Ivins City Staff Report
City Council Meeting 4/3/2014

Agenda Item: Discuss and consider expenditure and award of Contract No. 14-05 400 West Waterline

Submitted by: Charles R. Gillette, P.E., City Engineer

Recommended City Council Action:
Approve expenditure of $215,000 and award Contract No. 14-05 400 West Waterline to Quality Excavation

BACKGROUND:

The project consists of installation of a 12-inch waterline on 400 West between 400 South and Old Highway 91, this is an upsizing of an old 6-inch waterline. The waterline has been designated for upsizing by the culinary water capital facilities plan so accommodate future growth on the south side of the highway. As part of the project, the old chipseal road will be reconstructed and realigned to line up with Guy Lane.

FINDINGS AND ANALYSIS:

The project was released and advertised in the local newspaper The Spectrum. Sealed bids were received and opened from six prospective contractors on March 26, 2014. The bids ranged from $204,878 to $276,175. The engineer's estimate was $230,000. Quality Excavation submitted the lowest bid.

Staff recommends awarding the bid to Quality Excavation for the bid price of 204,787 plus a 5% contingency for a total expenditure approval of $215,000.

If council awards the contract, the project will start approximately mid-April and be completed in approximately mid-June.

SUPPORT MATERIALS:

- Project Drawings
- Bid Tabulation

FINANCIAL IMPACT:

GL51-42-870: $215,000 (eligible for impact fees)

Respectfully Submitted: _____
Charles R. Gillette, P.E., City Engineer

Content Review: _____
Dale Coulam, City Manager

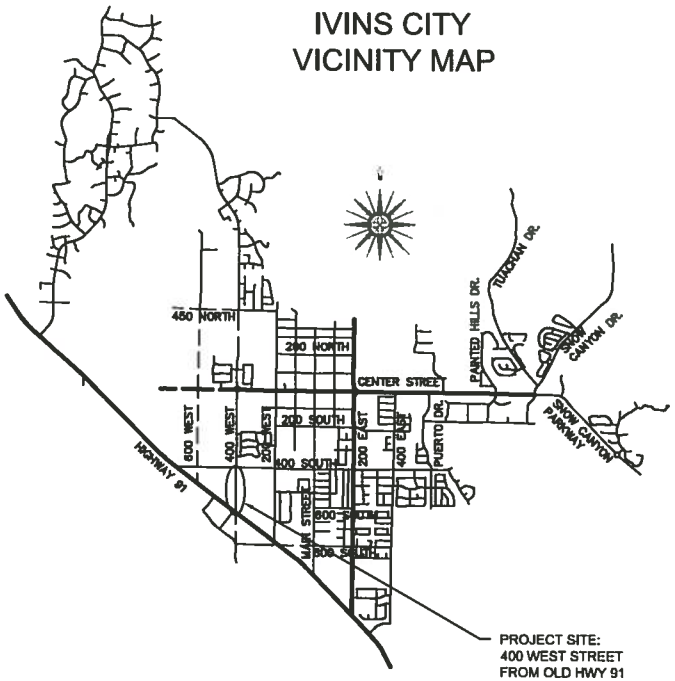
IVINS CITY
CONTRACT NO. 14-05
400 WEST WATER LINE UPSIZING

LICENSED PROFESSIONAL ENGINEER
No. 343721
CHARLES R. GILLETTE
STATE OF UTAH
2014.03.10 11:26:32 -06'00'

GENERAL NOTES

1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN STRICT CONFORMANCE TO THE "STANDARD SPECIFICATIONS FOR DESIGN AND CONSTRUCTION IVINS CITY."
2. THE EXACT LOCATIONS OF SAW CUT LINES MAY BE DETERMINED IN THE FIELD BY IVINS CITY
3. ALL CONSTRUCTION SIGNING, BARRICADING, AND TRAFFIC DELINEATION SHALL CONFORM TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES-CURRENT EDITION."
4. CURB AND GUTTER WITH A GRADE LESS THAN FOUR-TENTHS OF ONE PERCENT SHALL BE CONSTRUCTED BY FORMING. EACH JOINT SHALL BE CHECKED FOR GRADE PRIOR TO CONSTRUCTION AND WATER TESTED AS SOON AS POSSIBLE AFTER CONSTRUCTION.
5. ALL CEMENT SHALL BE TYPE V.
6. ALL EXISTING CONSTRUCTION, TO BE MET BY NEW CONSTRUCTION, SHALL BE FIELD VERIFIED FOR VERTICAL AND HORIZONTAL LOCATIONS BEFORE THE START OF DEPENDENT NEW CONSTRUCTION. THE ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCY OF EXISTING CONDITIONS FROM THOSE SHOWN ON THE PLANS BEFORE THE START OF THE NEW CONSTRUCTION SO THAT ANY CHANGES WHICH MAY BE REQUIRED CAN BE MADE.
7. ANY ERRORS OR DISCREPANCIES IN THE PLANS SHALL BE REPORTED TO THE DESIGN ENGINEER PRIOR TO COMMENCEMENT OF THE CONSTRUCTION. ERRORS OR DISCREPANCIES DISCOVERED AFTER THE COMMENCEMENT OF CONSTRUCTION, SHALL ALSO BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE DESIGN ENGINEER. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REPORT SUCH ERRORS OR DISCREPANCIES UPON DISCOVERY. IT IS THE DESIGN ENGINEER'S RESPONSIBILITY TO RESOLVE SUCH ERRORS OR DISCREPANCIES WITH THE CONCURRENCE OF HIS CLIENT AND WITH THE APPROVAL OF THE CITY ENGINEER.
8. ALL WORK WITHIN PUBLIC RIGHTS-OF-WAY AND EASEMENTS, SHALL BE WARRANTED BY THE CONTRACTOR(S), FOR ONE YEAR FROM THE DATE OF FINAL APPROVAL.
9. THE CONTRACTOR SHALL COORDINATE A PRE-CONSTRUCTION MEETING IN ACCORDANCE WITH CITY REQUIREMENTS PRIOR TO ANY WORK.
10. CALL 811 AT LEAST TWO WORKING DAYS BEFORE YOU DIG TO NOTIFY UNDERGROUND SERVICE ALERT. EXISTING UTILITIES ARE SHOWN ON PLANS FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES. THE ENGINEER BEARS NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR SHOWN INCORRECTLY.
11. DIMENSIONS SHOWN TAKE PRECEDENCE OVER SCALING
12. THE CONTRACTOR SHALL TAKE THE NECESSARY PRECAUTIONS TO PROTECT EXISTING SURVEY MONUMENTS. ANY MONUMENTS DISTURBED SHALL BE REPLACED AT THE EXPENSE OF THE CONTRACTOR BY A REGISTERED LAND SURVEYOR.
13. BACKFILL SHALL NOT BE PLACED IN ANY UTILITY OR DRAINAGE TRENCHES UNTIL THEY HAVE BEEN INSPECTED AND APPROVED BY IVINS CITY. THE CITY SHALL BE NOTIFIED AT LEAST ONE WORKING DAY PRIOR.
14. FILL MATERIAL SHALL NOT INCLUDE ORGANIC, FROZEN OR OTHER DELETERIOUS MATERIALS. NO ROCK OR SIMILAR IRREDUCIBLE MATERIAL GREATER THAN 12 INCHES IN ANY DIMENSION SHALL BE INCLUDED IN FILLS.
15. ALL FILL MATERIAL SHALL BE COMPACTED IN ACCORDANCE WITH IVINS CITY STANDARDS.

IVINS CITY VICINITY MAP



LIST OF DRAWINGS	
SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	PLAN VIEW 1
3	PLAN VIEW 2

IVINS CITY
55 N. Main Street
Ivins, Utah 84738
435-634-0689
435-674-5486 (fax)

SCALE
PAPER UNITS
1"
0.5"
0.25"
0

IVINS CITY
CONTRACT NO. 14-05: 400 WEST WATER LINE UPSIZING

TITLE SHEET

DATE: 3/7/14
DRAWN BY: CRG
CHECKED BY: CRG

SHEET NO.
1
TOTAL SHEETS: 3



IVINS CITY
55 N. Main Street
Ivins, Utah 84738
435-834-0689
435-674-5486 (fax)

SCALE

PAPER UNITS	DRAWING UNITS
1"	60'
0.5"	30'
0.25"	15'
0	0

IVINS CITY
CONTRACT NO. 14-05: 400 WEST WATER LINE UPSIZING
PLAN 1

DATE: 3/7/2014
DRAWN BY: CRG
CHECKED BY: CRG

SHEET NO.
2
TOTAL SHEETS: 3



IVINS CITY
55 N. Main Street
Ivins, Utah 84738
435-634-0689
435-674-5486 (fax)

SCALE

PAPER UNITS	DRAWING UNITS
1"	60'
0.5"	30'
0.25"	15'
0	0

IVINS CITY
CONTRACT NO. 14-05: 400 WEST WATER LINE UPSIZING
PLAN 2

DATE: 3/7/2014
DRAWN BY: CRG
CHECKED BY: CRG

SHEET NO.
3
TOTAL SHEETS: 3

400 West Waterline Upsizing
Bid Tabulation

		Quality Excavation				Royal T Enterprises		JP Excavating	
Item	Description	Quantity	Unit	Unit Price	Price	Unit Price	Price	Unit Price	Price
1	Mobilization, includes any items required to complete work but not covered in another bid item.	1	LS	$ 8,034.59	$ 8,034.59		$ 17,580.00	$ 21,700.00	$ 21,700.00
2	Provide Engineering and construction surveying by licensed professionals to match intent of provided bid drawings and design a vertical profile for 400 West and Old Highway 91	1	LS	$ 9,030.00	$ 9,030.00	$ 4,500.00	$ 4,500.00	$ 8,000.00	$ 8,000.00
3	Demolition - Remove and dispose existing pump station building; remove piping in existing pump station underground piping as shown on plans	1	LS	$ 1,947.00	$ 1,947.00	$ 1,000.00	$ 1,000.00	$ 2,200.00	$ 2,200.00
4	Demolition - Remove existing chipseal 1 - 1.5" thick	32000	SF	$ 0.13	$ 4,160.00	$ 0.13	$ 4,160.00	$ 0.19	$ 6,080.00
5	Plug and cap existing 6" pipe in 3 places, remove concrete collar from 2 valves and bury valves in place in an open position.	1	LS	$ 770.00	$ 770.00	$ 1,500.00	$ 1,500.00	$ 1,000.00	$ 1,000.00
6	Minor grading and earthfilling as necessary to provide positive drainage throughout project.	1	LS	$ 1,188.00	$ 1,188.00	$ 15,000.00	$ 15,000.00	$ 5,000.00	$ 5,000.00
7	Relocate existing signs and cluster mailboxes as necessary to accommodate project	1	LS	$ 1,430.00	$ 1,430.00	$ 750.00	$ 750.00	$ 2,000.00	$ 2,000.00
8	Furnish and install 12" C900 water line, includes all bends, tees and appurtenances	1492	LF	$ 43.90	$ 65,498.80	$ 33.25	$ 49,609.00	$ 40.00	$ 59,680.00
9	Furnish and install 12" water gate valves and valve box	2	EA	$ 2,353.79	$ 4,707.58	$ 2,500.00	$ 5,000.00	$ 2,900.00	$ 5,800.00
10	Furnish and install 8" C900 water line, includes all bends, tees and appurtenances	87	LF	$ 49.67	$ 4,321.29	$ 41.65	$ 3,624.00	$ 40.00	$ 3,480.00
11	Furnish and install 8" water gate valves and valve box	2	EA	$ 1,313.13	$ 2,626.26	$ 1,500.00	$ 3,000.00	$ 1,600.00	$ 3,200.00
12	Connect new pipe to existing pipe including any reducers and other fittings in accordance with City specifications.	4	EA	$ 573.17	$ 2,292.68	$ 1,000.00	$ 4,000.00	$ 900.00	$ 3,600.00
13	Replace and reconnect existing 3/4" service lines	6	EA	$ 510.32	$ 3,061.92	$ 420.00	$ 2,520.00	$ 650.00	$ 3,900.00
14	Relocate and reconnect fire hydrant assembly	1	EA	$ 1,674.01	$ 1,674.01	$ 1,000.00	$ 1,000.00	$ 3,200.00	$ 3,200.00
15	Reconnect fire hydrant assembly in place	1	EA	$ 1,245.01	$ 1,245.01	$ 1,000.00	$ 1,000.00	$ 1,200.00	$ 1,200.00
16	Furnish and install fire hydrant, 6-inch lateral, and valve assembly	1	EA	$ 4,222.97	$ 4,222.97	$ 5,000.00	$ 5,000.00	$ 4,000.00	$ 4,000.00
17	Install new asphalt concrete, 2.5 inches thick	35461	SF	$ 1.33	$ 47,163.13	$ 1.30	$ 46,099.00	$ 1.33	$ 47,163.13
18	Furnish and install 8 inches of roadbase over 12 inches of recompacted native subgrade, includes excavation and native soil removals	38670	SF	$ 0.73	$ 28,229.10	$ 0.85	$ 32,870.00	$ 0.84	$ 32,482.80
19	Furnish and Install 8-foot wide concrete crossgutter including roadbase and preparation of subgrade per Ivins City Standards	440	SF	$ 6.74	$ 2,965.60	$ 10.00	$ 4,400.00	$ 8.00	$ 3,520.00
20	Install 2' gravel shoulder along 400 West, both sides, and along deceleration lane	3200	LF	$ 0.93	$ 2,976.00	$ 0.50	$ 1,600.00	$ 2.00	$ 6,400.00
21	Install new asphalt concrete, 3 inches thick (Deceleration Lane)	3209	SF	$ 1.60	$ 5,134.40	$ 2.00	$ 6,418.00	$ 1.70	$ 5,455.30
22	Furnish and install concrete water valve cluster collar	4	EA	$ 550.00	$ 2,200.00	$ 300.00	$ 1,200.00	$ 300.00	$ 1,200.00
				Total	$ 204,878.34	*Total	$ 211,830.00	Total	$ 230,261.23

*** Errors detected in bid proposal calculation**

400 West Waterline Upsizing
Bid Tabulation

				Interstate Rock Products		Dennett Construction		Progressive Contracting	
Item	Description	Quantity	Unit	Unit Price	Price	Unit Price	Price	Unit Price	Price
1	Mobilization, includes any items required to complete work but not covered in another bid item.	1	LS	$ 25,000.00	$ 25,000.00	$ 10,000.00	$ 10,000.00	$ 14,210.00	$ 14,210.00
2	Provide Engineering and construction surveying by licensed professionals to match intent of provided bid drawings and design a vertical profile for 400 West and Old Highway 91	1	LS	$ 6,000.00	$ 6,000.00	$ 5,000.00	$ 5,000.00	$ 7,997.00	$ 7,997.00
3	Demolition - Remove and dispose existing pump station building; remove piping in existing pump station underground piping as shown on plans	1	LS	$ 4,000.00	$ 4,000.00	$ 10,000.00	$ 10,000.00	$ 3,480.00	$ 3,480.00
4	Demolition - Remove existing chipseal 1 - 1.5" thick	32000	SF	$ 0.15	$ 4,800.00	$ 5,000.00	$ 5,000.00	$ 0.21	$ 6,720.00
5	Plug and cap existing 6" pipe in 3 places, remove concrete collar from 2 valves and bury valves in place in an open position.	1	LS	$ 3,000.00	$ 3,000.00	$ 3,000.00	$ 3,000.00	$ 4,176.00	$ 4,176.00
6	Minor grading and earthfilling as necessary to provide positive drainage throughout project.	1	LS	$ 3,300.00	$ 3,300.00	$ 3,000.00	$ 3,000.00	$ 13,920.00	$ 13,920.00
7	Relocate existing signs and cluster mailboxes as necessary to accommodate project	1	LS	$ 700.00	$ 700.00	$ 1,000.00	$ 1,000.00	$ 1,044.00	$ 1,044.00
8	Furnish and install 12" C900 water line, includes all bends, tees and appurtenances	1492	LF	$ 33.00	$ 49,236.00	$ 34.00	$ 50,728.00	$ 43.26	$ 64,543.92
9	Furnish and install 12" water gate valves and valve box	2	EA	$ 2,600.00	$ 5,200.00	$ 3,400.00	$ 6,800.00	$ 3,503.13	$ 7,006.26
10	Furnish and install 8" C900 water line, includes all bends, tees and appurtenances	87	LF	$ 52.00	$ 4,524.00	$ 34.00	$ 2,958.00	$ 60.34	$ 5,249.58
11	Furnish and install 8" water gate valves and valve box	2	EA	$ 1,560.00	$ 3,120.00	$ 1,500.00	$ 3,000.00	$ 1,953.15	$ 3,906.30
12	Connect new pipe to existing pipe including any reducers and other fittings in accordance with City specifications.	4	EA	$ 2,230.00	$ 8,920.00	$ 1,500.00	$ 6,000.00	$ 6,195.94	$ 24,783.76
13	Replace and reconnect existing 3/4" service lines	6	EA	$ 1,100.00	$ 6,600.00	$ 1,000.00	$ 6,000.00	$ 881.52	$ 5,289.12
14	Relocate and reconnect fire hydrant assembly	1	EA	$ 4,740.00	$ 4,740.00	$ 1,500.00	$ 1,500.00	$ 5,764.32	$ 5,764.32
15	Reconnect fire hydrant assembly in place	1	EA	$ 1,740.00	$ 1,740.00	$ 1,000.00	$ 1,000.00	$ 2,600.52	$ 2,600.52
16	Furnish and install fire hydrant, 6-inch lateral, and valve assembly	1	EA	$ 900.00	$ 900.00	$ 4,000.00	$ 4,000.00	$ 5,764.32	$ 5,764.32
17	Install new asphalt concrete, 2.5 inches thick	35461	SF	$ 1.47	$ 52,127.67	$ 1.56	$ 55,319.00	$ 1.38	$ 48,936.18
18	Furnish and install 8 inches of roadbase over 12 inches of recompacted native subgrade, includes excavation and native soil removals	38670	SF	$ 0.86	$ 33,256.20	$ 1.00	$ 38,670.00	$ 0.84	$ 32,482.80
19	Furnish and Install 8-foot wide concrete crossgutter including roadbase and preparation of subgrade per Ivins City Standards	440	SF	$ 8.00	$ 3,520.00	$ 10.00	$ 4,440.00	$ 1.23	$ 541.20
20	Install 2' gravel shoulder along 400 West, both sides, and along deceleration lane	3200	LF	$ 1.00	$ 3,200.00	$ 1.60	$ 5,120.00	$ 3.35	$ 10,720.00
21	Install new asphalt concrete, 3 inches thick (Deceleration Lane)	3209	SF	$ 1.70	$ 5,455.30	$ 2.00	$ 6,418.00	$ 1.76	$ 5,647.84
22	Furnish and install concrete water valve cluster collar	4	EA	$ 400.00	$ 1,600.00	$ 500.00	$ 2,000.00	$ 348.00	$ 1,392.00
				Total	$ 230,939.17	*Total	$ 230,953.00	*Total	$ 276,175.12

*** Errors detected in bid proposal calculation**