Ivins City Staff Report
City Council Meeting 10/17/2024

Agenda Item: Discuss and Consider Award for the Old Highway 91 – Phase 2 Project

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

Recommended City Council Action:
Approve expenditure of $3,748,101.20 for construction for Old Highway 91 - Phase 2 Project.

BACKGROUND:

Ivins recently completed the phase one project along Old Highway 91 that involved resurfacing of the existing pavement, adding additional pavement for a bike lane, enhancing intersections, and installing a trail along the north side of the highway. Most of these improvements took place between 200 East and 600 West, so Ivins is now looking to take these improvements and extend them from 600 West to out beyond Fire Lake Park as part of a phase two project.

Phase 2 of the project, like Phase 1, will include similar elements which are as follows:

- Resurfacing the existing pavement and extending the pavement on both the north and south sides for bike lanes from 600 West to Fire Lake Park.
- The portions of trail that were left out of Phase 1.
- Extension of two box culverts to accommodate the bike lanes and trail.
- Approximately 4,400 feet of sewer line.
- Various miscellaneous items including grading (a couple steep slopes need to be laid back at a slope closer to 4:1), minor storm drain improvements, and some conduit installation.
- A retaining wall for slope stabilization of a portion of hillside next to the existing trail. This portion of the project was added as two alternates to be able to explore the cost of two different wall types and aesthetics.
- Intersection improvements and turn lanes at Anasazi Road, Kayenta Parkway, and Fire Lake Park.

FINDINGS AND ANALYSIS:

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

Contractor	Base Bid	Add. Alternate #1	Add. Alternate #2
JP Excavating	$3,379,121.20	$133,980.00	$186,780.00
Landmark Excavation	$3,396,965.00	$156,255.00	$186,780.00
Sunroc Corporation	$3,401,028.29	$263,505.00	$188,100.00
Feller Enterprises	$3,653,995.87	$197,472.00	$215,127.00
M&T Enterprises	$3,736,627.80	$175,560.00	$165,660.00
Whitaker Construction	$3,816,363.00	$160,380.00	$216,450.00

After reviewing the bids, Staff is recommending awarding the contract to JP Excavating for the base bid amount for $3,379,121.20 and are confident of their qualifications and reasonable pricing.

Staff has included Additive Alternates #1 and #2 in the bid. Alternate #1 is the pre-cast retaining wall that has been previously used at the cemetery and City Hall. Alternate #2 is a cast-in-place wall, featuring a front layer of concrete that can be shaped or carved in various ways to resemble stone. Staff wanted to explore both options to see which would be more cost effective. Staff recommends that the council approve Additive Alternate #1 for the slope stabilization wall, which is priced at $133,980. This option utilizes the same type of wall previously implemented at both the cemetery and City Hall and is the more cost-effective alternative. It is important to mention that both alternates include color staining. Staff are also exploring a third wall variation. The third option would be a stacked lava rock like the one used in the first phase and recommended by Terry Marten. This option may not be feasible because the height of soil being retained is greater than what was retained in Phase 1. However, this third option has the potential to be even more cost-effective if proven feasible.

Staff is also recommending the following expenses:

Contingency: $200,000
Construction Management by Mainline Engineering: $15,000
Soils Testing and Quality Assurance: $20,000

Total Expenses: $3,748,101.20

Lastly, a section of the roadway owned and maintained by the County at the city border requires some work. The County has tentatively agreed to cover their share of the cost, approximately $100,000. If this funding is secured, the financial impact listed below will be reduced by that amount.

SUPPORT MATERIALS:

- Bid Tabulation

FINANCIAL IMPACT:

The expense has been budgeted:
Street Impact Fees: $1,100,000
Grants:
Governor's Office of Economic Development – Outdoor Recreation Infrastructure Grant: $150,000
Washington County – Tourism Office: $1,000,000
Capital Project Fund Savings (3946.0): $1,300,000
Sewer Impact Fees: $198,101.20

Respectfully Submitted:

Thomas J. Jorgensen, P.E. Assistant City Engineer

Content Review:

Dale Coulam, City Manager

IVINS CITY

OLD HWY 91 - PHASE 2 PROJECT

BID TAB - OCTOBER 9, 2024

				Engineer's Estimate		JP Excavation		Landmark Excavation		Sunroc Corporation		Feller Enterprises		M&T Enterprises		Whitaker Const.	
Item #	Item	Quantity	Units	Unit Price	Price	Unit Price	Price	Unit Price	Price	Unit Price	Price	Unit Price	Price	Unit Price	Price	Unit Price	Price
1	MOBILIZATION	1	LUMP	$200,000.00	$200,000.00	$130,000.00	$130,000.00	$96,322.00	$96,322.00	$137,000.00	$137,000.00	$250,000.00	$250,000.00	$81,400.00	$81,400.00	$235,000.00	$235,000.00
2	TRAFFIC CONTROL	1	LUMP	$80,000.00	$80,000.00	$85,000.00	$85,000.00	$125,000.00	$125,000.00	$85,625.00	$85,625.00	$125,000.00	$125,000.00	$98,200.00	$98,200.00	$250,000.00	$250,000.00
3	ENVIRONMENTAL PROTECTION	1	LUMP	$25,000.00	$25,000.00	$20,000.00	$20,000.00	$39,000.00	$39,000.00	$33,500.00	$33,500.00	$11,000.00	$11,000.00	$13,600.00	$13,600.00	$12,000.00	$12,000.00
4	SURVEY	1	LUMP	$40,000.00	$40,000.00	$5,000.00	$5,000.00	$38,000.00	$38,000.00	$30,650.00	$30,650.00	$38,881.95	$38,881.95	$31,300.00	$31,300.00	$10,000.00	$10,000.00
5	LANDSCAPE RESTORATION	1,000	SQ FT	$5.00	$5,000.00	$7.50	$7,500.00	$5.00	$5,000.00	$7.00	$7,000.00	$9.45	$9,450.00	$8.70	$8,700.00	$7.85	$7,850.00
6	ROADWAY EXCAVATION (PLAN QUANTITY)	22,395	CU YD	$20.00	$447,900.00	$8.00	$179,160.00	$13.00	$291,135.00	$14.65	$328,086.75	$5.07	$113,542.65	$21.50	$481,492.50	$18.00	$403,110.00
7	RECONSTRUCT MANHOLE	14	EACH	$1,500.00	$21,000.00	$1,200.00	$16,800.00	$985.00	$13,790.00	$1,090.00	$15,260.00	$1,132.59	$15,856.26	$1,060.00	$14,840.00	$2,250.00	$31,500.00
8	RECONSTRUCT AIR/VAC MANHOLE	1	EACH	$2,500.00	$2,500.00	$1,200.00	$1,200.00	$1,030.00	$1,030.00	$1,135.00	$1,135.00	$1,132.59	$1,132.59	$1,110.00	$1,110.00	$2,400.00	$2,400.00
9	REPLACE GRATED LID WITH NEW SOLID STORM DRAIN LID	10	EACH	$750.00	$7,500.00	$1,000.00	$10,000.00	$775.00	$7,750.00	$680.00	$6,800.00	$716.36	$7,163.60	$1,060.00	$10,600.00	$630.00	$6,300.00
10	RECONSTRUCT VALVE BOX	9	EACH	$1,000.00	$9,000.00	$1,100.00	$9,900.00	$785.00	$7,065.00	$1,035.00	$9,315.00	$732.40	$6,591.60	$845.00	$7,605.00	$1,300.00	$11,700.00
11	RECONSTRUCT WATER METER BOX	2	EACH	$1,500.00	$3,000.00	$700.00	$1,400.00	$380.00	$760.00	$620.00	$1,240.00	$755.11	$1,510.22	$405.00	$810.00	$1,550.00	$3,100.00
12	REMOVE 18 INCH END SECTION	2	EACH	$500.00	$1,000.00	$600.00	$1,200.00	$250.00	$500.00	$158.00	$316.00	$527.01	$1,054.02	$275.00	$550.00	$290.00	$580.00
13	REMOVE FENCE	1,600	FEET	$5.00	$8,000.00	$3.30	$5,280.00	$3.00	$4,800.00	$2.98	$4,768.00	$3.35	$5,360.00	$3.10	$4,960.00	$3.00	$4,800.00
14	REMOVE SIGN	9	EACH	$200.00	$1,800.00	$275.00	$2,475.00	$160.00	$1,440.00	$220.00	$1,980.00	$234.17	$2,107.53	$215.00	$1,935.00	$200.00	$1,800.00
15	REMOVE 4-INCH GATE VALVE	1	EACH	$1,000.00	$1,000.00	$700.00	$700.00	$400.00	$400.00	$215.00	$215.00	$627.68	$627.68	$295.00	$295.00	$900.00	$900.00
16	RELOCATE 18 INCH END SECTION	2	EACH	$500.00	$1,000.00	$1,400.00	$2,800.00	$1,800.00	$3,600.00	$201.00	$402.00	$627.68	$1,255.36	$830.00	$1,660.00	$800.00	$1,600.00
17	RELOCATE RIGHT OF WAY FENCE	750	FEET	$15.00	$11,250.00	$11.00	$8,250.00	$11.00	$8,250.00	$11.85	$8,887.50	$13.49	$10,117.50	$12.00	$9,000.00	$11.00	$8,250.00
18	RELOCATE 6 INCH AIR/VAC VALVE AND VENT PIPE	2	EACH	$2,500.00	$5,000.00	$4,000.00	$8,000.00	$11,500.00	$23,000.00	$4,350.00	$8,700.00	$2,718.72	$5,437.44	$3,540.00	$7,080.00	$3,500.00	$7,000.00
19	RELOCATE CABLE FENCE	50	FEET	$20.00	$1,000.00	$77.00	$3,850.00	$76.00	$3,800.00	$82.65	$4,132.50	$94.38	$4,719.00	$81.50	$4,075.00	$80.00	$4,000.00
20	RELOCATE SIGN	32	EACH	$300.00	$9,600.00	$440.00	$14,080.00	$270.00	$8,640.00	$416.50	$13,328.00	$472.55	$15,121.60	$405.00	$12,960.00	$400.00	$12,800.00
21	RELOCATE SIGN (2 POSTS)	3	EACH	$1,000.00	$3,000.00	$330.00	$990.00	$485.00	$1,455.00	$300.00	$900.00	$337.54	$1,012.62	$290.00	$870.00	$280.00	$840.00
22	STONE CHECK DAM	30	EACH	$250.00	$7,500.00	$560.00	$16,800.00	$280.00	$8,400.00	$220.00	$6,600.00	$156.73	$4,701.90	$87.00	$2,610.00	$400.00	$12,000.00
23	LOOSE RIPRAP (D50 = 3 INCH)	800	SQ FT	$5.00	$4,000.00	$7.00	$5,600.00	$6.00	$4,800.00	$2.60	$2,080.00	$6.00	$4,800.00	$6.40	$5,120.00	$7.70	$6,160.00
24	18 INCH CORRUGATED HDPE PIPE	100	FEET	$75.00	$7,500.00	$80.00	$8,000.00	$145.00	$14,500.00	$81.55	$8,155.00	$80.43	$8,043.00	$100.00	$10,000.00	$100.00	$10,000.00
25	36 INCH CORRUGATED HDPE PIPE	25	FEET	$200.00	$5,000.00	$181.00	$4,525.00	$240.00	$6,000.00	$251.25	$6,281.25	$242.25	$6,056.25	$300.00	$7,500.00	$230.00	$5,750.00
26	36 INCH END SECTION	1	EACH	$2,000.00	$2,000.00	$2,200.00	$2,200.00	$3,200.00	$3,200.00	$2,135.00	$2,135.00	$2,304.84	$2,304.84	$2,620.00	$2,620.00	$2,500.00	$2,500.00
27	3' X 3' DIVERSION BOX	3	EACH	$5,000.00	$15,000.00	$6,000.00	$18,000.00	$2,250.00	$6,750.00	$2,275.00	$6,825.00	$2,876.43	$8,629.29	$3,250.00	$9,750.00	$4,000.00	$12,000.00
28	4' X 4' DIVERSION BOX	1	EACH	$6,000.00	$6,000.00	$8,000.00	$8,000.00	$7,000.00	$7,000.00	$7,835.00	$7,835.00	$8,507.34	$8,507.34	$7,890.00	$7,890.00	$8,850.00	$8,850.00
29	CONNECT TO EXISTING STRUCTURE	3	EACH	$2,000.00	$6,000.00	$6,000.00	$18,000.00	$1,800.00	$5,400.00	$1,800.00	$5,400.00	$3,540.45	$10,621.35	$2,960.00	$8,880.00	$1,250.00	$3,750.00
30	3' DIVERSION BOX TRASH RACK	3	EACH	$2,500.00	$7,500.00	$5,700.00	$17,100.00	$2,600.00	$7,800.00	$3,100.00	$9,300.00	$3,395.85	$10,187.55	$2,570.00	$7,710.00	$4,700.00	$14,100.00
31	4' DIVERSION BOX TRASH RACK	1	EACH	$3,000.00	$3,000.00	$7,800.00	$7,800.00	$3,000.00	$3,000.00	$3,800.00	$3,800.00	$3,936.33	$3,936.33	$3,440.00	$3,440.00	$4,000.00	$4,000.00
32	CONCRETE FLATWORK 8" THICK	2,350	SQ FT	$20.00	$47,000.00	$11.00	$25,850.00	$13.00	$30,550.00	$16.75	$39,362.50	$13.68	$32,148.00	$15.00	$35,250.00	$24.00	$56,400.00
33	CONCRETE PIPE COLLAR	1	EACH	$2,500.00	$2,500.00	$1,600.00	$1,600.00	$2,700.00	$2,700.00	$3,325.00	$3,325.00	$1,253.73	$1,253.73	$2,910.00	$2,910.00	$2,400.00	$2,400.00
34	10' WIDE X 4' HIGH CONCRETE BOX CULVERT	32	FEET	$1,500.00	$48,000.00	$2,600.00	$83,200.00	$2,170.00	$69,440.00	$2,325.00	$74,400.00	$2,460.48	$78,735.36	$2,240.00	$71,680.00	$2,500.00	$80,000.00
35	12' WIDE X 4' HIGH CONCRETE BOX CULVERT	80	FEET	$1,800.00	$144,000.00	$2,400.00	$192,000.00	$1,940.00	$155,200.00	$2,075.00	$166,000.00	$2,397.38	$191,790.40	$2,120.00	$169,600.00	$2,000.00	$160,000.00
36	UNTREATED BASE COURSE (PLAN QUANTITY)	11,650	CU YD	$50.00	$582,500.00	$33.00	$384,450.00	$43.00	$500,950.00	$47.40	$552,210.00	$48.41	$563,976.50	$44.50	$518,425.00	$48.00	$559,200.00
37	HMA - 3/8" (LANE LEVEL)	600	TON	$120.00	$72,000.00	$173.00	$103,800.00	$155.00	$93,000.00	$141.50	$84,900.00	$148.00	$88,800.00	$165.00	$99,000.00	$158.00	$94,800.00
38	UDOT HMA - 1/2" NR	3,700	TON	$100.00	$370,000.00	$151.00	$558,700.00	$125.00	$462,500.00	$114.25	$422,725.00	$144.52	$534,724.00	$135.00	$499,500.00	$129.00	$477,300.00
39	HMA - 3/4" NR	5,700	TON	$100.00	$570,000.00	$120.00	$684,000.00	$115.00	$655,500.00	$107.50	$612,750.00	$122.98	$700,986.00	$125.00	$712,500.00	$120.00	$684,000.00
40	HMA - 1/2" TRAIL MIX	275	TON	$120.00	$33,000.00	$129.00	$35,475.00	$135.00	$37,125.00	$122.55	$33,701.25	$127.74	$35,128.50	$145.00	$39,875.00	$138.00	$37,950.00
41	WOVEN GEOTEXTILE (MIRIFI RS380i OR APPROVED EQUAL)	29,000	SQ YD	$6.00	$174,000.00	$4.00	$116,000.00	$3.65	$105,850.00	$3.62	$104,980.00	$6.04	$175,160.00	$5.40	$156,600.00	$3.75	$108,750.00
42	ASPHALT PAVEMENT SOFT SPOT REPAIR	2,500	SQ FT	$7.00	$17,500.00	$15.00	$37,500.00	$7.50	$18,750.00	$9.75	$24,375.00	$11.24	$28,100.00	$9.30	$23,250.00	$13.00	$32,500.00
43	RIGHT OF WAY FENCE	1,650	FEET	$10.00	$16,500.00	$8.00	$13,200.00	$7.60	$12,540.00	$8.26	$13,629.00	$9.44	$15,576.00	$8.10	$13,365.00	$8.00	$13,200.00
44	6 INCH DR 21 (DIPS) PRESSURIZED SEWER PIPE	2,680	FEET	$50.00	$134,000.00	$52.00	$139,360.00	$54.00	$144,720.00	$45.05	$120,734.00	$48.89	$131,025.20	$80.50	$162,140.00	$40.00	$107,200.00
45	8 INCH SDR 35 SEWER PIPE	20	FEET	$50.00	$1,000.00	$200.00	$4,000.00	$175.00	$3,500.00	$118.20	$2,364.00	$86.46	$1,729.20	$250.00	$5,000.00	$107.00	$2,140.00
46	10 INCH SDR 35 SEWER PIPE	2,060	FEET	$55.00	$113,300.00	$75.00	$154,500.00	$68.00	$140,080.00	$76.15	$156,869.00	$61.66	$127,019.60	$78.00	$160,680.00	$60.00	$123,600.00
47	48 INCH SEWER MANHOLE	6	EACH	$3,000.00	$18,000.00	$7,000.00	$42,000.00	$7,000.00	$42,000.00	$5,850.00	$35,100.00	$6,828.64	$40,971.84	$6,060.00	$36,480.00	$6,000.00	$36,000.00
48	60 INCH SEWER MANHOLE	1	EACH	$4,000.00	$4,000.00	$7,700.00	$7,700.00	$7,000.00	$7,000.00	$5,675.00	$5,675.00	$6,630.10	$6,630.10	$7,240.00	$7,240.00	$6,200.00	$6,200.00
49	18 INCH STEEL CASING, (1/2" THICK)	40	FEET	$200.00	$8,000.00	$350.00	$14,000.00	$615.00	$24,600.00	$801.20	$32,048.00	$286.79	$11,471.60	$200.00	$8,000.00	$230.00	$9,200.00
50	2 INCH WATER VENT PIPE	20	FEET	$25.00	$500.00	$800.00	$16,000.00	$88.00	$1,760.00	$42.65	$857.00	$31.91	$638.20	$39.00	$780.00	$49.00	$980.00
51	4-INCH GATE VALVE	1	EACH	$2,500.00	$2,500.00	$2,000.00	$2,000.00	$2,950.00	$2,950.00	$3,300.00	$3,300.00	$3,515.99	$3,515.99	$2,280.00	$2,280.00	$2,500.00	$2,500.00
52	4-INCH WATERLINE	80	FEET	$50.00	$4,000.00	$49.00	$3,920.00	$90.00	$7,200.00	$53.30	$4,264.00	$62.01	$4,960.80	$53.50	$4,280.00	$92.00	$7,360.00
53	ONE 2 INCH CONDUIT	1,275	FEET	$5.00	$6,375.00	$15.00	$19,125.00	$14.00	$17,850.00	$7.85	$10,008.75	$7.65	$9,753.75	$7.60	$9,690.00	$16.50	$21,037.50
54	2 INCH SCH 80 PVC WATERLINE	1,275	FEET	$5.00	$6,375.00	$15.00	$19,125.00	$12.00	$15,300.00	$18.50	$23,587.50	$42.58	$54,289.50	$28.00	$35,700.00	$20.00	$25,500.00
55	1D CONDUIT	1,275	FEET	$20.00	$25,500.00	$24.00	$30,600.00	$27.00	$34,425.00	$27.32	$34,833.00	$26.92	$34,323.00	$26.50	$33,787.50	$6.50	$8,287.50
56	PAVEMENT MARKING PAINT	205	GAL	$75.00	$15,375.00	$77.00	$15,785.00	$41.00	$8,405.00	$68.35	$14,011.75	$80.93	$16,590.65	$67.00	$13,735.00	$65.00	$13,325.00
57	PAVEMENT MESSAGE	12	EACH	$100.00	$1,200.00	$164.00	$1,968.00	$50.00	$600.00	$83.20	$998.40	$94.51	$1,134.12	$81.50	$978.00	$80.00	$960.00
58	BICYCLE SYMBOL	20	EACH	$500.00	$10,000.00	$164.00	$3,280.00	$50.00	$1,000.00	$83.20	$1,664.00	$94.51	$1,890.20	$81.50	$1,630.00	$80.00	$1,600.00
59	HECP TYPE 1 (PLAN QUANTITY)	4	ACRE	$2,000.00	$8,000.00	$5,500.00	$22,000.00	$3,700.00	$14,800.00	$2,625.00	$10,500.00	$6,075.70	$24,302.80	$5,230.00	$20,920.00	$2,500.00	$10,000.00
60	HECP TYPE 2 (PLAN QUANTITY)	1	ACRE	$3,500.00	$3,500.00	$6,500.00	$6,500.00	$5,400.00	$5,400.00	$5,250.00	$5,250.00	$7,425.86	$7,425.86	$6,400.00	$6,400.00	$5,000.00	$5,000.00
61	STRIP, STOCKPILE, AND SPREAD TOPSOIL (PLAN QUANTITY)	24,433	SQ YD	$2.00	$48,866.00	$0.40	$9,773.20	$1.00	$24,433.00	$1.58	$38,604.14	$0.83	$20,279.39	$0.60	$14,659.80	$1.00	$24,433.00
62	DRILL SEED (PLAN QUANTITY)	4	ACRE	$1,500.00	$6,000.00	$2,500.00	$10,000.00	$1,850.00	$7,400.00	$1,975.00	$7,900.00	$3,164.43	$12,657.72	$2,910.00	$11,640.00	$1,900.00	$7,600.00
63	BROADCAST SEED (PLAN QUANTITY)	1	ACRE	$1,200.00	$1,200.00	$2,100.00	$2,100.00	$1,850.00	$1,850.00	$2,450.00	$2,450.00	$2,278.39	$2,278.39	$2,090.00	$2,090.00	$2,300.00	$2,300.00
	TOTAL BASE BID				$3,441,741.00		$3,379,121.20		$3,396,965.00		$3,401,028.29		$3,653,995.87		$3,736,627.80		$3,816,363.00
	ADDITIVE ALTERNATE #1																
Item #	Item	Quantity	Units	Unit Price	Price	Unit Price	Price	Unit Price	Price	Unit Price	Price	Unit Price	Price	Unit Price	Price	Unit Price	Price
1	PRECAST CONCRETE BLOCK WALL	3,300	SQ FT	$50.00	$165,000.00	$40.00	$132,000.00	$47.00	$155,100.00	$77.80	$256,740.00	$58.67	$193,611.00	$52.50	$173,250.00	$48.00	$158,400.00
2	ACID STAIN & SEAL	3,300	SQ FT	$1.00	$3,300.00	$0.60	$1,980.00	$0.35	$1,155.00	$2.05	$6,765.00	$1.17	$3,861.00	$0.70	$2,310.00	$0.60	$1,980.00
	TOTAL ADDITIVE ALTERNATE #1				$168,300.00		$133,980.00		$156,255.00		$263,505.00		$197,472.00		$175,560.00		$160,380.00
	ADDITIVE ALTERNATE #2																
Item #	Item	Quantity	Units	Unit Price	Price	Unit Price	Price	Unit Price	Price	Unit Price	Price	Unit Price	Price	Unit Price	Price	Unit Price	Price
1	CONCRETE RETAINING WALL	3,300	SQ FT	$65.00	$214,500.00	$56.00	$184,800.00	$56.00	$184,800.00	$56.30	$185,790.00	$64.02	$211,266.00	$49.50	$163,350.00	$65.00	$214,500.00
2	ACID STAIN & SEAL	3,300	SQ FT	$1.00	$3,300.00	$0.60	$1,980.00	$0.60	$1,980.00	$0.70	$2,310.00	$1.17	$3,861.00	$0.70	$2,310.00	$0.60	$1,980.00
	TOTAL ADDITIVE ALTERNATE #2				$217,800.00		$186,780.00		$186,780.00		$188,100.00		$215,127.00		$165,660.00		$216,480.00

Note: Yellow highlight denotes error in bidder's calculation. Does not affect apparent low bid.

Prepared by Mainline Engineering
10/9/2024