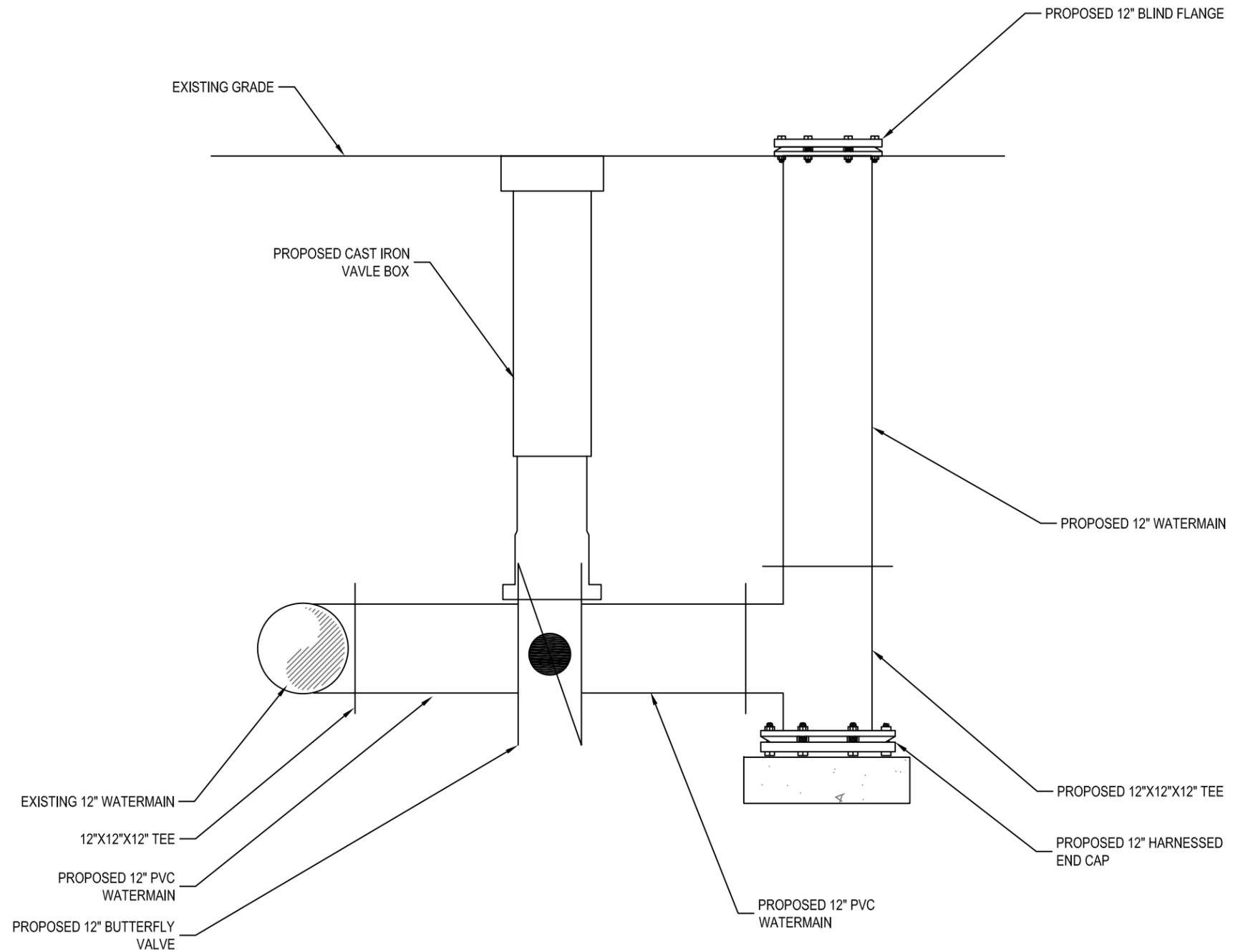
**RESOLUTION APPROVING**

Adopted \_\_\_\_\_  
Item No. \_\_\_\_\_

PROJECT NUMBER: 202400206  
 EC/OWIP NUMBER: 107200-007441  
 PROJECT DISCRIPTION: Dewatering Valve - Hewson and Lakeshore

<i>BID ITEM #</i>	<i>EST. QUANTITY</i>	<i>UNIT</i>	<i>UNIT COST</i>	<i>MEASURED QUANTITY</i>	<i>AMOUNT</i>
1B1	10	LF@	\$100.00	5.00	\$500.00
2A2	1	Ea@	\$4,100.00	1.00	\$4,100.00
3A2	0	Ea@	\$3,210.00	1.00	\$3,210.00
3C2	1	Ea@	\$5,700.00	0.00	\$0.00
5A2	2	Ea@	\$325.00	2.00	\$650.00
6A1	10	LF@	\$2.00	10.00	\$20.00
13F1	15	SY @	\$33.00	25.00	\$825.00
14A1	0	Hrs @	\$550.00	1.00	\$550.00
14B2	1	ALW	\$100,000.00	2,134.47	\$2,134.47
<i>TOTAL:</i>					\$11,989.47





Approved By:

ERIE COUNTY WATER AUTHORITY  
3030 UNION RD.  
CHEEKTOWAGA, NY 14227

Project Name

Name:  
DRAIN DETAIL

Date:  
AUGUST 2024

Scale:  
AS SHOWN

Drawn/Revised By:  
MAB

Sheet

**D-1**

Page: 1 of 1

File Name:  
HEWSON ROAD AND LAKE SHORE ROAD



ALL UTILITIES ARE BASED ON BEST GIVEN INFORMATION AND ARE APPROXIMATE ONLY. SOME UTILITIES MAY NOT BE SHOWN. CONTRACTOR SHALL FIELD VERIFY ALL UTILITIES DURING EXCAVATION BY CONTACTING UFPO PRIOR TO PERFORMING ANY EARTHWORK.

**ERIE COUNTY WATER AUTHORITY  
CONSTRUCTION AUTHORIZATION**

Project No. 202400210  
Budget No. \_\_\_\_\_

Authorization No.: EC 7442  
Date: 9/01/2024  
Inputted By/Date: \_\_\_\_\_

September 2024 Estimate Starting Date  
September 2024 Estimate Complete Date  
yes  no Retirement Involved  
X Public Street  
Private Right of Way  
On Authority's Prop  
Tax Districts \_\_\_\_\_  
Name of Grantor of Easement \_\_\_\_\_  
Date of Easement \_\_\_\_\_

**TITLE OF PROJECT:** North America Dr.  
2" Corp Installation.

**CLASS OF MAIN INSTALLATION:**  
X System Betterment  
Bldr/Cont/Dev. Agree.  
Owner Occupant Cont.  
Special Revenue Cont.

**DETAILED DESCRIPTION AND PURPOSE:**  
Installation of a 2" saddle & corporation stop on the  
existing 3-valve cluster on North America Dr.  
east of Ransier Dr. in the Town of West Seneca.  
Installed to provide an access point to perform  
televised inspection of the 3-valve cluster.

**ESTIMATE COST**

(1) Total Est. Cost \$ 7,039.33  
(2) \_\_\_\_\_ Meters and Service @ \$ \_\_\_\_\_  
(3) Removal Cost Less Salvage \$ \_\_\_\_\_  
(4) Gross Investment \$ 7,039.33

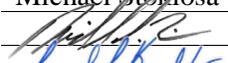
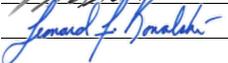
**DEDUCT**

(5) Const. Advance \$ \_\_\_\_\_  
(6) Service Conn. \$ \_\_\_\_\_  
(7) Refunds \$ \_\_\_\_\_  
(8) Net Auth. Invest. \$ 7,039.33

**BUDGETARY DATA**

(9) Tot. Budget Expnd. \$ \_\_\_\_\_  
(10) This Authorization \$ \_\_\_\_\_  
(11) Pre Approved \$ \_\_\_\_\_  
(12) Tot. Apvl. To Date \$ \_\_\_\_\_  
(13) Bal. Budget Expnd. \$ \_\_\_\_\_

**APPROVALS**

Preparation Michael Stoklosa  
Dir. of Dist.  2/27/2026  
Exec. Engr.  3/4/2026  
Admn. Director \_\_\_\_\_  
Legal Dept. \_\_\_\_\_  
Acct. Dept. \_\_\_\_\_

**ESTIMATED EARNINGS & RETURNS**

**ESTIMATED INCREASE IN REVENUES**

(14) \_\_\_\_\_ Customers @ \$ \_\_\_\_\_  
\$ \_\_\_\_\_  
(15) \_\_\_\_\_ Hydrants @ \$ \_\_\_\_\_  
\$ \_\_\_\_\_

**EST. SAVINGS IN OPERATING EXPENSES**

(16) \_\_\_\_\_ \$ \_\_\_\_\_  
(17) Gross Increase in Earnings \$ \_\_\_\_\_

**REVENUE DEDUCTIONS**

(18) Operating Exp. \_\_\_\_\_ % \$ \_\_\_\_\_  
(19) Depreciation \$ \_\_\_\_\_  
(20) Total Deductions \$ \_\_\_\_\_  
(21) Net Income Loss \$ \_\_\_\_\_  
(22) % Return on Investment \_\_\_\_\_  
(21) divided by 8) \_\_\_\_\_ %

**RESOLUTION APPROVING**

Adopted \_\_\_\_\_  
Item No. \_\_\_\_\_

PROJECT NUMBER: 202400210  
EC/OWIP NUMBER: 7441  
PROJECT DISCRIPTION: North America Drive Inspection Tap

<i>BID ITEM #</i>	<i>EST. QUANTITY</i>	<i>UNIT</i>	<i>UNIT COST</i>	<i>MEASURED QUANTITY</i>	<i>AMOUNT</i>
8A1	1800	CY @	\$60.00	14.00	\$840.00
13F1	3200	SY @	\$33.00	4.00	\$132.00
14A1	200	Hrs @	\$550.00	3.00	\$1,650.00
14A3	50	Hrs @	\$450.00	8.00	\$3,600.00
<i>TOTAL:</i>					<b>\$6,222.00</b>





2600-2690

N AMERICA DR

K12F54 1BK12F54 2B  
K12F54 3G

12" Poly-Vinyl Chloride

Install a 2" saddle & corp. stop to provide access point for camera inspection of 3-valve cluster.

2500

**North America Dr., WSTN  
PN: 202400210**

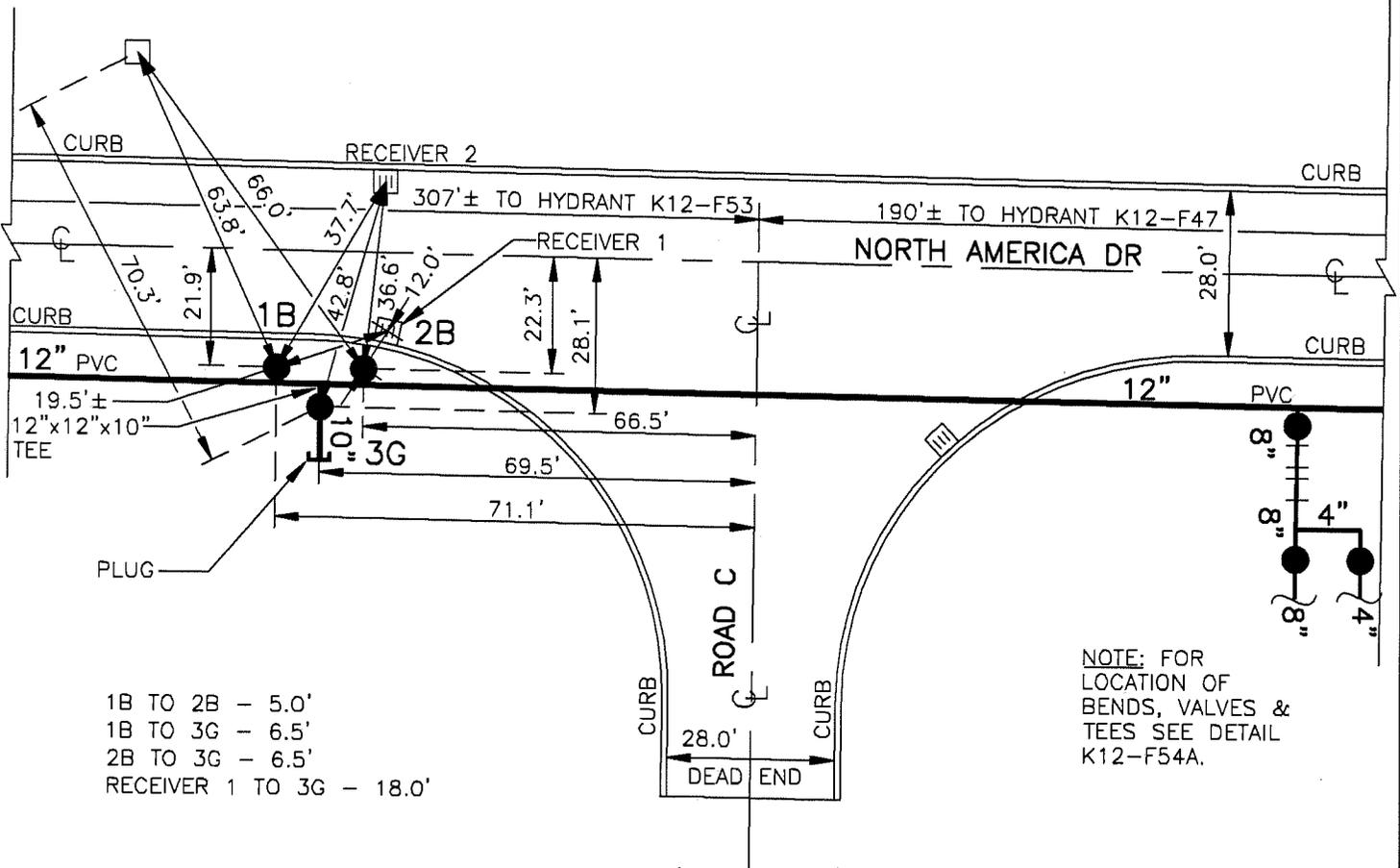


Erie County Water Authority  
Buffalo, New York

BUILDING 2600



NYT BOX 40



- 1B TO 2B - 5.0'
- 1B TO 3G - 6.5'
- 2B TO 3G - 6.5'
- RECEIVER 1 TO 3G - 18.0'

NOTE: FOR LOCATION OF BENDS, VALVES & TEES SEE DETAIL K12-F54A.

**MASTER COPY**

**ERIE COUNTY WATER AUTHORITY  
CONSTRUCTION AUTHORIZATION**

Project No. 202400274  
Budget No. \_\_\_\_\_

Authorization No.: EC 7453  
Date: 10/11/2024  
Inputted By/Date: \_\_\_\_\_

October 2024 Estimate Starting Date  
October 2025 Estimate Complete Date  
yes  no Retirement Involved  
X Public Street  
Private Right of Way  
On Authority's Prop  
Tax Districts \_\_\_\_\_  
Name of Grantor of Easement \_\_\_\_\_  
Date of Easement \_\_\_\_\_

**CLASS OF MAIN INSTALLATION:**

X System Betterment  
Bldr/Cont/Dev. Agree.  
Owner Occupant Cont.  
Special Revenue Cont.

**TITLE OF PROJECT:** \_\_\_\_\_  
Valve shutdown for Contractor at 27 Joanne Ln.  
CHTN

**DETAILED DESCRIPTION AND PURPOSE:**

The Town of Cheektowaga contractor (CMH)  
relocated an existing ECWA waterline that was  
installed through a sanitary manhole located between  
27 & 29 Joanne Ln in CHTN.  
The waterline was relocated outside of the manhole  
by CMH. ECWA supplied the materials, CMH  
provided the labor and equipment to complete the  
work. CMH also completed the restoration at no  
expense to ECWA.

**ESTIMATE COST**

(1) Total Est. Cost \$ 6,903.87  
(2) \_\_\_\_\_ Meters and Service @ \$ \_\_\_\_\_  
(3) Removal Cost Less Salvage \$ \_\_\_\_\_  
(4) Gross Investment \$ 6,903.87

**DEDUCT**

(5) Const. Advance \$ \_\_\_\_\_  
(6) Service Conn. \$ \_\_\_\_\_  
(7) Refunds \$ \_\_\_\_\_  
(8) Net Auth. Invest. \$ 6,903.87

**BUDGETARY DATA**

(9) Tot. Budget Expnd. \$ \_\_\_\_\_  
(10) This Authorization \$ \_\_\_\_\_  
(11) Pre Approved \$ \_\_\_\_\_  
(12) Tot. Apvl. To Date \$ \_\_\_\_\_  
(13) Bal. Budget Expnd. \$ \_\_\_\_\_

**APPROVALS**

Preparation Michael Stoklosa  
Dir. of Dist. 2/27/2026  
Exec. Engr. 3/4/2026  
Admn. Director \_\_\_\_\_  
Legal Dept. \_\_\_\_\_  
Acct. Dept. \_\_\_\_\_

**ESTIMATED EARNINGS & RETURNS**

**ESTIMATED INCREASE IN REVENUES**

(14) Customers @ \$ \_\_\_\_\_  
\$ \_\_\_\_\_  
(15) Hydrants @ \$ \_\_\_\_\_  
\$ \_\_\_\_\_

**EST. SAVINGS IN OPERATING EXPENSES**

(16) \$ \_\_\_\_\_  
(17) Gross Increase in Earnings \$ \_\_\_\_\_

**REVENUE DEDUCTIONS**

(18) Operating Exp. \_\_\_\_\_ % \$ \_\_\_\_\_  
(19) Depreciation \$ \_\_\_\_\_  
(20) Total Deductions \$ \_\_\_\_\_  
(21) Net Income Loss \$ \_\_\_\_\_  
(22) % Return on Investment \_\_\_\_\_  
(21) divided by 8) \_\_\_\_\_ %

**RESOLUTION APPROVING**

Adopted \_\_\_\_\_  
Item No. \_\_\_\_\_



# Material Cost Estimate

**PROJECT NO.:** 202400274

**Prepared By:** M. STOKLOSA  
**Inputted By:** \_\_\_\_\_

**Date:** 12/10/2024  
**Date:** \_\_\_\_\_

**TITLE:** 6" MAIN RELOCATION  
27 JOANNE DR., TOWN OF CHEEKTOWAGA

**Type of Connection:** CPLG.

## MATERIAL LIST

Materials					
Qty.	U/M	Item No.	Description	Cost per Unit	Total Cost per Item
40	LF	12489	6" P.V.C.PIPE	\$15.83	\$633.20
4	EA	14323	6" 45 COMPACT BEND	\$68.40	\$273.60
2	EA	13090	6" C.I. MEGA LUGS	\$39.24	\$78.48
10	EA	13183	6" P.V.C. MEGA LUGS	\$39.24	\$392.40
2	EA	20601	6" HY-MAX COUPLING	\$279.72	\$559.44
12	LF	36007	3/4" ALL THREAD	\$2.07	\$24.84
8	EA	36030	DUCTILE LUGS	\$4.10	\$32.80
TOTAL MATERIAL COST (MAT)					\$1,994.76

CMH Company Inc  
 12704 North Road  
 Alden New York 14004  
 ph 716.937.6307 fax 716.937.6392

**INVOICE**

Invoice No. 24-102  
 Date: 10/30/2024  
 Date Range of Work: 10/17/24

To:  
 Town of Cheektowaga  
 3301 Broadway  
 Cheektowaga, NY 14227

Contract No. 2024-3  
 Location: Relocating ECWA Water Main Out of Sanitary Sewer Manhole

BID ITEM	COST CODE	DESCRIPTION	UNIT PRICE	CMH Overtime TIME	CMH Overtime	CMH TIME	TOTAL
1.00	44.010	TRACTOR AND DUMP TRAILER	\$ 148.00		\$ -		\$ -
2.00	44.020	TANDEM DUMP TRUCK	\$ 135.00	0.50	\$ 101.25		\$ 101.25
3.00	44.030	RUBBER TIRE BACKHOE AND OPERATOR	\$ 110.00		\$ -		\$ -
4.00	44.040	ROAD SAW AND OPERATOR	\$ 145.00		\$ -		\$ -
5.00	44.050	BACKHOE AND OPERATOR (JD-60)	\$ 25.00		\$ -		\$ -
6.00	44.060	BACKHOE AND OPERATOR (JD-160)	\$ 148.00		\$ -		\$ -
7.00	44.070	BACKHOE AND OPERATOR (JD-290)	\$ 140.00		\$ -		\$ -
8.00	44.080	BACKHOE AND OPERATOR (JD-380)	\$ 95.00		\$ -		\$ -
9.00	44.090	BULLDOZER (JD-550)	\$ 110.00		\$ -		\$ -
10.00	44.100	BULLDOZER (JD-750)	\$ 140.00		\$ -		\$ -
11.00	44.110	FRONT END LOADER	\$ 180.00		\$ -		\$ -
12.00	44.120	1.5 TON BLACKTOP ROLLER	\$ 115.00		\$ -		\$ -
13.00	44.130	BACKHOE WITH HAMMER	\$ 135.00		\$ -		\$ -
14.00	44.140	CAT SMOOTH DRUM DIRT-ROLLER	\$ 110.00		\$ -		\$ -
15.00	44.150	SUPERINTENDENT	\$ 105.00		\$ -		\$ -
16.00	44.160	SKILLED LABORER	\$ 90.00		\$ -		\$ -
17.00	44.170	SKILLED CARPENTER	\$ 150.00		\$ -		\$ -
18.00	44.180	EQUIPMENT TRUCK	\$ 19.00		\$ -		\$ -
19.00	44.190	ADJUSTABLE TRENCH SHIELD (6'X8')	\$ 3.00		\$ -		\$ -
20.00	44.200	ADJUSTABLE TRENCH SHIELD (8'X16')	\$ 10.00		\$ -		\$ -
21.00	44.210	ADJUSTABLE TRENCH SHIELD (10'X20')	\$ 20.00		\$ -		\$ -
22.00	44.220	AIR COMPRESSOR WITH HAMMER	\$ 10.00		\$ -		\$ -
23.00	44.230	ASPHALT PAVER (CAT AP550F)	\$ 190.00		\$ -		\$ -
24.00	44.240	ASPHALT PAVER (CAT AP255E)	NA				
25.00	44.250	ROAD WIDENER (WEILER W330)	\$ 185.00		\$ -		\$ -
26.00	44.260	10 TON ROLLER	\$ 85.00		\$ -		\$ -
27.00	44.270	4 TON ROLLER	\$ 115.00		\$ -		\$ -
28.00	44.280	BACKHOE AND OPERATOR W/VIBRATORY PLATE COMPACTOR	\$ 50.00		\$ -		\$ -
29.00	44.290	LATERAL INSPECTION CAMERA	\$ 105.00		\$ -		\$ -
30.00	44.300	SEWER LINE REPAIR CREW (INCLUDES: DUMP TRUCK, BACKHOE, 2 LABORERS, 1 EQUIP. TRUCK)	\$ 444.00	0.50	\$ 333.00	8.00	\$ 3,885.00
31.00	44.310	NEW SEWER /WATER LINE INSTALL CREW (INCLUDES: DUMP TRUCK, BACKHOE, LOADER, 2 LABORERS, 1 EQUIP. TRUCK)	\$ 662.00		\$ -		\$ -
32.00	44.320	NEW SEWER LINE INSTALL CREW (INC: TWO DUMP TRUCK, BACKHOE, LOADER, 2 LAB, 1 EQUIP. TRUCK)	\$ 789.00		\$ -		\$ -
<b>TOTAL</b>					<b>\$ 434.25</b>		<b>\$ 3,986.25</b>

Thank You for your business! If you have any questions concerning this invoice, please contact us.  
 Mark Metz, President, CMH Co. Inc. [CMH14004@GMAIL.COM](mailto:CMH14004@GMAIL.COM)

*2023 Sanitary*  11/13/24

**TOWN OF CHEEKTOWAGA ENGINEERING DEPARTMENT - DAILY RECORD OF WORK AUTHORIZED**

CONTRACT NO.:		LOCATION:			CONTRACTOR			DATE:	
2023-10		29 Joanne			CMH COMPANY INC			10/17/2024	
LABOR				EQUIPMENT					
NAME	LABOR CLASSIFICATION	HOURS TOTAL	COST CODE	BID ITEM	DESCRIPTION	STR. TIME	OVER TIME	UNIT	
Mark Siudzinski	Operator	8.5	44.010	1	TRACTOR AND DUMP TRUCK			HR	
Bill Heist	Labor	8.5	44.020	2	DUMP TRUCK		0.5	HR	
Jake Harris	Labor	8.5	44.030	3	RUBBER TIRE BACKHOE AND OPERATOR			HR	
Scott Coppola	Driver	9	44.040	4	ROAD SAW AND OPERATOR			HR	
			44.050	5	BACKHOE AND OPERATOR (JD-60)			HR	
			44.060	6	BACKHOE AND OPERATOR (JD-160)			HR	
			44.070	7	BACKHOE AND OPERATOR (JD-290)			HR	
			44.080	8	BACKHOE AND OPERATOR (JD-380)			HR	
			44.090	9	BULLDOZER (JD-550)			HR	
			44.100	10	BULLDOZER (JD-750)			HR	
			44.110	11	FRONT END WHEEL LOADER			HR	
			44.120	12	1.5 TON BLACKTOP ROLLER			HR	
			44.130	13	CRAWLER BACKHOE W/HAMMER			HR	
			44.140	14	CAT SMOOTH DRUM DIRT ROLLER			HR	
			44.150	15	SUPERINTENDENT			HR	
			44.160	16	SKILLED LABORER			HR	
			44.170	17	SKILLED CARPENTER			HR	
			44.180	18	EQUIPMENT TRUCK			HR	
			44.190	19	ADJUSTABLE TRENCH SHIELD (6'X8')			HR	
			44.200	20	ADJUSTABLE TRENCH SHIELD (8'X16')			HR	
			44.210	21	ADJUSTABLE TRENCH SHIELD (10'X20')			HR	
			44.220	22	AIR COMPRESSOR WITH HAMMER			HR	
			44.230	23	ASPHALT PAVER (CAT AP500F)			HR	
			44.240	24	ASPHALT PAVER (CAT AP255E)			HR	
			44.250	25	ROAD WIDENER (WEILER W330)			HR	
			44.260	26	10 TON ROLLER			HR	
			44.270	27	4 TON ROLLER			HR	
			44.280	28	BACKHOE AND OPERATOR W/VIBRATORY PLATE COMPACTOR			HR	
			44.290	29	SEWER LATERAL INSPECTION CAMERA			HR	
			44.300	30	SEWER LINE REPAIR CREW (INCLUDES: DUMP TRUCK, BACKHOE, 2 LABORERS, 1 EQUIP. TRUCK)	8	0.5	HR	
			44.310	31	NEW SEWER /WATER LINE INSTALL CREW (INCLUDES: DUMP TRUCK, BACKHOE, LOADER, 2 LABORERS, 1 EQUIP. TRUCK)			HR	
			44.320	32	NEW SEWER LINE INSTALL CREW (INC: TWO DUMP TRUCK, BACKHOE, LOADER, 2 LAB, 1 EQUIP. TRUCK)			HR	

Statement of work accomplished:

Relocate ECWA water main out of sanitary sewer manhole and patch manhole

INSPECTOR SIGNATURE

Marty DiPizio

FOREMAN SIGNATURE

**ERIE COUNTY WATER AUTHORITY  
CONSTRUCTION AUTHORIZATION**

Project No. 202500031  
Budget No. \_\_\_\_\_

Authorization No.: EC 7475  
Date: 2/4/2025  
Inputted By/Date: \_\_\_\_\_

February 2025 Estimate Starting Date  
March 2025 Estimate Complete Date  
yes  no Retirement Involved  
X Public Street  
Private Right of Way  
On Authority's Prop  
Tax Districts \_\_\_\_\_  
Name of Grantor of Easement \_\_\_\_\_  
Date of Easement \_\_\_\_\_

**TITLE OF PROJECT:** \_\_\_\_\_  
Valve Installation Mckinley Pkwy & Boston State R Rd.

**CLASS OF MAIN INSTALLATION:**  
X System Betterment  
Bldr/Cont/Dev. Agree.  
Owner Occupant Cont.  
Special Revenue Cont.

**DETAILED DESCRIPTION AND PURPOSE:**  
Installation of a 3-valve cluster at Mckinley Pkwy. and Boston State Rd. (Replacing 2 existing valves) and installation of a third valve at the Cottages (6385 Boston State Rd.) to make a 3-valve cluster. To reduce shutdown limits when working on Mckinley Pkwy water main.

**ESTIMATE COST**

(1) Total Est. Cost \$ 35,090.83  
(2) \_\_\_\_\_ Meters and Service @ \$ \_\_\_\_\_  
(3) Removal Cost Less Salvage \$ \_\_\_\_\_  
(4) Gross Investment \$ 35,090.83

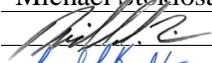
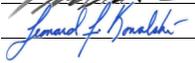
**DEDUCT**

(5) Const. Advance \$ \_\_\_\_\_  
(6) Service Conn. \$ \_\_\_\_\_  
(7) Refunds \$ \_\_\_\_\_  
(8) Net Auth. Invest. \$ 35,090.83

**BUDGETARY DATA**

(9) Tot. Budget Expnd. \$ \_\_\_\_\_  
(10) This Authorization \$ \_\_\_\_\_  
(11) Pre Approved \$ \_\_\_\_\_  
(12) Tot. Apvl. To Date \$ \_\_\_\_\_  
(13) Bal. Budget Expnd. \$ \_\_\_\_\_

**APPROVALS**

Preparation Michael Stoklosa  
Dir. of Dist.  2/27/2026  
Exec. Engr.  3/4/2026  
Admn. Director \_\_\_\_\_  
Legal Dept. \_\_\_\_\_  
Acct. Dept. \_\_\_\_\_

**ESTIMATED EARNINGS & RETURNS**

**ESTIMATED INCREASE IN REVENUES**

(14) Customers @ \$ \_\_\_\_\_  
\$ \_\_\_\_\_  
(15) Hydrants @ \$ \_\_\_\_\_  
\$ \_\_\_\_\_

**EST. SAVINGS IN OPERATING EXPENSES**

(16) \$ \_\_\_\_\_  
(17) Gross Increase in Earnings \$ \_\_\_\_\_

**REVENUE DEDUCTIONS**

(18) Operating Exp. \_\_\_\_\_ % \$ \_\_\_\_\_  
(19) Depreciation \$ \_\_\_\_\_  
(20) Total Deductions \$ \_\_\_\_\_  
(21) Net Income Loss \$ \_\_\_\_\_  
(22) % Return on Investment \_\_\_\_\_  
(21) divided by 8) \_\_\_\_\_ %

**RESOLUTION APPROVING**

Adopted \_\_\_\_\_  
Item No. \_\_\_\_\_

PROJECT NUMBER: 202500031  
 EC/OWIP NUMBER: 107200-007475  
 PROJECT DISCRIPTION: McKinley Ave and Boston State Rd. Valve Installations

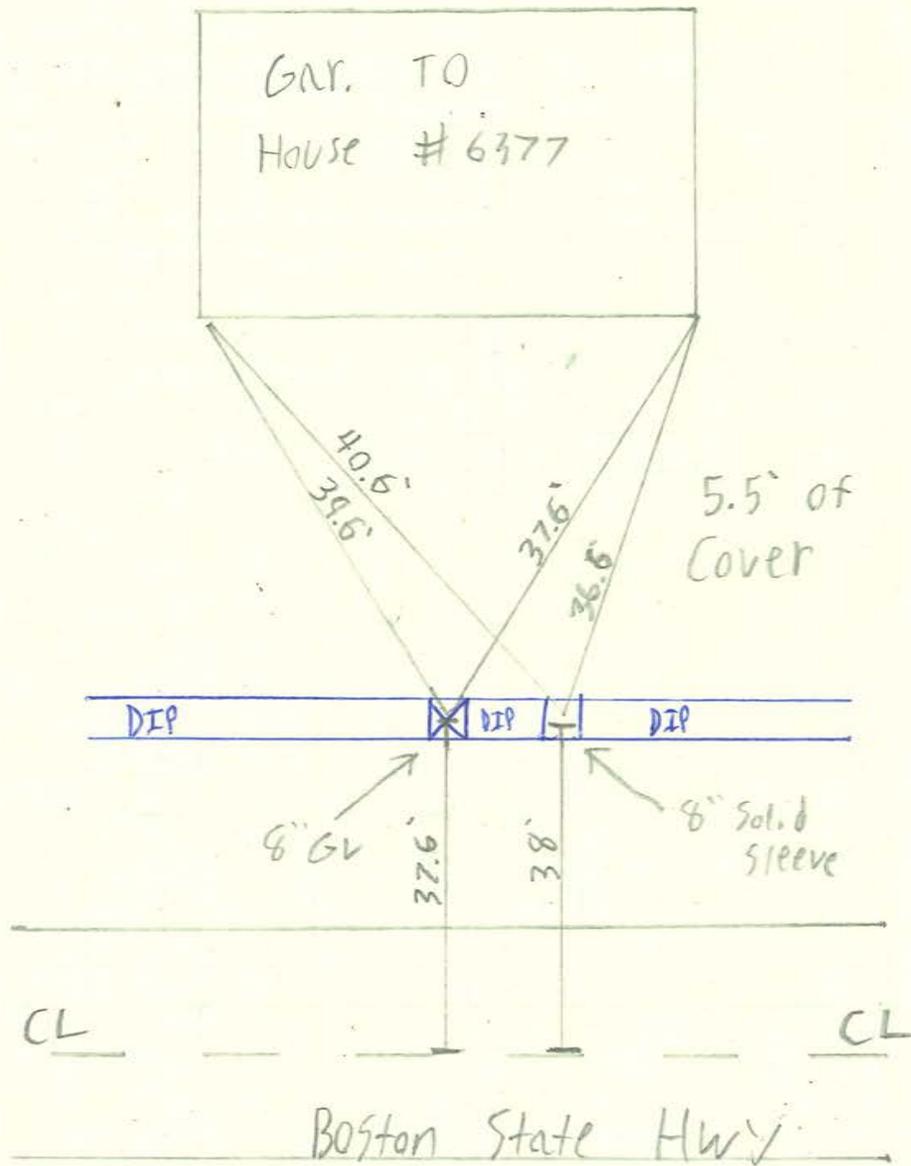
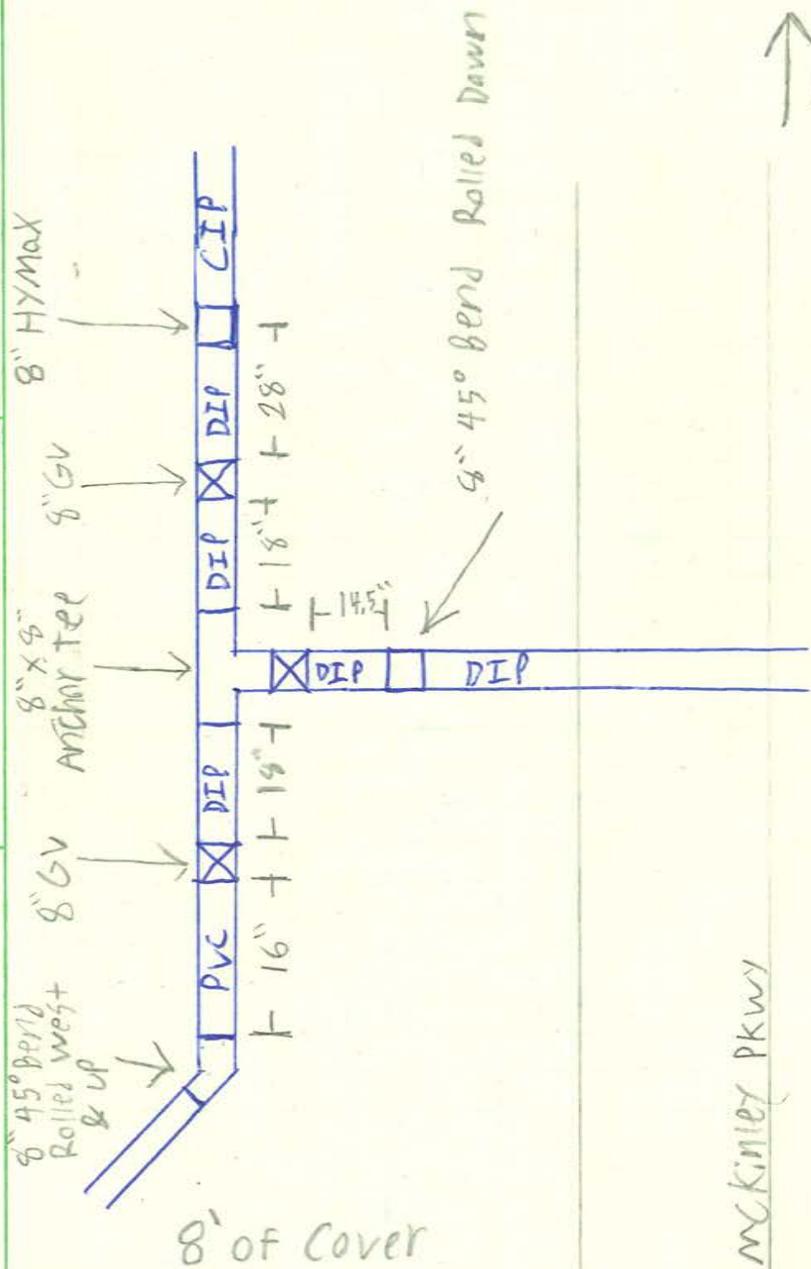
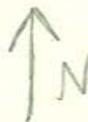
<i>BID ITEM #</i>	<i>EST. QUANTITY</i>	<i>UNIT</i>	<i>UNIT COST</i>	<i>MEASURED QUANTITY</i>	<i>AMOUNT</i>
1A1	3	LF@	\$85.00	3.00	\$255.00
1A2	6.5	LF@	\$105.00	6.50	\$682.50
2A1	1	Ea@	\$3,750.00	1.00	\$3,750.00
3C1	1	Ea@	\$5,700.00	1.00	\$5,700.00
5A1	4	Ea@	\$270.00	4.00	\$1,080.00
7B1	2	Ea@	\$700.00	2.00	\$1,400.00
8A1	10	CY@	\$60.00	10.00	\$600.00
13F1	80	SY @	\$33.00	80.00	\$2,640.00
14A1	5	Hrs@	\$550.00	5.00	\$2,750.00
14B1	0.0047	ALW	\$150,000.00	0.0047	\$699.87
14B2	0.0106	ALW	\$100,000.00	0.0106	\$1,063.03
<i>TOTAL:</i>					<b>\$20,620.40</b>



2/9/2025  
McKinley Pkwy & Boston State Rd

The Cottages

-202500031  
HATN-586-2501



**ERIE COUNTY WATER AUTHORITY  
CONSTRUCTION AUTHORIZATION**

Project No. 202400112  
Budget No. \_\_\_\_\_

Authorization No.: EC 7476  
Date: 12/20/2024  
Inputted By/Date: \_\_\_\_\_

June 2024 Estimate Starting Date  
December 2024 Estimate Complete Date  
yes X no Retirement Involved  
X Public Street  
Private Right of Way  
On Authority's Prop  
Tax Districts \_\_\_\_\_  
Name of Grantor of Easement \_\_\_\_\_  
Date of Easement \_\_\_\_\_

**TITLE OF PROJECT:** \_\_\_\_\_  
Valve Installation Sheridan Dr. at Harris Hill Rd.  
Rd. \_\_\_\_\_

**DETAILED DESCRIPTION AND PURPOSE:**  
PRV installation. Install 3 valves, tees, bends to  
connect to PRV pit. Cerrone dug job.  
See CityWorks Order # 152367.

**CLASS OF MAIN INSTALLATION:**  
X System Betterment  
Bldr/Cont/Dev. Agree.  
Owner Occupant Cont.  
Special Revenue Cont.

**ESTIMATE COST**

(1) Total Est. Cost \$ 42,148.73  
(2) \_\_\_\_\_ Meters and Service @ \$ \_\_\_\_\_  
(3) Removal Cost Less Salvage \$ \_\_\_\_\_  
(4) Gross Investment \$ 42,148.73

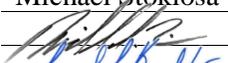
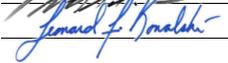
**DEDUCT**

(5) Const. Advance \$ \_\_\_\_\_  
(6) Service Conn. \$ \_\_\_\_\_  
(7) Refunds \$ \_\_\_\_\_  
(8) Net Auth. Invest. \$ 42,148.73

**BUDGETARY DATA**

(9) Tot. Budget Expnd. \$ \_\_\_\_\_  
(10) This Authorization \$ \_\_\_\_\_  
(11) Pre Approved \$ \_\_\_\_\_  
(12) Tot. Apvl. To Date \$ \_\_\_\_\_  
(13) Bal. Budget Expnd. \$ \_\_\_\_\_

**APPROVALS**

Preparation Michael Stoklosa  
Dir. of Dist.  2/27/2026  
Exec. Engr.  3/4/2026  
Admn. Director \_\_\_\_\_  
Legal Dept. \_\_\_\_\_  
Acct. Dept. \_\_\_\_\_

**ESTIMATED EARNINGS & RETURNS**

**ESTIMATED INCREASE IN REVENUES**

(14) Customers @ \$ \_\_\_\_\_  
\$ \_\_\_\_\_  
(15) Hydrants @ \$ \_\_\_\_\_  
\$ \_\_\_\_\_

**EST. SAVINGS IN OPERATING EXPENSES**

(16) \$ \_\_\_\_\_  
(17) Gross Increase in Earnings \$ \_\_\_\_\_

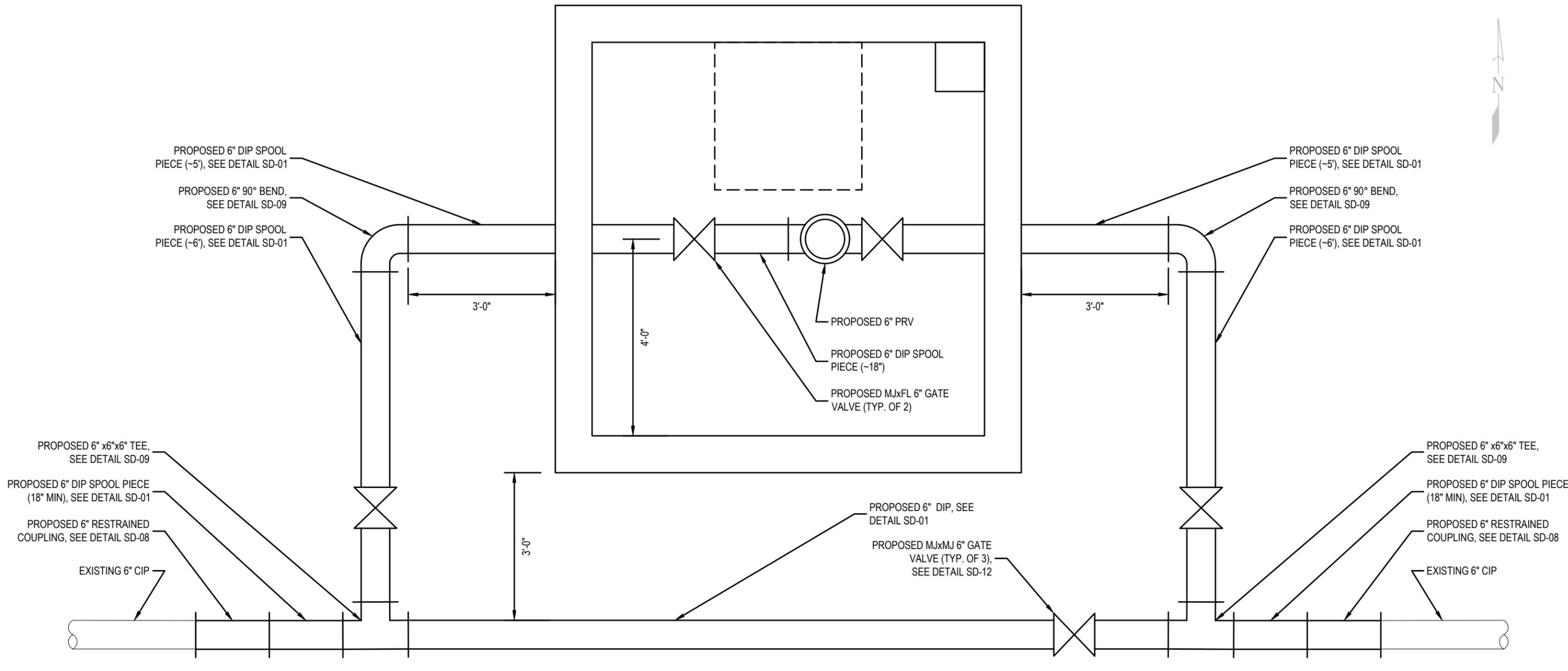
**REVENUE DEDUCTIONS**

(18) Operating Exp. \_\_\_\_\_ % \$ \_\_\_\_\_  
(19) Depreciation \$ \_\_\_\_\_  
(20) Total Deductions \$ \_\_\_\_\_  
(21) Net Income Loss \$ \_\_\_\_\_  
(22) % Return on Investment \_\_\_\_\_  
(21) divided by 8) \_\_\_\_\_ %

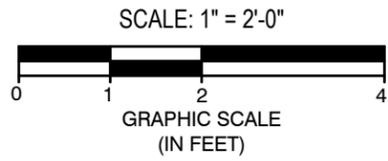
**RESOLUTION APPROVING**

Adopted \_\_\_\_\_  
Item No. \_\_\_\_\_





**PRV CHAMBER**



Approved By:



ERIE COUNTY WATER AUTHORITY  
3030 UNION RD.  
CHEEKTOWAGA, NY 14227

Project Name

SHERIDAN DRIVE  
PRESSURE ZONE TRANSFER  
WATER SYSTEM IMPROVEMENTS  
ECWA PN202400112

TOWN OF CLARENCE  
ERIE COUNTY - NEW YORK

Name:  
PRV CHAMBER

Date:  
NOVEMBER 2024

Scale:  
AS SHOWN

Drawn/Revised By:  
WWW

Sheet

**W-1**

Page: 1 of 1

File Name:  
202400112 - SHERIDAN DRIVE  
PRESSURE ZONE TRANSFER DESIGN



ALL UTILITIES ARE BASED ON BEST GIVEN INFORMATION AND ARE APPROXIMATE ONLY. SOME UTILITIES MAY NOT BE SHOWN. CONTRACTOR SHALL FIELD VERIFY ALL UTILITIES DURING EXCAVATION BY CONTACTING UFPO PRIOR TO PERFORMING ANY EARTHWORK.



ERIE COUNTY  
WATER AUTHORITY  
BUFFALO, NEW YORK

REVISED DR. R.D.C.

DATE: 10/9/2019

FIELD

REVISED DR.

DATE:

OFFICE

TOWN OF CLARENCE

E.C.W.A.

L07-C01A

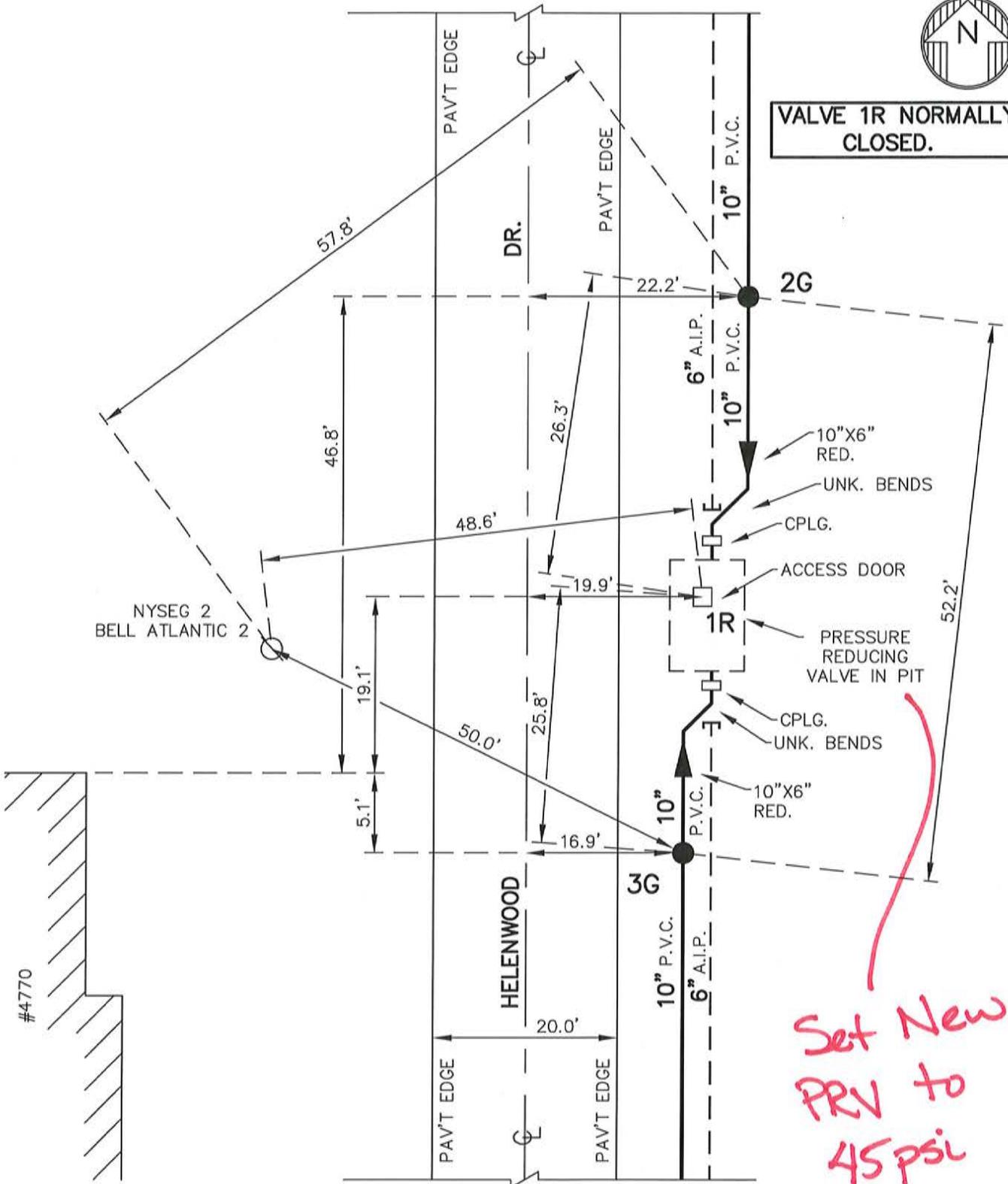
DETAIL SHT. NO.

201700261

CURRENT PROJECT NO.



VALVE 1R NORMALLY CLOSED.



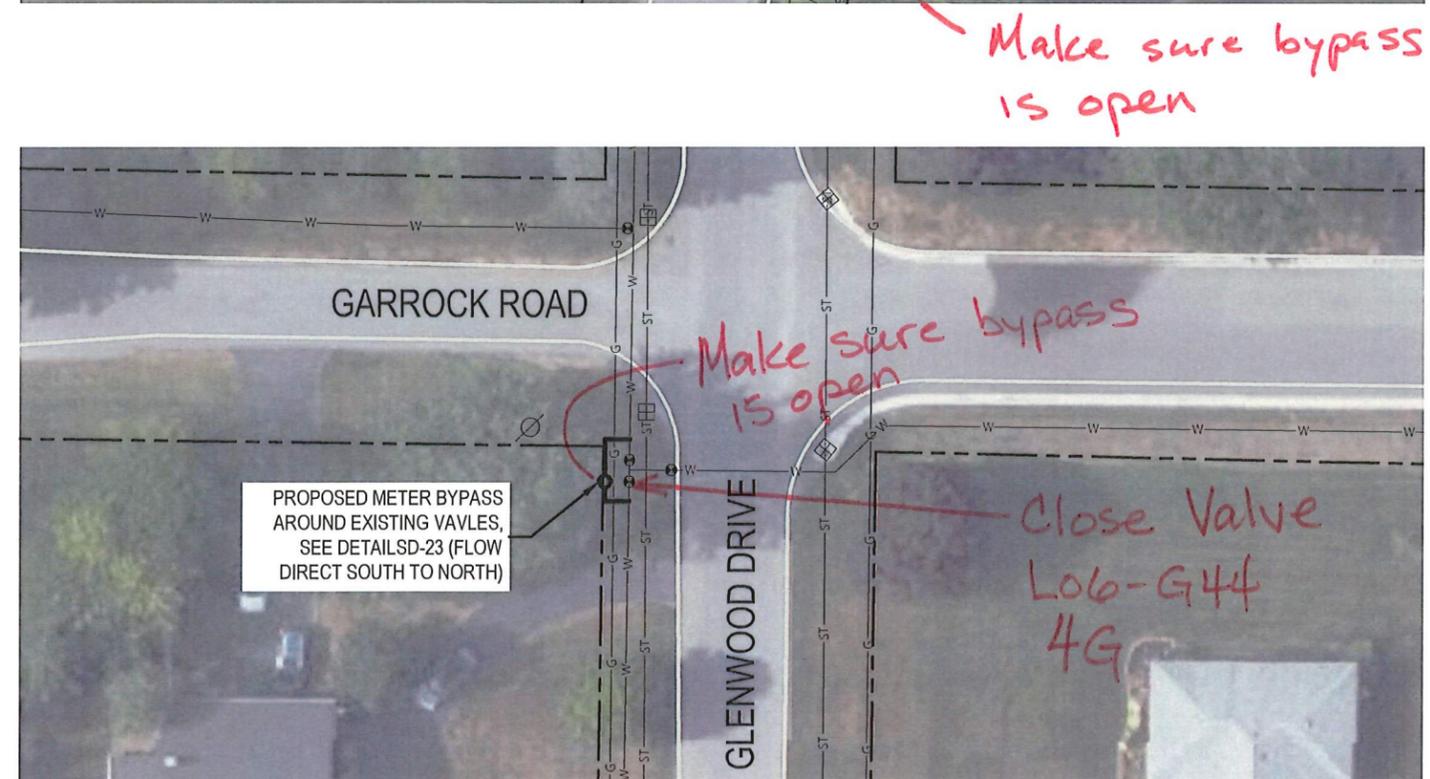
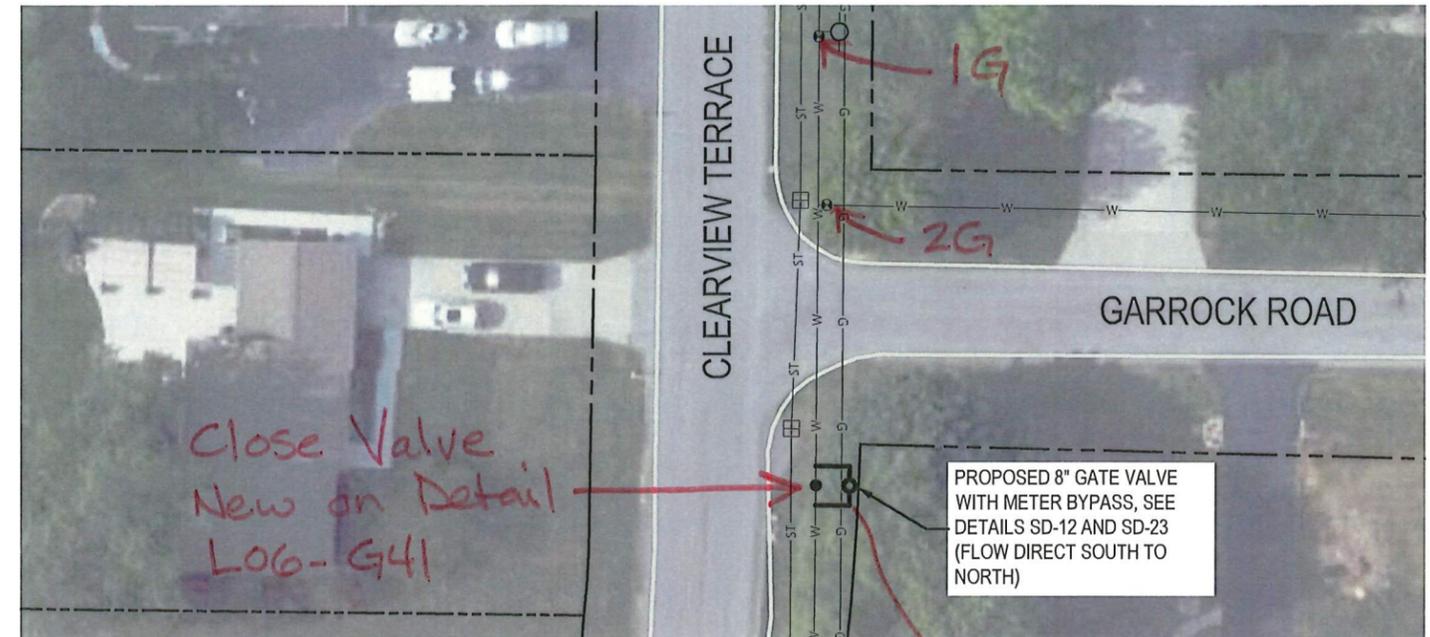
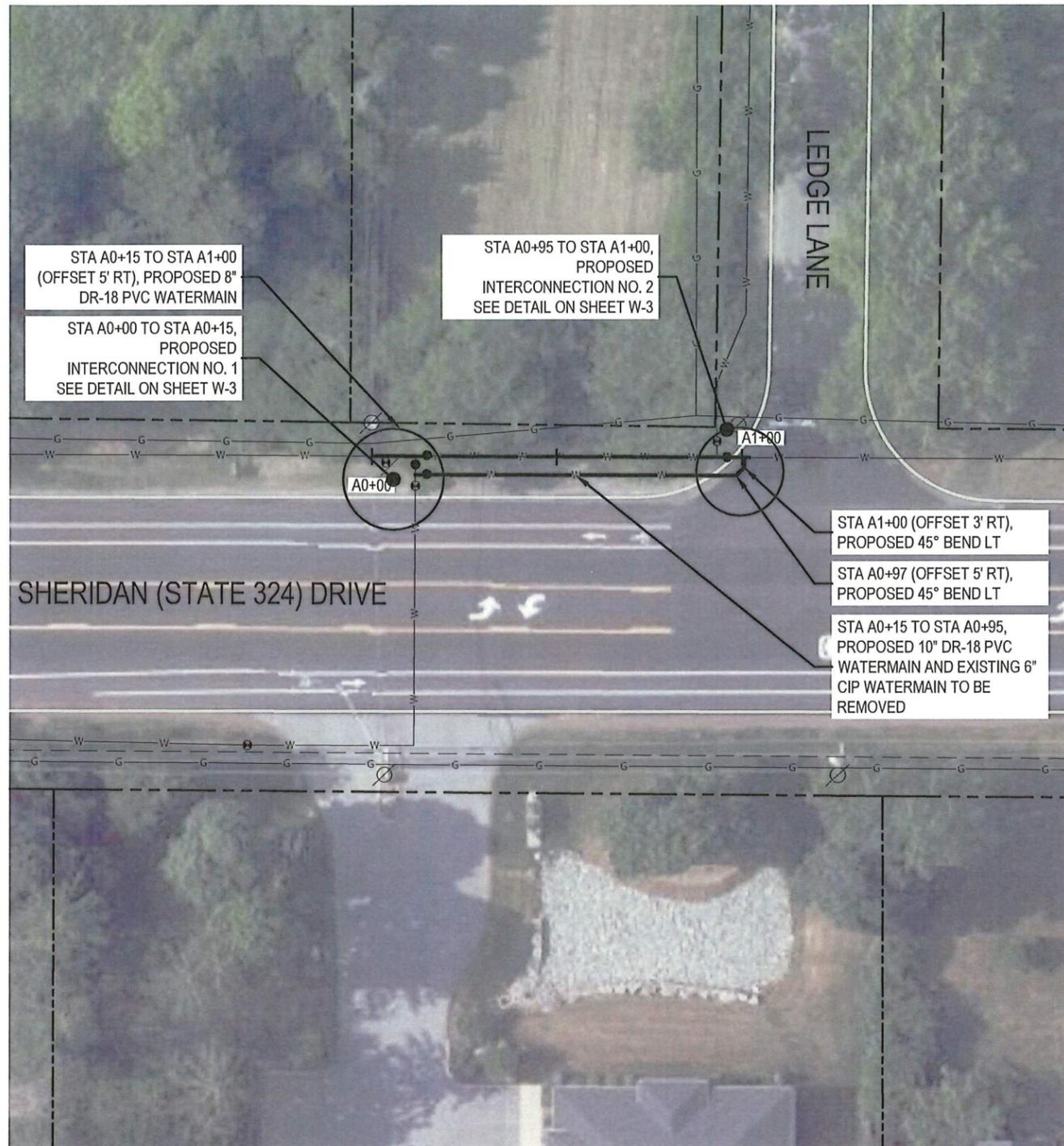
Set New  
PRV to  
45 psi

NOTE: DETAIL DRAWN ON CAD SYSTEM.

BCD-17-04  
BCD-02-07  
CLTN-928-9901-P

L07-C01A  
DETAIL SHT. NO.

MASTER COPY



SCALE: 1" = 40'-0"



GRAPHIC SCALE (IN FEET)

Approved By:



ERIE COUNTY WATER AUTHORITY  
3030 UNION RD.  
CHEEKTOWAGA, NY 14227

Project Name

SHERIDAN DRIVE  
PRESSURE ZONE TRANSFER  
WATER SYSTEM IMPROVEMENTS  
ECWA PN202400112

TOWN OF CLARENCE  
ERIE COUNTY - NEW YORK

Name:

PLAN

Date:

AUGUST 2024

Scale:

AS SHOWN

Drawn/Revised By:

MAB

Sheet

W-1

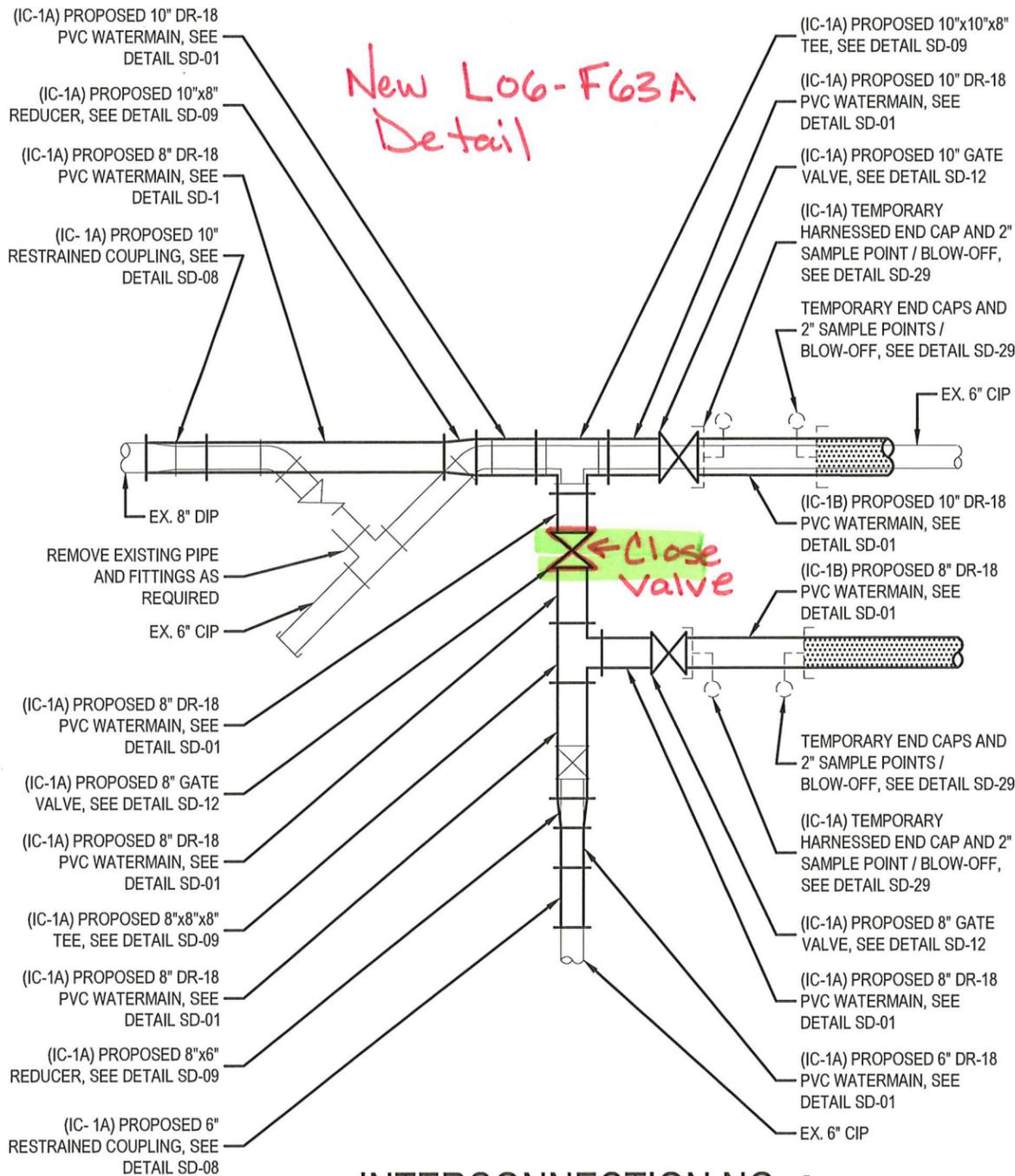
Page: 2 of 9

File Name:

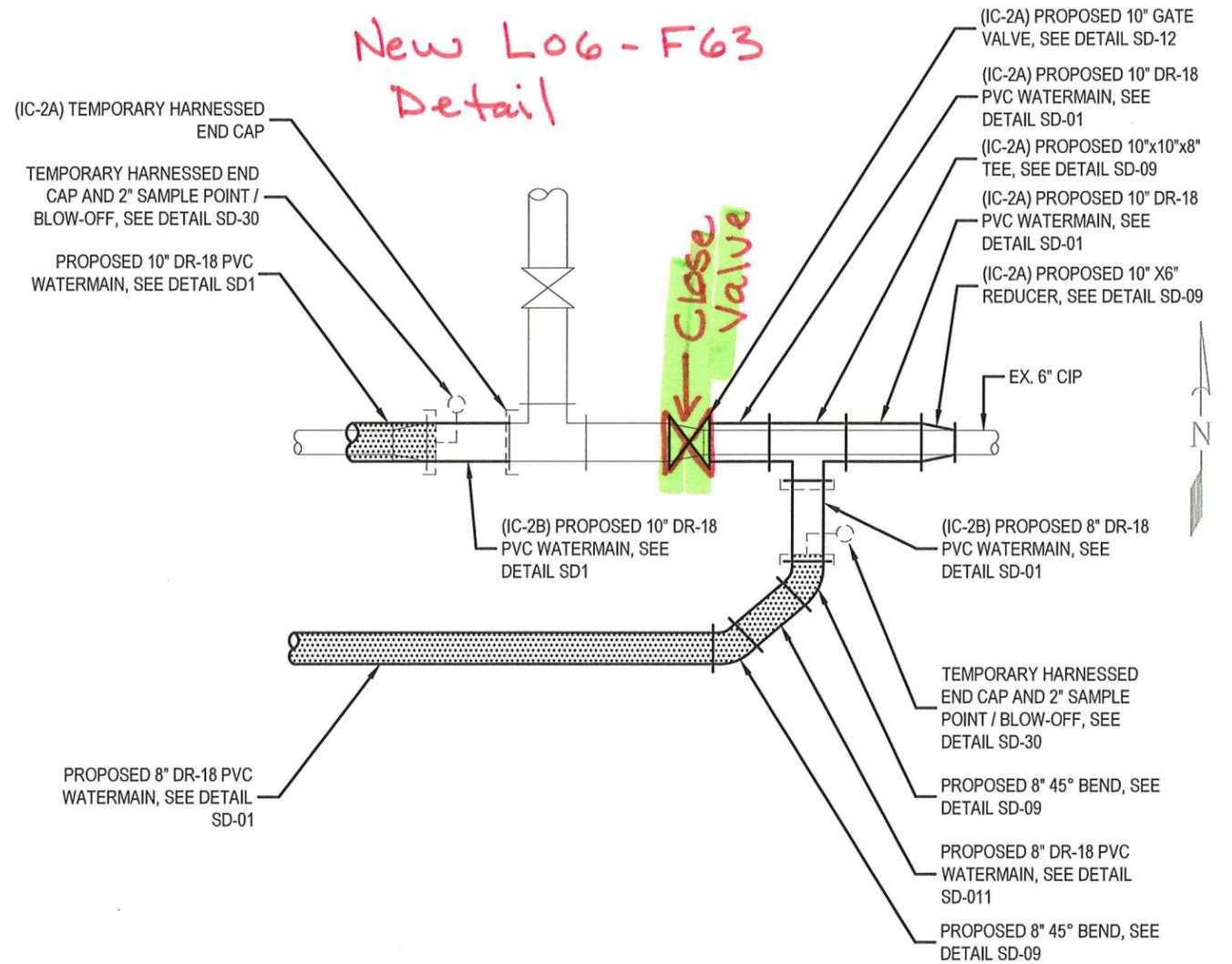
202400112 - SHERIDAN DRIVE  
PRESSURE ZONE TRANSFER DESIGN



ALL UTILITIES ARE BASED ON BEST GIVEN INFORMATION AND ARE APPROXIMATE ONLY. SOME UTILITIES MAY NOT BE SHOWN. CONTRACTOR SHALL FIELD VERIFY ALL UTILITIES DURING EXCAVATION BY CONTACTING UFPO PRIOR TO PERFORMING ANY EARTHWORK.



**INTERCONNECTION NO. 1**



**INTERCONNECTION NO. 2**

..... PRESSURE TEST AND DISINFECTION LIMITS

SCALE: 1" = 4'-0"



GRAPHIC SCALE (IN FEET)

Approved By:



ERIE COUNTY WATER AUTHORITY  
3030 UNION RD.  
CHEEKTOWAGA, NY 14227

Project Name

SHERIDAN DRIVE  
PRESSURE ZONE TRANSFER  
WATER SYSTEM IMPROVEMENTS  
ECWA PN202400112

TOWN OF CLARENCE  
ERIE COUNTY - NEW YORK

Name:  
INTERCONNECTIONS

Date:  
AUGUST 2024

Scale:  
AS SHOWN

Drawn/Revised By:  
MAB

Sheet

**W-3**

Page: 4 of 9

File Name:  
202400112 - SHERIDAN DRIVE  
PRESSURE ZONE TRANSFER DESIGN



ALL UTILITIES ARE BASED ON BEST GIVEN INFORMATION AND ARE APPROXIMATE ONLY. SOME UTILITIES MAY NOT BE SHOWN. CONTRACTOR SHALL FIELD VERIFY ALL UTILITIES DURING EXCAVATION BY CONTACTING UFPO PRIOR TO PERFORMING ANY EARTHWORK.

**ERIE COUNTY WATER AUTHORITY  
CONSTRUCTION AUTHORIZATION**

Project No. 202300201  
Budget No. \_\_\_\_\_

Authorization No.: EC 7506  
Date: 6/13/2025  
Inputted By/Date: \_\_\_\_\_

September 2023 Estimate Starting Date  
August 2025 Estimate Complete Date  
yes  no Retirement Involved  
X Public Street  
Private Right of Way  
On Authority's Prop  
Tax Districts \_\_\_\_\_  
Name of Grantor of Easement \_\_\_\_\_  
Date of Easement \_\_\_\_\_

**TITLE OF PROJECT:** \_\_\_\_\_  
Gerber Pkwy. PRV Pit Installation.

**CLASS OF MAIN INSTALLATION:**  
X System Betterment  
Bldr/Cont/Dev. Agree.  
Owner Occupant Cont.  
Special Revenue Cont.

**DETAILED DESCRIPTION AND PURPOSE:**  
Installation of a PRV pit at 5058 Abbott Rd. and the corner of Gerber Pkwy.  
The new PRV will assist in providing better service pressure to customers in this general area.

**ESTIMATE COST**

(1) Total Est. Cost \$ 96,324.37  
(2) \_\_\_\_\_ Meters and Service @ \$ \_\_\_\_\_  
(3) Removal Cost Less Salvage \$ \_\_\_\_\_  
(4) Gross Investment \$ 96,324.37

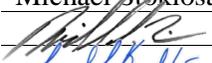
**DEDUCT**

(5) Const. Advance \$ \_\_\_\_\_  
(6) Service Conn. \$ \_\_\_\_\_  
(7) Refunds \$ \_\_\_\_\_  
(8) Net Auth. Invest. \$ 96,324.37

**BUDGETARY DATA**

(9) Tot. Budget Expnd. \$ \_\_\_\_\_  
(10) This Authorization \$ \_\_\_\_\_  
(11) Pre Approved \$ \_\_\_\_\_  
(12) Tot. Apvl. To Date \$ \_\_\_\_\_  
(13) Bal. Budget Expnd. \$ \_\_\_\_\_

**APPROVALS**

Preparation Michael Stoklosa  
Dir. of Dist.  2/27/2026  
Exec. Engr.  3/4/2026  
Admn. Director \_\_\_\_\_  
Legal Dept. \_\_\_\_\_  
Acct. Dept. \_\_\_\_\_

**ESTIMATED EARNINGS & RETURNS**

**ESTIMATED INCREASE IN REVENUES**

(14) Customers @ \$ \_\_\_\_\_  
\$ \_\_\_\_\_  
(15) Hydrants @ \$ \_\_\_\_\_  
\$ \_\_\_\_\_

**EST. SAVINGS IN OPERATING EXPENSES**

(16) \$ \_\_\_\_\_  
(17) Gross Increase in Earnings \$ \_\_\_\_\_

**REVENUE DEDUCTIONS**

(18) Operating Exp. \_\_\_\_\_ % \$ \_\_\_\_\_  
(19) Depreciation \$ \_\_\_\_\_  
(20) Total Deductions \$ \_\_\_\_\_  
(21) Net Income Loss \$ \_\_\_\_\_  
(22) % Return on Investment \_\_\_\_\_  
(21) divided by 8) \_\_\_\_\_ %

**RESOLUTION APPROVING**

Adopted \_\_\_\_\_  
Item No. \_\_\_\_\_

PROJECT NUMBER: 202300201  
 EC/OWIP NUMBER: 107200-7506  
 PROJECT DISCRIPTION: Gerber Drive PRV Installation

<i>BID ITEM #</i>	<i>EST. QUANTITY</i>	<i>UNIT</i>	<i>UNIT COST</i>	<i>MEASURED QUANTITY</i>	<i>AMOUNT</i>
1A1	40	LF	\$95.00	32	\$3,040.00
1A2	20	LF	\$115.00	12	\$1,380.00
2B2	1	EA	\$13,500.00	1	\$13,500.00
3C1	2	EA	\$6,000.00	2	\$12,000.00
5A1	7	EA	\$280.00	7	\$1,960.00
8A1	40	CY	\$65.00	33	\$2,145.00
12B1	15	SY	\$220.00	12	\$2,640.00
12F1	175	SY	\$45.00	166.67	\$7,500.15
13A1	10	Hrs	\$550.00	10	\$5,500.00
13B3	1	ALW	\$100,000.00	15321.45	\$15,321.45
<i>TOTAL:</i>					<b>\$64,986.60</b>



# ERIE COUNTY WATER AUTHORITY

## REQUISITION ON STORES

Project No.: 202300201      Date: 07-01-2025      Requisition No.: \_\_\_\_\_

Issue To: Kandey Co., Inc.

For Use In: Gerber Drive PRV Pit

Location: Gerber Drive at Abbott Road – Town of Orchard Park

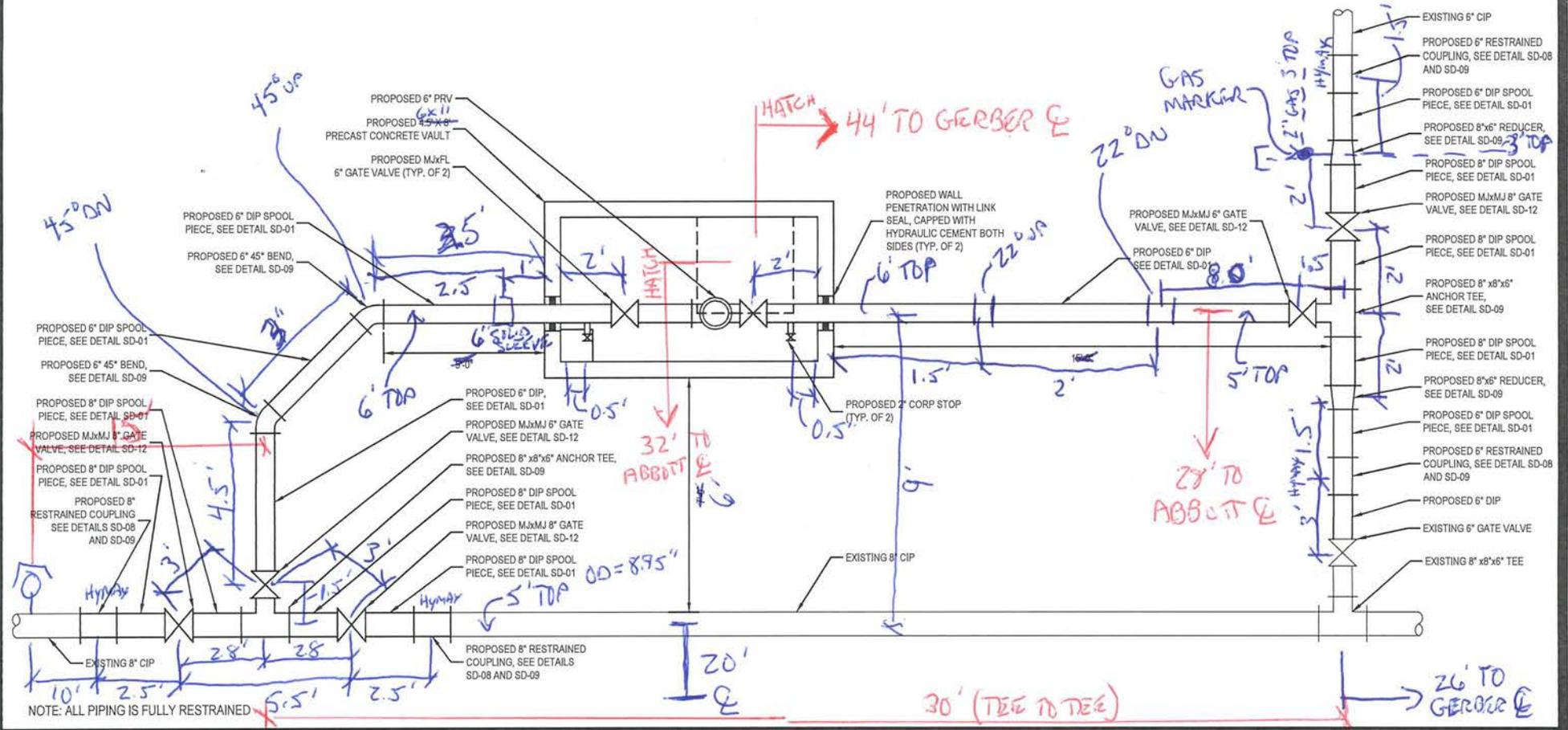
OWIP: \_\_\_\_\_ EC NO.: 107200-007506      Svc. No.: \_\_\_\_\_

Quantity	Description	Part #	On Site	Used	Ret.
20 ft	8" DI Push Pipe				
60 ft	6" DI Push Pipe				
2	8"x8"x6" DI Anchor Tee MJ w/ Accessories				
2	8"x6" DI Reducer MJ w/ Accessories				
2	6" 45° DI Bends MJ w/ Accessories				
3	8" MJ x MJ Gate Valve				
2	6" MJ x MJ Gate Valve				
2	6" FL x MJ Gate Valve				
2	6" Flange Adapters				
2	8" Solid Sleeve w/ Accessories				
2	6" Solid Sleeve w/ Accessories				
100 ft	Poly Wrap				
2	8" CI Mega Lugs				
2	6" CI Mega Lugs				
16	8" DI Mega Lugs				
15	6" DI Mega Lugs				
5	Complete Valve Box				
2	8" Hymax				
2	6" Hymax				
18	Ductile Lugs				
48	3/4" All Thread				
24	Nuts and Washers				
2	2" MIP x Compression Corp				

Kandey Co., Inc \_\_\_\_\_

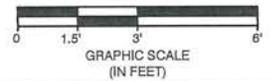
Inspector \_\_\_\_\_

8/4/25 - 8/6/25



NOTE: ALL PIPING IS FULLY RESTRAINED

SCALE: HORZ. 1" = 3'-0"



Approved By:  
 $SELECT = 6 \times 17 \times 4 = 15cy$   
 $12 \times 10 \times 4 = 18cy$   
33cy



ERIE COUNTY WATER AUTHORITY  
 3030 UNION RD.  
 CHEEKTOWAGA, NY 14227

Project Name

GERBER DRIVE PRV PIT  
 ECWA PN202300201  
 TOWN OF ORCHARD PARK  
 ERIE COUNTY - NEW YORK

Name: PRV DETAIL

Date: MAY 2025

Scale: AS SHOWN

Drawn/Revised By: WWW

Sheet

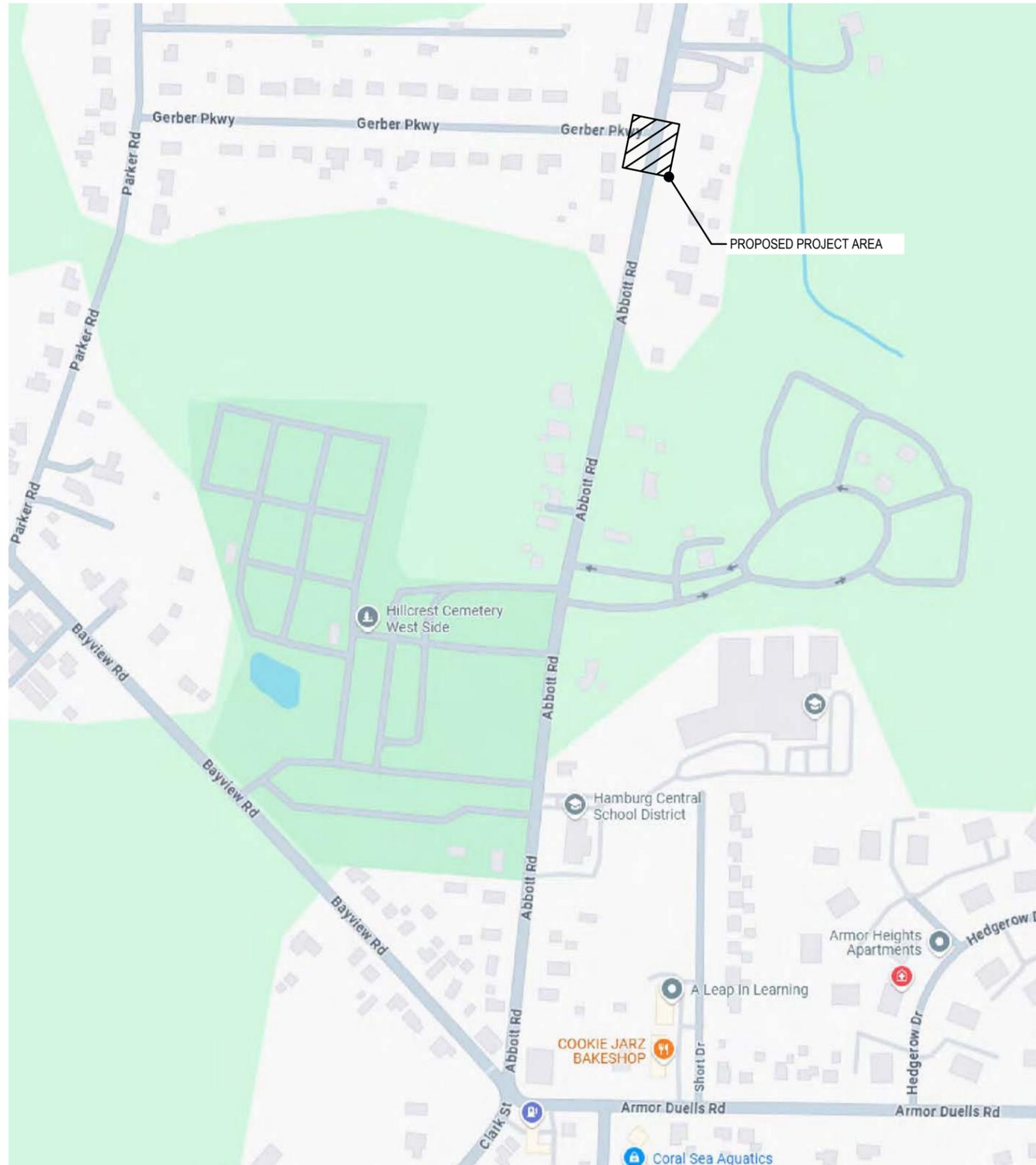
W-2

Page: 3 of 5

File Name: 202300201 - Gerber PRV Design

**Call 811**  
 before you dig

ALL UTILITIES ARE BASED ON BEST GIVEN INFORMATION AND ARE APPROXIMATE ONLY. SOME UTILITIES MAY NOT BE SHOWN. CONTRACTOR SHALL FIELD VERIFY ALL UTILITIES DURING EXCAVATION BY CONTACTING UFPO PRIOR TO PERFORMING ANY EARTHWORK.



### General Notes

- 1.) ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ERIE COUNTY WATER AUTHORITY STANDARD DETAILS AND SPECIFICATIONS
- 2.) DIP WATERMANS SHALL BE PRESSURE TESTED IN ACCORDANCE WITH AWWA C600.
- 3.) WATERMANS SHALL BE TESTED AND DISINFECTED IN ACCORDANCE WITH AWWA STANDARD C651, HOWEVER THE TABLET METHOD IS NOT ALLOWED
- 4.) SEE STANDARD DETAIL GENERAL NOTES SECTION ON MISCELLANEOUS DETAILS
- 5.) CONTRACTOR TO PROVIDE MAINTENANCE AND PROTECTION OF TRAFFIC THROUGHOUT CONSTRUCTION
- 6.) SERVICE LOCATIONS ARE APPROXIMATIONS ONLY AND SHOULD BE FIELD CHECKED PRIOR TO CONSTRUCTION
- 7.) CONTRACTOR WILL BE REQUIRED TO COMPLETE TEST PITS AS DIRECTED BY THE ENGINEER.

### Legend

	= SANITARY MH
	= TRAFFIC MH
	= STORM MH
	= CATCH BASIN
	= UTILITY POLE
	= FIRE HYDRANT
	= WATER VALVE (PROPOSED)
	= WATER VALVE (EXISTING)
	= EXISTING WATERLINE
	= NEW WATERLINE
	= SANITARY SEWER
	= STORM SEWER
	= GAS MAIN
	= ELECTRIC
	= TELEPHONE



Name:  
LOCATION MAP  
AND LEGEND

Date:  
MAY 2025

Scale:  
NTS

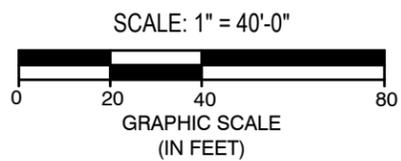
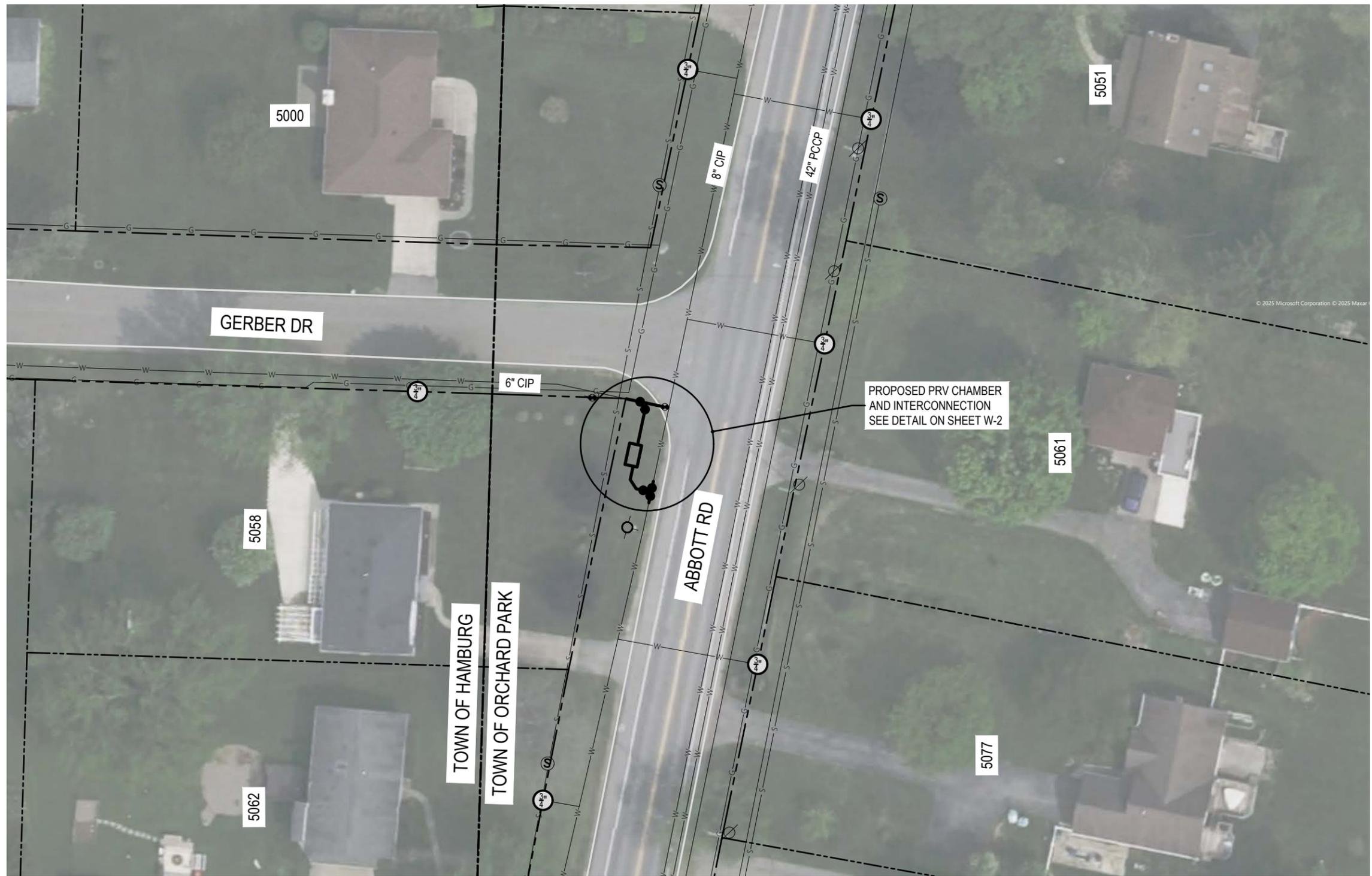
Drawn/Revised By:  
WWW

Sheet

**G-1**

Page: 1 of 5

File Name:  
202300201 - Gerber PRV Design



ALL UTILITIES ARE BASED ON BEST GIVEN INFORMATION AND ARE APPROXIMATE ONLY. SOME UTILITIES MAY NOT BE SHOWN. CONTRACTOR SHALL FIELD VERIFY ALL UTILITIES DURING EXCAVATION BY CONTACTING UFPO PRIOR TO PERFORMING ANY EARTHWORK.

Approved By:



ERIE COUNTY WATER AUTHORITY  
3030 UNION RD.  
CHEEKTOWAGA, NY 14227

Project Name

GERBER DRIVE PRV PIT  
ECWA PN202300201

TOWN OF ORCHARD PARK  
ERIE COUNTY - NEW YORK

Name: PLAN

Date: MAY 2025

Scale: AS SHOWN

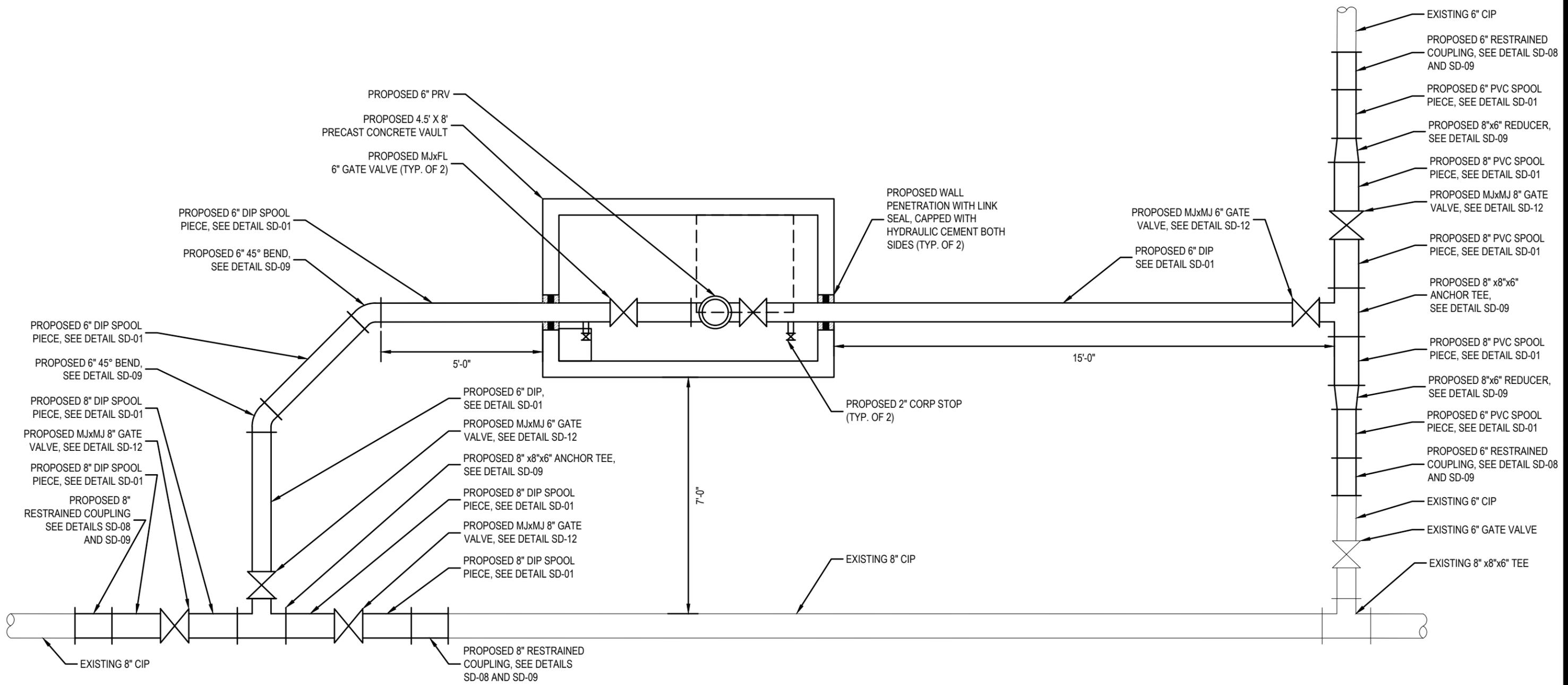
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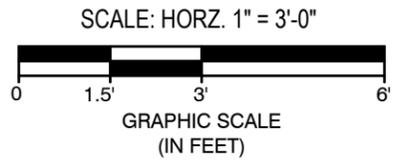
W-1

Page: 2 of 5

File Name:  
202300201 - Gerber PRV Design



NOTE: ALL PIPING IS FULLY RESTRAINED



ERIE COUNTY WATER AUTHORITY  
3030 UNION RD.  
CHEEKTOWAGA, NY 14227

Project Name

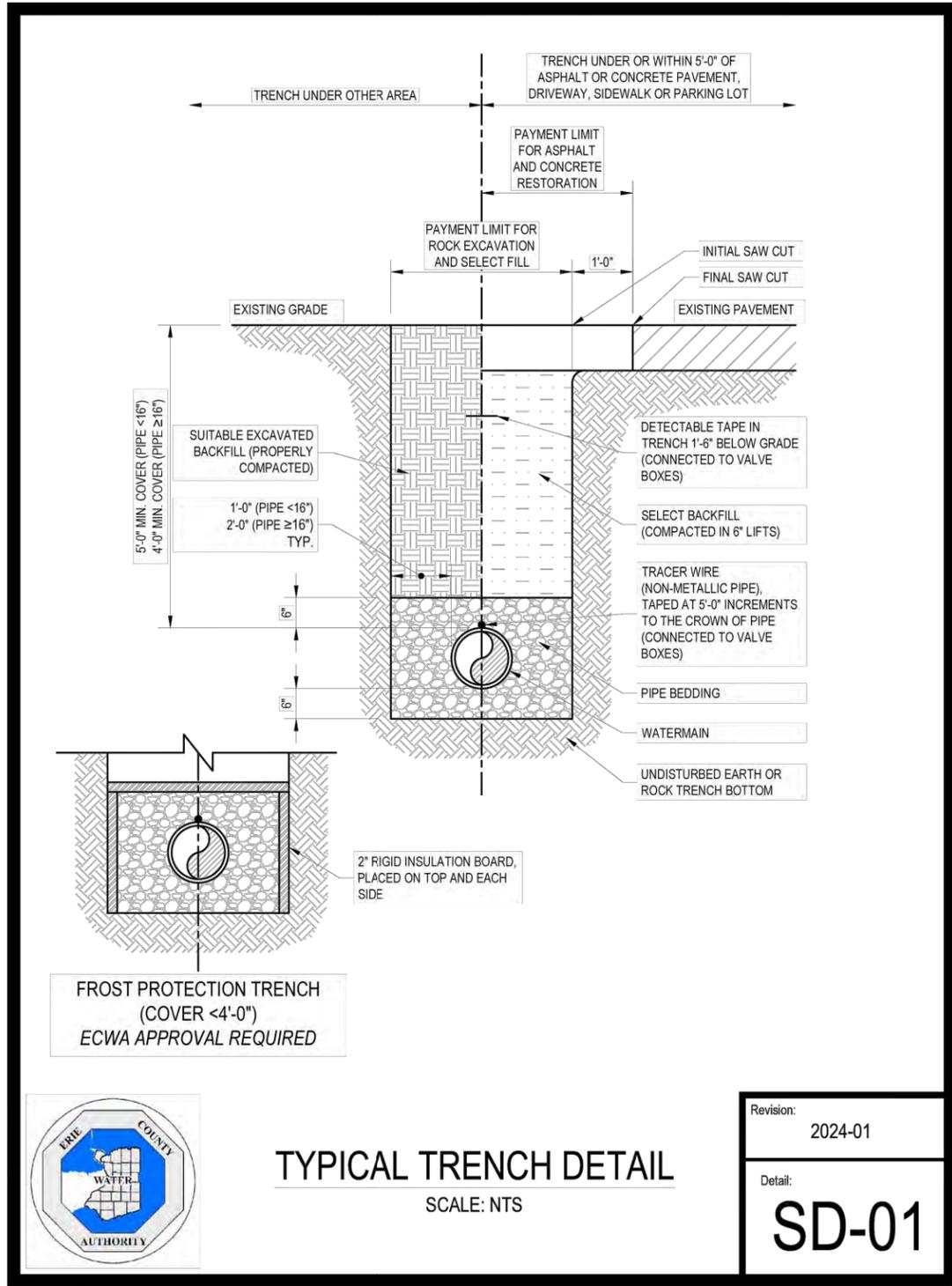
GERBER DRIVE PRV PIT  
ECWA PN202300201

TOWN OF ORCHARD PARK  
ERIE COUNTY - NEW YORK

Name:	PRV DETAIL	Sheet	<b>W-2</b>
Date:	MAY 2025		
Scale:	AS SHOWN	Page: 3 of 5	
Drawn/Revised By:	WWW	File Name: 202300201 - Gerber PRV Design	



ALL UTILITIES ARE BASED ON BEST GIVEN INFORMATION AND ARE APPROXIMATE ONLY. SOME UTILITIES MAY NOT BE SHOWN. CONTRACTOR SHALL FIELD VERIFY ALL UTILITIES DURING EXCAVATION BY CONTACTING UFPO PRIOR TO PERFORMING ANY EARTHWORK.

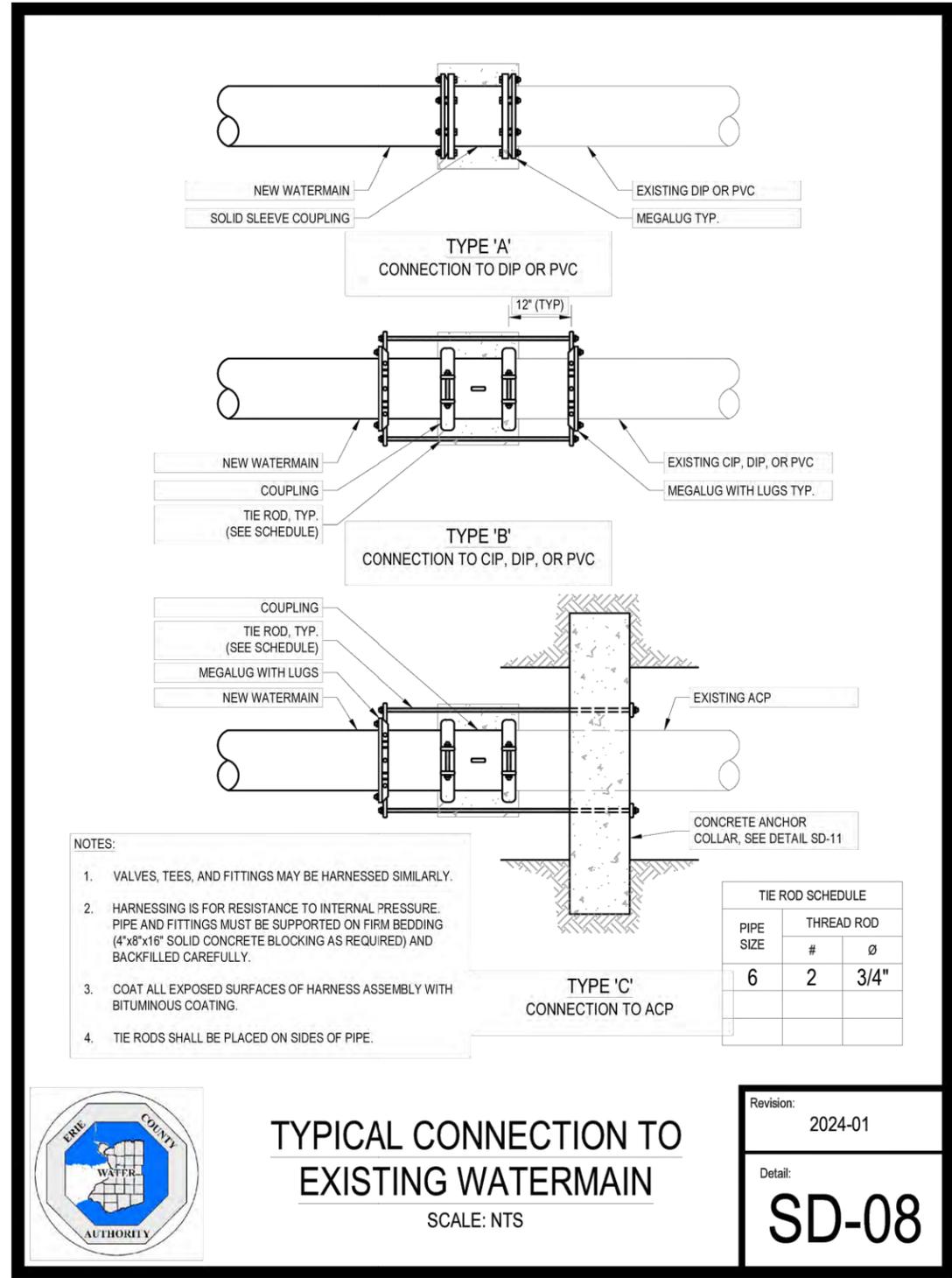


**TYPICAL TRENCH DETAIL**

SCALE: NTS

Revision: 2024-01

Detail: SD-01



**TYPICAL CONNECTION TO EXISTING WATERMAIN**

SCALE: NTS

Revision: 2024-01

Detail: SD-08

Approved By:



ERIE COUNTY WATER AUTHORITY  
3030 UNION RD.  
CHEEKTOWAGA, NY 14227

Project Name

GERBER DRIVE PRV PIT  
ECWA PN202300201

TOWN OF ORCHARD PARK  
ERIE COUNTY - NEW YORK

Name: MISCELLANEOUS  
DETAILS

Date: MAY 2025

Scale: AS SHOWN

Drawn/Revised By:  
WWW

Sheet

**W-3**

Page: 4 of 5

File Name:  
202300201 - Gerber PRV Design



**ERIE COUNTY WATER AUTHORITY  
CONSTRUCTION AUTHORIZATION**

Project No. 202500147  
Budget No. \_\_\_\_\_

Authorization No.: EC 7514  
Date: 8/01/2025  
Inputted By/Date: \_\_\_\_\_

July 2023 Estimate Starting Date  
November 2025 Estimate Complete Date  
yes  no Retirement Involved  
X Public Street  
Private Right of Way  
On Authority's Prop  
Tax Districts \_\_\_\_\_  
Name of Grantor of Easement \_\_\_\_\_  
Date of Easement \_\_\_\_\_

**TITLE OF PROJECT:** \_\_\_\_\_  
Crittenden Rd. PRV Installation.

**CLASS OF MAIN INSTALLATION:**  
X System Betterment  
Bldr/Cont/Dev. Agree.  
Owner Occupant Cont.  
Special Revenue Cont.

**DETAILED DESCRIPTION AND PURPOSE:**  
Installation of new PRV's on the south property line of 5130 Crittenden Road, Newstead.  
The PRV's will stop the short circuiting of the Newstead pump station to improve tank fill rates.

**ESTIMATE COST**

(1) Total Est. Cost \$ 49,707.20  
(2) \_\_\_\_\_ Meters and Service @ \$ \_\_\_\_\_  
(3) Removal Cost Less Salvage \$ \_\_\_\_\_  
(4) Gross Investment \$ 49,707.20

**DEDUCT**

(5) Const. Advance \$ \_\_\_\_\_  
(6) Service Conn. \$ \_\_\_\_\_  
(7) Refunds \$ \_\_\_\_\_  
(8) Net Auth. Invest. \$ 49,707.20

**BUDGETARY DATA**

(9) Tot. Budget Expnd. \$ \_\_\_\_\_  
(10) This Authorization \$ \_\_\_\_\_  
(11) Pre Approved \$ \_\_\_\_\_  
(12) Tot. Apvl. To Date \$ \_\_\_\_\_  
(13) Bal. Budget Expnd. \$ \_\_\_\_\_

**APPROVALS**

Preparation Michael Stoklosa  
Dir. of Dist.  2/27/2026  
Exec. Engr.  3/4/2026  
Admn. Director \_\_\_\_\_  
Legal Dept. \_\_\_\_\_  
Acct. Dept. \_\_\_\_\_

**ESTIMATED EARNINGS & RETURNS**

**ESTIMATED INCREASE IN REVENUES**

(14) \_\_\_\_\_ Customers @ \$ \_\_\_\_\_  
\$ \_\_\_\_\_  
(15) \_\_\_\_\_ Hydrants @ \$ \_\_\_\_\_  
\$ \_\_\_\_\_

**EST. SAVINGS IN OPERATING EXPENSES**

(16) \_\_\_\_\_ \$ \_\_\_\_\_  
(17) Gross Increase in Earnings \$ \_\_\_\_\_

**REVENUE DEDUCTIONS**

(18) Operating Exp. \_\_\_\_\_ % \$ \_\_\_\_\_  
(19) Depreciation \$ \_\_\_\_\_  
(20) Total Deductions \$ \_\_\_\_\_  
(21) Net Income Loss \$ \_\_\_\_\_  
(22) % Return on Investment \_\_\_\_\_  
(21) divided by 8) \_\_\_\_\_ %

**RESOLUTION APPROVING**

Adopted \_\_\_\_\_  
Item No. \_\_\_\_\_

ESTIMATE No: 2  
MPO NUMBER: 2025011  
PERIOD COVERED 11/02/25 TO 11/29/25

Project # 202500010

CONTRACTOR: Kandey Company, Inc.  
19 Ransier Drive  
West Seneca, NY 14224

Vendor # V1121

BID ITEM #	QUANTITY	UNIT	UNIT COST	CONTRACT BREAKDOWN	COMPLETED TO DATE			COMPLETED PREV ESTIMATE			AMOUNT THIS ESTIMATE
					QUANTITY	PERCENT	AMOUNT	QUANTITY	PERCENT	AMOUNT	
1A1	3500	LF @	\$95.00	\$332,500.00	125.00	3.57%	\$11,875.00	105.00	3.00%	\$9,975.00	\$1,900.00
1A2	50	LF @	\$115.00	\$5,750.00	19.00	38.00%	\$2,185.00	19.00	38.00%	\$2,185.00	\$0.00
1B1	500	LF @	\$110.00	\$55,000.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
1B2	50	LF @	\$125.00	\$6,250.00	3.00	6.00%	\$375.00	3.00	6.00%	\$375.00	\$0.00
1C1	300	LF @	\$120.00	\$36,000.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
1C2	50	LF @	\$140.00	\$7,000.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
1D1	300	LF @	\$130.00	\$39,000.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
1D2	50	LF @	\$160.00	\$8,000.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
1E1	300	LF @	\$150.00	\$45,000.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
1E2	50	LF @	\$170.00	\$8,500.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
2A1	20	Ea @	\$4,000.00	\$80,000.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
2A2	5	Ea @	\$4,250.00	\$21,250.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
2A3	1	Ea @	\$4,750.00	\$4,750.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
2A4	1	Ea @	\$5,250.00	\$5,250.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
2A5	1	Ea @	\$5,750.00	\$5,750.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
2B1	1	Ea @	\$13,500.00	\$13,500.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
2B2	1	Ea @	\$13,500.00	\$13,500.00	2.00	200.00%	\$27,000.00	1.00	100.00%	\$13,500.00	\$13,500.00
2B3	1	Ea @	\$14,000.00	\$14,000.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
2B4	1	Ea @	\$18,500.00	\$18,500.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
2B5	1	Ea @	\$18,500.00	\$18,500.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
2C1	1	Ea @	\$6,000.00	\$6,000.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
2D1	5	Ea @	\$1,600.00	\$8,000.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
3A1	30	Ea @	\$2,800.00	\$84,000.00	4.00	13.33%	\$11,200.00	3.00	10.00%	\$8,400.00	\$2,800.00
3A2	5	Ea @	\$3,400.00	\$17,000.00	1.00	20.00%	\$3,400.00	1.00	20.00%	\$3,400.00	\$0.00
3A3	5	Ea @	\$5,300.00	\$26,500.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
3A4	5	Ea @	\$6,250.00	\$31,250.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
3A5	5	Ea @	\$8,000.00	\$40,000.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
3B1	1	Ea @	\$5,700.00	\$5,700.00	1.00	100.00%	\$5,700.00	1.00	100.00%	\$5,700.00	\$0.00
3B2	1	Ea @	\$5,700.00	\$5,700.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
3C1	5	Ea @	\$6,000.00	\$30,000.00	2.00	40.00%	\$12,000.00	2.00	40.00%	\$12,000.00	\$0.00
3C2	5	Ea @	\$6,000.00	\$30,000.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
3C3	1	Ea @	\$14,500.00	\$14,500.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
3C4	1	Ea @	\$35,000.00	\$35,000.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
3C5	1	Ea @	\$40,000.00	\$40,000.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
4A1	10	Ea @	\$1,700.00	\$17,000.00	1.00	10.00%	\$1,700.00	1.00	10.00%	\$1,700.00	\$0.00
4A2	5	Ea @	\$1,700.00	\$8,500.00	2.00	40.00%	\$3,400.00	2.00	40.00%	\$3,400.00	\$0.00
4B1	10	Ea @	\$850.00	\$8,500.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
5A1	100	Ea @	\$280.00	\$28,000.00	24.00	24.00%	\$6,720.00	20.00	20.00%	\$5,600.00	\$1,120.00
5A2	30	Ea @	\$350.00	\$10,500.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
5A3	20	Ea @	\$2,100.00	\$42,000.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
5A4	20	Ea @	\$2,200.00	\$44,000.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
5A5	10	Ea @	\$2,300.00	\$23,000.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
6A1	3000	LF @	\$2.00	\$6,000.00	100.00	3.33%	\$200.00	100.00	3.33%	\$200.00	\$0.00
7A1	20	CY @	\$350.00	\$7,000.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
7B1	10	Ea @	\$750.00	\$7,500.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
7B2	50	CY @	\$60.00	\$3,000.00	2.00	4.00%	\$120.00	2.00	4.00%	\$120.00	\$0.00
8A1	1800	CY @	\$65.00	\$117,000.00	176.00	9.78%	\$11,440.00	169.00	9.39%	\$10,985.00	\$455.00
8B1	50	CY @	\$200.00	\$10,000.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
9A1	20	Ea @	\$2,200.00	\$44,000.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
9A2	5	Ea @	\$2,500.00	\$12,500.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
9A3	5	Ea @	\$2,300.00	\$11,500.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
9A4	5	Ea @	\$2,500.00	\$12,500.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00

BID ITEM #	QUANTITY	UNIT	UNIT COST	CONTRACT BREAKDOWN	COMPLETED TO DATE			COMPLETED PREV ESTIMATE			AMOUNT THIS ESTIMATE
					QUANTITY	PERCENT	AMOUNT	QUANTITY	PERCENT	AMOUNT	
9B1	10	LF @	\$18.00	\$180.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
9B2	10	LF @	\$28.00	\$280.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
9B3	10	LF @	\$18.00	\$180.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
9B4	10	LF @	\$28.00	\$280.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
9C1	5	Ea @	\$560.00	\$2,800.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
9C2	1	Ea @	\$1,200.00	\$1,200.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
9C3	1	Ea @	\$1,700.00	\$1,700.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
10A1	20	LF @	\$200.00	\$4,000.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
10A2	20	LF @	\$200.00	\$4,000.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
10A3	20	LF @	\$250.00	\$5,000.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
10A4	20	LF @	\$400.00	\$8,000.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
11A1	50	LF @	\$11.00	\$550.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
11A2	50	LF @	\$11.00	\$550.00	85.00	170.00%	\$935.00	85.00	170.00%	\$935.00	\$0.00
11A3	500	LF @	\$11.00	\$5,500.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
11A4	250	LF @	\$11.00	\$2,750.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
11A5	250	LF @	\$11.00	\$2,750.00	10.00	4.00%	\$110.00	10.00	4.00%	\$110.00	\$0.00
11A6	250	LF @	\$12.00	\$3,000.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
11A7	250	LF @	\$12.00	\$3,000.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
11A8	250	LF @	\$12.00	\$3,000.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
11A9	250	LF @	\$15.00	\$3,750.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
11A10	250	LF @	\$15.00	\$3,750.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
12A1	50	SY @	\$105.00	\$5,250.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
12B1	600	SY @	\$220.00	\$132,000.00	21.00	3.50%	\$4,620.00	21.00	3.50%	\$4,620.00	\$0.00
12B2	20	SY @	\$300.00	\$6,000.00	40.00	200.00%	\$12,000.00	40.00	200.00%	\$12,000.00	\$0.00
12B3	300	SY @	\$350.00	\$105,000.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
12B4	20	SY @	\$345.00	\$6,900.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
12B5	20	LF @	\$300.00	\$6,000.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
12B6	20	LF @	\$155.00	\$3,100.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
12B7	20	LF @	\$220.00	\$4,400.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
12B8	200	SY @	\$190.00	\$38,000.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
12B9	100	SY @	\$105.00	\$10,500.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
12B10	50	SY @	\$55.00	\$2,750.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
12B11	5	Ea @	\$3,500.00	\$17,500.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
12C1	10	SY @	\$130.00	\$1,300.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
12C2	400	SY @	\$175.00	\$70,000.00	36.00	9.00%	\$6,300.00	36.00	9.00%	\$6,300.00	\$0.00
12D1	200	SY @	\$200.00	\$40,000.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
12D2	100	SY @	\$205.00	\$20,500.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
12E1	500	SY @	\$7.00	\$3,500.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
12F1	3200	SY @	\$45.00	\$144,000.00	425.67	13.30%	\$19,155.15	350.67	10.96%	\$15,780.15	\$3,375.00
12G1	1	Ea @	\$485.00	\$485.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
12G2	1	Ea @	\$485.00	\$485.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
12G3	1	Ea @	\$700.00	\$700.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
12G4	1	Ea @	\$100.00	\$100.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
12G5	1	Ea @	\$270.00	\$270.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
12G6	1	Ea @	\$270.00	\$270.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
12G7	1	Ea @	\$800.00	\$800.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
12G8	1	Ea @	\$215.00	\$215.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
13A1	200	Hrs @	\$550.00	\$110,000.00	18.00	9.00%	\$9,900.00	16.00	8.00%	\$8,800.00	\$1,100.00
13A2	50	Hrs @	\$215.00	\$10,750.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
13A3	50	Hrs @	\$450.00	\$22,500.00	12.00	24.00%	\$5,400.00	12.00	24.00%	\$5,400.00	\$0.00
13B1	1	ALW	\$300,000.00	\$300,000.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
13B2	1	ALW	\$100,000.00	\$100,000.00	5,065.03	5.07%	\$5,065.03	5,065.03	5.07%	\$5,065.03	\$0.00
13B3	1	ALW	\$100,000.00	\$100,000.00	35,008.30	35.01%	\$35,008.30	15,321.45	15.32%	\$15,321.45	\$0.00
13B4	1	ALW	\$50,000.00	\$50,000.00	1,334.26	2.67%	\$1,334.26	0.00	0.00%	\$0.00	\$0.00
14A1	1	ALW	\$40,000.00	\$40,000.00	0.00	0.00%	\$0.00	0.00	0.00%	\$0.00	\$0.00
<b>Total</b>				<b>\$2,933,645.00</b>	<b>--</b>	<b>6.72%</b>	<b>\$197,142.74</b>	<b>--</b>	<b>5.18%</b>	<b>\$151,871.63</b>	<b>\$45,271.11</b>
5% Retention:										\$2,263.56	
Returned Retention:										\$0.00	
Revised Retention Amount:										\$2,263.56	
Amount Due This Estimate:										\$43,007.55	

I HEREBY CERTIFY THAT ACCORDING TO THE ABOVE MENTIONED CONTRACT, THIS IS A JUST ESTIMATE OF THE WORK DONE AND THE MATERIALS FURNISHED UNDER THE CONTRACT BETWEEN 11/02/25 AND 11/29/2025 BOTH INCLUSIVE AND THE VALUE THEREOF, BEING \$45,271.11 AS REQUIRED BY AGREEMENT ARTICLE 6.03 OF THE SAID CONTRACT.

PREPARED BY: Marc A. Belluso 12/04/2025  
DATE

BY: Janice Coull 12/4/25  
CONTRACTOR DATE

Bill P. 12/8/2025  
DIRECTOR OF DISTRIBUTION DATE

Leonard F. Konaleski 12/23/2025  
EXECUTIVE ENGINEER DATE

PROJECT NUMBER: 202500147  
 EC/OWIP NUMBER: 107200-7514  
 PROJECT DISCRIPTION: Crittenden Road PRV Installation

<i>BID ITEM #</i>	<i>EST. QUANTITY</i>	<i>UNIT</i>	<i>UNIT COST</i>	<i>MEASURED QUANTITY</i>	<i>AMOUNT</i>
1A1		LF	\$95.00	20	\$1,900.00
2B2		EA	\$13,500.00	1	\$13,500.00
3A1		EA	\$2,800.00	1	\$2,800.00
5A1		EA	\$280.00	4	\$1,120.00
8A1		CY	\$65.00	7	\$455.00
12F1		SY	\$45.00	75	\$3,375.00
13A1		Hrs	\$550.00	2	\$1,100.00
13B3		ALW	\$100,000.00	19686.85	\$19,686.85
13B4		ALW	\$50,000.00	1334.26	\$1,334.26
<i>TOTAL:</i>					\$45,271.11



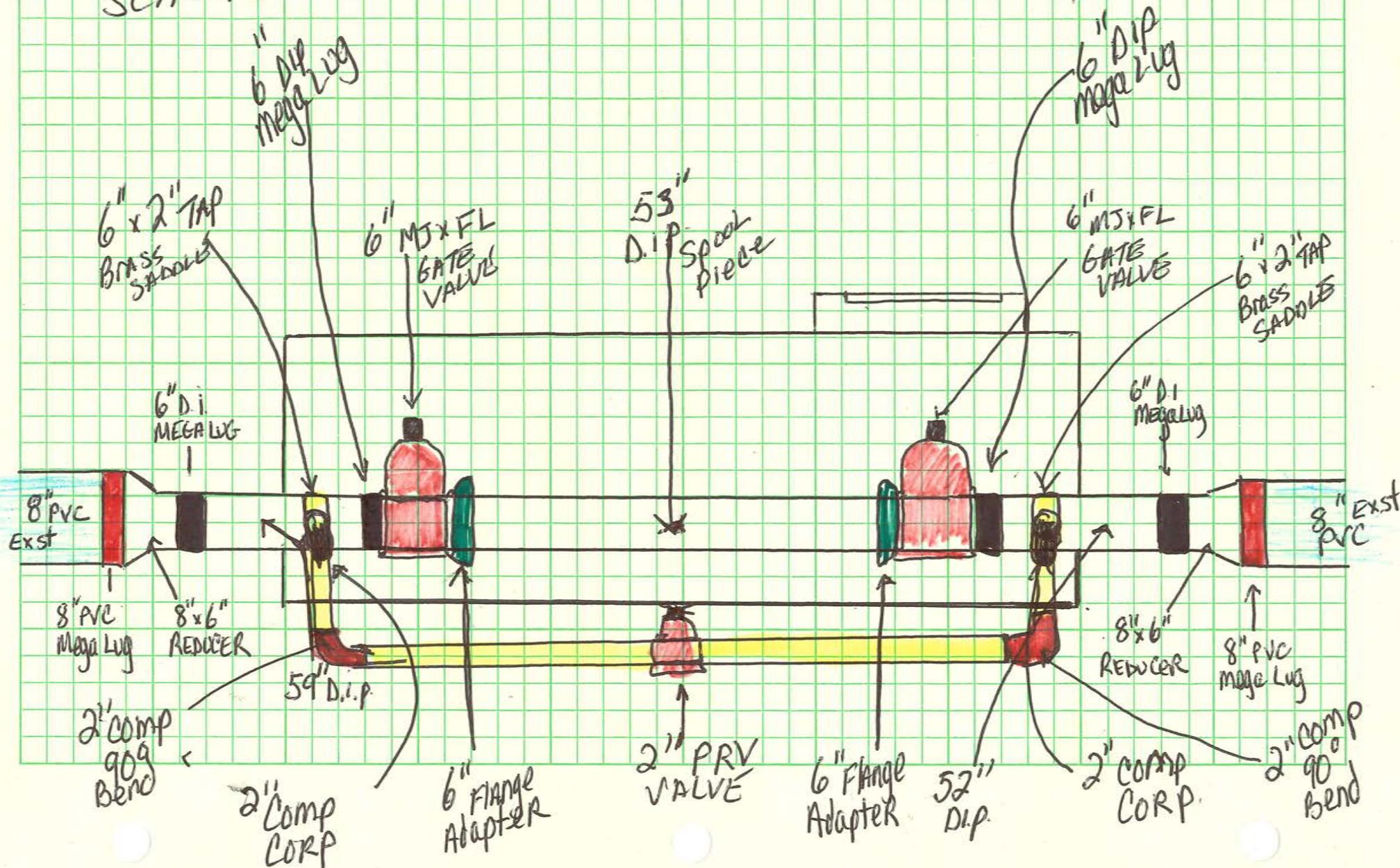
NETN-191-2501 (202500147)

NEW PRV PIT @ CRITTENDEN EAST OF STAGGS RD

Contractor  
KANDY Co.

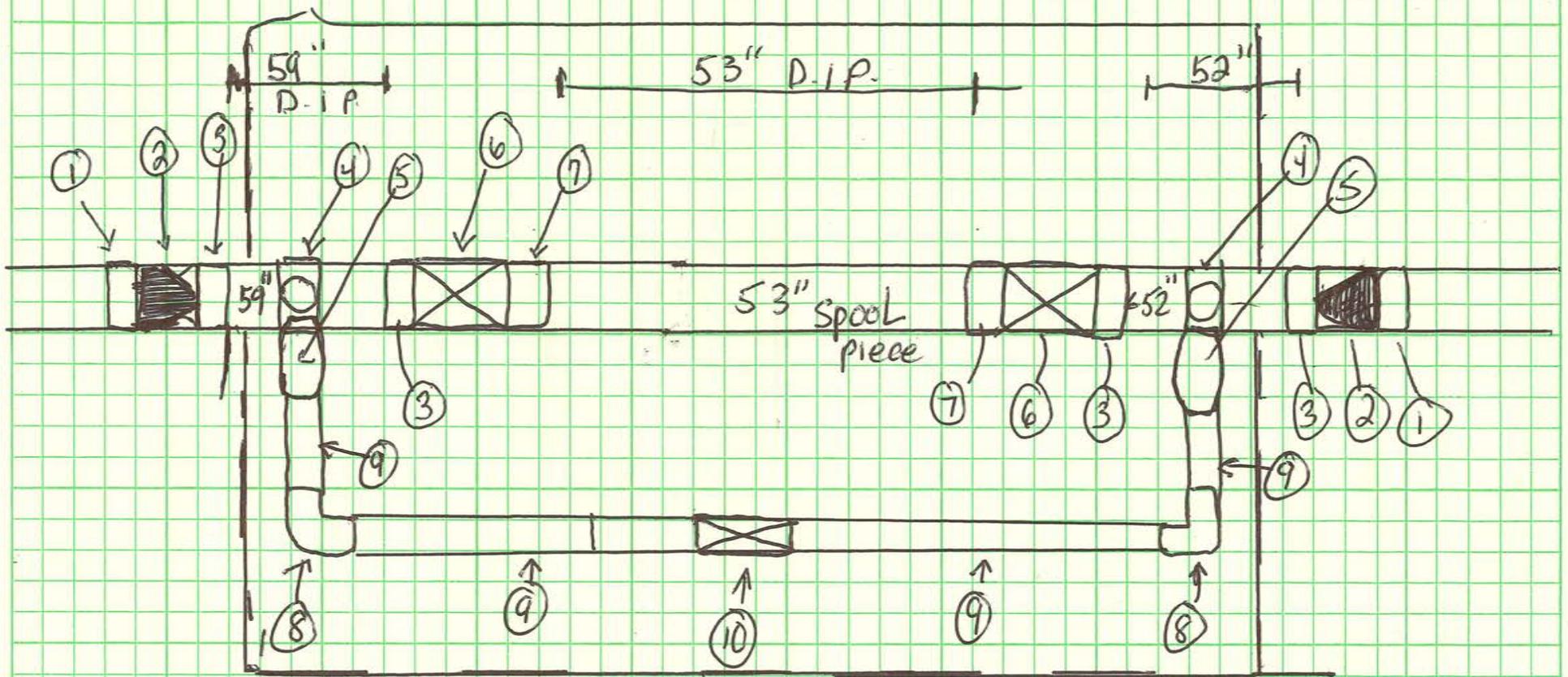
INSPECTOR  
SCHULTZ

10/15/25  
10/16/25

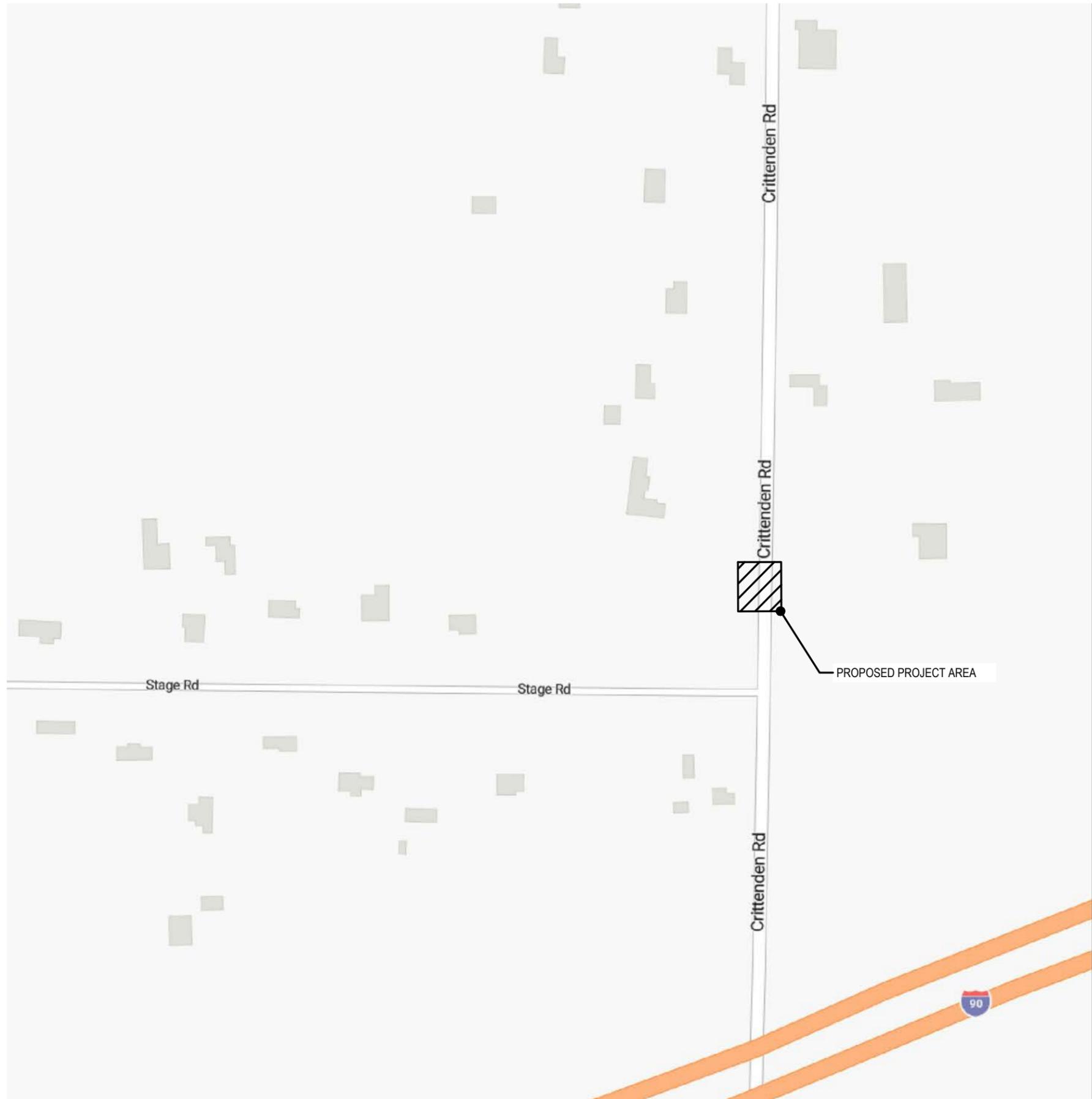


NETN-191-2501 (202500147)

- ① 8" PVC ML
- ② 8x6 Reducer
- ③ 6" DIP ML
- ④ 6"x2" tap saddle
- ⑤ 2" Comp Corp
- ⑥ 6" FLXMS GATE VALVE
- ⑦ 6" Flange Adapter
- ⑧ 2" Comp 90's
- ⑨ 2" Copper
- ⑩ 2" VALVE



CRITTENDEN @ STAGE RD PRV



**General Notes**

- 1.) ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ERIE COUNTY WATER AUTHORITY STANDARD DETAILS AND SPECIFICATIONS
- 2.) DIP WATERMANS SHALL BE PRESSURE TESTED IN ACCORDANCE WITH AWWA C600.
- 3.) WATERMANS SHALL BE TESTED AND DISINFECTED IN ACCORDANCE WITH AWWA STANDARD C651, HOWEVER THE TABLET METHOD IS NOT ALLOWED
- 4.) SEE STANDARD DETAIL GENERAL NOTES SECTION ON MISCELLANEOUS DETAILS
- 5.) CONTRACTOR TO PROVIDE MAINTENANCE AND PROTECTION OF TRAFFIC THROUGHOUT CONSTRUCTION
- 6.) SERVICE LOCATIONS ARE APPROXIMATIONS ONLY AND SHOULD BE FIELD CHECKED PRIOR TO CONSTRUCTION
- 7.) CONTRACTOR WILL BE REQUIRED TO COMPLETE TEST PITS AS DIRECTED BY THE ENGINEER.

**Legend**

- = SANITARY MH
- = TRAFFIC MH
- = STORM MH
- = CATCH BASIN
- = UTILITY POLE
- = FIRE HYDRANT
- = WATER VALVE (PROPOSED)
- = WATER VALVE (EXISTING)
- = EXISTING WATERLINE
- = NEW WATERLINE
- = SANITARY SEWER
- = STORM SEWER
- = GAS MAIN
- = ELECTRIC
- = TELEPHONE

Name:  
LOCATION MAP  
AND LEGEND

Date:  
AUGUST 2025

Scale:  
NTS

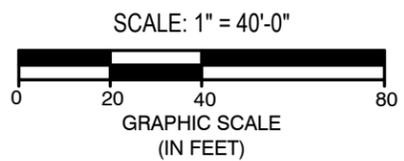
Drawn/Revised By:  
WWW

Sheet

**G-1**

Page: 1 of 5

File Name:  
202500147 - Crittenden PRV Design



Approved By:



ERIE COUNTY WATER AUTHORITY  
3030 UNION RD.  
CHEEKTOWAGA, NY 14227

Project Name

**CRITTENDEN RD PRV PIT  
ECWA PN202500147**

TOWN OF NEWSTEAD  
ERIE COUNTY - NEW YORK

Name:	PLAN
Date:	AUGUST 2025
Scale:	AS SHOWN
Drawn/Revised By:	WWW

Sheet

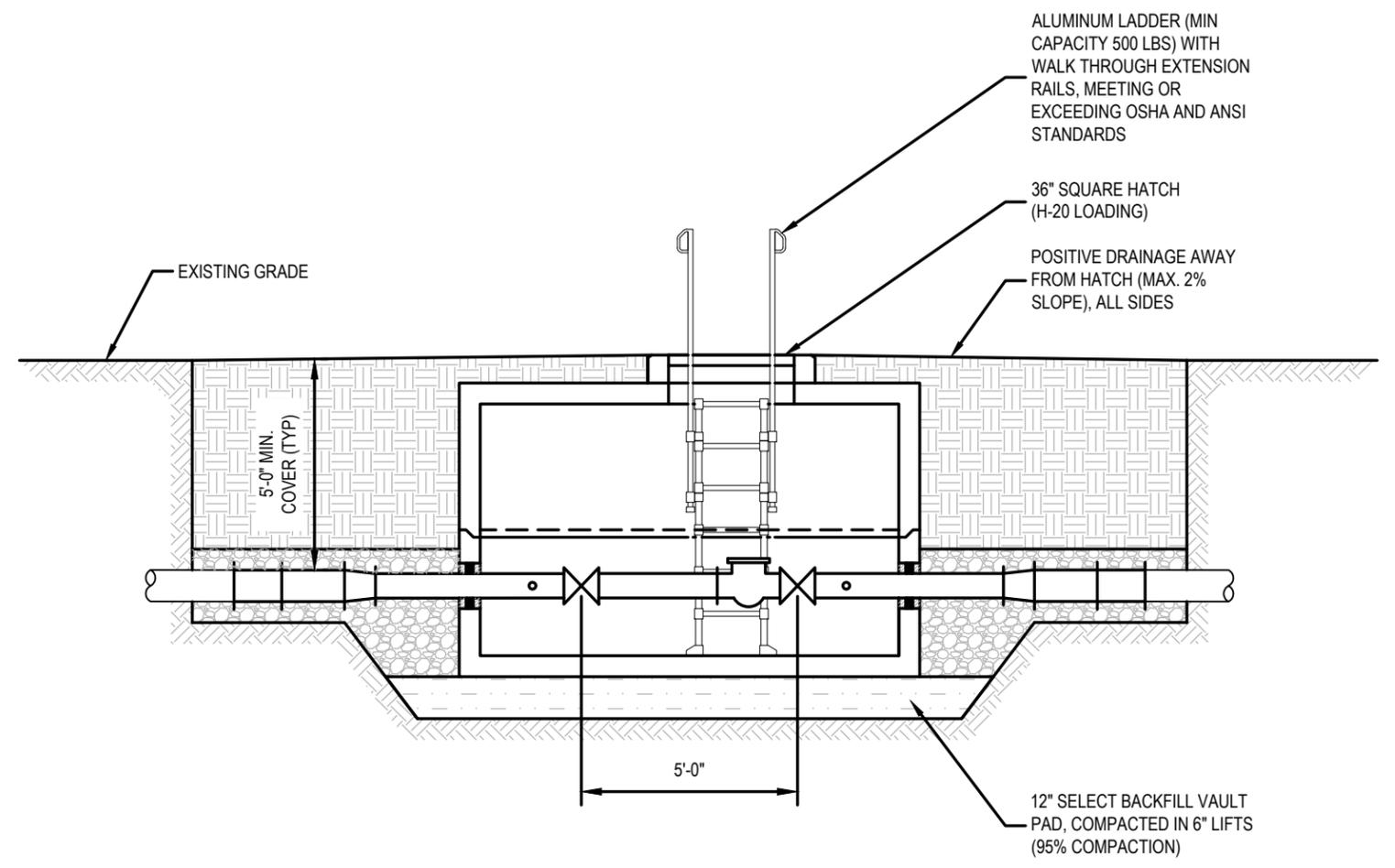
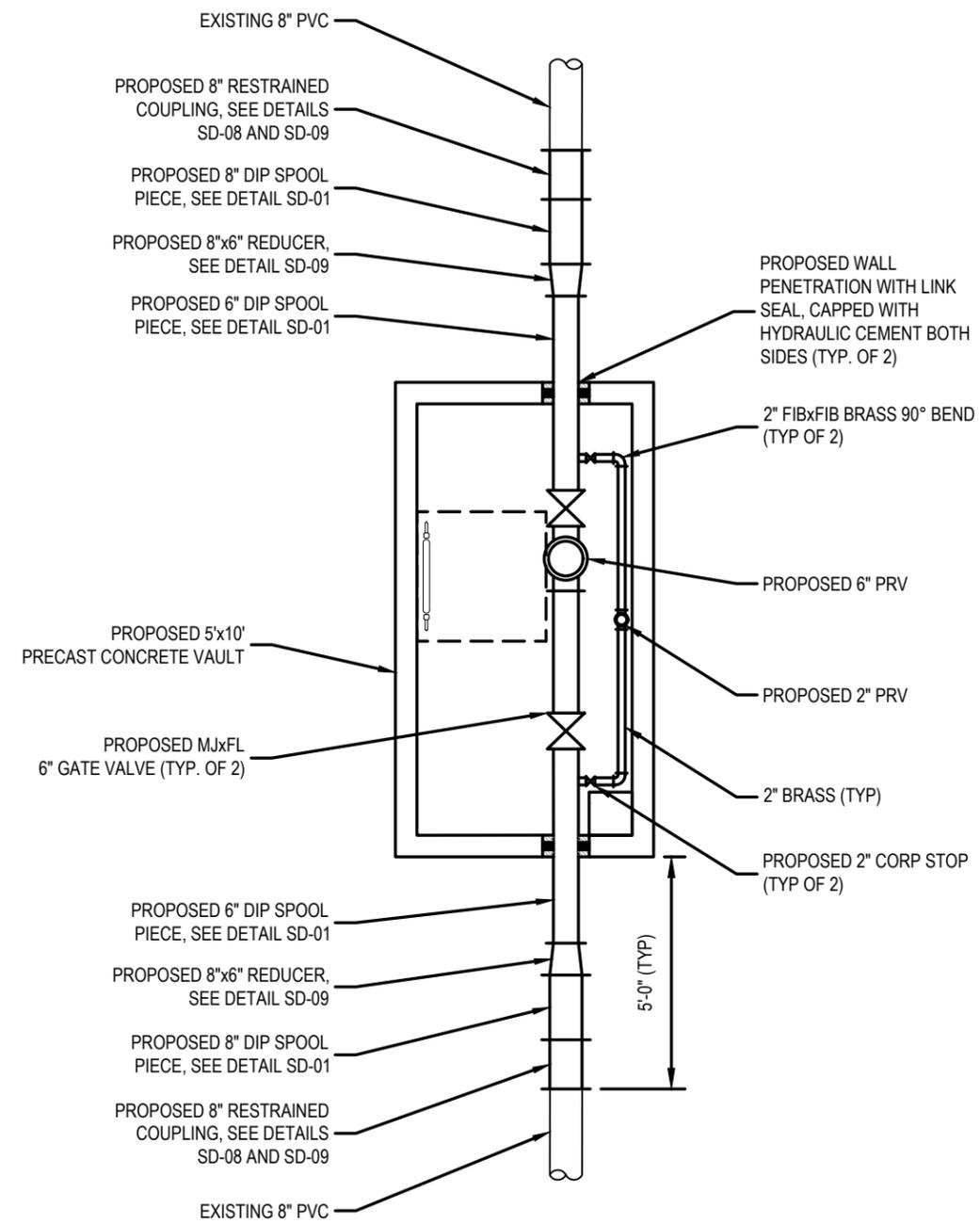
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Page: 2 of 5

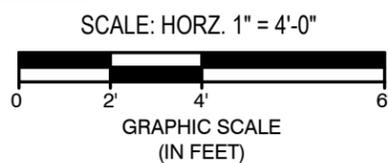
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202500147 - Crittenden PRV Design



ALL UTILITIES ARE BASED ON BEST GIVEN INFORMATION AND ARE APPROXIMATE ONLY. SOME UTILITIES MAY NOT BE SHOWN. CONTRACTOR SHALL FIELD VERIFY ALL UTILITIES DURING EXCAVATION BY CONTACTING UFPO PRIOR TO PERFORMING ANY EARTHWORK.



NOTE: ALL PIPING IS FULLY RESTRAINED AND SUPPORTED AS REQUIRED



Approved By:



ERIE COUNTY WATER AUTHORITY  
3030 UNION RD.  
CHEEKTOWAGA, NY 14227

Project Name

CRITTENDEN RD PRV PIT  
ECWA PN202500147

TOWN OF NEWSTEAD  
ERIE COUNTY - NEW YORK

Name:  
PRV DETAIL

Date:  
AUGUST 2025

Scale:  
AS SHOWN

Drawn/Revised By:  
WWW

Sheet

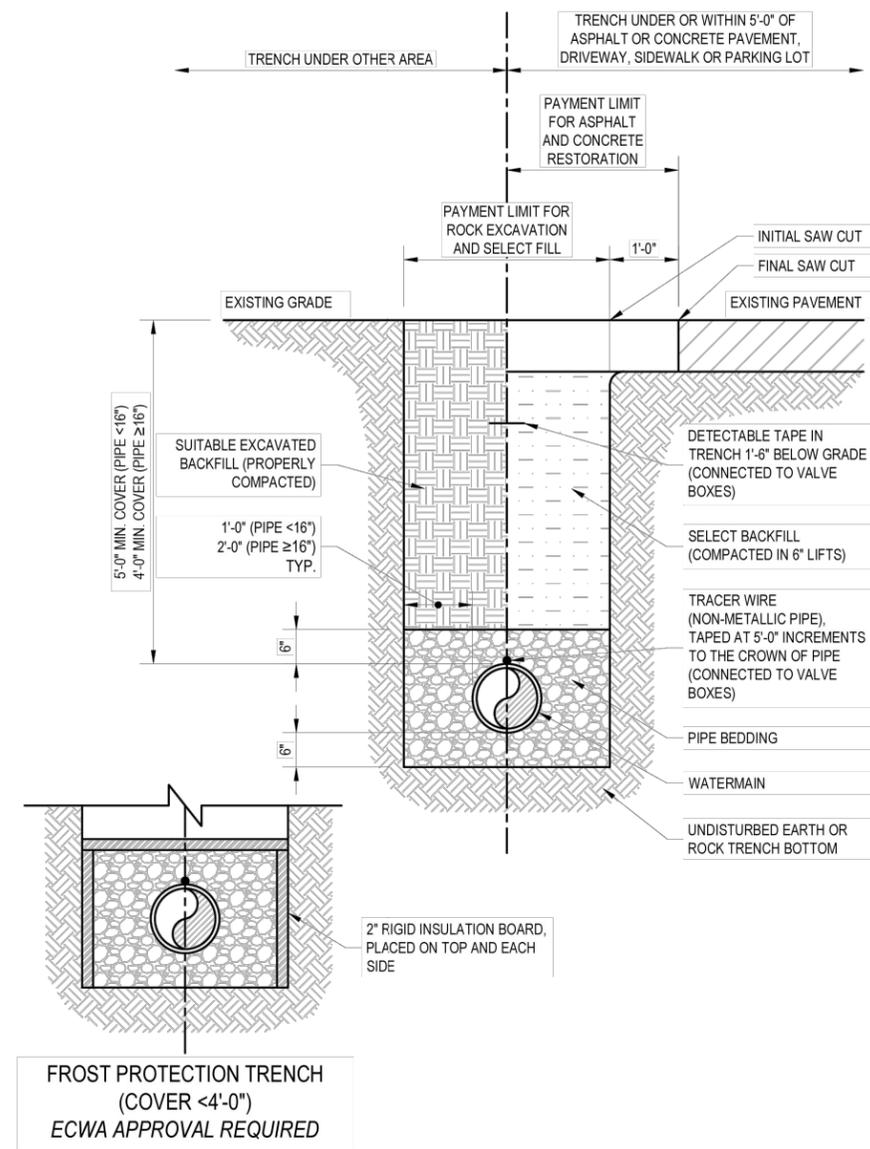
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Page: 3 of 5

File Name:  
202500147 - Crittenden PRV Design

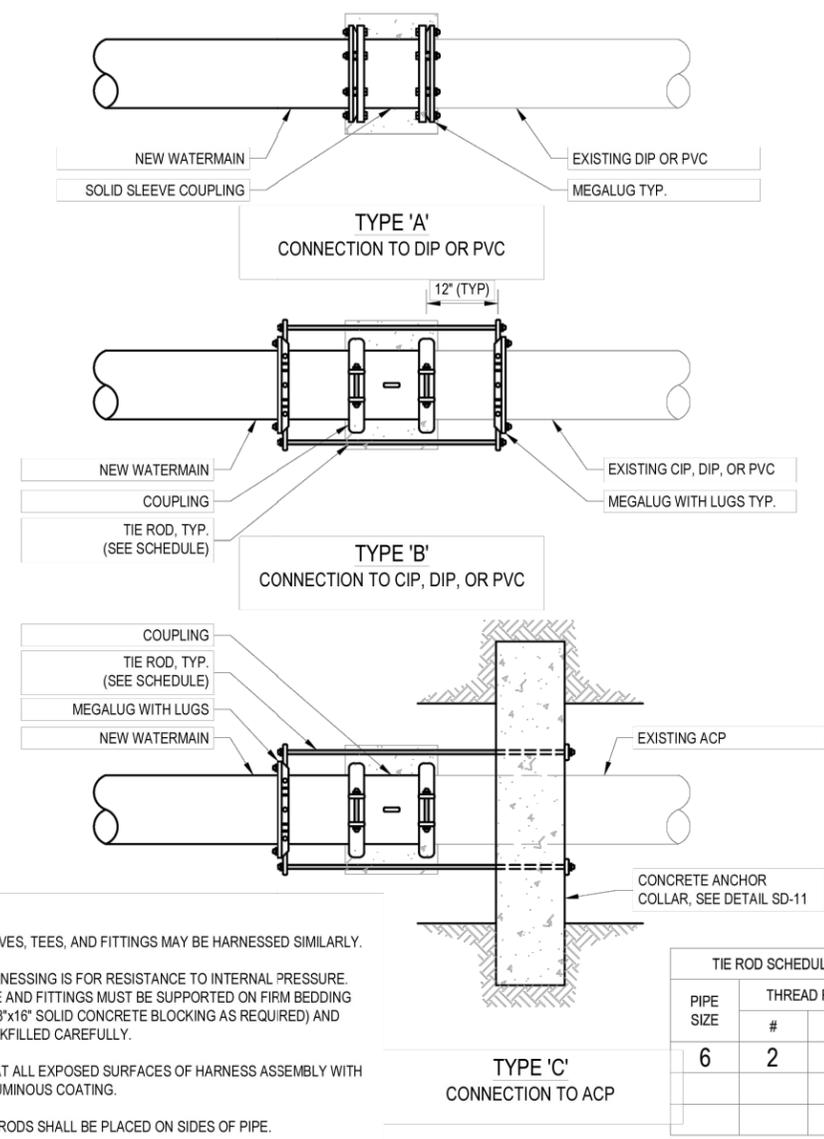


ALL UTILITIES ARE BASED ON BEST GIVEN INFORMATION AND ARE APPROXIMATE ONLY. SOME UTILITIES MAY NOT BE SHOWN. CONTRACTOR SHALL FIELD VERIFY ALL UTILITIES DURING EXCAVATION BY CONTACTING UFPO PRIOR TO PERFORMING ANY EARTHWORK.



**TYPICAL TRENCH DETAIL**  
SCALE: NTS

Revision: 2024-01  
Detail: SD-01



**TYPICAL CONNECTION TO EXISTING WATERMAIN**  
SCALE: NTS

Revision: 2024-01  
Detail: SD-08

Approved By:

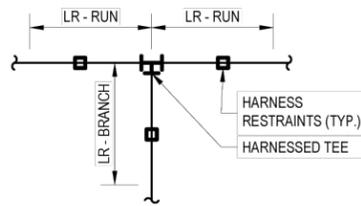


ERIE COUNTY WATER AUTHORITY  
3030 UNION RD.  
CHEEKTOWAGA, NY 14227

Project Name  
CRITTENDEN RD PRV PIT  
ECWA PN202500147  
TOWN OF NEWSTEAD  
ERIE COUNTY - NEW YORK

Name: MISCELLANEOUS DETAILS  
Date: AUGUST 2025  
Scale: AS SHOWN  
Drawn/Revised By: WWW

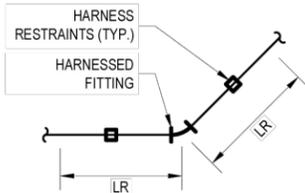
Sheet  
**W-3**  
Page: 4 of 5  
File Name: 202500147 - Crittenden PRV Design



TEE SIZE (RUN x BRANCH)	LR RUN	LR BRANCH	TEE SIZE (RUN x BRANCH)	LR RUN	LR BRANCH
8"x6"	5'	40'	12"x10"	5'	80'
8"x8"	5'	70'	12"x12"	5'	110'
10"x6"	5'	30'	16"x6"	5'	20'
10"x8"	5'	60'	16"x8"	5'	35'
10"x10"	5'	90'	16"x10"	5'	65'
12"x6"	5'	20'	16"x12"	5'	90'
12"x8"	5'	55'	16"x16"	5'	145'

**TEES**

\*LENGTHS SHOWN ARE MINIMUM REQUIREMENTS

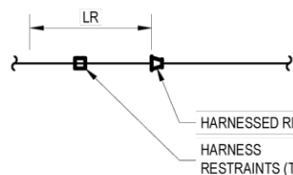


PIPE SIZE	LR			
	90° BEND	45° BEND	22.5° BEND	11.25° BEND
6"	35'	15'	10'	5'
8"	40'	20'	10'	5'
10"	55'	25'	15'	10'
12"	60'	30'	15'	10'
16"	80'	35'	20'	10'

\*LENGTHS SHOWN ARE MINIMUM REQUIREMENTS

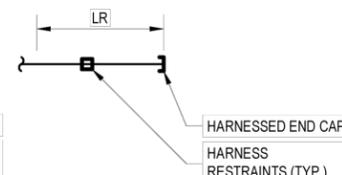
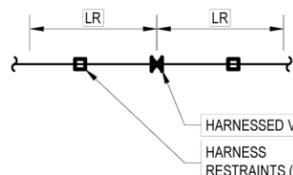
NOTE:  
BACK TO BACK FITTINGS WITHIN 5' OF EACH OTHER SHALL BE RESTRAINED AT LENGTHS OF 2 TIMES THE FITTING DEGREES (I.E. 2-45° = 90° RESTRAINT LENGTH)

**BENDS**



REDUCER SIZE	LR	REDUCER SIZE	LR
6"x4"	40'	12"x8"	75'
8"x4"	70'	12"x10"	40'
8"x6"	45'	16"x6"	150'
10"x6"	75'	16"x8"	130'
10"x8"	40'	16"x10"	105'
12"x6"	100'	16"x12"	75'

\*LENGTHS SHOWN ARE MINIMUM REQUIREMENTS



VALVE/END CAP SIZE	LR
4"	55'
6"	75'
8"	100'
10"	115'
12"	140'
16"	175'

\*LENGTHS SHOWN ARE MINIMUM REQUIREMENTS

**VALVES / END CAPS**



**RESTRAINED JOINT  
SCHEDULE**  
SCALE: NTS

Revision: 2024-01  
Detail: **SD-09**

Approved By:



Project Name  
**CRITTENDEN RD PRV PIT  
ECWA PN202500147**  
**TOWN OF NEWSTEAD  
ERIE COUNTY - NEW YORK**

Name: MISCELLANEOUS DETAILS  
Date: AUGUST 2025  
Scale: AS SHOWN  
Drawn/Revised By: WWW

Sheet  
**W-4**  
Page: 5 of 5  
File Name: 202500147 - Crittenden PRV Design

**ERIE COUNTY WATER AUTHORITY  
CONSTRUCTION AUTHORIZATION**

Project No. 202500186  
Budget No. \_\_\_\_\_

Authorization No.: EC 7522  
Date: 8/21/2025  
Inputted By/Date: \_\_\_\_\_

August 2025 Estimate Starting Date  
September 2025 Estimate Complete Date  
X yes \_\_\_\_\_ no Retirement Involved  
X Public Street  
Private Right of Way  
On Authority's Prop  
Tax Districts \_\_\_\_\_  
Name of Grantor of Easement \_\_\_\_\_  
Date of Easement \_\_\_\_\_

**TITLE OF PROJECT:** \_\_\_\_\_  
Valve Replacement at 58 Syracuse St. City of  
Tonawanda

**CLASS OF MAIN INSTALLATION:**  
X System Betterment  
Bldr/Cont/Dev. Agree.  
Owner Occupant Cont.  
Special Revenue Cont.

**DETAILED DESCRIPTION AND PURPOSE:**  
Replaced Valve G05-F37A-1G. Valve was  
broken and unrepairable.  
See CityWorks order # 159474/159489.  
Retirement # 250035

**ESTIMATE COST**

(1) Total Est. Cost \$ 5,202.47  
(2) \_\_\_\_\_ Meters and Service @ \$ \_\_\_\_\_  
(3) Removal Cost Less Salvage \$ \_\_\_\_\_  
(4) Gross Investment \$ 5,202.47

**ESTIMATED EARNINGS & RETURNS**

**ESTIMATED INCREASE IN REVENUES**

(14) Customers @ \$ \_\_\_\_\_  
\$ \_\_\_\_\_  
(15) Hydrants @ \$ \_\_\_\_\_  
\$ \_\_\_\_\_

**DEDUCT**

(5) Const. Advance \$ \_\_\_\_\_  
(6) Service Conn. \$ \_\_\_\_\_  
(7) Refunds \$ \_\_\_\_\_  
(8) Net Auth. Invest. \$ 5,202.47

**EST. SAVINGS IN OPERATING EXPENSES**

(16) \$ \_\_\_\_\_  
(17) Gross Increase in Earnings \$ \_\_\_\_\_

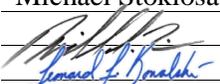
**BUDGETARY DATA**

(9) Tot. Budget Expnd. \$ \_\_\_\_\_  
(10) This Authorization \$ \_\_\_\_\_  
(11) Pre Approved \$ \_\_\_\_\_  
(12) Tot. Apvl. To Date \$ \_\_\_\_\_  
(13) Bal. Budget Expnd. \$ \_\_\_\_\_

**REVENUE DEDUCTIONS**

(18) Operating Exp. \_\_\_\_\_ % \$ \_\_\_\_\_  
(19) Depreciation \$ \_\_\_\_\_  
(20) Total Deductions \$ \_\_\_\_\_  
(21) Net Income Loss \$ \_\_\_\_\_  
(22) % Return on Investment \_\_\_\_\_  
(21) divided by 8) \_\_\_\_\_ %

**APPROVALS**

Preparation Michael Stoklosa  
Dir. of Dist.  3/5/2026  
Exec. Engr.  3/5/2026  
Admn. Director \_\_\_\_\_  
Legal Dept. \_\_\_\_\_  
Acct. Dept. \_\_\_\_\_

**RESOLUTION APPROVING**

Adopted \_\_\_\_\_  
Item No. \_\_\_\_\_

107200 007522 VALVE REPLACEMENT

G/L NO PRI NO UNIT SOURCE DESCRIPTION AMOUNT Inv Paid P/O Number P/O Description

107200 7522 VALVE REPLACEMENT Beginning Bal:  
January 2020

January 2020 Total:  
Balance:

August 2025

G/L NO	PRI	NO	UNIT	SOURCE	DESCRIPTION	AMOUNT	Inv Paid	P/O Number	P/O Description
107200		7522	P/R	W 0168	WATER UTILITY WORKER	177.72			
107200		7522	P/R	W 0168F	WATER UTILITY WORKER	17.77			
107200		7522	P/R	W 0172	LINE MAINTENANCE OPERATOR	189.78			
107200		7522	P/R	W 0172F	LINE MAINTENANCE OPERATOR	18.97			
107200		7522	P/R	W 0457	WATER UTILITY WORKER	172.14			
107200		7522	P/R	W 0457F	WATER UTILITY WORKER	17.21			
107200		7522	P/R	W 1741	CREW CHIEF (ECWA)	235.03			
107200		7522	P/R	W 1741F	CREW CHIEF (ECWA)	23.50			
107200		7522	P/T	V006	2017 KENWORTH TRUCK	167.96			
107200		7522	P/T	V043	2018 KENWORTH T370 DUMP T	271.76			
107200		7522	P/T	V046	2022 FORD F-250 SUPERCAB	65.36			
107200		7522	P/T	V062	2016 INT DUMP 7400 SBA 4X	209.48			
107200		7522	INV	0004001	COVER, VALVE BOX 5-1/4"	18.75			
107200		7522	INV	0004003	BASE, VALVE BOX	70.55			
107200		7522	INV	0004016	EXT./MIDDLE, 14": VALVE B	43.25			
107200		7522	INV	0004017	UPPER, 17": VALVE BOX	41.72			
107200		7522	INV	0007083	VALVE, RESILIENT GATE:MJ:	1,790.54			
107200		7522	INV	0012490	PVC PIPE, 8" C-900 CLASS	102.43			
107200		7522	INV	0013184	8" PVC MEGA-LUG RETAINER	180.37			
107200		7522	INV	0020602	8" HY-MAX COUPLING:8.54-9	756.41			
107200		7522	OVH	08035	OVERHEAD	499.05			

August 2025 Total: 5,069.75  
Balance: 5,069.75

November 2025

G/L NO	PRI	NO	UNIT	SOURCE	DESCRIPTION	AMOUNT	Inv Paid	P/O Number	P/O Description
107200		7522	P/R	W 0453	WATER UTILITY WORKER	108.79			
107200		7522	P/R	W 0453F	WATER UTILITY WORKER	10.87			
107200		7522	OVH	11035	OVERHEAD	13.06			

November 2025 Total: 132.72  
Balance: 5,202.47  
Activity Total: 5,202.47

WORK TO BE DONE BY  
AUTHORITY FORCES

LOCATION: 58 SYRACUSE ST  
TONAWANDA NY

JOB NO.: 7522 PLATE NO.: G05 VALVE NO.: F37A-1G

FOREMAN: S.CATANZARO DATE COMPLETED: 08/19/25

FILE NO.: TOCY-864-2501 PROJECT NO.: 202500186

WORK ORDER 159474/159489 INPUTED BY/DATE: 08/21/25 lmp  
NO.:

MATERIALS USED:  
(Indicate Make & Type of Hydrants)

MATERIALS USED:  
(Indicate Make & Type of Hydrants)

RETIREMENT: R 250035

WHY WAS WORK NECESSARY:

- \_\_\_\_\_ 1.) Hydrant Hit and Damaged  
\_\_\_\_\_ 2.) Hydrant Obsolete  
\_\_\_\_\_ 3.) Hydrant Parts Not Available  
\_\_\_\_\_ 4.) Other



### Work Order

Description: Valve Replace (VLRL)

Entity Type: WVALVE Change

WO Id: 159474

WO Address: 58 SYRACUSE ST, Tonawanda, 14150

Status: Closed Priority: High

Initiated By: BARTUS, STEVEN J Date: 08/18/2025 3:10 PM

Requested By: Supervisor: SPIER, SCOTT

Submit To: CATANZARO, SAMUEL Date: 08/18/2025 3:10 PM

Projected Start: Projected Finish:

Completed By: CATANZARO, SAMUEL

Resolution: Followup Work Not Req

Actual Start: 08/18/2025 8:00 PM Actual Finish: 08/19/2025 12:00 AM

Instructions:

Comments:

Sort ▲

BARTUS, STEVEN J UFPO=08185-002-244	08/18/2025 3:11 PM
CATANZARO, SAMUEL J replaced valve that hasn't held in years	08/19/2025 7:12 AM
HARHIGH, ANDREW J Material charged from the wrong location. Made change.	08/21/2025 7:30 AM
SPIER, SCOTT replaced valve g05 f37a 1g was broken and unrepairable	08/21/2025 8:17 AM

On Hold Reason:

Closed By: PALUCH, STEPHEN

Date: 8/19/2025 8:58:50 AM

Details

### Location Information

Cross Streets & 5.8' S/O CL SYRACUSE ST

Location Details:

City: Tonawanda

Resto Area: Area 1

Facility Id: Level Id:

X Location: -8,779,990.250 Y Location: 5,312,730.637

### Assets

Total Entities: 1

<input type="checkbox"/>	Asset	Asset ID	Location	Warranty Date	Work Completed	Feature	Feature
<input type="checkbox"/>	WVALVE	4347	5.8' S/O CL SYRACUSE ST		<input type="checkbox"/>	WVALVE	4347 0

- Pink rows indicate inventory still under warranty.



Update Work Order XY when adding/removing assets?

### Reservations

Equipment ID	Employee	Start Date	End Date	Comments
No records to display.				

### Checked Out Equipment

Equipment ID	Employee	Check Out Date	Due Date	Comments
No records to display.				

### Work Cycle

### Related Work Activities

#### Work Orders

WO Template

<input type="checkbox"/>	Id	Description	Link Type	Priority	Status	Submit To
<input type="checkbox"/>	159489	Final Restoration (Spring)	Child	3	CANCEL	ALAGNA, PAU

Open WOs

Create Child Work Order

### Permits

**ERIE COUNTY WATER AUTHORITY  
CONSTRUCTION AUTHORIZATION**

Project No. 202500255  
Budget No. \_\_\_\_\_

Authorization No.: EC 7523  
Date: 7/12/2025  
Inputted By/Date: \_\_\_\_\_

7/12/2025 Estimate Starting Date  
7/12/2025 Estimate Complete Date  
yes  no Retirement Involved  
X Public Street  
Private Right of Way  
On Authority's Prop  
Tax Districts \_\_\_\_\_  
Name of Grantor of Easement \_\_\_\_\_  
Date of Easement \_\_\_\_\_

**TITLE OF PROJECT:** \_\_\_\_\_  
Main Leak Repair at 3972 Union Rd. CHTN.

**CLASS OF MAIN INSTALLATION:**  
X System Betterment  
Bldr/Cont/Dev. Agree.  
Owner Occupant Cont.  
Special Revenue Cont.

**DETAILED DESCRIPTION AND PURPOSE:**  
Originally installed in 1943 under BO 836-E, and replaced with 30' of 20" Ductile pipe under EC 7523. Old cast iron pipe was unrepairable. Work done by ECWA forces at ECWA expense.  
See CityWorks Orders: 158393/158466/158933  
In connection with PN: 202500146

**ESTIMATE COST**

(1) Total Est. Cost \$ 409,121.38  
(2) \_\_\_\_\_ Meters and Service @ \$ \_\_\_\_\_  
(3) Removal Cost Less Salvage \$ \_\_\_\_\_  
(4) Gross Investment \$ 409,121.38

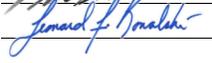
**DEDUCT**

(5) Const. Advance \$ \_\_\_\_\_  
(6) Service Conn. \$ \_\_\_\_\_  
(7) Refunds \$ \_\_\_\_\_  
(8) Net Auth. Invest. \$ 409,121.38

**BUDGETARY DATA**

(9) Tot. Budget Expnd. \$ \_\_\_\_\_  
(10) This Authorization \$ \_\_\_\_\_  
(11) Pre Approved \$ \_\_\_\_\_  
(12) Tot. Apvl. To Date \$ \_\_\_\_\_  
(13) Bal. Budget Expnd. \$ \_\_\_\_\_

**APPROVALS**

Preparation Michael Stoklosa  
Dir. of Dist.  2/27/2026  
Exec. Engr.  3/5/2026  
Admn. Director \_\_\_\_\_  
Legal Dept. \_\_\_\_\_  
Acct. Dept. \_\_\_\_\_

**ESTIMATED EARNINGS & RETURNS**

**ESTIMATED INCREASE IN REVENUES**

(14) \_\_\_\_\_ Customers @ \$ \_\_\_\_\_  
\$ \_\_\_\_\_  
(15) \_\_\_\_\_ Hydrants @ \$ \_\_\_\_\_  
\$ \_\_\_\_\_

**EST. SAVINGS IN OPERATING EXPENSES**

(16) \_\_\_\_\_ \$ \_\_\_\_\_  
(17) Gross Increase in Earnings \$ \_\_\_\_\_

**REVENUE DEDUCTIONS**

(18) Operating Exp. \_\_\_\_\_ % \$ \_\_\_\_\_  
(19) Depreciation \$ \_\_\_\_\_  
(20) Total Deductions \$ \_\_\_\_\_  
(21) Net Income Loss \$ \_\_\_\_\_  
(22) % Return on Investment \_\_\_\_\_  
(21) divided by 8) \_\_\_\_\_ %

**RESOLUTION APPROVING**

Adopted \_\_\_\_\_  
Item No. \_\_\_\_\_



# ERIE COUNTY WATER AUTHORITY

## INTEROFFICE MEMORANDUM

October 3, 2025

To: Jerome D. Schad, Chair  
Peggy A. LaGree, Vice Chair  
Michele M. Iannello, Treasurer

From: Leonard F. Kowalski, PE, Executive Engineer *LFK*

Subject: Emergency Declaration  
Union Road, Town of Cheektowaga  
PN 202500146

---

On July 11, 2025, Declaration of State of Emergency was issued for ECWA Direct Service 20-inch water main that failed near the intersection of Union Road and George Urban Boulevard (Town of Cheektowaga) at approximately 5:30 pm on July 10, 2025. The failure was found within the north bound lanes of Union Road beneath a large drainage flume (approximately 15-foot width). Several sections of pipe and fittings required removal and replacement. An additional main valve was installed to reduce the number of customers out-of-service. Due to the location and magnitude of the break, the repair required the mobilization of a number of contractors over and above ECWA staff as well as specialized equipment and materials. The repair was completed and the intersection reopened to traffic on July 13<sup>th</sup>.

This Declaration of the State of Emergency is reported to the Board of Commissioners according to ECWA Procurement Policy adopted and approved on April 29, 2024; amended, re-adopted and re-approved on April 17, 2025 (Article 10, Emergency Purchases).

Note, according to the policy, "all purchases under a Declaration of Emergency must be made with thirty (30) days of the Declaration of Emergency", however due to the need to allow the excavation backfill to settle and stabilize, prior to final restoration, the project will not be completed until the end of October 2025 thus requiring an extension of the Declaration of Emergency.

LFK:MJQ:jmf  
cc: CHTN-900-2501



## On Call Repair Work Summary Sheet

MCI JOB #: 21-1061

Project No. : 202100064

Date of Work: 7-10-7-14

Location: Union & George Verbeke

ECWA Work Order #: 158393

Item	Description	Quantity	Unit
1A1	Gas Powered 100 c.f.m. Air Compressor & Accessories		HRS
1A2	Light to Heavy Duty Pavement Breaker, with Accessories		HRS
1A3	Gas/Centrifugal/Piston Pump w/Hose, 2" to 4" Discharge		HRS
1A4	Gas/Centrifugal/Piston Pump w/Hose, 6" Discharge		HRS
1A5	Gas Powered, Ram or Vibrating Compacting Equipment		HRS
1A6	6 to 20 ton Capacity Equipment Trailer with Accessories		HRS
1A7	1 to 10 ton Six Wheeler, Dump Truck with Accessories		HRS
1A8	Gas/Diesel, 3/8 to 1 yard, Front End Loader &/or Backhoe		HRS
1A9	Shoring Box, Exceeding 6' depth Excavations	15	HRS
1B1	Gas/Diesel, 5/8 to 1 yard, Crawler Backhoe 22' or Deeper		HRS
1B2	Gas/Diesel, 1.25 to 3 yard Crawler Backhoe 22' or Deeper	77	HRS
1B3	Gas/Diesel, Power Drive, Bulldozer, Drawbar H.P. 45-59		HRS
1B4	1 ton and up Tool/Equipment Truck, Compartment with Tools		HRS
1B5	Pavement Cutter with 84" Wheel		HRS
1B6	Gas/Diesel 1.25 to 3 yard, Wheel Tractor, Front End Loader , with operator		HRS
1B7a	11 to 20 ton, 10 Wheeler, Rear Dump Truck with Operator, with operator - Standard Rate		HRS
1B7b	12 to 20 ton, 10 Wheeler, Rear Dump Truck with Operator, with operator - Premium Rate		HRS
1B8	Hydraulic Compactor for Backhoe Mounting		HRS
1B9	Combination Truck, with high pressure water jetting & high flow vacuum		HRS
1B10a	Weldng equipment, materials, and welder - Standard Rate		HRS
1B10b	Weldng equipment, materials, and welder - Premium Rate		HRS
2A1a	Skilled Labor - Standard Rate	18	HRS
2A1b	Skilled Labor - Premium Rate	59	HRS
2A2a	Supplemental Basic Labor - Standard Rate	10	HRS
2A2b	Supplemental Basic Labor - Premium Rate	31	HRS
2A3a	Pipeline Maintenance Mechanic - Standard Rate		HRS
2A3b	Pipeline Maintenance Mechanic - Premium Rate		HRS
2B1a	Repair Crew and Equipment - Standard Rate	10	HRS
2B1b	Repair Crew and Equipment - Premium	32	HRS
2C1a	Thawing Crew and Equipment - Standard Rate		HRS
2C1b	Thawing Crew and Equipment - Premium		HRS
3A	Lowering and Replacing 3/4" & 1" Frozen Services		LF
3B	Lowering and Replacing 1.5" & 2" Frozen Services		LF
4A	3/4" & 1" Service Replacement		EA
4B	1.5" & 2" Service Replacement		EA
4C	3/4" to 2" Copper Tubing beyond 10 feet		LF
5A	Removal of 18" diameter and smaller trees		EA
5B	Removal of 19" to 23" diameter trees		EA
5C	Removal of 24" and larger diameter trees		EA
6A1	Furnishing and Installing Select Backfill		CY
6B1	Furnishing and Installing Lean Concrete	16	CY
6C1	Installing Hot Mix Asphalt or Cold Patch Asphalt, depth=2"		SF
7	Cash Allowance for MP&T		LS
8	Contingency Allowance	\$5675	LS

Material / Contingency Item Notes: \_\_\_\_\_

ECWA Inspector: \_\_\_\_\_

Date: 7-14-15

MCI Foreman: \_\_\_\_\_

Date: 7-24-25



Site ready...earth friendly

3710 MILESTRIP ROAD | BLASDELL, NY 14219  
716.844.8745 | FAX: 716.931.9071

russodevelopmentinc.com

Work outside of Contract - Labor					
Date	Description/Job	Vendor/Employee/Equipment	Cost	Rate	Total
<b>MOBILIZE/DEMobilize (Lowboy)</b>					
07/10/2025	0.50 Reg Hrs	11 Jeffrey Silis - Labor Straight Time Mob	\$ 26.47	\$ 52.94	\$ 26.47
07/10/2025	0.25 Ovt Hrs	158 Bryan Ingelman - Labor Overtime	\$ 17.17	\$ 68.68	\$ 17.17
07/10/2025	1.50 Reg Hrs	158 Bryan Ingelman - Operator Straight Time	\$ 141.31	\$ 94.21	\$ 141.31
07/10/2025	0.50 Ovt Hrs	219 Jonathan Seymour - Operator Overtime Mob	\$ 54.02	\$ 108.04	\$ 54.02
07/11/2025	0.50 Reg Hrs	11 Jeffrey Silis - Labor Straight Time Mob	\$ 26.47	\$ 52.94	\$ 26.47
07/11/2025	1.50 Reg Hrs	158 Bryan Ingelman - Operator Straight Time	\$ 141.31	\$ 94.21	\$ 141.31
07/11/2025	1.50 Reg Hrs	232 Cameron Barrett - Labor Straight Time	\$ 45.87	\$ 30.58	\$ 45.87
07/13/2025	13.00 Pre Hrs (Sunday)	158 Bryan Ingelman - Labor Double Time	\$ 1,756.32	\$ 135.10	\$ 1,756.32
<b>ASPHALT - Removals, sawcut, hauling offsite</b>					
07/10/2025	3.00 Ovt Hrs	11 Jeffrey Silis - Operator Overtime	\$ 376.51	\$ 125.50	\$ 376.51
07/10/2025	8.50 Ovt Hrs	219 Jonathan Seymour - Labor Overtime	\$ 786.69	\$ 92.55	\$ 786.69
07/10/2025	1.00 Reg Hrs	258 Charles Corwin - Dump Truck Straight Time	\$ 35.69	\$ 35.69	\$ 35.69
07/10/2025	8.75 Ovt Hrs	246 Tra' Bargy - Labor Overtime	\$ 792.12	\$ 90.53	\$ 792.12
07/10/2025	1.75 Ovt Hrs	258 Charles Corwin - Dump Truck Overtime	\$ 89.37	\$ 51.07	\$ 89.37
07/10/2025	9.50 Ovt Hrs	260 Darrell Darling - Operator Overtime	\$ 1,286.10	\$ 135.38	\$ 1,286.10
07/10/2025	5.50 Ovt Hrs	275 Wayne Bonnett - Labor Overtime	\$ 525.23	\$ 95.50	\$ 525.23
07/10/2025	0.75 Ovt Hrs	275 Wayne Bonnett - Dump Truck Overtime	\$ 43.33	\$ 57.77	\$ 43.33
07/10/2025	9.00 Ovt Hrs	291 Scott Howie Jr - Labor Over Time	\$ 872.15	\$ 96.91	\$ 872.15
07/11/2025	8.00 Reg Hrs	11 Jeffrey Silis - Operator Straight Time	\$ 693.30	\$ 86.66	\$ 693.30
07/11/2025	7.00 Ovt Hrs	11 Jeffrey Silis - Operator Overtime	\$ 867.00	\$ 123.86	\$ 867.00
07/11/2025	2.00 Reg Hrs	158 Bryan Ingelman - Labor Straight Time	\$ 157.78	\$ 78.89	\$ 157.78
07/11/2025	6.00 Reg Hrs	158 Bryan Ingelman - Operator Straight Time	\$ 596.55	\$ 99.43	\$ 596.55
07/11/2025	3.00 Reg Hrs	219 Jonathan Seymour - Labor Straight Time	\$ 192.30	\$ 64.10	\$ 192.30
07/11/2025	5.00 Reg Hrs	219 Jonathan Seymour - Operator Straight Time	\$ 392.92	\$ 78.58	\$ 392.92
07/11/2025	7.75 Ovt Hrs	219 Jonathan Seymour - Labor Overtime	\$ 717.28	\$ 92.55	\$ 717.28
07/11/2025	8.00 Reg Hrs	246 Tra' Bargy - Labor Straight Time	\$ 501.81	\$ 62.73	\$ 501.81
07/11/2025	4.50 Reg Hrs	226 Devin Pazzuti - Dump Truck Straight Time	\$ 232.73	\$ 51.72	\$ 232.73
07/11/2025	4.50 Ovt Hrs	226 Devin Pazzuti - Laborer Overtime	\$ 325.07	\$ 72.24	\$ 325.07
07/11/2025	9.00 Ovt Hrs	246 Tra' Bargy - Labor Overtime	\$ 814.75	\$ 90.53	\$ 814.75
07/11/2025	7.00 Ovt Hrs	246 Tra' Bargy - Operator Overtime	\$ 906.87	\$ 129.55	\$ 906.87
07/11/2025	15.25 Ovt Hrs	258 Charles Corwin - Dump Truck Over Time	\$ 791.09	\$ 51.87	\$ 791.09
07/11/2025	8.00 Reg Hrs	260 Darrell Darling - Operator Straight Time	\$ 641.14	\$ 80.14	\$ 641.14
07/11/2025	7.25 Ovt Hrs	260 Darrell Darling - Operator Overtime	\$ 981.50	\$ 135.38	\$ 981.50
07/11/2025	15.50 Ovt Hrs	275 Wayne Bonnett - Dump Truck Over Time	\$ 895.52	\$ 57.78	\$ 895.52
07/11/2025	3.00 Reg Hrs	291 Scott Howie Jr - Labor Straight Time	\$ 201.12	\$ 67.04	\$ 201.12
07/11/2025	5.00 Reg Hrs	291 Scott Howie Jr - Operator Straight Time	\$ 410.10	\$ 82.02	\$ 410.10
07/11/2025	7.50 Ovt Hrs	291 Scott Howie Jr - Labor Overtime	\$ 726.80	\$ 96.91	\$ 726.80
07/12/2025	6.50 Ovt Hrs	11 Jeffrey Silis - Operator Overtime	\$ 805.07	\$ 123.86	\$ 805.07
07/12/2025	17.50 Ovt Hrs	158 Bryan Ingelman - Dump Truck Overtime	\$ 1,084.24	\$ 61.96	\$ 1,084.24
07/12/2025	4.00 Ovt Hrs	179 Brandon Ellis - Operator Overtime	\$ 393.63	\$ 98.41	\$ 393.63
07/12/2025	4.00 Ovt Hrs	211 Tucker Grimm - Operator Overtime	\$ 404.33	\$ 101.08	\$ 404.33
07/12/2025	8.50 Ovt Hrs	211 Tucker Grimm - Labor Overtime	\$ 670.00	\$ 78.82	\$ 670.00
07/12/2025	3.50 Ovt Hrs	219 Jonathan Seymour - Labor Overtime	\$ 323.94	\$ 92.55	\$ 323.94
07/12/2025	4.00 Ovt Hrs	219 Jonathan Seymour - Operator Overtime	\$ 432.12	\$ 108.03	\$ 432.12
07/12/2025	3.00 Ovt Hrs	226 Devin Pazzuti - Dump Truck Over Time	\$ 216.71	\$ 72.24	\$ 216.71
07/12/2025	3.00 Ovt Hrs	226 Devin Pazzuti - Operator Overtime	\$ 288.14	\$ 96.05	\$ 288.14
07/12/2025	6.75 Ovt Hrs	246 Tra' Bargy - Dump Truck Over Time	\$ 737.39	\$ 109.24	\$ 737.39
07/12/2025	3.50 Ovt Hrs	248 Mason Compise - Labor Overtime	\$ 252.60	\$ 72.17	\$ 252.60
07/12/2025	3.00 Ovt Hrs	248 Mason Compise - Operator Overtime	\$ 308.87	\$ 102.96	\$ 308.87
07/12/2025	17.50 Ovt Hrs	258 Charles Corwin - Dump Truck Over Time	\$ 894.07	\$ 51.09	\$ 894.07
07/12/2025	4.75 Ovt Hrs	275 Wayne Bonnett - Dump Truck Over Time	\$ 274.43	\$ 57.77	\$ 274.43
07/12/2025	6.50 Ovt Hrs	288 Maxwell Haney - Labor Overtime	\$ 621.60	\$ 95.63	\$ 621.60
07/13/2025	7 Pre Hrs (Sunday)	179 Brandon Ellis - Operator Double Time	\$ 1,143.87	\$ 163.41	\$ 1,143.87
07/13/2025	1 Pre Hrs(Sunday)	219 Jonathan Seymour - Labor Double Time	\$ 116.53	\$ 116.53	\$ 116.53
07/13/2025	1 Pre Hrs(Sunday)	260 Darrell Darling - Operator Double Time	\$ 163.44	\$ 163.44	\$ 163.44
07/13/2025	1 Pre Hrs(Sunday)	291 Scott Howie Jr - Labor Double Time	\$ 114.03	\$ 114.03	\$ 114.03
07/13/2025	7 Pre Hrs(Sunday)	Tucker Grimm - Operator Double Time	\$ 1,143.87	\$ 163.41	\$ 1,143.87
07/13/2025	7 Pre Hrs(Sunday)	Mason Compise - Labor Double Time	\$ 798.21	\$ 114.03	\$ 798.21
07/13/2025	7 Pre Hrs(Sunday)	Max Haney - Labor Double Time	\$ 798.21	\$ 114.03	\$ 798.21
		<b>LABOR TOTAL:</b>			<b>\$30,047.06</b>
		<b>15% Mark up</b>			<b>\$ 4,507.06</b>
		<b>TOTAL</b>			<b>\$34,554.12</b>

ASPHALT - Removals, sawcut, hauling offsite - Equipment			
Equipment	Hours	Rate	Total
Lowboy - 18	12.5	\$ 150.00	\$ 1,875.00
Excavator - PC-88	3	\$ 118.00	\$ 354.00
Excavator - PC200 - 10286	42.5	\$ 202.00	\$ 8,585.00
Vermeer Saw - 30103	12	\$ 248.00	\$ 2,976.00
Plate Tamper	3	\$ 25.00	\$ 75.00
Roller - 30164	3	\$ 33.00	\$ 99.00
Tool Van - 30011	14.5	\$ 50.00	\$ 725.00
Compact Track Loader	4	\$ 80.00	\$ 320.00
Compact Track Loader	3	\$ 80.00	\$ 240.00
Dump Truck - 30167	48	\$ 90.00	\$ 4,320.00
Dump Truck - 10200	32.25	\$ 90.00	\$ 2,902.50
Dump Truck 055	3	\$ 90.00	\$ 270.00
Dump Truck - 30123	12	\$ 90.00	\$ 1,080.00
Dump Truck - 10218	15.75	\$ 90.00	\$ 1,417.50
Dump Truck - 10116	5.5	\$ 90.00	\$ 495.00
Light Plant	10	\$ 15.00	\$ 150.00
		<b>EQUIPMENT TOTAL</b>	<b>\$ 25,884.00</b>
		<b>15% Markup</b>	<b>\$ 3,882.60</b>
		<b>EQUIPMENT TOTAL</b>	<b>\$ 29,766.60</b>

**Total outside of contract work: \$ 64,320.72**

4A2: Material Allowance	
Temporary Striping	LS \$ 2,000.00
Tack Coat: 10202 SF, 5 lifts	LS \$ 566.80
Gernatt : Open Plant on Sunday Charge	LS \$ 5,850.00
	<b>TOTAL \$ 7,850.00</b>
	<b>15% Markup \$ 1,177.50</b>
	<b>TOTAL \$ 9,027.50</b>

Emergency Completed  
7/10/25 - 7/14/25

# Restoration Materials

Area 2

WO ID: 158466 Address: 3972 Union Rd CHTN

- Material
- LCD(20-11-04)-A1 1A Pavement of 2" Top and 6" Binder
- LCD(20-11-04)-A1 1B Pavement of 6" Base
- LCD(20-11-04)-A1 1C Driveway & Sidewalk 1" Top & 3" Binder
- LCD(20-11-04)-A1 1D Curb of 3" Top
- LCD(20-11-04)-A1 1E Top per 1" of Depth (FMUP==2/SY)
- LCD(20-11-04)-A1 1F Binder per 1" of Depth (FMUP==2/SY)
- LCD(20-11-04)-A1 1G Concrete Pavement Base
- LCD(20-11-04)-A1 1H Coldpatch per 3" Depth
- LCD(20-11-04)-A1 11-1 Cold Milling @ 1-2" of Depth < 25SY
- LCD(20-11-04)-A1 11-2 Cold Milling, Ea Add 1" > 2" < 25SY
- LCD(20-11-04)-A1 11-3 Cold Milling @ 1-2" of Depth > 25SY
- LCD(20-11-04)-A1 11-4 Cold Milling, Ea Add 1" > 2" > 25SY
- LCD(20-11-04)-A1 1J Inductance Loop Install (FMUP==15/LF)
- LCD(20-11-04)-A1 2A Grading, Topsoil & Seeding (FMUP=.25/SF)
- LCD(20-11-04)-A1 2B Topsoil & Sod (FMUP==2/SF)
- LCD(20-11-04)-A1 2C-1 Topsoil & Hydroseed
- LCD(20-11-04)-A1 2C-2 Hydroseed Only
- LCD(20-11-04)-A1 2D Topsoil (FMUP==10/CY)
- LCD(20-11-04)-A1 2E Deciduous Trees 4-4.5' Caliper (Balled)
- LCD(20-11-04)-A1 2F Evergreen Trees 5-6' Tall (Balled)
- LCD(20-11-04)-A1 2G Repair Damaged Trees, Pruning, Wrapping
- LCD(20-11-04)-A1 2H Deciduous Shrubs 3-4' Tall (Bare Root)
- LCD(20-11-04)-A1 2I Evergreen Shrubs 2.5-4' Tall (Balled)
- LCD(20-11-04)-A1 2J Fertilizing Existing Trees
- LCD(20-11-04)-A1 2K Additional Spoils Materials Removal
- LCD(20-11-04)-A1 2L Rough Dirt Fill (FMUP=2/SY)
- LCD(20-11-04)-A1 3A Pavement of 8" Thickness
- LCD(20-11-04)-A1 3B Sidewalk 4" Thick, Driveway 6" Thick
- LCD(20-11-04)-A1 3C Gutter Curb
- LCD(20-11-04)-A1 30 Integral Curb
- LCD(20-11-04)-A1 3E Welded Wire Fabric
- LCD(20-11-04)-A1 3F Reinforcing Deformed Steel Bars
- LCD(20-11-04)-A1 3G Crushed Stone (FMUP=20/CY)
- LCD(20-11-04)-A1 3H Inductance Loop Install (FMUP=15/LF)
- LCD(20-11-04)-A1 3I Fibers for Concrete Reinforcement
- LCD(20-11-04)-A1 4A-1 Crew & Equipment (FMUP=100/Hr)
- LCD(20-11-04)-A1 4A-2 Material Allowance
- LCD(20-11-04)-A1 5A Asphalt Sealant (FMUP=.50/SY)
- LCD(20-11-04)-A1 6 Maint and Protect of Traffic

- Units
- Dimensions
- Quantity
- SY
- SY 23'X15', 166'X50', 50'X42' = 1,193.88
- SY Road SY
- SY
- SY
- SY 60'X11'(4") 23'X15'(7")
- CY Driveway/ 166'X50'(7")
- SY Sidewalk 42'X50'(7") 8,650.55
- SY Road SY
- SY
- SY
- SY
- SY
- LF
- SF
- SF
- SF
- SF
- CY
- EA See attached Russo
- EA Payroll & notes pertaining
- EA extra work performed
- EA
- EA
- EA
- EA
- CY
- CY
- CY
- CY
- LF Total Labor = \$30,047.06
- SY Total Equipment = \$25,884.00
- LB
- CY
- LF
- CY Total Material = 7,850.00
- : HR
- : EA
- SY
- : EA

  
APPROVED AUG 19 2025

Total Labor = \$30,047.06  
Total Equipment = \$25,884.00  
Total Material = 7,850.00

**ERIE COUNTY WATER AUTHORITY  
CONSTRUCTION AUTHORIZATION**

Project No. 202500082  
Budget No. \_\_\_\_\_

Authorization No.: EC7540  
Date: 10/29/2025  
Inputted By/Date: mes: 10/29/25

April 2025 Estimate Starting Date  
December 2025 Estimate Complete Date  
yes X no Retirement Involved  
X Public Street  
Private Right of Way  
On Authority's Prop  
Tax Districts \_\_\_\_\_  
Name of Grantor of Easement \_\_\_\_\_  
Date of Easement \_\_\_\_\_

**TITLE OF PROJECT:** Install a public fire hydrant at 669 South Youngs Rd. for the Town of Amherst.

**DETAILED DESCRIPTION AND PURPOSE:**  
Install a public fire hydrant to 699 South Youngs Rd. in the Town of Amherst to provide fire protection due to insufficient hydrant spacing.

**CLASS OF MAIN INSTALLATION:**  
\_\_\_\_\_  
System Betterment  
\_\_\_\_\_  
Bldr/Cont/Dev. Agree.  
\_\_\_\_\_  
Owner Occupant Cont.  
\_\_\_\_\_  
Special Revenue Cont.

**ESTIMATE COST**

(1) Total Est. Cost \$ 9,157.70  
(2) \_\_\_\_\_ Meters and Service @ \_\_\_\_\_ \$ \_\_\_\_\_  
(3) Removal Cost Less Salvage \$ \_\_\_\_\_  
(4) Gross Investment \$ 9,157.70

**DEDUCT**

(5) Const. Advance \$ 0  
(6) Service Conn. \$ \_\_\_\_\_  
(7) Refunds \$ \_\_\_\_\_  
(8) Net Auth. Invest. \$ 9,157.70

**BUDGETARY DATA**

(9) Tot. Budget Expnd. \$ \_\_\_\_\_  
(10) This Authorization \$ \_\_\_\_\_  
(11) Pre Approved \$ \_\_\_\_\_  
(12) Tot. Apvl. To Date \$ \_\_\_\_\_  
(13) Bal. Budget Expnd. \$ \_\_\_\_\_

**APPROVALS**

Preparation Michael Stoklosa  
Dir. of Dist. [Signature] 2/27/2026  
Exec. Engr. [Signature] 3/4/2026  
Admn. Director \_\_\_\_\_  
Legal Dept. \_\_\_\_\_  
Acct. Dept. \_\_\_\_\_

**ESTIMATED EARNINGS & RETURNS**

**ESTIMATED INCREASE IN REVENUES**

(14) \_\_\_\_\_ Customers @ \$ \_\_\_\_\_  
\_\_\_\_\_ \$ \_\_\_\_\_  
(15) \_\_\_\_\_ Hydrants @ \$ \_\_\_\_\_  
\_\_\_\_\_ \$ \_\_\_\_\_

**EST. SAVINGS IN OPERATING EXPENSES**

(16) \_\_\_\_\_ \$ \_\_\_\_\_  
(17) Gross Increase in Earnings \$ \_\_\_\_\_

**REVENUE DEDUCTIONS**

(18) Operating Exp. \_\_\_\_\_ % \$ \_\_\_\_\_  
(19) Depreciation \$ \_\_\_\_\_  
(20) Total Deductions \$ \_\_\_\_\_  
(21) Net Income Loss \$ \_\_\_\_\_  
(22) % Return on Investment \_\_\_\_\_  
(21) divided by 8) \_\_\_\_\_ %

**RESOLUTION APPROVING**

Adopted \_\_\_\_\_  
Item No. \_\_\_\_\_

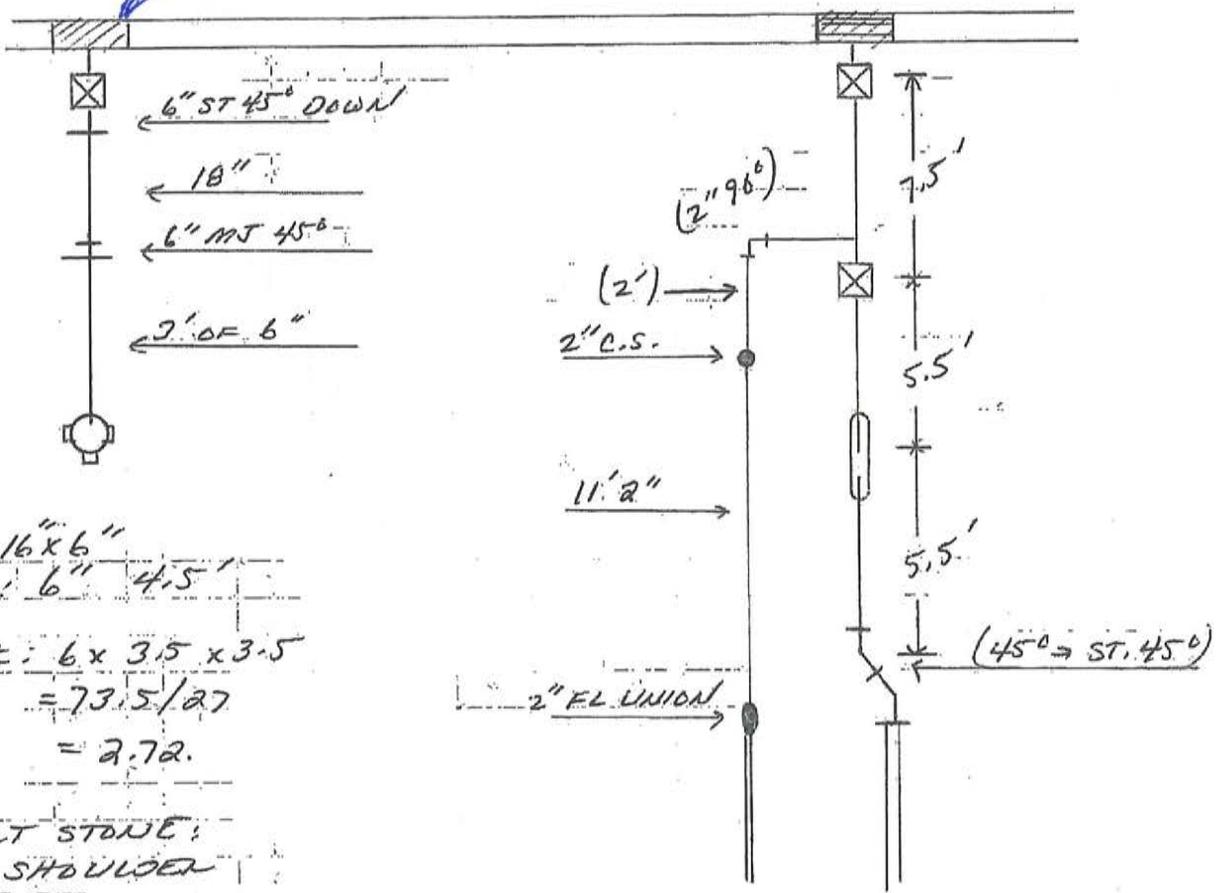
# KANDEY CO. INC.

19 Ransier Drive  
 West Seneca, New York 14224  
 PHONE: (716) 675-7245 • FAX: (716) 675-4957  
 www.KandeyCompany.com

JOB NAME: 699 Youngs Rd.  
 JOB/EST. # \_\_\_\_\_ DATE: 12/17/25  
 LOCATION: Amherst  
 DRAWN BY: BLAYWILG SCALE: N/A  
 SYSTEM \_\_\_\_\_ SKETCH NO. K2550-7

Project # 202500069

Project # 202500082



TAP: 16x6"  
 PIPE: 6" 4.5'  
 ROCK: 6 x 3.5 x 3.5  
 = 73.5/27  
 = 2.72.

SELECT STONE:  
 ROAD SHOULDER  
 5cy

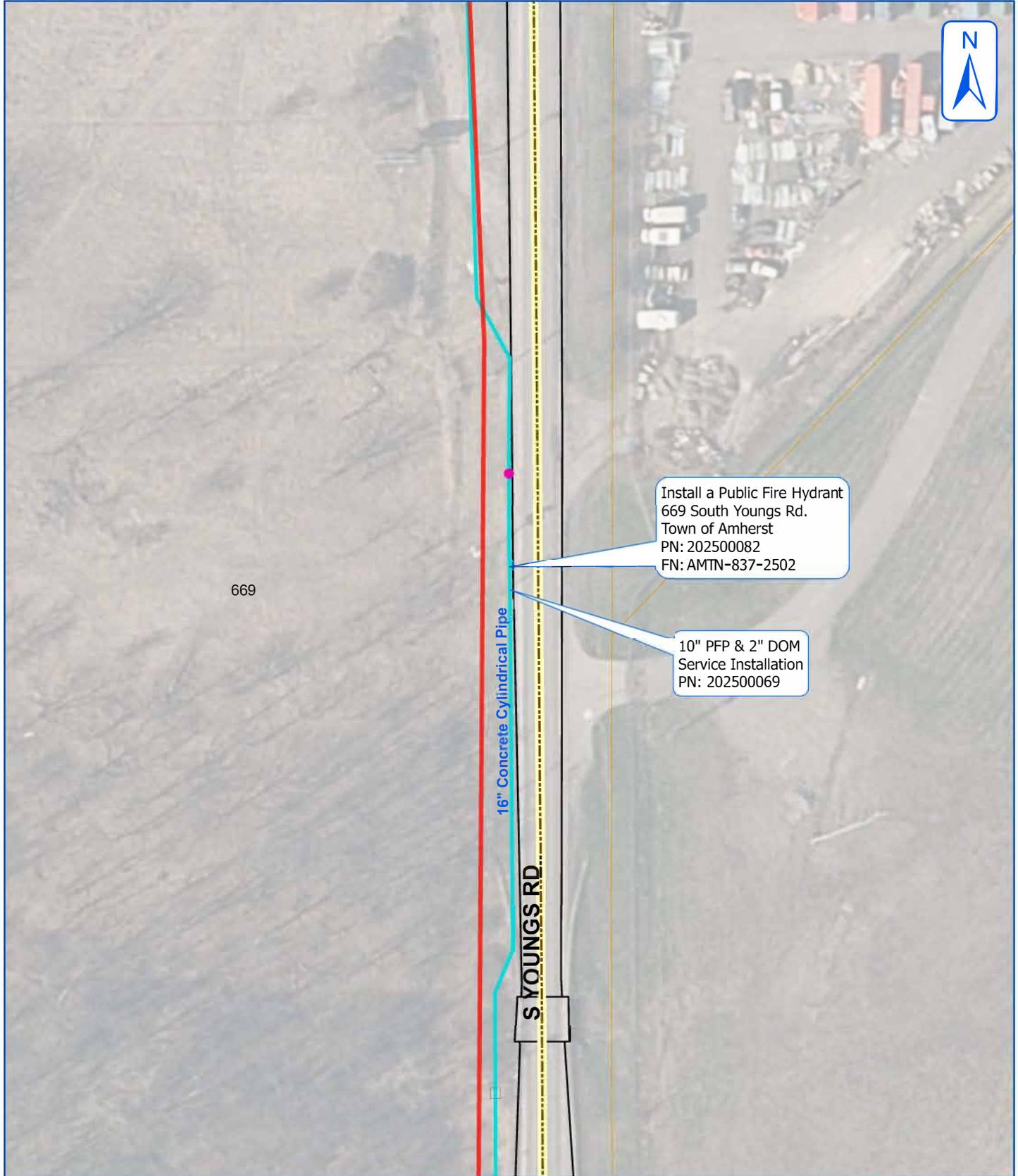
TAP: 16x10 PCCP  
 TOTAL PIPE: 10" 18.5'  
 2" 13'  
 ROCK: 16 x 3.5 x 3.5  
 = 196/27  
 = 7.26cy

SELECT: -  
 SHOULDER OF THE ROAD (9cy)

PROJECT NUMBER: 202500082  
EC/OWIP NUMBER: 107200-7540  
PROJECT DISCRIPTION: Fire Hydrant Installation - 699 South Youngs Road

<i>BID ITEM #</i>	<i>EST. QUANTITY</i>	<i>UNIT</i>	<i>UNIT COST</i>	<i>MEASURED QUANTITY</i>	<i>AMOUNT</i>
1A1		LF	\$95.00	4	\$380.00
3A3		EA	\$5,300.00	1	\$5,300.00
4A1		EA	\$1,700.00	1	\$1,700.00
5A1		EA	\$280.00	2	\$560.00
7A1		CY	\$350.00	2.22	\$777.00
8A1		CY	\$65.00	5	\$325.00
					\$9,042.00





669

16" Concrete Cylindrical Pipe

S. YOUNGS RD.

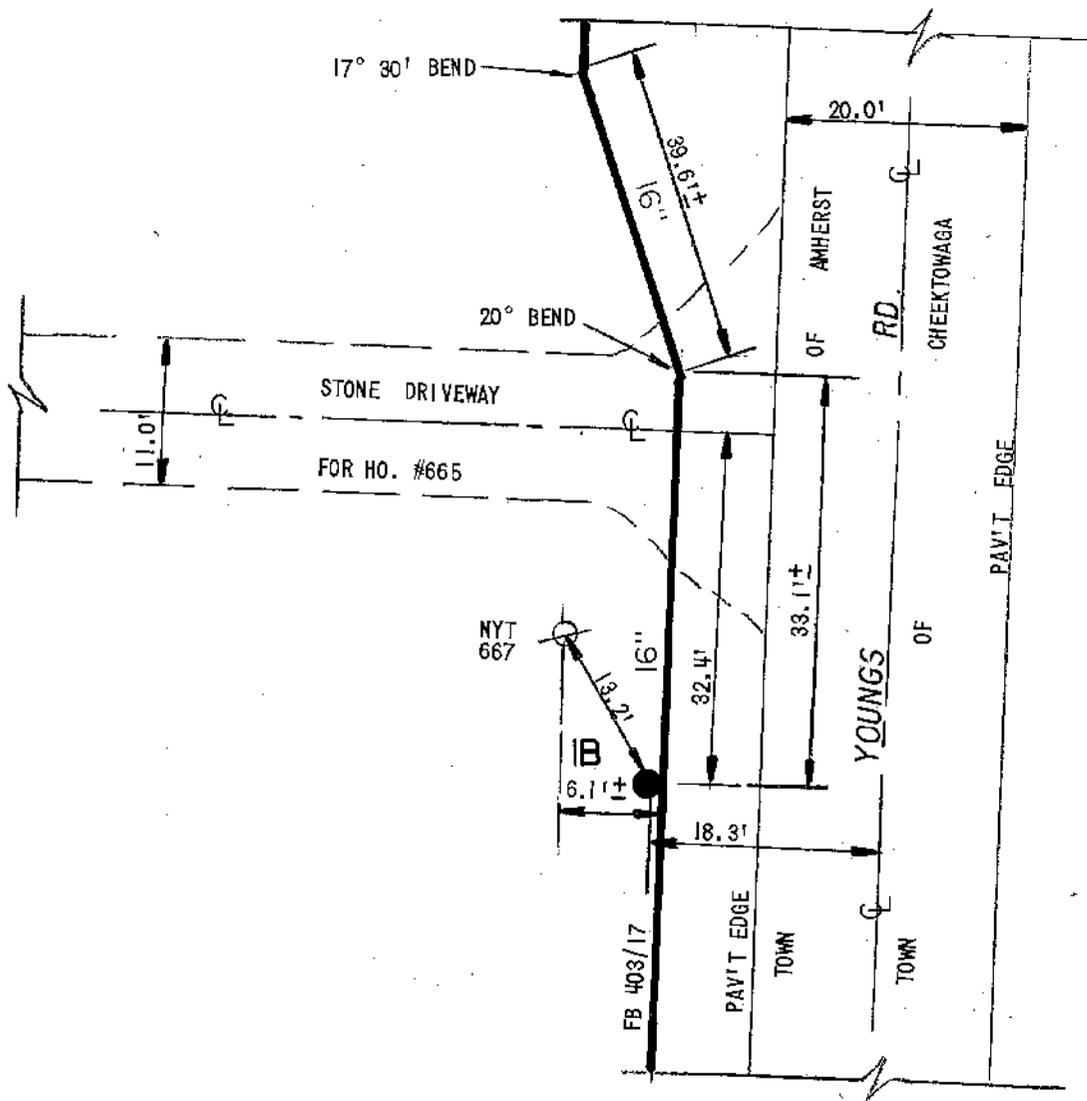
Install a Public Fire Hydrant  
669 South Youngs Rd.  
Town of Amherst  
PN: 202500082  
FN: AMTN-837-2502

10" PFP & 2" DOM  
Service Installation  
PN: 202500069

**669 South Youngs Rd.  
Town of Amherst**



Erie County Water Authority  
Buffalo, New York



DWG. 10-4-30  
FB 403/17

**EC** **ERIE COUNTY**  
**WA** **WATER AUTHORITY**  
BUFFALO, NEW YORK

REVISED DR. BY: JS  
DATE: 9-2-94  
NOT TO SCALE

TOWN OF AMHERST  
E.C.W.A.

K08-C54A

DETAIL SHEET NO.



**ERIE COUNTY**  
**WATER AUTHORITY**  
 BUFFALO, NEW YORK

DR. *ECK*  
 DATE: 4/9/25  
 OFFICE

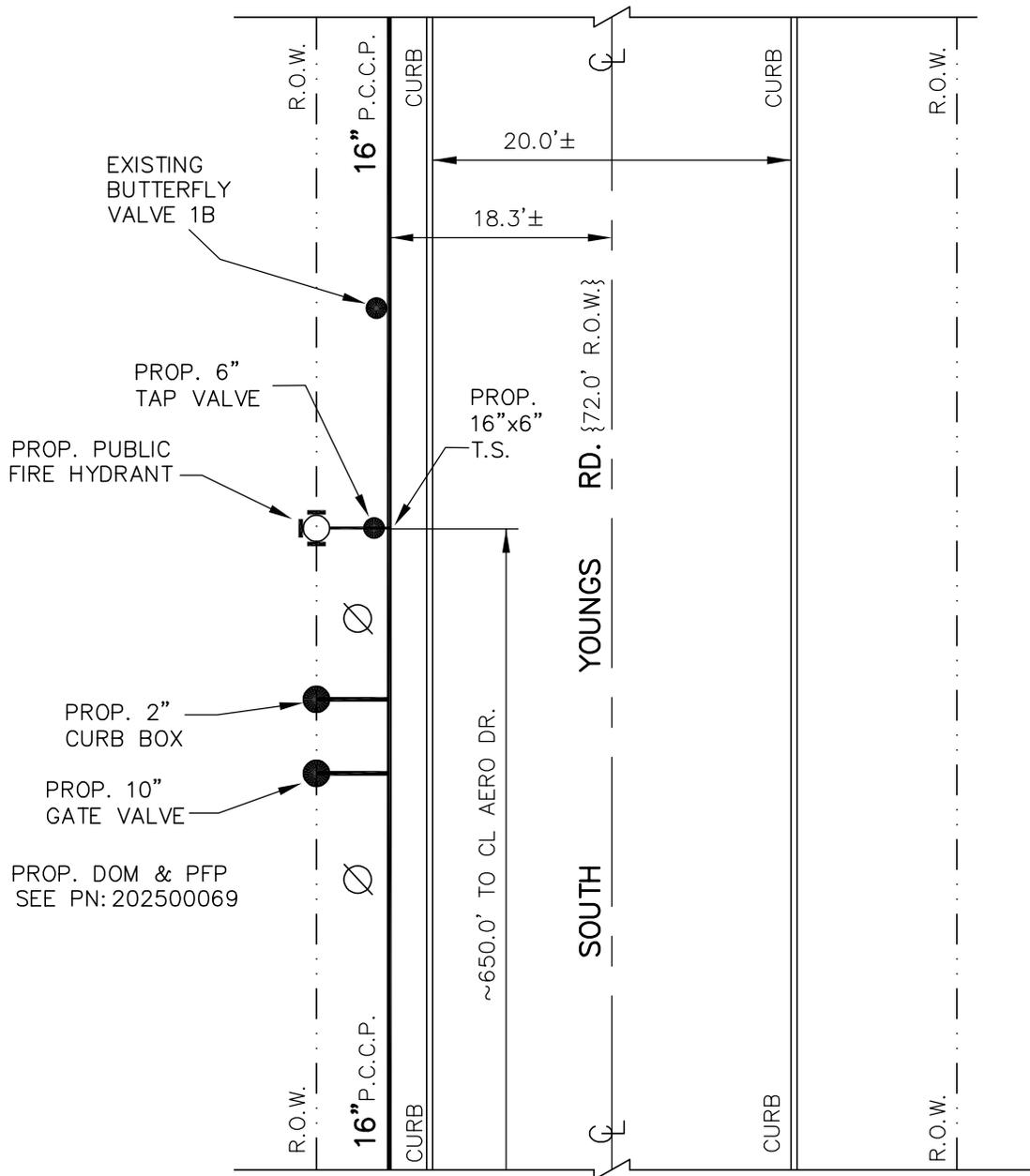
TOWN OF AMHERST

E.C.W.A.

AMTN-837-2502  
 CURRENT FILE NO.

202500082  
 CURRENT PROJECT NO.

INSTALL A NEW PUBLIC FIRE HYDRANT TO  
 699 SOUTH YOUNGS RD., TOWN OF AMHERST  
 PN: 202500082 FN: AMTN-837-2502



PROP. DOM & PFP  
 SEE PN: 202500069

PLAN  
 NTS

**ERIE COUNTY WATER AUTHORITY  
CONSTRUCTION AUTHORIZATION**

Project No. 202600040  
Budget No. \_\_\_\_\_

Authorization No.: EC 7560  
Date: 1/14/2026  
Inputted By/Date: \_\_\_\_\_

January 2026 Estimate Starting Date  
February 2026 Estimate Complete Date  
X yes \_\_\_\_\_ no Retirement Involved  
X Public Street  
Private Right of Way  
On Authority's Prop  
Tax Districts \_\_\_\_\_  
Name of Grantor of Easement \_\_\_\_\_  
Date of Easement \_\_\_\_\_

**TITLE OF PROJECT:** \_\_\_\_\_  
Valve Removal 2745 Seneca St. WSTN

**CLASS OF MAIN INSTALLATION:**  
X System Betterment  
Bldr/Cont/Dev. Agree.  
Owner Occupant Cont.  
Special Revenue Cont.

**DETAILED DESCRIPTION AND PURPOSE:**  
Valve J13-A15-9G broken and unrepairable.  
See CityWorks Orders: 163128/163178  
Work performed by ECWA  
Retirement # 260003.

**ESTIMATE COST**

(1) Total Est. Cost \$ 1,893.83  
(2) \_\_\_\_\_ Meters and Service @ \$ \_\_\_\_\_  
(3) Removal Cost Less Salvage \$ \_\_\_\_\_  
(4) Gross Investment \$ 1,893.83

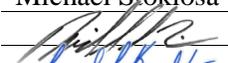
**DEDUCT**

(5) Const. Advance \$ \_\_\_\_\_  
(6) Service Conn. \$ \_\_\_\_\_  
(7) Refunds \$ \_\_\_\_\_  
(8) Net Auth. Invest. \$ 1,893.83

**BUDGETARY DATA**

(9) Tot. Budget Expnd. \$ \_\_\_\_\_  
(10) This Authorization \$ \_\_\_\_\_  
(11) Pre Approved \$ \_\_\_\_\_  
(12) Tot. Apvl. To Date \$ \_\_\_\_\_  
(13) Bal. Budget Expnd. \$ \_\_\_\_\_

**APPROVALS**

Preparation Michael Stoklosa  
Dir. of Dist.  2/27/2026  
Exec. Engr.  3/4/2026  
Admn. Director \_\_\_\_\_  
Legal Dept. \_\_\_\_\_  
Acct. Dept. \_\_\_\_\_

**ESTIMATED EARNINGS & RETURNS**

**ESTIMATED INCREASE IN REVENUES**

(14) \_\_\_\_\_ Customers @ \$ \_\_\_\_\_  
\$ \_\_\_\_\_  
(15) \_\_\_\_\_ Hydrants @ \$ \_\_\_\_\_  
\$ \_\_\_\_\_

**EST. SAVINGS IN OPERATING EXPENSES**

(16) \_\_\_\_\_ \$ \_\_\_\_\_  
(17) Gross Increase in Earnings \$ \_\_\_\_\_

**REVENUE DEDUCTIONS**

(18) Operating Exp. \_\_\_\_\_ % \$ \_\_\_\_\_  
(19) Depreciation \$ \_\_\_\_\_  
(20) Total Deductions \$ \_\_\_\_\_  
(21) Net Income Loss \$ \_\_\_\_\_  
(22) % Return on Investment \_\_\_\_\_  
(21) divided by 8) \_\_\_\_\_ %

**RESOLUTION APPROVING**

Adopted \_\_\_\_\_  
Item No. \_\_\_\_\_

WORK TO BE DONE BY  
AUTHORITY FORCES

LOCATION: SENECA ST #2745 OPP  
WEST SENECA NY

JOB NO.: 7560 PLATE NO.: J13 VALVE NO.: A15-9G

FOREMAN: T.SELPH DATE COMPLETED: 12/26/25

FILE NO.: WSTN-799-202601 PROJECT NO.: 202600040

WORK ORDER 163128 INPUTED BY/DATE: 01/14/26 lmp  
NO.:

MATERIALS USED:  
(Indicate Make & Type of Hydrants)

MATERIALS USED:  
(Indicate Make & Type of Hydrants)

RETIREMENT: R 260003

WHY WAS WORK NECESSARY:

- \_\_\_\_\_ 1.) Hydrant Hit and Damaged  
\_\_\_\_\_ 2.) Hydrant Obsolete  
\_\_\_\_\_ 3.) Hydrant Parts Not Available  
\_\_\_\_\_ 4.) Other

Work Order
Email
Print
Save
Close
Delete

### Work Order

Description: Valve Remove (VLRM)

Entity Type: WVALVE Change

WO Id: 163128

WO Address: OPP 2745 SENECA ST, West Seneca, 14224

Status: Closed Priority: Low-Medium

Initiated By: SABUDA, JASON P Date: 12/26/2025 6:51 AM

Requested By: DUTY, MAN Supervisor: SPIER, SCOTT

Submit To: SELPH, TIMOTHY M Date: 12/26/2025 6:59 AM

Projected Start: Projected Finish:

Completed By: SELPH, TIMOTHY M

Resolution: Followup Work Not Req

Actual Start: 12/26/2025 9:00 AM **Actual Finish: 12/26/2025 2:00 PM**

Instructions:

Comments: Sort ▲

- DUTY, MAN** 12/26/2025 5:10 AM  
(Copied from Service Request 20804): "Hydrant Branch that Runs Ac..."
- SABUDA, JASON P** 12/26/2025 6:55 AM  
UFPO=12265-000-011
- SELPH, TIMOTHY M** 12/26/2025 10:44 AM  
used ustc to shift lane.
- SELPH, TIMOTHY M** 12/26/2025 1:20 PM  
dug valve and tee, cut out and straight piped tee with hymax and cla...
- WHITBECK, KIMBERLY L** 12/30/2025 7:00 AM  
material charged from wrong location. made changes
- PANARO, LISA M** 12/31/2025 10:13 AM  
Attached USTC Invoice and call out sheet
- SPIER, SCOTT** 01/14/2026 10:20 AM  
valve j13 a15 9g was broken and unrepairable

On Hold Reason:

Closed By: PALUCH, STEPHEN Date: 12/29/2025 9:14:21 AM

### Location Information

Cross Streets & 39.0' SW/O TRAFFIC SIGNAL POLE

Location Details:

City: West Seneca

Resto Area: Area 2

Facility Id: Level Id:

X Location: -8,771,035.916 Y Location: 5,288,199.584

### Assets

### Reservations

Equipment ID	Employee	Start Date	End Date	Comments
No records to display.				

### Checked Out Equipment

Equipment ID	Employee	Check Out Date	Due Date	Comments
No records to display.				

### Work Cycle

### Related Work Activities

### Service Requests

<input type="checkbox"/>	Id	Date Initiated	Description	Link Type	Priority	Category	Subn
<input type="checkbox"/>	20804	12/26/2025	Check Leak (CKLK)	Related	1	LEAK	

Open SRs Remove

### Work Orders

WO Template

<input type="checkbox"/>	Id	Description	Link Type	Priority	Status	Submit To
<input type="checkbox"/>	163178	Hydrant Install	Child	4	NEW	MARSILLO, JONATHAN F

Open WOs Create Child Work Order

### Permits

### Attachments

**ERIE COUNTY WATER AUTHORITY  
CONSTRUCTION AUTHORIZATION**

Project No. 202600035  
Budget No. \_\_\_\_\_

Authorization No.: EC 7564  
Date: 1/27/2025  
Inputted By/Date: \_\_\_\_\_

January 2026 Estimate Starting Date  
February 2026 Estimate Complete Date  
X yes \_\_\_\_\_ no Retirement Involved  
X Public Street  
Private Right of Way  
On Authority's Prop  
Tax Districts \_\_\_\_\_  
Name of Grantor of Easement \_\_\_\_\_  
Date of Easement \_\_\_\_\_

**TITLE OF PROJECT:** \_\_\_\_\_  
Hydrant replacement – 150 Lebrun Rd., AMTN

**CLASS OF MAIN INSTALLATION:**  
X System Betterment  
Bldr/Cont/Dev. Agree.  
Owner Occupant Cont.  
Special Revenue Cont.

**DETAILED DESCRIPTION AND PURPOSE:**  
Hydrant hit by car, needs to be replaced. Car left scene. Police Report 25-0596615.  
See CityWorks Orders: 163195/163196/163678  
Retirement # 260006.

**ESTIMATE COST**

(1) Total Est. Cost \$ 2,111.22  
(2) \_\_\_\_\_ Meters and Service @ \$ \_\_\_\_\_  
(3) Removal Cost Less Salvage \$ \_\_\_\_\_  
(4) Gross Investment \$ 2,111.22

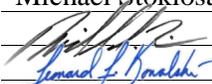
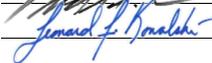
**DEDUCT**

(5) Const. Advance \$ \_\_\_\_\_  
(6) Service Conn. \$ \_\_\_\_\_  
(7) Refunds \$ \_\_\_\_\_  
(8) Net Auth. Invest. \$ 2,111.22

**BUDGETARY DATA**

(9) Tot. Budget Expnd. \$ \_\_\_\_\_  
(10) This Authorization \$ \_\_\_\_\_  
(11) Pre Approved \$ \_\_\_\_\_  
(12) Tot. Apvl. To Date \$ \_\_\_\_\_  
(13) Bal. Budget Expnd. \$ \_\_\_\_\_

**APPROVALS**

Preparation Michael Stoklosa  
Dir. of Dist.  2/27/2026  
Exec. Engr.  3/4/2026  
Admn. Director \_\_\_\_\_  
Legal Dept. \_\_\_\_\_  
Acct. Dept. \_\_\_\_\_

**ESTIMATED EARNINGS & RETURNS**

**ESTIMATED INCREASE IN REVENUES**

(14) Customers @ \$ \_\_\_\_\_  
\$ \_\_\_\_\_  
(15) Hydrants @ \$ \_\_\_\_\_  
\$ \_\_\_\_\_

**EST. SAVINGS IN OPERATING EXPENSES**

(16) \$ \_\_\_\_\_  
(17) Gross Increase in Earnings \$ \_\_\_\_\_

**REVENUE DEDUCTIONS**

(18) Operating Exp. \_\_\_\_\_ % \$ \_\_\_\_\_  
(19) Depreciation \$ \_\_\_\_\_  
(20) Total Deductions \$ \_\_\_\_\_  
(21) Net Income Loss \$ \_\_\_\_\_  
(22) % Return on Investment \_\_\_\_\_  
(21) divided by 8) \_\_\_\_\_ %

**RESOLUTION APPROVING**

Adopted \_\_\_\_\_  
Item No. \_\_\_\_\_

WORK TO BE DONE BY  
AUTHORITY FORCES

LOCATION: 150 LEBRUN RD  
AMHERST NY

JOB NO.: 7564 PLATE NO.: H08 HYDR NO.: 025

FOREMAN: \_\_\_\_\_ DATE COMPLETED: \_\_\_\_\_

FILE NO.: AMTN-497-202601 PROJECT NO.: 202600035

WORK ORDER NO.: 163195/163196  
163197/163678 INPUTED BY/DATE: 01/27/26 lmp

MATERIALS USED:  
(Indicate Make & Type of Hydrants)

MATERIALS USED:  
(Indicate Make & Type of Hydrants)

\_\_\_\_\_  
RETIREMENT: R 260006

WHY WAS WORK NECESSARY:

- \_\_\_\_\_ 1.) Hydrant Hit and Damaged  
\_\_\_\_\_ 2.) Hydrant Obsolete  
\_\_\_\_\_ 3.) Hydrant Parts Not Available  
\_\_\_\_\_ 4.) Other

