

#### **Contract Change Request**

#### Contract Change Request

#### General

Project Number: 40-00423 Project Name: H - 2012 Bond - Belford Area

Drainage

Record Number: CCR-0000005 Status: Rejected

Contract #: 4600014831

(13-5068)

Title: SAWS-01 Water Line Offsets

Creator: CoSA Admin Creation Date: 06/10/2016 04:12 PM (UTC-6)

Type Contract: Construction Vendor Name: JORDAN FOSTER

**CONSTRUCTION LLC** 

Agency: SAWS Water

Special Contract: No

Contract Amount: \$6,249,080.75

New Contract Value: \$6,390,881.89

Change to Contract Cost: \$101,220.37

Change Category: Utilities - SAWS Proposal Record Number: PRN-0000005

Previous Contract Changes: \$40,580.77

Contract Change Percentage: 2.27

Change to Calendar Days: 0

#### **Description Of Change**

Description of Change: This change order is authorizing the offset of the existing 8" water line at 1 location at Sta. 20+24.24 as well as the existing 6" water line at 6 locations along the 6 locations at Sta. 22+12.16, Sta. 25+20.00, Sta. 26+22.54, Sta. 29+63.71, Sta. 32+84.72 and Sta. 36+06.66.

Justification for Proposed During construction it was determined that seven proposed storm drain inlets were in Change: conflict with the existing 6-inch and 8-inch water mains along the west side of Belford. These adjustments are required to eliminate the impact to the system. RFI-10 and PRN-05 is linked as backup for additional information.

#### Ordinance Information

Change Order Council \$100,000.00

Threshold:

Ordinance Number: Ordinance Date:

Fiscal Remarks: PM: David I. Hernandez, P.E. / PO No. 4500403308, Line 7 & Contract No. 460001483, Line 3 to be increased by \$101,220.37. / BA-01 will increase reinbursables by \$101,220.37 WBS No. 40-00423-05-02-04 (linked to this CCR) / GL No. 5201245.

#### Vendor Information

SAP Vendor No.: 0001047669

Vendor Address 1:7700 CF JORDAN DRIVE

Vendor City: EL PASO

Vendor Phone Number: 915-877-3333

Vendor Address 2:

Vendor State: TX

Vendor Zip Code: 79912

Vendor Fax Number: 915-877-3999

#### Standard

12 Item(s)

0,20.0				Contac	or orial igo i requi	301		
No.	Spec No.	Item Description	UM	Unit Price	Quantity	Amount	PO No.	PO Line #
012	New Item - Item 9000	SAWS-01 CPS Pole Bracing	EA	\$1,590.75	2.0	\$3,181.50	4500403308	4
011	New Item - Item 833	SAWS-01 Ex. Meter & Meter Box Relocation	EA	\$1,527.41	1.0	\$1,527.41	4500403308	4
010	New Item - Item 825	SAWS-01 Customer Shut Off Valve	EA	\$597.24	1.0	\$597.24	4500403308	4
009	New Item - Item 824	SAWS-01 3/4" Relay Service	EA	\$1,789.22	1.0	\$1,789.22	4500403308	4
800	Item 844	SAWS-01 2" Blow-off, Temporary	EA	\$1,500.00	14.0	\$21,000.00	4500403308	4
007	Item 841	SAWS-01 Hydrostatic Testing	EA	\$3,000.00	7.0	\$21,000.00	4500403308	4
006	Item 840	SAWS-01 8" Tie-In	EA	\$2.00	3,000.0	\$6,000.00	4500403308	4
005	Item 840	SAWS-01 6" Tie-In	EA	\$12.00	2,800.0	\$33,600.00	4500403308	4
004	Item 836	SAWS-01 Pipe Fittings All Sizes & Types	TON	\$0.70	4,500.0	\$3,150.00	4500403308	4
003	Item 818	SAWS-01 8" PVC Waterline	LF	\$50.00	25.0	\$1,250.00	4500403308	4
002	Item 818	SAWS-01 6" PVC Waterline	LF	\$45.00	175.0	\$7,875.00	4500403308	4
001	Item 550	SAWS-01 Trench Excavation Safety Protection	LF	\$1.25	200.0	\$250.00	4500403308	4

**Total Amount** \$101,220.37

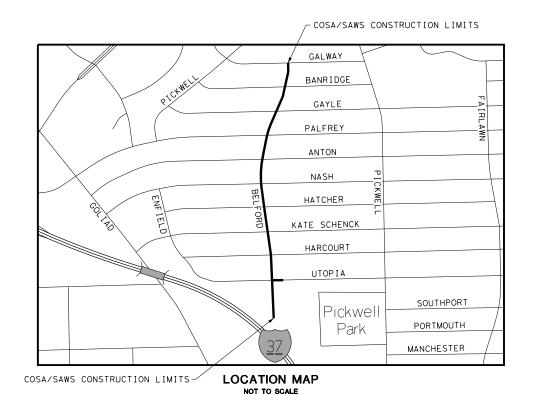
Linked Mail (0) Attachments (3) Linked Records (3)

COVER
WATER GENERAL NOTES
OVERALL WATER PLANS
CONTROL POINT SHEET
- 10 WATER PLANS
1 - 14 FIRE HYDRANT REPLACEMENT
5 - 18 INLET WATERLINE OFFSET DETAIL

# SAN ANTONIO WATER SYSTEM

JOB NO: 13-5068

## BELFORD AREA DRAINAGE WATER PLANS





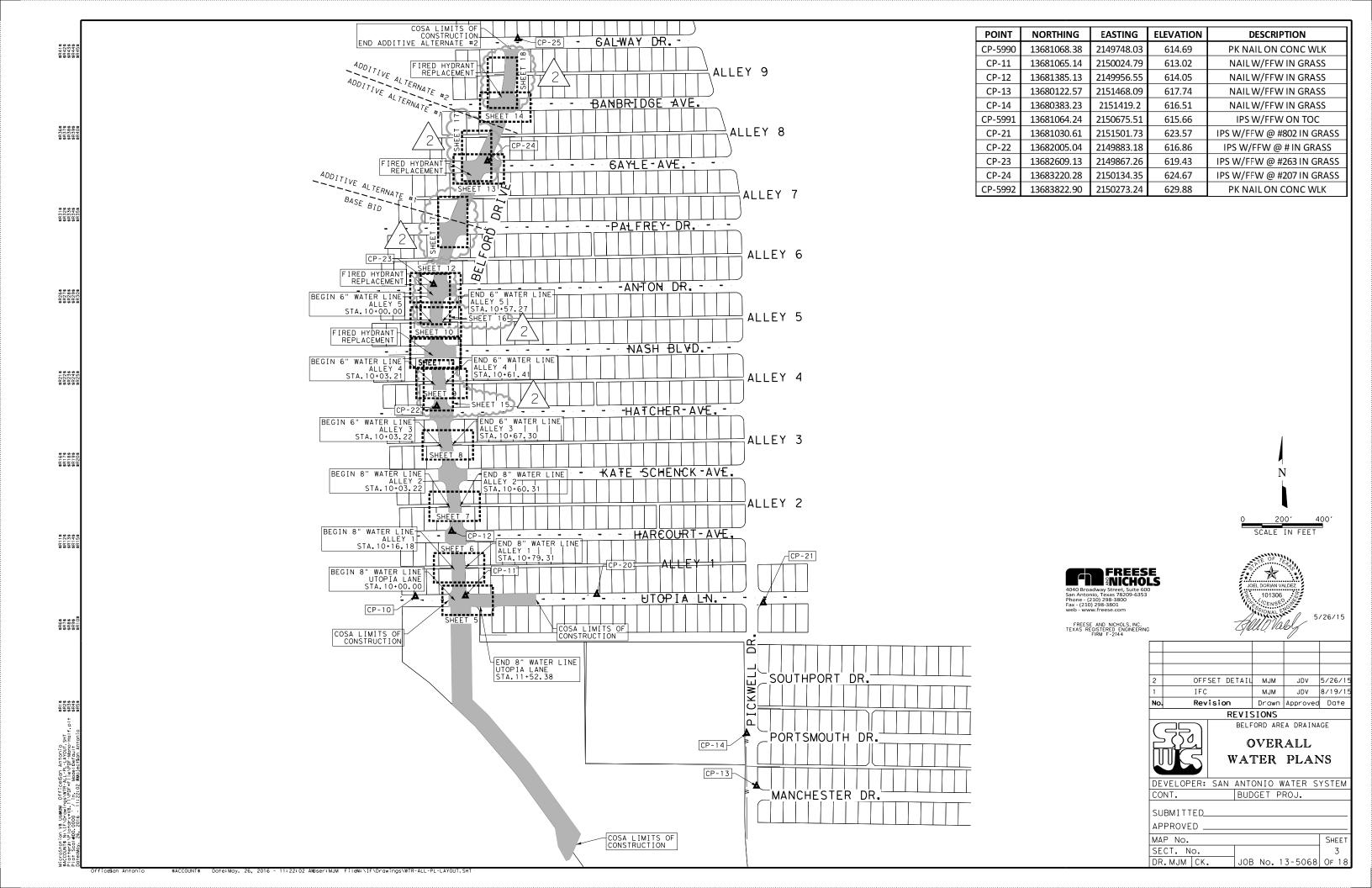
#### SUBMITTAL PREPARED BY:



4040 Broadway Street Suite 600 San Antonio, Texas 78209-6353 Phone - (210) 298-3800 Fax - (210) 298-3801 Web - www.freese.com

CONTACT: MR. JEROME W. SCANLON, P.E. PHONE: (210) 298-3800

FREESE AND NICHOLS, INC. TEXAS REGSTERED ENGINEERING FIRM F-2144





ITEM NO	DESCRIPTION	UTOPIA-1 SHEET 5	ALLEY-1 SHEET 6	ALLEY-2 SHEET 7	ALLEY-3 SHEET 8	ALLEY-4 SHEET 9	ALLEY-5 SHEET 10	NASH SHEET 11	ANTON SHEET 12	GAYLE SHEET 13	BANRIDGE SHEET 14	BELFORD SHEET 15	BELFORD SHEET 16	BELFORD SHEET 17	BELFORD SHEET 18	TOTAL QUANTITY	UNIT
100.0	MOBILIZATION															1	LS
101.0	PREPARING RIGHT-OF-WAY															1	LS
550.0	TRENCH EXCAVATION SAFETY PROTECTION	152	63	57	64	58	57					55	60	55	30	651	LF
818.0	6" PVC WATERLINE				25	20	40					30	60	55	30	260	LF
818.0	8" PVC WATERLINE	55	20	15								25				115	LF
824.0	RELAY SERVICE (SHORT) 3/4"											1				1	EA
825.0	CUSTOMER SHUT OFF VALVE											1				1	EA
833.0	EXISTING METER AND METER BOX RELOCATION											1				1	EA
834.1	FIRE HYDRANT	1						1	1							3	EA
836.0	PIPE FITTINGS, ALL SIZES AND TYPES															2.7	TOI
840.0	6" TIE-IN				1	1	2					2	4	4	2	16	EA
840.0	8" TIE-IN	2	2	2	1	1						2				10	EA
841.0	HYDROSTATIC TESTING	1	1	1	1	1	1					2	2	2	1	13	EA
844.0	2" BLOWOFF, TEMPORARY	2	2	2	2	2	2					4	2	2	2	22	EA
856.2	6" CARRIER PIPE (OPEN CUT) (PVC)				40	40	20									100	LF
856.2	8" CARRIER PIPE (OPEN CUT) (PVC)	100	45	45												190	LF
856.3	CASING OR LINER 24"	100	45	45	40	40	20									290	LF
1015.0	SERVICE LINE BREAKS/LEAK REPAIRS															0	EA
1020.0	WATER MAIN BREAKS/LEAK REPAIRS															0	EΑ
9000.0	CPS POWER POLE BRACE												1		1	2	E.A

ITEM NO	DESCRIPTION	UTOPIA-1 SHEET 5	ALLEY-1 SHEET 6	ALLEY-2 SHEET 7	ALLEY-3 SHEET 8	ALLEY-4 SHEET 9	ALLEY-5 SHEET 10	NASH SHEET 11	ANTON SHEET 12	GAYLE SHEET 13	BANRIDGE SHEET 14	QUANTITY	UNIT
834.1	FIRE HYDRANT									1		1	EA
836.0	PIPE FITTINGS, ALL SIZES AND TYPES									0		0.03	TON

ITEM NO	DESCRIPTION	UTOPIA-1 SHEET 5			NASH SHEET 11	ANTON SHEET 12	GAYLE SHEET 13	BANRIDGE SHEET 14	QUANTITY	UNIT
834.1	FIRE HYDRANT							1	1	EA

#### **GENERAL NOTES:**

2222

\$R68 \$R88 \$R88

\$R18 \$R28 \$R38 \$R48 1. ALL MATERIALS AND CONSTRUCTION PROCEDURES WITHIN THE SCOPE OF THIS CONTRACT SHALL BE APPROVED BY THE SAN ANTONIO WATER SYSTEM (SAWS) AND COMPLY WITH THE PLANS. SPECIFICATIONS, GENERAL CONDITIONS AND WITH THE FOLLOWING AS APPLICABLE:

A. CURRENT TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) "DESIGN CRITERIA FOR DOMESTIC WASTEWATER SYSTEM", TEXAS ADMINISTRATIVE CODE (TAC) TITLE 30 PART 1 CHAPTER 217 AND "PUBLIC DRINKING WATER", TAC TITLE 30 PART 1 CHAPTER 210

B. CURRENT TEXAS DEPARTMENT OF TRANSPORTATION (TXDOT) "STANDARD SPECIFICATIONS FOR CONSTRUCTION OF HIGHWAYS. STREETS AND DRAINAGE."

C. CURRENT SAN ANTONIO WATER SYSTEM "STANDARD SPECIFICATIONS FOR WATER AND SANITARY SEWER CONSTRUCTION."

D. CURRENT CITY OF SAN ANTONIO "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION."

E. CURRENT CITY OF SAN ANTONIO "UTILITY EXCAVATION CRITERIA MANUAL"

2. THE CONTRACTOR IS TO MAKE ARRANGEMENTS WITH THE SAWS CONSTRUCTION INSPECTION DIVISION AT 233-3500 AND PROVIDE NOTIFICATION PROCEDURES THE CONTRACTOR WILL USE TO NOTIFY AFFECTED HOME RESIDENTS AND/OR PROPERTY OWNERS 48 HOURS PRIOR TO EXCAVATION.

3. LOCATIONS AND DEPTHS OF EXISTING UTILITIES AND SERVICE LATERALS SHOWN ON THE PLANS ARE UNDERSTOOD TO BE APPROXIMATE. ACTUAL LOCATIONS AND DEPTHS MUST BE FIELD VERIFIED BY THE CONTRACTOR 48 HOURS PRIOR TO CONSTRUCTION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE UTILITY SERVICE LINES AS REQUIRED FOR CONSTRUCTION AND TO PROTECT THEM DURING CONSTRUCTION AT NO COST TO SAWS.

4. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF UNDERGROUND UTILITIES AND DRAINAGE STRUCTURES AT LEAST 48 HOURS PRIOR TO CONSTRUCTION WHETHER SHOWN ON PLANS OR NOT. THE FOLLOWING CONTACT INFORMATION ARE SUPPLIED FOR VERIFICATION PURPOSES:

SAWS UTILITY LOCATES: 233-2009
SAWS PRODUCTION CONTROL CENTER: 233-2016
COSA DRAINAGE: 207-8048
COSA TRAFFIC SIGNAL OPERATIONS: 207-7720
TEXAS STATE WIDE ONE CALL LOCATOR: 1-800-545-6005 OR 811

5. THE CONTRACTOR SHALL COMPLY WITH CITY OF SAN ANTONIO OR OTHER GOVERNING MUNICIPALITY'S TREE ORDINANCES WHEN EXCAVATING NEAR TREES.

 $6.\, THE$  CONTRACTOR SHALL NOT PLACE ANY WASTE MATERIALS OR SPOILS IN THE 100-YEAR FLOOD PLAIN WITHOUT FIRST OBTAINING AN APPROVED FLOOD PLAIN PERMIT.

7. PRIOR TO TIE-INS, ANY SHUTDOWNS OF EXISTING MAINS OF ANY SIZE MUST BE COORDINATED WITH THE SAWS CONSTRUCTION INSPECTION DIVISION AT (210) 233-3500 AND/OR SAWS PRODUCTION GROUPS AT LEAST TWO WEEKS IN ADVANCE OF THE SHUTDOWN. THE CONTRACTOR MUST ALSO PROVIDE A SEQUENCE OF WORK AS RELATED TO THE TIE-INS; THIS IS AT NO ADDITIONAL COST TO SAWS OR THE PROJECT AND IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SEQUENCE THE WORK ACCORDINGLY.

8. WHERE NEW WATER LINES AND NEW SEWER LINES ARE INSTALLED WITH A SEPARATION DISTANCE CLOSER THAN NINE FEET (I.E., WATER LINES CROSSING WASTEWATER LINES, WATER LINES PARALLELING WASTEWATER LINES, OR WATER LINES NEXT TO MANHOLES) THE INSTALLATION MUST MEET THE REQUIREMENTS OF 30 TAC 217.53 (D) (PIPE DESIGN) AND 30 TAC 290.44 (E) (WATER DISTRIBUTION).

9. ASBESTOS CEMENT (AC) PIPE, ALSO KNOWN AS TRANSITE PIPE WHICH IS KNOWN TO CONTAIN ASBESTOS-CONTAINING MATERIAL (ACM), MAY BE LOCATED WITHIN THE PROJECT LIMITS. SPECIAL WASTE MANAGEMENT PROCEDURES AND HEALTH AND SAFETY REQUIREMENTS WILL BE APPLICABLE WHEN REMOVAL AND/OR DISTURBANCE OF THIS PIPE OCCURS, PAYMENT FOR SUCH WORK IS TO BE MADE UNDER SPECIAL SPECIFICATION ITEM FOR ASBESTOS CEMENT PIPE.

10. ANY WORK COMPLETED WITHOUT PRIOR WRITTEN AUTHORIZATION WHICH IS NOT INCLUDED IN THESE PLANS AND SPECIFICATIONS WILL NOT BE COMPENSATED BY THE SAN ANTONIO WATER SYSTEM.

11. CONTRACTOR SHALL CHLORINATE NEW WATER MAINS UTILIZING CALCIUM HYPOCHLORITE (HTH) IN ACCORDANCE TO SAWS SPEC 847.

12. CONTRACTOR SHALL CUT EXISTING PAVEMENT, CURB, SIDEWALKS AND DRIVEWAYS USING NEAT, CLEAN LINES AND RESTORE TO MATCH EXISTING PER SAWS 804. THERE WILL BE NO SEPERATE PAY TO CUT AND RESTORE PAVEMENT, CURB, SIDEWALKS, AND DRIVEWAYS.

13. SAWS CONSTRUCTION DETAILS ARE POSTED ON www.saws.org



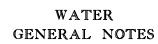
FREESE AND NICHOLS, INC.



3	OFFSET DETAIL	MJM	JDV	5/25/16
2	Quanity Change	MJM	JDV	11/30/15
1	IFC	MJM	JDV	8/19/15
No.	Revision	Drawn	Approved	Date

REVISIONS
BELFORD AREA DRAINAGE

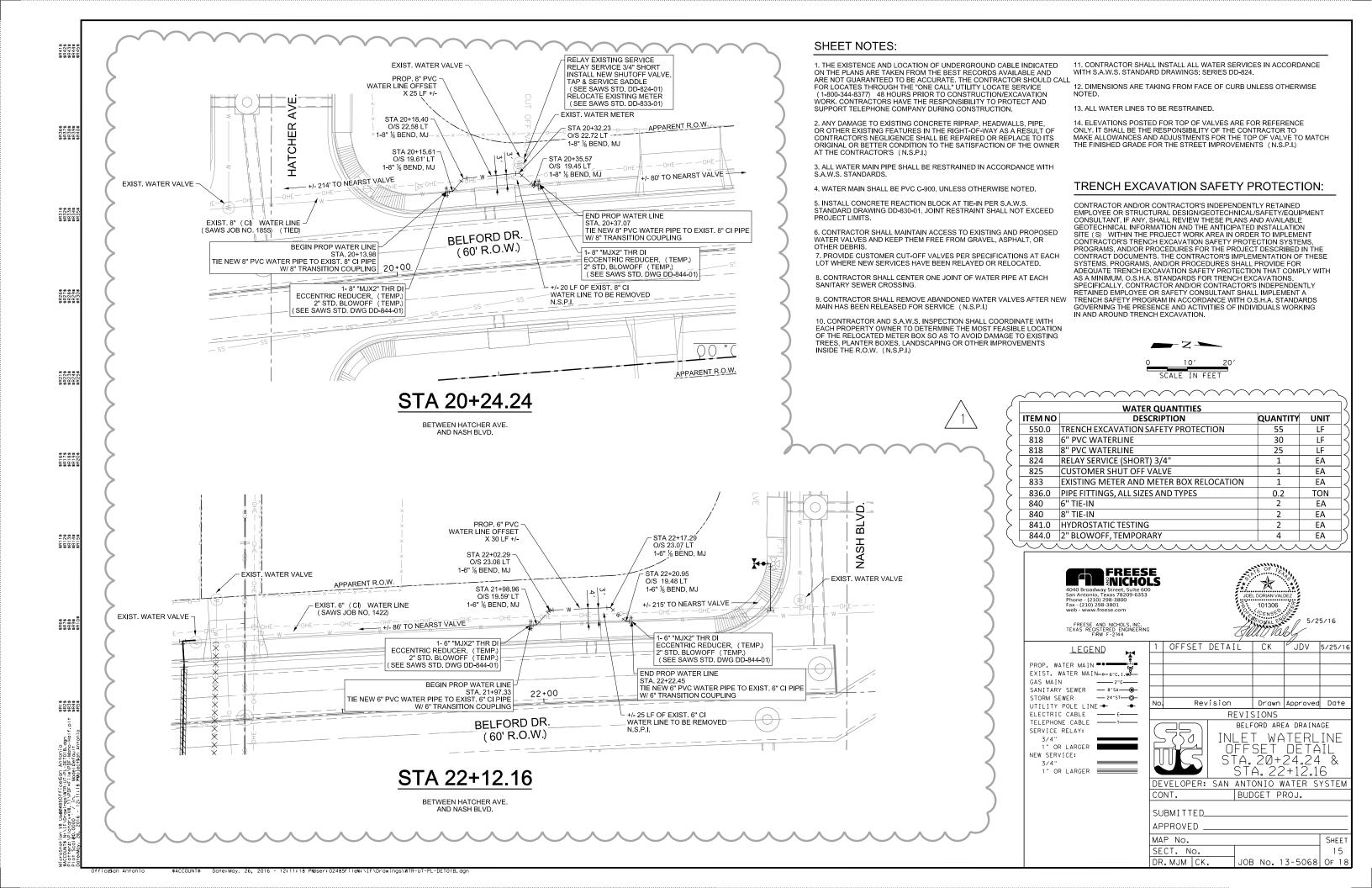
WATER

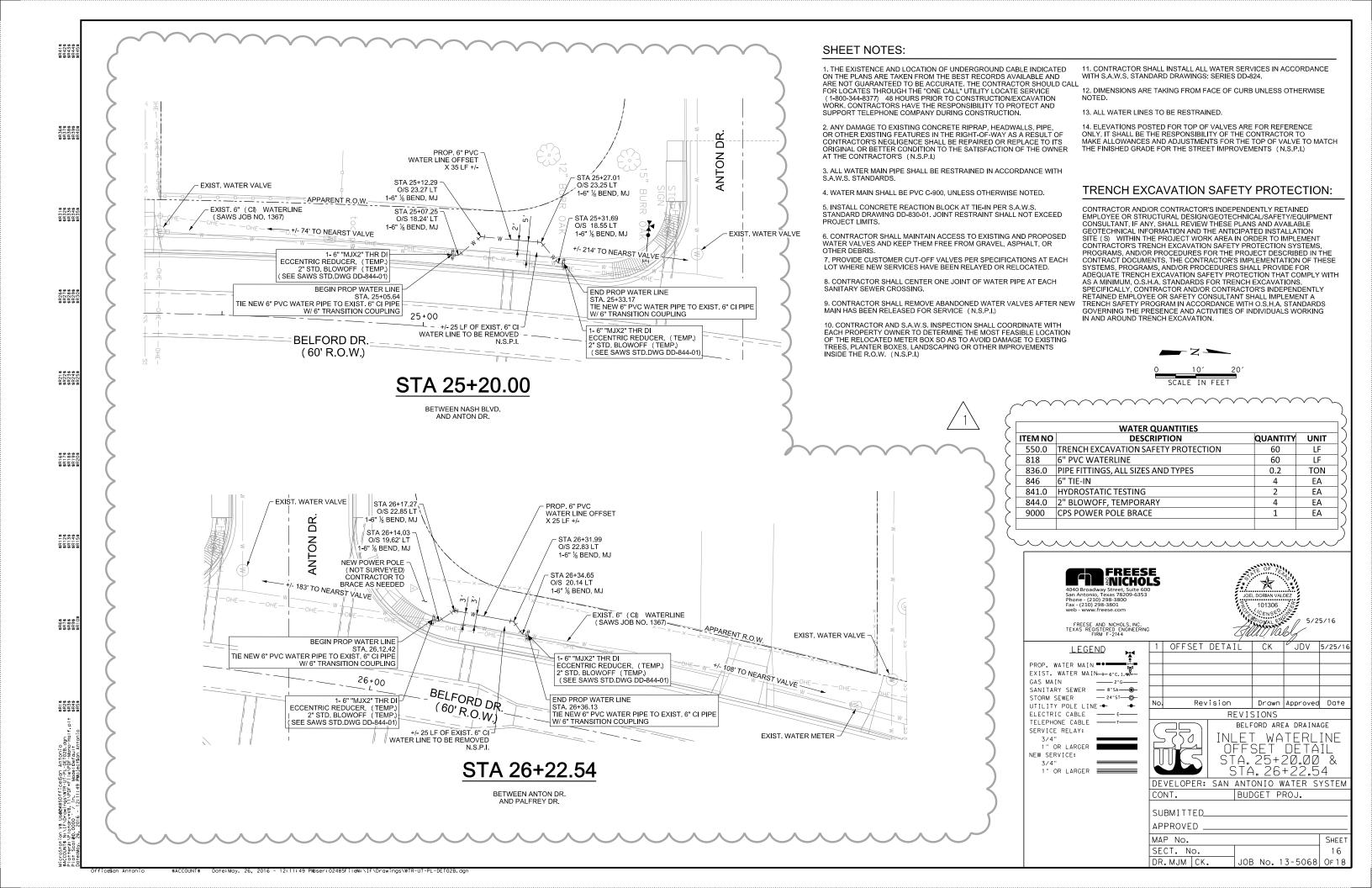


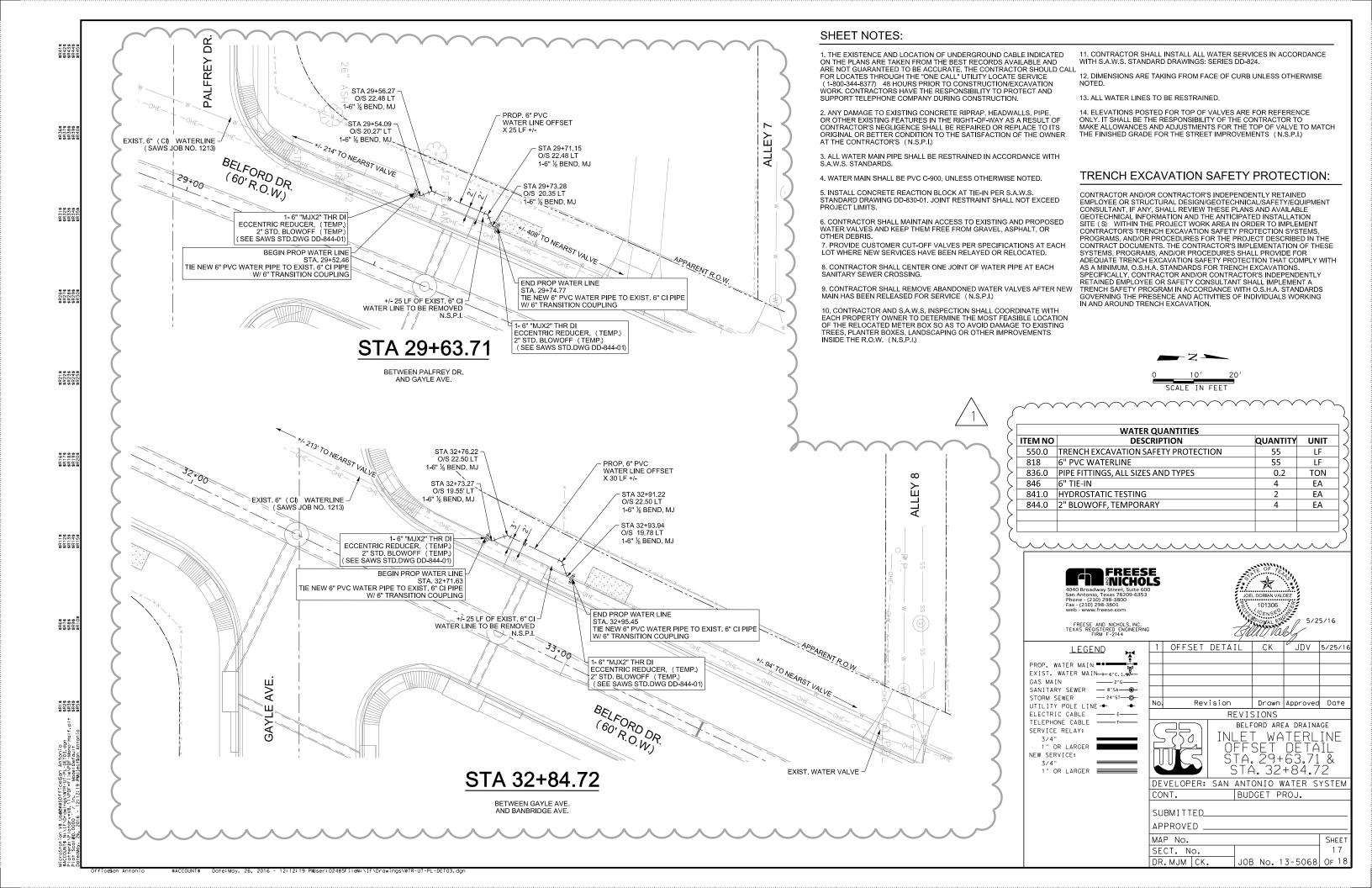
OF 13

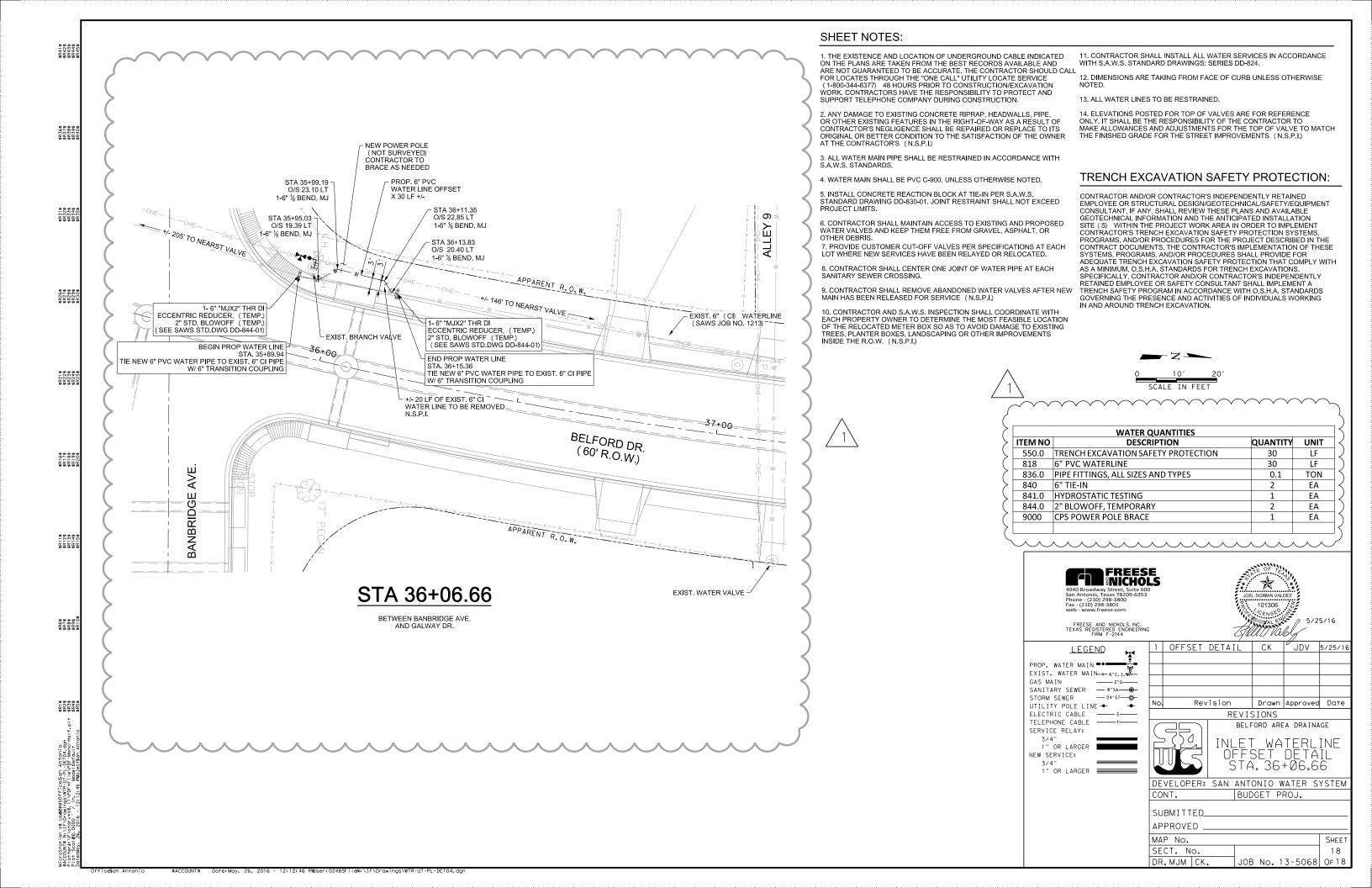
DEVELOPER:	SAN	ANTONIO	WATER	SYSTEM
CONT.		BUDGET	PROJ.	
SUBMITTED_ APPROVED _				
MAP No.				SHEET

refina Antonio \$ACCOUNT\$ Date:May 26 2016 - 12:14:04 PMIser:02485FileM:\IF\Drawinas\WIR All-GN-GENNOTES SH









#### San Antonio Water System

#### PROJECT CONSTRUCTION PROGRAM

#### **MEMORANDUM**



DATE:

June 2, 2016

PROJECT NO:

<u>13-5068</u>

TO:

Jordan Foster Construction

FROM:

Pipeline Inspections

RE:

Belford Drainage Area - RFP No. 1 Approval Response, Waterline Offsets and Additional Water

Items

The Pipeline Inspections Department, along with the SAWS engineering staff and design engineer, Freese and Nichols, Inc., has reviewed your proposal, dated June 1, 2016, in reference to the above-mentioned project, regarding the waterline offsets and the installation of associated water items required to avoid conflict with the proposed curd inlets.

**CHANGE IN SCOPE:** The proposed change in scope of work is:

#### Additions:

- Item No. 550, 200 LF, Trench Excavation Safety Protection @ \$1.25/LF = \$250.00
- Item No. 818, 175 LF, 6" PVC Waterline @ \$45.00/LF = \$7,875.00
- Item No. 818, 25 LF, 8" PVC Waterline @ \$50.00/LF = \$1,250.00
- Item No. 836, 0.7 TON, Pipe Fittings All Sizes and Types @ \$4,500.00/TON = \$3,150.00
- Item No. 840, 12 EA, 6" Tie-In @ \$2,800.00/EA = \$33,600.00
- Item No. 840, 2 EA, 8" Tie-In @ \$3,000.00/EA = \$6,000.00
- Item No. 841, 7 EA, Hydrostatic Testing @ \$3,000.00/EA = \$21,000.00
- Item No. 844, 14 EA, 2" Blow-off, Temporary @ \$1,500.00/EA = \$21,000.00
- New Item No. 824, 1 EA, 3/4" Relay Service @ \$1,789.22/EA = \$1,789.22
- New Item No. 825, 1 EA, Customer Shut Off Valve @ \$597.24/EA = \$597.24
- New Item No. 833, 1 EA, Existing Meter & Existing Meter Box Relocation @ \$1,527.41/EA = \$1,527.41
- New Item No. 9000, 2 EA, CPS Pole Bracing @ \$1,590.75/EA = \$3,181.50

Subtotal = \$101,220.37

#### Deletions:

N/A

#### NET TOTAL NOT TO EXCEED COST = \$101,220.37

JUSTIFICATION STATEMENT: The justification for the proposed change in scope of work is:

During construction it was determined that seven proposed storm drain inlets are in conflict with existing 6-inch and 8-inch water mains throughout the project. Adjustments of the water mains are required to eliminate the impact to the system (please see the revised plan sheets attached). Most items required will be paid for under existing bid items listed above. Pricing submitted for the new items identified are acceptable for the scope of work required.

**CONTRACT DAYS**: The proposed addition of contract days is: Seven (7) days.

#### San Antonio Water System

PROJECT CONSTRUCTION PROGRAM

#### **MEMORANDUM**

SAWS FINDINGS: SAWS is in concurrence with your proposal, in the net amount of \$101,220.37. We are requesting that you sign this memorandum in the space provided below and return to this office for processing. Once received, we will forward this memorandum along with the attached supporting documents to the design engineer and request that a change order / field alteration be prepared for your signature reflecting this agreement.

Because this change order / field alteration exceeds \$100,000.00, and due to shortage of funding to cover the additional cost, SAWS Board approval and/or Vice President Ratification will be required before the commencement of the work can be authorized. Once this has been obtained, this office will inform you, giving you authorization to proceed.

Should you have any questions, please contact me at 233-3499.

Respectfully,

Digitally signed by Johnathan Ratcliff Johnathan Ratcliff

DN: de=org, de=saws, ou=Facilities, ou=HQ Customer
Support Offices, ou=Construction Administration,
cr=Johnathan Ratcliff, email=Johnathan.Ratcliff@saws.org
Date: 2016.06.02 15:35:14-05'00'

Johnathan Ratcliff Construction Specialist Construction

Attachment(s)

Clint Henson Jordan Foster Construction operations Manager

Jose Carreño, PE, Sr. Director, Construction

Kathleen Price, PE, Director, Governmental Engineering

David R. Gonzales, CPM, Manager, Construction

Nina C. Bittle, PE, Manager, Pipelines - Governmental Engineering

Joshua Garcia, PE, SAWS Project Engineer Nicholas N. Vasquez, Graduate Engineer II

Freese and Nichols, Inc. ATTN: Joel D. Valdez, PE, Project Manager

Christina Calleros, SAWS Payment Coordinator

Pedro S. Reyna, SAWS Area Inspector

Gilbert Rangel, SAWS Inspector

X:\Construction Contract Administration\Projects\13-5068 & 13-5568-Belford Drainage Area\RFP\RFP No. 1 Approval Response, Waterline Offsets and Additional Water

### San Antonio Water System PROJECT CONSTRUCTION PROGRAM



No: \_\_\_1\_\_

#### REQUEST FOR PROPOSAL

DATE:		May 26, 2016		Hannan				
CONTR	ACTOR:	Jordan Foster Construction	1					
PROJE	CT:	Belford Drainage Area						
JOB NO	<b>.</b> :	13-5068						
PLEASE ITEMIZE APPROV	PROVIDE A QUOT D BREAKDOWN O	ATION TO THE CONTRACT IS ATION FOR THE ALTERATION FOR THE ALTERATION FOR THE SUBTRIBUTION OF THE SUBTRIBUT	ON DESCRIBED CONTRACTOR	O IN ITEM 1. TO COSTS, INCLU	HE QUI	OTATION SI LABOR, MA	HOULD INC TERIALS, F	LUDE AN RENTALS,
		IITIATOR OF REQUEST:						
		: (INCLUDE LIST OF ATTA			-	1 2 - 1		050.00
550		N SAFETY PROTECTION	200	LF LF	\$	1.25 45.00		250.00 7,875.00
818 818	6" PVC WATERLINE 8" PVC WATERLINE		175 25	LF LF	\$	50.00	the same of the sa	1,250.00
836	PIPE FITTINGS, ALL	SIZES AND TYPES	0.7	TON	\$	4,500.00		3,150,00
840	6" TIE-IN	OLEG AND THE EG	12	EA	\$	2,800.00		33,600.00
840	8" TIE-IN		2	EA	S	3,000.00		6,000.00
841	HYDROSTATIC TEST	ING	7	EA	\$	3,000.00	\$	21,000.00
844	2" BLOWOFF, TEMP	ORARY	14	EA	\$	1,500.00		21,000.00
824	3/4" RELAY SERVICE		1	EA			\$	-
825	CUSTOMER SHUT O			EA			\$	
833 9000	CPS POLE BRACING	EXISTING METER BOX RELOC	1 2	EA EA	-		\$	
2.	JUSTIFICATION F	OR MODIFICATION: letermined that seven propo			conflic	t with existing		and 8-inch
water ma	ins throughout the	project. Adjustments of the v	vater mains are	e required to elin	minate	the impact t	o the syste	m (please
see the r	evised plan sheets	attached). Most items requ	uired will be pa	aid for under ex	isting b	oid items lis	ted above.	SAWS is
requestir	g pricing for the rea	maining items identified abo	ve.					
3.	APPROVAL OF RE	EQUEST		APPRO By Johnat			3:33 pm	n, Jun 02, 2016
חבפיסיי	ENCINEED:							
DESIGN	ENGINEER:			DATE:				enterpression and a second and a
TO BE C	OMPLETED BY C	ONTRACTOR		NOTE: Cost su approval is req		is acceptabl	e for the sco	ope of work required. Boa
4.	TOTAL COST OF	MODIFICATION (ATTACH I	DETAILED BRI	EAKDOWN)		s <u>101,</u>	220.3	7
5.	WILL A MODIFICA	TION TO THE CONTRACT	TIME BE REC	UIRED?		_		
	X YES [	□ NO		DURATION: _		/	(CALENDA	R DAYS)

FORM 11

### San Antonio Water System PROJECT CONSTRUCTION PROGRAM



	REQUEST FOR	PROPO	SAL
		No:	1
3.	ATTACHMENT IDENTIFICATION (LIST): Water Line Offset Proposal	Open Control of the C	
7.	QUOTATION IN EFFECT UNTIL (DATE): 7-1-16		
3.	APPROVAL OF QUOTATION		
CONTR	ACTOR: 1/2 /k DATE	6-1-16	

BELFORD AREA DRAINAGE
CITY OF SAN ANTONIO
JORDAN FOSTER CONSTRUCTION, LLC.
DATE PREPARED: 5/27/2016



Operation and the second secon
EA
TON
LF
LF
LF
UNIT ORIGINAL OTY

# APPROVED

By Johnathan Ratcliff at 3:34 pm, Jun 02, 2016

PROJECT:
ITEM NUMBER/DESC.:
ESTIMATED QUANTITY:
DATE PREPARED: 5/27/2016

*		
1.00	3/4" RELAY	BELFORD /
Ë	SERVICE	D AREA DRAINAGE

TOTALS	SUBCONTRACT	EQUIPMENT EXCAVATOR LOADER PICKUP TRUCK	MATERIAL PIPE BEDDING BYJJA SS DBL SDL C900 NPT LF 3J4 MIP X COMP BALL CORP ST 3J4X100 K SOFT COP TUBE LF 5J8X3J4X3J4 CTS COMP ANG MTR BV	FOREMAN FOREMAN EXCAVATOR OPERATOR LOADER OPERATOR PIPE LAYER UTILITY LABORER LABORER LABORER	ITEM DESCRIPTION
	-	ယ ယ ယ	<b></b> 2	ယ ယ ယ ယ ယ ယ	QTY
	ኧ	### ###	EA EA	######	UNIT
				\$ 24.00 \$ 18.50 \$ 16.50 \$ 15.00 \$ 14.50 \$ 13.00	LABOR
		w w w	\$ 14.80 \$ 123.00 \$ 37.79 \$ 294.86 \$ 36.92		MATERIAL I
		82.20 54.00 14.00			EQUIP
	\$ 50.00				SUBCT.
					O.T.Factor
\$ 304.50				\$ 72.00 \$ 55.50 \$ 49.50 \$ 43.50 \$ 39.00	LABOR
S 522.1			\$ 29.60 \$ 123.00 \$ 37.79 \$ 294.86 \$ 36.92		TOTAL MATERIAL
522.17 \$ 450.60		& & & &	N 6 6 6 6		TOTAL COSTS AL EQUIP
150.60 S	es .	246.60 162.00 42.00			
50.00	50.00				SUBCT.
J					MISC.

TOTAL LABOR
TOTAL MATERIAL
TOTAL SUBCONTRACT
TOTAL SUBCONTRACT
MARKUPS
LABOR BURDENS
LABOR MARK-UP
MATERIAL MARK-UP
EQUIPMENT MARK-UP
SUBCONTRACT MARK-UP

PERFORMANCE BOND MISC COST

1,771.50

0

SUBTOTAL 1.00% TOTAL QUANTITY UNIT COST

1,771.50 17.72 1,789.22 1,789.22 EA

304.50 304.50 522.17 450.60 50.00

88898

55% 25% 25% 15% 5%

to to to to to

304.50 522.17 450.60 50.00 167.48 76.13 130.54 67.59 2.50



PROJECT:
ITEM NUMBER/DESC.:
ESTIMATED QUANTITY:
DATE PREPARED:

5/27/2016

STON	BELFORD	
R SHUT OFF VALVE	AREA DRAINAGE	
	JSTOMER SHUT OFF VAI	ORD AREA DRAINAGI

MISC COST PERFORMANCE BOND	TOTAL LABOR TOTAL MATERIAL TOTAL BOUIPMENT TOTAL SUBCONTRACT MARKUPS LABOR BURDENS LABOR MARK-UP EQUIPMENT MARK-UP EQUIPMENT MARK-UP SUBCONTRACT MARK-UP	TOTALS	SUBCONTRACT TRUCKING	EQUIPMENT EXCAVATOR LOADER PICKUP TRUCK	MATERIAL PIPE BEDDING 3/4" VALVE MISC MATERIAL	FOREMAN  EXCAVATOR OPERATOR  LOADER OPERATOR  PIPE LAYER  UTILITY LABORER  LABORER	DESCRIPTION
w							H
591.33	101.50 101.50 146.72 150.20 50.00		_				QTY
(9)	66666		H.	¥ ¥ ¥	EA EA	ጟጟጟጟጟጟ	UNIT
SUBTOTAL 1.00% TOTAL QUANTITY UNIT COST	55% 25% 25% 15%					\$ 24.00 \$ 18.50 \$ 15.00 \$ 14.50 \$ 13.00	LABOR
					\$ 14.80 \$ 31.92 \$ 100.00		UNIT COSTS MATERIAL E
\$ 591.33 \$ 597.24 \$ 697.24	\$ 101.50 \$ 146.72 \$ 150.20 \$ 50.00 \$ 65.83 \$ 25.38 \$ 36.68 \$ 22.53 \$ 22.53			\$ 82.20 \$ 54.00 \$ 14.00			OSTS EQUIP
EA EA			\$ 50.00				SUBCT.
							O.T.Factor
		\$ 101.50				\$ 24.00 \$ 18.50 \$ 15.00 \$ 14.50 \$ 13.00	LABOR
		50 \$			s s s	88888	MATERI
		146.72			14.80 31.92 100.00		TOTAL COSTS
		\$ 150.20		\$ 82.20 \$ 54.00 \$ 14.00			EQUIP
		\$ 50.00	\$ 50.00				SUBCT.
		8	0	14			MISC.



PROJECT:
ITEM NUMBER/DESC.:
ESTIMATED QUANTITY:
DATE PREPARED:

BELFORD AREA DRAINAGE EXISTING METER & EXISTING METER BOX RELOCATE 1.00 EA 5/27/2016

MISC COST PERFORMANCE BOND	TOTAL LABOR TOTAL MATERIAL TOTAL EQUIPMENT TOTAL SUBCONTRACT MARKUPS LABOR BURDENS LABOR MARK-UP EQUIPMENT MARK-UP SUBCONTRACT MARK-UP	TOTALS	SUBCONTRACT TRUCKING	EQUIPMENT EXCAVATOR LOADER PICKUP TRUCK	MATERIAL PIPE BEDDING MISC MATERIAL	FOREMAN FOREMAN EXCAVATOR OPERATOR LOADER OPERATOR PIPE LAYER UTILITY LABORER LABORER	DESCRIPTION
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1,512.29	304.50 304.50 314.80 450.60			ωωω		<b></b>	QTY
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SUBTOTAL 1.00% TOTAL QUANTITY UNIT COST						0 00 00 00 00 00	ZA
TOTAL 1.00% AL NITTY	55% 25% 25% 15%					24.00 18.50 16.50 15.00 14.50 13.00	LABOR
					\$ 14.80 \$ 300.00		UNIT COSTS
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1.512.29 15.12 1.527.41 1.527.41	304,50 314,80 450,60 50,00 167,48 76,13 78,70 67,59 2,50		-A	82.20 54.00 14.00			EQUIP
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		304.50		· · · · · · · · · · · · · · · · · · ·		72.00 55.50 49.50 45.00 43.50 39.00	Ш
		8			en en		MATERIA
		314.80			14.80 300.00		TOTAL COSTS
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		450.60		246.60 162.00 42.00			
		S	Ø				SUBCT
		50.00	50.00				
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PROJECT:
ITEM NUMBER/DESC.:
ESTIMATED QUANTITY:
DATE PREPARED:

DESCRIPTION LABOR

QTY

UNIT

SUBCT. O.T.Factor LABOR

TOTAL COSTS MATERIAL EQUIP

SUBCT.

MISC.

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3,000.00 3,000.00

BELFORD AREA DRAINAGE CPS POLE BRACING 2.00 EA 5/27/2016

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PERFORMANCE BOND	MISC COST	MARKUP LABOR BURDENS LABOR MARK-UP MATERIAL MARK-UP EQUIPMENT MARK-UP SUBCONTRACT MARK-UP	TOTAL LABOR TOTAL MATERIAL TOTAL EQUIPMENT TOTAL SUBCONTRACT	TOTALS	EQUIPMENT SUBCONTRACT CPS POLE BRACING	MATERIAL
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(9)		00000			E >	
1.00% TOTAL	SUBTOTAL	55% 25% 25% 15% 5%				
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31.50 3,181.50	3,150,00	150.00	3,000.00			
					\$ 1,500,00	
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QUANTITY UNIT COST

