

Date of Issuance: April 27, 2022 Effective Date: 04/27/2022  
 Owner: City of Jackson, MO Owner's Ordinance No.:  
 Contractor: Robinson Industrial, Heavy & Commercial Contracting, Inc.  
dba RIHC Contracting  
 Engineer: Horner & Shifrin, Inc. Engineer's Project No.: 1721200

The Contract is modified as follows upon execution of this Change Order:

Description: New pump station site is relocated in consideration of value engineering discussions between Engineer and Contractor to reduce total project construction cost.

Drawings: The following drawings are hereby removed and replaced with the attached sheets: C2, C4, C5, C6, C7, C9, P2, P3, E2, E3, E4

Specifications: Remove and substitute specification pages with the attached revised pages. Affects Sections 01010, 01100, and 01150

Attachments: Table 1, Table 2 (see above for attached Drawings & Specifications)

CHANGE IN CONTRACT PRICE	CHANGE IN CONTRACT TIMES
Original Contract Price:  \$ <u>2,042,345.00</u>	Original Contract Times: Substantial Completion: <u>See Agreement</u> Ready for Final Payment: <u>See Agreement</u> days or dates
[Increase] [Decrease] from previously approved Change Orders:  \$ <u>N/A</u>	[Increase] [Decrease] from previously approved Change Orders: Substantial Completion: <u>(0 Days)</u> Ready for Final Payment: <u>(0 Days)</u> days
Contract Price prior to this Change Order:  \$ <u>2,042,345.00</u>	Contract Times prior to this Change Order: Substantial Completion: <u>See Agreement</u> Ready for Final Payment: <u>See Agreement</u> days or dates
<del>[Increase]</del> [Decrease] of this Change Order:  \$ <u>(200,394.00) (Decrease)</u>	[Increase] [ <del>Decrease</del> ] of this Change Order: Secondary Substantial Completion: <u>(0 Days)</u> Ready for Final Payment: <u>(0 Days)</u> days
Contract Price incorporating this Change Order:  \$ <u>1,841,951.00</u>	Contract Times with all approved Change Orders: Substantial Completion: <u>(Varies)</u> Ready for Final Payment: <u>(Varies)</u> days or dates

RECOMMENDED:

ACCEPTED:

ACCEPTED:

By: _____ Engineer (if required)	By: _____ Owner (Authorized Signature)	By: _____ Contractor (Authorized Signature)
Title: <u>Project Manager</u> <u>Horner &amp; Shifrin, Inc.</u>	Title: _____	Title: _____
Date: <u>April 27, 2022</u>	Date: _____	Date: _____

**Table No. 1 - Description of Change Order No. 1**  
**CITY OF JACKSON, MO**  
**KIMBELAND PUMP STATION IMPROVEMENT PROJECT**  
**CHANGE ORDER NO. 1 - ADJUSTMENT OF BID QUANTITIES & UNIT PRICES**

Item No.	Description	Attached Reference Exhibit	Pay Item No. Affected	Quantity Change	Unit Price Change	Increase (Decrease) in Contract Price	Increase (Decrease) in Contract Time	Explanation/Comments
1	Decrease quantities and unit price for Pay Item No. 1 - Excavation - Class "A"	NA	1	(47)	(\$3.00)	(\$16,380.00)	0 days	<sup>[1]</sup> Value engineering pump station site redesign per Change Order No.1
2	Decrease quantities and unit price for Pay Item No.2 - Excavation - Class "C"	NA	2	(56)	(\$1.00)	(\$4,291.00)	0 days	<sup>[1]</sup>
3	Decrease quantities and unit price for Pay Item No.3 - Granular Backfill	NA	3	(69)	(\$1.00)	(\$6,225.00)	0 days	<sup>[1]</sup>
4	Decrease unit price for Pay Item No.4 - Force Main - 10 inch, DIP	NA	4	0	(\$112.00)	(\$6,720.00)	0 days	<sup>[1]</sup>
5	Decrease quantities and increase unit price for Pay Item No.5 - Force Main - 12 inch, PVC	NA	5	(2)	\$1,119.00	\$21,458.00	0 days	<sup>[1]</sup>
5.a	Add Pay Item No.22.a - Pipe Sewer - 8 inch, PVC	NA	5.a	28	\$200.00	\$5,600.00	0 days	<sup>[1]</sup>
5.b	Add Pay Item No.22.b - 12" MJ Gate Valve w/VB w/MJ Tee & TB	NA	5.b	1	\$6,500.00	\$6,500.00	1 days	
6	Decrease quantities and unit price for Pay Item No.6 - Pipe Sewer - 15 inch, PVC	NA	6	(20)	(\$2.00)	(\$4,400.00)	0 days	<sup>[1]</sup>
7	Decrease quantities and unit price for Pay Item No.7 - Pipe Sewer - 16 inch, DIP (Class 56)	NA	7	(63)	(\$80.00)	(\$42,516.00)	0 days	<sup>[1]</sup>
8	Increase quantities and unit price for Pay Item No.8 - Manhole - Standard Construction	NA	8	3	\$83.00	\$7,696.00	0 days	<sup>[1]</sup>
9	Decrease unit price for Pay Item No.9 - Outside Foulwater Drop	NA	9	0	(\$108.00)	(\$216.00)	0 days	<sup>[1]</sup>
10	Decrease unit price for Pay Item No.10 - Concrete Encasement - Class A	NA	10	0	(\$6.00)	(\$306.00)	0 days	<sup>[1]</sup>
11	Decrease unit price for Pay Item No.11 - Air Release Manhole	NA	11	0	(\$112.00)	(\$112.00)	0 days	<sup>[1]</sup>
12	Decrease unit price for Pay Item No.12 - [Abandon] Special Manhole 7D-017	NA	12	0	(\$66,864.00)	(\$66,764.00)	0 days	<sup>[1]</sup>
13	Decrease unit price for Pay Item No.13 - Special Storm Manhole "A"	NA	13	0	(\$13.00)	(\$13.00)	0 days	<sup>[1]</sup>
14	Decrease unit price for Pay Item No.14 - Rock Blanket - Heavy	NA	14	0	(\$1.00)	(\$307.00)	0 days	<sup>[1]</sup>
15	Decrease unit price for Pay Item No.15 - Electrical Conduits (2-4"dia. PVC) Buried (incl. Excavation)	NA	15	0	(\$2.00)	(\$550.00)	0 days	<sup>[1]</sup>
16	Decrease unit price for Pay Item No.16 - Sectionalizing Cabinet	NA	16	0	(\$79.00)	(\$158.00)	0 days	<sup>[1]</sup>
17	Decrease unit price for Pay Item No.17 - 30"x60" Pull Box	NA	17	0	(\$97.00)	(\$97.00)	0 days	<sup>[1]</sup>
18	Decrease unit price for Pay Item No.18 - Electrical Transclosure	NA	18	0	(\$271.00)	(\$271.00)	0 days	<sup>[1]</sup>
19	Decrease unit price for Pay Item No.19 - Portable Backup Generator	NA	19	0	(\$1,678.00)	(\$1,678.00)	0 days	<sup>[1]</sup>
20	Decrease unit price for Pay Item No.20 - Abandon Ex. Water Service Line	NA	20	0	(\$15.00)	(\$15.00)	0 days	<sup>[1]</sup>
21	Decrease quantities and unit price for Pay Item No.21 - 12" Tap Valve & Saddle - BRANCH	NA	21	(1)	(\$193.00)	(\$15,624.00)	0 days	<sup>[1]</sup>
22	Decrease unit price for Pay Item No.22 - 12" Tap Valve & Saddle - LINE	NA	22	0	(\$193.00)	(\$193.00)	0 days	<sup>[1]</sup>
23	Decrease unit price for Pay Item No.23 - Mobilization	NA	23	0	(\$2,866.00)	(\$2,866.00)	0 days	<sup>[1]</sup>
24	Decrease unit price for Pay Item No.24 - Protection & Restoration of Site	NA	24	0	(\$379.00)	(\$379.00)	0 days	<sup>[1]</sup>
25	Decrease unit price for Pay Item No.25 - Bypass Pumping	NA	25	0	(\$508.00)	(\$508.00)	0 days	<sup>[1]</sup>
26	Decrease unit price for Pay Item No.26 - Abandon Ex. Kimbeland Pump Station	NA	26	0	(\$255.00)	(\$255.00)	0 days	<sup>[1]</sup>
27	Decrease unit price for Pay Item No.27 - New Kimbeland Pump Station	NA	27	0	(\$70,804.00)	(\$70,804.00)	0 days	<sup>[1]</sup>
	<b>TOTAL INCREASE (DECREASE)</b>					<b>(\$200,394.00)</b>	<b>0 days</b>	

**Table 2 - Fee Summary of Change Order No. 1**  
 CITY OF JACKSON, MO  
 KIMBELAND PUMP STATION IMPROVEMENT PROJECT  
 CHANGE ORDER NO. 1 - ADJUSTMENT OF BID QUANTITIES & UNIT PRICES

Pay Item No.	Description	Original Contract			Total Adjusted Contract Per Previous C.O.'s			Increase (Decrease) in Contract This C.O.			Total Adjusted Contract This C.O.			
		Quantity	Units	Unit Price	Extended Price	Quantity	Unit Price	Extended Price	Quantity	Unit Price	Extended Price	Quantity	Unit Price	Extended Price
1	Excavation - Class "A"	102	CY	\$345.00	\$35,190.00	102	\$345.00	\$35,190.00	(47)	(\$3.00)	(\$16,380.00)	55	\$342.00	\$18,810.00
2	Excavation - Class "C"	259	CY	\$73.00	\$18,907.00	259	\$73.00	\$18,907.00	(56)	(\$1.00)	(\$4,291.00)	203	\$72.00	\$14,616.00
3	Granular Backfill	84	Cy	\$90.00	\$7,560.00	84	\$90.00	\$7,560.00	(89)	(\$1.00)	(\$6,225.00)	15	\$89.00	\$1,335.00
4	Force Main - 10 inch, DIP	60	LF	\$1,359.00	\$81,540.00	60	\$1,359.00	\$81,540.00	0	(\$112.00)	(\$6,720.00)	60	\$1,247.00	\$74,820.00
5	Force Main - 12 inch, PVC	22	LF	\$461.00	\$10,142.00	22	\$461.00	\$10,142.00	(2)	\$1,119.00	\$21,458.00	20	\$1,580.00	\$31,600.00
5.a <sup>[1]</sup>	Pipe Sewer - 8 Inch, PVC	0	LF	\$0.00	\$0.00	0	\$0.00	0	28	\$200.00	\$5,600.00	28	\$200.00	\$5,600.00
5.b <sup>[1]</sup>	12" MJ Gate Valve w/VB w/MJ Tee & TB	0	EA	\$0.00	\$0.00	0	\$0.00	0	1	\$6,500.00	\$6,500.00	1	\$6,500.00	\$6,500.00
<sup>[1]</sup> Pay Item No.22.a & No.22.b were added to the list of Unit Prices per this Change Order No.1.														
6	Pipe Sewer - 15 inch, PVC	50	LF	\$217.00	\$10,850.00	50	\$217.00	\$10,850.00	(20)	(\$2.00)	(\$4,400.00)	30	\$215.00	\$6,450.00
7	Pipe Sewer - 16 inch, DIP (Class 56)	207	LF	\$492.00	\$101,844.00	207	\$492.00	\$101,844.00	(63)	(\$80.00)	(\$42,516.00)	144	\$412.00	\$59,328.00
8	Manhole - Standard Construction	32	VLF	\$1,597.00	\$51,104.00	32	\$1,597.00	\$51,104.00	3	\$83.00	\$7,696.00	35	\$1,680.00	\$58,800.00
9	Outside Foulwater Drop	2	EA	\$9,416.00	\$18,832.00	2	\$9,416.00	\$18,832.00	0	(\$106.00)	(\$216.00)	2	\$9,308.00	\$18,616.00
10	Concrete Encasement - Class A	51	CY	\$477.00	\$24,327.00	51	\$477.00	\$24,327.00	0	(\$6.00)	(\$306.00)	51	\$471.00	\$24,021.00
11	Air Release Manhole	1	EA	\$9,434.00	\$9,434.00	1	\$9,434.00	\$9,434.00	0	(\$112.00)	(\$112.00)	1	\$9,322.00	\$9,322.00
12	[Abandon] Special Manhole 7D-017	1	EA	\$75,964.00	\$75,964.00	1	\$75,964.00	\$75,964.00	0	(\$66,864.00)	(\$66,764.00)	1	\$9,100.00	\$9,100.00
13	Special Storm Manhole "A"	1	EA	\$1,117.00	\$1,117.00	1	\$1,117.00	\$1,117.00	0	(\$13.00)	(\$13.00)	1	\$1,104.00	\$1,104.00
14	Rock Blanket - Heavy	307	SY	\$92.00	\$28,244.00	307	\$92.00	\$28,244.00	0	(\$1.00)	(\$307.00)	307	\$91.00	\$27,937.00
15	Electrical Conduits (2-4"dia. PVC) Buried (incl. Excavation)	275	LF	\$132.00	\$36,300.00	275	\$132.00	\$36,300.00	0	(\$2.00)	(\$550.00)	275	\$130.00	\$35,750.00
16	Sectionalizing Cabinet	2	EA	\$6,128.00	\$12,256.00	2	\$6,128.00	\$12,256.00	0	(\$79.00)	(\$158.00)	2	\$6,049.00	\$12,098.00
17	30"x60" Pull Box	1	EA	\$7,580.00	\$7,580.00	1	\$7,580.00	\$7,580.00	0	(\$97.00)	(\$97.00)	1	\$7,483.00	\$7,483.00
18	Electrical Enclosure	1	EA	\$21,244.00	\$21,244.00	1	\$21,244.00	\$21,244.00	0	(\$271.00)	(\$271.00)	1	\$20,973.00	\$20,973.00
19	Portable Backup Generator	1	EA	\$133,705.00	\$133,705.00	1	\$133,705.00	\$133,705.00	0	(\$1,678.00)	(\$1,678.00)	1	\$132,027.00	\$132,027.00
20	Abandon Ex. Water Service Line	1	EA	\$1,358.00	\$1,358.00	1	\$1,358.00	\$1,358.00	0	(\$15.00)	(\$15.00)	1	\$1,343.00	\$1,343.00
21	12" Tap Valve & Saddle - BRANCH	1	EA	\$15,624.00	\$15,624.00	1	\$15,624.00	\$15,624.00	(1)	(\$193.00)	(\$15,624.00)	0	\$15,431.00	\$0.00
22	12" Tap Valve & Saddle - LINE	1	EA	\$15,624.00	\$15,624.00	1	\$15,624.00	\$15,624.00	0	(\$193.00)	(\$193.00)	1	\$15,431.00	\$15,431.00
23	Mobilization	1	LS	\$260,773.00	\$260,773.00	1	\$260,773.00	\$260,773.00	0	(\$2,866.00)	(\$2,866.00)	1	\$257,907.00	\$257,907.00
24	Protection & Restoration of Site	1	LS	\$31,650.00	\$31,650.00	1	\$31,650.00	\$31,650.00	0	(\$379.00)	(\$379.00)	1	\$31,271.00	\$31,271.00
25	Bypass Pumping	1	LS	\$44,363.00	\$44,363.00	1	\$44,363.00	\$44,363.00	0	(\$508.00)	(\$508.00)	1	\$43,855.00	\$43,855.00
26	Abandon Ex. Kimbeland Pump Station	1	LS	\$22,808.00	\$22,808.00	1	\$22,808.00	\$22,808.00	0	(\$255.00)	(\$255.00)	1	\$22,553.00	\$22,553.00
27	New Kimbeland Pump Station	1	LS	\$964,105.00	\$964,105.00	1	\$964,105.00	\$964,105.00	0	(\$70,804.00)	(\$70,804.00)	1	\$893,301.00	\$893,301.00
<b>TOTAL BASE BID (Sum Items 1-27) =</b>				<b>\$2,042,345.00</b>		<b>\$2,042,345.00</b>		<b>(\$200,394.00)</b>		<b>\$1,841,951.00</b>				
28	Detention Storage Bank "A" (Alternate "A")	1	LS	\$369,241.00	\$369,241.00	1	\$369,241.00	\$369,241.00	(1)	(\$369,241.00)	(\$369,241.00)	0	\$0.00	\$0.00
<b>ALTERNATE "A" SUBTOTAL (Item 28) =</b>				<b>\$369,241.00</b>		<b>\$369,241.00</b>		<b>(\$369,241.00)</b>		<b>\$0.00</b>				
<b>BID TOTAL SUMMARY</b>				<b>\$2,042,345.00</b>		<b>\$2,042,345.00</b>		<b>(\$200,394.00)</b>		<b>\$1,841,951.00</b>				
TOTAL BASE BID (Sum Items 1-27) =				<b>\$2,042,345.00</b>		<b>\$2,042,345.00</b>		<b>(\$200,394.00)</b>		<b>\$1,841,951.00</b>				
ALTERNATE "A" SUBTOTAL (Item 28) =				<b>\$369,241.00</b>		<b>\$369,241.00</b>		<b>(\$369,241.00)</b>		<b>\$0.00</b>				

## DIVISION 1 – GENERAL REQUIREMENTS

### SECTION 01010

#### SUMMARY OF WORK

#### PART 1 - GENERAL

##### 1.1 RELATED DOCUMENTS

- A. General and Supplementary Conditions of the Contract.

##### 1.2 WORK COVERED BY CONTRACT DOCUMENTS

- A. The Work of this Contract consists of the following:

- Removal/abandonment of the existing below grade steel dry-pit pump station structure/equipment; existing 6' by 6' reinforced concrete wet well; connecting 36" RCP; bypass pumping portal, electrical control/power panels; ex. back-up generator; and miscellaneous sitework/utility modifications.
- ~~Rehabilitation and modification of the existing 7' diameter flat-top manhole, EX. MH 7D-017. Removal & replacement of existing manhole MH 7D-016 and installation of approximately 28' LF of 8" PVC gravity sewer.~~
- Installation of approximately 60' of 10" DIP Hwy. 61 East Pump Station bypass force main, 22' of 12" PVC force main, and all required fittings, valves, thrust blocks, etc.
- Installation of approximately ~~290 259'~~ of 16" CL 56 DIP and ~~34' 50'~~ of 15" PVC gravity sewer lines with four (4) new pre-cast concrete manholes.
- Installation of buried electrical conduits, hand holes, sectionalizing cabinets and electrical transclosure.
- Construction of a new duplex submersible pump station with Wet Well/Valve Vault; pumps and process piping; pump station controls & instrumentation; emergency generator, new electrical/water/phone service connections; site improvements/fencing; site grading; connection to an existing 12" force main; and all other miscellaneous Work and appurtenances necessary to complete the project.
- ~~Alternate "A" – Construction of new on-line detention storage to serve new duplex submersible pump station (see Specification Section 01100 – ALTERNATES).~~

##### 1.3 PAYMENT

- A. Complete this Work as a unit price Contract.

## SECTION 01100

### ALTERNATES

#### PART 1 – GENERAL

##### 1.1 REQUIREMENTS INCLUDED

- A. This section identifies each alternate by number, and describes the basic changes to be incorporated into the work, only when that Alternate is made a part of the work by specific provision in the Agreement Form.

##### 1.2 RELATED REQUIREMENTS

- A. Agreement Form Incorporation of Alternates into the work.
- B. Sections of the Specifications as listed under the respective Alternates.
- C. Coordinate pertinent related work and modify surrounding work as required to properly integrate the work under each Alternate, and to provide the complete construction required by Contract Documents.

##### 1.3 DESCRIPTION OF ALTERNATES

A. There are no alternates included with this Project.

~~B. DETENTION BANK "A" (ALTERNATE "A"): Alternate "A" shall include all costs for labor, material, and equipment including but not limited to, excavation, sheeting and shoring as necessary, backfill and compaction, dewatering, concrete, steel reinforcement, compacted rock fill foundation, granular, pipe bedding, 16"Ø AWWA C-905 PVC sewer pipe between MH-2 and MH-4 with all joints, fittings, and appurtenances, new precast manhole MH-4, making all pipe connections, testing, furnish and install corrugated polyethylene storage pipe, access manholes, and all other accessories and work necessary to complete the Detention Storage Bank "A" per the Plans. Work shall be as shown on Plan Sheet(s) C4, C13, & C14.~~

#### PART 2 - PRODUCTS

Not Used.

#### PART 3 - EXECUTION

Not Used.

END OF SECTION 01100

1.6 BID ITEM NO. 4: FORCE MAIN – 10 INCH, DIP

- A. The payment shall include all costs of labor, materials, equipment and tools required for complete installation of pressure sewer pipe including, but not limited to: 10"Ø CL52 ductile-iron pipe, interior epoxy lining, granular pipe bedding, earth backfill, laying of the pipe, thrust blocks, mechanical joint fittings (tees, bends, etc...), mechanical joint restraints, 10"Ø MJ plug valves (where shown on the drawings), valve extension stems (where needed), valve boxes, dewatering, joining of the pipe, utility marking tape, tracer wire and appurtenances (terminations, ground rods, splices, etc... required for complete tracer wire installation), and all required testing in accordance with the Contract Documents.
- B. Additionally, this Bid Item No.4 shall include all costs to connect the new 10"Ø ductile-iron force main to the existing 10"Ø force main as shown on Drawing Sheet C5.
- C. Provision and installation of granular backfill, when indicated on the drawings, shall be paid for separately under Bid Item No.3.
- D. Trench excavation will be paid under Bid Items No.1 and No.2.
- E. Measurement of pipe will be the horizontal distance made along the centerline of the pipe installed excluding piping within structures.
- F. Payment will be made at the appropriate contract unit price Bid per lineal foot.

1.7 BID ITEM NO. 5: FORCE MAIN – 12 INCH, PVC

- A. The payment shall include all costs of labor, materials, equipment and tools required for complete installation of pressure sewer pipe including, but not limited to: 12"Ø AWWA C-900 Polyvinyl Chloride (PVC) pipe, granular pipe bedding, earth backfill, laying of the pipe, thrust blocks, fitting, mechanical joint restraints, dewatering, joining of the pipe, tracer wire and appurtenances (terminations, ground rods, splices, etc... required for complete tracer wire installation), and all required testing in accordance with the Contract Documents.
- B. Granular backfill shall be paid for under a separate pay item.
- C. Measurement of pipe will be the horizontal distance made along the centerline of the pipe installed excluding piping within structures.
- D. Payment will be made at the appropriate contract unit price bid per lineal foot.

1.8 BID ITEM NO. 5.a: PIPE SEWER – 8 INCH, PVC

- A. The payment for Bid Items No.22.a shall include all costs as detailed in the Sanitary Sewerage Facilities Standard Construction Specifications for The City of Jackson, Missouri (Revision 2021).

1.9 BID ITEM NO. 5.b: PIPE SEWER – 12” MJ GATE VALVE W/VB W/MJ TEE & TB

- A. Price shall include all costs for labor, material, and equipment to install the 12-inch AWWA C509/C515 NRS double-disc gate valve on new 12” PVC sewer including but not limited to valve, valve box, extension stem (where needed), 12”x12” MJ Tee, thrust blocking, excavation, backfill, granular backfill, pipe bedding, detection wire, mechanical joint restraints, and testing as specified on the Contract Drawings.
- B. Payment will be made at the appropriate contract unit price per each.

1.10 BID ITEM NO. 6: PIPE SEWER – 15 INCH, PVC

1.11 BID ITEM NO. 7: PIPE SEWER – 16 INCH, DIP (CLASS 56)

1.12 BID ITEM NO. 8: MANHOLE – STANDARD CONSTRUCTION

1.13 BID ITEM NO. 9: FOULWATER DROP – 12 INCH PIPE

1.14 BID ITEM NO. 10: CONCRETE ENCASEMENT – CLASS A

- A. The payment for Bid Items No.6 through No. 10 shall include all costs as detailed in the Sanitary Sewerage Facilities Standard Construction Specifications for The City of Jackson, Missouri (Revision 2021).

1.15 BID ITEM NO. 11: AIR RELEASE MANHOLE

- A. Payment will be made for installation of a new air-release manhole with associated appurtenances as indicated on Contract Drawings Sheet C5 and specifications at the lump sum bid price for the Pay Item “AIR RELEASE MANHOLE.”
- B. Such payment shall include all costs of labor, materials, equipment and tools necessary to construct the new air-release manhole, including but not limited to all excavation, earth and backfill, granular backfill (when indicated on the Drawings), sub-base, force main connections, pipe bedding, Class “A” concrete, reinforced precast concrete structure, steps, manhole frame and cover, geotextile fabric, combination vacuum/air-release valve, 10” x 2” tapping saddle, pipe couplings, ball valves, structural pipe supports, testing, and all other required work considered incidental to the completed installation of the new air-release manhole.

1.16 BID ITEM NO. 12: [ABANDON] SPECIAL MANHOLE 7D-017

A. The payment shall include all costs as detailed in the Sanitary Sewerage Facilities Standard Construction Specifications for The City of Jackson, Missouri (Revision 2021).

~~B. Payment will be made for the rehabilitation of Special Manhole 7D-017 to include, without limitation:~~

~~1. Lining: Interior lining of designated precast manholes as detailed in the Contract Documents. Payment shall include all costs for labor, material, and equipment including, but not limited to cleaning and preparation of the interior surface of the manhole, filling all voids, installation of the lining material, and all other thing necessary or required for the installation of the manhole lining.~~

2. ~~Pipe Connections: All costs for labor, material, equipment required for making pipe connection to existing manhole including, without limitation, cutting a hole in the existing manhole, adjusting the invert, proper pipe bedding, grouting, waterstop seals, installing of pipe, and all things necessary for making the completed pipe connection(s) in accordance with Contract Documents.~~

3. ~~Grouting: All costs of labor and equipment and tools required to chemical grout Special Manhole 7D-017. Work shall include, but not limited to clean and prepare interior surface of existing manhole, seal all active leaks, install the chemical grout and do all things necessary or required for grouting existing manhole as indicated on the Contract Documents.~~

4. ~~Interior Foulwater Drop: All costs of labor and equipment and tools required for the provision and installation of an interior foulwater drop within ex. manhole 7D-017 in accordance with the detail provided on Contract Drawing Sheet C9.~~

C. ~~Payment will be made at the appropriate contract unit price bid per each.~~

1.17 BID ITEM NO. 13: SPECIAL STORM MANHOLE "A"

- A. The payment shall include all costs of labor, materials, equipment and tools required for replacing the existing manhole frame and cover with new frame and cover as Specified on the Plans. Work shall include, but not limited to removal of existing frame and cover, excavation, backfill, supply and install new frame and cover, clean and prepare cone surface, and do all things necessary or required for installing the new frame and cover on the existing manhole.
- B. Payment will be made for the successful installation of the frame and cover at the respective contract unit price per each.

1.18 BID ITEM NO. 14: ROCK BLANKET – HEAVY

- A. The payment shall include all costs as detailed in the Sanitary Sewerage Facilities Standard Construction Specifications for The City of Jackson, Missouri (Revision 2021).

1.19 BID ITEM NO. 15: ELECTRICAL CONDUITS (2-4" DIA. PVC) BURIED (INCL. EXCAVATION)

- A. Payment shall include all costs for labor, material, and equipment for installation of two (2) 2-inch PVC conduits including, but not limited to excavation, granular bedding, earth backfill, laying of the conduit, concrete encasement beyond the pay quantity defined in Bid Item No.10, fittings, casing spacers, **pull tape/wire**, and jointing of the conduit in accordance with details shown on Contract Drawings.
- B. The City of Jackson, MO (OWNER) will provide and install the high-voltage conductors within the conduits detailed under Bid Item No. 15, herein. Contractor shall be responsible for all low-voltage terminations.



1.23 BID ITEM NO. 19: PORTABLE BACKUP GENERATOR

- D. Price shall include all costs for labor, material, and equipment required for the generator including the generator enclosure which shall contain the generator and diesel fuel tank, and connection, installation, and testing of, the new generator, and appurtenances as specified in these Specifications and as shown on Contract Drawings.
- E. Payment will be made at the appropriate lump sum price.

1.24 BID ITEM NO. 20: ABANDON EX. WATER SERVICE LINE

- A. Price shall include all costs for labor, material, and equipment required to remove the existing yard hydrant and to cut and cap the existing 2-inch water main, including but not limited to caps, plugs, couplings, thrust restraint, excavation, hauling of spoils, earth backfill, backfill compaction, as required by Contract Documents.
- B. Granular backfill shall be paid for under a separate pay item.
- C. Payment will be made at the appropriate contract unit price each.

1.25 BID ITEM NO. 21: 12" TAP VALVE & SADDLE – BRANCH

A. NOT USED.

~~B. Price shall include all materials, labor and equipment required to complete the tap of existing 12-inch force main including but not limited to pressure tap, 12"x12" tapping sleeve, 12" tapping valve, valve box, extension stem (where needed), excavation, backfill, granular backfill pipe, pipe bedding, detection wire, testing, mechanical joint restraints, and thrust block.~~

~~C. Price will be made at the appropriate contract unit price per each.~~

1.26 BID ITEM NO. 22: 12" TAP VALVE & SADDLE – LINE

- C. Price shall include all costs for labor, material, and equipment to install the 12-inch insertion valve on active line including but not limited to valve, valve box, extension stem (where needed), tapping existing line, excavation, backfill, granular backfill, pipe bedding, detection wire, mechanical joint restraints, and testing as specified on the Contract Drawings.
- D. Payment will be made at the appropriate contract unit price per each.

1.27 BID ITEM NO. 23: MOBILIZATION

- A. Payment for mobilization shall include full compensation to contractor for labor, materials, and equipment required for mobilization onto the job site and all other incidental work related to the project.
- B. Payment will be made at the appropriate lump sum price, with the lump sum not to exceed five percent (5%) of the subtotal of the Contract.