Received

Received

NOV 1 3 2019

WILLIAMSON COUNTY, TEXAS CHANGE ORDER NUMBER: 1

NOV 07 2019

HNTB Corporation

Davind	Doole			
1. CONTRACTOR: Champion Site Prep	ROCK		Project:	1805-229
2. Change Order Work Limits: Sta. 10+00 to	Sta.	34+48	Roadway:	Bagdad Road at CR 278
3. Type of Change(on federal-aid non-exempt projects):	Minor	(Major/Minor)	CSJ	
4. Reasons: 1A & 3F (3 Max In order	of importa	nce - Primary first)	Number:	
5. Describe the work being revised: 1A: Design Error or Omission. Incorrect PS&E. This change of meter to the 12" waterline. This change order also replaces the 12the park. 3F: County Convenience. Additional work desired be connection of 12" waterline to the waterline installed by others at landscape irrigation, and 4" PVC sleeves under roadway for future replaces the Type 1 ground box with a Type D ground box for the	order adds DR-18 wat by the Cou the west of the ririgation the communication the attache de attache to execut The Time E	enew bid items for the erline pipe called for in unty. This change ordend of the park road, for and electrical needs ication line along the ped. Water line Sheet d: Yes Item N/A are attact this Change Orden er following information.	the plans with a radds new bid or additional tap in the park. This park road. L7, L8 and ITS No. ned. r (CO).	a DR-14 pipe inside items for the ping saddle for schange order also
Typed/Printed Name Brandon Tanner Typed/Printed Title Project Manager				
RECOMMENDED FOR EXECUTION: State	A	County Commission		Date EST APPROVAL
N/A Design Engineer Date	A	County Commission	1	Date EST APPROVAL
Program Manager Date Design Engineer's Seal:	A	County Commission		Date EST APPROVAL
esign Engineer's Seal.	A	County Commission		Date EST APPROVAL
		County J	ıdge	Date

APPROVED

WILLIAMSON COUNTY, TEXAS

CHANGE ORDER NUMBER: _		Project # _	1805-229
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TABLE A: Force Account Work and Materials Placed into Stock

LABOR	HOURLY RATE		HOURLY RATE	

TABLE B: Contract Items:

				ORIGINAL + PRE	/IOUSLY REVISED	ADD or (DEDUCT)		NEW	
ITEM	DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	ITEM COST	QUANTITY	QUANTITY	ITEM COST	OVERRUN/ UNDERRUN
510-1	12" PVC DR-18 C900 ALL DEPTHS INCLUDING EXCAVATION AND BACKFILL, COMPLETE AND IN PLACE	LF	\$72.90	2,550.00	\$185,895.00	(2,450.00)	100.00	\$7,290.00	(\$178,605.00)
510-4	12" PVC DR-14 C900 ALL DEPTHS INCLUDING EXCAVATION AND BACKFILL, COMPLETE AND IN PLACE	LF	\$77.15	0.00	\$0.00	2,450.00	2,450.00	\$189,017.50	\$189,017.50
510-5	CONNECT TO PARK WATERLINE (12"), COMPLETE AND IN PLACE	LS	\$3,173.50	0.00	\$0.00	1.00	1.00	\$3,173.50	\$3,173.50
510-6	TAPPING FOR IRRIGATION SERVICES	LS	\$3,850.00	0.00	\$0.00	1.00	1.00	\$3,850.00	\$3,850.00
520-3	6" SERVICE METER INSTALLATION W/ METER VAULT	LS	\$32,340.00	0.00	\$0.00	1.00	1.00	\$32,340.00	\$32,340.00
624-6014	GROUND BOX TY 1 (122422) W/ APRON	EA	\$4,212.00	4.00	\$16,848.00	(4.00)	0.00	\$0.00	(\$16,848.00)
624-6010	GROUND BOX TY D (162922)W/APRON	EA	\$1,351.00	0.00	\$0.00	8.00	8.00	\$10,808.00	\$10,808.00
510-WC01	SLEEVES FOR FUTURE IRRIGATION (4")	LS	\$9,680.00	0.00	\$0.00	1.00	1.00	\$9,680.00	\$9,680.00
	TOTALS		L		\$202,743.00			\$256,159.00	\$53,416.00

CHANGE ORDER REASON(S) CODE CHART

Design Error or Omission	1A. Incorrect PS&E
	1B. Other
Differing Site Conditions	2A. Dispute resolution (expense caused by conditions and/or resulting delay)
(unforeseeable)	2B. Unavailable material
	2C. New development (conditions changing after PS&E completed)
	2D. Environmental remediation
	2E. Miscellaneous difference in site conditions (unforeseeable)(Item 9)
	2F. Site conditions altered by an act of nature
	2G. Unadjusted utility (unforeseeable)
	2H. Unacquired Right-of-Way (unforeseeable)
	2I. Additional safety needs (unforeseeable)
	2J. Other
3. County Convenience	3A. Dispute resolution (not resulting from error in plans or differing site conditions)
	3B. Public relations improvement
	3C. Implementation of a Value Engineering finding
	3D. Achievement of an early project completion
	3E. Reduction of future maintenance
	3F. Additional work desired by the County
	3G. Compliance requirements of new laws and/or policies
	3H. Cost savings opportunity discovered during construction
	3I. Implementation of improved technology or better process
	3J. Price adjustment on finished work (price reduced in exchange for acceptance)
	3K. Addition of stock account or material supplied by state provision
	3L. Revising safety work/measures desired by the County
	3M. Other
Third Party Accommodation	4A. Failure of a third party to meet commitment
	4B. Third party requested work
	4C. Compliance requirements of new laws and/or policies (impacting third party)
	4D. Other
5. Contractor Convenience	5A. Contractor exercises option to change the traffic control plan
	5B. Contractor requested change in the sequence and/or method of work
	5C. Payment for Partnering workshop
	5D. Additional safety work/measures desired by the contractor
	5E. Other
G. Untimoly DOW/Hallain	CA. Dight of May not clear (third party respects it it is for DOM)
Untimely ROW/Utilities	6A. Right-of-Way not clear (third party responsibility for ROW)
	6B. Right-of-Way not clear (County responsibility for ROW)
	6C. Utilities not clear
	6D. Other

Williamson County Road Bond Program

Bagdad Road at CR 278 Williamson County Project No. 1805-229

Change Order No. 1

Reason for Change

This Change Order adds new bid items and adjusts quantities for the utility construction inside the River Ranch Park. The following are the reasons for the changes:

<u>Water Line</u>: This Change Order adds a service meter and replaces DR-18 pipe with DR-14 pipe for the 12" waterline inside the park as required by the Engineer. This Change Order compensates the Contractor for additional work and material, in order to connect the 12" waterline to the waterline installed by others at the west end of the park road. This Change Order adds an irrigation stub-out on the 12" waterline and 4" PVC sleeves under the roadway for future irrigation needs inside the park.

<u>Communication Line</u>: This Change Order also replaces the Type 1 ground boxes with Type D ground boxes per RFI 6 response. Type D ground boxes are available at a lower cost and still meet the project requirements.

Following is a summary of the new items required for this Change Order:

ITEM	DESCRIPTION	QTY	UNIT
510-4	12" PVC DR-14 C900 ALL DEPTHS INCLUDING EXCAVATION AND BACKFILL, COMPLETE AND IN PLACE	2450	LF
510-5	CONNECT TO PARK WATERLINE (12"), COMPLETE AND IN PLACE	1	LS
510-6	TAPPING FOR IRRIGATION SERVICES	1	LS
520-3	6" SERVICE METER INSTALLATION W/ METER VAULT	1	LS
510-WC01	SLEEVES FOR FUTURE IRRIGATION (4")	1	LS
624-6010	GROUND BOX TY D (162922)W/APRON	8	EA

This Change Order results in an increase of \$53,416.00 to the Contract amount, for an adjusted Contract total of \$3,012,416.00. The original Contract amount was \$2,959,000.00. Because of this Change Order, \$53,416.00 has been added to the Contract, resulting in a 1.8% net increase in the Contract cost. No additional days will be added to or deducted from the Contract as a result of this Change Order.

HNTB Corporation

James Klotz, P.E.

Backup Calculation for CO#1 Item 510-1 and 510-4

The original contract includes a bid item for Class DR-18 PVC pipe. Per discussion with the City of Liberty Hill, DR-18 pipe is acceptable for the city side of the main (100LF), but the waterline engineer confirmed that Class DR-14 is required for the waterline inside the county park (approximately 2450LF). The attached quotes from the material supplier indicate that the material cost of DR-14 pipe is \$4.25 per foot higher than DR-18 pipe. The bid price to install DR-18 pipe is \$72.90. The submitted price for DR-14 pipe is \$72.90 + \$4.25 = \$77.15.

Item	Unit Rate	Quantity	Item Cost
12" PVC DR-18 Waterline	\$72.90	-2,450 LF	-\$178,605.00
12" PVC DR-14 Waterline	DR-14 Waterline \$77.15		\$189,017.50
	\$10,412.50		

Feng Chen

From: Clayton Weber

Sent: Thursday, March 28, 2019 7:51 AM

To: Feng Chen **Subject:** FW: CR 279

See below

Clayton K. Weber

Construction Manager

From: Brandon Tanner <brandon@idigdirt.com>
Sent: Wednesday, March 27, 2019 5:33 PM
To: Clayton Weber <cweber@HNTB.com>

Subject: Re: CR 279

I misquoted on my end. This is the correct amount.

On Wed, Mar 27, 2019 at 5:24 PM Clayton Weber < cweber@hntb.com> wrote:

You previous request was for \$4.75. This difference is \$4.25. Let me know what's in the last 0.50 cents.

Clayton K. Weber

Construction Manager

Tel (512) 539-9342 Email cweber@hntb.com

From: Brandon Tanner < brandon@idigdirt.com>
Sent: Wednesday, March 27, 2019 2:44 PM

To: Clayton Weber < cweber@HNTB.com>; Feng Chen < fechen@HNTB.com>

Subject: CR 279

Clayton/Feng, Here is the breakout showing the difference in the cost of waterline pipe. Please let me know if you need anything else.

Brandon Tanner | Sr. Project Manager | O: 512-863-3453

C: 512-966-5532



WE'LL MOVE THE EARTH FOR YOU







This e-mail and any files transmitted with it are confidential and are intended solely for the use of the individual or entity to whom they are addressed. If you are NOT the intended recipient and receive this communication, please delete this message and any attachments. Thank you.



Bid Proposal for Copy of CR279 AT RIVER RANCH COUNTY PARK ROAD

Bid #: 882047

Seq#	Qty	Description	Units	Price	Ext Price
420		WATER			
440		12" PVC DR18			
450	2540	12 C900 DR14 PVC PIPE (G) BLU 20' PC305	FT	18.87	47,929.80
460	3	12 DETECTABLE TAPE WATER	EA	100.00	300.00
470	1	12 MJ 45 C153 IMP	EA	130.55	130.55
480	12	12 MJ 22-1/2 C153 IMP	EA	114.10	1,369.20
490	8	12 MJ 11-1/4 C153 IMP	EA	107.10	856.80
500	2	12X10 MJ RED C153 IMP	EA	82.95	165.90
510	1	12 MJ CAP C153 IMP	EA	63.35	63.35
520	45	12 PVC 4012P STARGRIP RESTRNT W/ACC C900-PVCPK4012	EA	95.44	4,294.80
530	2	10 3010P DI STARGRIP RESTR (I) W/ACC - SGDPPK10	EA	61.65	123.30
540	8	UFR1390-C-12-I BELL HARNESS C900/D1 PIPE TO PIPE IMP	EA	109.76	878.08
				SUBTOTAL	56,111.78
560		12" GATE VALVE			
570	3	12 AFC 2512MM MJ RW GV OL L/A DI BODY	EA	1,444.20	4,332.60
580	6	12 MJ REGULAR ACC SET	EA	34.47	206.82
590	3	C5 AUSTIN VALVE BOX BASE ONLY CITY OF AUSTIN SPEC IMPORT	EA	34.37	103.11
600	3	C6 AUSTIN VLV BOX PAVING RING CITY OF AUSTIN SPEC IMPORT	EA	16.11	48.33
610	3	C7 AUSTIN VALVE BOX WATER LID CITY OF AUSTIN SPEC IMPORT	EA	10.13	30.39
620	9	6 TJ CL50 PR350 DI PIPE	FT	15.83	142.47
				SUBTOTAL	4,863.72
640		2" AIR RELEASE VALVE			
650	1	317-143214-000 12X2IP SADDLE EPOXY W/304SS STRAPS 12.62-14.32 OD	EA	107.05	107.05
660	1	FB1100-7GNL 2 BALLCORP MIPXGJ (CTS) (NO LEAD)	EA	236.76	236.76
670	100	2X100' CTS PE TUBING 200PSI PE3408 NSF SDR-9 D2737	FT	1.41	141.00
680	2	#55 2 SS INSERT F/CTS PE	EA	2.29	4.58
690	1	C84-77G 2 CPLG MIPXGJCTS	EA	75.94	75.94
700	1	B11-777-HT67SNL 2 BALL CURB W/INTEGRAL LEVER HANDLE NO LEAD	EA	259.54	259.54
710	1	2X4 BRASS NIPPLE NO LEAD (I)	EA	14.04	14.04
	1	2 945 KIN COMB AIR VLV 150PSI FIPT-150PSI-EMPIRE	EA	481.97	481.97
720				16.67	16.67
720 730		7 (3ATV STREET 90) BENT) MIPXEIP	FΑ		_0.0,
730	1	2 GALV STREET 90 BEND MIPXFIP 2X6 STD GALV NIPPLE	EA FA		4 40
730 740	1	2X6 STD GALV NIPPLE	EA	4.40	
730 740 750	1 1 1	2X6 STD GALV NIPPLE 411-023801-003 2X5 STL CPLG 2.38 OD EPOXY W/GALV B&N	EA EA	4.40 50.40	50.40
730 740 750 760	1 1 1 1	2X6 STD GALV NIPPLE 411-023801-003 2X5 STL CPLG 2.38 OD EPOXY W/GALV B&N 2X12 STD GALV NIPPLE	EA EA EA	4.40 50.40 9.65	50.40 9.65
730 740 750 760 770	1 1 1 1	2X6 STD GALV NIPPLE 411-023801-003 2X5 STL CPLG 2.38 OD EPOXY W/GALV B&N 2X12 STD GALV NIPPLE 2 STD GALV 90 BEND FIPXFIP	EA EA EA	4.40 50.40 9.65 12.51	50.40 9.65 12.51
730 740 750 760 770 780	1 1 1 1 1 1	2X6 STD GALV NIPPLE 411-023801-003 2X5 STL CPLG 2.38 OD EPOXY W/GALV B&N 2X12 STD GALV NIPPLE 2 STD GALV 90 BEND FIPXFIP 2X36 STD GALV NIPPLE	EA EA EA EA	4.40 50.40 9.65 12.51 33.01	50.40 9.65 12.51 33.01
730 740 750 760 770 780 790	1 1 1 1 1 1 1	2X6 STD GALV NIPPLE 411-023801-003 2X5 STL CPLG 2.38 OD EPOXY W/GALV B&N 2X12 STD GALV NIPPLE 2 STD GALV 90 BEND FIPXFIP 2X36 STD GALV NIPPLE 2" MUSHROOM STYLE VENT CAP F/2" AIR VALVE APCO	EA EA EA EA EA	4.40 50.40 9.65 12.51 33.01 14.63	50.40 9.65 12.51 33.01 14.63
730 740 750 760 770 780 790 800	1 1 1 1 1 1 1 1	2X6 STD GALV NIPPLE 411-023801-003 2X5 STL CPLG 2.38 OD EPOXY W/GALV B&N 2X12 STD GALV NIPPLE 2 STD GALV 90 BEND FIPXFIP 2X36 STD GALV NIPPLE 2" MUSHROOM STYLE VENT CAP F/2" AIR VALVE APCO 3'X3'X3' CONCRETE RISER	EA EA EA EA EA EA	4.40 50.40 9.65 12.51 33.01 14.63 360.00	50.40 9.65 12.51 33.01 14.63 360.00
730 740 750 760 770 780 790	1 1 1 1 1 1 1	2X6 STD GALV NIPPLE 411-023801-003 2X5 STL CPLG 2.38 OD EPOXY W/GALV B&N 2X12 STD GALV NIPPLE 2 STD GALV 90 BEND FIPXFIP 2X36 STD GALV NIPPLE 2" MUSHROOM STYLE VENT CAP F/2" AIR VALVE APCO	EA EA EA EA EA	4.40 50.40 9.65 12.51 33.01 14.63	50.40 9.65 12.51 33.01 14.63 360.00 1,995.56
730 740 750 760 770 780 790 800 810	1 1 1 1 1 1 1 1	2X6 STD GALV NIPPLE 411-023801-003 2X5 STL CPLG 2.38 OD EPOXY W/GALV B&N 2X12 STD GALV NIPPLE 2 STD GALV 90 BEND FIPXFIP 2X36 STD GALV NIPPLE 2" MUSHROOM STYLE VENT CAP F/2" AIR VALVE APCO 3'X3'X3' CONCRETE RISER H-2O RATED LID 36"X36"	EA EA EA EA EA EA	4.40 50.40 9.65 12.51 33.01 14.63 360.00 1,995.56	50.40 9.65 12.51 33.01 14.63 360.00 1,995.56
730 740 750 760 770 780 790 800 810	1 1 1 1 1 1 1 1	2X6 STD GALV NIPPLE 411-023801-003 2X5 STL CPLG 2.38 OD EPOXY W/GALV B&N 2X12 STD GALV NIPPLE 2 STD GALV 90 BEND FIPXFIP 2X36 STD GALV NIPPLE 2" MUSHROOM STYLE VENT CAP F/2" AIR VALVE APCO 3'X3'X3' CONCRETE RISER H-20 RATED LID 36"X36" FIRE HYDRANT	EA EA EA EA EA EA	4.40 50.40 9.65 12.51 33.01 14.63 360.00 1,995.56	50.40 9.65 12.51 33.01 14.63 360.00 1,995.56
730 740 750 760 770 780 790 800 810 830 840	1 1 1 1 1 1 1 1 1	2X6 STD GALV NIPPLE 411-023801-003 2X5 STL CPLG 2.38 OD EPOXY W/GALV B&N 2X12 STD GALV NIPPLE 2 STD GALV 90 BEND FIPXFIP 2X36 STD GALV NIPPLE 2" MUSHROOM STYLE VENT CAP F/2" AIR VALVE APCO 3'X3'X3' CONCRETE RISER H-20 RATED LID 36"X36" FIRE HYDRANT QUOTING PER DETAIL	EA EA EA EA EA EA EA	4.40 50.40 9.65 12.51 33.01 14.63 360.00 1,995.56 SUBTOTAL	50.40 9.65 12.51 33.01 14.63 360.00 1,995.56 3,817.71
730 740 750 760 770 780 790 800 810	1 1 1 1 1 1 1 1	2X6 STD GALV NIPPLE 411-023801-003 2X5 STL CPLG 2.38 OD EPOXY W/GALV B&N 2X12 STD GALV NIPPLE 2 STD GALV 90 BEND FIPXFIP 2X36 STD GALV NIPPLE 2" MUSHROOM STYLE VENT CAP F/2" AIR VALVE APCO 3'X3'X3' CONCRETE RISER H-20 RATED LID 36"X36" FIRE HYDRANT	EA EA EA EA EA EA	4.40 50.40 9.65 12.51 33.01 14.63 360.00 1,995.56	4.40 50.40 9.65 12.51 33.01 14.63 360.00 1,995.56 3,817.71



Bid Proposal for CR279 AT RIVER RANCH COUNTY PARK ROAD

Bid #: 678182

Seq#	Qty	Description	Units	Price	Ext Price
470		WATER			
490		12" PVC DR18			
500	2540	12 C900 DR18 PVC PIPE (G) BLU PC235	FT	14.62	37,134.80
510	3	12 DETECTABLE TAPE WATER	EA	100.00	300.00
520	1	12 MJ 45 C153 IMP	EA	130.55	130.55
530	12	12 MJ 22-1/2 C153 IMP	EA	114.10	1,369.20
540	8	12 MJ 11-1/4 C153 IMP	EA	107.10	856.80
550	2	12X10 MJ RED C153 IMP	EA	82.95	165.90
560	1	12 MJ CAP C153 IMP	EA	63.35	63.35
570	45	12 PVC 4012P STARGRIP RESTRNT W/ACC C900-PVCPK4012	EA	95.44	4,294.80
580	2	10 3010P DI STARGRIP RESTR (I) W/ACC - SGDPPK10	EA	61.65	123.30
590	8	UFR1390-C-12-I BELL HARNESS C900/D1 PIPE TO PIPE IMP	EA	109.76	878.08
	· 			SUBTOTAL	45,316.78
610		12" GATE VALVE			
620	3	12 AFC 2512MM MJ RW GV OL L/A DI BODY	EA	1,444.20	4,332.60
630	6	12 MJ REGULAR ACC SET	EA	34.47	206.82
640	3	C5 AUSTIN VALVE BOX BASE ONLY CITY OF AUSTIN SPEC IMPORT	EA	34.37	103.11
650	3	C6 AUSTIN VLV BOX PAVING RING CITY OF AUSTIN SPEC IMPORT	EA	16.11	48.33
660	3	C7 AUSTIN VALVE BOX WATER LID CITY OF AUSTIN SPEC IMPORT	EA	10.13	30.39
670	9	6 TJ CL50 PR350 DI PIPE	FT	15.83	142.47
				SUBTOTAL	4,863.72
690		2" AIR RELEASE VALVE			
700	1	317-143214-000 12X2IP SADDLE EPOXY W/304SS STRAPS 12.62-14.32 OD	EA	107.05	107.05
710	1	FB1100-7GNL 2 BALLCORP MIPXGJ (CTS) (NO LEAD)	EA	236.76	236.76
720	100	2X100' CTS PE TUBING 200PSI PE3408 NSF SDR-9 D2737	FT	1.41	141.00
730	2	#55 2 SS INSERT F/CTS PE	EA	2.29	4.58
740	1	C84-77G 2 CPLG MIPXGJCTS	EA	75.94	75.94
750	1	B11-777-HT67SNL 2 BALL CURB W/INTEGRAL LEVER HANDLE NO LEAD	EA	259.54	259.54
760	1	2X4 BRASS NIPPLE NO LEAD (I)	EA	14.04	14.04
770	1	2 945 KIN COMB AIR VLV 150PSI FIPT-150PSI-EMPIRE	EA	481.97	481.97
780	1	2 GALV STREET 90 BEND MIPXFIP	EA	16.67	16.67
790	1	2X6 STD GALV NIPPLE	EA	4.40	4.40
800	1	411-023801-003 2X5 STL CPLG 2.38 OD EPOXY W/GALV B&N	EA	50.40	50.40
810	1	2X12 STD GALV NIPPLE	EA	9.65	9.65
820	1	2 STD GALV 90 BEND FIPXFIP	EA	12.51	12.51
	1	2X36 STD GALV NIPPLE	EA	33.01	33.01
830		2" MUSHROOM STYLE VENT CAP F/2" AIR VALVE APCO	EA	14.63	14.63
830 840	1				360.00
840	1	3'X3'X3' CONCRETE RISER	∣ FA ∣	360.00	
840 850	1	3'X3'X3' CONCRETE RISER H-20 RATED LID 36"X36"	EA FA	360.00 1.995.56	
840		3'X3'X3' CONCRETE RISER H-2O RATED LID 36"X36"	EA EA	1,995.56 SUBTOTAL	1,995.56
840 850 860	1	H-2O RATED LID 36"X36"		1,995.56	1,995.56
840 850 860 880	1	H-20 RATED LID 36"X36" FIRE HYDRANT		1,995.56	1,995.56
840 850 860 880 890	1 1	H-20 RATED LID 36"X36" FIRE HYDRANT QUOTING PER DETAIL	EA	1,995.56 SUBTOTAL	1,995.56 3,817.71
840 850 860 880	1	H-20 RATED LID 36"X36" FIRE HYDRANT		1,995.56	1,995.56 3,817.71 763.00 954.40

REQUEST FOR CHANGE ORDER

BRANDON@IDIGDIRT.COM

12"\	Λ.	1atar	Tia	ln	
12 1	ΙV	alei	116		

 DATE:
 09/11/19
 JOB NAME:
 CR 279

 TO:
 HNTB
 ESTIMATOR:
 BT

ATTN: Feng Chen LOCATION: Liberty Hill

	<u>DESCRIPTION</u>	<u>QTY</u>	<u>UNIT</u>	<u>RATE</u>	
	LABOR				
1.	Forman	10	HR	\$35.00	\$350.00
	Operator	10	HR	\$24.00	\$240.00
	Laborer	10	HR	\$14.50	\$145.00
	MATERIAL				
	12" Sleeves	2	EA	\$125.00	\$250.00
	MJ Fittings	4	EA	\$50.00	\$200.00
	EQUIPMENT				
	Excavator	5	HR	\$205.00	\$1,025.00
	Loader	5	HR	\$135.00	\$675.00
				Total:	\$2,885.00
	OH/P	10	%	\$288.50	\$288.50

Pricing above to connect 12" waterline as requested by HNTB. Anything not listed

NOTE: above is not included in price.

*Price valid for 30 days

<u>TOTAL CREDIT:</u> \$3,173.50

ACCEPTANCE OF PROPOSAL- The above prices, specifications and conditions are satisfactory and are hereby accepted.

AUTHORIZED SIGNATURE DATE OF ACCEPTANCE

REQUEST FOR CHANGE ORDER

BRANDON@IDIGDIRT.COM

Irrigation Service								
DATE: TO: ATTN:	09/05/19 HNTB Feng Chen		JOB NAME: ESTIMATOR: LOCATION:		CR 279 BT Liberty Hill			
	DESCRIPTION	<u> QТҮ</u>	<u>UNIT</u>	<u>RATE</u>				
1.	Irrigation Service	1	LS	\$3,500.00		\$3,500.00		
2.	ОН/Р	10	%	Total: \$350.00		\$3,500.00 \$350.00		
	Mateial			\$1,500.0	00			
	Labor			\$750.0				
	Equipment			\$1,250.0	00			
NOTE:	Pricing above install 2" irrigation Anything not listed above is not in *Price valid for 30 days		ce does no	t include meter	:			
				TOTAL CREDI	<u>T:</u>	\$3,850.00		
ACCEPTA	NCE OF PROPOSAL- The above price	s, specifications and con	ditions are	satisfactory an	d are hereby acce	pted.		
AUTHOR	IZED SIGNATURE			DATE OF AC	CEPTANCE			

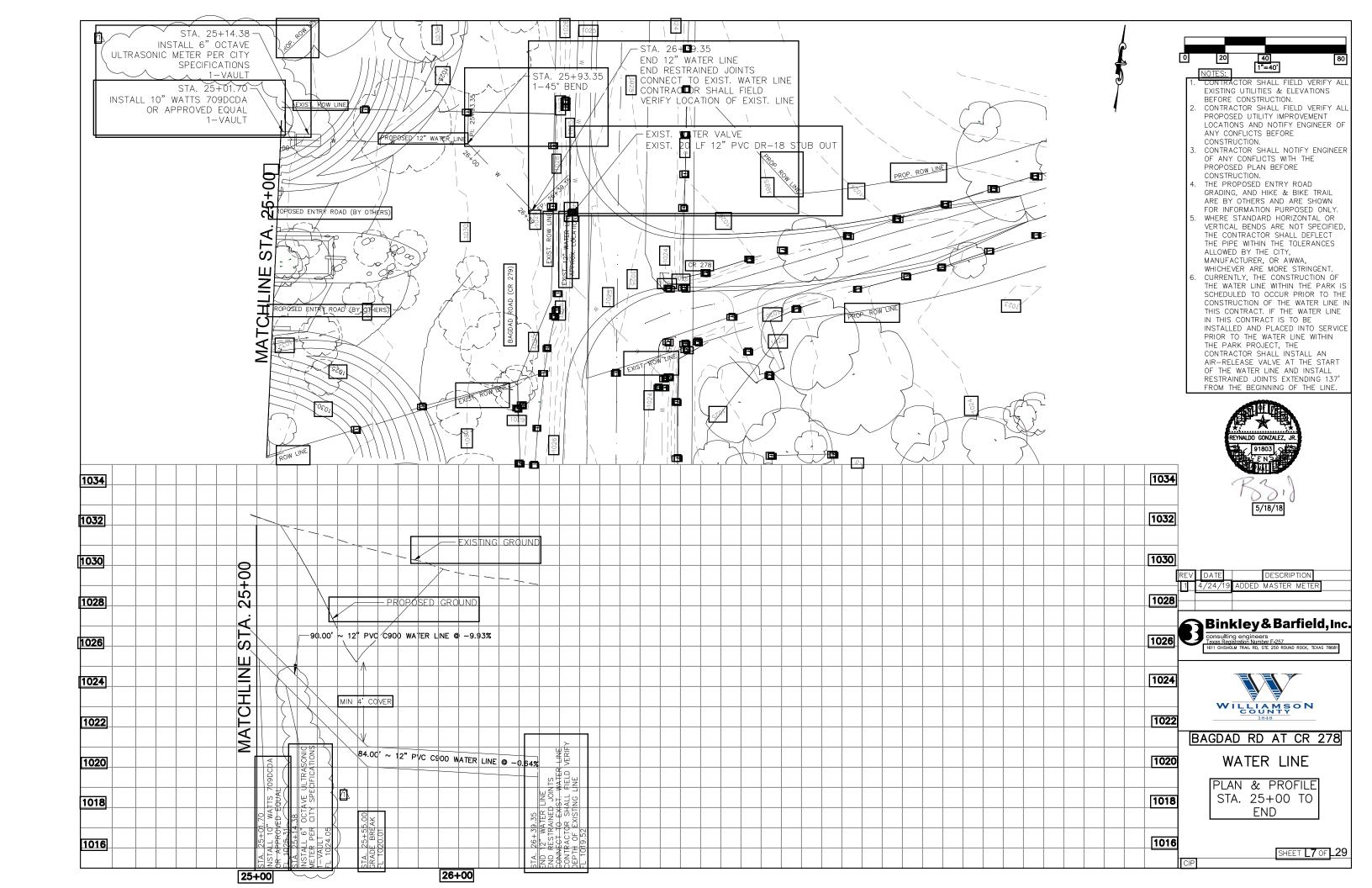


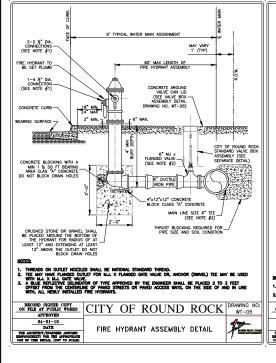
REQUEST FOR CHANGE ORDER

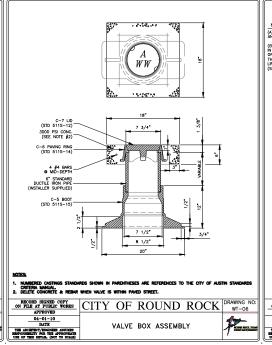
BRANDON/BIDIGDIRT.COM

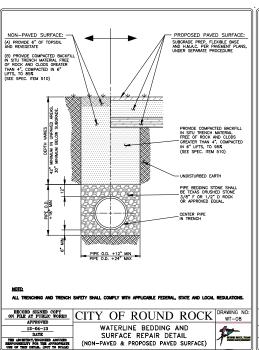
55		6" Meter Ass	embly			
DATE: TO: ATTN:	08/14/19 HNTB Feng Chen		JOB NA ESTIMA LOCATI	ATOR:	CR 279 BT Liberty Hill	
	DESCRIPTION	QTY	UNIT	RATE		
1.	6" Meter Assembly	1	LS	\$29,400.00		\$29,400.00
				Total:		\$29,400.00
2.	OH/P	10	96	\$2,940.00		\$2,940.00
NOTE:	Pricing above includes price 6" met meter. Anything not listed above is *Price valid for 30 days		Price does	not include		
				TOTAL CREDE	23	
				TOTAL CREDIT	13	\$32,340.00
АССЕРТАЛ	NCE OF PROPOSAL- The above prices,	specifications and cond	litions are s			

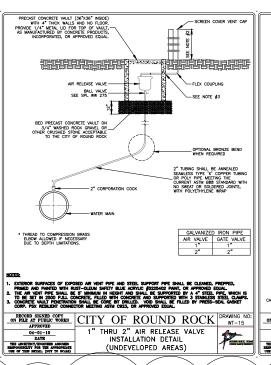
Page 1 of 2 Page 2 of 2

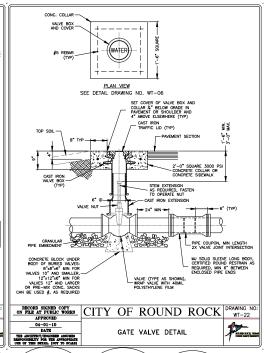


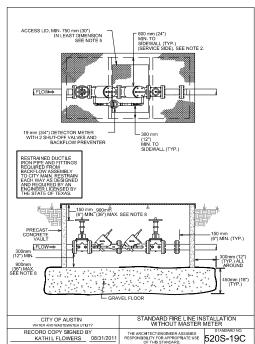


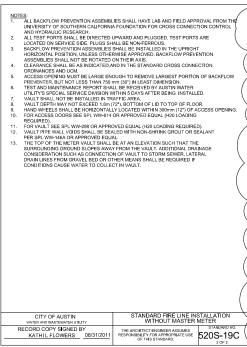


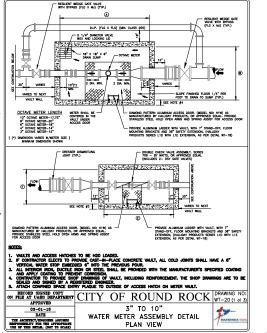


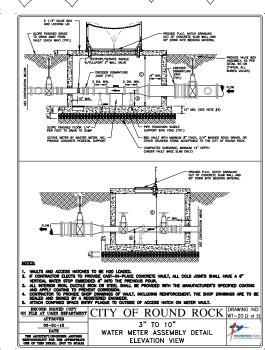












The Inc.				WATE	R METE	R VAULT S	SCHEDULE		
B	TAC	3 NO.	DESCRIPTION		VAULT NO. (3" METER)	1 VAULT NO. 2 (4" METER)	VAULT NO. 3 (6" METER)		VAULT NO. 5 (10" METER)
C SMARAN WALT HORDY		A .	MINIMUN VALLE LENGTH		6'-0"	6'-0"	8'-0"	9"-0"	12"-0"
D MANAGE PRE-MEDIT 18" 18" 18" 18" 18" 18" 18" 18" 18" 18" 18" 18" 18" 18" 19"		8	MINMUN WALLT WIDTH		4'-0"	4'-0"	6'-0"	6'-0"	6'-0"
- SCHEE WEERS ST S* 6* 6* 10* 127 127 127 127 127 127 127 127 127 127		С	MINMUN VAULT HEIGHT		4'-0"	4'-0"	6'-6"	6'-6"	6'-6"
		D	MINMUN PIPE HEIGHT		18"	18"	24"	24"	24"
DOUBLE-LEAF ACCESS DOOR		-	OCTAVE METER SIZE		3*	4"	6-	8"	10"
BACKFLOW PREVENTOR VAULT SCHEDULE		-	METER LAY LENGTH		12"	14"	18"	20"	17.75
100 100		-	DOUBLE-LEAF ACCESS DO	OR	42" x 42"	42" x 42"	42" x 42"	60" x 60"	60" x 60"
	TAG NO.	_		_					
G MINICAL RIGHT 4"-9" 4"-9" 6"-8" 6"-8" 6"-8" 6"-8" 6"-8" 8"-8" 8"-8" 8"-8" 8"-8" 8"-8" 8"-8" 8"-8" 8"-8" 8"-8" 8"-8" 8"-8" 8" 8"-8" 8" 8" 10"		1	DESCRIPTION	(2, 8	T NO. 1 NCKFLOW)	(4" BACKFLOW)	(6" BACKFLOW)	(8" BACKFLOW)	(10° BACKFLE
H MINIMAN PPE HODIT 15" 16" 24" 24" 24" 24" - 8400H, CON PPENENTON SIZE 3" 4" 6" 8" 10"	E	MNMU		(2, B	EXFLOW)	(4" BACKFLOW)	(6" BACKFLOW)	(8" BACKFLOW)	(10" BACKFLS
- BACKFLOW PREVENTOR SIZE 3" 4" 6" 8" 10"	_	_	N WAULT LENGTH	(2, 8	-o	7'-0"	(6" BACKFLOW)	(8" BACKFLOW)	10"-0"
	F	MNMU	N WULT LENGTH	(3" 8	-0 -0	7"-0" 5"-0"	6" BACKFLOW)	(6" BACKFLOW) 9"-0"	10"-0"
- DOUBLE-LEAF ACCESS DOOR 42" x 42"	F G	MNMU	N WULT LENGTH N WULT WEITH N WULT HEIGHT	(3" 8	-0'	(4" BACKFLOW) 7"-0" 5"-0" 4"-0" 18"	(6" BACKFLOW) 8"-0" 6"-0" 6"-6" 24"	(6" BACKFLOW) 9"-0" 5"-0" 6"-6"	10'-0" 6'-6"
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H MINIMAN PPE HODHT 18" 18" 24" 24" 24" 24" - BACKILON PREVENTION SIZE 3" 4" 6" 8" 10"					T NO. 1	VAULT NO. 2	WULT NO. 3	VAULT NO. 4	WAULT NO.
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	F G	MNMU	N WULT LENGTH N WULT WEITH N WULT HEIGHT	(2, 8	-0 -0 -0	(4" BACKFLOW) 7"-0" 5"-0" 4"-0"	(6" BACKFLOW) 8'-0" 6'-6"	(6" BACKFLOW) 9"-0" 5"-0" 6"-6"	10"-BACKFL
- 000000-000 0000 14 4 74 12 12 12 12 12 12 12 12	F G	MINMU MINMU MINMU	N WULT LENGTH N WULT WEETH N WULT HEIGHT	(3" 8	-0'	(4" BACKFLOW) 7"-0" 5"-0" 4"-0" 18"	(6" BACKFLOW) 8"-0" 6"-0" 6"-6" 24"	(8" BACKFLOW) 9"-0" 5"-0" 6"-6" 24"	10'-0" 8'-0" 6'-6"
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VAULT SCHEDULE



I		R	EΥ	DATE		DESCRIF	PTION
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н	I 7						

Binkley & Barfield, Inc.

consulting engineers
Texas Registration Number F-257
Intil this Note That, IRD, SET 250 ROUND ROOK, TEXAS 78881



BAGDAD RD AT CR 278
WATER LINE

WATER LINE DETAILS

SHEET L8 OF L29

REQUEST FOR CHANGE ORDER

BRANDON@IDIGDIRT.COM

	Ground Box Type D					
DATE: TO: ATTN:	04/26/19 HNTB Feng Chen		JOB NA ESTIMA LOCAT	ATOR:	CR 279 BT Liberty Hill	
	DESCRIPTION	<u>QTY</u>	<u>UNIT</u>	<u>RATE</u>		
1.	Ground Box Type D w/Apron,Extension, Ground	8	EA	\$1,351.00		\$10,808.00
2.	Credit-Ground Box Type 1	4	EA	-\$4,212.00		-\$16,848.00
NOTE:	Pricing above includes price for updated Type -D requested. Credit for bid item 56 Type-1 boxes. included in price. *Price valid for 30 days					
				TOTAL CREDI	<u>T:</u>	-\$6,040.00
АССЕРТА	NCE OF PROPOSAL- The above prices, specifications	s and cor	nditions are	satisfactory and	d are hereby acce	pted.
AUTHOR	IZED SIGNATURE			DATE OF ACC	CEPTANCE	



PROJECT: Bagdad at CR 278/Park Road Wilco No. 1805-229 DATE: 3/11/19 TO: HNTB: Fabian Kalapach, PE REFERENCE: ITS ground boxes for multi duct conduit PROBLEM: Question Type D ground boxes are a third the cost of the ITS ground boxes originally specified. More boxes may be needed because the distance between boxes should be 300 - 350 ft for wire pulls instead of the 800 feet called for in the plans. Is it acceptable to use the Type D ground boxes along the Park Road and on the remaining portions of the project? RECOMMENDED SOLUTION: Use the smaller Type D ground boxes along the Park Road and on the remaining portions of the project.	REQUEST FOR INFORMATION FORM				
REFERENCE: ITS ground boxes for multi duct conduit PROBLEM: Question Type D ground boxes are a third the cost of the ITS ground boxes originally specified. More boxes may be needed because the distance between boxes should be 300 - 350 ft for wire pulls instead of the 800 feet called for in the plans. Is it acceptable to use the Type D ground boxes along the Park Road and on the remaining portions of the project? RECOMMENDED SOLUTION: Use the smaller Type D ground boxes along the Park Road and on the remaining portions of the project. Clayton Weber, HNTB, Construction Manager Originator Christen Eschberger, PE, HNTB Supervisor RESPONSE: The Type D ground boxes can be used as an alternative to the large concrete ground boxes called out in the plans for the ITS layout. See the attached details ED(4)-14. Fabian Kalapach, PE 2/6/2019	RFI NO.: PROJECT:	Bagdad at CR 278/Park Road	RESPON	SE REQUESTED BY	
PROBLEM: Question Type D ground boxes are a third the cost of the ITS ground boxes originally specified. More boxes may be needed because the distance between boxes should be 300 - 350 ft for wire pulls instead of the 800 feet called for in the plans. Is it acceptable to use the Type D ground boxes along the Park Road and on the remaining portions of the project? RECOMMENDED SOLUTION: Use the smaller Type D ground boxes along the Park Road and on the remaining portions of the project. Clayton Weber, HNTB, Construction Manager Originator Christen Eschberger, PE, HNTB Supervisor RESPONSE: The Type D ground boxes can be used as an alternative to the large concrete ground boxes called out in the plans for the ITS layout. See the attached details ED(4)-14. Fabian Kalapach, PE 2/6/2019	то:	HNTB: Fabian Kalapach, PE			
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Use the smaller Type D ground boxes along the Park Road and on the remaining portions of the project. Clayton Weber, HNTB, Construction Manager Christen Eschberger, PE, HNTB Supervisor	needed becaus	e the distance between boxes should be 30	0 - 350 ft for w	vire pulls instead of the	800 feet called for
Clayton Weber, HNTB, Construction Manager Originator RESPONSE: The Type D ground boxes can be used as an alternative to the large concrete ground boxes called out in the plans for the ITS layout. See the attached details ED(4)-14. Fabian Kalapach, PE 2/6/2019	RECOMMEND	ED SOLUTION:			
Manager Originator Supervisor RESPONSE: The Type D ground boxes can be used as an alternative to the large concrete ground boxes called out in the plans for the ITS layout. See the attached details ED(4)-14. Fabian Kalapach, PE 2/6/2019	Use the smalle	,, ,	and on the re	emaining portions or the	project.
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	, ,			crete ground boxes call	ed out in the

Sign, Date & Return to HNTB via e-mail.

Mail original to: **NA** HNTB Corporation

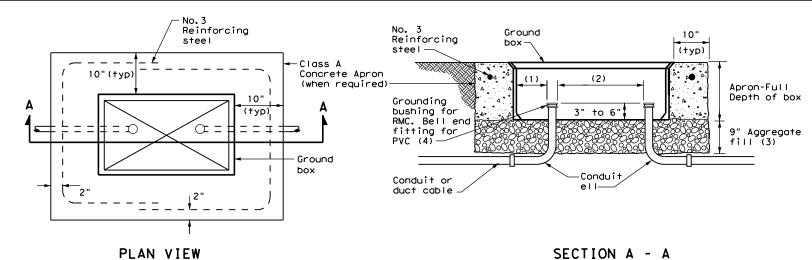
101 E. Old Settlers Blvd. Suite 100

Round Rock, Texas 78664

Attachments to RFI:

Email concerning vaults

Cc:

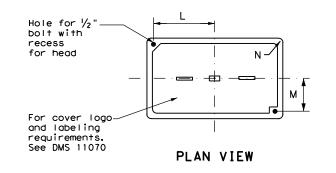


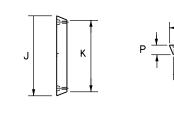
APRON FOR GROUND BOX

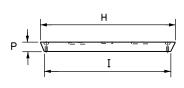
- (1) Uniformly space ends of conduits within the ground box. Position ends of conduits so that ground box walls do not interfere with the installation of grounding bushings or bell end fittings.
- (2) Maintain sufficient space between conduits to allow for proper installation of bushing.
- (3) Place aggregate under the box, not in the box. Aggregate should not encroach on the interior volume of the box.
- (4) Install a grounding bushing on the upper end of all RMC terminating in a ground box. Ground RMC elbows when any part of the elbow is less than 18 in, below the bottom of the ground box. Install a PVC bushing or bell end fitting on the upper end of all PVC conduits terminating in a ground box.

GROUND BOX DIMENSIONS				
TYPE	OUTSIDE DIMENSIONS (INCHES) (Width x Length X Depth)			
А	12 X 23 X 11			
В	12 X 23 X 22			
С	16 X 29 X 11			
D	16 X 29 X 22			
E	12 X 23 X 17			

GROUND BOX COVER DIMENSIONS								
DIMENSIONS (INCHES)								
TYPE	Н	I	J	К	L	М	N	Р
A, B & E	23 1/4	23	13 ¾	13 ½	9 %	5 1/8	1 3/8	2
C & D	30 ½	30 1/4	17 ½	17 1/4	13 1/4	6 ¾	1 3/8	2







SIDE

GROUND BOX COVER

END

GROUND BOXES

- A. MATERIALS
- 1. Provide polymer concrete ground boxes measuring 16x30x24 in. (WxLxD) or smaller in accordance with Departmental Material Specification (DMS) 11070 "Ground Boxes" and Item 624 "Ground Boxes."
- 2. Provide Type A, B, C, D, and E ground boxes as shown in the plans, and as listed on the Material Producers List (MPL) on the Department web site under "Roadway Illumination and Electrical Supplies, " Item 624.
- 3. Ensure ground box cover is correctly labeled in accordance with DMS 11070.
- 4. Provide larger ground boxes in accordance with Item 624 and as shown in the plans.
- B. CONSTRUCTION METHODS
- 1. Remove all gravel and dirt from conduit. Cap all conduits prior to placing aggregate and setting ground box. Provide Grade 3 or 4 coarse aggregate as shown on Table 2 of Item 302 "Aggregates for Surface Treatments." Ensure aggregate bed is in place and at least 9 inches deep, prior to setting the ground box. Install ground box on top of agareagte.
- 2. Cast ground box aprons in place. Reinforcing steel may be field bent. Ensure the depth of concrete for the apron extends from finished grade to the top of the aggregate bed under the box. Ground box aprons, including concrete and reinforcing steel, are subsidiary to ground boxes when called for by descriptive code.
- 3. Keep bolt holes in the box clear of dirt. Bolt covers down when not working in ground boxes.
- 4. Install all conduits and ells in a neat and workmanlike manner. Uniformly space conduits so grounding bushings and bell end fittings can easily be installed.
- 5. Temporarily seal all conduits in the ground box until conductors are installed.
- 6. Permanently seal conduits immediately after the completion of conductor installation and pull tests. Permanently seal the ends of all conduits with duct seal, expandable foam, or other method as approved. Do not use duct tape as a permanent conduit sealant. Do not use silicone caulk as a sealant.
- 7. When a ground rod is present in a ground box, bond all equipment grounding conductors together and to the ground rod with listed connectors.
- 8. When a type B or D ground box is stacked to meet volume requirements, it is allowable to cut an appropriately sized hole for conduit entry in the side wall at least 18 inches below arade.
- 9. If an existing ground box in the contract has a metal cover, bond the cover to the equipment grounding conductor with a 3 ft. long stranded bonding jumper the same size as the grounding conductor. The bonding jumper is subsidiary to various bid items. Verify existing ground boxes with metal covers are shown on the plans, with notes fully describing the work required.
- 10. If other ground boxes with metal covers are within the project limits but are not part of the contract, the Engineer may direct the Contractor to bond the metal covers, identifying the specific boxes in writing. This work will be paid for separately.
- 11. Bond metal ground box covers to the grounding conductor with a tank ground type lug.



ELECTRICAL DETAILS **GROUND BOXES**

ED(4) - 14

			•				
FILE:	ed4-14, dgn	DN: T	xDOT	ck: TxDOT	DW:	TxDOT	ck: TxD0
C TxDOT	October 2014	CONT	SECT	JOB		HIC	CHWAY
	REVISIONS						
		DIST	IST COUNTY		ITS.	<u>-8</u>	
						יין	U

Eddie R. Church

From: Fabian Kalapach

Sent: Wednesday, February 6, 2019 4:21 PM

To: Clayton Weber

Subject: RE: Wilco Park Rd - Bagdad/CR 278

Attachments: ed4-14.pdf

TxDOT standard ED4-14 (see attached).

Fabian Kalapach

Senior Electrical Engineer Engineering Department

HNTB CORPORATION

701 Brazos, Suite 450, Austin, TX 78701 | www.hntb.com

■ 100+ YEARS OF INFRASTRUCTURE SOLUTIONS



From: Clayton Weber

Sent: Wednesday, February 6, 2019 3:51 PM **To:** Fabian Kalapach < fkalapach@HNTB.com>

Cc: Steven Shull <sshull@HNTB.com>; Feng Chen <fechen@HNTB.com>; 62811_1805-229_BagdadRiverRanch

<61272 BagdadRd?CR2781@HNTB.com>; James Klotz < jklotz@HNTB.com>

Subject: RE: Wilco Park Rd - Bagdad/CR 278

Can you provide a standard sheet for this box and we will get some pricing. Thanks.

Clayton K. Weber

Construction Manager

Tel (512-744-9082 Cell (512) 539-9342 Email cweber@hntb.com

HNTB CORPORATION

101 E. Old Settlers Blvd, Ste 100 | Round Rock, Texas 78664 | hntb.com

100+ YEARS OF INFRASTRUCTURE SOLUTIONS

Twitter | LinkedIn | Facebook | Instagram

From: Fabian Kalapach

Sent: Wednesday, February 6, 2019 2:11 PM **To:** Clayton Weber < <u>cweber@HNTB.com</u>>

Cc: Steven Shull <<u>sshull@HNTB.com</u>>; Feng Chen <<u>fechen@HNTB.com</u>>; 62811_1805-229_BagdadRiverRanch

<61272 BagdadRd?CR2781@HNTB.com>; James Klotz <jklotz@HNTB.com>

Subject: RE: Wilco Park Rd - Bagdad/CR 278

I agree. Could use a type D box.

Fabian Kalapach

Senior Electrical Engineer Engineering Department

HNTB CORPORATION

701 Brazos, Suite 450, Austin, TX 78701 | www.hntb.com

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From: Clayton Weber

Sent: Wednesday, February 6, 2019 1:57 PM **To:** Fabian Kalapach < fkalapach@HNTB.com>

Cc: Steven Shull <sshull@HNTB.com>; Feng Chen <fechen@HNTB.com>; 62811_1805-229_BagdadRiverRanch

<61272 BagdadRd?CR2781@HNTB.com>; James Klotz < jklotz@HNTB.com>

Subject: RE: Wilco Park Rd - Bagdad/CR 278

Is there a smaller alternative to the large concrete ground boxes called out in the plans for the ITS layout. There is a single 4" PVC multi duct using these concrete boxes?

Clayton K. Weber

Construction Manager

HNTB CORPORATION

101 E. Old Settlers Blvd, Ste 100 | Round Rock, Texas 78664 | hntb.com

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From: Clayton Weber

Sent: Friday, January 25, 2019 11:44 AM

To: Fabian Kalapach < fkalapach@HNTB.com >
Subject: RE: Wilco Park Rd - Bagdad/CR 278

Great thanks.

Boxes seem very large for a single conduit.

Clayton K. Weber

Construction Manager

Tel (512-744-9082 Cell (512) 539-9342 Email cweber@hntb.com

HNTB CORPORATION

101 E. Old Settlers Blvd, Ste 100 | Round Rock, Texas 78664 | hntb.com

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Twitter | LinkedIn | Facebook | Instagram

From: Fabian Kalapach

Sent: Friday, January 25, 2019 9:24 AM

To: Clayton Weber < cweber@HNTB.com

Subject: Re: Wilco Park Rd - Bagdad/CR 278

Yes that is correct. It is called multi-duct and is available as a standard product

Sent from my iPhone

On Jan 24, 2019, at 9:07 AM, Clayton Weber < cweber@HNTB.com> wrote:

I want to confirm that I am reading this correctly. We are installing a single 4" conduit. Inside that conduit there will be 4 inner ducts.

Clayton K. Weber

Construction Manager

HNTB CORPORATION

101 E. Old Settlers Blvd, Ste 100 | Round Rock, Texas 78664 | hntb.com

<image001.png> 100+ YEARS OF INFRASTRUCTURE SOLUTIONS

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<ITS Sheets.pdf>

REQUEST FOR CHANGE ORDER

BRANDON@IDIGDIRT.COM

	Sleeves					
DATE: TO: ATTN:	10/04/19 HNTB Feng Chen		JOB NAME: ESTIMATOR: LOCATION:		CR 279 BT Liberty Hill	
	<u>DESCRIPTION</u>	<u>QTY</u>	<u>UNIT</u> RATE			
	MOBILIZATION	1	1	\$685.13		\$685.13
1.	LABOR					
	FORMAN W/ TRUCK	25	25	\$45.00		\$1,125.00
	OPERATOR	25	25	\$35.00		\$875.00
	LABORER	25	25	\$25.00		\$625.00
	LABORER	25	25	\$25.00		\$625.00
	TRUCK DRIVER	4	4	\$35.00		\$140.00
	MATERIAL					
	4" SCH 40 PVC (INCLUDES MARKER POSTS)	720	720	\$1.95		\$1,404.00
	CAUTION TAPE	1	1	\$32.35		\$32.35
	GLUE	2	2	\$9.26		\$18.52
	4" PLUGS	16	16	\$1.50		\$24.00
	SAND W/ HAUL	21	21	\$31.00		\$651.00
	EQUIPMENT 450 TRUCK & SMALL TRAILER	4	4	ć	\$ -	¢220.00
		4	4	\$55.00		\$220.00
NOTE:	420 CAT BACKHOE	25	25	\$95.00		\$2,375.00
			Total:			\$8,800.00
	OH/P	10	% \$880	0.00		\$880.00
			тота	L COST:		\$9,680.00

ACCEPTANCE OF PROPOSAL- The above prices, specifications and conditions are satisfactory and are hereby accepted.

AUTHORIZED SIGNATURE	DATE OF ACCEPTANCE