



Meeting Agenda

Capital Investment Committee

Thursday, July 16, 2020

4:00 PM

Board Room

The Capital Investment Committee Meeting will limit physical access in the meeting room due to current limitations on public gatherings. Accommodations have been made to ensure that the public is able to participate in the meeting. The public may participate in the following ways: • Watch the meeting on FranklinTV or the City of Franklin website. • Watch the live stream through the City of Franklin Facebook and YouTube accounts. • Call in to the conference meeting 1-312-626-6799, Meeting ID: 950 8971 4833, Password: 432011. Callers will be unmuted and given an opportunity to comment during the meeting at specific times. • Limited viewing will be available in the lobby of City Hall to watch the live video. • The public may email comments and questions prior to the start of the meeting to recorder@franklinton.gov to be read aloud. • City YouTube: <https://www.youtube.com/user/CityOfFranklin> • City Facebook Live: <https://www.facebook.com/CityOfFranklin> • City website: <https://www.franklinton.gov/franklin-tv>

CALL TO ORDER

MEETING PROCEDURE CHANGES

1. Consideration Of Resolution 2020-126, A Resolution Declaring That The Capital Investment Committee Shall Meet On July 16, 2020 And Conduct Its Essential Business By Electronic Means Rather Than Being Required To Gather A Quorum Of The Members Physically Present In The Same Location Because It Is Necessary To Protect The Health, Safety, And Welfare Of Tennesseans In Light Of The COVID-19 Outbreak.

Sponsors: Shauna Billingsley

APPROVAL OF MINUTES

2. Consideration Of Approval Of Minutes Of The May 28, 2020 Capital Investment Committee Meeting.

NEW BUSINESS

3. Consideration Of Sewer Availability For 1103 Holly Hill Drive (Map 089P, Parcel 04300).

Sponsors: Michelle Hatcher, Scott Andrews

4. Consideration To Deny Sewer Availability At 344 Franklin Road (Map 063, Parcel 02700).

Sponsors: Michelle Hatcher

5. Consideration Of Draft Change Order No. 4 To COF Contract No. 2017-0264 With Kiewit Infrastructure South Co, For The Water Reclamation Facility Modifications & Expansion Project.

Sponsors: Michelle Hatcher

6. Consideration Of **Draft** COF Contract No. 2020-0189, A Professional Services Agreement With ECS Southeast, LLP for On-Call Construction Engineering & Inspection And Testing Services.

Sponsors: Paul Holzen, Jonathan Marston

7. Consideration Of **Draft** COF Contract No. 2020-0190, A Professional Services Agreement With HDR Construction Control Company For On-Call Construction Engineering & Inspection And Testing Services.

Sponsors: Paul Holzen, Jonathan Marston

8. Consideration Of **Draft** Amendment No. 2 To COF Contract No. 2017-0171, A Professional Services Agreement With Volkert, Inc. For The Design Of the Franklin ITS Extension Project At A Lump Sum Cost Increase Of \$4,750.00.

Sponsors: Paul Holzen, Jonathan Marston, Adam Moser

9. Capital Projects Dashboard & Status Updates For July 2020.

Sponsors: Paul Holzen, Jonathan Marston

OTHER BUSINESS

ADJOURN

Anyone needing accommodations due to disabilities please contact the ADA Coordinator at 615-791-3277 at least 24 hours prior to the meeting.



File #: 20-0897

DATE: July 8, 2020

TO: Capital Investment Committee

FROM: Eric Stuckey, City Administrator
Shauna Billingsley, City Attorney

SUBJECT:

Consideration Of Resolution 2020-126, A Resolution Declaring That The Capital Investment Committee Shall Meet On July 16, 2020 And Conduct Its Essential Business By Electronic Means Rather Than Being Required To Gather A Quorum Of The Members Physically Present In The Same Location Because It Is Necessary To Protect The Health, Safety, And Welfare Of Tennesseans In Light Of The COVID-19 Outbreak.

PURPOSE:

The purpose of this memorandum is to provide information to the Franklin Board of Mayor and Aldermen (BOMA) concerning conducting the Board of Mayor and Aldermen by electronic means to limit physical contact for the health and safety of all citizens.

BACKGROUND/STAFF COMMENTS:

Due to the COVID-19 Outbreak citizens need to limit potential exposure to the virus by limiting contact with others. To support this effort the City of Franklin boards and commissions will meet electronically rather than gathering a quorum physically in the same location to conduct their essential business.

FINANCIAL IMPACT:

N/A

RECOMMENDATION:

Staff recommends approval of Resolution 2020-126.

RESOLUTION 2020-126

A RESOLUTION DECLARING THAT THE CAPITAL INVESTMENT COMMITTEE SHALL MEET ON JULY 16, 2020, AND CONDUCT ITS ESSENTIAL BUSINESS BY ELECTRONIC MEANS RATHER THAN BEING REQUIRED TO GATHER A QUORUM OF THE MEMBERS PHYSICALLY PRESENT IN THE SAME LOCATION BECAUSE IT IS NECESSARY TO PROTECT THE HEALTH, SAFETY, AND WELFARE OF TENNESSEANS IN LIGHT OF THE COVID-19 OUTBREAK

WHEREAS, Coronavirus Disease 2019 (COVID-19) is a severe acute respiratory disease that appears to occur through respiratory transmission, presents with similar symptoms to those of influenza, and can lead to serious illness or death, particularly in the case of older adults and persons with serious chronic medical conditions; and

WHEREAS, the Centers for Disease Control and Prevention has recommended that all states and territories implement aggressive measures to slow and contain transmission of COVID-19 in the United States; and

WHEREAS, on March 12, 2020, pursuant to the authority granted by Tenn. Code Ann. § 58-2-107, the Governor of Tennessee, Bill Lee, issued Executive Order No. 14, declaring a state of emergency to facilitate the response to COVID-19; and

WHEREAS, on March 13, 2020, the President of the United States, Donald J. Trump, declared a national state of emergency with respect to COVID-19; and

WHEREAS, on March 20, 2020, Mayor Ken Moore issued Executive Order No. 2020-01 Declaring a State of Emergency and Civil Emergency; and

WHEREAS, Governor Lee issued Executive Order No. 16, and later issued Executive Order No. 34 and Executive Order No. 51, allowing electronic meetings while continuing to function openly and transparently; and

WHEREAS, Mayor Moore issued Executive Orders No. 2020-03, No. 2020-05, and No. 2020-07, No. 2020-09, No. 2020-11, No. 2020-12, No. 2020-13, No. 2020-14, No. 2020-15, No. 2020-16, and No. 2020-17 continuing the Declaration of a State of Emergency and Civil Emergency; and

WHEREAS, the Board of Mayor and Aldermen Capital Investment Committee believe it is in the best interest of the City of Franklin to conduct the July 16, 2020, 4 p.m. Capital Investment Committee meeting by electronic means.

NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF MAYOR AND ALDERMEN CAPITAL INVESTMENT COMMITTEE OF THE CITY OF FRANKLIN, TENNESSEE, AS FOLLOWS:

The Capital Investment Committee meeting scheduled for July 16, 2020, at 4 p.m. shall be conducted by electronic means rather than requiring a quorum of the members of the Capital Investment Committee to attend in person to protect the health, safety, and welfare of Tennesseans in light of the COVID-19 Outbreak. Physical access in the meeting room will be limited. The public can view and participate in the meetings by watching the meeting live or later as a recording on FranklinTV, the City of Franklin website, the City of Franklin's Facebook page, and the City of Franklin's YouTube account. Specific dial-in and website links can be found on the City's website at:

<https://www.franklintn.gov/Home/Components/Calendar/Event/10156/1092>

IT IS SO RESOLVED AND DONE on this 16th day of July, 2020.

ATTEST:

By: _____
Eric S. Stuckey
City Administrator

CAPITAL INVESTMENT COMMITTEE:

By: _____
Brandy Blanton
Chair

Approved as to Form By:
Shauna R. Billingsley, City Attorney



File #: 20-0876

DATE: June 25, 2020

TO: Capital Investment Committee

FROM: Michelle Hatcher, Director of Water Management
Scott Andrews

SUBJECT:

Consideration Of Sewer Availability For 1103 Holly Hill Drive (Map 089P, Parcel 04300).

PURPOSE:

The purpose of this memorandum is to provide information to the Franklin Board of Mayor and Aldermen (BOMA) concerning a recommendation for denial of a request for sewer availability for the above referenced property.

BACKGROUND/STAFF COMMENTS:

Date of Request: 5/15/20.

SFUE's Requested: 1.

Domestic Water Meter Size(s): 3/4".

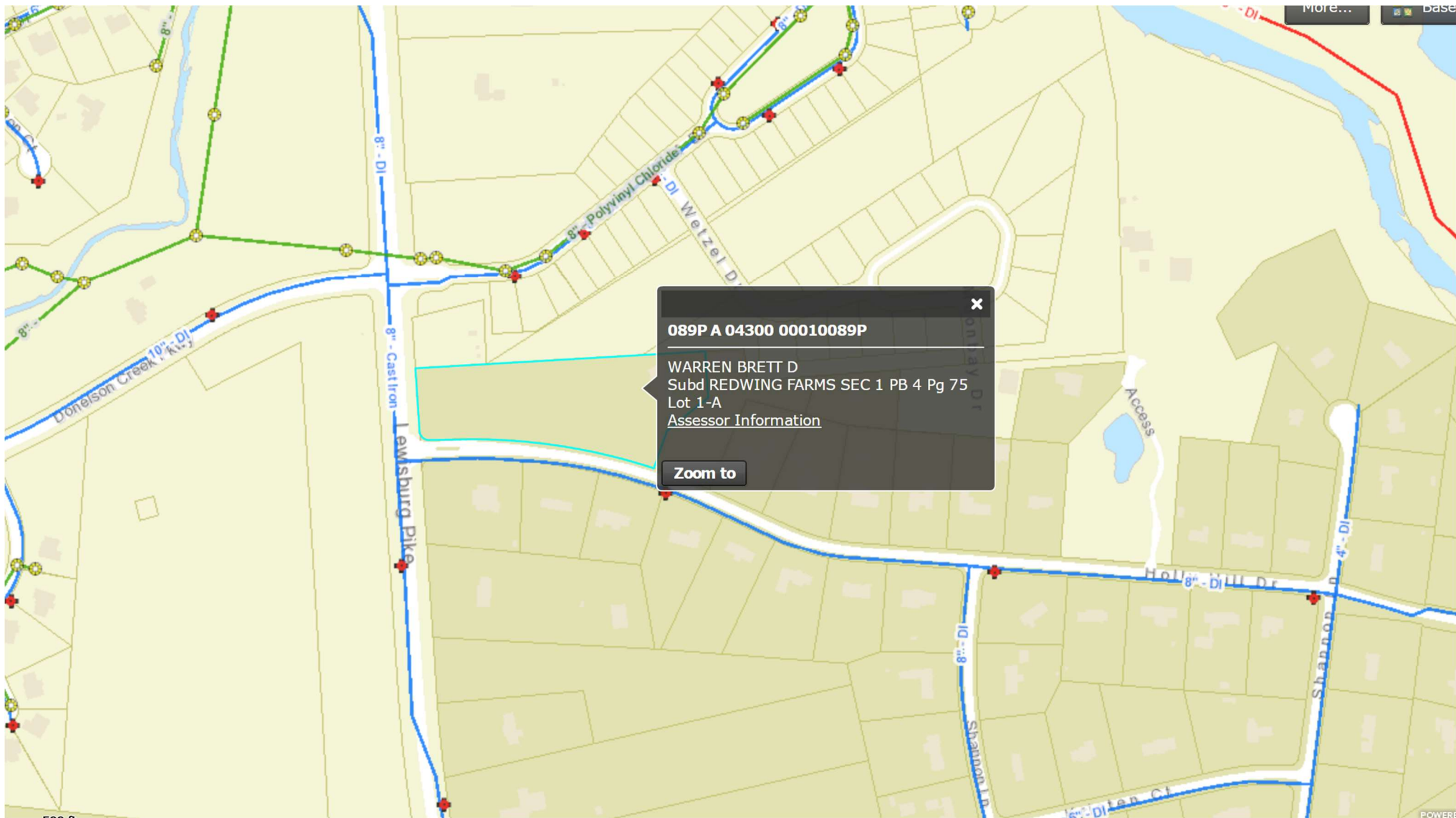
This property is located in the Redwing Farms subdivision, outside of the City limits and is currently not served by the City's collection system. The parcel is approximately 3.75 acres, containing a single family residence and a detached garage with an apartment. The apartment does not currently have a bathroom, but the property owners are hoping to add one. Serving this property with sanitary sewer would require an extension of a public main approximately 1,150 linear feet. This applicant has requested denial.

FINANCIAL IMPACT:

No financial impact.

RECOMMENDATION:

Staff recommends that this availability be denied.





Please fill in the following information & return this form with the site plan per directions below. Incomplete forms will result in the request being returned until all of the information is included. Refer to the attached memo for fees and additional information.

Type of Availability Requested:		CHECK ALL THAT APPLY: ☐ Water ☒ Sewer	
Project Name & Subdivision, Section, Lot #	Brett and Raquel Warren Red Wing Farms Subdivision section 1 lot 1a		
Map & Parcel(s) #	089p 43.00		
Property Address:	1103 holly hill drive		
City Project # (If Applicable)			
# of Dwelling Units (If Residential)	1 house		
Applicant's Name & Company	Brett Warren		
Applicant's Address	1103 Holly Hill Drive Franklin, TN. 37064		
Applicant's Email & Phone #	raquelwarrenfamily@gmail.com 615.243.2315		
Anticipated Water Meter Size(s) (see chart on pg. 3).	3/4 inch		
Water District:	Franklin		
Sewage Flow Calculations: Use the City of Franklin projected flow examples sheet –pg.4 350 gallons per day			
<i>use additional sheets as necessary</i>			
Anticipated sewage flows: Information Required for Sewer Service			
If County is requiring this request please indicate if you are requesting an approval or denial:	☒ DENY my Request ☐ APPROVE my request <i>*approval or denial is approved by BOMA, indication here is not a guarantee for approval or denial*</i>		

MUST SUBMIT A LOCATION MAP (FOR EX: GOOGLE MAP)

Email Application to: availability@franklinton.gov

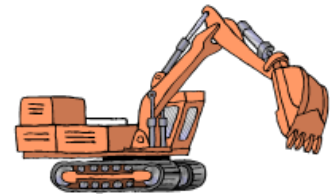
5/15/2020

For additional information or questions please call: 615-794-4554

Date Submitted: _____

MEMO

TO: Applicant
FROM: Water Management Department
DATE: May 2018
RE: Request for Water and/or Sewer Availability & Associated Costs



When considering development of a tract of land, one of the first steps a developer (or their design professional) should complete is the application for water and sewer availability. **Planned Unit Developments MUST have approved availability to be approved.**

The following items **SHALL** be included with a water and/or sewer availability request:

- Completed Application (ALL sections must be filled in)
- Project location map & Utility Plan (if available)
- Sewage Calculations (For Development projects only; Individual Single Family Homes are not required to submit these calculations).

Email Application to: availability@franklinton.gov

For additional information or questions please call: 615-794-4554

There is a 30 day maximum turnaround time for the requests. Unless your request requires Board of Mayor & Aldermen (BOMA) approval then applicant will be notified of the date of the BOMA meeting at which your request will be brought up.

THE AVAILABILITY IS GRANTED BASED ON THE FOLLOWING TIME PERIODS:

- Construction plans are to be prepared and **submitted within one year from the granting of availability.**
- Construction of the water and sanitary sewer **improvements shall begin within one and one-half (1 ½) years from the granting of availability.**

OTHER RELATED INFORMATION:

- Pump stations and force mains are not allowed if the development can be served by extension of gravity sewer.
 - Any necessary Pump Station or Force Main shall be subject to approval by Water Dept. Director.
- **No customer shall supply water service to more than one dwelling or premise from a single service line.**

PROPERTIES OUTSIDE OF CITY LIMITS:

Per **Resolution 2015-32**: Annexation shall be required as a condition of approval for all properties outside the City Limits whether within the City's Urban Growth Boundary, or not, in order to be granted sanitary sewer availability. Annexation shall occur at such time the property becomes contiguous to the City's corporate limits or as determined by the Board of Mayor and Alderman.

- Applicant shall be required to sign the Annexation Agreement **after** Availability Request is approved by BOMA, and **before** the approved letter is issued.

SINGLE FAMILY APPLICANTS:

- Not all portions of the application will apply, please mark NA to those sections.
- If a main line extension is necessary you will be required to submit a plan & profile set for review and approval.

MAIN LINE EXTENSION REQUIRED FOR SERVICE:

Plans shall be submitted for approval:

- Plans shall include: Site Layout & Location, Existing Utilities, Grading & EPSC, Plan & Profile, and Applicable Details.
- Include Final hydraulic analysis of the line/s. Use the City's standards for flow calculations.
- Water and Sewer Specifications are available on-line (in pdf form) for the convenience of the developer's engineer:
<http://www.franklinton.gov/government/engineering/development>

CURRENT SEPTIC SYSTEMS/APPLICANTS WITHIN THE COUNTY:

- Williamson County requires residents wishing to modify the septic system to first request availability with the City. You are required to complete the application and indicate whether you are requesting a denial or approval. (Indication does not guarantee final decision. BOMA must approve or deny your request).
- Septic System must be decommissioned per County standards:
<http://www.williamsoncounty-tn.gov/index.aspx?NID=126>

If you have any questions concerning this request, contact the City of Franklin Water Department at (615) 794-4554.

Tap Related Fees* *Does not include \$25 New Account Set up Fee*

Fee Description:	Applicable Utility	Fee Amount:
System Development Fee (SDF)	Water & Sewer	See Charts Below (based on meter size)
Access Fee	Water & Sewer	See Charts Below (based on meter size)
Effluent Disposal Fee (EDF)	Sewer	See Charts Below (based on meter size)
Tap Fee	Water & Sewer	See Charts Below (based on meter size)
Irrigation Fee	Water & Reclaim Water	See Charts Below (based on meter size)
Fire Sprinkler Fee (SDF)	Water (fire)	\$500 per diameter inch of connection line

Effective March 1, 2008, the fees and installation costs are as follows and are paid to the Building & Neighborhood Services Dept. 615-794-7012

WATER * City of Franklin Wat							
Meter Size	SFUE	GPM	SDF	Access Fees	Irrigation Meter ¹	Tap Existing ²	City making Tap ³
¾"	1	12.5	\$903	\$1,186	\$3,150	\$315	\$756
1"	13	50	\$3,612	\$4,746	\$4,725	\$374	\$897
1 ½"	30	120	\$8,619	\$11,390	\$6,300	\$656	\$1,444
2"	40	160	\$11,558	\$15,187	\$7,875	\$1,362	\$2,223
3"	88	350	\$25,284	\$33,222	\$9,450	\$1,581	\$3,654
4"	125	500	\$36,120	\$47,460	\$11,025	\$2,668	\$5,492
6"	300	1200	\$86,688	\$113,904	\$12,600	\$4,723	\$7,387
8"	375	1500	\$108,360	\$142,380	\$14,175	\$10,293	\$14,110

SEWER (Fees are based on water meter size regardless of water district)							
Meter Size	SFUE	GPM	SDF	Access Fee	Effluent Disposal ⁴	Tap Existing ²	City Making Tap ³
¾"	1	12.5	\$1,444	\$2,100	\$450	\$263	\$1,240
1"	13	50	\$5,775	\$8,400	\$1,800	\$263	\$1,240
1 ½"	30	120	\$13,860	\$20,160	\$4,320	\$263	\$1,240
2"	40	160	\$18,480	\$26,880	\$5,760	\$263	\$1,240
3"	88	350	\$40,425	\$58,800	\$12,600	\$263	\$1,240
4"	125	500	\$57,750	\$84,000	\$18,000	\$263	\$1,240
6"	300	1200	\$138,600	\$201,600	\$43,200	\$263	\$1,240
8"	375	1500	\$173,250	\$252,000	\$54,000	\$263	\$1,240

1- Irrigation Fees Include Meter Fee & \$25 Application Fee Only

3- City Installs Tap & Meter

2- Contractor Installs Tap & Meter – Subject to Addnl' Inspections

4- Fee Goes to Establishing Effluent Water System; paid with all Sewer Services

*** All Fees shall be paid prior to the issuance of a Building Permit or Utility Inspection, whichever occurs first. ***

Private Fire Hydrant and Sprinkler Systems – The SDF for connection of private fire hydrants and sprinkler system lines to the City of Franklin's (COF) lines shall be **\$500 per inch diameter of connection** to the City's lines. Radio-read meters will be required on all private fire hydrant and sprinkler systems.

UTILITY PERMIT RELATED FEES: **PAID WITH PERMIT, NOT WITH AVAILABILITY REQUEST:**

Only applicable if extending the water, sewer or reclaim water main lines.

Fee Description	Applicable Utility	Fee Amount
Plan Review Fee	Water, Sewer & Reclaim Water	\$300 Water; \$300 Sewer & \$300 reclaim Water
Inspection fees:	Fee Rate	
Water Main Line	\$1.25/LF Water (minimum \$ 1,000)	
Sewer Gravity Main Line	\$2.00/LF (minimum \$1,000)	
Sewer Force Main Line	\$1.50/LF (minimum \$1,000)	
Reclaim Water	\$1.25/LF (minimum \$1,000)	

Checks are made payable to the City of Franklin. Please indicate what the payment is for on the check.

3 Projected Flow Examples

Drainage Facility	Flow in GPD	Design Units
Apartments -One Bedroom	250	per unit
Apartment -Two Bedroom	300	per unit
Apartment -Three Bedroom	350	per unit
Mobile Home Parks	300	per mobile home space
Single Family Dwelling	350	per unit
Assembly Hall (No Food Service)	2	per seat
Beauty Shop, Styling Salon	200	per station
Bowling Alleys (no food service)	75	per lane
Car Wash -(stand alone)	500	Per bay
Child Care Center	10	Per child and adult
Churches (small)	5	per sanctuary seat
Churches (large with kitchen)	7	per sanctuary seat
Country Clubs	50	per member
Dance Halls (No Food Service)	2	per person
Doctors/Dentists	75	per doctor
	20	per employee
	10	per patient
Drive-In Theaters	5	per car space
Factories (no showers)	25	per employee per 8-hour shift
Factories (with showers)	35	per employee -per 8-hour shift
Hospitals (no residents) (with food service)	300	per bed
Hotels	130	per unit
Institutions (residents) (with food service)	100	per person
Laundries (coin-operated)	400	per standard size machine
Nursing and Rest Homes (with food service)	200	per patient
	100	per resident employee
	50	per non-resident employee
Office Buildings	25	per employee
Office/warehouse space	0.1	per square foot
Retail Store	20	per employee
Restaurant -Ordinary (not 24-hour)	35	per seat
Restaurant -24-Hour	50	per seat
Restaurant -Banquet Rooms	5	per seat
Restaurant -Along Freeway	100	per seat
Restaurant -Tavern (very little food service)	35	per seat
Restaurant -Curb Service (drive-in)	50	per car space
Service Stations	1000	Per fuel island
Schools -Elementary (with food service)	15	per pupil
Schools -High and Junior High (with food service)	20	per pupil
Shopping Centers (no food service or laundries)	0.2	per sq. ft of floor space
Swimming Pool	10	per swimmer
Theaters, auditorium type	5	per seat
Youth and Recreation Camps (w/food service)	50	per person



File #: 20-0894

DATE: July 6, 2020

TO: Capital Investment Committee

FROM: Michelle Hatcher, Director of Water Management

SUBJECT:

Consideration To Deny Sewer Availability At 344 Franklin Road (Map 063, Parcel 02700).

PURPOSE:

The purpose of this memorandum is to provide information to the Franklin Board of Mayor and Aldermen (BOMA) concerning a recommendation for denial of a request for sewer availability for the above referenced property.

BACKGROUND/STAFF COMMENTS:

Date of Request: 10/23/19.

SFUE's Requested: 1.

Domestic Water Meter Size(s): ¾".

This property is located inside the City limits and is a non-profit organization. Serving this property with sanitary sewer would require the applicant to extend a sanitary sewer main over 700 feet at a rough cost of approximately \$250,000. This is not financially feasible for this non-profit organization, which also owns 340 Franklin Road, an availability that was denied sanitary sewer December 10, 2019, for the same reason. This applicant has requested denial.

FINANCIAL IMPACT:

None.

RECOMMENDATION:

Staff recommends this availability request be denied.



Type of Availability Requested: **CHECK ALL THAT APPLY:** ☐ Water ☒ Sewer

Sewage Flow Calculations: Use the City of Franklin projected flow examples sheet –pg.4

350/unit

(note added by Scott Andrews: I spoke with Lauren Morgan for clarification, this is a sober living home with 6 residents and 3 bathrooms)

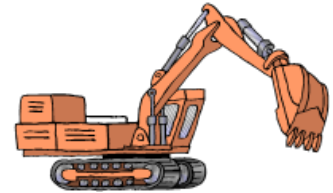
use additional sheets as necessary

MUST SUBMIT A LOCATION MAP (FOR EX: GOOGLE MAP)

1

MEMO

TO: Applicant
FROM: Water Management Department
DATE: May 2018
RE: Request for Water and/or Sewer Availability & Associated Costs



When considering development of a tract of land, one of the first steps a developer (or their design professional) should complete is the application for water and sewer availability. **Planned Unit Developments MUST have approved availability to be approved.**

The following items **SHALL** be included with a water and/or sewer availability request:

- Completed Application (ALL sections must be filled in)
- Project location map & Utility Plan (if available)
- Sewage Calculations (For Development projects only; Individual Single Family Homes are not required to submit these calculations).

Email Application to: availability@franklinton.gov

For additional information or questions please call: 615-794-4554

There is a 30 day maximum turnaround time for the requests. Unless your request requires Board of Mayor & Aldermen (BOMA) approval then applicant will be notified of the date of the BOMA meeting at which your request will be brought up.

THE AVAILABILITY IS GRANTED BASED ON THE FOLLOWING TIME PERIODS:

- Construction plans are to be prepared and **submitted within one year from the granting of availability.**
- Construction of the water and sanitary sewer **improvements shall begin within one and one-half (1 ½) years from the granting of availability.**

OTHER RELATED INFORMATION:

- Pump stations and force mains are not allowed if the development can be served by extension of gravity sewer.
 - Any necessary Pump Station or Force Main shall be subject to approval by Water Dept. Director.
- **No customer shall supply water service to more than one dwelling or premise from a single service line.**

PROPERTIES OUTSIDE OF CITY LIMITS:

Per **Resolution 2015-32**: Annexation shall be required as a condition of approval for all properties outside the City Limits whether within the City's Urban Growth Boundary, or not, in order to be granted sanitary sewer availability. Annexation shall occur at such time the property becomes contiguous to the City's corporate limits or as determined by the Board of Mayor and Alderman.

- Applicant shall be required to sign the Annexation Agreement **after** Availability Request is approved by BOMA, and **before** the approved letter is issued.

SINGLE FAMILY APPLICANTS:

- Not all portions of the application will apply, please mark NA to those sections.
- If a main line extension is necessary you will be required to submit a plan & profile set for review and approval.

MAIN LINE EXTENSION REQUIRED FOR SERVICE:

Plans shall be submitted for approval:

- Plans shall include: Site Layout & Location, Existing Utilities, Grading & EPSC, Plan & Profile, and Applicable Details.
- Include Final hydraulic analysis of the line/s. Use the City's standards for flow calculations.
- Water and Sewer Specifications are available on-line (in pdf form) for the convenience of the developer's engineer:
<http://www.franklinton.gov/government/engineering/development>

CURRENT SEPTIC SYSTEMS/APPLICANTS WITHIN THE COUNTY:

- Williamson County requires residents wishing to modify the septic system to first request availability with the City. You are required to complete the application and indicate whether you are requesting a denial or approval. (Indication does not guarantee final decision. BOMA must approve or deny your request).
- Septic System must be decommissioned per County standards:
<http://www.williamsoncounty-tn.gov/index.aspx?NID=126>

If you have any questions concerning this request, contact the City of Franklin Water Department at (615) 794-4554.

Tap Related Fees* *Does not include \$25 New Account Set up Fee*

Fee Description:	Applicable Utility	Fee Amount:
System Development Fee (SDF)	Water & Sewer	See Charts Below (based on meter size)
Access Fee	Water & Sewer	See Charts Below (based on meter size)
Effluent Disposal Fee (EDF)	Sewer	See Charts Below (based on meter size)
Tap Fee	Water & Sewer	See Charts Below (based on meter size)
Irrigation Fee	Water & Reclaim Water	See Charts Below (based on meter size)
Fire Sprinkler Fee (SDF)	Water (fire)	\$500 per diameter inch of connection line

Effective March 1, 2008, the fees and installation costs are as follows and are paid to the Building & Neighborhood Services Dept. 615-794-7012

WATER * City of Franklin Wat							
Meter Size	SFUE	GPM	SDF	Access Fees	Irrigation Meter ¹	Tap Existing ²	City making Tap ³
¾"	1	12.5	\$903	\$1,186	\$3,150	\$315	\$756
1"	13	50	\$3,612	\$4,746	\$4,725	\$374	\$897
1 ½"	30	120	\$8,619	\$11,390	\$6,300	\$656	\$1,444
2"	40	160	\$11,558	\$15,187	\$7,875	\$1,362	\$2,223
3"	88	350	\$25,284	\$33,222	\$9,450	\$1,581	\$3,654
4"	125	500	\$36,120	\$47,460	\$11,025	\$2,668	\$5,492
6"	300	1200	\$86,688	\$113,904	\$12,600	\$4,723	\$7,387
8"	375	1500	\$108,360	\$142,380	\$14,175	\$10,293	\$14,110

SEWER (Fees are based on water meter size regardless of water district)							
Meter Size	SFUE	GPM	SDF	Access Fee	Effluent Disposal ⁴	Tap Existing ²	City Making Tap ³
¾"	1	12.5	\$1,444	\$2,100	\$450	\$263	\$1,240
1"	13	50	\$5,775	\$8,400	\$1,800	\$263	\$1,240
1 ½"	30	120	\$13,860	\$20,160	\$4,320	\$263	\$1,240
2"	40	160	\$18,480	\$26,880	\$5,760	\$263	\$1,240
3"	88	350	\$40,425	\$58,800	\$12,600	\$263	\$1,240
4"	125	500	\$57,750	\$84,000	\$18,000	\$263	\$1,240
6"	300	1200	\$138,600	\$201,600	\$43,200	\$263	\$1,240
8"	375	1500	\$173,250	\$252,000	\$54,000	\$263	\$1,240

1- Irrigation Fees Include Meter Fee & \$25 Application Fee Only

3- City Installs Tap & Meter

2- Contractor Installs Tap & Meter – Subject to Addnl' Inspections

4- Fee Goes to Establishing Effluent Water System; paid with all Sewer Services

*** All Fees shall be paid prior to the issuance of a Building Permit or Utility Inspection, whichever occurs first. ***

Private Fire Hydrant and Sprinkler Systems – The SDF for connection of private fire hydrants and sprinkler system lines to the City of Franklin's (COF) lines shall be **\$500 per inch diameter of connection** to the City's lines. Radio-read meters will be required on all private fire hydrant and sprinkler systems.

UTILITY PERMIT RELATED FEES: **PAID WITH PERMIT, NOT WITH AVAILABILITY REQUEST:**

Only applicable if extending the water, sewer or reclaim water main lines.

Fee Description	Applicable Utility	Fee Amount
Plan Review Fee	Water, Sewer & Reclaim Water	\$300 Water; \$300 Sewer & \$300 reclaim Water
Inspection fees:	Fee Rate	
Water Main Line	\$1.25/LF Water (minimum \$ 1,000)	
Sewer Gravity Main Line	\$2.00/LF (minimum \$1,000)	
Sewer Force Main Line	\$1.50/LF (minimum \$1,000)	
Reclaim Water	\$1.25/LF (minimum \$1,000)	

Checks are made payable to the City of Franklin. Please indicate what the payment is for on the check.

3 Projected Flow Examples

Drainage Facility	Flow in GPD	Design Units
Apartments -One Bedroom	250	per unit
Apartment -Two Bedroom	300	per unit
Apartment -Three Bedroom	350	per unit
Mobile Home Parks	300	per mobile home space
Single Family Dwelling	350	per unit
Assembly Hall (No Food Service)	2	per seat
Beauty Shop, Styling Salon	200	per station
Bowling Alleys (no food service)	75	per lane
Car Wash -(stand alone)	500	Per bay
Child Care Center	10	Per child and adult
Churches (small)	5	per sanctuary seat
Churches (large with kitchen)	7	per sanctuary seat
Country Clubs	50	per member
Dance Halls (No Food Service)	2	per person
Doctors/Dentists	75	per doctor
	20	per employee
	10	per patient
Drive-In Theaters	5	per car space
Factories (no showers)	25	per employee per 8-hour shift
Factories (with showers)	35	per employee -per 8-hour shift
Hospitals (no residents) (with food service)	300	per bed
Hotels	130	per unit
Institutions (residents) (with food service)	100	per person
Laundries (coin-operated)	400	per standard size machine
Nursing and Rest Homes (with food service)	200	per patient
	100	per resident employee
	50	per non-resident employee
Office Buildings	25	per employee
Office/warehouse space	0.1	per square foot
Retail Store	20	per employee
Restaurant -Ordinary (not 24-hour)	35	per seat
Restaurant -24-Hour	50	per seat
Restaurant -Banquet Rooms	5	per seat
Restaurant -Along Freeway	100	per seat
Restaurant -Tavern (very little food service)	35	per seat
Restaurant -Curb Service (drive-in)	50	per car space
Service Stations	1000	Per fuel island
Schools -Elementary (with food service)	15	per pupil
Schools -High and Junior High (with food service)	20	per pupil
Shopping Centers (no food service or laundries)	0.2	per sq. ft of floor space
Swimming Pool	10	per swimmer
Theaters, auditorium type	5	per seat
Youth and Recreation Camps (w/food service)	50	per person





File #: 20-0810

DATE: May 29, 2020
TO: Capital Investment Committee
FROM: Michelle Hatcher, Director of Water Management

SUBJECT:

Consideration Of Draft Change Order No. 4 To COF Contract No. 2017-0264 With Kiewit Infrastructure South Co, For The Water Reclamation Facility Modifications & Expansion Project.

PURPOSE:

The purpose of this memorandum is to provide information to the Franklin Board of Mayor and Aldermen (BOMA) concerning Change Order No. 4 for the Water Reclamation Facility Modifications & Expansion Project.

BACKGROUND/STAFF COMMENTS:

The Board of Mayor and Alderman passed a resolution to award a contract on July 10, 2018 for the Water Reclamation Facility Modifications & Expansion Project to Kiewit Infrastructure South Co. (Kiewit). The amount of the contract entered in to by the City and Kiewit was for \$132,890,000.00 (which included an Owner's contingency amount of \$4,000,000.00). The project specifications have a substantial completion date of February 20, 2022 and a final completion date of May 26, 2022.

During the course of the project to date, the need for various changes to Kiewit's scope became apparent to include work not captured in the original contract, changes due to alternative items of equipment, or to realize savings to the City. Those changes are memorialized in Construction Change Authorizations (CCAs), Request For Proposals (RFPs), and Change Proposals (CPs) issued by CDM Smith and the City, and formalized in this Change Order No. 4.

The attached Change Order No. 4 reflects these changes that have been encountered to date and are summarized below:

- *CCA 6: FACP at headworks
- *CA 18.1: BNR 2 aerator new gearbox
- *CCA 13: Sump at solids elevator pit
- *CCA 21: Yard piping elevation revisions
- *CP 14: Delete drywell at solids
- *CCA 27: Delete flared castings, add vortex breakers at headworks
- *CCA 7 (rev): Additional valve tagging
- *CCA 30: Wall mounted FDC at Solids
- *CCA 31: Deletion of one automatic sampler

- *CCA 23: Additional 125hp reclaimed water pump
- *CCA 11: Alum facility revisions
- *CCA 37: Monorail 1 revision
- *CP 6: Access road over excavation
- *CP19: Duct bank reroute
- *CP 20: Exterior drops at 20-inch FEQ tie-in manhole
- *CP 16: Additional stone at digesters
- *CP 23: Solids floor drain revisions
- *CCA 36: Demo slab at old influent pump station
- *CCA 46: Aerator 2C removal & inspection
- *CCA 10: UV structure modifications
- *CP 11: Power for motor operated valves
- *CP 12: Progressive cavity pump redesign
- *CCA 19: Solids floor and wall penetration revisions
- *CP 26: Increase to Allowance Item 8
- *CCA 43: Rebuild ex. MCC-RWP-A

FINANCIAL IMPACT:

This Change Order No. 4 provides for a net change order increase of \$688,948.25 to the contract terms. In total, there is \$3,311,051.75 remaining in the Owner's contingency.

RECOMMENDATION:

Staff recommends approval of this Change Order No. 4 to the contract with Kiewit Infrastructure South.

CONSTRUCTION CHANGE AUTHORIZATION

TO: Mr. Steve Davis
Project Manager
Kiewit Water Facilities South
4405 International Blvd., NW,
Suite C-101
Norcross, Georgia 30093
(770) 940-8044

FROM: CDM Smith
210 25th Ave. N.
Suite 1102
Nashville, TN 37203
(615) 320-3161

DATE: June 10, 2019

PROJECT: City of Franklin, Tennessee
Franklin WRF Modifications & Expansion Project

CCA NUMBER: 011 **CDM SMITH PROJ. NO.:** 14915-231666

SUBJECT: Alum Storage & Feed Facility **CITY PROJECT NO.:** 2017-0264

REFERENCE: (See Below)

DESCRIPTION: The Alum Storage & Feed Facility design requires revision due to a conflict with an existing pipeline as shown on the attached drawings and summarized below by affected drawing;

Sh. C-21

- Relocate easternmost building line app. 15' to the west and shift new asphalt drive.
- Rotate/realign the feed pump room as shown with double doors facing west.
- Reroute 3" PLW-PVC and tie-ins to match new feed pump room location.
- Add new 5' concrete walkway as shown.
- Relocate tie-in point for new 2" PW-CU and shift location of new Chemical Junction Box.
- Remove existing abandoned 24" line to min. 12" beyond the limits of structural fill material (not indicated on this drawing). Plug or cap open ends per Note 11-B, Sh. C-1.

Sh. C-31

- Install new concrete end wall, headwall and 12" RCP at the approximate midpoint between the Alum Storage & Feed Facility and Electrical Building.

Sh. S-37

- Rotate/realign the feed pump room as shown in the plan view.

Sh. M-41

- Revise layout of discharge piping and Alum Feed Pump skids as indicated.
- Reroute 3" PLW-PVC and tie-ins as indicated.

- Reroute 1 1/2" CPVC SCH 80 feed line as indicated.

Sh. H-16

- Relocate air conditioning unit AL-WAC-1, temperature switch HT and condensate dry well locations as shown.

Sh. P-12

- Relocate water heater AL-EWH-1, plumbing piping layout and appurtenances as shown.
- Revise tempered water piping to loop configuration per rev. Water Riser Diagram 1.
- Add recirculation pump AL-RP-1, Taco, Inc. model 003-PNP or equal.

Sh. E-73

- Revise layout of ground grid, locations of Alum Feed Pump control panels, panels PP-AL, LP-AL and transformer TR-AL as shown.
- Add new circuitry for recirculation pump AL-RP-1.
- Table ALUM STORAGE TANK T-1810 (*INSTRUMENTATION TABULATION) has been added to revised drawing to clarify requirements shown on Sh. I-56.

Sh. E-74

- Revise light fixture layout as indicated.

CDM SMITH:

By: _____

Date: _____


6/25/20

CONTRACTOR:

By: _____

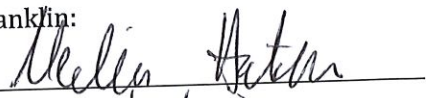
Date: _____

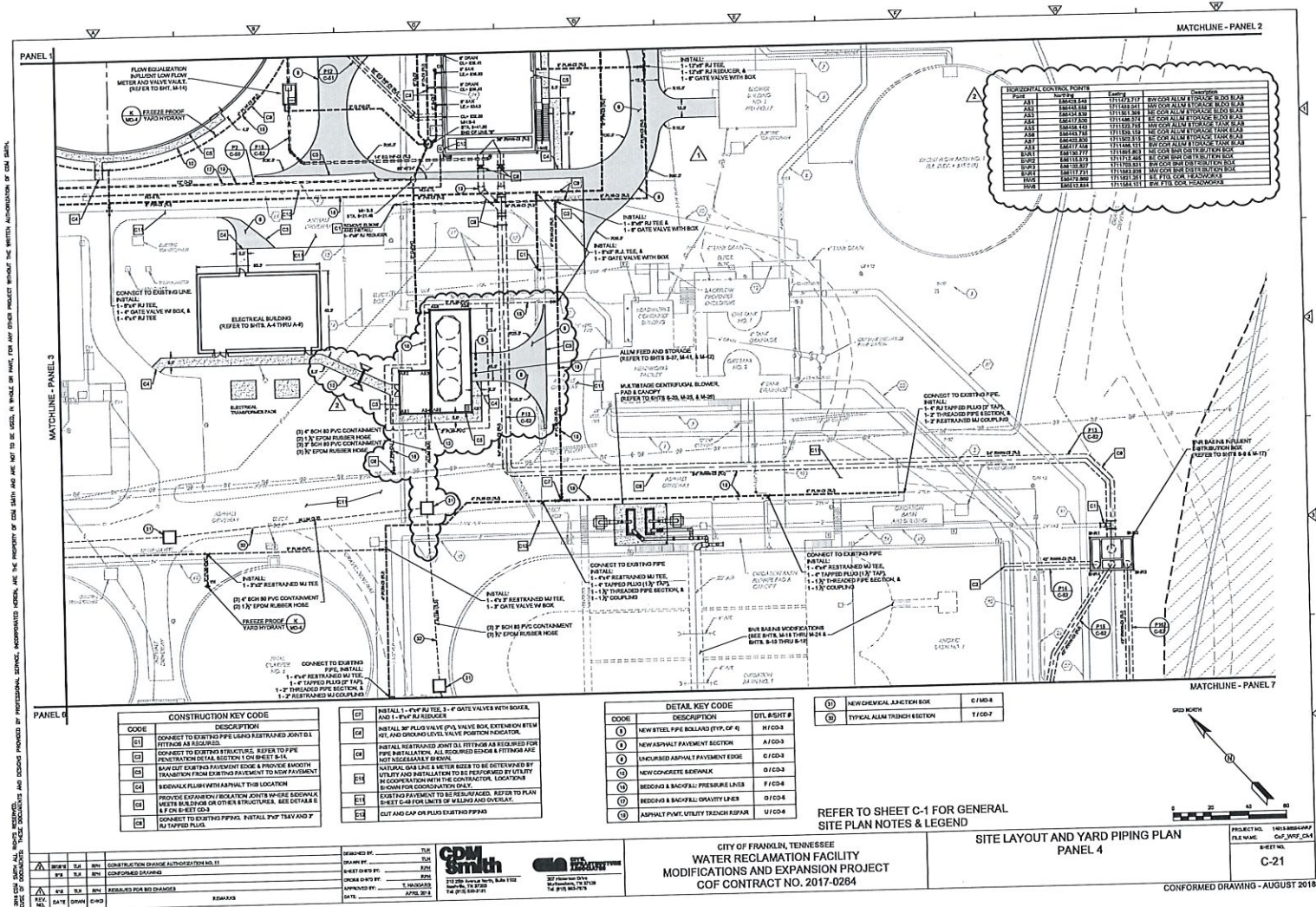

6/25/20

City of Franklin:

By: _____

Date: _____


6/25/20



HORIZONTAL CONTROL POINTS	
Point	Notes
1	111101.117
2	111101.117
3	111101.117
4	111101.117
5	111101.117
6	111101.117
7	111101.117
8	111101.117
9	111101.117
10	111101.117
11	111101.117
12	111101.117
13	111101.117
14	111101.117
15	111101.117
16	111101.117
17	111101.117
18	111101.117
19	111101.117
20	111101.117
21	111101.117
22	111101.117
23	111101.117
24	111101.117
25	111101.117
26	111101.117
27	111101.117
28	111101.117
29	111101.117
30	111101.117
31	111101.117
32	111101.117
33	111101.117
34	111101.117
35	111101.117
36	111101.117
37	111101.117
38	111101.117
39	111101.117
40	111101.117
41	111101.117
42	111101.117
43	111101.117
44	111101.117
45	111101.117
46	111101.117
47	111101.117
48	111101.117
49	111101.117
50	111101.117
51	111101.117
52	111101.117
53	111101.117
54	111101.117
55	111101.117
56	111101.117
57	111101.117
58	111101.117
59	111101.117
60	111101.117
61	111101.117
62	111101.117
63	111101.117
64	111101.117
65	111101.117
66	111101.117
67	111101.117
68	111101.117
69	111101.117
70	111101.117
71	111101.117
72	111101.117
73	111101.117
74	111101.117
75	111101.117
76	111101.117
77	111101.117
78	111101.117
79	111101.117
80	111101.117
81	111101.117
82	111101.117
83	111101.117
84	111101.117
85	111101.117
86	111101.117
87	111101.117
88	111101.117
89	111101.117
90	111101.117
91	111101.117
92	111101.117
93	111101.117
94	111101.117
95	111101.117
96	111101.117
97	111101.117
98	111101.117
99	111101.117
100	111101.117

CONSTRUCTION KEY CODE	
CODE	DESCRIPTION
01	CONNECT TO EXISTING PIPE (SEE DETAIL SECTION 1 ON SHEET 1-1)
02	CONNECT TO EXISTING STRUCTURE, REFER TO PIPE PENETRATION DETAIL SECTION 1 ON SHEET 1-1
03	NEW CONCRETE PAVEMENT EDGE, PROVIDE ANCHOR TRANSITION FROM EXISTING PAVEMENT TO NEW PAVEMENT
04	REBAR/FLUSH WITH ASPHALT THIS LOCATION
05	PROVIDE EXPANSION JOINTS WITH WEDGE BARS AND BUSHING OR OTHER STRUCTURES, SEE DETAIL 1-1 ON SHEET 1-1
06	CONNECT TO EXISTING PIPING, INSTALL 2" X 1/2" TAPPED PIPES

DETAIL KEY CODE	
CODE	DESCRIPTION
01	NEW STEEL PIPE BOLLARD (TYP. OF 6)
02	NEW ASPHALT PAVEMENT SECTION
03	UNPAVED ASPHALT PAVEMENT EDGE
04	NEW CONCRETE SIDEWALK
05	REBAR/FLUSH WITH ASPHALT THIS LOCATION
06	EXPANSION JOINT WITH WEDGE BARS AND BUSHING OR OTHER STRUCTURES, SEE DETAIL 1-1 ON SHEET 1-1

DETAIL KEY CODE	
CODE	DESCRIPTION
01	NEW STEEL PIPE BOLLARD (TYP. OF 6)
02	NEW ASPHALT PAVEMENT SECTION
03	UNPAVED ASPHALT PAVEMENT EDGE
04	NEW CONCRETE SIDEWALK
05	REBAR/FLUSH WITH ASPHALT THIS LOCATION
06	EXPANSION JOINT WITH WEDGE BARS AND BUSHING OR OTHER STRUCTURES, SEE DETAIL 1-1 ON SHEET 1-1

DETAIL KEY CODE	
CODE	DESCRIPTION
01	NEW STEEL PIPE BOLLARD (TYP. OF 6)
02	NEW ASPHALT PAVEMENT SECTION
03	UNPAVED ASPHALT PAVEMENT EDGE
04	NEW CONCRETE SIDEWALK
05	REBAR/FLUSH WITH ASPHALT THIS LOCATION
06	EXPANSION JOINT WITH WEDGE BARS AND BUSHING OR OTHER STRUCTURES, SEE DETAIL 1-1 ON SHEET 1-1

DETAIL KEY CODE	
CODE	DESCRIPTION
01	NEW STEEL PIPE BOLLARD (TYP. OF 6)
02	NEW ASPHALT PAVEMENT SECTION
03	UNPAVED ASPHALT PAVEMENT EDGE
04	NEW CONCRETE SIDEWALK
05	REBAR/FLUSH WITH ASPHALT THIS LOCATION
06	EXPANSION JOINT WITH WEDGE BARS AND BUSHING OR OTHER STRUCTURES, SEE DETAIL 1-1 ON SHEET 1-1

REVISIONS

NO.	DATE	BY	CHKD.	DESCRIPTION
1	07/15/2017	SM	SM	CONSTRUCTION CHANGE AUTHORIZATION NO. 11
2	07/15/2017	SM	SM	CONFORMED DRAWING
3	07/15/2017	SM	SM	REBAR/FLUSH WITH ASPHALT THIS LOCATION
4	07/15/2017	SM	SM	EXPANSION JOINT WITH WEDGE BARS AND BUSHING OR OTHER STRUCTURES, SEE DETAIL 1-1 ON SHEET 1-1

DESIGNED BY: SM

DRAWN BY: SM

CHECKED BY: SM

DATE: 07/15/2017

CDM Smith

211 2nd Ave. N., Suite 1000
Franklin, TN 37050
Tel: (615) 595-7771

CDM Smith

201 Franklin Drive
Franklin, TN 37050
Tel: (615) 595-7771

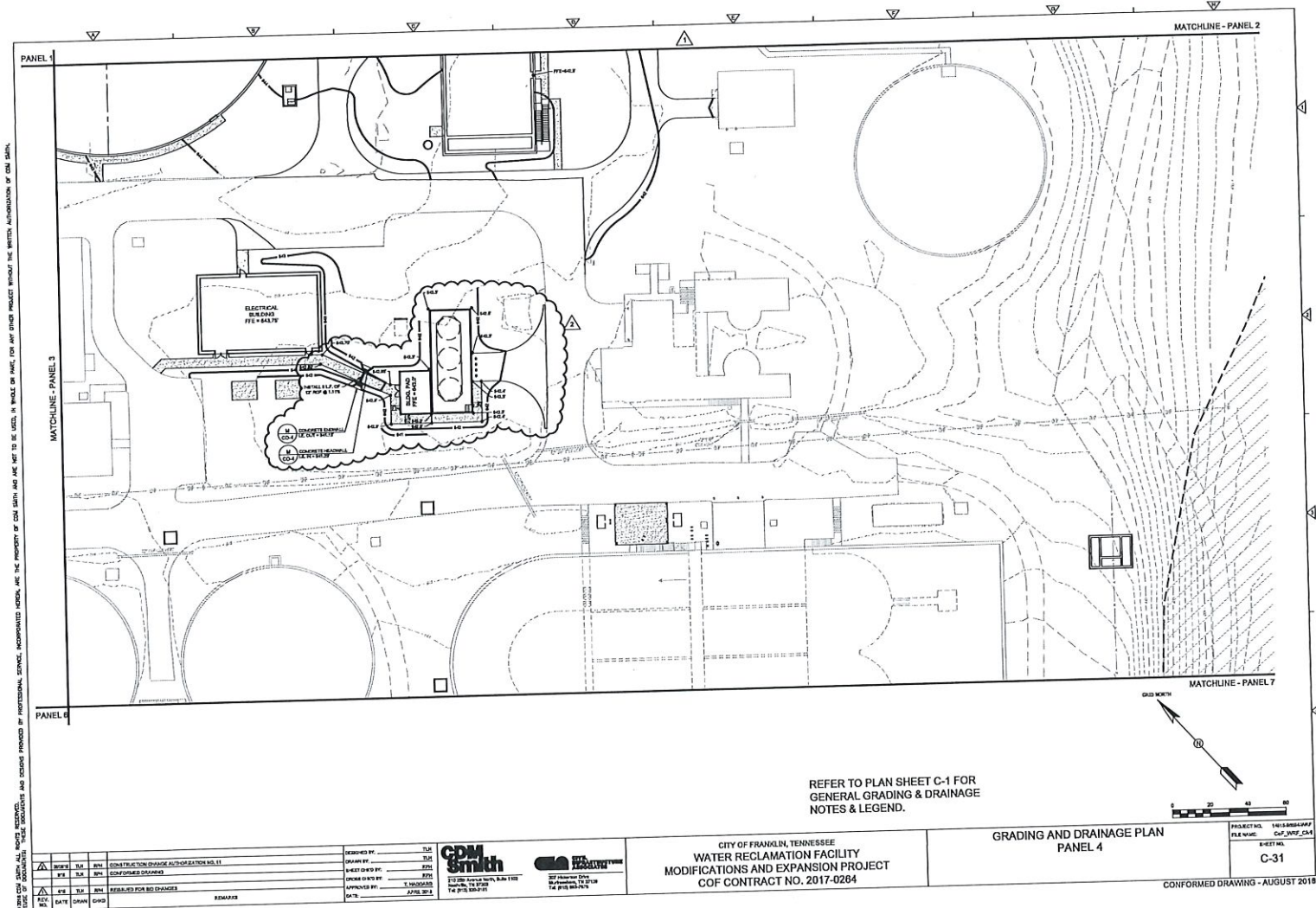
CITY OF FRANKLIN, TENNESSEE
WATER RECLAMATION FACILITY
MODIFICATIONS AND EXPANSION PROJECT
COF CONTRACT NO. 2017-0284

SITE LAYOUT AND YARD PIPING PLAN
PANEL 4

PROJECT NO. 1503380000
FILE NAME: Cof_WRF_C41

C-21

CONFORMED DRAWING - AUGUST 2018



REFER TO PLAN SHEET C-1 FOR
GENERAL GRADING & DRAINAGE
NOTES & LEGEND.



NO.	DATE	BY	CHKD.	DESCRIPTION
1	08/15/2018	CDM	SM	CONSTRUCTION CHANGE AUTHORIZATION NO. 11
2	08/15/2018	CDM	SM	CONFORMED CHANGES
3	08/15/2018	CDM	SM	PREPARED FOR BID CHANGES

DESIGNED BY: JLS
 DRAWN BY: JLS
 CHECKED BY: JLS
 APPROVED BY: E. HADGARD
 DATE: APRIL 30, 2018

CDM Smith
 21000 Spring Lake Blvd, Suite 100
 Memphis, TN 38125
 Tel: 901.884.7171

CDM
 2000 Riverchase Circle
 Birmingham, AL 35244
 Tel: 205.988.7676

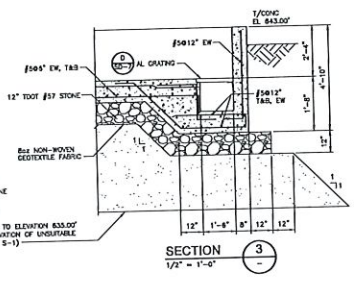
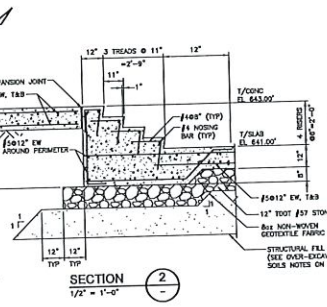
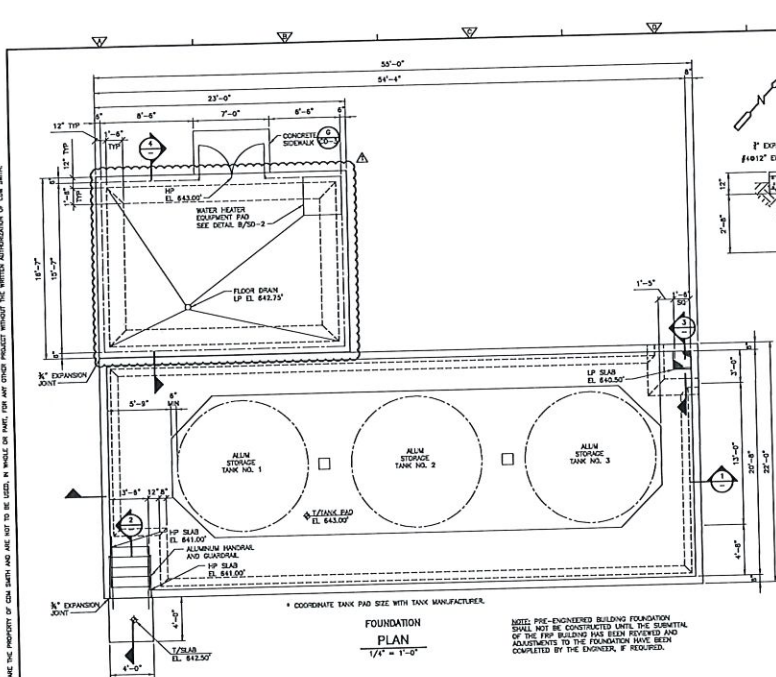
CITY OF FRANKLIN, TENNESSEE
 WATER RECLAMATION FACILITY
 MODIFICATIONS AND EXPANSION PROJECT
 COF CONTRACT NO. 2017-0264

GRADING AND DRAINAGE PLAN
 PANEL 4

PROJECT NO. 181038000000
 FILE NAME: Cof_2017_0264
 SHEET NO. C-31

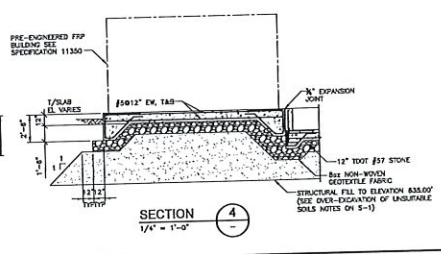
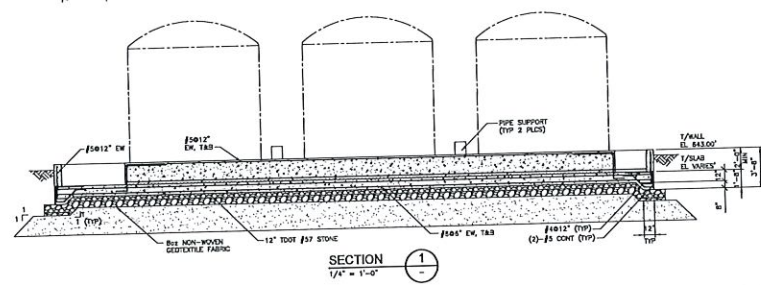
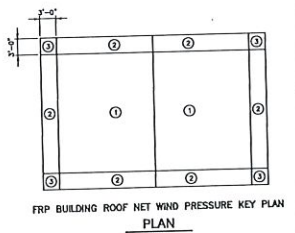
CONFORMED DRAWING - AUGUST 2018

PROJECT: FRANKLIN WRF, ALUMINUM STORAGE TANKS
 DRAWING: FOUNDATION PLAN, SECTION 1
 DATE: 08/20/2018
 DRAWN BY: J. B. SMITH
 CHECKED BY: J. B. SMITH
 PROJECT ENGINEER: J. B. SMITH
 PROJECT LOCATION: FRANKLIN, TENNESSEE
 PROJECT NUMBER: 2017-0284
 SHEET NUMBER: S-37
 CONFORMED DRAWING - AUGUST 2018



EFFECTIVE WIND AREA (SQ. FT.)	PRESSURE (+) / SECTION (-)				
	ZONE 1	ZONE 2	ZONE 3	ZONE 4	ZONE 5
10	-28.7	-28.7	-28.7	-28.7	-28.7
20	-27.8	-27.8	-27.8	-27.8	-27.8
30	-26.9	-26.9	-26.9	-26.9	-26.9
40	-26.0	-26.0	-26.0	-26.0	-26.0
50	-25.1	-25.1	-25.1	-25.1	-25.1
60	-24.2	-24.2	-24.2	-24.2	-24.2
70	-23.3	-23.3	-23.3	-23.3	-23.3
80	-22.4	-22.4	-22.4	-22.4	-22.4
90	-21.5	-21.5	-21.5	-21.5	-21.5
100	-20.6	-20.6	-20.6	-20.6	-20.6
110	-19.7	-19.7	-19.7	-19.7	-19.7
120	-18.8	-18.8	-18.8	-18.8	-18.8
130	-17.9	-17.9	-17.9	-17.9	-17.9
140	-17.0	-17.0	-17.0	-17.0	-17.0
150	-16.1	-16.1	-16.1	-16.1	-16.1
160	-15.2	-15.2	-15.2	-15.2	-15.2
170	-14.3	-14.3	-14.3	-14.3	-14.3
180	-13.4	-13.4	-13.4	-13.4	-13.4
190	-12.5	-12.5	-12.5	-12.5	-12.5
200	-11.6	-11.6	-11.6	-11.6	-11.6

* FOR EFFECTIVE WIND AREAS BETWEEN THOSE GIVEN, VALUE MAY BE INTERPOLATED. OTHERWISE USE THE VALUE ASSOCIATED WITH THE LOWER EFFECTIVE WIND AREA.



REV.	DATE	BY	CHKD.	DESCRIPTION
1	08/20/2018	J. B. SMITH	J. B. SMITH	CONSTRUCTION CHANGE ALLOCATION (S-1)
2	08/20/2018	J. B. SMITH	J. B. SMITH	CONFORMED DRAWING

CDM Smith
 10000 N. 100th Ave.
 Suite 100
 Minneapolis, MN 55438
 Phone: 763.773.7000
 Fax: 763.773.7001
 Email: info@cdmsmith.com

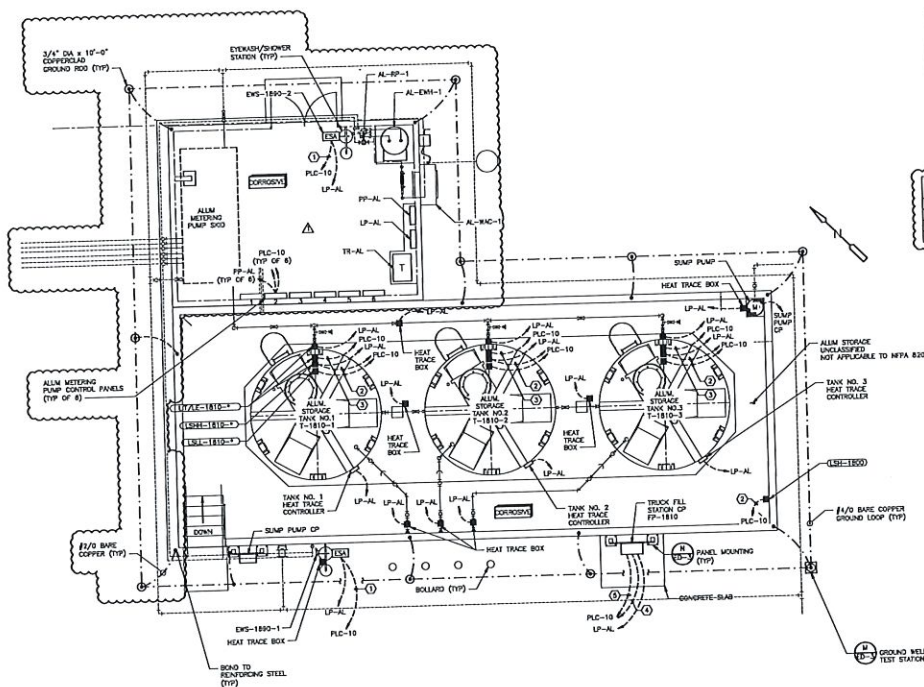
CITY OF FRANKLIN, TENNESSEE
 FRANKLIN WRF
 MODIFICATIONS AND EXPANSION PROJECT
 COF CONTRACT NO. 2017-0284

ALUM STORAGE AND FEED SYSTEM
 FOUNDATION PLAN, SECTION AND NOTES

PROJECT NO: 14015-0004-WRF
 FILE NAME: 0037ASPL.DWG
 SHEET NO.
 S-37

CONFORMED DRAWING - AUGUST 2018

THIS DRAWING IS THE PROPERTY OF CDM SMITH AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CDM SMITH. ANY REUSE OR MODIFICATION OF THIS DRAWING WITHOUT THE WRITTEN AUTHORIZATION OF CDM SMITH IS PROHIBITED. THE USER OF THIS DRAWING SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR COMPLYING WITH ALL APPLICABLE REGULATIONS. THE USER OF THIS DRAWING SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR COMPLYING WITH ALL APPLICABLE REGULATIONS. THE USER OF THIS DRAWING SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR COMPLYING WITH ALL APPLICABLE REGULATIONS.



CONDUIT AND WIRE LEGEND (NUMBERS REFERENCE THIS SHEET ONLY)	
NO.	DESCRIPTION
①	3/4\"
②	3/4\"
③	3/4\"
④	3/4\"
⑤	1\"

ALUM STORAGE TANK T-1810 (INSTRUMENTATION TABULATION)			
NO.	LP/AL-1810	LSH-1810	LSL-1810
1	-1	-1	-1
2	-2	-2	-2
3	-3	-3	-3

PLAN

1/4\" = 1'-0"

NO.	DATE	BY	CHKD	APPD	REMARKS
1	4/13	RHC	S.P.		CONSTRUCTION CHANGE AUTHORIZATION (CCA)
2	5/18	RHC	S.P.		CONFIRMED DRAWING

DESIGNED BY: P. COOPER
 DRAWN BY: S. SUTTER
 CHECKED BY: S. SUTTER
 INCHES: 1/4\" = 1'-0\"
 APPROVED BY: S. SUTTER
 DATE: 07/28/2018

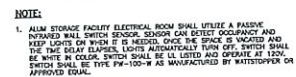
CDM Smith

CITY OF FRANKLIN, TENNESSEE
 FRANKLIN WRF
 MODIFICATIONS AND EXPANSION PROJECT
 COF CONTRACT NO. 2017-0264

ALUM STORAGE
 POWER PLAN

PROJECT NO: 14315-0004-WRF
 FILE NAME: E0704ALP.DWG
 SHEET NO: E-73

CONFORMED DRAWING - AUGUST 2018



ALL INFORMATION CONTAINED
HEREIN IS UNCLASSIFIED
DATE 08-14-2010 BY 60322 UCBAW

PROJECT NO 14815-04584-V0
FILE NAME: E074MPL.DWG
SHEET NO.
E-74



Kiewit Infrastructure South Co.
4800 North Point Parkway, Suite 100
Alpharetta, GA 30022

March 09, 2020

To: Attn: Mr. Dan Harris

CCA-KIEWIT-00031.00

CDM Smith, Inc.
210 25th Avenue North
Suite 1102
Nashville, TN 37203

Reference: Franklin WRF Modifications & Expansion Project
COF Contract No. 2017-0264

Subject: Construction Change Authorization No. 011 – Alum Storage & Feed Facility Design Change

Dear Mr. Harris,

Kiewit is hereby submitting a cost proposal for CCA No. 011 – Alum Storage & Feed Facility Design Change in the amount of **Sixty Five Thousand Eight Hundred Ninety Nine Dollars (\$65,899.)**

This proposal is intended to capture the design changes to the Alum Storage & Feed Facility shown on revised **Sh. C-21, Sh. S-37, Sh. M-41, Sh. H-16, Sh. P-12, Sh. E-73, Sh. E-74** as well as changes the additional made to **Sh. S-31**, noted in **CCA No. 011.1**.

Time and material work completed on the cutting and capping of the **6" WAS line** that was found to be under the Alum Containment footing as well as the removal of an **abandoned 24" line** under the Alum Building are also included in this proposal.

If you have any questions, please do not hesitate to contact me at (678) 794-2121.

Sincerely,

A handwritten signature in black ink, appearing to read 'Steve Davis', written over a horizontal line.

Steve Davis
Project Manager

cc: File
Michelle Hatcher



CCA NO.: 011 Alum Storage & Feed Facility

PREPARED BY: Henry A.

DESCRIPTION	QTY	UNIT	MH Per Unit	Total MH	DIRECT LABOR		INDIRECT LABOR		MATERIAL		CONST. EQUIPMENT		SUBCONTRACT		OTHER		TOTAL AMOUNT
					Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	
Sh. C-21 Revisions																	
Additional PCV S80 2" PIPE SOC:	33.0	LF															
LABOR	33.0	LF															
EXCAVATE/LAY/BACKFILL 2" PVC @ 0.65 MH/LF	1.0	EA	0.65	18.2	\$ 61.04	\$ 1,107.88											\$ 1,107.88
Foreman	1.0	EA	0.65	18.2	\$ 48.67	\$ 881.65											\$ 881.65
Pipelayer	1.0	EA	0.65	18.2	\$ 36.13	\$ 655.76											\$ 655.76
Laborer	1.0	EA	0.65	18.2	\$ 39.88	\$ 723.48											\$ 723.48
Excavator Operator	1.0	EA	0.65	18.2	\$ 39.88	\$ 723.48											\$ 723.48
MATERIALS																	
PVC S80 2" PIPE SOC	33.0	LF							\$ 1.12	\$ 36.96							\$ 36.96
PCVC S80 2" COUP SOC	2.0	Ea							\$ 1.99	\$ 3.98							\$ 3.98
#57 TXDOT Stone (Pipe Bedding)	9.0	TN							\$ 16.00	\$ 144.00							\$ 144.00
Detection Tape	33.0	LF							\$ 1.00	\$ 33.00							\$ 33.00
CONSTRUCTION EQUIPMENT																	
CAT 314D LCR Excavator	16.5	HR									\$ 74.36	\$ 1,228.94					\$ 1,228.94
Rammax	16.5	HR									\$ 28.55	\$ 471.08					\$ 471.08
Additional 3" PLW-PVC:	28.0	LF															
LABOR	28.0	LF															
EXCAVATE/LAY/BACKFILL 3" PVC @ 0.50 MH/LF	1.0	EA	0.50	14.0	\$ 61.04	\$ 854.56											\$ 854.56
Foreman	1.0	EA	0.50	14.0	\$ 48.67	\$ 679.96											\$ 679.96
Pipelayer	1.0	EA	0.50	14.0	\$ 36.13	\$ 505.82											\$ 505.82
Laborer	1.0	EA	0.50	14.0	\$ 39.88	\$ 558.04											\$ 558.04
Excavator Operator	1.0	EA	0.50	14.0	\$ 39.88	\$ 558.04											\$ 558.04
MATERIALS																	
3" PVC SCH 80 Pipe	30.0	LF							\$ 2.34	\$ 70.20							\$ 70.20
3" PVC SCH 80 ELL 90	2.0	EA							\$ 4.20	\$ 8.40							\$ 8.40
3" PVC SCH 80 COUPLING	2.0	EA							\$ 5.61	\$ 11.22							\$ 11.22
#57 TXDOT Stone (Pipe Bedding)	9.0	TN							\$ 18.00	\$ 162.00							\$ 162.00
Detection Tape	28.0	LF							\$ 1.00	\$ 28.00							\$ 28.00
CONSTRUCTION EQUIPMENT																	
CAT 314D LCR Excavator	14.0	HR									\$ 74.36	\$ 1,041.04					\$ 1,041.04
Rammax	14.0	HR									\$ 28.55	\$ 399.70					\$ 399.70
5" Concrete Walkway:	605.0	SF															
LABOR	605.0	SF															
PLACE/ROLL/FINISH STONE @ 0.65 MH/CY	7.5	CY															
Foreman	1.0	EA	0.65	4.9	\$ 61.04	\$ 297.57											\$ 297.57
Loader/Reel Operator	2.0	EA	0.65	9.8	\$ 39.88	\$ 388.64											\$ 388.64
Laborer	1.0	EA	0.65	4.9	\$ 36.13	\$ 176.13											\$ 176.13
ERECT & STRIP FORMS @ 0.22 MH/SF	92.0	SF															
Foreman	1.0	EA	0.22	20.2	\$ 61.04	\$ 1,235.45											\$ 1,235.45
Crew (2 Carpenters)	2.0	EA	0.22	40.6	\$ 62.51	\$ 2,125.60											\$ 2,125.60
Laborer	1.0	EA	0.22	20.2	\$ 36.13	\$ 731.27											\$ 731.27
PLACE/FINISH/CURE @ 1 MH/CY	10.0	CY															
Foreman	1.0	EA	1.0	10.0	\$ 61.04	\$ 610.40											\$ 610.40
Concrete Finisher	2.0	EA	1.0	20.0	\$ 52.51	\$ 1,050.20											\$ 1,050.20
Laborer	1.0	EA	1.0	10.0	\$ 36.13	\$ 361.30											\$ 361.30
BROOM FINISH @ 0.05 MH/SF	605.0	SF															
Concrete Finisher	2.0	EA	0.05	60.5	\$ 52.51	\$ 3,176.88											\$ 3,176.88



CCA NO.: 011 Alum Storage & Feed Facility

PREPARED BY: Henry A.

DESCRIPTION	QTY	UNIT	MH Per Unit	Total MH	DIRECT LABOR		INDIRECT LABOR		MATERIAL		CONST. EQUIPMENT		SUBCONTRACT		OTHER		TOTAL AMOUNT
					Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	
MATERIALS																	
#57 TXDOT Stone	15.0	TN							\$ 18.00	\$ 270.00							\$ 270.00
6x8 #10 WWM	805.0	SF							\$ 0.50	\$ 302.50							\$ 302.50
Class 3000 PSI Concrete	10.0	CY							\$ 105.00	\$ 1,050.00							\$ 1,050.00
Form STS	82.0	SF							\$ 2.00	\$ 164.00							\$ 164.00
CONST. EQUIPMENT																	
CAT CS-56 Roller	5.0	HR									\$ 66.67	\$ 333.35					\$ 333.35
CAT 950M Loader	5.0	HR									\$ 91.68	\$ 458.40					\$ 458.40
SUPPLIES																	
Purchase Formwork (Small hand set forms)	169.0	SF													\$ 3.00	\$ 507.00	\$ 507.00
Remove existing abandoned 24" line & Cut and Cap 6" WAB Line (T&M Dated 7/13/19):																	
LABOR																	
Foreman	1.0	EA	1.0	35.0	\$ 61.04	\$ 2,136.40											\$ 2,136.40
Excavator Operator	1.0	EA	1.0	35.0	\$ 39.86	\$ 1,395.10											\$ 1,395.10
Pipelayer	1.0	EA	1.0	35.0	\$ 48.57	\$ 1,689.95											\$ 1,689.95
Laborer	1.0	EA	1.0	35.0	\$ 36.13	\$ 1,264.55											\$ 1,264.55
Laborer - Pothole	1.0	EA	1.0	12.0	\$ 36.13	\$ 433.56											\$ 433.56
LABOR @ Alum																	
Foreman	1.0	EA	1.0	40.0	\$ 61.04	\$ 2,441.60											\$ 2,441.60
Excavator Operator	1.0	EA	1.0	40.0	\$ 39.86	\$ 1,594.40											\$ 1,594.40
Pipelayer	1.0	EA	1.0	40.0	\$ 36.13	\$ 1,445.20											\$ 1,445.20
Laborer	1.0	EA	1.0	40.0	\$ 36.13	\$ 1,445.20											\$ 1,445.20
MATERIALS																	
6" DI MJ Cap, Megalug and Accessories	1.0	EA							\$ 277.29	\$ 277.29							\$ 277.29
Grout to cover cap	24.0	BAG							\$ 10.50	\$ 252.00							\$ 252.00
#57 Stone for road backfill	37.0	TN							\$ 18.00	\$ 666.00							\$ 666.00
CONSTRUCTION EQUIPMENT																	
CAT 335F L CR Excavator	10.0	HR									\$ 165.77	\$ 1,657.70					\$ 1,657.70
SUBCONTRACT																	
Hydrovac Sub	6.0	HR											\$ 230.00	\$ 1,380.00			\$ 1,380.00
Sh. C-31 Addition of Concrete Headwall & RCP																	
LABOR																	
EXCAVATE/LAY/BACKFILL RCP @ 1 MH/LF	9.0	LF															\$ 549.38
Foreman	1.0	EA	1.0	9.0	\$ 61.04	\$ 549.38											\$ 549.38
Pipelayer	1.0	EA	1.0	9.0	\$ 48.57	\$ 437.13											\$ 437.13
Laborer	1.0	EA	1.0	9.0	\$ 36.13	\$ 325.17											\$ 325.17
Excavator/Loader Operator	2.0	EA	1.0	18.0	\$ 39.86	\$ 717.48											\$ 717.48
INSTALL CONC HEADWALL/ENDWALL @ 2 MH/EA																	
Foreman	2.0	EA															\$ 244.16
Pipelayer	1.0	EA	2.0	4.0	\$ 61.04	\$ 244.16											\$ 244.16
Laborer	1.0	EA	2.0	4.0	\$ 48.57	\$ 194.28											\$ 194.28
Excavator/Loader Operator	1.0	EA	2.0	4.0	\$ 36.13	\$ 144.52											\$ 144.52
MATERIALS																	
#57 TXDOT Stone (Pipe Bedding)	5.0	TN							\$ 18.00	\$ 90.00							\$ 90.00
12" RCP & Headwalls (Oldcastle)	1.0	LS							\$ 1,170.16	\$ 1,170.16							\$ 1,170.16
Detection Tape	8.0	LF							\$ 1.00	\$ 8.00							\$ 8.00

Kiewit Infrastructure South Co.
4800 North Point Parkway, Suite 100
Alpharetta, GA 30022



DATE: 03-06-2020

CCA NO.: 011 Alum Storage & Feed Facility

PREPARED BY: Henry A.

DESCRIPTION	QTY	UNIT	MH Per Unit	Total MH	DIRECT LABOR		INDIRECT LABOR		MATERIAL		CONST. EQUIPMENT		SUBCONTRACT		OTHER		TOTAL AMOUNT
					Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	
CONSTRUCTION EQUIPMENT																	
CAT 314D LCR Excavator	13.0	HR									\$ 74.30	\$ 968.68					\$ 968.68
CAT 950M Loader	13.0	HR									\$ 91.68	\$ 1,191.84					\$ 1,191.84
Wacker RT825C	13.0	HR									\$ 37.75	\$ 490.75					\$ 490.75
Sh. S-37 Rotate/realian Feed Pump Room																	
No Cost Change																	
Sh. M-41 ALUM Feed Line Revisions																	
No Cost Change																	
Sh. H-16 and P-12 HVAC & Plumbing Revisions																	
SUBCONTRACT																	
John Bouchard & Sons Co.	1.0	LS											\$ 6,950.00	\$ 6,950.00			\$ 6,950.00
Sh. E-73 and E-74 ALUM Electrical Revisions																	
No Cost Change																	
**Construction Equipment Ownership & Operating Costs are based on Blue Book FHWA Rates.																	
OTHER																	
STS - small tools, consumables, safety equip, (5% of direct labor, plus 9.75% sales tax Formula = Total Direct Labor Subtotal * .05 * 1.0925)	707	MHR				\$ -		\$ -		\$ -		\$ -		\$ -	\$ 2.68	\$ 1,805.79	\$ 1,805.79
TAX: (9.75% of Material, Equipment, Other)										\$416.42		\$803.15				\$225.50	\$ 1,445.07
BOND (2% of total)																	
SUBTOTAL				707		\$ 32,907.40		\$ -		\$ 8,203.13		\$ 9,040.63		\$ 8,330.00		\$ 2,638.29	\$ 58,019.45
MARKUP %						15.00%		15.00%		15.00%		15.00%		15.00%		15.00%	\$ 7,889.92
SUBTOTALS WITH MARKUPS APPLIED						\$37,843.51				\$8,983.60		\$10,396.72		\$8,746.50		\$2,919.03	\$65,889.36
BOND																	\$65,889.00
TOTAL																	

Franklin WRF Modifications & Expansion Project
City of Franklin, TN
Job No.: 103925

Seller: Mechanical Pipe & Supply
Purchase Agreement No.: PA103925-004
Contract ID No.: PXXXXXX-XXX

PURCHASE AGREEMENT

Company No. 1044
Job No. 103925

THIS AGREEMENT, made this 28th Day of May 2019, by and between Kiewit Infrastructure South Co., 4405 International Blvd., NW, Suite C-101, Norcross, GA 30093, 678-794-2121, hereinafter referred to as the ("Buyer") and Mechanical Pipe and Supply, Address: 3062 Sidco Drive, Nashville, TN 37204, Telephone No.: 615-242-3281, hereinafter referred to as the ("Seller").

WITNESSETH:

In consideration of the mutual covenants herein contained, the parties agree as follows:

1) Seller agrees to furnish to Buyer the materials set out in paragraph number 2 hereof necessary in the construction of Franklin WRF Modifications & Expansion Project for The City of Franklin, TN. located at 135 Claude Yates Drive, Franklin, TN 37064, in accordance with the prices and under the terms and conditions herein set out.

2) It is agreed that the materials to be furnished by Seller and the price to be paid therefore by Buyer shall be as follows:

PVC Pipe
Small Bore Carbon Steel Pipe
Copper Pipe
Expansion Joints
EPDM Hose

[See Attachment A – Scope of Supply]

Terms: 2% 10th or Net 100% at 30 days after receipt by Buyer of Seller's invoice or delivery of materials, whichever is later. Prices stated herein shall include, and Seller shall assume liability for, taxes now or hereafter imposed exclusively on Seller by any federal, state, provincial or local governmental authority on Seller relating to Seller's property, income, withholding and employment tax obligations, and Seller's consumption, use or storage of supplies, materials or equipment. Unless otherwise provided for herein, prices do not include sales or use taxes required to be collected by Seller in connection with the sale of materials to Buyer pursuant to this Agreement. Any sales or use taxes required by applicable laws to be collected by Buyer shall be separately stated on Seller's invoices. Buyer shall have the right to make, from time to time, changes to packing, testing, destinations, specifications, designs and delivery schedules (postponements only). Seller shall immediately notify Buyer of any increases or decreases in cost caused by such changes and an equitable adjustment in prices or other terms hereof shall be agreed upon in a written amendment to this Agreement. In addition, if the contract or subcontract of Buyer with the owner or general contractor requires any approvals or releases, including approval of the supplier of the labor, material or services which are the subject of this Agreement, then this Agreement is conditioned upon the receipt of such approval or release from the appropriate entity.

3) Shipping Terms: FOB **[See Attachment A – Scope of Supply]**

4) Seller shall promptly deliver said materials at such time and to such place as Buyer shall from time to time specify, or within the following time or times: **[See Attachment A – Scope of Supply]**

5) No payment by Buyer under this Agreement shall be construed to be an acceptance of improper, defective or unsuitable materials, nor shall it be construed as evidence of the performance of any obligation of Seller specified in this Agreement.

6) All materials furnished under this Agreement shall be first class in every respect, shall be satisfactory to Buyer and shall conform strictly with the drawings and specifications and all modifications thereof on file in Buyer's office at the site of

Attachment A-1

PVC Couplers

Pipe Used

89	PVC S80 2" ADAPT SOC x FIPT	4	EA	\$	5.75	\$	23.00
90	PVC S80 2" ADAPT SOC x MIPT	24	EA	\$	4.39	\$	105.36
91	PVC S80 2" COUP SOC	50	EA	\$	1.99	\$	99.50
92	PVC S80 2" ELL 45 SOC	2	EA	\$	4.39	\$	8.78
93	PVC S80 2" ELL 90 SOC	60	EA	\$	1.60	\$	96.00
94	PVC S80 2" FLNG SOC	3	EA	\$	4.18	\$	12.54
95	PVC S80 2" FLNG VAN STONE	54	EA	\$	4.18	\$	225.72
96	PVC S80 2" PIPE SOC	593	LF	\$	1.12	\$	664.16
97	PVC S80 2" TEE SOC	11	EA	\$	5.69	\$	62.59
98	PVC S80 2" UNION SOC FKM	25	EA	\$	7.25	\$	181.25
99	PVC S80 3" COUP SOC	30	EA	\$	5.61	\$	168.30
100	PVC S80 3" ELL 45 SOC	2	EA	\$	9.73	\$	19.46
101	PVC S80 3" ELL 90 SOC	16	EA	\$	4.20	\$	67.20
102	PVC S80 3" FLNG SOC	26	EA	\$	6.97	\$	181.22
103	PVC S80 3" FLNG VAN STONE	44	EA	\$	6.97	\$	306.68
104	PVC S80 3" PIPE SOC	1392	LF	\$	2.34	\$	3,257.28
105	PVC S80 3" TEE SOC	12	EA	\$	7.72	\$	92.64
106	PVC S80 3" UNION SOC FKM	7	EA	\$	13.50	\$	94.50
107	PVC S80 3"x 1 1/2" RED BUSH (SPIG x SOC)	2	EA	\$	6.27	\$	12.54
108	PVC S80 3"x 1" RED BUSH (SPIG x SOC)	3	EA	\$	6.27	\$	18.81
109	PVC S80 3"x 2" RED COUP (SOC x SOC)	1	EA	\$	8.51	\$	8.51
110	PVC S80 3"x 2" RED TEE SOC	3	EA	\$	7.04	\$	21.12
111	PVC S80 4" COUP SOC	46	EA	\$	7.03	\$	323.38
112	PVC S80 4" ELL 90 SOC	2	EA	\$	6.39	\$	12.78
113	PVC S80 4" FLNG SOC	3	EA	\$	8.81	\$	26.43
114	PVC S80 4" FLNG VAN STONE	4	EA	\$	8.81	\$	35.24
115	PVC S80 4" PIPE SOC	3136	LF	\$	3.36	\$	10,536.96
116	PVC S80 6" COUP SOC	28	EA	\$	15.13	\$	423.64
		Total				\$82,686.47	

Approximate Total

\$82,686.47

Attachment A-1

PVC Pipe & Fittings
Mech Pipe & Supply Contract

88	PVC S80 12" PIPE SOC	LF	\$	19.76	\$	-
89	PVC S80 2" ADAPT SOC x FIPT	EA	\$	5.75	\$	-
90	PVC S80 2" ADAPT SOC x MIPT	EA	\$	4.39	\$	-
91	PVC S80 2" COUP SOC	EA	\$	1.99	\$	-
92	PVC S80 2" ELL 45 SOC	EA	\$	4.39	\$	-
93	PVC S80 2" ELL 90 SOC	EA	\$	1.60	\$	-
94	PVC S80 2" FLNG SOC	EA	\$	4.18	\$	-
95	PVC S80 2" FLNG VAN STONE	EA	\$	4.18	\$	-
96	PVC S80 2" PIPE SOC	LF	\$	1.12	\$	-
97	PVC S80 2" TEE SOC	EA	\$	5.69	\$	-
98	PVC S80 2" UNION SOC FKM	EA	\$	7.25	\$	-
99	PVC S80 3" COUP SOC	EA	\$	5.61	\$	-
100	PVC S80 3" ELL 45 SOC	EA	\$	9.73	\$	-
101	PVC S80 3" ELL 90 SOC	EA	\$	4.20	\$	-
102	PVC S80 3" FLNG SOC	EA	\$	6.97	\$	-
103	PVC S80 3" FLNG VAN STONE	EA	\$	6.97	\$	-
104	PVC S80 3" PIPE SOC	LF	\$	2.34	\$	-
105	PVC S80 3" TEE SOC	EA	\$	7.72	\$	-
106	PVC S80 3" UNION SOC FKM	EA	\$	13.50	\$	-
107	PVC S80 3"x 1 1/2" RED BUSH (SPIG x SOC)	EA	\$	6.27	\$	-
108	PVC S80 3"x 1" RED BUSH (SPIG x SOC)	EA	\$	6.27	\$	-
109	PVC S80 3"x 2" RED COUP (SOC x SOC)	EA	\$	8.51	\$	-
110	PVC S80 3"x 2" RED TEE SOC	EA	\$	7.04	\$	-
111	PVC S80 4" COUP SOC	EA	\$	7.03	\$	-
112	PVC S80 4" ELL 90 SOC	EA	\$	6.39	\$	-
113	PVC S80 4" FLNG SOC	EA	\$	8.81	\$	-
114	PVC S80 4" FLNG VAN STONE	EA	\$	8.81	\$	-
115	PVC S80 4" PIPE SOC	LF	\$	3.36	\$	-
116	PVC S80 6" COUP SOC	EA	\$	15.13	\$	-
Total					\$0.00	

Approximate Total	\$0.00
-------------------	--------

Attachment A

Pipe Bedding

Schedule of Values

Item	Description	Approx. Quantity	Unit of Measure	Unit Price	Total
1	TDOT 57 Stone		TN	\$ 18.00	
2	TDOT Grade D		TN	\$ 12.50	
3	Class A3 Rip Rap		TN	\$ 21.00	
4	Surge Stone		TN	\$ 13.00	
5	Class A1 Rip Rap		TN	\$ 21.00	
6	2" to 3" Stone		TN	\$ 17.75	
7	TDOT #4 Stone		TN	\$ 17.75	
	Approximate Contract Total (without Taxes)				
	Bond (0%)				\$ -

1.0 General Description of the "Work": Provide all supervision, labor, material tools and equipment to furnish and deliver aggregates of the type, at the unit prices, and up to the qty shown on the Schedule of Values.

- .1 FURNISH SECTIONS: 02230 - Granular Materials complete per plans, specifications, and addenda [Addenda 1-6];

Also includes in addition to the above, any other applicable and/or related specification sections, including but not limited to: Division 00 and Division 1 General Requirements

2.0 Including But Not Limited to:

- .1 The Contract price(s) are firm through 12/31/19.
- .2 Seller will provide _0_% of the Seller's total contract dollar value in DBE participation.
- .3 Material is not exempt from sales or use taxes.
- .4 **Industrial Machinery Sales and Use Tax Exemption Certificate – Attachment C-3 (per Specification Section 00800 Supplementary Conditions Article SC-6.10A).** Sales and Use Tax Exemption Certificate will be provided for the Project by the Contractor.
- .5 All Deliveries must include a material ticket recognizing the material and quantity delivered. Delivery Tickets to be signed by Contractor for validation of receipt and acceptance to pay for actual quantities delivered.

3.0 Clarifications:

- .1 Effective 1/1/20 Seller will institute a 3% increase per ton on all remaining aggregate through 12/31/20. An additional 3% increase will be effective per ton starting 1/1/21 through 12/31/21.
- .2 Delivered prices are based on full loads (20 ton or more) a minimum haul may be applied for smaller loads.

Franklin WRF Modifications & Expansion Project
City of Franklin, TN
Job No.: 103925

Seller: Smyrna Ready Mix Concrete, LLC
Purchase Agreement No.: PA103925-001
Contract ID No. PXXXXXX-XXX

ATTACHMENT A Concrete

Scope of Work

Item	Description	Quantity	Unit of Measure	Unit Price	Total
1	2500 PSI Concrete - 1/2" chip		CY	\$ 97.00	
2	Color Utility Red 1/2 Dosage		CY	\$ 28.00	
3	3000 PSI - 1/2" Chip (Sidewalk C&G)		CY	\$ 101.00	
	Escalation date 04-01-2020 \$4.00/CY				
	Contract Total (without Taxes)				

1.0 General Description of the "Work": The s

- .1 FURNISH SECTIONS: Section 02515 - Concrete Sidewalk, Section 03300 - Cast-In-Place Concrete, 16900 - Ductbank Encasement complete per plans, specifications, and Addenda [Addenda 1-6]

Also included in additional to the above, any other applicable and/or related specification sections. Including but not limited to: Division 00, Division 1 General Requirements.

2.0 Including But Not Limited to:

- .1 The Unit Prices in the Schedule of Values are firm for the durations of the Project including escalation.
.2 Seller will provide 0% of the Seller's total contract dollar value in DBE participation.
.3 Material is not exempt from sales or use taxes.
.4 Seller shall provide the furnishing concrete for duct bank encasement, sidewalk and curb details on Contract Drawing E-5 through E-15; Contract Drawing C-23 and CD-3.

3.0 Schedule of Work:

- .1 All Material and equipment delivery schedules shall be coordinated with the Contractor prior to shipment and Seller shall provide a minimum of 72 hours advance notice of all deliveries.
.2 Concrete for Duct bank shall be available for delivery to site as requested by Contractor.
.3 Concrete for Sidewalk shall be available for delivery to site as requested by Contractor.
.4 Concrete for Curbs shall be available for delivery to site as requested by Contractor.

4.0 Unit Prices, Options and Allowances:

	Description	Qty	UoM	Price	Price Validity
.1	Add MRWR, increase slump 4" to 6"	1	CY	\$3.00	
.2	Add MRWR, increase slump 4" to 8"	1	CY	\$5.00	
.3	Calcium Chloride, LQD, 1%	1	CY	\$3.00	
.4	Non-Chloride Accelerator, 1%	1	CY	\$4.50	
.5	Superplasticizer, dose	1	CY	\$6.00	
.6	Hot/Chilled Water	1	CY	\$3.00	

Rental Rate Blue Book®
Caterpillar 314D LCR (disc. 2013)
Crawler Mounted Hydraulic Excavators

Size Class:
14.1 - 16.0 MTons
Weight:
31085 MT

Configuration for 314D LCR (disc. 2013)

Bucket Capacity - Heaped	0.56 cu yd	Net Horsepower	90.0 hp
Operating Weight	14.1 mt	Power Mode	Diesel

Blue Book Rates

** FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs	FHWA Rate**
	Monthly	Weekly	Daily	Hourly	Hourly	Hourly
Published Rates	USD \$6,990.00	USD \$1,960.00	USD \$490.00	USD \$74.00	USD \$34.64	USD \$74.36
Adjustments						
Region (100%)	-	-	-	-		
Model Year (2013: 100%)	-	-	-	-		
Adjusted Hourly Ownership Cost (100%)	-	-	-	-		
Hourly Operating Cost (100%)						
Total:	USD \$6,990.00	USD \$1,960.00	USD \$490.00	USD \$74.00	USD \$34.64	USD \$74.36

Non-Active Use Rates

	Hourly
Standby Rate	USD \$21.05
Idling Rate	USD \$49.67

Rate Element Allocation

Element	Percentage	Value
Depreciation (ownership)	37%	USD \$2,586.30/mo
Overhaul (ownership)	47%	USD \$3,285.30/mo
CFC (ownership)	10%	USD \$699.00/mo
Indirect (ownership)	6%	USD \$419.40/mo
Fuel (operating) @ USD 3.07	29%	USD \$9.95/hr

Revised Date: 2nd half 2019

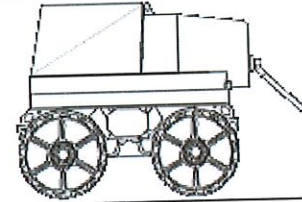
These are the most accurate rates for the selected Revision Date(s). However, due to more frequent online updates, these rates may not match Rental Rate Blue Book Print. Visit the Cost Recovery Product Guide on our Help page for more information.

The equipment represented in this report has been exclusively prepared for HENRY ALVARADO
(Henry.Alvarado@kiewit.com)

Rental Rate Blue Book®

Rammax P33/24FCR Trench Compactors

Size Class:
26 - 34 Inches
Weight:
3109 Inches



Configuration for P33/24FCR

Drum Width **24.0 in** Net Horsepower **14.5 hp**
Number Of Drums **4.0** Power Mode **Diesel**

Blue Book Rates

** FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs	FHWA Rate**
	Monthly	Weekly	Daily	Hourly	Hourly	Hourly
Published Rates	USD \$3,255.00	USD \$910.00	USD \$230.00	USD \$35.00	USD \$10.06	USD \$28.55
Adjustments						
Region (100%)	-	-	-	-		
Model Year (2019: 100%)	-	-	-	-		
Adjusted Hourly Ownership Cost (100%)	-	-	-	-		
Hourly Operating Cost (100%)					-	
Total:	USD \$3,255.00	USD \$910.00	USD \$230.00	USD \$35.00	USD \$10.06	USD \$28.55

Non-Active Use Rates

	Hourly
Standby Rate	USD \$8.32
Idling Rate	USD \$20.30

Rate Element Allocation

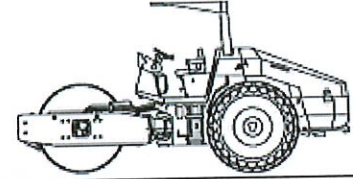
Element	Percentage	Value
Depreciation (ownership)	31%	USD \$1,009.05/mo
Overhaul (ownership)	55%	USD \$1,790.25/mo
CFC (ownership)	7%	USD \$227.85/mo
Indirect (ownership)	7%	USD \$227.85/mo
Fuel (operating) @ USD 3.07	18%	USD \$1.81/hr

Revised Date: 2nd half 2019

These are the most accurate rates for the selected Revision Date(s). However, due to more frequent online updates, these rates may not match Rental Rate Blue Book Print. Visit the Cost Recovery Product Guide on our Help page for more information.

The equipment represented in this report has been exclusively prepared for HENRY ALVARADO
(Henry.Alvarado@kiewit.com)

Rental Rate Blue Book®
Caterpillar CS-56 (disc. 2012)
Single Drum Vibratory Compactors

Size Class:
8.0 - 11.9 MTons
Weight:
25164 MT

Configuration for CS-56 (disc. 2012)

Drum Type	Smooth	Drum Width	84.0 in.
Net Horsepower	143.0 hp	Power Mode	Diesel

Blue Book Rates

** FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs	FHWA Rate**
	Monthly	Weekly	Daily	Hourly	Hourly	Hourly
Published Rates	USD \$5,035.00	USD \$1,410.00	USD \$355.00	USD \$53.00	USD \$38.06	USD \$66.67
Adjustments						
Region (100%)	-	-	-	-		
Model Year (2012: 100%)	-	-	-	-		
Adjusted Hourly Ownership Cost (100%)	-	-	-	-		
Hourly Operating Cost (100%)					-	
Total:	USD \$5,035.00	USD \$1,410.00	USD \$355.00	USD \$53.00	USD \$38.06	USD \$66.67

Non-Active Use Rates

	Hourly
Standby Rate	USD \$20.88
Idling Rate	USD \$40.02

Rate Element Allocation

Element	Percentage	Value
Depreciation (ownership)	49%	USD \$2,467.15/mo
Overhaul (ownership)	27%	USD \$1,359.45/mo
CFC (ownership)	13%	USD \$654.55/mo
Indirect (ownership)	11%	USD \$553.85/mo
Fuel (operating) @ USD 3.07	30%	USD \$11.41/hr

Revised Date: 2nd half 2019

These are the most accurate rates for the selected Revision Date(s). However, due to more frequent online updates, these rates may not match Rental Rate Blue Book Print. Visit the Cost Recovery Product Guide on our Help page for more information.

The equipment represented in this report has been exclusively prepared for HENRY ALVARADO
(Henry.Alvarado@kiewit.com)

Rental Rate Blue Book®
Caterpillar 950M

4-Wd Articulated Wheel Loaders

Size Class:
225 - 249 HP
Weight:
HP


Configuration for 950M

Bucket Capacity - Heaped
Operator Protection

12.0 cu yd
ROPS/FOPS

Net Horsepower
Power Mode

230.0 hp
Diesel

Blue Book Rates

** FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs	FHWA Rate**
	Monthly	Weekly	Daily	Hourly	Hourly	Hourly
Published Rates	USD \$8,325.00	USD \$2,330.00	USD \$585.00	USD \$88.00	USD \$44.38	USD \$91.68
Adjustments						
Region (100%)	-	-	-	-		
Model Year (2019: 100%)	-	-	-	-		
Adjusted Hourly Ownership Cost (100%)	-	-	-	-		
Hourly Operating Cost (100%)					-	
Total:	USD \$8,325.00	USD \$2,330.00	USD \$585.00	USD \$88.00	USD \$44.38	USD \$91.68

Non-Active Use Rates

Standby Rate
Idling Rate

Hourly

USD \$29.80
USD \$70.04

Rate Element Allocation

Element	Percentage	Value
Depreciation (ownership)	41%	USD \$3,413.25/mo
Overhaul (ownership)	37%	USD \$3,080.25/mo
CFC (ownership)	12%	USD \$999.00/mo
Indirect (ownership)	10%	USD \$832.50/mo
Fuel (operating) @ USD 3.07	51%	USD \$22.74/hr

Revised Date: 2nd half 2019

These are the most accurate rates for the selected Revision Date(s). However, due to more frequent online updates, these rates may not match Rental Rate Blue Book Print. Visit the Cost Recovery Product Guide on our Help page for more information.

The equipment represented in this report has been exclusively prepared for HENRY ALVARADO
(Henry.Alvarado@kiewit.com)

Rental Rate Blue Book®

Caterpillar 335F L CR

Crawler Mounted Hydraulic Excavators



Size Class:
40.1 - 50.0 MTons
Weight:
MT

Configuration for 335F L CR

Bucket Capacity - Heaped **2.2 cu yd** Net Horsepower **199.8 hp**
Operating Weight **84604.6 lbs** Power Mode **Diesel**

Blue Book Rates

** FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs	FHWA Rate**
	Monthly	Weekly	Daily	Hourly	Hourly	Hourly
Published Rates	USD \$16,295.00	USD \$4,565.00	USD \$1,140.00	USD \$170.00	USD \$73.18	USD \$165.77
Adjustments						
Region (100%)	-	-	-	-		
Model Year (2019: 100%)	-	-	-	-		
Adjusted Hourly Ownership Cost (100%)	-	-	-	-		
Hourly Operating Cost (100%)					USD \$73.18	USD \$165.77
Total:	USD \$16,295.00	USD \$4,565.00	USD \$1,140.00	USD \$170.00	USD \$73.18	USD \$165.77

Non-Active Use Rates

	Hourly
Standby Rate	USD \$49.07
Idling Rate	USD \$118.35

Rate Element Allocation

Element	Percentage	Value
Depreciation (ownership)	37%	USD \$6,029.15/mo
Overhaul (ownership)	47%	USD \$7,658.65/mo
CFC (ownership)	10%	USD \$1,629.50/mo
Indirect (ownership)	6%	USD \$977.70/mo
Fuel (operating) @ USD 3.07	35%	USD \$25.76/hr

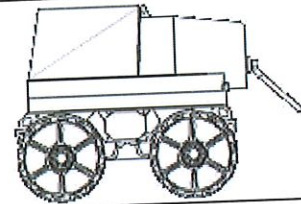
Revised Date: 2nd half 2019

These are the most accurate rates for the selected Revision Date(s). However, due to more frequent online updates, these rates may not match Rental Rate Blue Book Print. Visit the Cost Recovery Product Guide on our Help page for more information.

The equipment represented in this report has been exclusively prepared for HENRY ALVARADO
(Henry.Alvarado@kiewit.com)

Rental Rate Blue Book®
Wacker RT820 (disc. 2011)
 Trench Compactors

Similar to an RT825C
 (825C not in Equipment
 Watch database)

 Size Class:
 26 - 34 Inches
 Weight:
 3020 Inches

Configuration for RT820 (disc. 2011)

Drum Width	32.0 in	Net Horsepower	18.0 hp
Number Of Drums	4.0	Power Mode	Diesel

Blue Book Rates

** FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs	FHWA Rate**
	Monthly	Weekly	Daily	Hourly	Hourly	Hourly
Published Rates	USD \$4,300.00	USD \$1,205.00	USD \$300.00	USD \$45.00	USD \$13.32	USD \$37.75
Adjustments						
Region (100%)	-	-	-	-		
Model Year (2011: 100%)	-	-	-	-		
Adjusted Hourly Ownership Cost (100%)	-	-	-	-		
Hourly Operating Cost (100%)					USD \$13.32	
Total:	USD \$4,300.00	USD \$1,205.00	USD \$300.00	USD \$45.00		USD \$37.75

Non-Active Use Rates

 Standby Rate
 Idling Rate

 Hourly
 USD \$10.99
 USD \$26.68

Rate Element Allocation

Element	Percentage	Value
Depreciation (ownership)	31%	USD \$1,333.00/mo
Overhaul (ownership)	55%	USD \$2,365.00/mo
CFC (ownership)	7%	USD \$301.00/mo
Indirect (ownership)	7%	USD \$301.00/mo
Fuel (operating) @ USD 3.07	17%	USD \$2.25/hr

Revised Date: 2nd half 2019

These are the most accurate rates for the selected Revision Date(s). However, due to more frequent online updates, these rates may not match Rental Rate Blue Book Print. Visit the Cost Recovery Product Guide on our Help page for more information.

The equipment represented in this report has been exclusively prepared for HENRY ALVARADO
 (Henry.Alvarado@kiewit.com)

Franklin WRF Project

PROJECT Franklin WRF
 CONTRACTOR Kiewit
 ARCHITECT _____

PROJECT NO. 103925
 CONTRACT NO. _____
 DATE 7/13/19

TIME & MATERIAL DAILY LOG

Log of Work: <u>8" WAS Disruption & Lapping</u>			
<u>- 40' Saw Cut of Asphalt</u>			
<u>- 6 HR Hydrovac to expose lines and find the tee</u>			
<u>- 12 HR Self perform pothole to locate the line - 7/10/19</u>			
<u>- 35 HR labor for 8" cut/cup in Road - 7/11/19</u>			
<u>- 36' of 24" pipe removed under Alum Bldg - 7/12/19</u>			
<u>- 60' of 6" pipe removed under Alum Bldg - 7/12/19</u>			
MATERIALS USED	TYPE	UNIT COST	TOTAL
<u>1- 8" DI MJ. Cap & Fittings</u>			\$
<u>24-Bags of Grout to cover cap</u>			
<u>18.5 yards #57 stone to BK fill road</u>			
EQUIPMENT USED	HOURS	RATE	TOTAL
<u>335 excavator @ Alum Bldg</u>	<u>10 hrs</u>		\$
<u>Hydrovac @ WAS line in road</u>	<u>6</u>	<u>\$230</u>	
NO. MEN	CRAFTS EMPLOYED	HOURS	RATE
<u>4</u>	<u>Foreman, Operator, Pipelayer, laborer</u>	<u>35</u>	\$
<u>1</u>	<u>laborer for pothole</u>	<u>12</u>	
<u>4</u>	<u>Foreman, Operator, Pipelayer, laborer @ Alum</u>	<u>40</u>	

DAILY TOTAL COST \$ _____

We jointly certify that the above work was performed, and the quantities are correct as listed.

Andy McMillan

OM Town

7/14/19

Attachment A-1

DIP Pipe & Fittings
Core & Main Contract

PROJECT NAME: FRANKLIN WRF MODIFICATIONS & EXPANSION PROJECT

ROW	QTY	SIZE	DESCRIPTION	UNIT	TOTAL	EXT WEIGHT	AREA
3820		48"X05'-06"	DIP SPOOL CL53 FLG X FLG, T1/CL W/O SEAL COAT	\$ 11,939.35		3,409.00	DI INTERIOR
3830		48"X05'-00"	DIP SPOOL CL53 FLG X FLG, T1/CL W/O SEAL COAT	\$ 11,725.43		3,216.00	DI INTERIOR
3840		48"X02'-06"	DIP SPOOL CL53 FLG X FLG, T1/CL W/O SEAL COAT	\$ 10,655.87		2,251.00	DI INTERIOR
3850		48"	DI C110 FLG 90 BEND, T1/CL W/O SEAL COAT	\$ 25,733.82		4,095.00	DI INTERIOR
3860		48X36"	DI C110 FLG BASE 90 BEND, T1/CL W/O SEAL COAT	\$ 21,433.48		4,500.00	DI INTERIOR
3870		48X30"	DI C110 FLG CONCENTRIC REDUCER, T1/CL W/O SEAL COAT	\$ 14,477.98		2,625.00	DI INTERIOR
3880		48X30"	DI C110 FLG TEE, T1/CL W/O SEAL COAT	\$ 26,004.38		17,820.00	DI INTERIOR
3900		30"X02'-00"	DIP SPOOL CL53 FLG X FLG, T1/CL W/O SEAL COAT	\$ 3,804.67		0.00	DI INTERIOR
3910		30"X01'-06"	DIP SPOOL CL53 FLG X FLG, T1/CL W/O SEAL COAT	\$ 3,722.72		0.00	DI INTERIOR
3920		30"X03'-06"	DIP SPOOL CL53 FLG X FLG, T1/CL W/O SEAL COAT	\$ 4,050.54		1,092.50	DI INTERIOR
3930		30"	DI C110 FLG 90 BEND, T1/CL W/O SEAL COAT	\$ 7,718.54		7,150.00	DI INTERIOR
3940		30"	DI C110 FLG TEE, T1/CL W/O SEAL COAT	\$ 13,926.74		2,150.00	DI INTERIOR
3950		30"	DI C110 BLD FLG, T1/CL W/O SEAL COAT	\$ 3,208.54		500.00	DI INTERIOR
3960		30"X07'-06"	DIP SPOOL CL53 FLG X PE, T1/CL W/O SEAL COAT	\$ 2,980.38		7,877.50	DI INTERIOR
4010							
4020			ADD QUICK CONNECT TO EX 4" DRAIN LINE (M-35)				
4080							
4090			ITEM 17 - NEW UV STRUCTURE				
4100			NEW UV INF & EFF DIVERSION BOXES (M-38)				
4110		60"X03'-00"	DI WALL PIPE PE X WC X PE, CL W/O SEAL COAT	\$ 5,656.82		3,100.00	DI INTERIOR
4120		60"X03'-00"	DI WALL PIPE FLG (TFS) X WC X PE, T1/CL W/O SEAL COAT	\$ 28,542.67		3,400.00	DI INTERIOR
4130		60"	DI C110 BLD FLG, T1/CL W/O SEAL COAT	\$ 24,822.02		2,863.00	DI INTERIOR
4150							
4160			3" PVC SCH80 PIPE FOR EFFLUENT SAMPLER (M-40)				
4220							
4230		60" EFF-DI (M-31,38,40)					
4240		60"X04'-00"	DI WALL PIPE PE X WC X PE, T1/CL W/O SEAL COAT	\$ 6,195.64		2,178.00	DI INTERIOR
4250		60"	DI HP LOK 90 BEND, CL W/O SEAL COAT	\$ 33,234.95		8,205.00	DI UNDERGROUND
4260		60"X12'-0"	DIP SPOOL PC 300 HP LOK PE X HP LOK PE, CL W/O SEAL COAT	\$ 10,192.94		5,136.00	DI UNDERGROUND
4270							
4280		60" UV-EFF-DI (M-31,38,40)					
4290		60"X02'-00"	DI WALL PIPE HP LOK BELL X WC X PE, T1/CL W/O SEAL COAT	\$ 5,476.68		2,005.00	DI INTERIOR
4300							
4310			8" DRAINS FROM MUD VALVES (M-39)				
4340		08"X03'-00"	DI WALL PIPE FLG (TFS) X WC X PE, T1/P-401	\$ 373.70		924.00	DI INTERIOR
4350		08"	DI C153 MJ TEE, P-401	\$ 404.05		348.32	DI UNDERGROUND
4360		08"	DI C153 MJ CAP, P-401	\$ 202.03		60.00	DI UNDERGROUND
4370		08"	DI C153 MJ 90 BEND, P-401	\$ 313.22		117.60	DI UNDERGROUND
4380		08"	DI C153 MJ WYE, P-401	\$ 623.70		108.91	DI UNDERGROUND
4390		08"	DI C153 MJ 45 BEND, P-401	\$ 273.72		188.96	DI UNDERGROUND
4400		08"	EBAA 1100 MEGALUG ACC SET	\$ 52.12		609.00	DI UNDERGROUND
4410		08"	DI TJ PC 350, P-401	\$ 23.14		1,760.00	DI UNDERGROUND
4420							

Total \$277.29



JOHN BOUCHARD & SONS CO.
1024 Harrison Street
Nashville, TN 37203
615-256-0112

June 26, 2019

Mr. Andy McMillen
Kiewit Water Facilities South Co.
135 Claude Yates Drive
Franklin, TN 37064

RE: Change Order #2: Alum Plumbing & HVAC Revisions (CCA-011)

Dear Mr. McMillen,

Pursuant to CDM Smith's redesign of the Alum Building per CCA-011:

Plumbing & HVAC Scope – per Revisions to H-16 & P-12:

- Relocate HVAC equipment & condensate drywell – no cost changes.
- Extend 2" CW piping as shown on the revised P-12 drawing. Assumes CW, TW, and TWR piping can be installed in the same trench.
- Extend 2" TW piping to feed the FP-ES/EW, including additional trenching, backfill, and compaction.
- Add new 3/4" TWR pipe and fittings to the system, including the addition of a Taco 003-PNP recirculation pump. Includes AIS 316 SS hangers and anchors for the above grade 3/4" piping and pump.
- Pricing spreadsheet for the above is attached.

Alum Plumbing & HVAC Revisions	\$ 6,950.00
---	--------------------

Accepted On: _____ 2019

By: _____
SIGNATURE

Print Name: _____

JOHN BOUCHARD & SONS CO.

BY: David Proctor JV
SIGNATURE

Print Name David Proctor



FERGUSON ENTERPRISES, INC. #20
1708 ELM HILL PIKE
NASHVILLE, TN 37210-3708

Phone: 615-316-1800
Fax: 615-885-4944

Deliver To: DAVID 690-0177
From: Joseph Miller
Comments:

Page 1 of 3

11:02:08 JUN 07 2018

FERGUSON ENTERPRISES INC #20
Price Quotation
Phone: 615-316-1800
Fax: 615-885-4944

Bid No: B639878
Bid Date: 06/05/18
Quoted By: JBM

Cust Phone: 615-256-0112
Terms: 2% 10TH NET 30TH

Customer: JOHN BOUCHARD & SONS
1024 HARRISON ST
PLBG
NASHVILLE, TN 37203

Ship To: JOHN BOUCHARD & SONS
1024 HARRISON ST
PLBG
NASHVILLE, TN 37203

Cust PO#:

Job Name: FRANKLIN WWTF

Item	Description	Quantity	Net Price	UM	Total
P40PX20	8X20 FT PVC DWV S40 PE PIPE	1	515.000	C	5.15
PDWVCX	8 PVC DWV HXH COUP	1	15.761	EA	15.76
PDWVCOMBTPX	8 PVC DWV HXHXH COMB WYE	1	100.902	EA	100.90
PDWW4X	8 PVC DWV HXH 45 ELL	1	27.905	EA	27.91
PDWW9X	8 PVC DWV HXH 90 ELL	1	31.424	EA	31.42

PDWVDYX	DOUBLE COMB BEING BUILT				
	WITH DOUBLE WYE AND ST 45S				
PDWVS4X	8 PVC DWV FAB HXHXHXH DBL WYE	1	159.068	EA	159.07
	8 PVC DWV SXH ST 45 ELL	2	30.287	EA	60.57

PDWW9X	P TRAP BEING BUILT WITH				
	90 AND ST 90S				
PDWVS9X	8 PVC DWV HXH 90 ELL	1	31.424	EA	31.42
	8 PVC DWV ST 90 ELL	2	60.861	EA	121.72

PDWVFBXP	8X4 PVC DWV SXH FLUSH BUSH	1	23.963	EA	23.96
P40PU20	6X20 FT PVC DWV S40 PE PIPE	1	331.000	C	3.31
PDWVCU	6 PVC DWV COUP	1	9.485	EA	9.49
PDWVYU	6 PVC DWV WYE	1	33.612	EA	33.61
PDWVSTU	6 PVC DWV SAN TEE	1	37.586	EA	37.59
PDWW4U	6 PVC DWV 45 ELL	1	21.314	EA	21.31
PDWW9U	6 PVC DWV 90 ELL	1	24.323	EA	24.32
MUL026622	6 PVC DWV FAB CRS	1	68.588	EA	68.59
PDWVFBUP	6X4 PVC DWV SXH FLUSH BUSH	1	13.281	EA	13.28
F300066	PROFLEX 6 CI X PVC STL COUP	1	30.076	EA	30.08

PDWVDYU	DOUBLE COMB BEING BUILT				
	WITH DOUBLE WYE AND ST 45S				
PDWVS4U	6 PVC DWV DBL WYE	1	50.702	EA	50.70
	6 PVC DWV ST 45 ELL	2	25.245	EA	50.49

SP706X060	6 PVC DWV P TRAP	1	127.853	EA	127.85
P40PP20	4X20 FT PVC DWV S40 PE PIPE	1	177.000	C	1.77
PDWWCP	4 PVC DWV COUP	1	2.876	EA	2.88
PDWW9P	4 PVC DWV 90 ELL	1	6.890	EA	6.89
PDWW4P	4 PVC DWV 45 ELL	1	5.721	EA	5.72
PDWVCOMBP	4 PVC DWV COMB	1	17.366	EA	17.37
PDWWYP	4 PVC DWV WYE	1	11.576	EA	11.58
PDWVCOMBPPM	4X4X3 PVC DWV COMB	1	11.703	EA	11.70

11:02:08 JUN 07 2018

Reference No: B639878

Item	Description	Quantity	Net Price	UM	Total
PDWVCOMBPPK	4X4X2 PVC DWV COMB	1	9.072	EA	9.07
PDWVRPM	4X3 PVC DWV RED COUP	1	5.180	EA	5.18
PDWVPTP	4 PVC DWV P TRAP	1	27.864	EA	27.86
PDWV9P	4 PVC DWV 90 ELL	1	6.890	EA	6.89
P40PM20	3X20 FT PVC DWV S40 PE PIPE	1	130.000	C	1.30
PDWV9M	3 PVC DWV 90 ELL	1	3.489	EA	3.49
PDWV4M	3 PVC DWV 45 ELL	1	3.125	EA	3.13
P40PK20	2X20 FT PVC DWV S40 PE PIPE	1	65.000	C	0.65
PDWV9K	2 PVC DWV 90 ELL	1	1.187	EA	1.19
PDWV4K	2 PVC DWV 45 ELL	1	1.100	EA	1.10
PDWVCOMBK	2 PVC DWV COMB	1	4.005	EA	4.01
PDWVPTK	2 PVC DWV P TRAP	1	3.402	EA	3.40
CP80PP	4X20 CPVC S80 PIPE	1	994.228	C	9.94
CP80VSSFP	4 CPVC S80 VAN STONE SOC FLG	1	24.144	EA	24.14
FNWNBGZ1NAR6P	4 150# ZN NA 1/16 RNG NBG SET	1	12.769	EA	12.77
HIR1140HIP	4 CI 125# IMP FLG OS&Y GATE VLV	1	631.940	EA	631.94
CP80S9P	4 CPVC S80 SXS 90 ELL	1	27.830	EA	27.83
CP80STP	4 CPVC S80 SXSXS TEE	1	26.744	EA	26.74
CP80SCP	4 CPVC S80 SXS COUP	1	13.862	EA	13.86

	4X1 RED BEING BUILT				
CP80SBPK	4X2 CPVC S80 SXS BUSH	1	13.964	EA	13.96
CP80SBKG	2X1 CPVC S80 SXS BUSH	1	6.807	EA	6.81

CP80PM	3X20 CPVC S80 PE PIPE	1	681.944	C	6.82
CP80VSSFM	3 CPVC S80 VAN STONE SOC FLG	1	17.874	EA	17.87
FNWNBGZ1NAR6M	3 150# ZN NA 1/16 RNG NBG SET	1	7.212	EA	7.21
HIR1140HIM	3 CI 125# IMP FLG OS&Y GATE VLV	1	433.560	EA	433.56
CP80S9M	3 CPVC S80 SXS 90 ELL	1	15.452	EA	15.45

	BUILDING 3X1-1/2 TEE				
CP80STM	3 CPVC S80 SXSXS TEE	1	20.096	EA	20.10
CP80STMK	3X2 CPVC S80 SXSXS TEE	1	30.065	EA	30.07
CP80SBKJ	2X1-1/2 CPVC S80 SXS BUSH	1	6.807	EA	6.81

	BUILDING 3X1/2 TEE				
CP80STMK	3X2 CPVC S80 SXSXS TEE	1	30.065	EA	30.07
CP80SBKD	2X1/2 CPVC S80 SXS BUSH	1	6.807	EA	6.81

	BUILDING 3X3/4 REDUCER				
CP80SBMK	3X2 CPVC S80 SXS BUSH	1	12.629	EA	12.63
CP80SBMJ	3X1-1/2 CPVC S80 SXS BUSH	1	12.629	EA	12.63
CP80SBJF	1-1/2X3/4 CPVC S80 SXS BUSH	1	5.273	EA	5.27

CP80PK	2X20 CPVC S80 PIPE	1	362.019	C	3.62
CP80S9K	2 CPVC S80 SXS 90 ELL	1	5.925	EA	5.93
CP80S4K	2 CPVC S80 SXS 45 ELL	1	6.378	EA	6.38
A77CLF10801A	LF 2 BRZ 600# THRD FP BV	1	122.920	EA	122.92
CP80VSSFK	2 CPVC S80 VAN STONE SOC FLG	1	8.238	EA	8.24
FNWNBGZ1NAR6K	2 150# ZN NA 1/16 RNG NBG SET	1	6.463	EA	6.46
CP80SBKJ	2X1-1/2 CPVC S80 SXS BUSH	1	6.807	EA	6.81
CP80SCK	2 CPVC S80 SXS COUP	1	4.374	EA	4.37
CP80STK	2 CPVC S80 SXSXS TEE	1	7.895	EA	7.90
CP80STKJ	2X1-1/2 CPVC S80 SXSXS TEE	1	14.735	EA	14.74
CP80STKD	2X1/2 CPVC S80 SOC TEE	1	14.735	EA	14.74
CP80SUK	2 CPVC S80 SXS EPDM UNION	1	19.247	EA	19.25
CP80MAK	2 CPVC S80 MALE ADPT	1	7.607	EA	7.61
CP80PJ	1-1/2X20 CPVC S80 PE PIPE	1	262.094	C	2.62
A77CLF10701A	LF 1-1/2 BRZ 600# THRD FP BV	1	82.340	EA	82.34
CP80S9J	1-1/2 CPVC S80 SXS 90 ELL	1	4.910	EA	4.91
CP80S4J	1-1/2 CPVC S80 SXS 45 ELL	1	5.688	EA	5.69
CP80SCJ	1-1/2 CPVC S80 SXS COUP	1	3.762	EA	3.76



FERGUSON ENTERPRISES INC #20
Price Quotation

Fax: 615-885-4944

11:02:08 JUN 07 2018

Reference No: B639878

Item	Description	Quantity	Net Price	UM	Total

CP80STJ	BUILDING 1-1/2X3/4 TEE	1	7.092	EA	7.09
CP80SBJF	1-1/2 CPVC S80 SXSXS TEE	1	5.273	EA	5.27

CP80STJ	BUILDING 1-1/2X1/2 TEE	1	7.092	EA	7.09
CP80SBJD	1-1/2 CPVC S80 SXSXS TEE	1	5.273	EA	5.27

CP80SBJF	1-1/2X3/4 CPVC S80 SXS BUSH	1	5.273	EA	5.27
CP80MAJ	1-1/2 CPVC S80 MALE ADPT	1	5.607	EA	5.61
CP80FAJ	1-1/2 CPVC S80 FEM ADPT	1	4.989	EA	4.99
CP80SUJ	1-1/2 CPVC S80 SXS EPDM UNION	1	11.613	EA	11.61
CP80PG	1X20 CPVC S80 PIPE	1	155.208	C	1.55
CP80S9G	1 CPVC S80 SXS 90 ELL	1	2.034	EA	2.03
CP80SCG	1 CPVC S80 SXS COUP	1	1.997	EA	2.00
A77CLF10501A	LF 1 BRZ 600# THRD FP BV	1	26.595	EA	26.60
CP80MAG	1 CPVC S80 MALE ADPT	1	2.816	EA	2.82
CP80STG	1 CPVC S80 SXSXS TEE	1	2.936	EA	2.94
CP80STGF	1X3/4 CPVC S80 SXSXS TEE	1	6.051	EA	6.05
CP80PF	3/4X20 CPVC S80 PE PIPE	1	105.641	C	1.05
CP80S9F	3/4 CPVC S80 SXS 90 ELL	1	1.280	EA	1.28
CP80SCF	3/4 CPVC S80 SXS COUP	1	1.481	EA	1.48
A77CLF10401A	LF 3/4 BRZ 600# THRD FP BV	1	21.035	EA	21.04
CP80STF	3/4 CPVC S80 SXSXS TEE	1	2.394	EA	2.39
CP80STFD	3/4X1/2 CPVC S80 SXSXS TEE	1	5.250	EA	5.25
CP80MAF	3/4 CPVC S80 MALE ADPT	1	1.671	EA	1.67
CP80FAF	3/4 CPVC S80 FEM ADPT	1	1.700	EA	1.70
CP80SUF	3/4 CPVC S80 SXS EPDM UNION	1	4.698	EA	4.70
CP80PD	1/2X20 CPVC S80 PIPE	1	77.634	C	0.78
CP80S9D	1/2 CPVC S80 SXS 90 ELL	1	1.004	EA	1.00
CP80S4D	1/2 CPVC S80 SXS 45 ELL	1	1.229	EA	1.23
CP80STD	1/2 CPVC S80 SXSXS TEE	1	2.354	EA	2.35
CP80SCD	1/2 CPVC S80 SXS COUP	1	1.061	EA	1.06
A77CLF10301A	LF 1/2 BRZ 600# THRD FP BV	1	12.915	EA	12.92
CP80MAD	1/2 CPVC S80 MALE ADPT	1	1.370	EA	1.37
CP80SUD	1/2 CPVC S80 SXS EPDM UNION	1	4.536	EA	4.54

Net Total: \$3037.27
Tax: \$0.00
Freight: \$0.00
Total: \$3037.27

Quoted prices are based upon receipt of the total quantity for immediate shipment (48 hours). SHIPMENTS BEYOND 48 HOURS SHALL BE AT THE PRICE IN EFFECT AT TIME OF SHIPMENT UNLESS NOTED OTHERWISE. QUOTES FOR PRODUCTS SHIPPED FOR RESALE ARE NOT FIRM UNLESS NOTED OTHERWISE.

CONTACT YOUR SALES REPRESENTATIVE IMMEDIATELY FOR ASSISTANCE WITH DBE/MBE/WBE/SMALL BUSINESS REQUIREMENTS.

Seller not responsible for delays, lack of product or increase of pricing due to causes beyond our control, and/or based upon Local, State and Federal laws governing type of products that can be sold or put into commerce. This Quote is offered contingent upon the Buyer's acceptance of Seller's terms and conditions, which are incorporated by reference and found either following this document, or on the web at http://wolseleyna.com/terms_conditionsSale.html.
Govt Buyers: All items are open market unless noted otherwise.

LEAD LAW WARNING: It is illegal to install products that are not "lead free" in accordance with US Federal or other applicable law in potable water systems anticipated for human consumption. Products with *NP in the description are NOT lead free and can only be installed in non-potable applications. Buyer is solely responsible for product selection.



1231 E. 26th Street
Cleveland, Ohio 44114

mike@confast.com
216-357-7431
Fax 216-357-7435
www.confast.com

Order Confirmation

64479
10/16/2019

Bill To: 46378
JBS
1024 HARRISON STREET
NASHVILLE, TN 37203

SHIP TO: JBS
CARVER MORGAN JOHN BOUCHARD & SONS CO

1024 HARRISON STREET
NASHVILLE, TN 37203

P.O. #
3-64130

TERMS
E- Net 30

REP
CFS19

SHIP VIA
FREE

ITEM
ADIS31638

WAS-
31638612;T

DESCRIPTION
3/8" American Made Drop-In Anchor 316 Stainless Steel (ea)

3/8" x 6-1/2" 316 Stainless Steel Thunderstud Wedge Anchor (ea)

QTY	RATE	AMOUNT
50	\$9.00460	\$450.23
50	\$5.95640	\$297.82

SUBTOTAL	\$748.05
INVOICE	\$748.05
TOTAL	\$748.05

RCP & Headwall

Page: 1



Contract & Proposal

Quote No.: S116950-1

5900 E DIVISION ST
LEBANON, TN 37090 6403

Telephone : 615-453-6111
Fax : 615-453-6196

oldcastleinfrastructure.com

Quote To : Kiewit Power Constructors
PO BOX 452500
OMAHA, NE 68145 2500

Ship To : Franklin WRF- 15" RCP & Wingwalls
135 CLAUDE YATES DR
FRANKLIN, TN 37064 2085

Reference :			Contact:		Phone:	
Order No	Date	Customer No	Terms	Cash discount	Delivery terms	Quote valid for:
S116950	6/25/2019	004506	Net 30 Days		FOB Job Site	30 days

Qty	Unit	Item	Description	Mark	Unit price	Amount
16.00	FT	0152383	15" Dia x 8' RCP Class III		11.76	188.16
2.00	Ea	9008100	TSS 15" Pipe Gasket			
2.00	Ea	1079420	4' Wingwall - 15" RCP step down hole		276.00	552.00
1.00	Ea	2409085	Delivery Charge		430.00	430.00
						=\$1,170.16
		Tax Code	Taxable amount	Tax Rate		
		TN	1,170.16	7.00	81.91	
		TN-Wilson	1,170.16	2.25	26.33	

All products and services listed on this Quotation are provided under the Standard Terms and Conditions located at <https://oldcastleinfrastructure.com/customer-support/terms-conditions/material-sales/>

Used \$1,170.16 (W/O Tax)

QUOTATION TOTAL US ~~1,278.40~~

IMPORTANT: This proposal is based on standard terms and conditions. Items and quantities shown are the basis for the quotation, and we are not responsible for any discrepancies between this list and actual items or quantities.

Sales Person: Ryan Van Nuck Telephone: 615-425-6546

(Accepted by)

By: _____

(Position)

(Date)

CONSTRUCTION CHANGE AUTHORIZATION

TO:	Mr. Steve Davis Project Manager Kiewit Water Facilities South 4405 International Blvd., NW, Suite C-101 Norcross, Georgia 30093 (770) 940-8044	FROM:	CDM Smith 210 25 th Ave. N. Suite 1102 Nashville, TN 37203 (615) 320-3161
DATE:	February 26, 2020		
PROJECT:	City of Franklin, Tennessee Franklin WRF Modifications & Expansion Project		
CCA NUMBER:	037	CDM SMITH PROJ. NO.:	14915-231666
SUBJECT:	EQ Pump Relocation	CITY PROJECT NO.:	2017-0264
REFERENCE:	(See Below)		

DESCRIPTION: This CCA pertains to the layout of Monorail No. 1, the closed monorail track in the lower level of the Solids Processing Building, and to the sanitary piping associated with the floor drains and equipment drains in the first floor Cake and Sludge Bin Area.

1. In order to resolve piping and ductwork conflicts on the south side of the lower level, south of Column Line 7, it is necessary to delete the section of track between Column Lines E and G. Provide an end stop at each end of the track. Refer to the attached mark-ups on Sheet S-46.

In the monorail resubmittal, please include end stop cutsheets, details and calculations, plus any needed revisions to previously submitted details, structural analyses, anchors, or other calculations. In the submittal cover letter, please list the revisions or new material resulting from this change.

2. In order to resolve conflicts between the monorail/structural beams and the plumbing sanitary/vent piping located at the ceiling of the lower level Cake and Sludge Bin Area, modify the pipe routing as shown on the attached mark-ups on Sheets P-5 and P-7.
 - a. Sanitary piping serving the floor drains and equipment drains in the first floor Cake and Sludge Bin Area will be routed to the 4" sanitary connection to the 6" sanitary main located near the intersection of column lines F and 8.
 - b. Vent piping for the revised layout will be routed to the west from the western sanitary line running north-south near column line F, and then north along column line E to the 4" vent riser at the intersection of

column lines E and 3. Vent piping elevation will be above the monorail beam.

- c. Vent riser for the eastern sanitary line running north-south near column line H will be eliminated, including the riser up to the second floor and through-the-roof.
- d. Shift remaining 4" sanitary piping running north-south near column line D approximately 6" to the west to provide additional clearance for the monorail. Coordinate final location to ensure that piping does not conflict with the monorail trolley.

See attached markups for clarification. Submit proposed credit for Owner review.

CDM SMITH:

By: _____

Date: _____


6/25/20

CONTRACTOR:

By: _____

Date: _____


6/25/20

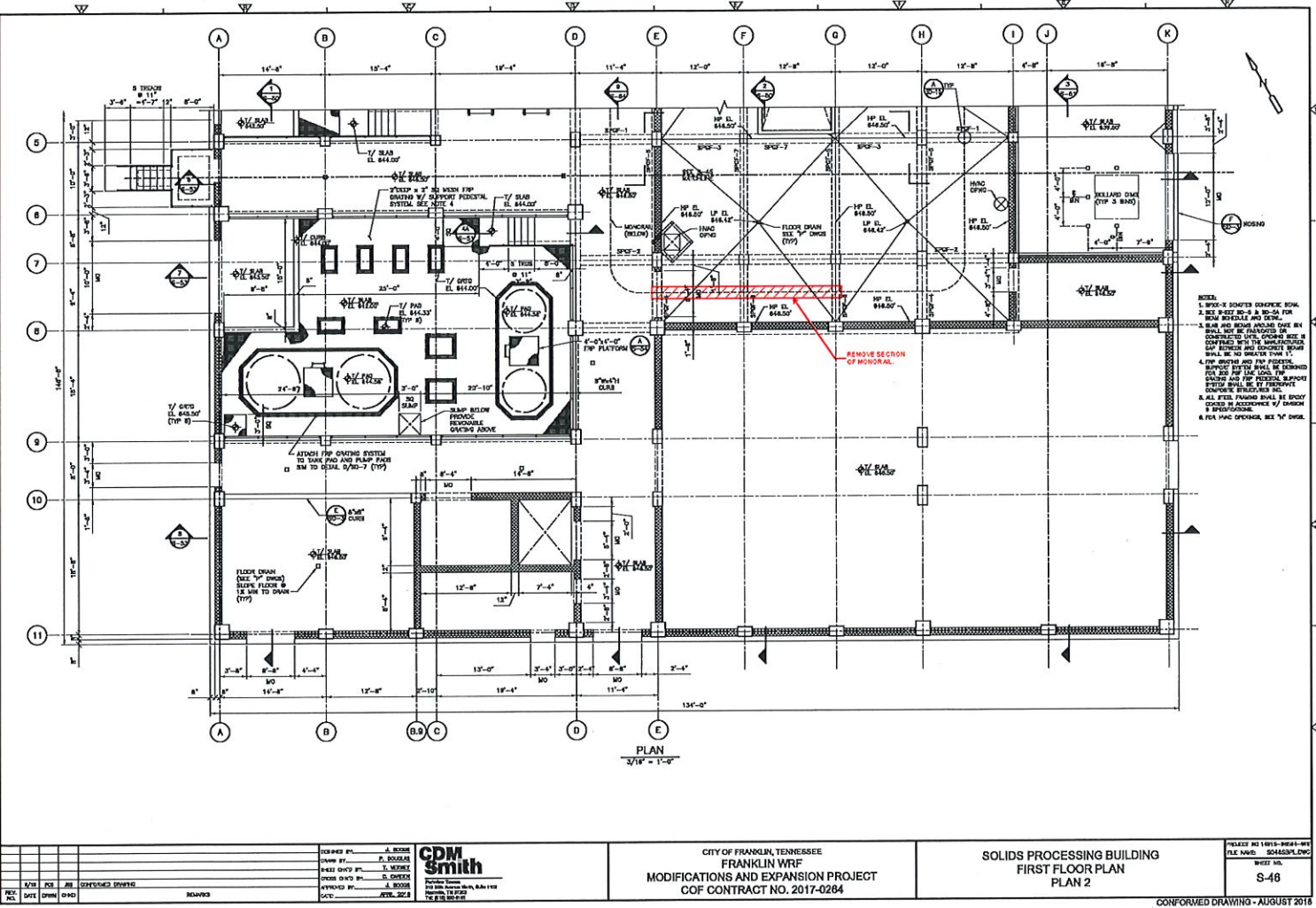
City of Franklin:

By: _____

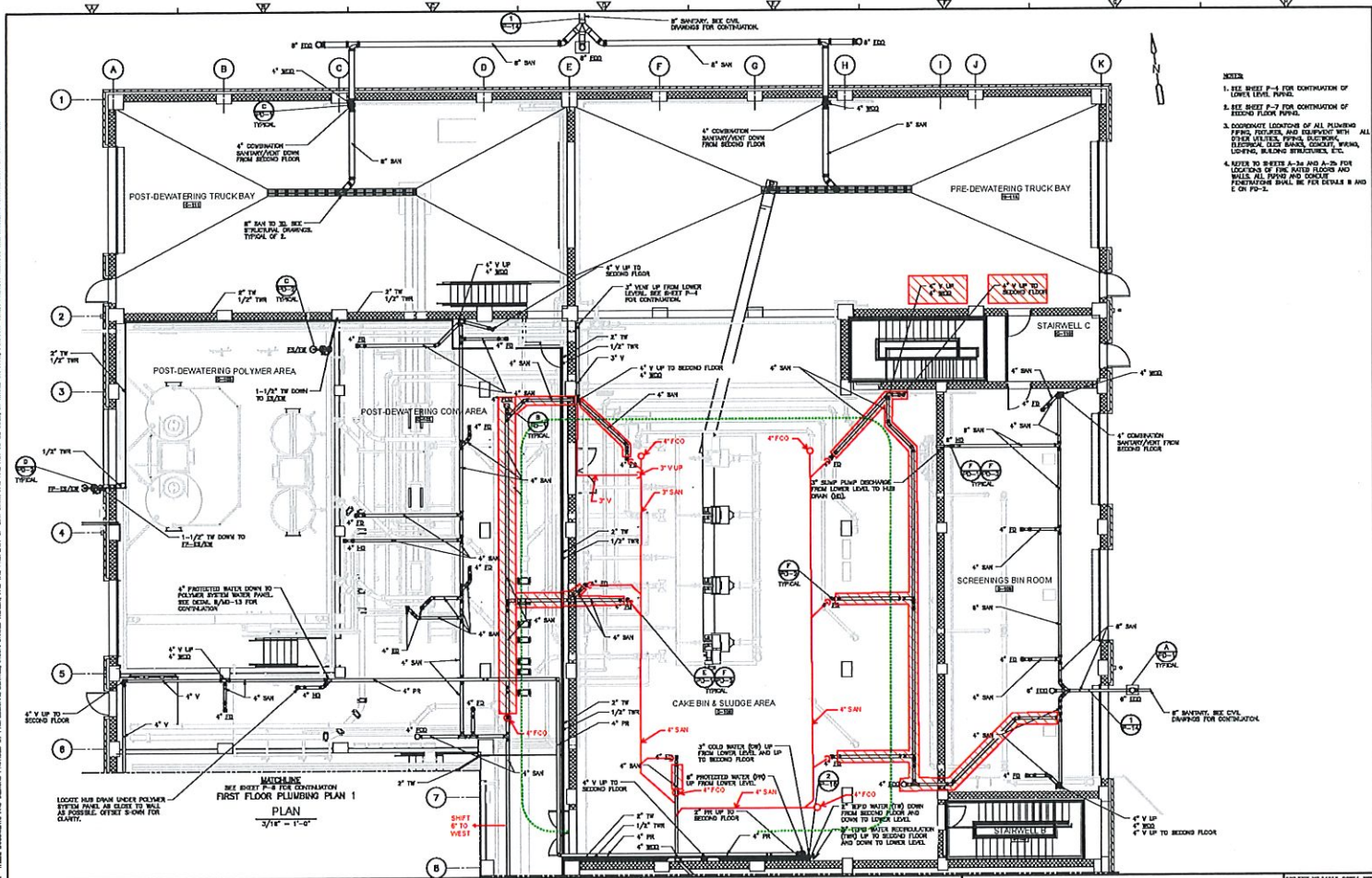
Date: _____


6/25/20

THIS DRAWING IS THE PROPERTY OF CPM SMITH AND SHALL NOT BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF CPM SMITH.



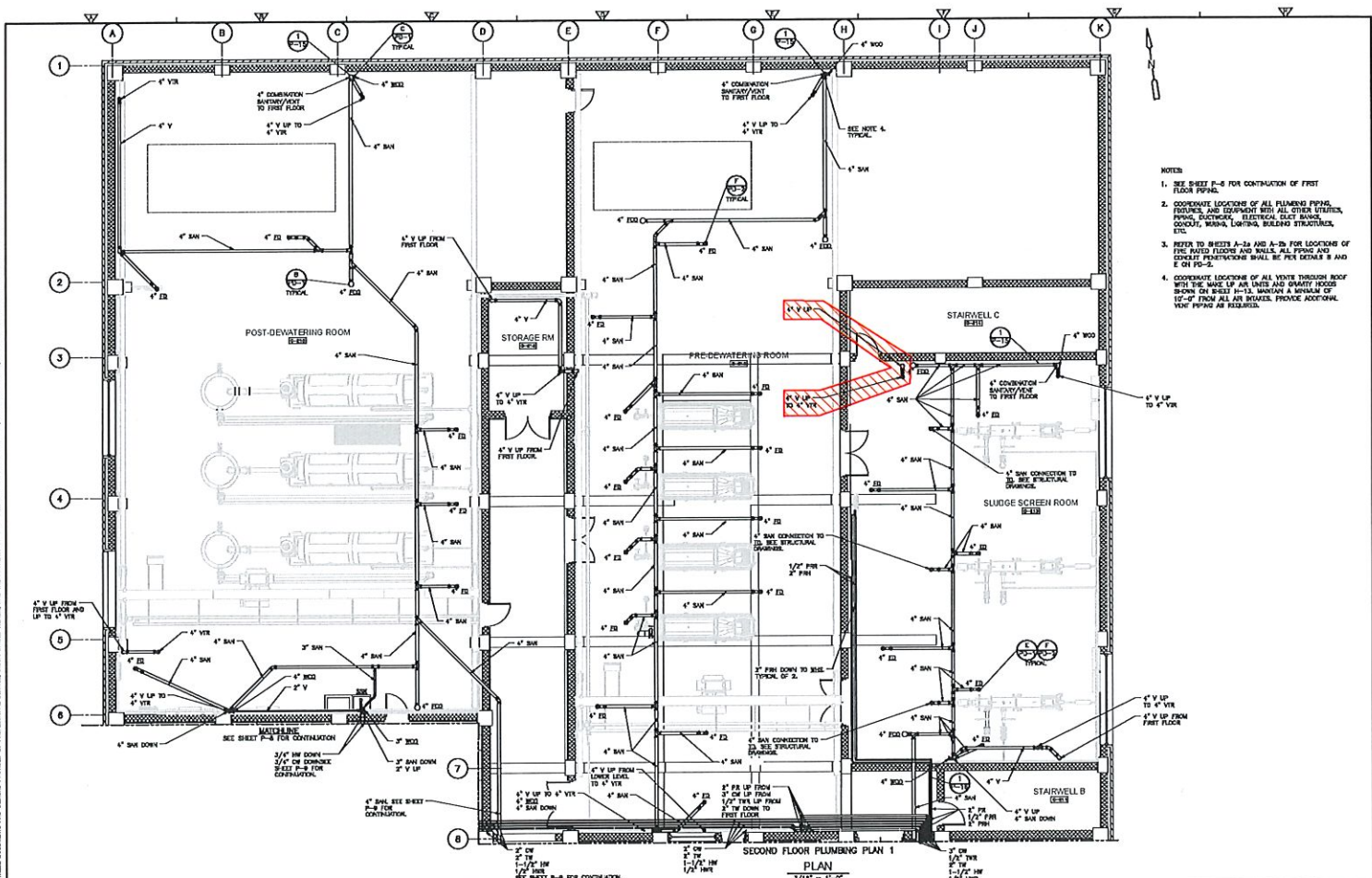
NOTES:
 1. SEE SHEET P-4 FOR CONTINUATION OF LOWER LEVEL PANEL.
 2. SEE SHEET P-7 FOR CONTINUATION OF SECOND FLOOR PANEL.
 3. COORDINATE LOCATION OF ALL PLUMBING FITTINGS, FIXTURES, AND EQUIPMENT WITH ALL OTHER UTILITIES, MECHANICAL, ELECTRICAL, GAS, RADIANT, COOLING, HEATING, LIGHTING, BUILDING STRUCTURES, ETC.
 4. REFER TO SHEETS A-10 AND A-20 FOR LOCATIONS OF FIRE RATED FLOORS AND WALLS. ALL PIPING AND EQUIPMENT PENETRATIONS SHALL BE FOR DEWARS B AND C ON P-2.



DESIGNED BY: M. BATHURST DRAWN BY: M. BATHURST CHECKED BY: P. POSEY APPROVED BY: S. COOPER DATE: 08/18/2018		CDM Smith 10000 N. 10th Ave., Suite 100 Denver, CO 80231 303.733.1300		CITY OF FRANKLIN, TENNESSEE FRANKLIN WRF MODIFICATIONS AND EXPANSION PROJECT COF CONTRACT NO. 2017-0264		SOLIDS PROCESSING BUILDING FIRST FLOOR PLUMBING PLAN 1		PROJECT NO: 18018-WRF-001 FILE NAME: P050001.DWG SHEET NO: P-5	
---	--	---	--	--	--	---	--	---	--

CONFORMED DRAWING - AUGUST 2018

NOTES:
1. SEE SHEET P-6 FOR CONTINUATION OF FIRST FLOOR PLUMBING.
2. COMPENSATE LOCATIONS OF ALL PLUMBING PIPES, FITTINGS, AND EQUIPMENT WITH ALL OTHER UTILITIES, PIPES, DUCTS, ELECTRICAL, ELEVATOR, CONDUIT, WIRING, LIFTING, BUILDING STRUCTURES, ETC.
3. REFER TO SHEETS A-2a AND A-2b FOR LOCATIONS OF FIRE RATED FLOORS AND WALLS. ALL PIPING AND CONDUIT PENETRATIONS SHALL BE PER DETAILS B AND E ON PD-2.
4. COMPENSATE LOCATIONS OF ALL VENTS THROUGH ROOF WITH THE MAKE UP AIR UNITS AND GRABITY HOOSES. BRUSH ON ROOF SHALL BE 1/2" MINIMUM A SQUARE OF 12" X 12" FROM ALL AIR INTAKES. PROVIDE ADDITIONAL VENT PIPING AS REQUIRED.



REVISIONS				DESIGNED BY: M. BUTLER		CITY OF FRANKLIN, TENNESSEE		SOLIDS PROCESSING BUILDING		PROJECT NO. 16113-10004-WP	
DATE: 08/01/2018				DRAWN BY: M. BUTLER		FRANKLIN WRF		SECOND FLOOR PLUMBING PLAN 1		FILE NAME: P0205PLUMB.DWG	
BY: M. BUTLER				CHECKED BY: J. DODGE		MODIFICATIONS AND EXPANSION PROJECT				SHEET NO.	
DATE: 08/01/2018				APPROVED BY: J. DODGE		COP CONTRACT NO. 2017-0264				P-7	
BY: J. DODGE				DATE: 08/01/2018						CONFORMED DRAWING - AUGUST 2018	



Kiewit Infrastructure South Co.
4800 North Point Parkway, Suite 100
Alpharetta, GA 30022

April 17, 2020

To: Attn: Mr. Dan Harris

CCA-KIEWIT-00038.00

CDM Smith, Inc.
210 25th Avenue North
Suite 1102
Nashville, TN 37203

Reference: Franklin WRF Modifications & Expansion Project
COF Contract No. 2017-0264

Subject: CCA 037 – SPB Monorail No. 1 Layout Credit Proposal

Dear Mr. Harris,

Attached you will find Kiewit's credit proposal for CCA 037 – SPB Monorail No. 1 Layout. This proposal includes a credit for omitting 25 feet of 10 inch patent track rail required in the lower level of the Solids Processing Building, provided by Schroeder Material Handling. There is no change in price for the rerouting of the plumbing piping provided by John Bouchard & Sons. Therefore, Kiewit proposes a credit of **Three Thousand Five Hundred Forty-Four Dollars (\$3,544.00)**.

If you have any questions, please do not hesitate to contact me at (678) 794-2121.

Sincerely,

Steve Davis
Project Manager

cc: File
Michelle Hatcher

Kiewit Infrastructure South Co.
4405 International Blvd, Suite #C101
Norcross, Georgia 30093



DATE: 4/17/2020

PCO NO.: CCA 037

PREPARED BY: Michael Sheaton

DESCRIPTION	QTY	UNIT	MH Per Unit	Total MH	DIRECT LABOR		INDIRECT LABOR		MATERIAL		CONST. EQUIPMENT		SUBCONTRACT		OTHER		TOTAL AMOUNT
					Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	
					\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -
CCA 037 - SPB Monorail No. 1 Layout					\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -
					\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -
Schroder Material Handling Inc.					\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -
Omit 25' of 10" Patent Track Rail	25.00	LF			\$ -		\$ -		\$ -		\$ -		\$ (135.00)	\$ (3,375.00)		\$ -	\$ (3,375.00)
					\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -
John Bouchard & Sons					\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -
Reroute associated plumbing piping - No Cost Change	1.00	PLS			\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -
					\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -
					\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -
					\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -
					\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -
					\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -
**Construction Equipment Ownership & Operating Costs are based on Blue Book FHWA Rates.					\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -
					\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -
					\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -
					\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -
					\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -
OTHER					\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -
STS - small tools, consumables, safety equip, (5% of direct labor, plus 9.75% sales tax Formula = Total Direct Labor Subtotal * .05 * 1.0975)		MHR			\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -
TAX: (9.75% of Material, Equipment, Other)																	\$ -
BOND (2% of total)																	\$ -
SUBTOTALS					\$ -		\$ -		\$ -		\$ -		\$ (3,375.00)		\$ -		\$ (3,375.00)
MARKUP %					5.00%		5.00%		5.00%		5.00%		5.00%		5.00%		\$ (168.75)
SUBTOTALS WITH MARKUPS APPLIED																	\$ -
BOND																	\$ -
TOTAL																	\$ -

SCHRODER MATERIAL HANDLING, INC.

2275 Perimeter Rd., SCTAC
Greenville, SC 29604

Change Order

Date: 04/14/2020
Owner: City Of Franklin, TX
Contractor: Kiewit
Project Name: Franklin WRF Modifications
and Expansion
PO # 103925-SC-016
Change Order # 1

The Following Changes are Requested	
Omitting 25ft of 10in patent track rail required in the lower level of the solids processing building	-\$3,375.00
The Original Contract Amount:	\$526,325.00
Previous Change Orders:	
Total Amount of This Change Order:	-\$3,375.00
New Contract Amount:	\$522,950.00

Sub-Contractor:

Schroder Material Handling, Inc.

Company Name

2275 Perimeter Rd., SCTAC, Greenville, SC 29604

Address

04/14/2020

Date

Signature

William Schroder, P.E., President

Print Name, Title

Contractor:

Kiewit Water Facilities

Company Name

4405 International Blvd, NW, Suite C-101 Norcross, GA

Address

04/14/2020

Date

Signature

Print Name, Title



Kiewit Infrastructure South Co.
4405 International Blvd., NW, Suite C-101
Norcross, GA 30093

April 6, 2020

To: Attn: Mr. Dan Harris

CP-KIEWIT-00001.02

CDM Smith, Inc.
210 25th Avenue North
Suite 1102
Nashville, TN 37203

Reference: Franklin WRF Modifications & Expansion Project
COF Contract No. 2017-0264

Subject: RE: Temporary Access Road Over-Excavation

Dear Mr. Harris,

Kiewit received your response to Cost Proposal No. 6 regarding additional work required to construct the temporary access road. Below is Kiewit's response to CDM Smith's comments;

1. The quantity of undercut does not necessarily correlate to the area in square yards of Geogrid placed because in most areas it was decided in the field to not undercut because of an existing utility line that would have been exposed. In lieu of undercutting it was decided in the field to place one layer of Geogrid on top of the subgrade, place one foot of surge stone, and one more layer of Geogrid on top of the Surge Stone. In result, this raised the overall elevation of the road by approximately one foot. The quantity of 3,733 SY equates to what was measured in the field by Kiewit Field Engineers.
2. The quantity of undercut does not necessarily correlate to the quantity of Surge Stone placed because unsuitable soils were excavated to various depths. In several locations, additional surge stone was placed in addition to the one foot placed over the entire access road because more than one foot of soil was removed.

The quantity of 2,551 tons equates to the total quantity received from the Roger's Group quarry. However, 986 Tons were used as embankment near the tie in to Mack Hatcher Parkway and should not have been included in the original cost proposal. The adjusted surge stone quantity for this cost proposal is 1,565 tons.

3. The 5,451 square yards of Terragrid RX1200 Geogrid material equates to the total amount received from Hanes Geo Components. Only 3,733 SY was used for construction of the temporary access road. The balance was used by Kiewit at various locations on site but is not associated with this Cost Proposal. The 2,500 SY of Terratex HD NTEP geotextile was also not associated with this Cost Proposal, but was included on the invoice from Hanes Geo Components for pricing backup.

Attached to this cost proposal is sheet C-56 marked up with locations and quantities of work installed. These locations and quantities were reviewed and agreed upon by Jim Townsend via email correspondence dated May 22, 2019.

With this adjusted proposal Kiewit is proposing an additional Contract Sum of **Fifty-Three Thousand, Five Hundred Fifty-Five Dollars (\$53,555)**. No change to the Contract Schedule is proposed.

If you have any questions, please do not hesitate to contact me at (678) 794-2121.



Kiewit

Kiewit Infrastructure South Co.
4405 International Blvd., NW, Suite C-101
Norcross, GA 30093

Sincerely,

Steve Davis
Project Manager

cc: File
Michelle Hatcher

Kiewit Infrastructure South Co.
4405 International Blvd, Suite #C101
Norcross, Georgia 30093

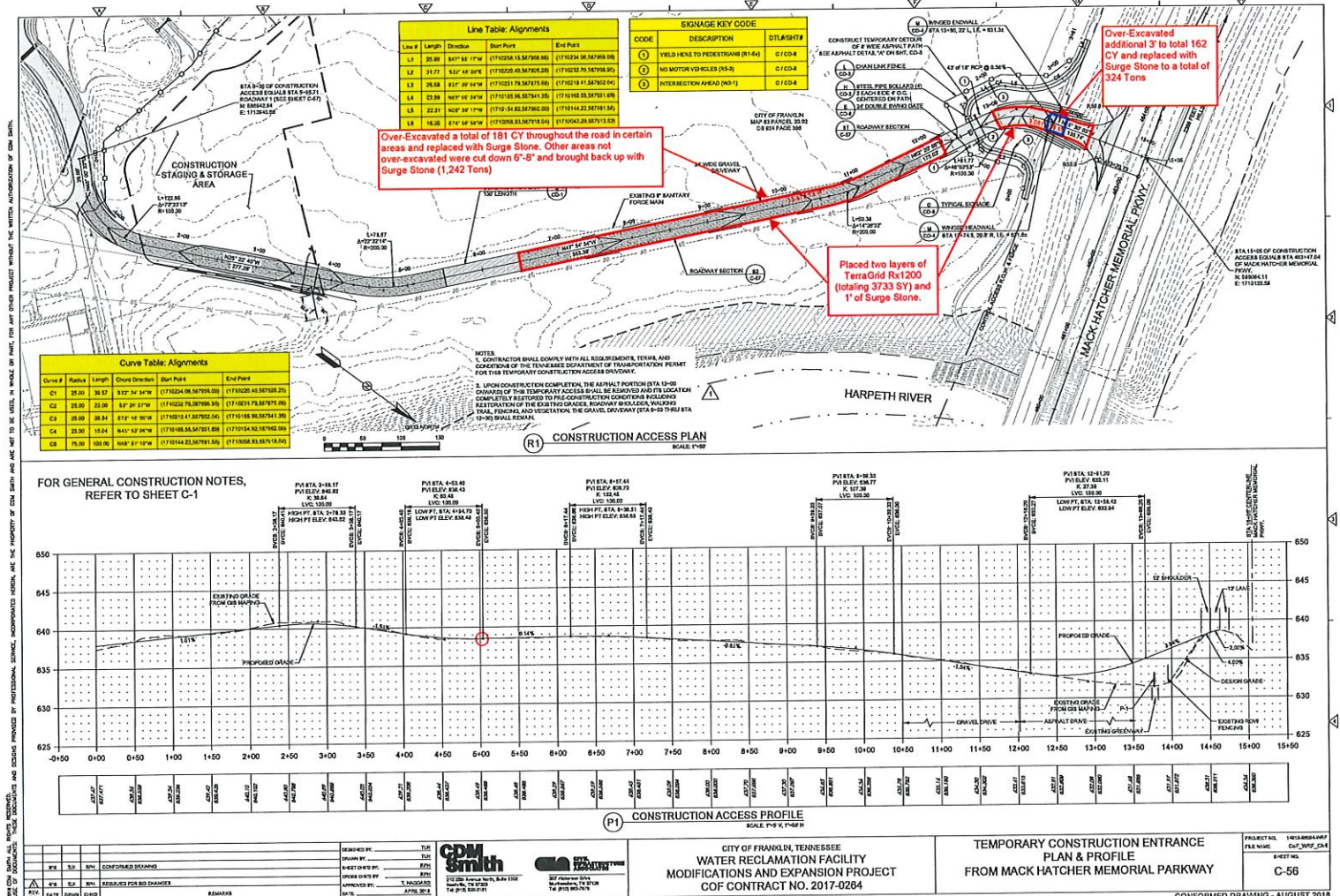


DATE: 04-29-19

PCO NO.:

PREPARED BY: Michael Sheaton

DESCRIPTION	QTY	UNIT	MH Per Unit	Total MH	DIRECT LABOR		INDIRECT LABOR		MATERIAL		CONST. EQUIPMENT		SUBCONTRACT		OTHER		TOTAL AMOUNT
					Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	
Temp Access Road Over Excavation						\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	\$ -
Excavate Roadway	343	CY	0.05	18	\$ 2.00	\$ 684.32		\$ -		\$ -		\$ -		\$ -		\$ -	\$ 684.32
Place Geogrid	3,733	SY	0.01	27	\$ 0.31	\$ 1,148.38		\$ -		\$ 1.12	\$ 4,180.96		\$ -			\$ -	\$ 5,329.34
Place & Compact Surg Stone	1,665	TN	0.05	83	\$ 2.34	\$ 3,663.01		\$ -		\$ 13.00	\$ 20,345.00		\$ -			\$ -	\$ 24,008.01
Kiewit Supervision - Foreman	42	MHR	1.00	42		\$ -	\$ 70.26	\$ 2,951.10		\$ -		\$ -		\$ -		\$ -	\$ 2,951.10
F-250 4x4 Pickup Truck	42	HR				\$ -		\$ -		\$ -	\$ 24.71	\$ 1,037.82		\$ -		\$ -	\$ 1,037.82
CAT D5K LGP Dozer	42	HR				\$ -		\$ -		\$ -	\$ 72.47	\$ 3,019.58		\$ -		\$ -	\$ 3,019.58
CAT CS-55 - 84" Steel Drum Roller	42	HR				\$ -		\$ -		\$ -	\$ 66.03	\$ 2,751.25		\$ -		\$ -	\$ 2,751.25
CAT 336 Excavator	16	HR				\$ -		\$ -		\$ -	\$ 118.88	\$ 1,901.76		\$ -		\$ -	\$ 1,901.76
OSR - Tandem Dump Truck (T&W Trucking)	16	HR				\$ -		\$ -		\$ -		\$ -	\$ 90.00	\$ 1,440.00		\$ -	\$ 1,440.00
**Construction Equipment Ownership & Operating Costs are based on Blue Book FHWA Rates.																	
						\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	\$ -
						\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	\$ -
						\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	\$ -
						\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	\$ -
						\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	\$ -
						\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	\$ -
						\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	\$ -
						\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	\$ -
OTHER						\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	\$ -
STS - small tools, consumables, safety equip. (5% of direct labor, plus 9.75% sales tax: Formula = Total Direct Labor Subtotal * .05 * 1.0925)	167	MHR				\$ -		\$ -		\$ -		\$ -		\$ -	\$ 1.81	\$ 301.58	\$ 301.58
						\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	\$ -
TAX: (9.75% of Material, Equipment, Other)										\$ 2,391.28		\$ 849.27				\$ 29.40	\$ 3,269.95
BOND (2% of total)																	\$ -
SUBTOTALS				167		\$ 5,495.71		\$ 2,951.10		\$ 26,917.24		\$ 9,569.68		\$ 1,440.00		\$ 330.98	\$ 46,594.71
MARKUP %						16.00%		16.00%		16.00%		16.00%		6.00%		16.00%	\$ 6,860.21
SUBTOTALS WITH MARKUPS APPLIED						\$ 6,320.07		\$ 3,393.76		\$ 30,954.63		\$ 10,993.63		\$ 1,512.00		\$ 380.63	\$ 53,654.92
BOND																	\$ -
TOTAL																	\$ 53,655.00



Michael.Sheston

From: Cody.Prange
Sent: Wednesday, May 22, 2019 12:54 PM
To: Michael.Sheston
Subject: FW: Temporary Access Road



Cody Prange
Field Engineer I

KIEWIT WATER FACILITIES SOUTH CO.
135 Claude Yates Drive
Franklin, TN 37064
(507) 461-2432
Cody.Prange@kiewit.com

From: Townsend, James M. <townsendjm@cdmsmith.com>
Sent: Wednesday, May 22, 2019 12:47 PM
To: Cody.Prange <Cody.Prange@kiewit.com>
Subject: [EXTERNAL] RE: Temporary Access Road

Cody

I have reviewed the information in the Temporary Access Road email and concur with the information as presented.

Regards

Jim

Jim Townsend | Resident Project Representative | CDM Smith |
1100 Marion Street, Suite 300 | Knoxville, Tennessee 37921 |
Office: 865.963.4300 | Direct: 865.963.4314 | Mobile: 865.209.1034 |
townsendjm@cdmsmith.com | cdmsmith.com |

From: Cody.Prange <Cody.Prange@kiewit.com>
Sent: Wednesday, May 22, 2019 9:36 AM
To: Townsend, James M. <townsendjm@cdmsmith.com>
Subject: Temporary Access Road

Jim,

Per our conversation:

Based on ECS's reports and recommendations Kiewit raised the Temporary Construction Access Road above proposed design elevation because of existing unsuitable soils and the utility line running under the proposed location of the access road.

After Kiewit excavated to proposed design subgrade elevation, Kiewit had to remove an additional 8" to 12" of unsuitable soil in certain areas per ECS's recommendation, compacted the subgrade and placed one layer of TerraGrid Rx1200 on the compacted subgrade.

Additionally, Kiewit placed 6" to 12" (depending on depth of cut) of Surge Stone to bring back to proposed finish design elevation and placed a layer of TerraGrid Rx1200 on top of the Surge Stone. (total of two layers of TerraGrid – one on top and one on the bottom)

After Sessions Paving placed the designed thickness of TDOT Grade D (10"), this brought the overall finish elevation of the road roughly 10" on average higher than proposed design elevation.

However, during removal of the existing walking trail, Kiewit experienced more unsuitable soil and had to over-excavate an additional 2' lower than the 1' that ECS recommended. Kiewit then placed one layer of TerraGrid Rx1200 on compacted subgrade and filled the over-excavation with Surge Stone and another layer of TerraGrid Rx1200 on top of the Surge Stone.

During this process, ECS was on-site to inspect over-excavation and proof-rolling.

Attached is a drawing showing totals and area of over-work performed.

Please confirm or let me know if you have any issues with this.

Thank you Jim,



Cody Prange
Field Engineer I

KIEWIT WATER FACILITIES SOUTH CO.
135 Claude Yates Drive
Franklin, TN 37064
(507) 461-2432
Cody.Prange@kiewit.com



ECS Southeast, LLP

318 Seaboard Lane
Suite 208
Franklin, TN 37067
(615) 885-4983 [Phone]
(615) 771-4134 [Fax]

LETTER OF TRANSMITTAL

January 9, 2019

Kiewit

ATTN: Michael Owens

RE: **Franklin WRF Modification and Expansion**

ECS Job # **26:3665**

Permits:

Location: **135 Claude Yates Drive
Franklin, TN**

We are enclosing:

- ☒ Field Reports
- ☒ For your use
- ☒ As requested

ENCL:

Field Report # 1 08/01/2019

Mark Luskin, P.E., P.G.
Office Manager



Mark Luskin, P.E., P.G.
Office Manager

Disclaimer

1. This report (and any attachments) shall not be reproduced except in full without prior written approval of ECS.
2. The information in this report relates only to the activities performed on the report date.
3. Where appropriate, this report includes statements as to compliance with applicable project drawings and specifications for the activities performed on this report date.
4. Incomplete or non-conforming work will be recorded for future resolution.
5. The results of samples and/or specimens obtained or prepared for subsequent laboratory testing will be presented in separate reports/documents.

1000.1

**ECS Southeast, LLP**

318 Seaboard Lane
Suite 208
Franklin, TN 37067
(615) 885-4983 [Phone]
(615) 771-4134 [Fax]

FIELD REPORT

Project **Franklin WRF Modification and Expansion**
Location **Franklin, TN**
Client **Kiewit - Michael Owens**

Project No. **26:3665**
Report No. **1**
Day & Date **Thursday 08/01/2019**
Weather **60°/ Cloudy**
On-Site Time **1.25**
Lab Time **0.00**
Travel Time* **0.00**
Total **1.25**
Re Obs. Time **0.00**

Remarks

Trip Charges*

Tolls/Parking*

Mileage*

Time of Arrival Departure

09:00A 10:15A

Chargeable Items

* Travel time and mileage will be billed in accordance with the contract.

Summary of Services Performed (field test data, locations, elevations & depths are estimates) & Individuals Contacted.

The undersigned arrived on-site, as requested, to observe proofrolling of haul road at approximately proposed subgrade elevation. Please see the attached sketch.

Using a loaded, tandem-axle dump truck, the identified area was proofrolled and minor to moderate pumping and rutting was observed along the entire area proofrolled. The undersigned offer the following three (3) options to be considered to remediate the failing soils:

1. Remove two (2) feet of soils and place and compact surge stone back to proposed subgrade elevation.
2. Remove one (1) foot of soil and place and compact surge stone and a layer of geogrid back to proposed subgrade elevation.
3. Chemically stabilize the existing soils with lime or cement treatment.

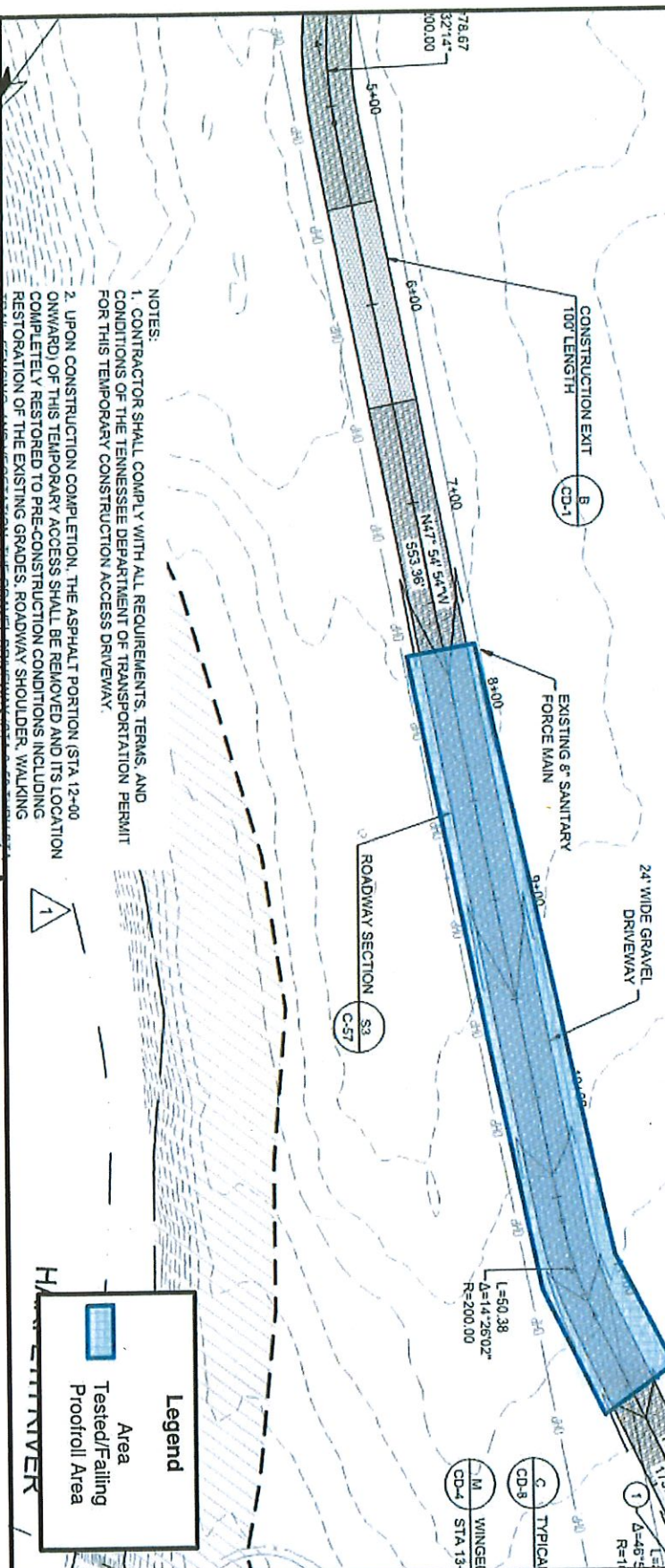
Notes:

1. Areas tested were based on stakeouts or work limits provided by others and were not confirmed by the undersigned.
2. Prior to departure, the general contractor's superintendent Teddy with Kewit was informed of the results of the day's testing and observations.

Line Table: Alignments				
Line #	Length	Direction	Start Point	End Point
L1	25.99	S67° 55' 17"W	(1710258.15, 587968.86)	(1710234.06, 587969.09)
L2	31.77	S22° 46' 09"E	(1710220.40, 587926.25)	(1710232.70, 587886.95)
L3	26.68	S27° 39' 04"W	(1710231.79, 587875.68)	(1710219.41, 587862.04)
L4	22.68	N63° 06' 54"W	(1710185.96, 587841.35)	(1710165.55, 587851.69)
L5	22.31	N28° 39' 17"W	(1710154.92, 587862.00)	(1710144.22, 587861.56)
L6	16.20	S74° 56' 59"W	(1710058.93, 587918.04)	(1710043.29, 587913.83)

SIGNAGE KEY CODE		
CODE	DESCRIPTION	DTL#/SHT#
1	YIELD HERE TO PEDESTRIANS (R1-5a)	C / CD-8
2	NO MOTOR VEHICLES (RS-3)	C / CD-8
3	INTERSECTION AHEAD (W2-1)	C / CD-8

CITY OF FRANKLIN
MAP 63 PARCEL 20.02
DB 924 PAGE 386



NOTES:

1. CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS, TERMS, AND CONDITIONS OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION PERMIT FOR THIS TEMPORARY CONSTRUCTION ACCESS DRIVEWAY.
2. UPON CONSTRUCTION COMPLETION, THE ASPHALT PORTION (STA 12+00 ONWARD) OF THIS TEMPORARY ACCESS SHALL BE REMOVED AND ITS LOCATION COMPLETELY RESTORED TO PRE-CONSTRUCTION CONDITIONS INCLUDING RESTORATION OF THE EXISTING GRADES, ROADWAY SHOULDER, WALKING

Legend

- Area Tested/Failing
- Proofroll Area



INVOICE

CORPORATE OFFICE
500 N. McIn Creek Rd.
P. O. BOX 457
CONOVER, NC 28613-0457
PHONE (828) 464-4673
FAX (828) 464-0459



PLEASE REMIT TO
HANES GEO COMPONENTS
L&P FINANCIAL SERVICES CO.
P. O. BOX 60984
CHARLOTTE, NC 28260

SOLD TO

KIEWIT INFRASTRUCTURE SOUTH CO
ACCOUNTS PAYABLE
PO BOX 452500
OMAHA, NE 68145-2500

SHIP TO

KIEWIT INFRASTRUCTURE SOUTH CO
135 CLAUDE YATES DR.
CODY PRANGE 507-461-2432
FRANKLIN, TN 37027

INVOICE NUMBER	INVOICE DATE	TERMS	CARRIER	ROUTING	PPD/COL
64-592112	1/30/2019	NET 30	OUR TRUCK TENNESSEE		P
CUSTOMER NO.	CUSTOMER ORDER NO.	SLS. MGR	SLSMAN.	ORDER DATE	RELEASE #
44242		18	570	1/29/2019	056 28680 TPP

PRODUCT	WIDTH	DIM-2	DESCRIPTION	PUTUP	IPK	QC	CS	QUANTITY	UOM	PRICE	AMOUNT	AVG
32160			TERRAGRID RX1200 13'X164' 237 SY		EA			5	RL	260.7000	1,303.50 *	
38566			TERRATEX HD NTPEP 12.5'X360' 500 SY		EA			5	RL	290.0000	1,450.00 *	
95009	1.000		DELIVERY CHARGE	1	EA	EC		1	EA	65.0000	65.00 *	
99001			9.7500% TN WILLIAMSON COUNTY * DENOTES TAXABLE LINE ITEMS					1		274.8000	274.80	

CERTIFICATION:
THE SELLER DOES NOT CERTIFY, EITHER IMPLICITLY OR EXPLICITLY, THESE PRODUCTS TO MEET
THE REQUIREMENTS OF ANY REGULATORY AGENCY OR SPECIFICATION EXCEPT AS MAY BE
CERTIFIED ABOVE OR UNDER SEPARATE WRITTEN CERTIFICATION. ALL TRANSACTIONS ARE
SUBJECT TO THE CONDITIONS ON THE REVERSE SIDE OF THIS INVOICE.

*****ALL RETURNS SUBJECT TO A 25% RESTOCKING FEE*****

43715

293 THE LAWS OF THE STATE OF NORTH CAROLINA SHALL GOVERN THIS TRANSACTION. A LATE PAYMENT CHARGE AT A PER ANNUM RATE
EQUAL TO THE PRIME RATE OF THE CHASE MANHATTAN BANK, N.A. IN EFFECT ON THE FIRST DAY OF EACH MONTH PLUS 2% OR 18% PER ANNUM
WHICHEVER RATE IS HIGHER, WILL BE IMPOSED ON THE FIRST OF EACH MONTH ON ALL PAST DUE INVOICES PAID DURING THE MONTH.

TOTAL INVOICE
AMOUNT

3,093.30

ORIGINAL

DISCLAIMER:

SELLER SPECIFICALLY DISCLAIMS ANY AND ALL WARRANTIES, EXPRESSED, IMPLIED, OR STATUTORY, WRITTEN OR ORAL, INCLUDING BUT NOT LIMITED TO, WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

LIABILITY:

BUYER'S SOLE AND EXCLUSIVE REMEDY SHALL BE THE REPLACEMENT AT BUYER'S FACILITY OF THE GOODS FOUND TO BE DEFECTIVE OR, AT SELLER'S OPTION, THE REFUND OR CREDIT TO THE BUYER OF AN AMOUNT EQUAL TO THE AMOUNT PAID BY BUYER FOR THE DEFECTIVE GOODS INCLUDING SHIPPING COSTS. SELLER SHALL MAKE REFUNDS OR REPLACEMENTS ONLY IF BUYER (A) NOTIFIES SELLER WITHIN ONE HUNDRED TWENTY (120) DAYS OF RECEIPT OF THE ALLEGED NON-CONFORMING PRODUCT AND STATES THE BASIS FOR BUYER'S DETERMINATION THAT THE PRODUCT DOES NOT CONFORM WITH THE APPLICABLE SPECIFICATIONS AND (B) COMPLIES WITH SELLER'S REASONABLE INSTRUCTIONS AS TO RETURN OF THE PRODUCT IN THE EVENT THAT SELLER ELECTS TO REQUEST THAT THE ALLEGED NON-CONFORMING PRODUCT BE RETURNED. IN NO EVENT, INCLUDING BUT NOT LIMITED TO CASES OF CLAIMS OF NEGLIGENCE OR STRICT LIABILITY, SHALL SELLER BE LIABLE FOR INDIRECT, SPECIAL OR CONSEQUENTIAL DAMAGES, NOR SHALL SELLER, IN ANY EVENT, BE LIABLE FOR DAMAGES IN EXCESS OF THE PURCHASE PRICE, AND SHIPPING COSTS, OF THE PRODUCT CLAIMED TO BE DEFECTIVE.

ASSUMPTION OF RISK:

BUYER ASSUMES ALL RISKS AND LIABILITIES RESULTING FROM THE USE IN ITS MANUFACTURING PROCESSES OF ANY OF SELLER PRODUCTS, OR BY USE OF SUCH PRODUCTS IN COMBINATION WITH OTHER SUBSTANCES.

NOTICE TO SUBSEQUENT PURCHASER OR REPACKER:

IF IMPORTED, THE REQUIREMENTS OF 19 U.S.S. 1304 AND 19 CFR PART 134 PROVIDE THAT THE ARTICLES IN THEIR CONTAINERS MUST BE MARKED IN A CONSPICUOUS PLACE AS LEGIBLY, INDELIBLY AND PERMANENTLY AS THE NATURE OF THE ARTICLE OR CONTAINER WILL PERMIT, IN SUCH A MANNER AS TO INDICATE TO AN ULTIMATE PURCHASER IN THE UNITED STATES, THE ENGLISH NAME OF THE COUNTRY OF ORIGIN OF THE ARTICLE.

ADDITIONAL TERMS AND CONDITIONS:

ADDITIONAL TERMS AND CONDITIONS CAN BE FOUND AT WWW.LEGGETT.COM/IMPORTANT-LINKS.HTM.

INVOICE

CORPORATE OFFICE
500 N. McLin Creek Rd.
P. O. BOX 457
CONOVER, NC 28613-0457
PHONE (828) 464-4673
FAX (828) 464-0459



PLEASE REMIT TO:
HANES GEO COMPONENTS
L&P FINANCIAL SERVICES CO.
P.O. BOX 60984
CHARLOTTE, NC 28260

SOLD TO

KIEWIT INFRASTRUCTURE SOUTH CO
ACCOUNTS PAYABLE
PO BOX 452500
OMAHA, NE 68145-2500

SHIP TO

KIEWIT INFRASTRUCTURE SOUTH CO
135 CLAUDE YATES DR.
CODY PRANGE 507-461-2432
FRANKLIN, TN 37064

INVOICE NUMBER		INVOICE DATE		TERMS		CARRIER		ROUTING				PPD/COL				
64-588880		1/09/2019		NET 30		OUR TRUCK TENNESSEE						P				
CUSTOMER NO.		CUSTOMER ORDER NO.		SLS. MGR		SLSMAN.		ORDER DATE		BILL OF LADING		RELEASE #				
44242		4501308212		18		570		1/09/2019		GOODLETTSVILLE, TN DAY8		S/L 27584 056 28558 TPP				
PRODUCT NO	WIDTH	DIM-2	DESCRIPTION				PUTUP	PK	QC	CS	QUANTITY	UOM	PRICE	AMOUNT	A/C	
32160			PROJECT NUMBER: FRANKLIN WRF MOD.													
			TERRAGRID RX1200 13'X164'					EA				7	RL	260.7000	1,824.90	*
			237 SY													
95009	1.000		DELIVERY CHARGE				1	EA	EC			1	EA	65.0000	65.00	*
99001			9.7500% TN WILLIAMSON COUNTY									1		184.2700	184.27	
			* DENOTES TAXABLE LINE ITEMS													
CERTIFICATION: THE SELLER DOES NOT CERTIFY, EITHER IMPLICITLY OR EXPLICITLY, THESE PRODUCTS TO MEET THE REQUIREMENTS OF ANY REGULATORY AGENCY OR SPECIFICATION EXCEPT AS MAY BE CERTIFIED ABOVE OR UNDER SEPARATE WRITTEN CERTIFICATION. ALL TRANSACTIONS ARE SUBJECT TO THE CONDITIONS ON THE REVERSE SIDE OF THIS INVOICE. ***ALL RETURNS SUBJECT TO A 25% RESTOCKING FEE***																

43715

259 THE LAWS OF THE STATE OF NORTH CAROLINA SHALL GOVERN THIS TRANSACTION. A LATE PAYMENT CHARGE AT A PER ANNUM RATE EQUAL TO THE PRIME RATE OF THE CHASE MANHATTAN BANK, N.A. IN EFFECT ON THE FIRST DAY OF EACH MONTH PLUS 2% OR 18% PER ANNUM WHICHEVER RATE IS HIGHER, WILL BE IMPOSED ON THE FIRST OF EACH MONTH ON ALL PAST DUE INVOICES PAID DURING THE MONTH.

TOTAL INVOICE
AMOUNT

2,074.17

ORIGINAL

DISCLAIMER:

SELLER SPECIFICALLY DISCLAIMS ANY AND ALL WARRANTIES, EXPRESSED, IMPLIED, OR STATUTORY, WRITTEN OR ORAL, INCLUDING BUT NOT LIMITED TO, WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

LIABILITY:

BUYER'S SOLE AND EXCLUSIVE REMEDY SHALL BE THE REPLACEMENT AT BUYER'S FACILITY OF THE GOODS FOUND TO BE DEFECTIVE OR, AT SELLER'S OPTION, THE REFUND OR CREDIT TO THE BUYER OF AN AMOUNT EQUAL TO THE AMOUNT PAID BY BUYER FOR THE DEFECTIVE GOODS INCLUDING SHIPPING COSTS. SELLER SHALL MAKE REFUNDS OR REPLACEMENTS ONLY IF BUYER (A) NOTIFIES SELLER WITHIN ONE HUNDRED TWENTY (120) DAYS OF RECEIPT OF THE ALLEGED NON-CONFORMING PRODUCT AND STATES THE BASIS FOR BUYER'S DETERMINATION THAT THE PRODUCT DOES NOT CONFORM WITH THE APPLICABLE SPECIFICATIONS AND (B) COMPLIES WITH SELLER'S REASONABLE INSTRUCTIONS AS TO RETURN OF THE PRODUCT IN THE EVENT THAT SELLER ELECTS TO REQUEST THAT THE ALLEGED NON-CONFORMING PRODUCT BE RETURNED. IN NO EVENT, INCLUDING BUT NOT LIMITED TO CASES OF CLAIMS OF NEGLIGENCE OR STRICT LIABILITY, SHALL SELLER BE LIABLE FOR INDIRECT, SPECIAL OR CONSEQUENTIAL DAMAGES, NOR SHALL SELLER, IN ANY EVENT, BE LIABLE FOR DAMAGES IN EXCESS OF THE PURCHASE PRICE, AND SHIPPING COSTS, OF THE PRODUCT CLAIMED TO BE DEFECTIVE.

ASSUMPTION OF RISK:

BUYER ASSUMES ALL RISKS AND LIABILITIES RESULTING FROM THE USE IN ITS MANUFACTURING PROCESSES OF ANY OF SELLER PRODUCTS, OR BY USE OF SUCH PRODUCTS IN COMBINATION WITH OTHER SUBSTANCES.

NOTICE TO SUBSEQUENT PURCHASER OR REPACKER:

IF IMPORTED, THE REQUIREMENTS OF 19 U.S.S. 1304 AND 19 CFR PART 134 PROVIDE THAT THE ARTICLES IN THEIR CONTAINERS MUST BE MARKED IN A CONSPICUOUS PLACE AS LEGIBLY, INDELIBLY AND PERMANENTLY AS THE NATURE OF THE ARTICLE OR CONTAINER WILL PERMIT, IN SUCH A MANNER AS TO INDICATE TO AN ULTIMATE PURCHASER IN THE UNITED STATES, THE ENGLISH NAME OF THE COUNTRY OF ORIGIN OF THE ARTICLE.

ADDITIONAL TERMS AND CONDITIONS:

ADDITIONAL TERMS AND CONDITIONS CAN BE FOUND AT WWW.LEGOETT.COM/IMPORTANT-LINKS.HTM.

INVOICE

CORPORATE OFFICE
500 N. McLin Creek Rd.
P.O. BOX 457
CONOVER, NC 28613-0457
PHONE (828) 464-4673
FAX (828) 464-0459



PLEASE REMIT TO
HANES GEO COMPONENTS
L&P FINANCIAL SERVICES CO.
P.O. BOX 60984
CHARLOTTE, NC 28260

SOLD TO

KIEWIT INFRASTRUCTURE SOUTH CO
ACCOUNTS PAYABLE
PO BOX 452500
OMAHA, NE 68145-2500

SHIP TO

KIEWIT INFRASTRUCTURE SOUTH CO
135 CLAUDE YATES DR.
CODY PRANGE 507-461-2432
FRANKLIN, TN 37064

INVOICE NUMBER		INVOICE DATE		TERMS		CARRIER		ROUTING		PPD/COL	
64-589113		1/10/2019		NET 30		PICK UP				P	
CUSTOMER NO.		CUSTOMER ORDER NO.		SLS. MGR		SLSMAN.		ORDER DATE		BILL OF LADING	
44242		4501309028		18		570		1/10/2019		S/L 27599	
								GOODLETTSVILLE, TN		DAY8	
										RELEASE #	
										056 28570 TPP	
PRODUCT		WIDTH		DIM-2		DESCRIPTION		PUTUP		PK	
32160						PROJECT NUMBER: FRANKLIN WRF		MOD.		EA	
						TERRAGRID RX1200 13'X164'				4	
						237 SY				RL	
										260.7000	
										1,042.80 *	
99001						9.2500% TN DAVIDSON COUNTY				1	
						* DENOTES TAXABLE LINE ITEMS				96.4600	
										96.46	
CERTIFICATION: THE SELLER DOES NOT CERTIFY, EITHER IMPLICITLY OR EXPLICITLY, THESE PRODUCTS TO MEET THE REQUIREMENTS OF ANY REGULATORY AGENCY OR SPECIFICATION EXCEPT AS MAY BE CERTIFIED ABOVE OR UNDER SEPARATE WRITTEN CERTIFICATION. ALL TRANSACTIONS ARE SUBJECT TO THE CONDITIONS ON THE REVERSE SIDE OF THIS INVOICE. *****ALL RETURNS SUBJECT TO A 25% RESTOCKING FEE*****											

43715

ORIGINAL

261 THE LAWS OF THE STATE OF NORTH CAROLINA SHALL GOVERN THIS TRANSACTION. A LATE PAYMENT CHARGE AT A PER ANNUM RATE EQUAL TO THE PRIME RATE OF THE CHASE MANHATTAN BANK, N.A. IN EFFECT ON THE FIRST DAY OF EACH MONTH PLUS 2% OR 18% PER ANNUM WHICHEVER RATE IS HIGHER, WILL BE IMPOSED ON THE FIRST OF EACH MONTH ON ALL PAST DUE INVOICES PAID DURING THE MONTH.

PAGE 1

LAST

43419

Page 75 of 468

DISCLAIMER:

SELLER SPECIFICALLY DISCLAIMS ANY AND ALL WARRANTIES, EXPRESSED, IMPLIED, OR STATUTORY, WRITTEN OR ORAL, INCLUDING BUT NOT LIMITED TO, WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

LIABILITY:

BUYER'S SOLE AND EXCLUSIVE REMEDY SHALL BE THE REPLACEMENT AT BUYER'S FACILITY OF THE GOODS FOUND TO BE DEFECTIVE OR, AT SELLER'S OPTION, THE REFUND OR CREDIT TO THE BUYER OF AN AMOUNT EQUAL TO THE AMOUNT PAID BY BUYER FOR THE DEFECTIVE GOODS INCLUDING SHIPPING COSTS. SELLER SHALL MAKE REFUNDS OR REPLACEMENTS ONLY IF BUYER (A) NOTIFIES SELLER WITHIN ONE HUNDRED TWENTY (120) DAYS OF RECEIPT OF THE ALLEGED NON-CONFORMING PRODUCT AND STATES THE BASIS FOR BUYER'S DETERMINATION THAT THE PRODUCT DOES NOT CONFORM WITH THE APPLICABLE SPECIFICATIONS AND (B) COMPLIES WITH SELLER'S REASONABLE INSTRUCTIONS AS TO RETURN OF THE PRODUCT IN THE EVENT THAT SELLER ELECTS TO REQUEST THAT THE ALLEGED NON-CONFORMING PRODUCT BE RETURNED. IN NO EVENT, INCLUDING BUT NOT LIMITED TO CASES OF CLAIMS OF NEGLIGENCE OR STRICT LIABILITY, SHALL SELLER BE LIABLE FOR INDIRECT, SPECIAL OR CONSEQUENTIAL DAMAGES, NOR SHALL SELLER, IN ANY EVENT, BE LIABLE FOR DAMAGES IN EXCESS OF THE PURCHASE PRICE, AND SHIPPING COSTS, OF THE PRODUCT CLAIMED TO BE DEFECTIVE.

ASSUMPTION OF RISK:

BUYER ASSUMES ALL RISKS AND LIABILITIES RESULTING FROM THE USE IN ITS MANUFACTURING PROCESSES OF ANY OF SELLER PRODUCTS, OR BY USE OF SUCH PRODUCTS IN COMBINATION WITH OTHER SUBSTANCES.

NOTICE TO SUBSEQUENT PURCHASER OR REPACKER:

IF IMPORTED, THE REQUIREMENTS OF 19 U.S.S. 1304 AND 19 CFR PART 134 PROVIDE THAT THE ARTICLES IN THEIR CONTAINERS MUST BE MARKED IN A CONSPICUOUS PLACE AS LEGIBLY, INDELIBLY AND PERMANENTLY AS THE NATURE OF THE ARTICLE OR CONTAINER WILL PERMIT, IN SUCH A MANNER AS TO INDICATE TO AN ULTIMATE PURCHASER IN THE UNITED STATES, THE ENGLISH NAME OF THE COUNTRY OF ORIGIN OF THE ARTICLE.

ADDITIONAL TERMS AND CONDITIONS:

ADDITIONAL TERMS AND CONDITIONS CAN BE FOUND AT WWW.LEGGETT.COM/IMPORTANT-LINKS.HTM.

INVOICE

CORPORATE OFFICE
500 N. McLin Creek Rd.
P. O. BOX 457
CONOVER, NC 28613-0457
PHONE (828) 464-4673
FAX (828) 464-0459



PLEASE REMIT TO
HANES GEO COMPONENTS
L&P FINANCIAL SERVICES CO.
P. O. BOX 60984
CHARLOTTE, NC 28260

SOLD TO

KIEWIT INFRASTRUCTURE SOUTH CO
ACCOUNTS PAYABLE
PO BOX 452500
OMAHA, NE 68145-2500

SHIP TO

KIEWIT INFRASTRUCTURE SOUTH CO
135 CLAUDE YATES DR.
CODY PRANGE 507-461-2432
FRANKLIN, TN 37027

INVOICE NUMBER		INVOICE DATE		TERMS		CARRIER		ROUTING		PPD/COL															
64-589393		1/14/2019		NET 30		OUR TRUCK TENNESSEE				P															
CUSTOMER NO.		CUSTOMER ORDER NO.		SLS. MGR		SLSMAN.		ORDER DATE		BILL OF LADING		RELEASE #													
44242		4501310123		18		570		1/14/2019		DAY8 S/L 27610		056 28581 TPP													
PRODUCT		WIDTH		DIM-2		DESCRIPTION		PUTUP		PK		QC		CS		QUANTITY		UOM		PRICE		AMOUNT		A/C	
32160						TERRAGRID RX1200 13'X164'				EA						7		RL		260.7000		1,824.90		*	
						237 SY																			
95009		1.000				DELIVERY CHARGE		1		RL		EC				1		EA		65.0000		65.00		*	
99001						9.7500% TN WILLIAMSON COUNTY										1				184.2700		184.27			
						* DENOTES TAXABLE LINE ITEMS																			
CERTIFICATION: THE SELLER DOES NOT CERTIFY, EITHER IMPLICITLY OR EXPLICITLY, THESE PRODUCTS TO MEET THE REQUIREMENTS OF ANY REGULATORY AGENCY OR SPECIFICATION EXCEPT AS MAY BE CERTIFIED ABOVE OR UNDER SEPARATE WRITTEN CERTIFICATION. ALL TRANSACTIONS ARE SUBJECT TO THE CONDITIONS ON THE REVERSE SIDE OF THIS INVOICE. ****ALL RETURNS SUBJECT TO A 25% RESTOCKING FEE****																									

CERTIFICATION:
THE SELLER DOES NOT CERTIFY, EITHER IMPLICITLY OR EXPLICITLY, THESE PRODUCTS TO MEET
THE REQUIREMENTS OF ANY REGULATORY AGENCY OR SPECIFICATION EXCEPT AS MAY BE
CERTIFIED ABOVE OR UNDER SEPARATE WRITTEN CERTIFICATION. ALL TRANSACTIONS ARE
SUBJECT TO THE CONDITIONS ON THE REVERSE SIDE OF THIS INVOICE.

****ALL RETURNS SUBJECT TO A 25% RESTOCKING FEE****

TOTAL INVOICE AMOUNT 2,074.17

43715
ORIGINAL

263 THE LAWS OF THE STATE OF NORTH CAROLINA SHALL GOVERN THIS TRANSACTION. A LATE PAYMENT CHARGE AT A PER ANNUM RATE
EQUAL TO THE PRIME RATE OF THE CHASE MANHATTAN BANK, N.A. IN EFFECT ON THE FIRST DAY OF EACH MONTH PLUS 2% OR 18% PER ANNUM
WHICHEVER RATE IS HIGHER, WILL BE IMPOSED ON THE FIRST OF EACH MONTH ON ALL PAST DUE INVOICES PAID DURING THE MONTH.

CORP.	CUSTOMER	CENTER
038	37393210	0049

INVOICE

INVOICE NO.
0049145236

SOLD TO:
KIEWIT INFRASTRUCTURE SOUTH CO.
P.O. BOX 452500
OMAHA, NE, 68145

Rogers Group, Inc.
Pottsville Quarry
Lewisburg TN 37091-6657
(931) 364-3494

INVOICE DATE 01/10/2019
JOB NUMBER FKLN WRF MOD
PO NUMBER FKLN WRF MOD
TERMS 30 NET

Visit our web site: www.rgilink.com

All amounts are in US dollars.

BY THIS DELIVERY WE ACQUIRE LIEN RIGHTS ON THE PROPERTY IMPROVED. NOTICE IS GIVEN THAT IF THIS INVOICE IS NOT PAID IN THE ORDINARY COURSE OF BUSINESS, THIS COMPANY WILL EXERCISE SAID RIGHTS.

A SERVICE CHARGE OF 1.5% PER MONTH, OR THE MAXIMUM RATE PERMITTED BY APPLICABLE STATE LAW, WHICH EVER IS LESSER, WILL BE ASSESSED AGAINST ALL DELINQUENT ACCOUNTS.

Date	Product	Product Name	Ticket	Hauler	Units	UOM	Unit Price	Amount
01/09/2019	003610	SURGE STONE						
			855158	6602588	20.61	TN	\$13.00	\$267.94
			855159	6602588	21.92	TN	\$13.00	\$284.96
			855167	6600401	21.37	TN	\$13.00	\$277.82
			855174	6600401	21.47	TN	\$13.00	\$279.12
			855177	6602695	21.62	TN	\$13.00	\$281.06
			855178	6602695	22.00	TN	\$13.00	\$286.00
			855185	6600401	20.50	TN	\$13.00	\$266.50
			855189	6602588	21.43	TN	\$13.00	\$278.60
			855194	6602695	21.25	TN	\$13.00	\$276.26
			855201	6600401	21.81	TN	\$13.00	\$283.54
			855202	6600401	22.26	TN	\$13.00	\$289.38
			855207	6602867	22.09	TN	\$13.00	\$287.18
			855223	6602448	21.05	TN	\$13.00	\$273.66
			855224	6602448	21.61	TN	\$13.00	\$280.94
			Subtotal		300.99			\$3,912.96
01/10/2019	003610	SURGE STONE						
			855270	6603176	21.58	TN	\$13.00	\$280.54
			855272	6603176	20.65	TN	\$13.00	\$268.46
			855280	6603176	21.67	TN	\$13.00	\$281.72
			855281	6603176	21.42	TN	\$13.00	\$278.46
			855326	6603176	21.24	TN	\$13.00	\$276.12
			855327	6603176	20.81	TN	\$13.00	\$270.54
			855346	6603176	22.12	TN	\$13.00	\$287.56
			855354	6603176	21.36	TN	\$13.00	\$277.68
			855384	6603176	21.40	TN	\$13.00	\$278.20
			855392	6603176	20.69	TN	\$13.00	\$268.98
			855413	6603176	20.11	TN	\$13.00	\$261.44
			855415	6603176	21.09	TN	\$13.00	\$274.18
			855438	6603176	21.05	TN	\$13.00	\$273.66

Total Units	Delivery	Material	Sales Tax	Severance Tax	Pay this Amount
679.66	\$0.00	\$8,835.76	\$817.31	\$0.00	\$9,653.07

CORP.	CUSTOMER	CENTER
038	37393210	0049

KIEWIT INFRASTRUCTURE
SOUTH CO. (NE)

REMITTANCE STUB

RETURN THIS STUB WITH PAYMENT TO:

Rogers Group, Inc.
PO BOX 102798

ATLANTA GA 30368-2798

INVOICE NO.

0049145236

PAY THIS AMOUNT

\$9,653.07

CORP.	CUSTOMER	CENTER
038	37393210	0049

INVOICE

INVOICE NO.

0049145236

SOLD TO:

KIEWIT INFRASTRUCTURE SOUTH CO.

P.O. BOX 452500

OMAHA, NE, 68145

Rogers Group, Inc.

Pottsville Quarry

Lewisburg TN 37091-6657

(931) 364-3494

INVOICE DATE 01/10/2019
 JOB NUMBER FKLN WRF MOD
 PO NUMBER FKLN WRF MOD
 TERMS 30 NET

Visit our web site: www.rgilink.com

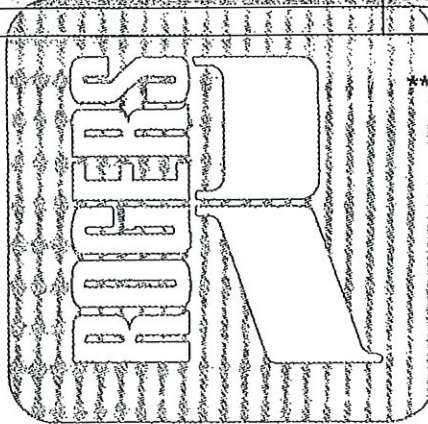
All amounts are in US dollars.

BY THIS DELIVERY WE ACQUIRE LIEN RIGHTS ON THE PROPERTY
 IMPROVED. NOTICE IS GIVEN THAT IF THIS INVOICE IS NOT PAID IN THE
 ORDINARY COURSE OF BUSINESS, THIS COMPANY WILL EXERCISE SAID
 RIGHTS.

A SERVICE CHARGE OF 1.5% PER MONTH, OR THE MAXIMUM RATE PERMITTED BY APPLICABLE STATE LAW, WHICHEVER IS LESSER, WILL BE ASSESSED AGAINST ALL DELINQUENT ACCOUNTS.

Date	Product	Product Name	Ticket	Hauler	Units	UOM	Unit Price	Amount
			855445	6603176	20.03	TN	\$13.00	\$260.40
			855473	6603176	20.85	TN	\$13.00	\$271.06
			855475	6603176	20.96	TN	\$13.00	\$272.48
			855493	6603176	20.52	TN	\$13.00	\$266.76
			855504	6603176	21.12	TN	\$13.00	\$274.56
		Subtotal			378.67			\$4,922.80

PRODUCT SUMMARY			
Product	Description	U.S. Tons (TN)	Amount
003610	SURGE STONE	679.66	\$8,835.76



*** Pay This Amount: \$9653.07***

ROGERS
GROUP INC.

CORP.	CUSTOMER	CENTER
038	37393210	0049

INVOICE

INVOICE NO.
0049145237

SOLD TO:

KIEWIT INFRASTRUCTURE SOUTH CO.
P.O. BOX 452500
OMAHA, NE, 68145

Rogers Group, Inc.
Pottsville Quarry
Lewisburg TN 37091-6657
(931) 364-3494

INVOICE DATE 01/11/2019
JOB NUMBER FRANKLIN WRF

PO NUMBER FRANKLIN WRF

TERMS 30 NET

Visit our web site: www.rgilink.com

All amounts are in US dollars.

BY THIS DELIVERY WE ACQUIRE LIEN RIGHTS ON THE PROPERTY IMPROVED. NOTICE IS GIVEN THAT IF THIS INVOICE IS NOT PAID IN THE ORDINARY COURSE OF BUSINESS, THIS COMPANY WILL EXERCISE SAID RIGHTS.

A SERVICE CHARGE OF 1.5% PER MONTH, OR THE MAXIMUM RATE PERMITTED BY APPLICABLE STATE LAW, WHICH EVER IS LESSER, WILL BE ASSESSED AGAINST ALL DELINQUENT ACCOUNTS

Date	Product	Product Name	Ticket	Hauler	Units	UOM	Unit Price	Amount
01/11/2019	003610	SURGE STONE						
			855540	6602588	20.85	TN	\$13.00	\$271.06
			855541	6602867	23.40	TN	\$13.00	\$304.20
			855549	6603321	21.92	TN	\$13.00	\$284.96
			855567	6603302	21.69	TN	\$13.00	\$281.98
			855591	6602588	22.41	TN	\$13.00	\$291.34
			855594	6603321	21.68	TN	\$13.00	\$281.84
			855613	6603302	21.51	TN	\$13.00	\$279.64
			855624	6602588	22.08	TN	\$13.00	\$287.04
			855627	6603321	21.41	TN	\$13.00	\$278.34
			855655	6603302	21.74	TN	\$13.00	\$282.62
			855669	6602588	21.57	TN	\$13.00	\$280.42
			855679	6603321	21.41	TN	\$13.00	\$278.34
			855706	6603302	20.55	TN	\$13.00	\$267.16
			855717	6602588	22.26	TN	\$13.00	\$289.38
		Subtotal			304.48			\$3,958.32

PRODUCT SUMMARY		U.S. Tons (TN)	Amount
Product	Description		
003610	SURGE STONE	304.48	\$3,958.32

ROGERS GROUP

Total Units	Delivery	Material	Sales Tax	Severance Tax	Pay this Amount
304.48	\$0.00	\$3,958.32	\$366.15	\$0.00	\$4,324.47

CORP.	CUSTOMER	CENTER
038	37393210	0049

REMITTANCE STUB

INVOICE NO.
0049145237

KIEWIT INFRASTRUCTURE
SOUTH CO. (NE)

RETURN THIS STUB WITH PAYMENT TO:

Rogers Group, Inc.
PO BOX 102798

PAY THIS AMOUNT
\$4,324.47

ATLANTA GA 30368-2798

CORP.	CUSTOMER	CENTER
038	37393210	0049

INVOICE

INVOICE NO.
0049146072

SOLD TO:

KIEWIT INFRASTRUCTURE SOUTH CO.

P.O. BOX 452500

OMAHA, NE, 68145

Rogers Group, Inc.

Pottsville Quarry

Lewisburg TN 37091-6657

(931) 364-3494

INVOICE DATE 02/05/2019
 JOB NUMBER FRANKLIN WRF

PO NUMBER FRANKLIN WRF

TERMS 30 NET

REPRINT

Visit our web site: www.rgilink.com

All amounts are in US dollars.

BY THIS DELIVERY WE ACQUIRE LIEN RIGHTS ON THE PROPERTY
 IMPROVED. NOTICE IS GIVEN THAT IF THIS INVOICE IS NOT PAID IN THE
 ORDINARY COURSE OF BUSINESS, THIS COMPANY WILL EXERCISE SAID
 RIGHTS.

A SERVICE CHARGE OF 1.5% PER MONTH, OR THE MAXIMUM RATE PERMITTED BY APPLICABLE STATE LAW, WHICH EVER IS LESSER, WILL BE ASSESSED AGAINST ALL DELINQUENT ACCOUNTS.

Date	Product	Product Name	Ticket	Hauler	Units	UOM	Unit Price	Amount
02/05/2019	003610	SURGE STONE						
			859143	6602867	21.54	TN	\$13.00	\$280.02
			859146	6603271	21.55	TN	\$13.00	\$280.16
			859147	6600401	21.61	TN	\$13.00	\$280.94
			859148	6600401	20.77	TN	\$13.00	\$270.02
			859155	6600401	21.90	TN	\$13.00	\$284.70
			859162	6603321	21.45	TN	\$13.00	\$278.86
			859163	6602588	21.16	TN	\$13.00	\$275.08
			859164	6602588	21.47	TN	\$13.00	\$279.12
			859166	6600401	21.62	TN	\$13.00	\$281.06
			859173	6602588	21.59	TN	\$13.00	\$280.68
			859188	6600401	21.42	TN	\$13.00	\$278.46
Subtotal					236.08			\$3,069.10

PRODUCT SUMMARY			
Product	Description	U.S. Tons (TN)	Amount
003610	SURGE STONE	236.08	\$3,069.10

Total Units	Delivery	Material	Sales Tax	Severance Tax	Pay this Amount
236.08	\$0.00	\$3,069.10	\$283.90	\$0.00	\$3,353.00

CORP.	CUSTOMER	CENTER	REMITTANCE STUB		INVOICE NO.
038	37393210	0049			0049146072
KIEWIT INFRASTRUCTURE SOUTH CO. (NE)			RETURN THIS STUB WITH PAYMENT TO:		PAY THIS AMOUNT
			Rogers Group, Inc. PO BOX 102798		\$3,353.00
			ATLANTA GA 30368-2798		

CORP.	CUSTOMER	CENTER
038	37393210	0049

INVOICE

INVOICE NO.
0049146275

SOLD TO:

KIEWIT INFRASTRUCTURE SOUTH CO.
P.O. BOX 452500
OMAHA, NE, 68145

Rogers Group, Inc.

Pottsville Quarry

Lewisburg TN 37091-6657

(931) 364-3494

INVOICE DATE 02/15/2019
JOB NUMBER FRANKLIN WRF

PO NUMBER FRANKLIN WRF

TERMS 30 NET

REPRINT

Visit our web site: www.rgilink.com

All amounts are in US dollars.

BY THIS DELIVERY WE ACQUIRE LIEN RIGHTS ON THE PROPERTY
IMPROVED. NOTICE IS GIVEN THAT IF THIS INVOICE IS NOT PAID IN THE
ORDINARY COURSE OF BUSINESS, THIS COMPANY WILL EXERCISE SAID
RIGHTS.

A SERVICE CHARGE OF 1.5% PER MONTH, OR THE MAXIMUM RATE PERMITTED BY APPLICABLE STATE LAW, WHICH EVER IS LESSER, WILL BE ASSESSED AGAINST ALL DELINQUENT ACCOUNTS.

Date	Product	Product Name	Ticket	Hauler	Units	UOM	Unit Price	Amount
02/15/2019	000233	TDOT GRADE D						
			860493	6600401	21.62	TN	\$12.50	\$270.25
			860498	6600401	20.67	TN	\$12.50	\$258.38
			Subtotal		42.29			\$528.63
02/15/2019	003610	SURGE STONE						
			860472	6602588	21.30	TN	\$13.00	\$276.90
			860473	6602867	21.53	TN	\$13.00	\$279.90
			860474	6602588	21.75	TN	\$13.00	\$282.76
			Subtotal		64.58			\$839.56

PRODUCT SUMMARY			
Product	Description	U.S. Tons (TN)	Amount
003610	SURGE STONE	64.58	\$839.56
000233	TDOT GRADE D	42.29	\$528.63

Total Units	Delivery	Material	Sales Tax	Severance Tax	Pay this Amount
106.87	\$0.00	\$1,368.19	\$126.55	\$0.00	\$1,494.74

CORP.	CUSTOMER	CENTER	REMITTANCE STUB		INVOICE NO.
038	37393210	0049			0049146275
KIEWIT INFRASTRUCTURE SOUTH CO. (NE)			RETURN THIS STUB WITH PAYMENT TO:		
			Rogers Group, Inc.		PAY THIS AMOUNT
			PO BOX 102798		\$1,494.74
			ATLANTA GA 30368-2798		

CORP.	CUSTOMER	CENTER
038	37393210	0049

INVOICE

INVOICE NO.
0049146381

SOLD TO:

KIEWIT INFRASTRUCTURE SOUTH CO.
P.O. BOX 452500
OMAHA, NE, 68145

Rogers Group, Inc.

Pottsville Quarry
Lewisburg TN 37091-6657
(931) 364-3494

INVOICE DATE 02/21/2019
JOB NUMBER FRANKLIN WRF

PO NUMBER FRANKLIN WRF

TERMS 30 NET

REPRINT

Visit our web site: www.rgilink.com

All amounts are in US dollars.

BY THIS DELIVERY WE ACQUIRE LIEN RIGHTS ON THE PROPERTY
IMPROVED. NOTICE IS GIVEN THAT IF THIS INVOICE IS NOT PAID IN THE
ORDINARY COURSE OF BUSINESS, THIS COMPANY WILL EXERCISE SAID
RIGHTS.

A SERVICE CHARGE OF 1.5% PER MONTH, OR THE MAXIMUM RATE PERMITTED BY APPLICABLE STATE LAW, WHICH EVER IS LESSER, WILL BE ASSESSED AGAINST ALL DELINQUENT ACCOUNTS.

Date	Product	Product Name	Ticket	Hauler	Units	UOM	Unit Price	Amount
02/18/2019	003610	SURGE STONE						
			860689	6602867	21.53	TN	\$13.00	\$279.90
			860690	6600401	21.57	TN	\$13.00	\$280.42
			860691	6600401	21.14	TN	\$13.00	\$274.82
			860692	6600401	21.47	TN	\$13.00	\$279.12
			860694	6600401	21.11	TN	\$13.00	\$274.44
			860695	6600401	21.25	TN	\$13.00	\$276.26
			860696	6602695	20.46	TN	\$13.00	\$265.98
			860697	6600401	20.57	TN	\$13.00	\$267.42
			860701	6600401	21.43	TN	\$13.00	\$278.60
			860705	6601597	20.76	TN	\$13.00	\$269.88
			860706	6600401	20.38	TN	\$13.00	\$264.94
			860709	6602588	21.29	TN	\$13.00	\$276.78
			860714	6601597	21.03	TN	\$13.00	\$273.40
			860716	6602867	21.94	TN	\$13.00	\$285.22
			860718	6600401	21.76	TN	\$13.00	\$282.88
			860720	6600401	21.50	TN	\$13.00	\$279.50
			860721	6600401	20.89	TN	\$13.00	\$271.58
			Subtotal		360.08			\$4,681.14
02/19/2019	003610	SURGE STONE						
			860763	6603321	21.10	TN	\$13.00	\$274.30
			860766	6602588	21.82	TN	\$13.00	\$283.66
			860770	6602695	21.95	TN	\$13.00	\$285.36
			860771	6603457	21.87	TN	\$13.00	\$284.32
			860772	6602588	22.06	TN	\$13.00	\$286.78
			860782	6602588	21.65	TN	\$13.00	\$281.46
			860786	6602588	22.35	TN	\$13.00	\$290.56
			860788	6600401	20.92	TN	\$13.00	\$271.96
			860796	6603321	21.18	TN	\$13.00	\$275.34
			860800	6602695	21.53	TN	\$13.00	\$279.90

Total Units	Delivery	Material	Sales Tax	Severance Tax	Pay this Amount
1,136.33	\$0.00	\$15,086.51	\$1,395.41	\$0.00	\$16,481.92

CORP.	CUSTOMER	CENTER	REMITTANCE STUB		INVOICE NO.
038	37393210	0049			0049146381
KIEWIT INFRASTRUCTURE SOUTH CO. (NE)			RETURN THIS STUB WITH PAYMENT TO:		
			Rogers Group, Inc. PO BOX 102798		PAY THIS AMOUNT
			ATLANTA GA 30368-2798		\$16,481.92

CORP.	CUSTOMER	CENTER
038	37393210	0049

INVOICE

INVOICE NO.
0049146381

SOLD TO:

KIEWIT INFRASTRUCTURE SOUTH CO.
P.O. BOX 452500
OMAHA, NE, 68145

Rogers Group, Inc.

Pottsville Quarry

Lewisburg TN 37091-6657

(931) 364-3494

INVOICE DATE 02/21/2019
JOB NUMBER FRANKLIN WRF

PO NUMBER FRANKLIN WRF

TERMS 30 NET

REPRINT

Visit our web site: www.rgilink.com

All amounts are in US dollars.

BY THIS DELIVERY WE ACQUIRE LIEN RIGHTS ON THE PROPERTY
IMPROVED. NOTICE IS GIVEN THAT IF THIS INVOICE IS NOT PAID IN THE
ORDINARY COURSE OF BUSINESS, THIS COMPANY WILL EXERCISE SAID
RIGHTS.

A SERVICE CHARGE OF 1.5% PER MONTH, OR THE MAXIMUM RATE PERMITTED BY APPLICABLE STATE LAW, WHICH EVER IS LESSER, WILL BE ASSESSED AGAINST ALL DELINQUENT ACCOUNTS.

Date	Product	Product Name	Ticket	Hauler	Units	UOM	Unit Price	Amount
			860801	6600401	20.64	TN	\$13.00	\$268.32
			860805	6602588	21.44	TN	\$13.00	\$278.72
			860806	6602867	22.60	TN	\$13.00	\$293.80
			860807	6600401	21.24	TN	\$13.00	\$276.12
			860814	6602588	21.89	TN	\$13.00	\$284.58
			860821	6600401	21.70	TN	\$13.00	\$282.10
			860822	6602588	22.23	TN	\$13.00	\$289.00
			860825	6600401	21.42	TN	\$13.00	\$278.46
			860838	6602867	21.72	TN	\$13.00	\$282.36
			860840	6600401	21.31	TN	\$13.00	\$277.04
			860842	6600401	21.92	TN	\$13.00	\$284.96
			860843	6602588	22.18	TN	\$13.00	\$288.34
			860844	6602867	21.63	TN	\$13.00	\$281.20
			860845	6600401	20.88	TN	\$13.00	\$271.44
			860846	6602695	21.59	TN	\$13.00	\$280.68
			860847	6602588	21.93	TN	\$13.00	\$285.10
			860855	6602867	21.99	TN	\$13.00	\$285.88
			860857	6600401	20.78	TN	\$13.00	\$270.14
			860859	6600401	21.72	TN	\$13.00	\$282.36
			860860	6600401	21.39	TN	\$13.00	\$278.08
			860862	6600401	21.34	TN	\$13.00	\$277.42
			860863	6602588	22.14	TN	\$13.00	\$287.82
			860868	6600401	21.35	TN	\$13.00	\$277.56
		Subtotal			713.46			\$9,275.12
02/21/2019	000057	3/4" TO 1" STONE						
			860977	6601597	20.67	TN	\$18.00	\$372.07
			861004	6600401	21.31	TN	\$18.00	\$383.59
			861006	6602695	20.81	TN	\$18.00	\$374.59
		Subtotal			62.79			\$1,130.25

PRODUCT SUMMARY			
Product	Description	U.S. Tons (TN)	Amount
000057	3/4" TO 1" STONE	62.79	\$1,130.25
003610	SURGE STONE	1,073.54	\$13,956.26

CORP.	CUSTOMER	CENTER
038	37393210	0049

INVOICE

INVOICE NO.
0049146577

SOLD TO:

KIEWIT INFRASTRUCTURE SOUTH CO.

P.O. BOX 452500

OMAHA, NE, 68145

Rogers Group, Inc.

Pottsville Quarry

Lewisburg TN 37091-6657

(931) 364-3494

INVOICE DATE 03/01/2019
 JOB NUMBER FRANKLIN WRF

PO NUMBER FRANKLIN WRF

TERMS 30 NET

REPRINT

Visit our web site: www.rgilink.com

All amounts are in US dollars.

BY THIS DELIVERY WE ACQUIRE LIEN RIGHTS ON THE PROPERTY
 IMPROVED. NOTICE IS GIVEN THAT IF THIS INVOICE IS NOT PAID IN THE
 ORDINARY COURSE OF BUSINESS, THIS COMPANY WILL EXERCISE SAID
 RIGHTS.

A SERVICE CHARGE OF 1.5% PER MONTH, OR THE MAXIMUM RATE PERMITTED BY APPLICABLE STATE LAW, WHICH EVER IS LESSER, WILL BE ASSESSED AGAINST ALL DELINQUENT ACCOUNTS.

Date	Product	Product Name	Ticket	Hauler	Units	UOM	Unit Price	Amount
02/25/2019	003610	SURGE STONE						
			861130	6601597	20.35	TN	\$13.00	\$264.56
			861131	6601597	21.10	TN	\$13.00	\$274.30
			861135	6602588	22.72	TN	\$13.00	\$295.36
			861159	6600401	20.75	TN	\$13.00	\$269.76
			861162	6600401	21.86	TN	\$13.00	\$284.18
			861165	6601597	21.40	TN	\$13.00	\$278.20
			861244	6600401	21.50	TN	\$13.00	\$279.50
			861248	6601597	20.41	TN	\$13.00	\$265.34
			861249	6602588	22.17	TN	\$13.00	\$288.22
		Subtotal			192.26			\$2,499.42
02/27/2019	000233	TDOT GRADE D						
			861887	6600401	21.48	TN	\$12.50	\$268.50
			861888	6602867	21.20	TN	\$12.50	\$265.00
			861894	6603457	21.89	TN	\$12.50	\$273.63
			861897	6603176	20.74	TN	\$12.50	\$259.25
		Subtotal			85.31			\$1,066.38
02/27/2019	003610	SURGE STONE						
			861657	6603176	20.98	TN	\$13.00	\$272.74
			861658	6602588	21.42	TN	\$13.00	\$278.46
			861687	6600401	20.97	TN	\$13.00	\$272.62
			861727	6602588	21.43	TN	\$13.00	\$278.60
			861737	6602867	21.70	TN	\$13.00	\$282.10
			861741	6603176	21.03	TN	\$13.00	\$273.40
			861783	6600401	20.85	TN	\$13.00	\$271.06
			861793	6602588	22.79	TN	\$13.00	\$296.28
			861803	6600401	22.09	TN	\$13.00	\$287.18
			861806	6602867	22.38	TN	\$13.00	\$290.94
			861823	6603176	21.01	TN	\$13.00	\$273.14
			861849	6600401	21.10	TN	\$13.00	\$274.30

Total Units	Delivery	Material	Sales Tax	Severance Tax	Pay this Amount
834.79	\$0.00	\$10,691.21	\$988.96	\$0.00	\$11,680.17

CORP.	CUSTOMER	CENTER	REMITTANCE STUB	INVOICE NO.
038	37393210	0049		0049146577
KIEWIT INFRASTRUCTURE SOUTH CO. (NE)			RETURN THIS STUB WITH PAYMENT TO:	
			Rogers Group, Inc.	
			PO BOX 102798	
			ATLANTA GA 30368-2798	
				PAY THIS AMOUNT
				\$11,680.17

CORP.	CUSTOMER	CENTER
038	37393210	0049

INVOICE

INVOICE NO.
0049146577

SOLD TO:

KIEWIT INFRASTRUCTURE SOUTH CO.

P.O. BOX 452500

OMAHA, NE, 68145

Rogers Group, Inc.

Pottsville Quarry

Lewisburg TN 37091-6657

(931) 364-3494

INVOICE DATE 03/01/2019
 JOB NUMBER FRANKLIN WRF

PO NUMBER FRANKLIN WRF

TERMS 30 NET

REPRINT

Visit our web site: www.rglink.com

All amounts are in US dollars.

BY THIS DELIVERY WE ACQUIRE LIEN RIGHTS ON THE PROPERTY
 IMPROVED. NOTICE IS GIVEN THAT IF THIS INVOICE IS NOT PAID IN THE
 ORDINARY COURSE OF BUSINESS, THIS COMPANY WILL EXERCISE SAID
 RIGHTS.

A SERVICE CHARGE OF 1.5% PER MONTH, OR THE MAXIMUM RATE PERMITTED BY APPLICABLE STATE LAW, WHICH EVER IS LESSER, WILL BE ASSESSED AGAINST ALL DELINQUENT ACCOUNTS.

Date	Product	Product Name	Ticket	Hauler	Units	UOM	Unit Price	Amount
			861850	6602904	20.86	TN	\$13.00	\$271.18
			861857	6602588	20.64	TN	\$13.00	\$268.32
			861881	6600401	20.88	TN	\$13.00	\$271.44
			Subtotal		320.13			\$4,161.76
02/28/2019	000233	TDOT GRADE D						
			861941	6602867	22.04	TN	\$12.50	\$275.50
			861965	6602867	21.82	TN	\$12.50	\$272.75
			861974	6602588	21.07	TN	\$12.50	\$263.38
			862029	6602867	22.33	TN	\$12.50	\$279.13
			862031	6602867	21.81	TN	\$12.50	\$272.63
			Subtotal		109.07			\$1,363.39
03/01/2019	000233	TDOT GRADE D						
			862181	6601597	21.82	TN	\$12.50	\$272.75
			862188	6601597	20.54	TN	\$12.50	\$256.75
			862207	6602867	22.26	TN	\$12.50	\$278.25
			862209	6601597	21.11	TN	\$12.50	\$263.88
			862211	6602904	20.94	TN	\$12.50	\$261.75
			862212	6603211	21.35	TN	\$12.50	\$266.88
			Subtotal		128.02			\$1,600.26

PRODUCT SUMMARY			
Product	Description	U.S. Tons (TN)	Amount
003610	SURGE STONE	512.39	\$6,661.18
000233	TDOT GRADE D	322.40	\$4,030.03



INVOICE

T&W CONSTRUCTION, LLC
 2405 Lasonya Ln, Horn Lake, MS
 38637 (901) 870-1253; (662) 470-7135
 twconstruction2015@gmail.com

DATE 12/22-1/13/2019
 STATEMENT #2

BILL TO Kiewit Infrastructure south Co.
 Attn: Michael Sheston
PROJECT: Franklin WRF Modifications & Expansion Project

DATE	TRUCK#	IN	OUT	TOTAL HOURS	WEEKLY HOURS
1/02/2019	TW07	7:00 am	6:00 pm	11.0	11.0
1/07/2019	TW07	7:00 am	4:30 pm	9.5	20.5
1/08/2019	TW07	7:00 am	5:00 pm	10.0	30.5
1/09/2019	TW07	7:00 am	12:00pm	5.0	35.5
Total hours					35.5

REMITTANCE

Statement #	#2
Date	1/11/2019
Amount Due	\$3,195.00
Amount Enclosed	

Make all checks payable to T&W CONSTRUCTION, LLC

Thank you for your business!

Rental Rate Blue Book®

April 29, 2019

Caterpillar 336F

Crawler Mounted Hydraulic Excavators



Size Class:

33.1 - 40.0 MTons

Weight:

MT

Configuration for 336F

Bucket Capacity - Heaped
Operating Weight

2.8

8400.0

Net Horsepower
Power Mode

303.0

Diesel

Blue Book Rates

** FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs	FHWA Rate**
	Monthly	Weekly	Daily	Hourly	Hourly	Hourly
Published Rates	\$14,205.00	\$3,975.00	\$995.00	\$150.00	\$38.15	\$118.86
Adjustments						
Region (100%)	-	-	-	-		
Model Year (2019: 100%)	-	-	-	-		
Adjusted Hourly Ownership Cost (100%)	-	-	-	-		
Hourly Operating Cost (100%)					-	
Total:	\$14,205.00	\$3,975.00	\$995.00	\$150.00	\$38.15	\$118.86

Non-Active Use Rates

Standby Rate
Idling Rate

Hourly

\$41.97

\$80.71

Rate Element Allocation

Element	Percentage	Value
Depreciation (ownership)	36%	\$5,113.80/mo
Overhaul (ownership)	48%	\$6,818.40/mo
CFC (ownership)	9%	\$1,278.45/mo
Indirect (ownership)	7%	\$994.35/mo

Fuel cost data is not available for these rates.

Revised Date: 1st half 2019

These are the most accurate rates for the selected Revision Date(s). However, due to more frequent online updates, these rates may not match Rental Rate Blue Book Print. Visit the Cost Recovery Product Guide on our Help page for more information.

The equipment represented in this report has been exclusively prepared for MICHAEL SHESTON (Michael.Sheston@kiewit.com)

Rental Rate Blue Book®

April 10, 2019

Caterpillar CS-56 (disc. 2012)

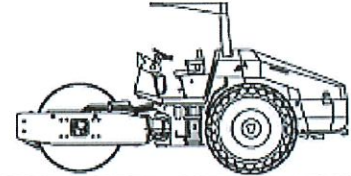
Single Drum Vibratory Compactors

Size Class:

8.0 - 11.9 MTons

Weight:

25164 MT


Configuration for CS-56 (disc. 2012)

Drum Type	Smooth	Drum Width	84.0
Net Horsepower	143.0	Power Mode	Diesel

Blue Book Rates

** FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs	FHWA Rate**
	Monthly	Weekly	Daily	Hourly	Hourly	Hourly
Published Rates	\$4,960.00	\$1,390.00	\$350.00	\$53.00	\$37.85	\$66.03
Adjustments						
Region (100%)	-	-	-	-		
Model Year (2012: 100%)	-	-	-	-		
Adjusted Hourly Ownership Cost (100%)	-	-	-	-		
Hourly Operating Cost (100%)					-	
Total:	\$4,960.00	\$1,390.00	\$350.00	\$53.00	\$37.85	\$66.03

Non-Active Use Rates

	Hourly
Standby Rate	\$20.29
Idling Rate	\$40.34

Rate Element Allocation

Element	Percentage	Value
Depreciation (ownership)	48%	\$2,380.80/mo
Overhaul (ownership)	28%	\$1,388.80/mo
CFC (ownership)	13%	\$644.80/mo
Indirect (ownership)	11%	\$545.60/mo
Fuel (operating) @ 3.27	32%	\$12.16/hr

Revised Date: 1st half 2019

These are the most accurate rates for the selected Revision Date(s). However, due to more frequent online updates, these rates may not match Rental Rate Blue Book Print. Visit the Cost Recovery Product Guide on our Help page for more information.

The equipment represented in this report has been exclusively prepared for MICHAEL SHESTON (Michael.Sheston@kiewit.com)

Rental Rate Blue Book®

April 10, 2019

Caterpillar D5K LGP (disc. 2015)

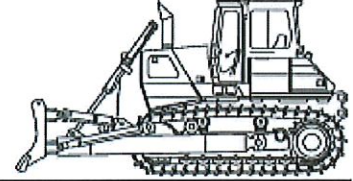
Lgp Crawler Dozers

Size Class:

85 - 104 HP

Weight:

21347 HP


Configuration for D5K LGP (disc. 2015)

Dozer Type	VPAT	Net Horsepower	96.0
Operator Protection	ROPS/FOPS	Power Mode	Diesel

Blue Book Rates

** FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs	FHWA Rate**
	Monthly	Weekly	Daily	Hourly	Hourly	Hourly
Published Rates	\$6,525.00	\$1,825.00	\$455.00	\$68.00	\$35.40	\$72.47
Adjustments						
Region (100%)	-	-	-	-		
Model Year (2015: 100%)	-	-	-	-		
Adjusted Hourly Ownership Cost (100%)	-	-	-	-		
Hourly Operating Cost (100%)					-	
Total:	\$6,525.00	\$1,825.00	\$455.00	\$68.00	\$35.40	\$72.47

Non-Active Use Rates

	Hourly
Standby Rate	\$16.31
Idling Rate	\$50.25

Rate Element Allocation

Element	Percentage	Value
Depreciation (ownership)	28%	\$1,827.00/mo
Overhaul (ownership)	56%	\$3,654.00/mo
CFC (ownership)	9%	\$587.25/mo
Indirect (ownership)	7%	\$456.75/mo
Fuel (operating) @ 3.27	37%	\$13.18/hr

Revised Date: 1st half 2019

These are the most accurate rates for the selected Revision Date(s). However, due to more frequent online updates, these rates may not match Rental Rate Blue Book Print. Visit the Cost Recovery Product Guide on our Help page for more information.

The equipment represented in this report has been exclusively prepared for MICHAEL SHESTON (Michael.Sheston@kiewit.com)

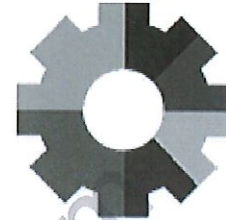
Rental Rate Blue Book®

April 29, 2019

Ford F-250 SD

On-Highway Light Duty Trucks

Size Class:
300 HP & Over
Weight:
HP


Configuration for F-250 SD

Axle Configuration	4.0 X 4.0	Cab Type	Crew
Horsepower	300.0	Power Mode	Gasoline
Ton Rating	3.0 / 4.0		

Blue Book Rates

** FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs	FHWA Rate**
	Monthly	Weekly	Daily	Hourly	Hourly	Hourly
Published Rates	\$890.00	\$250.00	\$63.00	\$9.00	\$19.65	\$24.71
Adjustments						
Region (100%)	-	-	-	-		
Model Year (2019: 100%)	-	-	-	-		
Adjusted Hourly Ownership Cost (100%)	-	-	-	-		
Hourly Operating Cost (100%)					-	
Total:	\$890.00	\$250.00	\$63.00	\$9.00	\$19.65	\$24.71

Non-Active Use Rates

	Hourly
Standby Rate	\$3.59
Idling Rate	\$20.74

Rate Element Allocation

Element	Percentage	Value
Depreciation (ownership)	54%	\$480.60/mo
Overhaul (ownership)	29%	\$258.10/mo
CFC (ownership)	7%	\$62.30/mo
Indirect (ownership)	10%	\$89.00/mo
Fuel (operating) @ 2.75	80%	\$15.68/hr

Revised Date: 1st half 2019

These are the most accurate rates for the selected Revision Date(s). However, due to more frequent online updates, these rates may not match Rental Rate Blue Book Print. Visit the Cost Recovery Product Guide on our Help page for more information.

The equipment represented in this report has been exclusively prepared for MICHAEL SHESTON (Michael.Sheston@kiewit.com)



Kiewit

Kiewit Infrastructure South Co.
4800 North Point Parkway, Suite 100
Alpharetta, GA 30022

May 12, 2020

To: Attn: Mr. Dan Harris

CP-KIEWIT-00016.00

CDM Smith, Inc.
210 25th Avenue North
Suite 1102
Nashville, TN 37203

Reference: Franklin WRF Modifications & Expansion Project
COF Contract No. 2017-0264

Subject: Cost Proposal 16 – BNR Ductbank Redirection

Dear Mr. Harris,

Attached you will find Kiewit's credit proposal for the **BNR Ductbank Redirection**. Kiewit offers a credit of **Twenty Eight Thousand Six Hundred Sixty-Two Dollars (\$28,662.00)**

This proposal is to redirect the BNR Duct Bank 10 directly to the BNR-1 and BNR-2 Panelboards, instead of routing the conduits to the CMH-3 and PMH-3 manholes. The credit consists of shortening the wire lengths to the equipment. Duct bank run to be verified by engineer prior to construction. Work to be completed by Wayne J. Griffin Electric Inc.

If you have any questions, please do not hesitate to contact me at (678) 794-2121.

Sincerely,

Steve Davis
Project Manager

cc: File
Michelle Hatcher

[illegible]



**WAYNE J.
GRIFFIN ELECTRIC
INC.**

April 27, 2020

VIA EMAIL ONLY: Steven.Davis1@kiewit.com

Mr. Steven Davis, Project Manager
Kiewit
135 Claude Yates Drive
Franklin, TN 37064

RE: Job #6198 - Franklin WRF Mods and Exp, Franklin, TN
Proposal #27

Dear Mr. Davis:

Wayne J. Griffin Electric, Inc. ("WJGEI") proposes to modify our contract to perform the following lump sum revisions to our work per our enclosed detailed backup:

DESCRIPTION OF WORK:

This proposal is to redirect the BNR Duct Bank 10 directly to the BNR-1 and BNR-2 Panelboards, instead of routing the conduits to the CMH-3 and PMH-3 manholes. The credit consists of shortening the wire lengths to the equipment.

Material	\$ (19,791.59)
Labor	(6,206.05)
Overhead & Profit	(1,299.88)
Total	\$ (27,297.52)

This is a lump sum forward looking estimate of the above-noted change to our scope of work. This estimate represents a price we are willing to accept to assume the cost risk of this change to our ongoing work given the information provided to us. The labor and material prices contained in this proposal are based upon vendor/subcontractor quotes (if noted) and/or electrical industry pricing guides such as NECA, Trade Service, or R.S. Means, which guides are widely used and accepted in the construction industry to facilitate timely and consistent change order pricing. This estimate is offered for your review, approval and acceptance.

Corporate Headquarters:
116 Hopping Brook Road
Holliston, MA 01746
Phone: (508) 429-8830
Fax: (508) 429-7825

Regional Offices:

296 Cahaba Valley Parkway
Pelham, AL 35124
Phone: (205) 733-8848
Fax: (205) 733-8107

1950 Evergreen Boulevard
Suite 300
Duluth, GA 30096
Phone: (678) 417-9377
Fax: (678) 417-9373

2310 Presidential Drive
Suite 101
Durham, NC 27703
Phone: (919) 627-9724
Fax: (919) 627-9727

9801-C Southern Pine Boulevard
Charlotte, NC 28273
Phone: (704) 522-3851
Fax: (704) 522-3856

Mr. Steven Davis
April 27, 2020
Page 2

The value included in this proposal does not include any amounts for extended contract duration, overtime, changes in the sequence of work, acceleration, disruptions, interference and/or impacts, and the right is expressly reserved to recover any and all of these related items prior to any final settlement of this contract. The working relationship between your company and ours shall be in accordance with our mutually agreed to contract form.

Wayne J. Griffin Electric, Inc. reserves the right to void this proposal after thirty (30) days from the date above.

If you have any questions regarding the above, please do not hesitate to contact me at (205) 733-8848 ext. 6175 or troberson@wjgei.com.

Very truly yours,

WAYNE J. GRIFFIN ELECTRIC, INC.



Timothy R. Roberson
Project Manager

TRR/jmr

ACKNOWLEDGMENT: The contract modifications stated for the above proposal are acceptable for the work to be performed. The value of the work completed to the date of the next requisition may be billed on that requisition.

Date: _____ Authorized Signature: _____

cc: Corbin Coker, Engineer, Kiewit, Corbin.Coker@Kiewit.com
Calvin Mize, Regional Manager, Wayne J. Griffin Electric, Inc.



116 Hopping Brook Road, Holliston, MA 01746
(508) 429-8830 FAX (508) 429-9251

CCN#: P-0027, Credit to Re-route BNR Duct Bank to B
Date: 4/24/2020
Project Name: Franklin WRF Mods and Exp
Project Number: 06198-00-18
Page Number: 1

Work Description

This proposal is to redirect the BNR Duct Bank 10 directly to the BNR-1 and BNR-2 Panelboards, instead of routing the conduits to the CMH-3 and PMH-3 manholes. The credit consists of shortening the wire lengths to the equipment.

Itemized Breakdown

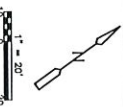
Description	Qty	Net Price	UM	Materials (\$)	Labor	Total Hours
As Builts	0.00	0.0000	HRS	0.000	0.000	0.000
Cleanup	0.00	0.0000	HRS	0.000	0.000	0.000
Tools	0.00	0.0000	HRS	0.000	0.000	0.000
Field Safety/JHA	0.00	0.0000	HRS	0.000	0.000	0.000
Supervision	0.00	0.0000	HRS	0.000	0.000	0.000
Project Controls	0.00	0.0000	HRS	0.000	0.000	0.000
#4 XHHW COPPER WIRE	-160.00	0.9493	FT	-151.890	0.015	-2.400
4/0 XHHW COPPER WIRE	-480.00	4.9633	FT	-2,382.380	0.033	-15.840
#250 USE-RHH-RHW STRANDED COPPER WIRE	-360.00	6.1863	FT	-2,227.070	0.036	-12.960
#600 USE-RHH-RHW STRANDED COPPER WIRE	-1,080.00	13.9169	FT	-15,030.250	0.052	-56.160
Totals				-19,791.59		-87.36
Tax				0.00		
Materials with				-19,791.59		

Summary

Itemized Breakdown Total		-19,791.59
Elect. Journeyman	(-87.3600 hrs @ \$71.04 / hr)	-6,206.05
		-6,206.05
Overhead & Profit	(\$-25,997.64 @ 5.00%)	-1,299.88
		-1,299.88
		-1,299.88
Total		-\$27,297.52

NOTES:

1. PROVIDE POLE CONNECTION AND RISER PER MTEC REQUIREMENTS. COORDINATE POLE LOCATIONS WITH MTEC PRIOR TO ERECT INSTALLATION.



Page 97 of 468



Kiewit

Kiewit Infrastructure South Co.
4800 North Point Parkway, Suite 100
Alpharetta, GA 30022

May 21, 2020

To: Attn: Mr. Dan Harris

CP-KIEWIT-00020.00

CDM Smith, Inc.
210 25th Avenue North
Suite 1102
Nashville, TN 37203

Reference: Franklin WRF Modifications & Expansion Project
COF Contract No. 2017-0264

Subject: RFI 288 – Existing MH Tie-In Change Proposal

Dear Mr. Harris,

Attached you will find Kiewit's change proposal for the tie-in of the 20" FEQ-E-DI (RJ) from the Flow Equalization Tank to the Existing Manhole located near the Harpeth River. This proposal reflects the additional cost to construct an outside drop connection per Detail L on Sheet CD-6 in lieu of an interior drop connection per Detail C on Sheet CD-11. The source of this proposed change originated after Kiewit and City of Franklin plant staff investigated the interior of the existing manhole and discovered conditions that differed from what was shown on the Contract Documents. It appears that the existing 24" influent pipe shown at the bottom of the existing manhole at an invert elevation of 591.5 +/- per sheet CD-11, C-3, & C-51 is actually an exterior drop with a top penetration through the wall of the manhole at an elevation that would prohibit Kiewit from installing an interior drop unless the flow from the 24" influent pipe is shut down for a period of time greater than 2 hours. This existing condition was not identified on the Contract Documents and it is Kiewit's position that if an interior drop is required, a separate change proposal would be required to restrict the flow of the existing 24" influent pipe.

It is Kiewit's position that the piping material and supports is a net zero cost change and the additional costs for this proposal include excavation, concrete, backfilling, and one extra core drill hole. Furthermore, this proposal is based on the existing 24" force main from Westhaven being temporarily shutdown per the response to RFI 288 which stated, "The existing force main may be shut down for a maximum of 2 hours, depending upon flows". This shut down will allow Kiewit adequate time to complete the core drill for the bottom connection. Additionally, CDM Smith and the City of Franklin have requested Kiewit provide pricing for coating the inside of the existing manhole. Pricing for coating the inside of the manhole is not included in this proposal but will be submitted at a later date.

Kiewit offers a price of **Twelve Thousand Four Hundred Sixty-Nine Dollars (\$12,469)** to complete this work.

If you have any questions, please do not hesitate to contact me at (678) 794-2121.

Sincerely,



Kiewit

Kiewit Infrastructure South Co.
4800 North Point Parkway, Suite 100
Alpharetta, GA 30022

Michael Sheston on behalf of Steve Davis (Project Manager)

cc: File

Michelle Hatcher

Kiewit Infrastructure South Co.
4405 International Blvd, Suite #C101
Norcross, Georgia 30093



DATE: 05-19-19

PCO NO.:

PREPARED BY: Michael Sheston

DESCRIPTION	QTY	UNIT	MH Per Unit	Total MH	DIRECT LABOR		INDIRECT LABOR		MATERIAL		CONST. EQUIPMENT		SUBCONTRACT		OTHER		TOTAL AMOUNT
					Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	
					\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
RFI 288 - 20" FEQ Tie-In at Existing MH					\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Install Exterior Drop Connection (Detail L on CD-6)					\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
					\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Excavate & Install Trench Box for exterior vertical drop	10.00	CY	2.00	20	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Kiewit Foreman	5.00	MHR	1.00	5	\$ 62.87	\$ 314.36	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 314.36
Pipe Layer	10.00	MHR	1.00	10	\$ 50.03	\$ 500.27	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 500.27
Excavator Operator	5.00	MHR	1.00	5	\$ 41.06	\$ 205.28	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 205.28
CAT 345 Excavator	5.00	HR			\$ -	\$ -	\$ -	\$ -	\$ -	\$ 190.12	\$ 950.60	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 950.60
Crew Pickup F-250	5.00	HR			\$ -	\$ -	\$ -	\$ -	\$ -	\$ 24.11	\$ 120.55	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 120.55
Trench Box Rental	1.00	Wk			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 904.00	\$ -	\$ 904.00	\$ 904.00
					\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Additional Core Drill (24" Diameter x 8" Wall Thickness)	1.00	EA			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
K&H Culling & Coring	1.00	EA			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 311.60	\$ 311.60	\$ -	\$ -	\$ -	\$ 311.60
Kiewit Foreman	4.00	MHR	1.00	4	\$ 62.87	\$ 251.48	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 251.48
Forklift Operator	4.00	MHR	1.00	4	\$ 47.84	\$ 191.37	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 191.37
Crew Pickup F-250	4.00	HR			\$ -	\$ -	\$ -	\$ -	\$ -	\$ 24.11	\$ 96.44	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 96.44
Xtreme XR1055 Forklift	4.00	HR			\$ -	\$ -	\$ -	\$ -	\$ -	\$ 60.00	\$ 240.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 240.00
					\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Form/Place/Strike 8" Concrete Encasement	3.00	CY	20.00	60	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Kiewit Foreman	15.00	MHR	1.00	15	\$ 62.87	\$ 943.07	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 943.07
Carpenter Journeyman	30.00	MHR	1.00	30	\$ 42.20	\$ 1,265.97	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,265.97
Forklift Operator	15.00	MHR	1.00	15	\$ 47.84	\$ 717.65	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 717.65
Xtreme XR1055 Forklift	15.00	HR			\$ -	\$ -	\$ -	\$ -	\$ -	\$ 60.00	\$ 900.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 900.00
Crew Pickup F-250	15.00	HR			\$ -	\$ -	\$ -	\$ -	\$ -	\$ 24.11	\$ 361.65	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 361.65
Purchase 3000 psi Concrete (SRM)	3.00	CY			\$ -	\$ -	\$ -	\$ -	\$ 101.00	\$ 303.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 303.00
Short Load Delivery (SRM)	1.00	EA			\$ -	\$ -	\$ -	\$ -	\$ 65.00	\$ 65.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 65.00
Formwork Plywood & Lumber	60.00	SF			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5.00	\$ 300.00	\$ 300.00	\$ 300.00
Support Beam & Bracing for Pipe During Concrete Placement	1.00	PLS			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 200.00	\$ 200.00	\$ 200.00	\$ 200.00
					\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Backfill	7.00	CY	1.70	12	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Kiewit Foreman	3.00	MHR	1.00	3	\$ 62.87	\$ 188.61	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 188.61
Pipe Layer	6.00	MHR	1.00	6	\$ 50.03	\$ 300.16	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 300.16
Loader Operator	3.00	MHR	1.00	3	\$ 41.06	\$ 123.17	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 123.17
CAT 93B Loader	3.00	HR			\$ -	\$ -	\$ -	\$ -	\$ -	\$ 72.13	\$ 216.39	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 216.39
Crew Pickup F-250	3.00	HR			\$ -	\$ -	\$ -	\$ -	\$ -	\$ 24.11	\$ 72.33	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 72.33
Walk Behind Roller	3.00	HR			\$ -	\$ -	\$ -	\$ -	\$ -	\$ 27.63	\$ 82.89	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 82.89
					\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
					\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
					\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
					\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
					\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
					\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
OTHER					\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
BTB - small tools, consumables, safety equip, (5% of direct labor, plus 9.75% sales tax: Formula = Total Direct Labor Subtotal * .05 * 1.0925)	1	MHR			\$ -	\$ -									\$ 250.07	\$ 250.07	\$ 250.07
TAX: (9.75% of Material, Equipment, Other)										\$35.88	\$296.48					\$161.27	\$ 493.63
BOND (2% of total)																	\$ -
SUBTOTALS				100		\$ 5,001.40		\$ -		\$ 403.88		\$ 3,337.33		\$ 311.60		\$ 1,815.34	\$ 10,869.56
MARKUP %						15.00%		15.00%		15.00%		15.00%		5.00%		15.00%	\$ 1,599.27
SUBTOTALS WITH MARKUPS APPLIED						\$5,751.61				\$464.46		\$3,837.93		\$327.18		\$2,087.64	\$ 12,468.83
BOND																	\$ -
TOTAL																	\$12,469.00

Request for Information

Project Name: Franklin WRF Modifications & Expansion Project		
Owner's Project No.: 2017-0264	CDM Smith Project No.: 14915-96594-WRF	
Contractor: Kiewit Infrastructure South Co.	RFI No.: 288	
	Date: April 17, 2020	
Subject: 20" FEQ Tie-In at Existing MH		
Spec Section: 01046	Drawing: C-18, CD-11	Detail: CD-11 Detail "C"

QUESTION:

Kiewit requests additional information regarding the tie-in of the new 20" FEQ-DI pipeline to the existing manhole north of the new 8 ft diameter valve vault.

- Is the 20" pipe drop inside of the existing manhole (shown on Detail C of CD-11) required? If so, how will the flow of the 24" pumped pipeline from the existing sub-division be controlled while this pipe drop is being installed?
- Is an outside drop acceptable? If so, please provide a detail for this. Also, Kiewit requests measures for controlling the flow of the 24" pumped pipeline from the existing sub-division while the work for core-drilling into the manhole and grouting the connection occurs.
- Can the 24" pumped pipeline be shutdown at night for longer time frames that will allow Kiewit to do the work?
- Is the City of Franklin interested in doing any repair work to the existing manhole and possibly coating the interior of the manhole?
- The design 20" invert elevation at the MH tie-in is 605.00, the top of the 8' sq. flat top is 607.22. The invert elevation will need to be lowered to accommodate the internal tee and provide a sufficient gap for water overflow and fish snake insertion between the bottom of the flat top and the top of the tee fitting. What is the new invert elevation?

Please Respond by This Date: May 1, 2020

Submitted by Contractor: Michael Sheston	Date: April 17, 2020
---	-----------------------------

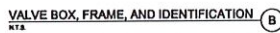
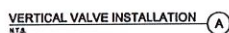
Received by (CDM Smith):	Date:
---------------------------------	--------------

RESPONSE:

An exterior drop per L/CD-6 and lining of the existing manhole will be considered upon receipt of acceptable cost proposals from Kiewit. The existing force main may be shut down for a maximum of 2 hours, depending upon flows. Control of water is within the contractor's means and methods, submit for Engineer review. Corrected invert elevations are 602.55 for interior drop, 604.00 for exterior.

By: Dan Harris	Date: 5/5/20
-----------------------	---------------------

Distribution: Contractor, Owner, File, Field, RFI Notebook



PROJECT NO.	14215-00294
FILE NAME:	C-D
SHEET NO.	
CD-11	

ESTIMATOR'S GUIDE CORE DRILLING

March 1, 2016

Minimum Charge (1 1/2 hrs.) \$200.00

FLOORS			WALLS		
Diameter	Per Hole up to 6" deep	Per Inch over 6" depth	Diameter	Per Hole up to 8" deep	Per Inch over 8" depth
1" to 4"	\$ 17.70	\$ 2.95	1" to 4"	\$ 25.60	\$ 3.20
4 1/2"	19.50	3.25	4 1/2"	28.40	3.55
5"	21.90	3.65	5"	30.80	3.85
6"	26.10	4.35	6"	35.60	4.45
7"	27.90	4.65	7"	41.60	5.20
8"	32.40	5.40	8"	46.40	5.80
9"	38.70	6.45	9"	57.60	7.20
10"	45.00	7.50	10"	67.60	8.45
12"	58.50	9.75	12"	88.40	11.05
14"	79.50	13.25	14"	117.20	14.65

HYDRAULIC CORE DRILLING

Minimum Charge \$250.00

16"	108.00	18.00	16"	160.80	20.10
18"	157.50	26.25	18"	228.80	28.60
20"	174.00	29.00	20"	262.40	32.80
22"	196.00	32.50	22"	287.60	35.95
24"	216.00	36.00	24"	311.60	38.95
26"	252.00	42.00	26"	390.00	48.75
28"	285.00	47.50	28"	474.80	59.35
30"	354.00	59.00	30"	558.00	69.75

SLAB SAWING - GAS, DIESEL, ELECTRIC

Minimum Charge (1 1/2 hrs.) \$250.00

Slab sawing with water clean up - \$.45 per inch foot

Depth of cut	1"	2"	3"	4"	6"	8"	10"	12"	14"
Cost per foot	\$.45	\$.90	\$ 1.35	\$ 1.80	\$ 2.70	\$ 3.60	\$ 4.50	\$ 5.40	\$ 6.30

Slab sawing with no water clean up - \$.40 per inch foot

Depth of cut	1"	2"	3"	4"	6"	8"	10"	12"	14"
Cost per foot	\$.40	\$.80	\$ 1.20	\$ 1.60	\$ 2.40	\$ 3.20	\$ 4.00	\$ 4.80	\$ 5.60

ASPHALT SLAB SAWING

Depth of cut	1-2"	3"	4"	6"	8"	10"	12"
Cost per foot	\$.50	\$.75	\$ 1.00	\$ 1.50	\$ 2.00	\$ 2.50	\$ 3.00

ELECTRIC SAWING, SMALL PUSH SAW

Minimum Charge (1 1/2 hrs.) \$250.00

(For Small & Confined Areas) \$.50 per inch foot

Depth of cut	1"	2"	3"	4"	6"	8"
Cost per foot	\$.50	\$ 1.00	\$ 1.50	\$ 2.00	\$ 3.00	\$ 4.00

WALL SAWING

Minimum Charge \$350.00

Wall Thickness	8"	10"	12"	14"	16"	18"
Concrete & Masonry - \$2.10/in. ft.	\$ 18.80	\$ 21.00	\$ 25.20	\$ 29.40	\$ 33.60	\$ 37.80
Flush Cut - \$2.35/in. ft.	\$ 18.80	\$ 23.50	\$ 28.20	\$ 32.90	\$ 37.60	\$ 42.30

GRINDING & SHOT BLASTING

Please call for pricing.

A mileage charge of \$.05 per mile round trip outside of metropolitan area.

Customer to mark out all holes and openings.

We do not assume responsibility for damage caused by mismarked holes, cutting conduit, buried pipe, steel beams, etc. We reserve the right to adjust prices when there is excessive re-steel, very difficult set-ups, river rock concrete or scattered locations.

Our clean up consists of vacuuming up our slurry. Additional charge to mop floors and power wash walls.

Price to take our slurry with us - \$50.00 per barrel.

Also distributors for professional diamond cutting products & equipment.

PLEASE CALL FOR QUOTES ON LARGE JOBS !!!



121 Old Nashville Hwy., Suite A
LaVergne, TN 37086
Phone: (615) 471-1960
Fax: (615) 471-1959
Cell: (615) 631-9494
www.kandhcutting.com

ATTACHMENT A

Scope of Work

Item	Description	Quantity	Unit of Measure	Unit Price	Total
1	2500 PSI Concrete - 1/2" chip	1,826.00	CY	\$ 97.00	\$ 177,122.00
2	Color Utility Red 1/2 Dosage	1,826.00	CY	\$ 28.00	\$ 51,128.00
3	3000 PSI - 1/2" Chip (Sidewalk C&G)	165.00	CY	\$ 101.00	\$ 16,665.00
	Escalation date 04-01-2020 \$4.00/CY				\$ -
	Contract Total (without Taxes)				\$ 244,915.00

1.0 General Description of the "Work": The s

- 1 FURNISH SECTIONS: Section 02515 – Concrete Sidewalk, Section 03300 – Cast-In-Place Concrete, 16900 – Ductbank Encasement complete per plans, specifications, and Addenda [Addenda 1-6]

Also included in additional to the above, any other applicable and/or related specification sections. Including but not limited to: Division 00, Division 1 General Requirements.

2.0 Including But Not Limited to:

- 1 The Unit Prices in the Schedule of Values are firm for the durations of the Project including escalation.
- 2 Seller will provide 0% of the Seller's total contract dollar value in DBE participation.
- 3 Material is not exempt from sales or use taxes.
- 4 Seller shall provide the furnishing concrete for duct bank encasement, sidewalk and curb details on Contract Drawing E-5 through E-15; Contract Drawing C-23 and CD-3.

3.0 Schedule of Work:

- 1 All Material and equipment delivery schedules shall be coordinated with the Contractor prior to shipment and Seller shall provide a minimum of 72 hours advance notice of all deliveries.
- 2 Concrete for Duct bank shall be available for delivery to site as requested by Contractor.
- 3 Concrete for Sidewalk shall be available for delivery to site as requested by Contractor.
- 4 Concrete for Curbs shall be available for delivery to site as requested by Contractor.

4.0 Unit Prices, Options and Allowances:

	Description	Qty	UoM	Price	Price Validity
.1	Add MRWR, increase slump 4" to 6"	1	CY	\$3.00	
.2	Add MRWR, increase slump 4" to 8"	1	CY	\$5.00	
.3	Calcium Chloride, LQD, 1%	1	CY	\$3.00	
.4	Non-Chloride Accelerator, 1%	1	CY	\$4.50	
.5	Superplasticizer.dose	1	CY	\$6.00	
.6	Hot/Chilled Water	1	CY	\$3.00	

Franklin WRF Modifications & Expansion Project
City of Franklin, TN
Job No.: 103925

Seller: Smyrna Ready Mix Concrete, LLC
Purchase Agreement No.: PA103925-001
Contract ID No. PXXXXXX-XXX

.7	All Cement Mixes, Additional	1	CY	\$6.00	
.8	Set Retarding Admixture	1	CY	\$2.00	
.9	Delivery Charge (Loads less than 6 CY)	1	EA	\$65.00	
.10	Delivery Charge (Loads less than 3 CY)	1	EA	\$85.00	
.11	Delivery Charge (Loads less than 2 CY)	1	EA	\$100.00	

5.0 Deliverables: In addition to any other provisions of this Contract, it is required that Seller make timely submission of the following to Contractor:

- .1 Furnish shop drawings and submittals for approval within 28 days of the Effective Date of Contract in strict accordance with specification section 01300. Material shall not be ordered or shipped until the shop drawings have been approved. No material shall be ordered or shop work started if shop drawings are marked "APPROVED AS NOTED - CONFIRM", "APPROVED AS NOTED - RESUBMIT" or "NOT APPROVED".

Rental Rate Blue Book®

May 22, 2020

Caterpillar 345D L (disc. 2012)
Crawler Mounted Hydraulic Excavators

Size Class:
40.1 - 50.0 MTons
Weight:
100040 lbs

Configuration for 345D L (disc. 2012)

Bucket Capacity - Heaped	2.36 cu yd	Net Horsepower	380.0 hp
Operating Weight	45.4 mt	Power Mode	Diesel

Blue Book Rates

** FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs	FHWA Rate**
	Monthly	Weekly	Daily	Hourly	Hourly	Hourly
Published Rates	USD \$15,585.00	USD \$4,365.00	USD \$1,090.00	USD \$165.00	USD \$101.57	USD \$190.12
Adjustments						
Region (100%)	-	-	-	-		
Model Year (2012: 100%)	-	-	-	-		
Adjusted Hourly Ownership Cost (100%)	-	-	-	-		
Hourly Operating Cost (100%)					-	
Total:	USD \$15,585.00	USD \$4,365.00	USD \$1,090.00	USD \$165.00	USD \$101.57	USD \$190.12

Non-Active Use Rates

	Hourly
Standby Rate	USD \$46.93
Idling Rate	USD \$137.39

Rate Element Allocation

Element	Percentage	Value
Depreciation (ownership)	37%	USD \$5,766.45/mo
Overhaul (ownership)	46%	USD \$7,169.10/mo
CFC (ownership)	10%	USD \$1,558.50/mo
Indirect (ownership)	6%	USD \$935.10/mo
Fuel (operating) @ USD 3.07	48%	USD \$48.84/hr

Revised Date: 1st half 2020

These are the most accurate rates for the selected Revision Date(s). However, due to more frequent online updates, these rates may not match Rental Rate Blue Book Print. Visit the Cost Recovery Product Guide on our Help page for more information.

The equipment represented in this report has been exclusively prepared for MICHAEL SHESTON
(Michael.Sheston@kiewit.com)

Rental Rate Blue Book®
Ford F-250 SD

On-Highway Light Duty Trucks

Size Class:

300 HP & Over

Weight:

N/A


Configuration for F-250 SD

Axle Configuration	4.0 X 4.0	Cab Type	Crew
Horsepower	300.0 hp	Power Mode	Gasoline
Ton Rating	3.0 / 4.0		

Blue Book Rates

** FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs	FHWA Rate**
	Monthly	Weekly	Daily	Hourly	Hourly	Hourly
Published Rates	USD \$900.00	USD \$255.00	USD \$64.00	USD \$10.00	USD \$19.00	USD \$24.11
Adjustments						
Region (100%)	-	-	-	-		
Model Year (2020: 100%)	-	-	-	-		
Adjusted Hourly Ownership Cost (100%)	-	-	-	-		
Hourly Operating Cost (100%)					-	
Total:	USD \$900.00	USD \$255.00	USD \$64.00	USD \$10.00	USD \$19.00	USD \$24.11

Non-Active Use Rates

	Hourly
Standby Rate	USD \$3.73
Idling Rate	USD \$20.16

Rate Element Allocation

Element	Percentage	Value
Depreciation (ownership)	54%	USD \$486.00/mo
Overhaul (ownership)	27%	USD \$243.00/mo
CFC (ownership)	7%	USD \$63.00/mo
Indirect (ownership)	12%	USD \$108.00/mo
Fuel (operating) @ USD 2.51	79%	USD \$15.05/hr

Revised Date: 1st half 2020

These are the most accurate rates for the selected Revision Date(s). However, due to more frequent online updates, these rates may not match Rental Rate Blue Book Print. Visit the Cost Recovery Product Guide on our Help page for more information.

The equipment represented in this report has been exclusively prepared for MICHAEL SHESTON
(Michael.Sheston@kiewit.com)

Rental Rate Blue Book®

April 26, 2020

Caterpillar 938K (disc. 2015)

4-Wd Articulated Wheel Loaders

Size Class:
150 - 174 HP
Weight:
35104 lbs


Configuration for 938K (disc. 2015)

Bucket Capacity - Heaped	3.2 cu yd	Net Horsepower	173.0 hp
Operator Protection	ROPS/FOPS	Power Mode	Diesel

Blue Book Rates

** FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs	FHWA Rate**
	Monthly	Weekly	Daily	Hourly	Hourly	Hourly
Published Rates	USD \$6,770.00	USD \$1,895.00	USD \$475.00	USD \$71.00	USD \$36.36	USD \$74.83
Adjustments						
Region (Tennessee: 93%)	(USD \$473.90)	(USD \$132.65)	(USD \$33.25)	(USD \$4.97)		
Model Year (2015: 100%)	-	-	-	-		
Adjusted Hourly Ownership Cost (100%)	-	-	-	-		
Hourly Operating Cost (100%)					-	
Total:	USD \$6,296.10	USD \$1,762.35	USD \$441.75	USD \$66.03	USD \$36.36	USD \$72.13

Non-Active Use Rates

	Hourly
Standby Rate	USD \$17.89
Idling Rate	USD \$52.71

Rate Element Allocation

Element	Percentage	Value
Depreciation (ownership)	41%	USD \$2,775.70/mo
Overhaul (ownership)	37%	USD \$2,504.90/mo
CFC (ownership)	12%	USD \$812.40/mo
Indirect (ownership)	10%	USD \$677.00/mo
Fuel (operating) @ USD 3.07	47%	USD \$16.94/hr

Revised Date: 1st half 2020

These are the most accurate rates for the selected Revision Date(s). However, due to more frequent online updates, these rates may not match Rental Rate Blue Book Print. Visit the Cost Recovery Product Guide on our Help page for more information.

The equipment represented in this report has been exclusively prepared for **MICHAEL SHESTON**
(Michael.Sheston@kiewit.com)

Rental Rate Blue Book®

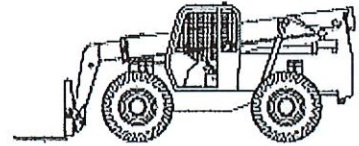
September 24, 2019

Xtreme XR630

Telescoping Boom Rough Terrain Lift Trucks

 Size Class:
4.0 - 4.4 MTons
Weight:
MT

Kiewit has XR1055 w/10,000 lb capacity


Configuration for XR630

Base Capacity	6000 lbs	Horsepower	74 hp
Maximum Lift Height	30.5 ft	Maximum Reach	221.0 in
Power Mode	Diesel		

Blue Book Rates

** FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs	FHWA Rate**
	Monthly	Weekly	Daily	Hourly	Hourly	Hourly
Published Rates	USD \$5,570.00	USD \$1,560.00	USD \$390.00	USD \$59.00	USD \$23.22	USD \$84.87
Adjustments						<i>\$60.00</i>
Region (100%)	-	-	-	-		
Model Year (2019: 100%)	-	-	-	-		
Adjusted Hourly Ownership Cost (100%)	-	-	-	-		
Hourly Operating Cost (100%)					-	
Total:	USD \$5,570.00	USD \$1,560.00	USD \$390.00	USD \$59.00	USD \$23.22	USD \$54.87

Non-Active Use Rates

	Hourly
Standby Rate	USD \$13.61
Idling Rate	USD \$38.03

Rate Element Allocation

Element	Percentage	Value
Depreciation (ownership)	30%	USD \$1,671.00/mo
Overhaul (ownership)	57%	USD \$3,174.90/mo
CFC (ownership)	6%	USD \$334.20/mo
Indirect (ownership)	7%	USD \$389.90/mo
Fuel (operating) @ USD 3.07	27%	USD \$6.38/hr

Revised Date: 2nd half 2019

These are the most accurate rates for the selected Revision Date(s). However, due to more frequent online updates, these rates may not match Rental Rate Blue Book Print. Visit the Cost Recovery Product Guide on our Help page for more information.

The equipment represented in this report has been exclusively prepared for MICHAEL SHESTON (Michael.Sheston@kiewit.com)

** Equipment Watch does not have Xtreme XR1055 10k lb capacity. Used \$60/HR FHWA Rate*

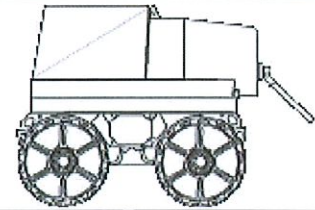
Rental Rate Blue Book®

April 26, 2020

Rammax P33/24FCR

Trench Compactors

Size Class:
26 - 34 Inches
Weight:
3109 lbs


Configuration for P33/24FCR

Drum Width **24.0 in** Net Horsepower **14.5 hp**
Number Of Drums **4.0** Power Mode **Diesel**

Blue Book Rates

** FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs	FHWA Rate**
	Monthly	Weekly	Daily	Hourly	Hourly	Hourly
Published Rates	USD \$3,300.00	USD \$925.00	USD \$230.00	USD \$35.00	USD \$10.17	USD \$28.92
Adjustments						
Region (Tennessee: 93.1%)	(USD \$227.70)	(USD \$63.83)	(USD \$15.87)	(USD \$2.41)		
Model Year (2020: 100%)	-	-	-	-		
Adjusted Hourly Ownership Cost (100%)	-	-	-	-		
Hourly Operating Cost (100%)					-	
Total:	USD \$3,072.30	USD \$861.17	USD \$214.13	USD \$32.58	USD \$10.17	USD \$27.63

Non-Active Use Rates

	Hourly
Standby Rate	USD \$8.73
Idling Rate	USD \$19.27

Rate Element Allocation

Element	Percentage	Value
Depreciation (ownership)	32%	USD \$1,056.00/mo
Overhaul (ownership)	54%	USD \$1,782.00/mo
CFC (ownership)	7%	USD \$231.00/mo
Indirect (ownership)	7%	USD \$231.00/mo
Fuel (operating) @ USD 3.07	18%	USD \$1.81/hr

Revised Date: 1st half 2020

These are the most accurate rates for the selected Revision Date(s). However, due to more frequent online updates, these rates may not match Rental Rate Blue Book Print. Visit the Cost Recovery Product Guide on our Help page for more information.

The equipment represented in this report has been exclusively prepared for **MICHAEL SHESTON**
(Michael.Sheston@kiewit.com)



Kiewit Infrastructure South Co.
4800 North Point Parkway, Suite 100
Alpharetta, GA 30022

April 1, 2020

To: Attn: Mr. Dan Harris

CP-KIEWIT-00012.00

CDM Smith, Inc.
210 25th Avenue North
Suite 1102
Nashville, TN 37203

Reference: Franklin WRF Modifications & Expansion Project
COF Contract No. 2017-0264

Subject: Change Proposal – RFI 256 – Digester & Scum Tank Subgrade

Dear Mr. Harris,

Attached you will find Kiewit's proposal for the addition of #57 stone and geotextile fabric below the Digester Tanks, Scum Holding Tanks and Decant Boxes per the response to RFI 256. Kiewit proposes a price of **Thirty-Nine Thousand One Hundred Ten Dollars (\$39,110)**.

While the response to RFI 256 does not specify the required depth of #57 Stone, this proposal is based on the assumption of one foot depth at the Scum Holding Tanks and Decant Boxes and two feet depth at the Digester Tanks. The #57 stone at the Digester Tanks was installed with two feet depth in the month of January, 2020.

If you have any questions, please do not hesitate to contact me at (678) 794-2121.

Sincerely,

Steve Davis
Project Manager

cc: File
Michelle Hatcher



PCO NO.:

PREPARED BY: Michael Sheaton

DESCRIPTION	QTY	UNIT	MH Per Unit	Total MH	DIRECT LABOR		INDIRECT LABOR		MATERIAL		CONST. EQUIPMENT		SUBCONTRACT		OTHER		TOTAL AMOUNT
					Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	
RFI 266 - Digesters & Scum Tanks Subgrade						\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	\$ -
						\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	\$ -
						\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	\$ -
Digester Tanks - 2 Tanks - 48' Diameter (1' outside foundation)						\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	\$ -
Excavate additional 2' - Haul to Stockpile	247.00	CY	0.40	98.80		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	\$ -
Laborer Foreman	1.00	EA		24.70	\$ 48.70	\$ 1,202.89	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,202.89
Laborers	1.00	EA		24.70	\$ 29.68	\$ 738.04	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 738.04
Excavator Operator	1.00	EA		24.70	\$ 34.00	\$ 839.80	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 839.80
Dozer Operator	1.00	EA		24.70	\$ 38.95	\$ 912.67	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 912.67
Crew Truck - F250	24.70	HR			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 24.71	\$ 610.34	\$ -	\$ -	\$ -	\$ -	\$ 610.34
CAT 338 Excavator	24.70	HR			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 141.95	\$ 3,508.17	\$ -	\$ -	\$ -	\$ -	\$ 3,508.17
CAT D5 Dozer	24.70	HR			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 72.47	\$ 1,790.01	\$ -	\$ -	\$ -	\$ -	\$ 1,790.01
Legal Haul Truck	24.70	HR			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 90.00	\$ 2,223.00	\$ -	\$ -	\$ -	\$ 2,223.00
						\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	\$ -
Lay/roll/Finish #57 Stone	493.00	TN	0.20	98.60		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	\$ -
Laborer Foreman	1.00	EA		24.65	\$ 48.70	\$ 1,200.48	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,200.48
Laborers	1.00	EA		24.65	\$ 29.68	\$ 736.64	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 736.64
Dozer Operator	1.00	EA		24.65	\$ 38.95	\$ 910.82	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 910.82
Roller Operator	1.00	EA		24.65	\$ 34.00	\$ 838.10	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 838.10
Crew Truck - F250	24.65	HR			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 24.71	\$ 609.10	\$ -	\$ -	\$ -	\$ -	\$ 609.10
CAT D5 Dozer	24.65	HR			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 72.47	\$ 1,786.39	\$ -	\$ -	\$ -	\$ -	\$ 1,786.39
Single Drum Roller	24.65	HR			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 66.03	\$ 1,627.64	\$ -	\$ -	\$ -	\$ -	\$ 1,627.64
Purchase #57 Stone	493.00	TN			\$ -	\$ -	\$ -	\$ -	\$ 18.00	\$ 8,874.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 8,874.00
						\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	\$ -
Install Geotextile Fabric	370.00	SY	0.03	11.10		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	\$ -
Laborer Foreman	1.00	EA		2.78	\$ 48.70	\$ 135.14	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 135.14
Laborers	3.00	EA		8.33	\$ 29.68	\$ 248.75	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 248.75
Crew Truck - F250	2.78	HR			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 24.71	\$ 68.67	\$ -	\$ -	\$ -	\$ -	\$ 68.67
Purchase Geotextile Fabric	370.00	SY			\$ -	\$ -	\$ -	\$ -	\$ 0.58	\$ 214.60	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 214.60
						\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	\$ -
Scum Tanks - 2 Tanks - 15'-4" x 15'-4" (1' Outside Foundation)						\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	\$ -
						\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	\$ -
Excavate additional 1' - Haul to Stockpile	18.00	CY	0.40	7.20		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	\$ -
Laborer Foreman	1.00	EA		1.80	\$ 48.70	\$ 87.66	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 87.66
Laborers	1.00	EA		1.80	\$ 29.68	\$ 63.78	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 63.78
Excavator Operator	1.00	EA		1.80	\$ 34.00	\$ 61.20	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 61.20
Dozer Operator	1.00	EA		1.80	\$ 38.95	\$ 68.61	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 68.61
Crew Truck - F250	1.80	HR			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 24.71	\$ 44.48	\$ -	\$ -	\$ -	\$ -	\$ 44.48
CAT 338 Excavator	1.80	HR			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 141.95	\$ 255.51	\$ -	\$ -	\$ -	\$ -	\$ 255.51
CAT D5 Dozer	1.80	HR			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 72.47	\$ 130.45	\$ -	\$ -	\$ -	\$ -	\$ 130.45
Legal Haul Truck	1.80	HR			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 90.00	\$ 162.00	\$ -	\$ -	\$ -	\$ 162.00
						\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	\$ -
Lay/roll/Finish #57 Stone	38.00	TN	0.20	7.20		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	\$ -
Laborer Foreman	1.00	EA		1.80	\$ 48.70	\$ 87.66	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 87.66
Laborers	2.00	EA		3.60	\$ 29.68	\$ 107.57	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 107.57
Excavator Operator	1.00	EA		1.80	\$ 34.00	\$ 61.20	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 61.20
CAT 338 Excavator	1.80	HR			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 141.95	\$ 255.51	\$ -	\$ -	\$ -	\$ -	\$ 255.51
Crew Truck - F250	1.80	HR			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 24.71	\$ 44.48	\$ -	\$ -	\$ -	\$ -	\$ 44.48
Walk behind plate compactor	1.80	HR			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3.58	\$ 6.41	\$ -	\$ -	\$ -	\$ -	\$ 6.41
Purchase #57 Stone	38.00	TN			\$ -	\$ -	\$ -	\$ -	\$ 18.00	\$ 648.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 648.00



PCO NO.:

PREPARED BY: Michael Sheaton

DESCRIPTION	QTY	UNIT	MH Per Unit	Total MH	DIRECT LABOR		INDIRECT LABOR		MATERIAL		CONST. EQUIPMENT		SUBCONTRACT		OTHER		TOTAL AMOUNT
					Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	
						\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	\$ -
Install Geotextile Fabric	53.00	SY	0.03	1.69		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	\$ -
Laborer Foreman	1.00	EA		0.40	\$ 48.70	\$ 19.38		\$ -		\$ -		\$ -		\$ -		\$ -	\$ 19.38
Laborers	3.00	EA		1.19	\$ 29.88	\$ 35.63		\$ -		\$ -		\$ -		\$ -		\$ -	\$ 35.63
Crew Truck - F250	0.40	HR				\$ -		\$ -		\$ -	\$ 24.71	\$ 9.82		\$ -		\$ -	\$ 9.82
Purchase Geotextile Fabric	53.00	SY				\$ -		\$ -	\$ 0.58	\$ 30.74		\$ -		\$ -		\$ -	\$ 30.74
						\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	\$ -
						\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	\$ -
Decant Boxes - 2 Tanks - 7'-4" x 7'-4" (1' Outside Foundation)						\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	\$ -
Excavate additional 1' - Haul to Stockpile	4.00	CY	0.40	1.60		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	\$ -
Laborer Foreman	1.00	EA		0.40	\$ 48.70	\$ 19.48		\$ -		\$ -		\$ -		\$ -		\$ -	\$ 19.48
Laborers	1.00	EA		0.40	\$ 29.88	\$ 11.95		\$ -		\$ -		\$ -		\$ -		\$ -	\$ 11.95
Excavator Operator	1.00	EA		0.40	\$ 34.00	\$ 13.60		\$ -		\$ -		\$ -		\$ -		\$ -	\$ 13.60
Dozer Operator	1.00	EA		0.40	\$ 38.95	\$ 14.78		\$ -		\$ -		\$ -		\$ -		\$ -	\$ 14.78
Crew Truck - F250	0.40	HR				\$ -		\$ -		\$ -	\$ 24.71	\$ 9.88		\$ -		\$ -	\$ 9.88
CAT 336 Excavator	0.40	HR				\$ -		\$ -		\$ -	\$ 141.95	\$ 56.78		\$ -		\$ -	\$ 56.78
CAT D5 Dozer	0.40	HR				\$ -		\$ -		\$ -	\$ 72.47	\$ 28.99		\$ -		\$ -	\$ 28.99
Legal Haul Truck	0.40	HR				\$ -		\$ -		\$ -		\$ -	\$ 90.00	\$ 36.00		\$ -	\$ 36.00
						\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	\$ -
Lay/Roll/Finish #57 Stone	8.00	TN	0.20	1.60		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	\$ -
Laborer Foreman	1.00	EA		0.40	\$ 48.70	\$ 19.48		\$ -		\$ -		\$ -		\$ -		\$ -	\$ 19.48
Laborers	2.00	EA		0.80	\$ 29.88	\$ 23.90		\$ -		\$ -		\$ -		\$ -		\$ -	\$ 23.90
Excavator Operator	1.00	EA		0.40	\$ 34.00	\$ 13.60		\$ -		\$ -		\$ -		\$ -		\$ -	\$ 13.60
Crew Truck - F250	0.40	HR				\$ -		\$ -		\$ -	\$ 24.71	\$ 9.88		\$ -		\$ -	\$ 9.88
CAT 336 Excavator	0.40	HR				\$ -		\$ -		\$ -	\$ 141.95	\$ 56.78		\$ -		\$ -	\$ 56.78
Walk behind plate compactor	0.40	HR				\$ -		\$ -		\$ -	\$ 3.59	\$ 1.42		\$ -		\$ -	\$ 1.42
Purchase #57 Stone	8.00	TN				\$ -		\$ -	\$ 18.00	\$ 144.00		\$ -		\$ -		\$ -	\$ 144.00
						\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	\$ -
Install Geotextile Fabric	12.00	SY	0.03	0.36		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	\$ -
Laborer Foreman	1.00	EA		0.09	\$ 48.70	\$ 4.38		\$ -		\$ -		\$ -		\$ -		\$ -	\$ 4.38
Laborers	3.00	EA		0.27	\$ 29.88	\$ 8.07		\$ -		\$ -		\$ -		\$ -		\$ -	\$ 8.07
Crew Truck - F250	0.09	HR				\$ -		\$ -		\$ -	\$ 24.71	\$ 2.22		\$ -		\$ -	\$ 2.22
Purchase Geotextile Fabric	12.00	SY				\$ -		\$ -	\$ 0.58	\$ 6.96		\$ -		\$ -		\$ -	\$ 6.96
						\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	\$ -
**Construction Equipment Ownership & Operating Costs are based on Blue Book FHWA Rates.						\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	\$ -
						\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	\$ -
						\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	\$ -
OTHER						\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	\$ -
STS - small tools, consumables, safety equip, (5% of direct labor, plus 9.75% sales tax. Formula = Total Direct Labor Subtotal *.05 * 1.0975)	1	PLS				\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	\$ -
TAX: (9.75% of Material, Equipment, Other)										\$967.03		\$1,063.81				\$41.31	\$ 2,072.15
BOND (2% of total)																	\$ -
SUBTOTALS				228		\$ 8,473.02		\$ -		\$ 10,885.33		\$ 11,974.83		\$ 2,421.00		\$ 464.98	\$ 34,218.94
MARKUP %						15.00%		15.00%		15.00%		15.00%		5.00%		15.00%	\$ 4,880.74
SUBTOTALS WITH MARKUPS APPLIED						\$9,743.97				\$12,618.13		\$13,770.82		\$2,642.05		\$534.70	\$39,109.68
BOND																	
TOTAL																	\$39,110.00

Request For Information

RFI Reference No: KIEWIT-RFI-000256
Status: CLOSED-OUT

For Action: Michael Sheston, Kiewit
Steve Davis, Kiewit
Jon Allen, CDM Smith
Dan Harris, CDM Smith
Laura Hernandez, Kiewit
Alex Landry, CDM Smith

For Info: Chris Tennyson, Kiewit
Kyle Krajco, Kiewit
Cody Prange, Kiewit
Neena Bilbo, City of Franklin
Brian Goodwin, City of Franklin
Michelle Hatcher, City of Franklin
Tom Lamb, CDM Smith
Jim Townsend, CDM Smith
Corbin Coker, Kiewit
Tim Roberson, Wayne J. Griffin
Sarah Moore, Wayne J. Griffin
Nick Young, Wayne J. Griffin
Tate Atha, CDM Smith
Andrew McLain, Kiewit
Franklin WRF, Kiewit
Ewa PoplawskaPagan, Kiewit
Jonathan Johnson, Control Instruments, Inc.
Mason Millet, CDM Smith
Jon Stow, Kiewit
Mark Renwick, Kiewit
Kian Lawlor, Kiewit
Tawanda Charambira, Kiewit

Project: Franklin WRF Modification and Expansion Project

Subject: Digesters & Scum Holding Tank Subgrade

1) Drawing M-85 shows the Anaerobic Digester Tanks section view but does not show #57 Stone with a layer of 8 oz. non-woven geotextile fabric. Section views for other wire wrapped pre-stressed concrete tanks called out either 12" or 24" of #57 Stone with 8 oz. non-woven geotextile fabric. Please confirm if #57 stone with 8 oz. non-woven geotextile fabric is required.

2) Drawings M-97 and M-98 show section views of the Scum Holding Tanks and Decant Boxes but does not show #57 Stone wrapped in 8 oz. non-woven geotextile fabric. Section views for all other precast structures call out #57 Stone with 8 oz. non-woven geotextile fabric. Please confirm if #57 stone with 8 oz. non-woven geotextile fabric is required.

Attachments: Tank Subgrade Preparation.htm
RFI256.pdf

Discipline: GRADING

Area: MULTI-AREA

Location: NEW

Proposed Solution:

Specification Reference: 02230 - Granular Materials

Drawing Reference: M-85
M-97
M-98

Related RFI No(s):

Schedule Impact:

Cost Impact:

Priority: M - Medium

Originator's Reference No :

Alt. Reference Number:

Response Required By: 05 March 2020

RFI by: Cody Prange, Kiewit
Created By: Michael Sheston, Kiewit
Last Edited By: Michael Sheston, Kiewit

On: 18 February 2020
On: 18 February 2020, 05:17:40 PM -06:00
On: 20 February 2020, 08:17:04 AM -06:00

01 - Engineer / Owner Comments

See Attached

Attachments: RFI256 Response.pdf

Engineer / Owner Comments by: Dan Harris, CDM Smith

On: 18 March 2020

Created By: Alex Landry, CDM Smith

On: 18 March 2020, 09:32:30 AM -05:00

Last Edited By: Alex Landry, CDM Smith

On: 18 March 2020, 09:32:30 AM -05:00

02 - Response Received / Closeout

Response Received / Closeout
by:

On:

Created By:

On:

Last Edited By:

On:

Links**Document Links:**

Document No.	Title	Rev.	Sts	Disc.	From	From Company
M-85_103925	DIGESTER NO. 1 AND NO. 2 SECTIONS I	00	IFC	WWEQP	Michael Sheston	Kiewit
M-85_103925	DIGESTER NO. 1 AND NO. 2 SECTIONS I	00	IFC	WWEQP	Ewa PoplawskaPagan	Kiewit
M-97_103925	SCUM HOLDING TANKS PLAN AND SECTION	00	IFC	WWEQP	Ewa PoplawskaPagan	Kiewit
M-97_103925	SCUM HOLDING TANKS PLAN AND SECTION	00	IFC	WWEQP	Michael Sheston	Kiewit
M-98_103925	SCUM HOLDING TANKS SECTIONS	00	IFC	WWEQP	Michael Sheston	Kiewit
M-98_103925	SCUM HOLDING TANKS SECTIONS	00	IFC	WWEQP	Ewa PoplawskaPagan	Kiewit
RFI256	Tank Subgrade Preparation	A	IFR	GRADING	Michael Sheston	Kiewit

Request for Information

Project Name: Franklin WRF Modifications & Expansion Project		
Owner's Project No.: 2017-0264	CDM Smith Project No.: 14915-96594-WRF	
Contractor: Kiewit Infrastructure South Co.	RFI No.: RFI256	
	Date: Tuesday, February 18th, 2020	
Subject: Tank Subgrade Preparation		
Spec Section: 02230	Drawing: M-85, M-97, M-98	Detail: N/A

QUESTION:

1) Drawing M-85 shows the Anaerobic Digester Tanks section view but does not show #57 Stone with a layer of 8 oz. non-woven geotextile fabric. Section views for other wire wrapped pre-stressed concrete tanks called out either 12" or 24" of #57 Stone with 8 oz. non-woven geotextile fabric. Please confirm if #57 stone with 8 oz. non-woven geotextile fabric is required.

2) Drawings M-97 and M-98 show section views of the Scum Holding Tanks and Decant Boxes but does not show #57 Stone wrapped in 8 oz. non-woven geotextile fabric. Section views for all other precast structures call out #57 Stone wrapped in 8 oz. non-woven geotextile fabric. Please confirm if #57 stone wrapped in 8 oz. non-woven geotextile fabric is required.

If the above question concerns an interpretation of the Contract Documents, the Contractor's interpretation is:

Please Respond by This Date: Wednesday, March 4th, 2020

Submitted by Contractor: Cody Prange, Kiewit

Date: 2/18/2020

Received by (CDM Smith):

Date:

RESPONSE:

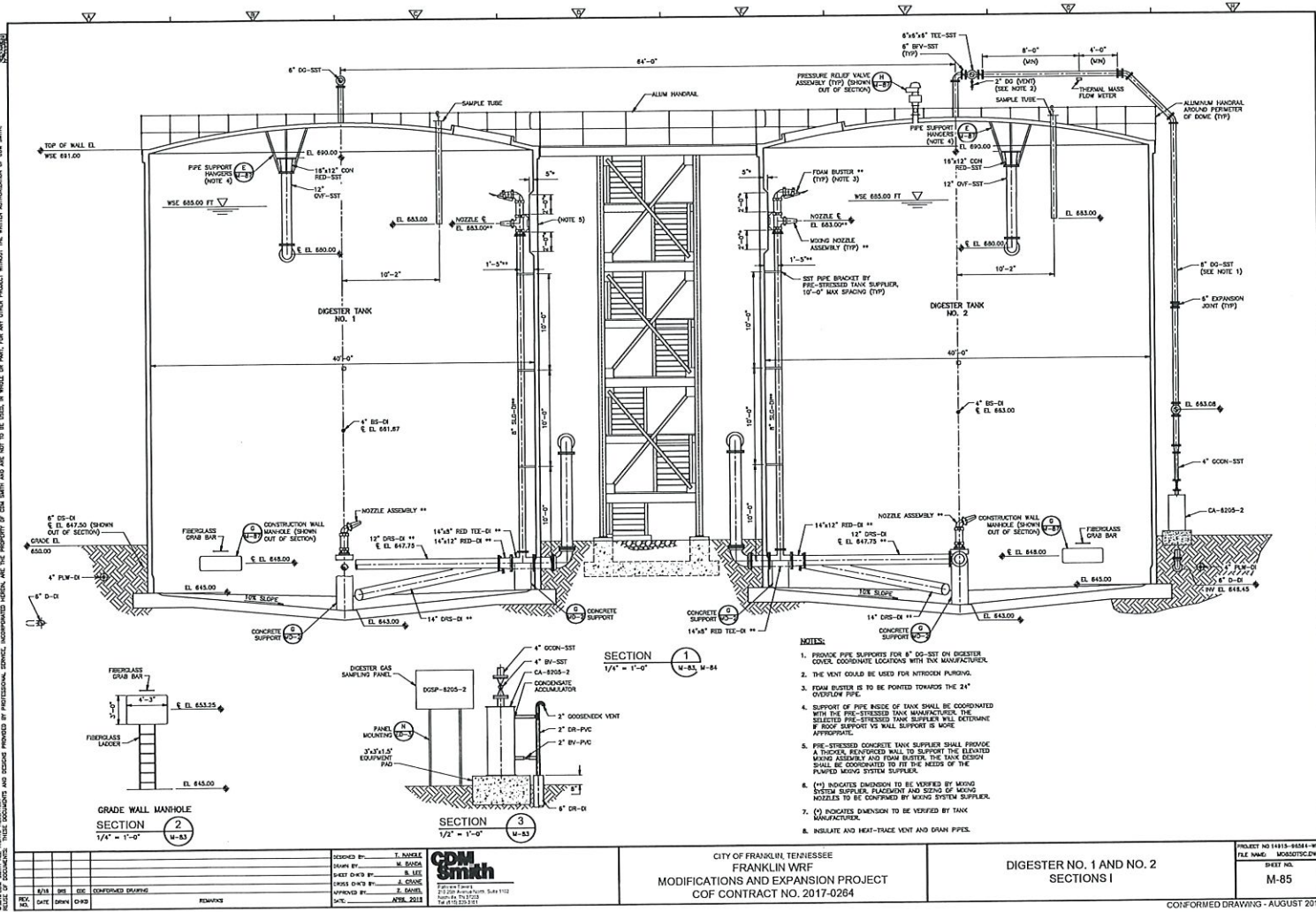
#57 stone and geotextile should be installed beneath the Digester tank slabs as well as the scum holding tanks and decant boxes.

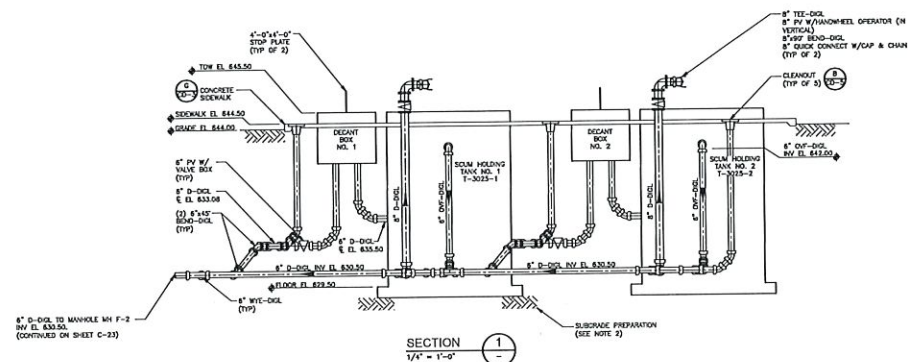
By: Dan Harris

Date: 3/17/20

Distribution: Contractor, Owner, File, Field, RFI Notebook

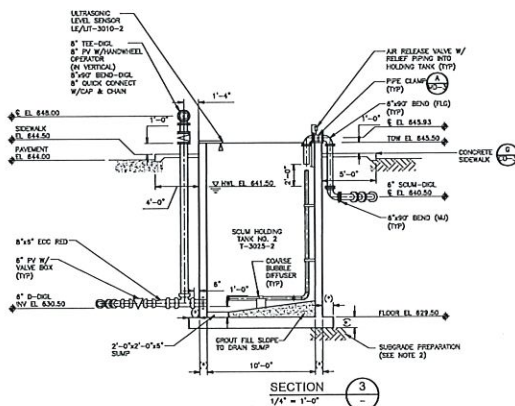
THIS DRAWING IS THE PROPERTY OF CDM SMITH AND IS NOT TO BE USED, IN WHOLE OR PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN APPROVAL OF CDM SMITH.





- NOTES:**
1. SOIL HOLDING TANKS AND DEWAT TANKS ARE PRECAST CONCRETE TANKS. DIMENSIONS SHOWN WITH AN AESTHETIC FINISH. RESISTANCE TO WATER TRANSMISSION.
 2. CONFIRM SUITABLE BEARING CAPACITY IS SUITABLE FOR 1300 PSI BEARING PRESSURE PRIOR TO PLACING CONCRETE STRUCTURE. PROVIDE ADEQUATELY DESIGNING NET-CALCULATIONS OF NATIVE SOILS AT THE BEARING LOCATION.
 3. REFER TO SPECIFICATION SECTION 01154 FOR MAINTENANCE OF PLANT OPERATIONS DURING CONSTRUCTION.
 4. ALL SOIL AND DRAIN (D) PIPING AND VALVES SHALL BE CLASSIFIED. REFER TO SPECIFICATION SECTIONS 01151 AND 01145.
 5. ALL BURIED SOIL PIPING SHALL BE MEDIANVAL JOINT (M/J).
 6. ALL DRAIN (D) PIPING SHALL BE PUSH-ON JOINT (P/O).
 7. DIMENSIONS MARKED WITH TWO ASTERISKS (**) ARE TO BE USED BY THE SELECTED BLOWER PACKAGE MANUFACTURER.
 8. INSTALL ALL ABOVE GRADE STAINLESS STEEL AIR PIPING IN ACCORDANCE WITH SECTION 13250.
 9. REFER TO ELECTRICAL DRAWINGS FOR HAZARDOUS AREA

										DESIGNED BY: C. CASH DRAWN BY: B. BENT CHECKED BY: A. LEE DESIGNED BY: N. MCGOWAN APPROVED BY: C. CASH DATE: APRIL 2018										 CITY OF FRANKLIN, TENNESSEE FRANKLIN WRF MODIFICATIONS AND EXPANSION PROJECT COF CONTRACT NO. 2017-0284										SCUM HOLDING TANKS PLAN AND SECTION										SHEET NO. M-97									
CONFORMED DRAWING ADDENDUM NO. 1										REMARKS										PROJECT NUMBER: 2017-0284 PROJECT LOCATION: 2017-0284 PROJECT DATE: 2017-0284										CONFORMED DRAWING - AUGUST 2018																			



- NOTES:**
1. SOIL HOLDING TANKS AND DECANT TANKS ARE PRECAST CONCRETE TANKS. DIMENSIONS MARKED WITH AN ASTRISK (*) ARE TO BE DESIGNED BY PRECAST TANK MANUFACTURER.
 2. CONFORM SURFACE BEARING ELEVATION IS SUFFICIENT FOR THE DESIGN OF THE TANKS. THE TANKS ARE TO BE CONSTRUCTED IN CONCRETE. STRUCTURE HAS BEEN DESIGNED CONSIDERING NET-LENGTH OF NATIVE SOILS AT THE BEARING ELEVATION.
 3. REFER TO SPECIFICATION SECTION 01114 FOR MAINTENANCE OF PLANT OPERATIONS DURING CONSTRUCTION.
 4. ALL SOIL AND DRAIN (D) PIPING AND VALVES SHALL BE CLASSIFIED. REFER TO SPECIFICATION SECTIONS 03111 AND 01240.
 5. ALL BUFILED SOIL PIPING SHALL BE WEDGEOCK JOINT.
 6. ALL DRAIN (D) PIPING SHALL BE PUSH-ON JOINT (P.O.J.).
 7. DIMENSIONS MARKED WITH TWO ASTRISKS (**) ARE TO BE VERIFIED BY THE SELECTED BORER PACKAGE SUPPLIER.
 8. INDICATE ALL ABOVE GRADE STAINLESS STEEL AIR PIPING IN ACCORDANCE WITH SECTION 12520.
 9. REFER TO ELECTRICAL DRAWINGS FOR HAZARDOUS AREA CLASSIFICATION.

[illegible]

CITY OF FRANKLIN, TENNESSEE
FRANKLIN WRF
MODIFICATIONS AND EXPANSION PROJECT
COF CONTRACT NO. 2017-0264

SCUM HOLDING TANKS SECTIONS

PROJECT NO 14815-06044-W
FILE NAME: M0983HSC.DWG
SHEET NO.
M-98

CONFORMED DRAWING - AUGUST 2018

Roger's Group - Aggregate Supply

Franklin WRF Modifications & Expansion Project
City of Franklin, TN

Job Number. 103925
Material Contract No. 103925-MC-001

Attachment A

Schedule of Values

Item	Description	Approx. Quantity	Unit of Measure	Unit Price	Total
1	TDOT 57 Stone	26,620.00	TN	\$ 18.00	\$ 479,160.00
2	TDOT Grade D	4,980.00	TN	\$ 12.50	\$ 62,250.00
3	Class A3 Rip Rap	1,500.00	TN	\$ 21.00	\$ 31,500.00
4	Surge Stone	850.00	TN	\$ 13.00	\$ 11,050.00
5	Class A1 Rip Rap	200.00	TN	\$ 21.00	\$ 4,200.00
6	2" to 3" Stone	350.00	TN	\$ 17.75	\$ 6,212.50
7	TDOT #4 Stone	200.00	TN	\$ 17.75	\$ 3,550.00
	Approximate Contract Total (without Taxes)				\$ 597,922.50
	Bond (0%)				\$..

1.0 General Description of the "Work": Provide all supervision, labor, material tools and equipment to furnish and deliver aggregates of the type, at the unit prices, and up to the qty shown on the Schedule of Values.

- .1 FURNISH SECTIONS: 02230 - Granular Materials complete per plans, specifications, and addenda [Addenda 1-6];

Also includes in addition to the above, any other applicable and/or related specification sections, including but not limited to: Division 00 and Division 1 General Requirements

2.0 Including But Not Limited to:

- .1 The Contract price(s) are firm through 12/31/19.
- .2 Seller will provide _0_% of the Seller's total contract dollar value in DBE participation.
- .3 Material is not exempt from sales or use taxes.
- .4 **Industrial Machinery Sales and Use Tax Exemption Certificate – Attachment C-3 (per Specification Section 00800 Supplementary Conditions Article SC-6.10A).** Sales and Use Tax Exemption Certificate will be provided for the Project by the Contractor.
- .5 All Deliveries must include a material ticket recognizing the material and quantity delivered. Delivery Tickets to be signed by Contractor for validation of receipt and acceptance to pay for actual quantities delivered.

3.0 Clarifications:

- .1 Effective 1/1/20 Seller will institute a 3% increase per ton on all remaining aggregate through 12/31/20. An additional 3% increase will be effective per ton starting 1/1/21 through 12/31/21.
- .2 Delivered prices are based on full loads (20 ton or more) a minimum haul may be applied for smaller loads.

ATTACHMENT A
SCOPE OF WORK

Job Number: 103925
Trucking Agreement No. 103925-TA-001

Franklin WRF Modifications & Expansion Project
City of Franklin, TN
Project No: 103925

Trucker: T&W Construction LLC
Trucking Agreement No.: 103925-TA-001
Contract ID Number: TXXXXXX-XXX
Trucking Agreement Date: 10/18/18

Schedule of Values

Item	Description	Approx. Quantity	Unit of Measure	Unit Price	Total
1	Tri-Axle Dump Trucks	3,485	HR	\$ 90.00	\$ 313,650.00
				\$ -	\$ -
	<i>Approximate Agreement Total (including Taxes)</i>				\$ 313,650.00

1.0 General Description of the "Work": Hourly Truck Hauling

- .1 Trucking of on-site material to stockpile, waste site as well as on-site hauls as directed by Contractor. Off-site hauls will be as directed by Contractor and to Contractor approved locations for legal disposal of waste.

2.0 Inclusions:

- .1 All applicable taxes shall be included in Trucker's pricing.
.2 Trucker is responsible for all fines and traffic related tickets.
.3 Trucker shall attend Contractor daily coordination/schedule meetings as determined by the Contractor.
.4 Necessary permits required for hauling are the responsibility of the Trucker.
.5 Trucker will appoint a representative whom will supervise performance of Work on site and coordinate Work as directed by the Contractor.
.6 Trucker's equipment, including trucking, must be checked for leaks as to avoid any spills on site. Environmental concerns are high and Trucker shall comply with all state and federal environmental regulations including but not limited to having spill kits for dealing with spills as a result of Trucker's operations.
.7 Truck drivers to have reflective vests, shirts with sleeves, hard hat, safety glasses, gloves, leather work boots and pants while on site.
.8 Trucks will be in safe working condition, with backup alarms and functioning lights.
.9 All required permits and licenses required for completing the scope of Work.
.10 Night and weekend work is included at no additional cost.
.11 Trucker to provide hauling tickets daily for Contractor to verify and sign. Additionally, Trucker will utilize Five Cubits software for tracking, provided by Contractor.
.12 Trucker to clean truck of loose materials prior exiting Project site.
.13 Trucker to provide copies of any lease agreement for Contractor to review and approve prior to using any outside leased trucks on the Project.

3.0 Exclusions:

- .1 Traffic Control.

4.0 Clarifications:

INVOICE

CORPORATE OFFICE
500 N. Main Creek Rd.
P.O. BOX 457
CONOVER, NC 28613-0457
PHONE (828) 464-4673
FAX (828) 464-0459



RELEASE PERMIT TO
HANES GEO COMPONENTS
L&P FINANCIAL SERVICES CO
P.O. BOX 60984
CHARLOTTE, NC 28260

SOLD TO

KIEWIT INFRASTRUCTURE SOUTH CO
ACCOUNTS PAYABLE
PO BOX 452500
OMAHA, NE 68145-2500

SHIP TO

KIEWIT INFRASTRUCTURE SOUTH CO
135 CLAUDE YATES DR.
CODY PRANGE 507-461-2432
FRANKLIN, TN 37027

INVOICE NUMBER		INVOICE DATE		TERMS		CARRIER		ROUTING				PPD/COL													
64-592112		1/30/2019		NET 30		OUR TRUCK TENNESSEE						P													
CUSTOMER NO.		CUSTOMER ORDER NO.		SLS. MGR		SLSMAN.		ORDER DATE		BILL OF LADING		RELEASE #													
44242				18		570		1/29/2019		GOODLETTSVILLE, TN DAY8		S/L 27704 056 28680 TPP													
PRODUCT		WIDTH		DIM 2		DESCRIPTION		PUTUP		IPK		QC		CS		QUANTITY		UOM		PRICE		AMOUNT		AVG	
32160						TERRAGRID RX1200 13'X164'				EA						5		RL		260.7000		1,303.50		*	
38566						TERRATEX HD NTPEP 12.5'X360'				EA						5		RL		290.0000		1,450.00		*	
95009		1.000				DELIVERY CHARGE		1		EA		EC				1		EA		65.0000		65.00		*	
99001						9.7500% TN WILLIAMSON COUNTY										1				274.8000		274.80			
						* DENOTES TAXABLE LINE ITEMS																			
CERTIFICATION: THE SELLER DOES NOT CERTIFY, EITHER IMPLICITLY OR EXPLICITLY, THESE PRODUCTS TO MEET THE REQUIREMENTS OF ANY REGULATORY AGENCY OR SPECIFICATION EXCEPT AS MAY BE CERTIFIED ABOVE OR UNDER SEPARATE WRITTEN CERTIFICATION. ALL TRANSACTIONS ARE SUBJECT TO THE CONDITIONS ON THE REVERSE SIDE OF THIS INVOICE. ****ALL RETURNS SUBJECT TO A 25% RESTOCKING FEE****																									

43715

ORIGINAL

293 THE LAWS OF THE STATE OF NORTH CAROLINA SHALL GOVERN THIS TRANSACTION. A LATE PAYMENT CHARGE AT A PER ANNUM RATE EQUAL TO THE PRIME RATE OF THE CHASE MANHATTAN BANK, N.A. IN EFFECT ON THE FIRST DAY OF EACH MONTH PLUS 2% OR 18% PER ANNUM WHICHEVER RATE IS HIGHER, WILL BE IMPOSED ON THE FIRST OF EACH MONTH ON ALL PAST DUE INVOICES PAID DURING THE MONTH.

TOTAL INVOICE
AMOUNT

3,093.30

PAGE 1 LAST 43436

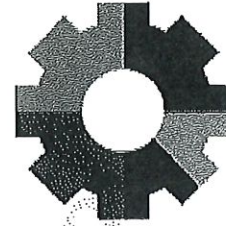
Rental Rate Blue Book®

April 29, 2019

Ford F-250 SD

On-Highway Light Duty Trucks

Size Class:
300 HP & Over
Weight:
HP


Configuration for F-250 SD

Axle Configuration	4.0 X 4.0	Cab Type	Crew
Horsepower	300.0	Power Mode	Gasoline
Ton Rating	3.0 / 4.0		

Blue Book Rates

** FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs	FHWA Rate**
	Monthly	Weekly	Daily	Hourly	Hourly	Hourly
Published Rates	\$890.00	\$250.00	\$63.00	\$9.00	\$19.65	\$24.71
Adjustments						
Region (100%)	-	-	-	-		
Model Year (2019: 100%)	-	-	-	-		
Adjusted Hourly Ownership Cost (100%)	-	-	-	-		
Hourly Operating Cost (100%)						
Total:	\$890.00	\$250.00	\$63.00	\$9.00	\$19.65	\$24.71

Non-Active Use Rates

	Hourly
Standby Rate	\$3.59
Idling Rate	\$20.74

Rate Element Allocation

Element	Percentage	Value
Depreciation (ownership)	54%	\$480.60/mo
Overhaul (ownership)	29%	\$258.10/mo
CFC (ownership)	7%	\$62.30/mo
Indirect (ownership)	10%	\$89.00/mo
Fuel (operating) @ 2.75	80%	\$15.68/hr

Revised Date: 1st half 2019

These are the most accurate rates for the selected Revision Date(s). However, due to more frequent online updates, these rates may not match Rental Rate Blue Book Print. Visit the Cost Recovery Product Guide on our Help page for more information.

The equipment represented in this report has been exclusively prepared for MICHAEL SHESTON (Michael.Sheston@klewit.com)

Rental Rate Blue Book®

May 6, 2019

Caterpillar D5K LGP (disc. 2015)

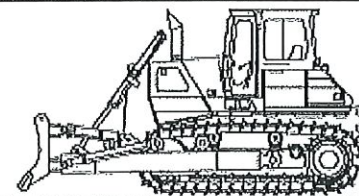
Lgp Crawler Dozers

Size Class:

85 - 104 HP

Weight:

21347 HP


Configuration for D5K LGP (disc. 2015)

Dozer Type	VPAT	Net Horsepower	96.0
Operator Protection	ROPS/FOPS	Power Mode	Diesel

Blue Book Rates

** FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs	FHWA Rate**
	Monthly	Weekly	Daily	Hourly	Hourly	Hourly
Published Rates	\$6,525.00	\$1,825.00	\$455.00	\$68.00	\$35.40	\$72.47
Adjustments						
Region (100%)	-	-	-	-		
Model Year (2015: 100%)	-	-	-	-		
Adjusted Hourly Ownership Cost (100%)	-	-	-	-		
Hourly Operating Cost (100%)					-	
Total:	\$6,525.00	\$1,825.00	\$455.00	\$68.00	\$35.40	\$72.47

Non-Active Use Rates

Hourly

Standby Rate	\$16.31
Idling Rate	\$50.25

Rate Element Allocation

Element	Percentage	Value
Depreciation (ownership)	28%	\$1,827.00/mo
Overhaul (ownership)	56%	\$3,654.00/mo
CFC (ownership)	9%	\$587.25/mo
Indirect (ownership)	7%	\$456.75/mo
Fuel (operating) @ 3.27	37%	\$13.18/hr

Revised Date: 1st half 2019

These are the most accurate rates for the selected Revision Date(s). However, due to more frequent online updates, these rates may not match Rental Rate Blue Book Print. Visit the Cost Recovery Product Guide on our Help page for more information.

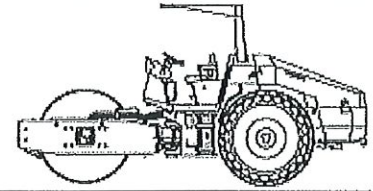
The equipment represented in this report has been exclusively prepared for MICHAEL SHESTON (Michael.Sheston@klewit.com)

Rental Rate Blue Book®

May 6, 2019

Caterpillar CS-56 (disc. 2012)
Single Drum Vibratory Compactors

Size Class:
8.0 - 11.9 MTons
Weight:
25164 MT


Configuration for CS-56 (disc. 2012)

Drum Type	Smooth	Drum Width	84.0
Net Horsepower	143.0	Power Mode	Diesel

Blue Book Rates

** FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs	FHWA Rate**
	Monthly	Weekly	Daily	Hourly	Hourly	Hourly
Published Rates	\$4,960.00	\$1,390.00	\$350.00	\$53.00	\$37.85	\$66.03
Adjustments						
Region (100%)	-	-	-	-		
Model Year (2012: 100%)	-	-	-	-		
Adjusted Hourly Ownership Cost (100%)	-	-	-	-		
Hourly Operating Cost (100%)					-	
Total:	\$4,960.00	\$1,390.00	\$350.00	\$53.00	\$37.85	\$66.03

Non-Active Use Rates

Hourly

Standby Rate	\$20.29
Idling Rate	\$40.34

Rate Element Allocation

Element	Percentage	Value
Depreciation (ownership)	48%	\$2,380.80/mo
Overhaul (ownership)	28%	\$1,388.80/mo
CFC (ownership)	13%	\$644.80/mo
Indirect (ownership)	11%	\$545.60/mo
Fuel (operating) @ 3.27	32%	\$12.16/hr

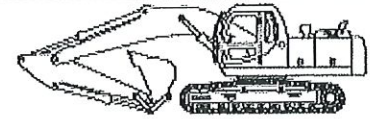
Revised Date: 1st half 2019

These are the most accurate rates for the selected Revision Date(s). However, due to more frequent online updates, these rates may not match Rental Rate Blue Book Print. Visit the Cost Recovery Product Guide on our Help page for more information.

The equipment represented in this report has been exclusively prepared for MICHAEL SHESTON (Michael.Sheston@kiewit.com)

Rental Rate Blue Book®

Caterpillar 330 L (disc. 1996)
Crawler Mounted Hydraulic Excavators



Size Class:
33.1 - 40.0 MTons
Weight:
73770 MT

Configuration for 330 L (disc. 1996)

Bucket Capacity - Heaped	1.75	Net Horsepower	222.0
Operating Weight	34.2	Power Mode	Diesel

Blue Book Rates

** FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs	FHWA Rate**
	Monthly	Weekly	Daily	Hourly	Hourly	Hourly
Published Rates	\$11,845.00	\$3,315.00	\$830.00	\$125.00	\$74.65	\$141.95
Adjustments						
Region (100%)	-	-	-	-		
Model Year (1996: 100%)	-	-	-	-		
Adjusted Hourly Ownership Cost (100%)	-	-	-	-		
Hourly Operating Cost (100%)					-	
Total:	\$11,845.00	\$3,315.00	\$830.00	\$125.00	\$74.65	\$141.95

Non-Active Use Rates

	Hourly
Standby Rate	\$35.00
Idling Rate	\$97.79

Rate Element Allocation

Element	Percentage	Value
Depreciation (ownership)	36%	\$4,264.20/mo
Overhaul (ownership)	48%	\$5,685.60/mo
CFC (ownership)	9%	\$1,066.05/mo
Indirect (ownership)	7%	\$829.15/mo
Fuel (operating) @ 3.27	41%	\$30.49/hr

Revised Date: 1st half 2019

These are the most accurate rates for the selected Revision Date(s). However, due to more frequent online updates, these rates may not match Rental Rate Blue Book Print. Visit the Cost Recovery Product Guide on our Help page for more information.

The equipment represented in this report has been exclusively prepared for MICHAEL SHESTON (Michael.Sheston@klewit.com)

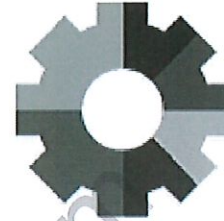
Rental Rate Blue Book®

April 2, 2020

Wacker Neuson WP1550A

Hand Held Vibratory Plate Compactors

Size Class:
To 95 Kg
Weight:
N/A


Configuration for WP1550A

Horsepower **4.8 hp** Plate Width **19.6 in**
Pounds Per Blow **3375 lbs** Power Mode **Gasoline**

Blue Book Rates

** FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs	FHWA Rate**
	Monthly	Weekly	Daily	Hourly	Hourly	Hourly
Published Rates	USD \$205.00	USD \$57.00	USD \$14.00	USD \$2.00	USD \$2.40	USD \$3.56
Adjustments						
Region (100%)	-	-	-	-		
Model Year (2020: 100%)	-	-	-	-		
Adjusted Hourly Ownership Cost (100%)	-	-	-	-		
Hourly Operating Cost (100%)					-	
Total:	USD \$205.00	USD \$57.00	USD \$14.00	USD \$2.00	USD \$2.40	USD \$3.56

Non-Active Use Rates

	Hourly
Standby Rate	USD \$0.86
Idling Rate	USD \$2.30

Rate Element Allocation

Element	Percentage	Value
Depreciation (ownership)	59%	USD \$120.95/mo
Overhaul (ownership)	26%	USD \$53.30/mo
CFC (ownership)	6%	USD \$12.30/mo
Indirect (ownership)	9%	USD \$18.45/mo
Fuel (operating) @ USD 2.51	48%	USD \$1.14/hr

Revised Date: 1st half 2020

These are the most accurate rates for the selected Revision Date(s). However, due to more frequent online updates, these rates may not match Rental Rate Blue Book Print. Visit the Cost Recovery Product Guide on our Help page for more information.

The equipment represented in this report has been exclusively prepared for MICHAEL SHESTON
(Michael.Sheston@kiewit.com)



Kiewit

Kiewit Infrastructure South Co.
4800 North Point Parkway, Suite 100
Alpharetta, GA 30022

May 20, 2020

To: Attn: Mr. Dan Harris

CP-KIEWIT-00019.00

CDM Smith, Inc.
210 25th Avenue North
Suite 1102
Nashville, TN 37203

Reference: Franklin WRF Modifications & Expansion Project
COF Contract No. 2017-0264

Subject: Solids Plumbing Changes (Odor Control Drain Modification)

Dear Mr. Harris,

Kiewit is hereby submitting a cost proposal for the **Solids Plumbing Changes (Odor Control Drain Modification)** in the amount of **Two Thousand Three Hundred Eighty-Four Dollars (\$2,384.00)**.

This proposal includes the modifications of the two existing drains in the Solids Odor Control Chemical Metering Room. All work to be completed by Kiewit's subcontractor John Buchard & Sons Co and this scope is based on email requests as well as onsite discussion between CDM and JBS personnel.

If you have any questions, please do not hesitate to contact me at (678) 794-2121.

Sincerely,

Steve Davis
Project Manager

cc: File
Michelle Hatcher

Page 1 of 1



JOHN BOUCHARD & SONS CO.
1024 Harrison Street
Nashville, TN 37203
615-256-0112

May 19, 2020

Mr. Steve Davis
Kiewit Water Facilities South Co.
135 Claude Yates Drive
Franklin, TN 37064

RE: Change Order to Modify Two Drains in Solids – Odor Control Chemical Room

Dear Mr. Davis,

Pursuant to CDM Smith's request on May 6, 2020, we have prepared this Change Order for modifying two of the existing drains in the Solids Odor Control Chemical Metering Room. This scope is based on the email request as well as onsite discussions between CDM and JBS personnel.

Drain Modification Scope:

- Chip up the concrete around the floor drain in the center of the room to allow for removal of the existing strainer.
- Furnish and install a Zurn Z415 Type D hinged solid strainer per the information provided in the CDM email.
- Pour back concrete around the new strainer.
- Fabricate and install a stainless steel ring with clips/concrete screws around the ED on the eastern wall of the room. Seal to the floor with epoxy.
- Detailed cost-loaded spreadsheet attached.

Change Order Request for Solids Drain Modifications \$ 2,270.00

Accepted On: _____ 2020

By: _____
SIGNATURE

Print Name: _____

JOHN BOUCHARD & SONS CO.

BY: David Proctor IV
SIGNATURE

Print Name David Proctor

Solids Chemical Room Drains				Hours/Task	Total Hours
Modify Drains					

Drains:

1	Chp Up FD Drain Strainer				10.00
	Zurn Z415D Drain	ferguson	\$217.89	\$217.89	8.00
	Pour Back Around New Drain	concrete		\$50.00	4.00
	Fabricate and Install SS Ring Around ED	material		\$50.00	4.00
Subtotal Plumbing Pipe & Fixtures			Material:	\$317.89	Hours: 26.00

Subcontractors				LABOR	
				Hours/Task	Total Hours

Subtotal Subcontractors			\$0.00	Hours:	0.00
-------------------------	--	--	--------	--------	------

Misc				LABOR	
				Hours/Task	Total Hours

Truck	\$97.50
Project Mgmt	
Owner Training	
warranty	

Subtotal Misc.			\$97.50	Hours:	0.00
----------------	--	--	---------	--------	------

FRANKLIN WRF - Modify Solids Chemical Room Drains	
JBS Labor Hours	26.00
Labor Cost (Plumber Wage Rate - \$60/hr)	\$1,560.00
Subtotal Plumbing Pipe & Fixtures	\$317.89
Subtotal Subcontractors	\$0.00
Subtotal Misc.	\$97.50
TOTAL COST	\$1,975.39
MARKUP (OVERHEAD & PROFIT)	15.00%
QUOTED CHANGE ORDER PRICE	\$2,271.70



FERGUSON ENTERPRISES, LLC #20
1708 ELM HILL PIKE
NASHVILLE, TN 37210-3708

Phone: 615-316-1800
Fax: 615-885-4944

Deliver To: DAVID 690-0177

From: Joseph Miller

Comments:

10:18:41 MAY 19 2020

Page 1 of 1

FERGUSON ENTERPRISES LLC #20

Price Quotation

Phone: 615-316-1800

Fax: 615-885-4944

Bid No: B669007

Bid Date: 05/11/20

Quoted By: JBM

Cust Phone: 615-256-0112

Terms: NET 10TH PROX

Customer: JOHN BOUCHARD & SONS
FRANKLIN WRF
1024 HARRISON ST
PLBG
NASHVILLE, TN 37203

Ship To: JOHN BOUCHARD
KIEWIT FRANKLIN WRF
JEREMY = 615-478-8994
FRANKLIN, TN 37064

Cust PO#:

Job Name: FRANKLIN WRF

Item	Description	Quantity	Net Price	UM	Total
SP-ZZN4154NL6DARY	P-6 ZN-415 "D" STRAINER 4 NL FLR DRN W/ 5 NB TOP AR SED BKT	1	198.560	EA	198.56
Net Total:					\$198.56
Tax:					\$0.00
Freight:					\$19.33
Total:					\$217.89

Quoted prices are based upon receipt of the total quantity for immediate shipment (48 hours). SHIPMENTS BEYOND 48 HOURS SHALL BE AT THE PRICE IN EFFECT AT TIME OF SHIPMENT UNLESS NOTED OTHERWISE. QUOTES FOR PRODUCTS SHIPPED FOR RESALE ARE NOT FIRM UNLESS NOTED OTHERWISE.

CONTACT YOUR SALES REPRESENTATIVE IMMEDIATELY FOR ASSISTANCE WITH DBE/MBE/WBE/SMALL BUSINESS REQUIREMENTS.

Seller not responsible for delays, lack of product or increase of pricing due to causes beyond our control, and/or based upon Local, State and Federal laws governing type of products that can be sold or put into commerce. This Quote is offered contingent upon the Buyer's acceptance of Seller's terms and conditions, which are incorporated by reference and found either following this document, or on the web at <https://www.ferguson.com/content/website-info/terms-of-sale>
Govt Buyers: All items are open market unless noted otherwise.

LEAD LAW WARNING: It is illegal to install products that are not "lead free" in accordance with US Federal or other applicable law in potable water systems anticipated for human consumption. Products with "NP" in the description are NOT lead free and can only be installed in non-potable applications. Buyer is solely responsible for product selection.



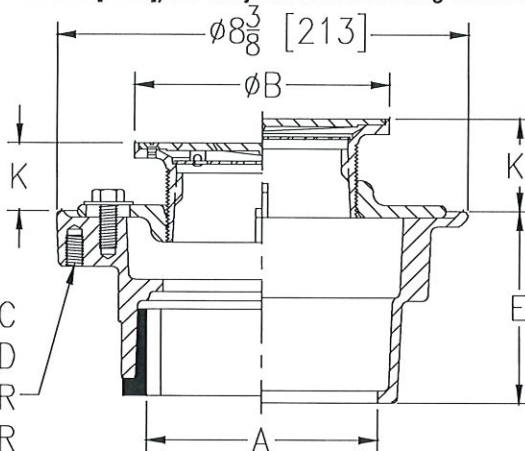
HOW ARE WE DOING? WE WANT YOUR FEEDBACK!

Scan the QR code or use the link below to
complete a survey about your bids:

<https://survey.medallia.com/?bidsorder&fc=20&on=354344>

Dimensional Data (inches and [mm]) are Subject to Manufacturing Tolerances and Change Without Notice

FOUR 3/8-16 NC
TAPPINGS PROVIDED
ON UNDERSIDE FOR
-SA, -SQ, AND -SR
SUFFIX OPTIONS ONLY



Dimensions in In [mm]						Approx. Wt. Lbs. [kg]
A - Pipe Size	B Strainer Dia.	K		K'		
		Min.	Max.	Min.	Max.	
2,3 [51,76]	5 [127]	1 [25]	1-1/2 [38]	1-3/32 [28]	2-1/4 [57]	12 [5]
2,3,4 [51,76,102]	6 [152]	1 [25]	1-25/32 [45]	1-13/32 [36]	2-17/32 [64]	14 [6]
2,3,4 [51,76,102]	7 [178]	1 [25]	2-1/8 [54]	1-23/32 [44]	2-7/8 [73]	15 [7]
3,4 [76,102]	8 [203]	1-5/32 [29]	2-1/8 [54]	1-3/4 [44]	2-7/8 [73]	17 [8]
6 [152]	8 [203]	1-5/32 [29]	2-1/8 [54]	1-3/4 [51]	2-7/8 [73]	19 [89]

ENGINEERING SPECIFICATION: ZURN ZN415D

Floor and shower drain, Dura-Coated cast iron body with bottom outlet, combination invertible membrane clamp and adjustable collar with seepage slots and "TYPE D" polished, hinged solid, nickel bronze, light-duty strainer.

OPTIONS (Check/specify appropriate options)

PIPE SIZE

2,3,4 [51,76,102]
2 [51]
3 [76]
4 [102]
6 [152]
2,3,4 [51,76,102]
2,3,4 [51,76,102]

(Specify size/type) **OUTLET**

_____ IC Inside Caulk
_____ IP Threaded
_____ IP Threaded
_____ IP Threaded
_____ IP Threaded
_____ NH No-Hub
[^] **NL Neo-Loc**

'E' BODY HT. DIM.

4-3/16 [106]
2-7/16 [62]
2-3/4 [70]
2-13/16 [71]
2-7/8 [73]
3-13/16 [97]
3-7/8 [98]

PREFIXES

_____ ZB D.C.C.I. Body Assembly w/ Polished Bronze Top
[✓] **ZN** D.C.C.I. Body Assembly w/ Polished Nickel Bronze Top*

SUFFIXES

[✓] **-AR** Acid Resisting Epoxy Coated Cast Iron
_____ -G Galvanized Cast Iron
_____ -P Trap Primer Connection (Specify 1/2 [13] or 3/4 [19])
_____ -PC Protective Cover
_____ -SA Stabilizer Assembly (See Z1035)
_____ -SQ Stabilizer Q-Deck (See Z1035-Q)
_____ -SR Stabilizer Ring
_____ -TC Neo-Loc Test Cap Gasket
(2,3,4 [51,76,102] NL Bottom Outlet Only)

_____ -U 1-3 [25-76] High Extension Adapter
_____ -V Backwater Valve
_____ -VP Vandal-Proof Secured Top
[✓] **-Y** **Sediment Bucket**
_____ -90 90° Threaded Side Outlet Body
Assembly (2,3 [51,76] Only)

* Regularly furnished unless otherwise specified.



CONSTRUCTION CHANGE AUTHORIZATION

TO: Mr. Steve Davis
Project Manager
Kiewit Water Facilities South
4405 International Blvd., NW,
Suite C-101
Norcross, Georgia 30093
(770) 940-8044

FROM: CDM Smith
210 25th Ave. N.
Suite 1102
Nashville, TN 37203
(615) 320-3161

DATE: February 7, 2020

PROJECT: City of Franklin, Tennessee
Franklin WRF Modifications & Expansion Project

CCA NUMBER: 036 **CDM SMITH PROJ. NO.:** 14915-231666

SUBJECT: 20" FEQ **CITY PROJECT NO.:** 2017-0264

REFERENCE: (See Below)

DESCRIPTION: During installation of the 20" FEQ piping, the original Influent Pump Station was discovered partially demolished below grade and in conflict with the new pipe routing as shown on the attached markup to Sh. C-18. The conflicting structure will require additional demolition to eliminate the conflict. All work to be performed on a time and materials basis, quantities to be verified by CDM Smith.

CDM SMITH:

By: _____

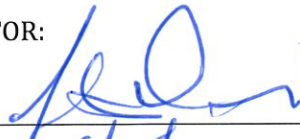
Date: _____


6/25/20

CONTRACTOR:

By: _____

Date: _____


6/25/20

City of Franklin

By:

Mellen Hutch

Date:

06/25/20



Kiewit

Kiewit Infrastructure South Co.
4800 North Point Parkway, Suite 100
Alpharetta, GA 30022

March 20, 2020

To: Attn: Mr. Dan Harris

CCA-KIEWIT-00034.00

CDM Smith, Inc.
210 25th Avenue North
Suite 1102
Nashville, TN 37203

Reference: Franklin WRF Modifications & Expansion Project
COF Contract No. 2017-0264

Subject: Construction Change Authorization No. 036 – 20" FEQ

Dear Mr. Harris,

Kiewit is hereby submitting a cost proposal for **CCA No. 036 – 20" FEQ** in the amount of **Thirty Four Thousand Six Hundred Fifty Eight (\$34,658.00)**

This proposal includes the extra work required to remove the original Influent Pump Station that was discovered partially demolished, below grade, and in conflict with the new pipe routing as shown on the attached markup to **Sh. C-18**. The conflicting structure will require additional demolition to eliminate the conflict.

If you have any questions, please do not hesitate to contact me at (678) 794-2121.

Sincerely,

Steve Davis
Project Manager

cc: File
Michelle Hatcher

PREPARED BY: Kian Lawlor

CCA 036 Cost Proposal



Page 143 of 468
Klewit Infrastructure South Co.

Date of Work 01/21/2020

PCO Number

☒ Day Shift
☐ Night Shift
☐ Material or Subcontractor
☐ Force Account Work
☐ Outside Work
☐ Equipment Lease or
☐ Vendor Invoice

☐ Outside Work☐ Vendor Invoice

Description of Work	Concrete demo of pump station in conflict with 20in EQ line
Done	

[illegible]

Approval for Owner
By Jim Tond
Signature, Title & Date

Approved for Kiewit

By _____
Signature, Title & Date

Date of Work 01/22/2020

PCO Number

☒ Day Shift
☐ Night Shift
☐ Material or Subcontractor
☐ Force Account Work
☐ Outside Work
☐ Equipment Lease or
☐ Vendor Invoice

Description of Work Done

Concrete demo of pump station in conflict with 20in EQ line

By Om L. [Signature]
Signature, Title & Date

Approved for Klewit
By [Signature] 1/23/20 Engineer
Signature, Title & Date

Date of Work **01/23/2020**

PCO Number _____

☒ Day Shift
☐ Night Shift
☐ Material or Subcontractor
☐ Force Account Work
☐ Outside Work
☐ Equipment Lease or
☐ Vendor Invoice

Description of Work Done

Trench backfill at 20" EQ line. Trench became unsafe due to demo activity combined with unsuitable backfill of existing pump station.

By OM Signature, Title & Date

Approved for Kiewit

By _____
Signature, Title & Date

Date of Work 01/24/2020

(Issued By)

PCO Number:

(Address)

(Issued to)

(Address)

General Contractor: **Kiewit** Subcontractor:

Subcontractor:

- ☒ Day Shift
- ☐ Night Shift
- ☐ Material or Subcontractor
- ☐ Force Account Work
- ☐ Outside Work
- ☐ Equipment Lease or
- ☐ Vendor Invoice

Excavated and set trench boxes and plates to safe up the trench.
Needed to break additional concrete to set boxes. 20in EQ line.

Approval for Owner—
By [Signature]
Signature, Title & Date

Approved for Kiewit

By _____ Signature, Title & Date

Date of Work 01/27/2020

Cont. No. _____ (Address) _____

PCO Number _____

To: _____
(Issued to)

(Address)

- ☒ Day Shift
☐ Night Shift
☐ Material or Subcontractor
☐ Force Account Work
☐ Outside Work
☐ Equipment Lease or
☐ Vendor Invoice

General Contractor: **Kiewit** Subcontractor:

Description of Work Done	<u>Had to excavate and break concrete to return trench to condition prior to deterioration due to unstable backfill of existing pump station.</u>
--------------------------	---

[illegible]

Approval for Owner
By
Signature, Title & Date

Approved for Kiewit

By _____ Signature, Title & Date

Page 149 of 468
Kiewit Infrastructure South Co.

Page 150 of 468
Kiewit Infrastructure South Co.

EXTRA WORK SHEET



Co. No. 1014 Job No. 103925 _____
(Issued By)

Date of Work 02/06/2020

Cont. No. _____
(Address)

PCO Number _____

To: _____
(Issued to)

- ☒ Day Shift
- ☐ Night Shift
- ☐ Material or Subcontractor
- ☐ Force Account Work
- ☐ Outside Work
- ☐ Equipment Lease or
- ☐ Vendor Invoice

_____ (Address)

General Contractor: Kiewit Subcontractor: _____

Description of Work Removed steel plates and worked on slope at the Meter Vault
Done location - 20" EQ Line

Employee No.	Detail of Labor (Including Foreman, Engineers, Superintendents, QA & QC)	Hours (Straight Time)	Hours (Overtime)	Hours (Double Time)
432373	Abel Banda (Pipe Layers)	4.5		
427479	Barry Payne (Foreman)	5.5		
428292	David Bolton Jr (Pipe Layers)	4.5		
433303	Lennell Smith (Track Hoe Operator)	4.5		
Labor Totals		19		
Equipment No.	Detail of Equipment	Hours		
	335 Excavator (Bucket)	4.5		
Equipment Totals				
Detail of Materials				

Approval for Owner
By [Signature]
Signature, Title & Date 2/24/20

Approved for Kiewit
By [Signature]
Signature, Title & Date

EXTRA WORK SHEET



Co. No. 1014 Job No. 103925 _____
(Issued By)

Date of Work 02/17/2020

Cont. No. _____
(Address)

PCO Number _____

To: _____
(Issued to)

- ☒ Day Shift
- ☐ Night Shift
- ☐ Material or Subcontractor
- ☐ Force Account Work
- ☐ Outside Work
- ☐ Equipment Lease or
- ☐ Vendor Invoice

_____ (Address)

General Contractor: Kiewit Subcontractor: _____

Description of Work Done Mobilize, set up, assist and demob for Man hole investigation with City of Franklin - 20" EQ Line

Employee No.	Detail of Labor (Including Foreman, Engineers, Superintendents, QA & QC)	Hours (Straight Time)	Hours (Overtime)	Hours (Double Time)
432373	Abel Banda (Pipe Layers)	4		
427479	Barry Payne (Foreman)	4		
428292	David Bolton Jr (Pipe Layers)	4		
Labor Totals		12		

Equipment No.	Detail of Equipment	Hours

Equipment Totals

Detail of Materials

Approval for Owner
By [Signature]
Signature, Title & Date 2/24/20

Approved for Kiewit
By [Signature]
Signature, Title & Date

General Contractor: **Kiewit** Subcontractor:

Page 154 of 468
Klewit Infrastructure South Co.



VOLUNTEER HOSE & GASKET, INC.

INVOICE NO.

P.O. BOX 101505

2306871

NASHVILLE, TN 37224-1505

PHONE: (615)242-0461

FAX: (615)244-6168

EMAIL: AR@VOLUNTEERHOSE.NET

SHIP
TO

KIEWIT INFRASTRUCTURE,
SOUTH COMPANY
1700 HAYES ST.- SUITE 103
NASHVILLE TN 37203-0000

** RE-PRINT **

SOLD
TO

KIEWIT INFRASTRUCTURE, 3823
SOUTH CO.
PO BOX 452500
OMAHA NE 68145-0000

DATE	1/24/20
CUST. ORDER NO.	8576300
OUR SHOP NO.	00139717/18795100
DATE SHIPPED	1/20/20 NET 30
ACCOUNT NO.	3823

QUANTITY		UM	DESCRIPTION	UNIT PRICE	TOTAL AMOUNT
ORDERED	SHIPPED				
3	3	EA	100436F52020 20 HYD ADAPTER UHP 45	196.2233	588.67
2	2	EA	1004600C2000 20 HYD CAP ADAPTER	39.6850	79.37
2	2	EA	100430002000 20 HYD ADAPTER PLUG	24.9850	49.97
MERCHANDISE AMOUNT:					718.01
SALES TAX AMOUNT:					66.42
PAY THIS AMOUNT:					784.43
Hydraulic Adapter Thank You! TERMS: NET 30 DAYS ACCOUNT PLACED ON HOLD AFTER 45 DAYS					

A SERVICE CHARGE OF 1 1/2% PER MONTH (18% ANNUALLY) ON ALL BALANCES OVER 30 DAYS PAST DUE, WILL BE ADDED TO THE ACCOUNT.

PAY FROM THIS INVOICE - NO STATEMENT SENT

NO RETURNS ACCEPTED AFTER 30 DAYS



VOLUNTEER HOSE & GASKET, INC.

INVOICE NO.

P.O. BOX 101505

NASHVILLE, TN 37224-1505

2306876

PHONE: (615)242-0461

FAX: (615)244-6168

EMAIL: AR@VOLUNTEERHOSE.NET

SHIP
TO

KIEWIT INFRASTRUCTURE,
SOUTH COMPANY
1700 HAYES ST. - SUITE 103
NASHVILLE TN 37203-0000

** RE-PRINT **

SOLD
TO

KIEWIT INFRASTRUCTURE, 3823
SOUTH CO.
PO BOX 452500
OMAHA NE 68145-0000

DATE

1/24/20

CUST. ORDER NO.

8576300

OUR SHOP NO.

00139721/18795600

DATE SHIPPED

1/20/20 NET 30

ACCOUNT NO.

3823

QUANTITY		UM	DESCRIPTION	UNIT PRICE	TOTAL AMOUNT
ORDERED	SHIPPED				
2	2	EA	1004FK622000 20 FLANGE KIT	80.7850	161.57
2	2	EA	1004HF622000 20 FLANGE HALF HD	27.6250	55.25
MERCHANDISE AMOUNT:					216.82
SALES TAX AMOUNT:					20.06
PAY THIS AMOUNT:					236.88
20" Flange Thank You! TERMS: NET 30 DAYS ACCOUNT PLACED ON HOLD AFTER 45 DAYS					

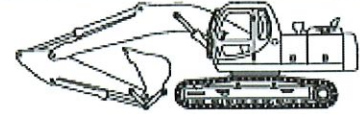
A SERVICE CHARGE OF 1 1/2% PER MONTH (18% ANNUALLY) ON ALL BALANCES OVER 30 DAYS PAST DUE, WILL BE ADDED TO THE ACCOUNT.

PAY FROM THIS INVOICE - NO STATEMENT SENT

NO RETURNS ACCEPTED AFTER 30 DAYS

Rental Rate Blue Book®

March 16, 2020

Caterpillar 335F L CR
Crawler Mounted Hydraulic Excavators

Size Class:
40.1 - 50.0 MTons
Weight:
N/A

Configuration for 335F L CR

Bucket Capacity - Heaped	2.2 cu yd	Net Horsepower	199.8 hp
Operating Weight	84604.6 lbs	Power Mode	Diesel

Blue Book Rates

** FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs	FHWA Rate**
	Monthly	Weekly	Daily	Hourly	Hourly	Hourly
Published Rates	USD \$16,435.00	USD \$4,600.00	USD \$1,150.00	USD \$175.00	USD \$74.08	USD \$167.46
Adjustments						
Region (100%)	-	-	-	-		
Model Year (2020: 100%)	-	-	-	-		
Adjusted Hourly Ownership Cost (100%)	-	-	-	-		
Hourly Operating Cost (100%)					-	
Total:	USD \$16,435.00	USD \$4,600.00	USD \$1,150.00	USD \$175.00	USD \$74.08	USD \$167.46

Non-Active Use Rates

	Hourly
Standby Rate	USD \$49.49
Idling Rate	USD \$119.06

Rate Element Allocation

Element	Percentage	Value
Depreciation (ownership)	37%	USD \$6,080.95/mo
Overhaul (ownership)	46%	USD \$7,560.10/mo
CFC (ownership)	10%	USD \$1,643.50/mo
Indirect (ownership)	6%	USD \$986.10/mo
Fuel (operating) @ USD 3.07	35%	USD \$25.68/hr

Revised Date: 1st half 2020

These are the most accurate rates for the selected Revision Date(s). However, due to more frequent online updates, these rates may not match Rental Rate Blue Book Print. Visit the Cost Recovery Product Guide on our Help page for more information.

The equipment represented in this report has been exclusively prepared for MICHAEL SHESTON
(Michael.Sheston@kiewit.com)

Rental Rate Blue Book®

March 16, 2020

Caterpillar 938K (disc. 2015)

4-Wd Articulated Wheel Loaders

Size Class:
150 - 174 HP
Weight:
35104 lbs


Configuration for 938K (disc. 2015)

Bucket Capacity - Heaped	3.2 cu yd	Net Horsepower	173.0 hp
Operator Protection	ROPS/FOPS	Power Mode	Diesel

Blue Book Rates

** FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs	FHWA Rate**
	Monthly	Weekly	Daily	Hourly	Hourly	Hourly
Published Rates	USD \$6,770.00	USD \$1,895.00	USD \$475.00	USD \$71.00	USD \$36.36	USD \$74.83
Adjustments						
Region (100%)	-	-	-	-		
Model Year (2015: 100%)	-	-	-	-		
Adjusted Hourly Ownership Cost (100%)	-	-	-	-		
Hourly Operating Cost (100%)					-	
Total:	USD \$6,770.00	USD \$1,895.00	USD \$475.00	USD \$71.00	USD \$36.36	USD \$74.83

Non-Active Use Rates

	Hourly
Standby Rate	USD \$24.23
Idling Rate	USD \$55.41

Rate Element Allocation

Element	Percentage	Value
Depreciation (ownership)	41%	USD \$2,775.70/mo
Overhaul (ownership)	37%	USD \$2,504.90/mo
CFC (ownership)	12%	USD \$812.40/mo
Indirect (ownership)	10%	USD \$677.00/mo
Fuel (operating) @ USD 3.07	47%	USD \$16.94/hr

Revised Date: 1st half 2020

These are the most accurate rates for the selected Revision Date(s). However, due to more frequent online updates, these rates may not match Rental Rate Blue Book Print. Visit the Cost Recovery Product Guide on our Help page for more information.

The equipment represented in this report has been exclusively prepared for MICHAEL SHESTON
(Michael.Sheston@kiewit.com)

From 1-20
To 1-28

[Hourly Rates]

TECH OBJ TYP	DESCRIPTION	CURRENT US RATE	NEW US RATE	NEW CAD RATE*	CHANGE (\$)	CHANGE (%)
49-02	DRILL - TRUCK MOUNTED	\$ 152.00	\$ 152.00	\$ 190.00	\$ -	0.0%
49-04	DRILL - LOADER MOUNTED	\$ 93.00	\$ 93.00	\$ 116.25	\$ -	0.0%
49-06	DRILL - EXCAVATOR MOUNTED	\$ 120.00	\$ 120.00	\$ 150.00	\$ -	0.0%
49-08	DRILL - SLAB DRILL	\$ 21.00	\$ 21.00	\$ 26.25	\$ -	0.0%
49-20	DRILL - HYDR TRACK (1 1/2" - 2 1/2")	\$ 86.00	\$ 86.00	\$ 107.50	\$ -	0.0%
49-22	DRILL - HYDR TRACK (2" - 3 1/2")	\$ 188.00	\$ 188.00	\$ 235.00	\$ -	0.0%
49-24	DRILL - HYDR TRACK (2 1/2" - 4 1/2")	\$ 254.00	\$ 254.00	\$ 317.50	\$ -	0.0%
49-26	DRILL - HYDR TRACK (4 1/8" - 6")	\$ 354.00	\$ 354.00	\$ 442.50	\$ -	0.0%
49-28	DRILL - HYDR TRACK (7" - 9 7/8")	\$ 625.00	\$ 625.00	\$ 781.25	\$ -	0.0%
49-30	DRILL - HYDR TRACK (9 7/8" - 12 1/2")	\$ 846.00	\$ 846.00	\$ 1,057.50	\$ -	0.0%
49-32	DRILL - HYDR TRACK (TIE-BACK)	\$ 142.00	\$ 142.00	\$ 177.50	\$ -	0.0%
49-40	DRILL - AIR TRACK	\$ 48.00	\$ 48.00	\$ 60.00	\$ -	0.0%
49-50	DRILL - BLASTHOLE PULDOWN 25-47K LB	\$ 154.00	\$ 154.00	\$ 192.50	\$ -	0.0%
49-51	DRILL - BLASTHOLE PULDOWN 48-62K LB	\$ 220.00	\$ 220.00	\$ 275.00	\$ -	0.0%
49-52	DRILL - BLASTHOLE PULDOWN 63-80K LB	\$ 250.00	\$ 250.00	\$ 312.50	\$ -	0.0%
49-53	DRILL - BLASTHOLE PULDOWN 81-100K LB	\$ 310.00	\$ 310.00	\$ 387.50	\$ -	0.0%
49-54	DRILL - BLASTHOLE PULDOWN >100K LB	\$ 375.00	\$ 375.00	\$ 468.75	\$ -	0.0%
49-55	DRILL - ROOF BOLTER	\$ 134.00	\$ 134.00	\$ 167.50	\$ -	0.0%
49-58	DRILL - JUMBO	\$ 205.00	\$ 205.00	\$ 256.25	\$ -	0.0%
49-59	DRILL - ROOF BOLTER	\$ 134.00	\$ 134.00	\$ 167.50	\$ -	0.0%
49-60	DRILL - PILE TOP	\$ 205.00	\$ 205.00	\$ 256.25	\$ -	0.0%
49-62	DRILL - REVERSE CIRCULATION	\$ 100.00	\$ 100.00	\$ 125.00	\$ -	0.0%
49-70	DRILL - DIRECTIONAL UTILITY DRILL	\$ 60.00	\$ 60.00	\$ 75.00	\$ -	0.0%
49-76	DRILL - DIRECTIONAL SUPPORT EQUIPMENT	\$ 20.00	\$ 20.00	\$ 25.00	\$ -	0.0%
49-80	DRILL - CLUSTER	\$ 600.00	\$ 600.00	\$ 750.00	\$ -	0.0%
50-02	STEAM CLEANER	\$ 10.00	\$ 10.00	\$ 12.50	\$ -	0.0%
50-04	HIGH PRESSURE WASHER	\$ 29.00	\$ 20.00	\$ 25.00	\$ (9.00)	-31.0%
50-06	NLB 1012 WATER BLASTER	\$ 5.00	\$ 5.00	\$ 6.25	\$ -	0.0%
50-10	STEAM BOILER	\$ 13.00	\$ 13.00	\$ 16.25	\$ -	0.0%
51-02	TRENCHER - RESIDENTIAL WALK BEHIND	\$ 10.00	\$ 10.00	\$ 12.50	\$ -	0.0%
51-04	TRENCHER - RUBBER TIED / BAR	\$ 10.00	\$ 10.00	\$ 12.50	\$ -	0.0%
51-06	TRENCHER - WHEEL	\$ 50.00	\$ 50.00	\$ 62.50	\$ -	0.0%
52-01	ATTACHMENT - WHEEL LOADER	\$ -	\$ -	\$ -	\$ -	0.0%
52-02	ATV	\$ 2.00	\$ 2.00	\$ 2.50	\$ -	0.0%
52-03	ATTACHMENT - EXCAVATOR	\$ -	\$ -	\$ -	\$ -	0.0%
52-04	HO-PAC	\$ 20.00	\$ 20.00	\$ 25.00	\$ -	0.0%
52-05	BREAKER - PEDESTAL	\$ 20.00	\$ 20.00	\$ 25.00	\$ -	0.0%
52-06	SHEAR - CONCRETE	\$ 25.00	\$ 25.00	\$ 31.25	\$ -	0.0%
52-07	ATTACHMENT - BALDERSON	\$ -	\$ -	\$ -	\$ -	0.0%
52-08	BREAKER - HYDRAULIC	\$ 33.00	\$ 33.00	\$ 41.25	\$ -	0.0%
52-09	COMPACTION WHEEL	\$ 2.50	\$ 2.50	\$ 3.13	\$ -	0.0%
52-10	BUCKET ELEVATOR	\$ -	\$ -	\$ -	\$ -	0.0%
52-11	AUGER	\$ -	\$ -	\$ -	\$ -	0.0%
52-12	SEEDER	\$ -	\$ -	\$ -	\$ -	0.0%
52-13	WOOD CHIPPER	\$ 3.00	\$ 3.00	\$ 3.75	\$ -	0.0%
52-14	CABLE REEL / PULLER	\$ 7.00	\$ 7.00	\$ 8.75	\$ -	0.0%
52-15	FIBER BLOWER	\$ -	\$ -	\$ -	\$ -	0.0%
52-16	PLATFORM BED	\$ -	\$ -	\$ -	\$ -	0.0%
52-17	SAND BLASTER	\$ -	\$ -	\$ -	\$ -	0.0%
52-18	PROFILAGRAPH	\$ -	\$ -	\$ -	\$ -	0.0%
52-19	CLARIFIER	\$ -	\$ -	\$ -	\$ -	0.0%
52-20	POWER PACK	\$ -	\$ -	\$ -	\$ -	0.0%
52-21	LASER SYSTEM	\$ -	\$ -	\$ -	\$ -	0.0%
52-22	TIRE HANDLER	\$ -	\$ -	\$ -	\$ -	0.0%
52-23	POWER DISTRIBUTOR PANEL	\$ -	\$ -	\$ -	\$ -	0.0%
52-24	SUBSTATION	\$ -	\$ -	\$ -	\$ -	0.0%
52-25	SWITCHGEAR	\$ -	\$ -	\$ -	\$ -	0.0%
52-26	TRANSFORMER	\$ -	\$ -	\$ -	\$ -	0.0%
52-27	HEAT SYSTEM	\$ 30.00	\$ 30.00	\$ 37.50	\$ -	0.0%
52-28	SPACE HEATER	\$ 3.00	\$ 3.00	\$ 3.75	\$ -	0.0%
52-29	SUBMERGED GANTRY	\$ -	\$ -	\$ -	\$ -	0.0%
52-30	WEATHER STATION	\$ -	\$ -	\$ -	\$ -	0.0%
52-31	FUSION MACH 2"IPS-8"DIPS (TRACSTAR 28)	\$ 10.00	\$ 10.00	\$ 12.50	\$ -	0.0%
52-32	FUSION MACH 4"IPS-12"DIPS (TRACSTAR 412)	\$ 15.00	\$ 15.00	\$ 18.75	\$ -	0.0%
52-33	FUSION MACH 6"IPS-18"DIPS (TRACSTAR 618)	\$ 20.00	\$ 20.00	\$ 25.00	\$ -	0.0%
52-34	FUSION MACH 12"IPS-36"DIPS (TRACSTAR 900)	\$ 95.00	\$ 95.00	\$ 118.75	\$ -	0.0%
52-35	FUSION MACHINE >36" IPS	\$ 115.00	\$ 115.00	\$ 143.75	\$ -	0.0%
52-36	WHEELBRATOR	\$ -	\$ -	\$ -	\$ -	0.0%
52-37	TESTER	\$ -	\$ -	\$ -	\$ -	0.0%
52-38	FIT UP STATION	\$ -	\$ -	\$ -	\$ -	0.0%
52-39	BRUSH BLOWER	\$ -	\$ -	\$ -	\$ -	0.0%
52-40	H2O DIST SYSTEM	\$ -	\$ -	\$ -	\$ -	0.0%
52-41	ASH MEASURE SYSTEM	\$ -	\$ -	\$ -	\$ -	0.0%
52-42	MONITORS CALL	\$ -	\$ -	\$ -	\$ -	0.0%
52-43	VACUUM RECOVERY SYSTEM	\$ -	\$ -	\$ -	\$ -	0.0%
52-44	MATERIAL ANALYZER	\$ 8.00	\$ 8.00	\$ 10.00	\$ -	0.0%
52-45	WEIGH TESTER	\$ -	\$ -	\$ -	\$ -	0.0%
52-46	COIL ROD BENDER	\$ -	\$ -	\$ -	\$ -	0.0%
52-47	FLAW DETECTOR	\$ -	\$ -	\$ -	\$ -	0.0%
52-48	PULVERIZER	\$ -	\$ -	\$ -	\$ -	0.0%

Hammer Attachment

Trucking Subcontract

ATTACHMENT A SCOPE OF WORK

Job Number: 103925
Trucking Agreement No. 103925-TA-001

Franklin WRF Modifications & Expansion Project
City of Franklin, TN
Project No: 103925

Trucker: T&W Construction LLC
Trucking Agreement No.: 103925-TA-001
Contract ID Number: TXXXXXX-XXX
Trucking Agreement Date: 10/18/18

Schedule of Values

Item	Description	Approx. Quantity	Unit of Measure	Unit Price	Total
1	Tri-Axle Dump Trucks	3,485	HR	\$ 90.00	\$ 313,650.00
				\$ -	\$ -
	Approximate Agreement Total (including Taxes)				\$ 313,650.00

1.0 General Description of the "Work": Hourly Truck Hauling

- 1 Trucking of on-site material to stockpile, waste site as well as on-site hauls as directed by Contractor. Off-site hauls will be as directed by Contractor and to Contractor approved locations for legal disposal of waste.

2.0 Inclusions:

- 1 All applicable taxes shall be included in Trucker's pricing.
- 2 Trucker is responsible for all fines and traffic related tickets.
- 3 Trucker shall attend Contractor daily coordination/schedule meetings as determined by the Contractor.
- 4 Necessary permits required for hauling are the responsibility of the Trucker.
- 5 Trucker will appoint a representative whom will supervise performance of Work on site and coordinate Work as directed by the Contractor.
- 6 Trucker's equipment, including trucking, must be checked for leaks as to avoid any spills on site. Environmental concerns are high and Trucker shall comply with all state and federal environmental regulations including but not limited to having spill kits for dealing with spills as a result of Trucker's operations.
- 7 Truck drivers to have reflective vests, shirts with sleeves, hard hat, safety glasses, gloves, leather work boots and pants while on site.
- 8 Trucks will be in safe working condition, with backup alarms and functioning lights.
- 9 All required permits and licenses required for completing the scope of Work.
- 10 Night and weekend work is included at no additional cost.
- 11 Trucker to provide hauling tickets daily for Contractor to verify and sign. Additionally, Trucker will utilize Five Cubits software for tracking, provided by Contractor.
- 12 Trucker to clean truck of loose materials prior exiting Project site.
- 13 Trucker to provide copies of any lease agreement for Contractor to review and approve prior to using any outside leased trucks on the Project.

3.0 Exclusions:

- 1 Traffic Control.

4.0 Clarifications:

CONSTRUCTION CHANGE AUTHORIZATION

TO: Mr. Steve Davis
Project Manager
Kiewit Water Facilities South
4405 International Blvd., NW,
Suite C-101
Norcross, Georgia 30093
(770) 940-8044

FROM: CDM Smith
210 25th Ave. N.
Suite 1102
Nashville, TN 37203
(615) 320-3161

DATE: May 27, 2020

PROJECT: City of Franklin, Tennessee
Franklin WRF Modifications & Expansion Project

CCA 46
NUMBER:

CDM SMITH PROJ. NO.: 14915-231666

SUBJECT: Aerator 2C

CITY PROJECT NO.: 2017-0264

REFERENCE: (See Below)

DESCRIPTION: Remove, disassemble and inspect the gearbox for Aerator 2C from BNR Basin No. 2 and provide recommendations for repair or replacement.

CDM SMITH:

By: [Signature]
Date: 6/25/20

CONTRACTOR:

By: _____
Date: 6/25/20

City of Franklin:

City of Franklin:
By: Melvin Hatch
Date: 6/25/20



Kiewit Infrastructure South Co.
4800 North Point Parkway, Suite 100
Alpharetta, GA 30022

May 20, 2020

To: Attn: Mr. Dan Harris

CP-KIEWIT-00018.00

CDM Smith, Inc.
210 25th Avenue North
Suite 1102
Nashville, TN 37203

Reference: Franklin WRF Modifications & Expansion Project
COF Contract No. 2017-0264

Subject: BNR Basin #2 Gearbox Inspection

Dear Mr. Harris,

Kiewit is hereby submitting a cost proposal for the **BNR Basin #2 Gearbox Inspection in the amount of Thirteen Thousand Six Hundred Twenty Seven Dollars (\$13,627.)**

This cost proposal includes labor to remove, inspect, and repair or replace one Sumitomo gearbox. Work to be completed by John Buchard and Sons Co. with subcontract support from Kiewit.

If you have any questions, please do not hesitate to contact me at (678) 794-2121.

Sincerely,

A handwritten signature in black ink, appearing to read 'Steve Davis'.

Steve Davis
Project Manager

cc: File
Michelle Hatcher

Kiewit Infrastructure South Co.
4405 International Blvd, Suite #C101
Norcross, Georgia 30093



DATE: 05-18-20

PCO NO.: BNR Basin #2 Gearbox

PREPARED BY: Kian Lawlor

DESCRIPTION	QTY	UNIT	MH Per Unit	Total MH	DIRECT LABOR		INDIRECT LABOR		MATERIAL		CONST. EQUIPMENT		SUBCONTRACT		OTHER		TOTAL AMOUNT
					Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	
						\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	\$ -
BNR Basin #2 Gearbox						\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	\$ -
Subcontracts	1.00	Ea				\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	\$ -
John Buchard & Sons Co.	1.00	LS				\$ -		\$ -		\$ -		\$ -	\$ 12,580.00	\$ 12,580.00		\$ -	\$ 12,580.00
						\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	\$ -
Subcontractor Support	4.00	Hr	1.00	4		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	\$ -
Foreman	1.00	Ea	4.00	4	\$ 61.04	\$ 244.16		\$ -		\$ -		\$ -		\$ -		\$ -	\$ 244.16
F-250 Pick Up	1.00	Ea	4.00	4		\$ -		\$ -		\$ -	\$ 24.11	\$ 96.44		\$ -		\$ -	\$ 96.44
						\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	\$ -
**Construction Equipment Ownership & Operating Costs are based on Blue Book FHWA Rates.						\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	\$ -
						\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	\$ -
						\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	\$ -
						\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	\$ -
						\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	\$ -
OTHER						\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	\$ -
STS - small tools, consumables, safety equip. (5% of direct labor, plus 9.75% sales tax: Formula = Total Direct Labor Subtotal * .05 * 1.0925)					4	MHR		\$ -							\$ 3.05	\$ 12.21	\$ 12.21
TAX: (9.75% of Material, Equipment, Other)												\$ 9.40				\$ 1.19	\$ 10.59
BOND (2% of total)																	\$ -
SUBTOTALS				12		\$ 244.16		\$ -		\$ -		\$ 105.84		\$ 12,580.00		\$ 13.40	\$ 12,943.40
MARKUP %						15.00%		15.00%		15.00%		15.00%		5.00%		15.00%	\$ 683.51
SUBTOTALS WITH MARKUPS APPLIED						\$ 280.78						\$ 121.72		\$ 13,209.00		\$ 15.41	\$ 13,626.91
BOND																	
TOTAL																	\$ 13,627.00

JOHN BOUCHARD & SONS CO.

CONSTRUCTION SERVICES DIVISION

MECHANICAL CONTRACTING
BOUCHARD FIRE PROTECTION
ELECTRICAL CONTRACTING



INDUSTRIAL DISTRIBUTION DIVISION

PUMPING SYSTEMS
AIR COMPRESSORS
INDUSTRIAL SALES

MACHINE SERVICES DIVISION

REPAIR / FABRICATION / SHOP SERVICES

FOUNDRY DIVISION

IRON CONSTRUCTION CASTINGS

QUOTATION

PAGE 1 OF 1

JBS DEPT.: MACHINE SERVICES

DATE May 18, 2020

Kiewit

JOB: Aerator Gear box

Attn: Steve Davis

Labor to remove one Sumitomo gear box. Deliver to our facility disassemble, and quote to repair or replace with new equipment. Crane service is included.

\$12,580.00

F.O.B.: _____

DELIVERY: _____

Payment Terms

Contracts: Progress Applications for Payment will be submitted on or about the 25th day of each month and will be due and payable by the 10th day of the following month. Final Payment will be due Net 10th Prox.

All other work: Net 10th Prox.

NOTE: THIS PROPOSAL SUBJECT TO ACCEPTANCE WITHIN 30 DAYS

ACCEPTED ON _____ 2020

JOHN BOUCHARD & SONS CO.

BY: _____

SIGNATURE

Print Name _____

Title _____

BY: Michael Jackson

SIGNATURE

Print Name Michael Jackson
michael.jackson@jbouchard.com

Title Project Manager Machine Shop
Phone 615 406-6944

OFFICE 615-256-0112

1024 HARRISON STREET • NASHVILLE, TN 37203
www.JBouchard.com • email: info@JBouchard.com

FAX 615-256-2427

Rental Rate Blue Book®
Ford F-250 SD

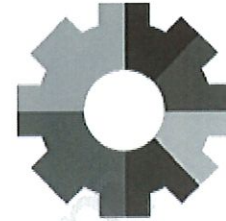
On-Highway Light Duty Trucks

Size Class:

300 HP & Over

Weight:

N/A


Configuration for F-250 SD

Axle Configuration	4.0 X 4.0	Cab Type	Crew
Horsepower	300.0 hp	Power Mode	Gasoline
Ton Rating	3.0 / 4.0		

Blue Book Rates

** FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs	FHWA Rate**
	Monthly	Weekly	Daily	Hourly	Hourly	Hourly
Published Rates	USD \$900.00	USD \$255.00	USD \$64.00	USD \$10.00	USD \$19.00	USD \$24.11
Adjustments						
Region (100%)	-	-	-	-		
Model Year (2020: 100%)	-	-	-	-		
Adjusted Hourly Ownership Cost (100%)	-	-	-	-		
Hourly Operating Cost (100%)					-	
Total:	USD \$900.00	USD \$255.00	USD \$64.00	USD \$10.00	USD \$19.00	USD \$24.11

Non-Active Use Rates

Hourly

Standby Rate	USD \$3.73
Idling Rate	USD \$20.16

Rate Element Allocation

Element	Percentage	Value
Depreciation (ownership)	54%	USD \$486.00/mo
Overhaul (ownership)	27%	USD \$243.00/mo
CFC (ownership)	7%	USD \$63.00/mo
Indirect (ownership)	12%	USD \$108.00/mo
Fuel (operating) @ USD 2.51	79%	USD \$15.05/hr

Revised Date: 1st half 2020

These are the most accurate rates for the selected Revision Date(s). However, due to more frequent online updates, these rates may not match Rental Rate Blue Book Print. Visit the Cost Recovery Product Guide on our Help page for more information.

The equipment represented in this report has been exclusively prepared for **MICHAEL SHESTON**
(Michael.Sheston@kiewit.com)

CONSTRUCTION CHANGE AUTHORIZATION

TO: Mr. Steve Davis
Project Manager
Kiewit Water Facilities South
4405 International Blvd., NW,
Suite C-101
Norcross, Georgia 30093
(770) 940-8044

FROM: CDM Smith
210 25th Ave. N.
Suite 1102
Nashville, TN 37203
(615) 320-3161

DATE: May 17, 2019

PROJECT: City of Franklin, Tennessee
Franklin WRF Modifications & Expansion Project

CCA NUMBER: 010 **CDM SMITH PROJ. NO.:** 14915-231666

SUBJECT: New UV Disinfection
System Revisions **CITY PROJECT NO.:** 2017-0264

REFERENCE: Drawings C-18, C-28, S-31, S-32, M-39, M-40, and MD-7
Specification Section 11265

DESCRIPTION:

The purpose of this CCA is to reissue the above referenced drawings to document elevation changes and other changes at the new UV disinfection structure, as agreed upon by the Engineer and TrojanUV. The Civil and Process Mechanical drawings have also been modified to clarify the installation requirements for the automatic effluent sampler. Please refer to the attached drawings.

In Specification Section 11265, in subparagraph 1.06.G.5, delete all except the first sentence, and delete the table below the subparagraph. Insert the following sentence after the first sentence: "Refer to the weir gate and water surface elevations on the Drawings."

CDM SMITH:

By: _____

Date: _____

CONTRACTOR:

By: _____

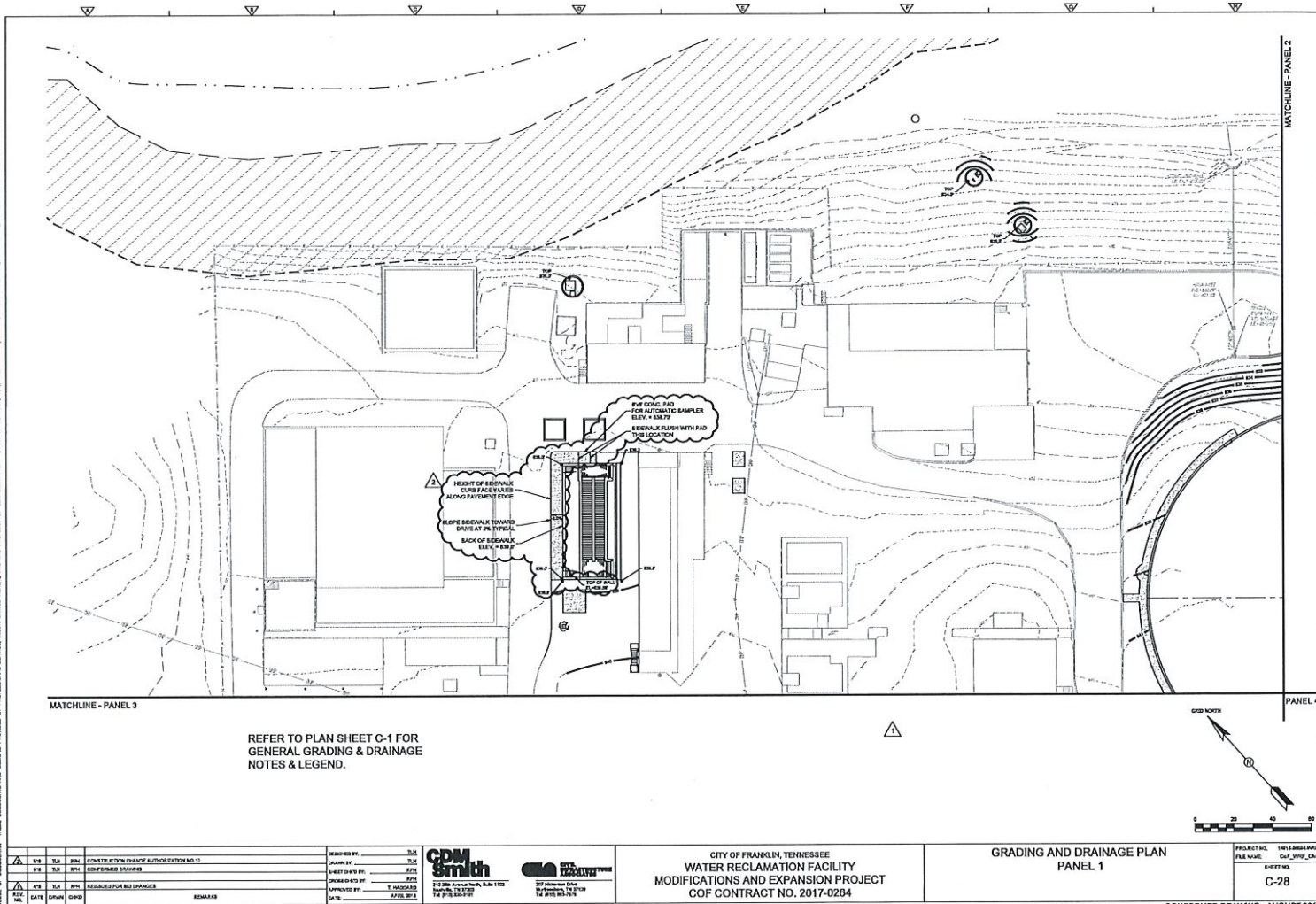
Date: _____

City of Franklin:

By: _____

Date: _____

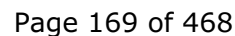
© 2018 GDM SMITH, ALL RIGHTS RESERVED. THIS DOCUMENT AND DESIGN PROVIDED BY PROFESSIONAL SERVICE, REPRESENTED HEREIN, ARE THE PROPERTY OF GDM SMITH AND ARE NOT TO BE USED, IN WHOLE OR PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF GDM SMITH.



DESIGNED BY: TJS				DRAWN BY: TJS			
CHECKED BY: KPL				APPROVED BY: T. HADGAS			
DATE: 7/26/17				DATE: 7/26/17			
REVISIONS				REVISIONS			
1. REVISED FOR NO CHANGES				1. REVISED FOR NO CHANGES			

GDM Smith		CITY OF FRANKLIN, TENNESSEE		GRADING AND DRAINAGE PLAN		PROJECT NO. 1018180000	
WATER RECLAMATION FACILITY		MODIFICATIONS AND EXPANSION PROJECT		PANEL 1		FILE NAME: GDF_WRF_C41	
COF CONTRACT NO. 2017-0264						SHEET NO. C-28	

CONFORMED DRAWING - AUGUST 2018

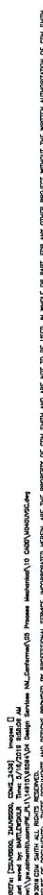




- CDM Smith**
Pittman Towers
210 25th Avenue North, Suite 1102
Northridge, TN 37023

CITY OF FRANKLIN, TENNESSEE
FRANKLIN WRF
MODIFICATIONS AND EXPANSION PROJECT
COF CONTRACT NO. 2017-0264

PROJECT NO 14415-94584-W
FILE NAME: M339UNPL.DWG
SHEET NO.
M-39



CONFORMED DRAWING - AUGUST 2018

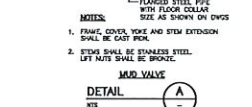
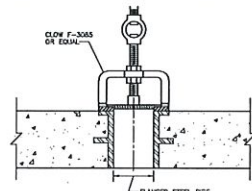
1. ALL WEIR PLATES, SCUM BATTLE PLATES, BUTT PLATES, WARDERS & SCUM BATTLE BRACKET SHALL BE FIBERGLASS REINFORCED POLYESTER PLASTIC MATERIAL UNLESS OTHERWISE NOTED. SEE SPEC. 112.6.5.5.

GATE SCHEDULE													
GATE NO.	GATE TYPE	LOCATION	MATERIAL	MOUNT	DRIVE	STEM	SEATING HEAD (FT)	UNSEATING HEAD (FT)	DIMENSIONS				REMARKS
									A	B	C	D	
50-105-1	SLIDE GATE W/FRAME	HEADWORKS - SCREEN INFLUENT	316L SST	EMBEDDED	ELECTRIC	316L SST	4.5	4.5	5'-0"	4'-6"	3'-8"	N/A	SINGLE STEM
50-105-2	SLIDE GATE W/FRAME	HEADWORKS - SCREEN INFLUENT	316L SST	EMBEDDED	ELECTRIC	316L SST	4.5	4.5	5'-0"	4'-6"	3'-8"	N/A	SINGLE STEM
50-105-3	SLIDE GATE W/FRAME	HEADWORKS - SCREEN INFLUENT	316L SST	EMBEDDED	ELECTRIC	316L SST	4.5	4.5	5'-0"	4'-6"	3'-8"	N/A	SINGLE STEM
50-105-4	SLIDE GATE W/FRAME	HEADWORKS - SCREEN INFLUENT	316L SST	EMBEDDED	ELECTRIC	316L SST	4.5	4.5	5'-0"	4'-6"	3'-8"	N/A	SINGLE STEM
50-120-1	SLIDE GATE W/FRAME	HEADWORKS - SCREEN EFFLUENT	316L SST	EMBEDDED	ELECTRIC	316L SST	4.5	4.5	5'-0"	4'-6"	3'-8"	N/A	SINGLE STEM
50-120-2	SLIDE GATE W/FRAME	HEADWORKS - SCREEN EFFLUENT	316L SST	EMBEDDED	ELECTRIC	316L SST	4.5	4.5	5'-0"	4'-6"	3'-8"	N/A	SINGLE STEM
50-120-3	SLIDE GATE W/FRAME	HEADWORKS - SCREEN EFFLUENT	316L SST	EMBEDDED	ELECTRIC	316L SST	4.5	4.5	5'-0"	4'-6"	3'-8"	N/A	SINGLE STEM
50-120-4	SLIDE GATE W/FRAME	HEADWORKS - SCREEN EFFLUENT	316L SST	EMBEDDED	ELECTRIC	316L SST	4.5	4.5	5'-0"	4'-6"	3'-8"	N/A	SINGLE STEM
50-125-1	SLIDE GATE W/FRAME	HEADWORKS - GPP INFLUENT	316L SST	EMBEDDED	ELECTRIC	316L SST	4.5	4.5	4'-0"	4'-6"	3'-8"	N/A	SINGLE STEM
50-125-2	SLIDE GATE W/FRAME	HEADWORKS - GPP INFLUENT	316L SST	EMBEDDED	ELECTRIC	316L SST	4.5	4.5	4'-0"	4'-6"	3'-8"	N/A	SINGLE STEM
50-125-3	SLIDE GATE W/FRAME	HEADWORKS - GPP INFLUENT	316L SST	EMBEDDED	ELECTRIC	316L SST	4.5	4.5	4'-0"	4'-6"	3'-8"	N/A	SINGLE STEM
50-125-4	SLIDE GATE W/FRAME	HEADWORKS - GPP INFLUENT	316L SST	EMBEDDED	ELECTRIC	316L SST	4.5	4.5	4'-0"	4'-6"	3'-8"	N/A	SINGLE STEM
50-150-1	SLIDE GATE W/FRAME	HEADWORKS - GPP EFFLUENT	316L SST	EMBEDDED	ELECTRIC	316L SST	2.5	2.5	4'-0"	3'-6"	2'-3"	N/A	SINGLE STEM
50-150-2	SLIDE GATE W/FRAME	HEADWORKS - GPP EFFLUENT	316L SST	EMBEDDED	ELECTRIC	316L SST	2.5	2.5	4'-0"	3'-6"	2'-3"	N/A	SINGLE STEM
50-150-3	SLIDE GATE W/FRAME	HEADWORKS - GPP EFFLUENT	316L SST	EMBEDDED	ELECTRIC	316L SST	2.5	2.5	4'-0"	3'-6"	2'-3"	N/A	SINGLE STEM
50-150-4	SLIDE GATE W/FRAME	HEADWORKS - GPP EFFLUENT	316L SST	EMBEDDED	ELECTRIC	316L SST	2.5	2.5	4'-0"	3'-6"	2'-3"	N/A	SINGLE STEM
WG-200-1	WEIR GATE W/FRAME	BNR BASIN NO. 3	ALUMINUM	FACE MOUNTED	MANUAL	316L SST	17.25	15.92	15'-0"	4'-0"	N/A	2'-8"	DUAL STEM
WG-200-2	WEIR GATE W/FRAME	BNR BASIN NO. 3	ALUMINUM	FACE MOUNTED	MANUAL	316L SST	17.25	15.92	15'-0"	4'-0"	N/A	2'-8"	DUAL STEM
50-810-1	SLIDE GATE W/FRAME	UV CHANNEL NO. 1	316L SST	EMBEDDED (SEE NOTE)	ELECTRIC	316L SST	8.0	8.0	3'-0"	4'-6"	4'-3 1/2"	N/A	GATES & ACTUATORS TO BE SUPPLIED BY UV DECONTAMINATION SYSTEM MANUFACTURER. SEE SPECIFICATION SECTION 112.6.5.5.
50-810-2	SLIDE GATE W/FRAME	UV CHANNEL NO. 2	316L SST	EMBEDDED (SEE NOTE)	ELECTRIC	316L SST	8.0	8.0	3'-0"	4'-6"	4'-3 1/2"	N/A	
WG-820-1	WEIR GATE W/FRAME	UV CHANNEL NO. 1	316L SST	FACE MOUNTED	ELECTRIC	316L SST	10.5	8.8	4'-0" 1/2"	N/A	3'-0" 1/2"	N/A	
WG-820-2	WEIR GATE W/FRAME	UV CHANNEL NO. 2	316L SST	FACE MOUNTED	ELECTRIC	316L SST	10.5	8.8	4'-0" 1/2"	N/A	3'-0" 1/2"	N/A	
50-300-1	SLIDE GATE W/FRAME	BNR DISTRIBUTION BOX BASIN NO. 1	316L SST	FACE MOUNTED	ELECTRIC	316L SST	3	3	8'-0"	3'-0"	1'-2"	N/A	DUAL STEM
50-300-2	SLIDE GATE W/FRAME	BNR DISTRIBUTION BOX BASIN NO. 1	316L SST	FACE MOUNTED	ELECTRIC	316L SST	3	3	8'-0"	3'-0"	1'-2"	N/A	DUAL STEM
50-300-3	SLIDE GATE W/FRAME	BNR DISTRIBUTION BOX BASIN NO. 2	316L SST	FACE MOUNTED	ELECTRIC	316L SST	3	3	8'-0"	3'-0"	1'-2"	N/A	DUAL STEM
50-300-4	SLIDE GATE W/FRAME	CLARIFIER DISTRIBUTION BOX BASIN NO. 1	316L SST	FACE MOUNTED	ELECTRIC	316L SST	3	3.5	2'-0"	3'-0"	3'-0"	N/A	SINGLE STEM
50-300-5	SLIDE GATE W/FRAME	CLARIFIER DISTRIBUTION BOX BASIN NO. 1	316L SST	FACE MOUNTED	ELECTRIC	316L SST	3	3.5	2'-0"	3'-0"	3'-0"	N/A	SINGLE STEM
50-300-6	SLIDE GATE W/FRAME	CLARIFIER DISTRIBUTION BOX BASIN NO. 3	316L SST	FACE MOUNTED	ELECTRIC	316L SST	3	3.5	2'-0"	3'-0"	3'-0"	N/A	SINGLE STEM
50-300-7	SLIDE GATE W/FRAME	CLARIFIER DISTRIBUTION BOX BASIN NO. 4	316L SST	FACE MOUNTED	ELECTRIC	316L SST	3	3.5	2'-0"	3'-0"	3'-0"	N/A	SINGLE STEM
50-300-8	SLIDE GATE W/FRAME	CLARIFIER DISTRIBUTION BOX BASIN NO. 5	316L SST	FACE MOUNTED	ELECTRIC	316L SST	3	3.5	2'-0"	3'-0"	3'-0"	N/A	SINGLE STEM
50-300-9	SLIDE GATE W/FRAME	CLARIFIER DISTRIBUTION BOX BASIN NO. 6	316L SST	FACE MOUNTED	ELECTRIC	316L SST	3	3.5	2'-0"	3'-0"	3'-0"	N/A	SINGLE STEM

* OPENING WIDTH & DEPTH

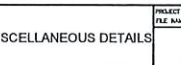
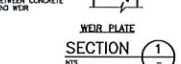
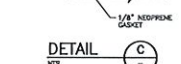
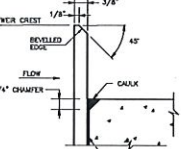
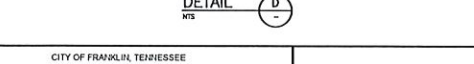
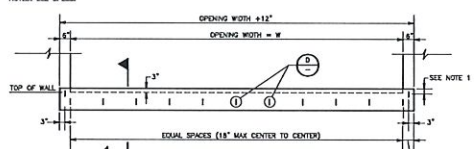
1" = STOP PLATE
1" = SLIDE GATE
1" = WEIR GATE

NOTE:
GATE TO BE SUPPLIED WITH EMBEDDED DUKES AND FACE-MOUNTED TOP AND BOTTOM STAKES.



WEIR SCHEDULE						
LOCATION	TYPE	HT	CREST EL	W	TOTAL ADJUSTMENT	DETAIL
BNR INFLUENT DISTRIBUTION BOX	WEIR PL	9"	653.00	8'	2 1/4"	B
CLARIFIER INFLUENT DISTRIBUTION BOX	WEIR PL	9"	649.00	14'	2 1/4"	B

NOTES:
1. WEIR CREST ELEVATION GIVEN IS WITH THE WEIR SET IN THE CENTER OF THE MOUNTING HOLES OR SLOTS.
2. ALL WEIR PLATES, SCUM BATTLE PLATES, BUTT PLATES, WARDERS & SCUM BATTLE BRACKET SHALL BE FIBERGLASS REINFORCED POLYESTER PLASTIC MATERIAL UNLESS OTHERWISE NOTED. SEE SPEC.



CITY OF FRANKLIN, TENNESSEE
 FRANKLIN WRF
 MODIFICATIONS AND EXPANSION PROJECT
 COF CONTRACT NO. 2017-0264

GATE & WEIR SCHEDULES & MISCELLANEOUS DETAILS
 SHEET NO.
 MD-7

CONFORMED DRAWING - AUGUST 2018



Kiewit

Kiewit Infrastructure South Co.
4800 North Point Parkway, Suite 100
Alpharetta, GA 30022

January 17, 2020

To: Attn: Mr. Dan Harris

CCA-KIEWIT-00018.00

CDM Smith, Inc.
210 25th Avenue North
Suite 1102
Nashville, TN 37203

Reference: Franklin WRF Modifications & Expansion Project
COF Contract No. 2017-0264

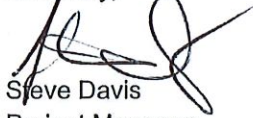
Subject: Construction Change Authorization No. 010 – New UV Disinfection System Revision

Dear Mr. Harris,

Kiewit is hereby submitting a cost proposal for **Construction Change Authorization No. 010 – New UV Disinfection System Revision** in the amount of **Fourteen Thousand Eight Hundred Thirty Three (\$14,833.00)**. This proposal includes the completion of work necessary by the reissue of **Drawings C-18, C-28, S-31, S-32, M-39, M-40, and MD-7**, as well as **Specification Section 11265**, documenting elevation and UV disinfection structure changes.

If you have any questions, please do not hesitate to contact me at (678) 794-2121.

Sincerely,



Steve Davis
Project Manager

cc: File
Michelle Hatcher



CCA NO.: 010 New UV Disinfection System Revisions

PREPARED BY: Henry A.

DESCRIPTION	QTY	UNIT	MH Per Unit	Total MH	DIRECT LABOR		INDIRECT LABOR		MATERIAL		CONST. EQUIPMENT		SUBCONTRACT		OTHER		TOTAL AMOUNT
					Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	
Additional Sidewalk at UV Structure (Reference Detail G/CD-3):																	
LABOR																	
PLACE/ROLL/FINISH STONE @ 0.50 MH/CY	2.0	CY															
Foreman	1.0	EA	0.50	1.0	\$ 61.04	\$ 61.04											\$ 61.04
Loader/Router Operator	2.0	EA	0.50	2.0	\$ 39.86	\$ 79.72											\$ 79.72
Laborer	1.0	EA	0.50	1.0	\$ 36.13	\$ 36.13											\$ 36.13
ERECT & STRIP FORMS @ 0.22 MH/SF																	
Foreman	1.0	EA	0.22	3.3	\$ 61.04	\$ 201.43											\$ 201.43
Crew (2 Carpenters)	2.0	EA	0.22	6.6	\$ 52.51	\$ 348.57											\$ 348.57
Laborer	1.0	EA	0.22	3.3	\$ 38.13	\$ 119.23											\$ 119.23
PLACE/FINISH/CURE @ 1 MH/CY																	
Foreman	1.0	EA	1.0	2.0	\$ 61.04	\$ 122.08											\$ 122.08
Concrete Finisher	2.0	EA	1.0	4.0	\$ 52.51	\$ 210.04											\$ 210.04
Laborer	1.0	EA	1.0	2.0	\$ 38.13	\$ 72.26											\$ 72.26
BROOM FINISH @ 0.05 MH/SF (Sidewalk)																	
Concrete Finisher	2.0	EA	0.05	10.5	\$ 52.51	\$ 551.36											\$ 551.36
MATERIALS																	
#57 TXDOT Stone	4.0	TN							\$ 18.00	\$ 72.00							\$ 72.00
6x6 #10 WWM	105.0	SF							\$ 0.50	\$ 52.50							\$ 52.50
Class 3000 PSI Concrete	2.0	CY							\$ 105.00	\$ 210.00							\$ 210.00
Form STS	15.0	SF							\$ 2.00	\$ 30.00							\$ 30.00
CONST. EQUIPMENT																	
CAT CS-56 Roller	1.0	HR									\$ 66.67	\$ 66.67					\$ 66.67
CAT 950M Loader	1.0	HR									\$ 91.68	\$ 91.68					\$ 91.68
SUPPLIES																	
Purchase Formwork (Small hand set forms)	15.0	SF													\$ 3.00	\$ 45.00	\$ 45.00
Additional Concrete work at UV Effluent Box (raised portions of wall 0.58')																	
LABOR																	
ERECT & STRIP FORMS @ 0.30 MH/SF	55.0	SF															
Foreman	1.0	EA	0.30	16.5	\$ 61.04	\$ 1,007.16											\$ 1,007.16
Crew (2 Carpenters)	2.0	EA	0.30	33.0	\$ 62.61	\$ 1,732.83											\$ 1,732.83
PLACE/FINISH/CURE @ 1 MH/CY																	
Foreman	1.0	EA	1.0	3.0	\$ 61.04	\$ 183.12											\$ 183.12
Concrete Finisher	2.0	EA	1.0	6.0	\$ 62.61	\$ 315.06											\$ 315.06
Laborer	1.0	EA	1.0	3.0	\$ 38.13	\$ 108.39											\$ 108.39
DRY FINISH @ 0.15 MH/SF																	
Concrete Finisher	2.0	EA	0.15	16.5	\$ 62.61	\$ 866.42											\$ 866.42
INSTALL REINFORCING STEEL @ 4 MH/TN																	
Foreman	1.0	EA	4.00	3.80	\$ 61.04	\$ 231.95											\$ 231.95
Iron Worker (Building)	2.0	EA	4.00	7.60	\$ 68.17	\$ 618.09											\$ 618.09
MATERIALS																	
Class E 4500 PSI Concrete	3.0	CY							\$ 117.00	\$ 351.00							\$ 351.00
Form STS	55.0	SF							\$ 2.00	\$ 110.00							\$ 110.00
Grout to rub walls	5.0	Bag							\$ 10.50	\$ 52.50							\$ 52.50
Additional 60" DI Wall Pipe at Influent Box Slab	0.68	LF							\$ 1,548.91	\$ 898.37							\$ 898.37



CCA NO.: 010 New UV Disinfection System Revisions

PREPARED BY: Henry A.

DESCRIPTION	QTY	UNIT	MH Per Unit	Total MH	DIRECT LABOR		INDIRECT LABOR		MATERIAL		CONST. EQUIPMENT		SUBCONTRACT		OTHER		TOTAL AMOUNT
					Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	
Reinforcing Steel (Saber Steel)	0.95	TN							\$ 1,005.75	\$ 955.48							\$ 955.48
SUPPLIES																	
Formwork Rental (Large gang forms-Walls)	55.0	SF													\$ 10.00	\$ 550.00	\$ 550.00
Additional Weir Gate w/Frame Width & Height (WG-520-1&2):																	
LABOR																	
INSTALL GATES @ 3.0 MH/LF	3.0	LF															
Foreman	1.0	EA	3.0	9.0	\$ 61.04	\$ 549.36											\$ 549.36
Crew (3 Midwrights)	3.0	EA	3.0	27.0	\$ 52.51	\$ 1,417.77											\$ 1,417.77
MATERIALS																	
Anchor Bolts	1.0	LS							\$ 127.30	\$ 127.30							\$ 127.30
Grout	1.0	Bag							\$ 10.60	\$ 10.60							\$ 10.60
Seal Ends PVC Sample and Drain (DWG M-40; Note 9):																	
LABOR																	
INSTALL PVC CAPS @ 0.25 MH/EA	4.0	EA															
Pipefitter	2.0	EA	0.25	2.0	\$ 68.17	\$ 136.34											\$ 136.34
MATERIALS																	
3" PVC SCH 80 Cap	4.0	EA							\$ 6.97	\$ 27.88							\$ 27.88
Equipment Pad Reduced (7'x7' - 6'x6'):																	
LABOR																	
ERECT & STRIP FORMS @ 0.22 MH/SF	(2.0)	SF															
Foreman	1.0	EA	0.22	(0.4)	\$ 61.04	\$ (28.66)											\$ (28.66)
Crew (2 Carpenters)	2.0	EA	0.22	(0.9)	\$ 52.51	\$ (48.21)											\$ (48.21)
PLACE/FINISH/CURE @ 1 MH/CY	(0.25)	CY															
Foreman	1.0	EA	1.0	(0.3)	\$ 61.04	\$ (15.26)											\$ (15.26)
Concrete Finisher	2.0	EA	1.0	(0.5)	\$ 62.61	\$ (28.26)											\$ (28.26)
Laborer	1.0	EA	1.0	(0.3)	\$ 36.13	\$ (9.03)											\$ (9.03)
MATERIALS																	
Class E 4500 PSI Concrete	(0.25)	CY							\$ 117.00	\$ (29.25)							\$ (29.25)
Form STS	(2.0)	SF							\$ 2.00	\$ (4.00)							\$ (4.00)
<i>*Construction Equipment Ownership & Operating Costs are based on Blue Book FHWA Rates.</i>																	
OTHER																	
STS - small tools, consumables, safety equip, (5% of direct labor, plus 9.75% sales tax. Formula = Total Direct Labor Subtotal * .05 * 1.0925)	161	MHR														\$ 437.14	\$ 437.14
TAX: (9.75% of Material, Equipment, Other)												\$ 16.44				\$ 100.83	\$ 116.07
BOND (2% of total)																	\$ -
SUBTOTALS (NET INCREASE IN COST)				161		\$ 8,742.73		\$ -		\$ 2,864.26		\$ 158.35		\$ -		\$ 1,032.14	\$ 12,913.54
MARKUP % (NET INCREASE IN COST)						15.00%		15.00%		15.00%		15.00%		5.00%		15.00%	\$ 1,919.82
SUBTOTALS WITH MARKUPS APPLIED																	\$ 14,833.16
BOND																	

Kiewit Infrastructure South Co.
4800 North Point Parkway, Suite 100
Alpharetta, GA 30022



DATE: 12/18/19

CCA NO.: 010 New UV Disinfection System Revisions

PREPARED BY: Henry A.

DESCRIPTION	QTY	UNIT	MH Per Unit	Total MH	DIRECT LABOR		INDIRECT LABOR		MATERIAL		CONST. EQUIPMENT		SUBCONTRACT		OTHER		TOTAL AMOUNT
					Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	
TOTAL																	\$14,833.00

Attachment A Bedding

Schedule of Values

Item	Description	Approx. Quantity	Unit of Measure	Unit Price	Total
1	TDOT 57 Stone		TN	\$ 18.00	
2	TDOT Grade D		TN	\$ 12.50	
3	Class A3 Rip Rap		TN	\$ 21.00	
4	Surge Stone		TN	\$ 13.00	
5	Class A1 Rip Rap		TN	\$ 21.00	
6	2" to 3" Stone		TN	\$ 17.75	
7	TDOT #4 Stone		TN	\$ 17.75	
	Approximate Contract Total (without Taxes)				
	Bond (0%)				\$ -

1.0 General Description of the "Work": Provide all supervision, labor, material tools and equipment to furnish and deliver aggregates of the type, at the unit prices, and up to the qty shown on the Schedule of Values.

- .1 FURNISH SECTIONS: 02230 - Granular Materials complete per plans, specifications, and addenda [Addenda 1-6];

Also includes in addition to the above, any other applicable and/or related specification sections, including but not limited to: Division 00 and Division 1 General Requirements

2.0 Including But Not Limited to:

- .1 The Contract price(s) are firm through 12/31/19.
.2 Seller will provide _0_% of the Seller's total contract dollar value in DBE participation.
.3 Material is not exempt from sales or use taxes.
.4 **Industrial Machinery Sales and Use Tax Exemption Certificate – Attachment C-3 (per Specification Section 00800 Supplementary Conditions Article SC-6.10A).** Sales and Use Tax Exemption Certificate will be provided for the Project by the Contractor.
.5 All Deliveries must include a material ticket recognizing the material and quantity delivered. Delivery Tickets to be signed by Contractor for validation of receipt and acceptance to pay for actual quantities delivered.

3.0 Clarifications:

- .1 Effective 1/1/20 Seller will institute a 3% increase per ton on all remaining aggregate through 12/31/20. An additional 3% increase will be effective per ton starting 1/1/21 through 12/31/21.
.2 Delivered prices are based on full loads (20 ton or more) a minimum haul may be applied for smaller loads.

ATTACHMENT A Concrete

Scope of Work

Item	Description	Quantity	Unit of Measure	Unit Price	Total
1	2500 PSI Concrete - 1/2" chip		CY	\$ 97.00	
2	Color Utility Red 1/2 Dosage		CY	\$ 28.00	
3	3000 PSI - 1/2" Chip (Sidewalk C&G)		CY	\$ 101.00	
	Escalation date 04-01-2020 \$4.00/CY				
	Contract Total (without Taxes)				

1.0 General Description of the "Work": The s

- .1 FURNISH SECTIONS: Section 02515 – Concrete Sidewalk, Section 03300 – Cast-In-Place Concrete, 16900 – Ductbank Encasement complete per plans, specifications, and Addenda [Addenda 1-6]

Also included in additional to the above, any other applicable and/or related specification sections. Including but not limited to: Division 00, Division 1 General Requirements.

2.0 Including But Not Limited to:

- .1 The Unit Prices in the Schedule of Values are firm for the durations of the Project including escalation.
.2 Seller will provide 0% of the Seller's total contract dollar value in DBE participation.
.3 Material is not exempt from sales or use taxes.
.4 Seller shall provide the furnishing concrete for duct bank encasement, sidewalk and curb details on Contract Drawing E-5 through E-15; Contract Drawing C-23 and CD-3.

3.0 Schedule of Work:

- .1 All Material and equipment delivery schedules shall be coordinated with the Contractor prior to shipment and Seller shall provide a minimum of 72 hours advance notice of all deliveries.
.2 Concrete for Duct bank shall be available for delivery to site as requested by Contractor.
.3 Concrete for Sidewalk shall be available for delivery to site as requested by Contractor.
.4 Concrete for Curbs shall be available for delivery to site as requested by Contractor.

4.0 Unit Prices, Options and Allowances:

	Description	Qty	UoM	Price	Price Validity
.1	Add MRWR, increase slump 4" to 6"	1	CY	\$3.00	
.2	Add MRWR, increase slump 4" to 8"	1	CY	\$5.00	
.3	Calcium Chloride, LQD, 1%	1	CY	\$3.00	
.4	Non-Chloride Accelerator, 1%	1	CY	\$4.50	
.5	Superplasticizer dose	1	CY	\$6.00	
.6	Hot/Chilled Water	1	CY	\$3.00	

ATTACHMENT A Concrete

Scope of Work

Item	Description	Quantity	Unit of Measure	Unit Price	Total
1	Class A 2500 PSI	0.00	CY	\$ 104.00	\$ -
2	Class E1 4500 PSI		CY	\$ 112.00	
3	Class E2 4500 PSI		CY	\$ 112.00	
4	Class E3 4500 PSI		CY	\$ 112.00	
5	Class F (10) 4500 PSI	0.00	CY	\$ 113.00	\$ -
6	Excavatable Flow Fill 1 (100 psi)	0.00	CY	\$ 101.00	\$ -
7	Excavatable Flow Fill 2 (75 psi)	0.00	CY	\$ 103.00	\$ -
8	Excavatable Flow Fill 3 (50psi)	0.00	CY	\$ 98.00	\$ -
9	4000 PSI #7 Limestone	0.00	CY	\$ 130.00	\$ -
10	4000 PSI 2" Line Pump Mix with Fiber @ 1.5lbs per cy	0.00	CY	\$ 126.00	\$ -
11	4000 PSI Fine Grout Mix (4" Slump)	0.00	CY	\$ 142.00	\$ -
12	Add for Poly Fiber Reinforcement @ 1.5lbs per cy	0.00	CY	\$ 6.00	\$ -
13	Add for SRA035 Shrinkage Admixture @ 1 gal per cy	0.00	CY	\$ 35.00	\$ -
14	To Insurance slump up to 6", add per cy MRWR	0.00	CY	\$ 3.00	\$ -
15	To insurance slump up to 8", add per cy HRWR	0.00	CY	\$ 5.00	\$ -
Contract Total (without Taxes)					

1.0 General Description of the "Work": The s

- .1 FURNISH SECTIONS: Section 03300 – Cast-In-Place Concret per plans, specifications, and Addenda [Addenda 1-6]

Also included in additional to the above, any other applicable and/or related specification sections. Including but not limited to: Division 00, Division 1 General Requirements.

2.0 Including But Not Limited to:

- .1 The Unit Prices in the Schedule of Valves are firm for the durations of the Project including escalation.
.2 Seller will provide 0% of the Seller's total contract dollar value in DBE participation.
.3 Material is not exempt from sales or use taxes.

3.0 Schedule of Work:

- .1 All Material and equipment delivery schedules shall be coordinated with the Contractor prior to shipment and Seller shall provide a minimum of 72 hours advance notice of all deliveries.
- .2 Concrete shall be available for delivery to site as requested by Contractor.

4.0 Unit Prices, Options and Allowances:

	Description	Qty	UoM	Price	Price Validity
.1	Calcium Chloride, Liquid, 1%, per cy	1	CY	\$2.00	
.2	Non-Chloride Accelerator, 1% per cy	1	CY	\$5.50	
.3	Superplasticizer.dose, per cy	1	CY	\$5.00 Used	
.4	Hot/Chilled Mixes, cost per yard	1	CY	\$2.00	
.5	All Cement Mixes, Additional cost per yard	1	CY	\$6.00	
.6	Set Retarding Admixture, per cy	1	CY	\$2.00	
.7	Delivery Charge – applies to loads of less than six (6) cy	1	CY	\$75.00	

5.0 Deliverables: In addition to any other provisions of this Contract, it is required that Seller make timely submission of the following to Contractor:

- .1 Furnish shop drawings and submittals for approval within 28 days of the Effective Date of Contract in strict accordance with specification section 01300. Material shall not be ordered or shipped until the shop drawings have been approved. No material shall be ordered or shop work started if shop drawings are marked "APPROVED AS NOTED - CONFIRM", "APPROVED AS NOTED - RESUBMIT" or "NOT APPROVED".

Attachment A-1 DIP Pipe & Fittings Core & Main Contract

PROJECT NAME: FRANKLIN WRF MODIFICATIONS & EXPANSION PROJECT

ROW	QTY	SIZE	DESCRIPTION	UNIT	TOTAL	EXT WEIGHT	AREA
3820		48"X05'-06"	DIP SPOOL CL53 FLG X FLG, T1/CL W/O SEAL COAT	\$ 11,939.35		3,409.00	DI INTERIOR
3830		48"X05'-00"	DIP SPOOL CL53 FLG X FLG, T1/CL W/O SEAL COAT	\$ 11,725.43		3,216.00	DI INTERIOR
3840		48"X02'-06"	DIP SPOOL CL53 FLG X FLG, T1/CL W/O SEAL COAT	\$ 10,655.87		2,251.00	DI INTERIOR
3850		48"	DI C110 FLG 90 BEND, T1/CL W/O SEAL COAT	\$ 25,733.82		4,095.00	DI INTERIOR
3860		48X36"	DI C110 FLG BASE 90 BEND, T1/CL W/O SEAL COAT	\$ 21,433.48		4,500.00	DI INTERIOR
3870		48X30"	DI C110 FLG CONCENTRIC REDUCER, T1/CL W/O SEAL COAT	\$ 14,477.98		2,625.00	DI INTERIOR
3880		48X30"	DI C110 FLG TEE, T1/CL W/O SEAL COAT	\$ 26,004.38		17,820.00	DI INTERIOR
3900		30"X02'-00"	DIP SPOOL CL53 FLG X FLG, T1/CL W/O SEAL COAT	\$ 3,804.67		0.00	DI INTERIOR
3910		30"X01'-06"	DIP SPOOL CL53 FLG X FLG, T1/CL W/O SEAL COAT	\$ 3,722.72		0.00	DI INTERIOR
3920		30"X03'-06"	DIP SPOOL CL53 FLG X FLG, T1/CL W/O SEAL COAT	\$ 4,050.54		1,092.50	DI INTERIOR
3930		30"	DI C110 FLG 90 BEND, T1/CL W/O SEAL COAT	\$ 7,718.54		7,150.00	DI INTERIOR
3940		30"	DI C110 FLG TEE, T1/CL W/O SEAL COAT	\$ 13,926.74		2,150.00	DI INTERIOR
3950		30"	DI C110 BLD FLG, T1/CL W/O SEAL COAT	\$ 3,208.54		500.00	DI INTERIOR
3960		30"X07'-06"	DIP SPOOL CL53 FLG X PE, T1/CL W/O SEAL COAT	\$ 2,980.38		7,877.50	DI INTERIOR
4010							
4020			ADD QUICK CONNECT TO EX 4" DRAIN LINE (M-35)				
4080							
4090			ITEM 17 - NEW UV STRUCTURE				
4100			NEW UV INF & EFF DIVERSION BOXES (M-38)				
4110		60"X03'-00"	DI WALL PIPE PE X WC X PE, CL W/O SEAL COAT	\$ 5,656.82		3,100.00	DI INTERIOR
4120		60"X03'-00"	DI WALL PIPE FLG (TFS) X WC X PE, T1/CL W/O SEAL COAT	\$ 28,542.67		3,400.00	DI INTERIOR
4130		60"	DI C110 BLD FLG, T1/CL W/O SEAL COAT	\$ 24,822.02		2,863.00	DI INTERIOR
4150							
4160			3" PVC SCH80 PIPE FOR EFFLUENT SAMPLER (M-40)				@ \$1,548.91 LF
4220							
4230			60" FEF-DI (M-31,38,40)				
4240	1	60"X04'-00"	DI WALL PIPE PE X WC X PE, T1/CL W/O SEAL COAT	\$ 6,195.64	\$ 6,195.64	2,178.00	DI INTERIOR
4250		60"	DI HP LOK 90 BEND, CL W/O SEAL COAT	\$ 33,234.95		8,205.00	DI UNDERGROUND
4260		60"X12'-0"	DIP SPOOL PC 300 HP LOK PE X HP LOK PE, CL W/O SEAL COAT	\$ 10,192.94		5,136.00	DI UNDERGROUND
4270							
4280			60" UV-EFF-DI (M-31,38,40)				
4290		60"X02'-00"	DI WALL PIPE HP LOK BELL X WC X PE, T1/CL W/O SEAL COAT	\$ 5,476.68		2,005.00	DI INTERIOR
4300							
4310			8" DRAINS FROM MUD VALVES (M-39)				
4340		08"X03'-00"	DI WALL PIPE FLG (TFS) X WC X PE, T1/P-401	\$ 373.70		924.00	DI INTERIOR
4350		08"	DI C153 MJ TEE, P-401	\$ 404.05		348.32	DI UNDERGROUND
4360		08"	DI C153 MJ CAP, P-401	\$ 202.03		60.00	DI UNDERGROUND
4370		08"	DI C153 MJ 90 BEND, P-401	\$ 313.22		117.60	DI UNDERGROUND
4380		08"	DI C153 MJ WYE, P-401	\$ 623.70		108.91	DI UNDERGROUND
4390		08"	DI C153 MJ 45 BEND, P-401	\$ 273.72		188.96	DI UNDERGROUND
4400		08"	EBAA 1100 MEGALUG ACC SET	\$ 52.12		609.00	DI UNDERGROUND
4410		08"	DI TJ PC 350, P-401	\$ 23.14		1,760.00	DI UNDERGROUND
4420							

Reinforcing Steel

SABER STEEL LLC

(Native American Owned; SDVOSB; ARDOT, ALDOT, KYDOT, MDOT, MODOT & TDOT DBE Certified)
A REBAR FABRICATION COMPANY

TO Bidding Contractors

DATE: 12/16/2019

ADDRESS

PROJECT: Franklin W.R.F.

CITY

LOCATION: Franklin, TN

THESE PRICES DO NOT INCLUDE ANY APPLICABLE TAX

Excludes: Weldable Bars, Galvanized Bar, Bar Supports and Accessories;

Have seen No Addendum; Drawings Dated 11/7/19

Solids Processing Sump

0.90 Tons Reinforcing Steel \$907.49

UV Structure Changes

0.95 Tons Reinforcing Steel \$955.46

TOTAL \$1,862.95

Nathan Cortez
SABER STEEL LLC

BY Nathan Cortez

Email: Keiven@sabersteel-llc.com
ALT EMAIL: Nathan@sabersteel-llc.com

ACCESSORY PRICING AVAILABLE UPON REQUEST
THIS QUOTATION SUBJECT TO

ACCEPTANCE WITHIN 10 DAYS.

3638 Fite Road, Millington, TN 38053

P: (901) 334-4400

F: (901) 334-4077

Anchor Bolts

Steel L Hook Anchor Bolts



Multiple product options available

Brands

GRAINGER APPROVED

Anchor Dia.	Anchor Length	Thread Length	Anchor Hook Length	Item #	Price
Hot Dipped Galvanized Fastener Finish					
3/8"	6"	1-3/4"	1"	21Y486	\$58.28 / pkg. of 50
3/8"	8"	1-3/4"	1"	21Y487	\$65.44 / pkg. of 50
1/2"	6"	1-3/4"	1-1/2"	21Y488	\$116.05 / pkg. of 50
1/2"	8"	1-3/4"	1-1/2"	21Y463	\$127.30 / pkg. of 50
1/2"	10"	1-3/4"	1-1/2"	21Y464	\$151.33 / pkg. of 50
1/2"	12"	1-3/4"	1-1/2"	21Y465	\$171.36 / pkg. of 50
1/2"	14"	2"	1-1/2"	21Y466	\$200.43 / pkg. of 50
1/2"	16"	2"	1-1/2"	21Y467	\$214.20 / pkg. of 50
1/2"	18"	2"	1-1/2"	21Y468	\$246.84 / pkg. of 50

PVC Pipe & Fittings Mech Pipe & Supply Contract

Attachment A-1

88	PVC S80 12" PIPE SOC		LF	\$	19.76	\$	-
89	PVC S80 2" ADAPT SOC x FIPT		EA	\$	5.75	\$	-
90	PVC S80 2" ADAPT SOC x MIPT		EA	\$	4.39	\$	-
91	PVC S80 2" COUP SOC		EA	\$	1.99	\$	-
92	PVC S80 2" ELL 45 SOC		EA	\$	4.39	\$	-
93	PVC S80 2" ELL 90 SOC		EA	\$	1.60	\$	-
94	PVC S80 2" FLNG SOC		EA	\$	4.18	\$	-
95	PVC S80 2" FLNG VAN STONE		EA	\$	4.18	\$	-
96	PVC S80 2" PIPE SOC		LF	\$	1.12	\$	-
97	PVC S80 2" TEE SOC		EA	\$	5.69	\$	-
98	PVC S80 2" UNION SOC FKM		EA	\$	7.25	\$	-
99	PVC S80 3" COUP SOC		EA	\$	5.61	\$	-
100	PVC S80 3" ELL 45 SOC		EA	\$	9.73	\$	-
101	PVC S80 3" ELL 90 SOC		EA	\$	4.20	\$	-
102	PVC S80 3" FLNG SOC		EA	\$	6.97	\$	-
103	PVC S80 3" FLNG VAN STONE		EA	\$	6.97	\$	-
104	PVC S80 3" PIPE SOC		LF	\$	2.34	\$	-
105	PVC S80 3" TEE SOC		EA	\$	7.72	\$	-
106	PVC S80 3" UNION SOC FKM		EA	\$	13.50	\$	-
107	PVC S80 3"x 1 1/2" RED BUSH (SPIG x SOC)		EA	\$	6.27	\$	-
108	PVC S80 3"x 1" RED BUSH (SPIG x SOC)		EA	\$	6.27	\$	-
109	PVC S80 3"x 2" RED COUP (SOC x SOC)		EA	\$	8.51	\$	-
110	PVC S80 3"x 2" RED TEE SOC		EA	\$	7.04	\$	-
111	PVC S80 4" COUP SOC		EA	\$	7.03	\$	-
112	PVC S80 4" ELL 90 SOC		EA	\$	6.39	\$	-
113	PVC S80 4" FLNG SOC		EA	\$	8.81	\$	-
114	PVC S80 4" FLNG VAN STONE		EA	\$	8.81	\$	-
115	PVC S80 4" PIPE SOC		LF	\$	3.36	\$	-
116	PVC S80 6" COUP SOC		EA	\$	15.13	\$	-
		Total				\$0.00	

Used for 3"
Cap

Approximate Total	\$0.00
-------------------	--------

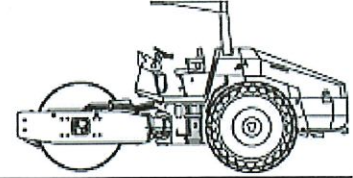
Rental Rate Blue Book®

December 16, 2019

Caterpillar CS-56 (disc. 2012)

Single Drum Vibratory Compactors

Size Class:
8.0 - 11.9 MTons
Weight:
25164 MT


Configuration for CS-56 (disc. 2012)

Drum Type **Smooth** Drum Width **84.0 in**
Net Horsepower **143.0 hp** Power Mode **Diesel**

Blue Book Rates

** FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs	FHWA Rate**
	Monthly	Weekly	Daily	Hourly	Hourly	Hourly
Published Rates	USD \$5,035.00	USD \$1,410.00	USD \$355.00	USD \$53.00	USD \$38.06	USD \$66.67
Adjustments						
Region (100%)	-	-	-	-		
Model Year (2012: 100%)	-	-	-	-		
Adjusted Hourly Ownership Cost (100%)	-	-	-	-		
Hourly Operating Cost (100%)						
Total:	USD \$5,035.00	USD \$1,410.00	USD \$355.00	USD \$53.00	USD \$38.06	USD \$66.67

Non-Active Use Rates

Hourly

Standby Rate	USD \$20.88
Idling Rate	USD \$40.02

Rate Element Allocation

Element	Percentage	Value
Depreciation (ownership)	49%	USD \$2,467.15/mo
Overhaul (ownership)	27%	USD \$1,359.45/mo
CFC (ownership)	13%	USD \$654.55/mo
Indirect (ownership)	11%	USD \$553.85/mo
Fuel (operating) @ USD 3.07	30%	USD \$11.41/hr

Revised Date: 2nd half 2019

These are the most accurate rates for the selected Revision Date(s). However, due to more frequent online updates, these rates may not match Rental Rate Blue Book Print. Visit the Cost Recovery Product Guide on our Help page for more information.

The equipment represented in this report has been exclusively prepared for HENRY ALVARADO
(Henry.Alvarado@kiewit.com)

Rental Rate Blue Book®

December 16, 2019

Caterpillar 950M

4-Wd Articulated Wheel Loaders

Size Class:
225 - 249 HP
Weight:
HP


Configuration for 950M

Bucket Capacity - Heaped
Operator Protection

12.0 cu yd
ROPS/FOPS

Net Horsepower
Power Mode

230.0 hp
Diesel

Blue Book Rates

** FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs	FHWA Rate**
	Monthly	Weekly	Daily	Hourly	Hourly	Hourly
Published Rates	USD \$8,325.00	USD \$2,330.00	USD \$585.00	USD \$88.00	USD \$44.38	USD \$91.68
Adjustments						
Region (100%)	-	-	-	-		
Model Year (2019: 100%)	-	-	-	-		
Adjusted Hourly Ownership Cost (100%)	-	-	-	-		
Hourly Operating Cost (100%)					-	
Total:	USD \$8,325.00	USD \$2,330.00	USD \$585.00	USD \$88.00	USD \$44.38	USD \$91.68

Non-Active Use Rates

Hourly

Standby Rate

USD \$29.80

Idling Rate

USD \$70.04

Rate Element Allocation

Element	Percentage	Value
Depreciation (ownership)	41%	USD \$3,413.25/mo
Overhaul (ownership)	37%	USD \$3,080.25/mo
CFC (ownership)	12%	USD \$999.00/mo
Indirect (ownership)	10%	USD \$832.50/mo
Fuel (operating) @ USD 3.07	51%	USD \$22.74/hr

Revised Date: 2nd half 2019

These are the most accurate rates for the selected Revision Date(s). However, due to more frequent online updates, these rates may not match Rental Rate Blue Book Print. Visit the Cost Recovery Product Guide on our Help page for more information.

The equipment represented in this report has been exclusively prepared for HENRY ALVARADO (Henry.Alvarado@kiewit.com)

Change Proposal Preparation Checklist

Project Name: _____ Orig. \$ Cont. Amt. _____ Co. / Proj. #: _____

Change Order / Claim Identification (Name/No) / \$ Amt. _____

Lead Preparer Initials	Mgr Review Initials	Intended Submittal Date: _____ Public/Private: _____
_____	_____	1. All major items have adequate supporting schedules and documentation.
_____	_____	2. G&A rate is correct; no other duplicative overhead is included in PCO.
_____	_____	3. Equipment rates used in PCO are in accordance with contract specifications. • Operating expenses are either separately stated or part of the rate. • Stand by rates used per contract or other acceptable method. • 3rd party equipment is billed in accordance with contract specifications.
_____	_____	4. Time Related Overhead calculations are per contract, and are properly supported by the cost report. Items in the TRO are time related expenses, and not lump sum type items. If applicable, contingency items in the TRO are separately identified for transparency.
_____	_____	5. Worksheets were reviewed for accurate formulas; all spreadsheets total and cross check properly.
_____	_____	6. All markups used are in accordance with contract specs.
_____	_____	7. Labor add-on rates were tested and reconciled to union agreements or other supporting documentation; taxes and insurance were verified for accuracy.
_____	_____	8. To the extent required by law or the contract with the owner, contingency items are separately identified and transparent to reader.
_____	_____	9. Subcontractor change proposal has been reviewed and is reasonably supported. (Complete Appendix 3 if Subcontract costs are include in the proposal.)
_____	_____	10. Previously submitted costs are not included in this request.

I have reviewed the Change Proposal and believe it is in compliance with the contract, and specifically the checklist above. To the extent required by Corporate Policy, this will be submitted to Internal Audit for review.

Lead Preparer	Name	Date
0 - \$100,000	Approved by Project Manager	Date
\$100,001 - \$500,000	Approved by Sponsor	Date
\$500,001 - \$2,000,000	Approved by Area Manager	Date
	Approved by District Contract Administration Mgr	Date
\$2,000,000+	Approved by District Manager	Date



Kiewit

Kiewit Infrastructure South Co.
4800 North Point Parkway
Suite 100
Alpharetta, GA 30022

January 17, 2020

To: Attn: Mr. Dan Harris

CP-KIEWIT-00008.00

CDM Smith, Inc.
210 25th Avenue North
Suite 1102
Nashville, TN 37203

Reference: Franklin WRF Modifications & Expansion Project
COF Contract No. 2017-0264

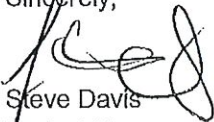
Subject: RFI No. 116 - Power and Controls to MOV-7040-1,2,3 - Lower Level Solids Processing Building

Dear Mr. Harris,

Kiewit is hereby submitting a cost proposal for RFI No. 116 - Power and Controls to MOV-7040-1,2,3 - Lower Level Solids Processing Building in the amount of **Five Thousand Four Hundred Sixteen (5,416)**. The proposal includes adding a conduit and wire in accordance with RFI No. 116 and the proposal dated October 11, 2019 from Wayne J. Griffin Electric, Inc.

If you have any questions, please do not hesitate to contact me at (678) 794-2121.

Sincerely,



Steve Davis
Project Manager

cc: File
Michelle Hatcher
Brian Goodwin

Kiewit Infrastructure South Co.
4800 North Point Parkway, Suite 100
Alpharetta, GA 30022



DATE: January 17, 2020

RFI No. 116: Power and Controls to MOV-7040-1,2,3 - Lower Level SPB

PREPARED BY: Steve Davis

DESCRIPTION	QTY	UNIT	MH Per Unit	Total MH	DIRECT LABOR		INDIRECT LABOR		MATERIAL		EQUIPMENT		SUBCONTRACT		OTHER		TOTAL AMOUNT
					Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	
Power and Controls to MOV-7040-1,2,3 - Lower Level SPB																	
Power and Controls to MOV-7040-1,2,3 - Lower Level SPB	1.00	LS											5,158.30	5,158.30			5,158.30
OTHER																	
STS - small tools, consumables, safety equip. (5% of direct labor, plus 9.75% sales tax) Formula = Total Direct Labor Subtotal * .05 * 1.0975																	
TAX: (9.75% of Material, Equipment, Other)																	
BOND (2% of total)																	
SUBTOTALS													5,158.30				5,158.30
MARKUP %						0.10		0.10		0.10		0.10				0.10	267.92
SUBTOTALS WITH MARKUPS APPLIED													5,416.22				5,416.22
BOND																	
TOTAL																	\$ 5,416.00



**WAYNE J.
GRIFFIN ELECTRIC
INC.**

October 11, 2019

VIA EMAIL ONLY: Steven.Davis1@kiewit.com

Mr. Steven Davis, Project Manager
Kiewit
135 Claude Yates Drive
Franklin, TN 37064

RE: Job #6198 - Franklin WRF Mods and Exp., Franklin, TN
Proposal #15

Dear Mr. Davis:

Wayne J. Griffin Electric, Inc. ("WJGEI") proposes to modify our contract to perform the following lump sum revisions to our work per our enclosed detailed backup:

DESCRIPTION OF WORK:

This proposal is to add Power and controls to the MOV's in the lower level of the Solids Process Building, as detailed in RFI 116.

Material	\$	1,086.47
Labor		3,376.25
Overhead & Profit		669.41
Subtotal	\$	5,132.13
Bond		26.17
Total	\$	5,158.30

This is a lump sum forward looking estimate of the above-noted change to our scope of work. This estimate represents a price we are willing to accept to assume the cost risk of this change to our ongoing work given the information provided to us. The labor and material prices contained in this proposal are based upon vendor/subcontractor quotes (if noted) and/or electrical industry pricing guides such as NECA, Trade Service, or R.S. Means, which guides are widely used and accepted in the construction industry to facilitate timely and consistent change order pricing. This estimate is offered for your review, approval and acceptance.

Corporate Headquarters:

116 Hopping Brook Road
Holliston, MA 01746
Phone: (508) 429-8830
Fax: (508) 429-7825

Regional Offices:

296 Cahaba Valley Parkway
Pelham, AL 35124
Phone: (205) 733-8848
Fax: (205) 733-8107

1950 Evergreen Boulevard
Suite 300
Duluth, GA 30096
Phone: (678) 417-9377
Fax: (678) 417-9373

2310 Presidential Drive
Suite 101
Durham, NC 27703
Phone: (919) 627-9724
Fax: (919) 627-9727

9801-C Southern Pine Boulevard
Charlotte, NC 28273

Phone: (704) 522-3851
Fax: (704) 522-3856

Mr. Steven Davis
October 11, 2019
Page 2

The value included in this proposal does not include any amounts for extended contract duration, overtime, changes in the sequence of work, acceleration, disruptions, interference and/or impacts, and the right is expressly reserved to recover any and all of these related items prior to any final settlement of this contract. The working relationship between your company and ours shall be in accordance with our mutually agreed to contract form.

Wayne J. Griffin Electric, Inc. reserves the right to void this proposal after thirty (30) days from the date above.

If you have any questions regarding the above, please do not hesitate to contact me at (205) 733-8848 ext. 6175 or troberson@wjgei.com.

Very truly yours,

WAYNE J. GRIFFIN ELECTRIC, INC.



Timothy R. Roberson
Project Manager

TRR/jmr

ACKNOWLEDGMENT: The contract modifications stated for the above proposal are acceptable for the work to be performed. The value of the work completed to the date of the next requisition may be billed on that requisition.

Date: _____ Authorized Signature: _____

cc: Corbin Coker, Engineer, Kiewit, Corbin.Coker@Kiewit.com
Calvin Mize, Regional Manager, Wayne J. Griffin Electric, Inc.
Sarah Moore, Project Engineer, Wayne J. Griffin Electric, Inc.



116 Hopping Brook Road, Holliston, MA 01746
(508) 429-8830 FAX (508) 429-9251

CCN#: P-0015, RFI-116 MOV-7040-1, 2 and 3 Power
Date: 10/9/2019
Project Name: Franklin WRF Mods and Exp
Project Number: 06198-00-18
Page Number: 1

Work Description

This proposal is to add Power and controls to the MOV's in the lower level of the Solids Process Building, as detailed in RFI 116.

Itemized Breakdown

Description	Qty	Net Price	UM	Materials (\$)	Labor	Total Hours
As Builts	0.00	0.0000	HRS	0.000	0.000	0.990
Cleanup	0.00	0.0000	HRS	0.000	0.000	0.990
Tools	0.00	0.0000	HRS	0.000	0.000	1.180
Field Safety/JHA	0.00	0.0000	HRS	0.000	0.000	0.990
Supervision	0.00	0.0000	HRS	0.000	0.000	1.970
Project Controls	0.00	0.0000	HRS	0.000	0.000	1.970
3/4" THREADED PLUG	1.00	3.6200		3.620	0.300	0.300
3/4" PVC SCHEDULE 40	400.00	0.4433	FT	177.320	0.045	18.000
3/4" ALUMINUM CONDUIT	10.00	2.7370	FT	27.370	0.055	0.550
3/4" PVC COATED ALUM RIGID CONDUIT	10.00	10.2360	FT	102.360	0.080	0.800
3/4" PVC 45D ELBOW SCHEDULE 40	3.00	1.8767	EA	5.630	0.220	0.660
3/4" ALUMINUM 90D ELBOW	12.00	30.0600	EA	360.720	0.300	3.600
3/4" PVC COUPLING SCHEDULE 40	1.00	0.5100	EA	0.510	0.160	0.160
3/4" PVC FEMALE ADAPTER	36.00	0.9808	EA	35.310	0.160	5.760
3/4" ALUM COUPLING	6.00	10.6500	EA	63.900	0.300	1.800
3/4" LIQUID TIGHT STEEL STRAIGHT CONNECTOR	4.00	7.3875	EA	29.550	0.180	0.720
3/4" LIQUID TIGHT CONDUIT UL	6.00	2.8983	FT	17.390	0.075	0.450
#12 XHHW COPPER WIRE	948.00	0.2772	FT	262.790	0.007	6.636
Totals				1,086.47		47.53
Tax				0.00		
Materials with				1,086.47		

Summary

Itemized Breakdown Total		1,086.47
Elect. Journeyman	(47.5260 hrs @ \$71.04 / hr)	3,376.25
		3,376.25
Overhead & Profit	(\$4,462.72 @ 15.00%)	669.41
		669.41
Bond	(\$5,132.13 @ 0.51%)	26.17
		26.17
Total		695.58
		\$5,158.30

Request for Information

Project Name: Franklin WRF Modifications & Expansion Project		
Owner's Project No.: 2017-0264	CDM Smith Project No.: 14915-96594-WRF	
Contractor: Wayne J Griffin Electric, Inc. 296 Cahaba Valley Pkwy Pelham, AL, 35124	RFI No.: 116	
	Date: 07/12/19	
Subject: Solids Processing Building: Location of power for MOV-7040-1 and MOV-7040-2		
Spec Section:	Drawing: E-88	Detail:

QUESTION:

MOV-7040-1 and MOV-7040-2 are shown on drawing E-88 (see attached) however they are not shown on the single line diagrams. Please provide a location and circuit size for this equipment.

Please Respond by This Date: 07/26/19

Submitted by Contractor: Sarah Moore

Date: 07/12/19

Received by (CDM Smith):

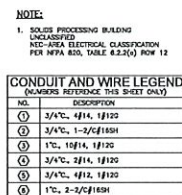
Date:

RESPONSE:

By:

Date:

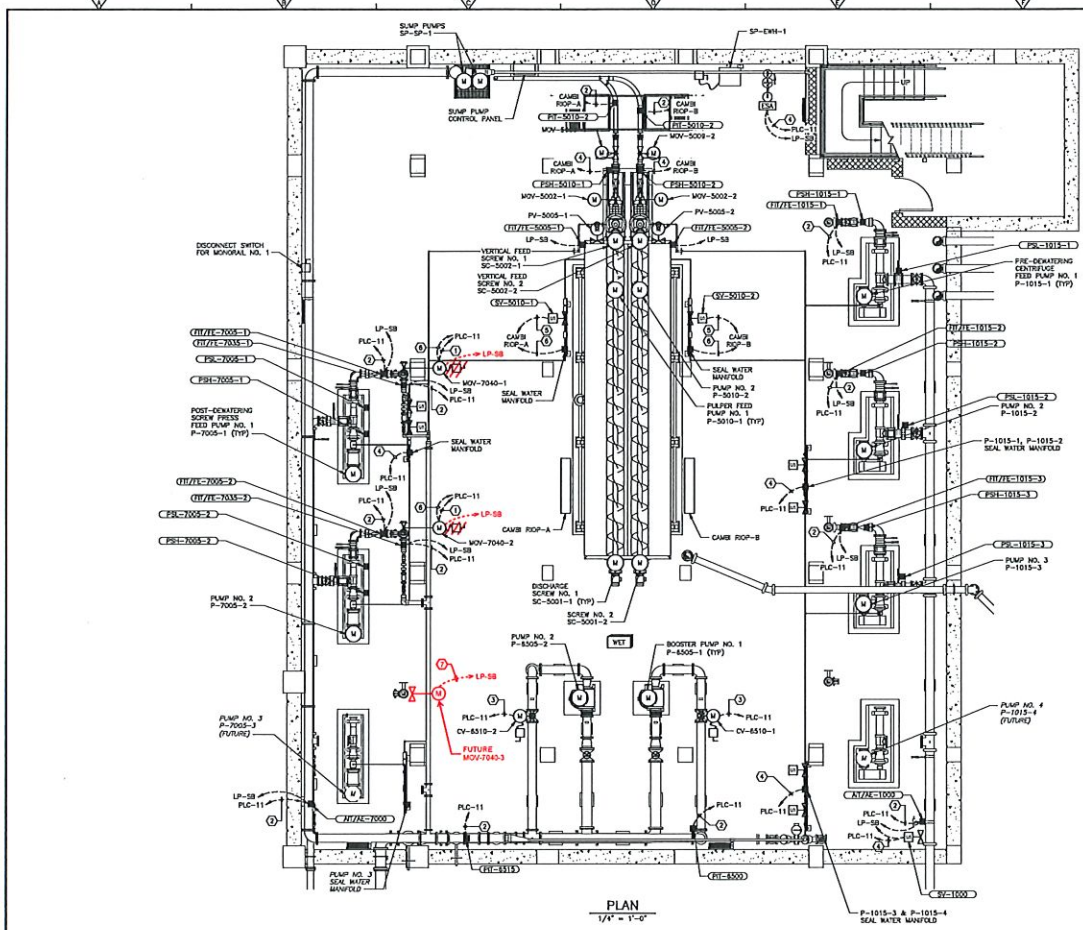
Distribution: Contractor, Owner, File, Field, RFI Notebook



NO.	DESCRIPTION
①	3/4", 4/14, 1/120
②	3/4", 1-2/C/16SH
③	1", 10/14, 1/120
④	3/4", 2/14, 1/120
⑤	3/4", 4/12, 1/120
⑥	1", 2-2/C/16SH

PROJECT NO 14815-85584-WP
FILE NAME: E0655DPL.DWG
SHEET NO.
E-88

NOTED: 1. THIS DRAWING IS THE PROPERTY OF GDM SMITH AND SHALL NOT BE USED IN WHOLE OR IN PART FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF GDM SMITH.
 2. ALL WORK SHALL BE IN ACCORDANCE WITH THE CITY OF FRANKLIN, TENNESSEE, SPECIFICATIONS AND STANDARDS.
 3. ALL WORK SHALL BE IN ACCORDANCE WITH THE CITY OF FRANKLIN, TENNESSEE, SPECIFICATIONS AND STANDARDS.
 4. ALL WORK SHALL BE IN ACCORDANCE WITH THE CITY OF FRANKLIN, TENNESSEE, SPECIFICATIONS AND STANDARDS.
 5. ALL WORK SHALL BE IN ACCORDANCE WITH THE CITY OF FRANKLIN, TENNESSEE, SPECIFICATIONS AND STANDARDS.
 6. ALL WORK SHALL BE IN ACCORDANCE WITH THE CITY OF FRANKLIN, TENNESSEE, SPECIFICATIONS AND STANDARDS.
 7. ALL WORK SHALL BE IN ACCORDANCE WITH THE CITY OF FRANKLIN, TENNESSEE, SPECIFICATIONS AND STANDARDS.
 8. ALL WORK SHALL BE IN ACCORDANCE WITH THE CITY OF FRANKLIN, TENNESSEE, SPECIFICATIONS AND STANDARDS.
 9. ALL WORK SHALL BE IN ACCORDANCE WITH THE CITY OF FRANKLIN, TENNESSEE, SPECIFICATIONS AND STANDARDS.
 10. ALL WORK SHALL BE IN ACCORDANCE WITH THE CITY OF FRANKLIN, TENNESSEE, SPECIFICATIONS AND STANDARDS.



NOTE:
 1. SOLIDS PROCESSING BUILDING
 UNCLASSIFIED
 NEC-AREA ELECTRICAL CLASSIFICATION
 PER NFPA 700, TABLE 6.2.2(4) ROW 12

CONDUIT AND WIRE LEGEND (NUMBERS REFERENCE THIS SHEET ONLY)	
NO.	DESCRIPTION
①	3/4" VC, 4/14, 1/120
②	3/4" VC, 1-2/0/180H
③	1" VC, 10/14, 1/120
④	3/4" VC, 2/14, 1/120
⑤	3/4" VC, 4/12, 1/120
⑥	1" VC, 2-2/0/180H
⑦	3/4" VC, 3/14, 1/120

DESIGNED BY: P. DUBOSE DRAWN BY: B. GORTON SHEET 043 OF 043 CHECKED BY: S. GORTON APPROVED BY: S. GORTON DATE: JUL 2018	GDM Smith 210 2nd Street, Suite 102 Nashville, TN 37203 TEL: 615.551.1111	CITY OF FRANKLIN, TENNESSEE FRANKLIN WRF MODIFICATIONS AND EXPANSION PROJECT CIP CONTRACT NO. 2017-0264	SOLIDS PROCESSING BUILDING LOWER LEVEL POWER PLAN PROJECT NO 14015-0004-WP FILE NAME: E0403PL04.DWG SHEET NO: E-88
--	---	--	--



Kiewit

Kiewit Infrastructure South Co.
4800 North Point Parkway, Suite 100
Alpharetta, GA 30022

February 11, 2020

To: Attn: Mr. Dan Harris

CP-KIEWIT-00010.00

CDM Smith, Inc.
210 25th Avenue North
Suite 1102
Nashville, TN 37203

Reference: Franklin WRF Modifications & Expansion Project
COF Contract No. 2017-0264

Subject: RFI 217 Progressing Cavity Pump Redesign

Dear Mr. Harris,

Attached you will find Kiewit's change proposal for **RFI 217 Progressing Cavity Pump Redesign**. This proposal includes changing the Pre-Dewatering Neat Polymer Storage Tank pumps (Tag Nos. P-2005-1 and P-2005-2). Kiewit offers a total cost of **One Thousand Nine Hundred Sixty-Three Dollars (\$1,963.00)**.

If you have any questions, please do not hesitate to contact me at (678) 794-2121.

Sincerely,

Steve Davis
Project Manager

cc: File
Michelle Hatcher



CHANGE CONTROL REQUEST

This Change Control Request form shall be filled in electronically, signed and submitted to CCB in electronic format. The native file in Word Format shall also be submitted.

All fields shall be filled in. Use N/A if a field is not applicable to each specific case.

FRANKLIN WRF MOD & EXPANSION PROJECT

Project: PRE-DEWATERING NEAT POLYMER TANK MIXING PUMPS (P-2005-1, 2005-2)	Change Control Request No:
Sales Order: 0004133039	Date: 2/7/20
Work Order: 103925	Rev No.:
Customer.: Taylor Flippen (KIEWIT)	Initiator.: Hannah Lei

Changes to:

☐ Order Acknowledgement

☐ Commercial Terms

☐ Technical Specification

☐ Engineering Specification

☒ GA Drawings

☒ Manufacturing Drawings

☐ Bill of Material

☐ Weld Procedures

☒ Purchase Order

☐ Quality Documentation

☐ Manufacturing Instructions

☒ Design Change

Departments affected:

☒ Engineering

☒ Application Engineering

☒ Documentation

☐ Manufacturing

☐ Sales

☒ Order Entry

Description of Change Control Request:

Change reducer from SK172.1-140TC (M1 Mount; in-line) to SK92372.1-145TC (M4A Mount; right angle configuration)

Reason/background for Change Control Request:

Existing in-line assembly footprint is too long for Franklin's system

Justification for Change Control Request:

Reducer footprint size from 65.36" to 51"

Effects of Change Control Request:

Drawing Redraft and New NOV PN for right-angle reducer

Cost Consequences

Yes ☒

No ☐

Net price Adder: \$1,707.20 (REF DOC "KIEWIT-RFI-000217" AND "CDM SMITH RFI.217")

Schedule impact / Manufacturing Impact:

PRE-RELEASE OF ORDER: Drawing Must be Redrafted and New NOV PN Created
POST-RELEASE OF ORDER: +2 week adder for Purchasing

Confidential



Authorization Approval	
Initiator (sign): <u></u> Hannah Jang Lei	Date: <u>2/7/20</u>
NOV Manager: Request recommended:	Yes ☒ No ☐
NOV Change Control Board Request accepted:	Yes ☒ No ☐
NOV comment:	
Customer Acceptance:	Change Control Board Acceptance:
Date: Signature:	Date: <u>02-07-2020</u> Signature: <u></u> PETER RICHARDSON

CO	4133039	4133040	4133042
LIST PRICE (ORIG)	\$ 24,796.00	\$ 37,461.00	\$ 33,432.00
Name	PRE-DEWATERING NEAT POLYMER TANK (2)	PRE-DEWATERING POLYMER SOLUTIONS FEED (3)	POST-DEWATERING SCREW PRESS FEED PUMPS (2)
Description	Z34AS81VPH/E;DD,2HP	Z34AS81VPH/E;DD,3HP	Z37BC11RMH/E;DD,7.5HP
NET PRICE ADDER TOTAL (PB)	\$ 4,927.52	\$ 7,391.28	\$ 6,125.60
NET PRICE ADDER TOTAL (RA)	\$ 1,707.20	\$ 2,213.68	\$ 2,788.80



Net Price: SPA Already Applied

RA: Right Angle Drive

CO	4133039	4133040	4133042
LIST PRICE (ORIG)	\$ 24,796.00	\$ 37,461.00	\$ 33,432.00
Name	PRE-DEWATERING NEAT POLYMER TANK	PRE-DEWATERING POLYMER SOLUTIONS FEED	POST-DEWATERING SCREW PRESS FEED PUMPS
Description	Z34AS81VPH/E;DD,2HP,SK 172.1	Z34AS81VPH/E;DD,3HP,SK 572.1	Z37BC11RMH/E;DD,7.5HP,S K672.1
INLINE (in)	65.36	72.07	107.11
LENGTH (RA) (in)	51	51	Drawing Not Done (~90)
LENGTH (PB) (in)	51	51	89



Request For Information

RFI Reference No: KIEWIT-RFI-000217

Status: CLOSED-OUT

For Action: Michael Sheston, Kiewit
Steve Davis, Kiewit
Jon Allen, CDM Smith
Dan Harris, CDM Smith
Laura Hernandez, Kiewit

For Info: Chris Tennyson, Kiewit
Kyle Krajco, Kiewit
Neena Bilbo, City of Franklin
Brian Goodwin, City of Franklin
Michelle Hatcher, City of Franklin
Tom Lamb, CDM Smith
Jim Townsend, CDM Smith
Taylor Flippin, Kiewit
Tim Roberson, Wayne J. Griffin
Sarah Moore, Wayne J. Griffin
Nick Young, Wayne J. Griffin
Nick Young, Wayne J. Griffin
Tate Atha, CDM Smith
Andrew McLain, Kiewit
Ewa PoplawskaPagan, Kiewit
Jonathan Johnson, Control Instruments, Inc.
Mason Millet, CDM Smith
Mark Renwick, Kiewit
Alex Landry, CDM Smith

Project: Franklin WRF Modification and Expansion Project

Subject: **Progressing Cavity Pumps Redesign**

Per submittal coordination meeting that occur on November 1, 2019, CDM Smith ask NOV to redesign the attached progressing cavity pumps. The discussion was brought up from response to RFI 178 regarding the returned submittal comments on the progressing cavity pumps. Please see the attached redesign of the requested progressing cavity pump for the project. Please provide information on how you want Kiewit/NOV to proceed with the redesign.

Attachments: Progressing Cavity Pumps Redesign.htm
RFI 217 - Porgressing Cavity Pump Redesign.pdf

Discipline: WWEQP

Area: MULTI-AREA

Location: NEW

Proposed Solution:

Specification Reference: 11315 - Progressing Cavity Pumps

Drawing Reference: N/A**Related RFI No(s):****Schedule Impact:****Cost Impact:****Priority:** H - High**Originator's Reference
No :****Alt. Reference Number:****Response Required By:** 02 January 2020

RFI by:	Corbin Coker, Kiewit	On: 19 December 2019
Created By:	Corbin Coker, Kiewit	On: 19 December 2019, 06:33:03 PM -06:00
Last Edited By:	Michael Sheston, Kiewit	On: 19 December 2019, 07:28:54 PM -06:00

01 - Engineer / Owner Comments

After discussion of this RFI with the Owner, we request that only the two Pre-Dewatering Neat Polymer Tank Mixing Pumps (Tag Nos. P-2005-1 and P-2005-2, Submittal D-11315-001) be resubmitted with right-angle drives in lieu of the originally specified inline drives. We understand that per the table on Page 2 of the RFI, the change to right-angle drives will result in an added cost to the Owner of \$1,707.20. Please submit a change order request for this change.

No changes will be made to the originally submitted Pre-Dewatering Polymer Solution Feed Pumps (Submittal D-11315-004) and Post-Dewatering Screw Press Feed Pumps (D-11315-007); these pumps should be resubmitted with the originally proposed drive arrangements.

Please note that this response does not constitute an approval. All of the progressing cavity pumps must be resubmitted in accordance with the Contract Documents.

Engineer / Owner Comments by:	Dan Harris, CDM Smith	On: 16 January 2020
Created By:	Jon Allen, CDM Smith	On: 16 January 2020, 11:28:31 AM -06:00
Last Edited By:	Jon Allen, CDM Smith	On: 16 January 2020, 11:28:31 AM -06:00

02 - Response Received / Closeout

On:

Response
Received / Closeout
by:

Created By:

On:

Last Edited By:

On:

Links

Document Links:

Document No.	Title	Rev.	Sts	Disc.	From	From Company
RFI217	Progressing Cavity Pumps Redesign	A	IFI	WWEQP	Taylor Flippen	Kiewit

CONSTRUCTION CHANGE AUTHORIZATION

TO:	Mr. Steve Davis Project Manager Kiewit Water Facilities South 4405 International Blvd., NW, Suite C-101 Norcross, Georgia 30093 (770) 940-8044	FROM:	CDM Smith 210 25 th Ave. N. Suite 1102 Nashville, TN 37203 (615) 320-3161
DATE:	July 25, 2019		
PROJECT:	City of Franklin, Tennessee Franklin WRF Modifications & Expansion Project		
CCA NUMBER:	19	CDM SMITH PROJ. NO.:	14915-231666
SUBJECT:	Floor and Wall Penetration Clarifications	CITY PROJECT NO.:	2017-0264
REFERENCE:	Drawings S-37 (attached), S-54, M-57, M-61, and M-63 Sketch SK-1 (attached)		

DESCRIPTION:

The objectives of this CCA are to clarify the design intent as to floor penetrations in the Solids Processing Building for sludge, water, and polymer pipes serving future equipment; and to modify the alum tank containment wall to accommodate the wall sleeve for the 2" drain from the pre-engineered FRP building.

Floor Penetrations in the Solids Processing Building

Provide a Future Pipe Slab Penetration (Detail C/S-54) for the following floor penetrations. Refer to the updated Detail C/S-54 in Sketch No. SK-1, attached.

1. 4"-WAS-DI sludge feed and discharge pipes for future Sludge Screen No. 3 (SS-1000-3)
Through second floor slab (from Screenings Bin Room to Sludge Screen Room)
Shown on: Drawings M-57 and M-61
2. 4"-WAS-DI sludge feed pipe to future Pre-Dewatering Centrifuge No. 4 (CENT-1020-4)
Through second floor slab (from Cake Bin & Sludge Area to Pre-Dewatering Room)
Shown on: Drawings M-55 and M-62
3. 3"-POLY-1DW-PVC polymer feed (Pipe 4A) to future Pre-Dewatering Centrifuge No. 4 (CENT-1020-4)
 - a. Through second floor slab (from Cake Bin & Sludge Area to Pre-Dewatering Room)
Shown on: Drawings M-57 and M-64

4. 4"-PLW-DI to future Pre-Dewatering Centrifuge No. 4
Through second floor slab (from Cake Bin & Sludge Area to Pre-Dewatering Room)
5. 4"-DS-DI sludge feed pipe to future Post-Dewatering Screw Press No. 3 (SP-7010-3)
Through second floor slab (from Post-Dewatering Conveyor Area to Post-Dewatering Room)
Shown on: Drawings M-57 and M-63
6. 3"-POL-S-2DW-PVC polymer feed to future Post-Dewatering Screw Press No. 3 (SP-7010-3)
Through second floor slab (from Post-Dewatering Conveyor Area to Post-Dewatering Room)
Shown on: Drawings M-57 and M-63

Modification to Alum Tank Containment Wall

Refer to Drawing S-37, attached. The changes on this drawing are intended to allow the wall sleeve for the 2" drain from the pre-engineered FRP building to be installed without interfering with the waterstop.

CDM SMITH:

By: _____

Date: _____


6/25/20

CONTRACTOR:

By: _____

Date: _____

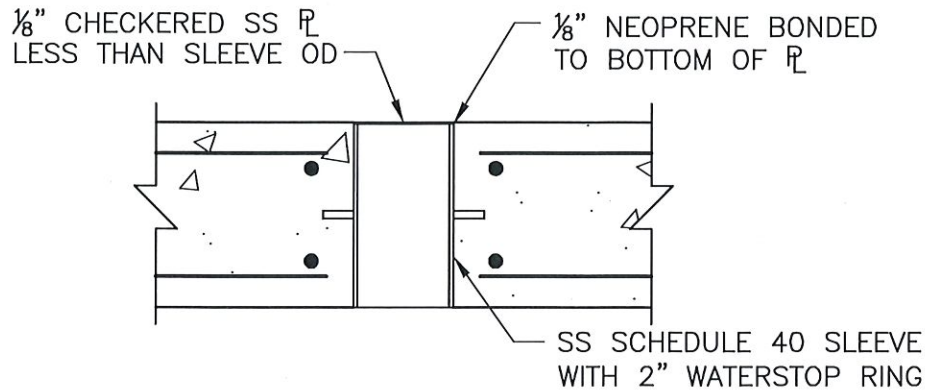

6/25/20

City of Franklin:

By: _____

Date: _____


6/25/20



PIPE SIZE	SLEEVE SIZE
1"Ø PVC	2½"
4"Ø DIP	6"
6"Ø HDPE	10"
8"Ø DUCT	12"
3"Ø PVC	6"

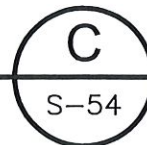
NOTES:

1. VERIFY SLEEVE SIZE WITH MECHANICAL SEAL MANUFACTURER'S REQUIREMENTS PRIOR TO FABRICATION.
2. REFER TO "M" DRAWINGS FOR FUTURE OPENING LOCATIONS.
3. INSTALL ADDITIONAL REINFORCING FOR INTERRUPTED REINFORCEMENT PER DETAIL D/SD-2 AT ALL LOCATIONS WHERE REINFORCEMENT IS CUT OR OTHERWISE MODIFIED TO INSTALL SLEEVE.

FUTURE PIPE SLAB PENETRATION

DETAIL

1" = 1'-0"



**CDM
Smith**

DATE JULY 2019

SHEET NO.

S-54

LOCATION

—

ADDENDUM
NO.

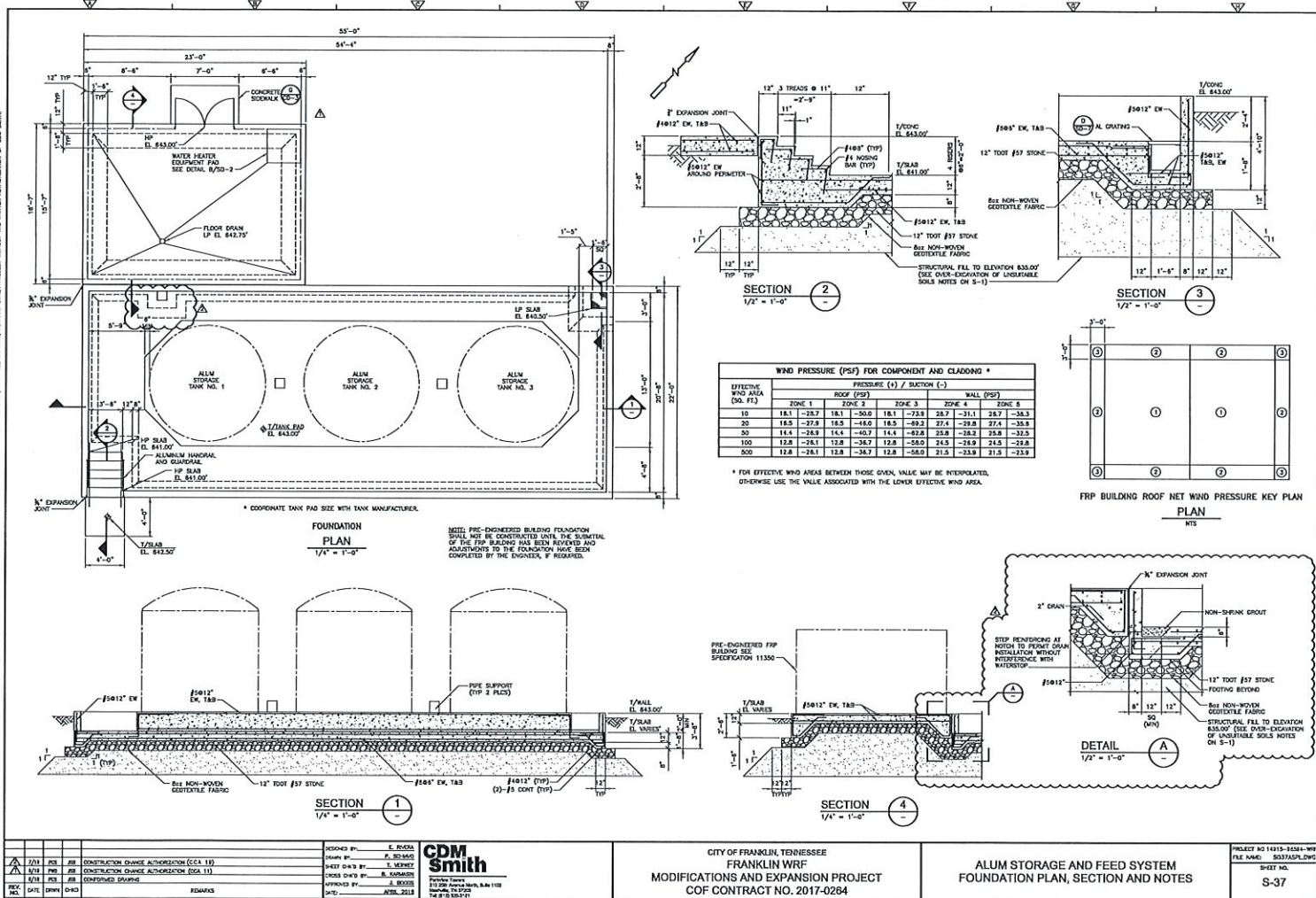
CCA 19

FIGURE
NO.

SK-1

THIS DOCUMENT IS THE PROPERTY OF CDM SMITH AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CDM SMITH.

CDM SMITH
10000 N. CENTRAL EXPRESSWAY
SUITE 100
DALLAS, TEXAS 75243
TEL: 972.346.7000
WWW.CDMSMITH.COM



CITY OF FRANKLIN, TENNESSEE
FRANKLIN WRF
MODIFICATIONS AND EXPANSION PROJECT
COF CONTRACT NO. 2017-0264

ALUM STORAGE AND FEED SYSTEM
FOUNDATION PLAN, SECTION AND NOTES

PROJECT NO 14313-10001-WF
FILE NAME: S03TA001.DWG
SHEET NO: S-37

CONFORMED DRAWING - AUGUST 2018



Kiewit

Kiewit Infrastructure South Co.
4800 North Point Parkway, Suite 100
Alpharetta, GA 30022

January 10, 2020

To: Attn: Mr. Dan Harris

CCA-CDM-00011.00

CDM Smith, Inc.
210 25th Avenue North
Suite 1102
Nashville, TN 37203

Reference: Franklin WRF Modifications & Expansion Project
COF Contract No. 2017-0264

Subject: Construction Change Authorization No. 019 - Floor & Wall Penetration Clarification

Dear Mr. Harris,

Kiewit is hereby submitting a cost proposal for **Construction Change Authorization No. 019 – Floor & Wall Penetration Clarification** in the amount of **Eleven Thousand Seventy-Eight Dollars (\$11,078.00)**. This proposal includes changes to the Alum Tank Containment Walls (**Drawing S-37**) to accommodate (7) Wall Sleeves, quoted by Ferguson Waterworks, for the 2" Drain from the FRP Building. This Proposal is a response to **RFI No. 084**.

If you have any questions, please do not hesitate to contact me at (678) 794-2121.

Sincerely,

Steve Davis
Project Manager

cc: File
Michelle Hatcher

Kiewit Infrastructure South Co.
4800 North Point Parkway, Suite 100
Alpharetta, GA 30022



DATE: 12/20/19

CCA NO.: 019 Floor and Wall Penetration Clarifications

PREPARED BY: Henry Alvarado

DESCRIPTION	QTY	UNIT	MH Per Unit	Total MH	DIRECT LABOR		INDIRECT LABOR		MATERIAL		CONST. EQUIPMENT		SUBCONTRACT		OTHER		TOTAL AMOUNT
					Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	
Floor Penetrations in the Solids Processing Bldg																	
LABOR																	
INSTALL 3"x4" FLOOR SLEEVES @ 4 MHEA	7.0	EA															
Foreman	1.0	EA	4.00	28.0	\$ 61.04	\$ 1,709.12											\$ 1,709.12
Pipefitter	2.0	EA	4.00	56.0	\$ 68.17	\$ 3,817.62											\$ 3,817.62
MATERIALS																	
Floor sleeves for future penetrations (Ferguson)	7.0	EA							\$ 375.00	\$ 2,625.00							\$ 2,625.00
Modification to ALUM Tank Containment Wall:																	
LABOR																	
ERECT & STRIP FORMS @ 0.25 MH/SF	2.0	SF															
Foreman	1.0	EA	0.25	0.5	\$ 61.04	\$ 30.52											\$ 30.52
Crew (2 Carpenters)	2.0	EA	0.25	1.0	\$ 38.34	\$ 38.34											\$ 38.34
PLACE/FINISH/CURE @ 1 MH/CY																	
Foreman	1.0	EA	1.0	1.0	\$ 61.04	\$ 61.04											\$ 61.04
Concrete Finisher	2.0	EA	1.0	2.0	\$ 38.34	\$ 76.68											\$ 76.68
Laborer	1.0	EA	1.0	1.0	\$ 36.13	\$ 36.13											\$ 36.13
PLACE GROUT @ 1 MH/CY																	
Concrete Finisher	0.5	CF															
	1.0	EA	1.0	0.5	\$ 38.34	\$ 19.17											\$ 19.17
MATERIALS																	
#57 TDOT Stone	1.0	TN							\$ 18.00	\$ 18.00							\$ 18.00
Class E 4500 PSI Concrete	1.0	CY							\$ 112.00	\$ 112.00							\$ 112.00
Grout	1.0	BAG							\$ 10.50	\$ 10.50							\$ 10.50
SUPPLIES																	
Purchase Formwork (Small hand set forms)	2.0	SF													\$ 3.00	\$ 6.00	\$ 6.00
Re-Excavate Sump @ 1 MH/CY:																	
LABOR																	
Foreman	1.0	EA	1.0	2.0	\$ 61.04	\$ 122.08											\$ 122.08
Excavator Operator	1.0	EA	1.0	2.0	\$ 39.68	\$ 79.36											\$ 79.36
Laborer	1.0	EA	1.0	2.0	\$ 36.13	\$ 72.26											\$ 72.26
CONSTRUCTION EQUIPMENT																	
CAT 314D LCR Excavator	2.0	HR									\$ 74.36	\$ 148.72					\$ 148.72
OTHER																	
STS - small tools, consumables, safety equip, (5% of direct labor, plus 9.75% sales tax: Formula = Total Direct Labor Subtotal * .05 * 1.0925)	96	MHR			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3.47	\$ 332.68	\$ 332.68
TAX: (9.75% of Material, Equipment, Other)																	
									\$ 269.64	\$ 269.64	\$ 14.50	\$ 14.50				\$ 33.02	\$ 317.16
BOND (2% of total)																	
				96		\$ 6,062.68	\$ -	\$ -	\$ 3,038.14	\$ 3,038.14	\$ 163.22	\$ 163.22	\$ -	\$ -	\$ 371.71	\$ 371.71	\$ 9,632.64
MARKUP %																	
						15.00%		15.00%		15.00%		15.00%		5.00%		15.00%	\$ 1,444.90
SUBTOTALS WITH MARKUPS APPLIED																	
						\$ 6,971.97			\$ 3,490.41	\$ 3,490.41	\$ 187.70	\$ 187.70			\$ 427.40	\$ 427.40	\$ 11,077.64
BOND																	
TOTAL																	
																	\$ 11,078.00



FEL GEORGIA WATERWORKS #775
6145 BUFFINGTON RD
COLLEGE PARK, GA 30349-4802

Phone: 770-774-3247
Fax: 770-774-3453

Deliver To:
From: Justin Rhodes
Comments:

10:16:06 DEC 23 2019

Page 1 of 1

FEL #775
Price Quotation
Phone: 770-774-3247
Fax: 770-774-3453

Bid No: B475944
Bid Date: 12/23/19
Quoted By: JDR

Cust Phone: 770-564-8861
Terms: NET 10TH PROX

Customer: WESTERN SUMMIT CONSTRUCTO
PO BOX 452500
OMAHA, NE 68145

Ship To: WESTERN SUMMIT CONSTRUCTO
PO BOX 452500
OMAHA, NE 68145

Cust PO#: WALL SLEEVES

Job Name: FRANKLIN WRF

Item	Description	Quantity	Net Price	UM	Total
SP-CSSWS	SS WALL SLEEVE 6X1' SS316 WALL SLEEVE W/ 2" WC WITH SS CHECKERED PLATE AND NEOPRENE BONDING	7	375.000	EA	2625.00

Net Total: \$2625.00
Tax: \$157.50
Freight: \$0.00
Total: \$2782.50

Quoted prices are based upon receipt of the total quantity for immediate shipment (48 hours). SHIPMENTS BEYOND 48 HOURS SHALL BE AT THE PRICE IN EFFECT AT TIME OF SHIPMENT UNLESS NOTED OTHERWISE. QUOTES FOR PRODUCTS SHIPPED FOR RESALE ARE NOT FIRM UNLESS NOTED OTHERWISE.

CONTACT YOUR SALES REPRESENTATIVE IMMEDIATELY FOR ASSISTANCE WITH DBE/MBE/WBE/SMALL BUSINESS REQUIREMENTS.

Seller not responsible for delays, lack of product or increase of pricing due to causes beyond our control, and/or based upon Local, State and Federal laws governing type of products that can be sold or put into commerce. This Quote is offered contingent upon the Buyer's acceptance of Seller's terms and conditions, which are incorporated by reference and found either following this document, or on the web at <https://www.ferguson.com/content/website-info/terms-of-sale>
Govt Buyers: All items are open market unless noted otherwise.

LEAD LAW WARNING: It is illegal to install products that are not "lead free" in accordance with US Federal or other applicable law in potable water systems anticipated for human consumption. Products with *NP in the description are NOT lead free and can only be installed in non-potable applications. Buyer is solely responsible for product selection.



HOW ARE WE DOING? WE WANT YOUR FEEDBACK!

Scan the QR code or use the link below to
complete a survey about your bids:

<https://survey.medallia.com/?bidsorder&fc=554&on=23110>

Attachment A Bedding

Schedule of Values

Item	Description	Approx. Quantity	Unit of Measure	Unit Price	Total
1	TDOT 57 Stone		TN	\$ 18.00	
2	TDOT Grade D		TN	\$ 12.50	
3	Class A3 Rip Rap		TN	\$ 21.00	
4	Surge Stone		TN	\$ 13.00	
5	Class A1 Rip Rap		TN	\$ 21.00	
6	2" to 3" Stone		TN	\$ 17.75	
7	TDOT #4 Stone		TN	\$ 17.75	
	Approximate Contract Total (without Taxes)				
	Bond (0%)				\$ -

1.0 General Description of the "Work": Provide all supervision, labor, material tools and equipment to furnish and deliver aggregates of the type, at the unit prices, and up to the qty shown on the Schedule of Values.

- .1 FURNISH SECTIONS: 02230 - Granular Materials complete per plans, specifications, and addenda [Addenda 1-6];

Also includes in addition to the above, any other applicable and/or related specification sections, including but not limited to: Division 00 and Division 1 General Requirements

2.0 Including But Not Limited to:

- .1 The Contract price(s) are firm through 12/31/19.
- .2 Seller will provide _0_% of the Seller's total contract dollar value in DBE participation.
- .3 Material is not exempt from sales or use taxes.
- .4 **Industrial Machinery Sales and Use Tax Exemption Certificate – Attachment C-3 (per Specification Section 00800 Supplementary Conditions Article SC-6.10A).** Sales and Use Tax Exemption Certificate will be provided for the Project by the Contractor.
- .5 All Deliveries must include a material ticket recognizing the material and quantity delivered. Delivery Tickets to be signed by Contractor for validation of receipt and acceptance to pay for actual quantities delivered.

3.0 Clarifications:

- .1 Effective 1/1/20 Seller will institute a 3% increase per ton on all remaining aggregate through 12/31/20. An additional 3% increase will be effective per ton starting 1/1/21 through 12/31/21.
- .2 Delivered prices are based on full loads (20 ton or more) a minimum haul may be applied for smaller loads.

ATTACHMENT A Concrete

Scope of Work

Item	Description	Quantity	Unit of Measure	Unit Price	Total
1	Class A 2500 PSI	0.00	CY	\$ 104.00	\$ -
2	Class E1 4500 PSI		CY	\$ 112.00	
3	Class E2 4500 PSI		CY	\$ 112.00	
4	Class E3 4500 PSI		CY	\$ 112.00	
5	Class F (10) 4500 PSI	0.00	CY	\$ 113.00	\$ -
6	Excavatable Flow Fill 1 (100 psi)	0.00	CY	\$ 101.00	\$ -
7	Excavatable Flow Fill 2 (75 psi)	0.00	CY	\$ 103.00	\$ -
8	Excavatable Flow Fill 3 (50psi)	0.00	CY	\$ 98.00	\$ -
9	4000 PSI #7 Limestone	0.00	CY	\$ 130.00	\$ -
10	4000 PSI 2" Line Pump Mix with Fiber @ 1.5lbs per cy	0.00	CY	\$ 126.00	\$ -
11	4000 PSI Fine Grout Mix (4" Slump)	0.00	CY	\$ 142.00	\$ -
12	Add for Poly Fiber Reinforcement @ 1.5lbs per cy	0.00	CY	\$ 6.00	\$ -
13	Add for SRA035 Shrinkage Admixture @ 1 gal per cy	0.00	CY	\$ 35.00	\$ -
14	To Insurance slump up to 6", add per cy MRWR	0.00	CY	\$ 3.00	\$ -
15	To insurance slump up to 8", add per cy HRWR	0.00	CY	\$ 5.00	\$ -
Contract Total (without Taxes)					

1.0 General Description of the "Work": The s

- .1 FURNISH SECTIONS: Section 03300 – Cast-In-Place Concret per plans, specifications, and Addenda [Addenda 1-6]

Also included in additional to the above, any other applicable and/or related specification sections. Including but not limited to: Division 00, Division 1 General Requirements.

2.0 Including But Not Limited to:

- .1 The Unit Prices in the Schedule of Valves are firm for the durations of the Project including escalation.
.2 Seller will provide 0% of the Seller's total contract dollar value in DBE participation.
.3 Material is not exempt from sales or use taxes.

Rental Rate Blue Book®
Caterpillar 314D LCR (disc. 2013)
Crawler Mounted Hydraulic Excavators


Size Class:
14.1 - 16.0 MTons
Weight:
31085 MT

Configuration for 314D LCR (disc. 2013)

Bucket Capacity - Heaped	0.56 cu yd	Net Horsepower	90.0 hp
Operating Weight	14.1 mt	Power Mode	Diesel

Blue Book Rates

** FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs	FHWA Rate**
	Monthly	Weekly	Daily	Hourly	Hourly	Hourly
Published Rates	USD \$6,990.00	USD \$1,960.00	USD \$490.00	USD \$74.00	USD \$34.64	USD \$74.36
Adjustments						
Region (100%)	-	-	-	-		
Model Year (2013: 100%)	-	-	-	-		
Adjusted Hourly Ownership Cost (100%)	-	-	-	-		
Hourly Operating Cost (100%)					-	
Total:	USD \$6,990.00	USD \$1,960.00	USD \$490.00	USD \$74.00	USD \$34.64	USD \$74.36

Non-Active Use Rates

	Hourly
Standby Rate	USD \$21.05
Idling Rate	USD \$49.67

Rate Element Allocation

Element	Percentage	Value
Depreciation (ownership)	37%	USD \$2,586.30/mo
Overhaul (ownership)	47%	USD \$3,285.30/mo
CFC (ownership)	10%	USD \$699.00/mo
Indirect (ownership)	6%	USD \$419.40/mo
Fuel (operating) @ USD 3.07	29%	USD \$9.95/hr

Revised Date: 2nd half 2019

These are the most accurate rates for the selected Revision Date(s). However, due to more frequent online updates, these rates may not match Rental Rate Blue Book Print. Visit the Cost Recovery Product Guide on our Help page for more information.

The equipment represented in this report has been exclusively prepared for HENRY ALVARADO
(Henry.Alvarado@kiewit.com)



Request For Information

RFI Reference No: KIEWIT-RFI-000084

Status: RESP RECD

For Action: Michael Sheston, Kiewit
Steve Davis, Kiewit
Dan Harris, CDM Smith
Jon Allen, CDM Smith

For Info: Tom Lamb, CDM Smith
Jim Townsend, CDM Smith
Brian Goodwin, City of Franklin
Michelle Hatcher, City of Franklin
Neena Bilbo, City of Franklin
Stephen Reid, Kiewit
Kyle Krajco, Kiewit
Jared Carr, Kiewit
Taylor Flippen, Kiewit
Andy McMillen, Kiewit
Chris Tennyson, Kiewit

Project: Franklin WRF Modification and Expansion Project

Subject: Clarification on Pipe and Sleeve Penetration

Item 1 - Drawing M-2 & M-6 shows a 6" PLW-DI pipe going through the wall.

Item 2 - Drawing M-56 shows (2) 1/2" PLOW-CU and a 2" PLW-CPVC pipes going through the wall.

Item 3 - Drawing M-2/M-62 shows (3) 3" POLS-1DW-PVC that appears to go through the slab.

There is no specific penetration details for these pipes. Please see corresponding pages for additional information.

Attachments: RFI 084 - Clarification on Pipe and Sleeve Penetration.htm
RFI 084 - Clarification on Pipe and Sleeve Penetration.pdf

Discipline: WWEQP

Area: MULTI-AREA

Location: GEN

Proposed Solution:

As per Dan Harris's suggestion to use a link-seal with sleeve detail F/MD-1 or use filler & caulk pipe opening for the (2) 1/2" PLW-CU pipes, Kiewit is proposing to use sleeve detail F-MD-1 for the (2) 1/2" PLW-CU pipes, wall pipe for the 6" PLW-DI pipe and sleeve detail C/MD-1 for the (3) 3" POLS-1DW-PVC pipes.

Please advise and confirm details to be used for pipes and also thickness of slab for (3) 3" POLS-1DW-PVC pipes that appears to be going through the slab as shown on drawing 2/M-62.

Specification Reference: 01172 - Pipe Penetrations

Drawing Reference:

M-2
M-6
M-56
M-62
MD-1

Related RFI No(s):

Schedule Impact:

Cost Impact:

Priority: H - High

**Originator's Reference
No :**

Alt. Reference Number:

Response Required By: 06 June 2019

RFI by:	Abibat Ahmed, Kiewit	On: 22 May 2019
Created By:	Michael Sheston, Kiewit	On: 22 May 2019, 08:33:21 AM -05:00
Last Edited By:	Michael Sheston, Kiewit	On: 22 May 2019, 08:57:37 AM -05:00

01 - Engineer / Owner Comments

1. Item 1 – 6" PLW-DI at Headworks

A wall pipe is acceptable for the 6" PLW-DI pipe passing through the wall from the grit classifier area to the dumpster area. Provide the wall pipe, without the waterstop flange, per Detail A/MD-1.

2. Item 2 – ½" PLW-CU and 2" PLW-PVC Pipes Through South Wall of Solids Processing Building

Detail F/MD-1 (wall sleeve and mechanical seals) is acceptable for the two ½" PLW-CU pipes and the 2" PLW-PVC pipe exiting the south wall of the Solids Processing Building.

3. Item 3 – 3" POLS-1DW-PVC to Pre-Dewatering Centrifuges on Drawing M-62

The three 3" POLS-1DW-PVC pipes shown passing horizontally through the floor slab were incorrectly modeled. Three 3" POLS-1DW-PVC polymer solution pipes (one pipe per pre-dewatering centrifuge) are intended to pass vertically through the floor slab, from the Cake Bin & Sludge Area to the Pre-Dewatering Room, and connect to the polymer inlet at each pre-dewatering centrifuge. Per Note 1.a in Section 5/Drawing M-64, these polymer feed points are designated as Feed Points 1A, 2A, and 3A. The floor penetration for these three pipes is called out as Detail H/MD-1 in Section 4/Drawing M-64. Note that the locations of these floor penetrations may need to be adjusted based on the polymer feed port location of the selected centrifuge.

Engineer / Owner Comments by:	Carrie Carden, CDM Smith	On: 03 June 2019
Created By:	Jon Allen, CDM Smith	On: 03 June 2019, 01:44:49 PM -05:00
Last Edited By:	Jon Allen, CDM Smith	On: 03 June 2019, 01:44:49 PM -05:00

02 - Response Received / Closeout

Response
Received / Closeout
by:

On:

Created By:

On:

Last Edited By:

On:

Links

Document Links:

Document No.	Title	Rev.	Sts	Disc.	From	From Company
M-2_103925	HEADWORKS LOWER LEVEL PLAN	00	IFC	WWEQP	Michael Sheston	Kiewit
M-56_103925	SOLIDS PROCESSING BUILDING FIRST FLOOR PLAN -PLAN 2	00	IFC	WWEQP	Michael Sheston	Kiewit
M-6_103925	HEADWORKS SECTIONS II	00	IFC	WWEQP	Michael Sheston	Kiewit
M-62_103925	SOLIDS PROCESSING BUILDING SECTION	00	IFC	WWEQP	Michael Sheston	Kiewit
MD-1_103925	PIPE PENETRATION DETAILS	00	IFC	WWEQP	Michael Sheston	Kiewit
RFI084	RFI 084 - Clarification on Pipe and Sleeve Penetration	A	IFR	WWEQP	Abibat Ahmed	Kiewit

Change Proposal Preparation Checklist

Project Name: _____ Orig. \$ Cont. Amt. _____ Co. / Proj. #: _____

Change Order / Claim Identification (Name/No) / \$ Amt. _____

Lead Preparer Initials	Mgr Review Initials	Intended Submittal Date: _____ Public/Private: _____
_____	_____	1. All major items have adequate supporting schedules and documentation.
_____	_____	2. G&A rate is correct; no other duplicative overhead is included in PCO.
_____	_____	3. Equipment rates used in PCO are in accordance with contract specifications. • Operating expenses are either separately stated or part of the rate. • Stand by rates used per contract or other acceptable method. • 3rd party equipment is billed in accordance with contract specifications.
_____	_____	4. Time Related Overhead calculations are per contract, and are properly supported by the cost report. Items in the TRO are time related expenses, and not lump sum type items. If applicable, contingency items in the TRO are separately identified for transparency.
_____	_____	5. Worksheets were reviewed for accurate formulas; all spreadsheets total and cross check properly.
_____	_____	6. All markups used are in accordance with contract specs.
_____	_____	7. Labor add-on rates were tested and reconciled to union agreements or other supporting documentation; taxes and insurance were verified for accuracy.
_____	_____	8. To the extent required by law or the contract with the owner, contingency items are separately identified and transparent to reader.
_____	_____	9. Subcontractor change proposal has been reviewed and is reasonably supported. (Complete Appendix 3 if Subcontract costs are include in the proposal.)
_____	_____	10. Previously submitted costs are not included in this request.

I have reviewed the Change Proposal and believe it is in compliance with the contract, and specifically the checklist above. To the extent required by Corporate Policy, this will be submitted to Internal Audit for review.

Lead Preparer	_____	_____
	Name	Date
0 - \$100,000	_____	_____
	Approved by Project Manager	Date
\$100,001 - \$500,000	_____	_____
	Approved by Sponsor	Date
\$500,001 - \$2,000,000	_____	_____
	Approved by Area Manager	Date
	_____	_____
	Approved by District Contract Administration Mgr	Date
\$2,000,000+	_____	_____
	Approved by District Manager	Date



Kiewit Infrastructure South Co.
4800 North Point Parkway, Suite 100
Alpharetta, GA 30022

June 4, 2020

To:

Attn: Mr. Dan Harris

CP-KIEWIT-00023.00

CDM Smith, Inc.
210 25th Avenue North
Suite 1102
Nashville, TN 37203

Reference: Franklin WRF Modifications & Expansion Project
COF Contract No. 2017-0264

Subject: MTEMC Permanent Power Relocation

Dear Mr. Harris,

Kiewit is hereby submitting a cost proposal for **MTEMC Permanent Power Relocation and the Reserve Capacity Charge for permanent power** in the amount of One Hundred Sixty-Nine Thousand Nine Hundred and Seventy-Five Dollars and Twenty-Five Cents (**\$169,975.25**)

This proposal is for the additional duct bank excavation, bedding, encasement, and backfill of the electrical conduit and quazite pull boxes required to relocate the service drop for MTEMC. The original service drop location is being changed by MTEMC because of clearance issues with the overhead lines. This invoice must be paid prior to MTEMC supplying the new permanent power for the project. This work has not been completed, but Kiewit has received approval to proceed with the work.

I have also attached the original email from MTEMC outlining the costs that would be associated with the permanent power as well as the original design and the changes that were required due to the change in design by MTEMC.

Below is a summary of costs that would be associated with Allowance No. 8 – Allowance for Middle Tennessee Electrical Membership Corporation (MTEMC) fees:

\$79,561.25 – cost for materials and labor to begin procurement and install the new equipment. This cost has been previously paid by Kiewit and the City of Franklin.

\$32,414.00 – cost submitted by Kiewit to accommodate the change in design by MTEMC. Includes the quazite pull boxes and additional ductbank.

\$208,000.00 – Invoice No. 90083682 – Reserve Capacity charge.

\$319,975.25 - Total Charges relating to Allowance No. 8 – Allowance for Middle Tennessee Electrical Membership Corporation (MTEMC) fees.

\$150,000.00 – Current Amount of Allowance No. 8 – Allowance for Middle Tennessee Electrical Membership Corporation (MTEMC) fees.

(\$169,975.25) Deficient Amount for Allowance No. 8 – Allowance for Middle Tennessee Electrical Membership Corporation (MTEMC) fees.

Kiewit will need to be issued a change to fund Allowance No. 8 in order to bill for the Reserve Capacity Charge. All-wire will be pulled by MTEMC.

If you have any questions, please do not hesitate to contact me at (678) 794-2121.



Kiewit

Kiewit Infrastructure South Co.
4800 North Point Parkway, Suite 100
Alpharetta, GA 30022

Sincerely,


Steve Davis

Project Manager

cc: File
Michelle Hatcher

 **Middle Tennessee Electric
Membership Corporation**
Your Touchstone Energy® Cooperative 
555 New Salem Hwy
Murfreesboro, TN 37129

INVOICE: 90083682

Invoice Date: 05/20/2020
Terms: Due Upon Receipt
Due Date: 05/20/2020
Amount Due: \$ 208,000.00

KIEWIT WATER FACILITIES
P.O. BOX 452500
OMAHA NE 68145

Account: 513908		Page 1 of 1			
Description: Reserve Capacity Charge					
DESCRIPTION	QUANTITY	UOM	UNIT PRICE	AMOUNT	TAX
Reserve Capacity Charge	1.000	EA	208,000.0000	208,000.00	
MESSAGES		Subtotal: \$ 208,000.00			
		Tax: \$ 0.00			
		Total: \$ 208,000.00			
		Amount Paid: \$ 0.00			
		Amount Due: \$ 208,000.00			

 **Middle Tennessee Electric
Membership Corporation**
Your Touchstone Energy® Cooperative 
555 New Salem Hwy
Murfreesboro, TN 37129

Account: 513908
Invoice: 90083682
Due Date: 05/20/2020
Amount Due: \$ 208,000.00

Amount Of Payment: _____

Remit To:

MIDDLE TENNESSEE EMC
555 NEW SALEM HWY
MURFREESBORO TN 37129

KIEWIT WATER FACILITIES
P.O. BOX 452500
OMAHA NE 68145

Steven.Davis1

From: O'Neal, Bobby <Bobby.O'Neal@mtmc.com>
Sent: Friday, February 8, 2019 1:34 PM
To: Steven.Davis1
Subject: [EXTERNAL] FW: Franklin Water Plant costs
Attachments: Franklin Water Plant costs.pdf; Franklin Water Plant AT Switch.pdf

Steve, see attached updated costs for the Waste Water Project. Thanks.

Bobby O'Neal

Service Designer
Middle Tennessee Electric
Membership Corporation – Franklin
2156 Edward Curd Lane, Franklin, TN 37067
615.595.4683



Middle Tennessee Electric
Membership Corporation

*"Providing affordable, reliable, safe electricity
and outstanding member service."*

From: Ogles, Kevin
Sent: Thursday, February 07, 2019 11:39 AM
To: O'Neal, Bobby <Bobby.O'Neal@mtmc.com>; Hale, Erik <Erik.Hale@mtmc.com>; Palmer, Todd <Todd.Palmer@mtmc.com>
Subject: Franklin Water Plant costs

Attached are the updated Franklin Water Plant costs. I've broken it down in to three parts.

The transfer switches will be charged at 1.5% monthly investment charge that will be added to their bill every month once they are installed. The estimated charge for this will be \$2,255.03/month.

A one-time reserve capacity charge will be assessed at \$20,000 per MW. This will be based on their contract demand. We will need to get Todd Palmer involved to determine what this needs to be. They are setting their own 10.4 MW transformers so if they plan to load this to 100%, they would need to pay \$208,000.00. This will need to be paid before we put the transfer switch in service.

The cost for the remaining material and labor will be \$79,561.25. They will need to pay this before we order material.

We need to create a separate work order for just the transfer switch so we can determine the investment charge when the project is complete.

Material and labor cost
previously paid by
Kiewit/CoF

Kevin Ogles, P.E.
Electrical Engineer

MTEMC
555 New Salem Hwy
Murfreesboro TN, 37129
Phone (615) 494-1529

AT Switch					
POLE#1	QUANT	MAT	LAB	O&M	TOTAL
45'H1 S	1	\$1,540.00	\$561.85	\$0.00	\$2,101.85
VM3-13TSF	1	\$1,685.04	\$1,752.19	\$0.00	\$3,437.23
Recloser, Control, Communications	1			\$0.00	\$26,667.00
VM3-3FX	1	899.88	969.00	620.47	2,489.35
1.5 KVAOH	3	\$470.00	\$93.78	\$0.00	\$1,691.34
VG5C	3	\$76.88	\$70.03	\$0.00	\$440.73
VG5T	3	\$10.08	\$40.72	\$0.00	\$152.40
VG5A	6	\$33.99	\$44.23	\$0.00	\$469.32
VM2-11S	1	\$34.05	\$100.57	\$0.00	\$134.62
					\$37,583.84
POLE#5	QUANT	MAT	LAB	O&M	TOTAL
45'H1 S	1	\$1,540.00	\$561.85	\$0.00	\$2,101.85
VM3-13TSF	1	\$1,685.04	\$1,752.19	\$0.00	\$3,437.23
Recloser, Control, Communications	1			\$0.00	\$26,667.00
VM3-3FX	1	899.88	969.00	620.47	2,489.35
1.5 KVAOH	3	\$470.00	\$93.78	\$0.00	\$1,691.34
VG5C	3	\$76.88	\$70.03	\$0.00	\$440.73
VG5T	3	\$10.08	\$40.72	\$0.00	\$152.40
VG5A	6	\$33.99	\$44.23	\$0.00	\$469.32
VM2-11S	1	\$34.05	\$100.57	\$0.00	\$134.62
					\$37,583.84
POLE#6	QUANT	MAT	LAB	O&M	TOTAL
45'H1 S	1	\$1,540.00	\$561.85	\$0.00	\$2,101.85
VM3-13TSF	1	\$1,685.04	\$1,752.19	\$0.00	\$3,437.23
Recloser, Control, Communications	1			\$0.00	\$26,667.00
VM3-3FX	1	899.88	969.00	620.47	2,489.35
1.5 KVAOH	3	\$470.00	\$93.78	\$0.00	\$1,691.34
VG5C	3	\$76.88	\$70.03	\$0.00	\$440.73
VG5T	3	\$10.08	\$40.72	\$0.00	\$152.40
VG5A	6	\$33.99	\$44.23	\$0.00	\$469.32
VM2-11S	1	\$34.05	\$100.57	\$0.00	\$134.62
					\$37,583.84
POLE#10	QUANT	MAT	LAB	O&M	TOTAL
45'H1 S	1	\$1,540.00	\$561.85	\$0.00	\$2,101.85
VM3-13TSF	1	\$1,685.04	\$1,752.19	\$0.00	\$3,437.23
Recloser, Control, Communications	1			\$0.00	\$26,667.00
VM3-3FX	1	899.88	969.00	620.47	2,489.35
1.5 KVAOH	3	\$470.00	\$93.78	\$0.00	\$1,691.34
VG5C	3	\$76.88	\$70.03	\$0.00	\$440.73
VG5T	3	\$10.08	\$40.72	\$0.00	\$152.40
VG5A	6	\$33.99	\$44.23	\$0.00	\$469.32
VM2-11S	1	\$34.05	\$100.57	\$0.00	\$134.62
					\$37,583.84

Estimatd Monthly Facilities charge for AT switch (1.5% per month of installation labor and material)

\$2,255.03

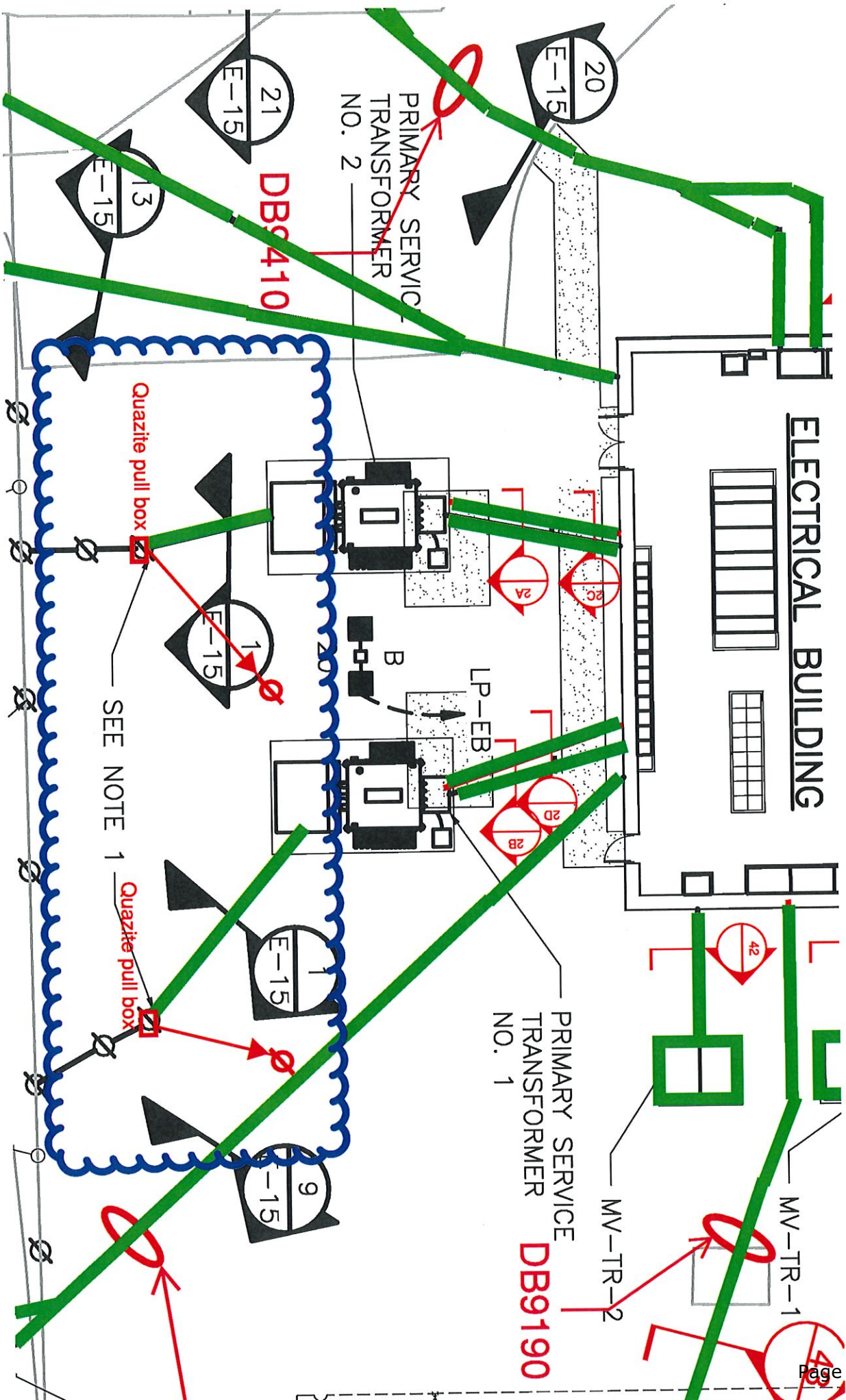
OneTime Reserve Capacity Charge (This will be based on your contract demand)

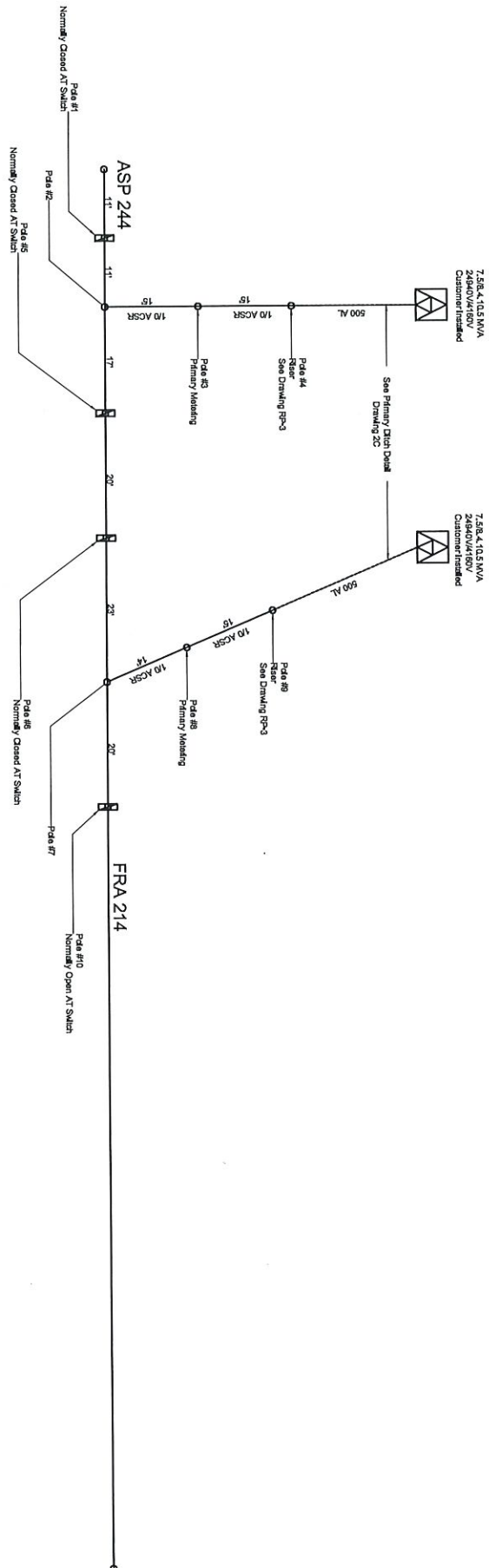
\$20,000 per MW

POLE#2	QUANT	MAT	LAB	O&M	TOTAL
45'H1 S	1	\$1,540.00	\$561.85	\$697.81	\$2,799.66
VC1-3F	1	\$399.49	\$118.06	\$171.83	\$689.38
VC7HDF-1	1	\$289.73	\$278.78	\$188.75	\$757.26
VM2-11S	1	\$34.05	\$100.57	\$44.69	\$179.31
#1/O ACSR	45	\$0.21	\$0.76	\$0.32	\$58.14
#2 ACSR	15	\$0.14	\$0.72	\$0.29	\$17.18
					\$4,500.93
POLE#3 Primary Metering Pole	QUANT	MAT	LAB	O&M	TOTAL
45'H1S	1	\$1,540.00	\$561.85	697.81	2,799.66
VM5-4	1	33.16	30.61	21.17	84.94
RACK	1	494.34	247.17	246.18	987.69
PT	3	1,563.00	781.50	778.37	9,368.62
CT	3	1,400.00	700.00	697.20	8,391.60
VQ4-1PM					
VG5A	6	33.99	44.23	25.97	625.13
J10	1	5.26	22.88	9.34	37.48
VG5H-10DF	1	307.90	105.62	137.29	550.81
VM3-3FX	1	899.88	969.00	620.47	2,489.35
VM2-11S	1	\$34.05	\$100.57	\$44.69	\$179.31
#1/O ACSR	45	\$0.21	\$0.76	\$0.32	\$58.14
#2 ACSR	15	\$0.14	\$0.72	\$0.29	\$17.18
					25,589.93
POLE#4 Riser Pole	QUANT	MAT	LAB	O&M	TOTAL
45'H1S	1	\$1,540.00	\$561.85	\$697.81	\$2,799.66
VC7HDF-1	1	\$289.73	\$278.78	\$188.75	\$757.26
VG5HF	5	\$131.72	\$52.81	\$61.26	\$1,228.97
VG5AI	3	\$40.77	\$60.26	\$33.54	\$403.72
VM2-11S	1	\$34.05	\$100.57	\$44.69	\$179.31
VUM2-5-500	1	\$332.43	\$340.75	\$223.50	\$896.68
VM3-14	3	\$149.12	\$70.04	\$72.76	\$875.76
500 ALCNC	50	\$9.21	\$3.58	\$4.25	\$851.81
VUM600-500A	3	\$214.07	\$85.33	\$99.40	\$1,196.40
VUM6-7	3	\$68.92	\$56.88	\$41.77	\$502.70
					\$9,692.27
POLE#7	QUANT	MAT	LAB	O&M	TOTAL
45'H1 S	1	\$1,540.00	\$561.85	\$697.81	\$2,799.66
VC1-3F	1	\$399.49	\$118.06	\$171.83	\$689.38
VC7HDF-1	1	\$289.73	\$278.78	\$188.75	\$757.26
VM2-11S	1	\$34.05	\$100.57	\$44.69	\$179.31
#1/O ACSR	42	\$0.21	\$0.76	\$0.32	\$54.27
#2 ACSR	14	\$0.14	\$0.72	\$0.29	\$16.04
					\$4,495.91
POLE#8 Primary Metering Pole	QUANT	MAT	LAB	O&M	TOTAL
45'H1S	1	\$1,540.00	\$561.85	697.81	2,799.66
VM5-4	1	33.16	30.61	21.17	84.94
RACK	1	494.34	247.17	246.18	987.69
PT	3	1,563.00	781.50	778.37	9,368.62
CT	3	1,400.00	700.00	697.20	8,391.60
VQ4-1PM					
VG5A	6	33.99	44.23	25.97	625.13
J10	1	5.26	22.88	9.34	37.48
VG5H-10DF	1	307.90	105.62	137.29	550.81
VM3-3FX	1	899.88	969.00	620.47	2,489.35
VM2-11S	1	\$34.05	\$100.57	\$44.69	\$179.31
#1/O ACSR	45	\$0.21	\$0.76	\$0.32	\$58.14
#2 ACSR	15	\$0.14	\$0.72	\$0.29	\$17.18
					25,589.93
POLE#9 Riser Pole	QUANT	MAT	LAB	O&M	TOTAL
45'H1S	1	\$1,540.00	\$561.85	\$697.81	\$2,799.66
VC7HDF-1	1	\$289.73	\$278.78	\$188.75	\$757.26
VG5HF	5	\$131.72	\$52.81	\$61.26	\$1,228.97
VG5AI	3	\$40.77	\$60.26	\$33.54	\$403.72
VM2-11S	1	\$34.05	\$100.57	\$44.69	\$179.31
VUM2-5-500	1	\$332.43	\$340.75	\$223.50	\$896.68
VM3-14	3	\$149.12	\$70.04	\$72.76	\$875.76
500 ALCNC	50	\$9.21	\$3.58	\$4.25	\$851.81
VUM600-500A	3	\$214.07	\$85.33	\$99.40	\$1,196.40
VUM6-7	3	\$68.92	\$56.88	\$41.77	\$502.70
					\$9,692.27

Costs for tap, primary metering and riser poles

\$79,561.25





FRANKLIN WATER PLANT AT SWITCH

Initial design provided by MTEMC



Kiewit

Kiewit Infrastructure South Co.
4800 North Point Parkway, Suite 100
Alpharetta, GA 30022

April 16, 2020

CP-KIEWIT-00014.00

To: Attn: Mr. Dan Harris

CDM Smith, Inc.
210 25th Avenue North
Suite 1102
Nashville, TN 37203

Reference: Franklin WRF Modifications & Expansion Project
COF Contract No. 2017-0264

Subject: MTEMC Permanent Power Relocation

Dear Mr. Harris,

Kiewit is hereby submitting a cost proposal for **MTEMC Permanent Power Relocation** in the amount of **Thirty Two Thousand Four Hundred Fourteen Dollars (\$32,414.00)**.

This proposal is for the additional duct bank excavation, bedding, encasement, and backfill of the electrical conduit and quazite pull boxes required to relocate the service drop for MTEMC. The original service drop location is being changed by MTEMC because of clearance issues with the overhead lines.

All wire will be pulled by MTEMC.

If you have any questions, please do not hesitate to contact me at (678) 794-2121.

Sincerely,

Steve Davis
Project Manager

cc: File
Michelle Hatcher



Change Proposal MTEMC Permanent Power

PREPARED BY: Corbin Coker

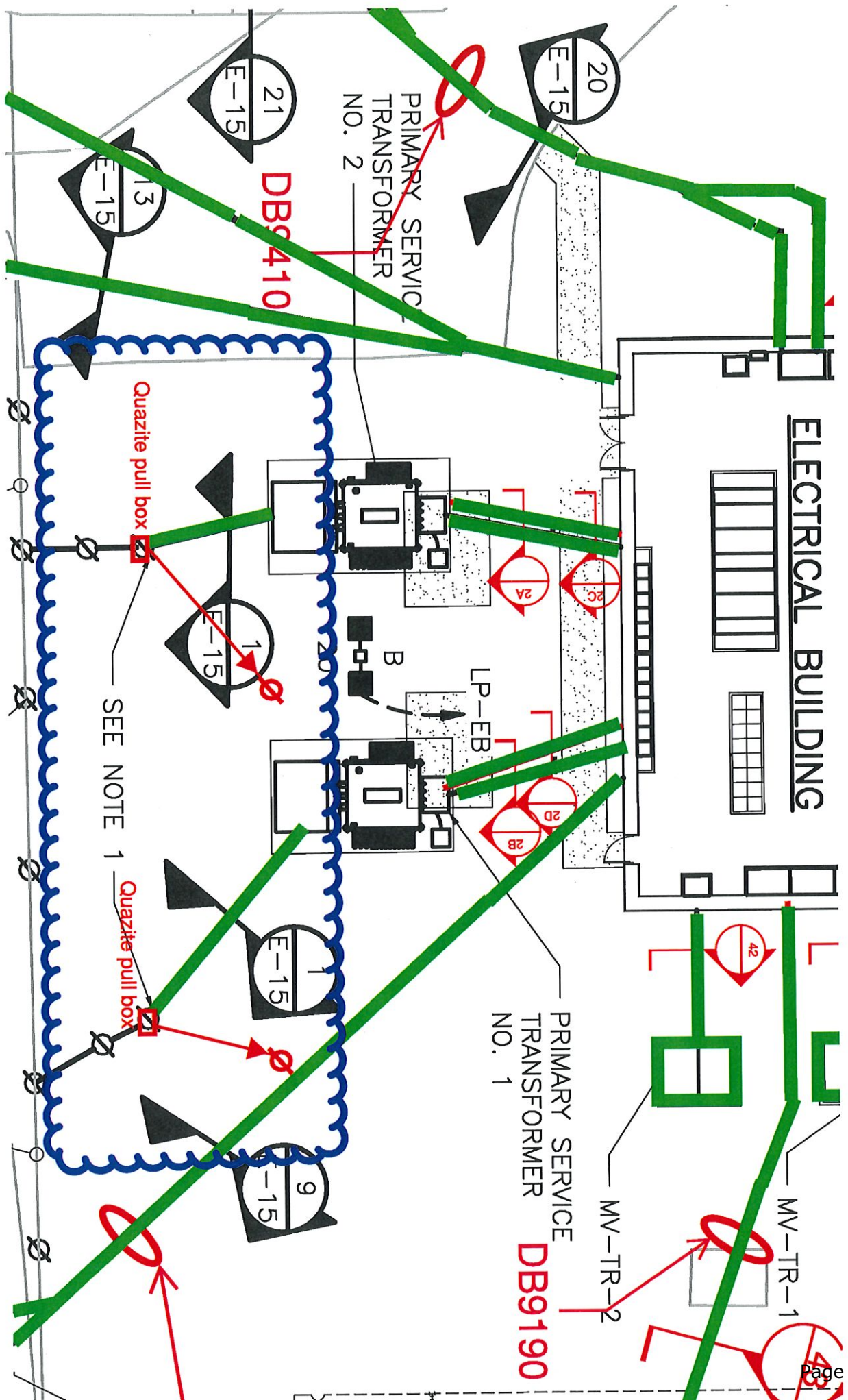
DESCRIPTION	QTY	UNIT	MH Per Unit	Total MH	DIRECT LABOR		INDIRECT LABOR		MATERIAL		CONST. EQUIPMENT		SUBCONTRACT		OTHER		TOTAL AMOUNT
					Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	
MTEMC Permanent Power																	
Excavation of Ductbank	40.50	CY	0.27	11		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	\$ -
Foreman	1.00	EA	2.70	3	\$ 61.04	\$ 185.01		\$ -		\$ -		\$ -		\$ -		\$ -	\$ 185.01
Operator	1.00	EA	2.70	3	\$ 39.86	\$ 107.76		\$ -		\$ -		\$ -		\$ -		\$ -	\$ 107.76
Crew (2 Laborers)	2.00	EA	2.70	5	\$ 36.13	\$ 195.35		\$ -		\$ -		\$ -		\$ -		\$ -	\$ 195.35
Bedding of Ductbank						\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	\$ -
Foreman	3.00	CY	0.44	1		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	\$ 20.14
Operator	1.00	EA	0.33	0	\$ 61.04	\$ 20.14		\$ -		\$ -		\$ -		\$ -		\$ -	\$ 13.15
Crew (2 Laborers)	1.00	EA	0.33	0	\$ 39.86	\$ 13.15		\$ -		\$ -		\$ -		\$ -		\$ -	\$ 23.85
Concrete Encasement	2.00	EA	0.33	1	\$ 36.13	\$ 23.85		\$ -		\$ -		\$ -		\$ -		\$ -	\$ -
Foreman						\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	\$ -
Operator	11.00	CY	0.61	7		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	\$ 102.39
Crew (2 Carpenters)	1.00	EA	1.68	2	\$ 61.04	\$ 102.39		\$ -		\$ -		\$ -		\$ -		\$ -	\$ 66.87
Backfill	1.00	EA	1.68	2	\$ 39.86	\$ 66.87		\$ -		\$ -		\$ -		\$ -		\$ -	\$ 176.17
Foreman	2.00	EA	1.68	3	\$ 52.51	\$ 176.17		\$ -		\$ -		\$ -		\$ -		\$ -	\$ -
Operator						\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	\$ -
Crew (2 Laborers)	29.50	CY	0.50	15		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	\$ 225.09
Foreman	1.00	EA	3.69	4	\$ 61.04	\$ 225.09		\$ -		\$ -		\$ -		\$ -		\$ -	\$ 146.98
Operator	1.00	EA	3.69	4	\$ 39.86	\$ 146.98		\$ -		\$ -		\$ -		\$ -		\$ -	\$ 266.46
Crew (2 Laborers)	2.00	EA	3.69	7	\$ 36.13	\$ 266.46		\$ -		\$ -		\$ -		\$ -		\$ -	\$ -
Office/Hand/Exc/Bed/Set/BF Quarzite Pull Boxes						\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	\$ -
Foreman	2.00	EA	4.67	9		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	\$ 142.53
Operator	1.00	EA	2.34	2	\$ 61.04	\$ 142.53		\$ -		\$ -		\$ -		\$ -		\$ -	\$ 108.46
Crew (2 Laborers)	1.00	EA	2.34	2	\$ 46.45	\$ 108.46		\$ -		\$ -		\$ -		\$ -		\$ -	\$ 168.73
Surveying/Layout/Asbuilts	2.00	EA	2.34	5	\$ 36.13	\$ 168.73		\$ -		\$ -		\$ -		\$ -		\$ -	\$ -
Materials						\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	\$ 184.32
Stone - CR610	2.00	HR	2.00	4	\$ 46.08	\$ 184.32		\$ -		\$ -		\$ -		\$ -		\$ -	\$ -
Stone - 57 Stone						\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	\$ -
Concrete - 2500PSI Utility Red	19.00	TN				\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	\$ 237.50
Equipment	35	TN				\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	\$ 621.00
Cat 335F L	11	CY				\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	\$ 1,419.00
Waikohind Roller- Wacker Neuson RT825C						\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	\$ -
F-250 Pickup Truck						\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	\$ -
Forklift	12.00	HR				\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	\$ 1,118.52
	4.00	HR				\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	\$ 118.28
	12.00	HR				\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	\$ 289.32
	2.00	HR				\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	\$ 120.00



Change Proposal MTEMC Permanent Power

PREPARED BY: Corbin Coker

DESCRIPTION	QTY	UNIT	MH Per Unit	Total MH	DIRECT LABOR		INDIRECT LABOR		MATERIAL		CONST. EQUIPMENT		SUBCONTRACT		OTHER		TOTAL AMOUNT
					Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	
Hydro Excavating around Existing Utilities	5.00	HR	1.00	5	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 230.00	\$ 1,150.00	\$ -	\$ -	\$ 1,150.00
Crew (1 Laborer/Spotter)	5.00	HR	1.00	5	\$ 36.13	\$ 180.65	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1.60	\$ 120.00	\$ -	\$ -	\$ 180.65
Remote Pipe	75.00	FT			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 100.00	\$ 200.00	\$ -	\$ -	\$ 200.00
Disposal	2.00	Load			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
WUGEL - Cost Proposal	1.00	EA			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 21,181.05	\$ 21,181.05	\$ -	\$ -	\$ 21,181.05
Trucking	8.00	HR			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 90.00	\$ 720.00	\$ -	\$ -	\$ 720.00
**Construction Equipment Ownership & Operating Costs are based on Blue Book FHWA Rates.																	
					\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
					\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
					\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
					\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
					\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
					\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
					\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
OTHER					\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
STS - small tools, consumables, safety equip, (5% of direct labor, plus 9.75% sales tax: Formula = Total Direct Labor Subtotal * .05 * 1.0925)	51	MHR			\$ 114.70	\$ -									\$ 2.36	\$ 120.43	\$ 120.43
TAX: (9.75% of Material, Equipment, Other)						\$ -				\$ 222.06		\$ 160.50				\$ 111.74	\$ 394.29
BOND (2% of total)																	\$ -
SUBTOTALS				51		\$ 2,408.60		\$ -		\$ 2,499.56		\$ 1,806.62		\$ 23,371.05		\$ 132.17	\$ 30,103.30
MARKUP %						15.00%		15.00%		15.00%		15.00%		5.00%		15.00%	\$ 2,195.59
SUBTOTALS WITH MARKUPS APPLIED						\$2,769.89				\$2,874.49		\$2,077.61		\$24,539.60		\$152.00	\$32,413.59
BOND																	\$ -
TOTAL																	\$32,414.00



Item	Description	Approx. Quantity	Unit of Measure	Unit Price	Total
1	TDOT 57 Stone	26,620.00	TN	\$ 18.00	\$ 479,160.00
2	TDOT Grade D	4,980.00	TN	\$ 12.50	\$ 62,250.00
3	Class A3 Rlp Rap	1,500.00	TN	\$ 21.00	\$ 31,500.00
4	Surge Stone	850.00	TN	\$ 13.00	\$ 11,050.00
5	Class A1 Rlp Rap	200.00	TN	\$ 21.00	\$ 4,200.00
6	2" to 3" Stone	350.00	TN	\$ 17.75	\$ 6,212.50
7	TDOT #4 Stone	200.00	TN	\$ 17.75	\$ 3,550.00
	Approximate Contract Total (without Taxes)				\$ 597,922.50
	Bond (0%)				\$ -

**INVOICE 1001523**

REMIT TO:
1136 2nd Ave. North
Nashville, TN 37208

SOLD TO:

KIEWIT INFRASTRUCTURE SOUTH CO
PO BOX 452500
OMAHA, NB 68145

SHIP TO:

WATER TREATMENT PLANT.

ORDERED BY:
TOM
9313194943

CUSTOMER	DATE	ORDER #	TERMS	PO #	LOT
1213	4/9/2020	180	NET 30	103925	

DESCRIPTION	QUANTITY	Ticket #	Price	Amount
2500 PSI CONCRETE	10.00	538182	101.00	1,010.00
COLOR UTILITY RED 1/2 DOS	10.00		28.00	280.00
2500 PSI CONCRETE	10.00	538185	101.00	1,010.00
COLOR UTILITY RED 1/2 DOS	10.00		28.00	280.00

\$129/CY

PRODUCT RECAP

20.00 25000
20.00 5001

2500 PSI CONCRETE
COLOR UTILITY RED 1/2 DOSAGE

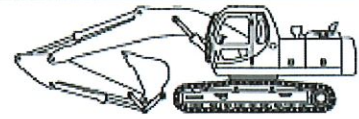
IF PAYMENT IS MADE BY 05/10/2020, DISCOUNT FOR INVOICE IS 40.00

TOTAL QUANTITY:	20.00	SUB TOTAL	2,580.00
		SALES TAX	251.56
		AMOUNT DUE	2,831.56

Rental Rate Blue Book®

Caterpillar 315F L

Crawler Mounted Hydraulic Excavators



Size Class:

16.1 - 19.0 MTons

Weight:

N/A

Configuration for 315F L

Bucket Capacity - Heaped	1 cu yd	Net Horsepower	97 hp
Operating Weight	36340 lbs	Power Mode	Diesel

Blue Book Rates

** FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs	FHWA Rate**
	Monthly	Weekly	Daily	Hourly	Hourly	Hourly
Published Rates	USD \$9,430.00	USD \$2,640.00	USD \$660.00	USD \$99.00	USD \$39.63	USD \$93.21
Adjustments						
Region (100%)	-	-	-	-		
Model Year (2020: 100%)	-	-	-	-		
Adjusted Hourly Ownership Cost (100%)	-	-	-	-		
Hourly Operating Cost (100%)					-	
Total:	USD \$9,430.00	USD \$2,640.00	USD \$660.00	USD \$99.00	USD \$39.63	USD \$93.21

Non-Active Use Rates

	Hourly
Standby Rate	USD \$28.40
Idling Rate	USD \$64.27

Rate Element Allocation

Element	Percentage	Value
Depreciation (ownership)	37%	USD \$3,489.10/mo
Overhaul (ownership)	46%	USD \$4,337.80/mo
CFC (ownership)	10%	USD \$943.00/mo
Indirect (ownership)	6%	USD \$565.80/mo
Fuel (operating) @ USD 3.07	27%	USD \$10.69/hr

Revised Date: 1st half 2020

These are the most accurate rates for the selected Revision Date(s). However, due to more frequent online updates, these rates may not match Rental Rate Blue Book Print. Visit the Cost Recovery Product Guide on our Help page for more information.

The equipment represented in this report has been exclusively prepared for MICHAEL SHESTON
(Michael.Sheston@kiewit.com)

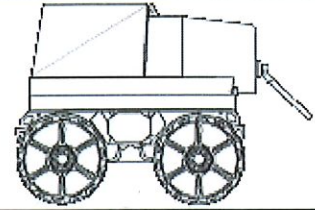
Rental Rate Blue Book®

April 16, 2020

Wacker Neuson RT82-SC (disc. 2013)

Trench Compactors

Size Class:
26 - 34 Inches
Weight:
3247 lbs


Configuration for RT82-SC (disc. 2013)

Drum Width **32.0 in** Net Horsepower **18.0 hp**
Number Of Drums **4.0** Power Mode **Diesel**

Blue Book Rates

** FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs	FHWA Rate**
	Monthly	Weekly	Daily	Hourly	Hourly	Hourly
Published Rates	USD \$3,225.00	USD \$905.00	USD \$225.00	USD \$34.00	USD \$11.25	USD \$29.57
Adjustments						
Region (100%)	-	-	-	-		
Model Year (2013: 100%)	-	-	-	-		
Adjusted Hourly Ownership Cost (100%)	-	-	-	-		
Hourly Operating Cost (100%)					-	
Total:	USD \$3,225.00	USD \$905.00	USD \$225.00	USD \$34.00	USD \$11.25	USD \$29.57

Non-Active Use Rates

Standby Rate **Hourly** USD \$8.43
Idling Rate USD \$20.56

Rate Element Allocation

Element	Percentage	Value
Depreciation (ownership)	32%	USD \$1,032.00/mo
Overhaul (ownership)	54%	USD \$1,741.50/mo
CFC (ownership)	7%	USD \$225.75/mo
Indirect (ownership)	7%	USD \$225.75/mo
Fuel (operating) @ USD 3.07	20%	USD \$2.24/hr

Revised Date: 1st half 2020

These are the most accurate rates for the selected Revision Date(s). However, due to more frequent online updates, these rates may not match Rental Rate Blue Book Print. Visit the Cost Recovery Product Guide on our Help page for more information.

The equipment represented in this report has been exclusively prepared for MICHAEL SHESTON
(Michael.Sheston@kiewit.com)

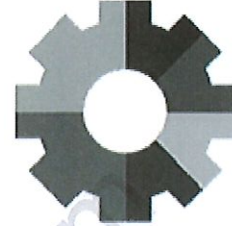
Rental Rate Blue Book®

April 16, 2020

Ford F-250 SD

On-Highway Light Duty Trucks

Size Class:
300 HP & Over
Weight:
N/A


Configuration for F-250 SD

Axle Configuration	4.0 X 4.0	Cab Type	Crew
Horsepower	300.0 hp	Power Mode	Gasoline
Ton Rating	3.0 / 4.0		

Blue Book Rates

** FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs	FHWA Rate**
	Monthly	Weekly	Daily	Hourly	Hourly	Hourly
Published Rates	USD \$900.00	USD \$255.00	USD \$64.00	USD \$10.00	USD \$19.00	USD \$24.11
Adjustments						
Region (100%)	-	-	-	-		
Model Year (2020: 100%)	-	-	-	-		
Adjusted Hourly Ownership Cost (100%)	-	-	-	-		
Hourly Operating Cost (100%)					-	
Total:	USD \$900.00	USD \$255.00	USD \$64.00	USD \$10.00	USD \$19.00	USD \$24.11

Non-Active Use Rates

	Hourly
Standby Rate	USD \$3.73
Idling Rate	USD \$20.16

Rate Element Allocation

Element	Percentage	Value
Depreciation (ownership)	54%	USD \$486.00/mo
Overhaul (ownership)	27%	USD \$243.00/mo
CFC (ownership)	7%	USD \$63.00/mo
Indirect (ownership)	12%	USD \$108.00/mo
Fuel (operating) @ USD 2.51	79%	USD \$15.05/hr

Revised Date: 1st half 2020

These are the most accurate rates for the selected Revision Date(s). However, due to more frequent online updates, these rates may not match Rental Rate Blue Book Print. Visit the Cost Recovery Product Guide on our Help page for more information.

The equipment represented in this report has been exclusively prepared for **MICHAEL SHESTON**
(Michael.Sheston@kiewit.com)

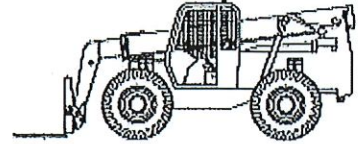
Rental Rate Blue Book®

September 24, 2019

Xtreme XR630

Telescoping Boom Rough Terrain Lift Trucks

Size Class:
4.0 - 4.4 MTons
Weight:
MT

Kiewit has XR1055 w/10,000 lb

Configuration for XR630
Capacity

Base Capacity 6000 lbs
Maximum Lift Height 30.5 ft
Power Mode Diesel

Horsepower
Maximum Reach

74 hp
221.0 in

Blue Book Rates

** FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs	FHWA Rate**
	Monthly	Weekly	Daily	Hourly	Hourly	Hourly
Published Rates	USD \$5,570.00	USD \$1,560.00	USD \$390.00	USD \$59.00	USD \$23.22	USD \$84.87
Adjustments						
Region (100%)	-	-	-	-		<i>\$60.00</i>
Model Year (2019: 100%)	-	-	-	-		
Adjusted Hourly Ownership Cost (100%)	-	-	-	-		
Hourly Operating Cost (100%)						
Total:	USD \$5,570.00	USD \$1,560.00	USD \$390.00	USD \$59.00	USD \$23.22	USD \$54.87

Non-Active Use Rates

	Hourly
Standby Rate	USD \$13.61
Idling Rate	USD \$38.03

Rate Element Allocation

Element	Percentage	Value
Depreciation (ownership)	30%	USD \$1,671.00/mo
Overhaul (ownership)	57%	USD \$3,174.90/mo
CFC (ownership)	6%	USD \$334.20/mo
Indirect (ownership)	7%	USD \$389.90/mo
Fuel (operating) @ USD 3.07	27%	USD \$6.38/hr

Revised Date: 2nd half 2019

These are the most accurate rates for the selected Revision Date(s). However, due to more frequent online updates, these rates may not match Rental Rate Blue Book Print. Visit the Cost Recovery Product Guide on our Help page for more information.

The equipment represented in this report has been exclusively prepared for MICHAEL SHESTON
(Michael.Sheston@kiewit.com)

** Equipment Watch does not have Xtreme XR1055 10k lb capacity. Used \$60/hr FHWA Rate*

Schedule of Values (SOV)

Item	Description	Approx. Quantity	Unit of Measure	Unit Price	Total
1	Hydrovac Unit and Operator ST	57	HR	\$ 230.00	\$ 13,110.00
2	Hydrovac Unit and Operator OT	10	HR	\$ 265.00	\$ 2,650.00
3	Additional Labor if needed	0	HR	\$ 80.00	-
4	Mobilization/Demobilization	0	HR	\$ -	-
5	Disposal	0	Per Load	\$ 100.00	-
6	Remote Pipe, if applicable	0	Per Foot	\$ 1.60	-
7	Support Truck, if applicable	0	Per Day	\$ 95.00	-
8	Overnight Stay, if needed	0	Per Day	\$ 120.00	-
	Estimated Total				\$ 15,760.00



**WAYNE J.
GRIFFIN ELECTRIC
INC.**

April 3, 2020

VIA EMAIL ONLY: Steven.Davis1@kiewit.com

Mr. Steven Davis, Project Manager
Kiewit
135 Claude Yates Drive
Franklin, TN 37064

RE: Job #6198 - Franklin WRF Mods and Exp, Franklin, TN
Proposal #25

Dear Mr. Davis:

Wayne J. Griffin Electric, Inc. ("WJGEI") proposes to modify our contract to perform the following lump sum revisions to our work per our enclosed detailed backup:

DESCRIPTION OF WORK:

This proposal is for the additional ductbank conduit and quazite boxes required to relocate the service drop for MTEMC. The original service drop location is being changed by MTEMC because of clearance issues with the overhead lines.

This proposal is for raceways only, digging to be performed by Kiewit, and all wire will be pulled by MTEMC.

Material	\$	9,677.86
Labor		8,646.98
Overhead & Profit		2,748.73
Subtotal	\$	21,073.57
Bond		107.48
Total	\$	21,181.05

This is a lump sum forward looking estimate of the above-noted change to our scope of work. This estimate represents a price we are willing to accept to assume the cost risk of this change to our ongoing work given the information provided to us.

Corporate Headquarters:

116 Hopping Brook Road
Holliston, MA 01746
Phone: (508) 429-8830
Fax: (508) 429-7825

Regional Offices:

296 Cahaba Valley Parkway
Pelham, AL 35124
Phone: (205) 733-8848
Fax: (205) 733-8107

1950 Evergreen Boulevard
Suite 300
Duluth, GA 30096
Phone: (678) 417-9377
Fax: (678) 417-9373

2310 Presidential Drive
Suite 101
Durham, NC 27703
Phone: (919) 627-9724
Fax: (919) 627-9727

9801-C Southern Pine Boulevard
Charlotte, NC 28273
Phone: (704) 522-3851
Fax: (704) 522-3856

Mr. Steven Davis
April 3, 2020
Page 2

The labor and material prices contained in this proposal are based upon vendor/subcontractor quotes (if noted) and/or electrical industry pricing guides such as NECA, Trade Service, or R.S. Means, which guides are widely used and accepted in the construction industry to facilitate timely and consistent change order pricing. This estimate is offered for your review, approval and acceptance.

The value included in this proposal does not include any amounts for extended contract duration, overtime, changes in the sequence of work, acceleration, disruptions, interference and/or impacts, and the right is expressly reserved to recover any and all of these related items prior to any final settlement of this contract. The working relationship between your company and ours shall be in accordance with our mutually agreed to contract form.

Wayne J. Griffin Electric, Inc. reserves the right to void this proposal after thirty (30) days from the date above.

If you have any questions regarding the above, please do not hesitate to contact me at (205) 733-8848 ext. 6175 or troberson@wjgei.com.

Very truly yours,

WAYNE J. GRIFFIN ELECTRIC, INC.



Timothy R. Roberson
Project Manager

TRR/jmr

ACKNOWLEDGMENT: The contract modifications stated for the above proposal are acceptable for the work to be performed. The value of the work completed to the date of the next requisition may be billed on that requisition.

Date: _____ Authorized Signature: _____

cc: Corbin Coker, Engineer, Kiewit, Corbin.Coker@Kiewit.com
Calvin Mize, Regional Manager, Wayne J. Griffin Electric, Inc.
Sarah Moore, Project Engineer, Wayne J. Griffin Electric, Inc.



116 Hopping Brook Road, Holliston, MA 01746
(508) 429-8830 FAX (508) 429-9251

CCN#: P-0025, Additional MTEM Service Requireme
Date: 4/2/2020
Project Name: Franklin WRF Mods and Exp
Project Number: 06198-00-18
Page Number: 1

Work Description

This proposal is for the additional ductbank conduit and quazite boxes required to relocate the service drop for MTEM. The original service drop location is being changed by MTEM because of clearance issues with the overhead lines. This proposal is for raceways only, digging to be performed by Kiewit, and all wire will be pulled by MTEM.

Itemized Breakdown

Description	Qty	Net Price	UM	Materials (\$)	Labor	Total Hours
As Builts	0.00	0.0000	HRS	0.000	0.000	2.530
Cleanup	0.00	0.0000	HRS	0.000	0.000	2.530
Tools	0.00	0.0000	HRS	0.000	0.000	3.030
Field Safety/JHA	0.00	0.0000	HRS	0.000	0.000	2.530
Supervision	0.00	0.0000	HRS	0.000	0.000	5.050
Project Controls	0.00	0.0000	HRS	0.000	0.000	5.050
QUAZITE BOXES 30X48	2.00	1,551.9300		3,103.860	4.000	8.000
6" PVC SCH 80 CONDUIT	160.00	7.8979	FT	1,263.660	0.310	49.600
6 PVC SCH 80 90-DEG ELBOW	12.00	407.9808	EA	4,895.770	1.250	15.000
6" PVC COUPLING SCHEDULE 40	6.00	9.2517	EA	55.510	1.250	7.500
6 PVC 5-DEG COUPLING	6.00	37.9850	EA	227.910	1.250	7.500
PVC CEMENT-QUART	2.00	15.4100	EA	30.820	0.200	0.400
6" X 2" PVC BASE SPACER	40.00	1.8832	EA	75.330	0.200	8.000
STEEL TIE WIRE	500.00	0.0500	FT	25.000	0.010	5.000
Totals				9,677.86		121.72
Tax				0.00		
Materials with				9,677.86		

Summary

	Itemized Breakdown Total		9,677.86
Elect. Journeyman	(121.7200 hrs @ \$71.04 / hr)	8,646.99	
			8,646.99
Overhead & Profit	(\$18,324.84 @ 15.00%)	2,748.73	
		2,748.73	
Bond	(\$21,073.57 @ 0.51%)	107.48	
		107.48	
			2,856.21
Total			\$21,181.05

Schedule of Values

Item	Description	Approx. Quantity	Unit of Measure	Unit Price	Total
1	Tri-Axle Dump Trucks	3,485	HR	\$ 90.00	\$ 313,650.00
				\$ -	\$ -
	Approximate Agreement Total (including Taxes)				\$ 313,650.00

CONSTRUCTION CHANGE AUTHORIZATION

TO: Mr. Steve Davis
Project Manager
Kiewit Water Facilities South
4405 International Blvd., NW,
Suite C-101
Norcross, Georgia 30093
(770) 940-8044

FROM: CDM Smith
210 25th Ave. N.
Suite 1102
Nashville, TN 37203
(615) 320-3161

DATE: March 31, 2020

PROJECT: City of Franklin, Tennessee
Franklin WRF Modifications & Expansion Project

CCA 43
NUMBER:

CDM SMITH PROJ. NO.: 14915-231666

SUBJECT: RWP-MCC-A

CITY PROJECT NO.: 2017-0264

REFERENCE: (See Below)

DESCRIPTION: Rebuild existing RWP-MCC-A main breaker section generally in accordance with the proposal from Northeast Electrical Distributors date 3/10/2020 with the following clarifications;

- 1. New main circuit breaker to be the same type breaker provided for new RWP-MCC-B. Trip setting per Sh. E-41 and typical of RWP-MCC-B**
- 2. New section to include power monitor typical of the monitor being provided for RWP-MCC-B.**
- 3. Main breaker lugging to be suitable for the size and quantity of the conductors shown on Drawing E-41, which is three sets of 600 kcmil.**
- 4. New section to include surge protective device (SPD). Provide SPD per Drawing E-41. The SPD shall be same type and rating as the one being provided in new RWP-MCC-B.**
- 5. New section to be UL labeled at the conclusion of the work.**
- 6. All shutdowns required for this work to be coordinated in advance with plant staff.**

CDM SMITH:

CONTRACTOR

By:

By:

Date:

Date:

City of Franklin:

By:

Melvin H. Hatcher

Date:

6/26/20



Kiewit

Kiewit Infrastructure South Co.
4800 North Point Parkway, Suite 100
Alpharetta, GA 30022

June 18, 2019

To: Attn: Mr. Dan Harris

CCA-KIEWIT-00043.00

CDM Smith, Inc.
210 25th Avenue North
Suite 1102
Nashville, TN 37203

Reference: Franklin WRF Modifications & Expansion Project
COF Contract No. 2017-0264

Subject: Construction Change Authorization No. 043 RWP MCC-A Rebuild

Dear Mr. Harris,

Attached you will find Kiewit's cost proposal for **CCA RWP MCC-A Rebuild** in the amount of **Thirty-Nine Thousand Four Hundred and Four Dollars (\$39,404.00)**.

If you have any questions, please do not hesitate to contact me at (678) 794-2121.

Sincerely,

Steve Davis
Project Manager

cc: File
Michelle Hatcher



DATE: 6/18/2020

CCA NO.: 043 RWP MCC-A Rebuild

PREPARED BY: Corbin Coker

[illegible]



**WAYNE J.
GRIFFIN ELECTRIC
INC.**

June 17, 2020

VIA EMAIL ONLY: Steven.Davis1@kiewit.com

Mr. Steven Davis, Project Manager
Kiewit
135 Claude Yates Drive
Franklin, TN 37064

RE: Job #6198 - Franklin WRF Mods and Exp, Franklin, TN
Proposal #32, Supersedes Proposal #29

Dear Mr. Davis:

Wayne J. Griffin Electric, Inc. ("WJGEI") proposes to modify our contract to perform the following lump sum revisions to our work per our enclosed detailed backup:

DESCRIPTION OF WORK:

The below pricing is for Rockwell Automation to provide a new Main Section for RWP-MCC-A in the Reclaimed Water Pump Station. The new section will be installed by WJGEI.

The lead time for the new MCC section would be six (6) weeks once released to Rockwell Automation.

The Install will have to be coordinated with the Owners, CDM, and Kiewit as the entire Reclaimed Water Pump Station will need to be down to make the changes to the MCC. WJGEI projects being able to change the section out in a 10-hour timeframe, and a separate shutdown may be required for testing and inspection.

This price does not include a generator. If temporary generator power will be required to keep the pumps operational during the changeover then, additional pricing and coordination will be required.

Material	\$ 27,903.43
Labor	4,729.01
Overhead & Profit	4,894.87
Subtotal	\$ 37,527.31

Corporate Headquarters:
116 Hopping Brook Road
Holliston, MA 01746
Phone: (508) 429-8830
Fax: (508) 429-7825

Regional Offices:

296 Cahaba Valley Parkway
Pelham, AL 35124
Phone: (205) 733-8848
Fax: (205) 733-8107

1950 Evergreen Boulevard
Suite 300
Duluth, GA 30096
Phone: (678) 417-9377
Fax: (678) 417-9373

2310 Presidential Drive
Suite 101
Durham, NC 27703
Phone: (919) 627-9724
Fax: (919) 627-9727

9801-C Southern Pine Boulevard
Charlotte, NC 28273
Phone: (704) 522-3851
Fax: (704) 522-3856

Mr. Steven Davis
June 17, 2020
Page 2

Bond	191.39
Total	\$ 37,718.70

This is a lump sum forward looking estimate of the above-noted change to our scope of work. This estimate represents a price we are willing to accept to assume the cost risk of this change to our ongoing work given the information provided to us. The labor and material prices contained in this proposal are based upon vendor/subcontractor quotes (if noted) and/or electrical industry pricing guides such as NECA, Trade Service, or R.S. Means, which guides are widely used and accepted in the construction industry to facilitate timely and consistent change order pricing. This estimate is offered for your review, approval and acceptance.

The value included in this proposal does not include any amounts for extended contract duration, overtime, changes in the sequence of work, acceleration, disruptions, interference and/or impacts, and the right is expressly reserved to recover any and all of these related items prior to any final settlement of this contract. The working relationship between your company and ours shall be in accordance with our mutually agreed to contract form.

Wayne J. Griffin Electric, Inc. reserves the right to void this proposal after thirty (30) days from the date above.

If you have any questions regarding the above, please do not hesitate to contact me at (205) 733-8848 ext. 6175 or troberson@wjgei.com.

Very truly yours,

WAYNE J. GRIFFIN ELECTRIC, INC.



Timothy R. Roberson
Project Manager

TRR/jmr

ACKNOWLEDGMENT: The contract modifications stated for the above proposal are acceptable for the work to be performed. The value of the work completed to the date of the next requisition may be billed on that requisition.

Date: _____ Authorized Signature: _____

cc: Corbin Coker, Engineer, Kiewit, Corbin.Coker@Kiewit.com
Calvin Mize, Regional Manager, Wayne J. Griffin Electric, Inc.

Mr. Steven Davis
June 17, 2020
Page 3



116 Hopping Brook Road, Holliston, MA 01746
(508) 429-8830 FAX (508) 429-9251

CCN#: P-0032, RWP-MCC-A Main Replacement Price
Date: 6/17/2020
Project Name: Franklin WRF Mods and Exp
Project Number: 06198-00-18
Page Number: 1

Work Description

The below pricing is for Rockwell Automation to provide a new Main Section for RWP-MCC-A in the Reclaimed Water Pump Station. The new section will be installed by Wayne J Griffin Electric.

The lead time for the new MCC section would be 6 weeks once released to Rockwell Automation.

The install will have to be coordinated with the Owners, CDM, and Kiewit as the entire Reclaimed Water Pump Station will need to be down to make the changes to the MCC. Griffin Electric projects being able to change the section out in an 10 hour timeframe, and a separate shutdown may be required for testing and inspection.

This price does not include a generator. If temporary generator power will be required to keep the pumps operational during the changeover then, additional pricing and coordination will be required.

Itemized Breakdown

Description	Qty	Net Price	UM	Materials (\$)	Labor	Total Hours
As Builts	0.00	0.0000	HRS	0.000	0.000	1.380
Cleanup	0.00	0.0000	HRS	0.000	0.000	1.380
Tools	0.00	0.0000	HRS	0.000	0.000	1.660
Field Safety/JHA	0.00	0.0000	HRS	0.000	0.000	1.380
Supervision	0.00	0.0000	HRS	0.000	0.000	2.760
Project Controls	0.00	0.0000	HRS	0.000	0.000	2.760
ROCKWELL QUOTE	1.00	26,200.0000	LO	26,200.000	0.000	0.000
HOURS TO INSTALL NEW SECTION	48.00	0.0000	EA	0.000	1.000	48.000
BURNDY AYPO 600	12.00	72.7100	EA	872.520	0.500	6.000
600 MCM XHHW COPPER WIRE	24.00	34.6212	FT	830.910	0.052	1.248
Totals				27,903.43		66.57
Tax				0.00		
Materials with				27,903.43		

Summary

	Itemized Breakdown Total	27,903.43
Elect. Journeyman	(66.5680 hrs @ \$71.04 / hr)	4,728.99
		4,728.99
Overhead & Profit	(\$32,632.44 @ 15.00%)	4,894.87
		4,894.87
Bond	(\$37,527.31 @ 0.51%)	191.39
		191.39
		5,086.26
Total		\$37,718.70

Northeast Electrical Distributors
632 Cambridge Street
Worcester, MA 01610
Email: andrew.powers@needco.com

Date: 6/10/2020
Telephone: (508) 713-4010
Fax: (508) 754-3712

Bill of Material

**FRANKLIN, TN WRF IMPROVEMENTS
RWP-MCC-A NEW MAIN BREAKER SECTION**

Proposal #: 25342646 Rev.2

Wayne J. Griffin Electric, Inc Attn: Jim Boudreau

We are pleased to offer the following quotation, based on our interpretation of the Plans and Specifications provided.
Only the items listed are included in the price. You are responsible to verify NEED's interpretation of your plans and specs, and acceptability of items quoted as substitutes. Please review the Bill of Material for accuracy.

Item#	Qty	Designation	Description
1	2	RWP-MCC-A REPLACEMENT MAIN BREAKER SECTION	Allen Bradley Motor Control Center Section Includes 1200A Main Breaker with Kirk Lock Coordinated with the Kirk Lock provided in RWP-MCC-B New Section will be 3-Phase/4-Wire with Neutral Bus and Neutral Connection Plate (NCP) in Bottom TOP Wireway Added Power Monitor Integral to Main Breaker Unit Added Top Hat Pull Box & Lugs to Accommodate 600MCM Cables Changed to Bottom Feed with 500MCM lugs Neutral cables will need to be extended in the field with NCP on TOP. Added SPD to accommodate new configuration

MCC Section Price: **\$30,800.00**
Deduct Previous Budget for Field Modification: **-\$4,600.00**
TOTAL Change Order Price: \$26,200.00

NEED Standard Terms and Conditions of Sale apply. Payment Terms - NET 30 days. **FOB: Destination (Jobsite).**

Freight prepaid and allowed via common carrier. Tax NOT included. ALL ITEMS ARE SUBJECT TO APPROVAL. Quote is valid for 30 days. Shipping dates are manufacturer's estimates and not guaranteed. A manufacturer's warranty may apply, but NEED has no liability at all above the price of goods included in any claim, or for any labor, installation or other associated costs, or for any consequential, liquidated or incidental damages.

Items NOT included unless specifically listed in BOM above:

Spare parts, test reports, short circuit / protection studies, field testing startup or training, seismic calculations, fuses, and transformer lugs/terminations.

Additional on-site Start-Up/Commissioning Services are offered on an hourly basis at the start-up service rate in effect at the time the service is provided. The standard (Monday - Friday, first 8 hours/day) field service rate is the rate shown below plus all travel and living expenses. Overtime (in excess of 8 hours/day) and Saturday (all hours) rates are one and one-half times the stated standard field service rate. Sunday and Holiday (all hours) rates are two times the stated standard field service rate. Travel time to and from the jobsite is billed at the stated standard field service rate. Transportation, auto rental, lodging, meals, phone, and miscellaneous expenses are billed at cost plus a 10% administrative handling fee. Auto mileage (local service) is billed at \$0.75/Mile. The minimum billing charge for field service work is four hours at the appropriate base rate plus expenses.

Current Standard Labor Rate: **\$290.00 per Straight Time Hour**
Current Standard Travel Rate: **\$245.00 per Straight Time Hour**

Thank You,

Andrew Powers

REQUEST FOR CONSTRUCTION CONTRACT CHANGE CHANGE ORDER NO. 4

City of Franklin
Engineering Office
109 Third Avenue South
Franklin, Tn 37064

Contract Number: 2017-0264
Project Name: Water Reclamation Facility
Modifications & Expansion

Background

The Board of Mayor and Alderman passed a resolution to award a contract on July 10, 2018 for the Franklin Water Reclamation Facility Modifications and Expansion Project to Kiewit Infrastructure South Co., (Kiewit), contingent upon approval by the State Revolving Fund (SRF) Program, which was received on August 23, 2018. The amount of the contract entered into by the City of Franklin and Kiewit was for \$132,890,000.00 (which included an Owner contingency of \$4,000,000). A substantial completion date of February 20, 2022, and a final completion date of May 26, 2022 were requirements in the contract.

The Franklin Water Reclamation Facility Modifications and Expansion Project included, among other scope, construction of a new headworks facility, an equalization basin, odor control systems, two ultraviolet disinfection systems, an alum storage and feed system, an electrical building, modifications to the biological nutrient removal facilities, the reclaimed water pump station, return sludge pump station and RAS/WAS pump station, construction of a new solids treatment system, upgrades to the instrumentation and control system, installation of new yard piping and demolition.

Reason for Change Order:

During the course of the project to date, the need for various changes to Kiewit's scope became apparent to include work not captured in the original contract, changes due to alternate items of equipment proposed by Kiewit, or to realize savings to the City of Franklin. Those changes were memorialized in Construction Change Authorizations (CCAs), Contractor Change Proposals (CPs) or responses to Requests for Proposal (RFPs) as shown on Attachment A. The specific language of the scope changes is detailed in the CCA/CP/RFP documents

Attachments (List documents supporting change):

Attachment A – CCA/RFP/CP Summary Sheet

CCA No. 6 with Contractor proposal
CCA No. 18.1 with Contractor proposal
CCA No. 13 with Contractor proposal
CCA No. 21 with Contractor proposal
CP No. 14 with Contractor proposal
CCA No. 27 with Contractor proposal
CCA No. 7 (rev.) with Contractor proposal
CCA No. 30 with Contractor proposal
CCA No. 31 with Contractor proposal
CCA No. 23 with Contractor proposal

CCA No. 11 with Contractor proposal
CCA No. 37 with Contractor proposal
CP No. 6
CP No. 19
CP No. 20
CP No. 16
CP No. 23
CCA No. 36 with Contractor proposal
CCA No. 46 with Contractor proposal
CCA No. 10 with Contractor proposal
CP No. 11
CP No. 12
CCA No. 19 with Contractor proposal
CP No. 26
CCA No. 43 with Contractor proposal

CHANGE IN CONTRACT PRICE:	
Original Contract Price:	
	\$132,890,000.00
Net Increase in Contract Price From Previous Change Orders:	
	\$87,021.00
Contract Price Prior to This Change Order:	
	\$132,977,021.00
Net Increase or <Decrease> of This Change Order:	
	\$00.00
Contract Price with All Approved Change Orders:	
	\$132,977,021.00

CHANGE IN CONTRACT TIMES	
Original Contract Times	
Substantial Completion Date	2/20/2022
Final Completion Date	5/26/2022
Net Change From Previous Change Orders	
Substantial Completion	0 Days
Final Completion	0 Days
Contract Times Prior to This Change	
Substantial Completion Date	2/20/2022
Final Completion Date	5/26/2022
Increase in Time This Change Order	
Substantial Completion	-0- Days
Final Completion	-0- Days
Contract Times with All Approved Change Orders	
Substantial Completion Date	2/20/2022
Final Completion Date	5/26/2022

Now, Therefore, Kiewit Infrastructure South Co., hereby agrees to this Change Order, consisting of the above mentioned schedule changes, and agrees that this Change Order is hereby made a part of the original contract and will be performed by this Contractor in accordance with specifications thereof, and that the original contract remains in full force and effect, except in so far as specifically modified by this Change Order.

RECOMMENDED FOR APPROVAL BY:

ENGINEER

Name: Daniel A. Harris Name: Brian Goodwin
Signature:  Signature: _____
Date: 7/7/20 Date: _____

CITY PROJECT MANAGER

CITY WATER MANAGEMENT DIRECTOR

Name: Michelle Hatcher
Signature: _____
Date: _____

ACCEPTED BY CONTRACTOR:

Name: Tom Trimble Name: _____
Title: Vice President Title: _____
Signature:  Signature: _____
Date: 7/7/2020 Date: _____

APPROVED BY OWNER:

Attachment A
CP/RFP/CP Summary

CCA Number	RFP Number	CP Number	Description	Cost	Time Extension	Date Sent to SRF for Review	Date Approved by SRF
6			FACP at Headworks	\$ 31,168.00	0	4/21/20	5/29/20
18.1			BNR2 Aerator New Gearbox	\$ 94,732.00	0	1/14/20	2/14/20
13			Sump at Solids elevator pit	\$ 6,016.00	0	2/24/20	2/28/20
21			Yard piping elevation revisions	\$ (1,841.00)	0	2/24/20	3/12/20
		14	Delete drywell at Solids	\$ (4,320.00)	0	3/13/20	3/20/20
27			Delete flared castings, add vortex breakers at Headworks	\$ (13,286.00)	0	3/13/20	3/20/20
7 (rev.)			Additional valve tagging	\$ 19,564.00	0	3/24/20	3/24/20
30			Wall mounted FDC at Solids	\$ (2,929.00)	0	6/8/20	6/9/20
31			Delete one automatic sampler	\$ (9,376.00)	0	3/3/20	3/24/20
23			Additional 125hp reclaimed water pump	\$ 137,822.00	0	3/24/20	3/24/20
11			Alum Facility revisions	\$ 65,899.00	0	3/24/20	3/25/20
37			Monorail 1 revisions	\$ (3,544.00)	0	4/21/20	5/6/20
		6	Access road overexcavation	\$ 53,555.00	0	4/21/20	5/6/20
		19	Duct bank reroute	\$ (28,662.00)	0	5/14/20	5/15/20
		20	Exterior drop at 20" FEQ tie-in manhole	\$ 12,469.00	0	5/26/20	5/29/20
		16	Additional stone at Digesters	\$ 39,110.00	0	6/3/20	6/3/20
		23	Solids floor drain revisions	\$ 2,384.00	0	6/8/20	6/9/20
36			Demo existing Influent Pump Station	\$ 33,891.00	0	6/9/20	6/12/20
46			Aerator 2C removal & inspection	\$ 13,627.00	0	5/27/20	5/29/20
10			UV structure modifications	\$ 14,833.00	0	2/7/20	2/10/20
		11	Power for motor operated valves	\$ 5,416.00	0	2/7/20	2/10/20
		12	Progressive cavity pump redesign	\$ 1,963.00	0	2/7/20	2/10/20
19			Solids floor and wall penetration revisions	\$ 11,078.00	0	2/7/20	2/10/20
		26	Increase to Allowance Item 8	\$ 169,975.25	0	6/9/20	6/23/20
43			Rebuild ex. MCC-RWP-A	\$ 39,404.00	0	6/23/20	6/23/20
Total Change				\$ 688,948.25			
Owner's Contingency Amount				\$ 4,000,000.00			
Remaining Owner's Contingency				\$ 3,311,051.75			
Total Time Extension (Calendar Days)					0		

CONSTRUCTION CHANGE AUTHORIZATION

TO: Mr. Steve Davis
Project Manager
Kiewit Water Facilities South
4405 International Blvd., NW,
Suite C-101
Norcross, Georgia 30093
(770) 940-8044

FROM: CDM Smith
210 25th Ave. N.
Suite 1102
Nashville, TN 37203
(615) 320-3161

DATE: April 8, 2019

PROJECT: City of Franklin, Tennessee
Franklin WRF Modifications & Expansion Project

CCA NUMBER: 006 **CDM SMITH PROJ. NO.:** 14915-231666

SUBJECT: Headworks FACP **CITY PROJECT NO.:** 2017-0264

REFERENCE: N/A

DESCRIPTION: In Section 16720 Fire Alarm System, Paragraph 1.01.A, in the first sentence, after the words "Solids Processing Building", add the words "and Headworks Facility". Locate the FACP in the northeast corner of the Electrical Room at the Headworks Facility. Provide a 3/4"C., 2#12 & 1#12G from the FACP to Panelboard LP-HW. Use a SPARE 20A/1P Circuit Breaker in Panelboard LP-HW for the FACP. Provide a 3/4"C., 2#14 & 1#12G from the FACP to PLC-1A. Provide a 1"C., W/WIRING PER MFR from the FACP to TTC-EB. The fire alarm system shall interface with smoke detectors (ref. sh. H-2) in the building per 15500-2.20-D-4. Wiring between the duct smoke detector and the fire alarm system to be by the fire alarm system supplier per 15500-2.20-N-10-h. Provide a proposal for Engineer review prior to proceeding with the work.

CDM SMITH:

By: 
Date: 6/25/20

CONTRACTOR:

By: 
Date: 6/25/20

City of Franklin:

By: Debbie Hatcher

Date: 06/05/20



Kiewit Infrastructure South Co.
4800 North Point Parkway
Suite 100
Alpharetta, GA 30022

January 9, 2020

To: Attn: Mr. Dan Harris

GC-CDM-00024.00

CDM Smith, Inc.
210 25th Avenue North
Suite 1102
Nashville, TN 37203

Reference: Franklin WRF Modifications & Expansion Project
COF Contract No. 2017-0264

Subject: Construction Change Authorization No. 006 – Headworks FACP

Dear Mr. Harris,

Kiewit is hereby submitting a cost proposal for Construction Change Authorization No. 006 – Headworks FACP in the amount of **Thirty-One Thousand One Hundred Sixty-Eight (31,168)**. The proposal includes adding a Fire Alarm System to the Headworks Building in accordance with CCA-006 and the proposal dated December 27, 2019 from Wayne J. Griffin Electric, Inc. The Fire Alarm system will interface with the three (3) smoke duct detectors in the HVAC drawings and will have controls conduit and wire back to PLC-1A and the TTC-EB.

If you have any questions, please do not hesitate to contact me at (678) 794-2121.

Sincerely,

Steve Davis
Project Manager

cc: File
Michelle Hatcher
Brian Goodwin

DATE: 1/6/20

PREPARED BY: Michael Sheston

[illegible]



WAYNE J.
GRIFFIN ELECTRIC
INC.

December 27, 2019

VIA EMAIL ONLY: Steven.Davis1@kiewit.com

Mr. Steven Davis, Project Manager
Kiewit
135 Claude Yates Drive
Franklin, TN 37064

RE: Job #6198 - Franklin WRF Mods and Exp, Franklin, TN
Proposal #18, Supersedes Proposal #16

Dear Mr. Davis:

Wayne J. Griffin Electric, Inc. ("WJGEI") proposes to modify our contract to perform the following lump sum revisions to our work per our enclosed detailed backup:

DESCRIPTION OF WORK:

This proposal is to add a Fire Alarm System to the Headworks Building, per the description in CCA-006. The Fire Alarm system will interface with the three (3) smoke duct detectors in the HVAC drawings and will have controls conduit and wire back to PLC-1A and the TTC-EB.

Material	\$	22,118.57
Tax on Materials		208.89
Labor		5,090.54
Overhead & Profit		2,115.10
Subtotal	\$	29,533.10
Bond		150.62
Total	\$	29,683.72

This is a lump sum forward looking estimate of the above-noted change to our scope of work. This estimate represents a price we are willing to accept to assume the cost risk of this change to our ongoing work given the information provided to us.

Corporate Headquarters:

116 Hopping Brook Road
Holliston, MA 01746
Phone: (508) 429-8830
Fax: (508) 429-7825

Regional Offices:

296 Cahaba Valley Parkway
Pelham, AL 35124
Phone: (205) 733-8848
Fax: (205) 733-8107

1950 Evergreen Boulevard
Suite 300
Duluth, GA 30096
Phone: (678) 417-9377
Fax: (678) 417-9373

2310 Presidential Drive
Suite 101
Durham, NC 27703
Phone: (919) 627-9724
Fax: (919) 627-9727

9801-C Southern Pine Boulevard
Charlotte, NC 28273
Phone: (704) 522-3851
Fax: (704) 522-3856

Mr. Steven Davis
December 27, 2019
Page 2

The labor and material prices contained in this proposal are based upon vendor/subcontractor quotes (if noted) and/or electrical industry pricing guides such as NECA, Trade Service, or R.S. Means, which guides are widely used and accepted in the construction industry to facilitate timely and consistent change order pricing. This estimate is offered for your review, approval and acceptance.

The value included in this proposal does not include any amounts for extended contract duration, overtime, changes in the sequence of work, acceleration, disruptions, interference and/or impacts, and the right is expressly reserved to recover any and all of these related items prior to any final settlement of this contract. The working relationship between your company and ours shall be in accordance with our mutually agreed to contract form.

Wayne J. Griffin Electric, Inc. reserves the right to void this proposal after thirty (30) days from the date above.

If you have any questions regarding the above, please do not hesitate to contact me at (205) 733-8848 ext. 6175 or troberson@wjgei.com.

Very truly yours,

WAYNE J. GRIFFIN ELECTRIC, INC.



Timothy R. Roberson
Project Manager

TRR/jmr

ACKNOWLEDGMENT: The contract modifications stated for the above proposal are acceptable for the work to be performed. The value of the work completed to the date of the next requisition may be billed on that requisition.

Date: _____ Authorized Signature: _____

cc: Corbin Coker, Engineer, Kiewit, Corbin.Coker@Kiewit.com
Calvin Mize, Regional Manager, Wayne J. Griffin Electric, Inc.
Sarah Moore, Project Engineer, Wayne J. Griffin Electric, Inc.



116 Hopping Brook Road, Holliston, MA 01746
(508) 429-8830 FAX (508) 429-9251

CCN#: P-0018, CCA-006 Headworks Fire Alarm
Date: 12/23/2019
Project Name: Franklin WRF Mods and Exp
Project Number: 06198-00-18
Page Number: 1

Work Description

This proposal is to add a Fire Alarm System to the Headworks Building, per the description in CCA-006. The Fire Alarm system will interface with the 3 smoke duct detectors in the HVAC drawings and will have controls conduit and wire back to PLC -1A and the TTC-EB.

Itemized Breakdown

Description	Qty	Net Price	UM	Materials (\$)	Labor	Total Hours
As Builts	0.00	0.0000	HRS	0.000	0.000	1.490
Cleanup	0.00	0.0000	HRS	0.000	0.000	1.490
Tools	0.00	0.0000	HRS	0.000	0.000	1.780
Field Safety/JHA	0.00	0.0000	HRS	0.000	0.000	1.490
Supervision	0.00	0.0000	HRS	0.000	0.000	2.970
Project Controls	0.00	0.0000	HRS	0.000	0.000	2.970
SIEMENS QUOTE	1.00	19,976.0000	LO	19,976.000	0.000	0.000
3/4" ALUMINUM CONDUIT	278.00	2.7374	FT	761.000	0.055	15.290
3/4" ALUMINUM 90D ELBOW	14.00	30.0600	EA	420.840	0.300	4.200
3/4" ALUM COUPLING	54.00	10.6500	EA	575.100	0.300	16.200
3/4 MYERS THREADED GRD HUB	8.00	23.7275	EA	189.820	1.100	8.800
#14 XHHW COPPER WIRE	80.00	0.2041	FT	16.330	0.006	0.480
#12 XHHW COPPER WIRE	61.00	0.2772	FT	16.910	0.007	0.427
14 WIRE TERMINATION LBR	4.00	0.0000	EA	0.000	0.140	0.560
12 WIRE TERMINATION LBR	8.00	0.0000	EA	0.000	0.160	1.280
1/4 X 1 1/4" FENDER WASHER (SS)	42.00	0.8900	EA	37.380	0.001	0.050
1/4-20 x 1" MACHINE SCREWS (SS)	42.00	0.8900	EA	37.380	0.070	2.940
1/4 DROP IN ANCHOR (SS)	42.00	1.7712	EA	74.390	0.180	7.560
3/4" RIGID ONE HOLE STRAP	42.00	0.3195	EA	13.420	0.040	1.680
Totals				22,118.57		71.66
Tax				208.89		
Materials with				22,327.46		

Summary

	Itemized Breakdown Total	22,327.46
Elect. Journeyman	(71.6574 hrs @ \$71.04 / hr)	5,090.54
		5,090.54
Subcontractor Mark up	(\$19,976.00 @ 5.00%)	998.80
Overhead & Profit	(\$7,442.00 @ 15.00%)	1,116.30
		2,115.10
Bond	(\$29,533.10 @ 0.51%)	150.62
		150.62
		2,265.72
Total		\$29,683.72



Parkview Towers
210 25th Avenue North, Suite 1102
Nashville, Tennessee 37203
tel: 615-771-2466
fax: 615-778-9733

November 22, 2019

Mr. Steve Davis
Kiewit Infrastructure South Co.
4405 International Blvd NW, Suite C-101
Norcross, GA 30093

Subject: Franklin WRF Expansion Project
Construction Change Authorization (CCA) No. 6

Dear Mr. Davis;

We have received your response to CCA No. 6 dated October 30, 2019 and respond with the following comments;

1. In the proposal from Wayne J. Griffin Electric, Inc., markup for work performed by lower tier subcontractors (Siemens) is limited to 5% per General Conditions paragraph 12.01-C-2-c, please revise and resubmit.
Change has been made to mark up Siemens Quote by 5% only
2. The proposal from Siemens does not contain sufficient detail for validation by the Engineer. Please provide costs for individual items of equipment and materials substantiated by quotes from vendors and labor costs broken down by actual raw rates, overhead and allowable markup.
Please see the attached breakdown of the Siemens quote to see if it is acceptable
3. The proposal from Siemens indicates costs for revised field drawings. No field drawings have been issued, therefore no revision is warranted. Please remove this cost.
This is something we have to provide and include in our labor cost for PTP wire drawings and AS Builts for the Head End Bldg fire alarm additions
4. The proposal from Siemens indicates costs for local AHJ testing and stamped plans per Franklin AHJ and electrical permits. These items should have already been included in Siemens' scope. Please remove these costs.
Not for the Head End Bldg – this bldg was not part of Siemens base scope.
5. The proposal from Siemens indicates 1,500 feet of fiber Multimode OM3 burial rated and installation of fiber. Communications between the FACPs in the Headworks and Solids Processing Buildings may be routed to PLC-1A and PLC-11, respectively, and transmitted on two strands of the 12-strand fiber currently being provided under the contract. Please remove/revise this cost.
Comply
Will need to know the type of fiber that is being provided. We will need dedicated strands for the fire alarm network and the cannot go thru any switches. I have attached the data sheet that is compatible with the Fire alarm network cards.
6. The proposal from Siemens excludes scale pay. The project is subject to Davis-Bacon wages. Please remove this exclusion
Comply - Removed From Scope

SIEMENS Industry, Inc.

Site: Franklin WRF – Franklin, Tn

Attn: Timothy Roberson – WJGEI

Revised 11/6/19

Proposal # a63ff

10/14/19

Site: Franklin WRF – Franklin, Tn

Project #

Project:

Architect: CDM Smith

Engineer: N/A

Siemens Industry Inc, to proposes to provide Fire alarm additions for the Headwork Bldg.

Proposal:

Scope: Change Order 1

Siemens Industry, Inc proposes to provide a Fiber network Fire alarm Head End at the Headworks Bldg. This will be to interface to the existing Fire alarm devices. The equipment that exist is shown below per the Headworks HW-ATC-1 Layout sheet 1. This Fire alarm Head end will be interfaced to the new Fire alarm system for the Solids Process Bldg. Fiber Run provided by others *****

1	S1	Explosion Proof Smoke Detector	Det-tronics	U5015
1		Duct Mount Accessory for U5015	Det-tronics	Q5016
2	S2	Photo Electric Smoke Detector	System Sensor	D4120W

Note: existing field devices to have the appropriate dry contacts for interface modules.

Siemens Fire System Additions

QTY ITEM

- 1 FC2025 Addressable System – Head End -Networked to Solids Process Bldg
- 1 300 Watt Pwr Supply
- 1 Operator Interface
- 1 Cabinet
- 1 Power Supply
- 9 Interface Modules for the existing Fire alarm devices
- 2 Fiber Network Cards Multi Mode
- 8 XTRI-M Interface Modules for the existing Fire alarm devices
- Lot Installation of Devices
- Lot Revised Field Drawings
- Lot Programing and Checkout
- Lot Local AHJ Testing and Stamped Plans per Franklin AHJ
- Lot Electrical Permits

INSTALLATION AND EQUIPMENT PRICE: \$19,976.00 – Includes Applicable Taxes.

Labor: \$8,995

Equipment: \$9,226

Stamped Plans: \$1,755

SIEMENS Industry, Inc.

Siemens' Scope will include the following:

- Equipment indicated and defined in this document
- Final Connections in control panels
- Project Management – Sub contractor
- Engineering
- O/M Manuals
- Programming
- Final Testing and Certifications
- One year warranty

EXCLUSIONS:

1. Premium Time
2. Any bid bonds,
3. Any conduit system, back boxes, sleeves, junction boxes
4. Installation of a conduit system, back boxes, sleeves, junction boxes
5. Any Duct Banks /Installation of duct banks
6. Any 120v Power
7. Any work on existing system/devices
8. Any Fiber for Fire alarm network by others

After looking over this proposal, should you have any questions, feel free to contact myself at (901) 301-9943 for further information.

Thank you for this opportunity and we are eager to work with you on this project.

Proposal Accepted:
Siemens Industry, Building Technologies, Inc. is authorized
to proceed with the work as proposed.

Proposal Submitted:
Siemens Industry, Building Technologies, Inc.

Name

Name

Tim Hardin

Signature

Signature

PO#

Title

Title

Sales Engineer

Date

Date

10/14/19

Siemens Industry Inc. , Building Technologies Div
1410 Donelson Pike – Suite A 3
Nashville, Tn.

SIEMENS Industry, Inc.

The Terms and Conditions of Sale shown on the attached are a part hereof

TERMS AND CONDITIONS OF SALE

(Contract Sales)

Link to the Siemens Terms and Conditions:

http://w3.usa.siemens.com/buildingtechnologies/us/en/legal_information/Documents/Siemens-Projects-Business-Standard-Terms-and-Conditions-FINAL-US.pdf

CONSTRUCTION CHANGE AUTHORIZATION

TO: Mr. Steve Davis
Project Manager
Kiewit Water Facilities South
4405 International Blvd., NW,
Suite C-101
Norcross, Georgia 30093
(770) 940-8044

FROM: CDM Smith
210 25th Ave. N.
Suite 1102
Nashville, TN 37203
(615) 320-3161

DATE: January 14, 2020

PROJECT: City of Franklin, Tennessee
Franklin WRF Modifications & Expansion Project

CCA 18.1
NUMBER:

CDM SMITH PROJ. NO.: 14915-231666

SUBJECT: BNR 2 Gearbox

CITY PROJECT NO.: 2017-0264

REFERENCE: (See Below)

DESCRIPTION: Delete the requirement to rebuild the gearbox for Aerator #2A at BNR Basin 2 specified in CCA No. 18. Furnish and install a new gearbox in accordance with proposal by Rebuild-it Services Group dated 1/8/2020. All other items of work required under CCA No. 18 and included in Kiewit proposal dated October 14, 2019 including re-termination of motor, reinstallation of the gearbox and startup shall be included in this CCA. Provide field painting per Section 09902. Provide operations and maintenance manuals for Owner use.

CDM SMITH:

By: 
Date: 6/25/20

CONTRACTOR:

By: _____
Date: _____

City of Franklin:

By: Mellin Hatcher

Date: 4/25/20



Kiewit

Kiewit Infrastructure South Co.
4405 International Blvd., NW, Suite C-101
Norcross, GA 30093

February 11, 2020

To: Attn: Mr. Dan Harris

CCA-KIEWIT-00008.03

CDM Smith, Inc.
210 25th Avenue North
Suite 1102
Nashville, TN 37203

Reference: Franklin WRF Modifications & Expansion Project
COF Contract No. 2017-0264

Subject: Construction Change Authorization No. 018 – BNR Basin No. 02 – New Gearbox

Dear Mr. Harris,

Kiewit is hereby submitting a revised cost proposal for Construction Change Authorization No. 018 – BNR Basin No. 02 – New Gearbox in the amount of **Ninety-Four Thousand Seven Hundred Thirty-Two Dollars (\$94,732.00)**. The gearbox replacement is in accordance with the attached proposal dated January 8, 2020 from REBUILD-IT SERVICES GROUP.

In addition, the proposal includes loading and offloading onto trucks provided by REBUILD-IT SERVICES GROUP, re-installation of the gearbox, motor, electrical termination of the motor, and refilling the gearbox with lubricant. Kiewit did not include or require removal of the Surface Aerator Gearboxes to replace the shafts in the BNR Basins. Startup services shall be provided as required by the plans and specifications.

If you have any questions, please do not hesitate to contact me at (678) 794-2121.

Sincerely,

Steve Davis
Project Manager

cc: File
Michelle Hatcher
Brian Goodwin



CCA NO. 018: BNR Basin No. 02 - Replacement Gearbox

PREPARED BY: Shave Davis

DESCRIPTION	QTY	UNIT	MH Per Unit	Total MH	DIRECT LABOR Unit Cost	DIRECT LABOR Total Cost	INDIRECT LABOR Unit Cost	INDIRECT LABOR Total Cost	MATERIAL Unit Cost	MATERIAL Total Cost	EQUIPMENT Unit Cost	EQUIPMENT Total Cost	SUBCONTRACT Unit Cost	SUBCONTRACT Total Cost	OTHER Unit Cost	OTHER Total Cost	TOTAL AMOUNT
BNR Basin No. 02 - Gearbox Replacement and Re-installation																	
New Sumitomo Atration Gearbox	1.00	LS							76,400.00	76,400.00							76,400.00
Re-installation of Gearbox and Motor on Gearbox	1.00	LS									3,160.00	3,160.00					3,160.00
Operated Crane - Clarke Crane, LLC (1-8 HR Day)	6.00	HR		6.00	36.13	216.78											216.78
Laborer	6.00	HR		6.00	52.51	315.06											315.06
Millwright	6.00	HR		6.00	70.42	422.52											422.52
Foreman																	
Gearbox Loading/Offloading	1.00	HR									60.00	60.00					60.00
Forklift Operator	1.00	HR		1.00	46.45	46.45											46.45
Foreman	1.00	HR		1.00	70.42	70.42					24.71	172.97					172.97
F-250 Crew Pickup	7.00	HR															
Gearbox Oil	26.50	GL							11.15	295.48							295.48
Electrical Terminations for Motor	1.00	LS											905.03	905.03			905.03
OTHER																	
STS - small tools, consumables, safety equip, (5% of direct labor, plus 9.75% sales tax: Formula = Total Direct Labor Subtotal *.05 * 1.0975)						1,071.23									53.56	53.56	53.56
TAX: (9.75% of Material, Equipment, Other)												330.81				5.22	336.04
BOND (2% of total)																	
SUBTOTALS				20.00		1,071.23				76,695.48		3,723.78		905.03		58.78	82,454.30
MARKUP %						0.15		0.15		0.15		0.15		0.09		0.15	12,277.64
SUBTOTALS WITH MARKUPS APPLIED						1,231.91				88,199.80		4,282.35		950.28		67.60	94,731.95
BOND																	
TOTAL																	\$ 94,732.00



SALES QUOTE

Quote #	Q122577
Page	1 of 1

Rebuild-it Services Group
P.O. Box 9178
Midvale, Utah 84047
Ph: (888) 709-5676
cking@rebuild-it.com

BILL TO: CITY OF FRANKLIN
109 THIRD AVE. SOUTH
P.O. BOX 305
FRANKLIN, TN 37065-0305

SHIP TO: CITY OF FRANKLIN
109 THIRD AVE. SOUTH
P.O. BOX 305
FRANKLIN, TN 37065-0305

Contact: TIM LAWS

Terms: NET 30 DAYS

Quote Date	Expiration Date	Entered By	Ship Via	Freight	Salesperson
01/08/2020	02/07/2020	CFALLON	FREIGHT	PREPAID	CHARLES FALLON

Item # / Description	Customer Part Number	U/M	Order Qty	Unit Price	Ext Price	Lead Time
TBD SUMITOMO DRIVE UNIT (PVD9090P3Y-RL-63 (Shipping Included)		EA	1	\$76,400.00	\$76,400.00	98 Days

Order Total: \$76,400.00

THANK YOU FOR ALLOWING US TO BE OF SERVICE TO YOU!

Steven.Davis1

From: Ty Mintern <ty@clarkcrane.com>
Sent: Saturday, September 7, 2019 7:38 AM
To: Steven.Davis1
Cc: Clark Elliott; JT Thompson; Mitchel Loveless
Subject: [EXTERNAL] Kiewit quote - Franklin WRF Project
Attachments: Ty Mintern.vcf; Clark Crane.pdf

Hi Steve,

Please see prices below considering a 115' radius lifting 4,500 lbs aerator gearbox approximately 10' up.

\$300.00 - cwt in
\$320.00 - per hour regular rate with a 6 hour minimum
\$380.00 - per hour overtime rate
\$300.00 - cwt out

Regular rate 7:00 am - 3:30 pm Monday - Friday (except holidays).

If you have any questions, please don't hesitate to contact me.

Thank you for the opportunity Steve, sure do appreciate it.

Kind regards,

Ty

Heavy Lift Consultant | Clark Crane, LLC
Crane Rental (Bare & Operated)

215 River Hills Dr, Nashville, TN 37210
M: 615-330-9214
E: ty@clarkcrane.com
W: <http://www.clarkcrane.com>



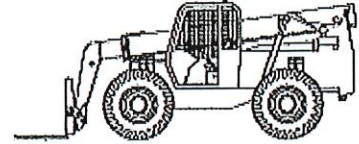
$$\begin{array}{r} \$320.00 / \text{HR} \\ 8.0 \text{ HRS} \\ \hline \$2,560.00 \\ + 300.00 \text{ cwt in} \\ + 300.00 \text{ cwt out} \\ \hline \$3,160.00 \end{array}$$

Total Operated Crane Rental

Rental Rate Blue Book®
Xtreme XR630

Telescoping Boom Rough Terrain Lift Trucks

 Size Class:
 4.0 - 4.4 MTons
 Weight:
 MT

Kiewit has XR1055 w/ 10,000 lb capacity

Configuration for XR630

Base Capacity	6000 lbs	Horsepower	74 hp
Maximum Lift Height	30.5 ft	Maximum Reach	221.0 in
Power Mode	Diesel		

Blue Book Rates

** FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs	FHWA Rate**
	Monthly	Weekly	Daily	Hourly	Hourly	Hourly
Published Rates	USD \$5,570.00	USD \$1,560.00	USD \$390.00	USD \$59.00	USD \$23.22	USD \$84.87
Adjustments						<i>\$60.00</i>
Region (100%)	-	-	-	-		
Model Year (2019: 100%)	-	-	-	-		
Adjusted Hourly Ownership Cost (100%)	-	-	-	-		
Hourly Operating Cost (100%)						
Total:	USD \$5,570.00	USD \$1,560.00	USD \$390.00	USD \$59.00	USD \$23.22	USD \$54.87

Non-Active Use Rates

	Hourly
Standby Rate	USD \$13.61
Idling Rate	USD \$38.03

Rate Element Allocation

Element	Percentage	Value
Depreciation (ownership)	30%	USD \$1,671.00/mo
Overhaul (ownership)	57%	USD \$3,174.90/mo
CFC (ownership)	6%	USD \$334.20/mo
Indirect (ownership)	7%	USD \$389.90/mo
Fuel (operating) @ USD 3.07	27%	USD \$6.38/hr

Revised Date: 2nd half 2019

These are the most accurate rates for the selected Revision Date(s). However, due to more frequent online updates, these rates may not match Rental Rate Blue Book Print. Visit the Cost Recovery Product Guide on our Help page for more information.

 The equipment represented in this report has been exclusively prepared for MICHAEL SHESTON
 (Michael.Sheston@kiewit.com)

** Equipment Watch does not have Xtreme XR1055 10k lb capacity. Used \$60/HR FHWA Rate*

Rental Rate Blue Book®

April 29, 2019

Ford F-250 SD

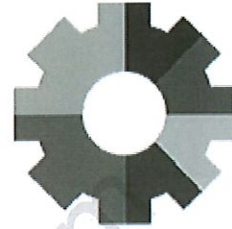
On-Highway Light Duty Trucks

Size Class:

300 HP & Over

Weight:

HP


Configuration for F-250 SD

Axle Configuration	4.0 X 4.0	Cab Type	Crew
Horsepower	300.0	Power Mode	Gasoline
Ton Rating	3.0 / 4.0		

Blue Book Rates

** FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs	FHWA Rate**
	Monthly	Weekly	Daily	Hourly	Hourly	Hourly
Published Rates	\$890.00	\$250.00	\$63.00	\$9.00	\$19.65	\$24.71
Adjustments						
Region (100%)	-	-	-	-		
Model Year (2019: 100%)	-	-	-	-		
Adjusted Hourly Ownership Cost (100%)	-	-	-	-		
Hourly Operating Cost (100%)					-	
Total:	\$890.00	\$250.00	\$63.00	\$9.00	\$19.65	\$24.71

Non-Active Use Rates

	Hourly
Standby Rate	\$3.59
Idling Rate	\$20.74

Rate Element Allocation

Element	Percentage	Value
Depreciation (ownership)	54%	\$480.60/mo
Overhaul (ownership)	29%	\$258.10/mo
CFC (ownership)	7%	\$62.30/mo
Indirect (ownership)	10%	\$89.00/mo
Fuel (operating) @ 2.75	80%	\$15.68/hr

Revised Date: 1st half 2019

These are the most accurate rates for the selected Revision Date(s). However, due to more frequent online updates, these rates may not match Rental Rate Blue Book Print. Visit the Cost Recovery Product Guide on our Help page for more information.

The equipment represented in this report has been exclusively prepared for MICHAEL SHESTON (Michael.Sheston@kiewit.com)

Steven.Davis1

To: Kelsie Taylor
Subject: RE: Franklin WRF - Sumitomo Gear Reducer Lubricant Quote

From: Kelsie Taylor <ktaylor@kimbrooil.com>
Sent: Friday, October 11, 2019 3:28 PM
To: Steven.Davis1 <Steven.Davis1@kiewit.com>
Subject: [EXTERNAL] RE: Franklin WRF - Sumitomo Gear Reducer Lubricant Quote

Steve,
I'm sorry it took so long to get you a response on this. I have determined that our PCA Enduratex EP 320 is a good cross for you. We do stock this product in the 5.3gl pails or 54.2gl drums. Please see below for the pricing. If you have any questions please feel free to give me a call.

Enduratex EP320: 5.3gl Pail \$11.15gl (I currently only have 3 pails of this but if you would like the pails we can get more of them in)

Enduratex EP320: 54.2gl Drum \$10.43gl

Thank you,

Kelsie Taylor | Kimbro Oil Company
Cell: 615-487-5044 | KOC Office: 615 320-7484 ktaylor@kimbrooil.com
[Check out our Kimbro Oil Flipbook](#)





**WAYNE J.
GRIFFIN ELECTRIC
INC.**

October 1, 2019

VIA EMAIL ONLY: Steven.Davis1@kiewit.com

Mr. Steven Davis, Project Manager
Kiewit
135 Claude Yates Drive
Franklin, TN 37064

RE: Job #6198 - Franklin WRF Mods and Exp, Franklin, TN
Proposal #13, Supersedes Proposal #10

Dear Mr. Davis:

Wayne J. Griffin Electric, Inc. ("WJGEI") proposes to modify our contract to perform the following lump sum revisions to our work per our enclosed detailed backup:

DESCRIPTION OF WORK:

This proposal is to re-term the wire on the BNR #2 Aerator Motor, according to CCA-018. This pricing provides for new lugs to be added at the motor termination. Existing wire is to remain.

Material	\$	257.28
Labor		525.71
Overhead & Profit		117.45
Subtotal	\$	900.44
Bond		4.59
Total	\$	905.03

This is a lump sum forward looking estimate of the above-noted change to our scope of work. This estimate represents a price we are willing to accept to assume the cost risk of this change to our ongoing work given the information provided to us. The labor and material prices contained in this proposal are based upon vendor/subcontractor quotes (if noted) and/or electrical industry pricing guides such as NECA, Trade Service, or R.S. Means, which guides are widely used and accepted in the construction industry to facilitate timely and consistent change order pricing. This estimate is offered for your review, approval and acceptance.

Corporate Headquarters:

116 Hopping Brook Road
Holliston, MA 01746
Phone: (508) 429-8830
Fax: (508) 429-7825

Regional Offices:

296 Cahaba Valley Parkway
Pelham, AL 35124
Phone: (205) 733-8848
Fax: (205) 733-8107

1950 Evergreen Boulevard
Suite 300
Duluth, GA 30096
Phone: (678) 417-9377
Fax: (678) 417-9373

2310 Presidential Drive
Suite 101
Durham, NC 27703
Phone: (919) 627-9724
Fax: (919) 627-9727

9801-C Southern Pine Boulevard
Charlotte, NC 28273
Phone: (704) 522-3851
Fax: (704) 522-3856

Mr. Steven Davis
October 1, 2019
Page 2

The value included in this proposal does not include any amounts for extended contract duration, overtime, changes in the sequence of work, acceleration, disruptions, interference and/or impacts, and the right is expressly reserved to recover any and all of these related items prior to any final settlement of this contract. The working relationship between your company and ours shall be in accordance with our mutually agreed to contract form.

Wayne J. Griffin Electric, Inc. reserves the right to void this proposal after thirty (30) days from the date above.

If you have any questions regarding the above, please do not hesitate to contact me at (205) 733-8848 ext. 6175 or troberson@wjgei.com.

Very truly yours,

WAYNE J. GRIFFIN ELECTRIC, INC.



Timothy R. Roberson
Project Manager

TRR/jmr

ACKNOWLEDGMENT: The contract modifications stated for the above proposal are acceptable for the work to be performed. The value of the work completed to the date of the next requisition may be billed on that requisition.

Date: _____ Authorized Signature: _____

cc: Corbin Coker, Engineer, Kiewit, Corbin.Coker@Kiewit.com
Calvin Mize, Regional Manager, Wayne J. Griffin Electric, Inc.
Sarah Moore, Project Engineer, Wayne J. Griffin Electric, Inc.



116 Hopping Brook Road, Holliston, MA 01746
(508) 429-8830 FAX (508) 429-9251

CCN#: P-0013, CCA-018
Date: 9/19/2019
Project Name: Franklin WRF Mods and Exp
Project Number: 06198-00-18
Page Number: 1

Work Description

This proposal is to re-term the wire on the BNR#2 Aerator Motor, according to CCA-018. This pricing provides for new lugs to be added at the motor termination. Existing wire is to remain.

Itemized Breakdown

Description	Qty	Net Price	UM	Materials (\$)	Labor	Total Hours
As Builts	0.00	0.0000	HRS	0.000	0.000	0.150
Cleanup	0.00	0.0000	HRS	0.000	0.000	0.150
Tools	0.00	0.0000	HRS	0.000	0.000	0.180
Field Safety/JHA	0.00	0.0000	HRS	0.000	0.000	0.150
Supervision	0.00	0.0000	HRS	0.000	0.000	0.310
Project Controls	0.00	0.0000	HRS	0.000	0.000	0.310
WIRE TERMINATION	3.00	0.0000	EA	0.000	0.550	1.650
#2 - 600 INSULATED MECHANICAL LUG	3.00	85.7600	EA	257.280	1.500	4.500
Totals				257.28		7.40
Tax				0.00		
Materials with				257.28		

Summary

Itemized Breakdown Total		257.28
Elect. Journeyman	(7.4000 hrs @ \$71.04 / hr)	525.70
		525.70
Overhead & Profit	(\$782.99 @ 15.00%)	117.45
		117.45
Bond	(\$900.44 @ 0.51%)	4.59
		4.59
		122.04
Total		\$905.03

CONSTRUCTION CHANGE AUTHORIZATION

TO: Mr. Steve Davis
Project Manager
Kiewit Water Facilities South
4405 International Blvd., NW,
Suite C-101
Norcross, Georgia 30093
(770) 940-8044

FROM: CDM Smith
210 25th Ave. N.
Suite 1102
Nashville, TN 37203
(615) 320-3161

DATE: July 23, 2019

PROJECT: City of Franklin, Tennessee
Franklin WRF Modifications & Expansion Project

CCA NUMBER: 013 **CDM SMITH PROJ. NO.:** 14915-231666

SUBJECT: Solids Processing Building **CITY PROJECT NO.:** 2017-0264

REFERENCE: (See Below)

DESCRIPTION: Construct a sump in the elevator pit at the Solids Processing Building per SK-2 attached.

CDM SMITH:

By: 

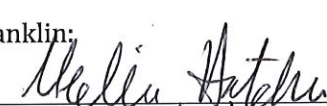
Date: 6/25/20

CONTRACTOR:

By: 

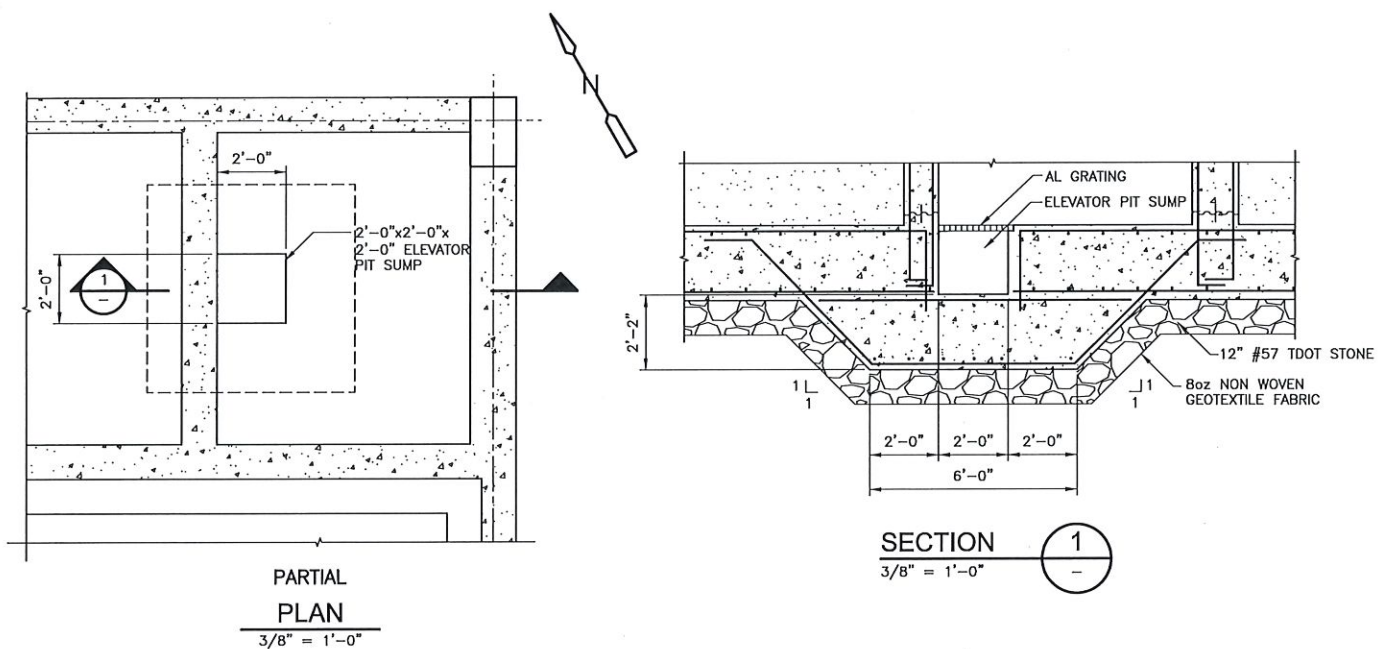
Date: 6/25/20

City of Franklin:

By: 

Date: 6/25/20

CDM SMITH SHALL BE RESPONSIBLE FOR THE REVIEW OF ALL DOCUMENTS, THESE DOCUMENTS AND DESIGNS PROVIDED BY PROFESSIONAL SERVICE, INCORPORATED HEREIN, ARE THE PROPERTY OF CDM SMITH AND ARE NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CDM SMITH.



**CDM
Smith**

DATE JULY 2019

SHEET NO.
S-44/
S-53

LOCATION
-

ADDENDUM
NO.
-

FIGURE
NO.
SK-2



Kiewit Infrastructure South Co.
4800 North Point Parkway, Suite 100
Alpharetta, GA 30022

February 10, 2020

To: Attn: Mr. Dan Harris

CCA-KIEWIT-00019.00

CDM Smith, Inc.
210 25th Avenue North
Suite 1102
Nashville, TN 37203

Reference: Franklin WRF Modifications & Expansion Project
COF Contract No. 2017-0264

Subject: Construction Change Authorization No. 013 – Solids Process Building Changes

Dear Mr. Harris,

Kiewit is hereby submitting a cost proposal for CCA No. 013 Solids Process Building Changes in the amount of **Six Thousand Sixteen Dollars (\$6,016.00)**.

This proposal includes changes to construct a sump in the elevator pit at the Solids Processing Building per sheet **SK-2**.

If you have any questions, please do not hesitate to contact me at (678) 794-2121.

Sincerely,

A handwritten signature in black ink, appearing to read 'Steve Davis', with a stylized flourish at the end.

Steve Davis
Project Manager

cc: File
Michelle Hatcher

Kiewit Infrastructure South Co.
4800 North Point Parkway, Suite 100
Alpharetta, GA 30022



DATE: 12/18/19

CCA NO.: 013 Solids Process Building Sump Elevator Pit

PREPARED BY: Henry A.

DESCRIPTION	QTY	UNIT	MH Per Unit	Total MH	DIRECT LABOR		INDIRECT LABOR		MATERIAL		CONST. EQUIPMENT		SUBCONTRACT		OTHER		TOTAL AMOUNT
					Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	
LABOR																	
ERECT & STRIP FORMS @ 0.25 MH/SF	16.0	SF															
Foreman	1.0	EA	0.25	4	\$ 61.04	\$ 244.16											\$ 244.16
Carpenters	2.0	EA	0.25	8	\$ 38.34	\$ 306.72											\$ 306.72
PLACE/FINISH/CURE @ 1 MH/CY	3.0	CY															
Foreman	1.0	EA	1.00	3	\$ 61.04	\$ 183.12											\$ 183.12
Concrete Finisher	2.0	EA	1.00	6	\$ 38.34	\$ 230.04											\$ 230.04
Laborer	1.0	EA	2.00	6	\$ 36.13	\$ 216.78											\$ 216.78
DRY FINISH @ 0.05 MH/SF	16.0	SF															
Concrete Finisher	1.0	EA	0.05	1	\$ 38.34	\$ 30.67											\$ 30.67
INSTALL GRATING ANGLE EMBED @ 0.30 MH/LF	8.0	LF															
Iron Worker (Building)	2.0	EA	0.30	6	\$ 68.17	\$ 327.22											\$ 327.22
INSTALL GRATING @ 0.20 MH/SF	4.0	SF															
Iron Worker (Building)	2.0	EA	0.30	2	\$ 68.17	\$ 163.61											\$ 163.61
INSTALL REINFORCING STEEL @ 4 MH/TN	0.90	TN															
Foreman	1.0	EA	4.00	3.60	\$ 61.04	\$ 219.74											\$ 219.74
Iron Worker (Building)	2.0	EA	4.00	7.20	\$ 68.17	\$ 490.82											\$ 490.82
SUPPLIES																	
Purchase Formwork (Small hand set forms)	16.0	SF							\$ 3.00	\$ 48.00							\$ 48.00
MATERIALS																	
#57 TDOT Stone	2.0	TN							\$ 18.00	\$ 36.00							\$ 36.00
Class E 4500 PSI Concrete	3.0	CY							\$ 112.00	\$ 336.00							\$ 336.00
6" Waterstop	24.0	LF							\$ 3.25	\$ 78.00							\$ 78.00
Aluminum Grating and Embeds (HME, Inc.)	1.0	LS							\$ 1,030.00	\$ 1,030.00							\$ 1,030.00
Reinforcing Steel (Saber Steel)	0.90	TN							\$ 1,008.32	\$ 907.49							\$ 907.49
OTHER																	
STS - small tools, consumables, safety equip, (5% of direct labor, plus 9.75% sales tax: Formula = Total Direct Labor Subtotal * .05 * 1.0925)	46	MHR			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2.89	\$ 132.41	\$ 132.41
TAX: (9.75% of Material, Equipment, Other)									\$ 237.46							\$ 12.91	\$ 250.37
SUBTOTALS				46	\$ 2,412.88	\$ -	\$ -	\$ -	\$ 2,672.95	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 145.32	\$ 5,231.15
MARKUP %																	\$ 784.67
SUBTOTALS WITH MARKUPS APPLIED					\$ 2,774.82				\$ 3,073.89							\$ 167.11	\$ 6,015.82
BOND																	\$ 6,016.00
TOTAL																	\$ 6,016.00

Franklin WRF Modifications & Expansion Project
City of Franklin, TN
Job No.: 103925

Seller: Nashville Ready Mix Concrete
Purchase Agreement No.: PA103925-05
Contract ID No. PXXXXXX-XXX

ATTACHMENT A Concrete

Scope of Work

Item	Description	Quantity	Unit of Measure	Unit Price	Total
1	Class A 2500 PSI	0.00	CY	\$ 104.00	\$ -
2	Class E1 4500 PSI		CY	\$ 112.00	
3	Class E2 4500 PSI		CY	\$ 112.00	
4	Class E3 4500 PSI		CY	\$ 112.00	
5	Class F (10) 4500 PSI	0.00	CY	\$ 113.00	\$ -
6	Excavatable Flow Fill 1 (100 psi)	0.00	CY	\$ 101.00	\$ -
7	Excavatable Flow Fill 2 (75 psi)	0.00	CY	\$ 103.00	\$ -
8	Excavatable Flow Fill 3 (50psi)	0.00	CY	\$ 98.00	\$ -
9	4000 PSI #7 Limestone	0.00	CY	\$ 130.00	\$ -
10	4000 PSI 2" Line Pump Mix with Fiber @ 1.5lbs per cy	0.00	CY	\$ 126.00	\$ -
11	4000 PSI Fine Grout Mix (4" Slump)	0.00	CY	\$ 142.00	\$ -
12	Add for Poly Fiber Reinforcement @ 1.5lbs per cy	0.00	CY	\$ 6.00	\$ -
13	Add for SRA035 Shrinkage Admixture @ 1 gal per cy	0.00	CY	\$ 35.00	\$ -
14	To Insurance slump up to 6", add per cy MRWR	0.00	CY	\$ 3.00	\$ -
15	To Insurance slump up to 8", add per cy HRWR	0.00	CY	\$ 5.00	\$ -
	Contract Total (without Taxes)				

1.0 General Description of the "Work": The s

- .1 FURNISH SECTIONS: Section 03300 – Cast-In-Place Concret per plans, specifications, and Addenda [Addenda 1-6]

Also included in additional to the above, any other applicable and/or related specification sections. Including but not limited to: Division 00, Division 1 General Requirements.

2.0 Including But Not Limited to:

- .1 The Unit Prices in the Schedule of Valves are firm for the durations of the Project including escalation.
.2 Seller will provide 0% of the Seller's total contract dollar value in DBE participation.
.3 Material is not exempt from sales or use taxes.

Attachment A Bedding

Schedule of Values

Item	Description	Approx. Quantity	Unit of Measure	Unit Price	Total
1	TDOT 57 Stone		TN	\$ 18.00	
2	TDOT Grade D		TN	\$ 12.50	
3	Class A3 Rip Rap		TN	\$ 21.00	
4	Surge Stone		TN	\$ 13.00	
5	Class A1 Rip Rap		TN	\$ 21.00	
6	2" to 3" Stone		TN	\$ 17.75	
7	TDOT #4 Stone		TN	\$ 17.75	
	Approximate Contract Total (without Taxes)				
	Bond (0%)				\$ -

1.0 General Description of the "Work": Provide all supervision, labor, material tools and equipment to furnish and deliver aggregates of the type, at the unit prices, and up to the qty shown on the Schedule of Values.

- .1 FURNISH SECTIONS: 02230 - Granular Materials complete per plans, specifications, and addenda [Addenda 1-6];

Also includes in addition to the above, any other applicable and/or related specification sections, including but not limited to: Division 00 and Division 1 General Requirements

2.0 Including But Not Limited to:

- .1 The Contract price(s) are firm through 12/31/19.
- .2 Seller will provide 0 % of the Seller's total contract dollar value in DBE participation.
- .3 Material is not exempt from sales or use taxes.
- .4 **Industrial Machinery Sales and Use Tax Exemption Certificate – Attachment C-3 (per Specification Section 00800 Supplementary Conditions Article SC-6.10A).** Sales and Use Tax Exemption Certificate will be provided for the Project by the Contractor.
- .5 All Deliveries must include a material ticket recognizing the material and quantity delivered. Delivery Tickets to be signed by Contractor for validation of receipt and acceptance to pay for actual quantities delivered.

3.0 Clarifications:

- .1 Effective 1/1/20 Seller will institute a 3% increase per ton on all remaining aggregate through 12/31/20. An additional 3% increase will be effective per ton starting 1/1/21 through 12/31/21.
- .2 Delivered prices are based on full loads (20 ton or more) a minimum haul may be applied for smaller loads.

Misc Metals

HME, INC. HAAS METAL ENGINEERING

2828 NW Button Road
Topeka, KS 66618
Phone: 785-235-1524



Change Order Request

Owner: Kiewit Infrastructure South Co.
4405 International Blvd., NW, Suite C-101
Norcross, GA 30093

Project: 18.097 / FRANKLIN WRF
135 CLAUDE YATES DR.
FRANKLIN, TN 37064

COR# 3: ADDED SUMP

\$1,030.00

PER CCA 013 ADDING ALUM. GRATING AND GRATING SUPPORT FOR 2'-0" SQUARE SUMP.

1: ADDED SUMP

TOTAL, THIS CHANGE ORDER REQUEST

\$1,030.00



CCA # 013

Approved By: Kiewit Infrastructure South Co.

Signed: _____

Date: _____

Submitted By: HME, Inc.

Signed: _____

Date: _____

Reinforcing Steel

SABER STEEL LLC

(Native American Owned; SDVOSB; ARDOT, ALDOT, KYDOT, MDOT, MODOT & TDOT DBE Certified)
A REBAR FABRICATION COMPANY

TO Bidding Contractors

DATE: 12/16/2019

ADDRESS

PROJECT: Franklin W.R.F.

CITY

LOCATION: Franklin, TN

THESE PRICES DO NOT INCLUDE ANY APPLICABLE TAX

Excludes: Weldable Bars, Galvanized Bar, Bar Supports and Accessories;

Have seen No Addendum; Drawings Dated 11/7/19

	<u>Solids Processing Sump</u>	
0.90	Tons Reinforcing Steel	\$907.49
	<u>UV Structure Changes</u>	
0.95	Tons Reinforcing Steel	\$955.46

TOTAL \$1,862.95

ACCESSORY PRICING AVAILABLE UPON REQUEST
THIS QUOTATION SUBJECT TO

ACCEPTANCE WITHIN 10 DAYS.

3638 Fite Road, Millington, TN 38053

P: (901) 334-4400

F: (901) 334-4077

Nathan Cortez
SABER STEEL LLC

BY Nathan Cortez

Email: Keiven@sabersteel-llc.com

ALT EMAIL: Nathan@sabersteel-llc.com

Change Proposal Preparation Checklist

1044/103925

Project Name: Franklin WRF Orig. \$ Cont. Amt. \$132,890,000 Co. / Proj. #: _____

Change Order / Claim Identification (Name/No) / \$ Amt. CCA 013 - \$6,016

Lead Preparer Initials	Mgr Review Initials	Intended Submittal Date: <u>2/10/20</u>	Public/Private: <u>Public</u>
		1. All major items have adequate supporting schedules and documentation. 2. G&A rate is correct; no other duplicative overhead is included in PCO. 3. Equipment rates used in PCO are in accordance with contract specifications. • Operating expenses are either separately stated or part of the rate. • Stand by rates used per contract or other acceptable method. • 3rd party equipment is billed in accordance with contract specifications. 4. Time Related Overhead calculations are per contract, and are properly supported by the cost report. Items in the TRO are time related expenses, and not lump sum type items. If applicable, contingency items in the TRO are separately identified for transparency. 5. Worksheets were reviewed for accurate formulas; all spreadsheets total and cross check properly. 6. All markups used are in accordance with contract specs. 7. Labor add-on rates were tested and reconciled to union agreements or other supporting documentation; taxes and insurance were verified for accuracy. 8. To the extent required by law or the contract with the owner, contingency items are separately identified and transparent to reader. 9. Subcontractor change proposal has been reviewed and is reasonably supported. (Complete Appendix 3 if Subcontract costs are include in the proposal.) 10. Previously submitted costs are not included in this request.	
			
			
			
			
			
			
			
			
			

I have reviewed the Change Proposal and believe it is in compliance with the contract, and specifically the checklist above. To the extent required by Corporate Policy, this will be submitted to Internal Audit for review.

Lead Preparer	 Name _____	<u>02/10/20</u> Date
0 - \$100,000	Approved by Project Manager _____ Date _____	
\$100,001 - \$500,000	Approved by Sponsor _____ Date _____	
\$500,001 - \$2,000,000	Approved by Area Manager _____ Date _____ Approved by District Contract Administration Mgr _____ Date _____	
\$2,000,000+	Approved by District Manager _____ Date _____	

CONSTRUCTION CHANGE AUTHORIZATION

TO: Mr. Steve Davis
Project Manager
Kiewit Water Facilities South
4405 International Blvd., NW,
Suite C-101
Norcross, Georgia 30093
(770) 940-8044

FROM: CDM Smith
210 25th Ave. N.
Suite 1102
Nashville, TN 37203
(615) 320-3161

DATE: August 15, 2019

PROJECT: City of Franklin, Tennessee
Franklin WRF Modifications & Expansion Project

**CCA
NUMBER:** 21

CDM SMITH PROJ. NO.: 14915-231666

SUBJECT: Yard Piping Elevations

CITY PROJECT NO.: 2017-0264

REFERENCE: (See Below)

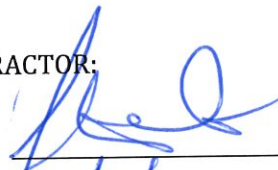
DESCRIPTION: Per Engineer's response to RFI No. 124 (att.), revise yard piping elevations and profiles and finished grades as shown on revised sheets M-17, C-31 and C-52 (also att.).

CDM SMITH:

By: 

Date: 6/25/20

CONTRACTOR:

By: 

Date: 6/25/20

City of Franklin:

By: 

Date: 6/25/20



Request For Information

RFI Reference No: KIEWIT-RFI-000124

Status: RESP RECD

For Action: Michael Sheston, Kiewit
 Steve Davis, Kiewit
 Dan Harris, CDM Smith
 Jon Allen, CDM Smith

For Info: Tom Lamb, CDM Smith
 Jim Townsend, CDM Smith
 Brian Goodwin, City of Franklin
 Michelle Hatcher, City of Franklin
 Neena Bilbo, City of Franklin
 Andrew McLain, Kiewit
 Andy McMillen, Kiewit
 Kyle Krajco, Kiewit
 Scott Ritter, Kiewit
 Chris Tennyson, Kiewit

Project: Franklin WRF Modification and Expansion Project

Subject: **Elevation Differences for 42" RWW-DI Lines to BNR Basin 1,2, & 3**

Kiewit has identified elevation differences on the drawings for the 42" RWW-DI lines leading from the future BNR Distribution Box to BNR Basins 1,2, and 3. On M-17, sections 1, 2, and 3 show each 42" line having a centerline at 627.03 leaving the BNR Distribution Box. On sheet C-52, profiles P14, P15, and P16 each show a 630.15 centerline at Station 0+00 at the BNR Distribution Box. On sheet M-21 and M-22, a typical section is referenced for the end of each 42" line on S-14. The typical section on S-14 shows the 42" line with a centerline at 641.00 at each BNR Basin, while the profiles on C-52 show each 42" Line ending with a centerline at 639.55.

Attachments: Elevation Differences for 42 RWW-DI Lines to BNR Basins 1,2,3.htm
 RFI-124-Elevation Difference BNR.pdf

Discipline: PIPE

Area: YARD PIPE

Location: EXIST

Proposed Solution:

Please clarify any discrepancies in elevation identified in the referenced drawings.

Specification Reference: 02050 - Demolition and Modifications

Drawing Reference: C-52
 M-17
 M-21
 M-22
 S-14

Related RFI No(s):

Schedule Impact:

Cost Impact:

Priority: H - High

**Originator's Reference
No :**

Alt. Reference Number:

Response Required By: 07 August 2019

RFI by:	Scott Ritter, Kiewit	On: 24 July 2019
Created By:	Michael Sheston, Kiewit	On: 24 July 2019, 03:47:35 PM -05:00
Last Edited By:		On:

01 - Engineer / Owner Comments

Per our response to RFI No. 073, the elevations of the three 42" RWW-DI pipes leaving the BNR distribution box should be CL 630.15 as shown on C-52, and the 54" RWW-DI pipe entering the box should be at CL 629.60 as shown on C-52. The 42" pipe connection at each BNR basin should be at CL 641.00 per S-14. Updated C-52 and M-17 drawings will be provided with a forthcoming CCA.

Engineer / Owner Comments by:	Carrie Carden, CDM Smith	On: 08 August 2019
Created By:	Jon Allen, CDM Smith	On: 08 August 2019, 10:48:12 AM -05:00
Last Edited By:	Jon Allen, CDM Smith	On: 08 August 2019, 10:48:12 AM -05:00

02 - Response Received / Closeout

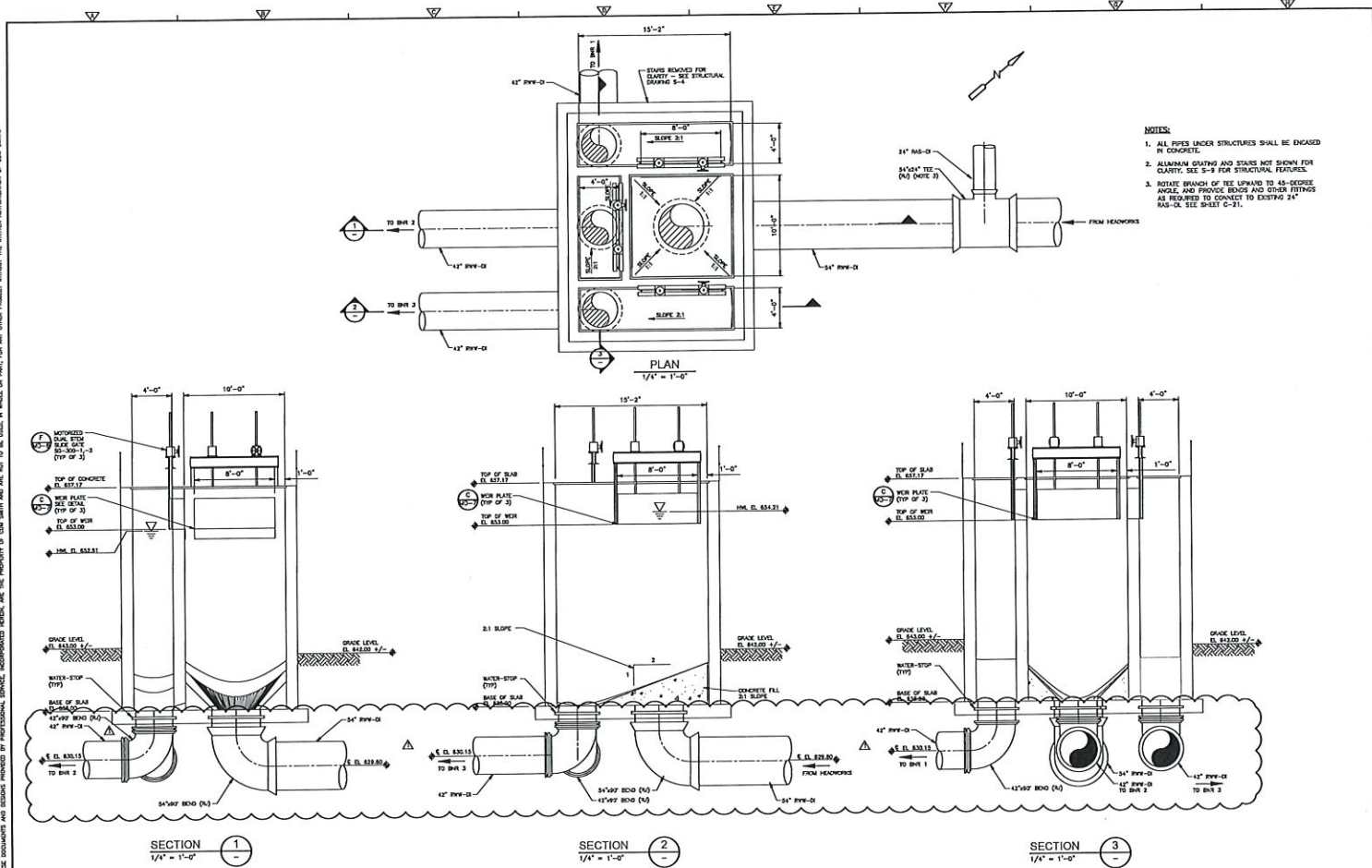
Response Received / Closeout by: On: _____

Created By: On: _____

Last Edited By: On: _____

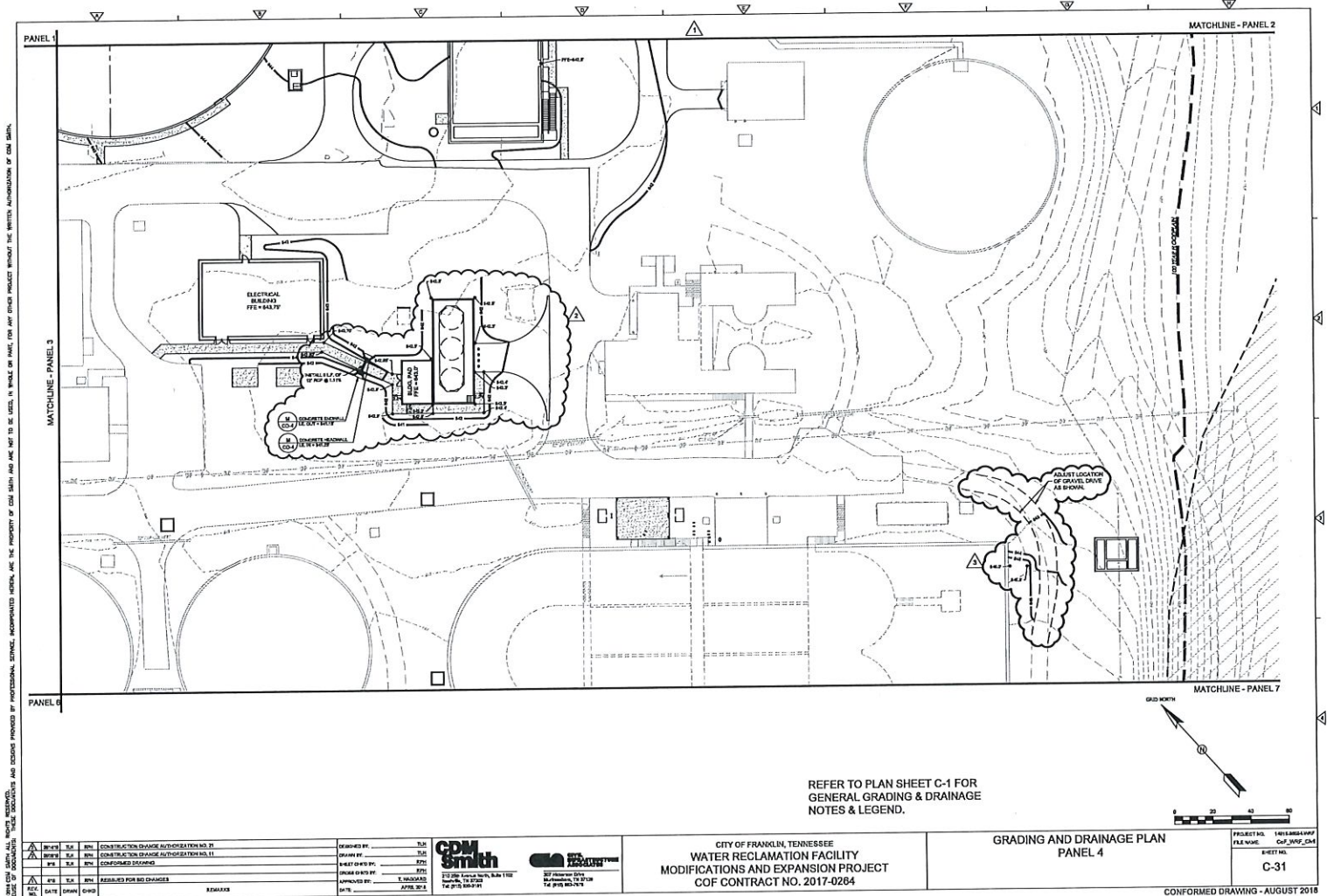
NOTES: 1. ALL PIPES UNDER STRUCTURES SHALL BE ENCASED IN CONCRETE. 2. ALLMAN GRATING AND STAIRS NOT SHOWN FOR CLARITY. SEE S-8 FOR STRUCTURAL FEATURES. 3. ROTATE BRANCH OF TEE UPWARD TO 45-DEGREE ANGLE, AND PROVIDE BEADS AND OTHER FITTINGS AS REQUIRED TO CONNECT TO EXISTING 24" RGS-12. SEE SHEET C-21.

DESIGNED BY: J. LIND
CHECKED BY: B. SMITH
DATE: 07/15/15
PROJECT: FRANKLIN WRF MODIFICATIONS AND EXPANSION PROJECT
SHEET: M-17



										DESIGNED BY: J. LIND				CITY OF FRANKLIN, TENNESSEE				BNR BASINS				PROJECT NO 14115-0004-WF FILE NAME: M0172P02.DWG SHEET NO: M-17	
										DRAWN BY: B. SMITH				FRANKLIN WRF				INFLUENT DISTRIBUTION BOX					
										CHECK DATE BY: B. LEE				MODIFICATIONS AND EXPANSION PROJECT				PLAN AND SECTIONS					
										PROJECT CHARGED BY: B. HUBBARD				C/O CONTRACT NO. 2017-0264									
										APPROVED BY: C. GARCIA													
										DATE: APRIL 2018													
REVISIONS																							
NO.										DATE		BY		CHKD		DESCRIPTION							
1										06/11		LIM		CIC		CONSTRUCTION CHANGE AUTHORIZATION (C-21)							
2										07/15		LIM		CIC		CONFORMED DRAWING							

CONFORMED DRAWING - AUGUST 2018



REFER TO PLAN SHEET C-1 FOR
GENERAL GRADING & DRAINAGE
NOTES & LEGEND.

CITY OF FRANKLIN, TENNESSEE
WATER RECLAMATION FACILITY
MODIFICATIONS AND EXPANSION PROJECT
COF CONTRACT NO. 2017-0284

GRADING AND DRAINAGE PLAN
PANEL 4

PROJECT NO. 16160841000
FILE NAME Cof_P04_C04
SHEET NO.
C-31

CONFORMED DRAWING - AUGUST 2018

DATE	BY	CHK	CONSTRUCTION CHANGE AUTHORIZATION NO. 21	DESIGNED BY	TJR
DATE	BY	CHK	CONSTRUCTION CHANGE AUTHORIZATION NO. 11	DRAWN BY	TJR
DATE	BY	CHK	CONFORMED DRAWING	CHECKED BY	SPJ
DATE	BY	CHK	REDESIGNED FOR NO CHANGES	PROJECT ENGINEER	SPJ
DATE	BY	CHK		APPROVED BY	E. HODGINS
DATE	BY	CHK		DATE	JUL 26, 2018

CDM
Smith

CITY OF FRANKLIN
TENNESSEE

213 Old Franklin Road, Suite 1100
Franklin, TN 37068
Tel: 615.793.4474



Kiewit Infrastructure South Co.
4800 North Point Parkway, Suite 100
Alpharetta, GA 30022

February 10, 2020

To: Attn: Mr. Dan Harris

CCA-KIEWIT-00020.00

CDM Smith, Inc.
210 25th Avenue North
Suite 1102
Nashville, TN 37203

Reference: Franklin WRF Modifications & Expansion Project
COF Contract No. 2017-0264

Subject: Construction Change Authorization No. 021 – Revised Yard Piping Elevations

Dear Mr. Harris,

Kiewit is hereby submitting a cost proposal for **Construction Change Authorization No. 021 – Revised Yard Piping Elevations** for a credit of **One Thousand Eight Hundred Forty-One Dollars (\$1,841.00)**. This proposal includes the completion of work necessary per revisions to yard piping elevations, profiles, and finished grades as shown on revised sheets **M-17, C-31, and C-52**. If you have any questions, please do not hesitate to contact me at (678) 794-2121.

Sincerely,

A handwritten signature in black ink, appearing to read 'Steve Davis', written over a horizontal line.

Steve Davis
Project Manager

cc: File
Michelle Hatcher

DATE: 1/16/20

PREPARED BY: Henry A.

[illegible]

Henry.AlvaradoIII

From: May, Linda <Linda.May@coreandmain.com>
Sent: Monday, January 13, 2020 11:07 AM
To: Michael.Smith20
Cc: Henry.AlvaradoIII
Subject: [EXTERNAL] RE: Franklin WRF CCA-021

See below for your pricing.

**Revised Pricing per
CCA 021
Core & Main Quote**

42 PEXWCXHPPE DI PIPE
3'0" W/WC @ 9" FROM PE
P401/PR AIS - TAG MARK 3080 \$2,470.78

42 TR-FLEXPE X TR-FLEXPE DI PIPE 11'6"
P401/BIT AIS - TAG MARK #16740 \$5827.97

42 HPLPEXHPLPE DI PIPE 11'6"
P401/BIT AIS - TAG MARK #16810 \$5,827.97

42 HPLPEXTJPE DI PIPE 11'6"
P401/BIT AIS - TAG MARK #16900 \$5827.97

Thank you,

Linda May
SE Plant Group
Project Manager
Mobile – 813-695-3305
Phone – 813-621-1971
Fax – 813-621-3280
linda.may@coreandmain.com

I will be on vacation January 27th – January 31st

Respect is earned. Honesty is appreciated. Trust is gained. Loyalty is returned.



CONFIDENTIALITY NOTICE:

This message is for intended addressee(s) only and may contain confidential, proprietary or privileged information, exempt from disclosure, and subject to terms at: <http://emailterms.coreandmain.com>

From: Michael.Smith20 [mailto:Michael.Smith20@kiewit.com]
Sent: Tuesday, January 7, 2020 8:48 AM

Attachment A-1 DIP Pipe & Fittings Core & Main Supply Contract

PROJECT NAME: FRANKLIN WRF MODIFICATIONS & EXPANSION PROJECT

ROW	QTY	SIZE	DESCRIPTION	UNIT	TOTAL	EXT WEIGHT	AREA
2800	20" OVF (M-12)						
2810		30"X20"	DI C110 FLG CONCENTRIC REDUCER, T1/P-401	\$	6,874.63	870.00	DI INTERIOR
2820		20"X19'-06"	DIP SPOOL CL53 FLG X FLG, T1/P-401	\$	4,005.33	4,512.00	DI INTERIOR
2830		20"	DI C110 FLG BASE 90 BEND, T1/P-401	\$	5,717.16	700.00	DI INTERIOR
2840		20"X02'-00"	DIP SPOOL CL53 FLG X PE, T1/P-401	\$	915.00	322.00	DI INTERIOR
2850		20"X02'-00"	DI WALL PIPE MJ(TFS) X WC X TR-FLEX BELL, P-401	\$	1,866.79	644.00	DI INTERIOR
2860		20"	EBAA 1100 MEGALUG FOR DIP w/316SS B/N	\$	434.05	87.00	DI UNDERGROUND
2880							
2890	14" FEQ INF (M-9)						
2900		14"X03'-00"	DI WALL PIPE TR-FLEX BELL X WC X PE, T1/P-401	\$	421.82	410.00	DI INTERIOR
2910							
2920	24" FUTURE TRANSFER PIPE (M-9)						
2930		24"	DI C110 BLD FLG, T1/P-401	\$	2,440.41	370.00	DI INTERIOR
2950		24"X05'-00"	DI WALL PIPE FLG X WC X TR-FLEX PE, T1/P-401	\$	2,367.60	988.00	DI INTERIOR
2960		24"	DI TR-FLEX 90 BEND, P-401	\$	3,390.32	1,070.00	DI UNDERGROUND
2970		24"X14'-00"	DIP SPOOL PC 250 TR-FLEX BELL X TR-FLEX PE, P-401	\$	2,733.76	358.00	DI UNDERGROUND
2980		24"X02'-00"	DIP SPOOL PC 250 TR-FLEX BELL X TR-FLEX PE, P-401	\$	824.98	358.00	DI UNDERGROUND
2990		24"	DI TR-FLEX PLUG, P-401	\$	1,557.87		DI UNDERGROUND
3000							
3010	20" FEQ-E (M-9)						
3020		20"X06'-00"	DI WALL PIPE TR-FLEX BELL X WC X PE, T1/P-401	\$	1,042.38	873.00	DI INTERIOR
3030		20"	DI TR-FLEX PIPE PC 300, P-401	\$	92.66	7,900.00	DI UNDERGROUND
3040		20"X02'-00"	DIP SPOOL PC 300 TR-FLEX BELL X TR-FLEX PE, P-401	\$	621.11	208.00	DI UNDERGROUND
3050							
3060	ITEM 6 - BNR BASINS INFLUENT DISTRIBUTION BOX						
3070	42" RWW (M-17)						
3080		42"X06'-00"	DI WALL PIPE PE X WC X HP LOK PE, T1/P-401	\$	3,536.11	7,077.00	DI INTERIOR
3090		42"	DI HP LOK 90 BEND, P-401	\$	14,686.64	11,250.00	DI UNDERGROUND
3100		42"X04'-00"	DIP SPOOL PC 250 HP LOK BELL X HP LOK PE, P-401	\$	2,331.28	0.00	DI UNDERGROUND
3110							
3120	54" RWW (M-17)						
3130		54"X05'-00"	DI WALL PIPE PE X WC X HP LOK PE, T1/P-401	\$	5,219.47	2,390.00	DI INTERIOR
3140		54"	DI HP LOK 90 BEND, P-401	\$	30,613.19	7,240.00	DI UNDERGROUND
3150		54"X06'-00"	DIP SPOOL PC 250 HP LOK BELL X HP LOK PE, P-401	\$	4,967.86	0.00	DI UNDERGROUND
3160							
3170	ITEM 9 - BASINS 1,2,3 MODIFICATIONS						
3180	42" INF (M-21,22)						
3190		42"X03'-02"	DI WALL PIPE HP LOK BELL X WC X PE, T1/P-401	\$	2,097.58	0.00	DI INTERIOR
3200							
3210	48" BNRE 1 & 2 EFF (M-21,22)						
3220		48"X03'-02"	DI WALL PIPE HP LOK BELL X WC X PE, T1/P-401	\$	2,580.10	0.00	DI INTERIOR
3230							
3240	CAPS FOR EXISTING LINES AT BASINS (M-21,22)						

Revised:
42"x03'-00"



Attachment A-1

PROJECT NAME: FRANKLIN WRF MODIFICATIONS & EXPANSION PROJECT

ROW	QTY	SIZE	DESCRIPTION	UNIT	TOTAL	EXT WEIGHT	AREA
16610		54X30"	DI HP LOK TEE, P-401	\$	32,949.57	7,469.00	DI UNDERGROUND
16620		30"X05'-00"	DIP SPOOL PC 200 TR-FLEX PE X TR-FLEX PE, P-401	\$	2,417.21	1,790.00	DI UNDERGROUND
16630		30"	DI TR-FLEX 45 BEND, P-401	\$	6,662.21	1,643.00	DI UNDERGROUND
16640		30X24"	DI TR-FLEX REDUCER, P-401	\$	6,097.26	1,290.00	DI UNDERGROUND
16650		24"	DI TR-FLEX PIPE PC 300, P-401	\$	122.43	1,954.00	DI UNDERGROUND
16660		24"	DI C153 MJ SOLID SLEEVE, P-401	\$	1,895.39	334.22	DI UNDERGROUND
16670		24"	EBAA 1100 MEGALUG ACC SET	\$	386.48	300.00	DI UNDERGROUND
16680							
16690			P14 - 42" RWW TO BNR BASIN 1 (C-52)				
16700		42"	DI HP LOK PIPE PC 150, P-401	\$	237.84	6,768.00	DI UNDERGROUND
16710		42"X02'-00"	DIP SPOOL PC 150 HP LOK BELL X HP LOK PE, P-401	\$	1,621.07	1,236.00	DI UNDERGROUND
16720		42"	DI HP LOK 90 BEND, P-401	\$	14,686.64	7,500.00	DI UNDERGROUND
16730		42"X03'-00"	DIP SPOOL PC 150 TR-FLEX PE X TR-FLEX PE, P-401	\$	2,809.54	1,432.00	DI UNDERGROUND
16740		42"X10'-00"	DIP SPOOL PC 150 TR-FLEX PE X TR-FLEX PE, P-401	\$	5,295.30	3,595.00	DI UNDERGROUND
16750							
16760			P15 - 42" RWW TO BNR BASIN 2 (C-52)				
16770		42"	DI TJ PIPE PC 200, P-401	\$	190.62	26,712.00	DI UNDERGROUND
16780		42"	DI HP LOK PIPE PC 200, P-401	\$	253.05	19,080.00	DI UNDERGROUND
16790		42"	DI HP LOK 90 BEND, P-401	\$	14,686.64	11,250.00	DI UNDERGROUND
16800		42"X02'-00"	DIP SPOOL PC 200 HP LOK BELL X HP LOK PE, P-401	\$	1,621.07	1,236.00	DI UNDERGROUND
16810		42"X10'-0"	DIP SPOOL PC 200 HP LOK PE X HP LOK PE, P-401	\$	5,295.30	6,180.00	DI UNDERGROUND
16820		42"X03'-00"	DIP SPOOL PC 150 HP LOK PE X HP LOK PE, P-401	\$	2,809.54	927.00	DI UNDERGROUND
16830		42"	DI HP LOK 11 1/4 BEND, P-401	\$	10,250.99	5,232.00	DI UNDERGROUND
16840							
16850			P16 - 42" RWW TO BNR BASIN 3 (C-52)				
16860		42"	DI TJ PIPE PC 150, P-401	\$	175.39	47,376.00	DI UNDERGROUND
16870		42"	DI HP LOK PIPE PC 150, P-401	\$	237.84	10,152.00	DI UNDERGROUND
16880		42"	DI HP LOK 90 BEND, P-401	\$	14,686.64	11,250.00	DI UNDERGROUND
16890		42"X02'-00"	DIP SPOOL PC 150 HP LOK BELL X HP LOK PE, P-401	\$	1,621.07	1,236.00	DI UNDERGROUND
16900		42"X10'-0"	DIP SPOOL PC 150 HP LOK PE X HP LOK PE, P-401	\$	5,295.30	3,090.00	DI UNDERGROUND
16910		42"X03'-00"	DIP SPOOL PC 150 HP LOK PE X HP LOK PE, P-401	\$	2,809.54	927.00	DI UNDERGROUND
16920							
16930			P17 - 8" WAS/WAS DRAIN LINES (C-52)				
16940		08"	DI TJ PIPE PC 350, P-401	\$	23.14	24,640.00	DI UNDERGROUND
16950		08"	DI C153 MJ WYE, P-401	\$	623.70	326.73	DI UNDERGROUND
16960		08"	DI C153 MJ CAP, P-401	\$	202.03	90.00	DI UNDERGROUND
16970		08"	DI C153 MJ PLUG, P-401	\$	232.10	30.00	DI UNDERGROUND
16980		08"	DI C153 MJ TEE, P-401	\$	404.05	348.32	DI UNDERGROUND
16990		08"	DI C153 MJ 90 BEND, P-401	\$	313.22	117.60	DI UNDERGROUND
17030		08"	DI C153 MJ 45 BEND, P-401	\$	273.72	94.48	DI UNDERGROUND
17040		08"	DI C153 MJ SOLID SLEEVE, P-401	\$	270.38	177.24	DI UNDERGROUND
17050		08"	EBAA 1100 MEGALUG ACC SET	\$	52.12	882.00	DI UNDERGROUND
17060		08"X02'-00"	DIP SPOOL PC 350 TR-FLEX PE X TR-FLEX PE, P-401	\$	276.60	564.00	DI UNDERGROUND

Change Proposal Preparation Checklist

Project Name: Franklin WRF Orig. \$ Cont. Amt. 9132,890,000 Co. / Proj. #: 1044/103925

Change Order / Claim Identification (Name/No) / \$ Amt. CCA 021 - <41,841.00>

Intended Submittal Date: 2/10/20 Public/Private: Public

Lead Preparer Initials	Mgr Review Initials	
<u>KL</u>	<u>[Signature]</u>	1. All major items have adequate supporting schedules and documentation.
<u>KL</u>	<u>[Signature]</u>	2. G&A rate is correct; no other duplicative overhead is included in PCO.
<u>KL</u>	<u>[Signature]</u>	3. Equipment rates used in PCO are in accordance with contract specifications. • Operating expenses are either separately stated or part of the rate. • Stand by rates used per contract or other acceptable method. • 3rd party equipment is billed in accordance with contract specifications.
<u>KL</u>	<u>[Signature]</u>	4. Time Related Overhead calculations are per contract, and are properly supported by the cost report. Items in the TRO are time related expenses, and not lump sum type items. If applicable, contingency items in the TRO are separately identified for transparency.
<u>KL</u>	<u>[Signature]</u>	5. Worksheets were reviewed for accurate formulas; all spreadsheets total and cross check properly.
<u>KL</u>	<u>[Signature]</u>	6. All markups used are in accordance with contract specs.
<u>KL</u>	<u>[Signature]</u>	7. Labor add-on rates were tested and reconciled to union agreements or other supporting documentation; taxes and insurance were verified for accuracy.
<u>KL</u>	<u>[Signature]</u>	8. To the extent required by law or the contract with the owner, contingency items are separately identified and transparent to reader.
<u>KL</u>	<u>[Signature]</u>	9. Subcontractor change proposal has been reviewed and is reasonably supported. (Complete Appendix 3 if Subcontract costs are include in the proposal.)
<u>KL</u>	<u>[Signature]</u>	10. Previously submitted costs are not included in this request.

I have reviewed the Change Proposal and believe it is in compliance with the contract, and specifically the checklist above. To the extent required by Corporate Policy, this will be submitted to Internal Audit for review.

Lead Preparer	<u>[Signature]</u> Name	<u>2/10/20</u> Date
0 - \$100,000	<u>[Signature]</u> Approved by Project Manager	<u>2/10/20</u> Date
\$100,001 - \$500,000	Approved by Sponsor	Date
\$500,001 - \$2,000,000	Approved by Area Manager	Date
	Approved by District Contract Administration Mgr	Date
\$2,000,000+	Approved by District Manager	Date



Kiewit Infrastructure South Co.
4800 North Point Parkway, Suite 100
Alpharetta, GA 30022

March 11, 2020

To: Attn: Mr. Dan Harris

CP-KIEWIT-00011.00

CDM Smith, Inc.
210 25th Avenue North
Suite 1102
Nashville, TN 37203

Reference: Franklin WRF Modifications & Expansion Project
COF Contract No. 2017-0264

Subject: RFI No. 250 – SP-AHU-1 Drywell

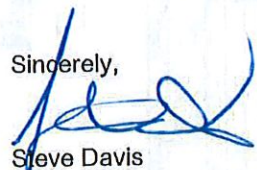
Dear Mr. Harris,

Kiewit is hereby submitting a credit proposal for RFI No. 250 – SP-AHU-1 Drywell in the amount of **Four Thousand Three Hundred Twenty Dollars (\$4,320.00.)**

This credit proposal is for the work outlined in RFI No. 250, eliminating the drywell associated with SP-AHU-1.

If you have any questions, please do not hesitate to contact me at (678) 794-2121.

Sincerely,


Steve Davis
Project Manager

cc: File
Michelle Hatcher



DATE: 03-011-2020

PGO NO. CP-KIEWIT-00011.00

PREPARED BY: Kian Lawlor

[illegible]



JOHN BOUCHARD & SONS CO.
1024 Harrison Street
Nashville, TN 37203
615-256-0112

February 25, 2020

Mr. Michael Callison
Kiewit Water Facilities South Co.
135 Claude Yates Drive
Franklin, TN 37064

RE: Credit Proposal to Eliminate SP-AHU-1 Drywell

Dear Mr. Callison,

Pursuant to CDM Smith's request on the RFI-250 response, we have prepared this credit proposal for eliminating the drywell associated with the SP-AHU-5 drywell.

HVAC Scope Elimination:

- Eliminate drywell serving SP-AHU-1 and route the drain piping from this unit to one of the drains in the adjacent room.
- Eliminate piping in the equipment room and outside that would have fed the drywell from the AHU.
- Credit proposal includes elimination of the associated excavation, gravel, RCP, core drilling, and the manhole casting.
- Detailed cost-loaded spreadsheet attached.

Credit Proposal for Deletion of SP-AHU-1 Drywell **\$ 4,114.00**

Accepted On: _____ 2020

By: _____
SIGNATURE

Print Name: _____

JOHN BOUCHARD & SONS CO.

BY: David Proctor JV
SIGNATURE

Print Name David Proctor

DELETE SP-AHU-5 DRYWELL				Hours/Task	Total Hours
Condensate Piping:					

Condensate Drywells:					
1	24" dia. x 48" concrete bell end drain pipe	ferg-8' section	\$250.00	\$250.00	8 8.00
2	Cubic Yards #57 Stone	Vulcan	\$50.00	\$100.00	6 12.00
1	Core Drill into Drywell		\$100.00	\$100.00	3 3.00
1	Link Seal		\$55.00	\$55.00	1 1.00
1	Neenah R-2510 for bell end	John Mitchell - Foundry	\$550.00	\$550.00	3 3.00
Mini-Ex or Hydrovac - 1/2 Day				\$600.00	4.00
20	1" schedule 80 PVC	ferg quoted	\$0.75	\$15.00	0.05 1.00
4	1" sch80 PVC 90		\$2.50	\$10.00	0.5 2.00
2	1" sch80 PVC couplings		\$3.00	\$6.00	0.5 1.00

Subtotal Plumbing Pipe & Fixtures			Material:	\$1,686.00	Hours: 35.00
-----------------------------------	--	--	-----------	------------	--------------

Subcontractors				LABOR	
				Hours/Task	Total Hours

Subtotal Subcontractors			\$0.00	Hours: 0.00
-------------------------	--	--	--------	-------------

Misc				LABOR	
				Hours/Task	Total Hours

Truck
Project Mgmt
Owner Training
warranty

	\$131.25
--	----------

Subtotal Misc.			\$131.25	Hours: 0.00
----------------	--	--	----------	-------------

FRANKLIN WRF - DELETE SP-AHU-1 DRYWELL	
JBS Labor Hours	35.00
Labor Cost (Plumber Wage Rate - \$60/hr)	\$2,100.00
Subtotal Plumbing Pipe & Fixtures	\$1,686.00
Subtotal Subcontractors	\$0.00
Subtotal Misc.	\$131.25
TOTAL COST	\$3,917.25
MARKUP (OVERHEAD & PROFIT)	5.00%
QUOTED CHANGE ORDER PRICE	-\$4,113.11

CONSTRUCTION CHANGE AUTHORIZATION

TO: Mr. Steve Davis
Project Manager
Kiewit Water Facilities South
4405 International Blvd., NW,
Suite C-101
Norcross, Georgia 30093
(770) 940-8044

FROM: CDM Smith
210 25th Ave. N.
Suite 1102
Nashville, TN 37203
(615) 320-3161

DATE: July 25, 2019

PROJECT: City of Franklin, Tennessee
Franklin WRF Modifications & Expansion Project

CCA NUMBER: 27 **CDM SMITH PROJ. NO.:** 14915-231666

SUBJECT: Headworks 36" Castings **CITY PROJECT NO.:** 2017-0264

REFERENCE: RFI 101 Response, Fig. CCA-27.1

DESCRIPTION:

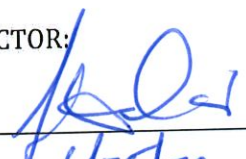
Delete 36" flared castings (2 locations), replace with 36" FL x PE, add vortex breakers per the Engineer's response to RFI 101 and Fig. CCA-27.1.

CDM SMITH:

By: 

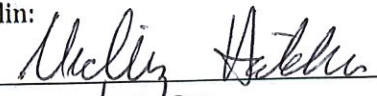
Date: 6/25/20

CONTRACTOR:

By: 

Date: 6/25/20

City of Franklin:

By: 

Date: 9/25/20



Request For Information

RFI Reference No: KIEWIT-RFI-000101
Status: RESP RECD

For Action: Michael Sheston, Kiewit
Steve Davis, Kiewit
Dan Harris, CDM Smith
Jon Allen, CDM Smith

For Info: Tom Lamb, CDM Smith
Jim Townsend, CDM Smith
Brian Goodwin, City of Franklin
Michelle Hatcher, City of Franklin
Neena Bilbo, City of Franklin

Project: Franklin WRF Modification and Expansion Project

Subject: **Headworks 36inch Flare Castings**

See attached Document for RFI Information

Attachments: HEADWORKS SECTIONS I.htm
Headworks 36inch Flare Castings.htm
RFI 101 - 36in Headworks Flare Castings.pdf

Discipline: PIPE

Area: HEADWORKS

Location: EXIST

Proposed Solution:

Specification Reference: 15072 - Ductile Iron Pipe and Fittings

Drawing Reference: M-5

Related RFI No(s):

Schedule Impact:

Cost Impact:

Priority: M - Medium

**Originator's Reference
No :**

Alt. Reference Number:

Response Required By:

RFI by: Stephen Reid, Kiewit
Created By: Corbin Coker, Kiewit
Last Edited By:

On: 25 June 2019
On: 25 June 2019, 02:27:06 PM -05:00
On:

01 - Engineer / Owner Comments

Use of 36" Tapped Flg. X P.E. pieces with wall collar rather than the flare castings for the two outside pipes is acceptable if an acceptable credit is offered. The Flg. X P.E. pieces may be longer to have standard flange connection below the slab rather than a tapped flange in the slab. The hydraulic evaluation of this revised approach also revealed that addition of a vortex prevention device to the middle pipe will be necessary. A separate RFP will be developed to obtain a price for addition of the vortex prevention device.

Engineer / Owner Bob Huguenard, CDM Smith
Comments by:

On: 06 August 2019

Created By: Jon Allen, CDM Smith

On: 06 August 2019, 11:21:13 AM
-05:00

Last Edited By: Jon Allen, CDM Smith

On: 06 August 2019, 11:21:13 AM
-05:00

02 - Response Received / Closeout

Response
Received / Closeout
by:

On:

Created By:

On:

Last Edited By:

On:



Core & Main
1830 Craig Park Court
St Louis, MO
63146

Stephen Reid
Kiewit Water Facilities South
135 Claude Yates Drive
Franklin, TN 37064

RE: 36" BNR @ Headworks Flare Casting

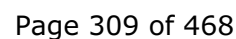
Dear Stephen,

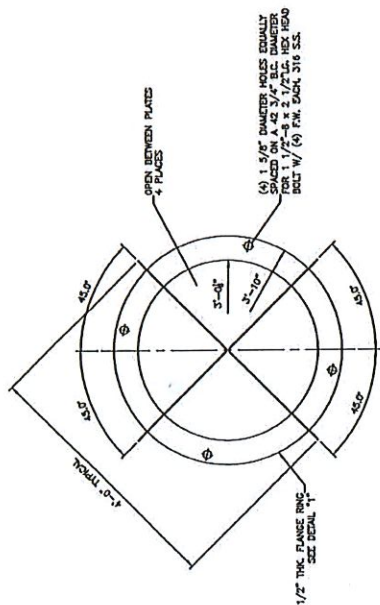
This letter is to address the engineer's comments on our drawing 11-05.5 which is a layout drawing of the engineer's drawing M-5. The 36" Flange x Flare castings are only made 24" long which with the top of flare elevation required being 659.19 would make the face of flange 657.19 and the bottom of the concrete floor 657.32. Not only does the .13 elevation difference does not leave room to assemble the flange x flare casting, but it also does not meet the design requirements. Our proposed solution would be to provide a 36"x01'10-7/16" DI CL53 Tapped FLG x PE w/wall collar 6" from face of flange. This would provide a flange at the bottom of the slab and a plain end to the required 659.19 elevation. Please let us know if this proposed solution would be acceptable.

Regards,

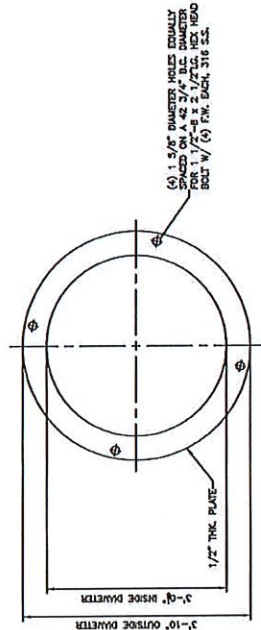
Jared Jones
Sales Representative

Local Knowledge
Local Experience
Local Service, Nationwide®

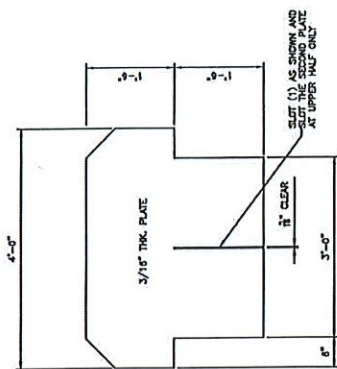




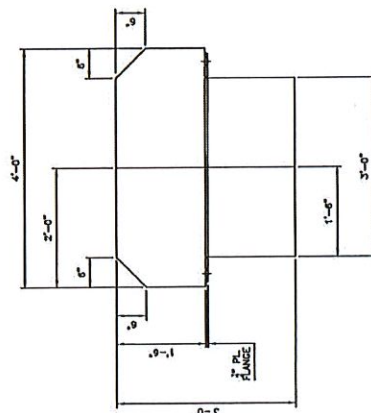
PLAN
SCALE: 1 1/2" = 1'-0"



FLANGE-1/2" THK. SA240 GR. 316L S.S.



SCALE 1 1/2" = 1'-0"



ELEVATION

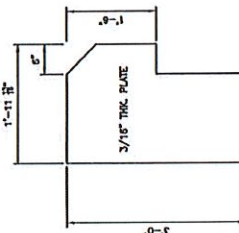
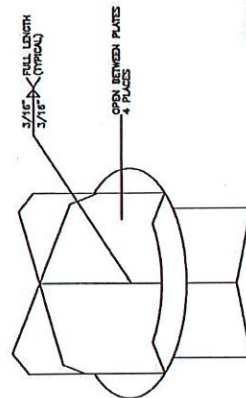


PLATE-3/16" THK. SA240 GR. 316L S.S.
DETAIL 3
SCALE 1 1/2" = 1'-0"



ISOMETRIC VIEW
SCALE: NONE

GENERAL NOTES:

1. MATERIAL OF CONSTRUCTION SHALL BE SA240 OR 316L STAINLESS STEEL.
2. ALL WELD SURFACES SHALL REMAIN IN THE "AS-WELDED" CONDITION WITH "START & STOP" GROUNDS SMOOTH. BASE METAL SURFACES SHALL REMAIN IN THE "STANDARD MILL" CONDITION. REMOVE ALL SHARP CORNERS AND DECREASE ALL SURFACES.



Kiewit

Kiewit Infrastructure South Co.
4405 International Blvd., NW, Suite C-101
Norcross, GA 30093

March 11, 2019

To: Attn: Mr. Dan Harris
CDM Smith, Inc.
210 25th Avenue North
Suite 1102
Nashville, TN 37203

CCA-KIEWIT-00028.00

Reference: Franklin WRF Modifications & Expansion Project
COF Contract No. 2017-0264

Subject: Construction Change Authorization No. 27 – Headworks 36in Flare Casting Substitution

Dear Mr. Harris,

Kiewit is hereby submitting a credit proposal for **Construction Change Authorization No. 27 – Headworks 36in Flare Casting Substitution** in the amount of **Thirteen Thousand Two Hundred Eighty Six Dollars (\$13,286.00)**.

This Construction Change Authorization is intended to delete two 36" flared castings. Kiewit will provide a 36"x01'10-7/16" DI CL53 Tapped FLG x PE with wall collar 6" from face of flange and add anti vortex baffles per the Engineer's response to RFI – 101.

If you have any questions, please do not hesitate to contact me at (678) 794-2121.

Sincerely,

Steve Davis
Project Manager

cc: File
Michelle Hatcher



CCA NO.: 027 Headworks 36" Castings

PREPARED BY: KIM LAWLER

DESCRIPTION	QTY	UNIT	MH Per Unit	Total MH	DIRECT LABOR		INDIRECT LABOR		MATERIAL		CONST. EQUIPMENT		SUBCONTRACT		OTHER		TOTAL AMOUNT
					Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	
LABOR																	
INSTALL BOLT'S @ 125 MH/EA	8.0	EA				\$ 488.32											\$ 488.32
Foreman	1.0	EA	1.0	8.0		\$ 545.36											\$ 545.36
Iron Worker (Building)	1.0	EA	1.0	8.0													
INSTALL VORTEX BREAKER @ 2 MH/EA	1.0	EA				\$ 122.08											\$ 122.08
Foreman	1.0	EA	2.0	2.0		\$ 272.88											\$ 272.88
Iron Worker (Building)	2.0	EA	2.0	4.0		\$ 92.90											\$ 92.90
Forming/Crime Operator	1.0	EA	2.0	2.0													
MATERIALS																	
36" Tapped Flange x PE Castings in lieu of 36" Flange Castings	1.0	LS							\$ (22,702.36)	\$ (22,702.36)							\$ (22,702.36)
Vortex Breakers per Engineer's response to RFI 101	1.0	LS							\$ 7,040.00	\$ 7,040.00							\$ 7,040.00
Hex Head Bolt (4 per Vortex Breaker)	2.0	BOX							\$ 483.00	\$ 986.00							\$ 986.00
CONST. EQUIPMENT																	
Crane 15 TN	2.0	HR									\$ 186.50	\$ 373.80					\$ 373.80
**Construction Equipment Ownership & Operating Costs are based on Blue Book FHWA Rates.																	
OTHER																	
ST's - small tools, consumables, safety equip. (5% of direct labor, plus 6% sales tax: Formula = Total Direct Labor Subtotal * .05 * 1.0625)	24																\$ 3.48
TAX (9.75% of Material, Equipment, Other)																	\$ 83.48
BOND (2% of total)																	\$ 44.59
SUBTOTALS (NET INCREASE IN COST)						\$ 1,527.34				\$ (14,676.36)		\$ 410.25					\$ 91.62
MARKUP % (NET INCREASE IN COST)						\$ 2,000				\$ 5,000		\$ 20.51					\$ 4.58
SUBTOTALS WITH MARKUPS APPLIED						\$ 76.07				\$ 733.82		\$ 20.51					\$ 13,286.00
BOND																	\$ 13,286.00
TOTAL																	\$ 13,286.00



**SOUTHEAST REGION TREATMENT
PLANT DIVISION**

- ALABAMA - FLORIDA - GEORGIA - KENTUCKY - NORTH CAROLINA - SOUTH CAROLINA - TENNESSEE -

6525 US HWY 301 NORTH
TAMPA, FL. 33610
OFFICE: 813.621.1971
FAX: 813.621.3280

Owner City of Franklin, Tennessee
Contractor Kiewit Water Facilities South
Ref RFI-0101

			Unit Price	Total Price
SEQ	Qty	Description		
10		<u>ALL ITEMS ARE AIS COMPLIANT</u>		
20				
30		-2 36" DI C110 FLG X FLARE CP P401/T1	\$ 15,277.87	\$ (30,555.74)
40		2 36"X01'10-7/16" DI CL53 TFLG X WC X PEMJ W/WC 6" FROM FLG P401/T1	\$ 3,926.69	\$ 7,853.38
50				
60				
70				
80				
90				
100				
110		<u>TOTAL QUOTE</u>		<u>\$ (22,702.36)</u>

HME, INC.

HAAS METAL ENGINEERING

2828 NW Button Road
Topeka, KS 66618
Phone: 785-235-1524



Change Order Request

Owner: Kiewit Infrastructure South Co.
4405 International Blvd., NW, Suite C-101
Norcross, GA 30093

Project: 18.097 / FRANKLIN WRF
135 CLAUDE YATES DR.
FRANKLIN, TN 37064

COR# 2: ANTI VORTEX BAFFLE

\$7,040.00

(1) ANTI VORTEX BAFFEL PER DETAIL DATED AUGUST 2019

1: ANTI VORTEX BAFFLE

TOTAL, THIS CHANGE ORDER REQUEST

\$7,040.00

Approved By: Kiewit Infrastructure South Co.

Signed: _____

Date: _____

Submitted By: HME, Inc.

Signed: _____

Date: _____

Bolts - Vortex Breaker Anchor to Slab



PRODUCTS / SERVICES / ENGINEERING / COMPANY / CAREERS

Home / Products / Fasteners / Wedge Anchors / Kwik Bolt 3 SS 316



★★★★★

KWIK BOLT 3 SS 316

Premium ●●●●●

Exp anchor KB3 1" x 6" SS316 #286036

High-performance wedge anchor with everyday approvals for uncracked concrete (316 stainless steel)

- Material, corrosion: Stainless Steel, 316
- Head configuration: Externally threaded
- Approvals / Test reports: ICC-ES report (concrete), LABC, Nuclear (NOA-1)

More technical data >

SHARE

SELECT OPTIONS

START OVER

Anchor size

1/4 in 3/8 in 1/2 in 5/8 in 3/4 in **1 in**

Anchor length

2-1/4 in 3 in 3-1/4 in 3-3/4 in 4-1/2 in 4-3/4 in 5-1/2 in **6 in** 10 in

Package content

• 1x KB3 SS316 1X6 Stud anchor assy

Pack size

1 pc **5 pc** 10 pc 15 pc 20 pc 25 pc 50 pc 100 pc

LOG IN to see your company prices

Discounted net

\$493.00

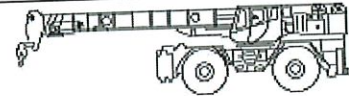
\$493.00 / 1 Box

Quantity

Box Total pieces 5

Rental Rate Blue Book®

Tadano GR-800XL-1 (disc. 2010)
Rough Terrain Hydraulic Cranes



Size Class:
66.0 - 80.9 MTons
Weight:
107965 MT

Configuration for GR-800XL-1 (disc. 2010)

Axle Configuration	4 X 4 X 4	Maximum Boom Length	144.4 ft
Maximum Lift Capacity	72.6 mt	Net Horsepower	270.0 hp
Power Mode	Diesel		

Blue Book Rates

** FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs	FHWA Rate**
	Monthly	Weekly	Daily	Hourly	Hourly	Hourly
Published Rates	USD \$15,580.00	USD \$4,365.00	USD \$1,090.00	USD \$165.00	USD \$98.38	USD \$186.90
Adjustments						
Region (100%)	-	-	-	-		
Model Year (2010: 100%)	-	-	-	-		
Adjusted Hourly Ownership Cost (100%)	-	-	-	-		
Hourly Operating Cost (100%)					USD \$98.38	USD \$186.90
Total:	USD \$15,580.00	USD \$4,365.00	USD \$1,090.00	USD \$165.00	USD \$98.38	USD \$186.90

Non-Active Use Rates

Standby Rate
Idling Rate

Hourly
USD \$47.80
USD \$122.50

Rate Element Allocation

Element	Percentage	Value
Depreciation (ownership)	37%	USD \$5,764.60/mo
Overhaul (ownership)	45%	USD \$7,011.00/mo
CFC (ownership)	10%	USD \$1,558.00/mo
Indirect (ownership)	7%	USD \$1,090.60/mo
Fuel (operating) @ USD 3.07	35%	USD \$33.98/hr

Revised Date: 2nd half 2019

These are the most accurate rates for the selected Revision Date(s). However, due to more frequent online updates, these rates may not match Rental Rate Blue Book Print. Visit the Cost Recovery Product Guide on our Help page for more information.

The equipment represented in this report has been exclusively prepared for HENRY ALVARADO
(Henry.Alvarado@kiewit.com)

CONSTRUCTION CHANGE AUTHORIZATION

TO: Mr. Steve Davis
Project Manager
Kiewit Water Facilities South
4405 International Blvd., NW,
Suite C-101
Norcross, Georgia 30093
(770) 940-8044

FROM: CDM Smith
210 25th Ave. N.
Suite 1102
Nashville, TN 37203
(615) 320-3161

DATE: July 25, 2019

PROJECT: City of Franklin, Tennessee
Franklin WRF Modifications & Expansion Project

CCA 27
NUMBER:

CDM SMITH PROJ. NO.: 14915-231666

SUBJECT: Headworks 36" Castings

CITY PROJECT NO.: 2017-0264

REFERENCE: RFI 101 Response, Fig. CCA-27.1

DESCRIPTION:

Delete 36" flared castings (2 locations), replace with 36" FL x PE, add vortex breakers per the Engineer's response to RFI 101 and Fig. CCA-27.1.

CDM SMITH:

CONTRACTOR:

By: _____

By: _____

Date: _____

Date: _____

City of Franklin:

By: _____

Date: _____



Request For Information

RFI Reference No: KIEWIT-RFI-000101
Status: RESP RECD

For Action: Michael Sheston, Kiewit
Steve Davis, Kiewit
Dan Harris, CDM Smith
Jon Allen, CDM Smith

For Info: Tom Lamb, CDM Smith
Jim Townsend, CDM Smith
Brian Goodwin, City of Franklin
Michelle Hatcher, City of Franklin
Neena Bilbo, City of Franklin

Project: Franklin WRF Modification and Expansion Project

Subject: **Headworks 36inch Flare Castings**

See attached Document for RFI Information

Attachments: HEADWORKS SECTIONS I.htm
Headworks 36inch Flare Castings.htm
RFI 101 - 36in Headworks Flare Castings.pdf

Discipline: PIPE

Area: HEADWORKS

Location: EXIST

Proposed Solution:

Specification Reference: 15072 - Ductile Iron Pipe and Fittings

Drawing Reference: M-5

Related RFI No(s):

Schedule Impact:

Cost Impact:

Priority: M - Medium

**Originator's Reference
No :**

Alt. Reference Number:

Response Required By:

RFI by: Stephen Reid, Kiewit
Created By: Corbin Coker, Kiewit
Last Edited By:

On: 25 June 2019
On: 25 June 2019, 02:27:06 PM -05:00
On:

01 - Engineer / Owner Comments

Use of 36" Tapped Flg. X P.E. pieces with wall collar rather than the flare castings for the two outside pipes is acceptable if an acceptable credit is offered. The Flg. X P.E. pieces may be longer to have standard flange connection below the slab rather than a tapped flange in the slab. The hydraulic evaluation of this revised approach also revealed that addition of a vortex prevention device to the middle pipe will be necessary. A separate RFP will be developed to obtain a price for addition of the vortex prevention device.

Engineer / Owner Bob Huguenard, CDM Smith
Comments by:

On: 06 August 2019

Created By: Jon Allen, CDM Smith

On: 06 August 2019, 11:21:13 AM
-05:00

Last Edited By: Jon Allen, CDM Smith

On: 06 August 2019, 11:21:13 AM
-05:00

02 - Response Received / Closeout

Response
Received / Closeout
by:

On:

Created By:

On:

Last Edited By:

On:



Core & Main
1830 Craig Park Court
St Louis, MO
63146

Stephen Reid
Klewit Water Facilities South
135 Claude Yates Drive
Franklin, TN 37064

RE: 36" BNR @ Headworks Flare Casting

Dear Stephen,

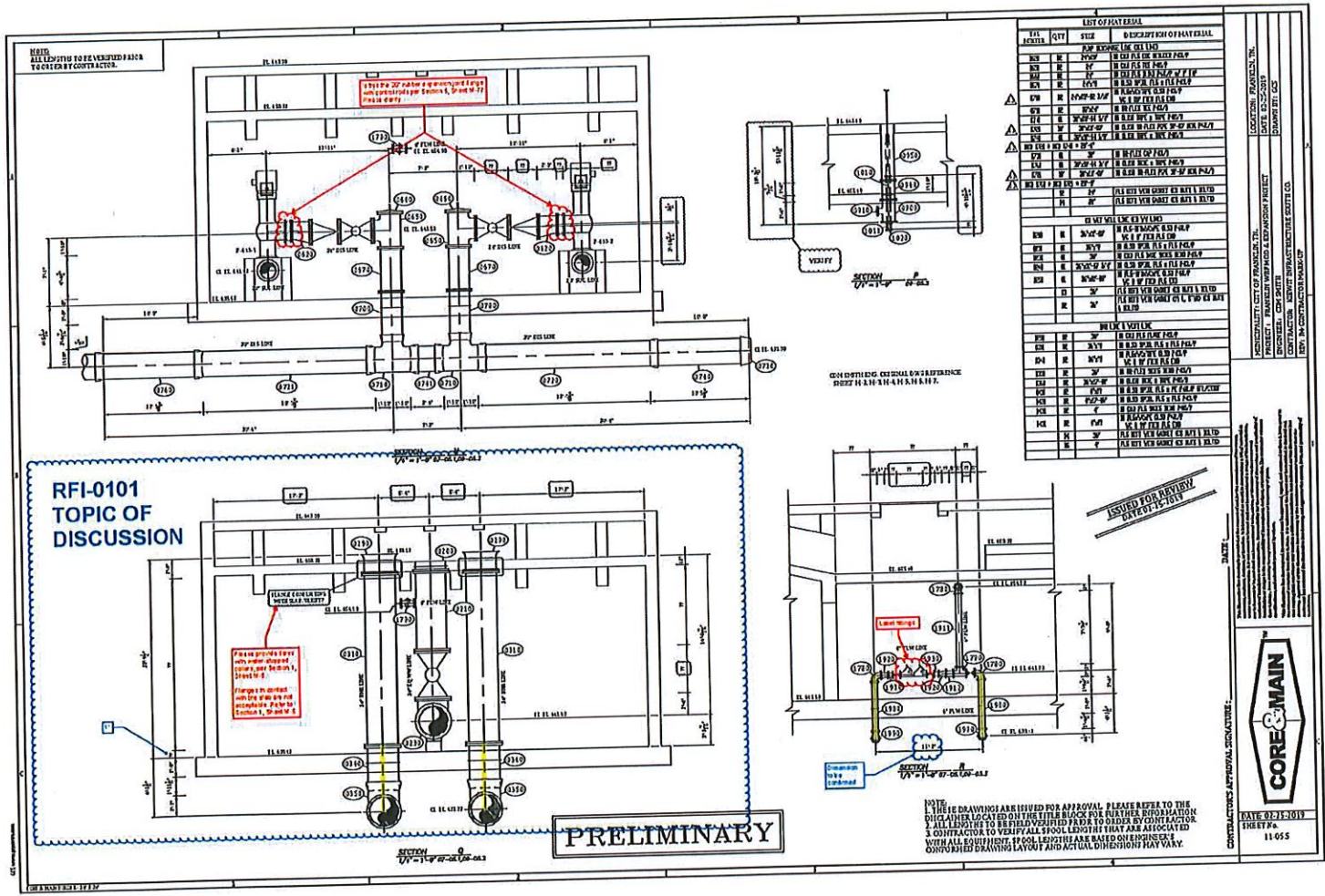
This letter is to address the engineer's comments on our drawing 11-05.5 which is a layout drawing of the engineer's drawing M-5. The 36" Flange x Flare castings are only made 24" long which with the top of flare elevation required being 659.19 would make the face of flange 657.19 and the bottom of the concrete floor 657.32. Not only does the .13 elevation difference does not leave room to assemble the flange x flare casting, but it also does not meet the design requirements. Our proposed solution would be to provide a 36"x01'10-7/16" DI CL53 Tapped FLG x PE w/wall collar 6" from face of flange. This would provide a flange at the bottom of the slab and a plain end to the required 659.19 elevation. Please let us know if this proposed solution would be acceptable.

Regards,

A handwritten signature in black ink, appearing to read "Jared Jones", with a stylized flourish at the end.

Jared Jones
Sales Representative

Local Knowledge
Local Experience
Local Service, Nationwide®



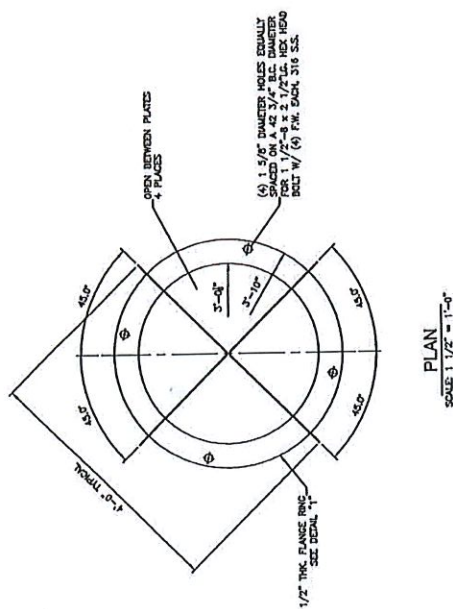
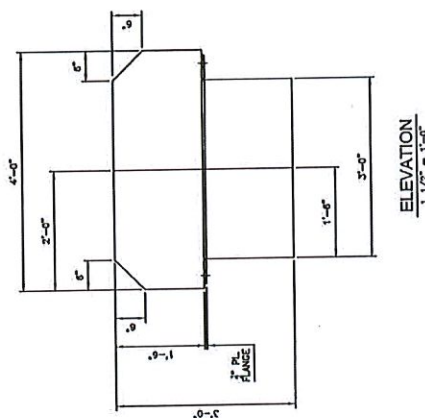
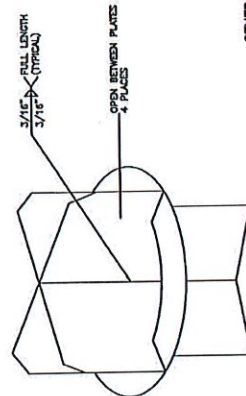


PLATE-3/16" THK. SA240 GR. 316L SS
DETAIL 2
 SCALE: 1 1/2" = 1'-0"

FLANGE-1/2" THK. SA240 GR. 316L S.S.



SCALE 1 1/2" = 1'-0"



ISOMETRIC VIEW
SCALE: NONE

GENERAL NOTES:

1. MATERIAL OF CONSTRUCTION SHALL BE SA440 OR 316L STAINLESS STEEL.
2. ALL WELD SURFACES SHALL REMAIN IN THE "AS-WELDED" CONDITION WITH "START & STOP" GRINDING SMOOTH. BASE METAL SURFACES SHALL REMAIN IN THE "STANDARD MILL" CONDITION. REMOVE ALL SHARP CORNERS AND DEBURR ALL SURFACES.

CONSTRUCTION CHANGE AUTHORIZATION

TO: Mr. Steve Davis
Project Manager
Kiewit Water Facilities South
4405 International Blvd., NW,
Suite C-101
Norcross, Georgia 30093
(770) 940-8044

FROM: CDM Smith
210 25th Ave. N.
Suite 1102
Nashville, TN 37203
(615) 320-3161

DATE: December 31, 2019

PROJECT: City of Franklin, Tennessee
Franklin WRF Modifications & Expansion Project

CCA NUMBER: 007, Rev 1

CDM SMITH PROJ. NO.: 14915-231666

SUBJECT: Valve Tagging

CITY PROJECT NO.: 2017-0264

REFERENCE: Sheets C-18 – C-27, M-2, I-12 – I-59

DESCRIPTION: The purpose of this Construction Change Authorization revision is to supplement the valve tags originally provided under the cover of CCA 007 by providing additional valve tags to numerous untagged valves across the project. Please refer to the original CCA 007 for the valve tag selection criteria. Enclosed are marked up conformed drawings with valves highlighted or added (as applicable) accompanied by text noting the new tags.

CDM SMITH:

By: 

Date: 4/25/20

CONTRACTOR:

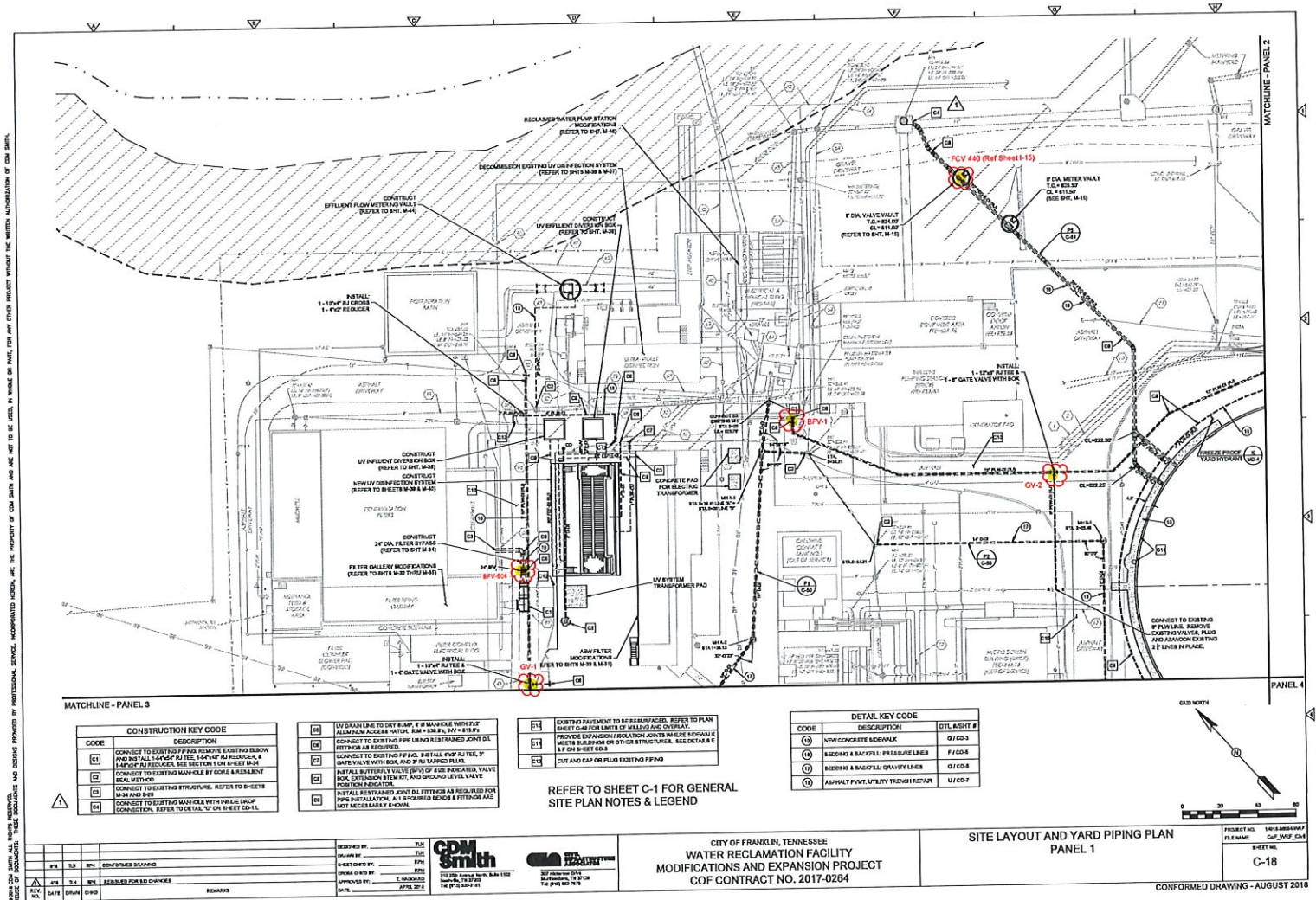
By: 

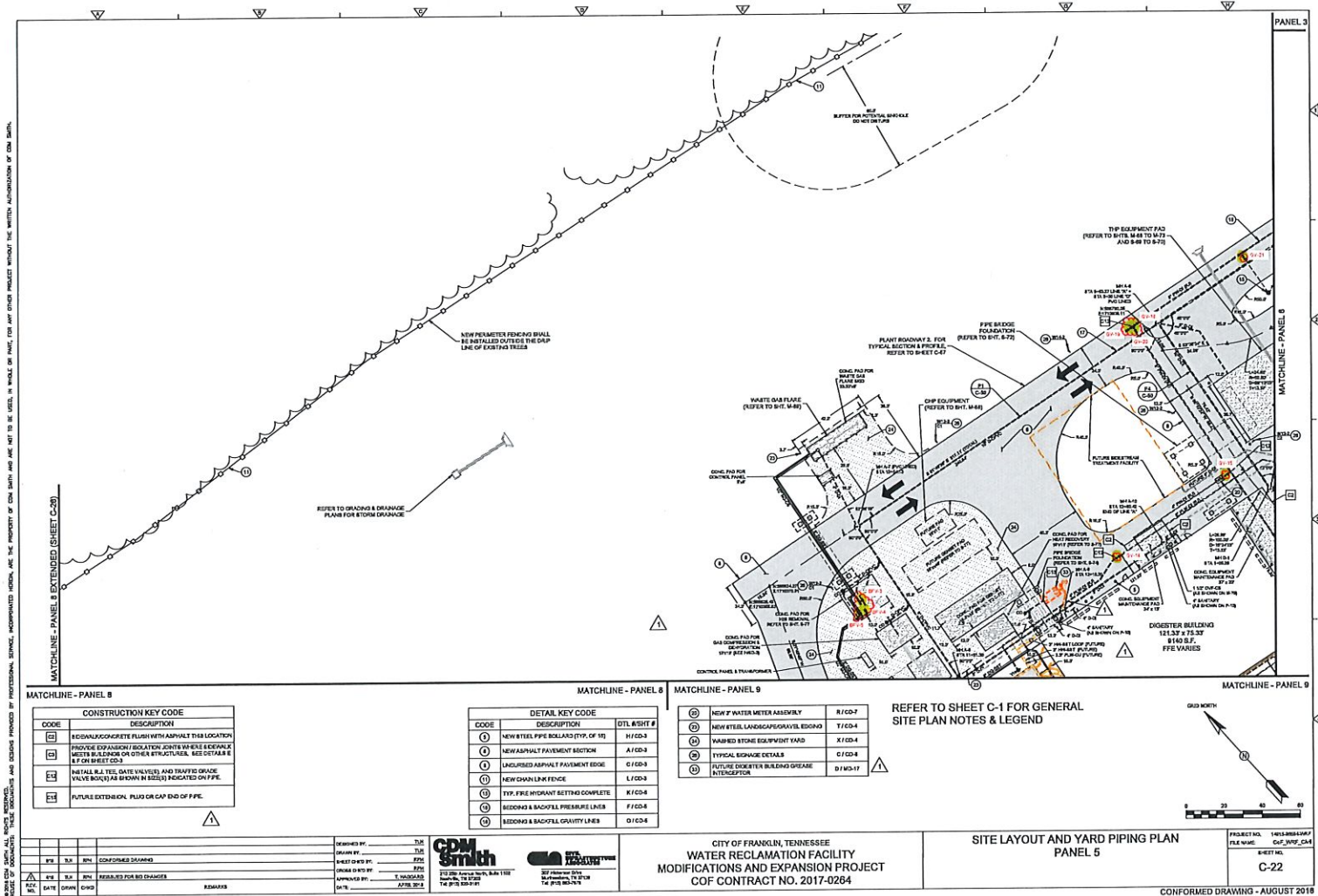
Date: 6/25/20

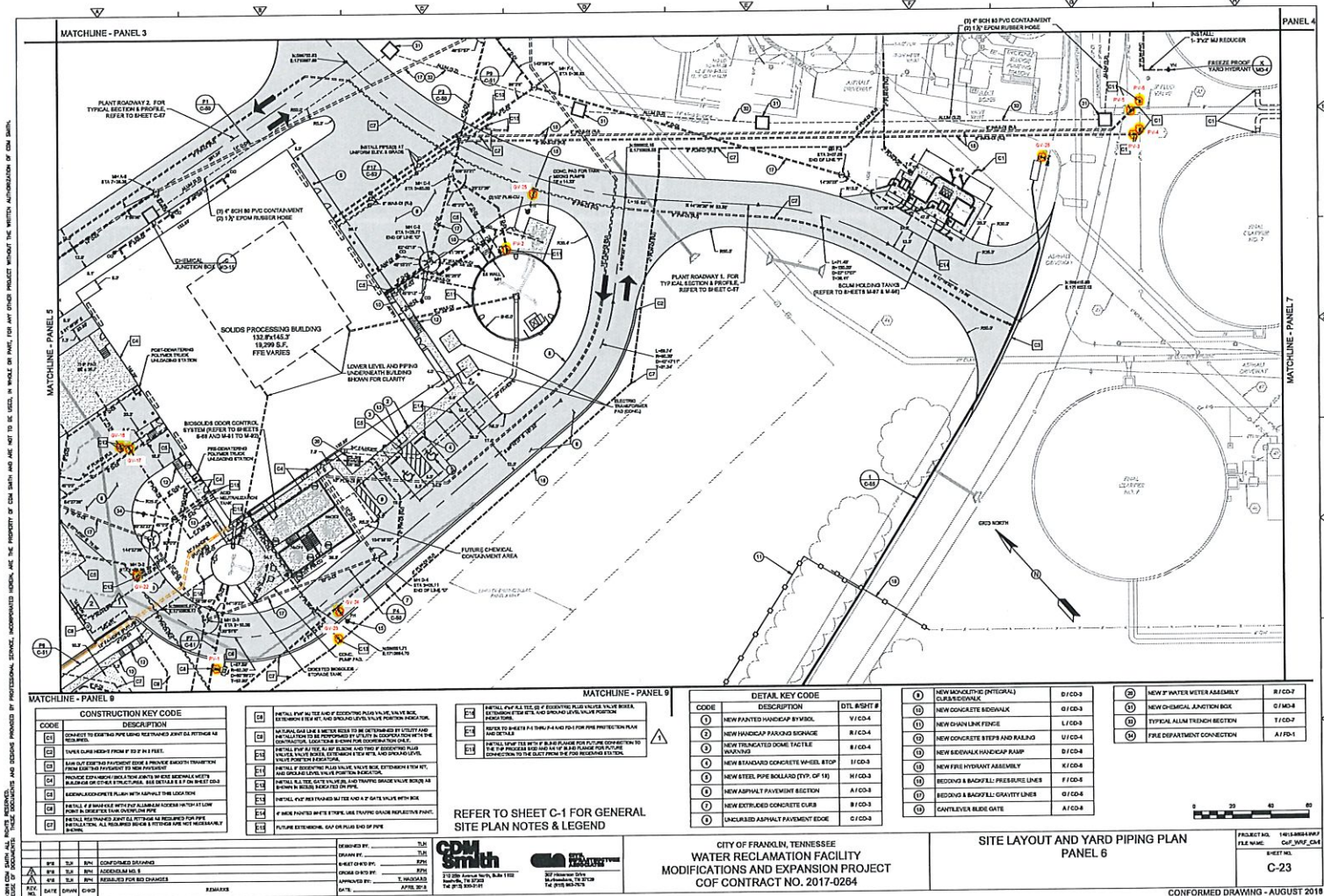
City of Franklin:

By: 

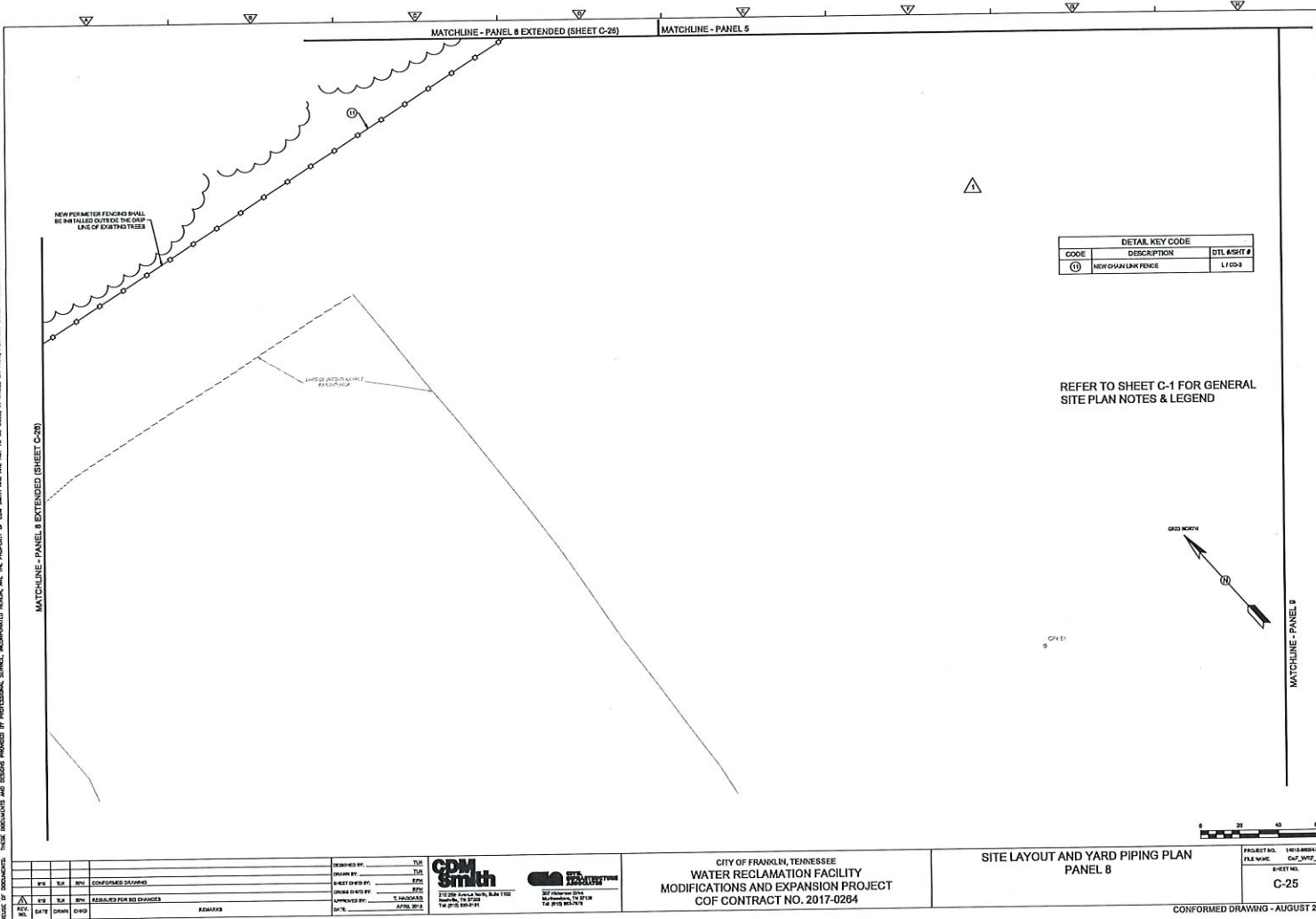
Date: 6/25/20



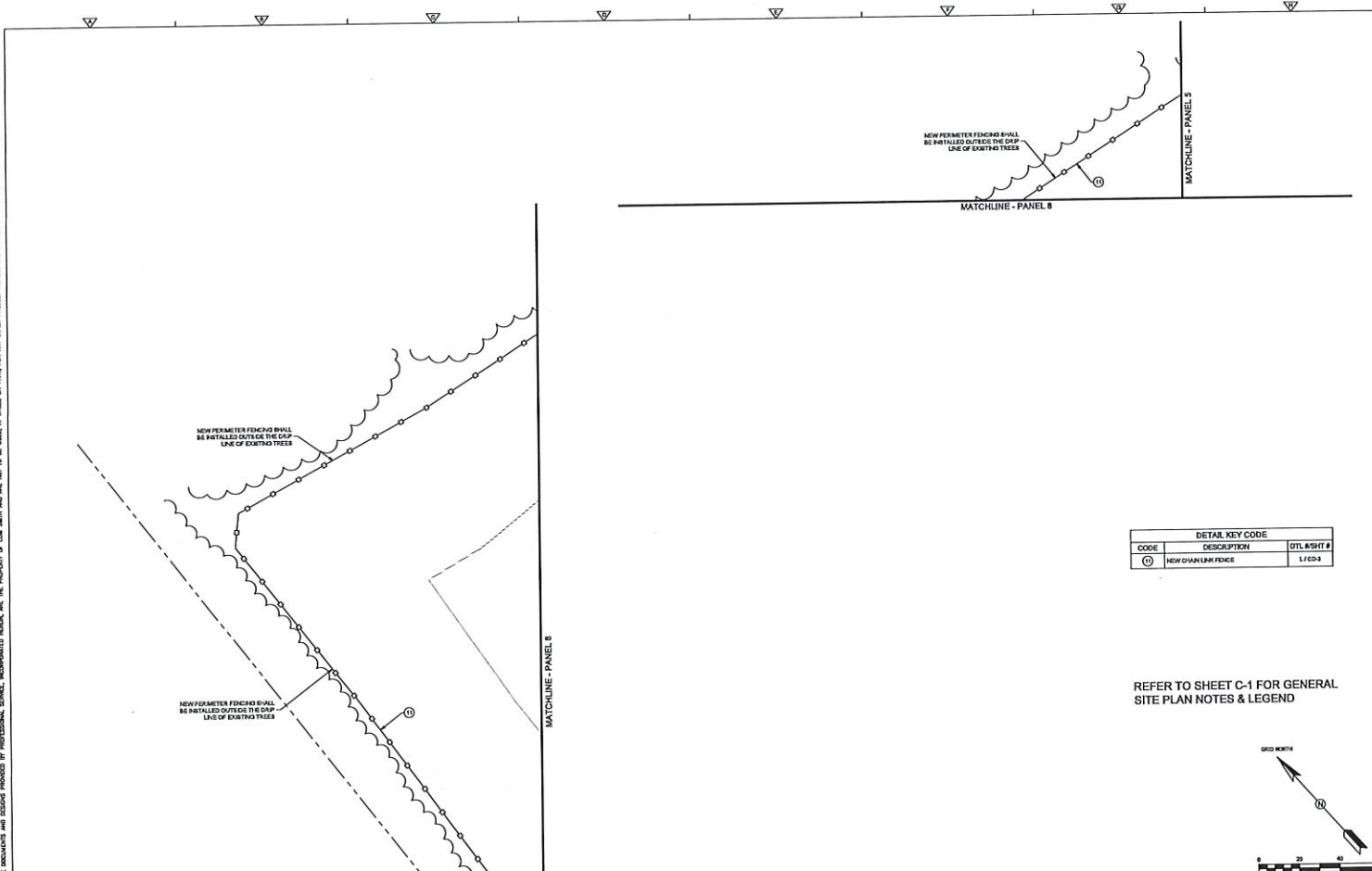




THIS DRAWING IS THE PROPERTY OF GDM SMITH. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREON. ANY REUSE OR MODIFICATION OF THIS DRAWING WITHOUT THE WRITTEN AUTHORIZATION OF GDM SMITH IS PROHIBITED. THE USER OF THIS DRAWING SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR OBTAINING ALL NECESSARY INFORMATION FROM THE APPROPRIATE AGENCIES. THE USER OF THIS DRAWING SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY INFORMATION FROM THE APPROPRIATE AGENCIES.

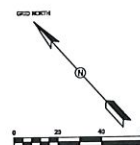


THIS DRAWING IS THE PROPERTY OF GDM SMITH AND SHOULD NOT BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT THE WRITTEN PERMISSION OF GDM SMITH.



DETAIL KEY CODE		
CODE	DESCRIPTION	DTL. SHEET #
(C)	NEW CHAINLINK FENCE	L/C0-3

REFER TO SHEET C-1 FOR GENERAL SITE PLAN NOTES & LEGEND



REV.	DATE	BY	CHKD.	DESCRIPTION
1	08/15/18	JLS	JLS	CONFORMED DRAWING

DESIGNED BY: JLS
 DRAWN BY: JLS
 CHECKED BY: JLS
 INCHES: 1" = 40'-0"
 UNITS: FEET
 DATE: 08/15/18

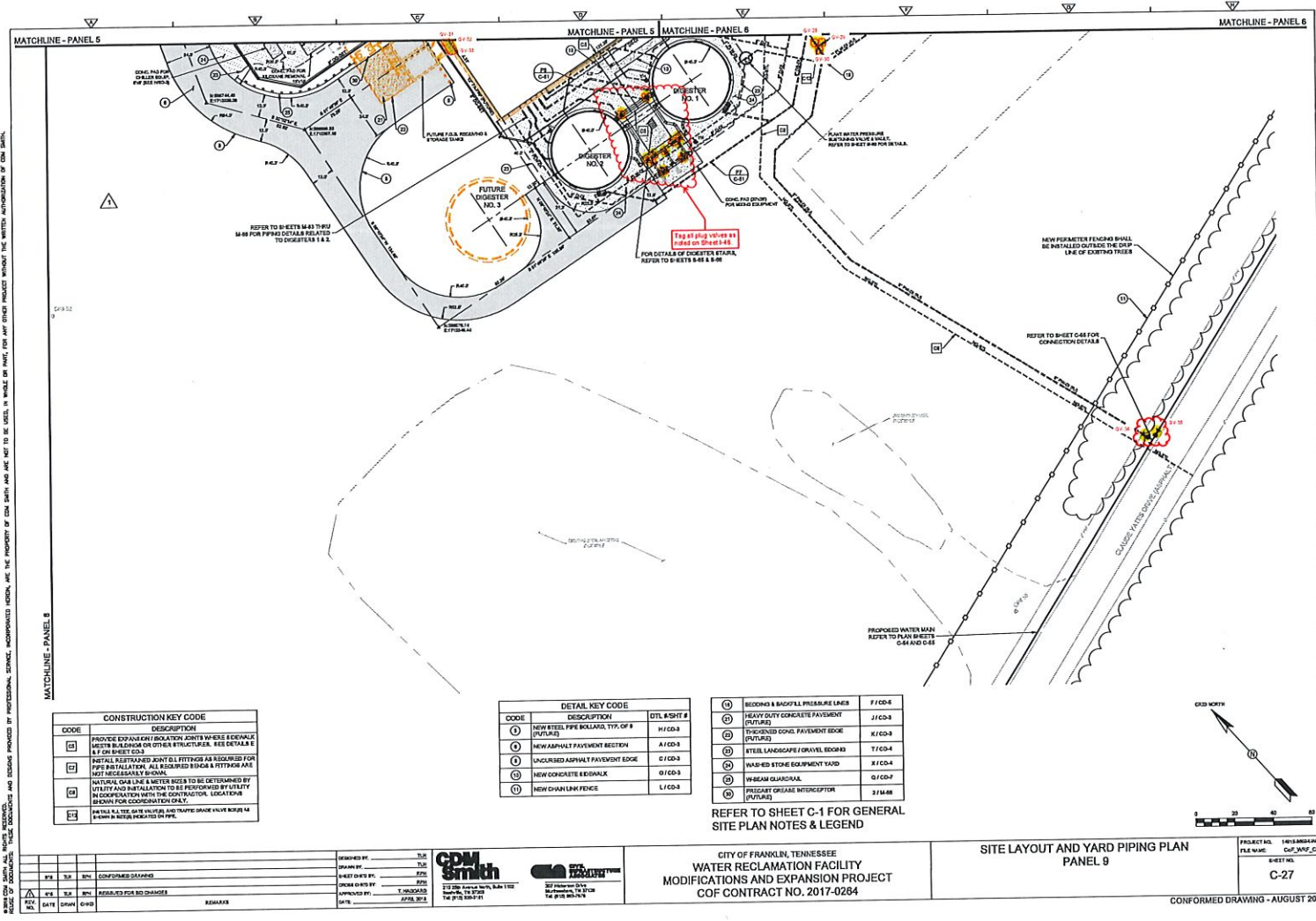
GDM Smith
 212 2nd Avenue North, Suite 1100
 Nashville, TN 37203
 Tel: 615.261.1100

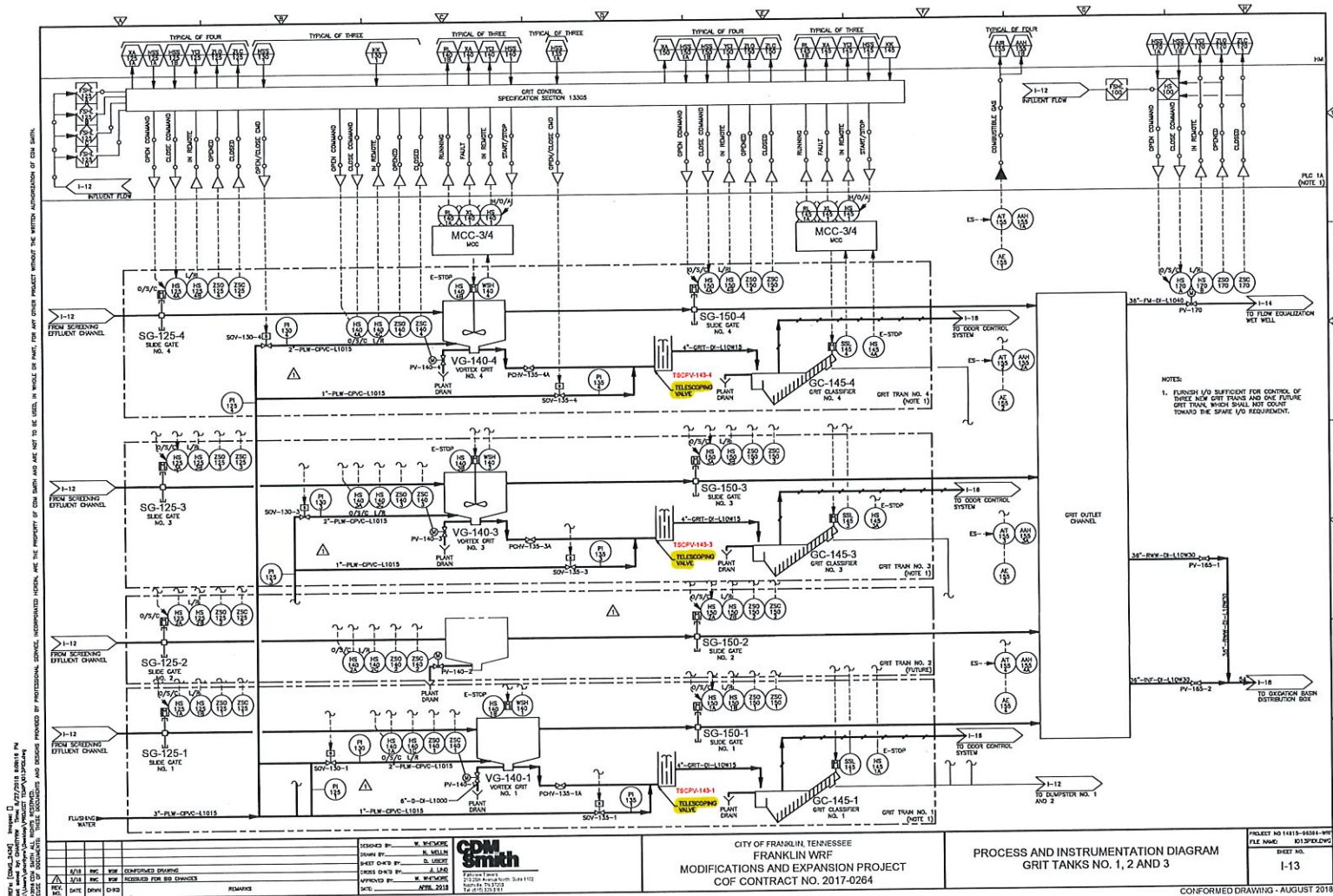
CITY OF FRANKLIN, TENNESSEE
 WATER RECLAMATION FACILITY
 MODIFICATIONS AND EXPANSION PROJECT
 COF CONTRACT NO. 2017-0264

SITE LAYOUT AND YARD PIPING PLAN
 PANEL 8 - EXTENDED

PROJECT NO. 180100000000
 FILE NAME: Cof_300F_Cof
 SHEET NO. C-26

CONFORMED DRAWING - AUGUST 2018





DATE: 08/13/2018
 DRAWN BY: J. WILSON
 CHECKED BY: J. WILSON
 DESIGNED BY: J. WILSON
 PROJECT NO: 14115-16004-100
 SHEET NO: 1-13

DESIGNED BY: J. WILSON
 CHECKED BY: J. WILSON
 DESIGNED BY: J. WILSON
 PROJECT NO: 14115-16004-100
 SHEET NO: 1-13

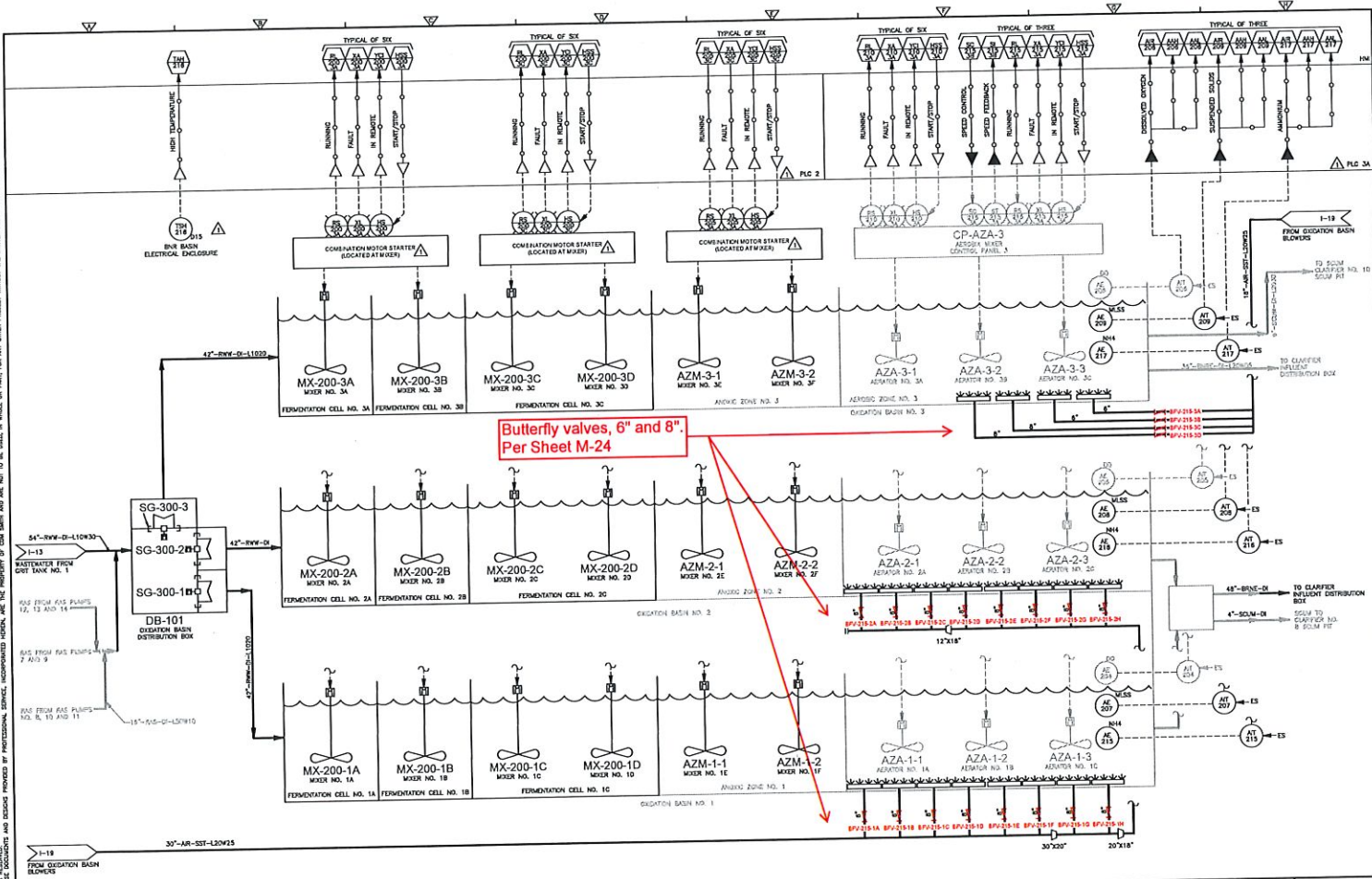
CITY OF FRANKLIN, TENNESSEE
 FRANKLIN WRF
 MODIFICATIONS AND EXPANSION PROJECT
 COF CONTRACT NO. 2017-0264

PROCESS AND INSTRUMENTATION DIAGRAM
 GRIT TANKS NO. 1, 2 AND 3

PROJECT NO: 14115-16004-100
 FILE NAME: 101-SP102.DWG
 SHEET NO: 1-13

CONFORMED DRAWING - AUGUST 2018

THIS DRAWING IS THE PROPERTY OF GDM SMITH AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT THE WRITTEN PERMISSION OF GDM SMITH. ANY UNAUTHORIZED REPRODUCTION OR TRANSMISSION OF THIS DRAWING IS A VIOLATION OF THE COPYRIGHT LAWS OF THE UNITED STATES OF AMERICA AND MAY BE SUBJECT TO CIVIL AND CRIMINAL PENALTIES.

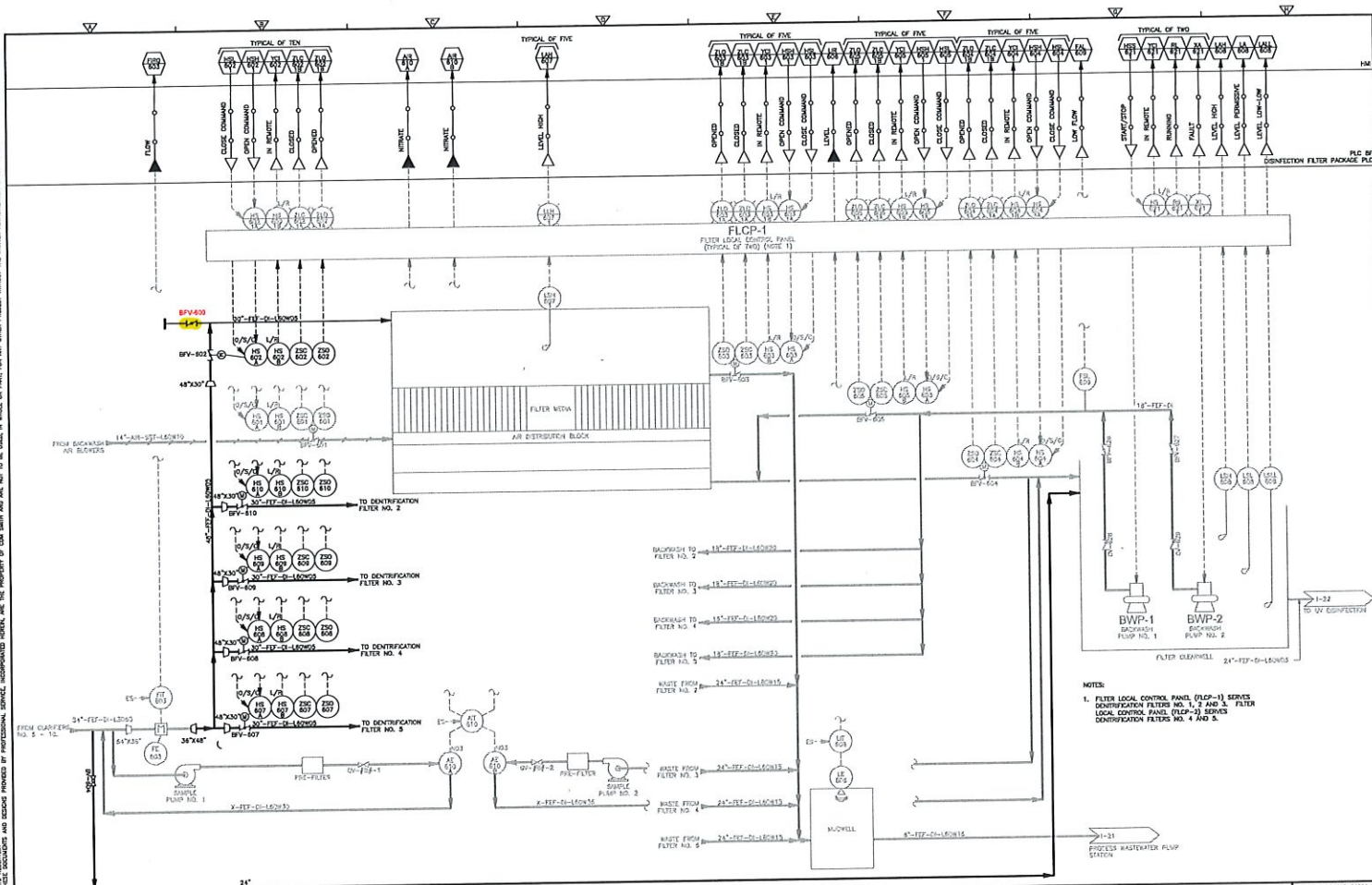


Butterfly valves, 6" and 8"
Per Sheet M-24

				DESIGNED BY: W. WICKMAN DRAWN BY: S. WICKMAN CHECKED BY: J. L. WICKMAN APPROVED BY: W. WICKMAN DATE: APRIL 2018		CITY OF FRANKLIN, TENNESSEE FRANKLIN WRF MODIFICATIONS AND EXPANSION PROJECT COF CONTRACT NO. 2017-0264		PROCESS AND INSTRUMENTATION DIAGRAM OXIDATION BASINS		PROJECT NO. 14113-0424-WP FILE NAME: 1818PDL.DWG SHEET NO. 1-18														
REVISIONS <table><thead><tr><th>NO.</th><th>DATE</th><th>BY</th><th>CHKD</th><th>DESCRIPTION</th></tr></thead><tbody><tr><td>4/18</td><td>11/18</td><td>W. WICKMAN</td><td>S. WICKMAN</td><td>CONFORMED DRAWING</td></tr><tr><td>5/18</td><td>11/18</td><td>W. WICKMAN</td><td>S. WICKMAN</td><td>REVISION FOR BLDG CHANGES</td></tr></tbody></table>				NO.	DATE	BY	CHKD	DESCRIPTION	4/18	11/18	W. WICKMAN	S. WICKMAN	CONFORMED DRAWING	5/18	11/18	W. WICKMAN	S. WICKMAN	REVISION FOR BLDG CHANGES	CDM Smith 2120A North Main, Suite 1102 Franklin, TN 37067 Tel. 615.721.1411					
NO.	DATE	BY	CHKD	DESCRIPTION																				
4/18	11/18	W. WICKMAN	S. WICKMAN	CONFORMED DRAWING																				
5/18	11/18	W. WICKMAN	S. WICKMAN	REVISION FOR BLDG CHANGES																				
REVISIONS <table><thead><tr><th>DATE</th><th>BY</th><th>CHKD</th><th>DESCRIPTION</th></tr></thead><tbody><tr><td>11/18</td><td>W. WICKMAN</td><td>S. WICKMAN</td><td>CONFORMED DRAWING</td></tr><tr><td>11/18</td><td>W. WICKMAN</td><td>S. WICKMAN</td><td>REVISION FOR BLDG CHANGES</td></tr></tbody></table>				DATE	BY	CHKD	DESCRIPTION	11/18	W. WICKMAN	S. WICKMAN	CONFORMED DRAWING	11/18	W. WICKMAN	S. WICKMAN	REVISION FOR BLDG CHANGES					CONFIRMED DRAWING - AUGUST 2018				
DATE	BY	CHKD	DESCRIPTION																					
11/18	W. WICKMAN	S. WICKMAN	CONFORMED DRAWING																					
11/18	W. WICKMAN	S. WICKMAN	REVISION FOR BLDG CHANGES																					

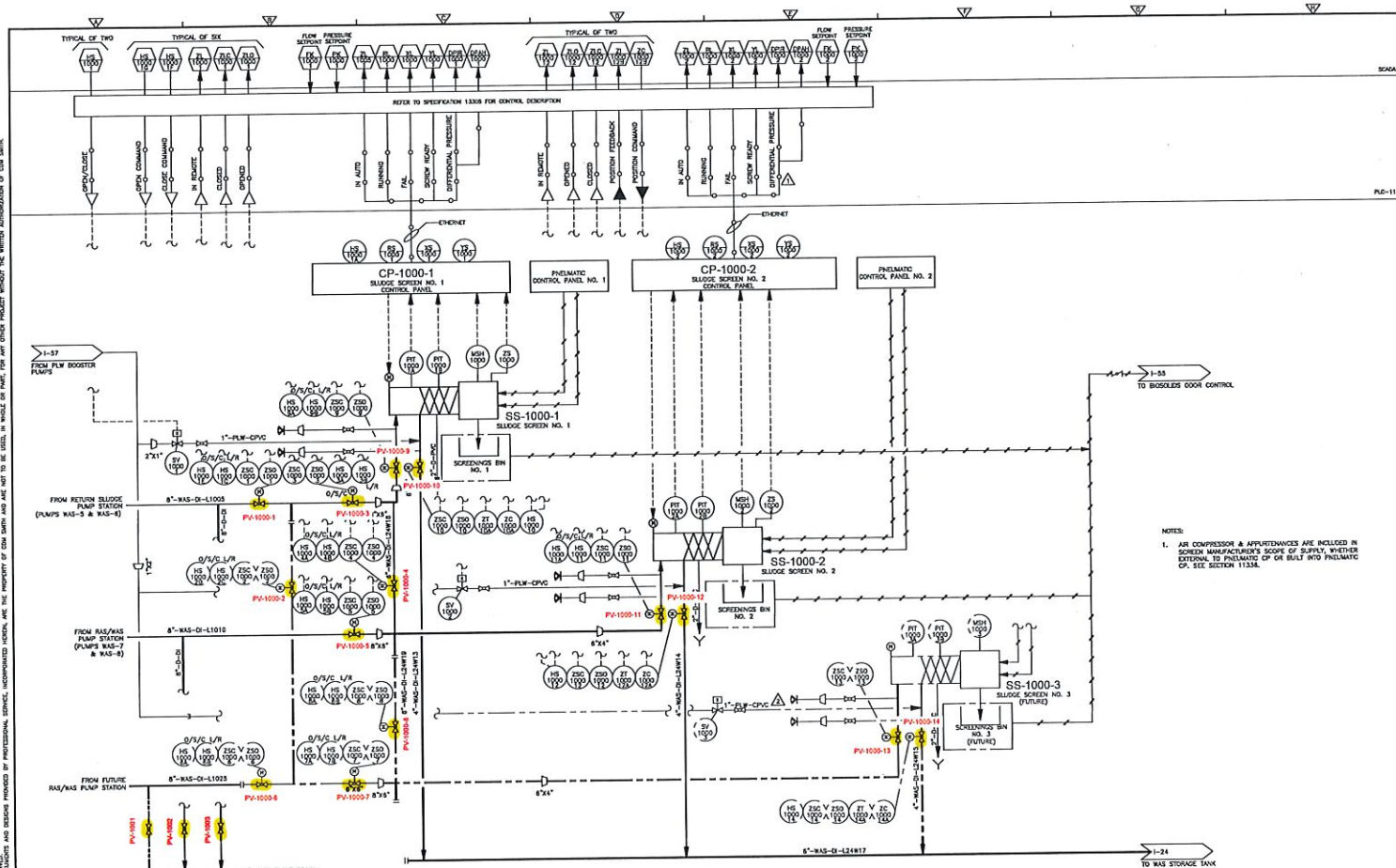
CONFORMED DRAWING - AUGUST 2018

NOTED: [DATE: 08/20/2018] Project: []
 City of Franklin, Tennessee
 Franklin WRF
 Modifications and Expansion Project
 COF CONTRACT NO. 2017-0264
 SHEET NO. 1-20
 CONFORMED DRAWING - AUGUST 2018



DESIGNED BY: M. BOWEN DRAWN BY: S. MILLER CHECKED BY: S. LINDSEY IN CHARGE: S. LINDSEY APPROVED BY: S. LINDSEY DATE: APRIL 2018										CITY OF FRANKLIN, TENNESSEE FRANKLIN WRF MODIFICATIONS AND EXPANSION PROJECT COF CONTRACT NO. 2017-0264										PROCESS AND INSTRUMENTATION DIAGRAM DENITRIFICATION FILTERS										PROJECT NO. 11815-0004-WRF FILE NAME: 11815-0004-WRF-01-20 SHEET NO. 1-20																			
REV. NO.										DATE										BY										CHKD.										REMARKS									
1										08/20/2018										M. BOWEN										S. MILLER										CONFORMED DRAWING									

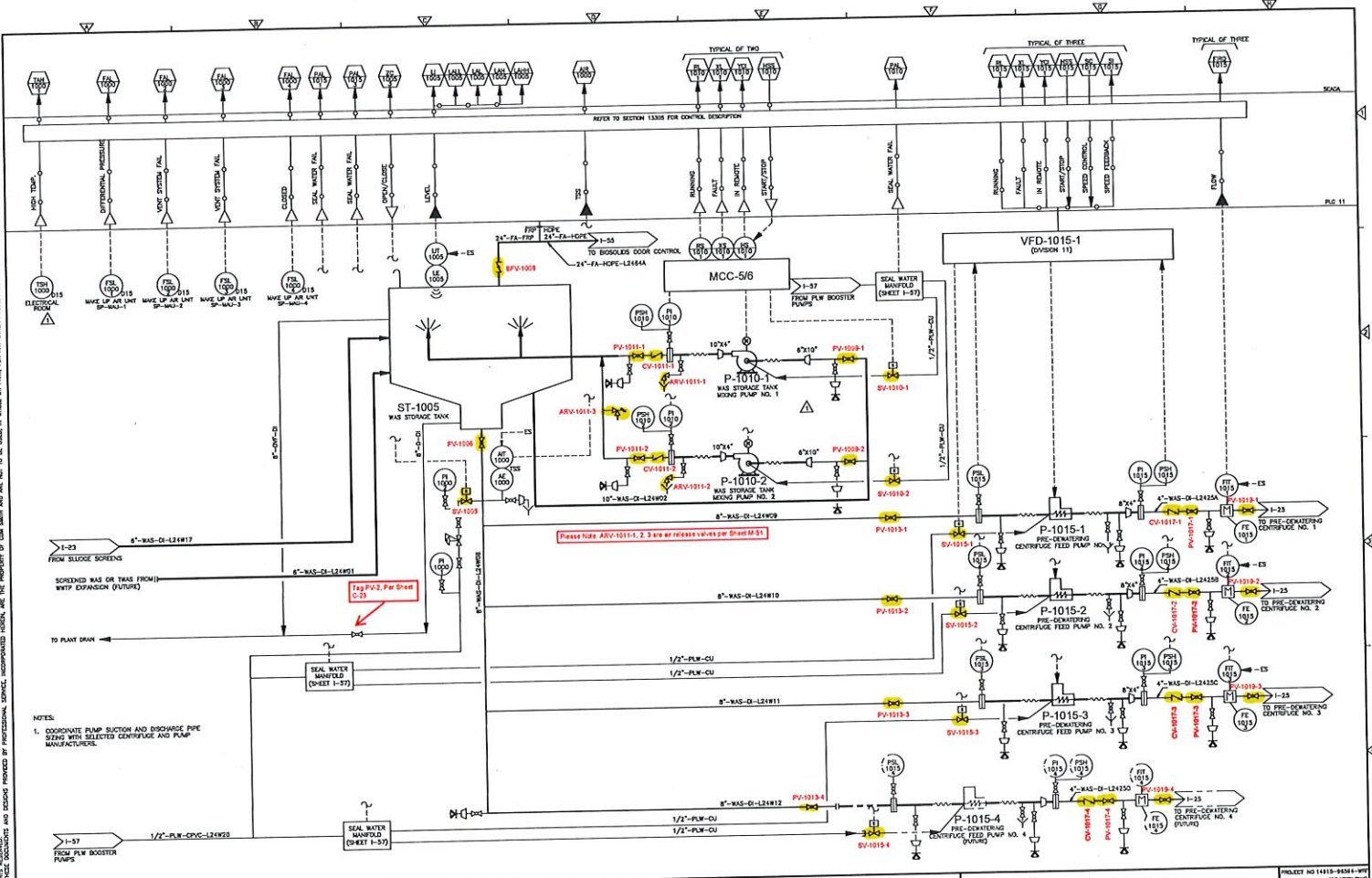
NOTES: (CONTINUED)
 1. ALL INSTRUMENTATION AND DEVICES PROVIDED BY PROFESSIONAL SERVICE, UNLESS OTHERWISE NOTED, ARE THE PROPERTY OF CDM SMITH AND ARE NOT TO BE USED IN ANY OTHER PROJECT WITHOUT THE WRITTEN APPROVAL OF CDM SMITH.
 2. ALL INSTRUMENTATION AND DEVICES PROVIDED BY PROFESSIONAL SERVICE, UNLESS OTHERWISE NOTED, ARE THE PROPERTY OF CDM SMITH AND ARE NOT TO BE USED IN ANY OTHER PROJECT WITHOUT THE WRITTEN APPROVAL OF CDM SMITH.
 3. ALL INSTRUMENTATION AND DEVICES PROVIDED BY PROFESSIONAL SERVICE, UNLESS OTHERWISE NOTED, ARE THE PROPERTY OF CDM SMITH AND ARE NOT TO BE USED IN ANY OTHER PROJECT WITHOUT THE WRITTEN APPROVAL OF CDM SMITH.



NOTES:
 1. AIR COMPRESSOR & APPURTENANCES ARE INCLUDED IN SCREEN MANUFACTURER'S SCOPE OF SUPPLY, WHETHER EXISTING, TO BE INSTALLED OR TO BE BUILT INTO PNEUMATIC CP, SEE SECTION 1133A.

										CITY OF FRANKLIN, TENNESSEE FRANKLIN WRF MODIFICATIONS AND EXPANSION PROJECT COF CONTRACT NO. 2017-0264										PROCESS AND INSTRUMENTATION DIAGRAM SLUDGE SCREENING										FILE NAME: 023P02C02C SHEET NO. 1-23	
DESIGNED BY: W. B. SMITH CHECKED BY: S. J. SMITH DATE: APRIL 2018										CDM Smith										TYPED BY: S. J. SMITH DATE: APRIL 2018											
CONFORMED DRAWING																															
REVISION NO. 1																															
REVISION NO. 2																															
DATE: APRIL 2018																															
CONFORMED DRAWING - AUGUST 2018																															

THIS DOCUMENT IS THE PROPERTY OF CDM SMITH AND IS NOT TO BE USED IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN APPROVAL OF CDM SMITH.



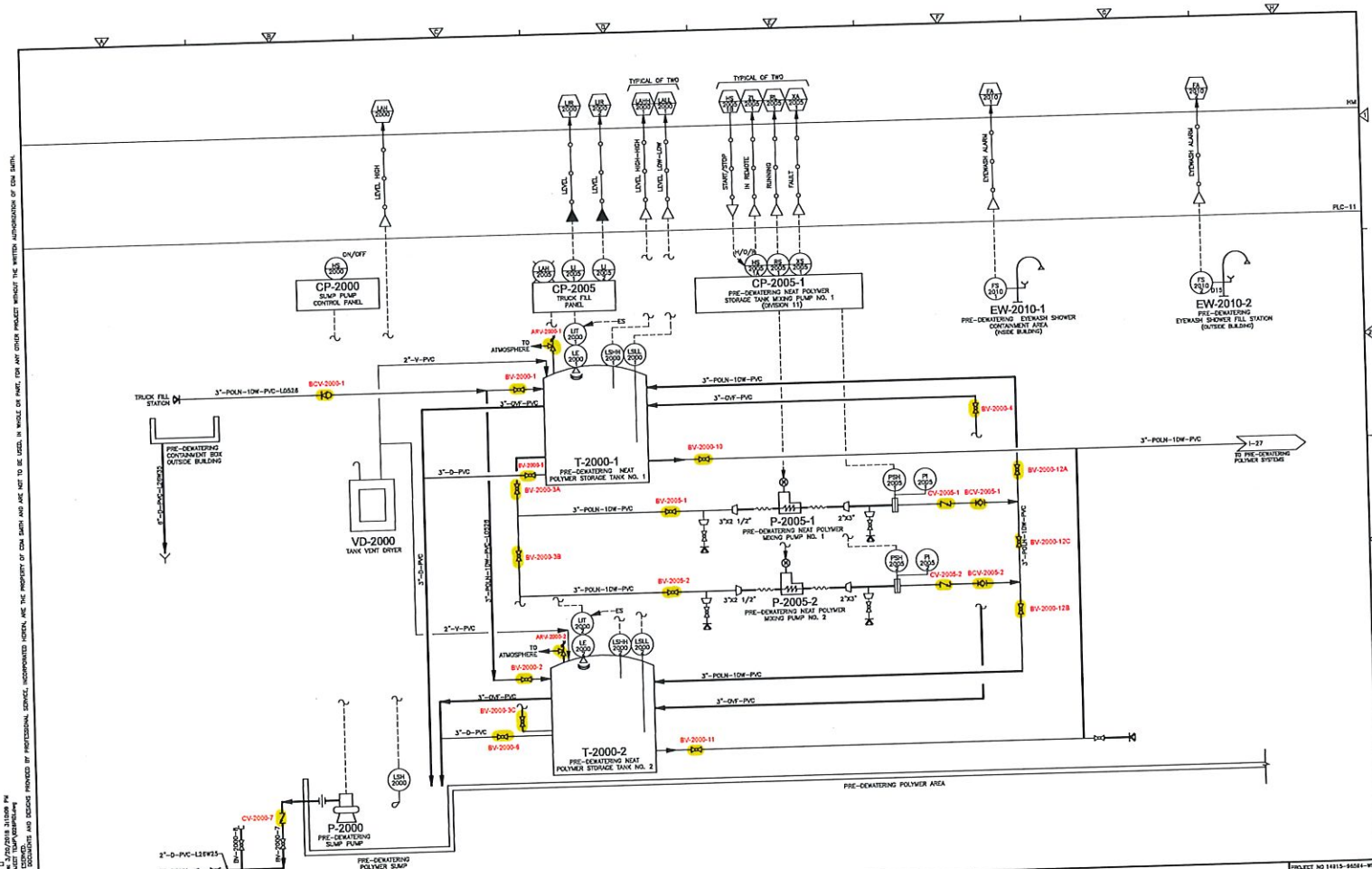
NOTES:
1. COORDINATE PUMP SIZING AND DISCHARGE PIPE SIZING WITH SELECTED CENTRIFUGAL PUMP MANUFACTURER.

REV.	DATE	BY	CHKD	DESCRIPTION
1	08/15/17	W. WICKS	J. WICKS	ISSUED FOR BIDDING
2	08/15/17	W. WICKS	J. WICKS	ISSUED FOR BIDDING
3	08/15/17	W. WICKS	J. WICKS	ISSUED FOR BIDDING
4	08/15/17	W. WICKS	J. WICKS	ISSUED FOR BIDDING
5	08/15/17	W. WICKS	J. WICKS	ISSUED FOR BIDDING
6	08/15/17	W. WICKS	J. WICKS	ISSUED FOR BIDDING
7	08/15/17	W. WICKS	J. WICKS	ISSUED FOR BIDDING
8	08/15/17	W. WICKS	J. WICKS	ISSUED FOR BIDDING
9	08/15/17	W. WICKS	J. WICKS	ISSUED FOR BIDDING
10	08/15/17	W. WICKS	J. WICKS	ISSUED FOR BIDDING

CITY OF FRANKLIN, TENNESSEE
FRANKLIN WRF
MODIFICATIONS AND EXPANSION PROJECT
COP OF CONTRACT NO. 2017-0264

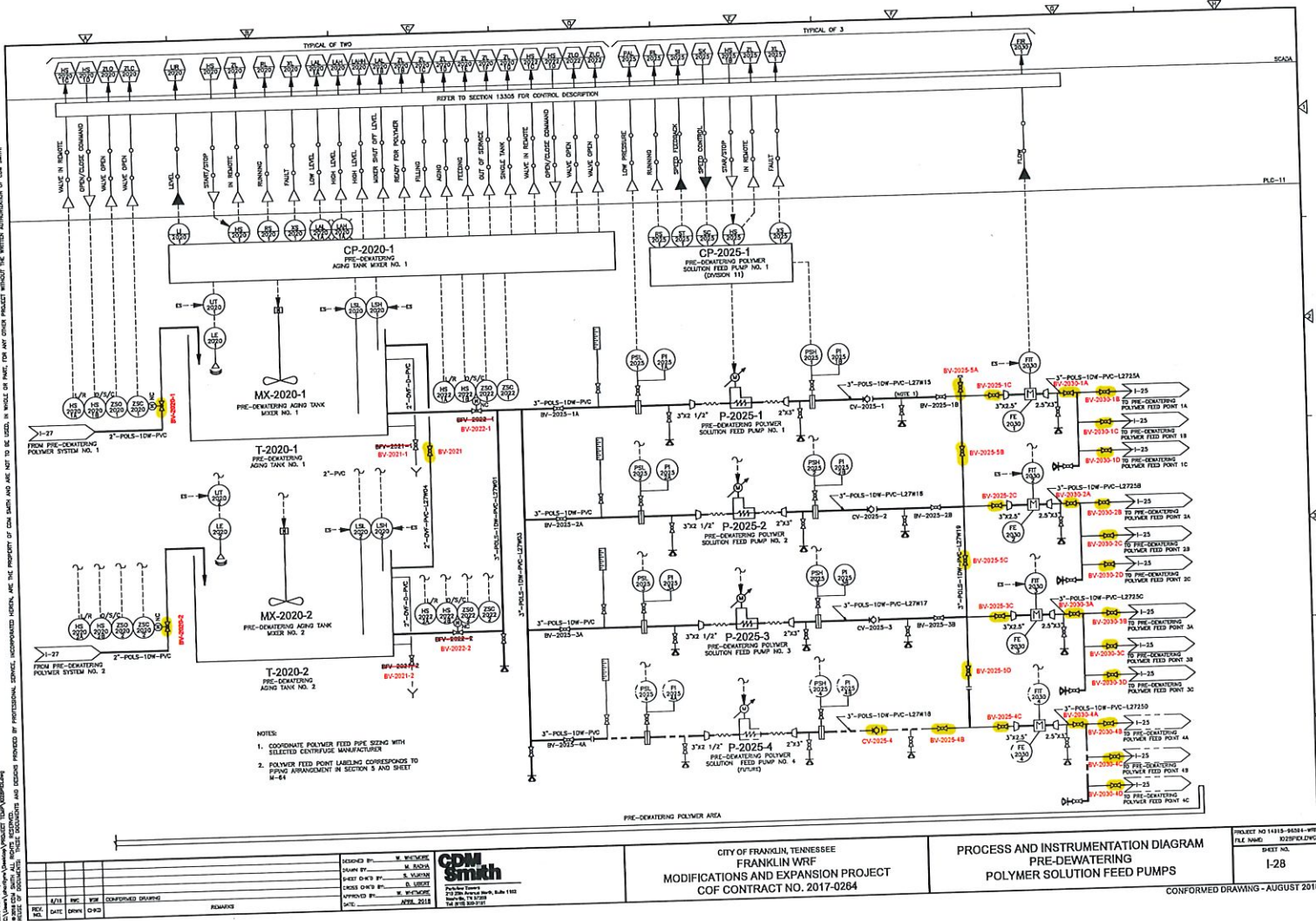
PROCESS AND INSTRUMENTATION DIAGRAM
WAS STORAGE, MIXING AND
PRE-DEWATERING CENTRIFUGAL PUMPS

PROJECT NO 14815-0454-WRF
SHEET NO. 1-24
CONFORMED DRAWING - AUGUST 2018



PROJECT NO. 19113-16084-WP FILE NAME: 19113P16084-WP SHEET NO. 1-26		CONFORMED DRAWING - AUGUST 2018	
CITY OF FRANKLIN, TENNESSEE FRANKLIN WRF MODIFICATIONS AND EXPANSION PROJECT COF CONTRACT NO. 2017-0264		PROCESS AND INSTRUMENTATION DIAGRAM PRE-DEWATERING NEAT POLYMER STORAGE TANKS	
DESIGNED BY: S. WICKERS DRAWN BY: S. WICKERS CHECKED BY: S. WICKERS APPROVED BY: S. WICKERS DATE: APRIL 2018		CDM Smith	
REV	DATE	BY	REMARKS
1	4/11/18	SW	CONFORMED DRAWING

NOTES: (CONTINUED) 1. COORDINATE POLYMER FEED PUMP BEING WITH SELECTED CENTRIFUGAL MANUFACTURER. 2. POLYMER FEED POINT LABELING CORRESPONDS TO PIPING ARRANGEMENT IN SECTION 5 AND SHEET M-44.



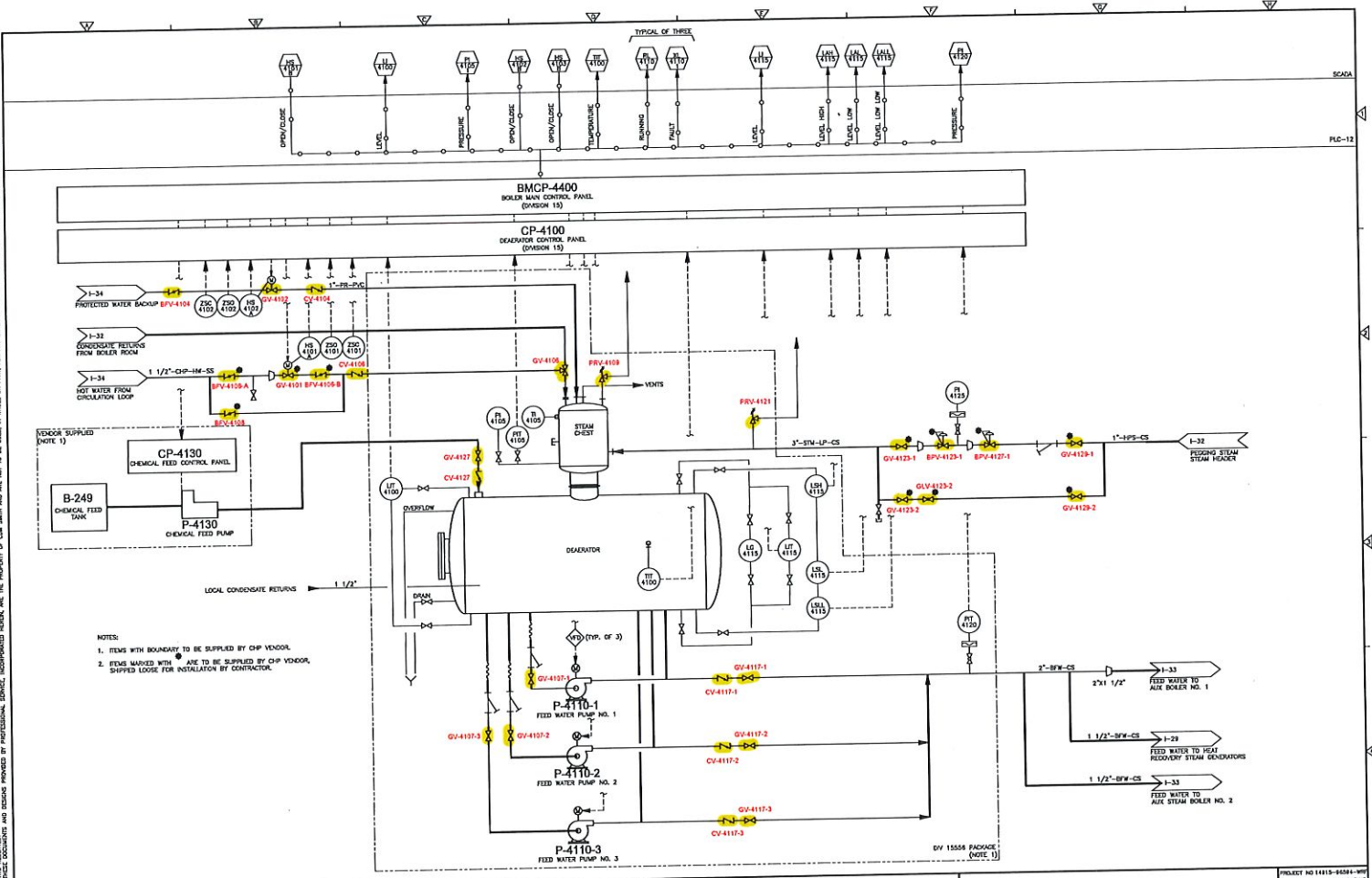
CITY OF FRANKLIN, TENNESSEE
FRANKLIN WRF
MODIFICATIONS AND EXPANSION PROJECT
COF CONTRACT NO. 2017-0264

PROCESS AND INSTRUMENTATION DIAGRAM
PRE-DEWATERING
POLYMER SOLUTION FEED PUMPS

PROJECT NO. 15113-10264-WP
FILE NAME: I28P&ID.DWG
SHEET NO.
I-28

CONFORMED DRAWING - AUGUST 2018

THIS DRAWING IS THE PROPERTY OF CDM SMITH AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT THE WRITTEN PERMISSION OF CDM SMITH.

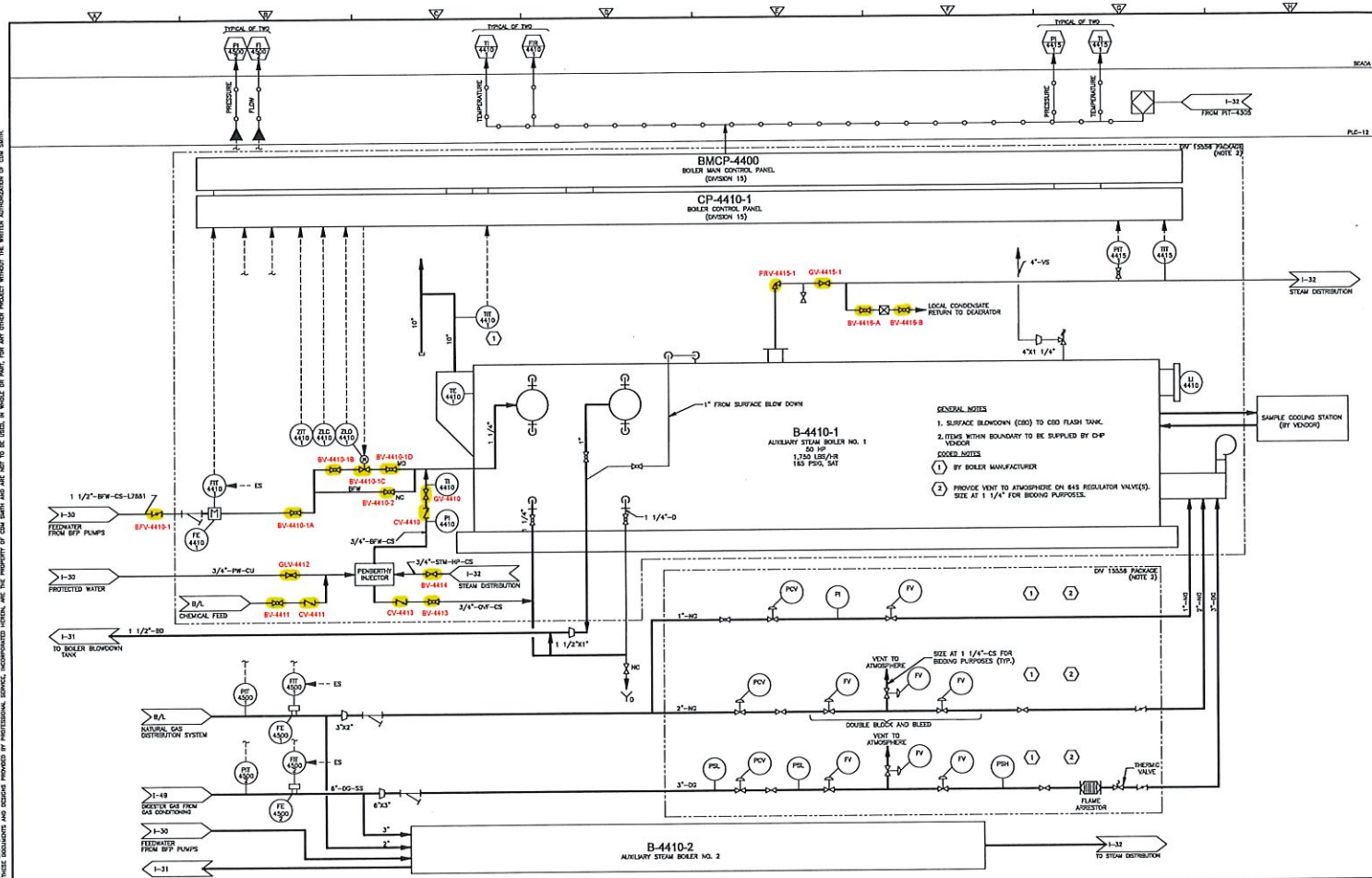


- NOTES:
- 1. ITEMS WITH BOUNDARY TO BE SUPPLIED BY CDM VENDOR.
 - 2. ITEMS MARKED WITH * ARE TO BE SUPPLIED BY CDM VENDOR, SHIPPED LOOSE FOR INSTALLATION BY CONTRACTOR.

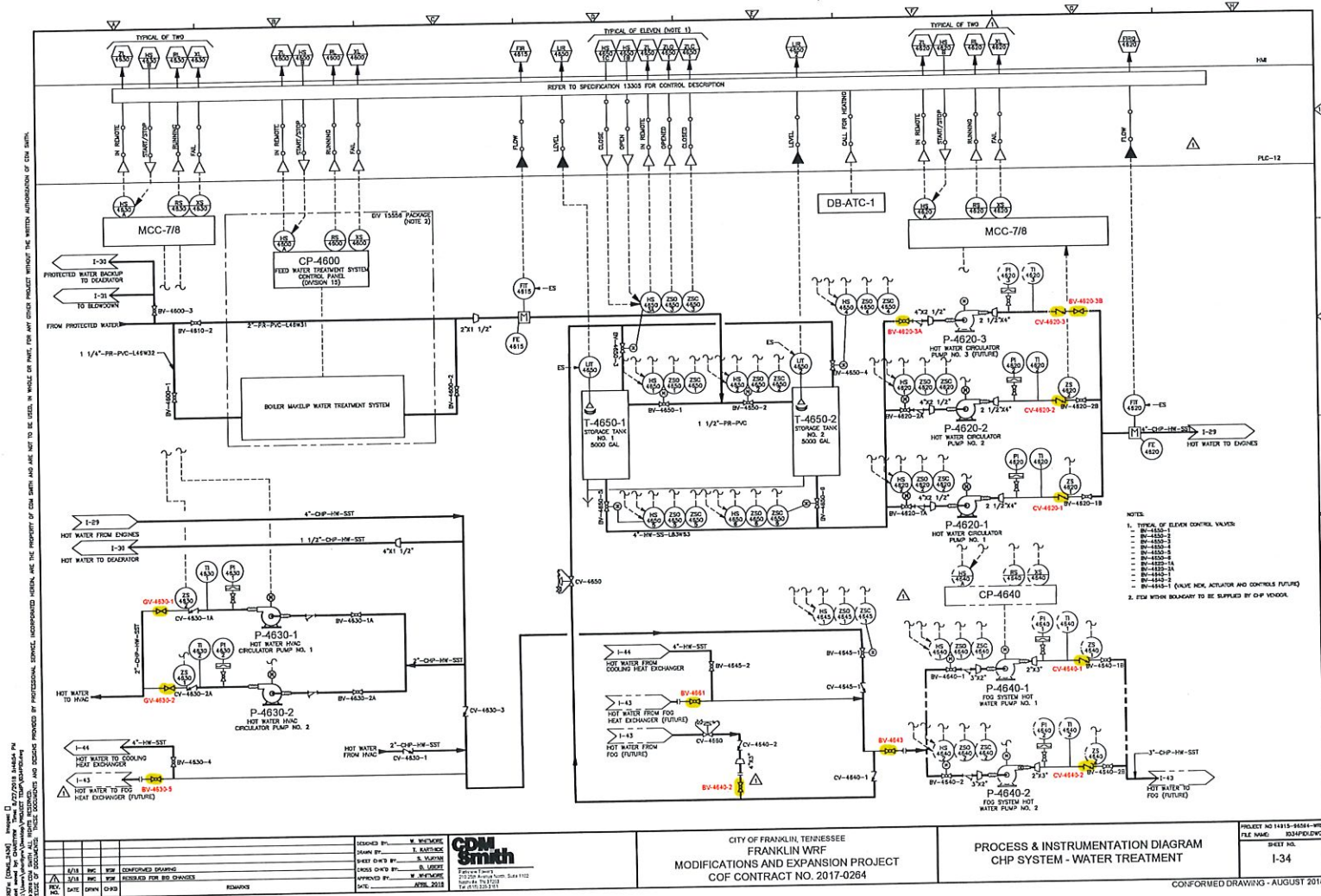
				DESIGNED BY: R. WICKMIRE		CDM Smith 710 2nd Street, Suite 1100 Franklin, TN 37067 Tel: 615 587-1001	CITY OF FRANKLIN, TENNESSEE FRANKLIN WRF MODIFICATIONS AND EXPANSION PROJECT COF CONTRACT NO. 2017-0264	PROCESS AND INSTRUMENTATION DIAGRAM CHP SYSTEM - DEAERATOR AND FEED WATER	FILE NAME: 180302P02.DWG	SHEET NO:
				DRAWN BY: M. KOSOL					I-30	
				CHECKED BY: J. LUCIFOR						
				APPROVED BY: R. WICKMIRE						
REV. NO.	DATE	BY	CHKD	CONFORMED DRAWING	REMARKS	DATE: APRIL 2018			CONFORMED DRAWING - AUGUST 2018	

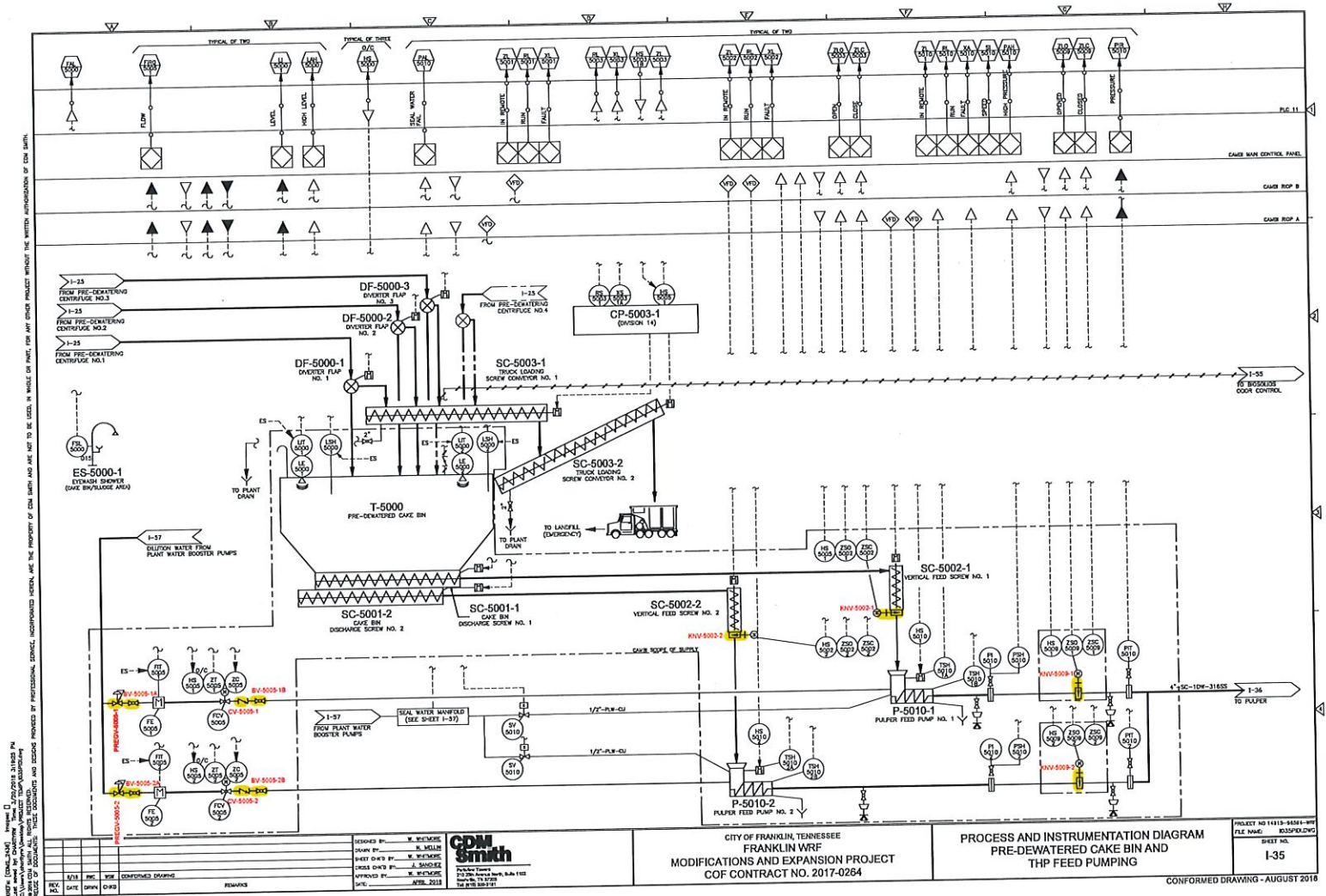
CONFORMED DRAWING - AUGUST 2018

THIS DOCUMENT IS THE PROPERTY OF CDM SMITH AND IS NOT TO BE USED IN WHOLE OR IN PART FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CDM SMITH. IT IS THE PROPERTY OF CDM SMITH AND IS NOT TO BE USED IN WHOLE OR IN PART FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CDM SMITH. IT IS THE PROPERTY OF CDM SMITH AND IS NOT TO BE USED IN WHOLE OR IN PART FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CDM SMITH.

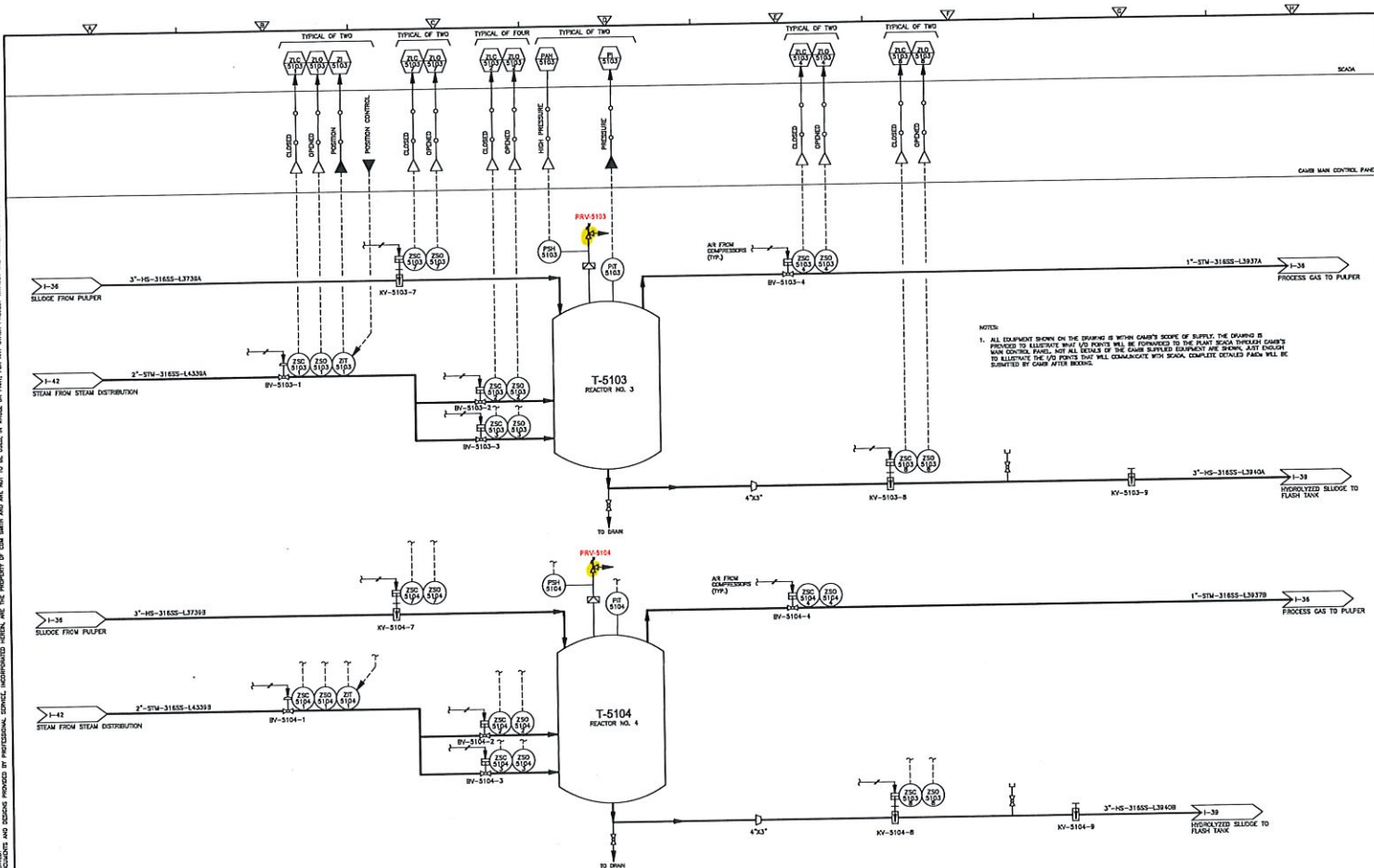


BOLLER BLOWDOWN										CITY OF FRANKLIN, TENNESSEE FRANKLIN WRF MODIFICATIONS AND EXPANSION PROJECT COF CONTRACT NO. 2017-0264										PROCESS AND INSTRUMENTATION DIAGRAM CHP SYSTEM - AUXILIARY BOILERS										PROJECT NO 14115-10264-WRF FILE NAME: 10264-WRF-CHP-PI-133 SHEET NO. 1-33	
										DESIGNED BY: W. WETMORE DRAWN BY: M. SODER CHECKED BY: S. SODER APPROVED BY: W. WETMORE DATE: 08/15/2018										CDM Smith											





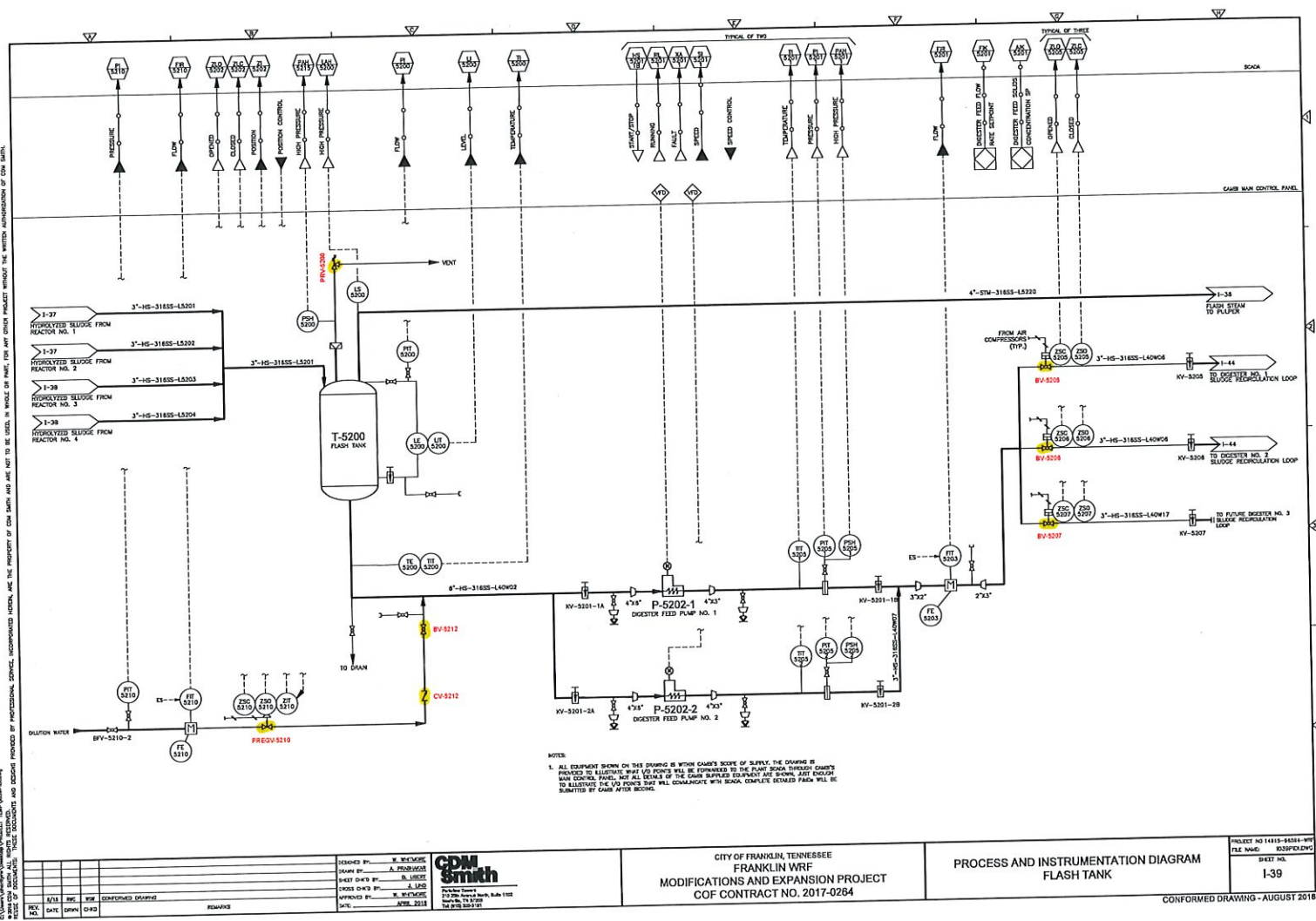
NOTES: (1) ALL EQUIPMENT SHOWN ON THE DRAWING IS WITHIN CASH'S SCOPE OF SUPPLY. THE DRAWING IS PROVIDED TO ILLUSTRATE WHAT VIO POINTS WILL BE CONNECTED TO THE PLANT SCADA THROUGH CASH'S MAIN CONTROL PANEL. NOT ALL DETAILS OF THE CASH SUPPLIED EQUIPMENT ARE SHOWN, AND FURTHER TO ELABORATE THE VIO POINTS THAT WILL COMMUNICATE WITH SCADA, COMPLETE DETAILED PANEL WILL BE SUBMITTED BY CASH AFTER BIDDING.



					DESIGNED BY: M. WICKSON	 Project Number 710 206 Avenue Street, Suite 1102 Franklin, TN 37068 Tel: 615.589.9171	CITY OF FRANKLIN, TENNESSEE FRANKLIN WRF MODIFICATIONS AND EXPANSION PROJECT COF CONTRACT NO. 2017-0264	PROCESS AND INSTRUMENTATION DIAGRAM REACTOR NO. 3 & NO. 4	PROJECT NO 14115-9404-WF
					DRAWN BY: A. PERAZZINI				FILE NAME: 803SPFLD.WF
					CHECKED BY: S. LINDSEY				SHEET NO. 1-38
					CROSS CHECK BY: A. LIND				
					APPROVED BY: M. WICKSON				
REV	DATE	BY	CHKD	DESCRIPTION	DATE: JULY 2018				CONFORMED DRAWING - AUGUST 2018
1	8/1/18	MW	SP	CONFORMED DRAWING					

CONFORMED DRAWING - AUGUST 2018

THIS DRAWING IS THE PROPERTY OF CDM SMITH. IT IS TO BE USED IN WHOLE OR IN PART FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CDM SMITH. IT IS TO BE KEPT IN THE OFFICE OF THE PROJECT ENGINEER AND NOT TO BE LOANED, REPRODUCED, COPIED, OR IN ANY MANNER USED FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CDM SMITH. IT IS TO BE KEPT IN THE OFFICE OF THE PROJECT ENGINEER AND NOT TO BE LOANED, REPRODUCED, COPIED, OR IN ANY MANNER USED FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CDM SMITH.

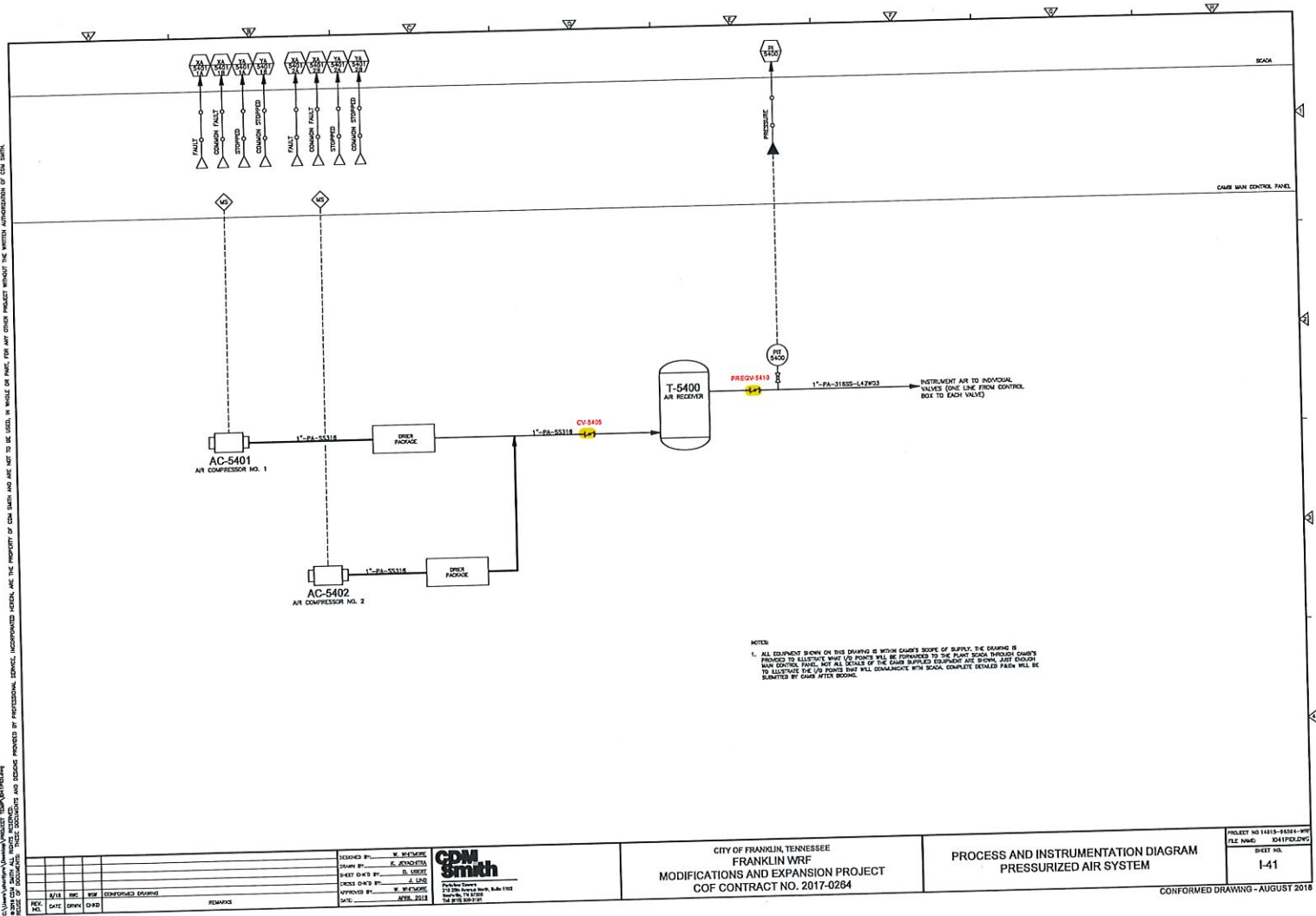


NOTES:
1. ALL EQUIPMENT SHOWN ON THIS DRAWING IS WITHIN CHAMBER'S SCOPE OF SUPPLY. THE DRAWING IS PROVIDED TO ILLUSTRATE WHAT VIO POINTS WILL BE FORWARDED TO THE PLANT SCADA THROUGH CHAMBER'S SCADA SYSTEM. FOR ALL DETAILS OF THE CHAMBER SUPPLIED EQUIPMENT SEE SCADA AND CHAMBER'S SCADA SYSTEM. FOR ALL DETAILS OF THE CHAMBER SUPPLIED EQUIPMENT SEE SCADA AND CHAMBER'S SCADA SYSTEM. FOR ALL DETAILS OF THE CHAMBER SUPPLIED EQUIPMENT SEE SCADA AND CHAMBER'S SCADA SYSTEM.

REV. NO.	DATE	BY	CHKD	DESCRIPTION
1	08/01/2017	W. MCMAHON	A. PROSSER	ISSUED FOR CONSTRUCTION
2	08/01/2017	W. MCMAHON	A. PROSSER	ISSUED FOR CONSTRUCTION
3	08/01/2017	W. MCMAHON	A. PROSSER	ISSUED FOR CONSTRUCTION
4	08/01/2017	W. MCMAHON	A. PROSSER	ISSUED FOR CONSTRUCTION
5	08/01/2017	W. MCMAHON	A. PROSSER	ISSUED FOR CONSTRUCTION
6	08/01/2017	W. MCMAHON	A. PROSSER	ISSUED FOR CONSTRUCTION
7	08/01/2017	W. MCMAHON	A. PROSSER	ISSUED FOR CONSTRUCTION
8	08/01/2017	W. MCMAHON	A. PROSSER	ISSUED FOR CONSTRUCTION
9	08/01/2017	W. MCMAHON	A. PROSSER	ISSUED FOR CONSTRUCTION
10	08/01/2017	W. MCMAHON	A. PROSSER	ISSUED FOR CONSTRUCTION

CDM Smith 1700 North Main Street, Suite 1100 Franklin, TN 37003 Tel: 615.253.3131	CITY OF FRANKLIN, TENNESSEE FRANKLIN WRF MODIFICATIONS AND EXPANSION PROJECT COF CONTRACT NO. 2017-0264	PROJECT NO 14131-05001-WF FILE NAME: 14131-05001-WF SHEET NO. I-39
	PROCESS AND INSTRUMENTATION DIAGRAM FLASH TANK	
	CONFORMED DRAWING - AUGUST 2018	

DATE: 08/06/2018 TIME: 11:27:02 AM
 C:\Users\mfranklin\Documents\Projects\Franklin WRF\Process and Instrumentation Diagram\Process and Instrumentation Diagram.dwg
 PROJECT: FRANKLIN WRF MODIFICATIONS AND EXPANSION PROJECT
 SHEET: 1-41



REV	DATE	BY	CHKD	DESCRIPTION
1	08/06/2018	W. B. SMITH	J. B. SMITH	ISSUED FOR REVIEW
2	08/06/2018	W. B. SMITH	J. B. SMITH	REVISED
3	08/06/2018	W. B. SMITH	J. B. SMITH	REVISED
4	08/06/2018	W. B. SMITH	J. B. SMITH	REVISED
5	08/06/2018	W. B. SMITH	J. B. SMITH	REVISED
6	08/06/2018	W. B. SMITH	J. B. SMITH	REVISED
7	08/06/2018	W. B. SMITH	J. B. SMITH	REVISED
8	08/06/2018	W. B. SMITH	J. B. SMITH	REVISED
9	08/06/2018	W. B. SMITH	J. B. SMITH	REVISED
10	08/06/2018	W. B. SMITH	J. B. SMITH	REVISED

CDM Smith

Franklin WRF
 2100 North Main, Suite 100
 Franklin, TN 37068
 Tel: 615.555.1111

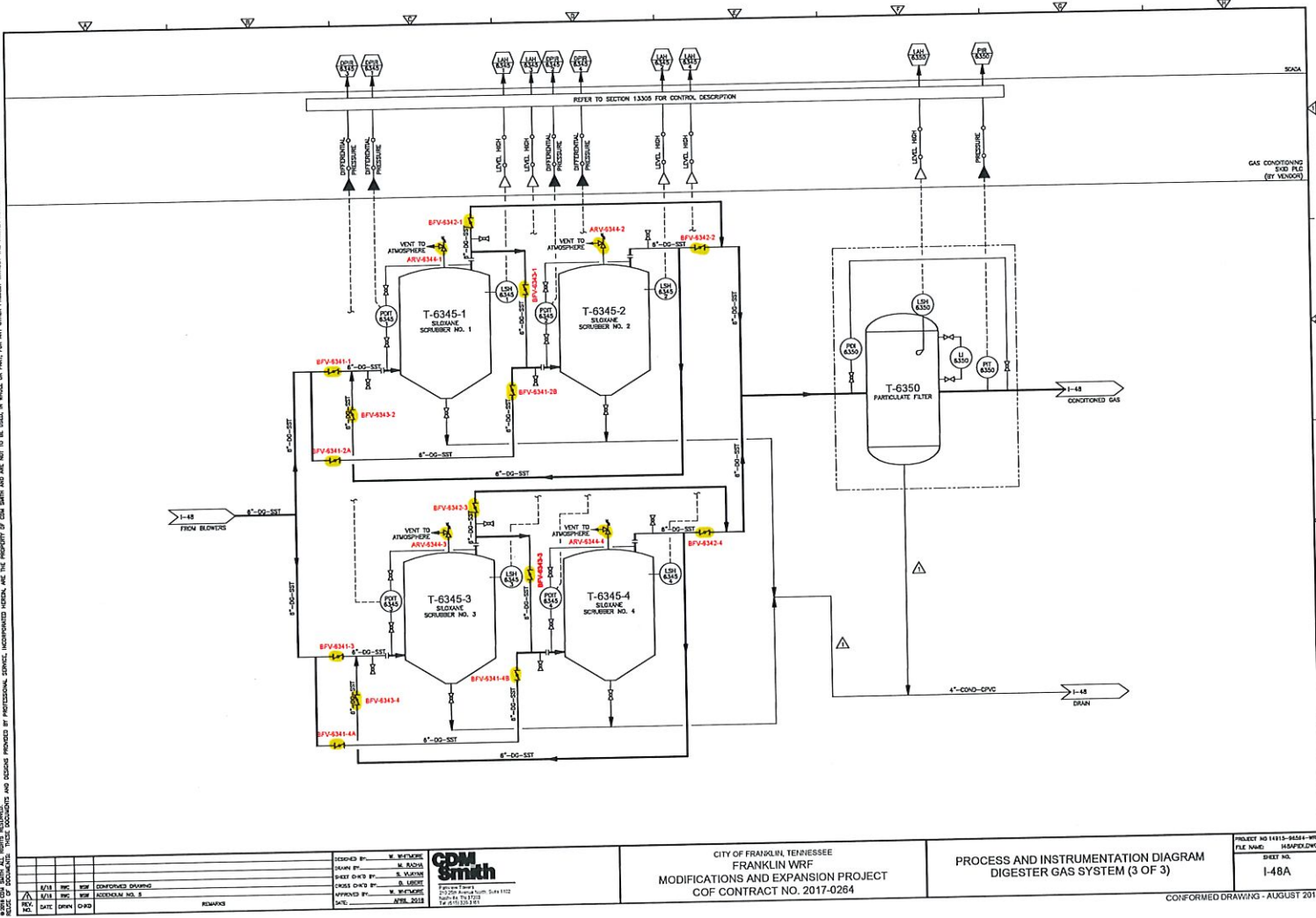
CITY OF FRANKLIN, TENNESSEE
 FRANKLIN WRF
 MODIFICATIONS AND EXPANSION PROJECT
 COF CONTRACT NO. 2017-0264

PROCESS AND INSTRUMENTATION DIAGRAM
 PRESSURIZED AIR SYSTEM

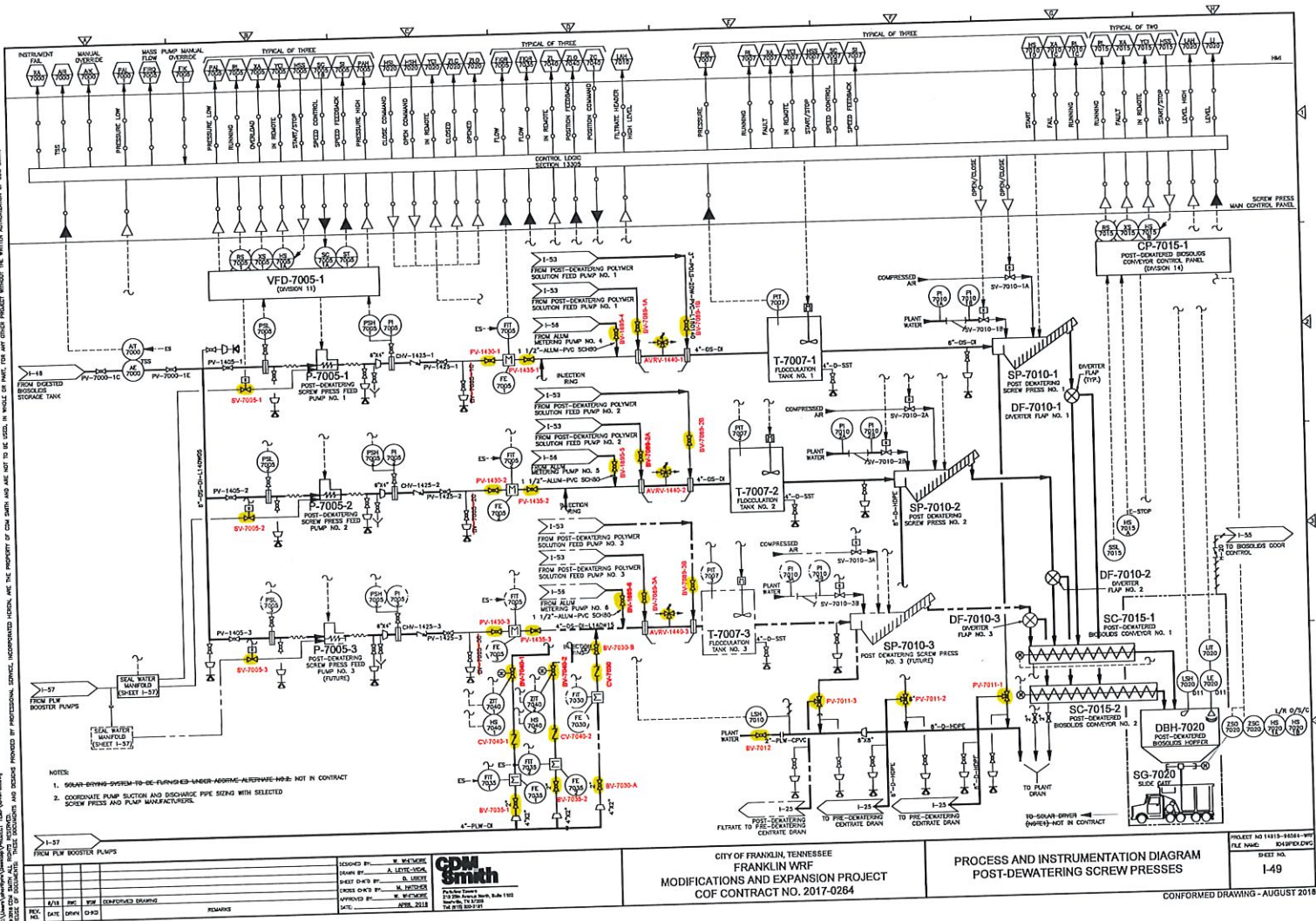
PROJECT NO: 14113-14113-1-41
 FILE NAME: 14113-14113-1-41.dwg
 SHEET NO: 1-41

CONFORMED DRAWING - AUGUST 2018

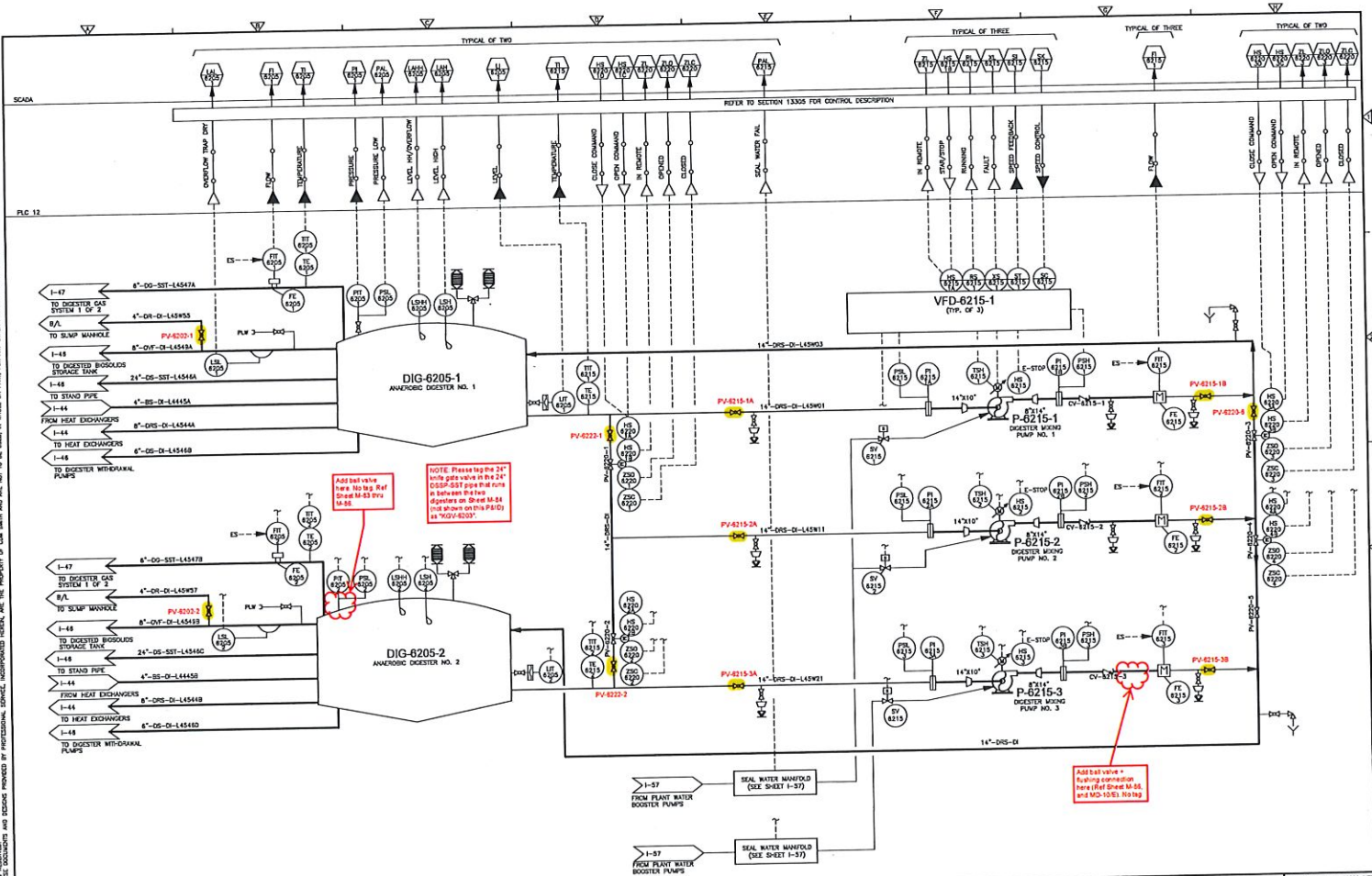
NOTES: (1) THIS DRAWING IS THE PROPERTY OF GDM SMITH AND IS NOT TO BE USED IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF GDM SMITH.
 (2) THIS DRAWING IS THE PROPERTY OF GDM SMITH AND IS NOT TO BE USED IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF GDM SMITH.
 (3) THIS DRAWING IS THE PROPERTY OF GDM SMITH AND IS NOT TO BE USED IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF GDM SMITH.
 (4) THIS DRAWING IS THE PROPERTY OF GDM SMITH AND IS NOT TO BE USED IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF GDM SMITH.
 (5) THIS DRAWING IS THE PROPERTY OF GDM SMITH AND IS NOT TO BE USED IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF GDM SMITH.



NOTED: (DATE: 11/15/2017) BY: J. SMITH, P.E. (11/15/2017) J. SMITH, P.E. (11/15/2017)
 CITY OF FRANKLIN, TENNESSEE
 FRANKLIN WASTE RECOVERY FACILITY
 PROCESS AND INSTRUMENTATION DIAGRAM
 POST-DEWATERING SCREW PRESSES
 PROJECT NO. 14115-10001-001
 SHEET NO. I-49
 CONFORMED DRAWING - AUGUST 2018

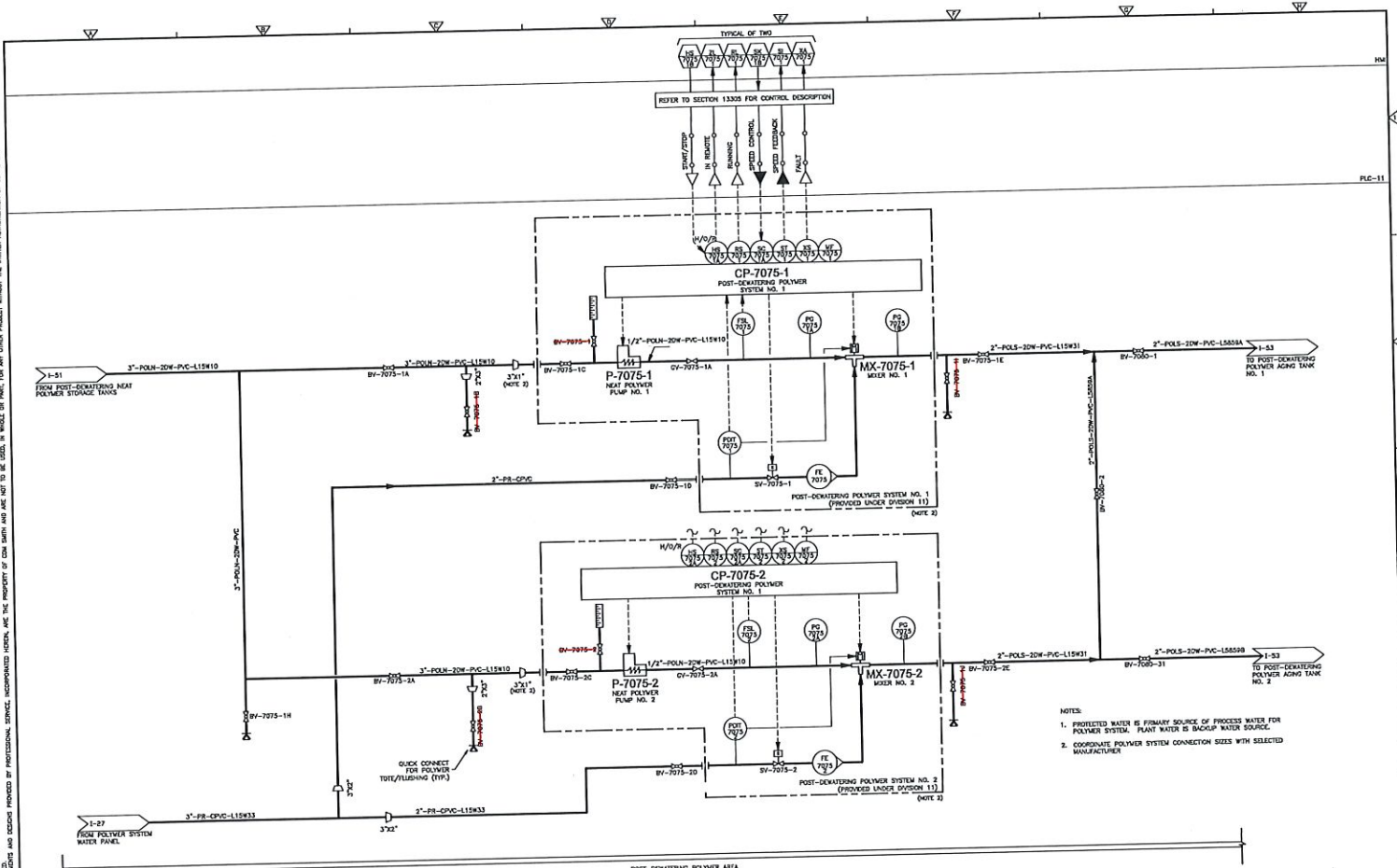


THIS DRAWING IS THE PROPERTY OF CDM SMITH AND IS NOT TO BE USED IN WHOLE OR IN PART FOR ANY OTHER PROJECT WITHOUT THE WRITTEN APPROVAL OF CDM SMITH.
NO PART OF THIS DRAWING IS TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF CDM SMITH.



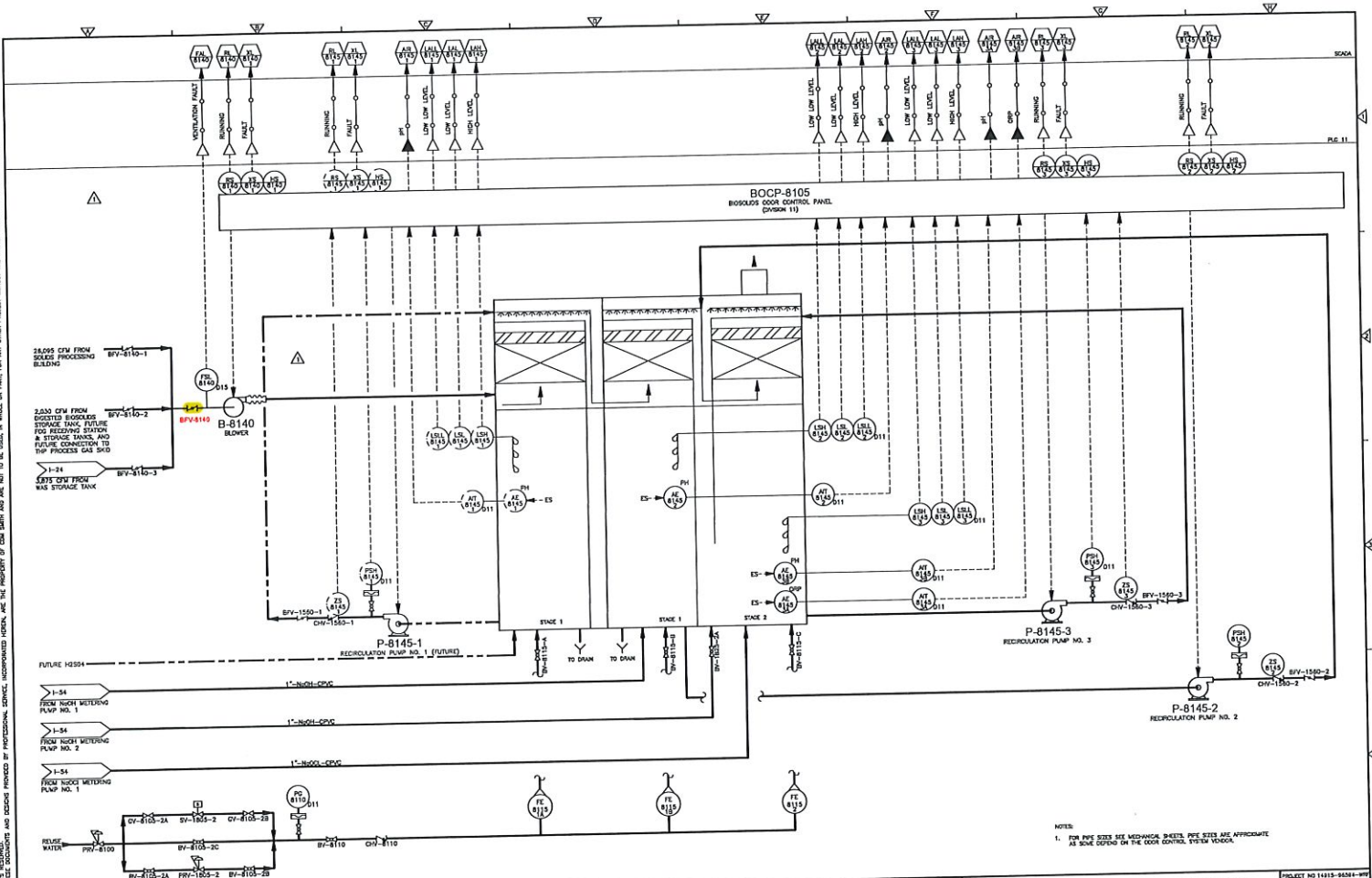
DESIGNED BY: R. WILSON CHECKED BY: S. JONES DATE: 07/15/2017  Project Number: 14113-14041-WP 200 North Central Expressway, Suite 100 Franklin, TN 37067 TEL 615 523-1171 CITY OF FRANKLIN, TENNESSEE FRANKLIN WRF MODIFICATIONS AND EXPANSION PROJECT COF CONTRACT NO. 2017-0264										PROCESS AND INSTRUMENTATION DIAGRAM DIGESTER MIXING AND OVERFLOW										SHEET NO. I-45	
CONFORMED DRAWING - AUGUST 2018																					

DATE: 08/01/2018 10:00 AM
 DRAWN BY: J. WILKINS
 CHECKED BY: S. WILKINS
 PROJECT NO: 14413-94581-999
 SHEET NO: I-52
 CONFORMED DRAWING
 PROJECT: FRANKLIN WRF MODIFICATIONS AND EXPANSION PROJECT
 COF CONTRACT NO. 2017-0264
 PROCESS AND INSTRUMENTATION DIAGRAM
 POST-DEWATERING POLYMER SYSTEMS



DESIGNED BY: J. WILKINS	CHECKED BY: S. WILKINS	DATE: 08/01/2018	PROJECT NO: 14413-94581-999	SHEET NO: I-52
DRAWN BY: J. WILKINS	CHECKED BY: S. WILKINS	DATE: 08/01/2018	PROJECT NO: 14413-94581-999	SHEET NO: I-52
DATE: 08/01/2018	PROJECT NO: 14413-94581-999	SHEET NO: I-52	CONFORMED DRAWING	PROJECT: FRANKLIN WRF MODIFICATIONS AND EXPANSION PROJECT
DATE: 08/01/2018	PROJECT NO: 14413-94581-999	SHEET NO: I-52	CONFORMED DRAWING	PROJECT: FRANKLIN WRF MODIFICATIONS AND EXPANSION PROJECT

DATE: 08/01/2018
 TIME: 2:00 PM
 DRAWN BY: J. SMITH
 CHECKED BY: J. SMITH
 PROJECT: FRANKLIN WRF MODIFICATIONS AND EXPANSION PROJECT
 SHEET: 1-55
 CONFORMED DRAWING - AUGUST 2018



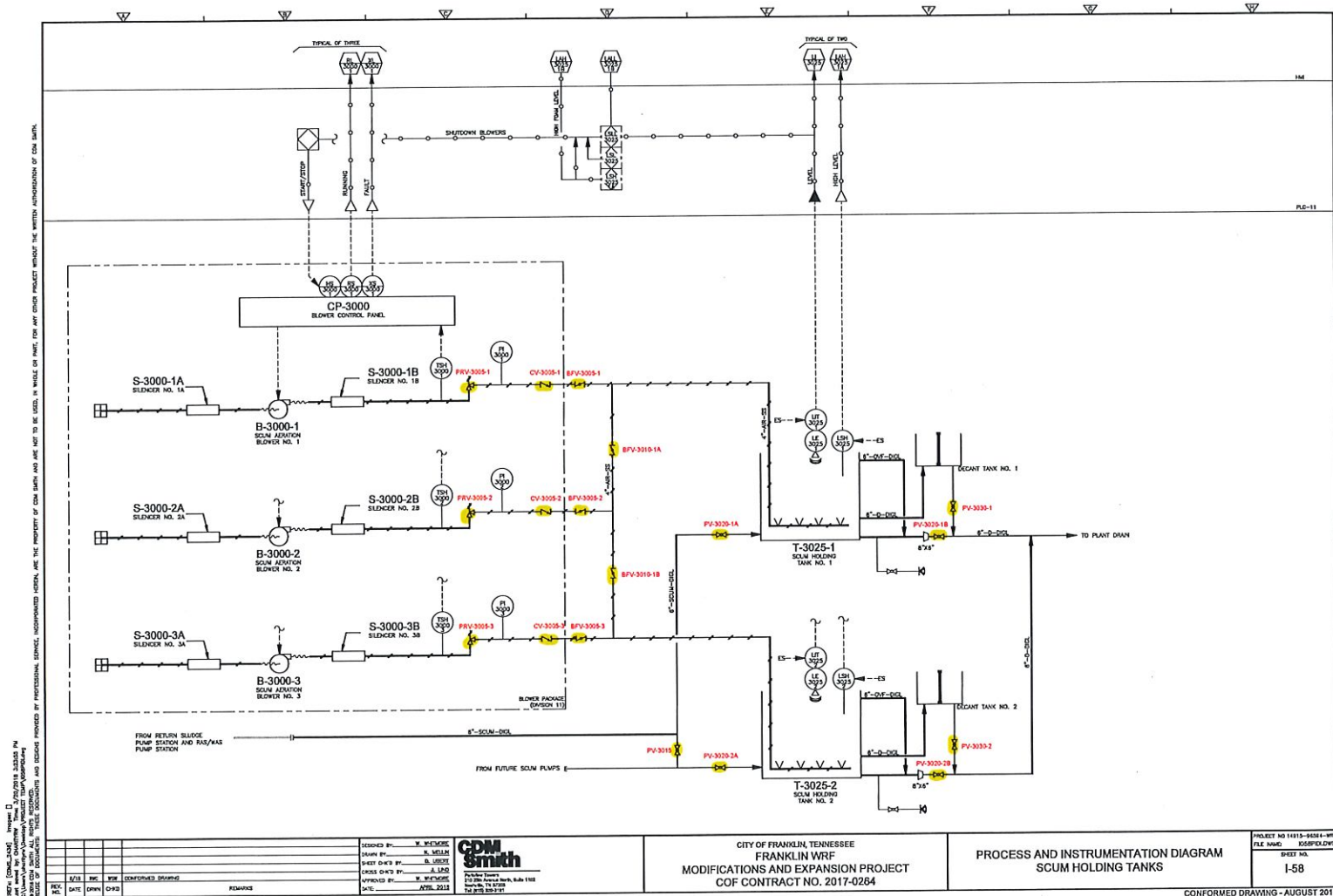
NOTES:
 1. FOR PUMP SIZES SEE MECHANICAL SHEETS. PIPE SIZES ARE APPROXIMATE AS SHOWN DEPENDING ON THE ODOUR CONTROL SYSTEM DESIGN.

DESIGNED BY: J. SMITH	CHECKED BY: J. SMITH	DATE: 08/01/2018
DRAWN BY: J. SMITH	DATE: 08/01/2018	
PROJECT: FRANKLIN WRF MODIFICATIONS AND EXPANSION PROJECT	SHEET: 1-55	
CONFORMED DRAWING		

CITY OF FRANKLIN, TENNESSEE
 FRANKLIN WRF
 MODIFICATIONS AND EXPANSION PROJECT
 COF CONTRACT NO. 2017-0264

PROCESS AND INSTRUMENTATION DIAGRAM
 BIOSOLIDS ODOR CONTROL
 (SHEET 2 OF 2)

PROJECT NO: 141015-00001-001
 FILE NAME: 141015-00001-001
 SHEET NO: 1-55
 CONFORMED DRAWING - AUGUST 2018





Kiewit

Kiewit Infrastructure South Co.
4800 North Point Parkway, Suite 100
Alpharetta, GA 30022

March 05, 2020

To: Attn: Mr. Dan Harris

CCA-KIEWIT-00027.00

CDM Smith, Inc.
210 25th Avenue North
Suite 1102
Nashville, TN 37203

Reference: Franklin WRF Modifications & Expansion Project
COF Contract No. 2017-0264

Subject: Construction Change Authorization No. 007 - Valve Tagging (Rev)

Dear Mr. Harris,

Kiewit is hereby submitting a cost proposal for CCA No. 007 – Valve Tagging (Rev) in the amount of **Nineteen Thousand Five Hundred Sixty Four Dollars (\$19,564.)**

This proposal includes furnishing and installing all additional valve tags included in the original CCA 007, as well as the revised CCA 007.

If you have any questions, please do not hesitate to contact me at (678) 794-2121.

Sincerely,

Steve Davis
Project Manager

cc: File
Michelle Hatcher

Kiewit Infrastructure South Co.
4405 International Blvd, Suite #C101
Norcross, Georgia 30093

DATE: 03/05/2020



PCO NO.: CCA-007 Valve Tagging (Rev)

PREPARED BY: Kian Lawlor

DESCRIPTION	QTY	UNIT	MH Per Unit	Total MH	DIRECT LABOR		INDIRECT LABOR		MATERIAL		CONST. EQUIPMENT		SUBCONTRACT		OTHER		TOTAL AMOUNT
					Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	
Install (Tie)					\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Foreman	566	EA	0.10	57	\$ 61.04	\$ 3,454.86	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,454.86
Laborer	566	EA	0.25	142	\$ 36.13	\$ 5,112.40	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,112.40
Equipment					\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
F-250 (Foreman)	67.00	HR			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 24.71	\$ 1,408.47	\$ -	\$ -	\$ -	\$ -	\$ 1,408.47
Material					\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Valve Tags	566.00	Ea			\$ -	\$ -	\$ -	\$ -	\$ 10.35	\$ 5,858.10	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,858.10
					\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
					\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
					\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
					\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
					\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
					\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
**Construction Equipment Ownership & Operating Costs are based on Blue Book FHWA Rates.					\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
					\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
					\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
					\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
OTHER					\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
STS - small tools, consumables, safety equip, (5% of direct labor, plus 9.75% sales tax: Formula = Total Direct Labor Subtotal * .05 * 1.0975)	198	MHR			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2.16	\$ 428.38	\$ 428.38
					\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
TAX: (9.75% of Material, Equipment, Other)									\$ 571.16	\$ 571.16	\$ 137.33	\$ 137.33				\$ 41.77	\$ 750.26
BOND (2% of total)																	\$ -
SUBTOTALS				198	\$ 8,567.26	\$ 8,567.26	\$ -	\$ -	\$ 6,429.26	\$ 6,429.26	\$ 1,545.80	\$ 1,545.80	\$ -	\$ -	\$ -	\$ 470.13	\$ 17,012.45
MARKUP %					15.00%	15.00%	15.00%	15.00%	15.00%	15.00%	15.00%	15.00%	15.00%	15.00%	15.00%	15.00%	15.00%
SUBTOTALS WITH MARKUPS APPLIED					\$ 9,852.35	\$ 9,852.35			\$ 7,393.65	\$ 7,393.65	\$ 1,777.67	\$ 1,777.67				\$ 540.65	\$ 19,564.32
BOND																	\$ -
TOTAL																	\$ 19,564.00

Rental Rate Blue Book®
Ford F-250 SD

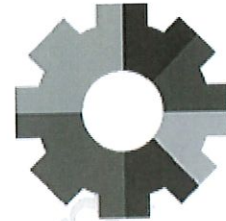
On-Highway Light Duty Trucks

Size Class:

300 HP & Over

Weight:

HP


Configuration for F-250 SD

Axle Configuration	4.0 X 4.0	Cab Type	Crew
Horsepower	300.0	Power Mode	Gasoline
Ton Rating	3.0 / 4.0		

Blue Book Rates

** FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs	FHWA Rate**
	Monthly	Weekly	Daily	Hourly	Hourly	Hourly
Published Rates	\$890.00	\$250.00	\$63.00	\$9.00	\$19.65	\$24.71
Adjustments						
Region (100%)	-	-	-	-		
Model Year (2019: 100%)	-	-	-	-		
Adjusted Hourly Ownership Cost (100%)	-	-	-	-		
Hourly Operating Cost (100%)					-	
Total:	\$890.00	\$250.00	\$63.00	\$9.00	\$19.65	\$24.71

Non-Active Use Rates

	Hourly
Standby Rate	\$3.59
Idling Rate	\$20.74

Rate Element Allocation

Element	Percentage	Value
Depreciation (ownership)	54%	\$480.60/mo
Overhaul (ownership)	29%	\$258.10/mo
CFC (ownership)	7%	\$62.30/mo
Indirect (ownership)	10%	\$89.00/mo
Fuel (operating) @ 2.75	80%	\$15.68/hr

Revised Date: 1st half 2019

These are the most accurate rates for the selected Revision Date(s). However, due to more frequent online updates, these rates may not match Rental Rate Blue Book Print. Visit the Cost Recovery Product Guide on our Help page for more information.

The equipment represented in this report has been exclusively prepared for MICHAEL SHESTON (Michael.Sheston@kiewit.com)



P.O. Box 458
2491 Wehrle Dr
Williamsville, NY 14221

Quotation

Quote #: 25901848

Quotation Number	Quotation Date	Customer Reference Number	Valid from:	Valid to:	Payment Terms	Currency
25901848	01/03/2020		01/03/2020	04/02/2020	10 days net	USD

Sold to Account#: 10R9382741

KIEWIT WATER FACILITIES SOUTH
135 CLAUDE YATES DR
FRANKLIN TN 37064

Attn: MICHAEL CALLISON
Phone#: 972-975-7931
FAX#:

Ship to:

KIEWIT WATER FACILITIES SOUTH
135 CLAUDE YATES DR
FRANKLIN TN 37064
USA

Your Local Sales Rep(s):

Anthony H

To Place Your Order Please Reference Quote and Line Number
Thank you for the opportunity to quote per your requirements.

LINE#	OUR INTERNAL PART NUMBER DESCRIPTION	QUANTITY	U/M	PRICE / PER	EXTENDED PRICE
0010	VALVE TAG CUSTOM QUOTED VALVE TAGS YOUR CUSTOM PART WILL BE MANUFACTURED PER: Quote quantity 1 71 Application (Indoor, INDOOR OUTDOOR Material ALUMINUM 18GAUGE Size 3WX1.25 Shape? (Square, Roun RECTANGLE Color NATURAL Black fill or Nat. NATURAL Copy 2 sides? NO Specify Copy Side 1 < LIST> Additional Informati < SEE TEXT> Lead Time (Bus Days) 12 Setup Charge	71	EA	10.35 /1	734.85
				Setup Charge	75.00
				Item Total	809.85
0020	79268 STAINLESS STEEL VALVE TAG WIRE 1800 FEET	1	ROL	98.10 /1	98.10
				Item Total	98.10
				Net Total	907.95
		Estimated Freight/Handling/Fuel		Surcharge	41.45
	State Tax/GST/HST 66.46 County Tax/PST/HST 26.11			Total Tax	92.57
				Quote Total	1,041.97

For questions, please call us toll free at 1-800-243-6624, e-mail us at setonusa@seton.com, or fax us at 1-800-345-7819. For order status, invoice reprint, or to place an order visit www.seton.com.

**Make Seton Your Source for Safety, Labeling and Signage
Guaranteed Fast & Flawless Every Time.**

TO:	Mr. Steve Davis Project Manager Kiewit Water Facilities South 4405 International Blvd., NW, Suite C-101 Norcross, Georgia 30093 (770) 940-8044	FROM:	CDM Smith 210 25 th Ave. N. Suite 1102 Nashville, TN 37203 (615) 320-3161
DATE:	November 20, 2019		
PROJECT:	City of Franklin, Tennessee Franklin WRF Modifications & Expansion Project		
CCA NUMBER:	30	CDM SMITH PROJ. NO.:	14915-231666
SUBJECT:	Fire Department Connection	CITY PROJECT NO.:	2017-0264
REFERENCE:	(See Below)		

CDM SMITH:

By:

Date:

CONTRACTOR:

By:

Date:

City of Franklin:

By:

Date:



Kiewit

Kiewit Infrastructure South Co.
4800 North Point Parkway, Suite 100
Alpharetta, GA 30022

May 18, 2020

CCA-KIEWIT-00044.00

To: Attn: Mr. Dan Harris

CDM Smith, Inc.
210 25th Avenue North
Suite 1102
Nashville, TN 37203

Reference: Franklin WRF Modifications & Expansion Project
COF Contract No. 2017-0264

Subject: Construction Change Authorization No. 030 – Fire Department Connection (REV)

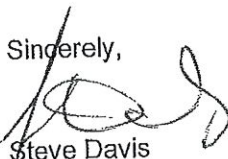
Dear Mr. Harris,

Kiewit is hereby submitting a revised credit proposal for CCA No. 030 – Fire Department Connection in the amount of **Two Thousand Nine Hundred Twenty Nine Dollars (\$2,929.00)**. On top of arithmetic errors, the original cost proposal failed to include Subcontract subtotal price in the total cost. There has been no change to the scope.

This proposal includes the deletion of the free-standing Fire Department Connection (FDC) and piping from the FDC to the Solids Processing Building shown on **Sh. C-23**, by providing a wall mounted FDC, Sidewalk Siamese Type with 2-1/2" outlets with locking caps by Knox as approved by Franklin Fire Department (FFD) installed on the exterior wall of Odor Control Chemical Metering Area (C-100) and emergency box by Knox, in accordance with **CCA No. 030 – Fire Department Connection**.

If you have any questions, please do not hesitate to contact me at (678) 794-2121.

Sincerely,


Steve Davis
Project Manager

cc: File
Michelle Hatcher



CCA NO.: 030 Fire Department Connection

PREPARED BY: Kian Lawio

DESCRIPTION	QTY	UNIT	M/H Per Unit	Total M/H	DIRECT LABOR		INDIRECT LABOR		MATERIAL		CONST. EQUIPMENT		SUBCONTRACT		OTHER		TOTAL AMOUNT
					Unit	Total Cost	Unit	Total Cost	Unit	Total Cost	Unit	Total Cost	Unit	Total Cost	Unit	Total Cost	
Delete 6-PW-DI from FDC to the Solids Bldg.	(40.0)	LF															
LABOR																	
EXCAVATE/LAY/BACKFILL 6" DIP @ 0.375 MH/LF	(40.0)	LF															
Foreman	1.0	EA	0.375	(15.0)		\$ 61.04											\$ (915.60)
Pipelayer	1.0	EA	0.375	(15.0)		\$ 48.57											\$ (728.55)
Excavator Operator	1.0	EA	0.375	(15.0)		\$ 36.13											\$ (541.95)
	1.0	EA	0.375	(15.0)		\$ 39.86											\$ (597.90)
MATERIALS																	
6" Ductile Iron Pipe	(40.0)	LF															
6" Ductile Iron 45 Ell	(1.0)	EA															\$ (74.16)
6" Ductile Iron 90 Ell	(1.0)	EA															\$ (89.61)
6" Megalugs	(4.0)	SET															\$ (153.64)
6" Polywrap	(40.0)	LF															\$ (12.40)
#57 TXDOT Stone (Pipe Bedding)	(6.0)	TN															\$ (108.00)
Free-standing FDC	(1.0)	EA															\$ (1,025.00)
CONSTRUCTION EQUIPMENT																	
CAT 314D LCR Excavator	(15.0)	HR															\$ (1,115.40)
CAT 950M Loader	(15.0)	HR															\$ (91.68)
Wacker RT825C	(15.0)	HR															\$ (566.25)
Provide wall mounted FDC and Knox Box																	
SUBCONTRACT																	
International Fire Protection, Inc.	1.0	LS															\$ 3,679.00
Mount Knox Box																	
LABOR																	
MOUNT BOX @ 2 MH/EA	1.0	EA	2.0	2.0		\$ 61.04											\$ 122.08
Foreman	1.0	EA	2.0	2.0		\$ 68.17											\$ 136.34
Pipelayer	1.0	EA															
Core drill 10" Diameter hole for FDC																	
LABOR																	
ASSIST CORE DRILL 10" HOLE @ 5 MH/EA	1.0	EA	5.0	5.0		\$ 61.04											\$ 305.20
Foreman	1.0	EA	5.0	5.0		\$ 68.17											\$ 340.85
Pipelayer	1.0	EA															
INSTALL LINK SEAL & GROUT PIPE @ 2 MH/EA																	
Foreman	1.0	EA	2.0	2.0		\$ 61.04											\$ 122.08
Pipelayer	1.0	EA	2.0	2.0		\$ 68.17											\$ 136.34
MATERIALS																	
Link Seal for 6" DIP (LS-475)	10.0	EA															\$ 500.00
Grout	2.0	BAG															\$ 21.00



CCA NO.: 030 Fire Department Connection

PREPARED BY: Kian Law

DESCRIPTION	QTY	UNIT	MH Per Unit	Total MH	DIRECT LABOR		INDIRECT LABOR		MATERIAL		CONST. EQUIPMENT		SUBCONTRACT		OTHER		TOTAL AMOUNT
					Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	
SUBCONTRACT																	
Core Drill	1.0	EA															\$ 273.00
																	\$ 273.00
OTHER																	
STS - small tools, consumables, safety equip, (5% of direct labor, plus 9.75% sales tax: Formula = Total Direct Labor Subtotal * .05 * 1.0925)	42	MHR				\$ -		\$ -		\$ -		\$ -		\$ -	\$ (2.12)	\$ (88.96)	\$ (88.9)
TAX: (9.75% of Material, Equipment, Other)										\$ (150.09)		\$ (298.04)				\$ (8.67)	\$ (456.8)
BOND (2% of total)						\$ (1,621.11)		\$ -		\$ (1,539.41)		\$ (3,056.85)		\$ 3,952.00		\$ (88.96)	\$ (2,811.1)
SUBTOTALS (NET DECREASE IN COST)						\$ 5.00%		\$ 5.00%		\$ 5.00%		\$ 5.00%		\$ 5.00%		\$ 5.00%	\$ (117.7)
MARKUP % (NET DECREASE IN COST)																	\$ (2,928.8)
SUBTOTALS WITH MARKUPS APPLIED						\$ (81.06)		\$ -		\$ (76.97)		\$ (152.84)		\$ 197.60		\$ (4.45)	\$ (2,929.1)
BOND																	
TOTAL																	\$ (2,929.1)

Attachment A-1 DIP Pipe & Fittings Core & Main Contract

PROJECT NAME: FRANKLIN WRF MODIFICATIONS & EXPANSION PROJECT

ROW	QTY	SIZE	DESCRIPTION	UNIT	TOTAL	EXT WEIGHT	AREA
21470		06"	EBAA 1100 MEGALUG ACC SET	\$ 38.41		54.00	DI UNDERGROUND
21480							
21490	6" WAS FROM SOLIDS PROCESS BLDG TO WAS STORAGE TANK (C-23)						
21500		06"	DI TR-FLEX PIPE PC 350, P-401	\$ 22.38		1,020.00	DI UNDERGROUND
21510		06"X02'-00"	DIP SPOOL PC 350 TR-FLEX BELL X TR-FLEX PE, P-401	\$ 147.41		128.00	DI UNDERGROUND
21520		06"	DI C153 MJ 45 BEND, P-401	\$ 197.77		32.54	DI UNDERGROUND
21530		06"	EBAA 1100 MEGALUG ACC SET	\$ 38.41		36.00	DI UNDERGROUND
21540							
21550	PW (C-18 THRU C-27)						
21560	NOTE: PER C-54 & C-55, 12" WATER MAIN FROM HILLSBOROUGH RD TO STATION 30+00 TO BE INSTALLED BY THE CITY OF FRANKLIN						
21590		06"X05'-00"	DIP SPOOL C153 FLG X PE, T1/CL W/O SEAL COAT	\$ 178.35		272.00	DI INTERIOR
21600		06"	DI C110 FLG 90 BEND, T1/CL W/O SEAL COAT	\$ 173.03		130.00	DI INTERIOR
21610		06"	DI TR-FLEX PIPE PC 350, CL W/O SEAL COAT	\$ 14.94		8,500.00	DI UNDERGROUND
21620		06"X02'-00"	DIP SPOOL PC 350 TR BELL X TR-FLEX PE, CL W/O SEAL COAT	\$ 121.16		256.00	DI UNDERGROUND
21630		06"	DI C153 MJ 22 1/2 BEND, CL W/O SEAL COAT	\$ 67.36		59.52	DI UNDERGROUND
21640		06"	DI C153 MJ 90 BEND, CL W/O SEAL COAT	\$ 89.61		159.60	DI UNDERGROUND
21650		06"	DI C153 MJ TEE, CL W/O SEAL COAT	\$ 129.78		58.42	DI UNDERGROUND
21660		06"	DI C153 MJ SOLID SLEEVE, CL W/O SEAL COAT	\$ 78.48		36.00	DI UNDERGROUND
21670		06"	DI C153 MJ 45 BEND, CL W/O SEAL COAT	\$ 74.16		227.78	DI UNDERGROUND
21710		06"	DI C153 MJ CAP, CL W/O SEAL COAT	\$ 35.84		40.00	DI UNDERGROUND
21720		06X03"	DI C153 MJ TEE, CL W/O SEAL COAT	\$ 93.93		42.00	DI UNDERGROUND
21830		08"	DI TJ PIPE PC 350, CL W/O SEAL COAT	\$ 13.89		8,800.00	DI UNDERGROUND
21840		08"	DI TR-FLEX PIPE PC 350, CL W/O SEAL COAT	\$ 19.66		22,000.00	DI UNDERGROUND
21850		08"	DI C153 MJ TEE, CL W/O SEAL COAT	\$ 193.43		261.24	DI UNDERGROUND
21890		08"	DI C153 MJ 45 BEND, CL W/O SEAL COAT	\$ 105.06		425.16	DI UNDERGROUND
21900		08"	DI C153 MJ 90 BEND, CL W/O SEAL COAT	\$ 131.63		58.80	DI UNDERGROUND
21910		08"X10'-00"	DIP SPOOL C153 FLG X PE, T1/CL W/O SEAL COAT	\$ 400.22		366.00	DI INTERIOR
21920		08X06"	DI C153 MJ REDUCER, CL W/O SEAL COAT	\$ 86.52		33.58	DI UNDERGROUND
21930		08X06"	DI C153 MJ FIRE HYDRANT TEE	\$ 186.63		217.47	DI UNDERGROUND
21950		08"	DI C153 MJ 22 1/2 BEND, CL W/O SEAL COAT	\$ 102.58		46.01	DI UNDERGROUND
21960		08X04"	DI C153 MJ TEE, CL W/O SEAL COAT	\$ 134.10		60.01	DI UNDERGROUND
21970		04"	DI TR-FLEX PIPE PC 350, CL W/O SEAL COAT	\$ 59.76		960.00	DI UNDERGROUND
22010		06X03"	DI C153 MJ REDUCER, CL W/O SEAL COAT	\$ 43.26		51.14	DI UNDERGROUND
22020		04X03"	DIP SPOOL C153 FLG X PE, T1/CL W/O SEAL COAT	\$ 191.13		38.00	DI INTERIOR
22030		03"X04'-00"	DIP SPOOL C153 FLG X FLG, T1/CL W/O SEAL COAT	\$ 133.30		304.00	DI INTERIOR
22050		03"X01'-00"	DI C153 MJ 90 BEND, CL W/O SEAL COAT	\$ 56.85		160.00	DI UNDERGROUND
22080		04"X02'-00"	DIP SPOOL PC 350 TR BELL X TR-FLEX PE, CL W/O SEAL COAT	\$ 102.05		24.25	DI UNDERGROUND
22090		12"	DI C153 MJ SOLID SLEEVE, CL W/O SEAL COAT	\$ 207.64		88.00	DI UNDERGROUND
22100		12"	DI TJ PIPE PC 350, CL W/O SEAL COAT	\$ 22.83		91.71	DI UNDERGROUND
22110		12"	DI TR-FLEX PIPE PC 350, CL W/O SEAL COAT	\$ 32.63		7,920.00	DI UNDERGROUND
22120		12X08"	DI C153 MJ TEE, CL W/O SEAL COAT	\$ 323.20		3,600.00	DI UNDERGROUND
22130		12X06"	DI C153 MJ REDUCER, CL W/O SEAL COAT	\$ 165.00		131.26	DI UNDERGROUND
22170						55.64	DI UNDERGROUND

Attachment A-1 DIP Pipe & Fittings Core & Main Contract

PROJECT NAME: FRANKLIN WRF MODIFICATIONS & EXPANSION PROJECT

ROW	QTY	SIZE	DESCRIPTION	UNIT	TOTAL	EXT WEIGHT	AREA
22180		04"	EBAA 1100 MEGALUG ACC SET	\$ 30.87		72.00	DI UNDERGROUND
22190		06"	EBAA 1100 MEGALUG ACC SET	\$ 38.41		1,044.00	DI UNDERGROUND
22200		08"	EBAA 1100 MEGALUG ACC SET	\$ 52.12		1,260.00	DI UNDERGROUND
22210		12"	EBAA 1100 MEGALUG ACC SET	\$ 99.83		320.00	DI UNDERGROUND
22220							
22230			POLYWRAP FOR DI PER ADDENDUM 9				
22240		04"	POLYETHYLENE ENCASEMENT - 8 MIL AWWA C105	\$ 0.31		---	DI UNDERGROUND
22250		06"	POLYETHYLENE ENCASEMENT - 8 MIL AWWA C105	\$ 0.31		---	DI UNDERGROUND
22260		08"	POLYETHYLENE ENCASEMENT - 8 MIL AWWA C105	\$ 0.31		---	DI UNDERGROUND
22270		10"	POLYETHYLENE ENCASEMENT - 8 MIL AWWA C105	\$ 0.37		---	DI UNDERGROUND
22280		12"	POLYETHYLENE ENCASEMENT - 8 MIL AWWA C105	\$ 0.43		---	DI UNDERGROUND
22290		14"	POLYETHYLENE ENCASEMENT - 8 MIL AWWA C105	\$ 0.47		---	DI UNDERGROUND
22300		16"	POLYETHYLENE ENCASEMENT - 8 MIL AWWA C105	\$ 0.53		---	DI UNDERGROUND
22310		20"	POLYETHYLENE ENCASEMENT - 8 MIL AWWA C105	\$ 0.64		---	DI UNDERGROUND
22320		30"	POLYETHYLENE ENCASEMENT - 8 MIL AWWA C105	\$ 1.04		---	DI UNDERGROUND
22330		42"	POLYETHYLENE ENCASEMENT - 8 MIL AWWA C105	\$ 1.21		---	DI UNDERGROUND
22340		54"	POLYETHYLENE ENCASEMENT - 8 MIL AWWA C105	\$ 1.67		---	DI UNDERGROUND
22350		02" x 100'	POLYETHYLENE TAPE	\$ 6.20		---	DI UNDERGROUND
22360							
22370							
22380							

Attachment A
Schedule of Values

Pipe Bedding

Item	Description	Approx. Quantity	Unit of Measure	Unit Price	Total
1	TDOT 57 Stone		TN	\$ 18.00	
2	TDOT Grade D		TN	\$ 12.50	
3	Class A3 Rip Rap		TN	\$ 21.00	
4	Surge Stone		TN	\$ 13.00	
5	Class A1 Rip Rap		TN	\$ 21.00	
6	2" to 3" Stone		TN	\$ 17.75	
7	TDOT #4 Stone		TN	\$ 17.75	
	Approximate Contract Total (without Taxes)				
	Bond (0%)				\$ -

1.0 General Description of the "Work": Provide all supervision, labor, material tools and equipment to furnish and deliver aggregates of the type, at the unit prices, and up to the qty shown on the Schedule of Values.

- .1 FURNISH SECTIONS: 02230 - Granular Materials complete per plans, specifications, and addenda [Addenda 1-6];

Also includes in addition to the above, any other applicable and/or related specification sections, including but not limited to: Division 00 and Division 1 General Requirements

2.0 Including But Not Limited to:

- .1 The Contract price(s) are firm through 12/31/19.
- .2 Seller will provide _0_% of the Seller's total contract dollar value in DBE participation.
- .3 Material is not exempt from sales or use taxes.
- .4 **Industrial Machinery Sales and Use Tax Exemption Certificate – Attachment C-3 (per Specification Section 00800 Supplementary Conditions Article SC-6.10A).** Sales and Use Tax Exemption Certificate will be provided for the Project by the Contractor.
- .5 All Deliveries must include a material ticket recognizing the material and quantity delivered. Delivery Tickets to be signed by Contractor for validation of receipt and acceptance to pay for actual quantities delivered.

3.0 Clarifications:

- .1 Effective 1/1/20 Seller will institute a 3% increase per ton on all remaining aggregate through 12/31/20. An additional 3% increase will be effective per ton starting 1/1/21 through 12/31/21.
- .2 Delivered prices are based on full loads (20 ton or more) a minimum haul may be applied for smaller loads.



FEL GEORGIA WATERWORKS #775
6145 BUFFINGTON RD
COLLEGE PARK, GA 30349-4802

Phone: 770-774-3247
Fax: 770-774-3453

Deliver To:
From: Justin Rhodes
Comments:

15:20:37 DEC 30 2019

Page 1 of 1

FEL #775
Price Quotation
Phone: 770-774-3247
Fax: 770-774-3453

Fire Department Connection Detail FD-1/A

Bid No: B476150
Bid Date: 12/30/19
Quoted By: JDR

Cust Phone: 770-564-8861
Terms: NET 10TH PROX

Customer: WESTERN SUMMIT CONSTRUCTO
PO BOX 452500
OMAHA, NE 68145

Ship To: WESTERN SUMMIT CONSTRUCTO
PO BOX 452500
OMAHA, NE 68145

Cust PO#: FDC CONNECTION

Job Name: FRANKLIN WRF

Item	Description	Quantity	Net Price	UM	Total
SP-5763A	TWO WAY FDC W/ CLAPPER BODY	1	1025.000	EA	1025.00
Net Total:					\$1025.00
Tax:					\$61.50
Freight:					\$0.00
Total:					\$1086.50

Quoted prices are based upon receipt of the total quantity for immediate shipment (48 hours). SHIPMENTS BEYOND 48 HOURS SHALL BE AT THE PRICE IN EFFECT AT TIME OF SHIPMENT UNLESS NOTED OTHERWISE. QUOTES FOR PRODUCTS SHIPPED FOR RESALE ARE NOT FIRM UNLESS NOTED OTHERWISE.

CONTACT YOUR SALES REPRESENTATIVE IMMEDIATELY FOR ASSISTANCE WITH DBE/MBE/WBE/SMALL BUSINESS REQUIREMENTS.

Seller not responsible for delays, lack of product or increase of pricing due to causes beyond our control, and/or based upon Local, State and Federal laws governing type of products that can be sold or put into commerce. This Quote is offered contingent upon the Buyer's acceptance of Seller's terms and conditions, which are incorporated by reference and found either following this document, or on the web at <https://www.ferguson.com/content/website-info/terms-of-sale>
Govt Buyers: All items are open market unless noted otherwise.

LEAD LAW WARNING: It is illegal to install products that are not "lead free" in accordance with US Federal or other applicable law in potable water systems anticipated for human consumption. Products with *NP in the description are NOT lead free and can only be installed in non-potable applications. Buyer is solely responsible for product selection.

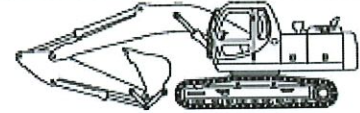
HOW ARE WE DOING? WE WANT YOUR FEEDBACK!

Scan the QR code or use the link below to
complete a survey about your bids:



Rental Rate Blue Book®
Caterpillar 314D LCR (disc. 2013)

Crawler Mounted Hydraulic Excavators



Size Class:

14.1 - 16.0 MTons

Weight:

31085 MT

Configuration for 314D LCR (disc. 2013)

Bucket Capacity - Heaped	0.56 cu yd	Net Horsepower	90.0 hp
Operating Weight	14.1 mt	Power Mode	Diesel

Blue Book Rates

** FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs	FHWA Rate**
	Monthly	Weekly	Daily	Hourly	Hourly	Hourly
Published Rates	USD \$6,990.00	USD \$1,960.00	USD \$490.00	USD \$74.00	USD \$34.64	USD \$74.36
Adjustments						
Region (100%)	-	-	-	-		
Model Year (2013: 100%)	-	-	-	-		
Adjusted Hourly Ownership Cost (100%)	-	-	-	-		
Hourly Operating Cost (100%)					-	
Total:	USD \$6,990.00	USD \$1,960.00	USD \$490.00	USD \$74.00	USD \$34.64	USD \$74.36

Non-Active Use Rates

Standby Rate	Hourly
Idling Rate	USD \$21.05
	USD \$49.67

Rate Element Allocation

Element	Percentage	Value
Depreciation (ownership)	37%	USD \$2,586.30/mo
Overhaul (ownership)	47%	USD \$3,285.30/mo
CFC (ownership)	10%	USD \$699.00/mo
Indirect (ownership)	6%	USD \$419.40/mo
Fuel (operating) @ USD 3.07	29%	USD \$9.95/hr

Revised Date: 2nd half 2019

These are the most accurate rates for the selected Revision Date(s). However, due to more frequent online updates, these rates may not match Rental Rate Blue Book Print. Visit the Cost Recovery Product Guide on our Help page for more information.

The equipment represented in this report has been exclusively prepared for HENRY ALVARADO
(Henry.Alvarado@kiewit.com)

Rental Rate Blue Book®
Caterpillar 950M

4-Wd Articulated Wheel Loaders

Size Class:
225 - 249 HP
Weight:
HP


Configuration for 950M

Bucket Capacity - Heaped
Operator Protection

12.0 cu yd
ROPS/FOPS

Net Horsepower
Power Mode

230.0 hp
Diesel

Blue Book Rates

** FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs	FHWA Rate**
	Monthly	Weekly	Daily	Hourly	Hourly	Hourly
Published Rates	USD \$8,325.00	USD \$2,330.00	USD \$585.00	USD \$88.00	USD \$44.38	USD \$91.68
Adjustments						
Region (100%)	-	-	-	-		
Model Year (2019: 100%)	-	-	-	-		
Adjusted Hourly Ownership Cost (100%)	-	-	-	-		
Hourly Operating Cost (100%)					-	
Total:	USD \$8,325.00	USD \$2,330.00	USD \$585.00	USD \$88.00	USD \$44.38	USD \$91.68

Non-Active Use Rates

Standby Rate
Idling Rate

Hourly
USD \$29.80
USD \$70.04

Rate Element Allocation

Element	Percentage	Value
Depreciation (ownership)	41%	USD \$3,413.25/mo
Overhaul (ownership)	37%	USD \$3,080.25/mo
CFC (ownership)	12%	USD \$999.00/mo
Indirect (ownership)	10%	USD \$832.50/mo
Fuel (operating) @ USD 3.07	51%	USD \$22.74/hr

Revised Date: 2nd half 2019

These are the most accurate rates for the selected Revision Date(s). However, due to more frequent online updates, these rates may not match Rental Rate Blue Book Print. Visit the Cost Recovery Product Guide on our Help page for more information.

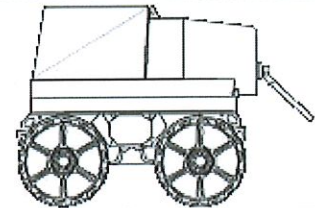
The equipment represented in this report has been exclusively prepared for HENRY ALVARADO
(Henry.Alvarado@kiewit.com)

Rental Rate Blue Book®
Wacker RT820 (disc. 2011)

Trench Compactors

Size Class:
26 - 34 Inches
Weight:
3020 Inches

**Similar to an RT825C
(825C not in Equipment
Watch database)**


Configuration for RT820 (disc. 2011)

Drum Width	32.0 in	Net Horsepower	18.0 hp
Number Of Drums	4.0	Power Mode	Diesel

Blue Book Rates

** FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs	FHWA Rate**
	Monthly	Weekly	Daily	Hourly	Hourly	Hourly
Published Rates	USD \$4,300.00	USD \$1,205.00	USD \$300.00	USD \$45.00	USD \$13.32	USD \$37.75
Adjustments						
Region (100%)	-	-	-	-		
Model Year (2011: 100%)	-	-	-	-		
Adjusted Hourly Ownership Cost (100%)	-	-	-	-		
Hourly Operating Cost (100%)					-	
Total:	USD \$4,300.00	USD \$1,205.00	USD \$300.00	USD \$45.00	USD \$13.32	USD \$37.75

Non-Active Use Rates

	Hourly
Standby Rate	USD \$10.99
Idling Rate	USD \$26.68

Rate Element Allocation

Element	Percentage	Value
Depreciation (ownership)	31%	USD \$1,333.00/mo
Overhaul (ownership)	55%	USD \$2,365.00/mo
CFC (ownership)	7%	USD \$301.00/mo
Indirect (ownership)	7%	USD \$301.00/mo
Fuel (operating) @ USD 3.07	17%	USD \$2.25/hr

Revised Date: 2nd half 2019

These are the most accurate rates for the selected Revision Date(s). However, due to more frequent online updates, these rates may not match Rental Rate Blue Book Print. Visit the Cost Recovery Product Guide on our Help page for more information.

The equipment represented in this report has been exclusively prepared for HENRY ALVARADO
(Henry.Alvarado@kiewit.com)



1820 Linder Industrial Drive
Nashville, TN 37209
Phone: 615-248-6701
Fax: 615-248-6704
candofp.com

Kiewit Infrastructure South Co.
4790 Regent Blvd., Suite 150
Irving, TX 75063

May 11, 2020
M: 972-975-7931

RE: Franklin WRF – Solids Processing Building
Franklin, TN
Add Wall-Mounted FDC - Breakdown

Attn: Michael Callison

Please refer to the proposal dated December 10, 2019 for a wall-mounted Fire Department Connection. This letter provides pricing breakdown as requested:

Design Engineering: 3 hours @ \$ 85.00/hr = **\$ 255.00**
Field Labor: 8 hours @ \$ 98.00/hr = **\$ 785.00**
Material, Tax & Freight: **\$ 2,639.00**

Materials Breakdown

You requested materials invoices or quotes. I am providing vendors' list pricing. International Fire Protection, Inc.'s multipliers are 'proprietary' information and per vendor's agreements, I am not permitted to publish such. Quoted prices include 5% O/H and 10% P.

\$ 161.26 – 4" Viking Model D1 Check Valve
\$ 404.78 – Potter Roemer #5721-B Fire Department Connection
\$ 77.85 – Potter Roemer #5962-B Round Plate
\$ 429.00 – Knox #3261 Surface Mount Box
\$ 526.38 – Knox #3043 2½" Locking FDC Cap (X 2)
\$ 102.75 – ½ stick 4" black sch. 40 pipe
\$ 33.64 – 4" grooved 90 elbow (X 4)
\$ 38.70 – 4" X 1" grooved drain elbow
\$ 62.19 – 4" grooved coupling (X 9)
\$ 41.80 – 4" sch. 40 grooved X threaded adapter nipple
\$ 2.25 – 1" X 0'-2" threaded nipple
\$ 1.90 – 1" X ½" threaded reducing coupling
\$ 8.89 – ½" ball drip
\$ 245.00 – pipe stand (X 2) from stock material
\$ 50.00 – cutting oil/vic grease/Teflon tape/ etc. from stock material
\$ 2,186.39
\$ 202.24 – Tax (9.25%)
\$ 2,388.63

Estimated Freight on Materials including O/H & P: **\$ 250.00**

Page 2
Franklin WRF – Solids Processing Building
Franklin, TN
Add Wall-Mounted FDC - Breakdown

Please refer to files accompanying this letter for vendor list prices, pipe/fab quote and Knox items current quotes

Thank you,



Mike Warren, Project Estimator/Manager

MODEL DIMENSIONS

TWO-WAY WITH CLAPPER BODY

Model No.	Size	Body	Radius of Body Swing	Overall Height
*5761	4" x 2-1/2"	Brass	7-1/4"	24"
*5762	4" x 3"	Brass		
*5763	6" x 2-1/2"	Brass		
*5764	6" x 3"	Brass		

NOTE: * = U/L Listed

THREE-WAY WITH CLAPPER BODY

Model No.	Size	Body	Radius of Body Swing	Overall Height
5771	4" x 2-1/2"	Brass	8"	24"
5773	6" x 2-1/2"	Brass		

FOUR-WAY SQUARE

Model No.	Size	Body	Radius of Body Swing	Overall Height
5775	6" x 2-1/2"	Brass	8"	34"
*5776		Ductile		
5780		Brass		
*5781		Ductile		

NOTE: * = U/L Listed

FOUR-WAY & SIX-WAY WITH CLAPPER BODY

Model No.	Size	Body	Radius of Body Swing	Overall Height
5785	6" x 2-1/2"	Brass	17"	26-1/2"
*5786	6" x 2-1/2"	Ductile		

NOTE: * = U/L Listed

SIX-WAY WITH CLAPPER BODY

Model No.	Size	Body	Radius of Body Swing	Overall Height
5791	6" x 2-1/2"	Brass	25"	26-1/2"
5792	8" x 2-1/2"	Brass		



Call Potter Roemer - Fire Pro for current listings and approvals. Dimensions are subject to manufacturer's tolerance and may change without notice. Potter Roemer - Fire Pro assumes no responsibility for use of void or superseded data. © Copyright Potter Roemer - Fire Pro, Member of Morris Group International™ Please visit potterroemer.com for most current specifications.

5761-5792 SERIES Date: 09/29/14

MEMBERSHIP



POTTER ROEMER/FIRE PRO

Headquarters:
P.O. Box 3527
City of Industry, CA
91744 U.S.A.
Los Angeles Area
800-366-3473
626-855-4890

Also In:
New York (800) 526-4592
Chicago (800) 547-3473
Atlanta (800) 762-0542
Miami (866) 961-3473
Dallas (866) 644-3473

www.potterroemer.com Page 394 of 468

Franklin WRF Modifications & Expansion Project
City of Franklin, TN
Job No.: 103925

Seller: K&H Concrete Cutting of Nashville Inc.
Work Order No.: 103925-WO-011
Contract ID No. XXXXXX-XXX

ATTACHMENT A

SCOPE OF WORK – ADDITIONAL PROVISIONS

Core Drill

Schedule of Values (SOV)

Item	Description	Quantity	Unit of Measure	Unit Price	Total
1	Furnish and Perform 1 -16" core in 10" thick manhole structure (First Trip)	1	EA	\$273.00	\$ 273.00
2	Furnish and Perform 1 -18" core in 10" thick manhole structure (First Trip)	1	EA	\$371.80	\$ 371.80
3	Furnish and Perform 1 - 20" core in 10" thick manhole structure (Second Trip)	1	EA	\$426.40	\$ 426.40
	Total Contract Price (Not to Exceed Amount)				\$ 1,071.20

These Additional Provisions supplement the General Provisions of the Agreement. If there is a conflict between the terms of the Additional Provisions and the terms of the General Provisions, the Additional Provisions will govern.

1.0 SCOPE OF WORK and SCHEDULE

1.1. Inclusions and General Notes

- 1.1.1. The Work Order pricing is firm for the duration of the Project including escalation.
- 1.1.2. The Agreement shows an approximate value in the Schedule of Values, no minimum quantity is guaranteed. All services will be paid at the above pricing for the actual amount of services provided. Seller shall not exceed this value without written consent from Contractor.
- 1.1.3. Seller will provide 0% of the Seller's total contract dollar value in DBE participation.
- 1.1.4. This Project is not tax exempt. All applicable taxes are payable by Seller and are included in Seller's pricing.
- 1.1.5. Seller shall Furnish and Provide all necessary equipment and supplies to core manhole structures at 135 Claude Yates Drive Franklin, TN 37064
- 1.1.6. Subcontractor will provide protection of its Work and adjacent surfaces from damage during the course of the Work.
- 1.1.7. Contractor may request additional coring of manhole structures at the rates shown in the Schedule of Values. The coring of any additional manhole structures shall be determined by the Contractor.
- 1.1.8. Regular Working hours are defined as Monday through Friday, excluding holidays, between the hours of 7:00 AM and 6:00 PM, for a maximum of 55 hours per work week. Requests by Subcontractor to work other than working hours shall be submitted to Contractor not less than 48 hours prior to any proposed weekend work or scheduled extended work weeks. Requests for occasional unscheduled overtime on weekdays shall be submitted to the Contractor for review and approval with not less than 72 hours' notice. Working hours shall comply with the Davis-Bacon Act. There shall be no additional charge to the Contractor for Subcontractor requested overtime.

CONSTRUCTION CHANGE AUTHORIZATION

TO: Mr. Steve Davis
Project Manager
Kiewit Water Facilities South
4405 International Blvd., NW,
Suite C-101
Norcross, Georgia 30093
(770) 940-8044

FROM: CDM Smith
210 25th Ave. N.
Suite 1102
Nashville, TN 37203
(615) 320-3161

DATE: November 20, 2019

PROJECT: City of Franklin, Tennessee
Franklin WRF Modifications & Expansion Project

CCA NUMBER: 31

CDM SMITH PROJ. NO.: 14915-231666

SUBJECT: Automatic Samplers

CITY PROJECT NO.: 2017-0264

REFERENCE: (See Below)

DESCRIPTION: Delete one (1) of the three (3) automatic samplers described in Specifications paragraph 11392-1.01-C. This unit will be provided by the Owner and may be installed in the new Headworks. The automatic sampler currently in service in the existing Headworks is to remain in service until commissioning of the new Headworks is complete, at which time the existing automatic sampler is to be cleaned and turned over to the Owner.

CDM SMITH:

By: _____

Date: _____

CONTRACTOR:

By: _____

Date: _____

City of Franklin:

By: _____

Date: _____



Kiewit Infrastructure South Co.
4405 International Blvd., NW, Suite C-101
Norcross, GA 30093

March 3, 2020

To: Attn: Mr. Dan Harris

CCA-KIEWIT-00025.00

CDM Smith, Inc.
210 25th Avenue North
Suite 1102
Nashville, TN 37203

Reference: Franklin WRF Modifications & Expansion Project
COF Contract No. 2017-0264

Subject: CCA-031 – Deletion of Automatic Sampler and additional accessories

Dear Mr. Harris,

In response to CCA-031, Kiewit hereby proposes a total credit of **Nine Thousand Three Hundred Seventy-Six Dollars (\$9,376.00)**.

This credit includes the deletion of one automatic sampler and additional accessories, as well as labor and equipment costs to remove, clean and turn-over the existing sampler at the new headworks facility to the City of Franklin.

If you have any questions, please do not hesitate to contact me at (678) 794-2121.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Steve Davis', is written over the word 'Sincerely'.

Steve Davis
Project Manager

cc: File
Michelle Hatcher

Kiewit Infrastructure South Co.
4406 International Blvd, Suite #C101
Norcross, Georgia 30093



DATE: 03/3/20

PCO NO.: 031 - Automatic Samplers

PREPARED BY: Steve Davis

DESCRIPTION	QTY	UNIT	MH Per Unit	Total MH	DIRECT LABOR		INDIRECT LABOR		MATERIAL		CONST. EQUIPMENT		SUBCONTRACT		OTHER		TOTAL AMOUNT
					Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	
CCA-031 - Deletion of (1) Automatic Sampler and associated materials																	
Material cost	1.00	EA			\$ -		\$ -		\$ (9,563.00)	\$ (9,563.00)	\$ -		\$ -		\$ -		\$ (9,563.00)
Clean and Turn-over Sampler at Existing HW's	1.00	EA															
Foreman	4.00	HR	4.00	4.0	\$ 61.04	\$ 244.16	\$ -		\$ -		\$ -		\$ -		\$ -		\$ 244.16
Laborer	4.00	HR	4.00	4.0	\$ 38.13	\$ 144.52	\$ -		\$ -		\$ -		\$ -		\$ -		\$ 144.52
F-250 Crew Pickup	1.00	HR			\$ -		\$ -		\$ -		\$ 24.71	\$ 98.84	\$ -		\$ -		\$ 98.84
Forklift	1.00	HR			\$ -		\$ -		\$ -		\$ 60.00	\$ 60.00	\$ -		\$ -		\$ 60.00
Forklift Operator	1.00	HR	1.00	1.0	\$ 48.45	\$ 48.45	\$ -		\$ -		\$ -		\$ -		\$ -		\$ 48.45
**Construction Equipment Ownership & Operating Costs are based on Blue Book FHWA Rates.																	
OTHER																	
STS - small tools, consumables, safety equip, (5% of direct labor, plus 9.76% sales tax; Formula = Total Direct Labor Subtotal * .05 * 1.09725)		MHR				435.13	\$ -		\$ -		\$ -		\$ -		21.70	21.70	21.70
TAX: (9.76% of Material, Equipment, Other)							\$ -		\$ (9,563.00)		\$ 174.33		\$ -		\$ -		\$ (9,388.67)
SUBTOTALS						\$ 435.13	\$ -		\$ (9,563.00)		\$ 174.33		\$ -		\$ -		\$ (8,927.64)
MARKUP %						8.00%			8.00%		8.00%		8.00%		8.00%		8.00%
SUBTOTALS WITH MARKUPS APPLIED						\$ 468.89			\$ -10,041.15		\$ 183.04						\$ (9,376.15)
BOND																	
TOTAL																	

Credit for Automatic Sampler - Pricing from Teledyne Quote				
Item #	Description (see quote for more details)	Qty	Unit Price	Total Price
685800200	Sampler	1	\$ 6,593.00	\$ 6,593.00
685800020	Cable	1	\$ 99.00	\$ 99.00
6858000111	Bottle Kit 1-20L	1	\$ 199.00	\$ 199.00
682930005	Bottle (5.5 gal)	7	\$ 142.00	\$ 994.00
685800015	Bottle Kit 24-1L	1	\$ 381.00	\$ 381.00
603709002	Access Kit	1	\$ 20.00	\$ 20.00
692903138	Strainer	1	\$ 61.00	\$ 61.00
681680058	Vinyl Suction Line	1	\$ 86.00	\$ 86.00
605314713	Output alarms	1	\$ 962.00	\$ 962.00
605304904	Surge Protector	1	\$ 168.00	\$ 168.00
			Total	\$ 9,563.00



Federal ID No: 95-4888283

Quote No: 00035113 Rev: 5 Print Date: 1/31/2019

Sold To:
All Project Bidders
City of Franklin
Water Reclamation Facility
Franklin, TN 37064

Sales Quotation

Bill To:
All Project Bidders
City of Franklin
Water Reclamation Facility
Franklin, TN 37064

Ship To:
All Project Bidders
City of Franklin
Water Reclamation Facility
Franklin, TN 37064

Customer Reference		Customer Contact		Email		Delivery Terms			
						Origin – S&H Added			
Quotation Valid Until		Teledyne Contact		Teledyne Phone		Payment Terms		Payment Mode	
3/2/2019		Emmons, Niki Marie				Pending Credit			
SUBMIT ORDERS TO:						Named Destination		Creation Date	
Teledyne Instruments, Inc., dba: Teledyne Isco. Isco.Orders@teledyne.com or 800–228–4373								6/13/2018	
Line	Item Number		Description			U/M	Quantity	Unit Price	Amount

REF: FRANKLIN WRF MODIFICATIONS & EXPANSION PROJECT - CITY OF FRANKLIN, TN

We have reviewed Section 11392 (Automatic Samplers) only. We cannot guarantee compliance with any other pages, sections or drawings.

Other specification comments:

1.03 (Submittals) Please note Teledyne Isco's standard submittals and operation & maintenance manuals will be provided. They will not be customized or altered in any way. Submittal information includes product literature, warranty information and engineering specifications/drawings. Instruction or operation & maintenance manuals are not included in the submittals, but are provided with the shipped unit.

1.03.A.6.a.5 (Submittals) No lubricants required.

1.07.A.1 (Maintenance) No special tools are required for operation or maintenance of the 5800 and none will be included.

1.07.A.3 (Maintenance) No lubricants required.

1.08 (Warranty) Teledyne Isco's standard warranty applies to this quotation. This is a 2-year duration, rather than the 1-year specified. We will accept a delayed startup of the warranty, but the warranty period must commence no later than six (6) months after ship date. A formal letter must be sent to the Repair Manager giving notification of actual warranty commencement date.

2.01.A (Materials and Equipment) Pump tubing is silicone rubber. We know of no pump tubing manufactured of vinyl or Teflon by any manufacturer, although these are normal components of the suction line.

2.01.D.4. (Materials and Equipment) Teledyne ISCO only offers Uniform times.

2.01.E (Materials and Equipment) Teledyne Isco does not offer a 4 gallon bottle. We have quoted our 5.5 gallon.

2.01.I. (Materials and Equipment) The lithium battery is for program memory only. This does not power the pump drive. The backup battery is lead acid and does not power the refrigerator.

2.01.I. (Materials and Equipment) The enclosure contains a resistor that provides the function of evaporation.

2.01.I. (Materials and Equipment) All exposed hardware shall be stainless steel or aluminium.

All requirements for Part 3 (Execution) are the responsibility of others.

Any applicable sales tax is additional.

0	685800200	ea	3.00	6,593.00	19,779.00
---	-----------	----	------	----------	-----------

These items are controlled by the U.S. government and authorized for export only to the country of ultimate destination for use by the ultimate consignee or end-user(s) herein identified. They may not be resold, transferred, or otherwise disposed of, to any other country or to any person other than the authorized ultimate consignee or end-user(s), either in their original form or after being incorporated into other items, without first obtaining approval from the U.S. government or as otherwise authorized by U.S. law and regulations.

Continued***

Seller's Offer, and any order issued by Buyer to Seller for the goods and/or services specified herein, is strictly limited to Seller's General Terms and Conditions of Sale, which can be found at the applicable Teledyne company internet website listed below. Teledyne ISCO, Teledyne Tekmar, Teledyne Leeman Labs, Teledyne Hanson, Teledyne SSI and Teledyne Cetac are registered business names of Teledyne Instruments, Inc., a subsidiary of Teledyne Technologies Incorporated. Teledyne Ethics Line 1-877-666-6968





TELEDYNE INSTRUMENTS, INC.
Everywhere you look™

Federal ID No: 95-4888283

Page 2 of 4

Quote No: 00035113 Rev: 5 Print Date: 1/31/2019

Sold To:
All Project Bidders
City of Franklin
Water Reclamation Facility
Franklin, TN 37064

Sales Quotation

Bill To:
All Project Bidders
City of Franklin
Water Reclamation Facility
Franklin, TN 37064

Ship To:
All Project Bidders
City of Franklin
Water Reclamation Facility
Franklin, TN 37064

Customer Reference		Customer Contact		Email		Delivery Terms			
						Origin – S&H Added			
Quotation Valid Until		Teledyne Contact		Teledyne Phone		Payment Terms		Payment Mode	
3/2/2019		Emmons, Niki Marie				Pending Credit			
SUBMIT ORDERS TO:						Named Destination		Creation Date	
Teledyne Instruments, Inc., dba: Teledyne Isco. Isco.Orders@teledyne.com or 800-228-4373								6/13/2018	
Line	Item Number		Description			U/M	Quantity	Unit Price	Amount

Line	Item Number	Description	U/M	Quantity	Unit Price	Amount
		SMPLR 5800 115V W/HTR & BAT BK 5800 Refrigerated Sampler with pump heater and lead acid battery backup power (115 VAC, 60 Hz). Includes control panel, refrigeration unit, pump housing heater, battery backup, distributor arm, two pump tubes, instruction manual, and pocket guide. To receive a complete system you must also order a bottle configuration kit and suction line with strainer. ***Includes 2 year limited warranty*** Lead time: Days ARO -224	ea	3.00	99.00	297.00
0	685800020					
		5800 CABLE WITH FLY LEADS 5800 refrigerated sampler multipurpose cable with 16 unterminated leads, 10 ft. (3 m). Includes instruction sheet. Lead time: Days ARO -227	ea	3.00	199.00	597.00
0	685800011					
		BTL KIT 1-20L PLST 1-bottle Configuration. Includes one polyethylene 20.5-liter (5.5 gallon) round bottle, two caps and two discharge tubes. Lead time: Days ARO -220	ea	21.00	142.00	2,982.00
0	682930005					
		BTL 5.5GAL/CAP 5.5-gallon (20.5-liter) polyethylene round bottle with two caps - quantity 1 (not for SR) Lead time: Days ARO -227				

These items are controlled by the U.S. government and authorized for export only to the country of ultimate destination for use by the ultimate consignee or end-user(s) herein identified. They may not be resold, transferred, or otherwise disposed of, to any other country or to any person other than the authorized ultimate consignee or end-user(s), either in their original form or after being incorporated into other items, without first obtaining approval from the U.S. government or as otherwise authorized by U.S. law and regulations.

Continued***

Seller's Offer, and any order issued by Buyer to Seller for the goods and/or services specified herein, is strictly limited to Seller's General Terms and Conditions of Sale, which can be found at the applicable Teledyne company internet website listed below. Teledyne ISCO, Teledyne Tekmar, Teledyne Leeman Labs, Teledyne Hanson, Teledyne SSI and Teledyne Cetac are registered business names of Teledyne Instruments, Inc., a subsidiary of Teledyne Technologies Incorporated. Teledyne Ethics Line 1-877-666-6968



TELEDYNE
ISCO
Everywhere you look™
www.teledyneisco.com
+1-800-228-4373

Federal ID No: 95-4888283

Quote No: 00035113 Rev: 5 Print Date: 1/31/2019

 Sold To:
 All Project Bidders
 City of Franklin
 Water Reclamation Facility
 Franklin, TN 37064

Sales Quotation

 Bill To:
 All Project Bidders
 City of Franklin
 Water Reclamation Facility
 Franklin, TN 37064

 Ship To:
 All Project Bidders
 City of Franklin
 Water Reclamation Facility
 Franklin, TN 37064

Customer Reference		Customer Contact		Email		Delivery Terms				
						Origin - S&H Added				
Quotation Valid Until		Teledyne Contact		Teledyne Phone		Payment Terms		Payment Mode		
3/2/2019		Emmons, Niki Marie				Pending Credit				
SUBMIT ORDERS TO:							Named Destination		Creation Date	
Teledyne Instruments, Inc., dba: Teledyne Isco. Isco.Orders@teledyne.com or 800-228-4373									6/13/2018	
Line	Item Number	Description			U/M	Quantity	Unit Price	Amount		
0	685800015	BTL KIT 24-1L PLST 24-bottle Configuration. Includes 24 polypropylene 1-liter wedge shaped bottles with caps, bottle rack and two discharge tubes. Lead time: Days ARO -218			ea	2.00	381.00	762.00		
0	603709002	ACCESS KIT 3/8" CPLR KB Tubing coupler, 3/8 inch. One-piece, clampless coupler made of stainless steel. Can be used with any Isco sampler. Lead time: Days ARO -227			ea	3.00	20.00	60.00		
0	692903138	STR 3/8 SST LF 3/8 inch stainless steel strainer, low flow. Lead time: Days ARO -230			ea	3.00	61.00	183.00		
0	681680058	TUBE SUCT3/8 100' 3/8 inch vinyl suction line - 100 ft. Includes tubing coupler. Lead time: Days ARO -227			ea	3.00	86.00	258.00		
0	605314713	4700/5800 OUTPUTALARMS 1,2,3&4 SPA 1713. 5800/4700 refrigerated sampler output #1, 2, 3, and 4 alarm box. Lead time: Days ARO -218			ea	3.00	962.00	2,886.00		

These items are controlled by the U.S. government and authorized for export only to the country of ultimate destination for use by the ultimate consignee or end-user(s) herein identified. They may not be resold, transferred, or otherwise disposed of, to any other country or to any person other than the authorized ultimate consignee or end-user(s), either in their original form or after being incorporated into other items, without first obtaining approval from the U.S. government or as otherwise authorized by U.S. law and regulations.

Continued***

Seller's Offer, and any order issued by Buyer to Seller for the goods and/or services specified herein, is strictly limited to Seller's General Terms and Conditions of Sale, which can be found at the applicable Teledyne company internet website listed below. Teledyne ISCO, Teledyne Tekmar, Teledyne Leeman Labs, Teledyne Hanson, Teledyne SSI and Teledyne Cetac are registered business names of Teledyne Instruments, Inc., a subsidiary of Teledyne Technologies Incorporated. Teledyne Ethics Line 1-877-666-6968



TELEDYNE INSTRUMENTS, INC.
Everywhere you look™

Page 4 of 4

Federal ID No: 95-4888283

Quote No: 00035113 Rev: 5 Print Date: 1/31/2019

Sold To:
All Project Bidders
City of Franklin
Water Reclamation Facility
Franklin, TN 37064

Sales Quotation

Bill To:
All Project Bidders
City of Franklin
Water Reclamation Facility
Franklin, TN 37064

Ship To:
All Project Bidders
City of Franklin
Water Reclamation Facility
Franklin, TN 37064

Customer Reference	Customer Contact	Email	Delivery Terms
			Origin - S&H Added
Quotation Valid Until	Teledyne Contact	Teledyne Phone	Payment Terms
3/2/2019	Emmons, Niki Marie		Pending Credit
SUBMIT ORDERS TO:			Creation Date
Teledyne Instruments, Inc., dba: Teledyne Isco. Isco.Orders@teledyne.com or 800-228-4373			6/13/2018

Line	Item Number	Description	U/M	Quantity	Unit Price	Amount
0	605304904	AC/MODEM SURG SUPR SURGE PROTECTOR FOR AC AND MODEM UP TO 8 AC LINES, STANDARD PLUG IN AND 1 MODEM VIA RJ11 CONNECTOR.	ea	3.00	168.00	504.00
0	SAMPTRAIN3PARTY	Lead time: Days ARO -202	ea	1.00	1,200.00	1,200.00
Startup and training provided by your Teledyne ISCO representative, Kazmier & Associates.						
Lead time: Days ARO -231						

Shipping & Handling 1,110.00

These items are controlled by the U.S. government and authorized for export only to the country of ultimate destination for use by the ultimate consignee or end-user(s) herein identified. They may not be resold, transferred, or otherwise disposed of, to any other country or to any person other than the authorized ultimate consignee or end-user(s), either in their original form or after being incorporated into other items, without first obtaining approval from the U.S. government or as otherwise authorized by U.S. law and regulations.

Total Amount 30,618.00 USD

Seller's Offer, and any order issued by Buyer to Seller for the goods and/or services specified herein, is strictly limited to Seller's General Terms and Conditions of Sale, which can be found at the applicable Teledyne company internet website listed below. Teledyne ISCO, Teledyne SSI, Teledyne Tekmar, Teledyne Leeman Labs, Teledyne Hanson and Teledyne Cetac are registered business names of Teledyne Instruments, Inc., a subsidiary of Teledyne Technologies Incorporated. Teledyne Ethics Line 1-877-666-6968



**TELEDYNE
ISCO**
Everywhere you look™
www.teledyneisco.com
+1-800-228-4373

SUBMITTAL COVERSHEET



Customer No:	City of Franklin Water Reclamation Facility Franklin, TN 37064	Sales Order No:	TBD
Quote No: 00035113	***Page 1 of 2***	Customer P.O. No:	TBD
Ref No:		Submittal Date:	04/16/2019
Job Name:	City of Franklin Water Reclamation Facility	Hold for Approval:	☒ YES ☐ NO
		Revisions: (summary of changes to Submittal Documents)	

Quantity	Part No.	Description
3	685800200	5800 Refrigerated Sampler: (115 VAC, 60 Hz). Inc. Pump Heater, Battery Backup Power, Control Panel, Refrigeration Unit, Distributor Arm, 2 Pump Tubes
3	685800020	Cable: Multipurpose Cable w/ 16 Unterminated Leads, 10 ft. (3 m)
3	685800011	Bottle Configuration Kit: Inc. One Polyethylene 5.5 gal Round Bottle, Two Caps, Two Discharge Tubes
21	682930005	Bottle: Inc. 5.5 Gallon Polyethylene Round Bottle with Two Caps (same cut sheet as #685800011)
2	685800015	Bottle Configuration Kit: Inc. 24 Polypropylene 1 liter Wedge Shaped Bottles with Caps, Bottle Rack and Two Discharge Tubes
3	603709002	Coupler: 3/8" One Piece, Clampless Tubing Coupler
3	692903138	Strainer: 3/8" Stainless Steel Strainer, Low Flow
3	681680058	Tube: 3/8" Vinyl Suction Line - 100', Inc. Tubing Coupler

Note: One Installation and Operation manual (O&M) in a standard binder is included with each unit. O&M manuals include start-up, operating procedures, available options, schematics, and spare parts lists. Teledyne Isco does not customize Submittal data or O&M manuals. PDF copies of the O&M manual may be downloaded from our web site www.teledyneisco.com. Additional bound copies are available for purchase through our Customer Service Department.

Document originally signed by Sharon Fischer.
Digital signature removed once Kiewit compiled
submittal into a single document.

Quotation/Submittal & Contracts Specialist

Teledyne Isco
4700 Superior Street
Lincoln, NE 68504
Toll Free: (800) 228-4373
FAX: (402) 465-3022
Email: isco.quotes@teledyne.com

TELEDYNE ISCO
Everywhere you look™

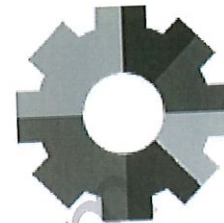
Note: One Installation and Operation manual (O&M) in a standard binder is included with each unit. O&M manuals include start-up, operating procedures, available options, schematics, and spare parts lists. Teledyne Isco does not customize Submittal data or O&M manuals. PDF copies of the O&M manual may be downloaded from our web site www.teledyneisco.com. Additional bound copies are available for purchase through our Customer Service Department.

Quotation/Submittal & Contracts Specialist

Page 402 of 468

Rental Rate Blue Book®
Ford F-250 SD

On-Highway Light Duty Trucks

Size Class:
300 HP & Over
Weight:
HP

Configuration for F-250 SD

Axle Configuration **4.0 X 4.0**
Horsepower **300.0**
Ton Rating **3.0 / 4.0**

Cab Type
Power Mode

Crew
Gasoline

Blue Book Rates

** FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs	FHWA Rate**
	Monthly	Weekly	Daily	Hourly	Hourly	Hourly
Published Rates	\$890.00	\$250.00	\$63.00	\$9.00	\$19.65	\$24.71
Adjustments						
Region (100%)	-	-	-	-		
Model Year (2019: 100%)	-	-	-	-		
Adjusted Hourly Ownership Cost (100%)	-	-	-	-	-	
Hourly Operating Cost (100%)					\$19.65	\$24.71
Total:	\$890.00	\$250.00	\$63.00	\$9.00		

Non-Active Use Rates

Standby Rate
Idling Rate

Hourly
\$3.59
\$20.74

Rate Element Allocation

Element	Percentage	Value
Depreciation (ownership)	54%	\$480.60/mo
Overhaul (ownership)	29%	\$258.10/mo
CFC (ownership)	7%	\$62.30/mo
Indirect (ownership)	10%	\$89.00/mo
Fuel (operating) @ 2.75	80%	\$15.68/hr

Revised Date: 1st half 2019

These are the most accurate rates for the selected Revision Date(s). However, due to more frequent online updates, these rates may not match Rental Rate Blue Book Print. Visit the Cost Recovery Product Guide on our Help page for more information.

The equipment represented in this report has been exclusively prepared for MICHAEL SHESTON (Michael.Sheston@kiewit.com)

Rental Rate Blue Book®

Xtreme XR630

Telescoping Boom Rough Terrain Lift Trucks

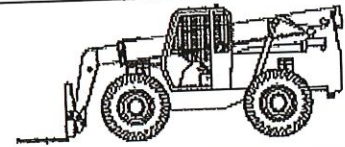
Size Class:
4.0 - 4.4 MTons
Weight:
MT

Configuration for XR630

Base Capacity 6000 lbs
Maximum Lift Height 30.5 ft
Power Mode Diesel

Horsepower
Maximum Reach

74 hp
221.0 in



Kiewit has XR1055 w/ 10,000 lb capacity

Blue Book Rates

** FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs	FHWA Rate**
	Monthly	Weekly	Daily	Hourly	Hourly	Hourly
Published Rates	USD \$5,570.00	USD \$1,560.00	USD \$390.00	USD \$59.00	USD \$23.22	USD \$84.87
Adjustments						<i>\$60.00</i>
Region (100%)	-	-	-	-		
Model Year (2019: 100%)	-	-	-	-		
Adjusted Hourly Ownership Cost (100%)	-	-	-	-		
Hourly Operating Cost (100%)					USD \$23.22	USD \$54.87
Total:	USD \$5,570.00	USD \$1,560.00	USD \$390.00	USD \$59.00	USD \$23.22	

Non-Active Use Rates

Standby Rate
Idling Rate

Hourly
USD \$13.61
USD \$38.03

Rate Element Allocation

Element	Percentage	Value
Depreciation (ownership)	30%	USD \$1,671.00/mo
Overhaul (ownership)	57%	USD \$3,174.90/mo
CFC (ownership)	6%	USD \$334.20/mo
Indirect (ownership)	7%	USD \$389.90/mo
Fuel (operating) @ USD 3.07	27%	USD \$6.38/hr

Revised Date: 2nd half 2019

These are the most accurate rates for the selected Revision Date(s). However, due to more frequent online updates, these rates may not match Rental Rate Blue Book Print. Visit the Cost Recovery Product Guide on our Help page for more information.

The equipment represented in this report has been exclusively prepared for MICHAEL SHESTON (Michael.Sheston@kiewit.com)

** Equipment Watch does not have Xtreme XR1055 10k lb capacity. Used \$60/hr FHWA Rate*

CONSTRUCTION CHANGE AUTHORIZATION

TO: Mr. Steve Davis
Project Manager
Kiewit Water Facilities South
4405 International Blvd., NW,
Suite C-101
Norcross, Georgia 30093
(770) 940-8044

FROM: CDM Smith
210 25th Ave. N.
Suite 1102
Nashville, TN 37203
(615) 320-3161

DATE: August 30, 2019

PROJECT: City of Franklin, Tennessee
Franklin WRF Modifications & Expansion Project

CCA NUMBER: 023

CDM SMITH PROJ. NO.: 14915-231666

SUBJECT: Reclaimed Water Pump Station

CITY PROJECT NO.: 2017-0264

REFERENCE: (See Below)

DESCRIPTION: Remove existing 30hp Pump #1 and associated piping, control and power wiring. Furnish and install a new 125hp pump in this space with associated piping, power and control wiring per the attached.

CDM SMITH:

By: _____

Date: _____

CONTRACTOR:

By: _____

Date: _____

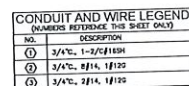
City of Franklin:

By: _____

Date: _____



CONFORMED DRAWING - AUGUST 2018



RECORD DRAWINGS



Kiewit

Kiewit Infrastructure South Co.
4800 North Point Parkway, Suite 100
Alpharetta, GA 30022

February 22, 2020

To: Attn: Mr. Dan Harris

CCA-KIEWIT-00016.00

CDM Smith, Inc.
210 25th Avenue North
Suite 1102
Nashville, TN 37203

Reference: Franklin WRF Modifications & Expansion Project
COF Contract No. 2017-0264

Subject: Construction Change Authorization No. 023 - Reclaimed Water Pump Station Additional Pump

Dear Mr. Harris,

Kiewit is hereby submitting a cost proposal for **Construction Change Authorization No. 023 - Reclaimed Water Pump Station Additional Pump** in the amount of **One Hundred Thirty-Seven Thousand Eight Hundred Twenty-Two Dollars (\$137,822.00)**. This proposal includes removal of the existing 30hp Pump #1 as well as the furnishing and installation of a new 125hp pump in the space with associated piping, power and control wiring. The cost for instrumentation and control modifications for the new pump is not included in this proposal. These changes can be seen on drawings **M-45, M-46, E-41, E-75, and I-21**.

If you have any questions, please do not hesitate to contact me at (678) 794-2121.

Sincerely,

Steve Davis
Project Manager

cc: File
Michelle Hatcher



CCA NO.: 023 Reclaimed Water Pump Station

PREPARED BY: Henry A.

DESCRIPTION	QTY	UNIT	MH Per Unit	Total MH	DIRECT LABOR		INDIRECT LABOR		MATERIAL		CONST. EQUIPMENT		SUBCONTRACT		OTHER		TOTAL AMOUNT
					Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	
LABOR																	
REMOVE EXISTING 30 HP Pump #1 @ 25 MH/EA	1.0	EA															\$ 305.20
Foreman	1.0	EA	6.0	6.0	\$ 61.04	\$ 305.20											\$ 305.20
Crew (4 Millwrights)	4.0	EA	6.0	20.0	\$ 62.81	\$ 1,050.20											\$ 1,050.20
REMOVE EXISTING 12" BLIND FLANGE @ 2 MH/EA	1.0	EA															\$ 122.08
Foreman	1.0	EA	2.0	2.0	\$ 61.04	\$ 122.08											\$ 122.08
Crew (2 Millwrights)	2.0	EA	2.0	4.0	\$ 62.81	\$ 210.04											\$ 210.04
TRANSPORT EXISTING 30 HP Pump #1 @ 2 MH/EA	1.0	EA															\$ 92.90
Forklift/Operator	1.0	EA	2.0	2.0	\$ 46.45	\$ 92.90											\$ 92.90
INSTALL NEW 125 HP VT Pump @ 50 MH/EA	1.0	EA															\$ 508.63
Foreman	1.0	EA	8.3	8.3	\$ 61.04	\$ 508.63											\$ 508.63
Crew (4 Millwrights)	4.0	EA	8.3	33.2	\$ 62.81	\$ 1,743.33											\$ 1,743.33
Forklift/Operator	1.0	EA	8.3	8.3	\$ 46.45	\$ 385.54											\$ 385.54
INSTALL PUMP DISCHARGE PIPING	1.0	LS															\$ 421.69
Foreman	1.0	EA	6.0	6.0	\$ 70.26	\$ 421.69											\$ 421.69
Crew (2 Pipefitters)	2.0	EA	6.0	12.0	\$ 60.70	\$ 608.40											\$ 608.40
ANCHOR & GROUT PUMP BASE @ 1 MH/EA	8.0	EA															\$ 662.11
Foreman	1.0	EA	1.0	8.0	\$ 70.26	\$ 662.11											\$ 662.11
Crew (2 Millwrights)	2.0	EA	1.0	16.0	\$ 38.13	\$ 610.08											\$ 610.08
INSTALL 2" ARVs PER NEW PUMP @ 1 MH/EA	3.0	EA															\$ 210.78
Foreman	1.0	EA	1.0	3.0	\$ 70.26	\$ 210.78											\$ 210.78
Crew (2 Millwrights)	2.0	EA	1.0	6.0	\$ 35.13	\$ 228.78											\$ 228.78
MATERIALS																	\$ 88,432.00
Vertical Turbine Pump 125 HP	1.0	EA				\$ 88,432.00				\$ 88,432.00							\$ 88,432.00
Anchors (318 SS w/ 25% Hook w/ Steeves)	8.0	EA				\$ 60.09				\$ 480.72							\$ 480.72
Epoxy Grout	3.0	CF				\$ 138.56				\$ 409.68							\$ 409.68
2" Air Release Valves	3.0	EA				\$ 1,245.00				\$ 3,735.00							\$ 3,735.00
2" Galvanized Pipe & Fittings (ARVs)	1.0	LS				\$ 1,595.80				\$ 1,595.80							\$ 1,595.80
Pump Discharge Piping	1.0	LS				\$ 1,716.35				\$ 1,716.35							\$ 1,716.35
SUPPLIES																	\$ 45.00
Grout Forms	3.0	8F													\$ 15.00	\$ 45.00	\$ 45.00
Baker Scaffold (Access to existing 12" Tee)	1.0	LS													\$ 681.18	\$ 681.18	\$ 681.18
CONST. EQUIPMENT																	\$ 2,803.50
Crane 75 TN	15.0	HR								\$ 186.90	\$ 2,803.50						\$ 2,803.50
Forklift	2.0	HR								\$ 84.12	\$ 168.24						\$ 168.24
SUBCONTRACT																	\$ 1,000.00
Millwright Inspection Subcontractor	1.0	LS										\$ 1,000.00	\$ 1,000.00				\$ 1,000.00
Vibration Testing Subcontractor	1.0	LS										\$ 4,733.00	\$ 4,733.00				\$ 4,733.00
Electrical Subcontractor - WJGE	1.0	LS										\$ 7,326.85	\$ 7,326.85				\$ 7,326.85
**Construction Equipment Ownership & Operating Costs are based on Blue Book FHWA Rates.																	
OTHER																	\$ 387.20
STB - small tools, consumables, safety equip, (5% of direct labor, plus 0% sales tax: Formula = Total Direct Labor Subtotal * .05 * 1.0975)	134	MHR				\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2.89	\$ 387.20	\$ 387.20
TAX (9.75% of Material, Equipment, Other)												\$ 289.74				\$ 109.64	\$ 399.28
BOND (2% of total)																	\$ -
SUBTOTALS				134		\$ 7,057.67	\$ -	\$ -	\$ 86,369.55	\$ 3,261.48	\$ 13,058.85	\$ 1,233.01	\$ 120,880.84				\$ 120,880.84
MARKUP %						13.00%	15.00%		15.00%	15.00%		5.00%	18.00%				\$ 16,841.20
SUBTOTALS WITH MARKUPS APPLIED						\$ 8,116.32			\$ 110,824.89	\$ 3,760.71	\$ 13,711.78	\$ 1,417.96	\$ 137,821.76				\$ 137,821.76
BOND																	\$ -
TOTAL																	\$ 137,821.76



FAIRBANKS NIJHUIS™

Quotation

Date: August 26, 2019

To: **Kiewit Water Facilities South**
4800 North Point Parkway, Suite 100
Alpharetta, GA 30022
Attn: Steve Davis, Project Manager

SUBJECT: Franklin TN WWTP – spare pump

Fairbanks Nijhuis is pleased to offer for the following specified pumps for your consideration on the subject job:

Section: 11214 – Vertical Turbine Pumps

Quantity one (1) Fairbanks Nijhuis Pumps – Model 13H 3 stage Vertical Turbine pump designed for 2000 gpm @ 120' TDH.

- Pump bowls including suction bell cast iron ASTM A-48 CL30
- 316SST Impellers
- Dynamically balance impellers
- 316SST impeller fasteners
- SST wear rings
- 17-4ph SST pump shaft
- 12" Fabricated Discharge elbow
- 12" Flanged column
- 316SST lineshafting and couplings
- Fabricated motor pedestal
- Soleplate
- Chesterton 155 Mechanical Seal
- 316SST Shaft Sleeve
- Vortex Suppressor
- Motor: 125hp, 1800rpm, 3/60/460, VSS, TEFC, NRR, inverter duty
- Flanged spacer coupling
- Exterior and Interior coated per section 09901 and 09902
- Startup and training services
- Witnessed Hydro and performance test performed in accordance with section 11214

No other products or services are included other than what is listed above



FAIRBANKS NIJHUIS™

Clarifications:

Section 11214:

- 2.02.C – the secondary condition efficiency will not be guaranteed and is outside the AOR, and will only be guaranteed for intermittent operation.

Section 16150:

- 1.03.A.7, 2.06, 2.07.C – motor mfg does not recommend the use of power factor correction capacitor as serious damage may occur to the motor and VFD.
- 1.03.D – [Clarification] Motors shall carry the limited warranty period of 36 months from the date of installation not to exceed 42 months from the date of manufacturing, whichever expires first.
- 2.08.B.2 – Motor will not exceed the 650% inrush limit. (Note: Since motor will run with VFD the VFD will limit inrush current of motor at startup).
- 2.08.B.11 – Screens are not available on enclosed type motors.

Excluded Items:

- Unloading or storage
- Anchor bolts
- VFD's, Motor starters, controls, control panels, or other electrical equipment
- Pressure gauges
- Field installation of pumps, sole plates, motors, couplings and guards.
- Field electrical interconnection
- Field alignment, field performance testing, field painting, field vibration testing or field sound level testing
- Electrical equipment unless noted above as included.
- Instrumentation and gauges, unless noted above as included
- Piping – suction, discharge, gauge, vent, seal and water systems unless noted above as included
- Valves, petcocks and other miscellaneous fittings and hardware
- Standard tools or lubricants
- Any requirements not described in the referenced specification sections within this proposal.

Estimated Schedule:

Submittals
Shipment

10 weeks
24 weeks after approval and release for mfg

Total Bid Price:

\$88,432.00



FAIRBANKS NIJHUIS™

Terms and Conditions of Sale:

Bid Price: Pricing is FCA factory, Kansas City, KS, USA per Incoterms 2010.
No taxes are included in the price.
Pricing is firm through shipment or January 19, 2019, whichever occurs first.

Terms: Terms and Conditions will be per Fairbanks Nijhuis Standard Terms and Conditions KC-585(07/2017), or as mutually agreed to.

Payment terms shall be as follows:
10% with approval of pump submittals
15% upon written release to manufacture
75% upon shipment from the factory in Kansas City, KS, USA

**Per Roy Smith
Quote still valid**

All payment shall be net 30 days from the date of invoice.

Bid Validity: This proposal is valid for an order for ninety (90) days from the bid date and based on all conditions herein.

Warranty: 12 months after equipment startup or 18 months from shipment, whichever occurs first. Terms of warranty shall be per KC-585, attached. Fairbanks Nijhuis will not extend its warranty to cover systems designed and supplied outside this scope of supply.

No delay clauses for delivery or performance of any kind have been considered in the development of this proposal or pricing. Fairbanks Nijhuis reserves the right to revise pricing if such clauses are required. Thank you for the opportunity to present this proposal and we look forward to working with you on this project.

Best regards;

Roy W. Smith

Roy W. Smith
Guthrie Sales & Service, Inc.
7003 Chadwick Drive, Suite 300
Brentwood, TN 37027

Encl: FN KC-585 Terms and Conditions

ECO-TECH, INC. 156 Hickory Springs
Industrial Drive
Canton, GA 30115



P-770-345-2118
F-770-345-2699

July 9, 2019

TO: Kiewit
ATTN: Stephen Reid
QUOTE #: 2838
PROJECT: Franklin WRF
LOCATION: Franklin, TN
ENGINEER: CDM Smith
QUOTATION BY: Jacob Routh
PAGE: 1 of 1

The following equipment has been quoted per specification. Valve boxes, extension stems, stem guides and tee wrenches are not included unless otherwise noted. MJ accessories and flange joint material are not included. Permanent name plates or special tagging is by others.

Tag	Quantity	Description
-----	----------	-------------

Air Release Valves

ARV1	2	2" NPT <i>Vent-Tech</i> Air Release/Vacuum Relief Valve at Vertical Turbine Pumps. 3-363 psi with stainless steel threaded outlet connection, air release valve with Bias Mechanism anti-shock included as standard.
------	---	--

Valves are made in USA and meet AIS requirement, Valve spec 15100, and Vertical Turbine spec 11214.

Should quote 3 EA @ \$1245/Ea

Total Price: \$ 2,490.00

Submittal Lead Time: 1 – 2 weeks after purchase order
Manufacturing Lead Time: 3 – 4 weeks after release
Terms are Net 30
Freight is FOB: Factory, Full Freight Allowed

GRAINGERCHOICE

Galv. Pipe & Fittings

Web Price ⓘ
\$350.88 / each

2" Galvanized Steel Pipe Nipple Assortment

Brand GRAINGER APPROVED
Item # 6KC83
Mfr. Model # 568-000P54GR



GRAINGERCHOICE

Web Price ⓘ
\$64.26 / each

Galvanized Malleable Iron Elbow, 90°, 2" Pipe Size, FNPT Connection Type

Brand GRAINGER APPROVED
Item # 1LBH3
Mfr. Model # 1LBH3



GRAINGERCHOICE

Web Price ⓘ
\$175.19 / each

2" x 10 ft. Galvanized Carbon Steel
Pipe, Pipe Schedule 40



Brand GRAINGER APPROVED

Item # 5E561

Mfr. Model # 568-1200GR

CCA 023:

2" Air Release Valve Pipe & Fittings

3 EA - 2" Galv. Nipples @ \$350.88 x 3 EA = \$1052.64

3 EA - 2" Galv. 90 Elbows @ \$64.26 x 3 EA = \$192.78

2 EA - 2"x10' Galv. Pipe @ \$175.19 x 2 EA = \$350.38

Total = \$1,595.80



SOUTHEAST REGION TREATMENT
PLANT DIVISION

- ALABAMA - FLORIDA - GEORGIA - KENTUCKY - NORTH CAROLINA - SOUTH CAROLINA - TENNESSEE -

6525 US HWY 301 NORTH
TAMPA, FL. 33610
OFFICE: 813.621.1971
FAX: 813.621.3280

Owner City of Franklin, Tennessee
Contractor Kiewit Water Facilities South
Ref Reclaimed Water PS Pump Discharge

SEQ	Qty	Description	Unit Price	Total Price
10		<u>ALL ITEMS ARE AIS COMPLIANT</u>		
20				
30	1	12"x00'-09" DI CL53 FLG X GRV CL/T4A	\$ 329.85	\$ 329.85
40	1	12" VIC FLANGE STYLE 341	\$ 484.00	\$ 484.00
50	2	12" FAS - 316SS B/N W/FF SBR GASKET	\$ 451.25	\$ 902.50
60				
70		TOTAL ADD		\$ 1,265.40
80				<u>1,716.35</u>



APPLIED TECHNICAL SERVICES, INC.

www.atslab.com

1049 Triad Court • Marietta, GA 30062 • 770-423-1400

Proposal for Field Acceptance Testing of Vertical Turbine Pumps



Kiewit

Taylor Flippen

Kiewit Water Facilities South
4800 North Point Parkway, Suite 100
Alpharetta, GA 30022

February 4, 2020

PREPARED BY: RICH MULLIKIN
RELIABILITY CONSULTANT III

REVIEWED BY: DARREN BITTICK
SENIOR RELIABILITY CONSULTANT

PROPOSAL NUMBER: RS-3440 REVISION 1

Professional Engineers and Scientists: Design • Consulting • Testing • Inspection

In states where Applied Technical Services, Inc. does not provide engineering services, engineering services will be provided by ATS Engineering, LLC or licensed subcontractor.

Page 1 of 5



APPLIED TECHNICAL SERVICES, INC.

www.atslab.com

1049 Triad Court • Marietta, GA 30062 • 770-423-1400

1.0 Purpose

The purpose of the proposed work is to provide field acceptance testing of (3) vertical turbine pumps installed as part of the Franklin WRF Modifications & Expansion Project 14915-96594-WRF and described in CDM Smith specification sections provided by Kiewit.

2.0 Scope

ATS Shall provide field acceptance testing of (3) vertical turbine pumps as listed in Table 1 of this section in accordance with applicable Codes, Standards, Specifications and Recognized and Generally Accepted Good Engineering Practice (RAGAGEP), including but not limited to:

- **API RP 686** Recommended Practice for Machinery Installation and Installation Design, current edition
- **ANSI / HI 9.6.4** Rotodynamic Pumps for Vibration Measurements and Allowable Values
- **Technical Associates of Charlotte "The Proven Method"** specifying overall amplitude and spectral narrow band alarm levels
- **Equipment manufacturers' specifications** – Design drawings, Installation, Operations and Maintenance (IOM) manuals as provided by Kiewit.
- **ACI 318** Building Code Requirements for Structural Concrete and Commentary, current edition
- **29 CFR 1910 subpart 'O'** Machinery and Machine Guarding {OSHA}
- **API 610** Centrifugal Pumps for Petroleum, Heavy Duty Chemical and Gas Industry Service
- **API 676** Positive Displacement Pumps – Rotary, current edition
- **ISO 18436; 1 – 8** Condition Assessment and Diagnostics of Machines, current edition
- **ISO 20816; 1 - 8** Mechanical Vibration, current edition
- **ASTM E1934-99a**, Standard Guide for Examining Electrical and Mechanical Equipment with Infrared Thermography, current edition

Specifically **excluded from this scope of work** are the analysis, evaluation, certification, guarantee or verification of:

- Machinery, systems or processes, or suitability for service of machinery for the intended application
- Materials of construction, or suitability of materials of construction for the intended service
- Installation design or analysis of foundations or mounting structures
- Drive motor, instrumentation and controls
- Selection and application of variable frequency drives (VFD)
- Shaft critical speed analysis confirming machinery are operating no closer than 20% from a shaft critical speed
- Torsional vibration analysis
- Determination or evaluation of blade-excited resonant frequencies
- Measurement of sound pressure to confirm machinery is performing within a maximum sound level of 85 dBA.
- Electrical testing of drive motors, controls or instrumentation, including Megger test prior to motor start attempt
- Rotational check of motor prior to performing mechanical field acceptance tests
- Verification of lubrication specification or application
- Provision for temporary gauges, meters or instrumentation for machine performance and system verification
- Tapped holes in the pipes, installation of temporary or permanent piping and wiring required for performance testing and system verification
- Pump performance testing in accordance with ANSI / HI 14.6 and ANSI / HI 9.6.3

Professional Engineers and Scientists: Design • Consulting • Testing • Inspection

In states where Applied Technical Services, Inc. does not provide engineering services, engineering services will be provided by ATS Engineering, LLC or licensed subcontractor.

Page 2 of 5



APPLIED TECHNICAL SERVICES, INC.

1049 Triad Court • Marietta, GA 30062 • 770-423-1400

www.atslab.com

Table 1: Equipment Specified for Field Acceptance Testing

Description	Section	Count	Hp	Speed	Test Criteria	Test Interval	Comments
Vertical Turbine Pumps	11214	3	125	1775	Impact / Excitation Test (a.k.a. 'Bump Test') X-Y vibration profile ANSI 9.6.4	Three (3) tests performed at 3 Hz increments	Re-test after 6 Months

3.0 Deliverables

ATS shall provide Kiewit with comprehensive written field acceptance test report in electronic format. Acceptance report shall include:

- Vibration report in accordance with the requirements of ANSI/HI 9.6.4 Appendix 'A'
- Photographs or detailed sketch of machinery uniquely identifying the machinery and test locations. Indicating thereon where and in which direction the vibration readings were taken.
- Machinery nameplate information and operating condition at time of testing
- Overall amplitude and direction of vibration (X-Y-Z) measured in velocity (in/sec RMS) or displacement (mils peak-peak) for machinery operating less than 600 RPM
- Frequency spectrums for each test location
- Impact / Excitation Tests will report the installed machinery and mounting structure response (natural) frequencies that are within +/- 20% of the machinery shaft RPM over an operating range of 50% to 110% of nameplate RPM.
- Stray electrical currents in bearings and shafting will be reported on an exception-only basis.
- Evaluation of bearing condition at time of testing will be reported on an exception-only basis
- Diagnostic report of exceptional conditions listing probable cause(s)
- Specific recommendations for corrective actions, if required

Excluded from this analysis and reporting are:

- Design of additions, alterations, modifications or repairs to correct structural stiffness or inadequate mounting structure deficiencies
- Design of vibration isolation dampener system
- Evaluation of collateral damage to connected ductwork, piping, neighboring equipment and structures
- Re-testing of equipment after alteration, modification or repair to correct exceptional conditions

4.0 Schedule & Manpower

One consultant for two (2) twelve hour days on-site diagnostic testing at Kiewit's direction.

All work shall be performed Monday through Friday.

Professional Engineers and Scientists: Design • Consulting • Testing • Inspection

In states where Applied Technical Services, Inc. does not provide engineering services, engineering services will be provided by ATS Engineering, LLC or licensed subcontractor.

Page 3 of 5



APPLIED TECHNICAL SERVICES, INC.

www.atslab.com

1049 Triad Court • Marietta, GA 30062 • 770-423-1400

\$14,200/3 pumps = \$4,733

5.0 Cost

The scope of this work outlined in this proposal shall be completed Lump Sum.

Initial Field Acceptance Testing (vertical turbine pumps).....\$7,900

6-Month Follow Up Testing (vertical turbine pumps).....\$6,300

Work requested by the customer and performed in addition to the scope of work outlined in this proposal shall be billed upon the fee schedule listed below.

Fee Schedule

Professional Engineer, Consultant.....	\$190 / hr
Senior Reliability Consultant	\$150 / hr
Reliability Consultant	\$110 / hr
Travel	1.0 x rate
Overtime - in excess of 40 hours per week, nights and weekends	1.5 x rate
Holiday	2.0 x rate
Per Diem	\$ 60 / night
Hotel	cost
Mileage	\$ 0.55 / mile
Test Equipment Shipping and Handling, materials, and consumables	\$400 flat rate
Office and Field Supplies	cost

6.0 Responsibilities of Kiewit

- a. Equipment operational at time of scheduled testing
- b. Site personnel to vary machine operating speed as defined in the CDM Smith test section
- c. Personnel to coordinate site access (site specific safety training) and permits, (including photography)
- d. Provide adequate work space, 110V power source, extension cords and work lights
- e. Provide additional information that may be required as the inspections are performed (i.e. process information)
- f. Safe access to machinery in accordance with 29 CFR 1910 and 1926:
 - OSHA Fall Protection Standard
 - OSHA Confined Space Standard
 - o Atmospheric Testing
 - o Attendant
 - o Entry Supervisor
 - o Fall Arrest Equipment / Retrieval Equipment
- g. ATS employees shall not remove machinery guarding in accordance with 29 CFR 1910 subpart O

Professional Engineers and Scientists: Design • Consulting • Testing • Inspection

In states where Applied Technical Services, Inc. does not provide engineering services, engineering services will be provided by ATS Engineering, LLC or licensed subcontractor.

Page 4 of 5



APPLIED TECHNICAL SERVICES, INC.

www.atslab.com

1049 Triad Court • Marietta, GA 30062 • 770-423-1400

7.0 Additional Considerations

- a. Pricing is based on all travel and work being performed Mon – Fri
- b. ATS has not included pricing for access requirements (e.g. manlifts, scissors lifts, scaffold, etc.)
- c. ATS has not included pricing for any insulation removal or installation
- d. ATS has not included pricing for installation of permanent probes, accelerometers, cabling or lubrication test points
- e. Services provided shall be governed by the ATS General Conditions of Service. Refer to the following link for terms and conditions: <http://www.atslab.com/salesorderacknowledgement.pdf>
- f. This proposal contains proprietary and privileged information which is competition sensitive and not for distribution to others without written authorization

Professional Engineers and Scientists: Design • Consulting • Testing • Inspection

In states where Applied Technical Services, Inc. does not provide engineering services, engineering services will be provided by ATS Engineering, LLC or licensed subcontractor.

Page 5 of 5



**WAYNE J.
GRIFFIN ELECTRIC
INC.**

October 11, 2019

VIA EMAIL ONLY: Steven.Davis1@kiewit.com

Mr. Steven Davis, Project Manager
Kiewit
135 Claude Yates Drive
Franklin, TN 37064

RE: Job #6198 - Franklin WRF Mods and Exp., Franklin, TN
Proposal #14

Dear Mr. Davis:

Wayne J. Griffin Electric, Inc. ("WJGEI") proposes to modify our contract to perform the following lump sum revisions to our work per our enclosed detailed backup:

DESCRIPTION OF WORK:

This proposal is to upsize the Pump at the Reclaimed Water Pump Station to a 125hp from the 30HP that's existing per CCA 23. This proposal is dependent on only having to change the settings in the existing VFD, and accounts for pulling upsized wire to the motor.

Material	\$ 4,493.48
Labor	1,844.50
Overhead & Profit	950.70
Subtotal	\$ 7,288.68
Bond	37.17

Total **\$ 7,325.85**

This is a lump sum forward looking estimate of the above-noted change to our scope of work. This estimate represents a price we are willing to accept to assume the cost risk of this change to our ongoing work given the information provided to us.

Corporate Headquarters:
116 Hopping Brook Road
Holliston, MA 01746
Phone: (508) 429-8830
Fax: (508) 429-7825

Regional Offices:
296 Cahaba Valley Parkway
Pelham, AL 35124
Phone: (205) 733-8848
Fax: (205) 733-8107

1950 Evergreen Boulevard
Suite 300
Duluth, GA 30096
Phone: (678) 417-9377
Fax: (678) 417-9373

2310 Presidential Drive
Suite 101
Durham, NC 27703
Phone: (919) 627-9724
Fax: (919) 627-9727

9801-C Southern Pine Boulevard
Charlotte, NC 28273
Phone: (704) 522-3851
Fax: (704) 522-3856

Mr. Steven Davis
October 11, 2019
Page 2

The labor and material prices contained in this proposal are based upon vendor/subcontractor quotes (if noted) and/or electrical industry pricing guides such as NECA, Trade Service, or R.S. Means, which guides are widely used and accepted in the construction industry to facilitate timely and consistent change order pricing. This estimate is offered for your review, approval and acceptance.

The value included in this proposal does not include any amounts for extended contract duration, overtime, changes in the sequence of work, acceleration, disruptions, interference and/or impacts, and the right is expressly reserved to recover any and all of these related items prior to any final settlement of this contract. The working relationship between your company and ours shall be in accordance with our mutually agreed to contract form.

Wayne J. Griffin Electric, Inc. reserves the right to void this proposal after thirty (30) days from the date above.

If you have any questions regarding the above, please do not hesitate to contact me at (205) 733-8848 ext. 6175 or troberson@wjgei.com.

Very truly yours,

WAYNE J. GRIFFIN ELECTRIC, INC.



Timothy R. Roberson
Project Manager

TRR/jmr

ACKNOWLEDGMENT: The contract modifications stated for the above proposal are acceptable for the work to be performed. The value of the work completed to the date of the next requisition may be billed on that requisition.

Date: _____ Authorized Signature: _____

cc: Corbin Coker, Engineer, Kiewit, Corbin.Coker@Kiewit.com
Calvin Mize, Regional Manager, Wayne J. Griffin Electric, Inc.
Sarah Moore, Project Engineer, Wayne J. Griffin Electric, Inc.



116 Hopping Brook Road, Holliston, MA 01746
(508) 429-8830 FAX (508) 429-9251

CCN#: P-0014, CCA 23 Upgrade RWPS from 30HP to
Date: 10/9/2019
Project Name: Franklin WRF Mods and Exp
Project Number: 06198-00-18
Page Number: 1

Work Description

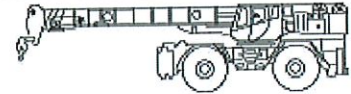
This proposal is to upsize the Pump at the Reclaimed Water Pump Station to a 125hp from the 30HP that's existing per CCA 23. This proposal is dependent on only having to change the settings in the existing VFD, and accounts for pulling upsized wire to the motor.

Itemized Breakdown

Description	Qty	Net Price	UM	Materials (\$)	Labor	Total Hours
As Builts	0.00	0.0000	HRS	0.000	0.000	0.540
Cleanup	0.00	0.0000	HRS	0.000	0.000	0.540
Tools	0.00	0.0000	HRS	0.000	0.000	0.540
Field Safety/JHA	0.00	0.0000	HRS	0.000	0.000	1.080
Supervision	0.00	0.0000	HRS	0.000	0.000	1.080
Project Controls	1.00	562.8600		562.860	4.000	4.000
18"X18"X18" SS NEMA 12 BOX	1.00	2,700.0000		2,700.000	0.000	0.000
ROCKWELL AUTOMATION ADDITIONAL STARTUP	20.00	2.7375	FT	54.750	0.055	1.100
3/4" ALUMINUM CONDUIT	2.00	1.7500	EA	3.500	0.140	0.280
3/4 PVC END BELLS	1.00	7.3500	EA	7.350	0.160	0.160
1" PVC BELL END	3.00	10.6500	EA	31.950	0.300	0.900
3/4" ALUM COUPLING	1.00	17.6500	EA	17.650	0.600	0.600
3/4" RIGID THREADED "LB" CONDULET (ALUM)	2.00	23.7250	EA	47.450	1.100	2.200
3/4 MYERS THREADED GRD HUB	4.00	7.3875	EA	29.550	0.180	0.720
3/4" LIQUID TIGHT STEEL STRAIGHT CONNECTOR	2.00	54.1500	EA	108.300	0.420	0.840
2" LIQUID TIGHT STEEL STRAIGHT CONNECTOR	6.00	2.8983	FT	17.390	0.075	0.450
3/4" LIQUID TIGHT CONDUIT UL	4.00	9.2325	FT	36.930	0.300	1.200
2" LIQUID TIGHT CONDUIT UL	350.00	0.2042	FT	71.470	0.006	2.100
#14 XHHW COPPER WIRE	25.00	3.2080	FT	80.200	0.021	0.525
#1 XHHW COPPER WIRE	80.00	7.9874	FT	638.990	0.033	2.640
4/0 XHHW COPPER WIRE	12.00	1.0400	EA	12.480	0.200	2.400
1/4 x 2 1/4" WEDGE ANCHOR (SS)	12.00	0.1008	EA	1.210	0.001	0.014
1/4 X 1 1/4" FENDER WASHER (SS)	10.00	6.2630	FT	62.630	0.123	1.225
1 5/8" X 1 5/8" 12 GAUGE 1 5/8 X 1 5/8 SLOT 10' STRUT (SS)	6.00	1.4700	EA	8.820	0.030	0.180
3/4 ALUM STRUT CLAMP						
Totals				4,493.48		25.96
Tax				0.00		
Materials with				4,493.48		

Summary

	Itemized Breakdown Total		4,493.48
Elect. Journeyman	(25.9644 hrs @ \$71.04 / hr)	1,844.51	
			1,844.51
Overhead & Profit	(\$6,337.98 @ 15.00%)	950.70	
		950.70	
Bond	(\$7,288.68 @ 0.51%)	37.17	
		37.17	
			987.87
Total			\$7,325.85

Rental Rate Blue Book®
Tadano GR-800XL-1 (disc. 2010)
Rough Terrain Hydraulic Cranes

Size Class:
66.0 - 80.9 MTons
Weight:
107965 MT
Configuration for GR-800XL-1 (disc. 2010)

Axle Configuration	4 X 4 X 4	Maximum Boom Length	144.4 ft
Maximum Lift Capacity	72.6 mt	Net Horsepower	270.0 hp
Power Mode	Diesel		

Blue Book Rates

** FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs	FHWA Rate**
	Monthly	Weekly	Daily	Hourly	Hourly	Hourly
Published Rates	USD \$15,580.00	USD \$4,365.00	USD \$1,090.00	USD \$165.00	USD \$98.38	USD \$186.90
Adjustments						
Region (100%)	-	-	-	-		
Model Year (2010: 100%)	-	-	-	-		
Adjusted Hourly Ownership Cost (100%)	-	-	-	-		
Hourly Operating Cost (100%)					-	
Total:	USD \$15,580.00	USD \$4,365.00	USD \$1,090.00	USD \$165.00	USD \$98.38	USD \$186.90

Non-Active Use Rates

	Hourly
Standby Rate	USD \$47.80
Idling Rate	USD \$122.50

Rate Element Allocation

Element	Percentage	Value
Depreciation (ownership)	37%	USD \$5,764.60/mo
Overhaul (ownership)	45%	USD \$7,011.00/mo
CFC (ownership)	10%	USD \$1,558.00/mo
Indirect (ownership)	7%	USD \$1,090.60/mo
Fuel (operating) @ USD 3.07	35%	USD \$33.98/hr

Revised Date: 2nd half 2019

These are the most accurate rates for the selected Revision Date(s). However, due to more frequent online updates, these rates may not match Rental Rate Blue Book Print. Visit the Cost Recovery Product Guide on our Help page for more information.

The equipment represented in this report has been exclusively prepared for HENRY ALVARADO
(Henry.Alvarado@kiewit.com)

Rental Rate Blue Book®
Xtreme XR1147

Telescoping Boom Rough Terrain Lift Trucks

Size Class:

5.0 MTons & Over

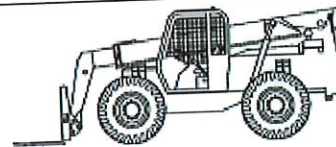
Weight:

MT
Configuration for XR1147

Base Capacity **11000 lbs**
Maximum Lift Height **47 ft**
Power Mode **Diesel**

Horsepower
Maximum Reach

74 hp
378.0 in


Blue Book Rates

** FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs	FHWA Rate**
	Monthly	Weekly	Daily	Hourly	Hourly	Hourly
Published Rates	USD \$8,430.00	USD \$2,360.00	USD \$590.00	USD \$89.00	USD \$36.22	USD \$84.12
Adjustments						
Region (100%)	-	-	-	-		
Model Year (2019: 100%)	-	-	-	-		
Adjusted Hourly Ownership Cost (100%)	-	-	-	-		
Hourly Operating Cost (100%)					USD \$36.22	USD \$84.12
Total:	USD \$8,430.00	USD \$2,360.00	USD \$590.00	USD \$89.00	USD \$36.22	

Non-Active Use Rates

Standby Rate
Idling Rate

Hourly
USD \$20.60
USD \$54.28

Rate Element Allocation

Element	Percentage	Value
Depreciation (ownership)	30%	USD \$2,529.00/mo
Overhaul (ownership)	57%	USD \$4,805.10/mo
CFC (ownership)	6%	USD \$505.80/mo
Indirect (ownership)	7%	USD \$590.10/mo
Fuel (operating) @ USD 3.07	18%	USD \$6.38/hr

Revised Date: 2nd half 2019

These are the most accurate rates for the selected Revision Date(s). However, due to more frequent online updates, these rates may not match Rental Rate Blue Book Print. Visit the Cost Recovery Product Guide on our Help page for more information.

The equipment represented in this report has been exclusively prepared for HENRY ALVARADO
(Henry.Alvarado@kiewit.com)

CONSTRUCTION CHANGE AUTHORIZATION

TO:	Mr. Steve Davis Project Manager Kiewit Water Facilities South 4405 International Blvd., NW, Suite C-101 Norcross, Georgia 30093 (770) 940-8044	FROM:	CDM Smith 210 25 th Ave. N. Suite 1102 Nashville, TN 37203 (615) 320-3161
DATE:	August 30, 2019		
PROJECT:	City of Franklin, Tennessee Franklin WRF Modifications & Expansion Project		
CCA NUMBER:	023	CDM SMITH PROJ. NO.:	14915-231666
SUBJECT:	Reclaimed Water Pump Station	CITY PROJECT NO.:	2017-0264
REFERENCE:	(See Below)		

DESCRIPTION: Remove existing 30hp Pump #1 and associated piping, control and power wiring. Furnish and install a new 125hp pump in this space with associated piping, power and control wiring per the attached.

CONTRACTOR:

By: _____

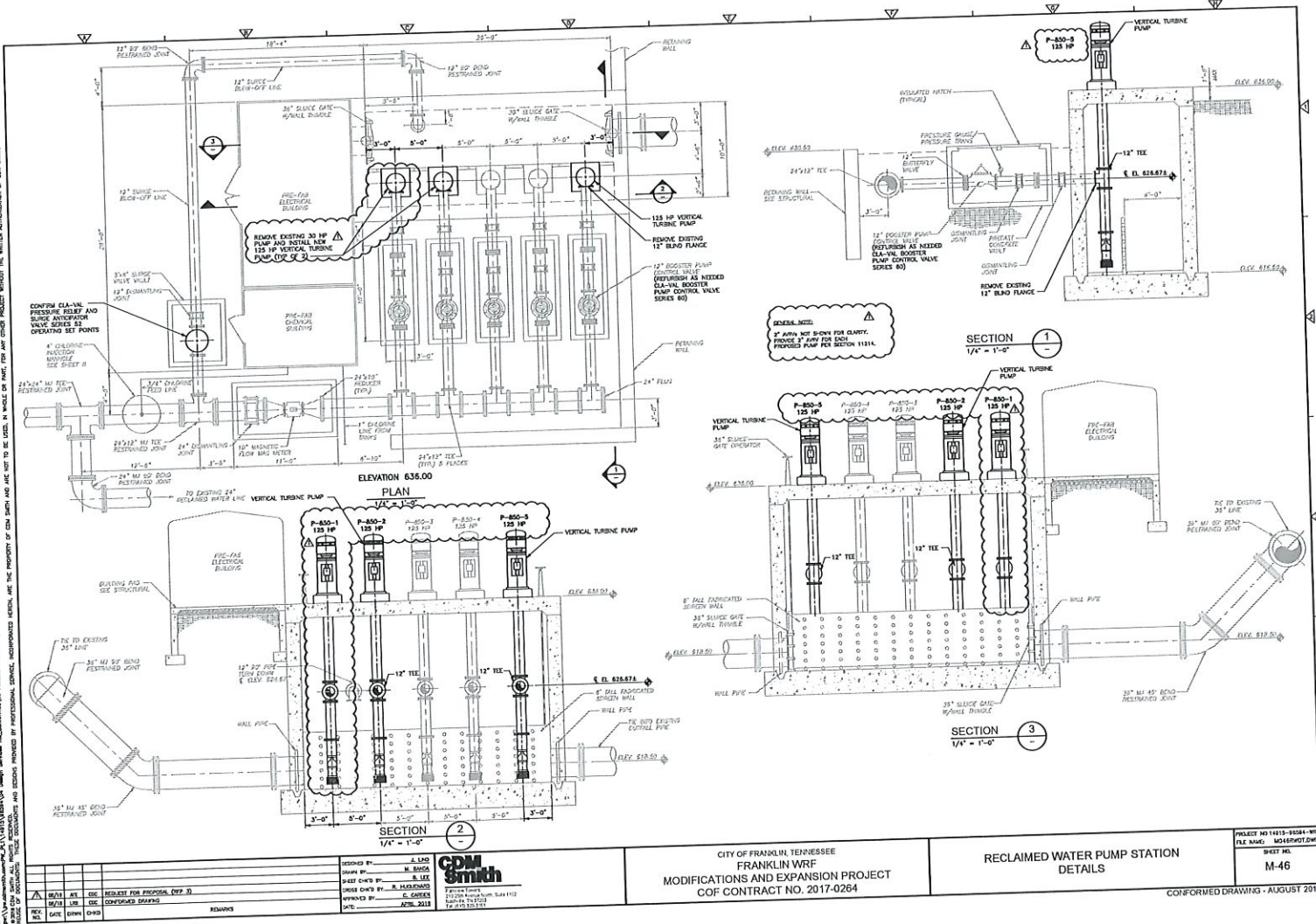
Date: _____

City of Franklin:

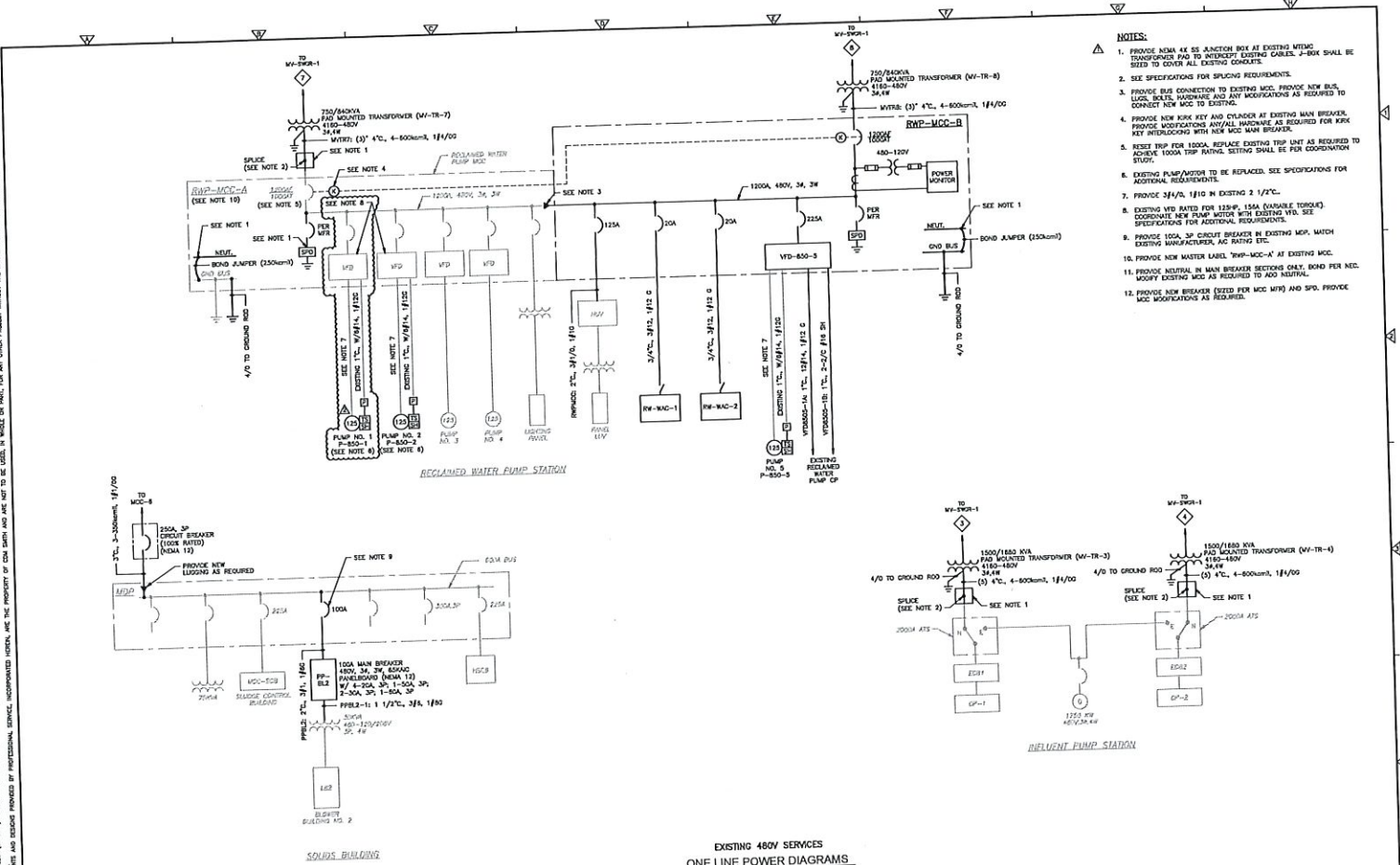
By: _____

Date: _____

THIS DRAWING IS THE PROPERTY OF THE CITY OF FRANKLIN, TENNESSEE. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREON. IT IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF THE CITY OF FRANKLIN, TENNESSEE. THE CITY OF FRANKLIN, TENNESSEE, DOES NOT WARRANT THE ACCURACY OR COMPLETENESS OF THE INFORMATION, DATA, OR OTHER CONTENT CONTAINED HEREIN, AND MAKES NO REPRESENTATION OR WARRANTY AS TO THE RESULTS OF THE USE OF THE INFORMATION, DATA, OR OTHER CONTENT CONTAINED HEREIN.



THIS DRAWING IS THE PROPERTY OF GDM SMITH AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT THE WRITTEN AUTHORIZATION OF GDM SMITH.



- NOTES:**
1. PROVIDE NOM 4E SS JUNCTION BOX AT EXISTING WTRNS TRANSFORMER AND TO INTERCEPT EXISTING CABLES. J-BOX SHALL BE SIZED TO COVER ALL EXISTING CONDUITS.
 2. SEE SPECIFICATIONS FOR SPlicing REQUIREMENTS.
 3. PROVIDE BLUE CONNECTION TO EXISTING MCC. PROVIDE NEW BUS, LOAD, BREAKER, AND ANY MODIFICATIONS AS REQUIRED TO CONNECT NEW MCC TO EXISTING.
 4. PROVIDE NEW KICK KEY AND CYLINDER AT EXISTING MAIN BREAKER. PROVIDE MODIFICATIONS ANY/ALL HARDWARE AS REQUIRED FOR KICK KEY INTERLOCKING WITH NEW MCC MAIN BREAKER.
 5. RESET TRIP FOR 1000A. REPLACE EXISTING TRIP UNIT AS REQUIRED TO ACHIEVE 1000A TRIP RATING. SETTING SHALL BE PER COORDINATION STUDY.
 6. EXISTING PUMP/MOTOR TO BE REPLACED. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
 7. PROVIDE 3/4" Ø, 1/16" IN EXISTING 3 1/2" Ø.
 8. EXISTING VFD RATED FOR 125HP, 1154A (VARIABLE TORQUE). COORDINATE NEW PUMP MOTOR WITH EXISTING VFD. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
 9. PROVIDE 100A, 3P, 480V CIRCUIT BREAKER IN EXISTING MCC. MATCH EXISTING MANUFACTURER, AC RATING ETC.
 10. PROVIDE NEW MASTER LABEL "RWP-MCC-A" AT EXISTING MCC.
 11. PROVIDE NEUTRAL IN MAIN BREAKER SECTION ONLY. BOND PER NEC. VERIFY EXISTING MCC AS REQUIRED TO ADD NEUTRAL.
 12. PROVIDE NEW BREAKER (SIZED PER MCC MFR) AND SPD. PROVIDE MCC MODIFICATIONS AS REQUIRED.

DATE	BY	CHKD	DESCRIPTION
8/13/18	RAC	S.P.	REQUEST FOR PROPOSAL (RFP 3)
8/13/18	RAC	S.P.	CONFIRMED DRAWING
8/13/18	RAC	S.P.	REMOVED FOR BID CHANGES

GDM Smith

DESIGNED BY: P. COUSINS
 DRAWN BY: J. S. S. S.
 CHECKED BY: J. S. S. S.
 DATE: 8/13/18
 APPROVED BY: J. S. S. S.
 DATE: 8/13/18

CITY OF FRANKLIN, TENNESSEE
 FRANKLIN WRF
 MODIFICATIONS AND EXPANSION PROJECT
 COF CONTRACT NO. 2017-0264

EXISTING 480V SERVICES
 ONE LINE POWER DIAGRAMS
 MODIFICATIONS

PROJECT NO 18013-0004-WF
 FILE NAME: E011000.dwg
 SHEET NO: E-41

CONFORMED DRAWING - AUGUST 2018



City of Franklin

109 3rd Ave S.
Franklin, TN 37064
(615) 791-3217

File #: 20-0877

DATE: June 26, 2020

TO: Capital Investment Committee

FROM: Paul Holzen, Director of Engineering
Jonathan Marston, Asst. Director of Engineering

SUBJECT:

Consideration Of **Draft** COF Contract No. 2020-0189, A Professional Services Agreement With ECS Southeast, LLP for On-Call Construction Engineering & Inspection And Testing Services.

PURPOSE:

The purpose of this memorandum is to provide information to the Franklin Board of Mayor and Aldermen (BOMA) concerning COF Contract No. 2020-0189 with ECS Southeast, LLP (ECS) for on-call construction engineering & inspection (CEI) and testing services.

BACKGROUND/STAFF COMMENTS:

In 2019, the City of Franklin hired its first inspector dedicated to the inspection of City capital projects. As multiple projects are under construction simultaneously, there will be a need to supplement this single staff member with additional help. Also, the City is not equipped with the facilities or equipment to perform laboratory tests on construction materials. This on-call contract would allow the City Engineer, with approval by the City Administrator, to issue individual work orders for assistance with inspection or for materials testing.

FINANCIAL IMPACT:

Funding will be allocated as needed for individual work orders. In most cases, staff anticipates utilizing already established capital project funding for specific capital projects.

RECOMMENDATION:

Staff recommends approval of COF Contract No. 2020-0189 with ECS Southeast Limited, LLP.

**CITY OF FRANKLIN, TENNESSEE
PROFESSIONAL SERVICES AGREEMENT
COF Contract No. 2020-0189**

THIS PROFESSIONAL SERVICES AGREEMENT ("Agreement") is by and between the City of Franklin, Tennessee, hereinafter referenced as City, and **ECS SOUTHEAST, LLP** hereinafter referenced as Consultant, who mutually agree as follows:

DECLARATIONS. City desires to retain Consultant to provide engineering, related technical, and other services in connection with City's project hereinafter referenced as Project. The Project is described as follows:

ON-CALL CONSTRUCTION ENGINEERING & INSPECTION (CEI) AND TESTING SERVICES

1. SCOPE OF SERVICES. Consultant shall provide construction engineering & inspection (CEI) services, testing, and related technical services for the Project in accordance with the Scope of Services ("Services") as found in Attachment A which shall be considered as an integral part hereof.
2. Consultant shall submit as a part of Attachment A an individual Fee Schedule for the Project based on the detailed Scope of Services.
3. In event of a conflict between this Agreement and the attached document(s), this Agreement shall supersede conflicting terms and conditions.
4. Consultant shall be paid on a monthly basis for work performed based on the Fee Schedule as contained in Attachment A. Individual Work Orders shall be issued by the City Engineer, approved by the City Administrator, and shall be subject to all terms of this Agreement.
5. This Agreement shall terminate no later than three (3) years from the date of execution.

The Board of Mayor and Aldermen Approved this Agreement on the _____ Day of _____ 202__.

TERMS AND CONDITIONS FOR PROFESSIONAL SERVICES

ARTICLE 1. SERVICES. Consultant will:

- 1.1 Act for City in a professional manner, using that degree of care and skill ordinarily exercised by and consistent with standards of competent consultants using the standards in the industry:
- 1.2 Consider all reports to be confidential and distribute copies of the same only to those persons specifically designated by the City.
- 1.3 Perform all services under the general direction of a senior professional employee, licensed and/or registered in the State of Tennessee, when appropriate.
- 1.4 Designate, in writing, the sole Project representative to coordinate with City the Services to be provided, including all contact information.
- 1.5 Unless provided for in the Project Scope of Services (Attachment A), Consultant shall perform all Services with his own forces (employees). Should sub-consultants be proposed to be used in the Project, a listing of said sub-consultants with Services to be performed shall be provided. After approval of this Agreement, no substitute for sub-consultants shall be allowed unless approved by City.
- 1.6 Retain pertinent records relating to the services performed for a period of seven (7) years following the completion of the work; during this period the records shall be available for review by City at all reasonable times.

ARTICLE 2. CITY'S RESPONSIBILITIES. City, or its authorized representative, will:

- 2.1 Provide Consultant with all information regarding the Project, which is available to, or reasonably obtainable by, the City.
- 2.2 Furnish right-of-entry onto the Project site for Consultant's necessary field studies and surveys. Consultant will endeavor to restore the site to its original condition and shall remain solely liable for all damages, costs and expenses, including reasonable attorneys' fees, for failure to make such restoration.
- 2.3 Designate, in writing, the sole Project representative to coordinate with and direct the Consultant, including all contact information.
- 2.4 Guarantee to Consultant that it has the legal capacity to enter into this contract and that sufficient monies are available to fund Consultant's compensation.

ARTICLE 3. GENERAL CONDITIONS.

- 3.1 Consultant, by the performance of services covered hereunder, does not in any way assume, abridge or abrogate any of those duties, responsibilities or authorities customarily vested in other professionals or agencies participating in the Project.
- 3.2 Consultant shall be responsible for the acts or omissions of any party involved in concurrent or subsequent phases of the Project acting upon written instruction issued by the Consultant.
- 3.3 Neither City nor Consultant may assign or transfer its duties or interest in this Agreement without written consent of the other party.
- 3.4 **ALLOCATION OF RISK AND LIABILITY; GENERAL.** Considering the potential liabilities that may exist during the performance of the services of this Agreement, the relative benefits and risks of the Project, and the Consultant's fee for the services rendered, and in consideration of the promises contained in this Agreement, the City and the Consultant agree to allocate and limit such liabilities in accordance with this Article.

- 3.5 INDEMNIFICATION. Consultant agrees to indemnify and hold City harmless from and against legal liability for all judgments, losses, damages, and expenses to the extent such judgments, losses, damages, or expenses are caused by Consultant's negligent act, error or omission in the performance of the services of this Agreement. In the event judgments, losses, damages, or expenses are caused by the joint or concurrent negligence of Consultant and City, they shall be borne by each party in proportion to its own negligence.
- 3.5.1 SURVIVAL. The terms and conditions of this paragraph shall survive completion of this services agreement.
- 3.6 LIMITATIONS OF RESPONSIBILITY. Consultant shall not be responsible for (a) construction means, methods, techniques, sequences, procedures, or safety precautions and programs in connection with the Project unless specifically undertaken in Attachment A, Scope of Services ; (b) the failure of any contractor, subcontractor, Consultant, or other Project participant, not under contract to Consultant, to fulfill contractual responsibilities to City or to comply with federal, state, or local laws, regulations, and codes; or (c) procuring permits, certificates, and licenses required for any construction unless such procurement responsibilities are specifically assigned to Consultant in Attachment A, Scope of Services.

ARTICLE 4. TERMINATION BY THE CITY. The City may terminate this Agreement in accordance with the following terms and conditions:

- 4.1 Termination for Convenience. The City may, when in the interests of the City, terminate performance under this Agreement with the Consultant, in whole or in part, for the convenience of the City. The City shall give written notice of such termination to the Consultant specifying when termination becomes effective. The Consultant shall incur no further obligations in connection with the work so terminated, other than warranties and guarantees for completed work and installed equipment, and the Consultant shall stop work when such termination becomes effective. The Consultant shall also terminate outstanding orders and subcontracts for the affected work. The Consultant shall settle the liabilities and claims arising out of the termination of subcontracts and orders. The City may direct the Consultant to assign the Consultant's right, title and interest under termination orders or subcontracts to the City or its designee. The Consultant shall transfer title and deliver to the City such completed or partially completed work and materials, equipment, parts, fixtures, information and Contract rights as the Consultant has in its possession or control. When terminated for convenience, the Consultant shall be compensated as follows:
- (1) The Consultant shall submit a termination claim to the City specifying the amounts due because of the termination for convenience together with costs, pricing or other data required by the City. If the Consultant fails to file a termination claim within one (1) year from the effective date of termination, the City shall pay the Consultant the amount the City deems the Consultant is due.
 - (2) The City and the Consultant may agree to the compensation, if any, due to the Consultant hereunder.
 - (3) Absent agreement to the amount due to the Consultant, the City shall pay the Consultant the following amounts:
 - (a) Contract costs for labor, materials, equipment and other services accepted under this Agreement;

- (b) Reasonable costs incurred in preparing to perform and in performing the terminated portion of the work, and in terminating the Consultant's performance, plus a fair and reasonable allowance for direct job site overhead and earned profit thereon (such profit shall not include anticipated profit or consequential damages); provided however, that if it reasonably appears that the Consultant would have not profited or would have sustained a loss if the entire Agreement would have been completed, no profit shall be allowed or included and the amount of compensation shall be reduced to reflect the anticipated rate of loss, if any;

The total sum to be paid the Consultant under this Section shall not exceed the total Agreement Price, as properly adjusted, reduced by the amount of payments otherwise made, and shall in no event include duplication of payment.

- 4.2 Termination for Cause. If the Consultant does not perform the work, or any part thereof, in a timely manner, supply adequate labor, supervisory personnel or proper equipment or materials, or if it fails to timely discharge its obligations for labor, equipment and materials, or proceeds to disobey applicable law, or otherwise commits a violation of a material provision of this Agreement, then the City, in addition to any other rights it may have against the Consultant or others, may terminate the performance of the Consultant, in whole or in part at the City's sole option, and assume possession of the Project Plans and materials and may complete the work.

In such case, the Consultant shall not be paid further until the work is complete. After Completion has been achieved, if any portion of the Contract Price, as it may be modified hereunder, remains after the cost to the City of completing the work, including all costs and expenses of every nature incurred, has been deducted by the City, such remainder shall belong to the Consultant. Otherwise, the Consultant shall pay and make whole the City for such cost. This obligation for payment shall survive the termination of the Agreement.

In the event the employment of the Consultant is terminated by the City for cause pursuant to this Section and it is subsequently determined by a Court of competent jurisdiction that such termination was without cause, such termination shall thereupon be deemed a Termination for Convenience under this Section and the provisions of Section 4.1 shall apply.

- 4.3 Termination for Non-Appropriation. The City may also terminate this Agreement, in whole or in part, for non-appropriation of sufficient funds to complete or partially complete the Project, regardless of the source of such funds, and such termination shall be on the terms of Section 4.1.
- 4.4 The City's rights under this Section shall be in addition to those contained elsewhere herein or provided by law.

ARTICLE 5. SCOPE OF SERVICES. Consultant shall provide the Services as described in Attachment A, Scope of Services.

5.1 By mutual agreement, this Agreement and scope can be amended by the parties. The scope and fee for any additional tasks or services under such amendment shall be mutually negotiated and agreed to in writing prior to beginning such additional tasks or services.

5.2 ENVIRONMENTAL RESPONSIBILITY.

Where drilling/sampling services are involved, the samples obtained from the Project site are the property of the City. Should any of these samples be recognized by the Consultant to be contaminated, the City shall remove them from the Consultant's custody and transport them to a disposal site, all in accordance with applicable government statutes, ordinances, and regulations. For all other samples, the Consultant shall retain them for a sixty (60)-day period following the submission of the drilling/sampling report unless the City directs otherwise; thereafter, the Consultant shall discard the samples in accordance with all federal, state and local laws.

ARTICLE 6. SCHEDULE.

6.1 TIME OF THE ESSENCE. The parties agree that time is of the essence with respect to the parties' performance of all provisions of the Agreement.

6.2 Before executing this Agreement, the Consultant shall have prepared and submitted for approval to the City a Completion Schedule for the Project with milestones for the various stages (tasks) of the Services as outlined in the Scope of Services. The Consultant shall submit and obtain the City's approval for any proposed changes to the logic, durations, sequences, or timing of tasks as approved in the Completion Schedule.

6.3 FORCE MAJEURE. Neither party will be liable to the other for any delay or failure to perform any of the services or obligations set forth in this Agreement due to causes beyond its reasonable control, and performance times will be considered extended for a period of time equivalent to the time lost because of such delay plus a reasonable period of time to allow the parties to recommence performance of their respective obligations hereunder. Should a circumstance of force majeure last more than ninety (90) days, either party may by written notice to the other terminate this Agreement. The term "force majeure" as used herein shall mean the following: acts of God; strikes, lockouts or other industrial disturbances; acts of public enemies; orders or restraints of any kind of the government of the United States or of the State or any of their departments, agencies or officials, or any civil or military authority; insurrections, riots, landslides, earthquakes, fires, storms, tornadoes, droughts, floods, explosions, breakage or accident to machinery, transmission pipes or canals; or any other cause or event not reasonably within the control of either party.

6.4 Should City request changes in the scope, extent, or character of the Project, the fee and the time of performance of Consultant's Services as indicated in Attachment A shall be adjusted equitably.

ARTICLE 7. USE OF DOCUMENTS, DATA.

- 7.1 All Documents, including, but not limited to, reports, drawings, specifications, and computer software prepared by Consultant pursuant to this Agreement are instruments of service in respect to the Project. The City shall retain an ownership and property interest therein whether or not the Project is completed.
- 7.1.1 USE OF DATA SYSTEMS: The City maintains all rights to data systems and data (including derivative or hidden data such as metadata) created and used by the Consultant through information supplied to the Consultant by the City.
- 7.1.2 DISCLOSURE OF DOCUMENTS/DATA. City may be required to disclose documents or data under state or federal law. City shall notify Consultant if a request for data or documents has been made and shall give Consultant a reasonable opportunity under the circumstances to respond to the request by redacting proprietary or other confidential information. Consultant waives any right to confidentiality of any document, e-mail or file it fails to clearly mark on each page as confidential or proprietary. In exchange, Consultant agrees to indemnify, defend, and hold harmless City for any claims by third parties relating thereto or arising out of (i) the City's failure to disclose such documents or information required to be disclosed by law, or (ii) the City's release of documents as a result of City's reliance upon Consultant representation that materials supplied by Consultant (in full or redacted form) do not contain trade secrets or proprietary information, provided that the City impleads Consultant and Consultant assumes control over that claim.
- 7.2 7.2 By execution of this Agreement, Consultant and his sub-consultant(s) grant the City a royalty-free, perpetual, irrevocable, and assignable license to use any and all intellectual property interest Consultant or his sub-consultant(s) possess to any drawings, details, specifications, documents, and other information created before each of their first involvement with the Project and subsequently incorporated into the Project's documents. City-furnished data that may be relied upon by Consultant is limited to the printed copies that are delivered to the Consultant pursuant to Article 2 of this Agreement. Any copyrighted electronic files furnished by City shall be used by Consultant only for the Project as described herein. City's posting or publication of such documents created by Consultant for City shall constitute fair use and shall not constitute an infringement of Consultant's copyright, if any.
- 7.3 Documents that may be relied upon by City are limited to the printed copies (also known as hard copies) that are signed or sealed by the Consultant. Files in electronic media format of text, data, graphics, or of other types that are furnished by Consultant to City are only for convenience of City, unless the delivery of the Project in electronic media format has been dictated in Attachment A, Scope of Services. Any conclusion or information obtained or derived from electronic files provided for convenience will be at the user's sole risk.
- 7.4 Because data stored in electronic media format can deteriorate or be modified inadvertently or otherwise without authorization of the data's creator, the party receiving electronic files agrees that it will perform acceptance tests or procedures within sixty (60) days, after which the receiving party shall be deemed to have accepted the data thus transferred. Any errors detected within the 60-day acceptance period will be corrected by the party delivering the electronic files. Unless stated otherwise herein, Consultant

shall not be responsible to maintain documents stored in electronic media format after acceptance by City.

- 7.5 When transferring documents in electronic media format, Consultant makes no representations as to long term compatibility, usability, or readability, of documents resulting from the use of software application packages, operating systems, or computer hardware differing from that as required of, and used by, Consultant at the beginning of this Project.
- 7.6 City may make and retain copies of Documents for information and reference in connection with use on the Project by the City, or his authorized representative. Such Documents are not intended or represented to be suitable for reuse by City or others on extensions of the Project or on any other project. Any such reuse or modifications without written verification or adaptation by Consultant, as appropriate for the specific purpose intended, will be at City's sole risk and without liability or legal exposure to the Consultant or to Consultant's sub-consultants.
- 7.7 If there is a discrepancy between the electronic files and the hard copies, the hard copies govern.
- 7.8 Any verification or adaptation of the Documents for extensions of the Project or for any other project will entitle Consultant to further compensation at rates to be agreed upon by City and Consultant.

ARTICLE 8. INSURANCE.

- 8.1 During the performance of the Services under this Agreement, Consultant shall maintain the following minimum insurance:
 - a) General Liability Insurance with a combined single limit of \$1,000,000 per occurrence and \$2,000,000 annual aggregate.
 - b) Automobile Liability Insurance with a combined single limit of \$1,000,000 for each person and \$1,000,000 for each accident.
 - c) Workers' Compensation Insurance Coverage A in accordance with statutory requirements and Coverage B, Employer's Liability Insurance, with a limit of \$500,000 for each occurrence.
 - d) Professional Liability Insurance with a limit of \$1,000,000 annual aggregate.
- 8.2 Consultant shall add the City an additional insured on all policies unless otherwise prohibited.
- 8.3 Consultant shall, upon execution of this Agreement, furnish City certificates of insurance, which shall include a provision that such insurance shall not be canceled without at least thirty (30) days' written notice to City.
- 8.4 No insurance, of whatever kind or type is to be considered as in any way limiting other parties' responsibility for damages resulting from their activities in the execution of the Project. City agrees to include, or cause to be included, in the Project's construction contract, such requirements for insurance coverage and performance bonds by the Project's construction contractor as City deems adequate to indemnify City, Consultant, and other concerned parties against claims for damages and to insure compliance of work performance and materials with Project requirements.

ARTICLE 9. PAYMENT.

- 9.1 City will pay Consultant for services and expenses in accordance with the Fee Schedule proposal submitted for the Project as part of the Scope of Services. Consultant's invoices

will be presented at the completion of the work or monthly and will be payable upon receipt. Payment is due upon presentation of invoice and is past due thirty (30) days from invoice date. City shall give prompt written notice of any disputed amount and shall pay the remaining amount.

- 9.2 Consultant shall be paid in full for all services under this Agreement, including City authorized overruns of the Project budget or unforeseen need for Consultant's services exceeding the original Scope of Services.

ARTICLE 10. MISCELLANEOUS PROVISIONS

- 10.1 **EQUAL EMPLOYMENT OPPORTUNITY.** In connection with this Agreement and the Project, City and Consultant shall not discriminate against any employee or applicant for employment because of race, color, sex, national origin, disability or marital status. City and Consultant will take affirmative action to ensure that the contractor used for the Project does not discriminate against any employee and employees are treated during employment without regard to their race, age, religion, color, gender, national origin, disability or marital status. Such action shall include, but not be limited to, the following: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination, rates of pay or other forms of compensation; and selection for training, including apprenticeship.
- 10.1.1 Consultant shall insert the foregoing provision in all contracts relating to this Project.
- 10.2 **TITLE VI – CIVIL RIGHTS ACT OF 1964.** City and Consultant shall comply with all the requirements imposed by Title VI of the Civil Rights Act of 1964 (42 U.S.C. 2000d), 49 C.F.R., Part 21, and related statutes and regulations.
- 10.2.1 Consultant shall insert the foregoing provision in all contracts relating to this Project.
- 10.3 **NO THIRD PARTY RIGHTS CREATED.** City and Consultant each binds itself and its successors, executors, administrators, permitted assigns, legal representatives and, in the case of a partnership, its partners, to the other party to this Agreement and to their successors, executors, administrators, permitted assigns, legal representatives and partners of such other party in respect to all provisions of this Agreement. The Services provided for in this Agreement are for the sole use and benefit of City and Consultant. Nothing in this Agreement shall be construed to give any rights or benefits to anyone other than City and Consultant.
- 10.4 **WARRANTIES/LIMITATION OF LIABILITY/WAIVER.** City reserves all rights afforded to local governments under law for all general and implied warranties. City does not waive any rights it may have to all remedies provided by law and therefore any attempt by Consultant to limit its liability shall be void and unenforceable.

ARTICLE 11. EXTENT OF AGREEMENT:

- 11.1 **APPLICABLE LAW/CHOICE OF FORUM AND VENUE.** This Agreement is made under and will be construed in accordance with the laws of the State of Tennessee without giving effect to that state's choice of law rules. The parties' choice of forum and venue shall be exclusively in the courts of Williamson County, Tennessee. Any provision of this Agreement held to violate a law or regulation shall be deemed void, and all remaining provisions shall continue in force.

- 11.2 ENTIRE AGREEMENT. This Agreement, including these terms and conditions, represent the entire Agreement between City and Consultant for this Project and supersedes all prior negotiations, representations or agreements, written or oral. This Agreement may be amended only by written instrument signed by City and Consultant.

ARTICLE 12. DISPUTE RESOLUTION, BREACH.

- 12.1 If a dispute should arise relating to the performance of or payment for the Services under this Agreement, the aggrieved party shall notify the other party of the dispute within a reasonable time after such dispute arises. During the pendency of any dispute, the parties shall continue diligently to fulfill their respective obligations hereunder. No arbitration or mediation shall be required as a condition precedent to filing any legal claim arising out of or relating to this Agreement. No arbitration or mediation shall be binding.
- 12.2 BREACH. Upon deliberate breach of the Agreement by either party, the non-breaching party shall be entitled to terminate the Agreement with notice, with all of the remedies it would have in the event of termination, and may also have such other remedies as it may be entitled to in law or in equity.

ARTICLE 13. SURVIVAL.

The provisions contained in this Professional Services Agreement shall survive the completion of or any termination of the Agreement, contract or other document to which it may accompany or incorporate by reference or which subsequently may be modified, unless expressly excepted from this Article upon consent of both parties.

CONSULTANT:

CITY OF FRANKLIN, TENNESSEE:

(Signature)

(Signature)

Name: _____

Name: Dr. Ken Moore

Title: _____

Title: Mayor

Date: _____

Date: _____

Approved as to Form:

Maricruz R. Fincher, Staff Attorney

COF CONTRACT NO. 2020-0189

**ATTACHMENT A
SCOPE OF SERVICES**

- I. **ECS Southeast, LLP** ("Consultant") is pleased to provide this proposal for on-call engineering services to the **City of Franklin, Tennessee** ("City"). It is anticipated that this contract will be in effect for a three (3) year period. Individual Work Orders will be assigned on an as needed basis.
- II. **WORK ORDER REQUEST PROCEDURE**
 - A. Each task to be performed shall be set forth in a written request produced by the City Engineer, or his designee, with a description of the work to be performed, and the time desired for completion. All tasks shall be carried out in conformity with all provisions of this Agreement.
 - B. Following receipt of the request, the Consultant shall prepare a "Task Proposal" that includes the following components:
 - a. A written description of the requested task including: all components and subtasks, and including any clarifications of the descriptions provided in the request;
 - b. The hourly or lump sum costs to perform the task. Hourly compensation shall be at the rates provided below, with allowances for a new rate schedule to become effective on the contract anniversary date, based upon the contract execution date, for each succeeding year. Updated fee schedules shall be reviewed and approved by the City Engineer prior to invoices;
 - c. An explanation of how the cost was determined; and
 - d. A schedule for completion of the task, including a completion date.
 - C. Individual work orders shall be issued by the City Engineer and approved by the City Administrator. Work Orders will include the Task Proposal as an attachment, in writing prior to any work being completed.
 - D. Consultant shall complete the task and provide all deliverables to the City Engineer, or his designee, as agreed upon in the Task Proposal.
 - E. During performance of the services, Consultant will keep the City apprised of the status of performance by delivering status reports as requested by the City.
- III. **MUNICIPAL SERVICES FEE SCHEDULE**

(See following page)

**2020 ECS SOUTHEAST, LLP
COF CONTRACT NO. 2020-0189
ATTACHMENT A**

ON-CALL CONSTRUCTION ENGINEERING & INSPECTION (CEI) AND TESTING SERVICES FEE SCHEDULE

Principal Engineer	\$165.00/hour
Project Manager	\$100.00/hour
Field Engineer (**)	\$65.00/hour
Senior Field Technician (**)	\$50.00/hour
Field Technician (**)	\$45.00/hour
Welding Technician, Shop or Field Inspection (**): (Bridge, Railing or Other Structural Work)	
Senior Level AWS CWI (NDE: UT, MT, PT, RI)	\$85.00/hour
AWS CWI (VT with no NDE)	\$75.00/hour
Administrative Support.....	\$45.00/hour

Notes:

- Hourly rates include compensation, benefits, overhead, and fee.
- Hourly rates include use of a company vehicle and incidental mileage for field construction staff classifications.
- Hourly rates are subject to change on a calendar year basis.
- Direct Reimbursable Expenses
 - Direct reimbursables, if required, will be negotiated at cost on a lump sum basis as needed per the individual work orders.
 - Subconsultants for specialty services will be included as direct expenses, at cost.

(**) = Overtime = Standard Rate x 1.50 for time over 40 per week and outside normal business hours of 6:00am to 6:00pm, holiday, Saturday, or Sunday.

EQUIPMENT and LABORATORY

Core machine	\$125.00/day
Daily Equipment Charge	\$15.00/day
Nuclear Density Gauge Charge	\$25.00/day
Ultrasonic Equipment	\$100.00/day
Floor Flatness/Levelness Meter	\$50.00/day
Windsor Probe Gun	\$100.00/day
Windsor Probe Shots	\$15.00/shot
Standard Proctor (ASTM D-698)	\$135.00 each
Modified Proctor (ASTM D-1557) 4 inch mold.....	\$145.00 each
One-Point Proctor (AASHTO T272)	\$45.00 each
Dry Sieve Analysis of Granular Material	\$60.00 each
Hand Auger Borings	\$8.00/per foot
Atterberg Limits Testing	\$65.00 each
California Bearing Ratio (CBR)	\$400.00 each
Marshall Stability and Flow Tests of Asphalt	\$110.00 each
Extraction, Bitumen Content, and Gradation of Asphalt Sample.....	\$70.00 each
Maximum Density of Asphalt Pavement Sample (Marshall Density)	\$250.00 each
Maximum Specific Gravity of Asphalt Mix (ASTM D 2041 Rice Method)	\$250.00 each
Determination of Density of Field Asphalt Sample	\$50.00 each
Determination of Asphalt Mix Design Based on Aggregate Sieve Analysis	\$125.00 each
Wash No. 200 Sieve	\$30.00 each
Testing of Cylinders, Cubes and Core Specimens:	
Compressive strength of grout cubes.....	\$ 12.00 each
Compressive strength of concrete cylinders including reserves, (ASTM C-39)	\$ 12.00 each
Core Specimen (including sample preparation).....	\$ 25.00/test
Compressive Strength of grout prisms or mortar cubes	\$ 12.00 each

Note: The above charges will be made for tests and equipment operated by ECS Southeast, LLP personnel in addition to personnel charges already listed.





City of Franklin

109 3rd Ave S.
Franklin, TN 37064
(615) 791-3217

File #: 20-0878

DATE: June 26, 2020
TO: Capital Investment Committee
FROM: Paul Holzen, Director of Engineering
Jonathan Marston, Asst. Director of Engineering

SUBJECT:

Consideration Of **Draft** COF Contract No. 2020-0190, A Professional Services Agreement With HDR Construction Control Company For On-Call Construction Engineering & Inspection And Testing Services.

PURPOSE:

The purpose of this memorandum is to provide information to the Franklin Board of Mayor and Aldermen (BOMA) concerning COF Contract No. 2020-0190 with HDR Construction Control Company for on-call construction engineering & inspection (CEI) and testing services.

BACKGROUND/STAFF COMMENTS:

In 2019, the City of Franklin hired its first inspector dedicated to the inspection of City capital projects. As multiple projects are under construction simultaneously, there will be a need to supplement this single staff member with additional help. Also, the City is not equipped with the facilities or equipment to perform laboratory tests on construction materials. This on-call contract would allow the City Engineer, with approval by the City Administrator, to issue individual work orders for assistance with inspection or for materials testing.

FINANCIAL IMPACT:

Funding will be allocated as needed for individual work orders. In most cases, staff anticipates utilizing already established capital project funding for specific capital projects.

RECOMMENDATION:

Staff recommends the approval of COF Contract No. 2020-0190 with HDR Construction Control Company.

**CITY OF FRANKLIN, TENNESSEE
PROFESSIONAL SERVICES AGREEMENT
COF Contract No. 2020-0190**

THIS PROFESSIONAL SERVICES AGREEMENT ("Agreement") is by and between the City of Franklin, Tennessee, hereinafter referenced as City, and **HDR CONSTRUCTION CONTROL CORPORATION** hereinafter referenced as Consultant, who mutually agree as follows:

DECLARATIONS. City desires to retain Consultant to provide engineering, related technical, and other services in connection with City's project hereinafter referenced as Project. The Project is described as follows:

ON-CALL CONSTRUCTION ENGINEERING & INSPECTION (CEI) AND TESTING SERVICES

1. SCOPE OF SERVICES. Consultant shall provide construction engineering & inspection (CEI) services, testing, and related technical services for the Project in accordance with the Scope of Services ("Services") as found in Attachment A which shall be considered as an integral part hereof.
2. Consultant shall submit as a part of Attachment A an individual Fee Schedule and a Completion Schedule for the Project based on the detailed Scope of Services.
3. In event of a conflict between this Agreement and the attached document(s), this Agreement shall supersede conflicting terms and conditions.
4. Consultant shall be paid on a monthly basis for work performed based on the Fee Schedule as contained in Attachment A. Individual Work Orders shall be issued by the City Engineer, approved by the City Administrator, and shall be subject to all terms of this Agreement.
5. This Agreement shall terminate no later than three (3) years from the date of execution.

The Board of Mayor and Aldermen Approved this Agreement on the _____ Day of _____ 202__.

TERMS AND CONDITIONS FOR PROFESSIONAL SERVICES

ARTICLE 1. SERVICES. Consultant will:

- 1.1 Act for City in a professional manner, using that degree of care and skill ordinarily exercised by and consistent with standards of competent consultants using the standards in the industry:
- 1.2 Consider all reports to be confidential and distribute copies of the same only to those persons specifically designated by the City.
- 1.3 Perform all services under the general direction of a senior professional employee, licensed and/or registered in the State of Tennessee, when appropriate.
- 1.4 Designate, in writing, the sole Project representative to coordinate with City the Services to be provided, including all contact information.
- 1.5 Unless provided for in the Project Scope of Services (Attachment A), Consultant shall perform all Services with his own forces (employees). Should sub-consultants be proposed to be used in the Project, a listing of said sub-consultants with Services to be performed shall be provided. After approval of this Agreement, no substitute for sub-consultants shall be allowed unless approved by City.
- 1.6 Retain pertinent records relating to the services performed for a period of seven (7) years following the completion of the work; during this period the records shall be available for review by City at all reasonable times.

ARTICLE 2. CITY'S RESPONSIBILITIES. City, or its authorized representative, will:

- 2.1 Provide Consultant with all information regarding the Project, which is available to, or reasonably obtainable by, the City.
- 2.2 Furnish right-of-entry onto the Project site for Consultant's necessary field studies and surveys. Consultant will endeavor to restore the site to its original condition and shall remain solely liable for all damages, costs and expenses, including reasonable attorneys' fees, for failure to make such restoration.
- 2.3 Designate, in writing, the sole Project representative to coordinate with and direct the Consultant, including all contact information.
- 2.4 Guarantee to Consultant that it has the legal capacity to enter into this contract and that sufficient monies are available to fund Consultant's compensation.

ARTICLE 3. GENERAL CONDITIONS.

- 3.1 Consultant, by the performance of services covered hereunder, does not in any way assume, abridge or abrogate any of those duties, responsibilities or authorities customarily vested in other professionals or agencies participating in the Project.
- 3.2 Consultant shall be responsible for the acts or omissions of any party involved in concurrent or subsequent phases of the Project acting upon written instruction issued by the Consultant.
- 3.3 Neither City nor Consultant may assign or transfer its duties or interest in this Agreement without written consent of the other party.
- 3.4 **ALLOCATION OF RISK AND LIABILITY; GENERAL.** Considering the potential liabilities that may exist during the performance of the services of this Agreement, the relative benefits and risks of the Project, and the Consultant's fee for the services rendered, and in consideration of the promises contained in this Agreement, the City and the Consultant agree to allocate and limit such liabilities in accordance with this Article.

- 3.5 INDEMNIFICATION. Consultant agrees to indemnify and hold City harmless from and against legal liability for all judgments, losses, damages, and expenses to the extent such judgments, losses, damages, or expenses are caused by Consultant's negligent act, error or omission in the performance of the services of this Agreement. In the event judgments, losses, damages, or expenses are caused by the joint or concurrent negligence of Consultant and City, they shall be borne by each party in proportion to its own negligence.
- 3.5.1 SURVIVAL. The terms and conditions of this paragraph shall survive completion of this services agreement.
- 3.6 LIMITATIONS OF RESPONSIBILITY. Consultant shall not be responsible for (a) construction means, methods, techniques, sequences, procedures, or safety precautions and programs in connection with the Project unless specifically undertaken in Attachment A, Scope of Services ; (b) the failure of any contractor, subcontractor, Consultant, or other Project participant, not under contract to Consultant, to fulfill contractual responsibilities to City or to comply with federal, state, or local laws, regulations, and codes; or (c) procuring permits, certificates, and licenses required for any construction unless such procurement responsibilities are specifically assigned to Consultant in Attachment A, Scope of Services.

ARTICLE 4. TERMINATION BY THE CITY. The City may terminate this Agreement in accordance with the following terms and conditions:

- 4.1 Termination for Convenience. The City may, when in the interests of the City, terminate performance under this Agreement with the Consultant, in whole or in part, for the convenience of the City. The City shall give written notice of such termination to the Consultant specifying when termination becomes effective. The Consultant shall incur no further obligations in connection with the work so terminated, other than warranties and guarantees for completed work and installed equipment, and the Consultant shall stop work when such termination becomes effective. The Consultant shall also terminate outstanding orders and subcontracts for the affected work. The Consultant shall settle the liabilities and claims arising out of the termination of subcontracts and orders. The City may direct the Consultant to assign the Consultant's right, title and interest under termination orders or subcontracts to the City or its designee. The Consultant shall transfer title and deliver to the City such completed or partially completed work and materials, equipment, parts, fixtures, information and Contract rights as the Consultant has in its possession or control. When terminated for convenience, the Consultant shall be compensated as follows:
- (1) The Consultant shall submit a termination claim to the City specifying the amounts due because of the termination for convenience together with costs, pricing or other data required by the City. If the Consultant fails to file a termination claim within one (1) year from the effective date of termination, the City shall pay the Consultant the amount the City deems the Consultant is due.
 - (2) The City and the Consultant may agree to the compensation, if any, due to the Consultant hereunder.
 - (3) Absent agreement to the amount due to the Consultant, the City shall pay the Consultant the following amounts:
 - (a) Contract costs for labor, materials, equipment and other services accepted under this Agreement;

- (b) Reasonable costs incurred in preparing to perform and in performing the terminated portion of the work, and in terminating the Consultant's performance, plus a fair and reasonable allowance for direct job site overhead and earned profit thereon (such profit shall not include anticipated profit or consequential damages); provided however, that if it reasonably appears that the Consultant would have not profited or would have sustained a loss if the entire Agreement would have been completed, no profit shall be allowed or included and the amount of compensation shall be reduced to reflect the anticipated rate of loss, if any;

The total sum to be paid the Consultant under this Section shall not exceed the total Agreement Price, as properly adjusted, reduced by the amount of payments otherwise made, and shall in no event include duplication of payment.

- 4.2 Termination for Cause. If the Consultant does not perform the work, or any part thereof, in a timely manner, supply adequate labor, supervisory personnel or proper equipment or materials, or if it fails to timely discharge its obligations for labor, equipment and materials, or proceeds to disobey applicable law, or otherwise commits a violation of a material provision of this Agreement, then the City, in addition to any other rights it may have against the Consultant or others, may terminate the performance of the Consultant, in whole or in part at the City's sole option, and assume possession of the Project Plans and materials and may complete the work.

In such case, the Consultant shall not be paid further until the work is complete. After Completion has been achieved, if any portion of the Contract Price, as it may be modified hereunder, remains after the cost to the City of completing the work, including all costs and expenses of every nature incurred, has been deducted by the City, such remainder shall belong to the Consultant. Otherwise, the Consultant shall pay and make whole the City for such cost. This obligation for payment shall survive the termination of the Agreement.

In the event the employment of the Consultant is terminated by the City for cause pursuant to this Section and it is subsequently determined by a Court of competent jurisdiction that such termination was without cause, such termination shall thereupon be deemed a Termination for Convenience under this Section and the provisions of Section 4.1 shall apply.

- 4.3 Termination for Non-Appropriation. The City may also terminate this Agreement, in whole or in part, for non-appropriation of sufficient funds to complete or partially complete the Project, regardless of the source of such funds, and such termination shall be on the terms of Section 4.1.
- 4.4 The City's rights under this Section shall be in addition to those contained elsewhere herein or provided by law.

ARTICLE 5. SCOPE OF SERVICES. Consultant shall provide the Services as described in Attachment A, Scope of Services.

5.1 By mutual agreement, this Agreement and scope can be amended by the parties. The scope and fee for any additional tasks or services under such amendment shall be mutually negotiated and agreed to in writing prior to beginning such additional tasks or services.

5.2 ENVIRONMENTAL RESPONSIBILITY.

Where drilling/sampling services are involved, the samples obtained from the Project site are the property of the City. Should any of these samples be recognized by the Consultant to be contaminated, the City shall remove them from the Consultant's custody and transport them to a disposal site, all in accordance with applicable government statutes, ordinances, and regulations. For all other samples, the Consultant shall retain them for a sixty (60)-day period following the submission of the drilling/sampling report unless the City directs otherwise; thereafter, the Consultant shall discard the samples in accordance with all federal, state and local laws.

ARTICLE 6. SCHEDULE.

6.1 TIME OF THE ESSENCE. The parties agree that time is of the essence with respect to the parties' performance of all provisions of the Agreement.

6.2 Before executing this Agreement, the Consultant shall have prepared and submitted for approval to the City a Completion Schedule for the Project with milestones for the various stages (tasks) of the Services as outlined in the Scope of Services. The Consultant shall submit and obtain the City's approval for any proposed changes to the logic, durations, sequences, or timing of tasks as approved in the Completion Schedule.

6.3 FORCE MAJEURE. Neither party will be liable to the other for any delay or failure to perform any of the services or obligations set forth in this Agreement due to causes beyond its reasonable control, and performance times will be considered extended for a period of time equivalent to the time lost because of such delay plus a reasonable period of time to allow the parties to recommence performance of their respective obligations hereunder. Should a circumstance of force majeure last more than ninety (90) days, either party may by written notice to the other terminate this Agreement. The term "force majeure" as used herein shall mean the following: acts of God; strikes, lockouts or other industrial disturbances; acts of public enemies; orders or restraints of any kind of the government of the United States or of the State or any of their departments, agencies or officials, or any civil or military authority; insurrections, riots, landslides, earthquakes, fires, storms, tornadoes, droughts, floods, explosions, breakage or accident to machinery, transmission pipes or canals; or any other cause or event not reasonably within the control of either party.

6.4 Should City request changes in the scope, extent, or character of the Project, the fee and the time of performance of Consultant's Services as indicated in Attachment A shall be adjusted equitably.

ARTICLE 7. USE OF DOCUMENTS, DATA.

- 7.1 All Documents, including, but not limited to, reports, drawings, specifications, and computer software prepared by Consultant pursuant to this Agreement are instruments of service in respect to the Project. The City shall retain an ownership and property interest therein whether or not the Project is completed.
- 7.1.1 USE OF DATA SYSTEMS: The City maintains all rights to data systems and data (including derivative or hidden data such as metadata) created and used by the Consultant through information supplied to the Consultant by the City.
- 7.1.2 DISCLOSURE OF DOCUMENTS/DATA. City may be required to disclose documents or data under state or federal law. City shall notify Consultant if a request for data or documents has been made and shall give Consultant a reasonable opportunity under the circumstances to respond to the request by redacting proprietary or other confidential information. Consultant waives any right to confidentiality of any document, e-mail or file it fails to clearly mark on each page as confidential or proprietary. In exchange, Consultant agrees to indemnify, defend, and hold harmless City for any claims by third parties relating thereto or arising out of (i) the City's failure to disclose such documents or information required to be disclosed by law, or (ii) the City's release of documents as a result of City's reliance upon Consultant representation that materials supplied by Consultant (in full or redacted form) do not contain trade secrets or proprietary information, provided that the City impleads Consultant and Consultant assumes control over that claim.
- 7.2 7.2 By execution of this Agreement, Consultant and his sub-consultant(s) grant the City a royalty-free, perpetual, irrevocable, and assignable license to use any and all intellectual property interest Consultant or his sub-consultant(s) possess to any drawings, details, specifications, documents, and other information created before each of their first involvement with the Project and subsequently incorporated into the Project's documents. City-furnished data that may be relied upon by Consultant is limited to the printed copies that are delivered to the Consultant pursuant to Article 2 of this Agreement. Any copyrighted electronic files furnished by City shall be used by Consultant only for the Project as described herein. City's posting or publication of such documents created by Consultant for City shall constitute fair use and shall not constitute an infringement of Consultant's copyright, if any.
- 7.3 Documents that may be relied upon by City are limited to the printed copies (also known as hard copies) that are signed or sealed by the Consultant. Files in electronic media format of text, data, graphics, or of other types that are furnished by Consultant to City are only for convenience of City, unless the delivery of the Project in electronic media format has been dictated in Attachment A, Scope of Services. Any conclusion or information obtained or derived from electronic files provided for convenience will be at the user's sole risk.
- 7.4 Because data stored in electronic media format can deteriorate or be modified inadvertently or otherwise without authorization of the data's creator, the party receiving electronic files agrees that it will perform acceptance tests or procedures within sixty (60) days, after which the receiving party shall be deemed to have accepted the data thus transferred. Any errors detected within the 60-day acceptance period will be corrected by the party delivering the electronic files. Unless stated otherwise herein, Consultant

shall not be responsible to maintain documents stored in electronic media format after acceptance by City.

- 7.5 When transferring documents in electronic media format, Consultant makes no representations as to long term compatibility, usability, or readability, of documents resulting from the use of software application packages, operating systems, or computer hardware differing from that as required of, and used by, Consultant at the beginning of this Project.
- 7.6 City may make and retain copies of Documents for information and reference in connection with use on the Project by the City, or his authorized representative. Such Documents are not intended or represented to be suitable for reuse by City or others on extensions of the Project or on any other project. Any such reuse or modifications without written verification or adaptation by Consultant, as appropriate for the specific purpose intended, will be at City's sole risk and without liability or legal exposure to the Consultant or to Consultant's sub-consultants.
- 7.7 If there is a discrepancy between the electronic files and the hard copies, the hard copies govern.
- 7.8 Any verification or adaptation of the Documents for extensions of the Project or for any other project will entitle Consultant to further compensation at rates to be agreed upon by City and Consultant.

ARTICLE 8. INSURANCE.

- 8.1 During the performance of the Services under this Agreement, Consultant shall maintain the following minimum insurance:
 - a) General Liability Insurance with a combined single limit of \$1,000,000 per occurrence and \$2,000,000 annual aggregate.
 - b) Automobile Liability Insurance with a combined single limit of \$1,000,000 for each person and \$1,000,000 for each accident.
 - c) Workers' Compensation Insurance Coverage A in accordance with statutory requirements and Coverage B, Employer's Liability Insurance, with a limit of \$500,000 for each occurrence.
 - d) Professional Liability Insurance with a limit of \$1,000,000 annual aggregate.
- 8.2 Consultant shall add the City an additional insured on all policies unless otherwise prohibited.
- 8.3 Consultant shall, upon execution of this Agreement, furnish City certificates of insurance, which shall include a provision that such insurance shall not be canceled without at least thirty (30) days' written notice to City.
- 8.4 No insurance, of whatever kind or type is to be considered as in any way limiting other parties' responsibility for damages resulting from their activities in the execution of the Project. City agrees to include, or cause to be included, in the Project's construction contract, such requirements for insurance coverage and performance bonds by the Project's construction contractor as City deems adequate to indemnify City, Consultant, and other concerned parties against claims for damages and to insure compliance of work performance and materials with Project requirements.

ARTICLE 9. PAYMENT.

- 9.1 City will pay Consultant for services and expenses in accordance with the Fee Schedule proposal submitted for the Project as part of the Scope of Services. Consultant's invoices

will be presented at the completion of the work or monthly and will be payable upon receipt. Payment is due upon presentation of invoice and is past due thirty (30) days from invoice date. City shall give prompt written notice of any disputed amount and shall pay the remaining amount.

- 9.2 Consultant shall be paid in full for all services under this Agreement, including City authorized overruns of the Project budget or unforeseen need for Consultant's services exceeding the original Scope of Services.

ARTICLE 10. MISCELLANEOUS PROVISIONS

- 10.1 **EQUAL EMPLOYMENT OPPORTUNITY.** In connection with this Agreement and the Project, City and Consultant shall not discriminate against any employee or applicant for employment because of race, color, sex, national origin, disability or marital status. City and Consultant will take affirmative action to ensure that the contractor used for the Project does not discriminate against any employee and employees are treated during employment without regard to their race, age, religion, color, gender, national origin, disability or marital status. Such action shall include, but not be limited to, the following: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination, rates of pay or other forms of compensation; and selection for training, including apprenticeship.
- 10.1.1 Consultant shall insert the foregoing provision in all contracts relating to this Project.
- 10.2 **TITLE VI – CIVIL RIGHTS ACT OF 1964.** City and Consultant shall comply with all the requirements imposed by Title VI of the Civil Rights Act of 1964 (42 U.S.C. 2000d), 49 C.F.R., Part 21, and related statutes and regulations.
- 10.2.1 Consultant shall insert the foregoing provision in all contracts relating to this Project.
- 10.3 **NO THIRD PARTY RIGHTS CREATED.** City and Consultant each binds itself and its successors, executors, administrators, permitted assigns, legal representatives and, in the case of a partnership, its partners, to the other party to this Agreement and to their successors, executors, administrators, permitted assigns, legal representatives and partners of such other party in respect to all provisions of this Agreement. The Services provided for in this Agreement are for the sole use and benefit of City and Consultant. Nothing in this Agreement shall be construed to give any rights or benefits to anyone other than City and Consultant.
- 10.4 **WARRANTIES/LIMITATION OF LIABILITY/WAIVER.** City reserves all rights afforded to local governments under law for all general and implied warranties. City does not waive any rights it may have to all remedies provided by law and therefore any attempt by Consultant to limit its liability shall be void and unenforceable.

ARTICLE 11. EXTENT OF AGREEMENT:

- 11.1 **APPLICABLE LAW/CHOICE OF FORUM AND VENUE.** This Agreement is made under and will be construed in accordance with the laws of the State of Tennessee without giving effect to that state's choice of law rules. The parties' choice of forum and venue shall be exclusively in the courts of Williamson County, Tennessee. Any provision of this Agreement held to violate a law or regulation shall be deemed void, and all remaining provisions shall continue in force.

- 11.2 ENTIRE AGREEMENT. This Agreement, including these terms and conditions, represent the entire Agreement between City and Consultant for this Project and supersedes all prior negotiations, representations or agreements, written or oral. This Agreement may be amended only by written instrument signed by City and Consultant.

ARTICLE 12. DISPUTE RESOLUTION, BREACH.

- 12.1 If a dispute should arise relating to the performance of or payment for the Services under this Agreement, the aggrieved party shall notify the other party of the dispute within a reasonable time after such dispute arises. During the pendency of any dispute, the parties shall continue diligently to fulfill their respective obligations hereunder. No arbitration or mediation shall be required as a condition precedent to filing any legal claim arising out of or relating to this Agreement. No arbitration or mediation shall be binding.
- 12.2 BREACH. Upon deliberate breach of the Agreement by either party, the non-breaching party shall be entitled to terminate the Agreement with notice, with all of the remedies it would have in the event of termination, and may also have such other remedies as it may be entitled to in law or in equity.

ARTICLE 13. SURVIVAL.

The provisions contained in this Professional Services Agreement shall survive the completion of or any termination of the Agreement, contract or other document to which it may accompany or incorporate by reference or which subsequently may be modified, unless expressly excepted from this Article upon consent of both parties.

CONSULTANT:

CITY OF FRANKLIN, TENNESSEE:

(Signature)

(Signature)

Name: _____

Name: Dr. Ken Moore

Title: _____

Title: Mayor

Date: _____

Date: _____

Approved as to Form:

Maricruz R. Fincher, Staff Attorney

COF CONTRACT NO. 2020-0190
ATTACHMENT A
SCOPE OF SERVICES

- I. **HDR Construction Control Corporation** ("Consultant") is pleased to provide this proposal for on-call engineering services to the **City of Franklin, Tennessee** ("City"). It is anticipated that this contract will be in effect for a three (3) year period. Individual Work Orders will be assigned on an as-needed basis.
- II. **WORK ORDER REQUEST PROCEDURE**
 - A. Each task to be performed shall be set forth in a written request produced by the City Engineer, or his designee, with a description of the work to be performed, and the time desired for completion. All tasks shall be carried out in conformity with all provisions of this Agreement.
 - B. Following receipt of the request, the Consultant shall prepare a "Task Proposal" that includes the following components:
 - a. A written description of the requested task including: all components and subtasks, and including any clarifications of the descriptions provided in the request;
 - b. The hourly or lump sum costs to perform the task. Hourly compensation shall be at the rates provided below, with allowances for a new rate schedule to become effective on the contract anniversary date, based upon the contract execution date, for each succeeding year. Updated fee schedules shall be reviewed and approved by the City Engineer prior to invoices;
 - c. An explanation of how the cost was determined; and
 - d. A schedule for completion of the task, including a completion date.
 - C. Individual work orders shall be issued by the City Engineer and approved by the City Administrator. Work Orders will include the Task Proposal as an attachment, in writing prior to any work being completed.
 - D. Consultant shall complete the task and provide all deliverables to the City Engineer, or his designee, as agreed upon in the Task Proposal.
 - E. During performance of the services, Consultant will keep the City apprised of the status of performance by delivering status reports as requested by the City.
- III. **MUNICIPAL SERVICES FEE SCHEDULE**

(See following page)



**COF CONTRACT NO. 2020-0190
ATTACHMENT A
MUNICIPAL SERVICES FEE SCHEDULE**

2020 Hourly Rate Table

Classification	Hourly Rate
Principal Project Manager	\$ 165.00
Resident Construction Engineer	\$ 155.00
Senior Construction Inspector	\$ 130.00
Construction Inspector	\$ 85.00
Project Accountant	\$ 90.00
Project Administrative	\$ 70.00

- Hourly rates include compensation, benefits, overhead, and fee.
- Hourly rates include use of a company vehicle and incidental mileage for the following field construction staff classifications: Resident Construction Engineer, Senior Construction Inspector, and Construction Inspector
- Hourly rates include field testing services that are performed by inspectors on project sites including air content, slump, and temperature for concrete; and density testing on hot-mix asphalt, aggregate base, and embankments.
- Hourly rates include testing services that can be performed by inspectors at a local supplier's facilities including asphalt plants and rock quarries.
- Hourly rates do not include laboratory testing services for compression testing of concrete cylinders, soil analysis, soil proctors, and other
- Hourly rates to increase on a calendar year basis at an annual rate of 4%.

Direct Reimbursable Expenses

- Direct reimbursables, if required, will be negotiated at cost on a lump sum basis, as needed, per the individual work orders.
- Subconsultants for specialty services will be included as direct expenses, at cost.



File #: 20-0942

DATE: July 9, 2020
TO: Capital Investment Committee
FROM: Paul Holzen, Director of Engineering
Jonathan Marston, Asst. Director of Engineering
Adam Moser, Traffic Engineer

SUBJECT:

Consideration Of **Draft** Amendment No. 2 To COF Contract No. 2017-0171, A Professional Services Agreement With Volkert, Inc. For The Design Of the Franklin ITS Extension Project At A Lump Sum Cost Increase Of \$4,750.00.

PURPOSE:

The purpose of this memorandum is to provide information to the Franklin Board of Mayor and Aldermen (BOMA) concerning Amendment No. 2 to the Professional Services Agreement (PSA) with Volkert, Inc. (Volkert) for the design of the Franklin ITS Extension Project.

BACKGROUND/STAFF COMMENTS:

On July 11, 2017 the BOMA approved a PSA (COF Contract No. 2017-0171) with Volkert to provide the final design of the Franklin ITS Extension project, which is funded primarily through a federal grant. This project includes the installation of new closed-circuit television (CCTV) cameras to monitor traffic and additional build-out of the City's fiber optic communications network.

On March 12, 2019, the BOMA approved Amendment No. 1 to the PSA, which allowed for the additional design of an extension of the City's fiber optic communications network between Murfreesboro Road and Goose Creek Bypass. Since the approval of this amendment, the City realized the need to accelerate the installation of this fiber optic network extension to serve Fire Station No. 7, which is scheduled for completion later this year. Therefore, City crews, along with assistance from a contractor, completed the installation of this necessary network extension.

The elimination of the fiber optic network extension from the ITS Extension Project, allows for that grant-funding to be redirected to other ITS needs. Amendment No. 2 will allow for design of a CCTV installation at the I-65 and Goose Creek Bypass interchange, which will allow staff to monitor the flow of traffic on both Goose Creek Bypass and I-65. The cost to perform this additional design is \$4,750.00.

FINANCIAL IMPACT:

The total cost of this amendment is \$4,750.00. Unfortunately, the grant allocation for the design phase of this project has been expended. Therefore, staff proposes to fund this additional design with a portion of the Traffic Operations Center (TOC) annual operating budget funding for

engineering services, which corresponds to a General Ledger (GL) code of 110-82540-41610.

RECOMMENDATION:

Staff recommends approval of Amendment No. 2 to COF Contract No. 2017-0171 with Volkert, Inc. in the lump sum amount of \$4,750.00.

**AMENDMENT NO. 2 TO
PROFESSIONAL SERVICES AGREEMENT
FOR FINAL DESIGN OF FRANKLIN ITS EXTENSION PROJECT
COF Contract No. 2017-0171**

THIS AMENDMENT is made and entered into on this the ____ day of _____, 2020, by and between the **City of Franklin, Tennessee** ("City") and **Volkert, Inc.** ("Consultant").

WITNESSETH:

WHEREAS, the City and Consultant entered into a Professional Services Agreement ("Agreement"), dated July 11, 2017, for the Final Design of Franklin ITS Extension Project ("Project"); and

WHEREAS, said Agreement stipulated that Consultant would be paid a not-to-exceed fee of Seventy-One Thousand Five Hundred and 00/100 Dollars (\$71,500.00), as detailed in the Scope of Service and Fee Schedule; and

WHEREAS, on March 12, 2019, the City of Franklin, Tennessee Board of Mayor and Aldermen ("BOMA") approved Amendment No. 1 to the Agreement with the Consultant for additional engineering services in the lump sum amount of Thirteen Thousand Two Hundred Fifty and 00/100 Dollars (\$13,250.00); and

WHEREAS, the City and Consultant realize the need for additional work to accommodate a minor design change, which was not included in the Agreement; and

WHEREAS, the Consultant has provided a Proposal ("Attachment A"), dated February 3, 2020, for an increase in engineering services at the lump sum amount of **Four Thousand Seven Hundred Fifty and 00/100 (\$4,750.00)**; and

WHEREAS, the City has reviewed the Proposal and desires to enter into an amendment to the Agreement for the Project as proposed.

NOW, THEREFORE, in consideration of these premises and the mutual promises contained herein, it is agreed by and between the parties as follows:

1. The foregoing recitals are incorporated by reference as if fully stated herein.
2. Consultant's Responsibilities and Duties. Consultant agrees to perform the work as stated in Attachment A, which includes the Scope of Services for this Amendment, all of which shall be considered as an integral part hereof.
3. City's Responsibilities and Duties. City shall pay Consultant for the cost of the work as described in Attachment A in a lump sum amount of **Four Thousand Seven Hundred Fifty and 00/100 (\$4,750.00)**.

The City reserves the right to issue any payments jointly to the Consultant and Sub-Consultant when the City receives information that the Consultant has not paid its Sub-Consultant.

4. Waiver. Neither party's failure nor delay to exercise any of its rights or powers under this Amendment will constitute or be deemed a waiver or forfeiture of those rights or powers. For a waiver of a right or power to be effective, it must be in writing signed by the waiving party. An effective waiver of a right or power shall not be construed as either (a) a future or continuing waiver of that same right or power, or (b) the waiver of any other right or power.

5. Severability. If any term or provision of the Amendment is held to be illegal or unenforceable, the validity or enforceability of the remainder of the Amendment will not be affected.

6. Precedence. In the event of conflict between this Amendment and the provisions of the previous Agreement(s), or any other contract, agreement or other document to which this Amendment may accompany or incorporate by reference, the provisions of this Amendment will, to the extent of such conflict (or to the extent the Agreement is silent), take precedence unless such document expressly states that it is amending this Amendment.

7. Entire Agreement. The Amendment between the parties supersedes any prior or contemporaneous communications, representations or agreements between the parties, whether oral or written, regarding the subject matter of the entire Amendment. The terms and conditions of this Amendment may not be changed except by an amendment expressly referencing this Amendment by section number and signed by an authorized representative of each party.

8. Additions/Modifications. If seeking any addition or modification to the Amendment, the parties agree to reference the specific paragraph number sought to be changed on any future document or purchase order issued in furtherance of the Amendment, however, an omission of the reference to same shall not affect its applicability. In no event shall either party be bound by any terms contained in any purchase order, acknowledgement, or other writings unless: (a) such purchase order, acknowledgement, or other writings specifically refer to the Amendment or to the specific clause they are intended to modify; (b) clearly indicate the intention of both parties to override and modify the Amendment; and (c) such purchase order, acknowledgement, or other writings are signed, with specific material clauses separately initialed, by authorized representatives of both parties.

9. Breach. Upon deliberate breach of the Amendment by either party, the non-breaching party shall be entitled to terminate the Amendment without notice, with all

of the remedies it would have in the event of termination, and may also have such other remedies as it may be entitled to in law or in equity.

10. Survival. This Amendment shall survive the completion of or any termination of the original contract, revised contract, or agreement or other document to which it may accompany or incorporate by reference.

All other provisions of the Agreement, dated July 11, 2017, and Amendment No. 1, dated March 12, 2019, are unchanged and remain in full force and effect.

IN WITNESS WHEREOF, the parties have executed this Amendment.

The CITY OF FRANKLIN, TENNESSEE

VOLKERT, INC.

By: _____
Dr. Ken Moore
Mayor
Date: _____

By: _____
Print: _____
Title: _____
Date: _____

Attest:

Eric S. Stuckey
City Administrator
Date: _____

Approved as to form:

Maricruz R. Fincher, Staff Attorney



February 3, 2020

Jonathan Marston, PE
Assistant Director of Engineering
City of Franklin
109 3rd Avenue South
P.O. Box 305
Franklin, TN 37065-0305

**Re: Franklin ITS Extension – Revised Plans
Supplement Request**

Dear Jonathan:

Volkert, Inc. appreciates the opportunity to submit this supplement request for the additional work required to complete the plans and coordination for additional ITS design which includes plans updates/revisions and inclusion of the CCTV location at I-65 and Peytonsville Road interchange. The following scope of work is to be performed by Volkert and Corradino to develop design plans and provide assistance to the City of Franklin. The detailed Scope of Services are as follows:

Project Management & Meetings

Project management is a continuous task that will be performed for the duration of this supplemental contract. Volkert will coordinate with the City regarding this extension and the entire ITS project. Volkert will also assist the City with coordination with TDOT, if necessary. Volkert will also manage, review, and assist Corradino with plan development and document preparation. The consultant team will coordinate final plans/recommendations with TDOT.

The consultant team will attend meetings with the City and/or TDOT. It is anticipated two additional meetings will be required as part of the supplement. Note: the first meeting was held with the City on January 8, 2020.

Design Plan Development

This supplement request is a result of an additional project that was added to the overall design package. This new project includes the design of the CCTV location at I-65 and Peytonsville Road interchange.

All of the project designs will adhere to all applicable City of Franklin, TDOT and FHWA requirements and guidelines. This includes the City's Transportation & Street Technical Standards, TDOT's Local Government Guidelines, TDOT's ITS Project Development Guidelines, and FHWA's System Engineering Guideline.

Survey/Base Mapping

To provide a timely design and minimize design associated cost, the consultant team will use the City's GIS database, aerial imagery and plans provided by the City. The team will supplement the GIS data with general field verified and collected data (NOTE: this will not be an actual field run survey).

Preliminary/Utility/Right-of-Way Plans

This includes locating the CCTV camera and cabinet, identification of routing for electrical service connections; and as necessary the layout of conduit and pull boxes.



302 Innovation Drive, Suite 100
Franklin, Tennessee 37067
615.656.1845
www.volkert.com

Final Construction Documents

Final construction plans include locating the CCTV camera and cabinet, identification of routing for electrical service connections; and as necessary the layout of conduit and pull boxes. Final construction plans will also include standard notes and details, special notes and details, fiber optic splicing and routing details, erosion control plans and details, traffic control plans and details, and estimated quantities. Final construction plans will also address any plan review comments by TDOT.

Once the construction plans are completed, Volkert will submit to the City for review and comment. After receiving the City's comments, the consultant team will revise the plans and submit to TDOT Local Programs for review and approval to move forward to construction.

Project Fee & Schedule

The fee for this supplement will be \$4,750. This is a lump sum fee and will be invoiced on a monthly basis as work is completed.

Volkert, Inc. appreciates the opportunity to submit this scope of services. If you have any questions, please feel free to contact me. We look forward to working with you on this very important and exciting project for the City of Franklin.

If this proposal meets your approval, please sign below and return a copy with a notice to proceed. If you have any questions, please feel free to contact us. We look forward to hearing from you.

Sincerely,

A handwritten signature in blue ink, reading "Dyan C. Damron".

Dyan C. Damron, PE, PTP
Traffic Engineering & Planning Manager
Volkert, Inc.

A handwritten signature in blue ink, reading "Brad Thompson".

Brad Thompson, AICP
Vice President
Volkert, Inc.

Accepted:

By:

Jonathan Marston, PE

Title:

Assistant Director of Engineering

Client Name:

City of Franklin

Date:





City of Franklin

109 3rd Ave S.
Franklin, TN 37064
(615) 791-3217

File #: 20-0938

DATE: July 8, 2020

TO: Capital Investment Committee

FROM: Paul Holzen, Director of Engineering
Jonathan Marston, Asst. Director of Engineering

SUBJECT:

Capital Projects Dashboard & Status Updates For July 2020.

PURPOSE:

The purpose of this memorandum is to provide information to the Franklin Board of Mayor and Aldermen (BOMA) concerning the status of some of the City's transportation, stormwater, and parks capital projects.

BACKGROUND/STAFF COMMENTS:

To access the live dashboard for the City of Franklin Capital Investment Projects, please go to the following City webpage:

<https://maps.franklintn.gov/portal/apps/opstdashboard/index.html#/97488be2a12447f3bdbbc622fbebfa188>

Manually locate the dashboard following the instructions below:

1. Go to the City of Franklin's main website at: <https://www.franklintn.gov/>,
2. Hover your mouse over "Our City",
3. Click on "City Projects",
4. Click on "Capital Projects Dashboard".

FINANCIAL IMPACT:

N/A

RECOMMENDATION:

None.

