



City Council Agenda Item Summary Report

Meeting Date: September 18, 2018

Submitted by: Candy McQuiston, Interim Director of Public Works

Consent

Public Hearing

Action Item X

Item Title: Discuss and consider approval to enter into a contract with RKM Utility Services, Inc. for the construction services for the Redbud Roadway Reconstruction Project and authorize the City Manager to execute the necessary contracts and all related issues.

Summary Statement:

Redbud Roadway Reconstruction Project: CIP #153 & 155

The project will propose roadway improvements to paving, drainage, and utilities from Pinson Road to FM 740.

Attachments:

Exhibit A - Project Estimated Cost Information

Exhibit B - Letter of Recommendation from Design Engineer

Exhibit C - Bid Tabulation

Exhibit D - Engineer's Statement of Probable Construction Cost

Exhibit E - Location Map

At the July 10, 2018, City Council meeting, Council approved an action to allow staff to seek bid proposals for construction for this project. The request for proposals was published in the Forney Messenger, City of Forney website, and Civcast Bid System (Bid Management & Online Bidding for civil engineers and government agencies). Qualified bids were received until September 10, 2018.

There was a total of four qualified bidders who responded to the request. Based on the bid results, feedback from references, and the requirements set forth in the Request for Proposal Specifications, RKM Utility Services, Inc. of Richardson, Texas, with a cost of \$3,754,980.00 for a construction timeframe of 560 calendar days, is recommended for the reconstruction of Redbud Drive.

Staff recommends the approval of the contract with RKM Utility Services, Inc. in the amount of \$3,754,980.00.

Exhibit A

CITY OF FORNEY REDBUD ROADWAY RECONSTRUCTION PROJECT FUNDING INFORMATION

Presented to Council July 10, 2018

CIP Project	Estimated Cost
Design	363,409.68
Construction	3,683,132.39
Material Testing	28,000.00
Atmos Gas Line Relocation <i>(with a 15% contingency)</i>	518,405.74
Construction Contingency 25%	920,783.10
Estimated Total Cost	\$5,513,730.91

Estimated Total Cost as of September 2018

CIP Project	Estimated Cost
Design	363,409.68
Construction RKM Utility Services, Inc <i>(recommended)</i>	3,754,980.00
Material Testing <i>(recommended 2.5% of construction cost)</i>	50,359.06
Atmos Gas Line Relocation <i>(with a 15% contingency)</i>	518,405.74
Construction Contingency 10% <i>(General & Utility Funds combined)</i>	379,340.78
Estimated Total Cost	\$5,066,495.25
Total Overall Approved Funding	\$5,513,730.91

One Project Two Funding Sources (General Fund & Utility Fund) Funding Information Below

General Fund (Paving & Drainage Improvements)		
General Fund Paving and Drainage Only	Estimated Cost	
Description	McMahon Contracting L.P	RKM Utility Services, Inc.
Design	284,450.00	284,450.00
*Construction	2,635,784.88	2,561,851.00
Material Testing (recommended 1.5% of construction cost)	26,357.85	38,427.77
Atmos Gas Line Relocation with a 15% Contingency	518,405.74	518,405.74
Contingency 10% (construction & material testing)	266,214.27	260,027.88
Estimated Project Cost	3,731,212.74	3,663,162.38
Total Approved Funding to Date (General Fund)	4,300,137.74	4,300,137.74
Surplus to go back in to CIP Fund	-568,925.00	-636,975.36
<i>*Referenced below</i>		
<i>* Construction Bid Tabulation Results Breakdown General Fund</i>	McMahon Contracting L.P	RKM Utility Services, Inc.
<i>Paving & Drainage</i>	2,536,582.96	2,474,412.00
<i>Alternates A1</i>	10,334.60	2,000.00
<i>Alternates A2</i>	88,867.32	85,439.00

Utility Fund (Water & Wastewater Improvements)		
Utility Fund (Water & Wastewater Improvements)	Estimated Cost	
Description	McMahon Contracting L.P	RKM Utility Services, Inc.
Design	\$ 78,959.68	\$ 78,959.68
*Construction	\$ 907,803.27	\$ 1,193,129.00
Material Testing (recommended 1% of construction cost)	\$ 9,078.03	\$ 11,931.29
Contingency 10% (construction & material testing)	\$ 90,780.33	\$ 119,312.90
Estimated Project Cost	\$ 1,086,621.31	\$ 1,403,332.87
Total Approved Funding to Date (Utility Fund)	1,213,819.12	1,213,819.12
Required Additional Funding (Utility Fund)	-127,197.81	189,513.75
<i>*Referenced below</i>		
<i>*Construction Bid Tabulation Results Breakdown Utility Fund</i>	McMahon Contracting L.P	RKM Utility Services, Inc.
<i>Water</i>	\$ 403,269.25	\$ 537,699.00
<i>Wastewater</i>	\$ 504,534.02	\$ 655,430.00
Total Utility Fund	\$ 907,803.27	\$ 1,193,129.00

September 13, 2018

Mrs. Candy McQuiston,
Interim Director of Public Works
City of Forney
402 N Bois d'Arc,
Forney, TX 75126

RE: Recommendation of Award for the Redbud Drive Street Improvement Project (Bid # RFP 2018-002)

Dear Candy:

On Monday, September 10, 2018, bids were opened for the construction of the Redbud Drive Street Improvement project. There was a total of four bidders with the following bids:

Bidder	Total Base Bid Amount	Total Bid Alt. No. 1		Total Bid Alt. No. 2		Total Bid Alt. No. 3		Total Bid Alt. No. 4	
		Amount	Add / Deduct Days*	Amount	Add/ Deduct Days*	Amount	Add/ Deduct Days*	Amount	Add/ Deduct Days*
McMahon Contracting, L.P. 3019 Roy Orr Blvd., Grand Prairie, TX 75050	\$ 3,444,386.23	\$ 10,334.60	+10	\$ 88,867.32	+10	\$ 114,459.55	+12	\$ 369,128.70	+36
RKM Utility Services, Inc. 2105 Waterview Parkway, Richardson, TX 75080	\$ 3,667,541.00	\$ 2,000.00	+0	\$ 85,439.00	+10	\$ 134,873.00	+20	\$ 302,020.00	+30
Axis Contracting, Inc. P.O. Box 360715, Dallas, TX 75336	\$ 3,974,067.14	\$ 4,862.00	+14	\$ 96,649.08	+0	\$ 136,203.19	+60	\$ 310,853.40	+180
Tiseo Paving Co. 419 US Highway 80 E, Mesquite, TX 75150	\$ 3,996,669.65	\$ 8,000.00	+14	\$ 127,347.00	+30	\$ 124,806.00	+30	\$ 369,940.00	+60
<p>** Time shown for completion of Bid Alternates is in addition to time allotted for completion of Base Bid. Completion of work included in Base Bid scope items is to be completed as per details outlined in Page P-1 and Page SC-7, Item SC.14 of the Project Contract Documents and Specifications – 550 Calendar Days (Consecutive).</p>									

A bid tabulation is attached to this letter.

All bidders provided a bid bond and acknowledgment of Addendum No. 1, No. 2 and No. 3.

Upon examination of the bids, the following bid irregularities were noted:

1. McMahon Contracting, L.P. – Bidder made error in Bid Paving & Drainage Sub-Total amount shown of \$2,536,573.96. The correct Bid Total amount of \$2,536,582.96 is reflected in the total amounts shown above.
2. McMahon Contracting, L.P. – Bidder made error in Base Bid Total amount shown of \$3,444,377.23. The correct Base Bid Total amount of \$3,444,386.23 is reflected in the total amounts shown above.
3. RKM Utility Services, Inc. – Bidder made error in Base Bid Total amount shown on Page P-1 of \$3,657,541.00. The correct Base Bid Total amount of \$3,667,541.00 is reflected in the total amounts shown above.
4. Tiseo Paving Co. – Bidder made error in Bid Alternate Number 3, Bid Item A3.1, Total Price amount shown of \$40,991.00. The correct Total Price amount of \$40,911.00 is reflected in the total amounts shown above.

Based on the bid results, we recommend award of Bid Alternate Number 1 for channel clearing.

Bid Alternates 2, 3 and 4 were included to allow the opportunity to evaluate the balance of associated pavement life, cost-effectiveness, and construction duration of the three pavement section alternates. Based solely on evaluation of associated pavement life, Bid Alternate Number 4 is the preferred option. Based solely on evaluation of cost-effectiveness, Bid Alternate Number 2 is the preferred option. Based on solely on evaluation of construction duration, Bid Alternate Number 2 is the preferred option. Based on evaluation of all noted factors, the recommended pavement section option is Bid Alternate Number 2.

The apparent lowest responsible bid based solely on the total amount of the Base Bid, Bid Alternate Number 1, and Bid Alternate Number 2, is McMahan Contracting, Inc. for a total Final Completion maximum contract time of 570 calendar days (consecutive). The next apparent lowest responsible bidder based solely on the total amount of the Base Bid, Bid Alternate Number 1, and Bid Alternate Number 2, is RKM Utility Services, Inc. for a total Final Completion maximum contract time of 560 calendar days (consecutive).

References were evaluated for both bidders.

One of the past projects of similar scope and size shown within the list of completed projects that was included in the Bid Proposal provided by McMahan was reconstruction of Trinity Street, located within the City of Forney. During discussions with both the City of Forney staff and CRIADO staff with familiarity of the project while working with a previous employer, concerns were noted; including several instances of failure to maintain the project schedule, numerous field disputes, and the quality of the final workmanship. In addition, City staff did not seem inclined to recommend the use of McMahan Contracting on future projects as there was no indication they could expect a better experience or final product. Additional references for McMahan Contracting, Inc. were generally positive; however feedback from additional contact references emphasized the importance of inspection with respect to their work, scheduling concerns during the end stages of a project, some concerns related to City staff observing poor communication amongst McMahan construction crews, and some frustrations with the additional supervision by City staff that was required while working with some of McMahan's subs.

RKM Utility Services, Inc. received consistently positive feedback from all references checked.

Given the bid results, feedback from references, and the requirements set forth in the bidding on Page NB-2, Section 6, Page IB-2, Section 3, and Page IB-3, Section 6, we identify RKM Utility Services, Inc. as the lowest responsible bid and thus recommend a construction contract be awarded to RKM Utility Services, Inc. for the total amount bid; including the base bid, Bid Alternate Number 1 and Bid Alternate Number 2 of **\$3,754,980.00** with a total Final Completion maximum contract time of 560 calendar days (consecutive).

If you have any questions, please do not hesitate to contact us at (972) 392-9092.

Sincerely,



Kelly Moncrief, P.E.
Senior Project Manager

Exhibit C
 BID TABULATION
 CITY OF FORNEY
 REDBUD DRIVE STREET IMPROVEMENT PROJECT- BID#RFP 2018-002

REDBUD DRIVE STREET IMPROVEMENT PROJECT- BID#RFP 2018-002											
Item No.	Legacy Drive	Unit	Bid Quantity	Unit Price	Extended Amount	Unit Price	Extended Amount	Unit Price	Extended Amount	Unit Price	Extended Amount
PAVING AND DRAINAGE IMPROVEMENTS				McMAHON CONTRACTING L.P.		RKM Utility Services, Inc.		TISEO PAVING CO.		AXIS CONTRACTING, INC.	
1	Traffic Control	MO	18	\$1,967.86	\$35,421.48	\$3,000.00	\$54,000.00	\$6,800.00	\$122,400.00	\$3,110.00	\$55,980.00
2	Storm Water Pollution Prevention Plan	LS	1	\$812.00	\$812.00	\$10,000.00	\$10,000.00	\$9,900.00	\$9,900.00	\$1,825.00	\$1,825.00
3	Temporary Erosion Control Measures (SWPPP)	LS	1	\$11,754.00	\$11,754.00	\$10,000.00	\$10,000.00	\$14,800.00	\$14,800.00	\$23,215.00	\$23,215.00
4	Prepare Right-of-Way	STA	34	\$1,255.41	\$42,683.94	\$2,000.00	\$68,000.00	\$7,500.00	\$255,000.00	\$7,597.77	\$258,324.18
5	Unclassified Roadway Excavation	CY	2,083	\$23.04	\$47,992.32	\$18.00	\$37,494.00	\$16.00	\$33,328.00	\$15.84	\$32,994.72
6	Remove Existing Concrete Pavement (Roadway)	SY	9,605	\$15.71	\$150,894.55	\$14.00	\$134,470.00	\$5.65	\$54,268.25	\$5.61	\$53,884.05
7	Remove Existing Concrete Pavement (Sidewalk)	SY	2,108	\$7.27	\$15,325.16	\$8.00	\$16,864.00	\$3.60	\$7,588.80	\$3.52	\$7,420.16
8	Remove Existing Concrete Pavement (Driveway)	SY	2,235	\$4.48	\$10,012.80	\$10.00	\$22,350.00	\$4.30	\$9,610.50	\$4.29	\$9,588.15
9	Remove Existing Concrete Pilot Channel	SY	133	\$18.92	\$2,516.36	\$2.00	\$2,660.00	\$9.50	\$1,263.50	\$9.41	\$1,251.53
10	Remove Existing RCP	LF	120	\$13.25	\$1,590.00	\$24.00	\$2,880.00	\$39.00	\$4,680.00	\$38.26	\$4,591.20
11	Remove Existing Inlet	EA	2	\$693.14	\$1,386.28	\$400.00	\$800.00	\$440.00	\$880.00	\$1,006.65	\$2,013.30
12	Remove Existing Tree	EA	40	\$533.37	\$21,334.80	\$885.00	\$35,400.00	\$340.00	\$13,600.00	\$365.50	\$14,620.00
13	F/I 6" Reinforced Concrete Pavement (Roadway)	SY	9,713	\$56.50	\$548,784.50	\$59.00	\$573,067.00	\$56.70	\$550,727.10	\$72.00	\$699,336.00
14	F/I 6" Reinforced Concrete Pavement (Driveway)	SY	2,082	\$79.84	\$166,226.88	\$47.00	\$97,854.00	\$91.00	\$189,462.00	\$82.00	\$170,724.00
15	F/I 6" Concrete Mono Curb	LF	4,317	\$4.15	\$17,915.55	\$1.00	\$4,317.00	\$3.00	\$12,951.00	\$6.00	\$25,902.00
16	F/I 5" Reinforced Concrete Sidewalk	SF	18,595	\$5.66	\$105,247.70	\$5.00	\$92,975.00	\$7.50	\$139,462.50	\$6.75	\$125,516.25
17	Pedestrian Rail	LF	18	\$134.88	\$2,427.84	\$225.00	\$4,050.00	\$440.00	\$7,920.00	\$220.00	\$3,960.00
18	Remove, Temp Set, and Reset Mailbox	EA	68	\$167.58	\$11,395.44	\$175.00	\$11,900.00	\$350.00	\$23,800.00	\$180.00	\$12,240.00
19	Remove, Temp Set, and Reset Brick Mailbox	EA	4	\$1,450.00	\$5,800.00	\$1,000.00	\$4,000.00	\$1,500.00	\$6,000.00	\$1,500.00	\$6,000.00
20	F/I Barrier Free Ramp	EA	23	\$1,519.60	\$34,950.80	\$1,300.00	\$29,900.00	\$1,540.00	\$35,420.00	\$1,400.00	\$32,200.00
21	F/I Topsoil (4" Depth)	SY	3,598	\$3.08	\$11,081.84	\$5.00	\$17,990.00	\$5.50	\$19,789.00	\$5.45	\$19,609.10
22	Furnish, Spray, Water & Maintain Sod	SY	3,598	\$5.31	\$19,105.38	\$5.00	\$17,990.00	\$11.50	\$41,377.00	\$9.90	\$35,620.20
23	F/I Small Road Signs	EA	15	\$682.08	\$10,231.20	\$660.00	\$9,900.00	\$600.00	\$9,000.00	\$467.50	\$7,012.50
24	Pavement Markings	LS	1	\$1,392.00	\$1,392.00	\$2,500.00	\$2,500.00	\$2,700.00	\$2,700.00	\$2,200.00	\$2,200.00
25	18" (CL IV) RCP Storm Sewer	LF	1,019	\$83.43	\$85,015.17	\$105.00	\$106,995.00	\$64.00	\$65,216.00	\$131.16	\$133,652.04
26	21" (CL IV) RCP Storm Sewer	LF	679	\$99.19	\$67,350.01	\$118.00	\$80,122.00	\$82.00	\$55,678.00	\$143.18	\$97,219.22
27	27" (CL III) RCP Storm Sewer	LF	485	\$106.51	\$51,657.35	\$150.00	\$72,750.00	\$92.00	\$44,620.00	\$169.42	\$82,168.70
28	30" (CL IV) RCP Storm Sewer	LF	404	\$138.82	\$56,083.28	\$171.00	\$69,084.00	\$117.00	\$47,268.00	\$177.07	\$71,536.28
29	5' x 3' RCB	LF	319	\$617.79	\$197,075.01	\$454.00	\$144,826.00	\$295.00	\$94,105.00	\$354.13	\$112,967.47
30	8' x 3' RCB	LF	901	\$577.73	\$520,534.73	\$622.00	\$560,422.00	\$495.00	\$445,995.00	\$535.57	\$482,548.57
31	4' Grate Inlet	EA	1	\$3,712.00	\$3,712.00	\$3,600.00	\$3,600.00	\$5,500.00	\$5,500.00	\$6,036.64	\$6,036.64
32	6' Curb Inlet	EA	24	\$3,654.00	\$87,696.00	\$2,500.00	\$60,000.00	\$4,200.00	\$100,800.00	\$4,168.70	\$100,048.80
33	10' Curb Inlet	EA	9	\$4,292.00	\$38,628.00	\$3,400.00	\$30,600.00	\$4,800.00	\$43,200.00	\$5,821.32	\$52,391.88
34	15' Curb Inlet	EA	2	\$6,148.00	\$12,296.00	\$4,200.00	\$8,400.00	\$6,900.00	\$13,800.00	\$7,258.61	\$14,517.22
35	15' Curb Inlet (Ty PCU)	EA	2	\$7,540.00	\$15,080.00	\$4,200.00	\$8,400.00	\$7,500.00	\$15,000.00	\$7,258.61	\$14,517.22
36	4' x 4' Junction Box	EA	1	\$4,408.00	\$4,408.00	\$3,500.00	\$3,500.00	\$6,200.00	\$6,200.00	\$6,108.78	\$6,108.78
37	6' x 4' Junction Box	EA	1	\$5,336.00	\$5,336.00	\$6,000.00	\$6,000.00	\$6,400.00	\$6,400.00	\$6,971.15	\$6,971.15
38	8' x 3' Junction Box	EA	1	\$6,264.00	\$6,264.00	\$8,600.00	\$8,600.00	\$7,700.00	\$7,700.00	\$7,976.71	\$7,976.71
39	F/I Type FW-0 Modified Headwall	EA	1	\$16,510.03	\$16,510.03	\$4,000.00	\$4,000.00	\$29,000.00	\$29,000.00	\$9,845.74	\$9,845.74
40	F/I Concrete Wall	LF	360	\$75.08	\$27,028.80	\$30.00	\$10,800.00	\$120.00	\$43,200.00	\$105.00	\$37,800.00
41	F/I 6" Concrete Channel	SY	209	\$113.23	\$23,665.07	\$80.00	\$16,720.00	\$86.00	\$17,974.00	\$78.00	\$16,302.00
42	Wood Privacy Fence Repair for Storm Drain Installation	LF	125	\$34.55	\$4,318.75	\$25.00	\$3,125.00	\$150.00	\$18,750.00	\$69.95	\$8,743.75
43	Trench Safety Protection	LF	3,807	\$1.11	\$4,225.77	\$1.00	\$3,807.00	\$2.50	\$9,517.50	\$3.28	\$12,486.96
44	Channel Debris Removal	STA	12	\$2,699.53	\$32,394.36	\$400.00	\$4,800.00	\$2,000.00	\$24,000.00	\$940.50	\$11,286.00
45	Construction Access Plan	LS	1	\$1,021.81	\$1,021.81	\$6,500.00	\$6,500.00	\$15,000.00	\$15,000.00	\$12,000.00	\$12,000.00
					PAVING & DRAINAGE SUB-TOTAL		\$2,536,582.96		PAVING & DRAINAGE SUB-TOTAL		\$2,474,412.00
									PAVING & DRAINAGE SUB-TOTAL		\$2,674,851.15
										PAVING & DRAINAGE SUB-TOTAL	\$2,903,152.47
WATER IMPROVEMENTS											
46	Cutting and Plugging Existing Water Main	EA	6	\$836.01	\$5,016.06	\$1,000.00	\$6,000.00	\$345.00	\$2,070.00	\$1,459.16	\$8,754.96
47	Connecting to Existing Water Main	EA	6	\$1,588.51	\$9,531.06	\$1,500.00	\$9,000.00	\$1,000.00	\$6,000.00	\$1,197.93	\$7,187.58
48	F/I Temporary Water Pipe	LS	1	\$12,248.89	\$12,248.89	\$15,000.00	\$15,000.00	\$5,200.00	\$5,200.00	\$20,368.06	\$20,368.06
49	F/I 6-Inch PVC C900 (DR 18) Water Pipe (Includes Temporary Pavement)	LF	188	\$56.94	\$10,704.72	\$95.00	\$17,860.00	\$106.00	\$19,928.00	\$86.35	\$16,233.80
50	F/I 8-Inch PVC C900 (DR 18) Water Pipe (Includes Temporary Pavement)	LF	3,133	\$69.68	\$218,307.44	\$96.00	\$300,768.00	\$106.00	\$332,098.00	\$90.72	\$284,225.76
51	Removing Existing Fire Hydrant	EA	5	\$647.23	\$3,236.15	\$600.00	\$3,000.00	\$390.00	\$1,950.00	\$838.33	\$4,191.65
52	Delivering Fire Hydrant	EA	5	\$161.81	\$809.05	\$100.00	\$500.00	\$83.00	\$415.00	\$335.55	\$1,677.75
53	F/I Fire Hydrant	EA	8	\$2,991.87	\$23,934.96	\$3,500.00	\$28,000.00	\$3,700.00	\$29,600.00	\$3,578.48	\$28,627.84
54	F/I 1-Inch Standard Water Service w/ Meter Box (Short)	EA	35	\$826.98	\$28,944.30	\$1,500.00	\$52,500.00	\$965.00	\$33,775.00	\$948.72	\$33,205.20

BID TABULATION
CITY OF FORNEY
REDBUD DRIVE STREET IMPROVEMENT PROJECT- BID#RFP 2018-002


Item No.	Legacy Drive	Unit	Bid Quantity	Unit Price	Extended Amount	Unit Price	Extended Amount	Unit Price	Extended Amount	Unit Price	Extended Amount
55	F/I 1-Inch Standard Water Service w/ Meter Box (Long)	EA	38	\$1,013.75	\$38,522.50	\$1,700.00	\$64,600.00	\$1,150.00	\$43,700.00	\$1,029.61	\$39,125.18
56	F/I Ductile Iron Fittings	TN	1	\$5,220.00	\$5,220.00	\$2,500.00	\$2,500.00	\$30,000.00	\$30,000.00	\$19,357.03	\$19,357.03
57	F/I 6-Inch Gate Valve	EA	8	\$1,390.06	\$11,120.48	\$1,000.00	\$8,000.00	\$1,400.00	\$11,200.00	\$1,518.18	\$12,145.44
58	F/I 8-Inch Gate Valve	EA	14	\$1,580.43	\$22,126.02	\$1,350.00	\$18,900.00	\$1,800.00	\$25,200.00	\$1,937.89	\$27,130.46
59	Removing, Salvaging and Delivering 6" Valve	EA	5	\$647.23	\$3,236.15	\$300.00	\$1,500.00	\$550.00	\$2,750.00	\$1,006.65	\$5,033.25
60	Providing and Implementing Trench Safety Program	LF	3,321	\$1.22	\$4,051.62	\$1.00	\$3,321.00	\$1.50	\$4,981.50	\$1.09	\$3,619.89
61	F/I Class "B" Concrete	CY	20	\$168.20	\$3,364.00	\$150.00	\$3,000.00	\$150.00	\$3,000.00	\$182.53	\$3,650.60
62	Providing Sand Backfill (Contingent)	CY	100	\$20.71	\$2,071.00	\$25.00	\$2,500.00	\$25.00	\$2,500.00	\$57.93	\$5,793.00
63	Providing and Installing Rock Foundation (Contingent)	CY	15	\$54.99	\$824.85	\$50.00	\$750.00	\$43.00	\$645.00	\$64.49	\$967.35
					WATER SUB-TOTAL \$403,269.25		WATER SUB-TOTAL \$537,699.00		WATER SUB-TOTAL \$555,012.50		WATER SUB-TOTAL \$521,294.80
WASTEWATER IMPROVEMENTS											
64	Connecting to Existing Sanitary Sewer	EA	4	\$1,167.51	\$4,670.04	\$1,000.00	\$4,000.00	\$2,000.00	\$8,000.00	\$772.75	\$3,091.00
65	F/I 8-Inch PVC Wastewater Main SDR 26 Class 160 (Includes Temporary Pavement)	LF	3,022	\$83.75	\$253,092.50	\$125.00	\$377,750.00	\$145.00	\$438,190.00	\$87.44	\$264,243.68
66	Rehabilitation of Existing 8" WW Main by CIPP	LF	181	\$110.53	\$20,005.93	\$95.00	\$17,195.00	\$380.00	\$68,780.00	\$215.32	\$38,972.92
67	Furnishing and Installing 6-inch PVC SDR 26 Sanitary Sewer Service	EA	75	\$1,161.09	\$87,081.75	\$1,750.00	\$131,250.00	\$1,100.00	\$82,500.00	\$1,194.65	\$89,598.75
68	Removing Existing Wastewater Manhole	EA	1	\$976.34	\$976.34	\$600.00	\$600.00	\$605.00	\$605.00	\$1,545.50	\$1,545.50
69	F/I 48 Inch Wastewater Manhole	EA	16	\$6,675.57	\$106,809.12	\$6,500.00	\$104,000.00	\$8,000.00	\$128,000.00	\$6,118.61	\$97,897.76
70	Providing Vacuum Test on Wastewater Manholes	EA	16	\$349.68	\$5,594.88	\$150.00	\$2,400.00	\$385.00	\$6,160.00	\$301.67	\$4,826.72
71	Providing and Implementing Trench Safety Program	LF	3,022	\$1.34	\$4,049.48	\$1.00	\$3,022.00	\$2.50	\$7,555.00	\$3.28	\$9,912.16
72	Providing Sand Backfill (Contingent)	CY	95	\$20.71	\$1,967.45	\$25.00	\$2,375.00	\$22.00	\$2,090.00	\$57.93	\$5,503.35
73	Providing and Installing Rock Foundation (Contingent)	CY	15	\$54.99	\$824.85	\$50.00	\$750.00	\$50.00	\$750.00	\$64.49	\$967.35
74	Preconstruction & Postconstruction TV Inspection Sanitary Sewer	LF	6,044	\$3.22	\$19,461.68	\$2.00	\$12,088.00	\$4.00	\$24,176.00	\$5.47	\$33,060.68
					WASTEWATER SUB-TOTAL \$504,534.02		WASTEWATER SUB-TOTAL \$655,430.00		WASTEWATER SUB-TOTAL \$766,806.00		WASTEWATER SUB-TOTAL \$549,619.87
					BASE - BID TOTAL \$3,444,386.23		BASE - BID TOTAL \$3,667,541.00		BASE - BID TOTAL \$3,996,669.65		BASE - BID TOTAL \$3,974,067.14
BID ALTERNATES											
Bid Alternate Number 1											
A1	Channel Debris Removal	STA	4	\$2,583.65	\$10,334.60	\$500.00	\$2,000.00	\$2,000.00	\$8,000.00	\$1,215.50	\$4,862.00
					BID ALT 1 SUB-TOTAL \$10,334.60		BID ALT 1 SUB-TOTAL \$2,000.00		BID ALT 1 SUB-TOTAL \$8,000.00		BID ALT 1 SUB-TOTAL \$4,862.00
Bid Alternate Number 2											
A2.1	6" Lime Treated Subgrade	SY	10,490	\$3.66	\$38,393.40	\$3.10	\$32,519.00	\$3.90	\$40,911.00	\$4.29	\$45,002.10
A2.2	Lime Stabilization (10%) (56 lbs/ sq yd)	TON	294	\$171.68	\$50,473.92	\$180.00	\$52,920.00	\$294.00	\$86,436.00	\$175.67	\$51,646.98
					BID ALT 2 SUB-TOTAL \$88,867.32		BID ALT 2 SUB-TOTAL \$85,439.00		BID ALT 2 SUB-TOTAL \$127,347.00		BID ALT 2 SUB-TOTAL \$96,649.08
Bid Alternate Number 3											
A3.1	6" Cement Treated Subgrade	SY	10,490	\$3.14	\$32,938.60	\$5.20	\$54,548.00	\$3.90	\$40,911.00	\$4.46	\$46,785.40
A3.2	Cement Stabilization (12%) (68 lbs/ sq yd)	TON	357	\$228.35	\$81,520.95	\$225.00	\$80,325.00	\$235.00	\$83,895.00	\$250.47	\$89,417.79
					BID ALT 3 SUB-TOTAL \$114,459.55		BID ALT 3 SUB-TOTAL \$134,873.00		BID ALT 3 SUB-TOTAL \$124,806.00		BID ALT 3 SUB-TOTAL \$136,203.19
Bid Alternate Number 4											
A4.1	Hot Mix Asphalt (3" Thickness) (Ty B)	SY	10,490	\$18.55	\$194,589.50	\$18.00	\$188,820.00	\$26.00	\$272,740.00	\$20.79	\$218,087.10
A4.2	Flexible Base (6" Thickness) (Grade 1, Type A or Type D)	SY	10,490	\$11.21	\$117,592.90	\$10.00	\$104,900.00	\$8.00	\$83,920.00	\$7.59	\$79,619.10
A4.3	Unclassified Roadway Excavation (Additional 3" Depth)	CY	830	\$68.61	\$56,946.30	\$10.00	\$8,300.00	\$16.00	\$13,280.00	\$15.84	\$13,147.20
					BID ALT 4 SUB-TOTAL \$369,128.70		BID ALT 4 SUB-TOTAL \$302,020.00		BID ALT 4 SUB-TOTAL \$369,940.00		BID ALT 4 SUB-TOTAL \$310,853.40
											

Exhibit D

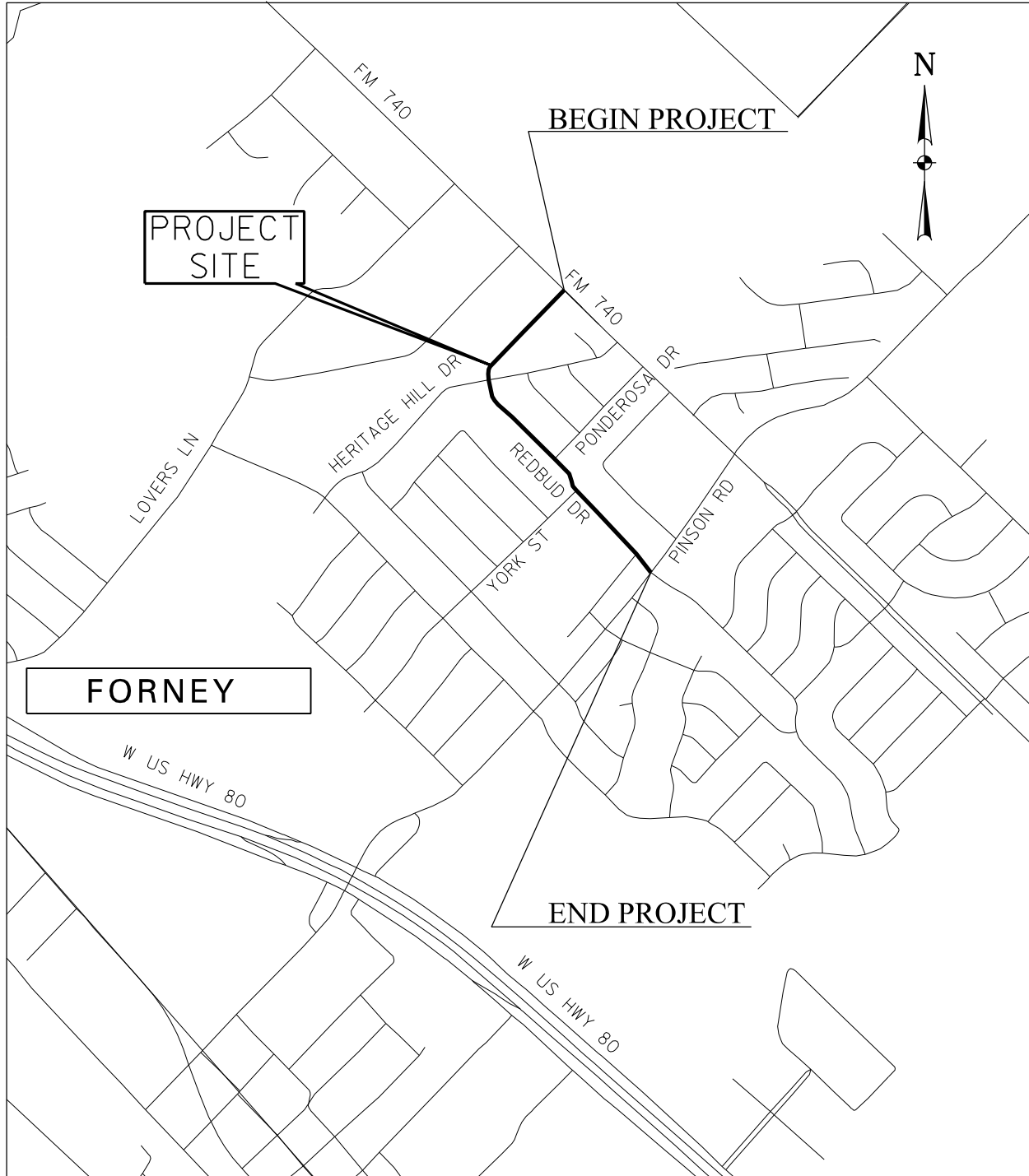
ENGINEER'S STATEMENT OF PROBABLE CONSTRUCTION COST
THE CITY OF FORNEY
REDBUD DRIVE IMPROVEMENTS 95%

7/5/2018

CRIADO & ASSOCIATES

REDBUD DRIVE ROADWAY RECONSTRUCTION (CIP 153 - RFP 2018-002)					
	<i>Paving and Drainage Improvements</i>	Quantity - Total	Unit	Unit Price - July 2018	Sub-Total
					\$2,751,245.60
	<i>Water Improvements</i>	Quantity	Unit	Unit Price	Extended Amount
					\$424,022.91
	<i>Wastewater Improvements</i>	Quantity	Unit		Extended Amount
					\$483,863.88
				Sub-Total	\$3,659,132.39
	Contingency (5% Total - Includes 1% for Construction Materials Testing)				\$182,957.00
	Total - Paving, Drainage & Utility Improvements				\$3,842,089.39
				Atmos Gas Line Relocation	\$518,405.74
				Rounded Total	\$4,360,500.00
	<i>Alternate Bid</i>				
A1	Channel Debris Removal	4	STA	\$6,000	\$24,000
	This is a preliminary estimate (95% plans) - not for construction. EEOPCC was prepared under the direct supervision of Kelly C. Moncrief, P.E. (7/5/2018) Texas Registration No. 96712 CRIADO & Associates, Inc. FIRM No. F-4373				

REDBUD DRIVE ROADWAY RECONSTRUCTION CIP 153 (RFP 2018-002)



LOCATION MAP - NOT TO SCALE

CITY OF FORNEY, TEXAS

CITY HALL~ 101 EAST MAIN STREET, FORNEY, TEXAS 75028