

# ERIE COUNTY WATER AUTHORITY

## INTEROFFICE MEMORANDUM



April 3, 2023

To: Terrence D. McCracken, Secretary to the Authority  
From: William W. Wheeler, Distribution Engineer  
Subject: Water Distribution System  
Replacements and Improvements  
May 1, 2023 to April 30, 2025  
ECWA Project No. 202300009

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On Thursday, March 23, 2021, the Authority received one (1) bid for the above referenced contract. The bid by Kandey Company, Inc. (Kandey) has been reviewed by the Authority's Law Department, a mathematical check has been performed, and the bid was found acceptable. Enclosed please find a copy of the detailed bid tabulation sheet for your use and information.

Kandey is an established contractor with a long-time relationship with the Authority. Kandey has performed work in a competent and acceptable manner under the multiple contracts. They have been a contractor for the Water Distribution System Replacements and Improvements Contract 2021-2023 and have a good understanding of the scope and requirements for this contract.

The Contractor's bid was ~5% higher than Engineer's Estimate, which was developed from previous bids for the Water Distribution System Replacements and Improvements Contract and various capital projects. This variance could be attributed to increases in material and labor cost over time and more importantly, new bid items that were not previously included in ECWA contracts (i.e.: larger diameter piping, valves, and interconnections; pressure reducing valve; and contract chambers/vaults). Regardless of the variance, Kandey's bid appears reasonable and will be utilized as the basis for reviewing future bids for this contract moving forward.

Kandey has provided adequate WMBE documentation, approved by EEO Compliance Officer, insurance, approved by Claims Representative/Risk Manager, and proof of apprenticeship program, approved by Secretary to the Authority.

The Engineering Department, therefore, recommends the award of the Water Distribution System Replacements and Improvements contract to Kandey Company, Inc. in the amount of \$3,936,930.00.

### **Budget Information:**

Payments paid to the Contractor are made by periodic invoices from the 2023 budget Unit 2090, Distribution Main, Item 100586 Misc. Distribution Mains. Funds in 2024 and 2025 will be similarly budgeted.

Attached please find the following documents:

1. ECWA Authorization Form.
2. ECWA Recommendation for Award of Contract form.
3. Bid Tabulation.

WWW:jmf  
Attachments  
cc: L.Kowalski  
M.Quinn  
ECWA-928-2301-X-12

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

**Contract:** \_\_\_\_\_ **Project No.:** 202300009  
**Project Description:** Water Distribution System – Replacements and Improvements  
May 1, 2023 through April 30, 2025

**Item Description:**







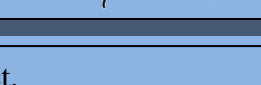
<input type="checkbox"/> Agreement	<input type="checkbox"/> Professional Service Contract	<input type="checkbox"/> Amendment	<input type="checkbox"/> Change Order
<input type="checkbox"/> BCD	<input type="checkbox"/> NYSDOT Agreement	<input checked="" type="checkbox"/> Contract Documents	<input type="checkbox"/> Addendum
<input checked="" type="checkbox"/> Recommendation for Award of Contract	<input type="checkbox"/> Recommendation to Reject Bids		
<input type="checkbox"/> Request for Proposals			
<input type="checkbox"/> Other _____			

**Action Requested:**

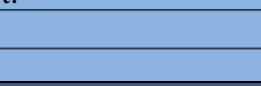
<input type="checkbox"/> Board Authorization to Execute	<input checked="" type="checkbox"/> Legal Approval
<input checked="" type="checkbox"/> Board Authorization to Award	<input type="checkbox"/> Execution by the Chairman
<input type="checkbox"/> Board Authorization to Advertise for Bids	<input type="checkbox"/> Execution by the Secretary to the Authority
<input type="checkbox"/> Board Authorization to Solicit Request for Proposals	
<input type="checkbox"/> Other _____	

**Approvals Needed:**

**APPROVED AS TO CONTENT:**

<input checked="" type="checkbox"/> Sr. Distribution Engineer		Date: <u>4/3/2023</u>
<input checked="" type="checkbox"/> Chief Operating Officer		Date: <u>4/3/2023</u>
<input checked="" type="checkbox"/> Executive Engineer		Date: <u>04/10/2023</u>
<input checked="" type="checkbox"/> Director of Administration		Date: <u>04/03/2023</u>
<input checked="" type="checkbox"/> Risk Manager		Date: <u>4/3/2023</u>
<input checked="" type="checkbox"/> Chief Financial Officer		Date: <u>04/03/2023</u>
<input checked="" type="checkbox"/> Legal		Date: <u>4/3/2023</u>

**APPROVED FOR BOARD RESOLUTION:**

<input checked="" type="checkbox"/> Secretary to the Authority		Date: <u>4/10/23</u>
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**Remarks:** Unit price contract.

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

**ERIE COUNTY WATER AUTHORITY  
RECOMMENDATION FOR AWARD OF CONTRACT**

Contract: \_\_\_\_\_ Project No.: 202300009  
 Project Description: Water Distribution System Replacements and Improvements Contract  
May 1, 2023 to April 30, 2025

**CONTRACT AWARD**

Contractor/Supplier: Kandey Company, Inc.  
 Award Amount: \$3,936,930.00

**BID SUMMARY:**

Date Advertised for Bids: <u>02/21/2023</u>	Date of Bid Opening <u>03/23/2023</u>
Bidder	Total Bid Amount
<u>Kandey Company, Inc.</u>	<u>\$3,936,930.00</u>
_____	<u>\$0.00</u>
_____	<u>\$0.00</u>
_____	<u>\$0.00</u>
_____	<u>\$0.00</u>
_____	<u>\$0.00</u>
_____	<u>\$0.00</u>
_____	<u>\$0.00</u>
_____	<u>\$0.00</u>
_____	<u>\$0.00</u>

Attachments:  Bid Tabulation  Consultant's Recommendation

**APPROVALS (Select applicable)**

**WMBE APPROVAL**

- No Waiver  
 Full Waiver  
 Partial Waiver

EEO Compliance Officer  Date 03/31/2023

**INSURANCE APPROVAL**

Claims Rep/Risk Manager  Date 4/3/23

**NYS CERTIFIED APPRENTICESHIP PROGRAM APPROVAL**

Secretary to the Authority  Date 4/3/23

Remarks: Unit price contract.  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Bid Item	Unit	QTY	Engineer's Estimate		Kandey Company Inc.					
			Unit Price	Item Total	Unit Price	Item Total	Unit Price	Item Total	Unit Price	Item Total
<b>Item 1 - Watermain</b>										
<b>Item 1A - 4-inch to 8-inch Watermain (PVC or DIP)</b>										
Item 1A1 - Installing 4-inch to 8-inch with 6-feet of cover or less	LF	3500	\$ 90.00	\$ 315,000.00	\$ 85.00	\$ 297,500.00		\$ -		\$ -
Item 1A2 - Installing 4-inch to 8-inch with greater than 6-feet of cover	LF	50	\$ 110.00	\$ 5,500.00	\$ 105.00	\$ 5,250.00		\$ -		\$ -
<b>Item 1B - 10-inch to 12-inch Watermain (PVC or DIP)</b>										
Item 1B1 - Installing 10-inch to 12-inch with 6-feet of cover or less	LF	500	\$ 105.00	\$ 52,500.00	\$ 100.00	\$ 50,000.00		\$ -		\$ -
Item 1B2 - Installing 10-inch to 12-inch with greater than 6-feet of cover	LF	50	\$ 125.00	\$ 6,250.00	\$ 120.00	\$ 6,000.00		\$ -		\$ -
<b>Item 1C - 16-inch to 20-inch Watermain (PVC or DIP)</b>										
Item 1C1 - Installing 16-inch to 20-inch with 6-feet of cover or less	LF	300	\$ 150.00	\$ 45,000.00	\$ 110.00	\$ 33,000.00		\$ -		\$ -
Item 1C2 - Installing 16-inch to 20-inch with greater than 6-feet of cover	LF	50	\$ 165.00	\$ 8,250.00	\$ 130.00	\$ 6,500.00		\$ -		\$ -
<b>Item 1D - 24-inch to 30-inch Watermain (PVC or DIP)</b>										
Item 1D1 - Installing 24-inch to 30-inch with 6-feet of cover or less	LF	300	\$ 175.00	\$ 52,500.00	\$ 120.00	\$ 36,000.00		\$ -		\$ -
Item 1D2 - Installing 24-inch to 30-inch with greater than 6-feet of cover	LF	50	\$ 190.00	\$ 9,500.00	\$ 150.00	\$ 7,500.00		\$ -		\$ -
<b>Item 1E - 36-inch Watermain (PVC or DIP)</b>										
Item 1E1 - Installing 36-inch with 6-feet of cover or less	LF	300	\$ 200.00	\$ 60,000.00	\$ 140.00	\$ 42,000.00		\$ -		\$ -
Item 1E2 - Installing 36-inch with greater than 6-feet of cover	LF	50	\$ 215.00	\$ 10,750.00	\$ 160.00	\$ 8,000.00		\$ -		\$ -
<b>Item 1F - HDPE Watermain</b>										
Item 1F1 - Furnishing and Installing 10-inch DR9 DIPS HDPE	LF	2000	\$ 50.00	\$ 100,000.00	\$ 90.00	\$ 180,000.00		\$ -		\$ -
Item 1F2 - Furnishing and Installing 12-inch DR9 DIPS HDPE	LF	400	\$ 60.00	\$ 24,000.00	\$ 110.00	\$ 44,000.00		\$ -		\$ -
Item 1F3 - Furnishing and Installing 16-inch DR9 DIPS HDPE	LF	400	\$ 110.00	\$ 44,000.00	\$ 130.00	\$ 52,000.00		\$ -		\$ -
<b>Item 2 - Valves</b>										
<b>Item 2A - Gate/Butterfly Valves</b>										
Item 2A1 - Installing 4-inch to 8-inch Valve, All Depths	Ea	20	\$ 4,000.00	\$ 80,000.00	\$ 3,750.00	\$ 75,000.00		\$ -		\$ -
Item 2A2 - Installing 10-inch to 12-inch Valve, All Depths	Ea	5	\$ 4,500.00	\$ 22,500.00	\$ 4,100.00	\$ 20,500.00		\$ -		\$ -

Bid Item	Unit	QTY	Engineer's Estimate		Kandey Company Inc.					
			Unit Price	Item Total	Unit Price	Item Total	Unit Price	Item Total	Unit Price	Item Total
Item 2A3 - Installing 16-inch to 20-inch Valve, All Depths	Ea	5	\$ 5,000.00	\$ 25,000.00	\$ 4,500.00	\$ 22,500.00		\$ -		\$ -
Item 2A4 - Installing 24-inch to 30-inch Valve, All Depths	Ea	5	\$ 6,000.00	\$ 30,000.00	\$ 5,000.00	\$ 25,000.00		\$ -		\$ -
Item 2A5 - Installing 36-inch Valve, All Depths	Ea	5	\$ 7,500.00	\$ 37,500.00	\$ 5,500.00	\$ 27,500.00		\$ -		\$ -
<b>Item 2B - Pressure Reducing Valve (PRV)</b>										
Item 2B1 - Installing PRV Chamber with 4-inch High Flow PRV and 2-inch to 4-inch Low Flow PRV	Ea	5	\$ 10,000.00	\$ 50,000.00	\$ 12,500.00	\$ 62,500.00		\$ -		\$ -
Item 2B2 - Installing PRV Chamber with 6-inch High Flow PRV and 2-inch to 6-inch Low Flow PRV	Ea	5	\$ 12,500.00	\$ 62,500.00	\$ 12,500.00	\$ 62,500.00		\$ -		\$ -
Item 2B3 - Installing PRV Chamber with 8-inch High Flow PRV and 4-inch to 8-inch Low Flow PRV	Ea	5	\$ 15,000.00	\$ 75,000.00	\$ 12,500.00	\$ 62,500.00		\$ -		\$ -
Item 2B4 - Installing PRV Chamber with 10-inch High Flow PRV and 4-inch to 10-inch Low Flow PRV	Ea	5	\$ 20,000.00	\$ 100,000.00	\$ 17,000.00	\$ 85,000.00		\$ -		\$ -
Item 2B5 - Installing PRV Chamber with 12-inch High Flow PRV and 6-inch to 12-inch Low Flow PRV	Ea	5	\$ 25,000.00	\$ 125,000.00	\$ 17,000.00	\$ 85,000.00		\$ -		\$ -
<b>Item 2C - Air Release Valves</b>										
Item 2C1 - Furnishing and Installing Air Release Valve and Concrete Chamber, All Depths	Ea	1	\$ 7,500.00	\$ 7,500.00	\$ 5,350.00	\$ 5,350.00		\$ -		\$ -
<b>Item 2D - Existing Valve Abandonment</b>										
Item 2D1 - Existing Valve Abandonment - Complete, All Sizes and Depths	Ea	5	\$ 1,500.00	\$ 7,500.00	\$ 1,500.00	\$ 7,500.00		\$ -		\$ -

Bid Item	Unit	QTY	Engineer's Estimate		Kandey Company Inc.					
			Unit Price	Item Total	Unit Price	Item Total	Unit Price	Item Total	Unit Price	Item Total
<b>Item 3 - Existing Watermain Connections (Interconnection)</b>										
<b>Item 3A - Inline Connection</b>										
Item 3A1 - For 4-inch to 8-inch Inline Connection - Complete	Ea	30	\$ 3,000.00	\$ 90,000.00	\$ 2,675.00	\$ 80,250.00		\$ -		\$ -
Item 3A2 - For 10-inch to 12-inch Inline Connection - Complete	Ea	5	\$ 3,500.00	\$ 17,500.00	\$ 3,210.00	\$ 16,050.00		\$ -		\$ -
Item 3A3 - For 16-inch to 20-inch Inline Connection - Complete	Ea	5	\$ 4,000.00	\$ 20,000.00	\$ 5,000.00	\$ 25,000.00		\$ -		\$ -
Item 3A4 - For 24-inch to 30-inch Inline Connection - Complete	Ea	5	\$ 5,500.00	\$ 27,500.00	\$ 6,000.00	\$ 30,000.00		\$ -		\$ -
Item 3A5 - For 36-inch Inline Connection - Complete	Ea	5	\$ 7,500.00	\$ 37,500.00	\$ 7,500.00	\$ 37,500.00		\$ -		\$ -
<b>Item 3B - Tapping Sleeves &amp; Valves</b>										
Item 3B1 - Installing 4-inch to 8-inch Tapping Sleeve and Valve on PVC Watermain, All Depths	Ea	1	\$ 5,500.00	\$ 5,500.00	\$ 5,350.00	\$ 5,350.00		\$ -		\$ -
Item 3B2 - Installing 10-inch to 12-inch Tapping Sleeve and Valve on DIP Watermain, All Depths	Ea	1	\$ 5,500.00	\$ 5,500.00	\$ 5,350.00	\$ 5,350.00		\$ -		\$ -
<b>Item 3C - Cut-in Tee w/ Valve Cluster</b>										
Item 3C1 - Installing 4-inch to 8-inch Cut-in Tee with Valve Cluster, All Depths	Ea	5	\$ 6,000.00	\$ 30,000.00	\$ 5,700.00	\$ 28,500.00		\$ -		\$ -
Item 3C2 - Installing 10-inch to 12-inch Cut-in Tee with Valve Cluster, All Depths	Ea	5	\$ 6,000.00	\$ 30,000.00	\$ 5,700.00	\$ 28,500.00		\$ -		\$ -
Item 3C3 - Installing 16-inch to 20-inch Cut-in Tee with Valve Cluster, All Depths	Ea	1	\$ 7,500.00	\$ 7,500.00	\$ 13,500.00	\$ 13,500.00		\$ -		\$ -
Item 3C4 - Installing 24-inch to 30-inch Cut-in Tee with Valve Cluster, All Depths	Ea	1	\$ 8,500.00	\$ 8,500.00	\$ 33,900.00	\$ 33,900.00		\$ -		\$ -
Item 3C5 - Installing 36-inch Cut-in Tee with Valve Cluster, All Depths	Ea	1	\$ 10,000.00	\$ 10,000.00	\$ 38,500.00	\$ 38,500.00		\$ -		\$ -
<b>Item 4 - Fire Hydrants</b>										
<b>Item 4A - New Fire Hydrant Assembly</b>										
Item 4A1 - Installing New Fire Hydrant Assembly - Complete, All Depths	Ea	10	\$ 1,500.00	\$ 15,000.00	\$ 1,550.00	\$ 15,500.00		\$ -		\$ -
<b>Item 4B - Existing Fire Hydrant Abandonment</b>										
Item 4B1 - For Existing Fire Hydrant Abandonment - Complete, All Depths	Ea	10	\$ 1,000.00	\$ 10,000.00	\$ 800.00	\$ 8,000.00		\$ -		\$ -
<b>Item 5 - Ductile Iron Fittings</b>										
<b>Item 5A - Ductile Iron Fittings</b>										

Bid Item	Unit	QTY	Engineer's Estimate		Kandey Company Inc.					
			Unit Price	Item Total	Unit Price	Item Total	Unit Price	Item Total	Unit Price	Item Total
Item 5A1 - Installing 4-inch to 8-inch Ductile Iron Fitting with joint restraint, All Depths	Ea	100	\$ 250.00	\$ 25,000.00	\$ 270.00	\$ 27,000.00		\$ -		\$ -
Item 5A2 - Installing 10-inch to 12-inch Ductile Iron Fitting with joint restraint, All Depths	Ea	30	\$ 300.00	\$ 9,000.00	\$ 325.00	\$ 9,750.00		\$ -		\$ -
Item 5A3 - Installing 16-inch to 20-inch Ductile Iron Fitting with joint restraint, All Depths	Ea	20	\$ 350.00	\$ 7,000.00	\$ 2,000.00	\$ 40,000.00		\$ -		\$ -
Item 5A4 - Installing 24-inch to 30-inch Ductile Iron Fitting with joint restraint, All Depths	Ea	20	\$ 400.00	\$ 8,000.00	\$ 2,100.00	\$ 42,000.00		\$ -		\$ -
Item 5A5 - Installing 36-inch Ductile Iron Fitting with joint restraint, All Depths	Ea	20	\$ 500.00	\$ 10,000.00	\$ 2,200.00	\$ 44,000.00		\$ -		\$ -
Item 5A6 - Installing 4-inch to 8-inch Joint Restraint on existing, All Depths	Ea	10	\$ 2,500.00	\$ 25,000.00	\$ 2,675.00	\$ 26,750.00		\$ -		\$ -
Item 5A7 - Installing 10-inch to 12-inch Joint Restraint on existing, All Depths	Ea	10	\$ 3,000.00	\$ 30,000.00	\$ 3,250.00	\$ 32,500.00		\$ -		\$ -
Item 5A8 - Installing 16-inch to 20-inch Joint Restraint on existing, All Depths	Ea	10	\$ 3,500.00	\$ 35,000.00	\$ 4,400.00	\$ 44,000.00		\$ -		\$ -
Item 5A9 - Installing 24-inch to 30-inch Joint Restraint on existing, All Depths	Ea	10	\$ 4,000.00	\$ 40,000.00	\$ 4,800.00	\$ 48,000.00		\$ -		\$ -
Item 5A10 - Installing 36-inch Joint Restraint on existing, All Depths	Ea	10	\$ 5,000.00	\$ 50,000.00	\$ 5,200.00	\$ 52,000.00		\$ -		\$ -
<b>Item 6 - Polyethylene Encasement</b>										
<b>Item 6A - Polyethylene Encasement for Ductile Iron Pipe and Fittings</b>										
Item 6A1 - Installing For installing Polyethylene Encasement for DI Pipe and Fittings	LF	3,000	\$ 1.50	\$ 4,500.00	\$ 2.00	\$ 6,000.00		\$ -		\$ -
<b>Item 7 - Rock Excavation, Test Pit Excavation/Backfill, and Extra Excavation/Backfill</b>										
<b>Item 7A - Rock Excavation</b>										
Item 7A1 - For Rock Excavation per Section 02317, All Depths	CY	20	\$ 300.00	\$ 6,000.00	\$ 320.00	\$ 6,400.00		\$ -		\$ -
<b>Item 7B - Test Pit Excavation and Backfill</b>										
Item 7B1 - For Test Pit Excavation and Backfill, All Depths	Ea	10	\$ 1,000.00	\$ 10,000.00	\$ 700.00	\$ 7,000.00		\$ -		\$ -
<b>Item 7C - Extra Excavation and Backfill</b>										

Bid Item	Unit	QTY	Engineer's Estimate		Kandey Company Inc.					
			Unit Price	Item Total	Unit Price	Item Total	Unit Price	Item Total	Unit Price	Item Total
Item 7C1 - For Extra Excavation and Backfill, All Depths	CY	50	\$ 50.00	\$ 2,500.00	\$ 55.00	\$ 2,750.00		\$ -		\$ -
<b>Item 8 - Special Backfill</b>										
<b>Item 8A - Select Backfill</b>										
Item 8A1 - For furnishing and installing Select Backfill	CY	1800	\$ 70.00	\$ 126,000.00	\$ 60.00	\$ 108,000.00		\$ -		\$ -
<b>Item 8B - Rip-Rap Backfill</b>										
Item 8B1 - For furnishing and installing Rip-Rap Backfill	CY	50	\$ 200.00	\$ 10,000.00	\$ 195.00	\$ 9,750.00		\$ -		\$ -
<b>Item 9 - Water Service Connections and Blow-offs</b>										
<b>Item 9A - Water Service Replacements/Installations</b>										
Item 9A1 - For installing 3/4-inch to 1-inch Copper Service Replacement/Installation	EA	20	\$ 2,000.00	\$ 40,000.00	\$ 2,150.00	\$ 43,000.00		\$ -		\$ -
Item 9A2 - For installing 1 1/2-inch to 2-inch Copper Service Replacement/Installation	EA	5	\$ 2,500.00	\$ 12,500.00	\$ 2,400.00	\$ 12,000.00		\$ -		\$ -
Item 9A3 - For furnishing and installing 3/4-inch to 1-inch Polyethylene Service Replacement/Installation	EA	5	\$ 2,000.00	\$ 10,000.00	\$ 2,150.00	\$ 10,750.00		\$ -		\$ -
Item 9A4 - For furnishing and installing 1 1/2-inch to 2-inch Polyethylene Service Replacement/Installation	EA	5	\$ 2,500.00	\$ 12,500.00	\$ 2,400.00	\$ 12,000.00		\$ -		\$ -



Bid Item	Unit	QTY	Engineer's Estimate		Kandey Company Inc.					
			Unit Price	Item Total	Unit Price	Item Total	Unit Price	Item Total	Unit Price	Item Total
<b>Item 9B - Additional Copper and Polyethylene Tubing</b>										
Item 9B1 - For installing 3/4-inch to 1-inch Additional Copper Tubing	LF	10	\$ 15.00	\$ 150.00	\$ 17.00	\$ 170.00		\$ -		\$ -
Item 9B2 - For installing 1 1/2-inch to 2-inch Additional Copper Tubing	LF	10	\$ 25.00	\$ 250.00	\$ 27.00	\$ 270.00		\$ -		\$ -
Item 9B3 - For furnishing and installing 3/4-inch to 1-inch Additional Polyethylene Tubing	LF	10	\$ 15.00	\$ 150.00	\$ 17.00	\$ 170.00		\$ -		\$ -
Item 9B4 - For furnishing and installing 1 1/2-inch to 2-inch Additional Polyethylene Tubing	LF	10	\$ 25.00	\$ 250.00	\$ 27.00	\$ 270.00		\$ -		\$ -
<b>Item 9C - Blow-off Assemblies</b>										
Item 9C1 - For installing Permanent 2-inch Blow-off Assembly	EA	5	\$ 1,000.00	\$ 5,000.00	\$ 535.00	\$ 2,675.00		\$ -		\$ -
Item 9C2 - For installing Permanent 4-inch Blow-off Assembly	EA	1	\$ 1,500.00	\$ 1,500.00	\$ 1,100.00	\$ 1,100.00		\$ -		\$ -
Item 9C3 - For installing Permanent 8-inch Blow-off Assembly	EA	1	\$ 2,500.00	\$ 2,500.00	\$ 1,600.00	\$ 1,600.00		\$ -		\$ -
<b>Item 10 - Casing Pipe</b>										
<b>Item 10A - Trenchless Casing Pipe Installation</b>										
Item 10A1 - For furnishing and installing 18-inch Diameter Casing Pipe	LF	350	\$ 450.00	\$ 157,500.00	\$ 455.00	\$ 159,250.00		\$ -		\$ -
Item 10A2 - For furnishing and installing 20-inch Diameter Casing Pipe	LF	200	\$ 450.00	\$ 90,000.00	\$ 455.00	\$ 91,000.00		\$ -		\$ -
Item 10A3 - For furnishing and installing 24-inch Diameter Casing Pipe	LF	100	\$ 500.00	\$ 50,000.00	\$ 525.00	\$ 52,500.00		\$ -		\$ -
Item 10A4 - For furnishing and installing 30-inch Diameter Casing Pipe	LF	50	\$ 500.00	\$ 25,000.00	\$ 750.00	\$ 37,500.00		\$ -		\$ -
<b>Item 10B - Open-cut Casing Pipe Installation</b>										
Item 10B1 - For furnishing and installing 18-inch Diameter Casing Pipe	LF	20	\$ 120.00	\$ 2,400.00	\$ 200.00	\$ 4,000.00		\$ -		\$ -
Item 10B2 - For furnishing and installing 20-inch Diameter Casing Pipe	LF	20	\$ 120.00	\$ 2,400.00	\$ 200.00	\$ 4,000.00		\$ -		\$ -
Item 10B3 - For furnishing and installing 24-inch Diameter Casing Pipe	LF	20	\$ 150.00	\$ 3,000.00	\$ 250.00	\$ 5,000.00		\$ -		\$ -
Item 10B4 - For furnishing and installing 30-inch Diameter Casing Pipe	LF	20	\$ 150.00	\$ 3,000.00	\$ 400.00	\$ 8,000.00		\$ -		\$ -

Bid Item	Unit	QTY	Engineer's Estimate		Kandey Company Inc.					
			Unit Price	Item Total	Unit Price	Item Total	Unit Price	Item Total	Unit Price	Item Total
<b>Item 10C - Additional for Trenchless Casing Pipe Installation in Rock</b>										
Item 10C1 - For Trenchless Casing Pipe Installation in Rock, 16-inch to 18-inch Diameter Casing Pipe	LF	10	\$ 350.00	\$ 3,500.00	\$ 380.00	\$ 3,800.00		\$ -		\$ -
Item 10C2 - For Trenchless Casing Pipe Installation in Rock, 20-inch to 24-inch Diameter Casing Pipe	LF	10	\$ 375.00	\$ 3,750.00	\$ 380.00	\$ 3,800.00		\$ -		\$ -
Item 10C3 - For Trenchless Casing Pipe Installation in Rock, 30-inch Diameter Casing Pipe	LF	10	\$ 400.00	\$ 4,000.00	\$ 500.00	\$ 5,000.00		\$ -		\$ -
<b>Item 11 - Horizontal Directional Drilling (HDD)</b>										
<b>Item 11A - HDD</b>										
Item 11A1 - HDD for installing 4-inch to 10-inch watermain	LF	1800	\$ 100.00	\$ 180,000.00	\$ 120.00	\$ 216,000.00		\$ -		\$ -
Item 11A2 - HDD for installing 12-inch to 16-inch watermain	LF	300	\$ 120.00	\$ 36,000.00	\$ 230.00	\$ 69,000.00		\$ -		\$ -
<b>Item 12 - Testing and Disinfection</b>										
<b>Item 12A - Testing and Disinfection</b>										
Item 12A1 - Testing and Disinfection for installing 4-inch watermain	LF	50	\$ 10.00	\$ 500.00	\$ 11.00	\$ 550.00		\$ -		\$ -
Item 12A2 - Testing and Disinfection for installing 6-inch watermain	LF	50	\$ 10.00	\$ 500.00	\$ 11.00	\$ 550.00		\$ -		\$ -
Item 12A3 - Testing and Disinfection for installing 8-inch watermain	LF	500	\$ 10.00	\$ 5,000.00	\$ 11.00	\$ 5,500.00		\$ -		\$ -
Item 12A4 - Testing and Disinfection for installing 10-inch watermain	LF	250	\$ 10.00	\$ 2,500.00	\$ 11.00	\$ 2,750.00		\$ -		\$ -
Item 12A5 - Testing and Disinfection for installing 12-inch watermain	LF	250	\$ 10.00	\$ 2,500.00	\$ 11.00	\$ 2,750.00		\$ -		\$ -
Item 12A6 - Testing and Disinfection for installing 16-inch watermain	LF	250	\$ 15.00	\$ 3,750.00	\$ 12.00	\$ 3,000.00		\$ -		\$ -
Item 12A7 - Testing and Disinfection for installing 20-inch watermain	LF	250	\$ 15.00	\$ 3,750.00	\$ 12.00	\$ 3,000.00		\$ -		\$ -
Item 12A8 - Testing and Disinfection for installing 24-inch watermain	LF	250	\$ 15.00	\$ 3,750.00	\$ 12.00	\$ 3,000.00		\$ -		\$ -
Item 12A9 - Testing and Disinfection for installing 30-inch watermain	LF	250	\$ 15.00	\$ 3,750.00	\$ 15.00	\$ 3,750.00		\$ -		\$ -

Bid Item	Unit	QTY	Engineer's Estimate		Kandey Company Inc.					
			Unit Price	Item Total	Unit Price	Item Total	Unit Price	Item Total	Unit Price	Item Total
Item 12A10 - Testing and Disinfection for installing 36-inch watermain	LF	250	\$ 15.00	\$ 3,750.00	\$ 15.00	\$ 3,750.00		\$ -		\$ -
<b>Item 13 - Pavement, Sidewalk, Driveway, Lawn, and Landscape Restoration</b>										
<b>Item 13A - Clearing and Grubbing</b>										
Item 13A1 - For Additional Clearing and Grubbing greater than 15-feet	SY	50	\$ 100.00	\$ 5,000.00	\$ 105.00	\$ 5,250.00		\$ -		\$ -
<b>Item 13B - Pavement Restoration</b>										
Item 13B1 - For Asphalt Pavement Restoration	SY	600	\$ 150.00	\$ 90,000.00	\$ 140.00	\$ 84,000.00		\$ -		\$ -
Item 13B2 - For Concrete Pavement Restoration	SY	20	\$ 200.00	\$ 4,000.00	\$ 190.00	\$ 3,800.00		\$ -		\$ -
Item 13B3 - For Concrete with Asphalt Top Pavement Restoration	SY	300	\$ 200.00	\$ 60,000.00	\$ 200.00	\$ 60,000.00		\$ -		\$ -
Item 13B4 - For Asphalt Shoulder Restoration	SY	20	\$ 100.00	\$ 2,000.00	\$ 100.00	\$ 2,000.00		\$ -		\$ -
Item 13B5 - For Concrete Gutter Restoration	LF	20	\$ 100.00	\$ 2,000.00	\$ 80.00	\$ 1,600.00		\$ -		\$ -
Item 13B6 - For Concrete Curb Restoration	LF	20	\$ 100.00	\$ 2,000.00	\$ 80.00	\$ 1,600.00		\$ -		\$ -
Item 13B7 - For Granite Curb Restoration	LF	20	\$ 250.00	\$ 5,000.00	\$ 215.00	\$ 4,300.00		\$ -		\$ -
Item 13B8 - For Cold Milling and Asphalt Top at 1-inch to 2-inch depth	SY	200	\$ 150.00	\$ 30,000.00	\$ 175.00	\$ 35,000.00		\$ -		\$ -
Item 13B9 - For Cold Milling and Asphalt Top at each 1-inch over 2-inch depth	SY	100	\$ 100.00	\$ 10,000.00	\$ 80.00	\$ 8,000.00		\$ -		\$ -
Item 13B10 - For Cold Patch (high performance patching material) per 3-inch	SY	50	\$ 75.00	\$ 3,750.00	\$ 55.00	\$ 2,750.00		\$ -		\$ -
Item 13B11 - For Traffic Loop Installation	EA	5	\$ 3,500.00	\$ 17,500.00	\$ 3,200.00	\$ 16,000.00		\$ -		\$ -
<b>Item 13C - Sidewalk Restoration</b>										
Item 13C1 - For Asphalt Sidewalk Restoration	SY	10	\$ 100.00	\$ 1,000.00	\$ 110.00	\$ 1,100.00		\$ -		\$ -
Item 13C2 - For Concrete Sidewalk Restoration	SY	400	\$ 150.00	\$ 60,000.00	\$ 160.00	\$ 64,000.00		\$ -		\$ -
<b>Item 13D - Driveway Restoration</b>										
Item 13D1 - For Asphalt Driveway Restoration	SY	200	\$ 100.00	\$ 20,000.00	\$ 110.00	\$ 22,000.00		\$ -		\$ -
Item 13D2 - For Concrete Driveway Restoration	SY	100	\$ 170.00	\$ 17,000.00	\$ 185.00	\$ 18,500.00		\$ -		\$ -
<b>Item 13E - Asphalt Sealant</b>										
Item 13E1 - For Asphalt Sealant	SY	500	\$ 5.00	\$ 2,500.00	\$ 6.00	\$ 3,000.00		\$ -		\$ -
<b>Item 13F - Lawn Restoration</b>										
Item 13F1 - For Lawn Restoration	SY	3200	\$ 40.00	\$ 128,000.00	\$ 33.00	\$ 105,600.00		\$ -		\$ -

Bid Item	Unit	QTY	Engineer's Estimate		Kandey Company Inc.					
			Unit Price	Item Total	Unit Price	Item Total	Unit Price	Item Total	Unit Price	Item Total
<b>Item 13G - Landscaping Restoration</b>										
Item 13G1 - For Deciduous Trees, 3-feet to 4-feet (balled)	EA	1	\$ 500.00	\$ 500.00	\$ 485.00	\$ 485.00		\$ -		\$ -
Item 13G2 - For Deciduous Trees, 1 1/2-inch to 2-inch caliper (balled)	EA	1	\$ 500.00	\$ 500.00	\$ 485.00	\$ 485.00		\$ -		\$ -
Item 13G3 - For Deciduous Trees, 4-inch to 4 1/2-inch caliper (balled)	EA	1	\$ 750.00	\$ 750.00	\$ 700.00	\$ 700.00		\$ -		\$ -
Item 13G4 - For Deciduous Shrubs, 2 1/2-feet to 4-feet (balled)	EA	1	\$ 100.00	\$ 100.00	\$ 100.00	\$ 100.00		\$ -		\$ -
Item 13G5 - For Evergreen Trees, 5-feet to 6-feet (balled)	EA	1	\$ 300.00	\$ 300.00	\$ 270.00	\$ 270.00		\$ -		\$ -
Item 13G6 - For Evergreen Shrubs, 2 1/2-feet to 4-feet (balled)	EA	1	\$ 300.00	\$ 300.00	\$ 270.00	\$ 270.00		\$ -		\$ -
Item 13G7 - For Repairing Damaged Trees, pruning and wrapping	EA	1	\$ 750.00	\$ 750.00	\$ 800.00	\$ 800.00		\$ -		\$ -
Item 13G8 - For Fertilizing Existing Trees	EA	1	\$ 200.00	\$ 200.00	\$ 215.00	\$ 215.00		\$ -		\$ -
<b>Item 14 - Crew Rate and Construction Allowance</b>										
<b>Item 14A - Crew Labor and Equipment</b>										
Item 14A1 - For Crew Labor and Equipment	HR	200	\$ 460.00	\$ 92,000.00	\$ 550.00	\$ 110,000.00		\$ -		\$ -
Item 14A2 - For Survey Crew Labor and Equipment	HR	50	\$ 250.00	\$ 12,500.00	\$ 215.00	\$ 10,750.00		\$ -		\$ -
Item 14A3 - For Vacuum Truck and Creek Labor	HR	50	\$ 600.00	\$ 30,000.00	\$ 450.00	\$ 22,500.00		\$ -		\$ -
<b>Item 14B - Construction Allowance</b>										
Item 14B1 - For General Construction Allowance	Allowance	1	\$ 150,000.00	\$ 150,000.00	\$ 150,000.00	\$ 150,000.00		\$ -		\$ -
Item 14B2 - For Maintenance and Protection of Traffic (State and County Roads) Allowance	Allowance	1	\$ 100,000.00	\$ 100,000.00	\$ 100,000.00	\$ 100,000.00		\$ -		\$ -
Item 14B3 - For Concrete Vaults and Chambers Allowance	Allowance	1	\$ 100,000.00	\$ 100,000.00	\$ 100,000.00	\$ 100,000.00		\$ -		\$ -
Item 14B4 - For Material Allowance	Allowance	1	\$ 50,000.00	\$ 50,000.00	\$ 50,000.00	\$ 50,000.00		\$ -		\$ -
<b>Bid Total</b>	-	-	-	<b>\$ 3,741,000.00</b>	-	<b>\$ 3,936,930.00</b>	-	\$ -	-	\$ -