

ERIE COUNTY WATER AUTHORITY  
 AUTHORIZATION FORM  
 For Approval/Execution of Documents  
 (check which apply)

**Contract:** \_\_\_\_\_ **Project No.:** 2019000126  
**Project Description:** 12" Main Replacement along Roll Rd., Town of Amherst/Clarence

**Item Description:**

Agreement     Professional Service Contract     Amendment     Change Order  
 BCD     NYSDOT Agreement     Contract Documents     Addendum  
 Recommendation for Award of Contract     Recommendation to Reject Bids  
 Request for Proposals  
 Other Main Replacement (Crossing)

**Action Requested:**

Board Authorization to Execute     Legal Approval  
 Board Authorization to Award     Execution by the Chairperson  
 Board Authorization to Advertise for Bids     Execution by the Secretary to the Authority  
 Board Authorization to Solicit Request for Proposals  
 Other \_\_\_\_\_

**Approvals Needed:**

**APPROVED AS TO CONTENT:**

Department Head *James F. Kovalich* Date: 5-17-19  
 Risk Manager *HIA* Date: \_\_\_\_\_  
 Director of Administration \_\_\_\_\_ Date: \_\_\_\_\_  
 Executive Engineer *Russell Stott* Date: 5/12/19

**APPROVED AS TO FORM:**

Legal *Margaret A. Murphy* Date: 5/20/19

**APPROVED FOR BOARD RESOLUTION:**

Secretary to the Authority *[Signature]* Date: 5/21/19

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

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

*[Handwritten initials]*



**ERIE COUNTY WATER AUTHORITY**  
**INTEROFFICE MEMORANDUM**

May 17, 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: 201900126  
ECWA FN: AMTN-756-1901

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The existing 8" cast iron main along Roll Rd. at Transit Rd. in the Town of Amherst/Clarence has a leak under the pavement and requires replacement. The water main crossing Transit Rd. is currently valved off to isolate the leak which is cutting off the east-west flow of water at this intersection. Instead of excavating in a six lane NYSDOT roadway to repair a cast iron pipe, we are proposing to bore a new main under the road. Boring underneath the roadway will minimize traffic disruptions during the main installation and will eliminate the need to restore the roadway.

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 \$112,000.00 and will be performed by Kandey Company Inc.

**ERIE COUNTY WATER AUTHORITY  
CONSTRUCTION AUTHORIZATION**

Project No. 201900126  
Budget No. \_\_\_\_\_

Authorization No.: EC 7038  
Date: 5/17/19  
Inputted By/Date: \_\_\_\_\_

May 2019 Estimate Starting Date  
August 2019 Estimate Complete Date  
yes  no Retirement Involved  
 Public Street  
Private Right of Way  
On Authority's Prop  
Tax Districts \_\_\_\_\_

Name of Grantor of Easement \_\_\_\_\_

\_\_\_\_\_ Date of Easement \_\_\_\_\_

**CLASS OF MAIN INSTALLATION:**

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

**TITLE OF PROJECT:** Install 170 LF of 12" DIP to replace existing 8" crossing along Roll Rd at Transit Rd., in the Town of Amherst/Clarence.

**DETAILED DESCRIPTION AND PURPOSE:**

A new 12" connection will be made to the existing 12" Main along Transit Rd. in the Town of Amherst/Clarence, approximately 90' north of Roll Rd and 50' west of Transit Rd. and install approx 170 LF of 12" D.I.P. for new crossing and replace Hydrant L05-F58. crossing is valved off due to a leak, new crossing required.

**ESTIMATE COST**

(1) Total Est. Cost \$ 112,000.00  
(2) \_\_\_\_\_ Meters and Service @ \_\_\_\_\_ \$ \_\_\_\_\_  
(3) Removal Cost Less Salvage \$ \_\_\_\_\_  
(4) Gross Investment \$ 112,000.00

**DEDUCT**

(5) Const. Advance \$ \_\_\_\_\_  
(6) Service Conn. \$ \_\_\_\_\_  
(7) Refunds \$ \_\_\_\_\_  
(8) Net Auth. Invest. \$ 112,000.00

**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. [Signature]  
Exec. Engr. [Signature]  
Admn. Director \_\_\_\_\_  
Legal Dept. \_\_\_\_\_  
Acct. Dept. \_\_\_\_\_

**RESOLUTION APPROVING**

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

## Cost Estimate

**PROJECT NO.:** 201900126

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

**Date:** 5/17/2019  
**Date:** \_\_\_\_\_

**TITLE:** INSTALL 170LF OF 12" DIP FOR MAIN REPLACEMENT  
ROLL RD., TOWN OF CLARENCE

**Type of Connection:** TEE

### MATERIAL LIST

Materials					
Qty.	U/M	Item No.	Description	Cost per Unit	Total Cost per item
170	LF	12120	12" D.I.PE w/WRAP	\$52.97	\$9,004.90
10	LF	12060	6" D.I.PE w/WRAP	\$23.48	\$234.80
1	EA	11130	12"x12" TEE	\$245.69	\$245.69
3	EA	7124	12" GATE VALVE	\$1,327.69	\$3,983.07
2	EA	20804	12" HY-MAX COUPLING	\$307.61	\$615.22
4	EA	14353	12"-45 COMPACT BEND	\$140.82	\$563.28
2	EA	9081	8" CAP	\$26.40	\$52.80
1	EA	20802	8" HY-MAX COUPLING	\$202.02	\$202.02
2	EA	14354	12" 90 COMPACT BEND	\$132.59	\$265.18
1	EA	5126	12"x8" REDUCER	\$79.82	\$79.82
1	EA	7062	6" GATE VALVE	\$469.02	\$469.02
1	EA	11124	12"x6" TEE	\$166.74	\$166.74
1	EA	10005	HYDRANT 5' BURY	\$1,593.50	\$1,593.50
1	EA	13168	ANCHOR COUPLING	\$99.45	\$99.45
4	EA		VALVE BOX COMPLETE	\$200.00	\$800.00
10	EA		RETAINER GLAND	\$50.00	\$500.00
<b>TOTAL MATERIAL COST (MAT)</b>					<b>\$18,875.49</b>

### 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
160	LF	1E4	INSTALL 12" D.I. PIPE	\$65.00	\$10,400.00
1	EA	1A2	8"x8" CONNECTION	\$4,700.00	\$4,700.00
10	LF	1E3	INSTALL 6" D.I. PIPE	\$65.00	\$650.00
1	EA	4A	INSTALL HYDRANT	\$1,350.00	\$1,350.00
95	LF	8A5	INSTALL 24" STEEL CASING PIPE	\$440.00	\$41,800.00
Restoration					
Qty.	U/M	Item No.	Description	Cost per Unit	Total Cost per Item
60	LF	6E1	LAWN	\$35.00	\$2,100.00
15	SY	6C2	CONCRETE SIDEWALK	\$145.00	\$2,175.00
20	CY	7A1	SELECT FILL	\$55.00	\$1,100.00
<b>TOTAL LABOR COST (LAB)</b>					<b>\$69,275.00</b>

**STORES ALLOCATION COST (SAL) = 15.0% OF MATERIAL COST (MAT)** **\$2,831.32**

**SUBTOTAL "A" = MAT+LAB+SAL** **\$90,981.81**

**OVERHEAD COST (OVHD) = 11.9% OF SUBTOTAL "A"** **\$10,826.84**

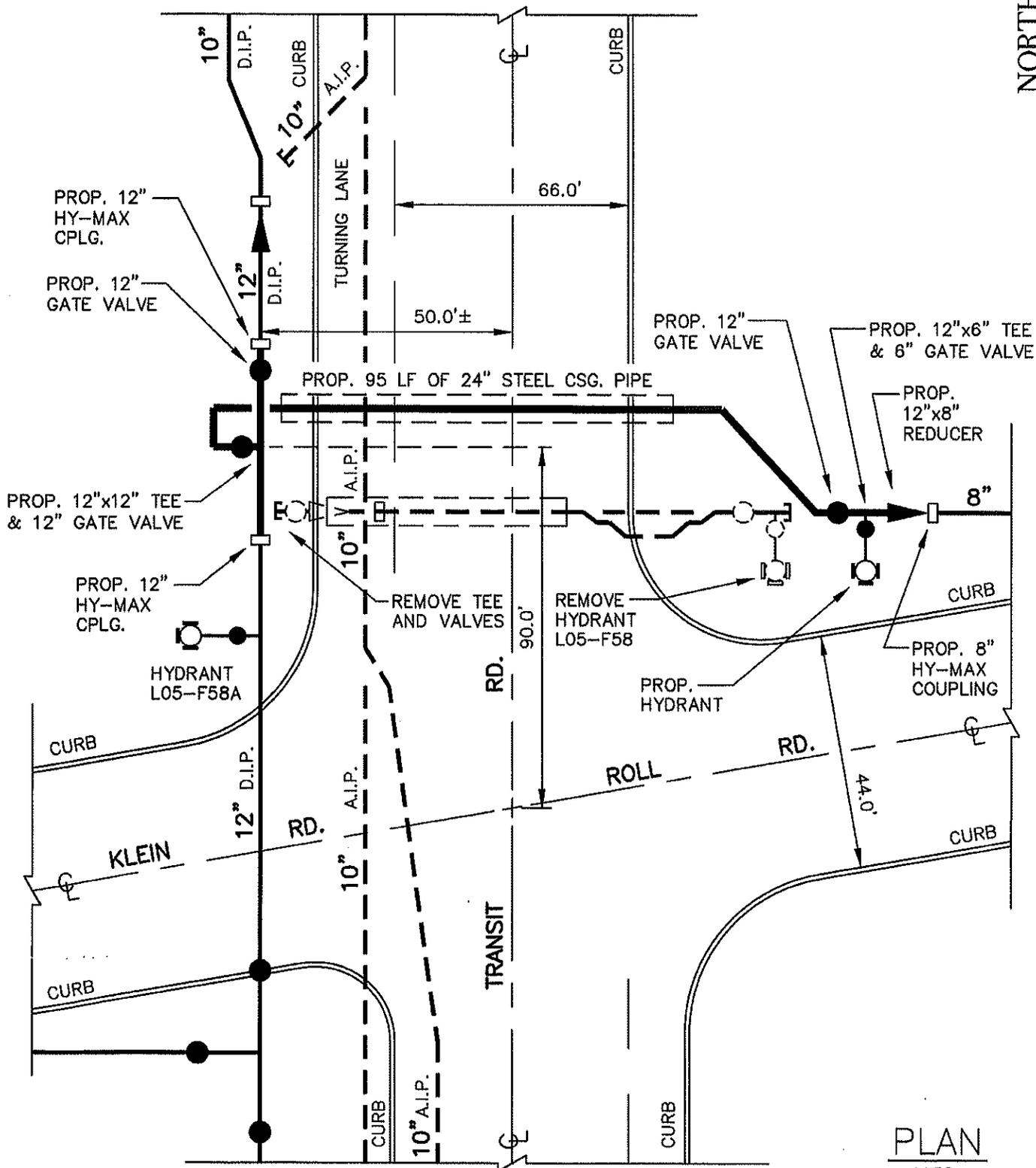
**SUBTOTAL "B" = OVHD + SUBTOTAL "A"** **\$101,808.65**

**CONTINGENCIES (CONT) = 10.0% OF SUBTOTAL "B"** **\$10,180.86**

**\*TOTAL ESTIMATED COST = CONT + SUBTOTAL "B" (ROUNDED)** **\$112,000.00**

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

INSTALL 170 LF OF 12" D.I.P. FOR MAIN REPLACEMENT  
 ROLL RD. AT TRANSIT RD., TOWN OF CLARENCE/AMHERST  
 PN: 201900126 FN: AMTN-756-1901



PLAN  
 NTS

ENGINEERING REPORT  
MAIN REPLACEMENT  
ROLL RD.  
TOWN OF AMHERST/CLARENCE  
ECWA PROJECT NO. 201900126

MAY 15, 2019

LOCATION AND DESCRIPTION

Roll Rd. is located east of Transit Rd. and north of Greiner Rd. in the Town of Clarence, New York. This project consists of replacing an existing 8 inch crossing by installing approximately 170 FT of 12 inch D.I.P. water main and replacing one hydrant in the northerly R.O.W. of Roll Rd. east of Transit Rd.

WATER SERVICE

Water will be supplied by making a connection to the existing 12 inch water main in the westerly R.O.W. of Transit Rd., approximately 90 FT north of the centerline of Roll Rd., and approximately 50 FT west of the centerline of Transit Rd., via a 12 inch x 12 inch tee. Then extend 12 inch D.I.P. east a distance of 170 FT to tie into the existing 8 inch main approximately 80 FT east of the centerline of Transit Rd., and approximately 35 FT north of the centerline of Roll Rd., and replace one fire hydrant.

MATERIALS

The proposed water main replacement 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.

**WATERLINE DESCRIPTION**

**Roll Rd.  
TOWN OF AMHERST/CLARENCE  
FN: AMTN-756-1901  
PN: 201900126**

**May 15, 2019**

**Beginning at a point on the existing 12 inch water main in the westerly R.O.W. of Transit Rd., approximately 90 FT north of the centerline of Roll Rd., and approximately 50 FT west of the centerline of Transit Rd. Thence 12 inch D.I.P. easterly a distance of approximately 170 FT to tie into the existing 8 inch water main in the northerly R.O.W. of Roll Rd., approximately 80 FT east of the centerline of Transit Rd. and approximately 35 FT north of the centerline of Roll Rd.**

# ROLL RD., AMTN/CLTN



INSTALL A NEW 12" CROSSING  
ROLL RD.  
TOWN OF AMHERST/CLARENCE  
PN: 201900126 FN: AMTN-756-1901

8550

5589

10" Ductile Iron Pipe

TRANSIT RD

L05F58 5G 8" Cast Iron Pipe

L05F58 6G 8" Cast Iron Pipe

L05F58 4G

8" Unknown

L05F58

L05F58A

TRANSIT RD

ROLL RD

KLEIN RD

12" Ductile Iron Pipe

L06B02A 2SV 10" Ductile Iron Pipe

L05F58A 3G

L05F58A 2G

30" Concrete Cylindrical Pipe L06B02A 3B

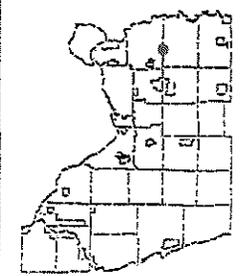
L06B02A 4GS

5575

8530

Legend:

Parcels





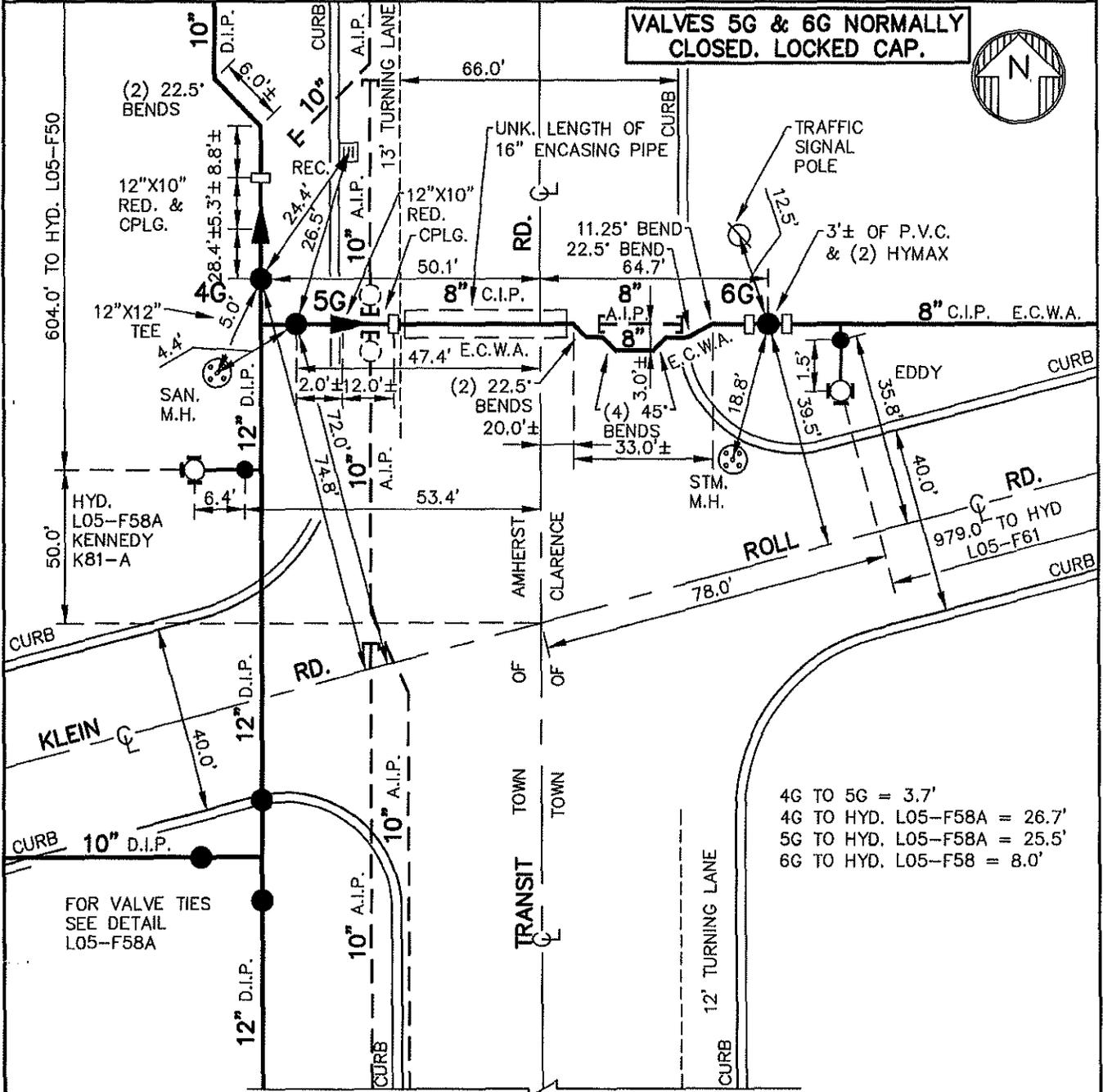
**ERIE COUNTY**  
**WATER AUTHORITY**  
 BUFFALO, NEW YORK

REVISED DR. R.D.C.  
 DATE: 3/20/2019  
 FIELD

REVISED DR.  
 DATE:  
 OFFICE

TOWN OF AMHERST  
 W.D. 15C  
 TOWN OF CLARENCE  
 E.C.W.A.

L05-F58  
 DETAIL SHT. NO.  
 CURRENT PROJECT NO.



**NOTE:** VALVES 5G & 6G CLOSED TO ISOLATE LEAK UNDER TRANSIT RD. ON 3/16/2019.

**NOTE:** VALVE 2G REMOVED UNDER AMTN-465-9801-FD. VALVES 1G & 3G A.I.P. UNDER AMTN-465-9801-FD.

**NOTE:** DETAIL DRAWN ON CAD SYSTEM. ± DIMENSIONS FROM AS-BUILTS & W.O., NOT FIELD CHECKED.

W.O. #CW37025  
 AMTN-465-9801-FD  
 HWNY-888-9601-P  
 HWNY-888-8301-PFS-38  
 3E-2  
 2C-1-A

L05-F58  
 DETAIL SHT. NO.

**MASTER COPY**

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  
 FEBRUARY 1, 2019 THROUGH JANUARY 31, 2021  
 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.

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

- 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.

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

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>

ERIE COUNTY WATER AUTHORITY  
 LARGE SERVICES CONTRACT  
 FEBRUARY 1, 2019 THROUGH JANUARY 31, 2021  
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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>

ERIE COUNTY WATER AUTHORITY  
 LARGE SERVICES CONTRACT  
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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 (\$ <u>5,800.00</u> ) 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 (\$ <u>5,800.00</u> ) 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 (\$ <u>5,800.00</u> ) 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 (\$ <u>5,800.00</u> ) Per Each	1 Ea	\$ <u>5,800.00</u>

ERIE COUNTY WATER AUTHORITY  
 LARGE SERVICES CONTRACT  
 FEBRUARY 1, 2019 THROUGH JANUARY 31, 2021  
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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>

ERIE COUNTY WATER AUTHORITY  
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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 1D8 - For installation of 24" x 4", 24" x 6", 24" x 8", 24" x 10", or 24" x 12" Cut in Tee, the Unit Price of <u>Six thousand five hundred</u> Dollars and _____ Cents (\$ <u>6,500.00</u> ) Per Each	1 Ea	<u>\$ 6,500.00</u>
Item 1E - Watermain Extensions and Hydrants which are 200 feet in length or less		
Item 1E1 - For installation of 3-inch DI or PVC Watermain, the Unit Price of <u>Fifty</u> Dollars and <u>zero</u> Cents (\$ <u>50.00</u> ) Per Linear Foot	50 LF	<u>\$ 2,500.00</u>
Item 1E2 - For installation of 4-inch DI or PVC Watermain, the Unit Price of <u>Fifty five</u> Dollars and <u>zero</u> Cents (\$ <u>55.00</u> ) Per Linear Foot	300 LF	<u>16,500.00</u>
Item 1E3 - For installation of 6-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	800 LF	<u>\$ 52,000.00</u>
Item 1E4 - For installation of 8-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	1500 LF	<u>\$ 97,500.00</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>
<b>Item 2 - Small Service Installation</b>		
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>
<b>Item 3 - Watermain for Main Extensions longer than 200 feet in length</b>		
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> 1350.00 </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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<u>Description</u>	<u>Estimated Quantities</u>	<u>Computed Totals</u>
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 <u>Fifty</u> Dollars and <u>zero</u> Cents (\$ <u>50.00</u> ) Per Linear Foot	100 LF	\$ <u>5,000.00</u>
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 <u>Fifty</u> Dollars and <u>zero</u> Cents (\$ <u>50.00</u> ) Per Linear Foot	100 LF	\$ <u>5,000.00</u>
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 <u>One thousand five hundred</u> Dollars and <u>zero</u> Cents (\$ <u>1,500.00</u> ) Per Each	10 Ea	\$ <u>15,000.00</u>
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 <u>One thousand five hundred</u> Dollars and <u>zero</u> Cents (\$ <u>1,500.00</u> ) Per Each	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>\$ 39,750.00</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>
<b>Item 6F - Landscape Restoration</b>		
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>
<b>Item 7 - Select Backfill</b>		
<b>Item 7A - Select Backfill</b>		
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>

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Description	Estimated Quantities	Computed Totals
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>

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<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>

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<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>

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<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)	

## 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.

## 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