



February 13, 2020

Mr. Anthony Talluto
Project Manager
City of League City
300 W. Walker St.
League City, Texas 77573

Re: **Letter of Recommendation for 2019 Water Line Improvements Project (WT 1904)**
Phase I – Glen Cove
Bid No. 20-CIP-009
ARKK Job No. 19-019

Dear Mr. Talluto:

On February 11, 2020, the City of League City received thirteen (13) bids for the above referenced project. The project includes the replacement of existing water lines by trenchless construction located in the Glen Cove Subdivision. Attached is the bid tabulation prepared by ARKK Engineers, LLC. Our review of the bid tabulation confirms that **McKinney Construction** is the low bidder after considering the number of calendar days in the A+B bidding formula.

The bids were checked for mathematical errors and/or bid irregularities. See attached. The bid from was deemed non-responsive since they did not provide a calendar days bid and is not included as part of the bid tab. McKinney Construction has performed this type of work successfully for other municipalities in the area. Please note that our evaluation of the bids did not include an evaluation of the other bid documents (insurance, references, financial statements, bid bonds, etc.).

McKinney Construction appears to be a responsible firm that is capable of performing the specified work in a satisfactory manner. For these reasons, we recommend that the **City of League City award the 2019 Water Line Improvements Project: Phase I – Glen Cove (WT 1904) to McKinney Construction for a total of \$1,208,835.00.**

If you have any questions, please contact me.

Sincerely,

ARKK ENGINEERS, LLC



Madhu Kilambi, P.E.

Senior Project Manager/Principal

Cc: Mr. Jody Hooks – City of League City

2019 Water Line Improvements Project - Phase I - Glen Cove (WT 1904)
Bid No. 20-CIP-009

ITEM NO.	ITEM DESCRIPTION	UNIT	QUAN.	LOW BIDDER												
				Triple B Services, LLP		McKinney Construction		Aranda Industries		Scohil Construction		D.L. Elliott Enterprises		G&A Boring		
WATER LINE ITEMS:																
1	6" PVC C-900, Class 150 waterline by augered or open cut construction, all depths:	L.F.	240	\$ 40.50	\$ 9,720.00	\$ 28.00	\$ 6,720.00	\$ 37.00	\$ 8,880.00	\$ 42.00	\$ 10,080.00	\$ 25.00	\$ 6,000.00	\$ 30.00	\$ 7,200.00	
2	6" CERTA-LOK waterline by augered or open cut construction, all depths:	L.F.	60	\$ 76.50	\$ 4,590.00	\$ 48.00	\$ 2,880.00	\$ 40.00	\$ 2,400.00	\$ 52.00	\$ 3,120.00	\$ 60.00	\$ 3,600.00	\$ 36.00	\$ 2,160.00	
3	8" PVC C-900, Class 150 waterline by augered or open cut construction, all depths:	L.F.	16200	\$ 49.15	\$ 796,230.00	\$ 38.00	\$ 615,600.00	\$ 38.00	\$ 615,600.00	\$ 37.00	\$ 599,400.00	\$ 35.00	\$ 567,000.00	\$ 38.00	\$ 615,600.00	
4	8" CERTA-LOK waterline by augered or open cut construction, all depths:	L.F.	1800	\$ 48.00	\$ 86,400.00	\$ 55.00	\$ 99,000.00	\$ 52.00	\$ 93,600.00	\$ 53.00	\$ 95,400.00	\$ 62.00	\$ 111,600.00	\$ 39.00	\$ 70,200.00	
5	Bored 14" thru 16" Steel Casing w/ 8" PVC C-900, Class 150 waterline, for Sanitary Sewer and Culvert crossings, all depths:	L.F.	490	\$ 126.50	\$ 61,985.00	\$ 120.00	\$ 58,800.00	\$ 149.00	\$ 73,010.00	\$ 90.00	\$ 44,100.00	\$ 125.00	\$ 61,250.00	\$ 100.00	\$ 49,000.00	
6	Bored 14" thru 16" Steel Casing w/ 6" CERTA-LOK waterline, for Sanitary Sewer and Culvert crossings, all depths:	L.F.	40	\$ 166.50	\$ 6,660.00	\$ 150.00	\$ 6,000.00	\$ 147.00	\$ 5,880.00	\$ 84.00	\$ 3,360.00	\$ 120.00	\$ 4,800.00	\$ 105.00	\$ 4,200.00	
7	Bored 14" thru 16" Steel Casing w/ 8" CERTA-LOK waterline, for Sanitary Sewer and Culvert crossings, all depths:	L.F.	70	\$ 137.50	\$ 9,625.00	\$ 150.00	\$ 10,500.00	\$ 161.00	\$ 11,270.00	\$ 114.00	\$ 7,980.00	\$ 125.00	\$ 8,750.00	\$ 100.00	\$ 7,000.00	
8	6" resilient seated gate valve with box:	EA.	3	\$ 775.00	\$ 2,325.00	\$ 350.00	\$ 1,050.00	\$ 1,025.00	\$ 3,075.00	\$ 950.00	\$ 2,850.00	\$ 700.00	\$ 2,100.00	\$ 1,000.00	\$ 3,000.00	
9	8" resilient seated gate valve with box:	EA.	52	\$ 1,165.00	\$ 60,580.00	\$ 450.00	\$ 23,400.00	\$ 1,457.00	\$ 75,764.00	\$ 1,050.00	\$ 54,600.00	\$ 1,250.00	\$ 65,000.00	\$ 1,400.00	\$ 72,800.00	
10	8" x 8" tapping sleeve and valve with box:	EA.	1	\$ 4,865.00	\$ 4,865.00	\$ 3,950.00	\$ 3,950.00	\$ 5,408.00	\$ 5,408.00	\$ 3,450.00	\$ 3,450.00	\$ 4,500.00	\$ 4,500.00	\$ 4,500.00	\$ 4,500.00	
11	16" x 8" tapping sleeve and valve with box:	EA.	1	\$ 4,375.00	\$ 4,375.00	\$ 7,800.00	\$ 7,800.00	\$ 4,768.00	\$ 4,768.00	\$ 7,100.00	\$ 7,100.00	\$ 8,000.00	\$ 8,000.00	\$ 7,000.00	\$ 7,000.00	
12	Fire hydrant assembly installed on new water main, including gate valve and lead pipe:	EA.	41	\$ 4,270.00	\$ 175,070.00	\$ 3,850.00	\$ 157,850.00	\$ 4,884.00	\$ 200,244.00	\$ 3,250.00	\$ 133,250.00	\$ 4,750.00	\$ 194,750.00	\$ 3,800.00	\$ 155,800.00	
13	Remove and dispose of existing fire hydrants and blow off valves:	EA.	12	\$ 360.00	\$ 4,320.00	\$ 150.00	\$ 1,800.00	\$ 276.00	\$ 3,312.00	\$ 150.00	\$ 1,800.00	\$ 100.00	\$ 1,200.00	\$ 400.00	\$ 4,800.00	
14	Abandon existing valve, includes removal and dispose of box, lid, and backfill:	EA.	35	\$ 325.00	\$ 11,375.00	\$ 75.00	\$ 2,625.00	\$ 202.00	\$ 7,070.00	\$ 150.00	\$ 5,250.00	\$ 50.00	\$ 1,750.00	\$ 400.00	\$ 14,000.00	
15	Install short side service, includes min. 1" polyethylene tubing:	EA.	110	\$ 653.00	\$ 71,830.00	\$ 275.00	\$ 30,250.00	\$ 508.00	\$ 55,880.00	\$ 375.00	\$ 41,250.00	\$ 400.00	\$ 44,000.00	\$ 800.00	\$ 88,000.00	
16	Install long side service, includes min. 1" polyethylene tubing:	EA.	140	\$ 1,335.00	\$ 186,900.00	\$ 310.00	\$ 43,400.00	\$ 656.00	\$ 91,840.00	\$ 400.00	\$ 56,000.00	\$ 475.00	\$ 66,500.00	\$ 1,000.00	\$ 140,000.00	
17	2" Service Tap:	EA.	1	\$ 925.00	\$ 1,000.00	\$ 1,075.00	\$ 1,000.00	\$ 1,075.00	\$ 1,075.00	\$ 1,250.00	\$ 1,250.00	\$ 2,000.00	\$ 2,000.00	\$ 1,500.00	\$ 1,500.00	
18	6" Wet Connection:	E.A.	1	\$ 295.00	\$ 295.00	\$ 800.00	\$ 800.00	\$ 525.00	\$ 525.00	\$ 550.00	\$ 550.00	\$ 1,500.00	\$ 1,500.00	\$ 1,000.00	\$ 1,000.00	
19	8" Wet Connection:	E.A.	2	\$ 365.00	\$ 730.00	\$ 1,000.00	\$ 2,000.00	\$ 875.00	\$ 1,750.00	\$ 850.00	\$ 1,700.00	\$ 2,000.00	\$ 4,000.00	\$ 1,400.00	\$ 2,800.00	
20	16" Wet Connection:	E.A.	1	\$ 1,355.00	\$ 1,355.00	\$ 1,800.00	\$ 1,800.00	\$ 1,941.00	\$ 1,941.00	\$ 1,250.00	\$ 1,250.00	\$ 2,500.00	\$ 2,500.00	\$ 2,500.00	\$ 2,500.00	
21	6" cut, plug and abandon existing water line:	EA.	3	\$ 225.00	\$ 675.00	\$ 250.00	\$ 750.00	\$ 314.00	\$ 942.00	\$ 350.00	\$ 1,050.00	\$ 1,250.00	\$ 3,750.00	\$ 500.00	\$ 1,500.00	
22	8" cut, plug and abandon existing water line:	EA.	2	\$ 255.00	\$ 510.00	\$ 450.00	\$ 900.00	\$ 314.00	\$ 628.00	\$ 550.00	\$ 1,100.00	\$ 1,500.00	\$ 3,000.00	\$ 600.00	\$ 1,200.00	
23	Inlet Protection Barrier (All-Types):	EA.	74	\$ 25.50	\$ 1,887.00	\$ 20.00	\$ 1,480.00	\$ 10.00	\$ 740.00	\$ 50.00	\$ 3,700.00	\$ 50.00	\$ 3,700.00	\$ 20.00	\$ 1,480.00	
24	Reinforced Filter Fabric Barrier:	LF	2500	\$ 1.40	\$ 3,500.00	\$ 0.10	\$ 250.00	\$ 1.00	\$ 2,500.00	\$ 1.00	\$ 2,500.00	\$ 0.01	\$ 25.00	\$ 2.00	\$ 5,000.00	
25	Trench Safety System for all water mains, greater than 5-feet deep:	L.F.	3000	\$ 0.10	\$ 300.00	\$ 0.01	\$ 30.00	\$ 0.01	\$ 30.00	\$ 0.10	\$ 300.00	\$ 0.01	\$ 30.00	\$ 1.00	\$ 3,000.00	
26	Remove and Replace existing asphalt pavement (all thicknesses):	SY	400	\$ 45.00	\$ 18,000.00	\$ 65.00	\$ 26,000.00	\$ 60.00	\$ 24,000.00	\$ 38.00	\$ 15,200.00	\$ 45.00	\$ 18,000.00	\$ 55.00	\$ 22,000.00	
27	Project Sign, Per Detail:	EA.	2	\$ 730.00	\$ 1,460.00	\$ 700.00	\$ 1,400.00	\$ 1,500.00	\$ 3,000.00	\$ 700.00	\$ 1,400.00	\$ 1,000.00	\$ 2,000.00	\$ 1,000.00	\$ 2,000.00	
28	Tree Protection:	LS	1	\$ 13,000.00	\$ 13,000.00	\$ 2,000.00	\$ 2,000.00	\$ 2,500.00	\$ 2,500.00	\$ 1,000.00	\$ 1,000.00	\$ 3,500.00	\$ 3,500.00	\$ 1,500.00	\$ 1,500.00	
29	Miscellaneous Allowance as approved by the City:	L.S.	1	\$ 50,000.00	\$ 50,000.00	\$ 50,000.00	\$ 50,000.00	\$ 50,000.00	\$ 50,000.00	\$ 50,000.00	\$ 50,000.00	\$ 50,000.00	\$ 50,000.00	\$ 50,000.00	\$ 50,000.00	
TOTAL WATER LINE BID ITEMS:					\$ 1,589,487.00		\$ 1,160,035.00		\$ 1,347,632.00		\$ 1,149,990.00		\$ 1,244,805.00		\$ 1,340,740.00	
SUPPLEMENTAL ITEMS																
30	Extra concrete, includes reinforcement:	C.Y.	50	\$ 60.00	\$ 3,000.00	\$ 60.00	\$ 3,000.00	\$ 60.00	\$ 3,000.00	\$ 60.00	\$ 3,000.00	\$ 60.00	\$ 3,000.00	\$ 60.00	\$ 3,000.00	
31	Installation of new meter box, per detail, at locations approved by the City:	EA.	25	\$ 100.00	\$ 2,500.00	\$ 100.00	\$ 2,500.00	\$ 518.00	\$ 12,950.00	\$ 100.00	\$ 2,500.00	\$ 100.00	\$ 2,500.00	\$ 100.00	\$ 2,500.00	
32	6-inch Inserta Valve on existing waterline:	EA.	1	\$ 4,000.00	\$ 4,000.00	\$ 4,000.00	\$ 4,000.00	\$ 8,736.00	\$ 8,736.00	\$ 6,425.00	\$ 6,425.00	\$ 4,000.00	\$ 4,000.00	\$ 9,500.00	\$ 9,500.00	
33	8-inch Inserta Valve on existing waterline:	EA.	1	\$ 4,500.00	\$ 4,500.00	\$ 4,500.00	\$ 4,500.00	\$ 10,253.00	\$ 10,253.00	\$ 7,620.00	\$ 7,620.00	\$ 4,500.00	\$ 4,500.00	\$ 10,000.00	\$ 10,000.00	
34	4-inch Wet Connection:	EA.	1	\$ 500.00	\$ 500.00	\$ 500.00	\$ 500.00	\$ 500.00	\$ 500.00	\$ 500.00	\$ 500.00	\$ 500.00	\$ 500.00	\$ 500.00	\$ 500.00	
35	4-inch Cut, Plug, and Abandon:	EA.	1	\$ 400.00	\$ 400.00	\$ 400.00	\$ 400.00	\$ 400.00	\$ 400.00	\$ 400.00	\$ 400.00	\$ 400.00	\$ 400.00	\$ 400.00	\$ 400.00	
36	Wet condition bedding, all sizes, all depths:	L.F.	100	\$ 15.00	\$ 1,500.00	\$ 5.00	\$ 500.00	\$ 5.00	\$ 500.00	\$ 5.00	\$ 500.00	\$ 5.00	\$ 500.00	\$ 5.00	\$ 500.00	
37	Installation and removal of piezometer:	EA.	10	\$ 80.00	\$ 800.00	\$ 80.00	\$ 800.00	\$ 80.00	\$ 800.00	\$ 80.00	\$ 800.00	\$ 80.00	\$ 800.00	\$ 80.00	\$ 800.00	
38	Extra cement stabilized sand:	C.Y.	200	\$ 15.00	\$ 3,000.00	\$ 15.00	\$ 3,000.00	\$ 15.00	\$ 3,000.00	\$ 15.00	\$ 3,000.00	\$ 15.00	\$ 3,000.00	\$ 15.00	\$ 3,000.00	
39	Extra 1" polyethylene service tubing:	L.F.	400	\$ 4.00	\$ 1,600.00	\$ 4.00	\$ 1,600.00	\$ 4.00	\$ 1,600.00	\$ 4.00	\$ 1,600.00	\$ 4.00	\$ 1,600.00	\$ 4.00	\$ 1,600.00	
40	Solid sheet shoring ordered left in place for all sizes:	L.F.	100	\$ 25.00	\$ 2,500.00	\$ 25.00	\$ 2,500.00	\$ 25.00	\$ 2,500.00	\$ 25.00	\$ 2,500.00	\$ 25.00	\$ 2,500.00	\$ 25.00	\$ 2,500.00	
41	Well pointing system, all depths:	L.F.	100	\$ 40.00	\$ 4,000.00	\$ 40.00	\$ 4,000.00	\$ 40.00	\$ 4,000.00	\$ 40.00	\$ 4,000.00	\$ 40.00	\$ 4,000.00	\$ 50.00	\$ 5,000.00	
42	Brace, support, and protect utility structures:	EA.	3	\$ 1,000.00	\$ 3,000.00	\$ 1,000.00	\$ 3,000.00	\$ 1,000.00	\$ 3,000.00	\$ 1,000.00	\$ 3,000.00	\$ 1,000.00	\$ 3,000.00	\$ 1,000.00	\$ 3,000.00	
43	Removal and replacement of additional existing asphalt driveway:	S.Y.	100	\$ 35.00	\$ 3,500.00	\$ 35.00	\$ 3,500.00	\$ 60.00	\$ 6,000.00	\$ 35.00	\$ 3,500.00	\$ 35.00	\$ 3,500.00	\$ 35.00	\$ 3,500.00	
44	Removal and replacement of existing concrete driveway:	S.Y.	200	\$ 70.00	\$ 14,000.00	\$ 70.00	\$ 14,000.00	\$ 70.00	\$ 14,000.00	\$ 70.00	\$ 14,000.00	\$ 70.00	\$ 14,000.00	\$ 70.00	\$ 14,000.00	
45	Additional removal and replacement of existing curb:	L.F.	100	\$ 10.00	\$ 1,000.00	\$ 10.00	\$ 1,000.00	\$ 10.00	\$ 1,000.00	\$ 10.00	\$ 1,000.00	\$ 10.00	\$ 1,000.00	\$ 10.00	\$ 1,000.00	
TOTAL SUPPLEMENTAL BID ITEMS:					\$ 49,800.00		\$ 48,800.00		\$ 72,239.00		\$ 54,345.00		\$ 48,800.00		\$ 60,800.00	
TOTAL BASE BID ITEMS:					\$ 1,639,287.00		\$ 1,208,835.00		\$ 1,419,871.00		\$ 1,204,335.00		\$ 1,293,605.00		\$ 1,401,540.00	
TOTAL CALENDAR DAYS BID:					120		190		195		210		230		240	
VALUE OF CALENDAR DAY:							\$ 500.00		\$ 500.00		\$ 500.00		\$ 500.00		\$ 500.00	
DIFFERENCE IN DAYS COMPARED TO LOWEST DAYS BID (150):							70		75		90		110		120	
A+B TO BE ADDED TO BASE BID:					\$ -		\$ 35,000.00		\$ 37,500.00		\$ 45,000.00		\$ 55,000.00		\$ 60,000.00	
GRAND TOTAL:					\$ 1,639,287.00		\$ 1,243,835.00		\$ 1,457,371.00		\$ 1,249,335.00		\$ 1,348,605.00		\$ 1,461,540.00	
MATHEMATICAL ERROR CORRECTED BY ENGINEER																

2019 Water Line Improvements Project - Phase I - Glen Cove (WT 1904)
Bid No. 20-CIP-009

ITEM NO.	ITEM DESCRIPTION	UNIT	QUAN.	Lopez Utilities Contractor		Alcott DBA TCH		R&A Road Boring, LLC.		Resicom, Inc.		Barclays Utility Services		Android Construction Services		
WATER LINE ITEMS:																
1	6" PVC C-900, Class 150 waterline by augered or open cut construction, all depths:	L.F.	240	\$ 48.00	\$ 11,520.00	\$ 50.00	\$ 12,000.00	\$ 38.00	\$ 9,120.00	\$ 58.00	\$ 13,920.00	\$ 42.00	\$ 10,080.00	\$ 35.00	\$ 8,400.00	
2	6" CERTA-LOK waterline by augered or open cut construction, all depths:	L.F.	60	\$ 42.00	\$ 2,520.00	\$ 78.00	\$ 4,680.00	\$ 48.00	\$ 2,880.00	\$ 32.00	\$ 1,920.00	\$ 42.00	\$ 2,520.00	\$ 36.00	\$ 2,160.00	
3	8" PVC C-900, Class 150 waterline by augered or open cut construction, all depths:	L.F.	16200	\$ 36.00	\$ 583,200.00	\$ 63.56	\$ 1,029,672.00	\$ 39.00	\$ 631,800.00	\$ 35.00	\$ 567,000.00	\$ 42.00	\$ 680,400.00	\$ 38.00	\$ 615,600.00	
4	8" CERTA-LOK waterline by augered or open cut construction, all depths:	L.F.	1800	\$ 46.00	\$ 82,800.00	\$ 64.25	\$ 115,650.00	\$ 49.00	\$ 88,200.00	\$ 42.00	\$ 75,600.00	\$ 42.00	\$ 75,600.00	\$ 49.00	\$ 88,200.00	
5	Bored 14" thru 16" Steel Casing w/ 8" PVC C-900, Class 150 waterline, for Sanitary Sewer and Culvert crossings, all depths:	L.F.	490	\$ 205.00	\$ 100,450.00	\$ 449.00	\$ 220,010.00	\$ 130.00	\$ 63,700.00	\$ 180.00	\$ 88,200.00	\$ 100.00	\$ 49,000.00	\$ 155.00	\$ 75,950.00	
6	Bored 14" thru 16" Steel Casing w/ 6" CERTA-LOK waterline, for Sanitary Sewer and Culvert crossings, all depths:	L.F.	40	\$ 240.00	\$ 9,600.00	\$ 338.00	\$ 13,520.00	\$ 129.00	\$ 5,160.00	\$ 280.00	\$ 11,200.00	\$ 150.00	\$ 6,000.00	\$ 160.00	\$ 6,400.00	
7	Bored 14" thru 16" Steel Casing w/ 8" CERTA-LOK waterline, for Sanitary Sewer and Culvert crossings, all depths:	L.F.	70	\$ 260.00	\$ 18,200.00	\$ 398.00	\$ 27,860.00	\$ 130.00	\$ 9,100.00	\$ 285.00	\$ 19,950.00	\$ 100.00	\$ 7,000.00	\$ 160.00	\$ 11,200.00	
8	6" resilient seated gate valve with box:	EA.	3	\$ 1,400.00	\$ 4,200.00	\$ 3,165.00	\$ 9,495.00	\$ 1,150.00	\$ 3,450.00	\$ 800.00	\$ 2,400.00	\$ 1,850.00	\$ 5,550.00	\$ 1,200.00	\$ 3,600.00	
9	8" resilient seated gate valve with box:	EA.	52	\$ 1,600.00	\$ 83,200.00	\$ 3,550.00	\$ 184,600.00	\$ 1,200.00	\$ 62,400.00	\$ 1,200.00	\$ 62,400.00	\$ 1,500.00	\$ 78,000.00	\$ 1,500.00	\$ 78,000.00	
10	8" x 8" tapping sleeve and valve with box:	EA.	1	\$ 5,200.00	\$ 5,200.00	\$ 7,035.00	\$ 7,035.00	\$ 5,000.00	\$ 5,000.00	\$ 4,600.00	\$ 4,600.00	\$ 2,500.00	\$ 2,500.00	\$ 2,500.00	\$ 2,500.00	
11	16" x 8" tapping sleeve and valve with box:	EA.	1	\$ 8,500.00	\$ 8,500.00	\$ 6,545.00	\$ 6,545.00	\$ 5,000.00	\$ 5,000.00	\$ 9,000.00	\$ 9,000.00	\$ 3,000.00	\$ 3,000.00	\$ 3,500.00	\$ 3,500.00	
12	Fire hydrant assembly installed on new water main, including gate valve and lead pipe:	EA.	41	\$ 5,200.00	\$ 213,200.00	\$ 5,318.00	\$ 218,038.00	\$ 4,100.00	\$ 168,100.00	\$ 4,025.00	\$ 165,025.00	\$ 3,850.00	\$ 157,850.00	\$ 4,500.00	\$ 184,500.00	
13	Remove and dispose of existing fire hydrants and blow off valves:	EA.	12	\$ 500.00	\$ 6,000.00	\$ 809.00	\$ 9,708.00	\$ 250.00	\$ 3,000.00	\$ 250.00	\$ 3,000.00	\$ 50.00	\$ 600.00	\$ 50.00	\$ 600.00	
14	Abandon existing valve, includes removal and dispose of box, lid, and backfill:	EA.	35	\$ 300.00	\$ 10,500.00	\$ 810.00	\$ 28,350.00	\$ 100.00	\$ 3,500.00	\$ 150.00	\$ 5,250.00	\$ 50.00	\$ 1,750.00	\$ 50.00	\$ 1,750.00	
15	Install short side service, includes min. 1" polyethylene tubing:	EA.	110	\$ 450.00	\$ 49,500.00	\$ 762.00	\$ 83,820.00	\$ 600.00	\$ 66,000.00	\$ 437.00	\$ 48,070.00	\$ 250.00	\$ 27,500.00	\$ 500.00	\$ 55,000.00	
16	Install long side service, includes min. 1" polyethylene tubing:	EA.	140	\$ 650.00	\$ 91,000.00	\$ 1,179.00	\$ 165,060.00	\$ 700.00	\$ 98,000.00	\$ 664.00	\$ 92,960.00	\$ 500.00	\$ 70,000.00	\$ 500.00	\$ 70,000.00	
17	2" Service Tap:	EA.	1	\$ 1,800.00	\$ 1,800.00	\$ 1,392.00	\$ 1,392.00	\$ 2,000.00	\$ 1,800.00	\$ 1,151.00	\$ 1,151.00	\$ 250.00	\$ 250.00	\$ 800.00	\$ 800.00	
18	6" Wet Connection:	E.A.	1	\$ 1,800.00	\$ 1,800.00	\$ 1,800.00	\$ 1,800.00	\$ 1,000.00	\$ 1,000.00	\$ 800.00	\$ 800.00	\$ 2,500.00	\$ 2,500.00	\$ 500.00	\$ 500.00	
19	8" Wet Connection:	E.A.	2	\$ 2,500.00	\$ 5,000.00	\$ 1,845.00	\$ 3,690.00	\$ 1,500.00	\$ 3,000.00	\$ 1,400.00	\$ 2,800.00	\$ 2,500.00	\$ 5,000.00	\$ 750.00	\$ 1,500.00	
20	16" Wet Connection:	E.A.	1	\$ 8,500.00	\$ 8,500.00	\$ 4,450.00	\$ 4,450.00	\$ 4,000.00	\$ 4,000.00	\$ 2,600.00	\$ 2,600.00	\$ 3,500.00	\$ 3,500.00	\$ 1,500.00	\$ 1,500.00	
21	6" cut, plug and abandon existing water line:	EA.	3	\$ 650.00	\$ 1,950.00	\$ 1,295.00	\$ 3,885.00	\$ 200.00	\$ 600.00	\$ 700.00	\$ 2,100.00	\$ 100.00	\$ 300.00	\$ 750.00	\$ 2,250.00	
22	8" cut, plug and abandon existing water line:	EA.	2	\$ 850.00	\$ 1,700.00	\$ 1,740.00	\$ 3,480.00	\$ 200.00	\$ 400.00	\$ 700.00	\$ 1,400.00	\$ 100.00	\$ 200.00	\$ 800.00	\$ 1,600.00	
23	Inlet Protection Barrier (All-Types):	EA.	74	\$ 100.00	\$ 7,400.00	\$ 85.00	\$ 6,290.00	\$ 10.00	\$ 740.00	\$ 75.00	\$ 5,550.00	\$ 100.00	\$ 7,400.00	\$ 200.00	\$ 14,800.00	
24	Reinforced Filter Fabric Barrier:	LF	2500	\$ 4.00	\$ 10,000.00	\$ 2.00	\$ 5,000.00	\$ 3.00	\$ 7,500.00	\$ 3.00	\$ 7,500.00	\$ 0.10	\$ 250.00	\$ 4.00	\$ 10,000.00	
25	Trench Safety System for all water mains, greater than 5-feet deep:	L.F.	3000	\$ 0.50	\$ 1,500.00	\$ 1.00	\$ 3,000.00	\$ 0.01	\$ 30.00	\$ 0.10	\$ 300.00	\$ 0.10	\$ 300.00	\$ 10.00	\$ 30,000.00	
26	Remove and Replace existing asphalt pavement (all thicknesses):	SY	400	\$ 95.00	\$ 38,000.00	\$ 75.00	\$ 30,000.00	\$ 15.00	\$ 6,000.00	\$ 95.00	\$ 38,000.00	\$ 5.00	\$ 2,000.00	\$ 70.00	\$ 28,000.00	
27	Project Sign, Per Detail:	EA.	2	\$ 800.00	\$ 1,600.00	\$ 1,050.00	\$ 2,100.00	\$ 1,200.00	\$ 2,400.00	\$ 800.00	\$ 1,600.00	\$ 250.00	\$ 500.00	\$ 1,000.00	\$ 2,000.00	
28	Tree Protection:	LS	1	\$ 2,500.00	\$ 2,500.00	\$ 20,000.00	\$ 20,000.00	\$ 300.00	\$ 300.00	\$ 23,000.00	\$ 23,000.00	\$ 100.00	\$ 100.00	\$ 20,000.00	\$ 20,000.00	
29	Miscellaneous Allowance as approved by the City:	L.S.	1	\$ 50,000.00	\$ 50,000.00	\$ 50,000.00	\$ 50,000.00	\$ 50,000.00	\$ 50,000.00	\$ 50,000.00	\$ 50,000.00	\$ 50,000.00	\$ 50,000.00	\$ 50,000.00	\$ 50,000.00	
TOTAL WATER LINE BID ITEMS:					\$ 1,411,340.00	\$ 2,271,130.00	\$ 1,302,380.00	\$ 1,307,296.00	\$ 1,249,650.00	\$ 1,370,310.00						
SUPPLEMENTAL ITEMS																
30	Extra concrete, includes reinforcement:	C.Y.	50	\$ 60.00	\$ 3,000.00	\$ 110.00	\$ 5,500.00	\$ 100.00	\$ 5,000.00	\$ 60.00	\$ 3,000.00	\$ 60.00	\$ 3,000.00	\$ 60.00	\$ 3,000.00	
31	Installation of new meter box, per detail, at locations approved by the City:	EA.	25	\$ 100.00	\$ 2,500.00	\$ 1,165.00	\$ 29,125.00	\$ 100.00	\$ 2,500.00	\$ 100.00	\$ 2,500.00	\$ 100.00	\$ 2,500.00	\$ 100.00	\$ 2,500.00	
32	6-inch Inserta Valve on existing waterline:	EA.	1	\$ 8,500.00	\$ 8,500.00	\$ 11,395.00	\$ 11,395.00	\$ 8,000.00	\$ 8,000.00	\$ 9,400.00	\$ 9,400.00	\$ 4,000.00	\$ 4,000.00	\$ 4,000.00	\$ 4,000.00	
33	8-inch Inserta Valve on existing waterline:	EA.	1	\$ 9,600.00	\$ 9,600.00	\$ 12,865.00	\$ 12,865.00	\$ 8,000.00	\$ 8,000.00	\$ 10,800.00	\$ 10,800.00	\$ 4,500.00	\$ 4,500.00	\$ 4,500.00	\$ 4,500.00	
34	4-inch Wet Connection:	EA.	1	\$ 1,800.00	\$ 1,800.00	\$ 500.00	\$ 500.00	\$ 500.00	\$ 500.00	\$ 500.00	\$ 500.00	\$ 500.00	\$ 500.00	\$ 500.00	\$ 500.00	
35	4-inch Cut, Plug, and Abandon:	EA.	1	\$ 900.00	\$ 900.00	\$ 400.00	\$ 400.00	\$ 400.00	\$ 400.00	\$ 400.00	\$ 400.00	\$ 400.00	\$ 400.00	\$ 400.00	\$ 400.00	
36	Wet condition bedding, all sizes, all depths:	L.F.	100	\$ 5.00	\$ 500.00	\$ 5.00	\$ 500.00	\$ 5.00	\$ 500.00	\$ 5.00	\$ 500.00	\$ 5.00	\$ 500.00	\$ 5.00	\$ 500.00	
37	Installation and removal of piezometer:	EA.	10	\$ 80.00	\$ 800.00	\$ 80.00	\$ 800.00	\$ 80.00	\$ 800.00	\$ 80.00	\$ 800.00	\$ 80.00	\$ 800.00	\$ 80.00	\$ 800.00	
38	Extra cement stabilized sand:	C.Y.	200	\$ 15.00	\$ 3,000.00	\$ 45.00	\$ 9,000.00	\$ 15.00	\$ 3,000.00	\$ 15.00	\$ 3,000.00	\$ 15.00	\$ 3,000.00	\$ 15.00	\$ 3,000.00	
39	Extra 1" polyethylene service tubing:	L.F.	400	\$ 4.00	\$ 1,600.00	\$ 4.00	\$ 1,600.00	\$ 4.00	\$ 1,600.00	\$ 4.00	\$ 1,600.00	\$ 4.00	\$ 1,600.00	\$ 4.00	\$ 1,600.00	
40	Solid sheet shoring ordered left in place for all sizes:	L.F.	100	\$ 25.00	\$ 2,500.00	\$ 25.00	\$ 2,500.00	\$ 25.00	\$ 2,500.00	\$ 25.00	\$ 2,500.00	\$ 25.00	\$ 2,500.00	\$ 25.00	\$ 2,500.00	
41	Well pointing system, all depths:	L.F.	100	\$ 40.00	\$ 4,000.00	\$ 40.00	\$ 4,000.00	\$ 40.00	\$ 4,000.00	\$ 40.00	\$ 4,000.00	\$ 40.00	\$ 4,000.00	\$ 40.00	\$ 4,000.00	
42	Brace, support, and protect utility structures:	EA.	3	\$ 1,000.00	\$ 3,000.00	\$ 1,000.00	\$ 3,000.00	\$ 1,000.00	\$ 3,000.00	\$ 1,000.00	\$ 3,000.00	\$ 1,000.00	\$ 3,000.00	\$ 1,000.00	\$ 3,000.00	
43	Removal and replacement of additional existing asphalt driveway:	S.Y.	100	\$ 35.00	\$ 3,500.00	\$ 35.00	\$ 3,500.00	\$ 35.00	\$ 3,500.00	\$ 35.00	\$ 3,500.00	\$ 35.00	\$ 3,500.00	\$ 35.00	\$ 3,500.00	
44	Removal and replacement of existing concrete driveway:	S.Y.	200	\$ 70.00	\$ 14,000.00	\$ 70.00	\$ 14,000.00	\$ 100.00	\$ 20,000.00	\$ 70.00	\$ 14,000.00	\$ 70.00	\$ 14,000.00	\$ 70.00	\$ 14,000.00	
45	Additional removal and replacement of existing curb:	L.F.	100	\$ 10.00	\$ 1,000.00	\$ 10.00	\$ 1,000.00	\$ 10.00	\$ 1,000.00	\$ 10.00	\$ 1,000.00	\$ 10.00	\$ 1,000.00	\$ 10.00	\$ 1,000.00	
TOTAL SUPPLEMENTAL BID ITEMS:					\$ 60,200.00	\$ 99,685.00	\$ 64,300.00	\$ 60,500.00	\$ 48,800.00	\$ 48,800.00						
TOTAL BASE BID ITEMS:					\$ 1,471,540.00	\$ 2,370,815.00	\$ 1,366,680.00	\$ 1,367,796.00	\$ 1,298,450.00	\$ 1,419,110.00						
TOTAL CALENDAR DAYS BID:					240	345	360	360	390	580						
VALUE OF CALENDAR DAY:					\$ 500.00	\$ 1,000.00	\$ 500.00	\$ 500.00	\$ 500.00	\$ 500.00						
DIFFERENCE IN DAYS COMPARED TO LOWEST DAYS BID (150):					120	225	240	240	270	460						
A+B TO BE ADDED TO BASE BID:					\$ 60,000.00	\$ 225,000.00	\$ 120,000.00	\$ 120,000.00	\$ 135,000.00	\$ 230,000.00						
GRAND TOTAL:					\$ 1,531,540.00	\$ 2,595,815.00	\$ 1,486,680.00	\$ 1,487,796.00	\$ 1,433,450.00	\$ 1,649,110.00						
MATHEMATICAL ERROR CORRECTED BY ENGINEER																