

NOV 13 2019

PSI

Received

NOV 14 2019

WILLIAMSON COUNTY, TEXAS

CHANGE ORDER NUMBER: 1

Received

NOV 07 2019

HNTB Corporation
Round Rock

1. CONTRACTOR: Champion Site Prep
2. Change Order Work Limits: Sta. 10+00 to Sta. 34+48
3. Type of Change(on federal-aid non-exempt projects): Minor (Major/Minor)
4. Reasons: 1A & 3F (3 Max. - In order of importance - Primary first)

Project: 1805-229
 Bagdad Road at
 Roadway: CR 278
 CSJ
 Number: _____

5. Describe the work being revised:

1A: Design Error or Omission. Incorrect PS&E. This change order adds new bid items for the design revision to add a service meter to the 12" waterline. This change order also replaces the DR-18 waterline pipe called for in the plans with a DR-14 pipe inside the park. **3F: County Convenience. Additional work desired by the County.** This change order adds new bid items for the connection of 12" waterline to the waterline installed by others at the west end of the park road, for additional tapping saddle for landscape irrigation, and 4" PVC sleeves under roadway for future irrigation and electrical needs in the park. This change order also replaces the Type 1 ground box with a Type D ground box for the communication line along the park road.

6. Work to be performed in accordance with Items: See attached.
7. New or revised plan sheet(s) are attached and numbered: Water line Sheet L7, L8 and ITS-8
8. New Special Provisions/Specifications to the contract are attached: ☐ Yes ☒ No
9. New Special Provisions to Item N/A No. N/A, Special Specification Item N/A are attached.

Each signatory hereby warrants that each has the authority to execute this Change Order (CO).

The contractor must sign the Change Order and, by doing so, agrees to waive any and all claims for additional compensation due to any and all other expenses; additional changes for time, overhead and profit; or loss of compensation as a result of this change.

The following information must be provided

Time Ext. #: N/A Days added on this CO: 0Amount added by this change order: \$53,416.00

THE CONTRACTOR

Date

By

Typed/Printed Name

Typed/Printed Title

Brandon Tanner
Project Manager

RECOMMENDED FOR EXECUTION:

James D. F. P.E. 11/12/19
 Project Manager Date

N/A
 Design Engineer Date

M. J. J. 11/19/2019
 Program Manager Date

Design Engineer's Seal:

County Commissioner Precinct 1 Date
☐ APPROVED ☐ REQUEST APPROVAL

County Commissioner Precinct 2 Date
☐ APPROVED ☐ REQUEST APPROVAL

County Commissioner Precinct 3 Date
☐ APPROVED ☐ REQUEST APPROVAL

County Commissioner Precinct 4 Date
☐ APPROVED ☐ REQUEST APPROVAL

Bill J. J. 11/26/19
 County Judge Date
☒ APPROVED

WILLIAMSON COUNTY, TEXAS

CHANGE ORDER NUMBER: 1

Project # 1805-229

TABLE A: Force Account Work and Materials Placed into Stock

	LABOR	HOURLY RATE			HOURLY RATE

TABLE B: Contract Items:

				ORIGINAL + PREVIOUSLY 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					\$202,743.00			\$256,159.00	\$53,416.00

CHANGE ORDER REASON(S) CODE CHART

1. Design Error or Omission	1A. Incorrect PS&E 1B. Other
2. Differing Site Conditions (unforeseeable)	2A. Dispute resolution (expense caused by conditions and/or resulting delay) 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
4. 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
6. 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:

Water Line: 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.

Communication Line: 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	\$77.15	2450 LF	\$189,017.50
Difference			\$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

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

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

CHAMPION SITE PREP, INC.

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
720	1	2 945 KIN COMB AIR VLV 150PSI FIPT-150PSI-EMPIRE	EA	481.97	481.97
730	1	2 GALV STREET 90 BEND MIPXFIP	EA	16.67	16.67
740	1	2X6 STD GALV NIPPLE	EA	4.40	4.40
750	1	411-023801-003 2X5 STL CPLG 2.38 OD EPOXY W/GALV B&N	EA	50.40	50.40
760	1	2X12 STD GALV NIPPLE	EA	9.65	9.65
770	1	2 STD GALV 90 BEND FIPXFIP	EA	12.51	12.51
780	1	2X36 STD GALV NIPPLE	EA	33.01	33.01
790	1	2" MUSHROOM STYLE VENT CAP F/2" AIR VALVE APCO	EA	14.63	14.63
800	1	3'X3'X3' CONCRETE RISER	EA	360.00	360.00
810	1	H-2O RATED LID 36"X36"	EA	1,995.56	1,995.56
				SUBTOTAL	3,817.71
830		FIRE HYDRANT			
840		QUOTING PER DETAIL			
850	5	12X6 MJ ANCH TEE C153 IMP	EA	152.60	763.00
860	10	12 PVC 4012P STARGRIP RESTRNT W/ACC C900-PVCPK4012	EA	95.44	954.40
870	5	6 MJ REGULAR ACC SET L/GLAND	EA	14.39	71.95



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 - SGDPK10	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
830	1	2X36 STD GALV NIPPLE	EA	33.01	33.01
840	1	2" MUSHROOM STYLE VENT CAP F/2" AIR VALVE APCO	EA	14.63	14.63
850	1	3'X3'X3' CONCRETE RISER	EA	360.00	360.00
860	1	H-2O RATED LID 36"X36"	EA	1,995.56	1,995.56
				SUBTOTAL	3,817.71
880		FIRE HYDRANT			
890		QUOTING PER DETAIL			
900	5	12X6 MJ ANCH TEE C153 IMP	EA	152.60	763.00
910	10	12 PVC 4012P STARGRIP RESTRNT W/ACC C900-PVCPK4012	EA	95.44	954.40
920	5	6 MJ REGULAR ACC SET L/GLAND	EA	14.39	71.95



CHAMPION SITE PREP

190 PRIVATE ROAD 917
GEORGETOWN, TX 78626
(512) 863-3453 / FAX (512) 863-3463

REQUEST FOR CHANGE ORDER

BRANDON@IDIGDIRT.COM

12" Water Tie In

DATE: 09/11/19
TO: HNTB
ATTN: Feng Chen

JOB NAME: CR 279
ESTIMATOR: BT
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

NOTE: Pricing above to connect 12" waterline as requested by HNTB. Anything not listed above is not included in price.
*Price valid for 30 days

TOTAL CREDIT: **\$3,173.50**

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

AUTHORIZED SIGNATURE

DATE OF ACCEPTANCE



CHAMPION SITE PREP

190 PRIVATE ROAD 917
 GEORGETOWN, TX 78626
 (512) 863-3453 / FAX (512) 863-3463

REQUEST FOR CHANGE ORDER

BRANDON@IDIGDIRT.COM

Irrigation Service

DATE:	09/05/19	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>	
1.	Irrigation Service	1	LS	\$3,500.00	\$3,500.00
				Total:	\$3,500.00
2.	OH/P	10	%	\$350.00	\$350.00
	Mateial			\$1,500.00	
	Labor			\$750.00	
	Equipment			\$1,250.00	

NOTE: Pricing above install 2" irrigation service as requested. Price does not include meter.
 Anything not listed above is not included in price.
 *Price valid for 30 days

TOTAL CREDIT: **\$3,850.00**

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

 AUTHORIZED SIGNATURE

 DATE OF ACCEPTANCE



CHAMPION SITE PREP

190 PRIVATE ROAD 917
GEORGETOWN, TX 78626
(512) 863-3453 / FAX (512) 863-3463

REQUEST FOR CHANGE ORDER

BRANDON@DIGDIRT.COM

6" Meter Assembly

DATE:	08/14/19	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>	
1.	6" Meter Assembly	1	LS	\$29,400.00	\$29,400.00
				Total:	\$29,400.00
2.	OH/P	10	%	\$2,940.00	\$2,940.00

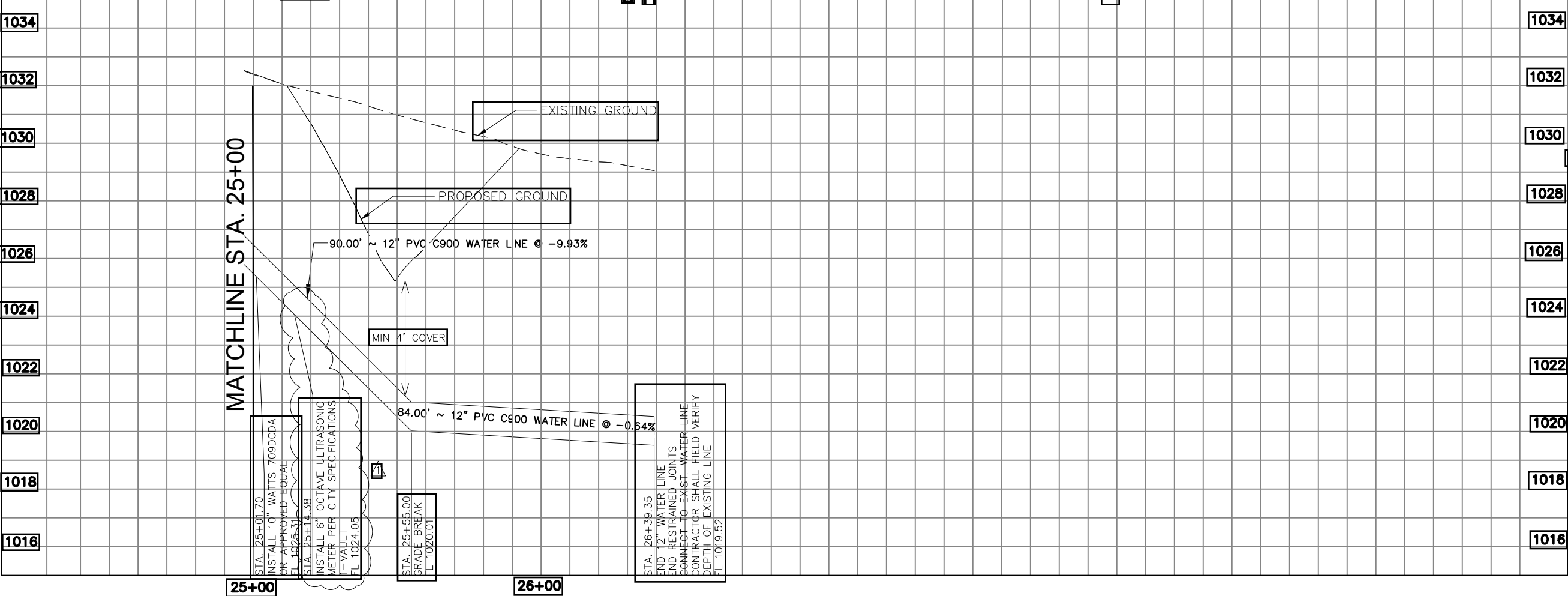
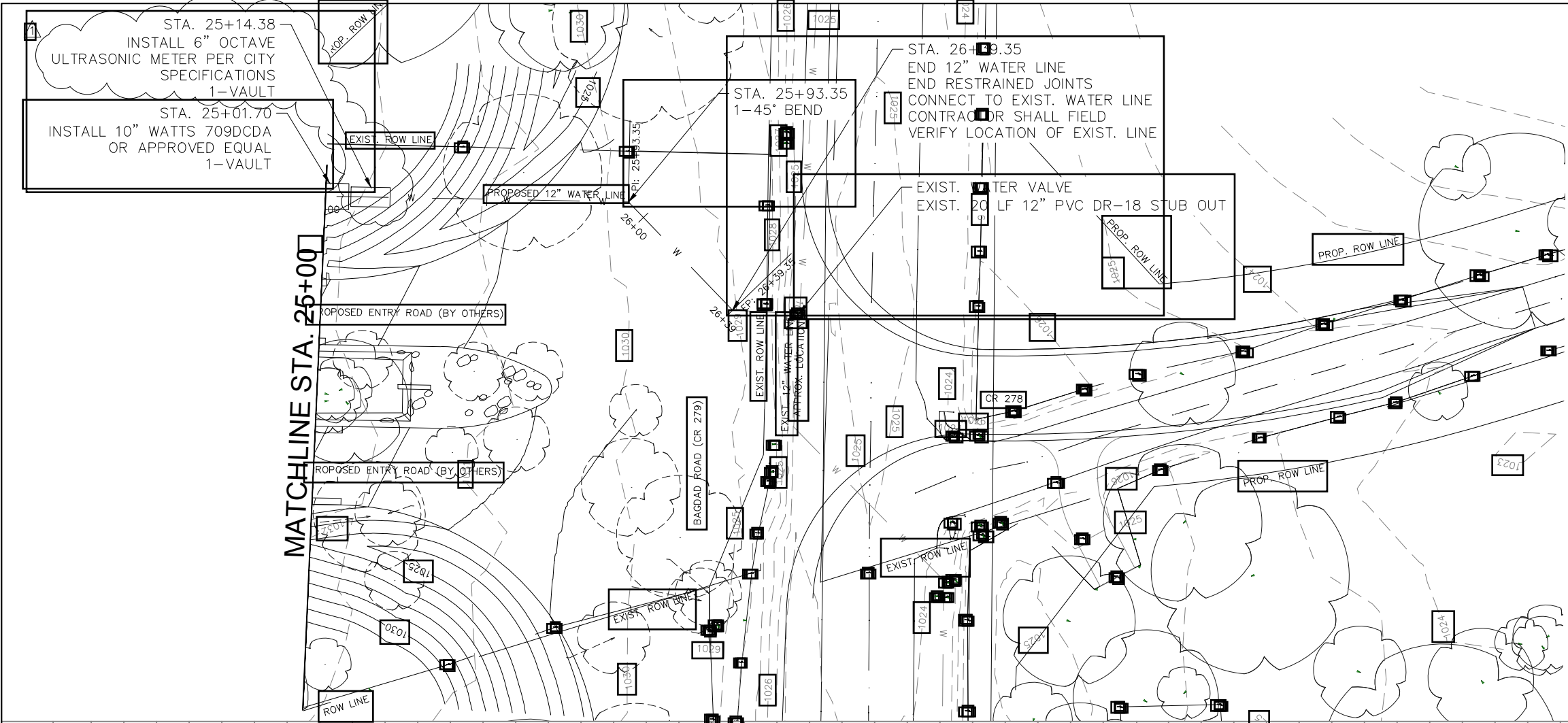
NOTE: Pricing above includes price 6" meter assembly and vault. Price does not include meter. Anything not listed above is not included in price.
*Price valid for 30 days

<u>TOTAL CREDIT:</u>	\$32,340.00
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ACCEPTANCE OF PROPOSAL- The above prices, specifications and conditions are satisfactory and are hereby accepted.

AUTHORIZED SIGNATURE

DATE OF ACCEPTANCE



0204080

1"=40'

NOTES:

1. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITIES & ELEVATIONS BEFORE CONSTRUCTION.

2. CONTRACTOR SHALL FIELD VERIFY ALL PROPOSED UTILITY IMPROVEMENT LOCATIONS AND NOTIFY ENGINEER OF ANY CONFLICTS BEFORE CONSTRUCTION.

3. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY CONFLICTS WITH THE PROPOSED PLAN BEFORE CONSTRUCTION.

4. THE PROPOSED ENTRY ROAD GRADING, AND HIKE & BIKE TRAIL ARE BY OTHERS AND ARE SHOWN FOR INFORMATION PURPOSED ONLY.

5. WHERE STANDARD HORIZONTAL OR VERTICAL BENDS ARE NOT SPECIFIED, THE CONTRACTOR SHALL DEFLECT THE PIPE WITHIN THE TOLERANCES ALLOWED BY THE CITY, MANUFACTURER, OR AWWA, WHICHEVER ARE MORE STRINGENT.

6. CURRENTLY, THE CONSTRUCTION OF THE WATER LINE WITHIN THE PARK IS SCHEDULED TO OCCUR PRIOR TO THE CONSTRUCTION OF THE WATER LINE IN THIS CONTRACT. IF THE WATER LINE IN THIS CONTRACT IS TO BE INSTALLED AND PLACED INTO SERVICE PRIOR TO THE WATER LINE WITHIN THE PARK PROJECT, THE CONTRACTOR SHALL INSTALL AN AIR-RELEASE VALVE AT THE START OF THE WATER LINE AND INSTALL RESTRAINED JOINTS EXTENDING 137' FROM THE BEGINNING OF THE LINE.

REYNALDO GONZALEZ, JR.

91803

ENGINEER

RSG

5/18/18

REV	DATE	DESCRIPTION
1	4/24/19	ADDED MASTER METER

3

Binkley & Barfield, Inc.

consulting engineers

Texas Registration Number E-267

1611 CHISHOLM TRAIL RD, STE 250 ROUND ROCK, TEXAS 78681

W

WILLIAMSON

COUNTY

1848

BAGDAD RD AT CR 278

WATER LINE

PLAN & PROFILE

STA. 25+00 TO

END

CIP

SHEET L7 OF 29



CHAMPION SITE PREP

190 PRIVATE ROAD 917
GEORGETOWN, TX 78626
(512) 863-3453 / FAX (512) 863-3463

REQUEST FOR CHANGE ORDER

BRANDON@IDIGDIRT.COM

Ground Box Type D

DATE:	04/26/19	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>	
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 ground boxes to be used onsite as requested. Credit for bid item 56 Type-1 boxes. Anything not listed above is not included in price.
*Price valid for 30 days

TOTAL CREDIT: **-\$6,040.00**

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

AUTHORIZED SIGNATURE

DATE OF ACCEPTANCE



REQUEST FOR INFORMATION FORM

RFI NO.: 6

DATE: 2/27/19

PROJECT: Bagdad at CR 278/Park Road
Wilco No. 1805-229

RESPONSE REQUESTED BY
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.

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

Responder

2/6/2019

Date

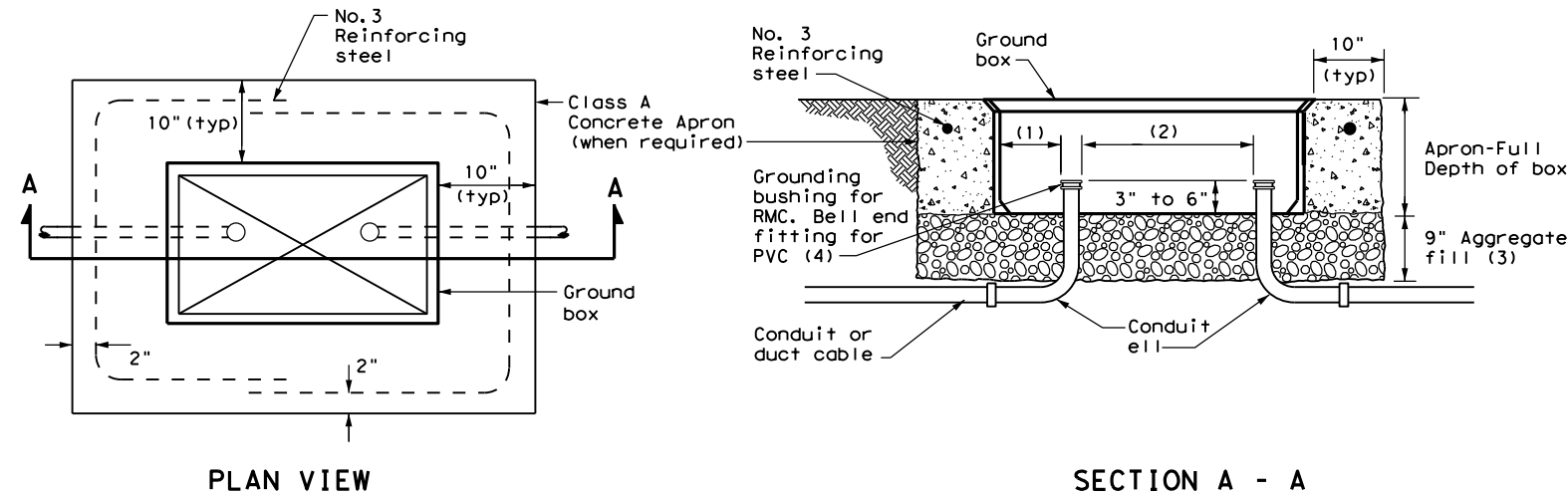
Sign, Date & Return to HNTB **via e-mail**.

Mail original to: **NA** HNTB Corporation
101 E. Old Settlers Blvd. Suite 100
Round Rock, Texas 78664

Attachments to RFI: Email concerning vaults
Cc:

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DATE:
FILE:



APRON FOR GROUND BOX

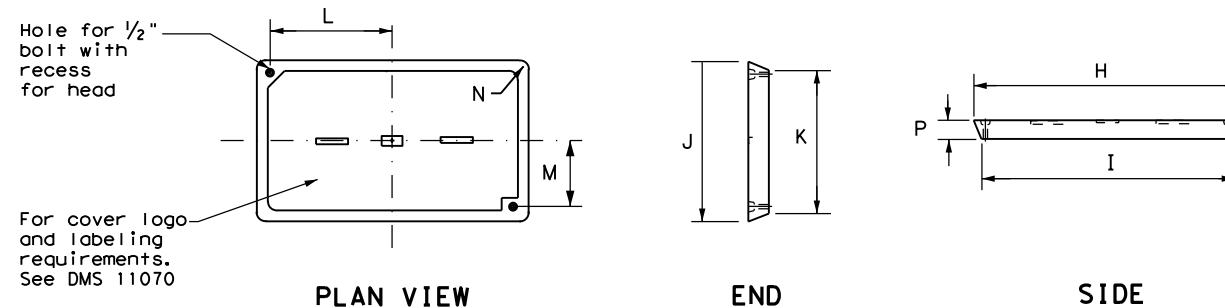
- (1) Uniformly space ends of conduits within the ground box. Position ends of conduits so that ground box walls do not interfere with the installation of grounding bushings or bell end fittings.
- (2) Maintain sufficient space between conduits to allow for proper installation of bushing.
- (3) Place 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)
A	12 X 23 X 11
B	12 X 23 X 22
C	16 X 29 X 11
D	16 X 29 X 22
E	12 X 23 X 17

GROUND BOX COVER DIMENSIONS

TYPE	DIMENSIONS (INCHES)							
	H	I	J	K	L	M	N	P
A, B & E	23 1/4	23	13 3/4	13 1/2	9 7/8	5 1/8	1 3/8	2
C & D	30 1/2	30 1/4	17 1/2	17 1/4	13 1/4	6 3/4	1 3/8	2



GROUND BOX COVER

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 aggregate.
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 grade.
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.

		Traffic Operations Division Standard	
ELECTRICAL DETAILS GROUND BOXES			
ED(4) - 14			
FILE: ed4-14.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT
©TxDOT October 2014	CONT	SECT	JOB
REVISIONS	DIST	COUNTY	ITS-8

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

Tel: 512.691.2272 Cell: 512.529.8655 Fax: 512 447.5329 Email fkalapach@hntb.com

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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

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From: Fabian Kalapach
Sent: Wednesday, February 6, 2019 2:11 PM
To: Clayton Weber <cweber@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

I agree. Could use a type D box.

Fabian Kalapach

Senior Electrical Engineer
Engineering Department

Tel: 512.691.2272 Cell: 512.529.8655 Fax: 512 447.5329 Email fkalapach@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

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

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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

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

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<image001.png> **100+ YEARS OF INFRASTRUCTURE SOLUTIONS**

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<ITS Sheets.pdf>



CHAMPION SITE PREP

190 PRIVATE ROAD 917
GEORGETOWN, TX 78626
(512) 863-3453 / FAX (512) 863-3463

REQUEST FOR CHANGE ORDER

BRANDON@IDIGDIRT.COM

Sleeves

DATE:	10/04/19	JOB NAME:	CR 279
TO:	HNTB	ESTIMATOR:	BT
ATTN:	Feng Chen	LOCATION:	Liberty Hill

	DESCRIPTION	QTY	UNIT	RATE	
1.	MOBILIZATION	1	1	\$685.13	\$685.13
	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	\$55.00	\$220.00
NOTE:	420 CAT BACKHOE	25	25	\$95.00	\$2,375.00
			Total:		\$8,800.00
	OH/P	10	%	\$880.00	\$880.00
			TOTAL COST:		\$9,680.00

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

AUTHORIZED SIGNATURE

DATE OF ACCEPTANCE