Matt Hanks, P.E., CFM COUNTY ENGINEER



Karen McKinnon, P.E. ASST. COUNTY ENGINEER

Wael Tabara, P.E., CFM ASST. COUNTY ENGINEER

(979) 864-1265 ANGLETON (979) 388-1265 CLUTE (281) 756-1265 HOUSTON (979) 864-1270 FAX

BRAZORIA COUNTY ENGINEERING

451 N VELASCO, SUITE 230 ANGLETON, TEXAS 77515

Document Type: Change Order Memorandum

Subject: Change Order 01

Project: CR 58

Description: Cement Stabilized Sand for Drainage Structures

Change Order No. 1 (CO 1) provides a new work item to complete cement stabilized sand installation for drainage structures. This change order does not impact the critical path, therefore no time adjustments are made.

The contract plans, designed by Austin Mclean, P.E., of McDonough Engineering, provide for the reconstruction and widening of CR 58 from CR 48 to the Savanah Development. The Contractor, ICON, remains on-site and continues to perform the contract according to the plans and the 2014 Texas Standard Specifications. All change order work is within the project limits.

The widening of CR 58 requires installation of an underground drainage system. The specifications for underground drainage systems require that the drainage pipes and structures be backfilled with cement stabilized sand. The plans where reviewed at the start of the project and it was discovered that the quantity of cement stabilized sand was 100 Cubic Yards (CY). When the quantity of cement stabilized sand that would be needed was calculated according to the TxDOT excavation and backfill diagrams, it is approximately 1,660 CY for drainage structures. The 100 CY included in the plans is intended to be placed as driveway and cross-over base. Therefore, this change order adds 1660 CY of cement stabilized sand at a new unit price.

Since the character of the work is different than the intended use of cement stabilized sand in the contract plans, the Contractor has submitted a new unit price of \$71.19/CY. This price was compared to the current 3-month and 12-month Houston District Average Low Bid Unit Prices (ALBUP). The 3-month ALBUP is \$82.69/CY while the 12-month is \$86.69/CY. Therefore, since the Contractor's pricing is competitive for the Houston area

and compares favorably to the ALBUP, this change order pricing is considered fair and reasonable.

The total additional cost of this change order is \$118,175.40. This change order funding will utilize federal participation at the rate specified in the Advanced Funding Agreement (AFA). This agreement states that federal reimbursement rate is 80% of the cost while the local government is responsible for 20%. Therefore, the local government will be responsible for \$23,635.08 while the federal participation amount will be \$94,540.32.

This change order adds plan sheets 152A and 152B.

No amended or additional environmental clearance, permits or authorizations are required for this change order.



Client: Brazoria County

Project: CR 58 Widening From CR 48 to Sav

Number: C14-001-58

Change Details

Submitted To Name: Winkler, Mike	Submitted To Company: AECOM
Submitted By Name: Burke , Chris	Submitted By Company: iCON GC, LLC
Change ID (External #): CHG-2024-0001	Summary Description: Cement Stabilized Sand for Drainage
Status of Change: 2) RE Approved (4/3/2024 8:25 PM)	Structures
	\

Change Value:

Detailed Description of Change:

Change Order No. 1 (CO 1) provides a new work item to complete cement stabilized sand installation for drainage structures. This change order does not impact the critical path, therefore no time adjustments are made.

The widening of CR 58 requires installation of an underground drainage system. The specifications for underground drainage systems require that the drainage pipes and structures be backfilled with cement stabilized sand. The plans where reviewed at the start of the project and it was discovered that the quantity of cement stabilized sand was 100 Cubic Yards (CY). When the quantity of cement stabilized sand that would be needed was calculated according to the TxDOT excavation and backfill diagrams, it is approximately 1,660 CY for drainage structures. The 100 CY included in the plans is intended to be placed as driveway and cross-over base. Therefore, this change order adds 1660 CY of cement stabilized sand at a new unit price.

Work Tickets			
	Description: 400-6005 CEN	II STABL BKFL	
Notes:			
Qty: 1,660	Unit Cost : \$71.19	Total: \$118,175.4	
Attachment List			
		No Attachments	
	NOT VALID UNTIL SIGNED BY T	HE CONTRACTOR/OWNER/SUBCONTRACTOR	
ACCEPTED:		CONTRACTOR/OWNER/SUBCONTRACTOR:	
By:		Ву:	
<i>,</i>		•	
P	RINT NAME/TITLE	PRINT NAME/TITLE	
Date:		Date:	

4/3/2024 4:25:04 PM 1 of 1

Form 2146-L (Rev. 10/11) Page 1 of 1

CONSTRUCTION CONTRACT CHANGE ORDER NUMBER: 001

1. CONTRACTOR: ICON, LLC			CCSJ:	0912-31-304			
2. Change Order Work Limits: Sta. 77+	40 to Sta.	106+99	Project:	STP 1702 (437) MM			
3. Type of Change (on federal-aid non-e	exempt projects): Maj	or (Major/Minor)	Highway:	CR 58			
4. Describe the change and the reason	for the change order. When	necessary, include	County:	Brazoria			
exceptions to this agreement.			District:	Houston			
The project plans did not include a the drainage structures on the proj 6005 "CEM STABIL BKFL" at a quant	ect. Therefore, this change	order adds item 400-	Contract Number:				
5. New or revised plan sheet(s) are attack	ched and numbered: 152A	and 152B					
Each signatory hereby warrants that o							
By signing this change order, the contractor agr		The following infor	mation must be	e provided			
claims for additional compensation due to any a additional changes for time, overhead and profi as a result of this change. Further, the contracto	t; or loss of compensation r agrees that this agreement	Time Ext. #: N/A	Days adde	ed on this C.O.: N/A			
is made in accordance with Item 4 and the Cont noted in the response for #5 above.	ract. Exceptions should be	Amt. added by this	•	er: \$118,175.40			
		For TxDOT use of	only:				
THE CONTRACTOR	Date	Days participating	Days participating:				
Ву		Amount participati	Amount participating:				
Typed/Printed Name		Signature		Date			
Typed/Printed Title							
		Name/Title					
RECOMMENDED FOR EXECUTION Name/Title	Date	Name/Title APPROVED	☐ REQ	Date JUEST APPROVAL			
Name/Title	Date	Name/Title ☐ APPROVED [Date UEST APPROVAL			
Name/Title	Date	Name/Title APPROVED	☐ REQ				
Name/Title	 Date	Name/Title		Date			
Engineer's Seal:		APPROVED	APPROVED				

iCON GC, LLC			Page	1
23-10020-01	CR58 CSS	0:	3/14/2024	11:43
Chris Burke		ESTIMATE SUMMARY (BID PRICES)		

Bio	l# Quantity	Client Bid# Unit	Total Cost	Total Cost Unit Price	Markup	Balanced B Bid Total	alanced Bid Unit Price	Pricing Status	Bid Price	Bid Total
1	1.00	CY	CEMENT ST 53.39	ABILIZED BA 53.39	25.0% 18	71	71.19		71.190	71.19
	7	ΓΟΤALS:	53.39		18	71				71.19

Code between Balanced Bid & Bid Price: U=Unbalanced, F=Frozen, C=Closing Biditem (item to absorb unbalancing differences).

^{**} in front of the Biditem indicates a Non-Additive item

Chris Burke

CR58 CSS

ESTIMATE SUMMARY (BID PRICES)

2

11:43

Page

03/14/2024

Bid# Client Bid# Total **Total Cost** Balanced Balanced Bid Bid Bid Pricing **Unit Price** Status Quantity Unit Cost Bid Total **Unit Price** Total Markup Price

BID COSTS ======> 53 ACTUAL MARKUP ====> 18 TOTAL BID ======>> 71

Spread Indirects on: TOTAL COST Spread Markup on: TOTAL COST

Default Markup %:

Labor: 0% Burden: 0% 0% Perm Matl: Const Matl: 0% Sub: 0% Eqp Op Exp: 0% Co. Equip: 0% Rented Eqp: 0% Trucking: 0% Misc 2: 0% Misc 3: 0%

Spread Addons & Bond TOTAL COST

Bond Calculations

Selected Bond Table: B1 Description: Bond

C	ontra	ct Amount	Rate per 1000	Bond	Amount
First:	\$	100,000	25.00	\$	1.78
Next:	\$	400,000	15.00	\$	0.00
Next:	\$	2,000,000	10.00	\$	0.00
Next:	\$	2,500,000	7.50	\$	0.00
Next:	\$	2,500,000	7.00	\$	0.00
Remain	der:		6.50	\$	0.00
			Subtotal	: \$	1.78
mo m	ď	0.00			

Time Threshol241: **Extended Time Rate 1: %** 0.00Time Threshold02: **Extended Time Rate 2: %** 0.00 Length of Job: 1 **Total Bond Amount** 1.78

----- ESTIMATE NOTES: ------

Bid Date: Engineering Firm: Owner:

> Desired Bid (if specified) = Estimator-In-Charge: 0

Last Summary on 03/14/2024 at 9:34 AM. Last Spread on 03/14/2024 at 9:34 AM.

iCON GC, LLC 1 Chris Burke Page 1 of 1 23-10020-01 CR58 CSS 3/14/2024 11:40 AM

Biditem

CEMENT STABILIZED BACKFILL

1

Takeoff Qty: 1.000 CY Bid Qty: 1.000 CY

Manhours	Unit/MH	MH/Unit	Unit/CH
0.3600	2.7778	0.3600	0.0000

Activity: 10	Install Cement Stabilized Sand	Quantity: 1.00	Unit: CY
	Manhours	Unit/MH	MH/Unit
	0.3600	2.7778	0.3600

Calendar: 510 5 Shifts 10 Hours per Shift Hrs/Shift: 10 WC: 5560 Paving

Resource	Description	Pcs/Wst	e Quantity Unit
2SAND1	Cement Sand (1.5sack)	1.00	1.62 TN
UL	□ Laborer - Utility	2.00	0.12 MH
UOP	□ Pipe Layer	1.00	0.12 MH
UPLH	□ Pipe Layer Helper	1.00	0.12 MH

Biditem

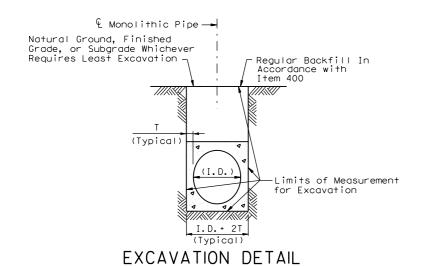
9000000

INDIRECTS

Takeoff Qty: 1.000 LS Bid Qty: 1.000 LS

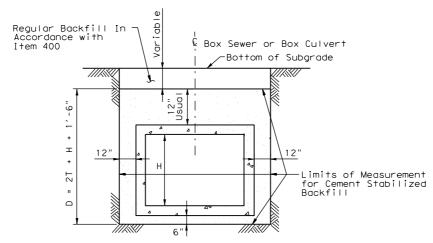
Calendars Used In Estimate

5 Shifts 10 Hours per Shift



MONOLITHIC PIPE

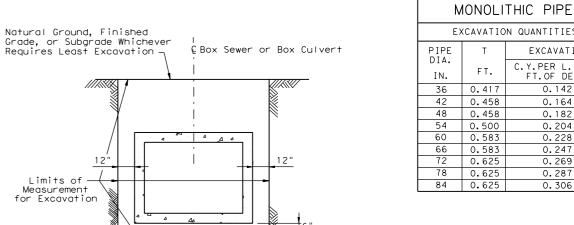
IN A PAVED OR GRADED AREA



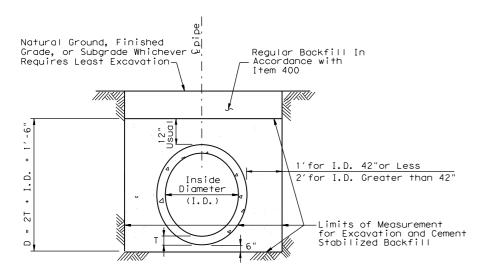
BACKFILL DETAIL

BOX CULVERTS IN A GRADED OR PAVED AREA INCLUDING DETOURS *

REINFORCED CONCRETE PIPE							
	EXCAVATION AND BACKFILL QUANTITIES						
PIPE DIA.	Т	CULVERT OR SEWER EXCAVATION IN A PAVED OR GRADED AREA	CEMENT STABILIZED BACKFILL IN A PAVED OR GRADED AREA				
IN.	FT.	C.Y.PER L.F.PER FT.OF DEPTH	C.Y.PER L.F. OF PIPE				
18	0.19	0.144	0.383				
24	0.23	0.23 0.165 0.478					
30	0.29	0.188	0.586				
36	0.33	0.210	0.692				
42	0.38	0.231	0.808				
48	0.42	0.327	1.394				
54	0.46	0.349	1.560				
60	0.50	0.370	1.731				
66	0.54	0.392	1.907				
72	0.58	0.414	2.088				
78	0.62	0.435	2.275				
84	0.67	0.67 0.457 2.474					

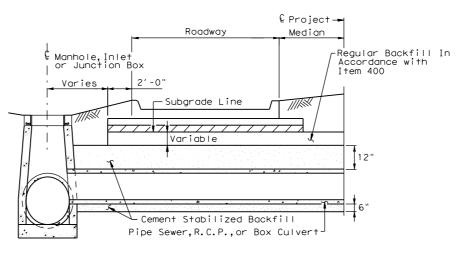


EXCAVATION QUANTITIES EXCAVATION C.Y.PER L.F.PER FT.OF DEPTH 0.142 0.164 0.182 0.204 0.228 0.247 0.269 0.287 0.306



EXCAVATION & BACKFILL DETAIL

REINFORCED CONCRETE PIPE IN A GRADED OR PAVED AREA INCLUDING DETOURS



BACKFILL DETAIL AT MANHOLE, INLET OR JUNCTION BOX

NOTE:

Cement stabilized backfill may be omitted in private driveways as indicated elsewhere in the plans.

Rubber gaskets shall be required for all joints on proposed cross drainage, pipe culverts and proposed storm sewer systems, unless otherwise shown in the plans.

* Backfill with cement stabilized material will be required for all structures under detours unless noted otherwise in the General Notes.



EXCAVATION AND BACKFILL DIAGRAMS

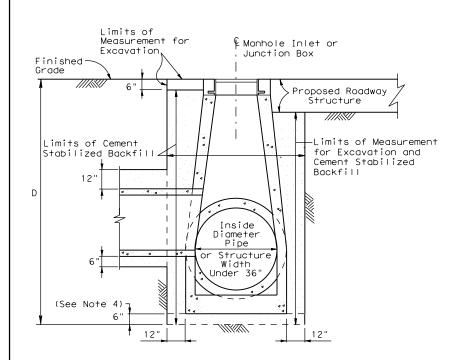
E&BD

	FILE:	STI	DE1.DGN	DN: Txl	Dot	ck: Tx	Dot	Dw: T	xDot	CK:	TxDot
	© T	xDOT	FEB 2010	DIST	FED RE	G	PR	ROJECT N	э.		SHEET
	REVISED	11/05		HOUSTON	6	STF	17	⁷ 02 (4	37) l	MM	152A
_	REVISED		Added note to 1,Sht 2 of 2.		COUN	TY		CONTROL	SECT	JOB	HIGHWAY
:r	REVISED	6/12		BRA	AZO	RIA		0912	31	304	CR 58

H = Height T = Thickness R = Radius

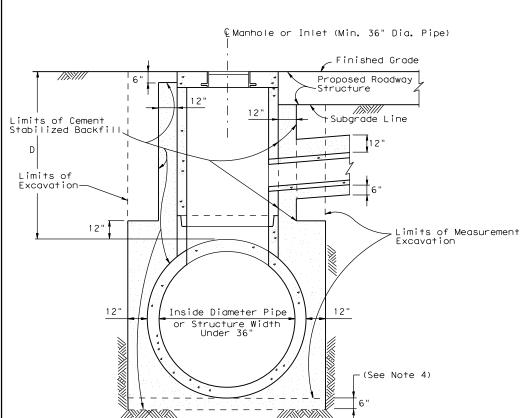
Dia = Diameter

EXCAVATION DETAIL BOX CULVERTS IN A GRADED AREA



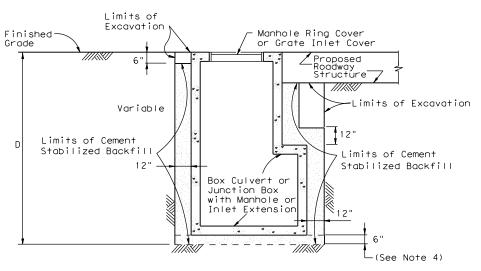
EXCAVATION AND BACKFILL DETAIL

MANHOLES SMALLER THAN 36 IN. IN A PAVED OR GRADED AREAS N.T.S.



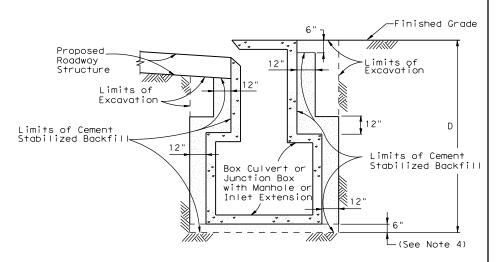
EXCAVATION AND BACKFILL DETAIL

MANHOLES 36 IN. AND GREATER IN A PAVED OR GRADED AREA N.T.S.



EXCAVATION AND BACKFILL DETAIL

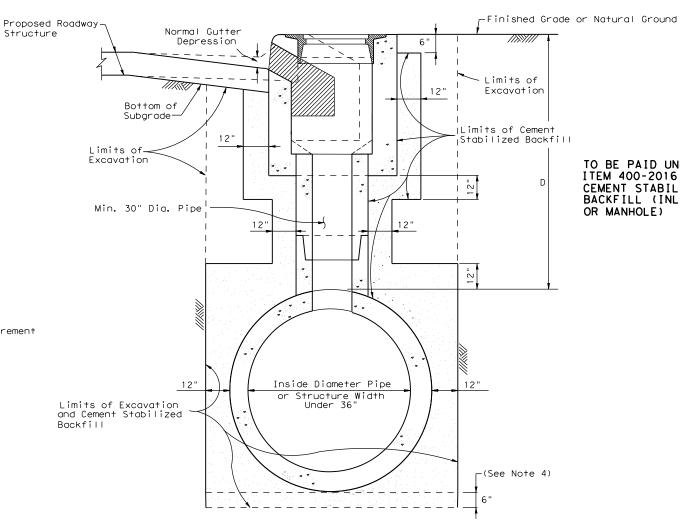
JUNCTION BOXES IN A PAVED OR GRADED AREA N.T.S.



EXCAVATION AND BACKFILL DETAIL

INLET EXTENSIONS ON A BOX CULVERT IN A PAVED OR GRADED AREA

N.T.S.



EXCAVATION AND BACKFILL DETAIL

CURB INLETS IN A PAVED OR GRADED AREA N.T.S.

TO BE PAID UNDER ITEM 400-2016 CEMENT STABILIZED BACKFILL (INLET OR MANHOLE)

D = Depth

H = Height
T = Thickness
R = Radius
Dia = Diameter

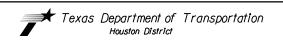
TABLE					
SCHEDULE FOR PAY QUANTITIES OF CEMENT STABILIZED BACKFILL (SEE NOTE 1)					
MANHOLE OR INLET DEPTH (D) IN FEET	CEMENT STABILIZED BACKFILL IN CUBIC YARDS				
0 through 5	5.75				
> 5 through 10	8.25				
greater than 10	12.75				

TABLE I

NOTES:

- 1. The Contractor is paid a fixed estimated amount for cement stabilized backfill based on depth (D) and Table. 1.
- Proposed roadway structure includes pavement, base and any subgrade.
- For backfill of intersecting pipes and box culverts, see "Excavation and Backfill Diagram for Pipes and Box Culverts."
- 4. 6" cement stabilized backfill will be required only for precast units.

SHEET 2 OF 2



EXCAVATION AND BACKFILL DIAGRAMS

E&BD

	FILE: STDE1.DGN			DN: TxDot			ck: TxDc	†	DW:	T	xDot	CK:	TxDot	
	© T	×DOT		2010	DIST	FED R	EG		PR	OJECT	N	٥.		SHEET
	REVISIONS REVISED 11/05 REVISED 2/2010 Added note to Table 1. REVISED 6/12			HOUSTON	6		STP '	17	02 (4	37)	MM	152E	
				COUNTY				CONTR	OL	SECT	JOB	H I GHWAY		
	HE A I ZED	6/12			BRAZORIA					091	2	31	304	CR 5

Winkler, Michael

From: Wael Tabara < WaelT@brazoriacountytx.gov>

Sent: Monday, March 25, 2024 8:40 AM
To: Winkler, Michael; Barbara Martinez
Cc: Cervantes, Javier; Landry, Tony

Subject: RE: FW: CR58 - Update of Outstanding Issues

This Message Is From an External Sender

This message came from outside your organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Report Suspicious

Approved. Please submit in PM Vitals and let me know once ready for my review and approval.

Best Regards,

Wael Tabara, P.E., MASc, CFM, Env SP

Assistant County Engineer



Brazoria County Engineering

451 N. Velasco, Suite 230, Angleton, TX 77515 **O** (979) 864-1265

New email address

E <u>WaelT@brazoriacountytx.gov</u> <u>www.brazoriacountytx.gov</u>

From: Winkler, Michael <michael.winkler@aecom.com>

Sent: Wednesday, March 20, 2024 2:24 PM

To: Wael Tabara < WaelT@brazoriacountytx.gov>; Barbara Martinez < BarbaraM@brazoriacountytx.gov> Cc: Cervantes, Javier < javier.cervantes@aecom.com>; Landry, Tony < Anthony.Landry@aecom.com>

Subject: [EXTERNAL] FW: CR58 - Update of Outstanding Issues

Wael,

Please see attached proposal for the cement stabilized sand that was discussed in today's meeting. The contractor lowered the price to \$71.19/CY from the original \$86 or so that was listed as the current average low bid price.

Let me know if the County is ok with the proposal.

Thank you,

Mike Winkler, PE AECOM (281) 702-4247 (Cell) From: Chris Burke < chris@icontx.com > Sent: Thursday, March 14, 2024 11:51 AM

To: Winkler, Michael < michael.winkler@aecom.com >; Keith Burke < Keith@icontx.com >

Cc: Wael Tabara < <u>WaelT@brazoriacountytx.gov</u>>; Landry, Tony < <u>Anthony.Landry@aecom.com</u>>; Nathan Burke

<Nathan@icontx.com>; Barbara Martinez <BarbaraM@brazoriacountytx.gov>; Cervantes, Javier

<javier.cervantes@aecom.com>

Subject: Re: CR58 - Update of Outstanding Issues

Mike,

See attached breakdown for the CSS installation. We used a factor of 1.62 tons per CY. Let us know what you think.

Regards,



CHRIS BURKE

(832) 328-3170

COO

Chris@iCONTX.com

iCONTX.com

(713) 551-ICON (4266)

14115 Norhill Pointe Dr. Houston, Tx 77044

Bid@iCONTX.com

From: Winkler, Michael < michael.winkler@aecom.com >

Sent: Tuesday, March 12, 2024 12:03 PM

To: Keith Burke < Keith@icontx.com>

Cc: Wael Tabara < <u>WaelT@brazoriacountytx.gov</u>>; Landry, Tony < <u>Anthony.Landry@aecom.com</u>>; Chris Burke < <u>chris@icontx.com</u>>; Nathan Burke < <u>Nathan@icontx.com</u>>; Cesar Hernandez < <u>cesar.hernandez@icontx.com</u>>; Barbara Martinez < <u>BarbaraM@brazoriacountytx.gov</u>>; Cervantes, Javier < <u>javier.cervantes@aecom.com</u>> Subject: RE: CR58 - Update of Outstanding Issues

Keith,

Received, thank you. We are working to resolve the utility issues today. Centerpoint is working today to remove all topped poles except the two with a cable on them. I am working with the County on the first three items; I have called and e-mailed the City of Pearland Engineer, but do not have a response on the casing yet.

Last, we had discussed the average low bid pricing for the cement sand. Recent County projects were bid around \$50/CY and the current average low bid for the Houston District is about \$85/CY. We were wanting to see if you can provide a labor, equipment, and materials price breakdown of the cost per CY that Icon would estimate? If this will not make a difference from the average low bid let me know.

Thank you for partnering with us on these.

Thank you,

Mike Winkler, PE AECOM (281) 702-4247 (Cell)

From: Keith Burke < Keith@icontx.com > Sent: Monday, March 11, 2024 11:19 AM

To: Winkler, Michael < michael.winkler@aecom.com >

Cc: Wael Tabara < <u>WaelT@brazoriacountytx.gov</u>>; Landry, Tony < <u>Anthony.Landry@aecom.com</u>>; Chris Burke < <u>chris@icontx.com</u>>; Nathan Burke < <u>Nathan@icontx.com</u>>; Cesar Hernandez < <u>cesar.hernandez@icontx.com</u>> Subject: CR58 - Update of Outstanding Issues

Michael,

I was asked to prepare a list of the following issues outstanding at this time.

- 1. Tire disposal
- 2. Waterwells to be abandoned
- 3. Septic systems to be abandoned
- ATT conflicts with storm sewer at Angelica and N Central @NE Corner
- 5. ATT poles to be removed all along ROW
- 6. Bores for Force Main....use casing or not. If using casing which type spacers and end seals?? Poly or stainless?? 3 week lead time on stainless.
- 7. CO on Cement Sand......Can we please have this processed soon so we can be compensated on March pay application??

We would sincerely appreciate your assistance with these issues at your earliest convenience.

Please call to discuss as necessary.

Regards,

BUILDING THE FUTURE KEITH BURKE (713) 858-9878							
CEO Keith@iCONTX.com							
iCONTX.com							
(713) 551-ICON (4266)							
14115 Norhill Pointe Dr. Houston, Tx 77044							
Bid@iCONTX.com							

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SUMMARY OF CONTRACT MODIFICATIONS

DATE CCSJ COUNTY CONTRAC REVISED C CONTRAC CONTRAC	CONT PRICE T X 25%	0912- BRA \$6,15 \$6,26 \$1,53	03, 2024 -03-304 ZORIA 50,000.00 68,175.40 87,500.00 15,000.00	OFFICE / LGPP PM HIGHWAY CONTRACT WORK DA DAYS ADD TAD TOTAL AD	C DAY DED DED [DAYS		BRAZORIA COUNTY / WAEL TABARA, PE CR 58 220 COMPLETED		
								ACCEPTED		
CO TE	NET	CHANGE	CO TOTAL TO DATE	ABSOLUTE TOTAL TO DATE	DA	TAD	TDA	REMARKS		
1	\$118,	175.40	\$118,175.40	\$118,175.40	0	0	220			