Ivins City Staff Report
City Council Meeting 4/6/2023

Agenda Item: Discuss and consider approval of expenditure for construction of 400 East Storm Drain Replacement project.

Submitted by: Thomas J. Jorgensen, P.E. Assistant City Engineer

Recommended City Council Action:
Approve expenditure of $896,608.75 for construction of 400 East Storm Drain Replacement project, plus an additional $80,000 for contingency for a total of $976,608.75

BACKGROUND:

400 East, also know as the Ivins City flood street, has a storm drain trunk line that currently exists down the center line of the roadway. The roadway is inverted and has a concrete valley gutter running down the center. The existing pipe was installed in the early 1990's and the city has had issues with the pipeline for many years. When the pipe was originally installed, the joints were not intended to be "under pressure" or watertight. The public works field crew, following major storm events, have been called out to fix many significant sink holes. Since the joints of the original pipe were not watertight, during significant storm events, water pushes out through the joints and washes out soil from around the joints and down the pipeline, causing sink holes above the pipeline. These sink holes have also caused damage to the valley gutter running down the center of the roadway. Additionally, during the original construction, a concrete collar was placed around each pipe joint. The concrete for each of those joints slumped down partially before curing could occur, essentially making a small "dam" at each joint. These dams are causing turbulence and effectively reducing the overall capacity of the trunkline and contributing to the sink hole issue. Lastly, our most recent storm drain master plan shows this storm drain trunk line as being deficient is capacity. Due to these reasons stated above, it has been in the plan to replace and upsize the storm drain line down 400 East.

With that being said, a new development in Santa Clara has been approved and is beginning construction along the east side 400 East from 600 South to 800 South. As part of their development, Santa Clara will be installing the east half of the roadway (which is currently unimproved). Before these improvements are installed, staff is recommending that this portion of storm drain line be removed and replaced along with the damaged concrete valley gutter. Replacing this portion of storm drain line now would prevent the City from incurring additional expenses in the future for having to replace asphalt being installed as part of the Santa Clara development.

FINDINGS AND ANALYSIS:

Staff has publicly advertised for requests for bids, the results of the bid can be found below.

Whitaker Construction	$ 896,608.75
Vancon Inc.	$ 970,358.00
Original Dirt Company	$1,041,007.50

Staff have reviewed the bids and Whitaker Construction is the low bidder on the project. Staff recommends that Council approve the expenditure of $896,608.75 plus an additional $80,000 for a total of $976,608.75 for this project.

SUPPORT MATERIALS:

- Bid Tabulation

FINANCIAL IMPACT:

The expense has not been budgeted. The following GL Code would be used:
53-4287.9: $976,608.75

Respectfully Submitted: _____
Thomas J. Jorgensen, P.E. Assistant City Engineer

Content Review: _____
Dale Coulam, City Manager

Bid Tabulation - 3/28/2023
Ivins City
Project - 400 East Storm Drain Project

400 EAST STORM DRAIN PROJECT

				Whitaker Construction		Vancon Inc.		Original Dirt Company	
ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL	UNIT PRICE	TOTAL	UNIT PRICE	TOTAL
1	Mobilization	1	LS	$ 40,200.000	$ 40,200.00	$ 100,000.0000	$ 100,000.00	$ 10,000.000	$ 10,000.00
2	Construction Staking	1	LS	$ 4,020.000	$ 4,020.00	$ 10,000.0000	$ 10,000.00	$ 5,000.000	$ 5,000.00
3	Dust Control & Watering	1	LS	$ 28,300.000	$ 28,300.00	$ 6,000.0000	$ 6,000.00	$ 10,000.000	$ 10,000.00
4	Materials Testing	1	LS	$ 4,690.000	$ 4,690.00	$ 10,000.0000	$ 10,000.00	$ 10,000.000	$ 10,000.00
5	Traffic Control	1	LS	$ 15,300.000	$ 15,300.00	$ 15,000.0000	$ 15,000.00	$ 30,000.000	$ 30,000.00
6	Sawcut Existing Asphalt, Removal, and Haul off	8,825	LF	$ 0.750	$ 6,618.75	$ 2.0000	$ 17,650.00	$ 7.500	$ 66,187.50
7	Asphalt Replacement - 4" Asphalt w/6" Base Course	8,825	SF	$ 5.500	$ 48,537.50	$ 6.0000	$ 52,950.00	$ 8.000	$ 70,600.00
8	4' Concrete Waterway w/Base Course (includes removal and disposal of existing waterway)	1,765	LF	$ 69.500	$ 122,667.50	$ 60.0000	$ 105,900.00	$ 50.000	$ 88,250.00
9	42" Class III RCP (includes removal and disposal of 36" pipe)	339	LF	$ 235.000	$ 79,665.00	$ 304.0000	$ 103,056.00	$ 330.000	$ 111,870.00
10	48" Class III RCP (includes removal and disposal of existing 36" pipe)	1,426	LF	$ 310.000	$ 442,060.00	$ 327.0000	$ 466,302.00	$ 350.000	$ 499,100.00
11	Storm Drain Inlet Box (includes removal and disposal of existing boxes)	6	EA	$ 16,200.000	$ 97,200.00	$ 12,500.0000	$ 75,000.00	$ 20,000.000	$ 120,000.00
12	Waterline Loop	1	LS	$ 7,350.000	$ 7,350.00	$ 8,500.0000	$ 8,500.00	$ 20,000.000	$ 20,000.00
			TOTAL	$	896,608.75	$	970,358.00	$	1,041,007.50