

BUSINESS CASE FORMNew Project or Budget Change? Assigned Project # Requested by: Date:
*Project Manager / Area Manager*Project Name: Company: Business Unit: Project Owner: BU Type: Project Manager: Budget Owner / RP: Start Date: Region: Estimated End Date: State: Primarily Like-For-Like Asset Replacement? Project Type: *(check all that apply)*Will project replace/retire any assets:

- Growth
 Maintenance
 Replacement
 Upgrade
 Cost Reduction
 EH&S Compliance
 Other
 Developer Agreement
 Divestment
 Acquisition
 Rate Case
 Deferred Maintenance

	Engineering	Construction	Total
Previously Requested:			0
This Request:		486,514	486,514
Still to be Requested:			0
Total Project Budget:	0	486,514	486,514

Description:

The project consists of installing approximately 5,000 LF of 8" pipe from the Crescent Bay well site to the Crescent West well site. The raw water main will connect to the 8" DIP piping at the Crescent Bay well. A direction drill will be used to install approximately 1,000 LF of 8" HDPE pipe under Crescent Lake then 8" PVC will continue down Lake Crescent Court to Lake Katherine Circle. The raw water main will cross under Bee Tree Trail and connect to the existing 10" raw water main that manifolds the Crescent West and Lake Crescent Hills wells into an 18" raw water main for delivery to the CR 561 WTP.

The project scope includes obtaining a non-exclusive utility easement from the Crescent Bay HOA

Timeline Considerations:

This project is a proforma included in the Utility's 2020 rate filing that must be completed by December 31, 2021 to qualify as a proforma. Having the projected completed before the spring of 2021 is critical to meet seasonal high demand periods while maintaining optimum level of service to the customers.

Inter-dependent Project Project Number: Project Name: (If applicable)Have engineering evaluations been performed? Engineering project number: (If applicable)

JUSTIFICATION / ALTERNATIVES

Justification and Benefits:

The CR 561 WTP and the Crescent Bay WTP provide potable water service to the west side of the Lake Utility Services North service area consisting of approximately 4,100 connections. The CR 561 WTP consists of a ground storage tank (GST) and four HSP's. Treated water to the GST is provided by three off site wells. The Crescent Bay WTP is comprised of one hydro tank and one well. The CR 561 WTP is located at a higher elevation. Due to the elevation differences in the system, the typical pressures seen at the Crescent Bay WTP range between 85 and 90 psi and prevents the Crescent Bay WTP from pumping other than during high demand periods and even then pumping capability is far less than the wells rated output. This creates pockets of low pressure issues in the system during high demand periods. This condition has created the need to seasonally close valves in the system to move water in different directions thus elevating pressures just enough to prevent low pressure complaints. However, with continuing growth and the real possibility that one of the three wells serving the CR 561 WTP could fail, the Utility needs to increase the well supply to the CR 561 WTP. By repurposing the Crescent Bay well from its use as a supply well to the Crescent Bay WTP to be used as additional well supply to the CR 561 WTP, the bottleneck caused by high pressures from elevation changes can be eliminated thus maximizing the well's output and eliminating the need to construct another well site.

Risk Evaluation

Without increasing the well supply to the CR 561 WTP, high demand periods will affect system pressures that erode the level of service to the customer. Although manipulating system valves has provided a bandaid of sorts, continuing customer growth will worsen the current situation and the real possibility of a CR 561 well failure elevates the risk of being able to maintain service and meet compliance with FDEP regulations.

Alternatives Considered:

Acquire property, design, permit and construct a well, electrical, controls, treatment and pipeline to the CR 561 WTP. Without knowing the location of the well site as regards its proximity to the CR 561 WTP, the cost to perform the aforementioned task would be comparable if not more than the Crescent Bay raw water main construction.

Technical Review Summary:

Project was presented to and approved by the CPRT on 6/11/20 without the need for revisions.

**BID TABULATION
FOR
Crescent Bay Raw Water Main**

	DESCRIPTION	UNIT	QUANTITY	Central Florida Tapping		Traverse		Tri-Sure	
				UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT
General									
1	Mobilization	LS	1	\$ 41,730.00	\$ 41,730.00	\$ 25,000.00	\$ 25,000.00	\$ 30,000.00	\$ 30,000.00
2	Payment Bond	LS	1	\$ 7,403.50	\$ 7,403.50		\$ -	\$ 8,000.00	\$ 8,000.00
3	Maintenance of Traffic	LS	1	\$ 6,500.00	\$ 6,500.00	\$ 22,000.00	\$ 22,000.00	\$ 15,000.00	\$ 15,000.00
4	General Restoration - (Includes grading, seeding, and mulching all areas disturbed during construction and general restoration of project.)	LS	1	\$ 16,393.00	\$ 16,393.00	\$ 40,000.00	\$ 40,000.00	\$ 25,000.00	\$ 25,000.00
5	Concrete Restoration	SY	759	\$ 47.35	\$ 35,938.65	\$ 72.00	\$ 54,648.00	\$ 50.00	\$ 37,950.00
6	Survey Layout & Record Drawings	LS	1	\$ 9,620.00	\$ 9,620.00	\$ 21,500.00	\$ 21,500.00	\$ 10,000.00	\$ 10,000.00
7	Construction Testing (Pressure, Bacteriological, Density Testing)	LS	1	\$ 21,522.80	\$ 21,522.80	\$ 4,000.00	\$ 4,000.00	\$ 3,500.00	\$ 3,500.00
Site Work									
8	8" C-900 DR-18 PVC Water Main (including fittings, restraints, adapters, etc.)	LF	2,966	\$ 73.41	\$ 217,734.06	\$ 80.00	\$ 237,280.00	\$ 76.00	\$ 225,416.00
9	8" DR-11 HDPE Water Main by Directional Drill (including fittings, restraints, adapters, etc.)	LF	1,173	\$ 102.46	\$ 120,185.58	\$ 100.00	\$ 117,300.00	\$ 76.00	\$ 89,148.00
10	8" Gate Valve	EA	5	\$ 3,505.24	\$ 17,526.20	\$ 1,900.00	\$ 9,500.00	\$ 2,000.00	\$ 10,000.00
11	2" Air Release Valve	EA	3	\$ 9,346.03	\$ 28,038.09	\$ 6,500.00	\$ 19,500.00	\$ 5,000.00	\$ 15,000.00
12	Connect to existing 10" (tapping sleeve and valve, etc)	EA	1	\$ 8,235.96	\$ 8,235.96	\$ 5,000.00	\$ 5,000.00	\$ 7,500.00	\$ 7,500.00
13	Connect to existing 8"	EA	1	\$ 7,137.42	\$ 7,137.42	\$ 4,000.00	\$ 4,000.00	\$ 5,000.00	\$ 5,000.00
GRAND TOTAL					\$537,965.26		\$ 559,728.00		\$ 481,514.00

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AGREEMENT FORM

PART 1 GENERAL

1.01 **THIS AGREEMENT**, made this 29th day of July, 2020, by and between Utilities Inc. of Florida, hereinafter called the Owner, and Tri-Sure Corporation, doing business as a Corporation and hereinafter called the Contractor.

1.02 **The Owner and Contractor agree as follows:**

A. **Contract Documents**

The Contract Documents include the Agreement, Contractor's Bid, Notice to Proceed, any technical specifications, Change Orders, Work Change Directives and Field Orders issued on or after the Effective Date of this Agreement. These form the Contract and all are as fully a part of the Contract as if attached to this Agreement or repeated herein.

B. **Scope of Work**

The Contractor shall perform all work required by the Contract Documents for the construction of the Crescent Bay Raw Water Main

C. **Contract Time**

The Contractor shall begin work within 10 days after the issuance of a written Notice to Proceed and shall substantially complete the work within 180 calendar days from the date of the Notice to Proceed. The work shall be finally complete, ready for Final Payment within 30 calendar days from the actual date of substantial completion.

NAME OF PROJECT: Crescent Bay Raw Water Main

D. Liquidated Damages

OWNER and CONTRACTOR recognize that time is of the essence of this Agreement and that OWNER will suffer financial loss if the Work is not substantially complete within the time specified in Paragraph C above, plus any extensions thereof allowed in accordance with the General Conditions. They also recognize the delays, expense and difficulties involved in proving in a legal arbitration proceeding the actual loss suffered by OWNER if the Work is not substantially complete on time. Accordingly, instead of requiring any such proof, OWNER and CONTRACTOR agree that as liquidated damages for delay (but not as a penalty) CONTRACTOR shall pay OWNER \$500.00 for each calendar day that expires after the time specified in Paragraph C for substantial completion until the work is substantially complete. It is agreed that if this Work is not Finally completed in accordance with the Contract Documents, the CONTRACTOR shall pay the OWNER as liquidated damages for delay, and not as penalty, one-fourth ($\frac{1}{4}$) of the rate set forth above.

E. Contract Price

Unit Price Contract

The Owner will pay the Contractor in current funds for the performance of the work, subject to additions and deductions by Change Order and subject to actual constructed quantities; the Total Contract Price of Four hundred eighty-one thousand five hundred fourteen dollars and zero cents (\$481,514.00).

Payments will be made to the Contractor on the basis of the Schedule of Unit Prices included as a part of his Bid, which shall be as fully a part of the Contract as if attached or repeated herein.

F. Payments

The Owner will make payments subject to actual constructed quantities.

G. Retainage

The value of each application for payment shall be equal to the total value of the Work performed to date, less an amount retained, and less payments previously made. Retainage for this project is 10%, to be held by Owner as collateral security to ensure completion of Work. The Owner is not obligated to reduce retainage at any time during the Contract but may choose to do so at its discretion once the Work is at least 75% complete.

NAME OF PROJECT: Crescent Bay Raw Water Main

IN WITNESS WHEREOF, the parties hereto have executed this Agreement the day and year first above written.

CONTRACTOR:

TRI-SURE CORP.
Name of Firm


By (Signature)

Jason Chambers President
Printed Name and Title

(SEAL)



ATTEST:


By (Signature)

Kerri Chambers Secretary
Printed Name and Title

OWNER:

Utilities Inc. of Florida
Name of Owner's Representative


By (Signature)

Bryan K. Gungre, Regional Mgr.
Printed Name and Title

(SEAL)

ATTEST:


By (Signature)

Susan M. DiPasquale
Printed Name and Title

END OF SECTION

NAME OF PROJECT: Crescent Bay Raw Water Main

NOTICE TO PROCEED FORM

TO: Tri-Sure Corporation
P.O. Box 653
Auburndale, FL 33823

DATE: August 31, 2020

PROJECT: Crescent Bay Raw Water Main

You are hereby notified to commence WORK in accordance with the Agreement dated 7/29/2020. This Notice authorizes the CONTRACTOR to commence construction, and, in accordance with the Agreement, all work shall be substantially complete within 180 calendar days of the date of this Notice to Proceed. Therefore, the date of substantial completion is February 27, 2021. The date of Final completion is March 29, 2021

ISSUED BY: Utilities Inc. of Florida
(Name of OWNER)

Bryank Gongre
By (Signature)

Bryank Gongre, Regional Manager
(Printed Name and Title)

ACCEPTANCE OF NOTICE

Receipt and acceptance of the above NOTICE TO PROCEED is hereby acknowledged by TRI-SURE CORP. this 28th day of JULY.

Jason Chambos
By
Jason Chambos President
Printed Name and Title

END OF SECTION