



HURRICANE CITY UTAH

Mayor

City Manager

Nanette Billings Kaden DeMille

City Council

*David Hirschi
Kevin Thomas
Clark Fawcett
Drew Ellerman
Joseph Prete*

Hurricane City Council Special Meeting Agenda

August 22, 2024

3:00 PM

City Council Chambers 147 N 870 W, Hurricane

Notice is hereby given that the City Council will hold a Special Meeting in the City Council Chambers 147 N 870 W, Hurricane, UT. Meeting Link on Webex Meeting number: 2630 456 5376 Meeting password: HCcouncil Join from a video or application Dial 26304565376@cityofhurricane.webex.com. You can also dial 173.243.2.68 and enter your meeting number. Join by phone +1-415-655-0001 US Toll Access code:26304565376.

3:00 p.m. - Call to Order

Prayer

Pledge of Allegiance

Minutes of the Special City Council Meeting for August 15, 2024

OLD BUSINESS

1. Consideration and possible approval of a **water savings agreement** for the irrigation expansion project.
2. Consideration and possible approval of a **bid to construct phase 1 of the City's irrigation expansion project** - Ken Richins
3. Consideration and possible approval of a **bid to construct the irrigation pond, filters, and booster station** for the irrigation expansion project - Ken Richins

Adjournment

I hereby certify that the above notice was posted to the city website, (www.cityofhurricane.com) posted to the state public notice website, and at the following locations:

1. City office – 147 North 870 West, Hurricane, UT
2. The Post Office – 1075 West 100 North, Hurricane, UT
3. The library – 36 South 300 West, Hurricane, UT

_____ for the City Recorder

Minutes of the Hurricane City Council special meeting held on August 15, 2024, in the Council Chambers at 147 North 870 West, Hurricane, Utah at 4:30 p.m.

Members Present: Mayor Nanette Billings and **Council Members:** David Hirschi, Kevin Thomas, Clark Fawcett, Drew Ellerman, and Joseph Prete.

Also Present: City Manager Kaden DeMille, City Attorney Dayton Hall, Public Works Director Mike Vercimak, City Planner Gary Cupp, Planning Assistant Fred Resch III, Finance Manager Paige Chapman, Water Superintendent Ken Richins, and City Recorder Cindy Beteag.

AGENDA

6:00 p.m. - Call to Order –

1. Public Meeting related to water bond project: City to describe project needs and costs, and to receive any public comments on water rate impacts related to the bonds, and related matters.

Mayor Billings welcomed everyone to the meeting and explained the purpose. She mentioned that a previous public meeting had gone well and was well received by the community, particularly by Canal Company shareholders. Despite initial frustrations, people generally understood the project better after discussions. The current meeting is focused on discussing the bond for the water project. Dayton Hall explained that the separate meeting was necessary because state funding required it. This meeting is being held to discuss project needs and costs, collect public comments, and meet state bonding requirements. Minutes from the meeting would be approved and sent to the state to confirm compliance. He then asked Mr. Richins to provide details on the project's expenses and reasons for the funding, as part of the official record.

Ken Richins explained that the bond would fund two wells (one at Sky Ranch and one at Gould's Wash), a culinary water tank west of Sky Ranch, and cover 25% of the cost of the NRCS grant. This grant would help expand the pressurized irrigation system from the wash to 1500 South. He emphasized that the project was necessary due to the dry area and would significantly improve water quality and availability, enhancing the quality of life for residents in the Valley. He explained that notifying people about the project was a loan requirement, so they sent out 8,527 letters with an overview of the project. They received 76 responses: 57 were against and 19 were in favor. Some responses included concerns about growth and fixed incomes. He noted that impact fees couldn't be used as collateral for the loan, which might lead to higher water rates. Mr. Richins wanted to personally address concerns and clarify the project's benefits, believing it would greatly improve the area's quality of life.

Joseph Prete inquired whether most of the responses were negative. Mr. Richins confirmed that they were, but a very small percentage was returned. He mentioned that he had attempted to follow up with those who identified themselves and believed that they felt more

reassured after the discussion. Mayor Billings agreed, noting that everyone she had explained it to supported it after hearing the details. Mr. Prete then asked if there were legitimate complaints or if the responses were mostly knee-jerk reactions. Mr. Richins responded that it's difficult to fully convey the situation in a one-page letter and expressed a desire to provide further explanations to the public.

Kaden DeMille asked if everyone had a chance to review the email Clark Fawcett sent. He stated Mr. Fawcett did a great job summarizing their current position. Mr. DeMille stated that he and Paige Chapman had been discussing the matter just before the meeting and they were struggling to refine the numbers enough to present them to the Council. He explained that they currently see four possible options: either the City will need to cover all the costs, the NRCS and the Board of Water Resources will cover everything, the Board of Water Resources will pay part while the NRCS does not, or the NRCS will cover some of the costs while the Board of Water Resources does not. He continued, stating that refining the numbers for a payment plan has been more challenging than expected, especially with funding deadlines approaching. While construction funds can carry over, engineering funds are running out. He stated that although engineer Brent Gardner provided options, there are still many uncertainties—particularly if the Board of Water Resources or NRCS fails to cover the extra amount, which could result in a significant shortfall. He noted that while they can cover some costs through state water savings and rate adjustments, it's difficult to provide an exact figure. Mr. DeMille expressed concern that they might not secure commitments in time, given the looming August 26th deadline for phase one.

Mayor Billings expressed concern about the uncertainty in bidding, noting that prices can fluctuate when bids are rejected, as companies may adjust their offers either up or down. She stated the agreement is pending so more time may be needed before making a final decision. Dayton Hall explained that during a meeting with representatives from NRCS, US Fish and Wildlife Service, Nature Conservancy, and the Water District, NRCS made it clear they will not release funding until an agreement addressing water savings, and the Virgin River component is signed by all parties. Although there was general consensus on the terms, final approval is still needed. He recommended not awarding bids yet, as doing so would commit the City financially without securing NRCS's funding. He emphasized that the letter will not resolve all the issues, as the funding only covers a portion of the project, leaving about a \$10 million shortfall. Kaden DeMille expressed that while he's not too concerned about the third phase bid potentially coming in higher, as it should be close to current estimates even with minor fluctuations, the main issue is the lack of firm commitments from the NRCS and the Board of Water Resources. He highlighted that there's a \$10 million shortfall from NRCS and another \$8 million shortfall from the Board of Water Resources based on the current documentation. He mentioned that the spreadsheet provided by Mr. Gardner extended the timeline from twenty-five to thirty years, which could potentially impact the terms offered. Mayor Billings requested information on the risk factors if the bids are awarded, specifically asking what would need to be paid back if the project didn't move forward and the repercussions of not awarding the bids. Clark Fawcett clarified by asking what happens if the

83 bids are awarded but the project is later canceled. Dayton Hall explained that it would
84 constitute a breach of contract, making the City liable for the contractor's costs and loss of time
85 at a minimum. Mr. Richins clarified that no decision will be made tonight and urged the Council
86 to review Mr. Fawcett's email if they hadn't already, as it provides the best summary of all the
87 concerns. Mayor Billings requested that this summary be included in the meeting packet. Mr.
88 Fawcett requested clarification on the water savings contract. Mr. Hall explained that the City
89 had previously approved an agreement to demonstrate its readiness and willingness to commit
90 193 acre-feet to the project. Now, the other parties are essentially asking to amend the draft
91 contract to confirm that the Canal Company and the City will not allocate that water outside of
92 the historical service area of the Hurricane Canal Company. This condition needs to be added to
93 the existing contract.

94 Mayor Billings stated the Council will need to schedule another meeting before the 26th. Mr.
95 Hall noted that Mr. Richins has all of the 70+ responses from the water users, and they are
96 available for the Council to review if they wish to do so.
97

98 **Adjournment:** David Hirschi motioned to adjourn at 5:02 p.m. Seconded by Joseph Prete.
99 Motion carried unanimously.



STAFF COMMENTS

Consideration and possible approval of a **water savings agreement** for the irrigation expansion project.

Discussion:

Findings:

Recommendation:

Attachments:

None



STAFF COMMENTS

Consideration and possible approval of a **bid to construct phase 1 of the City's irrigation expansion project** - Ken Richins

Discussion:

On June 27th, 2024, the Water Department held a bid opening for the phase 1 irrigation project. Five qualified contractors placed bids. The winning bid was Interstate Rock Products for \$7,859,191.00.

Bowen and Collins Engineering the engineers over this project recommend to the City Council to award the project to Interstate Rock.

The Water Board discussed this on July 30, 2024, and there was a consensus that the bid be awarded to the low bidder Interstate Rock. -Ken Richins

Findings:

Recommendation:

Attachments:

1. Clark Fawcett email regarding irrigation expansion
2. Bid Recommendation Hurricane Irrigation Phase 1

Cindy Beteag

From: Clark Fawcett
Sent: Wednesday, August 14, 2024 5:21 PM
To: Council
Subject: Pressurized Irrigation

+1 other

Wed 8/14/2024 5:11 PM

I have been to several meetings with Alpha Engineering and the Water department discussing pressurized irrigation expansion. I know this is coming up on tomorrow night's agenda to approve the 1st two contracts. Because I have seen all the numbers I wanted to send a note to each of you listing the challenges we still face. This is not meant to try and convince you not to vote for the project, it is simply to identify the challenges so when you cast your vote you will understand what you are voting on and the possible ramifications.

1. The project has risen significantly in cost since the funding was acquired with NRCS. The NRCS has \$11,380,985 in the bank committed and approved for this project. The project has increased to where the needed funds from NRCS is \$21,425,603. The NRCS representative has indicated that he will go back and apply for the additional amount in the next round of funding but he can't guarantee any additional though he believes he can get more.
2. The Board of Water Resources has committed \$12,655,000. If the NRCS does not come up with the additional funds Brent thinks he can go back and secure more from them. Again a possible option but no guarantee.
3. The first two phases of the project have been bid so we know the actual cost, but the third phase has not. The last bid was higher than the engineer's estimate. Without this number we are not sure if the cost will go even higher and there will be more money needed.
4. Even with full funding from the NRCS and Board of Water Resources, the City portion of the project will be \$3,456,331. This amount can be financed through another Revenue bond or some can come from Impact fees funds for the Sky Ranch Well and Tank. This is a question that Paige and Kaden are working on.
5. There is \$1,250,000 in the budget for purchase of Water shares. This is enough to cover the 700 homes currently built but additional water will be needed in the future. The existing homes will not pay an impact fee but the new ones will. This impact fee should cover a portion of the cost of the improvements and the cost of additional water. Going forward the City should be able to purchase additional shares as needed from these impact fee funds. The Gould's wash well did not hit culinary water. It is proposed that this well be hooked into the pressurized system. There is enough water to cover the 700 homes from this source without the need to purchase shares. The dilemma is that if shareholders want to sell their share once the system goes in, the city needs to be ready to purchase them whether they are needed or not so they aren't sold outside the system or to the Water Conservancy District. This money may have to come from the water

fund as well since there is no money in the pressurized budget and the purchase of water can't be paid for by NCRS or the Board of Water Resources.

6. The budget for this project has money included to replace the asphalt that is removed in laying the pipe. Many of these streets are only chip seal and it crumbles when cut and many roads are in bad shape. If more repair is needed other than the patching to cover the trench I am worried that the city may have a liability for road improvements.
7. Even though I have received answers to many of my questions, and Ken has done a great job in working with the current residents to make it feasible, my inclination right now is to postpone the vote until we are secure on the additional funding. I am told however, that the funding will be lost if we don't approve the contracts by the end of August.
8. There is a significant reduction in the cost of water purchase from the Conservancy District. Last year the city paid \$886,288.18. While this entire amount will not go away, around \$700,000 will as we use the additional water we save. This is more than enough to pay for the bond payment and still have savings.
9. The Water Conservancy District raises the water rate \$.13 per year. Because we purchase water for Dixie Springs we pass this along to our users. In order to not make a two different rate system, the increase goes on all the users. This builds in an increase each year and we will keep more of it when we don't buy as much water from them. This will help to pay for any possible short falls in the future.
10. We had a good meeting with around 150-200 people on August 7. I was pleasantly amazed. I have been to a lot of public hearings on various projects over the years. This is the first one I can remember where not one person stood and spoke against it. We had many good questions about how it will work, the cost, improvements, timing etc., but no negative. I personally was thanked by several people for continuing to work on this project. I am sure there are people who don't want it but it sure seems the citizens are looking forward to this project.

This is a big leap of faith with many unknowns. With the funding we have received I don't believe there will be another time we could get this funding so it seems now or never. I just want you to be aware of the unknowns before you cast a vote.

Clark Fawcett

June 28, 2024

Ken Richins
Superintendent
Hurricane City
147 North 870 West
Hurricane, UT 84737

Subject: Recommendation of Award of Contract to Interstate Rock Products for the Hurricane Irrigation Efficiency – Phase 1 Project

Dear Ken:

Bids for Phase 1 construction of the Hurricane Irrigation Efficiency Project were received by Hurricane City (City) on Thursday, June 27, 2024. Bowen Collins & Associates (BC&A) completed a review of the bids that were received from five general contractors. Interstate Rock Products, Inc. was the apparent low bidder with a Base Bid price of \$7,859,191. Interstate Rock has signed and submitted the appropriate bid forms, provided a 5% Bid Bond, acknowledged all contract addenda, and provided a schedule that meets the requirements specified in the contract documents.

A summary of the bids received for the project is provided below for reference and a detailed breakdown of the bids is attached for information.

Rank	Contractor	Base Bid Price	Difference from Low Bid
1	Interstate Rock	\$7,859,191.00	-
2	JP Excavation	\$8,992,510.00	\$1,133,319.00 (14%)
3	M&T Enterprises	\$9,313,434.41	\$1,454,243.41 (19%)
4	Feller Enterprises	\$9,391,071.61	\$1,531,880.61 (19%)
5	Landmark Excavating	\$10,600,795.00	\$2,741,604.00 (35%)

The bid document specifies that *“All bids shall be checked for mathematical errors by the Engineer. If errors have been made in the extension of the figures, it will be assumed that the unit prices are correct and the total amounts will be revised to reflect the corrections.”* Consequently, required adjustments to Interstate Rock Product’s overall bid price were made for a few discrepancies between the unit price and total bid price. These adjustments resulted in a small increase in the listed bid price of approximately \$3,000.

We have also reviewed the proposal documentation, including the schedule and Statement of Qualifications from Interstate Rock Products and found them responsive. A copy of the preliminary schedules submitted by the five bidders is attached for reference. We recommend that coordination take place with Interstate Rock Products and an agreement should be executed pending receipt of appropriate bonds and insurance documents following Notice of Award.

Please call with any questions or concerns regarding this recommendation. BC&A looks forward to working with the City through the successful completion of this important project.

Sincerely,

June 28, 2024
Page 2

Bowen, Collins & Associates

A handwritten signature in black ink, appearing to read "Todd Olsen". The signature is stylized with a large, bold "T" and "O".

Todd Olsen, P.E.
Project Manager

Cc. Lance Smith – NRCS

Attachment

BID SCHEDULE SUMMARY
Hurricane Irrigation Efficiency Project - Phase 1
Hurricane City / NRCS
Bids Were Opened On: Thursday, June 27, 2024

Corrected Bid Total to Match Unit Prices



BASE BID				Engineer's Option		M&T Enterprises		Landmark Excavating		Feller Enterprises		Interstate Rock		JP Excavating		Unit Price Summary		
Item No.	Description	Quantity	Unit	Unit Price	Amount	Unit Price	Amount	Unit Price	Amount	Unit Price	Amount	Unit Price	Amount	Unit Price	Amount	Average	Low	High
1	Mobilization	1	Lump Sum	\$444,210	\$444,210	\$427,127.00	\$427,127.00	\$630,000.00	\$630,000.00	\$395,000.00	\$395,000.00	\$460,000.00	\$460,000.00	\$500,000.00	\$500,000.00	\$482,425.40	\$395,000.00	\$630,000.00
1A	Survey Control and Staking	1	Lump Sum	\$50,000	\$50,000	\$83,912.11	\$83,912.11	\$100,000.00	\$100,000.00	\$60,000.00	\$60,000.00	\$105,000.00	\$105,000.00	\$60,000.00	\$60,000.00	\$81,782.42	\$60,000.00	\$105,000.00
2	Traffic Control	1	Lump Sum	\$87,470	\$87,470	\$64,362.00	\$64,362.00	\$533,000.00	\$533,000.00	\$187,000.00	\$187,000.00	\$251,906.00	\$251,906.00	\$50,000.00	\$50,000.00	\$217,253.60	\$50,000.00	\$533,000.00
3.1	Furnish and Install 4" PVC DR 25 C-900 Pipe Purple	370	Linear Feet	\$60	\$22,200	\$88.50	\$32,745.00	\$95.00	\$35,150.00	\$80.15	\$29,655.50	\$46.00	\$17,020.00	\$75.00	\$27,750.00	\$76.93	\$46.00	\$95.00
3.2	Furnish and Install 6" PVC DR 25 C-900 Pipe Purple	26,340	Linear Feet	\$66	\$1,738,440	\$90.45	\$2,382,453.00	\$61.50	\$1,619,910.00	\$81.79	\$2,154,348.60	\$56.50	\$1,488,210.00	\$79.00	\$2,080,860.00	\$73.85	\$56.50	\$90.45
3.3	Furnish and Install 8" PVC DR 25 C-900 Pipe Purple	11,510	Linear Feet	\$72	\$828,720	\$97.10	\$1,117,621.00	\$68.50	\$788,435.00	\$88.79	\$1,021,972.90	\$63.50	\$730,885.00	\$80.00	\$920,800.00	\$79.58	\$63.50	\$97.10
3.4	Furnish and Install 10" PVC DR 25 C-900 Pipe Purple	870	Linear Feet	\$79	\$68,730	\$108.50	\$94,395.00	\$85.00	\$73,950.00	\$101.79	\$88,557.30	\$74.50	\$64,815.00	\$112.00	\$97,440.00	\$96.36	\$74.50	\$112.00
3.5	Furnish and Install 12" PVC DR 25 C-900 Pipe Purple	3,290	Linear Feet	\$88	\$289,520	\$117.50	\$386,575.00	\$93.00	\$305,970.00	\$112.23	\$369,236.70	\$85.00	\$279,650.00	\$109.00	\$358,610.00	\$103.35	\$85.00	\$117.50
3.6	Furnish and Install 14" PVC DR 25 C-900 Pipe Purple	1,360	Linear Feet	\$100	\$136,000	\$122.90	\$167,144.00	\$99.00	\$134,640.00	\$117.18	\$159,364.80	\$89.00	\$121,040.00	\$120.00	\$163,200.00	\$109.62	\$89.00	\$122.90
3.7	Furnish and Install 16" PVC DR 25 C-900 Pipe Purple	2,620	Linear Feet	\$110	\$288,200	\$135.20	\$354,224.00	\$112.00	\$293,440.00	\$131.80	\$345,316.00	\$100.00	\$262,000.00	\$132.00	\$345,840.00	\$122.20	\$100.00	\$135.20
4.1	Furnish and Install 6" Ductile Iron Drain Pipe	70	Linear Feet	\$70	\$4,900	\$144.40	\$10,108.00	\$155.00	\$10,850.00	\$289.47	\$20,262.90	\$160.00	\$11,200.00	\$82.00	\$5,740.00	\$166.17	\$82.00	\$289.47
4.2	Furnish and Install 8" Ductile Iron Pipe	130	Linear Feet	\$130	\$16,900	\$123.00	\$15,990.00	\$170.00	\$22,100.00	\$307.54	\$39,980.20	\$140.00	\$18,200.00	\$103.00	\$13,390.00	\$168.71	\$103.00	\$307.54
4.3	Furnish and Install 10" Ductile Iron Pipe	80	Linear Feet	\$80	\$6,400	\$131.80	\$10,544.00	\$180.00	\$14,400.00	\$333.10	\$26,648.00	\$140.00	\$11,200.00	\$115.00	\$9,200.00	\$179.98	\$115.00	\$333.10
5.1	Furnish and Install 4" Gate Valve (WD 316), Complete	12	Each	\$2,500	\$30,000	\$1,930.00	\$23,160.00	\$3,200.00	\$38,400.00	\$3,211.32	\$38,535.84	\$1,350.00	\$16,200.00	\$1,400.00	\$16,800.00	\$2,218.26	\$1,350.00	\$3,211.32
5.2	Furnish and Install 6" Gate Valve (WD 316), Complete	57	Each	\$3,000	\$171,000	\$2,397.50	\$136,657.50	\$3,900.00	\$222,300.00	\$3,637.08	\$207,313.56	\$2,950.00	\$168,150.00	\$2,500.00	\$142,500.00	\$3,076.92	\$2,397.50	\$3,900.00
5.3	Furnish and Install 8" Gate Valve (WD 316), Complete	26	Each	\$3,300	\$85,800	\$3,585.00	\$93,210.00	\$5,100.00	\$132,600.00	\$4,932.43	\$128,243.18	\$4,350.00	\$113,100.00	\$3,500.00	\$91,000.00	\$4,293.49	\$3,500.00	\$5,100.00
5.4	Furnish and Install 10" Gate Valve (WD 316), Complete	6	Each	\$4,800	\$28,800	\$5,484.50	\$32,907.00	\$7,750.00	\$46,500.00	\$7,348.51	\$44,091.06	\$5,850.00	\$35,100.00	\$4,100.00	\$24,600.00	\$6,106.60	\$4,100.00	\$7,750.00
5.5	Furnish and Install 12" Butterfly Valve (WD 316), Complete	2	Each	\$5,110	\$10,220	\$6,050.00	\$12,100.00	\$12,225.00	\$24,450.00	\$12,181.48	\$24,362.96	\$11,000.00	\$22,000.00	\$4,500.00	\$9,000.00	\$9,191.30	\$4,500.00	\$12,225.00
5.6	Furnish and Install 14" Butterfly Valve (WD 316), Complete	3	Each	\$7,670	\$23,010	\$8,683.00	\$26,049.00	\$11,300.00	\$33,900.00	\$11,110.63	\$33,331.89	\$13,800.00	\$41,400.00	\$6,000.00	\$18,000.00	\$10,178.73	\$6,000.00	\$13,800.00
5.7	Furnish and Install 16" Butterfly Valve (WD 316), Complete	2	Each	\$10,230	\$20,460	\$12,827.00	\$25,654.00	\$20,600.00	\$41,200.00	\$21,928.79	\$43,857.58	\$7,300.00	\$14,600.00	\$9,400.00	\$18,800.00	\$14,411.16	\$7,300.00	\$21,928.79
6.1	Furnish and Install 6" 90 Degree Bends	21	Each	\$560	\$11,760	\$773.50	\$16,243.50	\$1,100.00	\$23,100.00	\$724.84	\$15,221.64	\$680.00	\$14,280.00	\$950.00	\$19,950.00	\$845.67	\$680.00	\$1,100.00
6.2	Furnish and Install 6" 45 Degree Bends	6	Each	\$450	\$2,700	\$762.20	\$4,573.20	\$1,050.00	\$6,300.00	\$689.04	\$4,134.24	\$670.00	\$4,020.00	\$950.00	\$5,700.00	\$824.25	\$670.00	\$1,050.00
6.3	Furnish and Install 6" 22.5 Degree Bends	10	Each	\$410	\$4,100	\$751.10	\$7,511.00	\$1,030.00	\$10,300.00	\$674.51	\$6,745.10	\$660.00	\$6,600.00	\$950.00	\$9,500.00	\$813.12	\$660.00	\$1,030.00
6.4	Furnish and Install 6" 11.25 Degree Bends	19	Each	\$430	\$8,170	\$756.60	\$14,375.40	\$1,035.00	\$19,665.00	\$681.78	\$12,953.82	\$670.00	\$12,730.00	\$950.00	\$18,050.00	\$818.68	\$670.00	\$1,035.00
6.5	Furnish and Install 8" 90 Degree Bends	3	Each	\$830	\$2,490	\$923.30	\$2,769.90	\$1,215.00	\$3,645.00	\$887.03	\$2,661.09	\$920.00	\$2,760.00	\$1,100.00	\$3,300.00	\$1,009.07	\$887.03	\$1,215.00
6.6	Furnish and Install 8" 45 Degree Bends	2	Each	\$830	\$1,660	\$882.50	\$1,765.00	\$1,170.00	\$2,340.00	\$835.27	\$1,670.54	\$880.00	\$1,760.00	\$1,100.00	\$2,200.00	\$973.55	\$835.27	\$1,170.00
6.7	Furnish and Install 8" 22.5 Degree Bends	3	Each	\$830	\$2,490	\$878.30	\$2,634.90	\$1,165.00	\$3,495.00	\$829.82	\$2,489.46	\$880.00	\$2,640.00	\$1,100.00	\$3,300.00	\$970.62	\$829.82	\$1,165.00
6.8	Furnish and Install 8" 11.25 Degree Bends	3	Each	\$830	\$2,490	\$862.40	\$2,587.20	\$1,150.00	\$3,450.00	\$808.94	\$2,426.82	\$860.00	\$2,580.00	\$1,100.00	\$3,300.00	\$956.27	\$808.94	\$1,150.00
6.9	Furnish and Install10" 90 Degree Bends	1	Each	\$1,120	\$1,120	\$1,066.00	\$1,066.00	\$1,540.00	\$1,540.00	\$1,263.02	\$1,263.02	\$1,050.00	\$1,050.00	\$1,200.00	\$1,200.00	\$1,223.80	\$1,050.00	\$1,540.00
6.10	Furnish and Install10" 45 Degree Bends	1	Each	\$830	\$830	\$1,085.50	\$1,085.50	\$1,440.00	\$1,440.00	\$1,148.62	\$1,148.62	\$1,050.00	\$1,050.00	\$1,200.00	\$1,200.00	\$1,184.82	\$1,050.00	\$1,440.00
6.11	Furnish and Install10" 22.5 Degree Bends	2	Each	\$830	\$1,660	\$1,085.00	\$2,170.00	\$1,440.00	\$2,880.00	\$1,147.71	\$2,295.42	\$1,050.00	\$2,100.00	\$1,200.00	\$2,400.00	\$1,184.54	\$1,050.00	\$1,440.00
6.12	Furnish and Install 14" 11.25 Degree Bends	2	Each	\$2,290	\$4,580	\$1,780.00	\$3,560.00	\$2,685.00	\$5,370.00	\$2,043.31	\$4,086.62	\$1,750.00	\$3,500.00	\$1,700.00	\$3,400.00	\$1,991.66	\$1,700.00	\$2,685.00
6.13	Furnish and Install 16" 45 Degree Bends	2	Each	\$2,680	\$5,360	\$2,029.50	\$4,059.00	\$3,000.00	\$6,000.00	\$2,366.82	\$4,733.64	\$1,950.00	\$3,900.00	\$1,800.00	\$3,600.00	\$2,229.26	\$1,800.00	\$3,000.00
6.14	Furnish and Install 6" Tee	14	Each	\$800	\$11,200	\$872.10	\$12,209.40	\$1,175.00	\$16,450.00	\$839.87	\$11,758.18	\$870.00	\$12,180.00	\$1,200.00	\$16,800.00	\$991.39	\$839.87	\$1,200.00
6.14A	Furnish and Install 6"x4" Tee	2	Each	\$770	\$1,540	\$821.10	\$1,642.20	\$1,200.00	\$2,400.00	\$875.83	\$1,751.66	\$910.00	\$1,820.00	\$1,200.00	\$2,400.00	\$1,001.39	\$821.10	\$1,200.00
6.15	Furnish and Install 8" Tee	4	Each	\$2,770	\$11,080	\$1,194.50	\$4,778.00	\$1,450.00	\$5,800.00	\$1,151.10	\$4,604.40	\$1,100.00	\$4,400.00	\$1,300.00	\$5,200.00	\$1,239.12	\$1,100.00	\$1,450.00
6.16	Furnish and Install 8" x 4" Tee	4	Each	\$860	\$3,440	\$1,028.50	\$4,114.00	\$1,350.00	\$5,400.00	\$1,042.54	\$4,170.16	\$1,550.00	\$6,200.00	\$1,300.00	\$5,200.00	\$1,254.21	\$1,028.50	\$1,550.00
6.17	Furnish and Install 8" x 6" Tee	3	Each	\$960	\$2,880	\$1,108.00	\$3,324.00	\$1,400.00	\$4,200.00	\$1,037.61	\$3,112.83	\$1,000.00	\$3,000.00	\$1,300.00	\$3,900.00	\$1,169.12	\$1,000.00	\$1,400.00
6.17A	Furnish and Install 10"x4" Tee	1	Each	\$1,280	\$1,280	\$1,070.50	\$1,070.50	\$1,650.00	\$1,650.00	\$1,362.64	\$1,362.64	\$1,250.00	\$1,250.00	\$1,400.00	\$1,400.00	\$1,346.63	\$1,070.50	\$1,650.00
6.18	Furnish and Install 10" x 6" Tee	3	Each	\$1,200	\$3,600	\$1,434.50	\$4,303.50	\$1,850.00	\$5,550.00	\$1,600.57	\$4,801.71	\$1,250.00	\$3,750.00	\$1,500.00	\$4,500.00	\$1,527.01	\$1,250.00	\$1,850.00
6.19	Furnish and Install 10" x 8" Tee	1	Each	\$2,130	\$2,130	\$1,472.50	\$1,472.50	\$1,665.00	\$1,665.00	\$1,406.24	\$1,406.24	\$1,250.00	\$1,250.00	\$1,600.00	\$1,600.00	\$1,478.75	\$1,250.00	\$1,665.00
6.20	Furnish and Install 12" x 6" Tee	1	Each	\$2,150	\$2,150	\$1,759.00	\$1,759.00	\$2,500.00	\$2,500.00	\$1,768.50	\$1,768.50	\$1,500.00	\$1,500.00	\$1,600.00	\$1,600.00	\$1,825.50	\$1,500.00	\$2,500.00
6.20A	Furnish and install 12" x 4" Tee	3	Each	\$1,510	\$4,530	\$2,933.00	\$8,799.00	\$2,200.00	\$6,600.00	\$1,492.49	\$4,477.47	\$1,350.00	\$4,050.00	\$1,500.00	\$4,500.00	\$1,895.10	\$1,350.00	\$2,933.00
6.21	Furnish and Install 16" x 6" Tee	1	Each	\$3,030	\$3,030	\$2,877.00	\$2,877.00	\$3,500.00	\$3,500.00	\$2,949.74	\$2,949.74	\$2,350.00	\$2,350.00	\$3,000.00	\$3,000.00	\$2,935.35	\$2,350.00	\$3,500.00
6.21A	Furnish and Install 16" x 4" Tee	1	Each	\$2,410	\$2,410	\$4,572.50	\$4,572.50	\$3,650.00	\$3,650.00	\$3,132.03	\$3,132.03	\$4,750.00	\$4,750.00	\$3,000.00	\$3,000.00	\$3,820.91	\$3,000.00	\$4,750.00

Corrected Bid Total to Match Unit Prices



BASE BID				Engineer's Option		M&T Enterprises		Landmark Excavating		Feller Enterprises		Interstate Rock		JP Excavating		Unit Price Summary		
Item No.	Description	Quantity	Unit	Unit Price	Amount	Unit Price	Amount	Unit Price	Amount	Unit Price	Amount	Unit Price	Amount	Unit Price	Amount	Average	Low	High
6.22	Furnish and Install 6" Cross	2	Each	\$1,160	\$2,320	\$1,392.00	\$2,784.00	\$1,300.00	\$2,600.00	\$319.42	\$638.84	\$970.00	\$1,940.00	\$1,000.00	\$2,000.00	\$996.28	\$319.42	\$1,392.00
6.23	Furnish and Install 8" x 6" Cross	1	Each	\$2,390	\$2,390	\$1,641.00	\$1,641.00	\$1,600.00	\$1,600.00	\$1,327.24	\$1,327.24	\$1,200.00	\$1,200.00	\$1,600.00	\$1,600.00	\$1,473.65	\$1,200.00	\$1,641.00
6.24	Furnish and Install 14" x 8" Cross	1	Each	\$3,120	\$3,120	\$2,953.50	\$2,953.50	\$3,500.00	\$3,500.00	\$2,907.06	\$2,907.06	\$2,350.00	\$2,350.00	\$3,600.00	\$3,600.00	\$3,062.11	\$2,350.00	\$3,600.00
6.25	Furnish and Install 8" x 6" Reducer	3	Each	\$460	\$1,380	\$829.80	\$2,489.40	\$1,100.00	\$3,300.00	\$730.39	\$2,191.17	\$830.00	\$2,490.00	\$1,000.00	\$3,000.00	\$898.04	\$730.39	\$1,100.00
6.26	Furnish and Install 10" x 8" Reducer	2	Each	\$600	\$1,200	\$1,106.00	\$2,212.00	\$1,300.00	\$2,600.00	\$974.56	\$1,949.12	\$1,100.00	\$2,200.00	\$1,100.00	\$2,200.00	\$1,116.11	\$974.56	\$1,300.00
6.27	Furnish and Install 12" x 10" Reducer	1	Each	\$710	\$710	\$1,083.00	\$1,083.00	\$2,000.00	\$2,000.00	\$1,144.53	\$1,144.53	\$1,050.00	\$1,050.00	\$1,600.00	\$1,600.00	\$1,375.51	\$1,050.00	\$2,000.00
6.28	Furnish and Install 14" x 12" Reducer	1	Each	\$1,260	\$1,260	\$2,018.00	\$2,018.00	\$2,650.00	\$2,650.00	\$1,983.93	\$1,983.93	\$1,950.00	\$1,950.00	\$1,900.00	\$1,900.00	\$2,100.39	\$1,900.00	\$2,650.00
6.29	Furnish and Install 16" x 14" Reducer	1	Each	\$2,170	\$2,170	\$1,840.00	\$1,840.00	\$2,800.00	\$2,800.00	\$2,143.79	\$2,143.79	\$1,800.00	\$1,800.00	\$2,200.00	\$2,200.00	\$2,156.76	\$1,800.00	\$2,800.00
6.30	Furnish and Install 8-in. EBAA Flex-tend Flexible Expansion Joint	4	Each	\$2,500	\$10,000	\$11,045.00	\$44,180.00	\$11,100.00	\$44,400.00	\$12,038.91	\$48,155.64	\$7,100.00	\$28,400.00	\$10,000.00	\$40,000.00	\$10,256.78	\$7,100.00	\$12,038.91
6.31	Furnish and Install 10-in. EBAA Flex-tend Flexible Expansion Joint	4	Each	\$2,500	\$10,000	\$14,372.00	\$57,488.00	\$14,600.00	\$58,400.00	\$16,040.44	\$64,161.76	\$8,850.00	\$35,400.00	\$1,400.00	\$5,600.00	\$11,052.49	\$1,400.00	\$16,040.44
7.1A	3/4" Service Connections (WD 305), Complete	339	Each	\$2,800	\$949,200	\$1,898.50	\$643,591.50	\$2,175.00	\$737,325.00	\$1,023.39	\$346,929.21	\$1,900.00	\$644,100.00	\$3,500.00	\$1,186,500.00	\$2,099.38	\$1,023.39	\$3,500.00
7.1	1" Service Connections (WD 305), Complete	116	Each	\$3,000	\$348,000	\$2,079.00	\$241,164.00	\$2,400.00	\$278,400.00	\$1,275.54	\$147,962.64	\$1,900.00	\$220,400.00	\$3,600.00	\$417,600.00	\$2,250.91	\$1,275.54	\$3,600.00
7.2	1.5" Service Connections (WD 305), Complete	9	Each	\$3,500	\$31,500	\$3,306.50	\$29,758.50	\$3,900.00	\$35,100.00	\$3,009.86	\$27,088.74	\$3,150.00	\$28,350.00	\$5,200.00	\$46,800.00	\$3,713.27	\$3,009.86	\$5,200.00
7.3	2" Service Connections (WD 305), Complete	14	Each	\$4,500	\$63,000	\$3,931.50	\$55,041.00	\$5,000.00	\$70,000.00	\$4,252.06	\$59,528.84	\$3,650.00	\$51,100.00	\$5,500.00	\$77,000.00	\$4,466.71	\$3,650.00	\$5,500.00
7.4	4" Service Connections (WD 305), Complete	9	Each	\$6,500	\$58,500	\$4,768.00	\$42,912.00	\$6,300.00	\$56,700.00	\$6,334.29	\$57,008.61	\$6,350.00	\$57,150.00	\$8,000.00	\$72,000.00	\$6,350.46	\$4,768.00	\$8,000.00
8.1	1" Air Valve Vault (C/2660), Complete	11	Each	\$6,500	\$71,500	\$11,587.00	\$127,457.00	\$13,000.00	\$143,000.00	\$9,731.72	\$107,048.92	\$7,350.00	\$80,850.00	\$6,900.00	\$75,900.00	\$9,713.74	\$6,900.00	\$13,000.00
8.2	2" Air Valve Vault (C/2660), Complete	7	Each	\$10,000	\$70,000	\$12,041.00	\$84,287.00	\$13,500.00	\$94,500.00	\$10,418.42	\$72,928.94	\$7,350.00	\$51,450.00	\$10,000.00	\$70,000.00	\$10,661.88	\$7,350.00	\$13,500.00
9	Minor Blowoff Drain, See Detail C/2671, Complete (tees/bends of detail alre	8	Each	\$7,000	\$56,000	\$6,546.50	\$52,372.00	\$7,900.00	\$63,200.00	\$10,235.14	\$81,881.12	\$7,600.00	\$60,800.00	\$9,100.00	\$72,800.00	\$8,276.33	\$6,546.50	\$10,235.14
10.1	Asphalt Replacement (3" Asphalt -Thickness)	423,000	Square Feet	\$4.40	\$1,861,200	\$3.15	\$1,332,450.00	\$4.95	\$2,093,850.00	\$4.28	\$1,810,440.00	\$3.05	\$1,290,150.00	\$2.45	\$1,036,350.00	\$3.58	\$2.45	\$4.95
10.2	Asphalt Replacement (2.5" Asphalt -Thickness)	131,000	Square Feet	\$4.00	\$524,000	\$3.04	\$398,240.00	\$4.50	\$589,500.00	\$3.80	\$497,800.00	\$2.75	\$360,250.00	\$1.88	\$246,280.00	\$3.19	\$1.88	\$4.50
11.2	Pothole Repair (3" Asphalt add 2" Roadbase)	500	Square Feet	\$5.00	\$2,500	\$7.85	\$3,925.00	\$50.00	\$25,000.00	\$18.40	\$9,200.00	\$27.00	\$13,500.00	\$6.10	\$3,050.00	\$21.87	\$6.10	\$50.00
12.1	Concrete Sidewalk Replacement	7,950	Square Feet	\$16	\$127,200	\$8.71	\$69,244.50	\$17.50	\$139,125.00	\$6.93	\$55,093.50	\$11.00	\$87,450.00	\$10.00	\$79,500.00	\$10.83	\$6.93	\$17.50
12.2	Concrete Waterway Replacement	1,700	Square Feet	\$16	\$27,200	\$17.46	\$29,682.00	\$40.00	\$68,000.00	\$15.99	\$27,183.00	\$17.50	\$29,750.00	\$11.00	\$18,700.00	\$20.39	\$11.00	\$40.00
13	Curb and Gutter Replacement	1,020	Linear Feet	\$80	\$81,600	\$35.26	\$35,965.20	\$102.00	\$104,040.00	\$49.34	\$50,326.80	\$12.00	\$12,240.00	\$45.00	\$45,900.00	\$48.72	\$12.00	\$102.00
14	Replace Roadway Monuments	9	Each	\$3,000	\$27,000	\$475.00	\$4,275.00	\$1,200.00	\$10,800.00	\$1,015.51	\$9,139.59	\$620.00	\$5,580.00	\$900.00	\$8,100.00	\$842.10	\$475.00	\$1,200.00
15	Restore 650 South Retaining Wall	1	Lump Sum	\$5,000	\$5,000	\$16,173.00	\$16,173.00	\$6,000.00	\$6,000.00	\$4,086.51	\$4,086.51	\$2,900.00	\$2,900.00	\$12,000.00	\$12,000.00	\$8,231.90	\$2,900.00	\$16,173.00
16	Trench Stabilization Material	200	Cubic Yard	\$70	\$14,000	\$46.50	\$9,300.00	\$290.00	\$58,000.00	\$29.01	\$5,802.00	\$38.00	\$7,600.00	\$60.00	\$12,000.00	\$92.70	\$29.01	\$290.00
17	Flowable Fill Backfill	100	Cubic Yard	\$300	\$30,000	\$453.50	\$45,350.00	\$275.00	\$27,500.00	\$307.71	\$30,771.00	\$130.00	\$13,000.00	\$300.00	\$30,000.00	\$293.24	\$130.00	\$453.50
18	Non-woven Geotextile Fabric	700	Square Yard	\$6	\$4,200	\$3.65	\$2,555.00	\$2.00	\$1,400.00	\$7.31	\$5,117.00	\$2.25	\$1,575.00	\$5.00	\$3,500.00	\$4.04	\$2.00	\$7.31
19	30" D50 Riprap	1,290	Cubic Yard	\$94	\$121,260	\$70.70	\$91,203.00	\$98.00	\$126,420.00	\$59.73	\$77,051.70	\$48.00	\$61,920.00	\$40.00	\$51,600.00	\$63.29	\$40.00	\$98.00
20	Sewer Lateral Connection	5	Each	\$5,000	\$25,000	\$1,353.00	\$6,765.00	\$3,600.00	\$18,000.00	\$1,224.33	\$6,121.65	\$4,600.00	\$23,000.00	\$3,200.00	\$16,000.00	\$2,795.47	\$1,224.33	\$4,600.00
21	Water Service Connection	5	Each	\$3,000	\$15,000	\$1,605.00	\$8,025.00	\$1,800.00	\$9,000.00	\$5,612.84	\$28,064.20	\$3,300.00	\$16,500.00	\$4,500.00	\$22,500.00	\$3,363.57	\$1,605.00	\$5,612.84
22	Rock Excavation	1,800	Cubic Yard	\$70	\$126,000	\$25.75	\$46,350.00	\$140.00	\$252,000.00	\$10.90	\$19,620.00	\$64.50	\$116,100.00	\$20.00	\$36,000.00	\$52.23	\$10.90	\$140.00
23	Public Information Program Allowance	1	Lump Sum	\$200,000	\$200,000	\$200,000.00	\$200,000.00	\$200,000.00	\$200,000.00	\$200,000.00	\$200,000.00	\$200,000.00	\$200,000.00	\$200,000.00	\$200,000.00	\$200,000.00	\$200,000.00	\$200,000.00
24	Temporary Environmental Control Fencing, detail C/2273	1,000	Linear Feet	\$15	\$15,000	\$6.40	\$6,400.00	\$20.00	\$20,000.00	\$4.07	\$4,070.00	\$7.55	\$7,550.00	\$5.00	\$5,000.00	\$8.60	\$4.07	\$20.00
TOTAL					\$9,338,070.00		\$9,313,434.41		\$10,600,795.00		\$9,391,071.61		\$7,859,191.00		\$8,992,510.00	\$9,231,400.40	\$7,859,191.00	\$10,600,795.00

DIFFERENCE FROM LOW BID:
% DIFFERENCE FROM LOW BID:

\$1,478,879
18.82%

\$1,454,243
18.50%

\$2,741,604
34.88%

\$1,531,881
19.49%

\$0
0.00%

\$1,133,319.00
14.42%

Updated: June 28, 2024

Construction Schedule Review

[illegible]



STAFF COMMENTS

Consideration and possible approval of a **bid to construct the irrigation pond, filters, and booster station** for the irrigation expansion project - Ken Richins

Discussion:

On July 16, 2024, the Water Department held a bid opening for the irrigation ponds, filter and pump station. The winning bid was Interstate Rock for \$ 7,960,938.50.

Alpha Engineering the engineer for this project recommend to the city council to award the project to Interstate Rock.

The water board discussed this on July 30, 2024, and there was a consensus that the bid be awarded to the low bidder Interstate Rock. - Ken Richins

Findings:

Recommendation:

Attachments:

1. Recommendation from Alpha Engineering - Pump station & bonds



43 South 100 East, Suite 100 T 435.628.6500
St George, Utah 84770 F 435.628.6553

alphaengineering.com

August 8, 2024

Hurricane City Water Department
Attention: Ken Richins
646 West 600 North
Hurricane, Utah 84737

Re: Hurricane Irrigation Efficiency Project – Pump Station & Ponds Bid Recommendation

Dear Ken:

Bids were received for the Hurricane Irrigation Efficiency Project – Pump Station & Ponds on July 16, 2024 at 2:00 p.m. at the Hurricane City offices. Four bids were received for the project. After reviewing the submitted bids and the unit costs of the low bid in comparison to other bids received, there are not any major discrepancies. Interstate Rock also provided the required Statement of Qualifications and an acceptable schedule with the bid documents.

We recommend approval of the lowest bidder, Interstate Rock Products, Inc. to be the contractor for the Hurricane Irrigation Efficiency Project – Pump Station & Ponds at the total bid price of \$7,960,938.50

The bid tabulation is attached for your reference.

Let me know if I can provide any additional information.

Sincerely,

Glen E. Carnahan, P.E.
ALPHA ENGINEERING COMPANY

Encl: Bid Tabulation Sheet
Schedule

City of Hurricane
Hurricane Irrigation Efficiency Project - Pump Station Ponds
Bid Tabulation - July 16, 2024

BID SCHEDULE												
Item	Description	Quantity	Units	IRP		Whitaker		PCI		Feller Enterprises		Average Unit Prices
				Unit Price	Total	Unit Price	Total	Unit Price	Total	Unit Price	Total	
1	Mobilization	1	L.S.	\$236,000.00	\$236,000.00	\$471,000.00	\$471,000.00	\$475,000.00	\$475,000.00	\$200,000.00	\$200,000.00	\$345,500.00
2	Removals	1	L.S.	\$1,750.00	\$1,750.00	\$42,700.00	\$42,700.00	\$23,000.00	\$23,000.00	\$36,389.32	\$36,389.32	\$25,959.83
3	Site Grading - Cut	92,565	C.Y.	\$9.75	\$899,943.75	\$9.70	\$897,880.50	\$4.40	\$407,286.00	\$12.46	\$1,133,359.50	\$8.33
4	Site Grading - Fill	981	C.Y.	\$7.25	\$7,112.25	\$7.00	\$6,869.00	\$3.50	\$3,433.50	\$7.04	\$7,899.14	\$6.65
5	Pump Station	1	L.S.	\$2,314,500.00	\$2,314,500.00	\$2,163,000.00	\$2,163,000.00	\$3,000,000.00	\$3,000,000.00	\$1,446,086.02	\$1,446,086.02	\$2,780,896.51
6	3-MG Reinforced Concrete Settling Pond	2	Each	\$983,500.00	\$1,967,000.00	\$869,000.00	\$1,738,000.00	\$1,200,000.00	\$2,400,000.00	\$966,581.50	\$1,933,163.00	\$1,004,270.31
7	Concrete Apron and headwall	1	L.S.	\$41,200.00	\$41,200.00	\$32,500.00	\$32,500.00	\$46,000.00	\$46,000.00	\$55,231.56	\$55,231.56	\$43,732.89
8	Furnish & Install Retention Basin Riprap	1,050	S.F.	\$3.40	\$3,570.00	\$4.00	\$4,200.00	\$10.44	\$10,962.00	\$1.49	\$1,514.50	\$8.08
9	Furnish & Install Electrical Service to 2' Channel Surfacing	63,200	S.F.	\$1.30	\$82,160.00	\$1.50	\$94,800.00	\$1.00	\$63,200.00	\$1.74	\$109,568.00	\$1.39
10	Furnish & Install Electrical Service to Pump Station	1	L.S.	\$333,000.00	\$333,000.00	\$249,000.00	\$249,000.00	\$253,344.00	\$253,344.00	\$262,825.33	\$262,825.33	\$274,511.08
11	Furnish & Install 30" Ductile Iron Pipe with Polyethylene Encasement	2,884	L.F.	\$510.00	\$1,470,840.00	\$315.00	\$914,820.00	\$487.00	\$1,389,828.00	\$501.71	\$1,446,931.64	\$698.43
12	Furnish & Install 30-Inch Flanged Butterfly Valve	2	Each	\$30,500.00	\$61,000.00	\$24,300.00	\$48,600.00	\$26,000.00	\$52,000.00	\$31,387.04	\$62,774.08	\$28,046.70
13	Furnish & Install 30-Inch Flanged Gate Valve	2	Each	\$66,700.00	\$133,400.00	\$70,200.00	\$140,400.00	\$60,000.00	\$120,000.00	\$69,078.74	\$138,157.48	\$65,994.69
14	Furnish & Install 30" x 30" Flanged Tee	1	Each	\$11,700.00	\$11,700.00	\$11,700.00	\$11,700.00	\$12,000.00	\$12,000.00	\$12,847.44	\$12,847.44	\$12,061.86
15	Furnish & Install 30" Flanged 45 Degree Wye	1	Each	\$18,600.00	\$18,600.00	\$19,500.00	\$19,500.00	\$19,000.00	\$19,000.00	\$19,805.41	\$19,805.41	\$19,326.35
16	Furnish & Install 30" MJ 45 Degree Elbow	6	Each	\$8,050.00	\$48,300.00	\$11,300.00	\$67,800.00	\$8,115.00	\$48,690.00	\$7,138.41	\$42,830.46	\$8,650.85
17	Furnish & Install 30" MJ 90 Degree Elbow	4	Each	\$8,650.00	\$34,600.00	\$13,300.00	\$53,200.00	\$9,725.00	\$38,900.00	\$7,541.87	\$30,167.48	\$9,629.22
18	Furnish & Install 30" FL x MJ Adaptor	8	Each	\$6,530.00	\$52,240.00	\$7,510.00	\$60,080.00	\$5,725.00	\$45,800.00	\$5,257.74	\$42,061.92	\$7,065.60
19	Furnish & Install 30" Canal Gate	2	Each	\$42,300.00	\$84,600.00	\$71,200.00	\$142,400.00	\$48,000.00	\$96,000.00	\$44,755.51	\$89,511.02	\$51,563.88
20	Furnish & Install Inlet Structure	2	Each	\$23,700.00	\$47,400.00	\$28,100.00	\$56,200.00	\$32,000.00	\$64,000.00	\$32,667.32	\$65,334.64	\$29,166.83
21	Furnish & Install Outlet Structure	2	Each	\$43,000.00	\$86,000.00	\$51,700.00	\$103,400.00	\$38,000.00	\$76,000.00	\$18,486.02	\$36,972.04	\$38,021.51
22	Furnish & Install 4" SDR-35 PVC Drumpipe	200	L.F.	\$45.50	\$9,100.00	\$85.50	\$17,100.00	\$65.00	\$13,000.00	\$38.51	\$7,702.00	\$38.80
23	Furnish & Install 4" Cleanout	2	Each	\$1,650.00	\$3,300.00	\$1,510.00	\$3,020.00	\$785.00	\$1,570.00	\$2,119.40	\$4,238.80	\$1,616.10
24	Furnish & Install 6' Galvanized Chain Link Security Fence	2,825	L.F.	\$36.50	\$103,112.50	\$35.50	\$100,287.50	\$34.00	\$96,050.00	\$39.00	\$110,350.00	\$36.00
25	Furnish & Install 16' Chain Link Security Gate	1	Each	\$2,550.00	\$2,550.00	\$2,550.00	\$2,550.00	\$2,500.00	\$2,500.00	\$3,148.32	\$3,148.32	\$2,662.08
26	Furnish & Install Tortoise Fence	1	L.F.	\$14.50	N/A	\$11.50	N/A	\$12.00	N/A	\$14.52	N/A	\$13.14
Total Bid Schedule					\$7,069,938.50		\$8,213,587.00		\$8,754,363.50		\$9,331,057.70	

Corrected Bid Total

HURICANE CITY IRRIGATION EFFICIENCY PUMP STATION PONDS					Gantt Chart														16-Jul-24 08:57	
Activity ID	Activity Name	Original Duration	Remaining Duration	Start	Finish	June 2024 July 2024														
						19	26	02	09	16	23	30	07	14						
HCPUMPSTATION HURICANE CITY IRRIGATION EFFICIENCY PUMP STATION & PONDS																				
HCPUMPSTATION 1 MILESTONES																				
MS-100	NTP	201	201	05-Aug-24	15-May-25															
MS-110	CONSTRUCTION DURATION	1	1	05-Aug-24*	05-Aug-24															
MS-120	SUBSTANTIAL COMPLETION	176	176	06-Aug-24	11-Apr-25															
MS-130	PUNCHLIST	1	1	14-Apr-25	14-Apr-25*															
MS-140	FINAL COMPLETION	22	22	15-Apr-25	14-May-25															
		1	1	15-May-25	15-May-25															
HCPUMPSTATION 2 PRECON																				
HCPUMPSTATION 2.1 SUBMITTALS																				
SUB-100	PUMPS	154	154	05-Aug-24	11-Mar-25															
		10	10	06-Aug-24	19-Aug-24															
		10	10	06-Aug-24	19-Aug-24															
HCPUMPSTATION 2.2 REVIEW / APPROVE																				
REV-100	PUMPS	5	5	20-Aug-24	26-Aug-24															
		5	5	20-Aug-24	26-Aug-24															
HCPUMPSTATION 2.3 PROCUREMENT																				
PROC-100	PUMPS	154	154	05-Aug-24	11-Mar-25															
		154	154	05-Aug-24	11-Mar-25															
HCPUMPSTATION 3 CONSTRUCTION																				
HCPUMPSTATION 3.1 SITE WORK																				
CON-100	MOBILIZATION	182	182	06-Aug-24	21-Apr-25															
		182	182	06-Aug-24	21-Apr-25															
CON-110	SITE GRADING	3	3	06-Aug-24	08-Aug-24															
		54	54	09-Aug-24	24-Oct-24															
CON-120	PUMP STATION GRADING	10	10	16-Aug-24	29-Aug-24															
CON-130	30" DUCTILE IRON PIPE	40	40	30-Aug-24	25-Oct-24															
CON-140	ELECTRICAL SERVICE TO PUMP STATION	30	30	28-Oct-24	09-Dec-24															
CON-150	ELECTRICAL POWER COMMISSION	15	15	10-Dec-24	31-Dec-24															
CON-160	MAINTENANCE ROAD	6	6	14-Apr-25	21-Apr-25															
HCPUMPSTATION 3.2 PUMP STATION																				
PUMP-110	UNDERGROUND PIPING & ELECTRICAL ROUGH IN	158	158	30-Aug-24	11-Apr-25															
		36	36	30-Aug-24	21-Oct-24															
PUMP-120	CAST-IN-PLACE CONCRETE (FOOTINGS/SLAB/WALLS/ROOF)	44	44	22-Oct-24	23-Dec-24															
PUMP-130	MECHANICAL PIPING & ELECTRICAL	36	36	24-Dec-24	12-Feb-25															
PUMP-150	INSTALL PUMPS	4	4	12-Mar-25	17-Mar-25															
PUMP-160	FINISH ELECTRICAL / HVAC / SCADA	10	10	18-Mar-25	31-Mar-25															
PUMP-170	START-UP	5	5	01-Apr-25	07-Apr-25															
PUMP-180	PUMP STATION SITE CONCRETE FLATWORK	4	4	08-Apr-25	11-Apr-25															
HCPUMPSTATION 3.3 SETTLING PONDS																				
POND-100	FINISH SUBGRADE - NORTH	118	118	25-Oct-24	10-Apr-25															
		7	7	25-Oct-24	04-Nov-24															
POND-110	AGGREGATE BASE - NORTH	7	7	05-Nov-24	14-Nov-24															
POND-120	FORM / IRON / POUR / STRIP - NORTH	45	45	15-Nov-24	17-Jan-25															
POND-130	FINISH SUBGRADE - SOUTH	7	7	20-Jan-25	28-Jan-25															
POND-140	AGGREGATE BASE - SOUTH	7	7	29-Jan-25	06-Feb-25															
POND-150	FORM / IRON / POUR / STRIP - SOUTH	45	45	07-Feb-25	10-Apr-25															

Remaining Level of Effort

Actual Work

Critical Remaining Work

Actual Level of Effort

Remaining Work

Milestone

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TASK filter: All Activities

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■ Remaining Level of Effort
 ■ Actual Work
 ■ Critical Remaining Work
 ■ Actual Level of Effort
 ■ Remaining Work
 ◆ Milestone