



ERIE COUNTY WATER AUTHORITY
INTEROFFICE MEMORANDUM

February 22, 2019

TO: Terrance D. McCracken, Secretary to the Authority

FROM: Leonard F. Kowalski, P.E., Senior Distribution Engineer *LFK*

SUBJECT: Main and valve replacement along North Gates Ave., in the City of Lackawanna
ECWA PN: 201900057
ECWA FN: LACY-659-1901

Currently a leak is isolated under the pavement along North Gates Ave. at Ridge Rd. in the City of Lackawanna. The leak is on a 12" watermain that services an industrial park. The leak was isolated due to the complexity of making the repair under emergency conditions. The decision to isolate the leak left the industrial park with a one-way feed. Reestablishing the connection at North Gates Ave will make the industrial park part of a looped system and minimize water outages in the future.

This work will be performed using Capital Budget Item 100586 Misc Distribution Mains under 2090 Distribution Mains Unit. The annual budgeted amount is \$1,000,000. The estimated cost to do this work is \$40,500.00 and will be performed by Kandey Company Inc.

**ERIE COUNTY WATER AUTHORITY
CONSTRUCTION AUTHORIZATION**

Project No. 201900057
Budget No. _____

Authorization No.: EC 7027
Date: 2/21/19
Inputted By/Date: _____

February 2019 Estimate Starting Date
February 2020 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 _____

TITLE OF PROJECT: 12" main replacement along North Gates Ave at Ridge Rd in the City of Lackawanna.

_____ Date of Easement

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

DETAILED DESCRIPTION AND PURPOSE:
Install approximately 90' of 12" DIP along North Gates Ave in the Town of Cheektowaga. A new 12" connection will be made to the existing 12" main in the southerly R.O.W. of Ridge Rd., then continue north along North Gates Ave. approx. 90 feet. Currently a leak is isolated on this main. The leak was isolated due to the complexity of a repair and has left an industrial park with a one way feed. The main replacement will reestablish a secondary feed to this area minimizing water outages in the future.

ESTIMATE COST

- (1) Total Est. Cost \$ 40,500.00
- (2) _____ Meters and Service @ _____ \$ _____
- (3) Removal Cost Less Salvage \$ _____
- (4) Gross Investment \$ 40,500.00

DEDUCT

- (5) Const. Advance \$ _____
- (6) Service Conn. \$ _____
- (7) Refunds \$ _____
- (8) Net Auth. Invest. \$ 40,500.00

BUDGETARY DATA

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

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) _____ %

APPROVALS

Preparation Adam Massaro
Sr. Dist. Engr. Jeanette Kovach - 2-26-19
Exec. Engr. Russell J. Jell - 2-27-19
Admn. Director _____
Legal Dept. _____
Acct. Dept. _____

RESOLUTION APPROVING

Adopted _____
Item No. _____

WATERLINE DESCRIPTION

NORTH GATES AVE.
CITY OF LACKAWANNA
FN: LACY-659-1901
PN: 201900057

February 21, 2019

Beginning at a point on the existing 12 inch water main in the southerly R.O.W. of Ridge Rd., approximately 40 FT west of the centerline of North Gates Ave., and approximately 20 FT south of the centerline of Ridge Rd. Thence 12 inch D.I.P. northerly a distance of approximately 90 FT to tie into the existing 12 inch water main in the westerly R.O.W. of North Gates Ave., approximately 60 FT north of the centerline of Ridge Rd. and approximately 34 FT west of the centerline of North Gates Ave.

ENGINEERING REPORT

WATER MAIN REPLACEMENT NORTH GATES AVE. CITY OF LACKAWANNA ECWA PROJECT NO. 201900057

FEBRUARY 21, 2019

LOCATION AND DESCRIPTION

North Gates Ave. is located north of Ridge Rd., and east of Rt 5. in the City of Lackawanna, New York. This project consists of abandoning the existing 12 inch water main in the westerly R.O.W. of North Gates Ave., and installing approximately 90 FT of 12 inch D.I.P. water main in the westerly R.O.W. of North Gates Ave.

WATER SERVICE

Water will be supplied by making a connection to the existing 12 inch water main in the southerly R.O.W. of Ridge Rd., approximately 40 FT west of the centerline of North Gates Ave., and approximately 20 FT south of the centerline of Ridge Rd., via a 12 inch x 12 inch tee. Then extend 12 inch D.I.P. north a distance of 90 FT to tie into the existing 12 inch main approximately 60 FT north of the centerline of Ridge Rd., and approximately 34 FT west of the centerline of North Gates Ave.

MATERIALS

The proposed water main extension will consist of 12 inch D.I.P. All valves, fittings and fixtures will conform to ECWA Standard Specifications.

INSTALLATION

The proposed 12 inch water main will be installed and tested in accordance with ECWA Standard Specifications. Inspection of the main installation and the testing of water samples will be done by ECWA. All proposed waterlines will maintain physical separation from the other utilities as per Ten States Standards.

Cost Estimate

PROJECT NO.: **201900057**

Prepared By: **A.Massaro**
 Inputted By: _____

Date: **2/21/2019**
 Date: _____

TITLE: **INSTALL 90LF OF 12" DIP FOR MAIN REPLACEMENT
 N. GATES AVE. AT RIDGE RD., CITY OF LACKAWANNA**

Type of Connection: **TEE**

MATERIAL LIST

Materials					
Qty.	U/M	Item No.	Description	Cost per Unit	Total Cost per Item
90	LF	12120	12" D.I.PIPE w/WRAP	\$52.97	\$4,767.30
1	EA	11130	12"x12" TEE	\$245.69	\$245.69
2	EA	7124	12" GATE VALVE	\$1,327.69	\$2,655.38
3	EA	20604	12" HY-MAX COUPLING	\$307.61	\$922.83
4	EA	14353	12"-45 COMPACT BEND	\$140.82	\$563.28
2	EA	9120	12" CAP	\$63.99	\$127.98
2	EA		VALVE BOX COMPLETE	\$200.00	\$400.00
10	EA		RETAINER GLAND	\$50.00	\$500.00
TOTAL MATERIAL COST (MAT)					\$10,182.46

INSTALLATION per ECWA LARGE SERVICE CONTRACT

Installation					
Qty.	U/M	Item No.	Description	Cost per Unit	Total Cost per Item
1	EA	1D5	12"x12" CUT IN TEE	\$5,000.00	\$5,000.00
80	LF	1E4	INSTALL 12" D.I. PIPE	\$65.00	\$5,200.00
Restoration					
Qty.	U/M	Item No.	Description	Cost per Unit	Total Cost per Item
30	LF	6E1	LAWN	\$35.00	\$1,050.00
17	SY	6C2	CONCRETE SIDEWALK	\$145.00	\$2,465.00
34	SY	6B1	ASPHALT PAVEMENT	\$125.00	\$4,250.00
50	CY	7A1	SELECT FILL	\$55.00	\$2,750.00
5	LF	6B6	CONCRETE CURB	\$85.00	\$425.00
TOTAL LABOR COST (LAB)					\$21,140.00

STORES ALLOCATION COST (SAL) = 15.0% OF MATERIAL COST (MAT) **\$1,527.37**

SUBTOTAL "A" = MAT+LAB+SAL **\$32,849.83**

OVERHEAD COST (OVHD) = 11.9% OF SUBTOTAL "A" **\$3,909.13**

SUBTOTAL "B" = OVHD + SUBTOTAL "A" **\$36,758.96**

CONTINGENCIES (CONT) = 10.0% OF SUBTOTAL "B" **\$3,675.90**

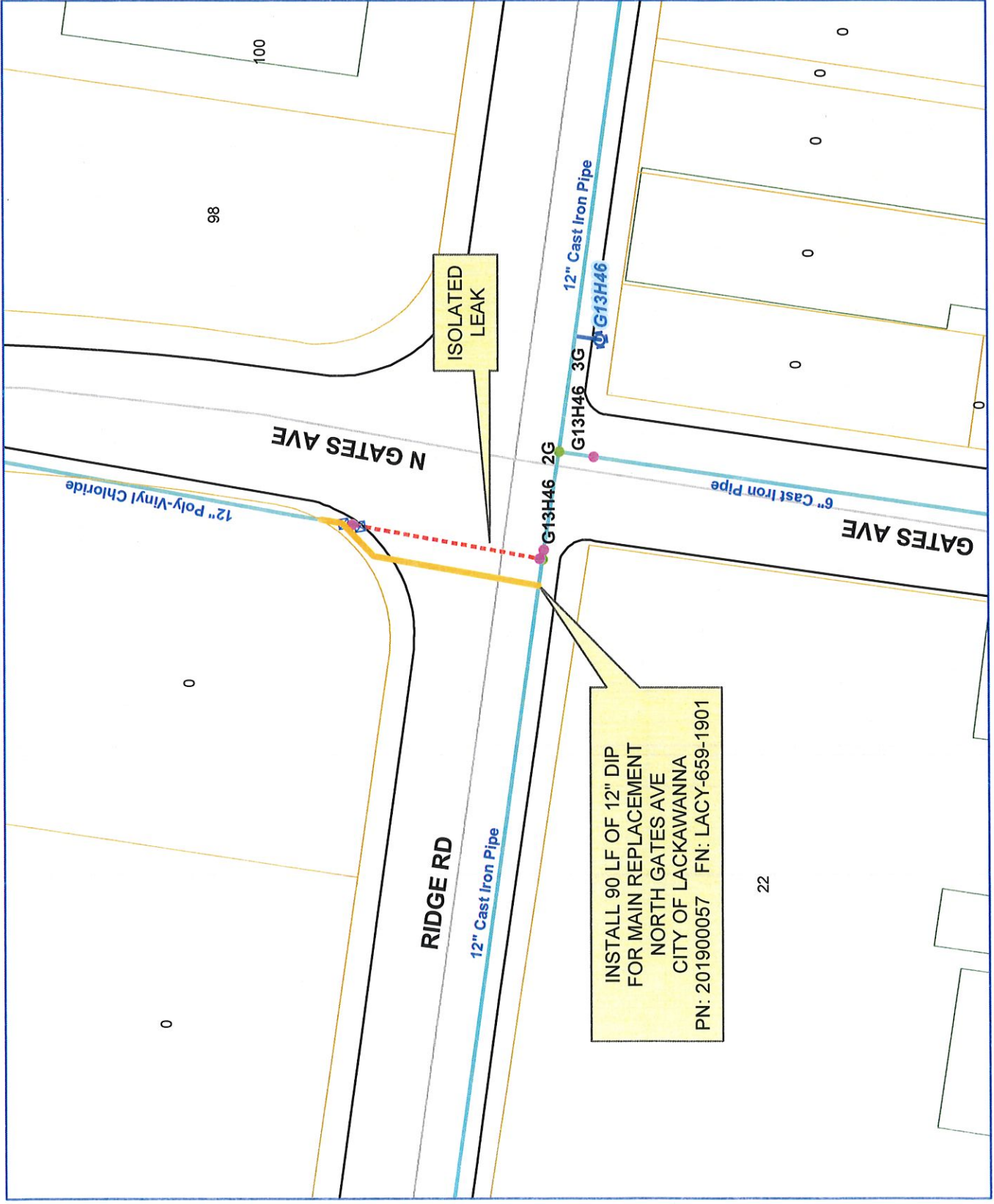
***TOTAL ESTIMATED COST = CONT + SUBTOTAL "B" (ROUNDED)** **\$40,500.00**

(*ESTIMATED COST EFFECTIVE IF INSTALLED BY JANUARY 31, 2021)

N. GATES AVE., LACY



Legend:
□ Parcels



ISOLATED LEAK

**INSTALL 90 LF OF 12" DIP
FOR MAIN REPLACEMENT
NORTH GATES AVE
CITY OF LACKAWANNA
PN: 201900057 FN: LACY-659-1901**



ERIE COUNTY
WATER AUTHORITY
 BUFFALO, NEW YORK

REVISED DR. WKZ

DATE: 5-29-02

FIELD

REVISED DR. DCC

DATE: 5-29-02

OFFICE

CITY OF LACKAWANNA

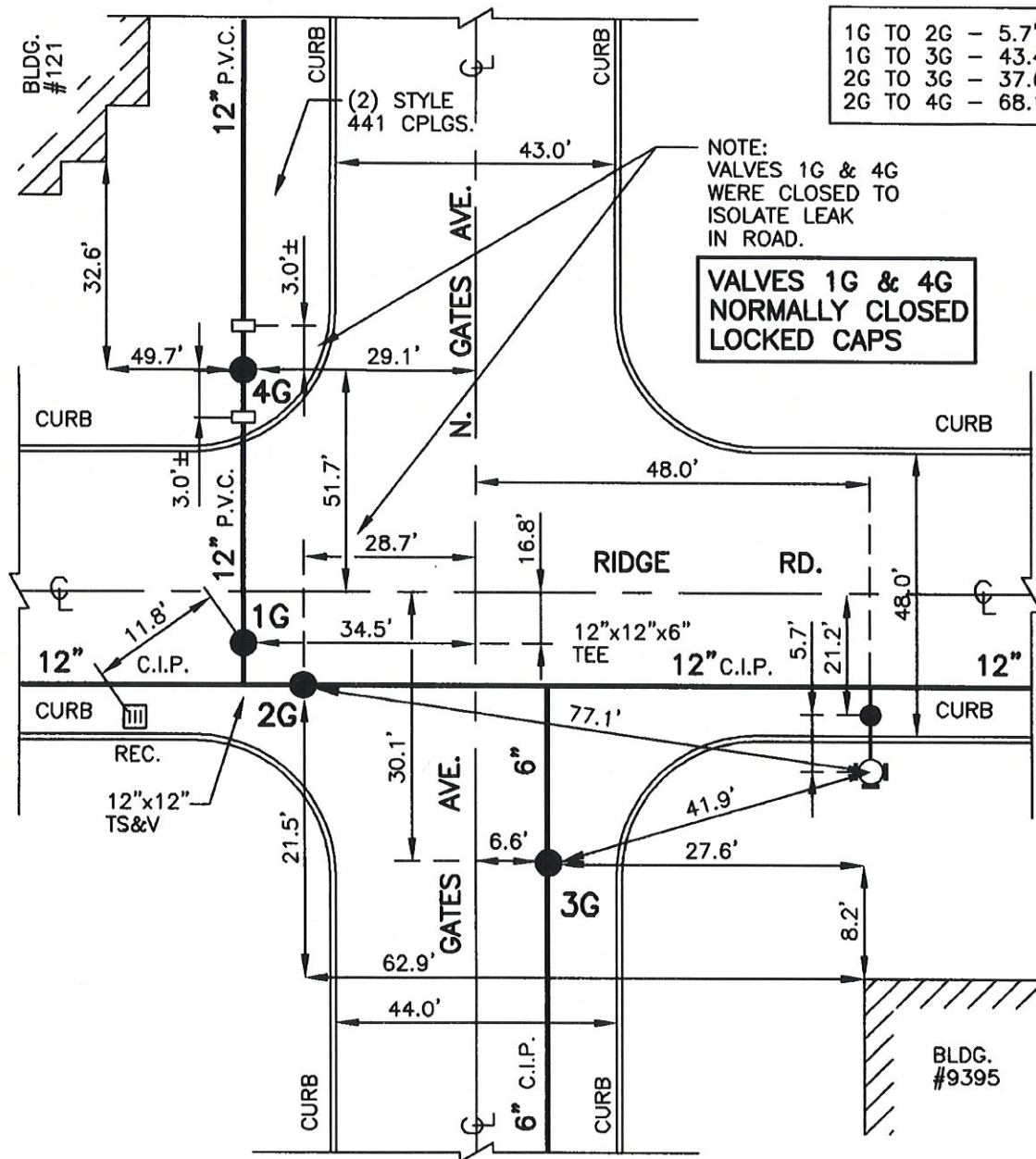
E.C.W.A.

G13-H46

DETAIL SHT. NO.

199400274

CURRENT PROJECT NO.



1G TO 2G	- 5.7'
1G TO 3G	- 43.4'
2G TO 3G	- 37.6'
2G TO 4G	- 68.1'

NOTE:
 VALVES 1G & 4G
 WERE CLOSED TO
 ISOLATE LEAK
 IN ROAD.

**VALVES 1G & 4G
 NORMALLY CLOSED
 LOCKED CAPS**

NOTE: ± DIMENSIONS TAKEN FROM
 EXCAVATION REPORT. DETAIL
 DRAWN ON CAD. NOT FIELD
 CHECKED.
 DETAIL DRAWN ON
 CAD SYSTEM.

W.O. #9464262
 OCP-19
 OCP-47A
 LACY-659-9402-P
 BCD. 83-03

G13-H46
 DETAIL SHT. NO.

MASTER COPY



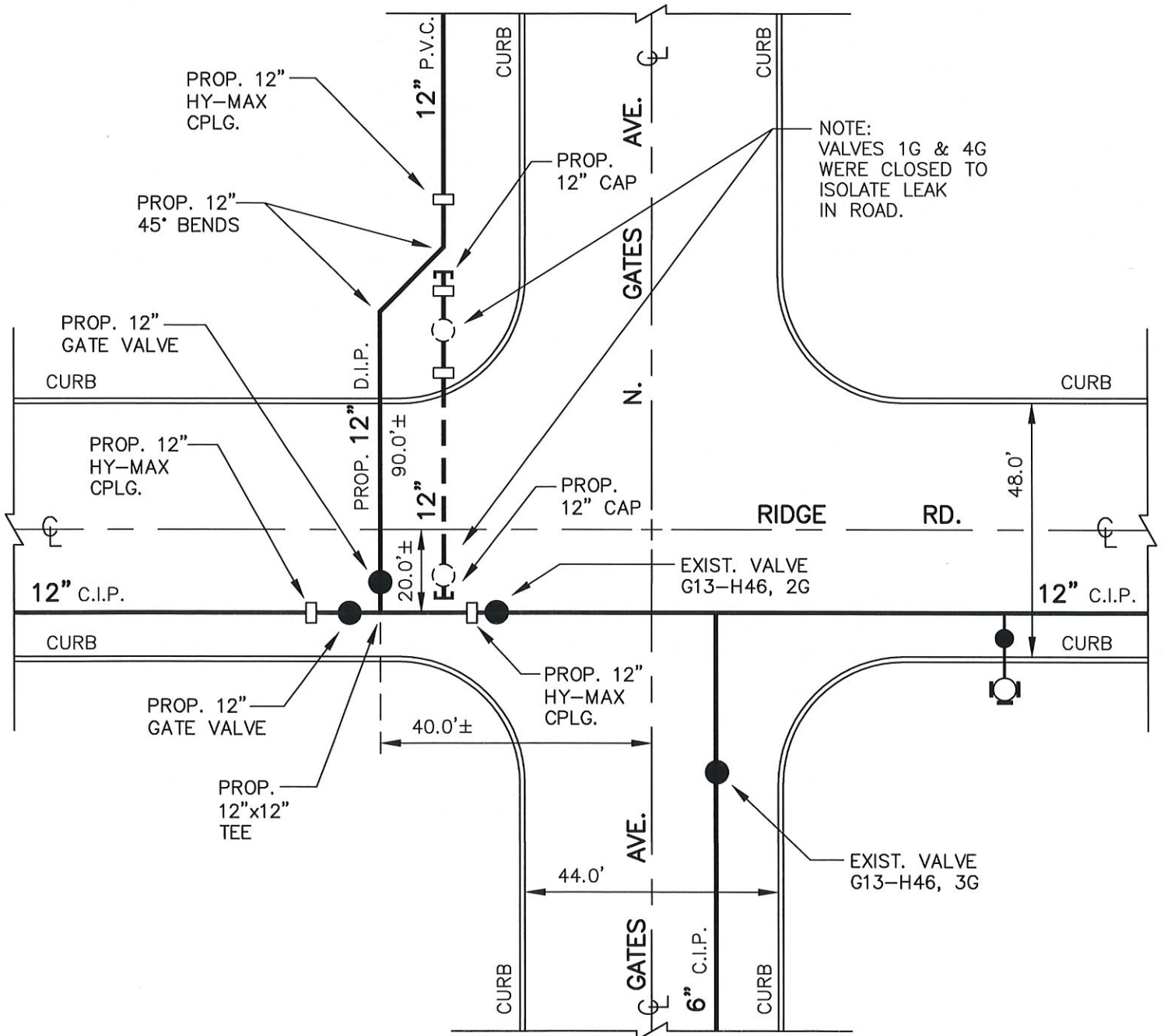
ERIE COUNTY
WATER AUTHORITY
 BUFFALO, NEW YORK

DR. ARM
 DATE: 2/15/19
 OFFICE

CITY OF LACKAWANNA
 E.C.W.A.

LACY-659-1901
 CURRENT FILE NO.
 201900057
 CURRENT PROJECT NO.

INSTALL 90 LF OF 12" D.I.P AND TWO 12" GATE VALVES
 N. GATES AVE., CITY OF LACKAWANNA
 PN: 201900057 FN: LACY-659-1901



PLAN
 NTS



ERIE COUNTY WATER AUTHORITY
INTEROFFICE MEMORANDUM

March 7, 2019

TO: Terrence D. McCracken, Secretary to the Authority

FROM: Leonard F. Kowalski, P.E., Senior Distribution Engineer *LFK*

SUBJECT: Main and valve replacement along Niagara Falls Blvd., in the Town of Amherst
ECWA PN: 201900058
ECWA FN: AMTN-651-1901

Existing gate valve H07-B48-9G has a bad bonnet and requires replacement. The valve is currently closed and requires replacement to return to its normally open position. The valve is part of the piping system where ECWA has an interconnection with the Town of Tonawanda. The valve will be required during the sampling of the interconnections that will take place in the Spring.

This work will be performed using Capital Budget Item 100586 Misc Distribution Mains under 2090 Distribution Mains Unit. The annual budgeted amount is \$1,000,000. The estimated cost to do this work is \$32,500.00 and will be performed by Kandey Company Inc.

Cost Estimate

PROJECT NO.: 201900058

Prepared By: A.Massaro
Inputted By: _____

Date: 3/11/2019
Date: _____

TITLE: REPLACE VALVE H07-B48, 9G AND INSTALL APPROXIMATELY 50LF OF 8" DIP
 NIAGARA FALLS BLVD. AT YALE AVE., TOWN OF AMHERST

Type of Connection: M.J.

MATERIAL LIST

Materials					
Qty.	U/M	Item No.	Description	Cost per Unit	Total Cost per Item
50	LF	12080	8" D.I.PIPE w/WRAP	\$30.84	\$1,542.00
1	EA	7083	8" GATE VALVE	\$702.69	\$702.69
4	EA	14333	8"-45 COMPACT BEND	\$56.99	\$227.96
2	EA	20602	8" HY-MAX COUPLING	\$202.02	\$404.04
1	EA		VALVE BOX COMPLETE	\$200.00	\$200.00
5	EA		RETAINER GLAND	\$50.00	\$250.00
TOTAL MATERIAL COST (MAT)					\$3,326.69

INSTALLATION per ECWA LARGE SERVICE CONTRACT

Installation					
Qty.	U/M	Item No.	Description	Cost per Unit	Total Cost per Item
1	EA	1A2	8"x8" CONNECTION	\$4,700.00	\$4,700.00
40	LF	1E4	INSTALL 8" D.I. PIPE	\$65.00	\$2,600.00
1	EA	5E	EXTRA EXCAVATION 8-12 FEET DEEP	\$1,500.00	\$1,500.00
1	EA	5F	EXTRA EXCAVATION BEYOND 12 FEET	\$1,500.00	\$1,500.00
40	LF	5C	EXTRA EXCAVATION 8-12 FEET DEEP	\$50.00	\$2,000.00
40	LF	5D	EXTRA EXCAVATION BEYOND 12 FEET	\$50.00	\$2,000.00
Restoration					
Qty.	U/M	Item No.	Description	Cost per Unit	Total Cost per Item
10	LF	6E1	LAWN	\$35.00	\$350.00
30	SY	6D2	CONCRETE DRIVEWAY	\$160.00	\$4,800.00
6	SY	6B1	ASPHALT PAVEMENT	\$125.00	\$750.00
35	CY	7A1	SELECT FILL	\$55.00	\$1,925.00
5	LF	6B6	CONCRETE CURB	\$85.00	\$425.00
TOTAL LABOR COST (LAB)					\$22,550.00

STORES ALLOCATION COST (SAL) = 15.0% OF MATERIAL COST (MAT) **\$499.00**

SUBTOTAL "A" = MAT+LAB+SAL **\$26,375.69**

OVERHEAD COST (OVHD) = 11.9% OF SUBTOTAL "A" **\$3,138.71**

SUBTOTAL "B" = OVHD + SUBTOTAL "A" **\$29,514.40**

CONTINGENCIES (CONT) = 10.0% OF SUBTOTAL "B" **\$2,951.44**

***TOTAL ESTIMATED COST = CONT + SUBTOTAL "B" (ROUNDED)** **\$32,500.00**

(*ESTIMATED COST EFFECTIVE IF INSTALLED BY JANUARY 31, 2021)

**ERIE COUNTY WATER AUTHORITY
CONSTRUCTION AUTHORIZATION**

Project No. 201900058
Budget No. _____

Authorization No.: EC 7028
Date: 3/11/19
Inputted By/Date: _____

February 2019 Estimate Starting Date
February 2020 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 _____

TITLE OF PROJECT: 8" valve replacement and 50 LF of 8" D.I.P. main replacement Niagara Falls Blvd. at Yale Ave. Town of Amherst.

_____ Date of Easement

CLASS OF MAIN INSTALLATION:

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

DETAILED DESCRIPTION AND PURPOSE:
Replace valve H07-B48, 9G and install approx 50 LF of 8" D.I.P. along Niagara Falls Blvd. at Yale Ave. in the Town of Amherst. Existing valve has a bad bonnet and is currently closed. Requires replacement to function properly.

ESTIMATE COST

(1) Total Est. Cost \$ 32,500.00
(2) _____ Meters and Service @ _____ \$ _____
(3) Removal Cost Less Salvage \$ _____
(4) Gross Investment \$ 32,500.00

DEDUCT

(5) Const. Advance \$ _____
(6) Service Conn. \$ _____
(7) Refunds \$ _____
(8) Net Auth. Invest. \$ 32,500.00

BUDGETARY DATA

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

APPROVALS

Preparation Adam Massaro
Sr. Dist. Engr. [Signature]
Exec. Engr. [Signature]
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. _____

WATERLINE DESCRIPTION

NIAGARA FALLS BLVD.
TOWN OF AMHERST
FN: AMTN-651-1901
PN: 201900058

March 11, 2019

Beginning at a point on the existing 8 inch water main in the easterly R.O.W. of Niagara Falls Blvd., approximately 40 FT east of the centerline of Niagara Falls Blvd., and approximately 18 FT south of the centerline of Yale Ave. Thence 8 inch D.I.P. southerly a distance of approximately 50 FT to tie into the existing 8 inch water main in the easterly R.O.W. of Niagara Falls Blvd., approximately 65 FT south of the centerline of Niagara Falls Blvd. and approximately 35 FT east of the centerline of Yale Ave.

ENGINEERING REPORT
VALVE & MAIN REPLACEMENT
NIAGARA FALLS BLVD.
TOWN OF AMHERST
ECWA PROJECT NO. 201900058

MARCH 11, 2019

LOCATION AND DESCRIPTION

Niagara Falls Blvd. is located south of Sheridan Dr. and west of Bailey Ave. in the Town of Amherst, New York. This project consists of replacing an existing 8 inch gate valve (H07-B48-9G) and installing approximately 50 FT of 8 inch D.I.P. water main in the easterly R.O.W. of Niagara Falls Blvd., south of Yale Ave.

WATER SERVICE

Water will be supplied by making a connection to the existing 8 inch water main in the easterly R.O.W. of Niagara Falls Blvd., approximately 40 FT east of the centerline of Niagara Falls Blvd., and approximately 18 FT south of the centerline of Yale Ave., via a 12 inch gate valve. Then extend 8 inch D.I.P. south a distance of 50 FT to tie into the existing 8 inch main approximately 65 FT south of the centerline of Yale Ave., and approximately 35 FT east of the centerline of Niagara Falls Blvd.

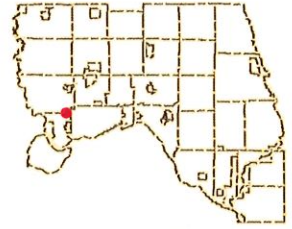
MATERIALS

The proposed water main replacement will consist of 8 inch D.I.P. All valves, fittings and fixtures will conform to ECWA Standard Specifications.

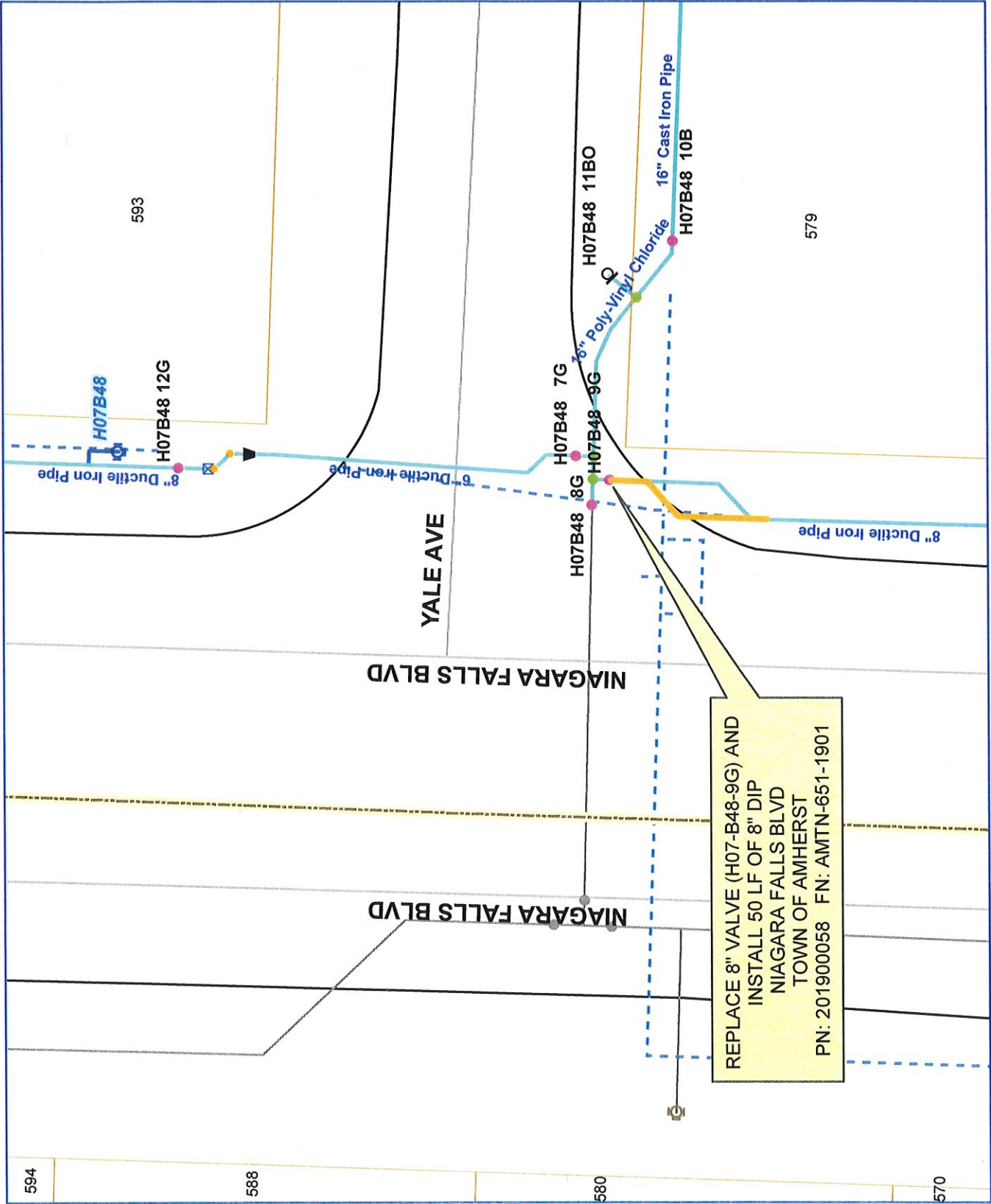
INSTALLATION

The proposed 8 inch water main will be installed and tested in accordance with ECWA Standard Specifications. Inspection of the main installation and the testing of water samples will be done by ECWA. All proposed waterlines will maintain physical separation from the other utilities as per Ten States Standards.

NIAGARA FALLS BLVD., AMTN



Legend:
□ Parcels



REPLACE 8" VALVE (H07-B48-9G) AND
INSTALL 50 LF OF 8" DIP
NIAGARA FALLS BLVD
TOWN OF AMHERST
PN: 201900058 FN: AMTN-651-1901



ERIE COUNTY
WATER AUTHORITY
 BUFFALO, NEW YORK

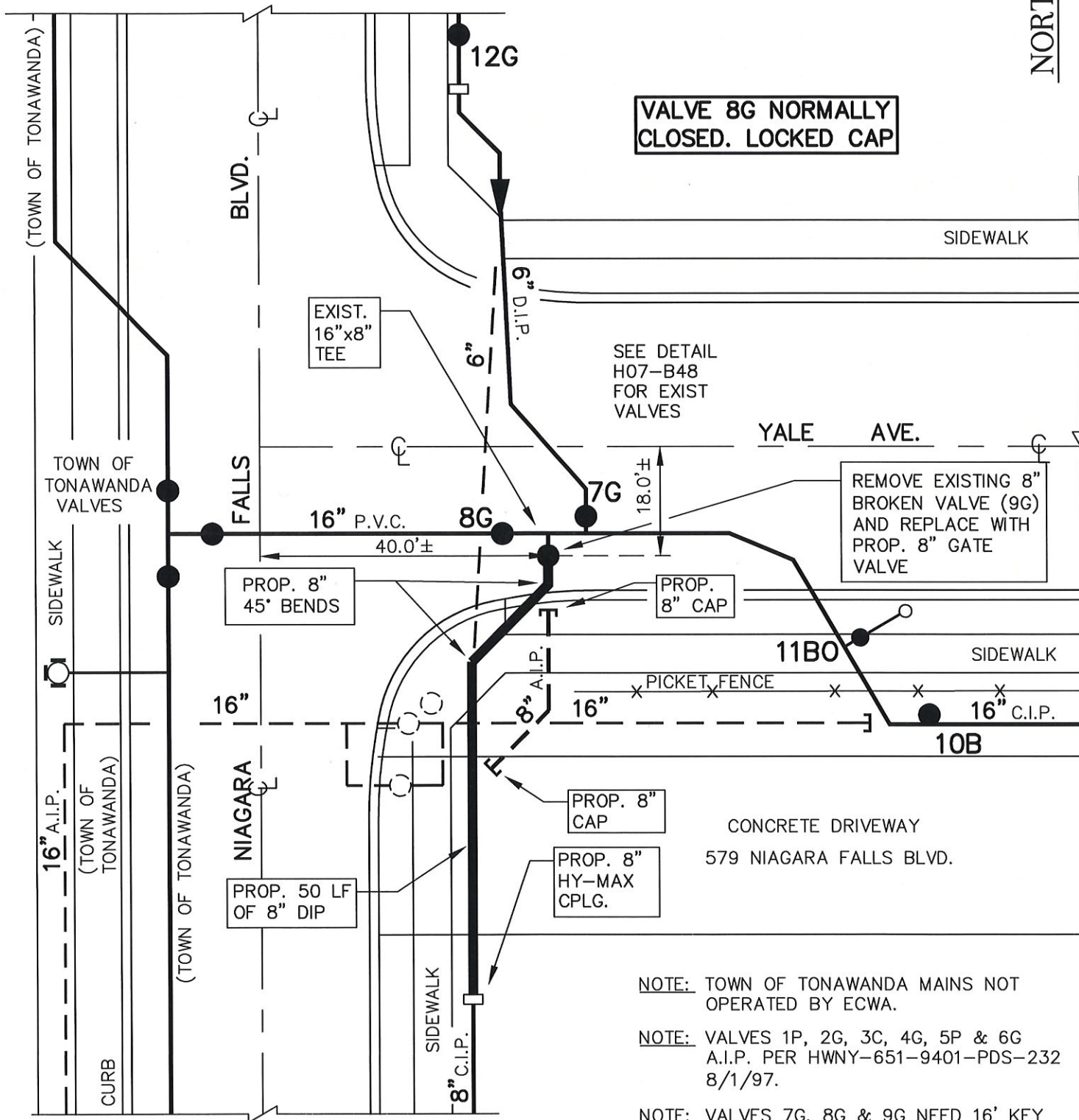
DR. ARM
 DATE: 3/8/19
 OFFICE

TOWN OF AMHERST
 E.C.W.A.

AMTN-651-1901
 CURRENT FILE NO.
 201900058
 CURRENT PROJECT NO.

REPLACE 8" GATE VALVE H07-B48, 9G AND
 INSTALL 50 LF OF 8" D.I.P.
 NIAGARA FALLS BLVD., TOWN OF AMEHRST
 PN: 201900058 FN: AMTN-651-1901

NORTH



- NOTE: TOWN OF TONAWANDA MAINS NOT OPERATED BY ECWA.
- NOTE: VALVES 1P, 2G, 3C, 4G, 5P & 6G A.I.P. PER HWNY-651-9401-PDS-232 8/1/97.
- NOTE: VALVES 7G, 8G & 9G NEED 16' KEY TO OPERATE.
- NOTE: VALVE 8G IS LEFT HANDED.

PLAN
 NTS

The Travelers Indemnity Company of Connecticut

A.M. Best #: 002517 NAIC #: 25682 FEIN #: 060336212

Domiciliary Address

One Tower Square
Hartford, CT 06183
United States

Web: www.travelers.com

Phone: 860-277-0111

Fax: 860-277-7002

Financial Strength Rating



A++ Superior

Assigned to insurance companies that have, in our opinion, a superior ability to meet their ongoing insurance obligations.

View additional news, reports and products for this company.

Based on A.M. Best's analysis, 058470 - The Travelers Companies, Inc. is the **AMB Ultimate Parent** and identifies the topmost entity of the corporate structure. View a list of operating insurance entities in this structure.

Best's Credit Ratings

Financial Strength Rating View Definition

Rating:	A++ (Superior)
Affiliation Code:	g (Group)
Financial Size Category:	XV (\$2 Billion or greater)
Outlook:	Stable
Action:	Affirmed
Effective Date:	October 31, 2018
Initial Rating Date:	December 31, 1907

Long-Term Issuer Credit Rating View Definition

Markel American Insurance Company

A.M. Best #: 000602 NAIC #: 28932 FEIN #: 541398877

Domiciliary Address

4521 Highwoods Parkway
Glen Allen, VA 23060-6148
United States

Web: www.markelcorp.com

Phone: 804-747-0136

Fax: 804-527-7905

Financial Strength Rating



Assigned to insurance companies that have, in our opinion, an excellent ability to meet their ongoing insurance obligations.

View additional news, reports and products for this company.

Based on A.M. Best's analysis, 058405 - Markel Corporation is the **AMB Ultimate Parent** and identifies the topmost entity of the corporate structure. View a list of operating insurance entities in this structure.

Best's Credit Ratings

Financial Strength Rating View Definition

Rating:	A (Excellent)
Affiliation Code:	g (Group)
Financial Size Category:	XV (\$2 Billion or greater)
Outlook:	Stable
Action:	Affirmed
Effective Date:	December 19, 2018
Initial Rating Date:	July 06, 1992

Long-Term Issuer Credit Rating View Definition

Great American Insurance Company

A.M. Best #: 002213 NAIC #: 16691 FEIN #: 310501234

Domiciliary Address

301 E. Fourth Street
Cincinnati, OH 45202
United States

Web:

www.greatamericaninsurancegroup.com

Phone: 513-369-5000

Fax: 513-369-3600



Assigned to insurance companies that have, in our opinion, a superior ability to meet their ongoing insurance obligations.

View additional news, reports and products for this company.

Based on A.M. Best's analysis, 058317 - American Financial Group, Inc is the **AMB Ultimate Parent** and identifies the topmost entity of the corporate structure. View a list of operating insurance entities in this structure.

Best's Credit Ratings

Financial Strength Rating View Definition

Rating: A+ (Superior)
Financial Size Category: XIV (\$1.5 Billion to \$2 Billion)
Outlook: Stable
Action: Affirmed
Effective Date: August 17, 2018
Initial Rating Date: September 30, 1908

Long-Term Issuer Credit Rating View Definition

Long-Term: aa-
Outlook: Stable
Action: Affirmed
Effective Date: August 17, 2018

Technology Insurance Company, Inc.

A.M. Best #: 011234 NAIC #: 42376 FEIN #: 020449082

Administrative Office

59 Maiden Lane 43rd Floor
New York, NY 10038
United States

[View Additional Address Information](#)

Web: www.amtrustgroup.com

Phone: 212-220-7120

Fax: 212-220-7130

Financial Strength Rating



A- Excellent

Assigned to insurance companies that have, in our opinion, an excellent ability to meet their ongoing insurance obligations.

[View additional news, reports and products for this company.](#)

Based on A.M. Best's analysis, 051002 - AmTrust Financial Services, Inc is the **AMB Ultimate Parent** and identifies the topmost entity of the corporate structure. [View a list of operating insurance entities in this structure.](#)

Best's Credit Ratings

Financial Strength Rating View Definition

Rating:	A- (Excellent)
Affiliation Code:	p (Pooled)
Financial Size Category:	XV (\$2 Billion or greater)
Outlook:	Stable
Action:	Downgraded
Effective Date:	July 03, 2018
Initial Rating Date:	December 15, 1997

Long-Term Issuer Credit Rating View Definition

Wesco Insurance Company

A.M. Best #: 002468 NAIC #: 25011 FEIN #: 850165753

Administrative Office

59 Maiden Lane 6th Floor
New York, NY 10038
United States

[View Additional Address Information](#)

Financial Strength Rating



Assigned to insurance companies that have, in our opinion, an excellent ability to meet their ongoing insurance obligations.

Web: www.amtrustgroup.com

Phone: 212-220-7120

Fax: 212-220-7130

[View additional news, reports and products for this company.](#)

Based on A.M. Best's analysis, 051002 - AmTrust Financial Services, Inc is the **AMB Ultimate Parent** and identifies the topmost entity of the corporate structure. [View a list of operating insurance entities in this structure.](#)

Best's Credit Ratings

Financial Strength Rating View Definition

Rating:	A- (Excellent)
Affiliation Code:	p (Pooled)
Financial Size Category:	XV (\$2 Billion or greater)
Outlook:	Stable
Action:	Downgraded
Effective Date:	July 03, 2018
Initial Rating Date:	June 30, 1964

Long-Term Issuer Credit Rating View Definition

Long-Term:	a-
Outlook:	Stable
Action:	Downgraded

X **Excess Umbrella Liability Insurance** in an amount of not less than:

\$1,000,000 in the aggregate

\$2,000,000 in the aggregate

\$3,000,000 in the aggregate

\$4,000,000 in the aggregate

\$5,000,000 in the aggregate

Per Policy

Per Project or Job

Per Location

X **All-Risk Installation Floater:** Builder's risk completed value form based on the total value of the project, providing coverage for work performed, equipment, supplies and materials at the project location, as well as any off-site storage location.

Pollution Legal Liability Insurance in an amount of not less than:

\$1,000,000 in the aggregate

\$2,000,000 in the aggregate

\$3,000,000 in the aggregate

\$4,000,000 in the aggregate

\$5,000,000 in the aggregate

Per Policy

Per Project or Job

Per Location

Acceptance of a Certificate of Insurance and/or approval by ECWA shall not be construed to relieve the outside vendor of any obligations, responsibilities or liabilities.

Certificates of Insurance should be e-mailed to AALESSI@ECWA.ORG, or mailed to Mr. Anthony Alessi, ECWA Claims Representative/Risk Manager, Erie County Water Authority, 295 Main Street – Room 350, Buffalo, New York 14203-2494, or If you have any questions you can contact Mr. Alessi by e-mail or phone (716) 849-8477.

Please refer to the bid and the contract document(s) for additional information regarding insurance requirements.

SECTION 01270

MEASUREMENT AND PAYMENT

PART 1 - GENERAL

1.01 DESCRIPTION

- A. The items listed below beginning with Article 1.05, refer to and are the same pay items listed in the Bid Form. They constitute all of the pay items for the completion of the Work. No direct or separate payment will be made for providing miscellaneous temporary or accessory works, plant, services, layout surveys, job signs, sanitary requirements, permits (except those furnished by the Authority), testing, safety devices, approval and record drawings, water supplies, power, maintaining traffic, removal of waste, watchmen, bonds, insurance, test pits and all other requirements of the General Conditions, Supplementary Conditions and the General Requirements. Compensation for all such services, things and materials shall be included in the prices stipulated for the lump sum and work unit price pay items listed herein.
- B. The lump sum and unit bid prices will be deemed to include an amount considered by CONTRACTOR to be adequate to cover CONTRACTOR'S overhead and profit for each separately identified item.
- C. The CONTRACTOR shall furnish all labor, materials, tools, equipment, services and all appurtenances necessary to perform all work required, at the unit or lump sum prices for the items listed in the Bidder's Proposal. Each bid item shall include all costs to perform all work to complete each item. Work shall include, but is not necessarily limited to, clearing and grubbing, earth excavation, rock excavation, disposal of excess excavated material, handling of all water, dewatering, earth backfill, select backfill, pipe bedding and encasement, concrete cradle, concrete encasement, concrete cover, piping, water service tubing, saddles, curb stops, curb boxes, bends, reducers, tees, valves, valve boxes, hydrants, and all other fittings, traffic control, permits, test pits, replacement of sidewalks, curbs, underdrain, drainage, curb receivers, ditches, driveways, rip-rap, driveway culverts, headwalls, temporary resurfacing, all final restoration, connections to existing watermains, testing, disinfection and maintaining water service to consumers.
- D. Each of the bid items shall also include the cost required in supporting and protecting existing utilities while working under, over, or alongside or near the utility. Also included is the protection of overhead telephone, cable, electric power or other lines and the supporting of poles, if required.
1. The utilities likely to be encountered include:
 - a. Storm and sanitary sewers.
 - b. Gas, water, electric, telephone, fiber optic, and cable TV house service connections.

- c. Overhead and underground telephone, fiber optic, cable TV and electric power lines.
 - d. Other Watermains.
 - 2. The cost of repairing any damage to the various utilities done during the installation of the work shall be included in the various bid items.
- E. Where fixed minimum unit prices are called for under an item heading, the bidder shall include a price not less than the stated minimum. Bidders' Proposals received which include a unit price less than the stated minimum shall be adjusted to meet the minimum unit price.

1.02 ENGINEER'S ESTIMATE OF QUANTITIES

- A. ENGINEER'S estimated quantities for unit price pay items, as listed in the Bid Form, are approximate only and are included solely for the purpose of comparison of Bids. OWNER does not expressly or by implication agree that the nature of the materials encountered below the surface of the ground or the actual quantities of material encountered or required will correspond therewith and reserves the right to increase or decrease any quantity or to eliminate any quantity as OWNER may deem necessary. Except as provided in Article 1.03, CONTRACTOR or OWNER will not be entitled to any adjustment in a unit bid price as a result of any change in an estimated quantity and agrees to accept the aforesaid unit bid prices as complete and total compensation for any additions caused by changes or alterations in the Work ordered by OWNER.

1.03 ADJUSTMENT OF UNIT PRICES FOR INCREASE OR DECREASE OF ESTIMATED QUANTITIES

- A. For bid items paid for on a unit price basis, increases or decreases in the quantity of an item of Work will be determined by comparing the total payable quantity of Work with ENGINEER'S estimated quantity as shown in the Bid Form. Increase or decreases will only be considered if the Schedule of Values as required in Section 01290 has been prepared, submitted, and approved.
- B. If the total payable quantity of any unit price item of Work, which has an as-bid computed total value of five percent or more of the sum of the as-bid computed total values of all items bid, varies from ENGINEER'S estimate of quantity therefore by more than 50 percent, the unit price of that item will be a subject of review by ENGINEER. If warranted, an equitable adjustment will be made by means of a Change Order to credit OWNER with any reduction in cost or to compensate CONTRACTOR for any increase in cost resulting from the change in quantity. This review of the adjustment will be made at a time ENGINEER deems reasonable and proper.
- C. Payment for any unit price item of Work, which has an as-bid computed total value of less than five percent of the sum of the as-bid computed total values of all items

bid, will be made at the unit price bid regardless of an increase or decrease in quantity.

1.04 RELATED PROVISIONS

- A. Payments to CONTRACTOR: Refer to General Conditions and Agreement.
- B. Changes in Contract Price: General Conditions.
- C. Schedule of Values: Section 01290.

1.05 BID ITEMS

- A. ITEM 1 - WATERMAIN CONNECTIONS FOR LARGE SERVICES, MAIN EXTENSIONS AND HYDRANTS
 - 1. Work Included:
 - a. This item includes all labor, equipment, and incidentals required to install, test, disinfect, and place into service Watermain Connections of the size, class, depth and materials shown on the drawings and specified herein, except that specifically included under other items of the Contract.
 - b. Only one connection 3-inches and larger to an existing watermain or recently installed large service per excavation will be paid. OWNER shall have sole discretion to determine what is considered an excavation. No separate or additional payment will be made for multiple connections at the same excavation. Payment for such cases will be based on a cost per linear foot of the applicable sub-sections of Item 1E or Item 3 for the total length with no deduction for the first 10 LF. Domestic water service connections will be paid as specified elsewhere in Item 2.
 - c. No separate or additional payment will be made for connections to dead-ended watermains. Payment for such cases will be based on a cost per linear foot of either the applicable sub-sections of Item 1E or Item 3. A dead-ended watermain is considered to be fed from one direction and not part of a looped system. OWNER shall have sole discretion to determine what is considered a dead-ended watermain.
 - d. Watermain Connection materials shall be furnished by OWNER. This item also includes hauling, storing and distributing all materials by CONTRACTOR from OWNER'S Service Center to the site of the work.
 - e. The work shall include all exploratory excavations to locate the existing watermain, earth excavation, earth backfill, tapping the main, installing saddles or sleeves and installing piping, valves and fittings.
 - f. This item includes installation of pipe harnessing, bolts and glands for pipe and fittings, furnishing and installing pipe bedding, furnishing and installing thrust blocks, furnishing and installing temporary and permanent blocking, polyethylene encasement for

ductile iron pipe and fittings, magnetic pipe marking tape, backfilling, compaction, testing, disinfection, sampling points, clearing and grubbing, topsoil stripping, tree removal and disposal, dewatering, shoring, sheeting and all other materials and requirements not specifically defined in other bid items.

- g. When Casing Pipes and the push/drill or open cut method is used for road crossings, all labor and equipment required to install the Large Service Piping into the Casing Pipe is included in this item. Casing Pipe is included for payment elsewhere.
 - h. This item includes all costs for locating all underground utilities via exploratory excavations (water, sewer, gas, storms drains, electric, etc.,) working under, over, alongside, near all existing utilities and all other work required for a complete installation.
 - i. This item includes flushing the entire service as required and cleaning the existing meter and also demonstrating that all system components properly operate.
 - j. This item includes temporary surfaces for all disturbed streets, driveways and sidewalks, as required.
 - k. This item includes all cost associated with performing work in accordance with the requirements of the Town, County or State agencies having jurisdiction.
 - l. Rock Excavation, Select Backfill, and Permanent Restoration is included for payment elsewhere.
2. Measurement:
- a. The quantity to be paid for under Item 1A, 1B, and 1D shall be the actual number of Watermain Connections installed as shown, specified or directed.
 - b. Each Watermain Connections shall include the first 10-feet of watermain pipe. Additional watermain beyond 10-feet shall be measured for payment at the unit price bid per linear foot for Item 1E or Item 3
 - c. Item 1E includes installation of watermain beyond 10 feet for work 200 feet or less up to 8 feet deep (as measured from grade to invert) as shown, specified, or required. Additional excavation and backfill over 8 feet deep shall be measured and paid under Item 5C and 5D. The lengths shall be measured along the centerline of the pipe without deduction for line valves and/or fittings.
 - d. Items 1A, 1B, and 1D include installation of watermain connections and 10 feet of watermain for large services, main extension, and hydrants up to 8 feet deep (as measured from grade to invert) as shown, specified, or required. Additional excavation and backfill over 8 feet deep shall be measured and paid under Item 5E and 5F.
3. Payment:
- a. The unit prices bid for this item shall be full compensation for furnishing all labor, equipment and materials not furnished by

OWNER required to install, test, disinfect and place into service the Watermain Connections.

- b. Only one connection 3-inches and larger to an existing watermain or recently installed large service per excavation will be paid. No separate or additional payment will be made for multiple connections at the same excavation. Payment for such cases will be based on a cost per linear foot of the applicable sub-sections of Item 1E or Item 3 for the total length with no deduction for the first 10 LF. Domestic water service connections will be paid as specified elsewhere in Item 2. Connections to dead-end mains will be included for payment under Item 1E or Item 3.
- c. The subdivisions of this item are:
 - Item 1 - Watermain Connections for Large Services, Main Extensions and Hydrants
 - 1A Watermain Connections on Ductile Iron, Cast Iron, Asbestos Cement or Polyvinyl Chloride Watermain
 - 1B Watermain Connections on SP-5 or SP-12 Prestressed Concrete Cylinder Pipe
 - 1C Not used.
 - 1D Cut in Tee Installation on existing Ductile Iron, Cast Iron, Asbestos Cement, or Polyvinyl Chloride Watermain
 - 1E Watermain Extensions and Hydrants which are less than 200 feet in length

B. ITEM 2 - SMALL SERVICE INSTALLATION

1. Work Included:

- a. This item includes all labor, equipment and incidentals required to install, test, disinfect and place into service Small Service Installation of the size, class, depth and materials shown on the drawings and specified herein, except that specifically included under other items of the Contract.
- b. Small Service Installation materials shall be furnished by OWNER. This item also includes hauling, storing and distributing all materials by CONTRACTOR from OWNER'S Service Center to the site of work.
- c. The work shall include all exploratory excavations to locate the existing watermain, clearing and grubbing, earth backfill, tapping the main, installing saddles, installing the service corporation stops, installing type K copper service piping with flared fittings and connecting the new service to the existing watermain by installing a new curb stop and box.
- d. When the push/drill method is used, all labor, material and equipment required to install the services, including pushing/drilling and receiving pits, shall be included in this item. No extra payment will be made if rock, boulders or other obstacles are encountered during

the pushing/drilling operation or if multiple pushes/drills are necessary to install a proper service.

- e. This item includes all costs for locating all underground utilities via exploratory excavations (water, sewer, gas, storm drains, electric, etc.,) working under, over, alongside, near all existing utilities and all other work required for a complete installation.
 - f. This item includes flushing the entire service as required and cleaning the existing meter and also demonstrating that all system components properly operate.
 - g. This item includes temporary surface for all disturbed streets, driveways and sidewalks, as required.
 - h. This item includes all cost associated with performing work in accordance with the requirements of the Town, County or State agencies having jurisdiction.
 - i. Select backfill along the length of the service piping is included for payment elsewhere. No separate payment will be made for select backfill for pushing/boring pits and receiving pits.
 - j. Rock Excavation and Permanent Restoration is included for payment elsewhere.
 - k. This item includes all cost to connect to lead or galvanized service and shall not result in additional costs to the OWNER.
2. Measurement:
- a. The quantity to be paid for under this item shall be the actual number of Small Service Installations installed as shown, specified or directed.
 - b. Each Small Service Installation shall include the first 10-feet of copper tubing. Additional copper tubing beyond 10-feet shall be measured for payment at the unit price bid per linear foot for Item 2C and Item 2D.
 - c. This item includes installation of Small Services up to 8 feet deep (as measured from grade to invert) as shown, specified, or required. Additional excavation and backfill beyond 8 feet deep shall be measured and paid under Items 5C and 5D.
3. Payment:
- a. The unit price bid for this item shall be full compensation for furnishing all labor, equipment and materials not furnished by OWNER required to install, test, disinfect and place into service the Small Service Installation.
 - b. The subdivisions of this item are:
 - Item 2 - Small Service Installation
 - 2A For installation of ¾" to 1" Small Service
 - 2B For installation of 1½" to 2" Small Service
 - 2C For installation of ¾" to 1" Small Service beyond 10 feet
 - 2D For installation of 1½" to 2" Small Service beyond 10 feet

C. ITEM 3 - WATERMAIN FOR MAIN EXTENSIONS LONGER THAN 200 FEET IN LENGTH

1. Work Included:

- a. This item includes all labor, equipment and incidentals required to install, test, disinfect and place into service Watermains of the size, class, depth and materials shown on the drawings and specified herein, except that specifically included under other items of the Contract.
- b. This item includes the cost of locating the existing watermain and connecting to same.
- c. Watermain materials shall be furnished by OWNER. This item also includes hauling, storing and distributing all materials from OWNER'S Service Center to the site of the work.
- d. This item includes installation of pipe harnessing, bolts and glands for pipe and fittings, excavation, furnishing and installing pipe bedding, furnishing and installing thrust blocks, furnishing and installing temporary and permanent blocking, polyethylene encasement for ductile iron pipe and fittings, magnetic pipe marking tape, backfilling, compaction, sampling points, clearing and grubbing, topsoil stripping, tree removal and disposal, dewatering, shoring, sheeting and all other materials and requirements not specifically defined in other bid items.
- e. This item includes flushing, sampling and testing, pressure and leakage testing, and disinfection of the Watermain and fittings prior to connection to existing watermains. The Watermain and valves are not considered pressure or leakage tested until the pipe complies with the specification. All retesting is at the expense of the CONTRACTOR.
- f. Rock Excavation, Select Backfill and Permanent Restoration are included for payment elsewhere

2. Measurement:

- a. The quantity to be paid for under this item shall be measured for payment at the unit price bid per linear foot installed as shown, specified or directed. The lengths shall be measured along the centerline of the pipe without deduction for line valves and/or fittings.
- b. This item includes installation of Watermain for Main Extension Longer than 200 feet up to 8 feet deep (as measured from grade to invert) as shown, specified, or required. Payment for additional excavation and backfill over 8 feet deep shall be measured and paid under Items 5C and 5D.

3. Payment:

- a. The unit prices bid per linear foot shall be full compensation for furnishing all labor, equipment and incidentals necessary to furnish, deliver, install, test, disinfect and place into service the Watermain as shown, specified or directed.

- b. The subdivisions of this item are:
 Item 3 - Watermain
 - 3A 8-inch DI or PVC Watermain
 - 3B 10-inch DI or PVC Watermain
 - 3C 12-inch DI Watermain

D. **ITEM 4 - FIRE HYDRANTS**

1. **Work Included:**
 - a. This item includes all labor, equipment and incidentals required to install and place into service fire hydrants and appurtenances off of new or existing watermains as shown, specified or directed.
 - b. This item includes furnishing and installing temporary and permanent concrete blocking as required.
 - c. Fire Hydrant materials shall be furnished by OWNER. This item also includes hauling, storing and distributing all materials by CONTRACTOR from OWNER'S Service Center to the site of work.
 - d. The cost of tapping or installing a cut-in tee to an existing main and installing hydrant piping (with no payment for the first 10 LF) will be paid under applicable sub-sections of Item 1. The cost of a tee connection to a new main shall be included for payment under Item 4A and installing the hydrant piping (with no deduction for the first 10 LF) will be paid under the applicable sub-sections of Item 1E.
2. **Measurement:**
 - a. The quantity to be paid for under this item shall be the actual number of fire hydrants installed off of new or existing watermains as shown, specified or directed.
3. **Payment:**
 - a. The unit price bid for this item shall be full compensation for furnishing all labor, equipment and incidentals required to install, disinfect and test fire hydrants as shown, specified or directed.
 - b. The subdivisions of this item are:
 Item 4 - Fire Hydrants
 - 4A Fire Hydrant installation

E. **ITEM 5 - ROCK EXCAVATION, TEST PIT EXCAVATION/BACKFILL, AND EXTRA EXCAVATION/BACKFILL**

1. **Work Included:**
 - a. Item 5A includes all labor, materials, equipment and incidentals to remove rock by hand methods such as drilling, jacking, hammering and mechanical excavation to the lines and grades as shown, specified or directed.
 - b. Item 5B includes all labor, materials, equipment and incidentals necessary to install test pit excavation and backfill.
 - c. These items include proper disposal of surplus material and rock encountered.

- d. Items 5C, 5D, 5E, and 5F Extra Excavation/Backfill includes all labor, materials, equipment, and incidentals required to perform extra excavation and backfill, as directed, shown, or required. This item also includes sheeting, shoring, dewatering, backfilling, compaction, and disposal of excavated material.
2. Measurement:
- a. The quantity to be paid for under Item 5A shall be the actual number of cubic yards of rock removed from within the trench pay limits as shown, specified or directed.
 - b. The quantity to be paid for under Item 5B shall be the actual number test pit excavations performed as shown, specified or directed.
 - c. The pay limits for rock excavations are defined as a depth of six inches (6") below the bottom of the pipe and a maximum width of 24 inches (24") greater than the outside diameter of the pipe, exclusive of bells, branches, hubs, spurs, cradles or structures if encountered.
 - d. Rock shall be measured for payment within the pushing/boring pits and receiving pits only along the length of piping or service within these pits to the pay limits specified herein. In a bore pit for a casing pipe, rock will be measured up to a maximum length of 25 feet and payment shall be made based on the pay limits specified herein. No payment for rock excavation will be made to further construct the pushing/boring and receiving pits.
 - e. Rock shall be uncovered prior to removal in sections acceptable to the ENGINEER, so that it may be measured prior to removal.
 - f. The pay limits for the test pit shall be five (5) feet by five (5) feet by eight (8) feet deep.
 - g. Excavation of rock and test pit beyond the pay limits is the responsibility of the CONTRACTOR and payments shall be made only for the amount of rock removed in accordance with the pay limits and as specified herein.
 - h. The quantity to be paid for under Items 5C and 5D shall be the number of linear feet of additional depth excavation and backfill as directed, shown, or required and shall be based on the trench pay limits specified herein. This item shall be used for additional excavation and backfill in conjunction with Item 1E, 2, 3, and 8B.
 - i. The quantity to be paid for under Items 5E and 5F shall be full compensation for additional depth excavation and backfill as directed, shown, or required and shall be based on a per each basis. This item shall be used for additional excavation and backfill in conjunction with Items 1A, 1B, and 1D.
3. Payment:
- a. The unit price bid per cubic yard for Item 5A shall be full compensation for furnishing all labor, material, equipment and incidentals required to remove Rock as shown, specified or directed.
 - b. The unit price bid per each for Item 5B shall be full compensation for furnishing all labor, materials, equipment and incidentals necessary to

install Test Pit excavation and Backfill as shown, specified or directed.

- c. The unit price bid per linear foot for item 5C and 5D shall be full compensation for all labor, material, equipment, and incidentals required to perform additional excavation and backfill.
- d. The lump sum price bid per each of Items 5E and 5F shall be full compensation for all labor, material, equipment, and incidentals required to perform additional excavation and backfill.
- e. The subdivisions of this item are:

Item 5 - Rock Excavation, Test Pit Excavation/Backfill, and Extra Excavation/Backfill

- 5A Rock Excavation
- 5B Test Pit Excavation and Backfill
- 5C For Extra Excavation and Backfill (8 to 12 feet deep), LF
- 5D For Extra Excavation and Backfill (over 12 feet deep), LF
- 5E For Extra Excavation and Backfill (8 to 12 feet deep), per Each
- 5F For Extra Excavation and Backfill (over 12 feet deep), per Each

F. ITEM 6 - PAVEMENT, SIDEWALK, DRIVEWAY, LAWN AND LANDSCAPE RESTORATION

1. Work Included:

- a. This item includes all labor, materials, equipment, sampling, testing and incidentals necessary for additional clearing and grubbing, when ordered, and to restore asphalt, concrete, stone or gravel surfaces, landscaping, curbs/gutters, lawn areas and other features disturbed, damaged or destroyed during the performance of the work.
- b. For asphalt restoration, this item shall include the application of a bituminous tack coat at all saw cut areas and between asphalt pavement layers as shown, specified or directed.
- c. This item shall include any saw cutting of asphalt or concrete as shown, specified or directed.
- d. This item shall include the proper consolidation of subgrade before installing pavement.
- e. This item shall include the permanent and final repaving of all streets, driveways and similar surfaces, where pavement has been removed, disturbed, settled or damaged by or as a result of performance of this Contract.
- f. This item shall include the application of permanent pavement markings as required by the appropriate highway jurisdiction.
- g. This item shall include maintenance of all lawn areas until establishment of a good stand of grass and the first mowing.

- h. Restoration of all areas outside the pay limits is the responsibility of the CONTRACTOR and shall conform to the Contract Requirements which apply.
 - i. The tree removal item includes all costs for complete tree removal including tying of limbs, overhead and underground utility protection, maintenance and protection of traffic, notification of proper authorities, branch, trunk and stump removal and disposal, replacement fill material including new topsoil and cleanup.
 - j. The tree replacement item includes all costs for tree planting with trees in like and kind with a minimum six foot height and three inch minimum diameter as shown, specified or directed.
2. Measurement:
- a. The quantity of additional Clearing and Grubbing shall be the number of linear feet of watermain where clearing and grubbing was installed within the limits as shown, specified or directed.
 - b. The quantity of pavement restoration for which payment will be made will be computed using the payment dimension on the trench payment limits detail without regard to the actual dimension or quantities required and the number of linear feet of watermain installed as measured along the centerline of the pipe without regard for valves or fittings. The area shall be figured on the basis of square yardage of area actually disturbed within the trench limits as shown, specified or directed.
 - c. The quantity of sidewalk restoration shall be the number of square yards installed within the limits as shown, specified or directed.
 - d. The quantity of driveway restoration shall be the number of square yards installed within the limits as shown, specified or directed.
 - e. The quantity of lawn restoration shall be the number of linear feet of watermain installed where landscape restoration was performed within the limits as shown, specified or directed. The length shall be measured along the centerline of the pipe without regard for valves or fittings. Separate items are listed for restorations less than 200 feet in length and more than 200 feet in length.
 - f. The quantity for landscape restoration shall be the actual number of trees and/or shrubs as ordered or specified.
 - g. Payment of restoration for bore pits of casing pipe installations for asphalt and concrete shall be based on a maximum bore pit size up to 25 feet long and 8 feet wide. Restoration at the receiving pit shall be based on trench pay limits as specified herein.
3. Payment:
- a. The unit prices bid for Restoration items shall be full compensation for all labor, material, equipment, sampling, testing and incidentals necessary for Restoration as shown, specified or directed.
 - b. The subdivisions of this item are:
Item 6 - Pavement, Sidewalk, Driveway, Lawn and Landscape Restoration

6A	Additional Clearing and Grubbing	LF
6B	Pavement Restoration	
6B1	Asphalt	SY
6B2	Concrete	SY
6B3	Concrete with Asphalt Top	SY
6B4	Asphalt Shoulder	SY
6B5	Concrete Gutter Curb	CY
6B6	Concrete Curb	LF
6B7	Cold Milling & Asphalt Top under 25 SY	SY
6B8	Cold Milling & Asphalt Top over 25 SY	SY
6C	Sidewalks	
6C1	Asphalt	SY
6C2	Concrete	SY
6D	Driveways	
6D1	Asphalt	SY
6D2	Concrete	SY
6E	Lawn Restoration	
6E1	Lawn (Less than 100 LF)	LF
6E2	Lawn (More than 100 LF)	LF
6F	Landscape Restoration	
6F1	Deciduous Trees (1½" - 2")	Ea
6F2	Evergreen Trees (4' - 5')	Ea
6F3	Deciduous Trees (3' - 4')	Ea
6F4	Evergreen Shrubs (2½' - 3')	Ea

G. ITEM 7 - SELECT BACKFILL

1. Work Included:
 - a. Item 7A includes all labor, material, sampling and testing, plant equipment and incidentals required to furnish and install the select backfill material as shown, specified or directed.
 - b. Item 7B includes all labor, material, sampling and testing, plant equipment and incidentals required for removal and replacement of rip-rap as shown, specified or directed.
2. Measurement:
 - a. The quantity to be paid for under Item 7A shall be the number of cubic yards of select backfill placed as shown, specified or directed. Payment will be to the limits shown on the trench detail or for bore pits up to a maximum width of 8 feet and up to a maximum length of 25 feet. Select backfill for receiving pits shall be based on trench pay limits.
 - b. The quantity to be paid for under Item 7B shall be the number of linear feet as shown, specified or directed to the limits shown.
 - c. Measurement shall not be based upon loose or truck-ticket quantities.

3. Payment:

- a. The unit prices bid per this item shall be full compensation for furnishing all labor, material, plant, sampling and testing, equipment, compaction and incidentals necessary to furnish and install select backfill and removal and replacement of rip-rap material within the pay limits shown on the drawing as shown, specified or directed.
- b. The subdivisions of this item are:

Item 7 - Select backfill

7A	Select Backfill	
7A1	Select Backfill under 75 CY	CY
7A2	Select Backfill over 75 CY	CY
7B	Rip-Rap Removal and Replacement	

H. ITEM 8 - CASING PIPE

1. Work Included:

- a. This item includes all labor, material, equipment and incidentals required to furnish and install casing pipes as shown, specified or directed. This item also includes annular fill within the casing pipe, brick bulkheads, anodes for cathodic protection, excavation of receiving pits and boring pits, sheeting, dewatering, skids or spacers, protection of existing structures and utilities and all other work required for a complete installation.
- b. All sheeting and shoring necessary to construct the boring and receiving pits shall be included in the price bid for this item. This shall include any sheeting and shoring directed to be left in place by the ENGINEER or by the agency having jurisdiction over the R.O.W., or any left in place for the convenience of the CONTRACTOR.
- c. Select Backfill for the boring pit and receiving pit shall be included for payment under Item 7A.
- d. Item 8C includes payment of additional cost for furnishing all additional labor, materials, equipment, and incidentals required to perform boring of casing pipes to advance the casing pipe in rock to the lines and grade as shown, specified, or directed.
- e. Test Pit Excavations required to determine the locations and elevation of existing utilities and obstacles, shall be included in the cost of this item. Where directed by the ENGINEER, these excavations shall be backfilled with select fill which cost shall also be included in this item.
- f. Installation of the carrier pipe shall be paid for under Item No. 1. Rock Excavation shall be included for payment under Item 5A.

2. Measurement:

- a. The quantity to be paid for under Items 8A and 8B shall be the linear foot of casing pipe installed as shown, specified, or directed.
- b. The quantity to be paid for under Item 8C shall be the actual amount of rock boring in linear feet, necessary and required to advance the

casing in rock to the limits as shown, specified, or directed. The lengths shall be measured along the centerline of the casing and only for the length in rock.

3. Payment:

- a. The unit price bid per linear foot for this item shall be the full compensation for furnishing all labor, material, equipment, and incidentals required to furnish and install casing pipe.
- b. The unit price bid per linear foot for Item 8C shall be full compensation for furnishing all additional labor, materials, equipment, and incidentals required to perform rock boring to advance casing pipe in rock as shown, specified, or directed.
- c. The subdivisions of this item are:

Item 8 - Casing Pipe

Item 8A - Casing Pipe Installation by Tunneling, Jacking or Boring

- 8A1 12" Diameter
- 8A2 16" Diameter
- 8A3 18" Diameter
- 8A4 20" Diameter
- 8A5 24" Diameter

Item 8B - Casing Pipe Installation by Open Cut

- 8B1 12" Diameter
- 8B2 16" Diameter
- 8B3 18" Diameter
- 8B4 20" Diameter
- 8B5 24" Diameter

Item 8C - Additional for Boring Casing Pipe in Rock

- 8C1 12" through 18" Diameter
- 8C2 20" through 24" Diameter

I. ITEM 9 - CREW LABOR AND EQUIPMENT

1. Work included:

- a. This item includes providing a crew consisting of labor and equipment to be used when ordered by ENGINEER to perform water service related work in addition to work covered elsewhere by unit price items.
- b. The crew included under Item 9A1 shall consist of, at a minimum, two skilled laborers; one supplemental laborer; one wheeled loader/backhoe; one tandem dump truck; and, one fully equipped tool and equipment truck with trailer.
- c. Additional payment shall not be made if CONTRACTOR provides additional labor or equipment beyond what is specified herein or ordered.
- d. This item includes all related costs of CONTRACTOR, including, but not limited to, supervision, wages, benefits, operating costs,

- overhead, profit, fuel, insurance, permits, licenses, home office costs, maintenance and protection of traffic, permit conditions, etc.
- e. The use of crew labor and equipment will be ordered by ENGINEER when, at a specific site that is scheduled for a service installation, it is so determined that it would be in the best interest to the Authority that related work be performed.
 - f. This item may also be used by ENGINEER to order other Work when not covered by other unit price items.
 - g. OWNER shall furnish CONTRACTOR all waterline materials for Work when so ordered under this item. It shall be the CONTRACTOR'S responsibility to obtain these materials at no additional cost to OWNER and the cost shall be included herein. The CONTRACTOR shall furnish and install select backfill and cold patch and the cost shall be included herein.
 - h. Final restoration shall be performed by the CONTRACTOR.
2. Measurement:
- a. The quantity to be paid for under this item shall be the actual number of crew labor and equipment hours performed by CONTRACTOR as ordered by ENGINEER.
 - b. Payment for Item 9A1 shall start when the crew and equipment arrives at the site and ends when the crew and equipment leaves the site when the Work is completed or when ENGINEER orders the crew time ended. There shall be no payment for travel time to or from the CONTRACTOR'S place of business. Payment will be made for travel time between two Work sites for the equipment necessary for the second or succeeding work.
 - c. The OWNER reserves the right to dismiss the crew from a site when it is determined that it is no longer needed. The CONTRACTOR may elect, for his own convenience, to keep the dismissed labor and equipment on the site or return them to his place of business when the job is done, but no payment shall be made for them.
3. Payment:
- a. The unit price bid for this item shall be full compensation for furnishing all labor, equipment, and incidentals required to perform Crew Labor and Equipment as ordered or necessary.
 - b. The subdivisions of this item are:
 - 9. Crew Labor and Equipment
 - 9A1 - Crew Labor and Equipment.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION (NOT USED)

END OF SECTION

ERIE COUNTY WATER AUTHORITY
BUFFALO, NEW YORK

LARGE SERVICES CONTRACT
FEBRUARY 1, 2019 THROUGH JANUARY 31, 2021
PROJECT NO: 201900005

(This Bid Form shall not be detached from the Project Manual. The entire Project Manual shall be returned with the executed Bid.)

BID FORMS

BID FOR:

ERIE COUNTY WATER AUTHORITY
LARGE SERVICES CONTRACT
FEBRUARY 1, 2019 THROUGH JANUARY 31, 2021
PROJECT NO. 201900005

BID TO:

Erie County Water Authority
295 Main Street, Room 350
Buffalo, New York 14203

BID FROM:

Kandey Company, Inc
(Print or Type Name of Bidder)

(/A Corporation/A Partnership/A Limited Liability Company/A Individual/A Joint Venture/(Bidder to strike out inapplicable terms.))

Gentlemen:

- 1.01 The undersigned Bidder proposes and agrees, if this Bid is accepted, to enter into an Agreement with OWNER in the form included in the Bidding Documents to perform all Work as specified or indicated in the Bidding Documents for the price(s) and within the times indicated in this Bid and in accordance with the Bidding Documents.
- 2.01 Bidder accepts all of the terms and conditions of the Notice to Bidders and Instructions to Bidders, including without limitation those dealing with the disposition of Bid security. This Bid will remain open subject to acceptance for the time period set forth in the Instruction to Bidders. Bidder will sign the Agreement and will furnish the required contract security, and other required documents within the time periods set forth in the Bidding Documents.

**ERIE COUNTY WATER AUTHORITY
 LARGE SERVICES CONTRACT
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 PROJECT No: 201900005**

3.01 In submitting this Bid, Bidder represents, as set forth in the Agreement, that:

- A. Bidder has examined and carefully studied the Bidding Documents, the other related data identified in the Bidding Documents, if any, and the following Addenda receipt of all of which is hereby acknowledged.

<u>Addendum No.</u>	<u>Date Received</u>	<u>Addendum No.</u>	<u>Date Received</u>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

- B. Bidder has visited the Site and become familiar with and is satisfied as to the general, local and Site conditions that may affect cost, progress, and performance for the Work.
- C. Bidder is familiar with and is satisfied as to all federal, state and local Laws and Regulations that may affect cost, progress and performance of the Work.
- D. Bidder has carefully studied all: (1) reports of explorations and tests of subsurface conditions at or contiguous to the Site and all drawings of physical conditions in or relating to existing surface or subsurface structures at or contiguous to the Site (except Underground Facilities) which have been identified in the Supplementary Conditions as provided in paragraph 4.02 of the General Conditions, and (2) reports and drawings of a Hazardous Environmental Condition identified at the Site, if any, which have been identified in the Supplementary Conditions as provided in paragraph 4.06 of the General Conditions.
- E. Bidder has obtained and carefully studied (or assumes responsibility for having done so) all examinations, investigations, explorations, tests, studies and data concerning conditions (surface, subsurface and Underground Facilities) at or contiguous to the Site which may effect cost, progress or performance of the Work or which relate to any aspect of the means, methods, techniques, sequences and procedures of construction to be employed by Bidder, including applying the specific means, methods, techniques, sequences, and procedures of construction expressly required by the Bidding Documents to be employed by Bidder, and safety precautions and programs incident thereto.

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- F. Bidder does not consider that any further examinations, investigations, explorations, tests, studies or data are necessary for the determination of this Bid for performance of the Work at the price(s) and within the times and in accordance with the other terms and conditions of the Bidding Documents.
- G. Bidder is aware of the general nature of work to be performed by OWNER and others at the Site that relates to the Work as indicated in the Bidding Documents.
- H. Bidder has correlated the information known to Bidder, information and observations obtained from visits to the Site, reports and drawings identified in the Bidding Documents and all additional examinations, investigations, explorations, tests, studies and data with the Bidding Documents.
- I. Bidder has given ENGINEER written notice of all conflicts, errors, ambiguities, or discrepancies that Bidder has discovered in the Bidding Documents, and the written resolution thereof by ENGINEER is acceptable to Bidder.
- J. The Bidding Documents are generally sufficient to indicate and convey understanding of all terms and conditions for the performance of the Work for which this Bid is submitted.
- K. The quantities for the unit price items are unpredictable and the ENGINEER has inserted certain quantities in the proposal to be used solely for purpose of comparison of bids. The Bidder shall make no claims for anticipated profits, for loss of profits, or for other damages as the result of changes in the quantities purchased.
- L. Fixed minimum unit prices may have been established for some of the items in the Bid. The prices represent the minimum amounts which will be paid the CONTRACTOR for these items. The Bidder shall include a price not less than the stated minimum. If in the opinion of the Bidder these prices do not reflect the actual value of the work involved, the Bidder may void the given fixed minimum unit price for that specific item and enter a higher unit price in the spaces provided in the Bid Form sheets. Bidder's Proposals received which include a unit price less than the stated minimum shall be adjusted to meet the fixed minimum unit price.

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4.01 Bidder further represents that this Bid is genuine and is not made in the interest of or on behalf of any undisclosed individual or entity and is not submitted in conformity with any agreement or rules of any group, association, organization or corporation; Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid; Bidder has not solicited or induced any individual or entity to refrain from bidding; Bidder has not sought by collusion to obtain for itself any advantage over any other Bidder or over OWNER; and that no person or persons acting in any official capacity for the OWNER are directly or indirectly interested in this Bid, or in any portion of the profit thereof.

5.01 In case of discrepancy, written figures shall govern.

6.01 Bidder will complete the Work in accordance with the Contract Documents for:

<u>Description</u>	<u>Estimated Quantities</u>	<u>Computed Totals</u>
Item 1 - Watermain Connections for Large Services, Main Extensions and Hydrants		
Item 1A - Watermain Connection on Ductile Iron, Cast Iron, Asbestos Cement or Polyvinyl Chloride Watermain		
Item 1A1 - For connection of 4" x 4", 6" x 4" or 6" x 6", the Unit Price of <u>Four thousand seven hundred</u> Dollars and <u>zero</u> Cents (\$ 4,700.00) Per Each	4 Ea	\$ <u>18,800.00</u>
Item 1A2 - For connection of 8" x 4", 8" x 6" or 8" x 8", the Unit Price of <u>Four thousand seven hundred</u> Dollars and <u>zero</u> Cents (\$ 4,700.00) Per Each	25 Ea	\$ <u>117,500.00</u>

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<u>Description</u>	<u>Estimated Quantities</u>	<u>Computed Totals</u>
Item 1A3 - For connection of 10" x 4", 10" x 6", 10" x 8", or 10" x 10", the Unit Price of <u>Four thousand seven hundred</u> Dollars and <u>zero</u> Cents (\$ 4,700.00) Per Each	10 Ea	\$ <u>47,000.00</u>
Item 1A4 - For connection of 12" x 4", 12" x 6", 12" x 8", 12" x 10", or 12" x 12", the Unit Price of <u>Four thousand seven hundred</u> Dollars and <u>zero</u> Cents (\$ 4,700.00) Per Each	15 Ea	\$ <u>70,500.00</u>
Item 1A5 - For connection of 16" x 4", 16" x 6", 16" x 8", 16" x 10", or 16" x 12", the Unit Price of <u>Four thousand seven hundred</u> Dollars and <u>zero</u> Cents (\$ 4,700.00) Per Each	8 Ea	\$ <u>37,600.00</u>
Item 1A6 - For connection of 20" x 4", 20" x 6", 20" x 8", 20" x 10", or 20" x 12", the Unit Price of <u>Five thousand two hundred</u> Dollars and <u>zero</u> Cents (\$ 5,200.00) Per Each	1 Ea	\$ <u>5,200.00</u>
Item 1A7 - For connection of 24" x 4" 24" x 6", 24" x 8", 24" x 10", or 24" x 12", the Unit Price of <u>Five thousand two hundred</u> Dollars and <u>zero</u> Cents (\$ 5,200.00) Per Each	3 Ea	\$ <u>15,600.00</u>

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<u>Description</u>	<u>Estimated Quantities</u>	<u>Computed Totals</u>
Item 1B - Watermain Connection on SP-5 or SP-12 Prestressed Concrete Cylinder Pipe		
Item 1B1 - For connection of 16" x 4", 16" x 6", 16" x 8", 16" x 10", or 16" x 12", the Unit Price of <u>Five thousand eight hundred</u> Dollars and <u>zero</u> Cents (\$ 5,800.00) Per Each	2 Ea	\$ <u>11,600.00</u>
Item 1B2 - For connection of 20" x 4", 20" x 6", 20" x 8", 20" x 10", or 20" x 12", the Unit Price of <u>Five thousand eight hundred</u> Dollars and <u>zero</u> Cents (\$ 5,800.00) Per Each	2 Ea	\$ <u>11,600.00</u>
Item 1B3 - For connection of 24" x 4", 24" x 6", 24" x 8", 24" x 10", or 24" x 12", the Unit Price of <u>Five thousand eight hundred</u> Dollars and <u>zero</u> Cents (\$ 5,800.00) Per Each	2 Ea	\$ <u>11,600.00</u>
Item 1B4 - For connection of 30" x 4", 30" x 6", 30" x 8", 30" x 10", or 30" x 12", the Unit Price of <u>Five thousand eight hundred</u> Dollars and <u>zero</u> Cents (\$ 5,800.00) Per Each	1 Ea	\$ <u>5,800.00</u>

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<u>Description</u>	<u>Estimated Quantities</u>	<u>Computed Totals</u>
Item 1B5 - For connection of 36" x 4", 36" x 6", 36" x 8", 36" x 10", or 36" x 12", the Unit Price of <u>Six thousand</u> Dollars and <u>zero</u> Cents (\$ <u>6,000.00</u>) Per Each	1 Ea	\$ <u>6,000.00</u>
Item 1B6 - For connection of 42" x 10" or 42" x 12", the Unit Price of <u>Six thousand five hundred</u> Dollars and <u>zero</u> Cents (\$ <u>6,500.00</u>) Per Each	1 Ea	\$ <u>6,500.00</u>
Item 1B7 - For connection of 48" x 10" or 48" x 12", the Unit Price of <u>Six thousand five hundred</u> Dollars and <u>zero</u> Cents (\$ <u>6,500.00</u>) Per Each	1 Ea	\$ <u>6,500.00</u>
Item 1C - Not used.		
Item 1D - Cut in Tee Installation on existing Ductile Iron, Cast Iron, Asbestos Cement or Polyvinyl Chloride Watermain		
Item 1D1 - For installation of 4" x 3" or 4" x 4" Cut in Tee, the Unit Price of <u>Four thousand four hundred</u> Dollars and <u>zero</u> Cents (\$ <u>4,400.00</u>) Per Each	1 Ea	\$ <u>4,400.00</u>
Item 1D2 - For installation of 6" x 4" or 6" x 6" Cut in Tee, the Unit Price of <u>Four thousand seven hundred</u> Dollars and <u>zero</u> Cents (\$ <u>4,700.00</u>) Per Each	10 Ea	\$ <u>47,000.00</u>

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<u>Description</u>	<u>Estimated Quantities</u>	<u>Computed Totals</u>
Item 1D3 - For installation of 8" x 4", 8" x 6" or 8" x 8" Cut in Tee, the Unit Price of <u>Five thousand</u> Dollars and <u>zero</u> Cents (\$ <u>5,000.00</u>) Per Each	15 Ea	\$ <u>75,000.00</u>
Item 1D4 - For installation of 10" x 4", 10" x 6", 10" x 8", or 10" x 10" Cut in Tee, the Unit Price of <u>Five thousand</u> Dollars and <u>zero</u> Cents (\$ <u>5,000.00</u>) Per Each	3 Ea	\$ <u>15,000.00</u>
Item 1D5 - For installation of 12" x 4", 12" x 6", 12" x 8", 12" x 10", or 12" x 12" Cut in Tee, the Unit Price of <u>Five thousand</u> Dollars and <u>zero</u> Cents (\$ <u>5,000.00</u>) Per Each	10 Ea	\$ <u>50,000.00</u>
Item 1D6 - For installation of 16" x 4", 16" x 6", 16" x 8", 16" x 10", or 16" x 12" Cut in Tee, the Unit Price of <u>Five thousand two hundred fifty</u> Dollars and <u>zero</u> Cents (\$ <u>5,250.00</u>) Per Each	2 Ea	\$ <u>10,500.00</u>
Item 1D7 - For installation of 20" x 4", 20" x 6", 20" x 8", 20" x 10", or 20" x 12" Cut in Tee, the Unit Price of <u>Five thousand eight hundred</u> Dollars and <u>zero</u> Cents (\$ <u>5,800.00</u>) Per Each	1 Ea	\$ <u>5,800.00</u>

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<u>Description</u>	<u>Estimated Quantities</u>	<u>Computed Totals</u>
Item 1E5 - For installation of 10-inch DI or PVC Watermain, the Unit Price of <u>Sixty five</u> Dollars and <u>zero</u> Cents (\$ <u>65.00</u>) Per Linear Foot	150 LF	<u>9,750.00</u>
Item 1E6 - For installation of 12-inch DI Watermain, the Unit Price of <u>Sixty five</u> Dollars and <u>zero</u> Cents (\$ <u>65.00</u>) Per Linear Foot	200 LF	<u>\$ 13,000.00</u>
Item 1E7 - For installation of 16-inch DI Watermain, the Unit Price of <u>Seventy</u> Dollars and <u>zero</u> Cents \$ <u>70.00</u>) Per Linear Foot	100 LF	<u>\$ 7,000.00</u>
Item 1E8 - For installation of 20-inch DI Watermain, the Unit Price of <u>Eighty</u> Dollars and <u>zero</u> Cents (\$ <u>80.00</u>) Per Linear Foot	50 LF	<u>\$ 4,000.00</u>
Item 1E9 - For installation of 24-inch DI Watermain, the Unit Price of <u>Ninety</u> Dollars and <u>zero</u> Cents (\$ <u>90.00</u>) Per Linear Foot	50 LF	<u>\$ 4,500.00</u>

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<u>Description</u>	<u>Estimated Quantities</u>	<u>Computed Totals</u>
Item 2 - Small Service Installation		
Item 2A - For installation of 3/4" to 1" Small Service, the Unit Price of <u>Seven hundred eighty</u> Dollars and <u>zero</u> Cents (\$ <u>780.00</u>) Per Each	30 Ea	\$ <u>23,400.00</u>
Item 2B - For installation of 1 1/2" to 2" Small Service, the Unit Price of <u>Eight hundred ninety</u> Dollars and <u>zero</u> Cents (\$ <u>890.00</u>) Per Each	20 Ea	\$ <u>17,800.00</u>
Item 2C - For installation of 3/4" to 1" Small Service beyond 10 feet, the Unit Price of <u>Thirty two</u> Dollars and <u>zero</u> Cents (\$ <u>32.00</u>) Per Linear Foot	700 LF	\$ <u>22,400.00</u>
Item 2D - For installation of 1 1/2" to 2" Small Service beyond 10 feet, the Unit Price of <u>Fifty three</u> Dollars and <u>zero</u> Cents (\$ <u>53.00</u>) Per Linear Foot	100 LF	\$ <u>5,300.00</u>
Item 3 - Watermain for Main Extensions longer than 200 feet in length		
Item 3A - For installation of 8-inch DI or PVC Watermain, the Unit Price of <u>Fifty three</u> Dollars and <u>zero</u> Cents (\$ <u>53.00</u>) Per Linear Foot	1500 LF	\$ <u>79,500.00</u>

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<u>Description</u>	<u>Estimated Quantities</u>	<u>Computed Totals</u>
Item 3B - For installation of 10-inch DI or PVC Watermain, the Unit Price of <u>Fifty eight</u> Dollars and <u>zero</u> Cents (\$ <u>58.00</u>) Per Linear Foot	500 LF	\$ <u>29,000.00</u>
Item 3C - For installation of 12-inch DI Watermain, the Unit Price of <u>Sixty</u> Dollars and <u>zero</u> Cents (\$ <u>60.00</u>) Per Linear Foot	1500 LF	\$ <u>90,000.00</u>
Item 4 - Fire Hydrants		
Item 4A - For installation of Fire Hydrant, the Unit Price of <u>One thousand three hundred fifty</u> Dollars and <u>zero</u> Cents (\$ <u>1,350.00</u>) Per Each	15 Ea	\$ <u>20,250.00</u>
Item 5 - Rock Excavation, Test Pit Excavation/Backfill and Extra Excavation/Backfill		
Item 5A - For Rock Excavation, (Fixed Minimum Unit Price of \$50.00 per CY) the Unit Price of <u>Three hundred</u> Dollars and <u>zero</u> Cents (\$ <u>300.00</u>) Per Cubic Yard	100 CY	\$ <u>30,000.00</u>
Item 5B - For Test Pit Excavation and Backfill, (Fixed Minimum Unit Price of \$200.00 per each) the Unit Price of <u>Six hundred fifty</u> Dollars and <u>zero</u> Cents (\$ <u>650.00</u>) Per Each	20 Ea	\$ <u>13,000.00</u>

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Description	Estimated Quantities	Computed Totals
<p>Item 5C - For Extra Excavation and Backfill, (8 to 12 feet deep) for additional Main beyond 10', Watermain and Open Cut Casing Pipe, the Unit Price of</p> <p><u>Fifty</u> Dollars and <u>zero</u> Cents (\$ <u>50.00</u>) Per Linear Foot</p>	100 LF	\$ <u>5,000.00</u>
<p>Item 5D - For Extra Excavation and Backfill, (over 12 feet deep) for additional Main beyond 10', Watermain and Open Cut Casing Pipe, the Unit Price of</p> <p><u>Fifty</u> Dollars and <u>zero</u> Cents (\$ <u>50.00</u>) Per Linear Foot</p>	100 LF	\$ <u>5,000.00</u>
<p>Item 5E - For Extra Excavation and Backfill, (8 to 12 feet deep) at Connections on DIP, ACP, PVC, PCCP, and Cut-in-Tees, the Unit Price of</p> <p><u>One thousand five hundred</u> Dollars and <u>zero</u> Cents (\$ <u>1,500.00</u>) Per Each</p>	10 Ea	\$ <u>15,000.00</u>
<p>Item 5F - For Extra Excavation and Backfill, (over 12 feet deep) at Connections on DIP, ACP, PVC, PCCP, and Cut-in-Tees, the Unit Price of</p> <p><u>One thousand five hundred</u> Dollars and <u>zero</u> Cents (\$ <u>1,500.00</u>) Per Each</p>	10 Ea	\$ <u>15,000.00</u>

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<u>Description</u>	<u>Estimated Quantities</u>	<u>Computed Totals</u>
Item 6 - Pavement, Sidewalk, Driveway, Lawn, and Landscape Restoration		
Item 6A - Clearing and Grubbing		
Item 6A1 - For additional Clearing and Grubbing, the Unit Price of <u>Forty</u> Dollars and <u>zero</u> Cents (\$ <u>40.00</u>) Per Linear Foot	250 LF	<u>\$ 10,000.00</u>
Item 6B - Pavement Restoration		
Item 6B1 - For Asphalt Pavement Restoration, (Fixed Minimum Unit Price of \$20.00 per SY) the Unit Price of <u>one hundred twenty five</u> Dollars and <u>zero</u> Cents (\$ <u>125.00</u>) Per Square Yard	400 SY	<u>\$ 50,000.00</u>
Item 6B2 - For Concrete Pavement Restoration, the Unit Price of <u>one hundred sixty five</u> Dollars and <u>zero</u> Cents (\$ <u>165.00</u>) Per Square Yard	100 SY	<u>\$ 16,500.00</u>
Item 6B3 - For Concrete with Asphalt Top Pavement Restoration, the Unit Price of <u>one hundred seventy</u> Dollars and <u>zero</u> Cents (\$ <u>170.00</u>) Per Square Yard	50 SY	<u>\$ 8,500.00</u>
Item 6B4 - For Asphalt Shoulder Restoration, the Unit Price of <u>Ninety</u> Dollars and <u>zero</u> Cents (\$ <u>90.00</u>) Per Square Yard	20 SY	<u>\$ 1,800.00</u>

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<u>Description</u>	<u>Estimated Quantities</u>	<u>Computed Totals</u>
Item 6B5 - For Concrete Gutter Curb Restoration, the Unit Price of <u>one thousand one hundred</u> Dollars and <u>zero</u> Cents (\$ <u>1,100.00</u>) Per Cubic Yard	5 CY	\$ <u>5,500.00</u>
Item 6B6 - For Concrete Curb Restoration, the Unit Price of <u>Eighty five</u> Dollars and <u>zero</u> Cents (\$ <u>85.00</u>) Per Linear Foot	75 LF	\$ <u>6,375.00</u>
Item 6B7 - For Cold Milling and Asphalt Top, under 75 SY at 1 inch to 2 inches of depth the Unit Price of <u>One hundred fifty five</u> Dollars and <u>zero</u> Cents (\$ <u>155.00</u>) Per Linear Foot	250 SY	\$ <u>38,750.00</u>
Item 6B8 - For Cold Milling and Asphalt Top, over 75 SY at 1 inch to 2 inches of depth, the Unit Price of <u>One hundred five</u> Dollars and <u>zero</u> Cents (\$ <u>105.00</u>) Per Linear Foot	500 SY	\$ <u>52,500.00</u>
Item 6C - Sidewalks		
Item 6C1 - For Asphalt Sidewalk Restoration, the Unit Price of <u>Ninety five</u> Dollars and <u>zero</u> Cents (\$ <u>95.00</u>) Per Square Yard	20 SY	\$ <u>1,900.00</u>

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<u>Description</u>	<u>Estimated Quantities</u>	<u>Computed Totals</u>
Item 6C2 - For Concrete Sidewalk Restoration, the Unit Price of <u>One hundred forty five</u> Dollars and <u>zero</u> Cents (\$ <u>145.00</u>) Per Square Yard	200 SY	\$ <u>29,000.00</u>
Item 6D - Driveways		
Item 6D1 - For Asphalt Driveway Restoration, the Unit Price of <u>Ninety five</u> Dollars and <u>zero</u> Cents (\$ <u>95.00</u>) Per Square Yard	100 SY	\$ <u>9,500.00</u>
Item 6D2 - For Concrete Driveway Restoration, the Unit Price of <u>One hundred sixty</u> Dollars and <u>zero</u> Cents (\$ <u>160.00</u>) Per Square Yard	100 SY	\$ <u>16,000.00</u>
Item 6E - Lawn Restoration		
Item 6E1 - For Lawn Restoration, for Less than 200 LF in length, (Fixed Minimum Unit Price of \$3.00 per LF) the Unit Price of <u>Thirty five</u> Dollars and <u>zero</u> Cents (\$ <u>35.00</u>) Per Linear Foot	1000 LF	\$ <u>35,000.00</u>
Item 6E2 - For Lawn Restoration, for More than 200 LF in length, (Fixed Minimum Unit Price of \$1.00 per LF) the Unit Price of <u>Twenty</u> Dollars and <u>zero</u> Cents (\$ <u>20.00</u>) Per Linear Foot	1500 LF	\$ <u>30,000.00</u>

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<u>Description</u>	<u>Estimated Quantities</u>	<u>Computed Totals</u>
Item 6F - Landscape Restoration		
Item 6F1 - For Deciduous Trees 1½" - 2" Caliper (balled), the Unit Price of <u>Four hundred fifty</u> Dollars and <u>zero</u> Cents (\$ <u>450.00</u>) Per Each	1 Ea	<u>\$ 450.00</u>
Item 6F2 - For Evergreen Trees 4' - 5' tall (balled), the Unit Price of <u>Three hundred</u> Dollars and <u>zero</u> Cents (\$ <u>300.00</u>) Per Each	1 Ea	<u>\$ 300.00</u>
Item 6F3 - For Deciduous Trees 3' - 4' tall (balled), the Unit Price of <u>Three hundred</u> Dollars and <u>zero</u> Cents (\$ <u>300.00</u>) Per Each	1 Ea	<u>\$ 300.00</u>
Item 6F4 - For Evergreen Shrubs 2½' - 3' tall (balled), the Unit Price of <u>Two hundred fifty</u> Dollars and <u>zero</u> Cents (\$ <u>250.00</u>) Per Each	1 Ea	<u>\$ 250.00</u>
Item 7 - Select Backfill		
Item 7A - Select Backfill		
Item 7A1 - For Furnishing and Installing Select Backfill under 75 CY, the Unit Price of <u>Fifty five</u> Dollars and <u>zero</u> Cents (\$ <u>55.00</u>) Per Cubic Yard	1800 CY	<u>\$ 99,000.00</u>

ERIE COUNTY WATER AUTHORITY
 LARGE SERVICES CONTRACT
 FEBRUARY 1, 2019 THROUGH JANUARY 31, 2021
 PROJECT NO: 201900005

<u>Description</u>	<u>Estimated Quantities</u>	<u>Computed Totals</u>
Item 7A2 - For Furnishing and Installing Select Backfill over 75 CY, the Unit Price of <u>Forty nine</u> Dollars and <u>zero</u> Cents (\$ <u>49.00</u>) Per Cubic Yard	2000 CY	\$ <u>98,000.00</u>
Item 7B - Rip-Rap Item 7B1 - For Rip-Rap Removal and Replacement, the Unit Price of <u>One hundred eighty</u> Dollars and <u>zero</u> Cents (\$ <u>180.00</u>) Per Linear Foot	50 LF	\$ <u>9,000.00</u>
Item 8 - Casing Pipe Item 8A - Casing Pipe Installation by Tunneling, Jacking or Boring Item 8A1 - For Furnishing and Installing 12" Casing Pipe, the Unit Price of <u>Three hundred thirty five</u> Dollars and <u>zero</u> Cents (\$ <u>335.00</u>) Per Linear Foot	200 LF	\$ <u>67,000.00</u>
Item 8A2 - For Furnishing and Installing 16" Casing Pipe, the Unit Price of <u>Three hundred fifty five</u> Dollars and <u>zero</u> Cents (\$ <u>355.00</u>) Per Linear Foot	500 LF	\$ <u>177,500.00</u>
Item 8A3 - For Furnishing and Installing 18" Casing Pipe, the Unit Price of <u>Three hundred eighty five</u> Dollars and <u>zero</u> Cents (\$ <u>385.00</u>) Per Linear Foot	300 LF	\$ <u>115,500.00</u>

ERIE COUNTY WATER AUTHORITY
 LARGE SERVICES CONTRACT
 FEBRUARY 1, 2019 THROUGH JANUARY 31, 2021
 PROJECT NO: 201900005

<u>Description</u>	<u>Estimated Quantities</u>	<u>Computed Totals</u>
Item 8A4 - For Furnishing and Installing 20" Casing Pipe, the Unit Price of <u>Three hundred eighty five</u> Dollars and <u>zero</u> Cents (\$ <u>385.00</u>) Per Linear Foot	200 LF	\$ <u>77,000.00</u>
Item 8A5 - For Furnishing and Installing 24" Casing Pipe, the Unit Price of <u>Four hundred forty</u> Dollars and <u>zero</u> Cents (\$ <u>440.00</u>) Per Linear Foot	100 LF	\$ <u>44,000.00</u>
Item 8B - Casing Pipe Installation by Open Cut		
Item 8B1 - For Furnishing and Installing 12" Casing Pipe, the Unit Price of <u>One hundred</u> Dollars and <u>zero</u> Cents (\$ <u>100.00</u>) Per Linear Foot	50 LF	\$ <u>5,000.00</u>
Item 8B2 - For Furnishing and Installing 16" Casing Pipe, the Unit Price of <u>One hundred</u> Dollars and <u>zero</u> Cents (\$ <u>100.00</u>) Per Linear Foot	50 LF	\$ <u>5,000.00</u>
Item 8B3 - For Furnishing and Installing 18" Casing Pipe, the Unit Price of <u>One hundred five</u> Dollars and <u>zero</u> Cents (\$ <u>105.00</u>) Per Linear Foot	50 LF	\$ <u>5,250.00</u>
Item 8B4 - For Furnishing and Installing 20" Casing Pipe, the Unit Price of <u>One hundred fifteen</u> Dollars and <u>zero</u> Cents (\$ <u>115.00</u>) Per Linear Foot	50 LF	\$ <u>5,750.00</u>

ERIE COUNTY WATER AUTHORITY
 LARGE SERVICES CONTRACT
 FEBRUARY 1, 2019 THROUGH JANUARY 31, 2021
 PROJECT NO: 201900005

<u>Description</u>	<u>Estimated Quantities</u>	<u>Computed Totals</u>
Item 8B5 - For Furnishing and Installing 24" Casing Pipe, the Unit Price of <u>one hundred twenty five</u> Dollars and <u>zero</u> Cents (\$ <u>125.00</u>) Per Linear Foot	50 LF	<u>\$ 6,250.00</u>
Item 8C - Additional for Boring Casing Pipe in Rock		
Item 8C1 - For additional Boring in Rock for Casing Pipe, 12" through 18", the Unit Price of <u>Three hundred fifteen</u> Dollars and <u>zero</u> Cents (\$ <u>315.00</u>) Per Linear Foot	50 LF	<u>\$ 15,750.00</u>
Item 8C2 - For additional Boring in Rock for Casing Pipe, 20" through 24", the Unit Price of <u>Three hundred forty two</u> Dollars and <u>zero</u> Cents (\$ <u>342.00</u>) Per Linear Foot	450 LF	<u>\$ 153,900.00</u>
Item 9 - Crew, Labor, and Equipment		
Item 9A1 - For furnishing Crew, Labor, and Equipment, (Fixed Minimum Unit Price of \$100.00 per Hour) the Unit Price of <u>Four hundred sixty</u> Dollars and <u>zero</u> Cents (\$ <u>460.00</u>) Per Hour	400 Hours	<u>\$ 184,000.00</u>
Item 10 - Contingency Allowance		
<u>Twenty Thousand</u> Dollars and <u>No</u> Cents	Lump Sum	<u>\$ 20,000.00</u>

ERIE COUNTY WATER AUTHORITY
LARGE SERVICES CONTRACT
FEBRUARY 1, 2019 THROUGH JANUARY 31, 2021
PROJECT No: 201900005

<u>Description</u>	<u>Estimated Quantities</u>	<u>Computed Totals</u>
TOTAL BID AMOUNT (This total is for convenience in comparing Bids and is not an official part of this Bid.)		\$ <u>2,563,925.00</u> (Figures)
<u>Two million five hundred sixty three thousand nine hundred twenty five</u>		
	Dollars and <u>zero</u> Cents	
	(Written Amount)	

ERIE COUNTY WATER AUTHORITY
BUFFALO, NEW YORK

LARGE SERVICES CONTRACT
FEBRUARY 1, 2019 THROUGH JANUARY 31, 2021

PROJECT No: 201900005

SECTION 00500

AGREEMENT

THIS AGREEMENT is dated as of the 24th day of JANUARY in the year 2019, by and between the ERIE COUNTY WATER AUTHORITY (hereinafter called OWNER) and KANDEY COMPANY, INC. (hereinafter called CONTRACTOR).

WITNESSETH: OWNER and CONTRACTOR, in consideration of the mutual covenants hereinafter set forth, agree as follows:

ARTICLE 1 - WORK

1.01 CONTRACTOR shall at its own cost and expense furnish all labor, services, tools, materials, (other than those provided by OWNER), equipment and incidentals necessary to complete all Work as specified or indicated in the Contract Documents to perform all specified work required for Large Services Contract, February 1, 2019 through January 31, 2021. The Work includes all related work as shown on the drawings and described in the specifications. The Work is generally described in Section 01100 of the General Requirements.

ARTICLE 2 - ENGINEER

2.01 The Project has been designed by the OWNER, who is hereinafter called ENGINEER. The ENGINEER will assume all duties and responsibilities and have the rights and authority assigned to ENGINEER by OWNER in connection with completion of the work and in accordance with the Contract Documents.

SECTION 01100

SUMMARY OF WORK

PART 1 - GENERAL

1.01 LOCATION AND SCOPE OF WORK

- A. The Work consists of the installation of large water services, small services, hydrants, water main pipe, appurtenances, and related work located generally from the Authority's existing water main to the customer's property line.
- B. The Work is to be performed in the entire Erie County Water Authority's franchised area and all water districts that the Authority operates under a leased managed contract. The work is located in Erie County and includes the towns of Alden, Amherst, Aurora, Boston, Cheektowaga, Clarence, Concord, Eden, Evans, Hamburg, Lancaster, Marilla, Newstead, Orchard Park, and West Seneca; the Villages of Blasdell, Depew, Hamburg, Orchard Park, Lancaster, Sloan, and Williamsville; and the Cities of Lackawanna and Tonawanda.
- C. As part of the Work, the CONTRACTOR shall provide, as hereinafter set forth, a crew or crews, or men and equipment as may be required, to install customer domestic and/or fire services 3" diameter to 12" diameter and other related work.
- D. The CONTRACTOR shall be prepared to provide at any time, a crew or crews, men or equipment immediately including weekends and holidays, to install domestic and/or fire services and other work.
- E. Other Work shall include hydrants installed in conjunction with large services and ¾" to 2" domestic services installed in conjunction with large fire services.
- F. The Authority may use bid items included in this Contract to install distribution mains, relocate existing mains, adjust elevations at existing mains and other work deemed necessary which shall not be in conjunction with the installation of large fire or domestic services.
- G. The summary of the Work described in the 01100 Section is an overall summary of the responsibilities of the CONTRACTOR and his relation to the OWNER. It does not supersede the specific requirements of the other Contract Documents.

1.02 CONTRACTS

- A. The Work shall be constructed under one prime contract.

1.03 WORK BY OTHERS

A. Work by OWNER:

1. OWNER will operate all utility water system valves and hydrants of existing watermains and recently installed watermains once placed into service.

1.04 OWNER FURNISHED PRODUCTS

A. Products furnished by OWNER are as follows:

1. All watermain piping, fittings, valves, tapping valves, tapping sleeves, tees, fittings, fire hydrants, valve boxes, couplings, retainer glands, tie rods, service tubing, corporation stops, curb stops, curb boxes, service saddles, polyethylene tubing, magnetic tape, and other related appurtenances or accessories.
- B. CONTRACTOR shall be responsible to obtain all OWNER furnished materials from the Erie County Water Authority Service Center, 3030 Union Road, Cheektowaga, New York, between the hours of 9:00 a.m. and 3:00 p.m.
- C. Materials shall not be available any sooner than 48 hours before the Work is scheduled to be performed.
- D. The CONTRACTOR shall inspect the materials and give written acceptance of the same on the materials requisition slip of the Authority. The CONTRACTOR will be responsible for all material until installed in the finished work and accepted by the Authority. Upon completion of the work, he shall return all surplus to the place of origin where it shall be received, inspected, and credit issued to him for the returned material. Any loss of material which has not been returned or is in unsatisfactory condition shall be charged to the CONTRACTOR. Short lengths of pipe less than thirty (30) inches in length shall not be returned for credit. All jointing material not used on the job and not returned shall be charged against the CONTRACTOR at the cost per unit.

1.05 CONTRACTOR FURNISHED PRODUCTS

A. Products to be furnished by CONTRACTOR are as follows:

1. Concrete, concrete blocking, select backfill, bedding, temporary construction, testing needs, casing pipe and accessories, restoration items (temporary and permanent), and all other items necessary to complete the Work including any temporary construction work.
2. Tapping equipment, boring equipment, and all other equipment necessary to install watermains, services, and appurtenances under this Contract.

1.06 SEQUENCE OF WORK

A. General

1. The Work generally shall be constructed without disruption to the normal operation, except as noted in Section 01311, and 01731, and as otherwise approved by the ENGINEER.
2. It is hereby understood that Time is of Essence in performing all work, but especially in the time that service is interrupted to the customer. Disruption of water service to customers shall be minimized and shall not exceed four hours in duration for service installations.
3. Work performed in the vicinity of existing restaurants, police stations, health care facilities, industries, municipal buildings, places of worship, and schools must be performed in the least disruptive time (off hours) and must be coordinated with the affected establishment and the ENGINEER prior to work being performed.
4. Prior to any interconnection or abandonment, the CONTRACTOR shall schedule a water shut-down with the Erie County Water Authority through the ENGINEER

B. Customer Notification

1. The CONTRACTOR is responsible to notify all customers 72 hours in advance of when Work is to take place at their address. This notification also applies to customers who live adjacent or opposite to and who are also affected by or are part of the Work. The Authority shall also be notified no sooner than 5 business days of the date of the requested shut-down. The CONTRACTOR is required to complete a Customer Notification Form conforming to the requirements of Erie County Water Authority.
2. The notification shall be on the CONTRACTOR'S letterhead stationery explaining what technical work is being performed and that temporary restorations will be completed immediately and a tentative schedule for final restoration. The CONTRACTOR'S phone number will also be included for the customer's use to report any unsafe condition for which CONTRACTOR must respond to upon immediate notification. A copy of the letter shall be provided to the Erie County Water Authority for its files. Also, when questioned by the public, the CONTRACTOR'S workers shall first inform the public of what CONTRACTOR they work for and then for whom the CONTRACTOR is doing work.
3. The CONTRACTOR shall also prepare a letter to be provided to the homeowner where restoration was performed, explaining care instructions for the completed restoration.

C. Construct the Work in a manner and sequence as specified or as required.

D. Weekly Restoration Status Reports:

1. CONTRACTOR shall submit weekly reports, in a form acceptable to ENGINEER.

2. Reports shall be submitted to the ENGINEER by 9:00 a.m. every Monday during the months when Work is being performed. Reports shall indicate each service address and the type of restoration to be performed. Weekly reports shall include, but not necessarily be limited to:
 - a. New Services and Restoration completed during the reporting period.
 - b. New Services and Restoration scheduled to be completed during the next reporting period.
 - c. The number of crews assigned to each type during the next reporting period.
 - d. Status of backlogged Work. Backlogged Work defined as assigned and not completed jobs.
 - e. All CONTRACTOR reports must adhere to and comply with the OWNER'S reporting standards and procedures.
 - f. A computerized schedule shall indicate dates for jobs based on each restoration type.
3. Unsatisfactory Work that needs to be redone must be identified on a separate listing to be included with the weekly report.

1.07 CONTRACTOR'S USE OF PREMISES

- A. CONTRACTOR'S use of the premises shall be confined to the areas shown.
- B. The full use of the premises for storage, the operations of workmen and all other required construction activities will not be available to the CONTRACTOR.
- C. CONTRACTOR must share use of the premises with the OWNER and other contractors specified in Article 1.03.
- D. CONTRACTOR shall:
 1. Assume full responsibility for protection and safekeeping of products stored on or off premises.
 2. Move stored products that interfere with the operations of OWNER or other contractor.
 3. Obtain and pay for all additional storage or work areas required for his operations.
 4. In general obtain and pay for all permits and satisfy all permit requirements.
 5. Comply with all requirements defined in other specification sections.
- E. See General Conditions, for additional requirements.
- F. CONTRACTOR shall minimize disturbance of the existing conditions of lawn, pavement, sidewalk, driveway, etc. during the course of the Work.
- G. The CONTRACTOR shall be responsible to verify the location of the right-of-way line for all new services.

- H. The CONTRACTOR shall be responsible to verify the location of the sidewalk for all new services. Under no circumstances shall a curb box be installed in a sidewalk. If the right-of-way line falls within the sidewalk, the curb box shall be installed outside of the sidewalk. Any curb box installed in a sidewalk shall be moved and sidewalk replaced by the CONTRACTOR at his cost.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION (NOT USED)

END OF SECTION