

**AMENDMENT NO. 6
TO THE
CONSTRUCTION MANAGEMENT AT RISK SERVICES AGREEMENT
For The
Alta Vista Pump Station Project**

Guaranteed Maximum Price (GMP) Amendment

This amendment (the "GMP Amendment") is made and dated as of _____ 2018, between the City of Keller (the "City" or "Owner") and the construction manager at risk, Felix Construction Company ("CMAR"), Parties to the Construction Management at Risk Services Agreement (the "Agreement").

WHEREAS, on November 21, 2017, the City and the CMAR entered into an Agreement to construct the Alta Vista Pump Station Project ("Project"); and

WHEREAS, the Agreement allows for the CMAR to prepare and submit a GMP Proposal for the Owner's review, negotiation and acceptance; and

WHEREAS, upon acceptance of the GMP Proposal, as may be amended by Owner and CMAR, the GMP Proposal and its basis shall be set forth in a GMP Amendment to this Agreement;

NOW THEREFORE, in consideration of the mutual covenants and agreements contained herein the parties agree as follows:

1. Notice to Proceed on the GMP Amendment will be issued immediately upon full approval and execution and receipt of all required bonds and insurance.
2. The GMP Proposal, as amended after discussions between the Owner and CMAR is attached as Exhibit 1 to this GMP Amendment. The GMP Amount is \$6,474,950 as further described in Exhibit 1.
3. The CMAR agrees that to the best of its knowledge that the Contract Documents at the time of the execution of the GMP Amendment are sufficient to enable it to determine the GMP for all the Work covered by such GMP Amendment and that such Work can be completed in accordance with the Contract Documents for the GMP. By agreeing to a GMP, the CMAR agrees with the Owner that the Work required by the Contract Documents for the Work covered by the GMP Amendment, including without limitation construction means, methods, procedures and techniques necessary to perform the Work, will be consistent with (i) good and sound practices within the construction industry, (ii) generally prevailing and accepted industry standards applicable to the Work, and (iii) requirements of any warranties applicable to the Work.
4. The Standard General Conditions of The Construction Contract, Article 1- Definitions and Terminology, Section 1.01 Defined Terms, item number 44 Substantial Completion is amended as follows: Add the following at the end of item 44, "

"Substantial Completion" means that the facilities are completed to the point that water can be delivered by the Pump Station to the City of Keller distribution system, to the satisfaction

of the Engineer. Successful completion of the 30-day acceptance test with all pumps running is required in order to achieve Substantial Completion. A mutually agreeable startup plan addressing the details of startup and the specific terms of the 30-Day acceptance test will be developed and agreed to by both parties and included as a future Amendment to the Agreement. The Work must be operational and ready for the Owner's continuous use as intended. All initial training for Owner personnel required by the specifications by the Contractor and his subcontractors and suppliers shall have been completed. All preliminary operations and maintenance manuals shall have been submitted. All process control, and SCADA equipment shall be installed and operational or temporary arrangements satisfactory to Owner shall have been made. The site shall be made secure with the specified and indicated fencing and all roadwork shall be completed. Portions of the Work not essential to pump station operation which can be completed without interruption of pump station operation and may be completed after the Work is accepted as substantially complete shall be limited to the following items: final site grading, seeding, final site cleanup and Punchlist items."

5. The Construction Management At Risk Services Agreement, Article 4: Contract Times, Section 4.02 is amended as follows: Delete "These dates are approximate as of the time of this initial Agreement and will be fixed if and when a Guaranteed Maximum Price Amendment for the entire Work is established", and replace with the following: "The Date for Substantial Completion shall be no later than July 1, 2019 and the date for Final Completion shall be no later than August 31, 2019."
6. The Construction Management At Risk Services Agreement, Article 4: Contract Times, Section 4.03 is amended as follows: "Delete "2.01 and 2.02" from the first sentence and replace with "4.02". Add the following after the last sentence, "If the Date for Substantial Completion is not achieved the liquidated damages shall be one thousand, five hundred dollars (\$1,500) per day and if the Date for Final Completion is not achieved the liquidated damages shall be five hundred dollars (\$500) per day."
7. The Standard General Conditions of The Construction Contract Article 11 - Cost of the Work; Allowances; Unit Price Work, Section 11.01(A)(1)(c) shall be amended as follows. After the sentence that ends with the phrase, "of the GMP Amendment", add a new sentence, "The General Conditions percentage shall be 6 and forty-four hundredths percent (6.44%) This percentage shall only be applied to the Work Bid Packages and not the Early Work Packages as defined in Exhibit 1 to this GMP Amendment."
8. The Construction Management At Risk Services Agreement, Article 8: Contingency Funds, Section 8.02 is amended as follows: Delete, " percent (%) of the Cost of Work", and replace with, "one-hundred thousand dollars and no cents (\$100,000.00). Use of contingency funds shall be inclusive of Cost of Work, General Conditions and CMAR Fee. The Parties agree that increased materials cost due to tariffs and bypass pumping, if delivery of water is late, are permitted uses of the contingency funds". Delete, "[Contingency funds will be set in the GMP Amendment]".
9. The Construction Management At Risk Services Agreement, Article 8: Contingency Funds is amended as follows: Add a new Section 8.06, "Owner Contingency. In addition to the contingency funds there will be an Owner Contingency of fifty thousand dollars and no cents (\$50,000.00) ("Owner Contingency") which is for the exclusive use of the Owner and is intended for Change Orders, including changes in the scope of the Work. Use of Owner

Contingency shall be inclusive of Cost of Work, General Conditions and CMAR Fee. It is understood that any remaining balance of any Owner Contingency at final completion shall be for the account of the Owner."

10. The Allowance of \$50,000 for the Katy Road Generator is inclusive of Cost of Work, General Conditions and CMAR Fee.
11. A list of the Specifications and Drawings and the following CMAR executed forms are included as Exhibit 2: Contractor Compliance to State Law; Contractor Compliance to Texas Sales Tax Code; Conflict of Interest Questionnaire Form CIQ; Performance Bond Form, Payment Bond Form and Worker's Compensation Insurance.
12. Except as set forth in this Amendment, the Agreement is unaffected and shall continue in full force and effect in accordance with its terms. If there is conflict between this Amendment and the Agreement, the terms of the Agreement will prevail.

IN WITNESS WHEREOF, Owner and CMAR have signed this Amendment in duplicate. One counterpart each has been delivered to Owner and CMAR. All portions of the Contract Documents have been signed or identified by Owner and CMAR or on their behalf.

This Amendment will be effective on the date of the last signature below.

Owner: City of Keller, Texas

CMAR: Felix Construction Company

By: _____

By:  _____

Name: Mark Hafner

Name: RYAN KOONTZ

Title: City Manager

Title: SR. PROJECT MANAGER

Dated: _____

Dated: 10/19/18

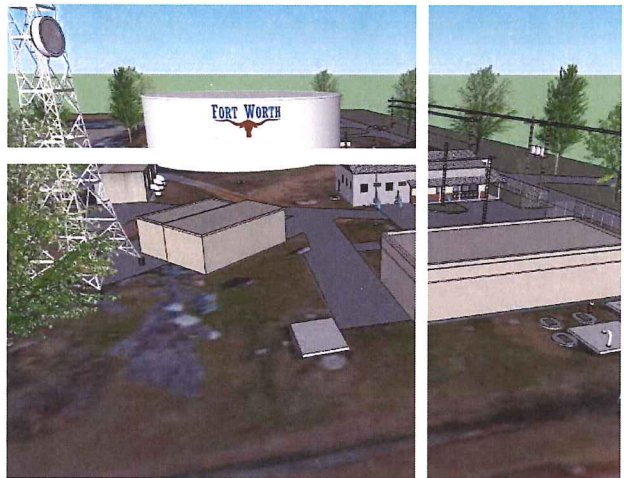
Attest Signature:

Attest Signature:

Kelly Ballard, City of Keller Secretary



EXHIBIT 1
CMAR GMP Proposal



City of Keller Alta Vista Pump Station



Final GMP Proposal

October 2, 2018

TRANSMITTAL

Date: 10/02/18	Project Number: 1859
To: Freese and Nichols	Project Name: Alta Vista Pump Station
Kelly Wood	Project Address: 4600 Ray White Road
4055 International Plaza, Suite 200	Fort Worth, TX 76244
Fort Worth, TX 76109	Owner: City of Keller
kww@freese.com	Engineer: Freese and Nichols

Submittal Number: GMP-Final	Submittal Description: Keller AVPS Final GMP
Engineer Submittal No.:	Specification(s): GMP
Supplier: Felix Construction Company	Drawing(s):

We are transmitting: ☒ Attached ☐ Product data for information only
☒ Submittals for review & comment ☐ Under separate cover via _____

Item	Quantity	Description
	3	Final GMP Proposal

Felix Construction Company certifies either:

- ☒ We have verified that the material or equipment contained in this submittal meets all the requirements, including coordination with all related work, specified (no exceptions)
- ☐ We have verified that the material or equipment contained in this submittal meets all the requirements specified except for the attached deviations (see applicable comments below)

Notes and Comments


Certified by:  Ryan Koontz - Felix Construction Received by: _____

TABLE OF CONTENTS

TAB 1

EXECUTIVE SUMMARY	1
SCOPE OF WORK	2

TAB 2

LIST OF DRAWINGS AND SPECIFICATIONS	3
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TAB 3

EXCLUSIONS	4
CONTINGENCY SCHEDULE	5
ALLOWANCE SCHEDULE	6

TAB 4

PROPOSED 100% GMP	7
EARLY WORK PACKAGES	8
EARLY WORK PACKAGE NO. 1 AMENDMENT	9
EARLY WORK PACKAGE NO. 2 AMENDMENT	11
EARLY WORK PACKAGE NO. 3 AMENDMENT	13
EARLY WORK PACKAGE NO. 4 AMENDMENT	15
WORK PACKAGES	17
WORK PACKAGES #1-4 – FREESE AND NICHOLS RECOMMENDATIONS	18
WORK PACKAGE #1 – CIVIL/DEMO	21
WORK PACKAGE #1 – FELIX CONSTRUCTION COMPANY PROPOSAL	22
WORK PACKAGE #1 – MIDWEST WRECKING CO. OF TEXAS PROPOSAL	27
WORK PACKAGE #2 – BUILDING	33
WORK PACKAGE #2 – FELIX CONSTRUCTION COMPANY PROPOSAL	34
WORK PACKAGE #3 – MECHANICAL	39
WORK PACKAGE #3 – FELIX CONSTRUCTION COMPANY PROPOSAL	40
WORK PACKAGE #4 – ELECTRICAL	45
WORK PACKAGE #4 – FELIX CONSTRUCTION RECOMMENDATIONS	46
WORK PACKAGE #4 – H&H ELECTRICAL CONTRACTORS PROPOSAL	48
WORK PACKAGE #4 – WALKER INDUSTRIAL PROPOSAL	54
WORK PACKAGE #4 – CLARK ELECTRIC PROPOSAL	59
WORK PACKAGE #4 – CF ELECTRICAL PROPOSAL	62
WORK PACKAGE #4 – WHF ELECTRICAL CONTRACTORS PROPOSAL	67
ITEMIZED LIST OF GENERAL CONDITIONS	72
DESCRIPTION OF COST OF WORK	73

TAB 5

PROGRESS SCHEDULE FOR GMP	75
SCHEDULE OF VALUES	102

Tuesday, October 2, 2018

City of Keller
1100 Bear Creek Pkwy
Keller, TX 76248

Attn: Dennis Fritz, P.E.

Re: Alta Vista Pump Station

Subject: FINAL Guaranteed Maximum Price (GMP)

Mr. Fritz,

Felix Construction Company is grateful for the opportunity to participate in this important program for the City of Keller. We are pleased to submit our Guaranteed Maximum Price (GMP) for the referenced Project with approximate dates of construction November 2018 through August 2019.

Our GMP includes:

1. Includes ALL originally specified equipment.
2. Includes ALL originally specified construction materials.
3. Includes Early Work Packages 1-4.
4. Includes Work Packages 1-4.
5. We have excluded the following tasks/activities:
 - a. Taxes of any kind
 - b. Design Services

Felix Construction Company's Final GMP Amount is \$6,474,950. Please find included in the Final GMP Amendment a breakdown of how this number was established. Early Work Packages 1-4 have already been amended to the contract for the amount of \$913,078, this Final GMP is asking that we amend the final contract by \$5,561,872 for the entirety of the work.

If you have any questions or wish to discuss this matter further, please contact me at (469) 458-0011 or mobile (469) 964-9910.

Sincerely,

Ryan Koontz
Felix Construction Company
Sr. Project Manager

Scope of Work

Demolish existing Alta Vista Pump Station building shell and concrete foundation, existing transmission line, and existing meter vault. Excavate and backfill for new pump station building. Place below slab piping and electrical conduit. Place and compact below slab fill materials. Install discharge and suction yard piping and new meter vault. Tie-in to existing water line. Place the pump station foundation concrete needed for the pump pads and piping line ups. Install pumps and exposed piping. Install building shell. Power and Control wiring/cabling is pulled, and electrical terminations are made. Start-up and testing of the pump station.

List of Drawings and Specifications

1. Drawings

- General
- Civil
- Pump Station Mechanical
- Structural
- Architectural
- HVAC
- Plumbing
- Electrical
- Process &

2. Specifications

- Instrumentation
- Division 01 – General Requirements
- Division 02 – Existing Conditions
- Division 03 – Concrete
- Division 04 – Masonry
- Division 05 – Metals
- Division 06 – Woods, Plastics, and Composites
- Division 07 – Thermal and Moisture Protection
- Division 08 – Openings
- Division 09 – Finishes
- Division 10 – Specialties
- Division 22 – Plumbing
- Division 23 – HVAC
- Division 26 – Electrical
- Division 31 – Earthwork
- Division 32 – Exterior Improvements
- Division 33 – Utilities
- Division 40 – Process Integration
- Division 41 – Material Processing and Handling Equipment
- Division 44 – Pollution Control Equipment

3. Technical Addenda

- Work Packages #1-4
 - Addendum 1
 - Addendum 2
 - Addendum 3
- Early Work Package #2
 - Addendum 1-4
- Early Work Package #3
 - Addendum 1

List of Exclusions

1. As per specifications; no variations or assumptions.

Contingency Schedule

1. **Contingency – Contractors:** Use of contingency funds shall be inclusive of Cost of Work, General Conditions and CMAR Fee. The Parties agree that increased materials cost due to tariffs and bypass pumping if delivery of water is late are permitted uses of the contingency funds. Use of contingency funds will require prior approval of the Owner per the agreement.
2. **Contingency – Owners:** Exclusive use of the Owner and is intended for Change Orders, including changes in the scope of the Work. Use of Owner Contingency shall be inclusive of Cost of Work, General Conditions and CMAR Fee. It is understood that any remaining balance of any Owner Contingency at final completion shall be for the account of the Owner. Use of contingency funds will require prior approval of the Owner per the agreement.

Allowance Schedule

1. Katy Rd Generator Allowance.
 - a. Includes civil upgrades, concrete foundation, electrical upgrades and startup and testing at the Katy Road Pump Station for the new generator purchased in Early Work Package #4. The allowance is inclusive of Cost of Work, General Conditions and CMAR Fee.



Alta Vista Pump Station Expansion to 18 MGD



100% GMP Cost Model				% Plans		75		Plan Date		April-16		% Plans		100		Plan Date		June-18				Comments
Engineer: Freese & Nichols								Date of Est.		05/30/18						Date of Est.		10/01/18		Change		
#	Area	Priority	Description	Quant	Unit	Unit Price		Total price		Quant	Unit	Unit Price		Total price		from Prior						
Early Out Work Packages																						
1.00			Early Out Work Package #1																			
1.01			Flow Meter Procurement	1	LS	\$	9,401.00	\$	9,401	1	LS	\$	9,401	9,401	-							
2.00			Early Out Work Package #2																			
2.01			Pumps Procurement	1	LS	\$	542,318.00	\$	542,318	1	LS	\$	530,679	530,679	(11,639)							
3.00			Early Out Work Package #3																			
3.01			Generator Procurement	1	LS	\$	325,391.00	\$	325,391	1	LS	\$	291,124	291,124	(34,267)							
3.00			Early Out Work Package #4																			
3.01			Katy Road Generator Procurement	1	LS	\$	-	\$	-	1	LS	\$	81,874	81,874	81,874							
SUBTOTAL EARLY OUT WOK PACKAGES ABOVE								\$ 877,110						\$ 913,078		\$ 35,968						
Bid Packages																						
1.00			Bid Package #1 - Demo & Civil																			
1.01			Demo	1	LS	\$	148,793.48	\$	148,793	1	LS	\$	76,266	76,266	(72,527)							
1.03			Chain link Fence	1	LS	\$	59,195.39	\$	59,195	1	LS	\$	71,383	71,383	12,188							
1.04			Civil Improvements	1	LS	\$	148,757.37	\$	148,757	1	LS	\$	133,000	133,000	(15,757)							
Subtotal								\$ 356,746						280,649		(76,097)						
2.00			Bid Package #2 - Building																			
2.01			Base Bid	1	LS	\$	1,846,787.00	\$	1,846,787	1	LS	\$	1,675,000	1,675,000	(171,787)							
Subtotal								\$ 1,846,787						1,675,000		(171,787)						
3.00			Bid Package #3 - Mechanical																			
3.01			Complete Package (less Flow Meter Vault & Bypass line)	1	LS	\$	1,011,662.56	\$	1,011,663	1	LS	\$	972,000	972,000	(39,663)							
3.02			Fort Worth Flow Meter Vault & Bypass Line	1	LS	\$	500,111.31	\$	500,111	1	LS	\$	461,588	461,588	(38,523)							
3.03			Seeding & Sod	1	LS	\$	57,167.36	\$	57,167	36524	SF	\$	0.25	9,131	(48,036)							
Subtotal								\$ 1,568,941						1,442,719		(126,222)						
4.00			Bid Package #4 - Electrical																			
4.01			Electrical Bid	1	LS	\$	1,172,000.00	\$	1,172,000	1	LS	\$	1,104,500	1,104,500	(67,500)							
4.02			Infinite Services	1	LS	\$	100,000.00	\$	100,000	1	LS	\$	78,695	78,695	(21,305)							
4.03			Infinite Services Meter Vault Adder	1	LS		\$ -		-	1	LS	\$	13,350	13,350	13,350							
Subtotal								\$ 1,272,000						1,196,545		(75,455)						
SUBTOTAL BID PACKAGES ABOVE								\$ 5,044,474						4,594,913		(449,561)						
1.00			DIVISION 1 - GENERAL REQUIREMENTS																			
1.10			Permits & Environmental Controls	1	LS	\$	15,000.00	\$	15,000	1	LS	\$	15,000	15,000	-	SWPPP, Permits & BMP's						
1.20			Engineering / Testing	1	LS	\$	35,000.00	\$	35,000	1	LS	\$	35,000	35,000	-	Surveying and Material Testing						
1.30			Site Support	1	LS	\$	10,000.00	\$	10,000	1	LS	\$	-	-	(10,000)							
Subtotal								\$ 60,000						50,000		(10,000)						
CMAR GENERAL REQUIREMENTS SUBTOTAL								\$ 60,000						\$ 50,000		(10,000)						
1.00			DIVISION 1 - GENERAL CONDITIONS																			
			General Coonditions - Percentage	0	LS	\$	-	\$	-	6.50	%	\$	4,644,913	301,919	301,919	Project PM, PE & Super, Mob / De-Mob Equipment, J-John, Trailer and Dumpster Rental. AGC Fees & Builder's Risk. Small Tools & Safety Supplies						
1.10			Mobilization/Demobilization	1	LS	\$	2,500.00	\$	2,500	1	LS	\$	-	-	(2,500)							
1.20			Temporary Facilities	1	LS	\$	25,000.00	\$	25,000	1	LS	\$	-	-	(25,000)							
1.40			Insurance & Fees	1	LS	\$	11,097.84	\$	11,098	1	LS	\$	-	-	(11,098)							
1.50			Project Superintendent (including pick-up)	1557.00	MH	\$	88.25	\$	137,405	1,557.00	MH	\$	-	-	(137,405)							
1.60			Project Manager (including pick-up)	1039.00	MH	\$	82.00	\$	85,198	1,039.00	MH	\$	-	-	(85,198)							
1.70			Project Engineer (including pick-up)	347.00	MH	\$	65.00	\$	22,555	347.00	MH	\$	-	-	(22,555)							
Subtotal Project Team (Construction)								\$ 283,756						301,919		18,163						
CMAR GENERAL CONDITIONS SUBTOTAL								\$ 283,756						\$ 301,919		18,163						
FEE, BOND, INSURANCE AND TAXES																						
			CMAR Fee (Excludes Early Out Packages)	7.50	%	N/A		\$	399,617	7.50	%	\$	4,946,832	371,012	(28,605)							
			Bonds (Excludes Early Out Packages)	0.89	%	\$	-	\$	47,421	0.89	%	\$	4,946,832	44,027	(3,394)							
Subtotal Fee, Bond, Tax								\$ 447,039						415,039		(31,999)						
GRAND TOTAL								\$ 6,712,379						\$ 6,274,950		(437,430)						
CONTINGENCIES																						
			Contingency - Contractor's	1.00	LS	\$	100,000.00	\$	100,000	1.00	LS	\$	100,000	100,000	-	See Contingency Schedule						
			Contingency - Owner's	1.00	LS	\$	200,000.00	\$	200,000	1.00	LS	\$	50,000	50,000	(150,000)							
			Contingency	1.00	LS	\$	300,000.00	\$	300,000	0.00	LS			-	(300,000)							
			Allowance - Katy Road Gen. Installation	1.00	LS	\$	-	\$	-	1.00	LS	\$	50,000	50,000	50,000	Used for civil improvements, concrete, electrical improvements and any rentals needed for the installation of backup generat (EWP #4) at the Katy Road Pump Station.						
CONTINGENCIES & ALLOWANCES								\$ 600,000						\$ 200,000		(450,000)						
GRAND TOTAL WITH CONTINGENCIES								\$ 7,312,379						\$ 6,474,950		(837,430)						

Early Work Packages



**AMENDMENT NO. 2
To The
CONSTRUCTION MANAGEMENT AT RISK SERVICES AGREEMENT
For The
Alta Vista Pump Station Project**

Early Work Package No. 1 Agreement

This amendment ("Amendment") is made and dated as of June 11th, 2018, between the City of Keller ("City" or "Owner") and the construction manager at risk, Felix Construction Company ("CMAR"), parties to the Construction Management at Risk Services Agreement ("Agreement").

WHEREAS, on November 21, 2017 the City and CMAR entered into an Agreement for the Alta Vista Pump Station Project ("Project"); and

WHEREAS, the Agreement allows for Early Work Packages for the entire Work prior to submittal of the Guaranteed Maximum Price (GMP) Proposal for the Project; and

WHEREAS, the Agreement allows for Early Work Packages to facilitate the early preparation of the Site, purchase long lead time materials and equipment and otherwise accelerate certain portions of the Work in advance of an agreement between the City and CMAR regarding the GMP Amendment for the entire Work; and

WHEREAS, the Agreement, in Section 9.05, allows the CMAR to implement Early Work Packages upon the written agreement of the Parties;

NOW THEREFORE, in consideration of the mutual covenants and agreements contained herein the parties agree as follows:

1. Early Work Package Number 1 Scope of Work: Purchase a 20-inch flow meter as described in the attached proposal for Early Work Package No. 1, dated May 21, 2018 (consisting of 32 pages).
2. Early Work Package No. 1 "not to exceed" proposal cost is \$9,401.00. For detailed breakdown, see attached proposal for Early Work Package No. 1, dated May 21, 2018
3. The Schedule for the completion of this Early Work Package No. 1: See attached proposal for Early Work Package No. 1, dated May 21, 2018.
4. Except as set forth in this Amendment, the Agreement is unaffected and shall continue in full force and effect in accordance with its terms. If there is conflict between this Amendment and the Agreement, the terms of the Agreement will prevail.

IN WITNESS WHEREOF, City and CMAR have signed this Amendment in duplicate. One counterpart each has been delivered to Owner and CMAR. All portions of the Contract Documents have been signed or identified by Owner and CMAR or on their behalf.

This Amendment will be effective on June 11th, 2018.

Owner: City of Keller, Texas

CMAR: Felix Construction Company

By: 

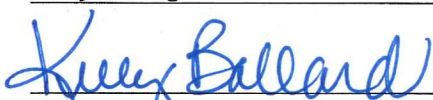
By: 

Name: Mark Hafner

Name: Ryan Koontz

Title: City Manager

Title: Project Manager

Attest: 
Kelly Ballard, City Secretary

Attest: 
Devin Call, Estimator

AMENDMENT NO. 3
To The
CONSTRUCTION MANAGEMENT AT RISK SERVICES AGREEMENT
For The
Alta Vista Pump Station Project

Early Work Package No. 2 Agreement

This amendment ("Amendment") is made and dated as of July 31st, 2018, between the City of Keller ("City" or "Owner") and the construction manager at risk, Felix Construction Company ("CMAR"), parties to the Construction Management at Risk Services Agreement ("Agreement").

WHEREAS, on November 21, 2017 the City and CMAR entered into an Agreement for the Alta Vista Pump Station Project ("Project"); and

WHEREAS, the Agreement allows for Early Work Packages for the entire Work prior to submittal of the Guaranteed Maximum Price (GMP) Proposal for the Project; and

WHEREAS, the Agreement allows for Early Work Packages to facilitate the early preparation of the Site, purchase long lead time materials and equipment and otherwise accelerate certain portions of the Work in advance of an agreement between the City and CMAR regarding the GMP Amendment for the entire Work; and

WHEREAS, the Agreement, in Section 9.05, allows the CMAR to implement Early Work Packages upon the written agreement of the Parties;

NOW THEREFORE, in consideration of the mutual covenants and agreements contained herein the parties agree as follows:

1. Early Work Package Number 2 Scope of Work: Purchase four (4) 300 HP Pumps and Motors as described in the attached proposal for Early Work Package No. 2, dated July 24, 2018 (consisting of 190 pages).
2. Early Work Package No. 2 "not to exceed" proposal cost is \$530,679.00. For detailed breakdown, see attached proposal for Early Work Package No. 2, dated July 24, 2018
3. The Schedule for the completion of this Early Work Package No. 2: See attached proposal for Early Work Package No. 2, dated July 24, 2018.
4. Except as set forth in this Amendment, the Agreement is unaffected and shall continue in full force and effect in accordance with its terms. If there is conflict between this Amendment and the Agreement, the terms of the Agreement will prevail.

IN WITNESS WHEREOF, City and CMAR have signed this Amendment in duplicate. One counterpart each has been delivered to Owner and CMAR. All portions of the Contract Documents have been signed or identified by Owner and CMAR or on their behalf.

This Amendment will be effective on July 31st, 2018.

Owner: City of Keller, Texas

CMAR: Felix Construction Company

By: 

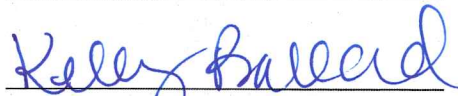
By: 


Name: Mark Hafner

Name: Ryan Koontz

Title: City Manager

Title: Project Manager

Attest: 
Kelly Ballard, City Secretary

Attest: 
Devin Call, Estimator

AMENDMENT NO. 4
To The
CONSTRUCTION MANAGEMENT AT RISK SERVICES AGREEMENT
For The
Alta Vista Pump Station Project

Early Work Package No. 3 Agreement

This amendment ("Amendment") is made and dated as of July 31st, 2018, between the City of Keller ("City" or "Owner") and the construction manager at risk, Felix Construction Company ("CMAR"), parties to the Construction Management at Risk Services Agreement ("Agreement").

WHEREAS, on November 21, 2017 the City and CMAR entered into an Agreement for the Alta Vista Pump Station Project ("Project"); and

WHEREAS, the Agreement allows for Early Work Packages for the entire Work prior to submittal of the Guaranteed Maximum Price (GMP) Proposal for the Project; and

WHEREAS, the Agreement allows for Early Work Packages to facilitate the early preparation of the Site, purchase long lead time materials and equipment and otherwise accelerate certain portions of the Work in advance of an agreement between the City and CMAR regarding the GMP Amendment for the entire Work; and

WHEREAS, the Agreement, in Section 9.05, allows the CMAR to implement Early Work Packages upon the written agreement of the Parties;

NOW THEREFORE, in consideration of the mutual covenants and agreements contained herein the parties agree as follows:

1. Early Work Package Number 3 Scope of Work: Purchase an 800 KW Generator as described in the attached proposal for Early Work Package No. 3, dated July 3, 2018 (consisting of 228 pages).
2. Early Work Package No. 3 "not to exceed" proposal cost is \$291,124.00. For detailed breakdown, see attached proposal for Early Work Package No. 3, dated July 3, 2018
3. The Schedule for the completion of this Early Work Package No. 3: See attached proposal for Early Work Package No. 3, dated July 3, 2018.
4. Except as set forth in this Amendment, the Agreement is unaffected and shall continue in full force and effect in accordance with its terms. If there is conflict between this Amendment and the Agreement, the terms of the Agreement will prevail.

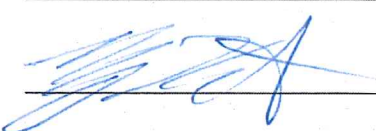
IN WITNESS WHEREOF, City and CMAR have signed this Amendment in duplicate. One counterpart each has been delivered to Owner and CMAR. All portions of the Contract Documents have been signed or identified by Owner and CMAR or on their behalf.

This Amendment will be effective on July 31st, 2018.

Owner: City of Keller, Texas

CMAR: Felix Construction Company

By: 


By: 

Name: Mark Hafner

Name: Ryan Koontz

Title: City Manager

Title: Project Manager

Attest: 
Kelly Ballard, City Secretary

Attest: 
Devin Call, Estimator

AMENDMENT NO. 5
To The
CONSTRUCTION MANAGEMENT AT RISK SERVICES AGREEMENT
For The
Alta Vista Pump Station Project

Early Work Package No. 4 Agreement

This amendment ("Amendment") is made and dated as of Sept. 21, 2018, between the City of Keller ("City" or "Owner") and the construction manager at risk, Felix Construction Company ("CMAR"), parties to the Construction Management at Risk Services Agreement ("Agreement").

WHEREAS, on November 21, 2017 the City and CMAR entered into an Agreement for the Alta Vista Pump Station Project ("Project"); and

WHEREAS, the Agreement allows for Early Work Packages to facilitate the early preparation of the Site, purchase long lead time materials and equipment and otherwise accelerate certain portions of the Work in advance of an agreement between the City and CMAR regarding the GMP Amendment for the entire Work; and

WHEREAS, the Agreement, in Section 9.05, allows the CMAR to implement Early Work Packages upon the written agreement of the Parties;

NOW THEREFORE, in consideration of the mutual covenants and agreements contained herein the parties agree as follows:

1. Early Work Package Number 4 Scope of Work: Purchase a 350 KW Generator for the Katy Road Pump Station which will become the primary pumped-source of water to the Keller water system during the construction of the Alta Vista Pump Station and is described in the attached proposal for Early Work Package No. 4, dated September 17, 2018 (consisting of 22 pages).
2. Early Work Package No. 4 "not to exceed" proposal cost is \$81,874.00. For detailed breakdown, see attached proposal for Early Work Package No. 4, dated September 17, 2018
3. The Schedule for the completion of this Early Work Package No. 4: See attached proposal for Early Work Package No. 4, dated September 17, 2018.
4. Except as set forth in this Amendment, the Agreement is unaffected and shall continue in full force and effect in accordance with its terms. If there is conflict between this Amendment and the Agreement, the terms of the Agreement will prevail.

IN WITNESS WHEREOF, City and CMAR have signed this Amendment in duplicate. One counterpart each has been delivered to Owner and CMAR. All portions of the Contract Documents have been signed or identified by Owner and CMAR or on their behalf.

This Amendment will be effective on Sept. 21, 2018.

Owner: City of Keller, Texas

CMAR: Felix Construction Company

By: 

By: 

Name: Mark Hafner

Name: David Giannetto

Title: City Manager

Title: Principal

Attest: 

Attest: 

Kelly Ballard, City Secretary

Kevin Felix, Vice President



Work Packages

September 26, 2018

Dennis Fritz, P.E.

City of Keller
1100 Bear Creek Pkwy.
P.O. Box 770
Keller, TX 76244

RE: City of Keller Alta Vista Pump Station Expansion to 18 MGD
Project #600-CIP-1201
Work Package Proposal Recommendations

Dear Dennis,

Four separate work package solicitations were issued by Felix Construction Company, the Construction-Manager-at-Risk (CMAR) for the Alta Vista Pump Station (AVPS). Proposals from prospective sub-contractors were received for these work packages between August 28, 2018 and September 12, 2018. The work packages comprise most of the work for the AVPS project with the exception of the Early Work Packages issued for early procurement (pumps, generators, etc.). The review and evaluation of these proposals for all work packages has been completed. Freese and Nichols, Inc. (FNI) evaluation and recommendation for award of these work packages are as follows.

Work Package No. 1 – Civil / Demo

FNI received proposals at its offices for Work Package No. 1 – Civil / Demo, on September 12, 2018 at 2:00 PM. The proposals were publicly opened and read aloud. Two proposals were submitted. The tabulation of these proposals follows:

Proposer	Total Proposal Amount
Midwest Wrecking Co. of Texas Inc.	\$ 178,157.00
Felix Construction Company	\$ 280,649.00

The solicitation package was issued as a Competitive Sealed Proposal (CSP) which allows consideration of qualifications in addition to cost to be used in the evaluation of the best value for the Owner. The criteria used was published as a part of the CSP solicitation, requiring submission of relevant documentation with the proposal. FNI received the Proposals on behalf of the Owner due to the fact Felix Construction, the CMAR, submitted a Proposal. The City, with the technical assistance of FNI, was responsible for evaluating the Proposals and selecting the successful Offeror. This was done without input from the CMAR, to maintain an equitable and objective assessment. In their proposal, Midwest Wrecking excluded portions of the scope of work called for in the work package, including over excavation and placement of fill materials on site, as well as electrical duct bank demolition. These exceptions constitute a significant portion of the work for the project. The provision for exceptions was

intended to account for clarifications or minor exclusions. Any exceptions would require the CMAR to perform this work. In this case the work would need to be incidental or minor. The scope of work excluded by Midwest's Proposal cannot be accommodated by other means, nor can the work package be altered to reflect Midwest's proposal. As such, FNI deems Midwest's proposal to be non-responsive as it does not conform to the contract work package requirements.

Felix Construction did provide a conforming proposal. Though the price is higher, it includes all work called for in the work package. FNI believes the proposal pricing for the work package is consistent with current construction market conditions and Felix is qualified to perform the work. FNI's estimate for the work contemplated in the work package was \$263,000 and Felix Construction's estimate of the work package in its Project preliminary GMP estimate was \$356,750. The cost is beneath Felix's budget estimate and within 7% of FNI's independent estimate. FNI recommends that award of Work Package No. 1 be made to Felix Construction Company.

Work Package No. 2 – Building

FNI received proposals at its offices for Work Package No. 2 – Building, on September 11, 2018 at 2:00 PM. A single proposal was received and was publicly opened and read aloud. The tabulation of the proposal follows:

Proposer	Total Proposal Amount
Felix Construction Company	\$ 1,675,000.00

Felix Construction Company submitted a conforming proposal. Even though only one proposal was submitted, FNI believes the proposal pricing for the work package is consistent with current construction market conditions. Felix Construction's estimate of the work package in its Project preliminary GMP estimate was \$1,846,787. Further the package would reflect a significant level of competition among suppliers and subcontractors. FNI recommends that award of Work Package No. 2 be made to Felix Construction Company. As a part of their effort to solicit interest in this package, Felix mailed notices to prospective contractors in the bidding community, advertised in local newspapers and publicized the bidding on CivCast. The project generated interest resulting in 88 planholders representing General Contractors, Sub-contractors and suppliers.

Work Package No. 3 – Mechanical

FNI received proposals at its offices for Work Package No. 3 – Mechanical, on August 29, 2018 at 2:00 PM. A single proposal was received and was publicly opened and read aloud. The tabulation of the proposal follows:

Proposer	Total Proposal Amount
Felix Construction Company	\$ 1,442,719.00

Felix Construction Company submitted a conforming proposal. Even though only one proposal was submitted, FNI believes the proposal pricing for the work package is consistent with current construction market conditions. Felix Construction's estimate of the work package in its Project preliminary GMP estimate was \$1,511,774. Further the package would reflect a significant level of competition among suppliers and subcontractors. FNI recommends that award of Work Package No. 3 be made to Felix Construction Company. As a part of their effort to solicit interest in this package, Felix mailed notices to prospective contractors in the bidding community, advertised in local newspapers and

publicized the bidding on CivCast. The project generated interest resulting in 79 planholders representing General Contractors, Sub-contractors and suppliers.

Work Package No. 4 – Electrical

Felix Construction (CMAR) received proposals at its offices for Work Package No. 4 – Electrical, on August 28, 2018 at 2:00 PM. Five (5) proposals were received. Felix provided a tabulation of these proposals along with its recommendation for award (attached for reference). FNI as well as the City served on the selection committee. FNI concurs with the committee's evaluation and Felix's recommendation of award to H&H Electrical Contractors, Inc.

If you concur with our findings, FNI will notify Felix Construction of these recommendations so they may finalize their GMP submittal.

Sincerely,



Kelly Wood, P.E.
Project Manager

Attachments

Work Package #1 – Civil/Demo

PROPOSAL FORM

(TO BE SUBMITTED IN A SEALED ENVELOPE)

City of Keller Alta Vista Pump Station Expansion to 18 GD

Work Package #1: Civil/Demo

Proposal of Felix Construction Company

Address: Street/PO Box 1313 Valwood Parkway, Suite 320

City: Carrollton
TX, 75006

State/Zip: ..

To: Freese and Nichols
Attn: Kelly Wood
4055 International Plaza, Suite 200
Fort Worth, TX 76109

ARTICLE 1: Proposer's Declaration and Understanding

- 1.1 This Proposal is genuine and not made in the interest of or on behalf of any undisclosed person, firm, or corporation and is not submitted in conformity with any agreement or rules of any group, association organization or corporation; Proposer has not directly or indirectly induced or solicited any other Proposer to submit a false or sham Proposal; Proposer has not solicited or induced any person, firm, or corporation to refrain from proposing; and Proposer has not sought by collusion to obtain for itself any advantage over any other Proposer or over Owner.
- 1.2 The submission of the Proposal has been duly authorized by, and in all respects of, the Proposer. The undersigned declared that it is the Proposer or by holding the position below indicated is authorized to execute this proposal form on behalf of the Proposer and that all representations made on this form are true and accurate.
- 1.3 In submitting this Proposal, the Proposer certifies it is qualified to do business in the State of Texas as required by laws, regulations, and rules or, if allowed by statute, covenants to obtain such qualification prior to contract award.
- 1.4 In submitting this proposal, the Proposer makes all representations required by the Notice to Proposers and further warrants and represents that:
 - Proposer has examined copies of all Contract Documents, the Notice to Proposers, the Instructions to Proposers, and all the Addenda (receipt of which is hereby acknowledged):

Addendum No.	Addendum Date	Signature Acknowledging Receipt
1	08/21/2018	Dale
2	08/24/2018	Dale
3	08/27/2018	Dale

- Proposer has familiarized itself with the nature and extent of the Contract Documents, Work, site, and local conditions and Laws and Regulations that in any manner may affect cost, progress, performance or furnishing the Goods and Special Services.

- 1.5 The undersigned agrees to enter into a Subcontract Agreement with the CMAR (Felix Construction) for the proposed **Work Package #1 – Civil/Demo** for the amount indicated in this Proposal Form and in accordance with the other terms and conditions of these Contract Documents.
- 1.6 This proposal shall remain subject to acceptance for a period of 120 calendar days after the day of Proposal opening. If the CMAR has not executed the Subcontract Agreement within the 120-calendar day period, the Proposer will have the right to negotiate any price increases with the CMAR.
- 1.7 The CMAR's decision on the Reservoir Clearing Construction Package selection will be final. By submitting a Proposal, Proposer waives any right to protest.

ARTICLE 2: STATE AND LOCAL SALES AND USE TAXES

- 2.1 Except as may be specifically provided to the contrary in any of the Contract Documents, the Proposal Price shall include all applicable international, federal, state and local transportation, privilege, occupation, and other applicable taxes to the work and all international, federal, state, and local taxes, contributions, and premiums imposed upon or measured, by Proposer's payroll. The CONSTRUCTION MANAGER shall not be responsible for any state or local sales, use or excise taxes. The OWNER is a governmental body whose purchase or purchases on behalf of the OWNER are exempt from state and local sales, use and excise taxes.

ARTICLE 3: LICENSES, PERMITS, AND INSPECTIONS

- 3.1 The CMAR will be responsible for adhering to SWPPP. The CMAR will be responsible to design, furnish, install, and protect and maintain the BMPs within the work areas. The PROSPER will have to follow and comply with the CMAR's plan.
- 3.2 The CMAR will acquire any necessary permits.

ARTICLE 4: SUMMARY OF WORK

- 4.1 You agree to furnish all equipment, material, labor, supervision and insurances for the **Work Package #1 – Civil/Demo** per drawings and specifications noted below for the City of Keller Alta Vista Pump Station Expansion to 18 MGD Project including Addenda noted in Article 1.4 above.

Contract Drawings

- Construction Drawings

Contract Specifications

- Division 01 General Requirements
- Division 02 Existing Conditions
- Division 03 Concrete
- Division 04 Masonry
- Division 05 Metals
- Division 06 Woods, Plastics, and Composites
- Division 07 Thermal and Moisture Protection
- Division 08 Openings
- Division 09 Finishes
- Division 10 Specialties
- Division 22 Plumbing
- Division 23 HVAC
- Division 26 Electrical
- Division 31 Earthwork
- Division 32 Exterior Improvements
- Division 33 Utilities
- Division 40 Process Integration
- Division 41 Material Processing and Handling Equipment

Scope of Work includes, but not limited to:

- Demo of existing pump station
- Removal of existing pavement
- Over excavation and backfill of new pump station
- Removal and replacement of chain link fence
- Removal of existing 20" discharge piping and vault
- Removal of existing suction piping
- Coordination with other Contracts and Packages
- Job site cleanup and proper disposal for work under this subcontract is to be carried out daily.
- Maintenance of Record Drawings for all work under this subcontract, provide information to CMAR each month with application for payment.
- All work to be coordinated with CMAR's Project Superintendent.
- Payment and Performance bonds per Subcontract Agreement.
- Equipment mobilization and demobilization.

Specific exclusions to the scope of work:

1. Sales Tax for permanent materials incorporated into the project.

ARTICLE 5: CONTRACT PAYMENT STRUCTURE

This contract will be paid out as a Lump Sum Contract based on totals from Article 6: Proposal Form below. Payments will be made on a monthly basis. Monthly payment applications are to be submitted by the 20th of each month for work completed to that date with updated progress schedule and approved schedule of values.

ARTICLE 6: PROPOSAL FORM

#	Description	Quantity	Unit	Unit Price	Total Price
1	Demo	1	LS	76,266	76,266
2	Chain link Fence	1	LS	71,383	71,383
3	Civil Improvements	1	LS	133,000	133,000
Total Proposal					280,649

ARTICLE 7: PROPOSERS

Respectfully submitted,

By: Matt Phillips

Title: Vice President

Address: 1313 Valwood Parkway, Suite 320

Carrollton, TX 75006

(SEAL)

If Proposer is Corporation Date: April 2, 1987

ARTICLE 6: PROPOSAL FORM

#	Description	Quantity	Unit	Unit Price	Total Price
1	Demo	1	LS		\$ 73,425.00
2	Chain link Fence	1	LS		\$ 67,457.00
3	Civil Improvements	1	LS		\$ 37,275.00
Total Proposal					\$ 178,157.00

ARTICLE 7: PROPOSERS

Respectfully submitted,

By: David Densmore

Title: President

Address: 305 NE Loop 820

Hurst, Texas 76053

(SEAL)

If Proposer is Corporation Date: ____



American Contractors Indemnity Company dba Texas Bonding Company

TEXAS COMPLAINT NOTICE

IMPORTANT NOTICE

1. To obtain information or make a complaint:
2. You may contact your agent.
3. You may call the company's toll free telephone number for information or to make a complaint at:

1-800-486-6695

4. You may also write to the company at:

801 S. Figueroa Street, Suite 700
Los Angeles, CA 90017

5. You may contact the Texas Department of Insurance to obtain information on companies, coverages, rights, or complaints at:

1-800-252-3439

6. You may write to the Texas Department of Insurance at:

Consumer Protection (111-1A)
P.O. Box 149091
Austin, TX 78714-9091
Fax No. (512) 490-1007
Web: <http://www.tdi.texas.gov>
E-mail: ConsumerProtection@tdi.texas.gov

7. **PREMIUM OR CLAIM DISPUTES:**

Should you have a dispute concerning your premium or about a claim you should contact the agent or the company first. If the dispute is not resolved, you may contact the Texas Department of Insurance.

8. **ATTACH THIS NOTICE TO YOUR POLICY**

This notice is for information only and does not become a part or condition of the attached document.

AVISO IMPORTANTE

Para obtener informacion o para someter una queja:

Puede comunicarse con su agente.

Usted puede llamar al numero de telefono gratis de la compania's para informacion o para someter una queja al:

1-800-486-6695

Usted tambien puede escribir a la compa  a:

801 S. Figueroa Street, Suite 700
Los Angeles, CA 90017

Puede comunicarse con el Departamento de Seguros de Texas para obtener informacion acerca de companias, coberturas, derechos, o quejas al:

1-800-252-3439

Puede escribir al Departamento de Seguros de Texas al:

Consumer Protection (111-1A)
P.O. Box 149091
Austin, TX 78714-9091
Fax No. (512) 490-1007
Web: <http://www.tdi.state.tx.us>
E-mail: ConsumerProtection@tdi.texas.gov

DISPUTAS SOBRE PRIMAS O RECLAMOS:

Si tiene una disputa concerniente a su prima o a un reclamo, debe comunicarse con el agente o la compania primero. Si no se resuelve la disputa, puede entonces comunicarse con el departamento (TDI).

UNA ESTE AVISO A SU POLIZA

Esta aviso es solo para proposito de informacion y no se convierte en parte o condicion del documento adjunto.

**Bid Bond
SURETY DEPARTMENT**

**Conforms with the American Institute of
Architects, A.I.A Documents No. A-310**

KNOW ALL MEN BY THESE PRESENTS,

That we, Midwest Wrecking Co. of Texas, Inc. as Principal
hereinafter called the Principal, and American Contractors Indemnity Company dba Texas Bonding Company a corporation
created and existing under the laws of the State of CA whose principal office is in Los Angeles, CA as
Surety, hereinafter called the Surety, are held and firmly bound unto Kelly Wood, Freese and Nichols
as Oblige, hereinafter called the Oblige,

in the sum of Five Percent of the Greatest Amount Bid

Dollars (\$5% GAB)

for the payment of which sum, well and truly to be made, the said Principal and the said Surety, bind ourselves, our heirs,
executors, administrators, successors and assigns, jointly and severally, firmly by these presents

Whereas, the Principal has submitted a bid for Alta Vista Pump Station Expansion Work Package 1

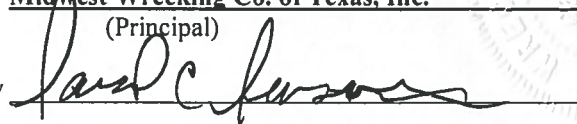
NOW, THEREFORE, if the Oblige shall accept the bid of the Principal and the Principal shall enter into a contract with the
Oblige in accordance with the terms of such bid, and give such bond or bonds as may be specified in the bidding or contract
documents with good and sufficient surety for the faithful performance of such contract and for the prompt payment of labor and
material furnished in the prosecution thereof, or in the event of the failure of the Principal to enter such contract and give such
bond or bonds, if the Principal shall pay to the Oblige the difference not to exceed the penalty hereof between the amount
specified in said bid and such larger amount for which the Oblige may in good faith contract with another party to perform the
work covered by said bid, then this obligation shall be null and void, otherwise to remain in full force and effect

Signed and sealed this 12th day of September, 2018

Midwest Wrecking Co. of Texas, Inc.

(Principal)

By

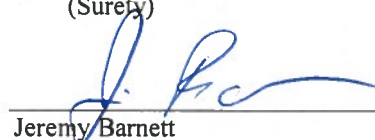


(SEAL)

American Contractors Indemnity Company dba Texas Bonding
Company

(Surety)

By


Jeremy Barnett

Attorney-in-fact

(SEAL)



TOKIO MARINE
HCC

POWER OF ATTORNEY

AMERICAN CONTRACTORS INDEMNITY COMPANY TEXAS BONDING COMPANY
UNITED STATES SURETY COMPANY U.S. SPECIALTY INSURANCE COMPANY

KNOW ALL MEN BY THESE PRESENTS: That American Contractors Indemnity Company, a California corporation, Texas Bonding Company, an assumed name of American Contractors Indemnity Company, United States Surety Company, a Maryland corporation and U.S. Specialty Insurance Company, a Texas corporation (collectively, the "Companies"), do by these presents make, constitute and appoint:

Johnny Moss, Jay Jordan, Tony Fierro, Jeremy Barnett, Jade Porter, Mistie Beck,
Robert G. Kanuth and Jarrett Willson of Rockwall, Texas.

its true and lawful Attorney(s)-in-fact, each in their separate capacity if more than one is named above, with full power and authority hereby conferred in its name, place and stead, to execute, acknowledge and deliver any and all bonds, recognizances, undertakings or other instruments or contracts of suretyship to include riders, amendments, and consents of surety, providing the bond penalty does not exceed **Ten Million** Dollars (**10,000,000.00**). This Power of Attorney shall expire without further action on April 23rd, 2022. This Power of Attorney is granted under and by authority of the following resolutions adopted by the Boards of Directors of the Companies:

Be it Resolved, that the President, any Vice-President, any Assistant Vice-President, any Secretary or any Assistant Secretary shall be and is hereby vested with full power and authority to appoint any one or more suitable persons as Attorney(s)-in-Fact to represent and act for and on behalf of the Company subject to the following provisions:

Attorney-in-Fact may be given full power and authority for and in the name of and on behalf of the Company, to execute, acknowledge and deliver, any and all bonds, recognizances, contracts, agreements or indemnity and other conditional or obligatory undertakings, including any and all consents for the release of retained percentages and/or final estimates on engineering and construction contracts, and any and all notices and documents canceling or terminating the Company's liability thereunder, and any such instruments so executed by any such Attorney-in-Fact shall be binding upon the Company as if signed by the President and sealed and effected by the Corporate Secretary.

Be it Resolved, that the signature of any authorized officer and seal of the Company heretofore or hereafter affixed to any power of attorney or any certificate relating thereto by facsimile, and any power of attorney or certificate bearing facsimile signature or facsimile seal shall be valid and binding upon the Company with respect to any bond or undertaking to which it is attached.

IN WITNESS WHEREOF, The Companies have caused this instrument to be signed and their corporate seals to be hereto affixed, this 1st day of June, 2018.

AMERICAN CONTRACTORS INDEMNITY COMPANY TEXAS BONDING COMPANY
UNITED STATES SURETY COMPANY U.S. SPECIALTY INSURANCE COMPANY

State of California

County of Los Angeles



By: 

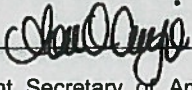
Daniel P. Aguilar, Vice President

A Notary Public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document

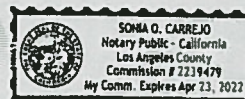
On this 1st day of June, 2018, before me, Sonia O. Carrejo, a notary public, personally appeared Daniel P. Aguilar, Vice President of American Contractors Indemnity Company, Texas Bonding Company, United States Surety Company and U.S. Specialty Insurance Company who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature 

(seal)



I, Kio Lo, Assistant Secretary of American Contractors Indemnity Company, Texas Bonding Company, United States Surety Company and U.S. Specialty Insurance Company, do hereby certify that the above and foregoing is a true and correct copy of a Power of Attorney, executed by said Companies, which is still in full force and effect; furthermore, the resolutions of the Boards of Directors, set out in the Power of Attorney are in full force and effect.

In Witness Whereof, I have hereunto set my hand and affixed the seals of said Companies at Los Angeles, California this 12th day of September, 2018.

Corporate Seals

Bond No. N/A

Agency No. 17042




Kio Lo, Assistant Secretary

visit tmhcc.com/surety for more information

HCCSMANPOA06/2018



COMMERCIAL & INDUSTRIAL DEMOLITION

P.O. Box 161819 • Fort Worth, Texas 76161 • Phone: 817-589-7062 • Fax: 817-590-9536

Freese and Nichols
4055 International Plaza, Suite 200
Fort Worth, TX 76109
Attn: Kelly Wood

September 10, 2018

817-735-7300

Reference: Alta Vista Pump Station Expansion Work Package 1, 4600 Ray White Road,
Fort Worth

Kelly:

We propose to provide all labor, materials, equipment and insurance necessary to complete the demolition work in accordance with the following:

- Demolish and remove building, foundation and piers 6' below grade.
- Demolish and remove concrete vault.
- Backfill building foundation and concrete vault.
- Sawcut and remove asphalt pavement.
- Remove 20" pipeline.
- Remove 20" suction pipeline.
- Remove radio tower.
- Remove fence.
- Install new fence and gates.
- Payment and performance bonds.

The above work will be completed for the amount of:

One hundred seventy-eight thousand one hundred fifty-seven dollars (\$ 178,157.00)

We are excluding: SWPPP, silt fence or seeding, Removal of hazardous material, Soil/material testing, Over excavation of new pump station and getting foundation pad ready, Strip and stockpile topsoil on site, Hauling off of other trades spoils, Salvaging for the owner, Tree removal, Disconnection or capping of pipeline, Traffic control, Removal of electrical duct bank, Notification fees to the State Department of Health.

Sincerely,

Midwest Wrecking Co. of Texas



Chester Grace

Work Package #2 – Building

PROPOSAL FORM

(TO BE SUBMITTED IN A SEALED ENVELOPE)

City of Keller Alta Vista Pump Station Expansion to 18 GD

Work Package #2 - Building

Proposal of Felix Construction Company

Address: Street/PO Box 1313 Valwood Parkway, Suite 320

City: Carrollton,
TX, 75006

State/Zip: _

To: Freese and Nichols
Attn: Kelly Wood
4055 International Plaza, Suite 200
Fort Worth, TX 76109

ARTICLE 1: Proposer's Declaration and Understanding

- 1.1 This Proposal is genuine and not made in the interest of or on behalf of any undisclosed person, firm, or corporation and is not submitted in conformity with any agreement or rules of any group, association organization or corporation; Proposer has not directly or indirectly induced or solicited any other Proposer to submit a false or sham Proposal; Proposer has not solicited or induced any person, firm, or corporation to refrain from proposing; and Proposer has not sought by collusion to obtain for itself any advantage over any other Proposer or over Owner.
- 1.2 The submission of the Proposal has been duly authorized by, and in all respects of, the Proposer. The undersigned declared that it is the Proposer or by holding the position below indicated is authorized to execute this proposal form on behalf of the Proposer and that all representations made on this form are true and accurate.
- 1.3 In submitting this Proposal, the Proposer certifies it is qualified to do business in the State of Texas as required by laws, regulations, and rules or, if allowed by statute, covenants to obtain such qualification prior to contract award.
- 1.4 In submitting this proposal, the Proposer makes all representations required by the Notice to Proposers and further warrants and represents that:
 - Proposer has examined copies of all Contract Documents, the Notice to Proposers, the Instructions to Proposers, and all of the Addenda (receipt of which is hereby acknowledged):

Addendum No.	Addendum Date	Signature Acknowledging Receipt
1	08/21/2018	<i>Dell</i>
2	08/24/2018	<i>Dell</i>
3	08/27/2018	<i>Dell</i>

- Proposer has familiarized itself with the nature and extent of the Contract Documents, Work, site, and local conditions and Laws and Regulations that in any manner may affect cost, progress, performance or furnishing the Goods and Special Services.

- 1.5 The undersigned agrees to enter into a Subcontract Agreement with the CMAR (Felix Construction) for the proposed **Work Package #2 – Building** for the amount indicated in this Proposal Form and in accordance with the other terms and conditions of these Contract Documents.
- 1.6 This proposal shall remain subject to acceptance for a period of 120 calendar days after the day of Proposal opening. If the CMAR has not executed the Subcontract Agreement within the 120-calendar day period, the Proposer will have the right to negotiate any price increases with the CMAR.
- 1.7 The CMAR's decision on the Reservoir Clearing Construction Package selection will be final. By submitting a Proposal, Proposer waives any right to protest.

ARTICLE 2: STATE AND LOCAL SALES AND USE TAXES

- 2.1 Except as may be specifically provided to the contrary in any of the Contract Documents, the Proposal Price shall include all applicable international, federal, state and local transportation, privilege, occupation, and other applicable taxes to the work and all international, federal, state, and local taxes, contributions, and premiums imposed upon or measured, by Proposer's payroll. The CONSTRUCTION MANAGER shall not be responsible for any state or local sales, use or excise taxes. The OWNER is a governmental body whose purchase or purchases on behalf of the OWNER are exempt from state and local sales, use and excise taxes.

ARTICLE 3: LICENSES, PERMITS, AND INSPECTIONS

- 3.1 The CMAR will be responsible for adhering to SWPPP. The CMAR will be responsible to design, furnish, install, and protect and maintain the BMPs within the work areas. The PROSPER will have to follow and comply with the CMAR's plan.
- 3.2 The CMAR will acquire any necessary permits.

ARTICLE 4: SUMMARY OF WORK

- 4.1 You agree to furnish all equipment, material, labor, supervision, bonds and insurances for the **Work Package #2 – Building** per drawings and specifications noted below for the City of Keller Alta Vista Pump Station Expansion to 18 MGD Project including Addenda noted in Article 1.4 above.

Contract Drawings

- Construction Drawings

Contract Specifications

- Division 01 General Requirements
- Division 02 Existing Conditions
- Division 03 Concrete
- Division 04 Masonry
- Division 05 Metals
- Division 06 Woods, Plastics, and Composites
- Division 07 Thermal and Moisture Protection
- Division 08 Openings
- Division 09 Finishes
- Division 10 Specialties
- Division 22 Plumbing
- Division 23 HVAC
- Division 26 Electrical
- Division 31 Earthwork
- Division 32 Exterior Improvements
- Division 33 Utilities
- Division 40 Process Integration
- Division 41 Material Processing and Handling Equipment

Scope of Work includes, but not limited to:

- Generator Pad
- Pump Station Foundation
- Pump Station sidewalk including the doorway approach slabs
- Transformer Pad
- Pump Support Slabs
- Valve Support Pads
- Equipment Housekeeping Pads
- HVAC Equipment Pads
- Pump Station construction complete minus electrical conduit and wire
- New Pavement including excavation and subgrade preparation on both East and West sides of Pump Stations
- Job site cleanup and proper disposal for work under this subcontract is to be carried out daily.
- Maintenance of Record Drawings for all work under this subcontract, provide information to CMAR each month with application for payment.

- All work to be coordinated with CMAR's Project Superintendent.
- Payment and Performance bonds per Subcontract Agreement.
- Equipment mobilization and demobilization.

Specific exclusions to the scope of work:

1. Sales Tax for permanent materials incorporated into the project.

ARTICLE 5: CONTRACT PAYMENT STRUCTURE

This contract will be paid out as a Lump Sum Contract based on totals from Article 6: Proposal Form below. Payments will be made on a monthly basis. Monthly payment applications are to be submitted by the 20th of each month for work completed to that date with updated progress schedule and approved schedule of values.

ARTICLE 6: PROPOSAL FORM

#	Description	Quantity	Unit	Unit Price	Total Price
1	Building Package Complete	1	LS	1,675,000	1,675,000
Total Proposal					1,675,000

ARTICLE 7: PROPOSERS

Respectfully submitted,

By: RYAN KROUTZ 

Title: PROJECT MANAGER

Address: 1313 VALWOOD PLWY

SUITE 320

CARROLLTON, TX 75006

(SEAL)

If Proposer is Corporation Date: April 02, 1987

Work Package #3 – Mechanical

PROPOSAL FORM

(TO BE SUBMITTED IN A SEALED ENVELOPE)

City of Keller Alta Vista Pump Station Expansion to 18 GD

Work Package #3 - Mechanical

Proposal of Felix Construction Company

Address: Street/PO Box 1313 Valwood Parkway, Suite 320

City: Carrollton

State/Zip: _

TX 75006

To: Freese and Nichols

Attn: Kelly Wood

4055 International Plaza, Suite 200

Fort Worth, TX 76109

ARTICLE 1: Proposer's Declaration and Understanding

- 1.1 This Proposal is genuine and not made in the interest of or on behalf of any undisclosed person, firm, or corporation and is not submitted in conformity with any agreement or rules of any group, association organization or corporation; Proposer has not directly or indirectly induced or solicited any other Proposer to submit a false or sham Proposal; Proposer has not solicited or induced any person, firm, or corporation to refrain from proposing; and Proposer has not sought by collusion to obtain for itself any advantage over any other Proposer or over Owner.
- 1.2 The submission of the Proposal has been duly authorized by, and in all respects of, the Proposer. The undersigned declared that it is the Proposer or by holding the position below indicated is authorized to execute this proposal form on behalf of the Proposer and that all representations made on this form are true and accurate.
- 1.3 In submitting this Proposal, the Proposer certifies it is qualified to do business in the State of Texas as required by laws, regulations, and rules or, if allowed by statute, covenants to obtain such qualification prior to contract award.
- 1.4 In submitting this proposal, the Proposer makes all representations required by the Notice to Proposers and further warrants and represents that:
 - Proposer has examined copies of all Contract Documents, the Notice to Proposers, the Instructions to Proposers, and all of the Addenda (receipt of which is hereby acknowledged):

Addendum No.	Addendum Date	Signature Acknowledging Receipt
1	08/21/2018	<i>Dell</i>
2	08/24/2018	<i>Dell</i>
3	08/27/2018	<i>Dell</i>

- Proposer has familiarized itself with the nature and extent of the Contract Documents, Work, site, and local conditions and Laws and Regulations that in any manner may affect cost, progress, performance or furnishing the Goods and Special Services.

- 1.5 The undersigned agrees to enter into a Subcontract Agreement with the CMAR (Felix Construction) for the proposed **Work Package #3 – Mechanical** for the amount indicated in this Proposal Form and in accordance with the other terms and conditions of these Contract Documents.
- 1.6 This proposal shall remain subject to acceptance for a period of 120 calendar days after the day of Proposal opening. If the CMAR has not executed the Subcontract Agreement within the 120-calendar day period, the Proposer will have the right to negotiate any price increases with the CMAR.
- 1.7 The CMAR's decision on the Reservoir Clearing Construction Package selection will be final. By submitting a Proposal, Proposer waives any right to protest.

ARTICLE 2: STATE AND LOCAL SALES AND USE TAXES

- 2.1 Except as may be specifically provided to the contrary in any of the Contract Documents, the Proposal Price shall include all applicable international, federal, state and local transportation, privilege, occupation, and other applicable taxes to the work and all international, federal, state, and local taxes, contributions, and premiums imposed upon or measured, by Proposer's payroll. The CONSTRUCTION MANAGER shall not be responsible for any state or local sales, use or excise taxes. The OWNER is a governmental body whose purchase or purchases on behalf of the OWNER are exempt from state and local sales, use and excise taxes.

ARTICLE 3: LICENSES, PERMITS, AND INSPECTIONS

- 3.1 The CMAR will be responsible for adhering to SWPPP. The CMAR will be responsible to design, furnish, install, and protect and maintain the BMPs within the work areas. The PROSPER will have to follow and comply with the CMAR's plan.

ARTICLE 4: SUMMARY OF WORK

- 4.1 You agree to furnish all equipment, material, labor, supervision, bonds and insurances for the **Work Package #3 – Mechanical** per drawings and specifications noted below for the City of Keller Alta Vista Pump Station Expansion to 18 MGD Project including Addenda noted in Article 1.4 above.

Contract Drawings

- Construction Drawings

Contract Specifications

- Division 01 General Requirements
- Division 02 Existing Conditions
- Division 03 Concrete
- Division 04 Masonry
- Division 05 Metals
- Division 06 Woods, Plastics, and Composites
- Division 07 Thermal and Moisture Protection
- Division 08 Openings
- Division 09 Finishes
- Division 10 Specialties
- Division 22 Plumbing
- Division 23 HVAC
- Division 26 Electrical
- Division 31 Earthwork
- Division 32 Exterior Improvements
- Division 33 Utilities
- Division 40 Process Integration
- Division 41 Material Processing and Handling Equipment

Scope of Work includes, but not limited to:

- Suction piping complete
- Discharge piping complete
- Tie-in's #1 & #2
- Install pumps
- Flowmeter valve vault and piping complete
- Job site cleanup and proper disposal for work under this subcontract is to be carried out daily.
- Maintenance of Record Drawings for all work under this subcontract, provide information to CMAR each month with application for payment.
- All work to be coordinated with CMAR's Project Superintendent.
- Payment and Performance bonds per Subcontract Agreement.
- Equipment mobilization and demobilization.
- Hydr mulching of disturbed areas

Specific exclusions to the scope of work:

1. Sales Tax for permanent materials incorporated into the project.

ARTICLE 5: CONTRACT PAYMENT STRUCTURE

This contract will be paid out as a Lump Sum Contract based on totals from Article 6: Proposal Form below. Payments will be made on a monthly basis. Monthly payment applications are to be submitted by the 20th of each month for work completed to that date with updated progress schedule and approved schedule of values.

ARTICLE 6: PROPOSAL FORM

#	Description	Quantity	Unit	Unit Price	Total Price
1	Complete Package (less Flow Meter Vault & Bypass Line	1	LS	972,000	972,000
2	Hydromulching	36,524	SF	.25	9,131
3	Fort Worth Flow Meter Vault & Bypass Line	1	LS	461,588	461,588
Total Proposal					1,442,719

ARTICLE 7: PROPOSERS

Respectfully submitted,

By: Matt Phillips

Title: Vice President

Address: 1313 Valwood Parkway, Suite 320

Carrollton, TX 75006

(SEAL)

If Proposer is Corporation Date: April 2, 1987

Work Package #4 – Electrical

Thursday, September 13, 2018

City of Keller, Texas
1100 Bear Creek Parkway
Keller, Texas 76244

Attn: Proposers

Re: Alta Vista Pump Station Expansion – Work Package #4 - Electrical

Subject: Proposal Results

To Whom it May Concern,

We would like to thank all proposers for preparing a proposal for the Alta Vista Pump Station Expansion – Work Package #4 – Electrical.

Attached you will find the results of the Competitive Sealed Proposal Bid Results.

At this time, we have identified H&H Electrical as the successful proposer of the Alta Vista Pump Station Expansion – Work Package #4 – Electrical. We will be in contact to issue a Notice of Award.

If you have any questions or wish to discuss this matter further please contact me at (469) 458-0011 or mobile (469) 964-9910.

Sincerely,



Ryan Koontz
Felix Construction Company
Project Manager

Alta Vista Pump Station Expansion Competitive Sealed Proposal Scoring Sheet					
Work Package	4 - Electrical	4 - Electrical	4 - Electrical	4 - Electrical	4 - Electrical
Contractor	H&H Electrical	Clark Electric, Inc.	Walker Industrial	CF Electric	WHF Electrical Contractors, Inc.
Read Aloud Base Bid	\$ 1,183,195.00	\$ 1,239,529.00	\$ 1,309,982.00	\$ 1,376,500.00	\$ 1,420,000.00
Proposal Best Value Evaluation Score	95.3	88.1	91.7	83.8	83.0
Place	1	3	2	4	5

PROPOSAL FORM

(TO BE SUBMITTED IN A SEALED ENVELOPE)

City of Keller Alta Vista Pump Station Expansion to 18 GD

Work Package #4 - Electrical

Proposal of H&H Electrical Contractors, Inc.
Address: Street/PO Box 8475 County Road 271
City: Terrell State/Zip:
Texas 75160
To: Felix Construction Company
Attn: Ryan Koontz
1313 Valwood Parkway, Suite 320
Carrollton, TX 75006

ARTICLE 1: Proposer's Declaration and Understanding

- 1.1 This Proposal is genuine and not made in the interest of or on behalf of any undisclosed person, firm, or corporation and is not submitted in conformity with any agreement or rules of any group, association organization or corporation; Proposer has not directly or indirectly induced or solicited any other Proposer to submit a false or sham Proposal; Proposer has not solicited or induced any person, firm, or corporation to refrain from proposing; and Proposer has not sought by collusion to obtain for itself any advantage over any other Proposer or over Owner.
- 1.2 The submission of the Proposal has been duly authorized by, and in all respects of, the Proposer. The undersigned declared that it is the Proposer or by holding the position below indicated is authorized to execute this proposal form on behalf of the Proposer and that all representations made on this form are true and accurate.
- 1.3 In submitting this Proposal, the Proposer certifies it is qualified to do business in the State of Texas as required by laws, regulations, and rules or, if allowed by statute, covenants to obtain such qualification prior to contract award.
- 1.4 In submitting this proposal, the Proposer makes all representations required by the Notice to Proposers and further warrants and represents that:
 - Proposer has examined copies of all Contract Documents, the Notice to Proposers, the Instructions to Proposers, and all of the Addenda (receipt of which is hereby acknowledged):

Addendum No.	Addendum Date	Signature Acknowledging Receipt
1	08/20/2018	<i>Stephen Hill</i>
2	08/24/2018	<i>Stephen Hill</i>
3	08/27/2018	<i>Stephen Hill</i>

- Proposer has familiarized itself with the nature and extent of the Contract Documents, Work, site, and local conditions and Laws and Regulations that in any manner may affect cost, progress, performance or furnishing the Goods and Special Services.

- 1.5 The undersigned agrees to enter into a Subcontract Agreement with the CMAR (Felix Construction) for the proposed **Work Package #4 – Electrical** for the amount indicated in this Proposal Form and in accordance with the other terms and conditions of these Contract Documents.
- 1.6 This proposal shall remain subject to acceptance for a period of 120 calendar days after the day of Proposal opening. If the CMAR has not executed the Subcontract Agreement within the 120-calendar day period, the Proposer will have the right to negotiate any price increases with the CMAR.
- 1.7 The CMAR's decision on the Reservoir Clearing Construction Package selection will be final. By submitting a Proposal, Proposer waives any right to protest.

ARTICLE 2: STATE AND LOCAL SALES AND USE TAXES

- 2.1 Except as may be specifically provided to the contrary in any of the Contract Documents, the Proposal Price shall include all applicable international, federal, state and local transportation, privilege, occupation, and other applicable taxes to the work and all international, federal, state, and local taxes, contributions, and premiums imposed upon or measured, by Proposer's payroll. The CONSTRUCTION MANAGER shall not be responsible for any state or local sales, use or excise taxes. The OWNER is a governmental body whose purchase or purchases on behalf of the OWNER are exempt from state and local sales, use and excise taxes.

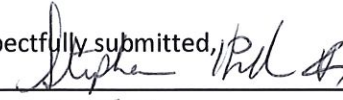
ARTICLE 3: LICENSES, PERMITS, AND INSPECTIONS

- 3.1 The CMAR will be responsible for adhering to SWPPP. The CMAR will be responsible to design, furnish, install, and protect and maintain the BMPs within the work areas. The PROSPER will have to follow and comply with the CMAR's plan.
- 3.2 The CMAR will acquire any necessary permits.

ARTICLE 6: PROPOSAL FORM

#	Description	Quantity	Unit	Unit Price	Total Price
1	Complete Electrical Package	1	LS	\$ 1,104,500.00	\$1,104,500.00
2	Instrumentation and Controls	1	LS	\$78,695.00	\$78,695.00
Total Proposal					\$1,183,195.00

ARTICLE 7: PROPOSERS

Respectfully submitted, 
By: _____ Stephen Hilborn II
Title: President
Address: 8475 County Road 271
Terrell, Texas 75160

(SEAL)

If Proposer is Corporation Date: 12-31-03



Office of the Secretary of State

CERTIFICATE OF INCORPORATION OF

H&H Electrical Contractors, Inc.
Filing Number: 800286780

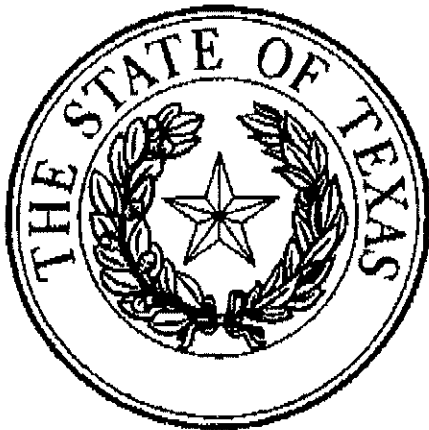
The undersigned, as Secretary of State of Texas, hereby certifies that Articles of Incorporation for the above named corporation have been received in this office and have been found to conform to law.

Accordingly, the undersigned, as Secretary of State, and by virtue of the authority vested in the Secretary by law, hereby issues this Certificate of Incorporation.

Issuance of this Certificate of Incorporation does not authorize the use of a name in this state in violation of the rights of another under the federal Trademark Act of 1946, the Texas trademark law, the Assumed Business or Professional Name Act, or the common law.

Dated: 12/31/2003

Effective: 12/31/2003




Geoffrey S. Connor
Secretary of State

ARTICLES OF INCORPORATION
OF

H & H Electrical Contractors, Inc.

FILED
In the Office of the
Secretary of State of Te:

DEC 31 2003

Corporations Section

ARTICLE ONE

The name of the corporation is:

H & H Electrical Contractors, Inc.

ARTICLE TWO

The period of its duration is perpetual.

ARTICLE THREE

The purpose or purposes for which the corporation is organized are:

The transaction of any or all lawful business for which corporations may be incorporated under the Texas Business Corporation Act.

ARTICLE FOUR

The aggregate number of shares which the corporation shall have

The authority to issue is one million
(1,000,000) of the par value of one cent (.01) each.

ARTICLE FIVE

The corporation will not commence business until it has received for the issuance of its shares consideration of the value of One Thousand Dollars (\$1,000.00),

consisting of money, labor done, or property received, which sum is not less than ONE THOUSAND AND NO/100 DOLLARS (\$1,000.00).

ARTICLE SIX

The post office address of its initial registered agent is:

8475 County Road 271
Terrell, TX 75160

and the name of its initial registered agent and agent for service at such address is:

Stephen Hilborn, II

ARTICLE SEVEN

The number of directors constituting the initial board of directors is not less than one (1) nor more than four (4), and the name and address of the persons who is to serve as director until the first annual meeting of the shareholders, or until their successors are elected and qualified, is:

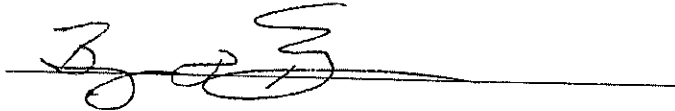
Stephen Hilborn, II
8475 County Road 271
Terrell, TX 75160

ARTICLE EIGHT

The name and address of the incorporator are:

Bryan D. Bulloch
16301 Quorum Drive, Ste 180
Addison, TX 75001

SIGNED IN DUPLICATE this 30th day of Dec., 2003

A handwritten signature in black ink, appearing to be "B. Bulloch", is written over a horizontal line.

Together with a fee of \$300.00, file in duplicate with:

Secretary of State
Statutory Filings Division
Corporations Section
P.O. Box 13697
Austin, TX 78711-3697

PROPOSAL FORM

(TO BE SUBMITTED IN A SEALED ENVELOPE)

City of Keller Alta Vista Pump Station Expansion to 18 GD

Work Package #4 - Electrical

Proposal of Walker Industrial, LLC

Address: Street/PO Box 1505 W. Walnut Hill Ln.

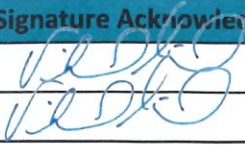
City: Irving, TX 75038

State/Zip:

To: Felix Construction Company
Attn: Ryan Koontz
1313 Valwood Parkway, Suite 320
Carrollton, TX 75006

ARTICLE 1: Proposer's Declaration and Understanding

- 1.1 This Proposal is genuine and not made in the interest of or on behalf of any undisclosed person, firm, or corporation and is not submitted in conformity with any agreement or rules of any group, association organization or corporation; Proposer has not directly or indirectly induced or solicited any other Proposer to submit a false or sham Proposal; Proposer has not solicited or induced any person, firm, or corporation to refrain from proposing; and Proposer has not sought by collusion to obtain for itself any advantage over any other Proposer or over Owner.
- 1.2 The submission of the Proposal has been duly authorized by, and in all respects of, the Proposer. The undersigned declared that it is the Proposer or by holding the position below indicated is authorized to execute this proposal form on behalf of the Proposer and that all representations made on this form are true and accurate.
- 1.3 In submitting this Proposal, the Proposer certifies it is qualified to do business in the State of Texas as required by laws, regulations, and rules or, if allowed by statute, covenants to obtain such qualification prior to contract award.
- 1.4 In submitting this proposal, the Proposer makes all representations required by the Notice to Proposers and further warrants and represents that:
 - Proposer has examined copies of all Contract Documents, the Notice to Proposers, the Instructions to Proposers, and all of the Addenda (receipt of which is hereby acknowledged):

Addendum No.	Addendum Date	Signature Acknowledging Receipt
One	8/17/2018	
Two	8/24/2018	

- Proposer has familiarized itself with the nature and extent of the Contract Documents, Work, site, and local conditions and Laws and Regulations that in any manner may affect cost, progress, performance or furnishing the Goods and Special Services.

- 1.5 The undersigned agrees to enter into a Subcontract Agreement with the CMAR (Felix Construction) for the proposed **Work Package #4 – Electrical** for the amount indicated in this Proposal Form and in accordance with the other terms and conditions of these Contract Documents.
- 1.6 This proposal shall remain subject to acceptance for a period of 120 calendar days after the day of Proposal opening. If the CMAR has not executed the Subcontract Agreement within the 120-calendar day period, the Proposer will have the right to negotiate any price increases with the CMAR.
- 1.7 The CMAR's decision on the Reservoir Clearing Construction Package selection will be final. By submitting a Proposal, Proposer waives any right to protest.

ARTICLE 2: STATE AND LOCAL SALES AND USE TAXES

- 2.1 Except as may be specifically provided to the contrary in any of the Contract Documents, the Proposal Price shall include all applicable international, federal, state and local transportation, privilege, occupation, and other applicable taxes to the work and all international, federal, state, and local taxes, contributions, and premiums imposed upon or measured, by Proposer's payroll. The CONSTRUCTION MANAGER shall not be responsible for any state or local sales, use or excise taxes. The OWNER is a governmental body whose purchase or purchases on behalf of the OWNER are exempt from state and local sales, use and excise taxes.

ARTICLE 3: LICENSES, PERMITS, AND INSPECTIONS

- 3.1 The CMAR will be responsible for adhering to SWPPP. The CMAR will be responsible to design, furnish, install, and protect and maintain the BMPs within the work areas. The PROSPER will have to follow and comply with the CMAR's plan.
- 3.2 The CMAR will acquire any necessary permits.

ARTICLE 4: SUMMARY OF WORK

- 4.1** You agree to furnish all equipment, material, labor, supervision, bonds and insurances for the **Work Package #4 – Electrical** per drawings and specifications noted below for the City of Keller Alta Vista Pump Station Expansion to 18 MGD Project including Addenda noted in Article 1.4 above.

Contract Drawings

- Construction Drawings

Contract Specifications

- Division 01 General Requirements
- Division 02 Existing Conditions
- Division 03 Concrete
- Division 04 Masonry
- Division 05 Metals
- Division 06 Woods, Plastics, and Composites
- Division 07 Thermal and Moisture Protection
- Division 08 Openings
- Division 09 Finishes
- Division 10 Specialties
- Division 22 Plumbing
- Division 23 HVAC
- Division 26 Electrical
- Division 31 Earthwork
- Division 32 Exterior Improvements
- Division 33 Utilities
- Division 40 Process Integration
- Division 41 Material Processing and Handling Equipment

Scope of Work includes, but not limited to:

- Electrical Package Complete
- Conduit and wire for Generator Flowmeter early out package
- Instrumentation and Controls (Infinite Services)
 - Furnish and Install RTU
 - Furnish Instrumentation and controls
 - Termination and RTU and Instrumentation
 - Programing

Specific exclusions to the scope of work:

1. Sales Tax for permanent materials incorporated into the project.

ARTICLE 5: CONTRACT PAYMENT STRUCTURE

This contract will be paid out as a Lump Sum Contract based on totals from Article 6: Proposal Form below. Payments will be made on a monthly basis. Monthly payment applications are to be submitted by the 20th of each month for work completed to that date with updated progress schedule and approved schedule of values.

ARTICLE 6: PROPOSAL FORM

#	Description	Quantity	Unit	Unit Price	Total Price
1	Complete Electrical Package	1	LS	\$1,231,287.00	\$1,231,287.00
2	Instrumentation and Controls	1	LS	\$78,695.00	\$78,695.00
Total Proposal					\$1,309,982.00

ARTICLE 7: PROPOSERS

Respectfully submitted,
By: Chad Bell

Title: VP North Texas Division

Address: Walker Industrial, LLC
1505 W. Walnut Hill Ln.
Irving, TX 75038

(SEAL)

If Proposer is Corporation Date: 12/12/2014

PROPOSAL FORM

(TO BE SUBMITTED IN A SEALED ENVELOPE)

City of Keller Alta Vista Pump Station Expansion to 18 GD

Work Package #4 - Electrical

Proposal of Clark Electric, Inc.

Address: Street/PO Box P.O. Box 851167

City: Mesquite,
Texas 75185

State/Zip: _

To: Felix Construction Company
Attn: Ryan Koontz
1313 Valwood Parkway, Suite 320
Carrollton, TX 75006

ARTICLE 1: Proposer's Declaration and Understanding

- 1.1 This Proposal is genuine and not made in the interest of or on behalf of any undisclosed person, firm, or corporation and is not submitted in conformity with any agreement or rules of any group, association organization or corporation; Proposer has not directly or indirectly induced or solicited any other Proposer to submit a false or sham Proposal; Proposer has not solicited or induced any person, firm, or corporation to refrain from proposing; and Proposer has not sought by collusion to obtain for itself any advantage over any other Proposer or over Owner.
- 1.2 The submission of the Proposal has been duly authorized by, and in all respects of, the Proposer. The undersigned declared that it is the Proposer or by holding the position below indicated is authorized to execute this proposal form on behalf of the Proposer and that all representations made on this form are true and accurate.
- 1.3 In submitting this Proposal, the Proposer certifies it is qualified to do business in the State of Texas as required by laws, regulations, and rules or, if allowed by statute, covenants to obtain such qualification prior to contract award.
- 1.4 In submitting this proposal, the Proposer makes all representations required by the Notice to Proposers and further warrants and represents that:
 - Proposer has examined copies of all Contract Documents, the Notice to Proposers, the Instructions to Proposers, and all of the Addenda (receipt of which is hereby acknowledged):

Addendum No.	Addendum Date	Signature Acknowledging Receipt
Tech # 1	8/20/18	Bully Miller
Q&A #1	8/17/18	Bully Miller
Tech # 2	8/24/18	Bully Miller
Q&A #2	8/24/18	Bully Miller
Tech # 3	8/27/18	Bully Miller

- Proposer has familiarized itself with the nature and extent of the Contract Documents, Work, site, and local conditions and Laws and Regulations that in any manner may affect cost, progress, performance or furnishing the Goods and Special Services.

- 1.5 The undersigned agrees to enter into a Subcontract Agreement with the CMAR (Felix Construction) for the proposed **Work Package #4 – Electrical** for the amount indicated in this Proposal Form and in accordance with the other terms and conditions of these Contract Documents.
- 1.6 This proposal shall remain subject to acceptance for a period of 120 calendar days after the day of Proposal opening. If the CMAR has not executed the Subcontract Agreement within the 120-calendar day period, the Proposer will have the right to negotiate any price increases with the CMAR.
- 1.7 The CMAR's decision on the Reservoir Clearing Construction Package selection will be final. By submitting a Proposal, Proposer waives any right to protest.

ARTICLE 2: STATE AND LOCAL SALES AND USE TAXES

- 2.1 Except as may be specifically provided to the contrary in any of the Contract Documents, the Proposal Price shall include all applicable international, federal, state and local transportation, privilege, occupation, and other applicable taxes to the work and all international, federal, state, and local taxes, contributions, and premiums imposed upon or measured, by Proposer's payroll. The CONSTRUCTION MANAGER shall not be responsible for any state or local sales, use or excise taxes. The OWNER is a governmental body whose purchase or purchases on behalf of the OWNER are exempt from state and local sales, use and excise taxes.

ARTICLE 3: LICENSES, PERMITS, AND INSPECTIONS

- 3.1 The CMAR will be responsible for adhering to SWPPP. The CMAR will be responsible to design, furnish, install, and protect and maintain the BMPs within the work areas. The PROSPER will have to follow and comply with the CMAR's plan.
- 3.2 The CMAR will acquire any necessary permits.

ARTICLE 6: PROPOSAL FORM

#	Description	Quantity	Unit	Unit Price	Total Price
1	Complete Electrical Package	1	LS	\$1,160,834.00	\$1,160,834.00
2	Instrumentation and Controls	1	LS	\$78,695.00	\$78,695.00
Total Proposal					\$1,239,529.00

ARTICLE 7: PROPOSERS

Respectfully submitted,

By: Josh Clark 

Title: Project Manager

Address: _____

246 South Collins Road Sunnyvale Texas

(SEAL)

If Proposer is Corporation Date: 8/28/2018

PROPOSAL FORM

(TO BE SUBMITTED IN A SEALED ENVELOPE)

City of Keller Alta Vista Pump Station Expansion to 18 GD

Work Package #4 - Electrical

Proposal of CF ELECTRIC, INC

Address: Street/PO Box 4901 TIM DONALD RD




City: JUSTIN, TX 76247

State/Zip: _

To: Felix Construction Company
Attn: Ryan Koontz
1313 Valwood Parkway, Suite 320
Carrollton, TX 75006

ARTICLE 1: Proposer's Declaration and Understanding

- 1.1 This Proposal is genuine and not made in the interest of or on behalf of any undisclosed person, firm, or corporation and is not submitted in conformity with any agreement or rules of any group, association organization or corporation; Proposer has not directly or indirectly induced or solicited any other Proposer to submit a false or sham Proposal; Proposer has not solicited or induced any person, firm, or corporation to refrain from proposing; and Proposer has not sought by collusion to obtain for itself any advantage over any other Proposer or over Owner.
- 1.2 The submission of the Proposal has been duly authorized by, and in all respects of, the Proposer. The undersigned declared that it is the Proposer or by holding the position below indicated is authorized to execute this proposal form on behalf of the Proposer and that all representations made on this form are true and accurate.
- 1.3 In submitting this Proposal, the Proposer certifies it is qualified to do business in the State of Texas as required by laws, regulations, and rules or, if allowed by stature, covenants to obtain such qualification prior to contract award.
- 1.4 In submitting this proposal, the Proposer makes all representations required by the Notice to Proposers and further warrants and represents that:
 - Proposer has examined copies of all Contract Documents, the Notice to Proposers, the Instructions to Proposers, and all of the Addenda (receipt of which is hereby acknowledged):

Addendum No.	Addendum Date	Signature Acknowledging Receipt
1	8/21/18	
2	8/24/18	
3	8/27/18	

- Proposer has familiarized itself with the nature and extent of the Contract Documents, Work, site, and local conditions and Laws and Regulations that in any manner may affect cost, progress, performance or furnishing the Goods and Special Services.

- 1.5 The undersigned agrees to enter into a Subcontract Agreement with the CMAR (Felix Construction) for the proposed **Work Package #4 – Electrical** for the amount indicated in this Proposal Form and in accordance with the other terms and conditions of these Contract Documents.
- 1.6 This proposal shall remain subject to acceptance for a period of 120 calendar days after the day of Proposal opening. If the CMAR has not executed the Subcontract Agreement within the 120-calendar day period, the Proposer will have the right to negotiate any price increases with the CMAR.
- 1.7 The CMAR's decision on the Reservoir Clearing Construction Package selection will be final. By submitting a Proposal, Proposer waives any right to protest.

ARTICLE 2: STATE AND LOCAL SALES AND USE TAXES

- 2.1 Except as may be specifically provided to the contrary in any of the Contract Documents, the Proposal Price shall include all applicable international, federal, state and local transportation, privilege, occupation, and other applicable taxes to the work and all international, federal, state, and local taxes, contributions, and premiums imposed upon or measured, by Proposer's payroll. The CONSTRUCTION MANAGER shall not be responsible for any state or local sales, use or excise taxes. The OWNER is a governmental body whose purchase or purchases on behalf of the OWNER are exempt from state and local sales, use and excise taxes.

ARTICLE 3: LICENSES, PERMITS, AND INSPECTIONS

- 3.1 The CMAR will be responsible for adhering to SWPPP. The CMAR will be responsible to design, furnish, install, and protect and maintain the BMPs within the work areas. The PROSPER will have to follow and comply with the CMAR's plan.
- 3.2 The CMAR will acquire any necessary permits.

ARTICLE 4: SUMMARY OF WORK

- 4.1 You agree to furnish all equipment, material, labor, supervision, bonds and insurances for the **Work Package #4 – Electrical** per drawings and specifications noted below for the City of Keller Alta Vista Pump Station Expansion to 18 MGD Project including Addenda noted in Article 1.4 above.

Contract Drawings

- Construction Drawings

Contract Specifications

- Division 01 General Requirements
- Division 02 Existing Conditions
- Division 03 Concrete
- Division 04 Masonry
- Division 05 Metals
- Division 06 Woods, Plastics, and Composites
- Division 07 Thermal and Moisture Protection
- Division 08 Openings
- Division 09 Finishes
- Division 10 Specialties
- Division 22 Plumbing
- Division 23 HVAC
- Division 26 Electrical
- Division 31 Earthwork
- Division 32 Exterior Improvements
- Division 33 Utilities
- Division 40 Process Integration
- Division 41 Material Processing and Handling Equipment

Scope of Work includes, but not limited to:

- Electrical Package Complete
- Conduit and wire for Generator Flowmeter early out package
- Instrumentation and Controls (Infinite Services)
 - Furnish and Install RTU
 - Furnish Instrumentation and controls
 - Termination and RTU and Instrumentation
 - Programing

Specific exclusions to the scope of work:

1. Sales Tax for permanent materials incorporated into the project.

ARTICLE 5: CONTRACT PAYMENT STRUCTURE

This contract will be paid out as a Lump Sum Contract based on totals from Article 6: Proposal Form below. Payments will be made on a monthly basis. Monthly payment applications are to be submitted by the 20th of each month for work completed to that date with updated progress schedule and approved schedule of values.

ARTICLE 6: PROPOSAL FORM

#	Description	Quantity	Unit	Unit Price	Total Price
1	Complete Electrical Package	1	LS	1,297,805.00	1,297,805.00
2	Instrumentation and Controls	1	LS	\$78,695.00	\$78,695.00
Total Proposal					1,376,500.00

ARTICLE 7: PROPOSERS

Respectfully submitted,

By: MARVIN MALY - CF ELECTRIC, INC.
 Title: PROJECT MANAGER / ESTIMATOR
 Address: 4901 TIM DONALD RD
JUSTIN, TX 76247

(SEAL)

If Proposer is Corporation Date: 2001



PROPOSAL FORM

(TO BE SUBMITTED IN A SEALED ENVELOPE)

City of Keller Alta Vista Pump Station Expansion to 18 GD

Work Package #4 - Electrical

Proposal of WHF Electrical Contractors, Inc.

Address: Street/PO Box 2903 Capital Street

City: Wylie, TX 75098

State/Zip:

To: Felix Construction Company
Attn: Ryan Koontz
1313 Valwood Parkway, Suite 320
Carrollton, TX 75006

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- 1.2 The submission of the Proposal has been duly authorized by, and in all respects of, the Proposer. The undersigned declared that it is the Proposer or by holding the position below indicated is authorized to execute this proposal form on behalf of the Proposer and that all representations made on this form are true and accurate.
- 1.3 In submitting this Proposal, the Proposer certifies it is qualified to do business in the State of Texas as required by laws, regulations, and rules or, if allowed by statute, covenants to obtain such qualification prior to contract award.
- 1.4 In submitting this proposal, the Proposer makes all representations required by the Notice to Proposers and further warrants and represents that:
 - Proposer has examined copies of all Contract Documents, the Notice to Proposers, the Instructions to Proposers, and all of the Addenda (receipt of which is hereby acknowledged):

Addendum No.	Addendum Date	Signature Acknowledging Receipt
ONE	8/20/18	Charles Mills
TWO	8/24/18	Charles Lee
THREE	8/27/18	Charles Lee

- Proposer has familiarized itself with the nature and extent of the Contract Documents, Work, site, and local conditions and Laws and Regulations that in any manner may affect cost, progress, performance or furnishing the Goods and Special Services.

- 1.5 The undersigned agrees to enter into a Subcontract Agreement with the CMAR (Felix Construction) for the proposed **Work Package #4 – Electrical** for the amount indicated in this Proposal Form and in accordance with the other terms and conditions of these Contract Documents.
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- Division 10 Specialties
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- Division 31 Earthwork
- Division 32 Exterior Improvements
- Division 33 Utilities
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- Electrical Package Complete
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Specific exclusions to the scope of work:

1. Sales Tax for permanent materials incorporated into the project.

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This contract will be paid out as a Lump Sum Contract based on totals from Article 6: Proposal Form below. Payments will be made on a monthly basis. Monthly payment applications are to be submitted by the 20th of each month for work completed to that date with updated progress schedule and approved schedule of values.

ARTICLE 6: PROPOSAL FORM

#	Description	Quantity	Unit	Unit Price	Total Price
1	Complete Electrical Package	1	LS	\$ 1,341,305.00	\$ 1,341,305.00
2	Instrumentation and Controls	1	LS	\$78,695.00	\$78,695.00
Total Proposal					\$ 1,420,000.00

ARTICLE 7: PROPOSERS

Respectfully submitted,

By: Charles Miller

Title: Vice President

Address: 2903 Capital Street
Wylie, TX 75098

(SEAL)

If Proposer is Corporation Date: August 28, 2018

Itemized General Conditions with Definitions of Cost Categories

1. **Mobilization/Demobilization** - Activation of a contractor's physical and manpower resources for transfer to a construction site until the completion of the contract
2. **Temporary Facilities** - The construction offices, utilities including water and electricity, etc., and infrastructures including access way to be used during the construction activities.
3. **Insurance, Fees** - financial guaranty of Construction
4. **Project Superintendent** – 9 months of a Superintendent
5. **Project Manager** – 6 months of a Project Manager
6. **Project Engineer** – 2 months of a Project Engineer

Description of Estimated Cost of Work

The estimated cost of work for the Final GMP was derived by creating Early Work Packages 1-4, Work Packages 1 – 4, General Requirements, General Conditions, Fee, Bonds, Insurance, Contingencies, and Allowances.

Early Work Packages 1-4 were selected by the CMAR, Engineer and City of Keller to be pre-purchased process equipment due to their long manufacturing and delivery time. This collaboration accelerated the schedule and delivery of a complete working Pump Station. The pre-purchased commodities are described below:

Early Work Package #1 – Flow Meter

Early Work Package #2 – Horizontal End Suction Centrifugal Pumps

Early Work Package #3 – Packaged Engine Generator

Early Work Package #4 – Katy Road Generator

The CMAR contacted each specified manufactures/distributor, per engineer specification, to submit a price on their piece of equipment. The lowest qualified submitted price was selected by the CMAR with the engineer and City of Keller's approval.

The CMAR created Work Package 1-4 to encourage participation from other general contractors. The work packages were a "Competitive Sealed Proposal" so that the construction team would result in the best qualified contractor. Once the work packages were approved, the CMAR publicly advertised them on various websites and in the local newspaper. The scope of each Work Package includes:

Work Package #1 – Civil/Demo

- Demo of existing pump station
- Removal of existing pavement
- Over excavation and backfill of new pump station
- Removal and replacement of chain link fence
- Removal of existing 20" discharge piping and vault
- Removal of existing suction piping

Work Package #2 – Building

- Generator Pad
- Pump Station Foundation
- Pump Station sidewalk including the doorway approach slabs
- Transformer Pad
- Pump Support Slabs
- Valve Support Pads
- Equipment Housekeeping Pads
- HVAC Equipment Pads
- Pump Station construction complete minus electrical conduit and wire
- New Pavement including excavation and subgrade preparation on both East and West sides of Pump Stations

Work Package #3 – Mechanical

- Suction piping complete
- Discharge piping complete
- Tie-in's #1 & #2
- Install pumps
- Flowmeter valve vault and piping complete

Work Package #4 – Electrical

- Electrical Complete including Instrumentation and Controls.

After each Work Package Proposal was received at the specific time and place per the instruction to proposers. The Engineer, City of Keller and CMAR (where allowed) reviewed and graded the competitive sealed proposal for each individual Work Package. The results of each work package were publicly announced and the “Best Qualified” contractor was selected.

The Final GMP was created using the lowest qualified price from Early Work Package 1-4, the selected “Best Qualified” contractors pricing for Work Packages 1-4, negotiated General Requirements, General Conditions, Fee, Bonds, Contingencies, and Allowances.



Keller - Alta Vista Pump Station



ID	Task Name	Duration	Start	Finish	Baseline Start	Baseline Finish	Predecessors	017 Sep	Qtr 4, 2017 Oct Nov Dec	Qtr 1, 2018 Jan Feb Mar	Qtr 2, 2018 Apr May Jun	Qtr 3, 2018 Jul Aug Sep	Qtr 4, 2018 Oct Nov Dec	Qtr 1, 2019 Jan Feb Mar	Qtr 2, 2019 Apr May Jun	Qtr 3, 2019 Jul Aug Sep	Qtr 4, 2019 Oct Nov Dec
1	Notice of Award	0 days	Fri 10/27/17	Fri 10/27/17	Fri 10/27/17	Fri 10/27/17			10/27								
2	Notice to Proceed	0 days	Thu 11/30/17	Thu 11/30/17	Thu 11/30/17	Thu 11/30/17			11/30								
3	Pre-Construction Phase	263 days	Thu 11/30/17	Mon 12/10/18	Thu 11/30/17	Thu 9/13/18	2										
4	Early Out Package #1 - Flowmeter Procurement	1 day	Wed 3/28/18	Wed 3/28/18	Wed 3/28/18	Wed 3/28/18											
5	Submit Pricing To City of Keller	1 day	Wed 3/28/18	Wed 3/28/18	Wed 3/28/18	Wed 3/28/18					3/28	3/28					
6	Early Out Package #2 - Procurement of Pumps	28 days	Tue 6/5/18	Fri 7/13/18	Thu 4/5/18	Thu 5/31/18											
7	Development of Bid Package	7 days	Tue 6/5/18	Wed 6/13/18	Thu 4/5/18	Wed 5/2/18	20					6/5	6/13				
8	Advertise Pumps Package	21 days	Thu 6/14/18	Fri 7/13/18	Thu 5/3/18	Thu 5/31/18	7					6/14	7/13				
9	Early Out Package #3 - Procurement of Generator	19 days	Tue 6/5/18	Fri 6/29/18	Thu 4/5/18	Thu 5/31/18											
10	Development of Bid Package	7 days	Tue 6/5/18	Wed 6/13/18	Thu 4/5/18	Wed 5/2/18	20					6/5	6/13				
11	Advertise Generator Package	12 days	Thu 6/14/18	Fri 6/29/18	Thu 5/3/18	Thu 5/31/18	10					6/14	6/29				
12	Early Out Package #4 - Katy Road Generator	57 days	Wed 9/19/18	Mon 12/10/18	Thu 4/5/18	Thu 5/31/18											
13	Submit Packager to Keller	1 day	Wed 9/19/18	Wed 9/19/18	NA	NA								9/19	9/19		
14	Approval of Package by Keller	6 days	Thu 9/20/18	Thu 9/27/18	NA	NA	13							9/20	9/27		
15	Procurement of Generator	50 days	Fri 9/28/18	Mon 12/10/18	NA	NA	14							9/28	12/10		
16	75% Design Review	133 days	Thu 11/30/17	Tue 6/5/18	Thu 11/30/17	Fri 6/1/18											
17	Felix to Provide Design Review Comments	84 days	Thu 11/30/17	Tue 3/27/18	Thu 11/30/17	Tue 3/27/18	2		11/30	3/27							
18	Design Review Workshop	1 day	Thu 3/29/18	Thu 3/29/18	Thu 3/29/18	Thu 3/29/18	17FS+1 day				3/29	3/29					
19	Freeze and Nichols Implement Design Changes - Develop 100% Plans and Specs	47 days	Fri 3/30/18	Tue 6/5/18	Fri 3/30/18	Fri 6/1/18	18					3/30	6/5				
20	Issue For Construction Plans and Specifications	1 day	Wed 6/6/18	Wed 6/6/18	Mon 6/4/18	Mon 6/4/18	19					6/6	6/6				
21	City of Fort Worth Plan Review	32 days	Tue 6/19/18	Thu 8/2/18	Tue 6/5/18	Tue 7/17/18	20					6/19	8/2				
22	TCEQ Plan Review	60 days	Mon 7/23/18	Mon 10/15/18	Tue 6/5/18	Tue 8/28/18	20					7/23	10/15				

Project: 1859 - Keller Alta Vista PS Date: Mon 10/1/18	Baseline		Rolled Up Task		External Tasks		Manual Task		Finish-only	
	Task		Rolled Up Critical Task		Project Summary		Duration-only		External Tasks	
	Critical Task		Rolled Up Milestone		Group By Summary		Manual Summary Rollup		External Milestone	
	Milestone		Rolled Up Progress		Inactive Milestone		Manual Summary		Progress	
	Summary		Split		Inactive Summary		Start-only		Deadline	



Keller - Alta Vista Pump Station



ID		Task Name	Duration	Start	Finish	Baseline Start	Baseline Finish	Predecessors	Q1 2017	Q4 2017	Q1 2018	Q2 2018	Q3 2018	Q4 2018	Q1 2019	Q2 2019	Q3 2019	Q4 2019																
									Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
23		GMP Developments	104 days	Thu 6/7/18	Thu 11/1/18	Tue 6/5/18	Thu 9/6/18																											
24	✓	Amendment to Contract - Bids Prior to GMP	3 days	Thu 6/7/18	Mon 6/11/18	NA	NA	20						6/7					6/11															
25		FINAL GMP	101 days	Tue 6/12/18	Thu 11/1/18	Tue 6/5/18	Thu 9/6/18	24																										
26	✓	Demo, Civil and Exterior Improvements	65 days	Tue 6/12/18	Wed 9/12/18	Tue 6/5/18	Wed 7/18/18																											
27	✓	Develop Scope	38 days	Tue 6/12/18	Fri 8/3/18	Tue 6/5/18	Mon 6/18/18							6/12					8/3															
28	✓	Advertise Demo & Civil Package	26 days	Fri 8/3/18	Tue 9/11/18	Tue 6/19/18	Tue 7/17/18	27						8/3					9/11															
29	✓	Bid Opening	1 day	Wed 9/12/18	Wed 9/12/18	Wed 7/18/18	Wed 7/18/18	28						9/12					9/12															
30	✓	Mechanical Piping and Pump Installation	56 days	Tue 6/12/18	Wed 8/29/18	Tue 6/5/18	Wed 7/25/18																											
31	✓	Develop Scope	38 days	Tue 6/12/18	Fri 8/3/18	Tue 6/5/18	Mon 6/25/18							6/12					8/3															
32	✓	Advertise Mechanical Package	17 days	Fri 8/3/18	Tue 8/28/18	Tue 6/26/18	Tue 7/24/18	31						8/3					8/28															
33	✓	Bid Opening	1 day	Wed 8/29/18	Wed 8/29/18	Wed 7/25/18	Wed 7/25/18	32						8/29					8/29															
34	✓	Electrical Bid Package	55 days	Tue 6/12/18	Tue 8/28/18	Tue 6/5/18	Wed 7/25/18																											
35	✓	Develop Scope	38 days	Tue 6/12/18	Fri 8/3/18	Tue 6/5/18	Mon 6/25/18							6/12					8/3															
36	✓	Advertise Electrical Package	16 days	Fri 8/3/18	Mon 8/27/18	Tue 6/26/18	Tue 7/24/18	35						8/3					8/27															
37	✓	Bid Opening	1 day	Tue 8/28/18	Tue 8/28/18	Wed 7/25/18	Wed 7/25/18	36						8/28					8/28															
38	✓	Building Bid Package	64 days	Tue 6/12/18	Tue 9/11/18	Tue 6/5/18	Wed 8/1/18																											
39	✓	Develop Scope	38 days	Tue 6/12/18	Fri 8/3/18	Tue 6/5/18	Mon 7/2/18							6/12					8/3															
40	✓	Advertise Building Package	25 days	Fri 8/3/18	Mon 9/10/18	Tue 7/3/18	Tue 7/31/18	39						8/3					9/10															
41	✓	Bid Opening	1 day	Tue 9/11/18	Tue 9/11/18	Wed 8/1/18	Wed 8/1/18	40						9/11					9/11															
42	✓	Develop FINAL GMP	5 days	Thu 9/13/18	Wed 9/19/18	Thu 8/2/18	Wed 8/8/18	29,33,37,41						9/13					9/19															
43	✓	Review FINAL GMP	5 days	Thu 9/20/18	Wed 9/26/18	Thu 8/9/18	Wed 8/15/18	42						9/20					9/26															
44	✓	Submit Final GMP - Keller Approval	1 day	Thu 9/27/18	Thu 9/27/18	Thu 8/16/18	Thu 9/6/18	43						9/27					9/27															
45		Review and Negotiate Final GMP	10 days	Fri 9/28/18	Thu 10/11/18	NA	NA	44						9/28					10/11															

Project: 1859 - Keller Alta Vista PS
Date: Mon 10/1/18

Baseline

Task

Critical Task

Milestone

Summary

Rolled Up Task

Rolled Up Critical Task

Rolled Up Milestone

Rolled Up Progress

Split

External Tasks

Project Summary

Group By Summary

Inactive Milestone

Inactive Summary

Manual Task

Duration-only

Manual Summary Rollup

Manual Summary

Start-only

Finish-only

External Tasks

External Milestone

Progress

Deadline



Keller - Alta Vista Pump Station



ID		Task Name	Duration	Start	Finish	Baseline Start	Baseline Finish	Predecessors	Q1 2017	Q4 2017	Q1 2018	Q2 2018	Q3 2018	Q4 2018	Q1 2019	Q2 2019	Q3 2019	Q4 2019
46		City Council Apporval	15 days	Fri 10/12/18	Thu 11/1/18	NA	NA	45	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
47		Notice to Proceed - Construciton Phase	0 days	Thu 11/1/18	Thu 11/1/18	Thu 9/13/18	Thu 9/13/18	46						10/12	11/1			
48		Submittals	321 days	Tue 4/3/18	Mon 7/8/19	Tue 4/10/18	Mon 6/3/19	1										
49		City of Fort Worth Building Permit	30 days	Mon 9/10/18	Fri 10/19/18	NA	NA							9/10	10/19			
50		Early Out Package #1 - Flowmeter Procurement	321 days	Tue 4/3/18	Mon 7/8/19	Tue 4/10/18	Mon 6/3/19											
51		Issue PO to Vendor	1 day	Tue 4/3/18	Thu 4/5/18	Tue 4/10/18	Tue 4/10/18	5FS+5 days						4/3	4/5			
52		Vendor Submittal Prep Time	10 days	Fri 4/6/18	Thu 4/19/18	Wed 4/11/18	Tue 4/24/18	51						4/6	4/19			
53		Felix In-House Review	5 days	Fri 4/20/18	Thu 4/26/18	Wed 4/25/18	Tue 5/1/18	52						4/20	4/26			
54		City / Engineer Review	34 days	Fri 4/27/18	Thu 6/14/18	Wed 5/2/18	Tue 5/22/18	53						4/27	6/14			
55		Release for Fabrication	1 day	Tue 6/19/18	Tue 6/19/18	Wed 5/23/18	Wed 5/23/18	54						6/19	6/19			
56		Manufacture & Deliver	15 days	Wed 6/20/18	Wed 7/11/18	Thu 5/24/18	Thu 6/28/18	55						6/20	7/11			
57		Material Available for Installation	0 days	Wed 7/11/18	Wed 7/11/18	Thu 6/28/18	Thu 6/28/18	56							7/11			
58		Vendor O&M Prep Time	64 days	Wed 6/20/18	Wed 9/19/18	Thu 5/24/18	Fri 7/20/18	55						6/20	9/19			
59		Felix In-House O&M Review	10 days	Thu 9/20/18	Wed 10/3/18	Mon 7/23/18	Fri 8/3/18	58						9/20	10/3			
60		City/Engineer O&M Review	15 days	Thu 10/4/18	Wed 10/24/18	Mon 8/6/18	Fri 8/24/18	59						10/4	10/24			
61		Address O&M Review Comments	25 days	Thu 10/25/18	Fri 11/30/18	Mon 8/27/18	Mon 10/1/18	60						10/25	11/30			
62		Submit Final O&M	5 days	Tue 7/2/19	Mon 7/8/19	Tue 5/28/19	Mon 6/3/19	61,611								7/2	7/8	
63		Division 01 - General Requirements	36 days	Fri 9/28/18	Fri 11/16/18	Thu 9/13/18	Thu 11/1/18	44										
64		In-House Submittal Preparation Time	20 days	Fri 9/28/18	Thu 10/25/18	Thu 9/13/18	Wed 10/10/18							9/28	10/25			
65		Submit to Owner / Engineer	1 day	Fri 10/26/18	Fri 10/26/18	Thu 10/11/18	Thu 10/11/18	64						10/26	10/26			
66		City / Engineer Review	15 days	Mon 10/29/18	Fri 11/16/18	Fri 10/12/18	Thu 11/1/18	65						10/29	11/16			
67		Division 02 - Site Conditions	36 days	Fri 9/28/18	Fri 11/16/18	Thu 7/19/18	Fri 10/5/18	44										
68		02 41 00 - Demolition	36 days	Fri 9/28/18	Fri 11/16/18	Thu 7/19/18	Fri 10/5/18											

Project: 1859 - Keller Alta Vista PS
Date: Mon 10/1/18

Baseline

Task

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Rolled Up Task

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Manual Task

Duration-only

Manual Summary Rollup

Manual Summary

Start-only

Finish-only

External Tasks

External Milestone

Progress

Deadline



Keller - Alta Vista Pump Station



ID	Task Name	Duration	Start	Finish	Baseline Start	Baseline Finish	Predecessors	017 Sep	Qtr 4, 2017 Oct Nov Dec	Qtr 1, 2018 Jan Feb Mar	Qtr 2, 2018 Apr May Jun	Qtr 3, 2018 Jul Aug Sep	Qtr 4, 2018 Oct Nov Dec	Qtr 1, 2019 Jan Feb Mar	Qtr 2, 2019 Apr May Jun	Qtr 3, 2019 Jul Aug Sep	Qtr 4, 2019 Oct Nov Dec
69	Issue PO to Vendor	5 days	Fri 9/28/18	Thu 10/4/18	Thu 7/19/18	Wed 7/25/18							9/28 10/4				
70	Vendor Submittal Prep Time	10 days	Fri 10/5/18	Thu 10/18/18	Thu 7/26/18	Wed 8/15/18	69						10/5 10/18				
71	Felix In-House Review	5 days	Fri 10/19/18	Thu 10/25/18	Thu 8/16/18	Wed 8/22/18	70						10/19 10/25				
72	City / Engineer Review	10 days	Fri 10/26/18	Thu 11/8/18	Thu 8/23/18	Thu 9/13/18	71						10/26 11/8				
73	Release for Fabrication	1 day	Fri 11/9/18	Fri 11/9/18	Fri 9/14/18	Fri 9/14/18	72						11/9 11/9				
74	Manufacture & Deliver	5 days	Mon 11/12/18	Fri 11/16/18	Mon 9/17/18	Fri 10/5/18	73						11/12 11/16				
75	Material Available for Installation	0 days	Fri 11/16/18	Fri 11/16/18	Fri 10/5/18	Fri 10/5/18	74						11/16				
76	Division 03 - Concrete	61 days	Fri 9/28/18	Thu 12/27/18	Thu 8/2/18	Fri 11/9/18	44										
77	03 30 00 - Cast-In-Place Concrete	42 days	Fri 9/28/18	Wed 11/28/18	Thu 8/2/18	Fri 10/19/18											
78	Issue PO to Vendor	5 days	Fri 9/28/18	Thu 10/4/18	Thu 8/2/18	Wed 8/8/18							9/28 10/4				
79	Vendor Submittal Prep Time	15 days	Fri 10/5/18	Thu 10/25/18	Thu 8/9/18	Thu 9/6/18	78						10/5 10/25				
80	Felix In-House Review	5 days	Fri 10/26/18	Thu 11/1/18	Fri 9/7/18	Thu 9/13/18	79						10/26 11/1				
81	City / Engineer Review	15 days	Fri 11/2/18	Mon 11/26/18	Fri 9/14/18	Thu 10/4/18	80						11/2 11/26				
82	Release for Fabrication	1 day	Tue 11/27/18	Tue 11/27/18	Fri 10/5/18	Fri 10/5/18	81						11/27 11/27				
83	Manufacture & Deliver	1 day	Wed 11/28/18	Wed 11/28/18	Mon 10/8/18	Fri 10/19/18	82						11/28 11/28				
84	Material Available for Installation	0 days	Wed 11/28/18	Wed 11/28/18	Fri 10/19/18	Fri 10/19/18	83						11/28				
85	03 30 00 - Rebar Shop Drawings	61 days	Fri 9/28/18	Thu 12/27/18	Thu 8/2/18	Fri 11/9/18											
86	Issue PO to Vendor	5 days	Fri 9/28/18	Thu 10/4/18	Thu 8/2/18	Wed 8/8/18							9/28 10/4				
87	Vendor Submittal Prep Time	20 days	Fri 10/5/18	Thu 11/1/18	Thu 8/9/18	Thu 9/20/18	86						10/5 11/1				
88	Felix In-House Review	5 days	Fri 11/2/18	Thu 11/8/18	Fri 9/21/18	Thu 9/27/18	87						11/2 11/8				
89	City / Engineer Review	15 days	Fri 11/9/18	Mon 12/3/18	Fri 9/28/18	Thu 10/18/18	88						11/9 12/3				
90	Release for Fabrication	1 day	Tue 12/4/18	Tue 12/4/18	Fri 10/19/18	Fri 10/19/18	89						12/4 12/4				
91	Manufacture & Deliver	15 days	Wed 12/5/18	Thu 12/27/18	Mon 10/22/18	Fri 11/9/18	90						12/5 12/27				

Project: 1859 - Keller Alta Vista PS
Date: Mon 10/1/18

Baseline

Task

Critical Task

Milestone

Summary

Rolled Up Task

Rolled Up Critical Task

Rolled Up Milestone

Rolled Up Progress

Split

External Tasks

Project Summary

Group By Summary

Inactive Milestone

Inactive Summary

Manual Task

Duration-only

Manual Summary Rollup

Manual Summary

Start-only

Finish-only

External Tasks

External Milestone

Progress

Deadline



Keller - Alta Vista Pump Station



ID	Task Name	Duration	Start	Finish	Baseline Start	Baseline Finish	Predecessors	017 Sep	Qtr 4, 2017 Oct Nov Dec	Qtr 1, 2018 Jan Feb Mar	Qtr 2, 2018 Apr May Jun	Qtr 3, 2018 Jul Aug Sep	Qtr 4, 2018 Oct Nov Dec	Qtr 1, 2019 Jan Feb Mar	Qtr 2, 2019 Apr May Jun	Qtr 3, 2019 Jul Aug Sep	Qtr 4, 2019 Oct Nov Dec
92	Material Available for Installation	0 days	Thu 12/27/18	Thu 12/27/18	Fri 11/9/18	Fri 11/9/18	91						12/27				
93	Division 04 - Masonry	86 days	Fri 9/28/18	Fri 2/1/19	Thu 8/2/18	Tue 12/4/18	44										
94	04 22 00 - Concrete Unit Masonry	76 days	Fri 9/28/18	Fri 1/18/19	Thu 8/2/18	Fri 11/16/18											
95	Issue PO to Vendor	5 days	Fri 9/28/18	Thu 10/4/18	Thu 8/2/18	Wed 8/8/18						9/28	10/4				
96	Vendor Submittal Prep Time	25 days	Fri 10/5/18	Thu 11/8/18	Thu 8/9/18	Thu 9/13/18	95					10/5	11/8				
97	Felix In-House Review	5 days	Fri 11/9/18	Thu 11/15/18	Fri 9/14/18	Thu 9/20/18	96					11/9	11/15				
98	City / Engineer Review	15 days	Fri 11/16/18	Mon 12/10/18	Fri 9/21/18	Thu 10/11/18	97					11/16	12/10				
99	Release for Fabrication	1 day	Tue 12/11/18	Tue 12/11/18	Fri 10/12/18	Fri 10/12/18	98					12/11	12/11				
100	Manufacture & Deliver	25 days	Wed 12/12/18	Fri 1/18/19	Mon 10/15/18	Fri 11/16/18	99					12/12	1/18				
101	Material Available for Installation	0 days	Fri 1/18/19	Fri 1/18/19	Fri 11/16/18	Fri 11/16/18	100						1/18				
102	04 81 05 - Flexible Embed Through-Wall Flashing System	86 days	Fri 9/28/18	Fri 2/1/19	Thu 8/2/18	Tue 12/4/18											
103	Issue PO to Vendor	5 days	Fri 9/28/18	Thu 10/4/18	Thu 8/2/18	Wed 8/8/18						9/28	10/4				
104	Vendor Submittal Prep Time	30 days	Fri 10/5/18	Thu 11/15/18	Thu 8/9/18	Thu 9/20/18	103					10/5	11/15				
105	Felix In-House Review	5 days	Fri 11/16/18	Mon 11/26/18	Fri 9/21/18	Thu 9/27/18	104					11/16	11/26				
106	City / Engineer Review	15 days	Tue 11/27/18	Mon 12/17/18	Fri 9/28/18	Thu 10/18/18	105					11/27	12/17				
107	Release for Fabrication	1 day	Tue 12/18/18	Tue 12/18/18	Fri 10/19/18	Fri 10/19/18	106					12/18	12/18				
108	Manufacture & Deliver	30 days	Wed 12/19/18	Fri 2/1/19	Mon 10/22/18	Tue 12/4/18	107					12/19	2/1				
109	Material Available for Installation	0 days	Fri 2/1/19	Fri 2/1/19	Tue 12/4/18	Tue 12/4/18	108						2/1				
110	Division 05 - Metals	76 days	Fri 9/28/18	Fri 1/18/19	Thu 8/2/18	Fri 11/16/18	44										
111	05 05 13 - Galvanizing	76 days	Fri 9/28/18	Fri 1/18/19	Thu 8/2/18	Fri 11/16/18											
112	Issue PO to Vendor	5 days	Fri 9/28/18	Thu 10/4/18	Thu 8/2/18	Wed 8/8/18						9/28	10/4				
113	Vendor Submittal Prep Time	20 days	Fri 10/5/18	Thu 11/1/18	Thu 8/9/18	Thu 9/6/18	112					10/5	11/1				
114	Felix In-House Review	5 days	Fri 11/2/18	Thu 11/8/18	Fri 9/7/18	Thu 9/13/18	113					11/2	11/8				

Project: 1859 - Keller Alta Vista PS
Date: Mon 10/1/18

Baseline

Task

Critical Task

Milestone

Summary

Rolled Up Task

Rolled Up Critical Task

Rolled Up Milestone

Rolled Up Progress

Split

External Tasks

Project Summary

Group By Summary

Inactive Milestone

Inactive Summary

Manual Task

Duration-only

Manual Summary Rollup

Manual Summary

Start-only

Finish-only

External Tasks

External Milestone

Progress

Deadline



Keller - Alta Vista Pump Station



ID	Task Name	Duration	Start	Finish	Baseline Start	Baseline Finish	Predecessors	017 Sep	Qtr 4, 2017 Oct Nov Dec	Qtr 1, 2018 Jan Feb Mar	Qtr 2, 2018 Apr May Jun	Qtr 3, 2018 Jul Aug Sep	Qtr 4, 2018 Oct Nov Dec	Qtr 1, 2019 Jan Feb Mar	Qtr 2, 2019 Apr May Jun	Qtr 3, 2019 Jul Aug Sep	Qtr 4, 2019 Oct Nov Dec
115	City / Engineer Review	15 days	Fri 11/9/18	Mon 12/3/18	Fri 9/14/18	Thu 10/4/18	114						11/9 12/3				
116	Release for Fabrication	1 day	Tue 12/4/18	Tue 12/4/18	Fri 10/5/18	Fri 10/5/18	115						12/4 12/4				
117	Manufacture & Deliver	30 days	Wed 12/5/18	Fri 1/18/19	Mon 10/8/18	Fri 11/16/18	116						12/5 1/18				
118	Material Available for Installation	0 days	Fri 1/18/19	Fri 1/18/19	Fri 11/16/18	Fri 11/16/18	117						1/18				
119	05 50 00 - Metal Fabrications	76 days	Fri 9/28/18	Fri 1/18/19	Thu 8/2/18	Fri 11/16/18											
120	Issue PO to Vendor	5 days	Fri 9/28/18	Thu 10/4/18	Thu 8/2/18	Wed 8/8/18							9/28 10/4				
121	Vendor Submittal Prep Time	20 days	Fri 10/5/18	Thu 11/1/18	Thu 8/9/18	Thu 9/6/18	120						10/5 11/1				
122	Felix In-House Review	5 days	Fri 11/2/18	Thu 11/8/18	Fri 9/7/18	Thu 9/13/18	121						11/2 11/8				
123	City / Engineer Review	15 days	Fri 11/9/18	Mon 12/3/18	Fri 9/14/18	Thu 10/4/18	122						11/9 12/3				
124	Release for Fabrication	1 day	Tue 12/4/18	Tue 12/4/18	Fri 10/5/18	Fri 10/5/18	123						12/4 12/4				
125	Manufacture & Deliver	30 days	Wed 12/5/18	Fri 1/18/19	Mon 10/8/18	Fri 11/16/18	124						12/5 1/18				
126	Material Available for Installation	0 days	Fri 1/18/19	Fri 1/18/19	Fri 11/16/18	Fri 11/16/18	125						1/18				
127	05 52 13 - Pipe and Tube Railings	76 days	Fri 9/28/18	Fri 1/18/19	Thu 8/2/18	Fri 11/16/18											
128	Issue PO to Vendor	5 days	Fri 9/28/18	Thu 10/4/18	Thu 8/2/18	Wed 8/8/18							9/28 10/4				
129	Vendor Submittal Prep Time	25 days	Fri 10/5/18	Thu 11/8/18	Thu 8/9/18	Thu 9/13/18	128						10/5 11/8				
130	Felix In-House Review	5 days	Fri 11/9/18	Thu 11/15/18	Fri 9/14/18	Thu 9/20/18	129						11/9 11/15				
131	City / Engineer Review	15 days	Fri 11/16/18	Mon 12/10/18	Fri 9/21/18	Thu 10/11/18	130						11/16 12/10				
132	Release for Fabrication	1 day	Tue 12/11/18	Tue 12/11/18	Fri 10/12/18	Fri 10/12/18	131						12/11 12/11				
133	Manufacture & Deliver	25 days	Wed 12/12/18	Fri 1/18/19	Mon 10/15/18	Fri 11/16/18	132						12/12 1/18				
134	Material Available for Installation	0 days	Fri 1/18/19	Fri 1/18/19	Fri 11/16/18	Fri 11/16/18	133						1/18				
135	Division 06 - Carpentry	61 days	Fri 9/28/18	Thu 12/27/18	Thu 8/2/18	Fri 10/26/18	44										
136	06 10 00 - Rough Carpentry	61 days	Fri 9/28/18	Thu 12/27/18	Thu 8/2/18	Fri 10/26/18											
137	Issue PO to Vendor	5 days	Fri 9/28/18	Thu 10/4/18	Thu 8/2/18	Wed 8/8/18							9/28 10/4				

Project: 1859 - Keller Alta Vista PS
Date: Mon 10/1/18

Baseline

Task

Critical Task

Milestone

Summary

Rolled Up Task

Rolled Up Critical Task

Rolled Up Milestone

Rolled Up Progress

Split

External Tasks

Project Summary

Group By Summary

Inactive Milestone

Inactive Summary

Manual Task

Duration-only

Manual Summary Rollup

Manual Summary

Start-only

Finish-only

External Tasks

External Milestone

Progress

Deadline



Keller - Alta Vista Pump Station



ID	Task Name	Duration	Start	Finish	Baseline Start	Baseline Finish	Predecessors	017 Sep	Qtr 4, 2017 Oct Nov Dec	Qtr 1, 2018 Jan Feb Mar	Qtr 2, 2018 Apr May Jun	Qtr 3, 2018 Jul Aug Sep	Qtr 4, 2018 Oct Nov Dec	Qtr 1, 2019 Jan Feb Mar	Qtr 2, 2019 Apr May Jun	Qtr 3, 2019 Jul Aug Sep	Qtr 4, 2019 Oct Nov Dec
138	Vendor Submittal Prep Time	20 days	Fri 10/5/18	Thu 11/1/18	Thu 8/9/18	Thu 9/6/18	137					10/5	11/1				
139	Felix In-House Review	5 days	Fri 11/2/18	Thu 11/8/18	Fri 9/7/18	Thu 9/13/18	138					11/2	11/8				
140	City / Engineer Review	15 days	Fri 11/9/18	Mon 12/3/18	Fri 9/14/18	Thu 10/4/18	139					11/9	12/3				
141	Release for Fabrication	1 day	Tue 12/4/18	Tue 12/4/18	Fri 10/5/18	Fri 10/5/18	140					12/4	12/4				
142	Manufacture & Deliver	15 days	Wed 12/5/18	Thu 12/27/18	Mon 10/8/18	Fri 10/26/18	141					12/5	12/27				
143	Material Available for Installation	0 days	Thu 12/27/18	Thu 12/27/18	Fri 10/26/18	Fri 10/26/18	142						12/27				
144	Division 07 - Thermal and Moisture Protection	76 days	Fri 9/28/18	Fri 1/18/19	Thu 8/2/18	Fri 11/16/18	44										
145	07 21 00 - Thermal Insulation	76 days	Fri 9/28/18	Fri 1/18/19	Thu 8/2/18	Fri 11/16/18											
146	Issue PO to Vendor	5 days	Fri 9/28/18	Thu 10/4/18	Thu 8/2/18	Wed 8/8/18						9/28	10/4				
147	Vendor Submittal Prep Time	20 days	Fri 10/5/18	Thu 11/1/18	Thu 8/9/18	Thu 9/6/18	146					10/5	11/1				
148	Felix In-House Review	5 days	Fri 11/2/18	Thu 11/8/18	Fri 9/7/18	Thu 9/13/18	147					11/2	11/8				
149	City / Engineer Review	15 days	Fri 11/9/18	Mon 12/3/18	Fri 9/14/18	Thu 10/4/18	148					11/9	12/3				
150	Release for Fabrication	1 day	Tue 12/4/18	Tue 12/4/18	Fri 10/5/18	Fri 10/5/18	149					12/4	12/4				
151	Manufacture & Deliver	30 days	Wed 12/5/18	Fri 1/18/19	Mon 10/8/18	Fri 11/16/18	150					12/5	1/18				
152	Material Available for Installation	0 days	Fri 1/18/19	Fri 1/18/19	Fri 11/16/18	Fri 11/16/18	151						1/18				
153	07 27 13 - Modified Bituminous Sheet Air Barriers	76 days	Fri 9/28/18	Fri 1/18/19	Thu 8/2/18	Fri 11/16/18											
154	Issue PO to Vendor	5 days	Fri 9/28/18	Thu 10/4/18	Thu 8/2/18	Wed 8/8/18						9/28	10/4				
155	Vendor Submittal Prep Time	20 days	Fri 10/5/18	Thu 11/1/18	Thu 8/9/18	Thu 9/6/18	154					10/5	11/1				
156	Felix In-House Review	5 days	Fri 11/2/18	Thu 11/8/18	Fri 9/7/18	Thu 9/13/18	155					11/2	11/8				
157	City / Engineer Review	15 days	Fri 11/9/18	Mon 12/3/18	Fri 9/14/18	Thu 10/4/18	156					11/9	12/3				
158	Release for Fabrication	1 day	Tue 12/4/18	Tue 12/4/18	Fri 10/5/18	Fri 10/5/18	157					12/4	12/4				
159	Manufacture & Deliver	30 days	Wed 12/5/18	Fri 1/18/19	Mon 10/8/18	Fri 11/16/18	158					12/5	1/18				
160	Material Available for Installation	0 days	Fri 1/18/19	Fri 1/18/19	Fri 11/16/18	Fri 11/16/18	159						1/18				

Project: 1859 - Keller Alta Vista PS
Date: Mon 10/1/18

Baseline

Task

Critical Task

Milestone

Summary

Rolled Up Task

Rolled Up Critical Task

Rolled Up Milestone

Rolled Up Progress

Split

External Tasks

Project Summary

Group By Summary

Inactive Milestone

Inactive Summary

Manual Task

Duration-only

Manual Summary Rollup

Manual Summary

Start-only

Finish-only

External Tasks

External Milestone

Progress

Deadline



Keller - Alta Vista Pump Station



ID	Task Name	Duration	Start	Finish	Baseline Start	Baseline Finish	Predecessors	017 Sep	Qtr 4, 2017 Oct Nov Dec	Qtr 1, 2018 Jan Feb Mar	Qtr 2, 2018 Apr May Jun	Qtr 3, 2018 Jul Aug Sep	Qtr 4, 2018 Oct Nov Dec	Qtr 1, 2019 Jan Feb Mar	Qtr 2, 2019 Apr May Jun	Qtr 3, 2019 Jul Aug Sep	Qtr 4, 2019 Oct
161	07 27 26 - Fluid-Applied Membrane Air Barriers	76 days	Fri 9/28/18	Fri 1/18/19	Thu 8/2/18	Fri 11/16/18											
162	Issue PO to Vendor	5 days	Fri 9/28/18	Thu 10/4/18	Thu 8/2/18	Wed 8/8/18											
163	Vendor Submittal Prep Time	20 days	Fri 10/5/18	Thu 11/1/18	Thu 8/9/18	Thu 9/6/18	162										
164	Felix In-House Review	5 days	Fri 11/2/18	Thu 11/8/18	Fri 9/7/18	Thu 9/13/18	163										
165	City / Engineer Review	15 days	Fri 11/9/18	Mon 12/3/18	Fri 9/14/18	Thu 10/4/18	164										
166	Release for Fabrication	1 day	Tue 12/4/18	Tue 12/4/18	Fri 10/5/18	Fri 10/5/18	165										
167	Manufacture & Deliver	30 days	Wed 12/5/18	Fri 1/18/19	Mon 10/8/18	Fri 11/16/18	166										
168	Material Available for Installation	0 days	Fri 1/18/19	Fri 1/18/19	Fri 11/16/18	Fri 11/16/18	167										
169	07 41 13 - Metal Roof Panels	76 days	Fri 9/28/18	Fri 1/18/19	Thu 8/2/18	Fri 11/16/18											
170	Issue PO to Vendor	5 days	Fri 9/28/18	Thu 10/4/18	Thu 8/2/18	Wed 8/8/18											
171	Vendor Submittal Prep Time	20 days	Fri 10/5/18	Thu 11/1/18	Thu 8/9/18	Thu 9/6/18	170										
172	Felix In-House Review	5 days	Fri 11/2/18	Thu 11/8/18	Fri 9/7/18	Thu 9/13/18	171										
173	City / Engineer Review	15 days	Fri 11/9/18	Mon 12/3/18	Fri 9/14/18	Thu 10/4/18	172										
174	Release for Fabrication	1 day	Tue 12/4/18	Tue 12/4/18	Fri 10/5/18	Fri 10/5/18	173										
175	Manufacture & Deliver	30 days	Wed 12/5/18	Fri 1/18/19	Mon 10/8/18	Fri 11/16/18	174										
176	Material Available for Installation	0 days	Fri 1/18/19	Fri 1/18/19	Fri 11/16/18	Fri 11/16/18	175										
177	07 42 13 - Metal Wall Panels	76 days	Fri 9/28/18	Fri 1/18/19	Thu 8/2/18	Fri 11/16/18											
178	Issue PO to Vendor	5 days	Fri 9/28/18	Thu 10/4/18	Thu 8/2/18	Wed 8/8/18											
179	Vendor Submittal Prep Time	20 days	Fri 10/5/18	Thu 11/1/18	Thu 8/9/18	Thu 9/6/18	178										
180	Felix In-House Review	5 days	Fri 11/2/18	Thu 11/8/18	Fri 9/7/18	Thu 9/13/18	179										
181	City / Engineer Review	15 days	Fri 11/9/18	Mon 12/3/18	Fri 9/14/18	Thu 10/4/18	180										
182	Release for Fabrication	1 day	Tue 12/4/18	Tue 12/4/18	Fri 10/5/18	Fri 10/5/18	181										
183	Manufacture & Deliver	30 days	Wed 12/5/18	Fri 1/18/19	Mon 10/8/18	Fri 11/16/18	182										

Project: 1859 - Keller Alta Vista PS
Date: Mon 10/1/18

Baseline

Task

Critical Task

Milestone

Summary

Rolled Up Task

Rolled Up Critical Task

Rolled Up Milestone

Rolled Up Progress

Split

External Tasks

Project Summary

Group By Summary

Inactive Milestone

Inactive Summary

Manual Task

Duration-only

Manual Summary Rollup

Manual Summary

Start-only

Finish-only

External Tasks

External Milestone

Progress

Deadline



Keller - Alta Vista Pump Station



ID	Task Name	Duration	Start	Finish	Baseline Start	Baseline Finish	Predecessors	017 Sep	Qtr 4, 2017 Oct Nov Dec	Qtr 1, 2018 Jan Feb Mar	Qtr 2, 2018 Apr May Jun	Qtr 3, 2018 Jul Aug Sep	Qtr 4, 2018 Oct Nov Dec	Qtr 1, 2019 Jan Feb Mar	Qtr 2, 2019 Apr May Jun	Qtr 3, 2019 Jul Aug Sep	Qtr 4, 2019 Oct Nov Dec
184	Material Available for Installation	0 days	Fri 1/18/19	Fri 1/18/19	Fri 11/16/18	Fri 11/16/18	183										
185	07 92 00 - Joint Sealants	76 days	Fri 9/28/18	Fri 1/18/19	Thu 8/2/18	Fri 11/16/18											
186	Issue PO to Vendor	5 days	Fri 9/28/18	Thu 10/4/18	Thu 8/2/18	Wed 8/8/18											
187	Vendor Submittal Prep Time	20 days	Fri 10/5/18	Thu 11/1/18	Thu 8/9/18	Thu 9/6/18	186										
188	Felix In-House Review	5 days	Fri 11/2/18	Thu 11/8/18	Fri 9/7/18	Thu 9/13/18	187										
189	City / Engineer Review	15 days	Fri 11/9/18	Mon 12/3/18	Fri 9/14/18	Thu 10/4/18	188										
190	Release for Fabrication	1 day	Tue 12/4/18	Tue 12/4/18	Fri 10/5/18	Fri 10/5/18	189										
191	Manufacture & Deliver	30 days	Wed 12/5/18	Fri 1/18/19	Mon 10/8/18	Fri 11/16/18	190										
192	Material Available for Installation	0 days	Fri 1/18/19	Fri 1/18/19	Fri 11/16/18	Fri 11/16/18	191										
193	Division 08 - Openings	81 days	Fri 9/28/18	Fri 1/25/19	Thu 8/2/18	Tue 11/27/18	44										
194	08 11 13 - Hollow Metal Doors and Frames	81 days	Fri 9/28/18	Fri 1/25/19	Thu 8/2/18	Tue 11/27/18											
195	Issue PO to Vendor	5 days	Fri 9/28/18	Thu 10/4/18	Thu 8/2/18	Wed 8/8/18											
196	Vendor Submittal Prep Time	25 days	Fri 10/5/18	Thu 11/8/18	Thu 8/9/18	Thu 9/13/18	195										
197	Felix In-House Review	5 days	Fri 11/9/18	Thu 11/15/18	Fri 9/14/18	Thu 9/20/18	196										
198	City / Engineer Review	15 days	Fri 11/16/18	Mon 12/10/18	Fri 9/21/18	Thu 10/11/18	197										
199	Release for Fabrication	1 day	Tue 12/11/18	Tue 12/11/18	Fri 10/12/18	Fri 10/12/18	198										
200	Manufacture & Deliver	30 days	Wed 12/12/18	Fri 1/25/19	Mon 10/15/18	Tue 11/27/18	199										
201	Material Available for Installation	0 days	Fri 1/25/19	Fri 1/25/19	Tue 11/27/18	Tue 11/27/18	200										
202	08 33 23 - Overhead Coiling Doors	81 days	Fri 9/28/18	Fri 1/25/19	Thu 8/2/18	Tue 11/27/18											
203	Issue PO to Vendor	5 days	Fri 9/28/18	Thu 10/4/18	Thu 8/2/18	Wed 8/8/18											
204	Vendor Submittal Prep Time	25 days	Fri 10/5/18	Thu 11/8/18	Thu 8/9/18	Thu 9/13/18	203										
205	Felix In-House Review	5 days	Fri 11/9/18	Thu 11/15/18	Fri 9/14/18	Thu 9/20/18	204										
206	City / Engineer Review	15 days	Fri 11/16/18	Mon 12/10/18	Fri 9/21/18	Thu 10/11/18	205										

Project: 1859 - Keller Alta Vista PS
Date: Mon 10/1/18

Baseline

Task

Critical Task

Milestone

Summary

Rolled Up Task

Rolled Up Critical Task

Rolled Up Milestone

Rolled Up Progress

Split

External Tasks

Project Summary

Group By Summary

Inactive Milestone

Inactive Summary

Manual Task

Duration-only

Manual Summary Rollup

Manual Summary

Start-only

Finish-only

External Tasks

External Milestone

Progress

Deadline



Keller - Alta Vista Pump Station



ID	Task Name	Duration	Start	Finish	Baseline Start	Baseline Finish	Predecessors	017 Sep	Qtr 4, 2017 Oct Nov Dec	Qtr 1, 2018 Jan Feb Mar	Qtr 2, 2018 Apr May Jun	Qtr 3, 2018 Jul Aug Sep	Qtr 4, 2018 Oct Nov Dec	Qtr 1, 2019 Jan Feb Mar	Qtr 2, 2019 Apr May Jun	Qtr 3, 2019 Jul Aug Sep	Qtr 4, 2019 Oct Nov Dec
207	Release for Fabrication	1 day	Tue 12/11/18	Tue 12/11/18	Fri 10/12/18	Fri 10/12/18	206						12/11	12/11			
208	Manufacture & Deliver	30 days	Wed 12/12/18	Fri 1/25/19	Mon 10/15/18	Tue 11/27/18	207						12/12	1/25			
209	Material Available for Installation	0 days	Fri 1/25/19	Fri 1/25/19	Tue 11/27/18	Tue 11/27/18	208							1/25			
210	08 71 00 - Door Hardware	81 days	Fri 9/28/18	Fri 1/25/19	Thu 8/2/18	Tue 11/27/18											
211	Issue PO to Vendor	5 days	Fri 9/28/18	Thu 10/4/18	Thu 8/2/18	Wed 8/8/18							9/28	10/4			
212	Vendor Submittal Prep Time	25 days	Fri 10/5/18	Thu 11/8/18	Thu 8/9/18	Thu 9/13/18	211						10/5	11/8			
213	Felix In-House Review	5 days	Fri 11/9/18	Thu 11/15/18	Fri 9/14/18	Thu 9/20/18	212						11/9	11/15			
214	City / Engineer Review	15 days	Fri 11/16/18	Mon 12/10/18	Fri 9/21/18	Thu 10/11/18	213						11/16	12/10			
215	Release for Fabrication	1 day	Tue 12/11/18	Tue 12/11/18	Fri 10/12/18	Fri 10/12/18	214						12/11	12/11			
216	Manufacture & Deliver	30 days	Wed 12/12/18	Fri 1/25/19	Mon 10/15/18	Tue 11/27/18	215						12/12	1/25			
217	Material Available for Installation	0 days	Fri 1/25/19	Fri 1/25/19	Tue 11/27/18	Tue 11/27/18	216							1/25			
218	08 80 00 - Glazing	81 days	Fri 9/28/18	Fri 1/25/19	Thu 8/2/18	Tue 11/27/18											
219	Issue PO to Vendor	5 days	Fri 9/28/18	Thu 10/4/18	Thu 8/2/18	Wed 8/8/18							9/28	10/4			
220	Vendor Submittal Prep Time	25 days	Fri 10/5/18	Thu 11/8/18	Thu 8/9/18	Thu 9/13/18	219						10/5	11/8			
221	Felix In-House Review	5 days	Fri 11/9/18	Thu 11/15/18	Fri 9/14/18	Thu 9/20/18	220						11/9	11/15			
222	City / Engineer Review	15 days	Fri 11/16/18	Mon 12/10/18	Fri 9/21/18	Thu 10/11/18	221						11/16	12/10			
223	Release for Fabrication	1 day	Tue 12/11/18	Tue 12/11/18	Fri 10/12/18	Fri 10/12/18	222						12/11	12/11			
224	Manufacture & Deliver	30 days	Wed 12/12/18	Fri 1/25/19	Mon 10/15/18	Tue 11/27/18	223						12/12	1/25			
225	Material Available for Installation	0 days	Fri 1/25/19	Fri 1/25/19	Tue 11/27/18	Tue 11/27/18	224							1/25			
226	08 90 00 - Louvers and Vents	81 days	Fri 9/28/18	Fri 1/25/19	Thu 8/2/18	Tue 11/27/18											
227	Issue PO to Vendor	5 days	Fri 9/28/18	Thu 10/4/18	Thu 8/2/18	Wed 8/8/18							9/28	10/4			
228	Vendor Submittal Prep Time	25 days	Fri 10/5/18	Thu 11/8/18	Thu 8/9/18	Thu 9/13/18	227						10/5	11/8			
229	Felix In-House Review	5 days	Fri 11/9/18	Thu 11/15/18	Fri 9/14/18	Thu 9/20/18	228						11/9	11/15			

Project: 1859 - Keller Alta Vista PS
Date: Mon 10/1/18

Baseline

Task

Critical Task

Milestone

Summary

Rolled Up Task

Rolled Up Critical Task

Rolled Up Milestone

Rolled Up Progress

Split

External Tasks

Project Summary

Group By Summary

Inactive Milestone

Inactive Summary

Manual Task

Duration-only

Manual Summary Rollup

Manual Summary

Start-only

Finish-only

External Tasks

External Milestone

Progress

Deadline



Keller - Alta Vista Pump Station



ID	Task Name	Duration	Start	Finish	Baseline Start	Baseline Finish	Predecessors	017 Sep	Qtr 4, 2017 Oct Nov Dec	Qtr 1, 2018 Jan Feb Mar	Qtr 2, 2018 Apr May Jun	Qtr 3, 2018 Jul Aug Sep	Qtr 4, 2018 Oct Nov Dec	Qtr 1, 2019 Jan Feb Mar	Qtr 2, 2019 Apr May Jun	Qtr 3, 2019 Jul Aug Sep	Qtr 4, 2019 Oct Nov Dec
230	City / Engineer Review	15 days	Fri 11/16/18	Mon 12/10/18	Fri 9/21/18	Thu 10/11/18	229						11/16 12/10				
231	Release for Fabrication	1 day	Tue 12/11/18	Tue 12/11/18	Fri 10/12/18	Fri 10/12/18	230						12/11 12/11				
232	Manufacture & Deliver	30 days	Wed 12/12/18	Fri 1/25/19	Mon 10/15/18	Tue 11/27/18	231						12/12 1/25				
233	Material Available for Installation	0 days	Fri 1/25/19	Fri 1/25/19	Tue 11/27/18	Tue 11/27/18	232						1/25				
234	Division 09 - Finishes	76 days	Fri 9/28/18	Fri 1/18/19	Thu 8/2/18	Fri 11/16/18	44										
235	09 22 16 - Non-Structural Metal Framing	76 days	Fri 9/28/18	Fri 1/18/19	Thu 8/2/18	Fri 11/16/18											
236	Issue PO to Vendor	5 days	Fri 9/28/18	Thu 10/4/18	Thu 8/2/18	Wed 8/8/18							9/28 10/4				
237	Vendor Submittal Prep Time	25 days	Fri 10/5/18	Thu 11/8/18	Thu 8/9/18	Thu 9/13/18	236						10/5 11/8				
238	Felix In-House Review	5 days	Fri 11/9/18	Thu 11/15/18	Fri 9/14/18	Thu 9/20/18	237						11/9 11/15				
239	City / Engineer Review	15 days	Fri 11/16/18	Mon 12/10/18	Fri 9/21/18	Thu 10/11/18	238						11/16 12/10				
240	Release for Fabrication	1 day	Tue 12/11/18	Tue 12/11/18	Fri 10/12/18	Fri 10/12/18	239						12/11 12/11				
241	Manufacture & Deliver	25 days	Wed 12/12/18	Fri 1/18/19	Mon 10/15/18	Fri 11/16/18	240						12/12 1/18				
242	Material Available for Installation	0 days	Fri 1/18/19	Fri 1/18/19	Fri 11/16/18	Fri 11/16/18	241						1/18				
243	09 29 00 - Gypsum Board	51 days	Fri 9/28/18	Tue 12/11/18	Thu 8/2/18	Fri 10/12/18											
244	Issue PO to Vendor	5 days	Fri 9/28/18	Thu 10/4/18	Thu 8/2/18	Wed 8/8/18							9/28 10/4				
245	Vendor Submittal Prep Time	10 days	Fri 10/5/18	Thu 10/18/18	Thu 8/9/18	Wed 8/22/18	244						10/5 10/18				
246	Felix In-House Review	5 days	Fri 10/19/18	Thu 10/25/18	Thu 8/23/18	Wed 8/29/18	245						10/19 10/25				
247	City / Engineer Review	15 days	Fri 10/26/18	Thu 11/15/18	Thu 8/30/18	Thu 9/20/18	246						10/26 11/15				
248	Release for Fabrication	1 day	Fri 11/16/18	Fri 11/16/18	Fri 9/21/18	Fri 9/21/18	247						11/16 11/16				
249	Manufacture & Deliver	15 days	Mon 11/19/18	Tue 12/11/18	Mon 9/24/18	Fri 10/12/18	248						11/19 12/11				
250	Material Available for Installation	0 days	Tue 12/11/18	Tue 12/11/18	Fri 10/12/18	Fri 10/12/18	249						12/11				
251	09 67 23 - Resinous Flooring	66 days	Fri 9/28/18	Fri 1/4/19	Thu 8/2/18	Fri 11/2/18											
252	Issue PO to Vendor	5 days	Fri 9/28/18	Thu 10/4/18	Thu 8/2/18	Wed 8/8/18							9/28 10/4				

Project: 1859 - Keller Alta Vista PS
Date: Mon 10/1/18

Baseline

Task

Critical Task

Milestone

Summary

Rolled Up Task

Rolled Up Critical Task

Rolled Up Milestone

Rolled Up Progress

Split

External Tasks

Project Summary

Group By Summary

Inactive Milestone

Inactive Summary

Manual Task

Duration-only

Manual Summary Rollup

Manual Summary

Start-only

Finish-only

External Tasks

External Milestone

Progress

Deadline



Keller - Alta Vista Pump Station



ID	Task Name	Duration	Start	Finish	Baseline Start	Baseline Finish	Predecessors	017 Sep	Qtr 4, 2017 Oct Nov Dec	Qtr 1, 2018 Jan Feb Mar	Qtr 2, 2018 Apr May Jun	Qtr 3, 2018 Jul Aug Sep	Qtr 4, 2018 Oct Nov Dec	Qtr 1, 2019 Jan Feb Mar	Qtr 2, 2019 Apr May Jun	Qtr 3, 2019 Jul Aug Sep	Qtr 4, 2019 Oct
253	Vendor Submittal Prep Time	20 days	Fri 10/5/18	Thu 11/1/18	Thu 8/9/18	Thu 9/6/18	252						10/5 11/1				
254	Felix In-House Review	5 days	Fri 11/2/18	Thu 11/8/18	Fri 9/7/18	Thu 9/13/18	253						11/2 11/8				
255	City / Engineer Review	15 days	Fri 11/9/18	Mon 12/3/18	Fri 9/14/18	Thu 10/4/18	254						11/9 12/3				
256	Release for Fabrication	1 day	Tue 12/4/18	Tue 12/4/18	Fri 10/5/18	Fri 10/5/18	255						12/4 12/4				
257	Manufacture & Deliver	20 days	Wed 12/5/18	Fri 1/4/19	Mon 10/8/18	Fri 11/2/18	256						12/5 1/4				
258	Material Available for Installation	0 days	Fri 1/4/19	Fri 1/4/19	Fri 11/2/18	Fri 11/2/18	257						1/4				
259	09 91 00 - Painting	66 days	Fri 9/28/18	Fri 1/4/19 Thu 8/2/18		Fri 11/2/18											
260	Issue PO to Vendor	5 days	Fri 9/28/18	Thu 10/4/18	Thu 8/2/18	Wed 8/8/18							9/28 10/4				
261	Vendor Submittal Prep Time	20 days	Fri 10/5/18	Thu 11/1/18	Thu 8/9/18	Thu 9/6/18	260						10/5 11/1				
262	Felix In-House Review	5 days	Fri 11/2/18	Thu 11/8/18	Fri 9/7/18	Thu 9/13/18	261						11/2 11/8				
263	City / Engineer Review	15 days	Fri 11/9/18	Mon 12/3/18	Fri 9/14/18	Thu 10/4/18	262						11/9 12/3				
264	Release for Fabrication	1 day	Tue 12/4/18	Tue 12/4/18	Fri 10/5/18	Fri 10/5/18	263						12/4 12/4				
265	Manufacture & Deliver	20 days	Wed 12/5/18	Fri 1/4/19	Mon 10/8/18	Fri 11/2/18	264						12/5 1/4				
266	Material Available for Installation	0 days	Fri 1/4/19	Fri 1/4/19	Fri 11/2/18	Fri 11/2/18	265						1/4				
267	09 97 13 - Pipe Line Coatings and Linings	66 days	Fri 9/28/18	Fri 1/4/19 Thu 8/2/18		Fri 11/2/18											
268	Issue PO to Vendor	5 days	Fri 9/28/18	Thu 10/4/18	Thu 8/2/18	Wed 8/8/18							9/28 10/4				
269	Vendor Submittal Prep Time	20 days	Fri 10/5/18	Thu 11/1/18	Thu 8/9/18	Thu 9/6/18	268						10/5 11/1				
270	Felix In-House Review	5 days	Fri 11/2/18	Thu 11/8/18	Fri 9/7/18	Thu 9/13/18	269						11/2 11/8				
271	City / Engineer Review	15 days	Fri 11/9/18	Mon 12/3/18	Fri 9/14/18	Thu 10/4/18	270						11/9 12/3				
272	Release for Fabrication	1 day	Tue 12/4/18	Tue 12/4/18	Fri 10/5/18	Fri 10/5/18	271						12/4 12/4				
273	Manufacture & Deliver	20 days	Wed 12/5/18	Fri 1/4/19	Mon 10/8/18	Fri 11/2/18	272						12/5 1/4				
274	Material Available for Installation	0 days	Fri 1/4/19	Fri 1/4/19	Fri 11/2/18	Fri 11/2/18	273						1/4				
275	Division 10 - Specialties	76 days	Fri 9/28/18	Fri 1/18/19 Thu 8/2/18		Fri 11/16/18	44										

Project: 1859 - Keller Alta Vista PS
Date: Mon 10/1/18

Baseline

Task

Critical Task

Milestone

Summary

Rolled Up Task

Rolled Up Critical Task

Rolled Up Milestone

Rolled Up Progress

Split

External Tasks

Project Summary

Group By Summary

Inactive Milestone

Inactive Summary

Manual Task

Duration-only

Manual Summary Rollup

Manual Summary

Start-only

Finish-only

External Tasks

External Milestone

Progress

Deadline



Keller - Alta Vista Pump Station



ID	Task Name	Duration	Start	Finish	Baseline Start	Baseline Finish	Predecessors	017 Sep	Qtr 4, 2017 Oct Nov Dec	Qtr 1, 2018 Jan Feb Mar	Qtr 2, 2018 Apr May Jun	Qtr 3, 2018 Jul Aug Sep	Qtr 4, 2018 Oct Nov Dec	Qtr 1, 2019 Jan Feb Mar	Qtr 2, 2019 Apr May Jun	Qtr 3, 2019 Jul Aug Sep	Qtr 4, 2019 Oct Nov Dec
276	10 28 00 - Toilet, Bath, and Laundry Accessories	76 days	Fri 9/28/18	Fri 1/18/19	Thu 8/2/18	Fri 11/16/18											
277	Issue PO to Vendor	5 days	Fri 9/28/18	Thu 10/4/18	Thu 8/2/18	Wed 8/8/18							9/28 10/4				
278	Vendor Submittal Prep Time	25 days	Fri 10/5/18	Thu 11/8/18	Thu 8/9/18	Thu 9/13/18	277						10/5 11/8				
279	Felix In-House Review	5 days	Fri 11/9/18	Thu 11/15/18	Fri 9/14/18	Thu 9/20/18	278						11/9 11/15				
280	City / Engineer Review	15 days	Fri 11/16/18	Mon 12/10/18	Fri 9/21/18	Thu 10/11/18	279						11/16 12/10				
281	Release for Fabrication	1 day	Tue 12/11/18	Tue 12/11/18	Fri 10/12/18	Fri 10/12/18	280						12/11 12/11				
282	Manufacture & Deliver	25 days	Wed 12/12/18	Fri 1/18/19	Mon 10/15/18	Fri 11/16/18	281						12/12 1/18				
283	Material Available for Installation	0 days	Fri 1/18/19	Fri 1/18/19	Fri 11/16/18	Fri 11/16/18	282										1/18
284	10 44 16 - Fire Extinguishers	56 days	Fri 9/28/18	Tue 12/18/18	Thu 8/2/18	Fri 10/19/18											
285	Issue PO to Vendor	5 days	Fri 9/28/18	Thu 10/4/18	Thu 8/2/18	Wed 8/8/18							9/28 10/4				
286	Vendor Submittal Prep Time	15 days	Fri 10/5/18	Thu 10/25/18	Thu 8/9/18	Wed 8/29/18	285						10/5 10/25				
287	Felix In-House Review	5 days	Fri 10/26/18	Thu 11/1/18	Thu 8/30/18	Thu 9/6/18	286						10/26 11/1				
288	City / Engineer Review	15 days	Fri 11/2/18	Mon 11/26/18	Fri 9/7/18	Thu 9/27/18	287						11/2 11/26				
289	Release for Fabrication	1 day	Tue 11/27/18	Tue 11/27/18	Fri 9/28/18	Fri 9/28/18	288						11/27 11/27				
290	Manufacture & Deliver	15 days	Wed 11/28/18	Tue 12/18/18	Mon 10/1/18	Fri 10/19/18	289						11/28 12/18				
291	Material Available for Installation	0 days	Tue 12/18/18	Tue 12/18/18	Fri 10/19/18	Fri 10/19/18	290										12/18
292	Division 22 - Plumbing	71 days	Fri 9/28/18	Fri 1/11/19	Thu 8/2/18	Fri 11/9/18	44										
293	22 00 01 - Plumbing Systems	71 days	Fri 9/28/18	Fri 1/11/19	Thu 8/2/18	Fri 11/9/18											
294	Issue PO to Vendor	5 days	Fri 9/28/18	Thu 10/4/18	Thu 8/2/18	Wed 8/8/18							9/28 10/4				
295	Vendor Submittal Prep Time	25 days	Fri 10/5/18	Thu 11/8/18	Thu 8/9/18	Thu 9/13/18	294						10/5 11/8				
296	Felix In-House Review	5 days	Fri 11/9/18	Thu 11/15/18	Fri 9/14/18	Thu 9/20/18	295						11/9 11/15				
297	City / Engineer Review	15 days	Fri 11/16/18	Mon 12/10/18	Fri 9/21/18	Thu 10/11/18	296						11/16 12/10				
298	Release for Fabrication	1 day	Tue 12/11/18	Tue 12/11/18	Fri 10/12/18	Fri 10/12/18	297						12/11 12/11				

Project: 1859 - Keller Alta Vista PS
Date: Mon 10/1/18

Baseline

Task

Critical Task

Milestone

Summary

Rolled Up Task

Rolled Up Critical Task

Rolled Up Milestone

Rolled Up Progress

Split

External Tasks

Project Summary

Group By Summary

Inactive Milestone

Inactive Summary

Manual Task

Duration-only

Manual Summary Rollup

Manual Summary

Start-only

Finish-only

External Tasks

External Milestone

Progress

Deadline



Keller - Alta Vista Pump Station



ID	Task Name	Duration	Start	Finish	Baseline Start	Baseline Finish	Predecessors	Q17 Sep	Qtr 4, 2017 Oct Nov Dec	Qtr 1, 2018 Jan Feb Mar	Qtr 2, 2018 Apr May Jun	Qtr 3, 2018 Jul Aug Sep	Qtr 4, 2018 Oct Nov Dec	Qtr 1, 2019 Jan Feb Mar	Qtr 2, 2019 Apr May Jun	Qtr 3, 2019 Jul Aug Sep	Qtr 4, 2019 Oct Nov Dec
299	Manufacture & Deliver	20 days	Wed 12/12/18	Fri 1/11/19	Mon 10/15/18	Fri 11/9/18	298						12/12	1/11			
300	Material Available for Installation	0 days	Fri 1/11/19	Fri 1/11/19	Fri 11/9/18	Fri 11/9/18	299						1/11				
301	Division 23 - HVAC	192 days	Fri 9/28/18	Tue 7/2/19	Thu 8/2/18	Tue 5/28/19	44										
302	23 00 00 & 23 05 13 - HVAC & Common Motor Req. for HVAC Equipment	192 days	Fri 9/28/18	Tue 7/2/19	Thu 8/2/18	Tue 5/28/19											
303	Issue PO to Vendor	5 days	Fri 9/28/18	Thu 10/4/18	Thu 8/2/18	Wed 8/8/18						9/28	10/4				
304	Vendor Submittal Prep Time	30 days	Fri 10/5/18	Thu 11/15/18	Thu 8/9/18	Thu 9/20/18	303					10/5	11/15				
305	Felix In-House Review	5 days	Fri 11/16/18	Mon 11/26/18	Fri 9/21/18	Thu 9/27/18	304					11/16	11/26				
306	City / Engineer Review	15 days	Tue 11/27/18	Mon 12/17/18	Fri 9/28/18	Thu 10/18/18	305					11/27	12/17				
307	Release for Fabrication	1 day	Tue 12/18/18	Tue 12/18/18	Fri 10/19/18	Fri 10/19/18	306					12/18	12/18				
308	Manufacture & Deliver	50 days	Wed 12/19/18	Fri 3/1/19	Mon 10/22/18	Fri 1/4/19	307					12/19	3/1				
309	Material Available for Installation	0 days	Fri 3/1/19	Fri 3/1/19	Fri 1/4/19	Fri 1/4/19	308						3/1				
310	Vendor O&M Prep Time	40 days	Wed 12/19/18	Fri 2/15/19	Mon 10/22/18	Tue 12/18/18	307					12/19	2/15				
311	Felix In-House O&M Review	10 days	Mon 2/18/19	Fri 3/1/19	Wed 12/19/18	Fri 1/4/19	310						2/18	3/1			
312	City/Engineer O&M Review	15 days	Mon 3/4/19	Fri 3/22/19	Mon 1/7/19	Fri 1/25/19	311						3/4	3/22			
313	Address O&M Review Comments	20 days	Mon 3/25/19	Fri 4/19/19	Mon 1/28/19	Fri 2/22/19	312						3/25	4/19			
314	Submit Final O&M	1 day	Tue 7/2/19	Tue 7/2/19	Tue 5/28/19	Tue 5/28/19	313,611							7/2	7/2		
315	23 05 53 - Identification for HVAC Piping and Equipment	66 days	Fri 9/28/18	Fri 1/4/19	Thu 8/2/18	Fri 11/2/18											
316	Issue PO to Vendor	5 days	Fri 9/28/18	Thu 10/4/18	Thu 8/2/18	Wed 8/8/18						9/28	10/4				
317	Vendor Submittal Prep Time	20 days	Fri 10/5/18	Thu 11/1/18	Thu 8/9/18	Thu 9/6/18	316					10/5	11/1				
318	Felix In-House Review	5 days	Fri 11/2/18	Thu 11/8/18	Fri 9/7/18	Thu 9/13/18	317					11/2	11/8				
319	City / Engineer Review	15 days	Fri 11/9/18	Mon 12/3/18	Fri 9/14/18	Thu 10/4/18	318					11/9	12/3				
320	Release for Fabrication	1 day	Tue 12/4/18	Tue 12/4/18	Fri 10/5/18	Fri 10/5/18	319					12/4	12/4				

Project: 1859 - Keller Alta Vista PS Date: Mon 10/1/18	Baseline		Rolled Up Task		External Tasks		Manual Task		Finish-only
	Task		Rolled Up Critical Task		Project Summary		Duration-only		External Tasks
	Critical Task		Rolled Up Milestone		Group By Summary		Manual Summary Rollup		External Milestone
	Milestone		Rolled Up Progress		Inactive Milestone		Manual Summary		Progress
	Summary		Split		Inactive Summary		Start-only		Deadline



Keller - Alta Vista Pump Station



ID	Task Name	Duration	Start	Finish	Baseline Start	Baseline Finish	Predecessors	017 Sep	Qtr 4, 2017 Oct Nov Dec	Qtr 1, 2018 Jan Feb Mar	Qtr 2, 2018 Apr May Jun	Qtr 3, 2018 Jul Aug Sep	Qtr 4, 2018 Oct Nov Dec	Qtr 1, 2019 Jan Feb Mar	Qtr 2, 2019 Apr May Jun	Qtr 3, 2019 Jul Aug Sep	Qtr 4, 2019 Oct Nov Dec
321	Manufacture & Deliver	20 days	Wed 12/5/18	Fri 1/4/19	Mon 10/8/18	Fri 11/2/18	320						12/5 1/4				
322	Material Available for Installation	0 days	Fri 1/4/19	Fri 1/4/19	Fri 11/2/18	Fri 11/2/18	321						1/4				
323	23 07 13 - Duct Insulation	66 days	Fri 9/28/18	Fri 1/4/19	Thu 8/2/18	Fri 11/2/18											
324	Issue PO to Vendor	5 days	Fri 9/28/18	Thu 10/4/18	Thu 8/2/18	Wed 8/8/18						9/28 10/4					
325	Vendor Submittal Prep Time	20 days	Fri 10/5/18	Thu 11/1/18	Thu 8/9/18	Thu 9/6/18	324					10/5 11/1					
326	Felix In-House Review	5 days	Fri 11/2/18	Thu 11/8/18	Fri 9/7/18	Thu 9/13/18	325					11/2 11/8					
327	City / Engineer Review	15 days	Fri 11/9/18	Mon 12/3/18	Fri 9/14/18	Thu 10/4/18	326					11/9 12/3					
328	Release for Fabrication	1 day	Tue 12/4/18	Tue 12/4/18	Fri 10/5/18	Fri 10/5/18	327					12/4 12/4					
329	Manufacture & Deliver	20 days	Wed 12/5/18	Fri 1/4/19	Mon 10/8/18	Fri 11/2/18	328					12/5 1/4					
330	Material Available for Installation	0 days	Fri 1/4/19	Fri 1/4/19	Fri 11/2/18	Fri 11/2/18	329					1/4					
331	23 31 13 & 23 33 00 - Metal Ducts & Accessories	71 days	Fri 9/28/18	Fri 1/11/19	Thu 8/2/18	Fri 11/9/18											
332	Issue PO to Vendor	5 days	Fri 9/28/18	Thu 10/4/18	Thu 8/2/18	Wed 8/8/18						9/28 10/4					
333	Vendor Submittal Prep Time	20 days	Fri 10/5/18	Thu 11/1/18	Thu 8/9/18	Thu 9/6/18	332					10/5 11/1					
334	Felix In-House Review	5 days	Fri 11/2/18	Thu 11/8/18	Fri 9/7/18	Thu 9/13/18	333					11/2 11/8					
335	City / Engineer Review	15 days	Fri 11/9/18	Mon 12/3/18	Fri 9/14/18	Thu 10/4/18	334					11/9 12/3					
336	Release for Fabrication	1 day	Tue 12/4/18	Tue 12/4/18	Fri 10/5/18	Fri 10/5/18	335					12/4 12/4					
337	Manufacture & Deliver	25 days	Wed 12/5/18	Fri 1/11/19	Mon 10/8/18	Fri 11/9/18	336					12/5 1/11					
338	Material Available for Installation	0 days	Fri 1/11/19	Fri 1/11/19	Fri 11/9/18	Fri 11/9/18	337					1/11					
339	23 34 23 - HVAC Power Ventilators	192 days	Fri 9/28/18	Tue 7/2/19	Thu 8/2/18	Tue 5/28/19											
340	Issue PO to Vendor	5 days	Fri 9/28/18	Thu 10/4/18	Thu 8/2/18	Wed 8/8/18						9/28 10/4					
341	Vendor Submittal Prep Time	25 days	Fri 10/5/18	Thu 11/8/18	Thu 8/9/18	Thu 9/13/18	340					10/5 11/8					
342	Felix In-House Review	5 days	Fri 11/9/18	Thu 11/15/18	Fri 9/14/18	Thu 9/20/18	341					11/9 11/15					
343	City / Engineer Review	15 days	Fri 11/16/18	Mon 12/10/18	Fri 9/21/18	Thu 10/11/18	342					11/16 12/10					

Project: 1859 - Keller Alta Vista PS
Date: Mon 10/1/18

Baseline

Task

Critical Task

Milestone

Summary

Rolled Up Task

Rolled Up Critical Task

Rolled Up Milestone

Rolled Up Progress

Split

External Tasks

Project Summary

Group By Summary

Inactive Milestone

Inactive Summary

Manual Task

Duration-only

Manual Summary Rollup

Manual Summary

Start-only

Finish-only

External Tasks

External Milestone

Progress

Deadline



Keller - Alta Vista Pump Station



ID	Task Name	Duration	Start	Finish	Baseline Start	Baseline Finish	Predecessors	017 Sep	Qtr 4, 2017 Oct Nov Dec	Qtr 1, 2018 Jan Feb Mar	Qtr 2, 2018 Apr May Jun	Qtr 3, 2018 Jul Aug Sep	Qtr 4, 2018 Oct Nov Dec	Qtr 1, 2019 Jan Feb Mar	Qtr 2, 2019 Apr May Jun	Qtr 3, 2019 Jul Aug Sep	Qtr 4, 2019 Oct Nov Dec
344	Release for Fabrication	1 day	Tue 12/11/18	Tue 12/11/18	Fri 10/12/18	Fri 10/12/18	343						12/11	12/11			
345	Manufacture & Deliver	30 days	Wed 12/12/18	Fri 1/25/19	Mon 10/15/18	Tue 11/27/18	344						12/12	1/25			
346	Material Available for Installation	0 days	Fri 1/25/19	Fri 1/25/19	Tue 11/27/18	Tue 11/27/18	345							1/25			
347	Vendor O&M Prep Time	40 days	Wed 12/12/18	Fri 2/8/19	Mon 10/15/18	Tue 12/11/18	344						12/12	2/8			
348	Felix In-House O&M Review	10 days	Mon 2/11/19	Fri 2/22/19	Wed 12/12/18	Thu 12/27/18	347							2/11	2/22		
349	City/Engineer O&M Review	15 days	Mon 2/25/19	Fri 3/15/19	Fri 12/28/18	Fri 1/18/19	348							2/25	3/15		
350	Address O&M Review Comments	20 days	Mon 3/18/19	Fri 4/12/19	Mon 1/21/19	Fri 2/15/19	349							3/18	4/12		
351	Submit Final O&M	1 day	Tue 7/2/19	Tue 7/2/19	Tue 5/28/19	Tue 5/28/19	350,611									7/2	7/2
352	23 37 13 - Diffusers, Registers and Grilles	76 days	Fri 9/28/18	Fri 1/18/19	Thu 8/2/18	Fri 11/16/18											
353	Issue PO to Vendor	5 days	Fri 9/28/18	Thu 10/4/18	Thu 8/2/18	Wed 8/8/18							9/28	10/4			
354	Vendor Submittal Prep Time	20 days	Fri 10/5/18	Thu 11/1/18	Thu 8/9/18	Thu 9/6/18	353						10/5	11/1			
355	Felix In-House Review	5 days	Fri 11/2/18	Thu 11/8/18	Fri 9/7/18	Thu 9/13/18	354						11/2	11/8			
356	City / Engineer Review	15 days	Fri 11/9/18	Mon 12/3/18	Fri 9/14/18	Thu 10/4/18	355						11/9	12/3			
357	Release for Fabrication	1 day	Tue 12/4/18	Tue 12/4/18	Fri 10/5/18	Fri 10/5/18	356						12/4	12/4			
358	Manufacture & Deliver	30 days	Wed 12/5/18	Fri 1/18/19	Mon 10/8/18	Fri 11/16/18	357						12/5	1/18			
359	Material Available for Installation	0 days	Fri 1/18/19	Fri 1/18/19	Fri 11/16/18	Fri 11/16/18	358							1/18			
360	23 81 26 - Split-System Air-Conditioners	192 days	Fri 9/28/18	Tue 7/2/19	Thu 8/2/18	Tue 5/28/19											
361	Issue PO to Vendor	5 days	Fri 9/28/18	Thu 10/4/18	Thu 8/2/18	Wed 8/8/18							9/28	10/4			
362	Vendor Submittal Prep Time	40 days	Fri 10/5/18	Mon 12/3/18	Thu 8/9/18	Thu 10/4/18	361						10/5	12/3			
363	Felix In-House Review	5 days	Tue 12/4/18	Mon 12/10/18	Fri 10/5/18	Thu 10/11/18	362						12/4	12/10			
364	City / Engineer Review	15 days	Tue 12/11/18	Thu 1/3/19	Fri 10/12/18	Thu 11/1/18	363						12/11	1/3			
365	Release for Fabrication	1 day	Fri 1/4/19	Fri 1/4/19	Fri 11/2/18	Fri 11/2/18	364							1/4	1/4		
366	Manufacture & Deliver	50 days	Mon 1/7/19	Fri 3/15/19	Mon 11/5/18	Fri 1/18/19	365						1/7	3/15			

Project: 1859 - Keller Alta Vista PS
Date: Mon 10/1/18

Baseline

Task

Critical Task

Milestone

Summary

Rolled Up Task

Rolled Up Critical Task

Rolled Up Milestone

Rolled Up Progress

Split

External Tasks

Project Summary

Group By Summary

Inactive Milestone

Inactive Summary

Manual Task

Duration-only

Manual Summary Rollup

Manual Summary

Start-only

Finish-only

External Tasks

External Milestone

Progress

Deadline



Keller - Alta Vista Pump Station



ID	Task Name	Duration	Start	Finish	Baseline Start	Baseline Finish	Predecessors	017 Sep	Qtr 4, 2017 Oct Nov Dec	Qtr 1, 2018 Jan Feb Mar	Qtr 2, 2018 Apr May Jun	Qtr 3, 2018 Jul Aug Sep	Qtr 4, 2018 Oct Nov Dec	Qtr 1, 2019 Jan Feb Mar	Qtr 2, 2019 Apr May Jun	Qtr 3, 2019 Jul Aug Sep	Qtr 4, 2019 Oct
367	Material Available for Installation	0 days	Fri 3/15/19	Fri 3/15/19	Fri 1/18/19	Fri 1/18/19	366										
368	Vendor O&M Prep Time	40 days	Mon 1/7/19	Fri 3/1/19	Mon 11/5/18	Fri 1/4/19	365						1/7	3/1			
369	Felix In-House O&M Review	10 days	Mon 3/4/19	Fri 3/15/19	Mon 1/7/19	Fri 1/18/19	368						3/4	3/15			
370	City/Engineer O&M Review	15 days	Mon 3/18/19	Fri 4/5/19	Mon 1/21/19	Fri 2/8/19	369						3/18	4/5			
371	Address O&M Review Comments	20 days	Mon 4/8/19	Fri 5/3/19	Mon 2/11/19	Fri 3/8/19	370						4/8	5/3			
372	Submit Final O&M	1 day	Tue 7/2/19	Tue 7/2/19	Tue 5/28/19	Tue 5/28/19	371,611								7/2	7/2	
373	23 82 39.16 - Propeller Unit Heaters	192 days	Fri 9/28/18	Tue 7/2/19	Thu 8/2/18	Tue 5/28/19											
374	Issue PO to Vendor	5 days	Fri 9/28/18	Thu 10/4/18	Thu 8/2/18	Wed 8/8/18							9/28	10/4			
375	Vendor Submittal Prep Time	30 days	Fri 10/5/18	Thu 11/15/18	Thu 8/9/18	Thu 9/20/18	374						10/5	11/15			
376	Felix In-House Review	5 days	Fri 11/16/18	Mon 11/26/18	Fri 9/21/18	Thu 9/27/18	375						11/16	11/26			
377	City / Engineer Review	15 days	Tue 11/27/18	Mon 12/17/18	Fri 9/28/18	Thu 10/18/18	376						11/27	12/17			
378	Release for Fabrication	1 day	Tue 12/18/18	Tue 12/18/18	Fri 10/19/18	Fri 10/19/18	377						12/18	12/18			
379	Manufacture & Deliver	40 days	Wed 12/19/18	Fri 2/15/19	Mon 10/22/18	Tue 12/18/18	378						12/19	2/15			
380	Material Available for Installation	0 days	Fri 2/15/19	Fri 2/15/19	Tue 12/18/18	Tue 12/18/18	379							2/15			
381	Vendor O&M Prep Time	40 days	Wed 12/19/18	Fri 2/15/19	Mon 10/22/18	Tue 12/18/18	378						12/19	2/15			
382	Felix In-House O&M Review	10 days	Mon 2/18/19	Fri 3/1/19	Wed 12/19/18	Fri 1/4/19	381							2/18	3/1		
383	City/Engineer O&M Review	15 days	Mon 3/4/19	Fri 3/22/19	Mon 1/7/19	Fri 1/25/19	382							3/4	3/22		
384	Address O&M Review Comments	20 days	Mon 3/25/19	Fri 4/19/19	Mon 1/28/19	Fri 2/22/19	383							3/25	4/19		
385	Submit Final O&M	1 day	Tue 7/2/19	Tue 7/2/19	Tue 5/28/19	Tue 5/28/19	384,611								7/2	7/2	
386	Division 26 - Electrical	254 days	Mon 7/2/18	Tue 7/2/19	Thu 7/26/18	Tue 5/28/19											
387	General Electrical Submittals	46 days	Fri 9/28/18	Tue 12/4/18	Thu 7/26/18	Fri 10/26/18	44										
388	Issue PO to Vendor	5 days	Fri 9/28/18	Thu 10/4/18	Thu 7/26/18	Wed 8/1/18							9/28	10/4			
389	Vendor Submittal Prep Time	10 days	Fri 10/5/18	Thu 10/18/18	Thu 8/2/18	Wed 8/29/18	388						10/5	10/18			

Project: 1859 - Keller Alta Vista PS
Date: Mon 10/1/18

Baseline

Task

Critical Task

Milestone

Summary

Rolled Up Task

Rolled Up Critical Task

Rolled Up Milestone

Rolled Up Progress

Split

External Tasks

Project Summary

Group By Summary

Inactive Milestone

Inactive Summary

Manual Task

Duration-only

Manual Summary Rollup

Manual Summary

Start-only

Finish-only

External Tasks

External Milestone

Progress

Deadline



Keller - Alta Vista Pump Station



ID	Task Name	Duration	Start	Finish	Baseline Start	Baseline Finish	Predecessors	017 Sep	Qtr 4, 2017 Oct Nov Dec	Qtr 1, 2018 Jan Feb Mar	Qtr 2, 2018 Apr May Jun	Qtr 3, 2018 Jul Aug Sep	Qtr 4, 2018 Oct Nov Dec	Qtr 1, 2019 Jan Feb Mar	Qtr 2, 2019 Apr May Jun	Qtr 3, 2019 Jul Aug Sep	Qtr 4, 2019 Oct Nov Dec
390	Felix In-House Review	5 days	Fri 10/19/18	Thu 10/25/18	Thu 8/30/18	Thu 9/6/18	389						10/19 10/25				
391	City / Engineer Review	15 days	Fri 10/26/18	Thu 11/15/18	Fri 9/7/18	Thu 9/27/18	390						10/26 11/15				
392	Release for Fabrication	1 day	Fri 11/16/18	Fri 11/16/18	Fri 9/28/18	Fri 9/28/18	391						11/16 11/16				
393	Manufacture & Deliver	10 days	Mon 11/19/18	Tue 12/4/18	Mon 10/1/18	Fri 10/26/18	392						11/19 12/4				
394	Material Available for Installation	0 days	Tue 12/4/18	Tue 12/4/18	Fri 10/26/18	Fri 10/26/18	393						12/4				
395	26 24 13 - 600 Volt Switchboards	192 days	Fri 9/28/18	Tue 7/2/19	Thu 7/26/18	Tue 5/28/19	44										
396	Issue PO to Vendor	5 days	Fri 9/28/18	Thu 10/4/18	Thu 7/26/18	Wed 8/1/18	37						9/28 10/4				
397	Vendor Submittal Prep Time	30 days	Fri 10/5/18	Thu 11/15/18	Thu 8/2/18	Thu 9/13/18	396						10/5 11/15				
398	Felix In-House Review	5 days	Fri 11/16/18	Mon 11/26/18	Fri 9/14/18	Thu 9/20/18	397						11/16 11/26				
399	City / Engineer Review	15 days	Tue 11/27/18	Mon 12/17/18	Fri 9/21/18	Thu 10/11/18	398						11/27 12/17				
400	Release for Fabrication	1 day	Tue 12/18/18	Tue 12/18/18	Fri 10/12/18	Fri 10/12/18	399						12/18 12/18				
401	Manufacture & Deliver	60 days	Wed 12/19/18	Fri 3/15/19	Mon 10/15/18	Fri 1/11/19	400						12/19 3/15				
402	Material Available for Installation	0 days	Fri 3/15/19	Fri 3/15/19	Fri 1/11/19	Fri 1/11/19	401						3/15				
403	Vendor O&M Prep Time	40 days	Wed 12/19/18	Fri 2/15/19	Mon 10/15/18	Tue 12/11/18	400						12/19 2/15				
404	Felix In-House O&M Review	10 days	Mon 2/18/19	Fri 3/1/19	Wed 12/12/18	Thu 12/27/18	403						2/18 3/1				
405	City/Engineer O&M Review	15 days	Mon 3/4/19	Fri 3/22/19	Fri 12/28/18	Fri 1/18/19	404						3/4 3/22				
406	Address O&M Review Comments	25 days	Mon 3/25/19	Fri 4/26/19	Mon 1/21/19	Fri 2/22/19	405						3/25 4/26				
407	Submit Final O&M	1 day	Tue 7/2/19	Tue 7/2/19	Tue 5/28/19	Tue 5/28/19	406,611						7/2 7/2				
408	26 29 33.11 - Variable Frequency Drives	192 days	Fri 9/28/18	Tue 7/2/19	Thu 7/26/18	Tue 5/28/19	44										
409	Issue PO to Vendor	5 days	Fri 9/28/18	Thu 10/4/18	Thu 7/26/18	Wed 8/1/18	37						9/28 10/4				
410	Vendor Submittal Prep Time	25 days	Fri 10/5/18	Thu 11/8/18	Thu 8/2/18	Thu 9/13/18	409						10/5 11/8				
411	Felix In-House Review	5 days	Fri 11/9/18	Thu 11/15/18	Fri 9/14/18	Thu 9/20/18	410						11/9 11/15				
412	City / Engineer Review	15 days	Fri 11/16/18	Mon 12/10/18	Fri 9/21/18	Thu 10/11/18	411						11/16 12/10				

Project: 1859 - Keller Alta Vista PS
Date: Mon 10/1/18

Baseline

Task

Critical Task

Milestone

Summary

Rolled Up Task

Rolled Up Critical Task

Rolled Up Milestone

Rolled Up Progress

Split

External Tasks

Project Summary

Group By Summary

Inactive Milestone

Inactive Summary

Manual Task

Duration-only

Manual Summary Rollup

Manual Summary

Start-only

Finish-only

External Tasks

External Milestone

Progress

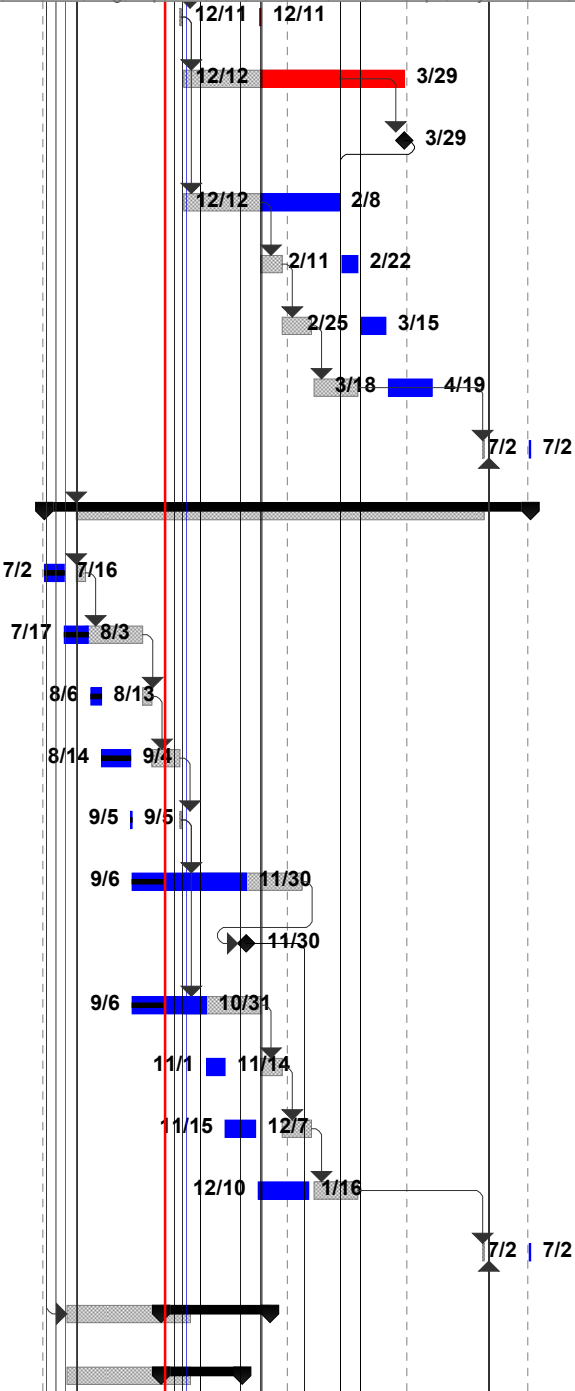
Deadline



Keller - Alta Vista Pump Station



ID	Task Name	Duration	Start	Finish	Baseline Start	Baseline Finish	Predecessors	017 Sep	Qtr 4, 2017 Oct Nov Dec	Qtr 1, 2018 Jan Feb Mar	Qtr 2, 2018 Apr May Jun	Qtr 3, 2018 Jul Aug Sep	Qtr 4, 2018 Oct Nov Dec	Qtr 1, 2019 Jan Feb Mar	Qtr 2, 2019 Apr May Jun	Qtr 3, 2019 Jul Aug Sep	Qtr 4, 2019 Oct Nov Dec
413	Release for Fabrication	1 day	Tue 12/11/18	Tue 12/11/18	Fri 10/12/18	Fri 10/12/18	412						12/11	12/11			
414	Manufacture & Deliver	75 days	Wed 12/12/18	Fri 3/29/19	Mon 10/15/18	Fri 2/8/19	413						12/12	3/29			
415	Material Available for Installation	0 days	Fri 3/29/19	Fri 3/29/19	Fri 2/8/19	Fri 2/8/19	414							3/29			
416	Vendor O&M Prep Time	40 days	Wed 12/12/18	Fri 2/8/19	Mon 10/15/18	Tue 12/11/18	413						12/12	2/8			
417	Felix In-House O&M Review	10 days	Mon 2/11/19	Fri 2/22/19	Wed 12/12/18	Thu 12/27/18	416							2/11	2/22		
418	City/Engineer O&M Review	15 days	Mon 2/25/19	Fri 3/15/19	Fri 12/28/18	Fri 1/18/19	417							2/25	3/15		
419	Address O&M Review Comments	25 days	Mon 3/18/19	Fri 4/19/19	Mon 1/21/19	Fri 2/22/19	418							3/18	4/19		
420	Submit Final O&M	1 day	Tue 7/2/19	Tue 7/2/19	Tue 5/28/19	Tue 5/28/19	419,611								7/2	7/2	
421	26 32 13 - Packaged Engine Generators	254 days	Mon 7/2/18	Tue 7/2/19	Thu 7/26/18	Tue 5/28/19	11										
422	Issue PO to Vendor	10 days	Mon 7/2/18	Mon 7/16/18	Thu 7/26/18	Wed 8/1/18	11										
423	Vendor Submittal Prep Time	14 days	Tue 7/17/18	Fri 8/3/18	Thu 8/2/18	Thu 9/13/18	422										
424	Felix In-House Review	6 days	Mon 8/6/18	Mon 8/13/18	Fri 9/14/18	Thu 9/20/18	423										
425	City / Engineer Review	15 days	Tue 8/14/18	Tue 9/4/18	Fri 9/21/18	Thu 10/11/18	424										
426	Release for Fabrication	1 day	Wed 9/5/18	Wed 9/5/18	Fri 10/12/18	Fri 10/12/18	425										
427	Manufacture & Deliver	60 days	Thu 9/6/18	Fri 11/30/18	Mon 10/15/18	Fri 1/11/19	426										
428	Material Available for Installation	0 days	Fri 11/30/18	Fri 11/30/18	Fri 1/11/19	Fri 1/11/19	427										
429	Vendor O&M Prep Time	40 days	Thu 9/6/18	Wed 10/31/18	Mon 10/15/18	Tue 12/11/18	426										
430	Felix In-House O&M Review	10 days	Thu 11/1/18	Wed 11/14/18	Wed 12/12/18	Thu 12/27/18	429										
431	City/Engineer O&M Review	15 days	Thu 11/15/18	Fri 12/7/18	Fri 12/28/18	Fri 1/18/19	430										
432	Address O&M Review Comments	25 days	Mon 12/10/18	Wed 1/16/19	Mon 1/21/19	Fri 2/22/19	431										
433	Submit Final O&M	1 day	Tue 7/2/19	Tue 7/2/19	Tue 5/28/19	Tue 5/28/19	432,611										
434	Division 31 - Earthwork	56 days	Fri 9/28/18	Tue 12/18/18	Thu 7/19/18	Fri 10/19/18	44										
435	31 23 10 - Structural Excavation and Backfill	41 days	Fri 9/28/18	Tue 11/27/18	Thu 7/19/18	Fri 10/19/18											



Project: 1859 - Keller Alta Vista PS
Date: Mon 10/1/18

Baseline

Task

Critical Task

Milestone

Summary

Rolled Up Task

Rolled Up Critical Task

Rolled Up Milestone

Rolled Up Progress

Split

External Tasks

Project Summary

Group By Summary

Inactive Milestone

Inactive Summary

Manual Task

Duration-only

Manual Summary Rollup

Manual Summary

Start-only

Finish-only

External Tasks

External Milestone

Progress

Deadline



Keller - Alta Vista Pump Station



ID	Task Name	Duration	Start	Finish	Baseline Start	Baseline Finish	Predecessors	017 Sep	Qtr 4, 2017 Oct Nov Dec	Qtr 1, 2018 Jan Feb Mar	Qtr 2, 2018 Apr May Jun	Qtr 3, 2018 Jul Aug Sep	Qtr 4, 2018 Oct Nov Dec	Qtr 1, 2019 Jan Feb Mar	Qtr 2, 2019 Apr May Jun	Qtr 3, 2019 Jul Aug Sep	Qtr 4, 2019 Oct Nov Dec
436	Issue PO to Vendor	5 days	Fri 9/28/18	Thu 10/4/18	Thu 7/19/18	Wed 7/25/18	29					9/28	10/4				
437	Vendor Submittal Prep Time	10 days	Fri 10/5/18	Thu 10/18/18	Thu 7/26/18	Wed 8/22/18	436					10/5	10/18				
438	Felix In-House Review	5 days	Fri 10/19/18	Thu 10/25/18	Thu 8/23/18	Wed 8/29/18	437					10/19	10/25				
439	City / Engineer Review	15 days	Fri 10/26/18	Thu 11/15/18	Thu 8/30/18	Thu 9/20/18	438					10/26	11/15				
440	Release for Fabrication	1 day	Fri 11/16/18	Fri 11/16/18	Fri 9/21/18	Fri 9/21/18	439					11/16	11/16				
441	Manufacture & Deliver	5 days	Mon 11/19/18	Tue 11/27/18	Mon 9/24/18	Fri 10/19/18	440					11/19	11/27				
442	Material Available for Installation	0 days	Tue 11/27/18	Tue 11/27/18	Fri 10/19/18	Fri 10/19/18	441					11/27	11/27				
443	31 23 23.34 - Flowable Fill	56 days	Fri 9/28/18	Tue 12/18/18	Thu 7/19/18	Fri 10/5/18											
444	Issue PO to Vendor	5 days	Fri 9/28/18	Thu 10/4/18	Thu 7/19/18	Wed 7/25/18	29					9/28	10/4				
445	Vendor Submittal Prep Time	20 days	Fri 10/5/18	Thu 11/1/18	Thu 7/26/18	Wed 8/22/18	444					10/5	11/1				
446	Felix In-House Review	5 days	Fri 11/2/18	Thu 11/8/18	Thu 8/23/18	Wed 8/29/18	445					11/2	11/8				
447	City / Engineer Review	15 days	Fri 11/9/18	Mon 12/3/18	Thu 8/30/18	Thu 9/20/18	446					11/9	12/3				
448	Release for Fabrication	1 day	Tue 12/4/18	Tue 12/4/18	Fri 9/21/18	Fri 9/21/18	447					12/4	12/4				
449	Manufacture & Deliver	10 days	Wed 12/5/18	Tue 12/18/18	Mon 9/24/18	Fri 10/5/18	448					12/5	12/18				
450	Material Available for Installation	0 days	Tue 12/18/18	Tue 12/18/18	Fri 10/5/18	Fri 10/5/18	449					12/18	12/18				
451	Division 32 - Exterior Improvements	66 days	Fri 9/28/18	Fri 1/4/19	Thu 7/19/18	Fri 10/19/18	44										
452	32 01 26 & 32 01 29 - Rigid Pavement Rehab and Repair	66 days	Fri 9/28/18	Fri 1/4/19	Thu 7/19/18	Fri 10/19/18											
453	Issue PO to Vendor	5 days	Fri 9/28/18	Thu 10/4/18	Thu 7/19/18	Wed 7/25/18	29					9/28	10/4				
454	Vendor Submittal Prep Time	25 days	Fri 10/5/18	Thu 11/8/18	Thu 7/26/18	Wed 8/29/18	453					10/5	11/8				
455	Felix In-House Review	5 days	Fri 11/9/18	Thu 11/15/18	Thu 8/30/18	Thu 9/6/18	454					11/9	11/15				
456	City / Engineer Review	15 days	Fri 11/16/18	Mon 12/10/18	Fri 9/7/18	Thu 9/27/18	455					11/16	12/10				
457	Release for Fabrication	1 day	Tue 12/11/18	Tue 12/11/18	Fri 9/28/18	Fri 9/28/18	456					12/11	12/11				
458	Manufacture & Deliver	15 days	Wed 12/12/18	Fri 1/4/19	Mon 10/1/18	Fri 10/19/18	457					12/12	1/4				

Project: 1859 - Keller Alta Vista PS
Date: Mon 10/1/18

Baseline

Task

Critical Task

Milestone

Summary

Rolled Up Task

Rolled Up Critical Task

Rolled Up Milestone

Rolled Up Progress

Split

External Tasks

Project Summary

Group By Summary

Inactive Milestone

Inactive Summary

Manual Task

Duration-only

Manual Summary Rollup

Manual Summary

Start-only

Finish-only

External Tasks

External Milestone

Progress

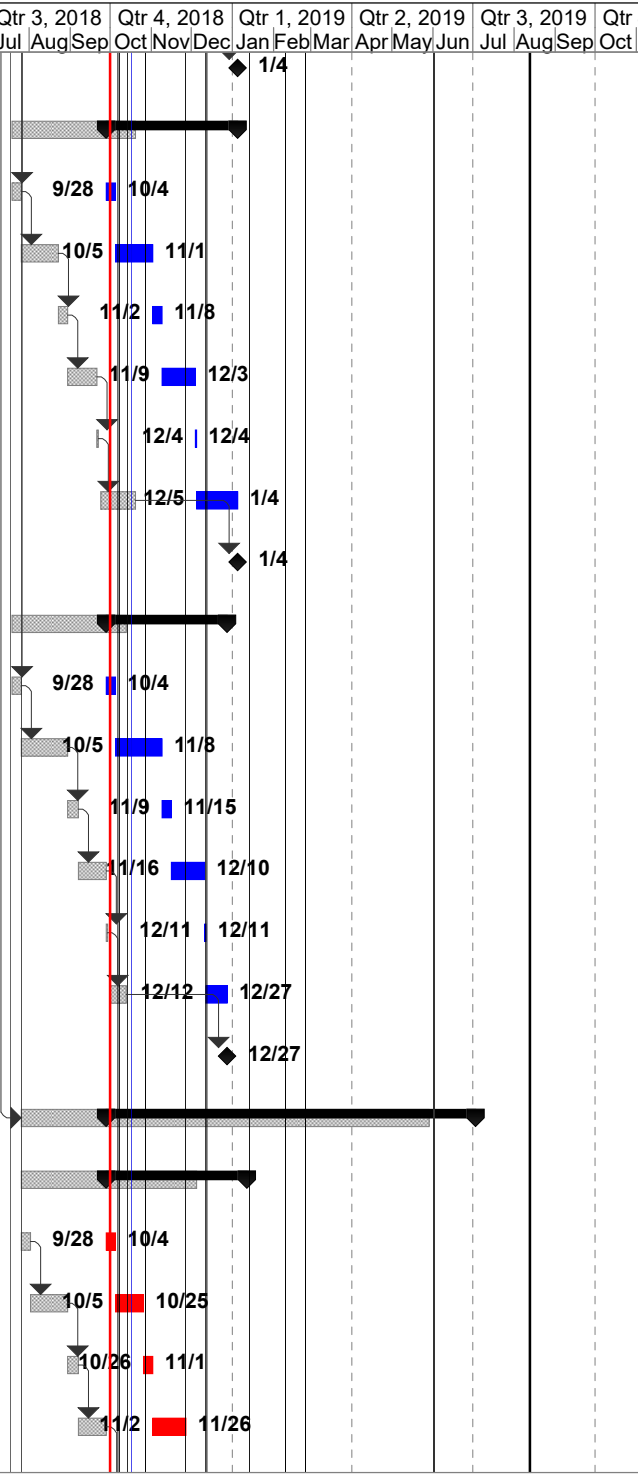
Deadline



Keller - Alta Vista Pump Station



ID	Task Name	Duration	Start	Finish	Baseline Start	Baseline Finish	Predecessors	017 Sep	Qtr 4, 2017 Oct Nov Dec	Qtr 1, 2018 Jan Feb Mar	Qtr 2, 2018 Apr May Jun	Qtr 3, 2018 Jul Aug Sep	Qtr 4, 2018 Oct Nov Dec	Qtr 1, 2019 Jan Feb Mar	Qtr 2, 2019 Apr May Jun	Qtr 3, 2019 Jul Aug Sep	Qtr 4, 2019 Oct Nov Dec
459	Material Available for Installation	0 days	Fri 1/4/19	Fri 1/4/19	Fri 10/19/18	Fri 10/19/18	458										
460	32 31 13 - Chain Link Fences and Gates	66 days	Fri 9/28/18	Fri 1/4/19	Thu 7/19/18	Fri 10/19/18											
461	Issue PO to Vendor	5 days	Fri 9/28/18	Thu 10/4/18	Thu 7/19/18	Wed 7/25/18	29										
462	Vendor Submittal Prep Time	20 days	Fri 10/5/18	Thu 11/1/18	Thu 7/26/18	Wed 8/22/18	461										
463	Felix In-House Review	5 days	Fri 11/2/18	Thu 11/8/18	Thu 8/23/18	Wed 8/29/18	462										
464	City / Engineer Review	15 days	Fri 11/9/18	Mon 12/3/18	Thu 8/30/18	Thu 9/20/18	463										
465	Release for Fabrication	1 day	Tue 12/4/18	Tue 12/4/18	Fri 9/21/18	Fri 9/21/18	464										
466	Manufacture & Deliver	20 days	Wed 12/5/18	Fri 1/4/19	Mon 9/24/18	Fri 10/19/18	465										
467	Material Available for Installation	0 days	Fri 1/4/19	Fri 1/4/19	Fri 10/19/18	Fri 10/19/18	466										
468	32 92 13 - Hydromulching	61 days	Fri 9/28/18	Thu 12/27/18	Thu 7/19/18	Fri 10/12/18											
469	Issue PO to Vendor	5 days	Fri 9/28/18	Thu 10/4/18	Thu 7/19/18	Wed 7/25/18	29										
470	Vendor Submittal Prep Time	25 days	Fri 10/5/18	Thu 11/8/18	Thu 7/26/18	Wed 8/29/18	469										
471	Felix In-House Review	5 days	Fri 11/9/18	Thu 11/15/18	Thu 8/30/18	Thu 9/6/18	470										
472	City / Engineer Review	15 days	Fri 11/16/18	Mon 12/10/18	Fri 9/7/18	Thu 9/27/18	471										
473	Release for Fabrication	1 day	Tue 12/11/18	Tue 12/11/18	Fri 9/28/18	Fri 9/28/18	472										
474	Manufacture & Deliver	10 days	Wed 12/12/18	Thu 12/27/18	Mon 10/1/18	Fri 10/12/18	473										
475	Material Available for Installation	0 days	Thu 12/27/18	Thu 12/27/18	Fri 10/12/18	Fri 10/12/18	474										
476	Division 33 - Utilities	192 days	Fri 9/28/18	Tue 7/2/19	Thu 7/26/18	Tue 5/28/19	44										
477	33 11 13.13 - Steel Pipe	71 days	Fri 9/28/18	Fri 1/11/19	Thu 7/26/18	Tue 12/4/18											
478	Issue PO to Vendor	5 days	Fri 9/28/18	Thu 10/4/18	Thu 7/26/18	Wed 8/1/18											
479	Vendor Submittal Prep Time	15 days	Fri 10/5/18	Thu 10/25/18	Thu 8/2/18	Wed 8/29/18	478										
480	Felix In-House Review	5 days	Fri 10/26/18	Thu 11/1/18	Thu 8/30/18	Thu 9/6/18	479										
481	City / Engineer Review	15 days	Fri 11/2/18	Mon 11/26/18	Fri 9/7/18	Thu 9/27/18	480										



Project: 1859 - Keller Alta Vista PS Date: Mon 10/1/18	Baseline		Rolled Up Task		External Tasks		Manual Task		Finish-only	
	Task		Rolled Up Critical Task		Project Summary		Duration-only		External Tasks	
	Critical Task		Rolled Up Milestone		Group By Summary		Manual Summary Rollup		External Milestone	
	Milestone		Rolled Up Progress		Inactive Milestone		Manual Summary		Progress	
	Summary		Split		Inactive Summary		Start-only		Deadline	



Keller - Alta Vista Pump Station



ID	Task Name	Duration	Start	Finish	Baseline Start	Baseline Finish	Predecessors	017 Sep	Qtr 4, 2017 Oct Nov Dec	Qtr 1, 2018 Jan Feb Mar	Qtr 2, 2018 Apr May Jun	Qtr 3, 2018 Jul Aug Sep	Qtr 4, 2018 Oct Nov Dec	Qtr 1, 2019 Jan Feb Mar	Qtr 2, 2019 Apr May Jun	Qtr 3, 2019 Jul Aug Sep	Qtr 4, 2019 Oct Nov Dec
482	Release for Fabrication	1 day	Tue 11/27/18	Tue 11/27/18	Fri 9/28/18	Fri 9/28/18	481						11/27	11/27			
483	Manufacture & Deliver	30 days	Wed 11/28/18	Fri 1/11/19	Mon 10/1/18	Tue 12/4/18	482						11/28	1/11			
484	Material Available for Installation	0 days	Fri 1/11/19	Fri 1/11/19	Tue 12/4/18	Tue 12/4/18	483							1/11			
485	33 12 16.13 - Miscellaneous Valves	91 days	Fri 9/28/18	Fri 2/8/19	Thu 7/26/18	Tue 12/4/18											
486	Issue PO to Vendor	5 days	Fri 9/28/18	Thu 10/4/18	Thu 7/26/18	Wed 8/1/18						9/28	10/4				
487	Vendor Submittal Prep Time	20 days	Fri 10/5/18	Thu 11/1/18	Thu 8/2/18	Wed 8/29/18	486					10/5	11/1				
488	Felix In-House Review	5 days	Fri 11/2/18	Thu 11/8/18	Thu 8/30/18	Thu 9/6/18	487					11/2	11/8				
489	City / Engineer Review	15 days	Fri 11/9/18	Mon 12/3/18	Fri 9/7/18	Thu 9/27/18	488					11/9	12/3				
490	Release for Fabrication	1 day	Tue 12/4/18	Tue 12/4/18	Fri 9/28/18	Fri 9/28/18	489						12/4	12/4			
491	Manufacture & Deliver	45 days	Wed 12/5/18	Fri 2/8/19	Mon 10/1/18	Tue 12/4/18	490						12/5	2/8			
492	Material Available for Installation	0 days	Fri 2/8/19	Fri 2/8/19	Tue 12/4/18	Tue 12/4/18	491							2/8			
493	33 12 16.16 - Air Release and Air Vacuum Valves	192 days	Fri 9/28/18	Tue 7/2/19	Thu 7/26/18	Tue 5/28/19											
494	Issue PO to Vendor	5 days	Fri 9/28/18	Thu 10/4/18	Thu 7/26/18	Wed 8/1/18						9/28	10/4				
495	Vendor Submittal Prep Time	30 days	Fri 10/5/18	Thu 11/15/18	Thu 8/2/18	Thu 9/13/18	494					10/5	11/15				
496	Felix In-House Review	5 days	Fri 11/16/18	Mon 11/26/18	Fri 9/14/18	Thu 9/20/18	495					11/16	11/26				
497	City / Engineer Review	15 days	Tue 11/27/18	Mon 12/17/18	Fri 9/21/18	Thu 10/11/18	496					11/27	12/17				
498	Release for Fabrication	1 day	Tue 12/18/18	Tue 12/18/18	Fri 10/12/18	Fri 10/12/18	497						12/18	12/18			
499	Manufacture & Deliver	40 days	Wed 12/19/18	Fri 2/15/19	Mon 10/15/18	Tue 12/11/18	498						12/19	2/15			
500	Material Available for Installation	0 days	Fri 2/15/19	Fri 2/15/19	Tue 12/11/18	Tue 12/11/18	499							2/15			
501	Vendor O&M Prep Time	40 days	Wed 12/19/18	Fri 2/15/19	Mon 10/15/18	Tue 12/11/18	498						12/19	2/15			
502	Felix In-House O&M Review	10 days	Mon 2/18/19	Fri 3/1/19	Wed 12/12/18	Thu 12/27/18	501							2/18	3/1		
503	City/Engineer O&M Review	15 days	Mon 3/4/19	Fri 3/22/19	Fri 12/28/18	Fri 1/18/19	502							3/4	3/22		
504	Address O&M Review Comments	20 days	Mon 3/25/19	Fri 4/19/19	Mon 1/21/19	Fri 2/15/19	503								3/25	4/19	

Project: 1859 - Keller Alta Vista PS
Date: Mon 10/1/18

Baseline

Task

Critical Task

Milestone

Summary

Rolled Up Task

Rolled Up Critical Task

Rolled Up Milestone

Rolled Up Progress

Split

External Tasks

Project Summary

Group By Summary

Inactive Milestone

Inactive Summary

Manual Task

Duration-only

Manual Summary Rollup

Manual Summary

Start-only

Finish-only

External Tasks

External Milestone

Progress

Deadline



Keller - Alta Vista Pump Station



ID	Task Name	Duration	Start	Finish	Baseline Start	Baseline Finish	Predecessors	017 Sep	Qtr 4, 2017 Oct	Qtr 1, 2018 Jan	Qtr 2, 2018 Apr	Qtr 3, 2018 Jul	Qtr 4, 2018 Oct	Qtr 1, 2019 Jan	Qtr 2, 2019 Apr	Qtr 3, 2019 Jul	Qtr 4, 2019 Oct
505	Submit Final O&M	1 day	Tue 7/2/19	Tue 7/2/19	Tue 5/28/19	Tue 5/28/19	504,611										
506	33 12 16.23 - Gate Valves	192 days	Fri 9/28/18	Tue 7/2/19	Thu 7/26/18	Tue 5/28/19											
507	Issue PO to Vendor	5 days	Fri 9/28/18	Thu 10/4/18	Thu 7/26/18	Wed 8/1/18											
508	Vendor Submittal Prep Time	30 days	Fri 10/5/18	Thu 11/15/18	Thu 8/2/18	Thu 9/13/18	507										
509	Felix In-House Review	5 days	Fri 11/16/18	Mon 11/26/18	Fri 9/14/18	Thu 9/20/18	508										
510	City / Engineer Review	15 days	Tue 11/27/18	Mon 12/17/18	Fri 9/21/18	Thu 10/11/18	509										
511	Release for Fabrication	1 day	Tue 12/18/18	Tue 12/18/18	Fri 10/12/18	Fri 10/12/18	510										
512	Manufacture & Deliver	40 days	Wed 12/19/18	Fri 2/15/19	Mon 10/15/18	Tue 12/11/18	511										
513	Material Available for Installation	0 days	Fri 2/15/19	Fri 2/15/19	Tue 12/11/18	Tue 12/11/18	512										
514	Vendor O&M Prep Time	40 days	Wed 12/19/18	Fri 2/15/19	Mon 10/15/18	Tue 12/11/18	511										
515	Felix In-House O&M Review	10 days	Mon 2/18/19	Fri 3/1/19	Wed 12/12/18	Thu 12/27/18	514										
516	City/Engineer O&M Review	15 days	Mon 3/4/19	Fri 3/22/19	Fri 12/28/18	Fri 1/18/19	515										
517	Address O&M Review Comments	20 days	Mon 3/25/19	Fri 4/19/19	Mon 1/21/19	Fri 2/15/19	516										
518	Submit Final O&M	1 day	Tue 7/2/19	Tue 7/2/19	Tue 5/28/19	Tue 5/28/19	517,611										
519	33 12 16.26 - Butterfly Valves	192 days	Fri 9/28/18	Tue 7/2/19	Thu 7/26/18	Tue 5/28/19											
520	Issue PO to Vendor	5 days	Fri 9/28/18	Thu 10/4/18	Thu 7/26/18	Wed 8/1/18											
521	Vendor Submittal Prep Time	25 days	Fri 10/5/18	Thu 11/8/18	Thu 8/2/18	Thu 9/6/18	520										
522	Felix In-House Review	5 days	Fri 11/9/18	Thu 11/15/18	Fri 9/7/18	Thu 9/13/18	521										
523	City / Engineer Review	15 days	Fri 11/16/18	Mon 12/10/18	Fri 9/14/18	Thu 10/4/18	522										
524	Release for Fabrication	1 day	Tue 12/11/18	Tue 12/11/18	Fri 10/5/18	Fri 10/5/18	523										
525	Manufacture & Deliver	30 days	Wed 12/12/18	Fri 1/25/19	Mon 10/8/18	Fri 11/16/18	524										
526	Material Available for Installation	0 days	Fri 1/25/19	Fri 1/25/19	Fri 11/16/18	Fri 11/16/18	525										
527	Vendor O&M Prep Time	40 days	Wed 12/12/18	Fri 2/8/19	Mon 10/8/18	Tue 12/4/18	524										

Project: 1859 - Keller Alta Vista PS
Date: Mon 10/1/18

Baseline

Task

Critical Task

Milestone

Summary

Rolled Up Task

Rolled Up Critical Task

Rolled Up Milestone

Rolled Up Progress

Split

External Tasks

Project Summary

Group By Summary

Inactive Milestone

Inactive Summary

Manual Task

Duration-only

Manual Summary Rollup

Manual Summary

Start-only

Finish-only

External Tasks

External Milestone

Progress

Deadline



Keller - Alta Vista Pump Station



ID	Task Name	Duration	Start	Finish	Baseline Start	Baseline Finish	Predecessors	Q1 2017	Q4 2017	Q1 2018	Q2 2018	Q3 2018	Q4 2018	Q1 2019	Q2 2019	Q3 2019	Q4 2019
528	Felix In-House O&M Review	10 days	Mon 2/11/19	Fri 2/22/19	Wed 12/5/18	Tue 12/18/18	527										
529	City/Engineer O&M Review	15 days	Mon 2/25/19	Fri 3/15/19	Wed 12/19/18	Fri 1/11/19	528										
530	Address O&M Review Comments	20 days	Mon 3/18/19	Fri 4/12/19	Mon 1/14/19	Fri 2/8/19	529										
531	Submit Final O&M	1 day	Tue 7/2/19	Tue 7/2/19	Tue 5/28/19	Tue 5/28/19	530,611										
532	33 12 16.33 - Swing Check Valves	192 days	Fri 9/28/18	Tue 7/2/19	Thu 7/26/18	Tue 5/28/19											
533	Issue PO to Vendor	5 days	Fri 9/28/18	Thu 10/4/18	Thu 7/26/18	Wed 8/1/18											
534	Vendor Submittal Prep Time	30 days	Fri 10/5/18	Thu 11/15/18	Thu 8/2/18	Thu 9/13/18	533										
535	Felix In-House Review	5 days	Fri 11/16/18	Mon 11/26/18	Fri 9/14/18	Thu 9/20/18	534										
536	City / Engineer Review	15 days	Tue 11/27/18	Mon 12/17/18	Fri 9/21/18	Thu 10/11/18	535										
537	Release for Fabrication	1 day	Tue 12/18/18	Tue 12/18/18	Fri 10/12/18	Fri 10/12/18	536										
538	Manufacture & Deliver	50 days	Wed 12/19/18	Fri 3/1/19	Mon 10/15/18	Thu 12/27/18	537										
539	Material Available for Installation	0 days	Fri 3/1/19	Fri 3/1/19	Thu 12/27/18	Thu 12/27/18	538										
540	Vendor O&M Prep Time	40 days	Wed 12/19/18	Fri 2/15/19	Mon 10/15/18	Tue 12/11/18	537										
541	Felix In-House O&M Review	10 days	Mon 2/18/19	Fri 3/1/19	Wed 12/12/18	Thu 12/27/18	540										
542	City/Engineer O&M Review	15 days	Mon 3/4/19	Fri 3/22/19	Fri 12/28/18	Fri 1/18/19	541										
543	Address O&M Review Comments	20 days	Mon 3/25/19	Fri 4/19/19	Mon 1/21/19	Fri 2/15/19	542										
544	Submit Final O&M	1 day	Tue 7/2/19	Tue 7/2/19	Tue 5/28/19	Tue 5/28/19	543,611										
545	Division 41 - Material Processing and Handling Equipment	192 days	Fri 9/28/18	Tue 7/2/19	Thu 8/2/18	Tue 5/28/19	44										
546	41 22 13.13 - Bridge Crane	192 days	Fri 9/28/18	Tue 7/2/19	Thu 8/2/18	Tue 5/28/19											
547	Issue PO to Vendor	5 days	Fri 9/28/18	Thu 10/4/18	Thu 8/2/18	Wed 8/8/18											
548	Vendor Submittal Prep Time	30 days	Fri 10/5/18	Thu 11/15/18	Thu 8/9/18	Thu 9/20/18	547										
549	Felix In-House Review	5 days	Fri 11/16/18	Mon 11/26/18	Fri 9/21/18	Thu 9/27/18	548										
550	City / Engineer Review	15 days	Tue 11/27/18	Mon 12/17/18	Fri 9/28/18	Thu 10/18/18	549										

Project: 1859 - Keller Alta Vista PS
Date: Mon 10/1/18

Baseline

Task

Critical Task

Milestone

Summary

Rolled Up Task

Rolled Up Critical Task

Rolled Up Milestone

Rolled Up Progress

Split

External Tasks

Project Summary

Group By Summary

Inactive Milestone

Inactive Summary

Manual Task

Duration-only

Manual Summary Rollup

Manual Summary

Start-only

Finish-only

External Tasks

External Milestone

Progress

Deadline



Keller - Alta Vista Pump Station



ID		Task Name	Duration	Start	Finish	Baseline Start	Baseline Finish	Predecessors	017 Sep	Qtr 4, 2017 Oct Nov Dec	Qtr 1, 2018 Jan Feb Mar	Qtr 2, 2018 Apr May Jun	Qtr 3, 2018 Jul Aug Sep	Qtr 4, 2018 Oct Nov Dec	Qtr 1, 2019 Jan Feb Mar	Qtr 2, 2019 Apr May Jun	Qtr 3, 2019 Jul Aug Sep	Qtr 4, 2019 Oct
551		Release for Fabrication	1 day	Tue 12/18/18	Tue 12/18/18	Fri 10/19/18	Fri 10/19/18	550						12/18	12/18			
552		Manufacture & Deliver	35 days	Wed 12/19/18	Fri 2/8/19	Mon 10/22/18	Tue 12/11/18	551						12/19	2/8			
553		Material Available for Installation	0 days	Fri 2/8/19	Fri 2/8/19	Tue 12/11/18	Tue 12/11/18	552							2/8			
554		Vendor O&M Prep Time	40 days	Wed 12/19/18	Fri 2/15/19	Mon 10/22/18	Tue 12/18/18	551						12/19	2/15			
555		Felix In-House O&M Review	10 days	Mon 2/18/19	Fri 3/1/19	Wed 12/19/18	Fri 1/4/19	554							2/18	3/1		
556		City/Engineer O&M Review	15 days	Mon 3/4/19	Fri 3/22/19	Mon 1/7/19	Fri 1/25/19	555							3/4	3/22		
557		Address O&M Review Comments	20 days	Mon 3/25/19	Fri 4/19/19	Mon 1/28/19	Fri 2/22/19	556							3/25	4/19		
558		Submit Final O&M	1 day	Tue 7/2/19	Tue 7/2/19	Tue 5/28/19	Tue 5/28/19	557,611									7/2	7/2
559		Division 44 - Pollution and Waste Control Equipment	245 days	Mon 7/16/18	Tue 7/2/19	Thu 7/26/18	Tue 5/28/19	8										
560		44 42 56.10 - Horizontal Centrifugal Pumping Units	245 days	Mon 7/16/18	Tue 7/2/19	Thu 7/26/18	Tue 5/28/19											
561	✓	Issue PO to Vendor	21 days	Mon 7/16/18	Mon 8/13/18	Thu 7/26/18	Wed 8/1/18	8						7/16	8/13			
562	✓	Vendor Submittal Prep Time	22 days	Tue 8/14/18	Thu 9/13/18	Thu 8/2/18	Thu 9/13/18	561						8/14	9/13			
563	✓	Felix In-House Review	6 days	Fri 9/14/18	Fri 9/21/18	Fri 9/14/18	Thu 9/20/18	562						9/14	9/21			
564		City / Engineer Review	15 days	Mon 9/24/18	Fri 10/12/18	Fri 9/21/18	Thu 10/11/18	563						9/24	10/12			
565		Release for Fabrication	1 day	Mon 10/15/18	Mon 10/15/18	Fri 10/12/18	Fri 10/12/18	564						10/15	10/15			
566		Manufacture & Deliver	80 days	Tue 10/16/18	Mon 2/11/19	Mon 10/15/18	Fri 2/8/19	565						10/16	2/11			
567		Material Available for Installation	0 days	Mon 2/11/19	Mon 2/11/19	Fri 2/8/19	Fri 2/8/19	566							2/11			
568		Vendor O&M Prep Time	40 days	Mon 10/15/18	Tue 12/11/18	Fri 10/12/18	Mon 12/10/18	564						10/15	12/11			
569		Felix In-House O&M Review	10 days	Wed 12/12/18	Thu 12/27/18	Tue 12/11/18	Wed 12/26/18	568						12/12	12/27			
570		City/Engineer O&M Review	15 days	Fri 12/28/18	Fri 1/18/19	Thu 12/27/18	Thu 1/17/19	569						12/28	1/18			
571		Address O&M Review Comments	20 days	Mon 1/21/19	Fri 2/15/19	Fri 1/18/19	Thu 2/14/19	570							1/21	2/15		
572		Submit Final O&M	1 day	Tue 7/2/19	Tue 7/2/19	Tue 5/28/19	Tue 5/28/19	571,611									7/2	7/2
573		Construction Activities	142 days	Thu 10/11/18	Fri 5/3/19	Mon 10/8/18	Fri 3/29/19	2										

Project: 1859 - Keller Alta Vista PS
Date: Mon 10/1/18

Baseline

Task

Critical Task

Milestone

Summary

◆

Rolled Up Task

Rolled Up Critical Task

Rolled Up Milestone

Rolled Up Progress

Split

External Tasks

Project Summary

Group By Summary

Inactive Milestone

Inactive Summary

Manual Task

Duration-only

Manual Summary Rollup

Manual Summary

Start-only

◆

◆

◆

Finish-only

External Tasks

External Milestone

Progress

Deadline

◆

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Keller - Alta Vista Pump Station



ID	Task Name	Duration	Start	Finish	Baseline Start	Baseline Finish	Predecessors	017 Sep	Qtr 4, 2017 Oct Nov Dec	Qtr 1, 2018 Jan Feb Mar	Qtr 2, 2018 Apr May Jun	Qtr 3, 2018 Jul Aug Sep	Qtr 4, 2018 Oct Nov Dec	Qtr 1, 2019 Jan Feb Mar	Qtr 2, 2019 Apr May Jun	Qtr 3, 2019 Jul Aug Sep	Qtr 4, 2019 Oct
574	Katy Road Pump Station	11 days	Thu 11/1/18	Thu 11/15/18	NA	NA											
575	Make Electrical Modifications	5 days	Thu 11/1/18	Wed 11/7/18	NA	NA	15FS-26 days						11/1 11/7				
576	Install Electrical Equipment	5 days	Thu 11/8/18	Wed 11/14/18	NA	NA	575						11/8 11/14				
577	Hook Up Temp Generator	1 day	Thu 11/15/18	Thu 11/15/18	NA	NA	576						11/15 11/15				
578	F/P/S Concrete Pad	5 days	Thu 11/8/18	Wed 11/14/18	NA	NA	575						11/8 11/14				
579	Install Generator	1 day	Thu 11/15/18	Thu 11/15/18	NA	NA	578						11/15 11/15				
580	City of Fort Worth Pump Station CFA Deadline	0 days	Thu 10/11/18	Thu 10/11/18	Thu 10/11/18	Thu 10/11/18							10/11				
581	New Pump Station	115 days	Mon 11/19/18	Fri 5/3/19	Mon 10/8/18	Fri 3/29/19											
582	Demo of Existing Pump Station	10 days	Mon 11/19/18	Tue 12/4/18	Mon 10/8/18	Fri 10/19/18	74,576						11/19 12/4				
583	Over Exc and Recompect Pump Station	5 days	Wed 12/5/18	Tue 12/11/18	Mon 10/22/18	Fri 10/26/18	582,442						12/5 12/11				
584	E/L/B Ductbanks Under Slab (Electrical Room)	10 days	Wed 12/12/18	Thu 12/27/18	Mon 10/29/18	Fri 11/9/18	394,583						12/12 12/27				
585	F/P/S Electrical Room Slab	7 days	Fri 12/28/18	Tue 1/8/19	Mon 11/12/18	Tue 11/20/18	84,584,92						12/28 1/8				
586	E/L/B Pipe Under Slab	5 days	Mon 1/14/19	Fri 1/18/19	Wed 12/5/18	Tue 12/11/18	484,585						1/14 1/18				
587	E/L/B Ductbanks Under Slab (Pump Room)	5 days	Fri 12/28/18	Fri 1/4/19	Mon 11/12/18	Fri 11/16/18	394,584						12/28 1/4				
588	F/P/S Pump Room Slab	10 days	Mon 1/21/19	Fri 2/1/19	Wed 12/12/18	Thu 12/27/18	586,587,84,585,9						1/21 2/1				
589	Erect Building	40 days	Mon 2/4/19	Fri 3/29/19	Fri 12/28/18	Fri 2/22/19	585,588,101						2/4 3/29				
590	Install Above Ground Conduit	15 days	Mon 4/1/19	Fri 4/19/19	Mon 2/25/19	Fri 3/15/19	589						4/1 4/19				
591	Install Above Ground Piping and Pumps	10 days	Mon 4/1/19	Fri 4/12/19	Mon 2/25/19	Fri 3/8/19	567,589						4/1 4/12				
592	Install HVAC and Plumbing	20 days	Mon 4/1/19	Fri 4/26/19	Mon 2/25/19	Fri 3/22/19	589,367,380,346						4/1 4/26				
593	Install Building Trim and Accessories	20 days	Mon 4/1/19	Fri 4/26/19	Mon 2/25/19	Fri 3/22/19	589,553						4/1 4/26				
594	Install Electrical Gear	5 days	Mon 4/1/19	Fri 4/5/19	Mon 2/25/19	Fri 3/1/19	402,415,589						4/1 4/5				
595	Permanent Utilities Available on Site (Power)	0 days	Fri 4/5/19	Fri 4/5/19	Fri 3/1/19	Fri 3/1/19	594						4/5				
596	Pull Wire and Terminate	20 days	Mon 4/8/19	Fri 5/3/19	Mon 3/4/19	Fri 3/29/19	595						4/8 5/3				

Project: 1859 - Keller Alta Vista PS
Date: Mon 10/1/18

Baseline

Task

Critical Task

Milestone

Summary

Rolled Up Task

Rolled Up Critical Task

Rolled Up Milestone

Rolled Up Progress

Split

External Tasks

Project Summary

Group By Summary

Inactive Milestone

Inactive Summary

Manual Task

Duration-only

Manual Summary Rollup

Manual Summary

Start-only

Finish-only

External Tasks

External Milestone

Progress

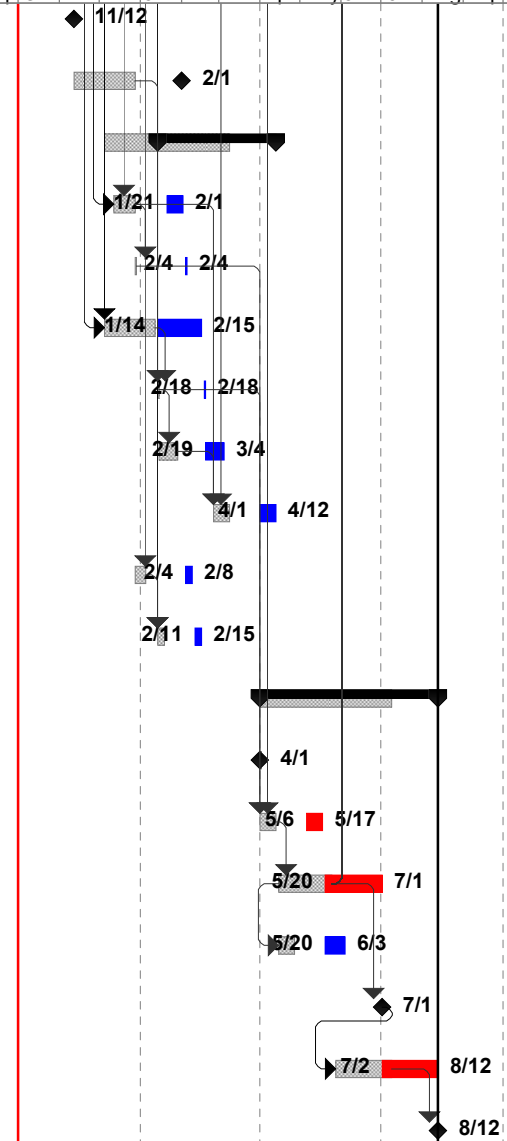
Deadline



Keller - Alta Vista Pump Station



ID	Task Name	Duration	Start	Finish	Baseline Start	Baseline Finish	Predecessors	2017 Sep	Qtr 4, 2017 Oct	Qtr 4, 2017 Nov	Qtr 1, 2018 Dec	Qtr 1, 2018 Jan	Qtr 1, 2018 Feb	Qtr 1, 2018 Mar	Qtr 2, 2018 Apr	Qtr 2, 2018 May	Qtr 2, 2018 Jun	Qtr 3, 2018 Jul	Qtr 3, 2018 Aug	Qtr 3, 2018 Sep	Qtr 4, 2018 Oct	Qtr 4, 2018 Nov	Qtr 4, 2018 Dec	Qtr 1, 2019 Jan	Qtr 1, 2019 Feb	Qtr 1, 2019 Mar	Qtr 2, 2019 Apr	Qtr 2, 2019 May	Qtr 2, 2019 Jun	Qtr 3, 2019 Jul	Qtr 3, 2019 Aug	Qtr 3, 2019 Sep	Qtr 3, 2019 Oct	
597	<div><div></div><div>City of Fort Worth Pipeline CFA Deadline</div></div>	0 days	Mon 11/12/18	Mon 11/12/18	Mon 11/12/18	Mon 11/12/18																	<div><div></div><div>11/12</div></div>											
598	<div><div></div><div>Jack and Bore Pipeline Connection Ready</div></div>	0 days	Fri 2/1/19	Fri 2/1/19	Mon 11/12/18	Thu 12/27/18																<div><div></div><div>2/1</div></div>												
599	<div><div></div><div>Site Improvements</div></div>	65 days	Mon 1/14/19	Fri 4/12/19	Wed 12/5/18	Fri 3/8/19																<div><div></div><div>1/14</div></div>	<div><div></div><div>2/15</div></div>											
600	<div><div></div><div>E/L/B Suction Piping</div></div>	10 days	Mon 1/21/19	Fri 2/1/19	Wed 12/12/18	Thu 12/27/18	484,586															<div><div></div><div>1/21</div></div>	<div><div></div><div>2/1</div></div>											
601	<div><div></div><div>Critical Tie-In #1</div></div>	1 day	Mon 2/4/19	Mon 2/4/19	Fri 12/28/18	Fri 12/28/18	600															<div><div></div><div>2/4</div></div>	<div><div></div><div>2/4</div></div>											
602	<div><div></div><div>E/L/B Discharge Piping</div></div>	25 days	Mon 1/14/19	Fri 2/15/19	Wed 12/5/18	Fri 1/11/19	580,484															<div><div></div><div>1/14</div></div>	<div><div></div><div>2/15</div></div>											
603	<div><div></div><div>Critical Tie-In #2</div></div>	1 day	Mon 2/18/19	Mon 2/18/19	Mon 1/14/19	Mon 1/14/19	602,598															<div><div></div><div>2/18</div></div>	<div><div></div><div>2/18</div></div>											
604	<div><div></div><div>Chain Link Fence Improvements</div></div>	10 days	Tue 2/19/19	Mon 3/4/19	Tue 1/15/19	Mon 1/28/19	603															<div><div></div><div>2/19</div></div>	<div><div></div><div>3/4</div></div>											
605	<div><div></div><div>Paving Improvements</div></div>	10 days	Mon 4/1/19	Fri 4/12/19	Mon 2/25/19	Fri 3/8/19	600,589,604															<div><div></div><div>4/1</div></div>	<div><div></div><div>4/12</div></div>											
606	<div><div></div><div>F/P/S Generator Pad</div></div>	5 days	Mon 2/4/19	Fri 2/8/19	Fri 12/28/18	Fri 1/4/19	588															<div><div></div><div>2/4</div></div>	<div><div></div><div>2/8</div></div>											
607	<div><div></div><div>Set Generator and Terminate Wires</div></div>	5 days	Mon 2/11/19	Fri 2/15/19	Mon 1/14/19	Fri 1/18/19	606,428															<div><div></div><div>2/11</div></div>	<div><div></div><div>2/15</div></div>											
608	<div><div></div><div>Project Closeout Activities</div></div>	95 days	Mon 4/1/19	Mon 8/12/19	Mon 4/1/19	Mon 7/8/19																												
609	<div><div></div><div>Possible Bypass Pumping</div></div>	0 days	Mon 4/1/19	Mon 4/1/19	Mon 4/1/19	Mon 4/1/19																												
610	<div><div></div><div>Contractor Testing</div></div>	10 days	Mon 5/6/19	Fri 5/17/19	Mon 4/1/19	Fri 4/12/19	596,603,601																											
611	<div><div></div><div>Owner / Engineer Performance Testing</div></div>	30 days	Mon 5/20/19	Mon 7/1/19	Mon 4/15/19	Fri 5/24/19	610																											
612	<div><div></div><div>Training</div></div>	10 days	Mon 5/20/19	Mon 6/3/19	Mon 4/15/19	Fri 4/26/19	611SS																											
613	<div><div></div><div>Substantial Completion</div></div>	0 days	Mon 7/1/19	Mon 7/1/19	Fri 5/24/19	Fri 5/24/19	611																											
614	<div><div></div><div>Commissioning / Punch List</div></div>	30 days	Tue 7/2/19	Mon 8/12/19	Tue 5/28/19	Mon 7/8/19	613																											
615	<div><div></div><div>Final Completion</div></div>	0 days	Mon 8/12/19	Mon 8/12/19	Mon 7/8/19	Mon 7/8/19	614																											



Project: 1859 - Keller Alta Vista PS
Date: Mon 10/1/18

Baseline		Rolled Up Task		External Tasks		Manual Task		Finish-only	
Task		Rolled Up Critical Task		Project Summary		Duration-only		External Tasks	
Critical Task		Rolled Up Milestone		Group By Summary		Manual Summary Rollup		External Milestone	
Milestone		Rolled Up Progress		Inactive Milestone		Manual Summary		Progress	
Summary		Split		Inactive Summary		Start-only		Deadline	

Schedule of Values

Item No.	DESCRIPTION OF ITEM	Bid Qty	Unit of Measure	Total Contract Unit Price	Total Contract Amount	Quantity Complete This Est.	Value of Work Completed This Estimate	Previous Quantity Completed	Value of Previous Work Complete	Total Quantity Complete	Total Value of Work Complete	% of Work Completed
Article 2 - Preconstruction Services												
1	Preconstruction Services Fee	1	LS	\$57,400.00	\$57,400.00		\$0.00	0.8	\$45,920.00	0.8	\$45,920.00	80.00%
	SUBTOTAL				\$57,400.00		\$0.00		\$45,920.00		\$45,920.00	80.00%
Article 3 - Procurement Services												
2	Procurement Services	1	LS	\$37,600.00	\$37,600.00		\$0.00	0.6	\$22,560.00	0.6	\$22,560.00	60.00%
	SUBTOTAL				\$37,600.00		\$0.00		\$22,560.00		\$22,560.00	60.00%
Article 4 - Construction Services (Early Work Packages + Bid Packages = GMP)												
3	Amendment No. 2 - EWP No. 1 - Flow Meter Procurement	1	NTE	\$9,401.00	\$9,401.00		\$0.00		\$0.00	0	\$0.00	0.00%
4	Amendment No. 3 - EWP No. 2 - Pumps & Motors Procurement	1	NTE	\$530,679.00	\$530,679.00		\$0.00		\$0.00	0	\$0.00	0.00%
5	Amendment No. 4 - EWP No. 3 - Generator Procurement	1	NTE	\$291,124.00	\$291,124.00		\$0.00		\$0.00	0	\$0.00	0.00%
6	Amendment No. 5 - EWP No. 4 - Katy Road Generator Procurement	1	NTE	\$81,874.00	\$81,874.00		\$0.00		\$0.00	0	\$0.00	0.00%
7	Amendment No. 6 - Final GMP											
A	General Conditions	1	LS	\$301,919.00	\$301,919.00		\$0.00		\$0.00	0	\$0.00	0.00%
B	General Requirements	1	LS	\$50,000.00	\$50,000.00		\$0.00		\$0.00	0	\$0.00	0.00%
C	Bonds	1	LS	\$44,027.00	\$44,027.00		\$0.00		\$0.00	0	\$0.00	0.00%
D	CMAR Fee	1	LS	\$371,012.00	\$371,012.00		\$0.00		\$0.00	0	\$0.00	0.00%
E	Demo											
1	Demo Building	1	LS	\$67,000.00	\$67,000.00		\$0.00		\$0.00	0	\$0.00	0.00%
2	Demo Pipe	1	LS	\$9,266.00	\$9,266.00		\$0.00		\$0.00	0	\$0.00	0.00%
F	Remove and Replace Chain Link Fence	1	LS	\$71,383.00	\$71,383.00		\$0.00		\$0.00	0	\$0.00	0.00%
G	Civil Improvements											
1	Excavation of Pump Station Foundation	1	LS	\$53,200.00	\$53,200.00		\$0.00		\$0.00	0	\$0.00	0.00%
2	Backfill of Pump Station Foundation	1	LS	\$79,800.00	\$79,800.00		\$0.00		\$0.00	0	\$0.00	0.00%
3	Ashpalt Paving and Repairs	1	LS	\$80,000.00	\$80,000.00		\$0.00		\$0.00	0	\$0.00	0.00%
4	Hydromulching	36,524	SF	\$0.25	\$9,131.00		\$0.00		\$0.00	0	\$0.00	0.00%
5	Final Grading and Clean Up	1	LS	\$25,000.00	\$25,000.00		\$0.00		\$0.00	0	\$0.00	0.00%
6	Oil & Gas Line Protection	1	LS	\$25,000.00	\$25,000.00		\$0.00		\$0.00	0	\$0.00	0.00%
7	Concrete Pavement Subgrade Prep	1	LS	\$25,000.00	\$25,000.00		\$0.00		\$0.00	0	\$0.00	0.00%
8	Generator Pad Subgrade Prep	1	LS	\$10,000.00	\$10,000.00		\$0.00		\$0.00	0	\$0.00	0.00%
9	Equipment Pads Subgrade Prep	1	LS	\$10,000.00	\$10,000.00		\$0.00		\$0.00	0	\$0.00	0.00%
10	FW Meter Vault Excavation	1	LS	\$45,000.00	\$45,000.00		\$0.00		\$0.00	0	\$0.00	0.00%
11	FW Meter Vault Backfill	1	LS	\$40,000.00	\$40,000.00		\$0.00		\$0.00	0	\$0.00	0.00%
12	FW Gate Valve Vaults	1	LS	\$47,500.00	\$47,500.00		\$0.00		\$0.00	0	\$0.00	0.00%

Schedule of Values

Item No.	DESCRIPTION OF ITEM	Bid Qty	Unit of Measure	Total Contract Unit Price	Total Contract Amount	Quantity Complete This Est.	Value of Work Completed This Estimate	Previous Quantity Completed	Value of Previous Work Complete	Total Quantity Complete	Total Value of Work Complete	% of Work Completed
H	Concrete											
1	Drilled Piers	1	LS	\$65,000.00	\$65,000.00		\$0.00		\$0.00	0	\$0.00	0.00%
2	F/P/S Building Foundation	1	LS	\$150,000.00	\$150,000.00		\$0.00		\$0.00	0	\$0.00	0.00%
3	F/P/S Generator Foundation	1	LS	\$15,000.00	\$15,000.00		\$0.00		\$0.00	0	\$0.00	0.00%
4	F/P/S Misc. Equipment Pads and Housekeeping Pads	1	LS	\$35,000.00	\$35,000.00		\$0.00		\$0.00	0	\$0.00	0.00%
5	F/P/S FW Meter Vault Slab On Grade	1	LS	\$35,000.00	\$35,000.00		\$0.00		\$0.00	0	\$0.00	0.00%
6	F/P/S FW Meter Vault Walls	1	LS	\$64,500.00	\$64,500.00		\$0.00		\$0.00	0	\$0.00	0.00%
7	F/P/S Meter Vault Suspended Slab	1	LS	\$40,000.00	\$40,000.00		\$0.00		\$0.00	0	\$0.00	0.00%
8	F/P/S Sidewalk	1	LS	\$26,000.00	\$26,000.00		\$0.00		\$0.00	0	\$0.00	0.00%
9	F/P/S Concrete Pavenment	1	LS	\$50,000.00	\$50,000.00		\$0.00		\$0.00	0	\$0.00	0.00%
I	Masonry	1	LS	\$250,000.00	\$250,000.00		\$0.00		\$0.00	0	\$0.00	0.00%
J	Miscellaneous Metals											
1	Install Metal Decking and Joists	1	LS	\$90,000.00	\$90,000.00		\$0.00		\$0.00	0	\$0.00	0.00%
2	Furnish Metal Decking and Joists	1	LS	\$77,500.00	\$77,500.00		\$0.00		\$0.00	0	\$0.00	0.00%
3	Miscellaneous Metals Fabricaitons	1	LS	\$80,000.00	\$80,000.00		\$0.00		\$0.00	0	\$0.00	0.00%
4	Install Misc. Metal Fabrications	1	LS	\$25,000.00	\$25,000.00		\$0.00		\$0.00	0	\$0.00	0.00%
5	FW Meter Vault Misc. Metals	1	LS	\$17,500.00	\$17,500.00		\$0.00		\$0.00	0	\$0.00	0.00%
K	Standing Seam Roof	1	LS	\$90,000.00	\$90,000.00		\$0.00		\$0.00	0	\$0.00	0.00%
L	Doors and Windows											
1	Furnish and Install Hollow Metal Doors	1	LS	\$22,500.00	\$22,500.00		\$0.00		\$0.00	0	\$0.00	0.00%
2	Furnish and Install Windows and Glazing	1	LS	\$55,000.00	\$55,000.00		\$0.00		\$0.00	0	\$0.00	0.00%
3	Furnish and Install Overhead Door	1	LS	\$15,000.00	\$15,000.00		\$0.00		\$0.00	0	\$0.00	0.00%
4	Furnish and Install Wall Openings	1	LS	\$15,000.00	\$15,000.00		\$0.00		\$0.00	0	\$0.00	0.00%
M	Finishes											
1	FW Meter Vault Paintings and Coatings	1	LS	\$15,889.00	\$15,889.00		\$0.00		\$0.00	0	\$0.00	0.00%
2	Pump Station Painting and Coatings	1	LS	\$44,500.00	\$44,500.00		\$0.00		\$0.00	0	\$0.00	0.00%
N	Specialties											
1	Safety Signs	1	LS	\$2,500.00	\$2,500.00		\$0.00		\$0.00	0	\$0.00	0.00%
2	Fire Extinguishers	1	LS	\$2,500.00	\$2,500.00		\$0.00		\$0.00	0	\$0.00	0.00%
O	Install Pumps	1	LS	\$20,000.00	\$20,000.00		\$0.00		\$0.00	0	\$0.00	0.00%
P	Furnish and Install Bridge Crane	1	LS	\$100,000.00	\$100,000.00		\$0.00		\$0.00	0	\$0.00	0.00%
Q	Mechanical											
1	Furnish and Install Plumbing and Fixtures	1	LS	\$60,000.00	\$60,000.00		\$0.00		\$0.00	0	\$0.00	0.00%
2	Furnish and Install HVAC	1	LS	\$275,000.00	\$275,000.00		\$0.00		\$0.00	0	\$0.00	0.00%
3	Furnish Pipe Valves and Fittings	1	Ls	\$775,000.00	\$775,000.00		\$0.00		\$0.00	0	\$0.00	0.00%
8	E/L/B Line A	110	LF	\$350.00	\$38,500.00		\$0.00		\$0.00	0	\$0.00	0.00%
4	E/L/B Line B	52	LF	\$350.00	\$18,200.00		\$0.00		\$0.00	0	\$0.00	0.00%
5	E/L/B Line C	25	LF	\$375.00	\$9,375.00		\$0.00		\$0.00	0	\$0.00	0.00%
6	E/L/B Line D	250	LF	\$325.00	\$81,250.00		\$0.00		\$0.00	0	\$0.00	0.00%
7	E/L/B Line E	15	LF	\$350.00	\$5,250.00		\$0.00		\$0.00	0	\$0.00	0.00%
8	E/L/B FW Meter Valt Piping	85	LF	\$325.00	\$27,625.00		\$0.00		\$0.00	0	\$0.00	0.00%
9	E/L/B Critical Tie-Ins	2	EA	\$12,500.00	\$25,000.00		\$0.00		\$0.00	0	\$0.00	0.00%
10	E/L/B Sanitary Sewer	100	LF	\$150.00	\$15,000.00		\$0.00		\$0.00	0	\$0.00	0.00%
11	Install Pump Station Piping	1	LS	\$50,000.00	\$50,000.00		\$0.00		\$0.00	0	\$0.00	0.00%
12	Instal Valve Vault Piping	1	LS	\$17,500.00	\$17,500.00		\$0.00		\$0.00	0	\$0.00	0.00%

Schedule of Values

Item No.	DESCRIPTION OF ITEM	Bid Qty	Unit of Measure	Total Contract Unit Price	Total Contract Amount	Quantity Complete This Est.	Value of Work Completed This Estimate	Previous Quantity Completed	Value of Previous Work Complete	Total Quantity Complete	Total Value of Work Complete	% of Work Completed
R	Electrical											
1	Bonds	1	LS	\$15,500.00	\$15,500.00		\$0.00		\$0.00	0	\$0.00	0.00%
2	Mobilization	1	LS	\$5,500.00	\$5,500.00		\$0.00		\$0.00	0	\$0.00	0.00%
3	E/L/B Underground Electrical	1	LS	\$176,000.00	\$176,000.00		\$0.00		\$0.00	0	\$0.00	0.00%
4	E/L/B Exposed Conduit & Fittings	1	LS	\$142,000.00	\$142,000.00		\$0.00		\$0.00	0	\$0.00	0.00%
5	Slab Rough-Ins	1	LS	\$18,000.00	\$18,000.00		\$0.00		\$0.00	0	\$0.00	0.00%
6	Power Distribution	1	LS	\$138,000.00	\$138,000.00		\$0.00		\$0.00	0	\$0.00	0.00%
7	VFD Package	1	LS	\$315,500.00	\$315,500.00		\$0.00		\$0.00	0	\$0.00	0.00%
8	Wire & Cable	1	LS	\$168,000.00	\$168,000.00		\$0.00		\$0.00	0	\$0.00	0.00%
9	Manholes / Pull & Junction Boxes	1	LS	\$28,000.00	\$28,000.00		\$0.00		\$0.00	0	\$0.00	0.00%
10	Lightning Protection	1	LS	\$12,500.00	\$12,500.00		\$0.00		\$0.00	0	\$0.00	0.00%
11	Lighting	1	LS	\$29,000.00	\$29,000.00		\$0.00		\$0.00	0	\$0.00	0.00%
12	Cable Tray	1	LS	\$13,000.00	\$13,000.00		\$0.00		\$0.00	0	\$0.00	0.00%
13	Testing of Electrical Systems	1	LS	\$25,500.00	\$25,500.00		\$0.00		\$0.00	0	\$0.00	0.00%
14	Grounding and Bonding	1	LS	\$18,000.00	\$18,000.00		\$0.00		\$0.00	0	\$0.00	0.00%
15	Instrumentation & Controls	1	LS	\$92,045.00	\$92,045.00		\$0.00		\$0.00	0	\$0.00	0.00%
S	Allowance: Katy Road Gen. Installation	1	LS	\$50,000.00	\$50,000.00		\$0.00		\$0.00	0	\$0.00	0.00%
T	Contingency Funds	1	LS	\$150,000.00	\$150,000.00		\$0.00		\$0.00	0	\$0.00	0.00%
	SUBTOTAL				\$6,474,950.00		\$0.00		\$0.00		\$0.00	0.00%
	TOTAL				\$6,569,950.00		\$0.00		\$68,480.00		\$68,480.00	1.04%

EXHIBIT 2
List of Specifications and Drawings and CMAR Executed Forms

Early Out Package 1:

- 01 33 00 Submittal Procedures
- 40 90 01.01 Flow Meter
- 00 91 13 Addendum 1 issued 4/3/18
- Keller Early Work Package Amendment 2.EWP-1.Flow Meter.06-08-18
- Amendment 2

Early Out Package 2:

- 01 33 00 Submittal Procedures
- 01 33 00.01 Table of Required Submittals
- 01 40 00 Quality Requirements
- 01 78 23 Operation and Maintenance Data
- 44 42 56.10 Horizontal Centrifugal Pumping Units
- 00 91 12 Technical Addendum Number 1 issued 7/8/18
- Early Work Package No. 2.AVPS Pump Station.Pumps and Motors.07-26-18
- Amendment 3

Early Out Package 3:

- 01 33 00 Submittal Procedures
- 01 33 00.01 Table of Required Submittals
- 01 40 00 Quality Requirements
- 01 78 23 Operation and Maintenance Data
- 26 05 00 Common Work Results for Electrical
- 26 01 19 Low Voltage Electrical Conductors & Cables
- 26 05 19.01 Wire Connections and Devices
- 26 05 26 Grounding and Bonding for Electrical Systems
- 26 05 33.01 Conduits
- 26 05 33.03 Outlet Boxes
- 26 05 53 Identification for Electrical Systems
- 26 24 16.02 Lighting and Branch Panelboards
- 26 27 26 Wiring Devices
- 26 32 13 Packaged Engine Generators
- 26 50 00 Lighting
- Early Work Package No. 3.AVPS Pump Station.Generators.07-26-18
- Amendment 3

Early Out Package 4:

- Early Work Package #4 – Final
- Amendment 3

Specs:

Division / Section	Title
Division 00	Procurement and Contracting Requirements
00 01 10	Table of Contents
00 01 15	List of Drawing Sheets
Division 01	General Requirements
01 33 00	Submittal Procedures
01 33 00.01	Table of Required Submittals
01 35 00	Special Procedures
01 40 00	Quality Requirements
01 40 01	IBC Special Inspections
01 50 00	Temporary Facilities and Controls
01 57 00	Temporary Controls
01 60 00	Product Requirements
01 70 00	Execution and Closeout Requirements
01 74 23	Final Cleaning
01 75 00	Starting and Adjusting
01 78 23	Operation and Maintenance Data
Division 02	Existing Conditions
02 41 00	Demolition
Division 03	Concrete
03 30 00	Cast-In-Place Concrete
Division 04	Masonry
04 22 00	Concrete Unit Masonry
Division 05	Metals
05 05 13	Galvanizing
05 12 00	Structural Steel Framing

Division / Section	Title
05 50 00	Metal Fabrications
05 51 00	Metal Stairs
05 52 13	Pipe and Tube Railings
Division 06	Woods, Plastics, and Composites
06 10 00	Rough Carpentry
Division 07	Thermal and Moisture Protection
07 21 00	Thermal Insulation
07 27 26	Fluid-Applied Membrane Air Barriers
07 41 13	Metal Roof Panels
07 42 16	Insulated-Core Metal Wall Panels
07 92 00	Joint Sealants
Division 08	Openings
08 31 13	Access Doors and Frames
08 33 23	Overhead Coiling Doors
08 71 00	Door Hardware
08 80 00	Glazing
08 90 00	Louvers and Vents
Division 09	Finishes
09 29 00	Gypsum Board
09 91 00	Painting
09 97 13	Pipeline Coatings and Linings
Division 10	Specialties
10 28 00	Toilet, Bath, and Laundry Accessories
10 44 16	Fire Extinguishers
Division 22	Plumbing
22 00 01	Plumbing Systems

Division / Section	Title
Division 23	HVAC
23 00 00	Heating, Ventilating, and Air Conditioning
23 05 13	Common Motor Requirements for HVAC Equipment
23 05 53	Identification for HVAC Piping and Equipment
23 05 93	Testing, Adjusting, and Balancing for HVAC
23 07 13	Duct Insulation
23 31 13	Metal Ducts
23 33 00	Air Duct Accessories
23 34 23	HVAC Power Ventilators
23 37 13	Diffusers, Registers, and Grilles
23 81 26	Split-System Air-Conditioners
23 83 23	Radiant-Heating Electric Panels
Division 26	Electrical
26 01 26	Testing of Electrical Systems
26 05 00	Common Work Results for Electrical
26 05 19	Low Voltage Electrical Conductors and Cables
26 05 19.01	Wire Connections and Devices
26 05 26	Grounding and Bonding for Electrical Systems
26 05 29	Hangers and Supports for Electrical Systems
26 05 33.01	Conduits
26 05 33.02	Wireways
26 05 33.03	Outlet Boxes
26 05 33.04	Pull and Junction Boxes for Electrical Systems
26 05 36	Cable Trays for Electrical Systems
26 05 43.01	Manholes and Concrete Pull Boxes for Electrical Systems
26 05 43.02	Underground Electrical Service
26 05 53	Identification for Electrical Systems
26 22 13	Low Voltage Distribution Transformers
26 24 13	600 Volt Switchboards
26 24 16.02	Lighting and Branch Panelboards
26 27 26	Wiring Devices
26 28 19	Disconnects

Division / Section	Title
26 29 13	Enclosed Controllers
26 29 33.11	Variable Frequency Drives
26 41 13	Lighting Protection for Structures
26 50 00	Lighting
Division 31	Earthwork
31 05 13	Soils for Earthwork
31 05 16.01	Aggregate Fill Classifications
31 10 00.02	Site Clearing
31 23 10	Structural Excavation and Backfill
31 23 23.34	Flowable Fill
31 23 33.14	Trench Safety
31 23 33.16	Trenching and Backfill
31 63 29	Drilled Concrete Shafts
Division 32	Exterior Improvements
32 01 26	Rigid Paving Rehabilitation
32 01 29	Rigid Paving Repair
32 31 13	Chain Link Fences and Gates
32 92 13	Hydro-Mulching
Division 33	Utilities
33 10 13	Disinfecting of Water Utility Distribution
33 11 13.13	Steel Pipe
33 12 16.13	Miscellaneous Valves
33 12 16.16	Air Release and Air and Vacuum Valves
33 12 16.23	Gate Valves
33 12 16.26	Butterfly Valves
33 12 16.33	Swing Check Valves
Division 40	Process Integration
40 90 00	Instrumentation and Controls
40 90 01	Instrumentation

Division / Section	Title
40 90 02	Supervisory Control and Data Acquisition (SCADA) System
40 96 10	Radio Towers
Division 41	Material Processing and Handling Equipment
41 22 13.13	Bridge Cranes

Drawings:

Sheet No.	Title
	GENERAL
	Cover
G-1	Index of Drawings
G-2	General Notes
	CIVIL
C-1	Proposed Site Plan
C-2	Pump Station Control Points
C-3	Demolition Plan
C-4	Site Grading Plan and Drainage Plan
C-5	Yard Piping Plan View
C-6	Yard Piping Profile View
C-7	Yard Piping Lines A, B, C, & E
C-8	Flow Meter and Flow Control Vault Details
C-9	Flow Meter and Flow Control Vault Details
C-10	Pipe Joint Details
C-11	Trench Details
C-12	Fence and Gate Details
C-13	Connection Details
C-14	Pipe Support and Miscellaneous Details
C-15	City of Fort Worth Standard Details
C-16	City of Fort Worth Standard Details
C-17	City of Fort Worth Standard Details
C-18	Paving Details
	PUMP STATION MECHANICAL
P-1	Pump Station Floor Plan
P-2	Pump Station Section View
P-3	Pump Station Details
P-4	Thurst Harness Details
P-5	Miscellaneous Details I
P-6	Miscellaneous Details II

Sheet No.	Title
	STRUCTURAL
S-1	General Notes I
S-2	General Notes II
S-3	Foundation Plan
S-4	CMU Wall Plan
S-5	Roof Framing Plan
S-6	Building Section I
S-7	Building Section II
S-8	Foundation Sections and Details I
S-9	Foundation Sections and Details II
S-10	Roof Framing Details
S-11	Masonry Sections and Details
S-12	Framing Sections and Details
S-13	Meter Vault Plans and Section
S-14	Typical Sections and Details I
S-15	Typical Sections and Details II
	ARCHITECTURAL
A-1	Notes, Code Data and Accessibility
A-2	Floor Plan
A-3	Roof and Reflected Ceiling Plan
A-4	Exterior Elevations
A-5	Building Sections
A-6	Door Schedule and Details
A-7	Enlarged Plan and Interior Elevations
A-8	Building Details
A-9	Building Details
	HVAC
M-1	Legend, Abbreviations and Gen. Notes
M-2	Floor Plan
M-3	Details
M-4	Schedules
	PLUMBING
MP-1	Legend, Abbreviations and Schedules
MP-2	Floor Plan
MP-3	Riser Diagram
	ELECTRICAL
E-1	Legend I
E-2	Legend II
E-3	Site Plan
E-4	Pump Station Underground Plan
E-5	Power and Controls Plan

Sheet No.	Title
E-6	Lighting & Receptacle
E-7	Grounding Plan
E-8	Pump Station Section
E-9	Flow Meter Vault Plan
E-10	One-Line Diagram
E-11	Control Schematic I
E-12	Control Schematics II
E-13	Interconnection Diagram
E-14	Panelboard Schedules
E-15	Duct Bank Details I
E-16	Duct Bank Details II
E-17	Details I
E-18	Details II
	PROCESS & INSTRUMENTATION
PI-1	Legend
PI-2	Process Diagram
PI-3	Loops I
PI-4	Loops II

Addendum 1 Spec and Drawings:

Division / Section	Title
Specifications Modified	
Division 02	Existing Conditions
02 41 00	Demolition
Division 33	Utilities
33 11 13.13	Steel Pipe
33 12 16.26	Butterfly Valves
City of Fort Worth Specifications Added	
Division 33	Utilities
33 11 05	Bolts, Nuts and Gaskets
33 11 10	Ductile Iron Pipe
33 11 11	Ductile Iron Fittings
33 12 21	AWWA Rubber-Seated Butterfly Valves

Drawings Modified
G-1
C-1
C-2
C-3
C-4
C-5
C-6
C-10
C-11
C-17
P-1
P-2

Drawings Added
City of Fort Worth Detail for Potable Combination Air Valve Assembly-2- inch Valve

Addendum 2 Spec and Drawings:

Division / Section	Title	Drawings Modified	Drawings Added
Specifications Modified		E-4	E-19
Division 33	Utilities	E-15	
33 12 16.26	Butterfly Valves		
33 12 16.33	Check Valve		

Addendum 3 Spec and Drawings:

Division / Section	Title	Drawings Modified
Specifications Modified		C-2
Division 32	Exterior Improvements	C-3
32 31 13	Chain Link Fences and Gates	C-8
Division 33	Utilities	C-9
33 12 16.26	Butterfly Valves	C-14

00 42 23.02 CONTRACTOR COMPLIANCE TO STATE LAW

Note to Specifier: The subchapter of Chapter 2252 that contains the requirements for awarding a contract to nonresident bidders does not apply to contracts involving federal funds (see §2252.004).

Chapter 2252 of the Texas Government Code applies to the award of government contract to nonresident Bidders. This law provides that:

“A governmental entity may not award a governmental contract to a nonresident bidder unless the nonresident underbids the lowest bid submitted by a responsible resident bidder by an amount that is not less than the amount by which a resident bidder would be required to underbid the nonresident bidder to obtain a comparable contract in the state in which the nonresident's principal place of business is located.”

“Nonresident bidder” refers to a person who is not a resident of Texas

“Resident bidder” refers to a person whose principal place of business is in this state, including a contractor whose ultimate parent company or majority owner has its principal place of business in this state.

Check the statement that is correct for Bidder.

☐ Nonresident bidders in _____ (give state), our principal place of business, are required to be _____ percent lower than resident bidders by State law. A copy of the statute is attached.

☐ Nonresident bidders in _____ (give state), our principal place of business, are not required to underbid resident bidders.

☐ Our principal place of business or corporate offices are in the State of Texas.

Contractor Name: _____
(typed or printed)

By: _____
(signature -- attach evidence of authority to sign)

Name: _____
(typed or printed)

Title: _____
(typed or printed)

Business address: _____

Phone: _____ Email: _____

END OF SECTION

00 42 23.03 CONTRACTOR COMPLIANCE TO TEXAS SALES TAX CODE

Comply with all requirements of the Texas Sales Tax Code. The Contractor hereby certifies that the Contract Amount is divided as follows:

Material permanently incorporated into the Project and resold to the Owner as defined in Tax Code.

\$ _____

All other charges and costs

\$ _____

Total (Total must equal the Contract Price)

\$ _____

Contractor Name:

(typed or printed)

By:

(signature -- attach evidence of authority to sign)

Name:

(typed or printed)

Title:

(typed or printed)

Business address:

Phone: _____

Email: _____

Execute this form at time of execution of Contract and make a part of the Contract.

Notes:

1. The Total Amount of Bid for Materials and Services must equal the sum of the Total Amount Bid for Materials and the Total Amount Bid for Services as well as the sum of all individual bid items.
2. Materials are those items which are tax exempt and are physically incorporated into the facilities constructed for the Owner. Materials include, but are not limited to, purchased items such as pipe, embedment, concrete, manholes, asphalt, road base, machinery, and equipment, etc.
3. Services are those items which are not tax exempt and are used by the Contractor but are not physically incorporated into the Owner's facilities and/or items that are consumed by construction. Services include, but are not limited to, supplies, tools, concrete forms, scaffolding, temporary buildings, the rental of equipment, skill, and labor, etc.

END OF SECTION

CONFLICT OF INTEREST QUESTIONNAIRE**FORM CIQ****For vendor doing business with local governmental entity****This questionnaire reflects changes made to the law by H.B. 23, 84th Leg., Regular Session.**

This questionnaire is being filed in accordance with Chapter 176, Local Government Code, by a vendor who has a business relationship as defined by Section 176.001(1-a) with a local governmental entity and the vendor meets requirements under Section 176.006(a).

By law this questionnaire must be filed with the records administrator of the local governmental entity not later than the 7th business day after the date the vendor becomes aware of facts that require the statement to be filed. See Section 176.006(a-1), Local Government Code.

A vendor commits an offense if the vendor knowingly violates Section 176.006, Local Government Code. An offense under this section is a misdemeanor.

OFFICE USE ONLY

Date Received

1 Name of vendor who has a business relationship with local governmental entity.

2 ☐ **Check this box if you are filing an update to a previously filed questionnaire.** (The law requires that you file an updated completed questionnaire with the appropriate filing authority not later than the 7th business day after the date on which you became aware that the originally filed questionnaire was incomplete or inaccurate.)

3 Name of local government officer about whom the information is being disclosed.

Name of Officer

4 Describe each employment or other business relationship with the local government officer, or a family member of the officer, as described by Section 176.003(a)(2)(A). Also describe any family relationship with the local government officer. Complete subparts A and B for each employment or business relationship described. Attach additional pages to this Form CIQ as necessary.

A. Is the local government officer or a family member of the officer receiving or likely to receive taxable income, other than investment income, from the vendor?

☐ Yes ☐ No

B. Is the vendor receiving or likely to receive taxable income, other than investment income, from or at the direction of the local government officer or a family member of the officer AND the taxable income is not received from the local governmental entity?

☐ Yes ☐ No

5 Describe each employment or business relationship that the vendor named in Section 1 maintains with a corporation or other business entity with respect to which the local government officer serves as an officer or director, or holds an ownership interest of one percent or more.

6 ☐ Check this box if the vendor has given the local government officer or a family member of the officer one or more gifts as described in Section 176.003(a)(2)(B), excluding gifts described in Section 176.003(a-1).

7

Signature of vendor doing business with the governmental entity

Date

CONFLICT OF INTEREST QUESTIONNAIRE

For vendor doing business with local governmental entity

A complete copy of Chapter 176 of the Local Government Code may be found at <http://www.statutes.legis.state.tx.us/Docs/LG/htm/LG.176.htm>. For easy reference, below are some of the sections cited on this form.

Local Government Code § 176.001(1-a): "Business relationship" means a connection between two or more parties based on commercial activity of one of the parties. The term does not include a connection based on:

- (A) a transaction that is subject to rate or fee regulation by a federal, state, or local governmental entity or an agency of a federal, state, or local governmental entity;
- (B) a transaction conducted at a price and subject to terms available to the public; or
- (C) a purchase or lease of goods or services from a person that is chartered by a state or federal agency and that is subject to regular examination by, and reporting to, that agency.

Local Government Code § 176.003(a)(2)(A) and (B):

- (a) A local government officer shall file a conflicts disclosure statement with respect to a vendor if:

- (2) the vendor:

(A) has an employment or other business relationship with the local government officer or a family member of the officer that results in the officer or family member receiving taxable income, other than investment income, that exceeds \$2,500 during the 12-month period preceding the date that the officer becomes aware that

(i) a contract between the local governmental entity and vendor has been executed;
or

(ii) the local governmental entity is considering entering into a contract with the vendor;

(B) has given to the local government officer or a family member of the officer one or more gifts that have an aggregate value of more than \$100 in the 12-month period preceding the date the officer becomes aware that:

- (i) a contract between the local governmental entity and vendor has been executed; or
- (ii) the local governmental entity is considering entering into a contract with the vendor.

Local Government Code § 176.006(a) and (a-1)

- (a) A vendor shall file a completed conflict of interest questionnaire if the vendor has a business relationship with a local governmental entity and:

(1) has an employment or other business relationship with a local government officer of that local governmental entity, or a family member of the officer, described by Section 176.003(a)(2)(A);

(2) has given a local government officer of that local governmental entity, or a family member of the officer, one or more gifts with the aggregate value specified by Section 176.003(a)(2)(B), excluding any gift described by Section 176.003(a-1); or

(3) has a family relationship with a local government officer of that local governmental entity.

- (a-1) The completed conflict of interest questionnaire must be filed with the appropriate records administrator not later than the seventh business day after the later of:

- (1) the date that the vendor:

(A) begins discussions or negotiations to enter into a contract with the local governmental entity; or

(B) submits to the local governmental entity an application, response to a request for proposals or bids, correspondence, or another writing related to a potential contract with the local governmental entity; or

- (2) the date the vendor becomes aware:

(A) of an employment or other business relationship with a local government officer, or a family member of the officer, described by Subsection (a);

(B) that the vendor has given one or more gifts described by Subsection (a); or

(C) of a family relationship with a local government officer.

00 61 13.13 PERFORMANCE BOND FORM

Contractor as Principal Name: Mailing address (<i>principal place of business</i>):	Surety Name: Mailing address (<i>principal place of business</i>): Physical address(<i>principal place of business</i>):
Owner Name: Mailing address (<i>principal place of business</i>):	Surety is a corporation organized and existing under the laws of the state of: _____ By submitting this bond, Surety affirms their authority to do business in the State of Texas and their license to execute bonds in the State of Texas.
Contract Project name and location: Effective Date of the Agreement: Contract Amount:	Telephone (<i>main number</i>): Telephone (<i>for notice of claim</i>):
Bond Date of Bond (<i>Date of Bond cannot be earlier than Effective Date of Agreement</i>) Bond Amount:	Local Agent for Surety Name: Address: Telephone: <i>The address of the surety company to which any notice of claim should be sent may be obtained from the Texas Department of Insurance by calling the following toll-free telephone number: 1-800-252-3439</i>
<i>Surety and Contractor, intending to be legally bound and obligated to Owner do each cause this Performance Bond to be duly executed on its behalf by its authorized officer, agent or representative. The Principal and Surety bind themselves, and their heirs, administrators, executors, successors and assigns, jointly and severally to this bond. The condition of this obligation is such that if the Contractor as Principal faithfully performs the Work required by the Contract then this obligation shall be null and void; otherwise the obligation is to remain in full force and effect. Provisions of the bond shall be pursuant to the terms and provisions of Chapter 2253 of the Texas Government Code as amended and all liabilities on this bond shall be determined in accordance with the provisions of said Chapter to the same extent as if it were copied at length herein. Venue shall lie exclusively in _____ County, Texas for any legal action.</i>	
Contractor as Principal Signature: _____ Name and Title: _____	Surety Signature: _____ Name and Title: _____ (<i>Attach Power of Attorney</i>)

END OF SECTION

00 61 13.16 PAYMENT BOND FORM

Contractor as Principal Name: Mailing address (<i>principal place of business</i>):	Surety Name: Mailing address (<i>principal place of business</i>): Physical address(<i>principal place of business</i>):
Owner Name: Mailing address (<i>principal place of business</i>):	Surety is a corporation organized and existing under the laws of the state of: _____ By submitting this bond, Surety affirms their authority to do business in the State of Texas and their license to execute bonds in the State of Texas.
Contract Project name and location: Effective Date of the Agreement: Contract Amount:	Telephone (<i>main number</i>): Telephone (<i>for notice of claim</i>):
Bond Date of Bond (<i>Date of Bond cannot be earlier than Effective Date of Agreement</i>) Bond Amount:	Local Agent for Surety Name: Address: Telephone: <i>The address of the surety company to which any notice of claim should be sent may be obtained from the Texas Department of Insurance by calling the following toll-free telephone number: 1-800-252-3439</i>
<i>Surety and Contractor, intending to be legally bound and obligated to Owner do each cause this Payment Bond to be duly executed on its behalf by its authorized officer, agent or representative. The Principal and Surety bind themselves, and their heirs, administrators, executors, successors and assigns, jointly and severally to this bond. The condition of this obligation is such that if the Contractor as Principal pays all claimants providing labor or materials to him or to a Subcontractor in the prosecution of the Work required by the Contract then this obligation shall be null and void; otherwise the obligation is to remain in full force and effect. Provisions of the bond shall be pursuant to the terms and provisions of Chapter 2253 of the Texas Government Code as amended and all liabilities on this bond shall be determined in accordance with the provisions of said Chapter to the same extent as if it were copied at length herein. Venue shall lie exclusively in _____ County, Texas for any legal action.</i>	
Contractor as Principal Signature: _____ Name and Title: _____	Surety Signature: _____ Name and Title: _____ (<i>Attach Power of Attorney</i>)

END OF SECTION

00 62 16.01 WORKERS' COMPENSATION INSURANCE

Note to Specifier: Texas Administrative Code §110.110(c) requires a governmental entity that enters into a building or construction contract to include the language below in the bid specifications without any additional words or changes.

1.00 REQUIRED NOTICE

1.01 WORKER'S COMPENSATION INSURANCE COVERAGE

A. Definitions:

1. Certificate of coverage ("certificate") - A copy of a certificate of insurance, a certificate of authority to self-insure issued by the commission, or a coverage agreement (TWCC-81, TWCC-82, TWCC-83, or TWCC-84), showing statutory workers' compensation insurance coverage for the person's or entity's employees providing services on a project, for the duration of the project.
 2. Duration of the project - includes the time from the beginning of the work on the project until the contractor's/person's work on the project has been completed and accepted by the governmental entity.
 3. Persons providing services on the project ("subcontractor" in §406.096) - includes all persons or entities performing all or part of the services the contractor has undertaken to perform on the project, regardless of whether that person contracted directly with the contractor and regardless of whether that person has employees. This includes, without limitation, independent contractors, subcontractors, leasing companies, motor carriers, owner-operators, employees of any such entity, or employees of any entity which furnishes persons to provide services on the project. "Services" include, without limitation, providing, hauling, or delivering equipment or materials, or providing labor, transportation, or other service related to a project. "Services" does not include activities unrelated to the project, such as food/beverage vendors, office supply deliveries, and delivery of portable toilets.
- B. The contractor shall provide coverage, based on proper reporting of classification codes and payroll amounts and filing of any coverage agreements, which meets the statutory requirements of Texas Labor Code, Section 401.011(44) for all employees of the contractor providing services on the project, for the duration of the project.
- C. The Contractor must provide a certificate of coverage to the governmental entity prior to being awarded the contract.
- D. If the coverage period shown on the contractor's current certificate of coverage ends during the duration of the project, the contractor must, prior to the end of the coverage period, file a new certificate of coverage with the governmental entity showing that coverage has been extended.
- E. The contractor shall obtain from each person providing services on a project, and provide to the governmental entity:
1. a certificate of coverage, prior to that person beginning work on the project, so the governmental entity will have on file certificates of coverage showing coverage for all persons providing services on the project; and

2. no later than seven days after receipt by the contractor, a new certificate of coverage showing extension of coverage, if the coverage period shown on the current certificate of coverage ends during the duration of the project.
- F. The contractor shall retain all required certificates of coverage for the duration of the project and for one year thereafter.
 - G. The contractor shall notify the governmental entity in writing by certified mail or personal delivery, within 10 days after the contractor knew or should have known, of any change that materially affects the provision of coverage of any person providing services on the project.
 - H. The contractor shall post on each project site a notice, in the text, form and manner prescribed by the Texas Workers' Compensation Commission, informing all persons providing services on the project that they are required to be covered, and stating how a person may verify coverage and report lack of coverage.
 - I. The contractor shall contractually require each person with whom it contracts to provide services on a project, to:
 1. provide coverage, based on proper reporting of classification codes and payroll amounts and filing of any coverage agreements, which meets the statutory requirements of Texas Labor Code, Section 401.011(44) for all of its employees providing services on the project, for the duration of the project;
 2. provide to the contractor, prior to that person beginning work on the project, a certificate of coverage showing that coverage is being provided for all employees of the person providing services on the project, for the duration of the project;
 3. provide the contractor, prior to the end of the coverage period, a new certificate of coverage showing extension of coverage, if the coverage period shown on the current certificate of coverage ends during the duration of the project;
 4. obtain from each other person with whom it contracts, and provide to the contractor:
 - a. a certificate of coverage, prior to the other person beginning work on the project; and
 - b. a new certificate of coverage showing extension of coverage, prior to the end of the coverage period, if the coverage period shown on the current certificate of coverage ends during the duration of the project;
 5. retain all required certificates of coverage on file for the duration of the project and for one year thereafter;
 6. notify the governmental entity in writing by certified mail or personal delivery, within 10 days after the person knew or should have known, of any change that materially affects the provision of coverage of any person providing services on the project; and
 7. contractually require each person with whom it contracts, to perform as required by paragraphs 1 - 7, with the certificates of coverage to be provided to the person for whom they are providing services.
 - J. By signing this contract or providing or causing to be provided a certificate of coverage, the contractor is representing to the governmental entity that all employees of the contractor who will provide services on the project will be covered by workers' compensation coverage for the duration of the project, that the coverage will be based on proper reporting of

classification codes and payroll amounts, and that all coverage agreements will be filed with the appropriate insurance carrier or, in the case of a self-insured, with the commission's Division of Self-Insurance Regulation. Providing false or misleading information may subject the contractor to administrative penalties, criminal penalties, civil penalties, or other civil actions.

- K. The contractor's failure to comply with any of these provisions is a breach of contract by the contractor which entitles the governmental entity to declare the contract void if the contractor does not remedy the breach within ten days after receipt of notice of breach from the governmental entity.