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May 05, 2020

Mr. Marcos Garcia
Project Manager
City of League City
300 W. Walker St.
League City, Texas 77573

Subject: 16-inch Waterline from South Shore Harbour Booster Pump Station to FM 2094
Letter of Recommendation of Award
Bid No. 20-CIP-016
CIP No. WT1909

Dear Mr. Garcia:

The above referenced project was publicly advertised on April 7, 2020 and the bid opening held on April 29, 2020. This project involves the installation of approximately 3,600-linear feet of 16-inch poly vinyl chloride (PVC) water pipeline. The project was bid utilizing a traditional sealed bid process. Bid proposals were received from sixteen (16) contractors. The apparent low bidder is R Construction Civil. CDM Smith reviewed these bids as summarized below:

1.	R Construction Civil	\$ 713,647.20
2.	Triple B Services	\$ 761,000.00
3.	G&A Boring	\$ 774,868.05
4.	Reddico	\$ 820,084.40
5.	A R Turnkee	\$ 852,789.00
6.	DL Elliott Ent	\$ 890,814.00
7.	Principal Services	\$ 891,000.00
8.	EP Brady	\$ 935,981.85
9.	Statewide Services	\$ 996,024.00
10.	A Status Construction	\$ 1,005,838.00
11.	Blazey Construction	\$ 1,024,614.85
12.	DL Glover	\$ 1,063,163.00
13.	Aranda Industries	\$ 1,090,103.00
14.	Garney Companies	\$ 1,185,429.00
15.	Mar-con Services	\$ 1,367,902.70
16.	Fused Industries	\$ 1,569,824.00





The bids were checked for completeness, mathematical errors, and bid irregularities. Please note, two of the bidders, EP Brady and DL Gloves contained mathematical errors in their bid tabulation, however, none of the lowest five bids were affected. EP Brady and DL Gloves correct bid amounts respectively are \$935,981.85 and \$1,063,163.00. A tabulation of all the bid items are attached with corrected dollar amounts highlighted in red.

R Construction Civil provided a list of qualifications and references as required in the Statement of Bidder's Experience. The references provided by R Construction Civil were contacted and information on their performance and qualifications to perform similar work was obtained and reviewed. Most of the references contacted did not have any negative comments indicating their inability to perform the work. Several references indicated they would work with R Construction Civil again on future projects. R Construction Civil successfully performed water infrastructure installations for other municipalities.

Additionally, CDM Smith discussed the project with R Construction Civil and reviewed their experience, qualifications, and ability to perform the project within their proposed schedule. R Construction Civil confirmed they are confident to complete the project within their proposed schedule.

CDM Smith recommends that the City of League City award the referenced project to R Construction Civil in the amount not to exceed **\$713,647.20** for the bid, subject to formal approval by the City of League City Council.

If you have any questions regarding this project, please do not hesitate to contact me.

Sincerely

Very truly yours,

A handwritten signature in black ink that reads "Kimberly Chanslor".

Kimberly Chanslor, P.E.
Project Manager
CDM Smith Inc.
TX PE Firm Registration-F3043

A handwritten signature in blue ink that reads "André McBarnette".

André McBarnette, P.E.
Project Manager
CDM Smith Inc.
TX PE Firm Registration-F3043

Attachment: Bid Tabulation

cc: Ron Bavarian, City of League City
Marcos Garcia, City of League City
CDM Smith Project File No. 238474

16-inch Waterline From South Shore Harbour Pump Station to FM 2094
 Bid No. 20-CIP-016
 Bid Open: April 29, 2020

Item No.	Item Description	Unit	Estimated Quantity	R Construction Civil		Tribble B Services		G & A Boring	
				Unit Price In Figure	Amount In Figure	Unit Price In Figure	Amount In Figure	Unit Price In Figure	Amount In Figure
1	Insurance, Bonds and Mobilization/ Demobilization not to exceed 5% of Total Bid	LS	1	\$ 35,000.00	\$ 35,000.00	\$ 15,000.00	\$ 15,000.00	\$ 40,418.05	\$ 40,418.05
2	Storm Water Pollution Prevention Plan (SWPPP) and SWPPP Implementation, including installation, maintenance and removal of the stabilized construction entrance, silt fencing, and other required temporary sedimentation and erosion control best management practices as required by the contract documents, complete in place as detailed and specified.	LS	1	\$ 10,000.00	\$ 10,000.00	\$ 500.00	\$ 500.00	\$ 5,000.00	\$ 5,000.00
3	Site and Right-of-Way Preparation, including clearing and grubbing, complete in place as detailed and specified.	LS	1	\$ 10,000.00	\$ 10,000.00	\$ 17,500.00	\$ 17,500.00	\$ 5,000.00	\$ 5,000.00
4	Traffic Control Plan and Implementation, complete in place as detailed and specified.	LS	1	\$ 8,500.00	\$ 8,500.00	\$ 13,800.00	\$ 13,800.00	\$ 2,000.00	\$ 2,000.00
5	Remove and replace existing fence, including temporary improvements to provide temporary access gate(s) and fencing to keep the site, materials, and equipment secure, complete in place as detailed and specified.	LS	1	\$ 25,000.00	\$ 25,000.00	\$ 7,750.00	\$ 7,750.00	\$ 5,000.00	\$ 5,000.00
6	Trench Safety Plan and Implementation, as required for all pipe trenches deeper than five feet, complete in place as detailed and specified.	LF	3,068	\$ 0.10	\$ 306.80	\$ 0.10	\$ 306.80	\$ 7.00	\$ 21,476.00
7	Furnish and Install 16-inch AWWA C900 DR-18 PVC Pipe (Open Trench Construction), all depths, including fittings, restraints as specified, thrust blocks as specified, excavation, bedding, backfill, trench surface restoration and appurtenances, complete in place as detailed and specified.	LF	3,068	\$ 45.00	\$ 138,060.00	\$ 65.00	\$ 199,420.00	\$ 62.00	\$ 190,216.00
8	Furnish and Install Restrained 16-inch AWWA C900 DR-18 PVC Pipe inside Steel Casing Pipe, including fittings, restraints, casing spacers, end seal caps, dewatering, and appurtenances, as shown in Detail C, Sheet CZ-3, complete in place as detailed and specified.	LF	569	\$ 60.00	\$ 34,140.00	\$ 93.00	\$ 52,917.00	\$ 62.00	\$ 35,278.00
9	Furnish and Install 16-inch Gate Valve and associated appurtenances, as shown in Detail C on Sheet CZ-1, complete in place as detailed and specified.	EA	5	\$ 8,300.00	\$ 41,500.00	\$ 9,400.00	\$ 47,000.00	\$ 8,500.00	\$ 42,500.00
10	Furnish and Install Pressure Monitoring Station adjacent to Gate Valve, including appurtenances, as shown in Detail E on Sheet CZ-2, complete in place as detailed and specified.	EA	1	\$ 1,200.00	\$ 1,200.00	\$ 2,200.00	\$ 2,200.00	\$ 1,100.00	\$ 1,100.00
11	Connect new 16-inch Water Pipe to existing 24-inch mechanical joint tee, including fittings, restraints, adapters, 24" diameter pipe, excavation, bedding, backfill, and appurtenances, complete in place as detailed and specified.	LS	1	\$ 3,500.00	\$ 3,500.00	\$ 3,600.00	\$ 3,600.00	\$ 4,000.00	\$ 4,000.00
12	Furnish and Install 2-inch Combination Air/Vacuum Valve, and associated appurtenances, as shown in Detail A on Sheet CZ-3, complete in place as detailed and specified.	LS	5	\$ 6,300.00	\$ 31,500.00	\$ 6,800.00	\$ 34,000.00	\$ 8,000.00	\$ 40,000.00
13	Furnish and Install 16-inch by 16-inch Tapping Sleeve and 16-inch Tapping Gate Valve, including line tap, excavation, bedding, backfill and associated appurtenances, as shown in Detail D on Sheet CZ-1, complete in place as detailed and specified.	EA	1	\$ 20,000.00	\$ 20,000.00	\$ 23,000.00	\$ 23,000.00	\$ 22,000.00	\$ 22,000.00
14	Furnish and Install Fire Hydrant, tee, 6-inch gate valve, 6-inch feed pipe (all lengths), restraints, thrust blocks, excavation, bedding, backfill, and associated appurtenances, as shown in Detail B on Sheet CZ-2, complete in place as detailed and specified.	EA	3	\$ 4,800.00	\$ 14,400.00	\$ 4,600.00	\$ 13,800.00	\$ 4,500.00	\$ 13,500.00
15	Furnish and Install 28-inch Inside Diameter Steel Casing Pipe (Jack and Bore Construction), 1/2-inch wall thickness, including bore pits, backfill and appurtenances, complete in place as detailed and specified.	LF	569	\$ 494.00	\$ 281,086.00	\$ 435.00	\$ 247,515.00	\$ 500.00	\$ 284,500.00
16	Pressure Testing and Leakage Testing of Water Pipelines, complete in place as detailed and specified.	LS	1	\$ 3,000.00	\$ 3,000.00	\$ 4,200.00	\$ 4,200.00	\$ 1,000.00	\$ 1,000.00
17	Disinfection of Water Pipelines, complete in place as detailed and specified.	LS	1	\$ 1,500.00	\$ 1,500.00	\$ 5,260.20	\$ 5,260.20	\$ 1,000.00	\$ 1,000.00
18	Provide Re-vegetation by sodding, complete in place as detailed and specified.	SF	25,160	\$ 0.39	\$ 9,812.40	\$ 0.60	\$ 15,096.00	\$ 0.50	\$ 12,580.00
19	Provide Re-vegetation by Hydros seeding (hydromulch), complete in place as detailed and specified.	SY	7,300	\$ 0.34	\$ 2,482.00	\$ 0.55	\$ 4,015.00	\$ 0.50	\$ 3,650.00
20	Well Pointing, as authorized by the Engineer. Furnish, install, and remove well points for dewatering including materials, labor, equipment and all appurtenances, per vertical linear foot. Unit price shall include surface piping as needed to discharge water, no separate pay. No separate pay will be made for other dewatering approaches. Complete in place as detailed and specified.	LF	1,500	\$ 25.00	\$ 37,500.00	\$ 25.00	\$ 37,500.00	\$ 27.00	\$ 40,500.00
21	Extra Excavation (Machine), complete in place.	CY	100	\$ 10.00	\$ 1,000.00	\$ 10.00	\$ 1,000.00	\$ 2.00	\$ 200.00
22	Extra Excavation (Hand), complete in place.	CY	50	\$ 20.00	\$ 1,000.00	\$ 30.00	\$ 1,500.00	\$ 5.00	\$ 250.00
23	Extra Cement Stabilized Sand, compacted, complete in place.	CY	20	\$ 20.00	\$ 400.00	\$ 50.00	\$ 1,000.00	\$ 15.00	\$ 300.00
24	Extra Labor, Skilled.	MH	20	\$ 20.00	\$ 400.00	\$ 28.00	\$ 560.00	\$ 40.00	\$ 800.00
25	Extra Labor, Unskilled.	MH	20	\$ 18.00	\$ 360.00	\$ 28.00	\$ 560.00	\$ 30.00	\$ 600.00
26	Extra ductile iron fittings, complete in place	Tons	4	\$ 500.00	\$ 2,000.00	\$ 3,000.00	\$ 12,000.00	\$ 500.00	\$ 2,000.00
TOTAL AMOUNT BID					\$ 713,647.20		\$ 761,000.00		\$ 774,868.05

16-inch Waterline From South Shore Harbour Pump Station to FM 2094
 Bid No. 20-CIP-016
 Bid Open: April 29, 2020

Item No.	Item Description	Unit	Estimated Quantity	Reddico		AR Turnkee		DL Elliot	
				Unit Price In Figure	Amount In Figure	Unit Price In Figure	Amount In Figure	Unit Price In Figure	Amount In Figure
1	Insurance, Bonds and Mobilization/ Demobilization not to exceed 5% of Total Bid	LS	1	\$ 40,000.00	\$ 40,000.00	\$ 21,000.00	\$ 21,000.00	\$ 30,000.00	\$ 30,000.00
2	Storm Water Pollution Prevention Plan (SWPPP) and SWPPP Implementation, including installation, maintenance and removal of the stabilized construction entrance, silt fencing, and other required temporary sedimentation and erosion control best management practices as required by the contract documents, complete in place as detailed and specified.	LS	1	\$ 6,000.00	\$ 6,000.00	\$ 9,000.00	\$ 9,000.00	\$ 10,000.00	\$ 10,000.00
3	Site and Right-of-Way Preparation, including clearing and grubbing, complete in place as detailed and specified.	LS	1	\$ 22,000.00	\$ 22,000.00	\$ 45,000.00	\$ 45,000.00	\$ 40,000.00	\$ 40,000.00
4	Traffic Control Plan and Implementation, complete in place as detailed and specified.	LS	1	\$ 14,000.00	\$ 14,000.00	\$ 21,000.00	\$ 21,000.00	\$ 1,500.00	\$ 1,500.00
5	Remove and replace existing fence, including temporary improvements to provide temporary access gate(s) and fencing to keep the site, materials, and equipment secure, complete in place as detailed and specified.	LS	1	\$ 3,500.00	\$ 3,500.00	\$ 5,000.00	\$ 5,000.00	\$ 3,000.00	\$ 3,000.00
6	Trench Safety Plan and Implementation, as required for all pipe trenches deeper than five feet, complete in place as detailed and specified.	LF	3,068	\$ 0.05	\$ 153.40	\$ 2.00	\$ 6,136.00	\$ 1.00	\$ 3,068.00
7	Furnish and Install 16-inch AWWA C900 DR-18 PVC Pipe (Open Trench Construction), all depths, including fittings, restraints as specified, thrust blocks as specified, excavation, bedding, backfill, trench surface restoration and appurtenances, complete in place as detailed and specified.	LF	3,068	\$ 62.00	\$ 190,216.00	\$ 65.50	\$ 200,954.00	\$ 78.00	\$ 239,304.00
8	Furnish and Install Restrained 16-inch AWWA C900 DR-18 PVC Pipe inside Steel Casing Pipe, including fittings, restraints, casing spacers, end seal caps, dewatering, and appurtenances, as shown in Detail C, Sheet CZ-3, complete in place as detailed and specified.	LF	569	\$ 102.00	\$ 58,038.00	\$ 111.00	\$ 63,159.00	\$ 218.00	\$ 124,042.00
9	Furnish and Install 16-inch Gate Valve and associated appurtenances, as shown in Detail C on Sheet CZ-1, complete in place as detailed and specified.	EA	5	\$ 8,300.00	\$ 41,500.00	\$ 9,495.00	\$ 47,475.00	\$ 8,500.00	\$ 42,500.00
10	Furnish and Install Pressure Monitoring Station adjacent to Gate Valve, including appurtenances, as shown in Detail E on Sheet CZ-2, complete in place as detailed and specified.	EA	1	\$ 1,000.00	\$ 1,000.00	\$ 2,000.00	\$ 2,000.00	\$ 1,000.00	\$ 1,000.00
11	Connect new 16-inch Water Pipe to existing 24-inch mechanical joint tee, including fittings, restraints, adapters, 24" diameter pipe, excavation, bedding, backfill, and appurtenances, complete in place as detailed and specified.	LS	1	\$ 6,000.00	\$ 6,000.00	\$ 11,750.00	\$ 11,750.00	\$ 6,000.00	\$ 6,000.00
12	Furnish and Install 2-inch Combination Air/Vacuum Valve, and associated appurtenances, as shown in Detail A on Sheet CZ-3, complete in place as detailed and specified.	LS	5	\$ 7,500.00	\$ 37,500.00	\$ 9,000.00	\$ 45,000.00	\$ 9,000.00	\$ 45,000.00
13	Furnish and Install 16-inch by 16-inch Tapping Sleeve and 16-inch Tapping Gate Valve, including line tap, excavation, bedding, backfill and associated appurtenances, as shown in Detail D on Sheet CZ-1, complete in place as detailed and specified.	EA	1	\$ 25,000.00	\$ 25,000.00	\$ 32,000.00	\$ 32,000.00	\$ 22,500.00	\$ 22,500.00
14	Furnish and Install Fire Hydrant, tee, 6-inch gate valve, 6-inch feed pipe (all lengths), restraints, thrust blocks, excavation, bedding, backfill, and associated appurtenances, as shown in Detail B on Sheet CZ-2, complete in place as detailed and specified.	EA	3	\$ 4,400.00	\$ 13,200.00	\$ 4,900.00	\$ 14,700.00	\$ 5,000.00	\$ 15,000.00
15	Furnish and Install 28-inch Inside Diameter Steel Casing Pipe (Jack and Bore Construction), 1/2-inch wall thickness, including bore pits, backfill and appurtenances, complete in place as detailed and specified.	LF	569	\$ 493.00	\$ 280,517.00	\$ 445.00	\$ 253,205.00	\$ 400.00	\$ 227,600.00
16	Pressure Testing and Leakage Testing of Water Pipelines, complete in place as detailed and specified.	LS	1	\$ 10,000.00	\$ 10,000.00	\$ 2,000.00	\$ 2,000.00	\$ 3,000.00	\$ 3,000.00
17	Disinfection of Water Pipelines, complete in place as detailed and specified.	LS	1	\$ 11,000.00	\$ 11,000.00	\$ 750.00	\$ 750.00	\$ 1,000.00	\$ 1,000.00
18	Provide Re-vegetation by sodding, complete in place as detailed and specified.	SF	25,160	\$ 0.50	\$ 12,580.00	\$ 1.00	\$ 25,160.00	\$ 1.00	\$ 25,160.00
19	Provide Re-vegetation by Hydroseeding (hydromulch), complete in place as detailed and specified.	SY	7,300	\$ 0.40	\$ 2,920.00	\$ 0.50	\$ 3,650.00	\$ 0.50	\$ 3,650.00
20	Well Pointing, as authorized by the Engineer. Furnish, install, and remove well points for dewatering including materials, labor, equipment and all appurtenances, per vertical linear foot. Unit price shall include surface piping as needed to discharge water, no separate pay. No separate pay will be made for other dewatering approaches. Complete in place as detailed and specified.	LF	1,500	\$ 25.00	\$ 37,500.00	\$ 25.00	\$ 37,500.00	\$ 25.00	\$ 37,500.00
21	Extra Excavation (Machine), complete in place.	CY	100	\$ 4.00	\$ 400.00	\$ 2.00	\$ 200.00	\$ 15.00	\$ 1,500.00
22	Extra Excavation (Hand), complete in place.	CY	50	\$ 20.00	\$ 1,000.00	\$ 5.00	\$ 250.00	\$ 25.00	\$ 1,250.00
23	Extra Cement Stabilized Sand, compacted, complete in place.	CY	20	\$ 38.00	\$ 760.00	\$ 20.00	\$ 400.00	\$ 20.00	\$ 400.00
24	Extra Labor, Skilled.	MH	20	\$ 38.00	\$ 760.00	\$ 20.00	\$ 400.00	\$ 22.00	\$ 440.00
25	Extra Labor, Unskilled.	MH	20	\$ 27.00	\$ 540.00	\$ 15.00	\$ 300.00	\$ 20.00	\$ 400.00
26	Extra ductile iron fittings, complete in place	Tons	4	\$ 1,000.00	\$ 4,000.00	\$ 1,200.00	\$ 4,800.00	\$ 1,500.00	\$ 6,000.00
TOTAL AMOUNT BID					\$ 820,084.40		\$ 852,789.00		\$ 890,814.00

16-inch Waterline From South Shore Harbour Pump Station to FM 2094
 Bid No. 20-CIP-016
 Bid Open: April 29, 2020

Item No.	Item Description	Unit	Estimated Quantity	Principal Services		EP Brady		Statewide Services	
				Unit Price In Figure	Amount In Figure	Unit Price In Figure	Amount In Figure	Unit Price In Figure	Amount In Figure
1	Insurance, Bonds and Mobilization/ Demobilization not to exceed 5% of Total Bid	LS	1	\$ 44,029.20	\$ 44,029.20	\$ 42,500.00	\$ 42,500.00	\$ 50,000.00	\$ 50,000.00
2	Storm Water Pollution Prevention Plan (SWPPP) and SWPPP Implementation, including installation, maintenance and removal of the stabilized construction entrance, silt fencing, and other required temporary sedimentation and erosion control best management practices as required by the contract documents, complete in place as detailed and specified.	LS	1	\$ 5,000.00	\$ 5,000.00	\$ 22,400.00	\$ 22,400.00	\$ 7,500.00	\$ 7,500.00
3	Site and Right-of-Way Preparation, including clearing and grubbing, complete in place as detailed and specified.	LS	1	\$ 40,000.00	\$ 40,000.00	\$ 11,000.00	\$ 11,000.00	\$ 40,000.00	\$ 40,000.00
4	Traffic Control Plan and Implementation, complete in place as detailed and specified.	LS	1	\$ 15,000.00	\$ 15,000.00	\$ 6,270.00	\$ 6,270.00	\$ 10,000.00	\$ 10,000.00
5	Remove and replace existing fence, including temporary improvements to provide temporary access gate(s) and fencing to keep the site, materials, and equipment secure, complete in place as detailed and specified.	LS	1	\$ 25,000.00	\$ 25,000.00	\$ 5,190.00	\$ 5,190.00	\$ 45,000.00	\$ 45,000.00
6	Trench Safety Plan and Implementation, as required for all pipe trenches deeper than five feet, complete in place as detailed and specified.	LF	3,068	\$ 0.10	\$ 306.80	\$ 1.00	\$ 3,068.00	\$ 2.00	\$ 6,136.00
7	Furnish and Install 16-inch AWWA C900 DR-18 PVC Pipe (Open Trench Construction), all depths, including fittings, restraints as specified, thrust blocks as specified, excavation, bedding, backfill, trench surface restoration and appurtenances, complete in place as detailed and specified.	LF	3,068	\$ 53.00	\$ 162,604.00	\$ 84.15	\$ 258,172.20	\$ 91.00	\$ 279,188.00
8	Furnish and Install Restrained 16-inch AWWA C900 DR-18 PVC Pipe inside Steel Casing Pipe, including fittings, restraints, casing spacers, end seal caps, dewatering, and appurtenances, as shown in Detail C, Sheet CZ-3, complete in place as detailed and specified.	LF	569	\$ 100.00	\$ 56,900.00	\$ 81.85	\$ 46,572.65	\$ 62.00	\$ 35,278.00
9	Furnish and Install 16-inch Gate Valve and associated appurtenances, as shown in Detail C on Sheet CZ-1, complete in place as detailed and specified.	EA	5	\$ 10,000.00	\$ 50,000.00	\$ 9,435.00	\$ 47,175.00	\$ 8,850.00	\$ 44,250.00
10	Furnish and Install Pressure Monitoring Station adjacent to Gate Valve, including appurtenances, as shown in Detail E on Sheet CZ-2, complete in place as detailed and specified.	EA	1	\$ 5,000.00	\$ 5,000.00	\$ 1,265.00	\$ 1,265.00	\$ 1,700.00	\$ 1,700.00
11	Connect new 16-inch Water Pipe to existing 24-inch mechanical joint tee, including fittings, restraints, adapters, 24" diameter pipe, excavation, bedding, backfill, and appurtenances, complete in place as detailed and specified.	LS	1	\$ 3,500.00	\$ 3,500.00	\$ 7,260.00	\$ 7,260.00	\$ 4,000.00	\$ 4,000.00
12	Furnish and Install 2-inch Combination Air/Vacuum Valve, and associated appurtenances, as shown in Detail A on Sheet CZ-3, complete in place as detailed and specified.	LS	5	\$ 7,500.00	\$ 37,500.00	\$ 7,785.00	\$ 38,925.00	\$ 8,600.00	\$ 43,000.00
13	Furnish and Install 16-inch by 16-inch Tapping Sleeve and 16-inch Tapping Gate Valve, including line tap, excavation, bedding, backfill and associated appurtenances, as shown in Detail D on Sheet CZ-1, complete in place as detailed and specified.	EA	1	\$ 30,000.00	\$ 30,000.00	\$ 23,600.00	\$ 23,600.00	\$ 23,000.00	\$ 23,000.00
14	Furnish and Install Fire Hydrant, tee, 6-inch gate valve, 6-inch feed pipe (all lengths), restraints, thrust blocks, excavation, bedding, backfill, and associated appurtenances, as shown in Detail B on Sheet CZ-2, complete in place as detailed and specified.	EA	3	\$ 5,500.00	\$ 16,500.00	\$ 4,950.00	\$ 14,850.00	\$ 4,800.00	\$ 14,400.00
15	Furnish and Install 28-inch Inside Diameter Steel Casing Pipe (Jack and Bore Construction), ¼-inch wall thickness, including bore pits, backfill and appurtenances, complete in place as detailed and specified.	LF	569	\$ 550.00	\$ 312,950.00	\$ 575.00	\$ 327,175.00	\$ 563.00	\$ 320,347.00
16	Pressure Testing and Leakage Testing of Water Pipelines, complete in place as detailed and specified.	LS	1	\$ 5,000.00	\$ 5,000.00	\$ 4,510.00	\$ 4,510.00	\$ 2,500.00	\$ 2,500.00
17	Disinfection of Water Pipelines, complete in place as detailed and specified.	LS	1	\$ 5,000.00	\$ 5,000.00	\$ 6,325.00	\$ 6,325.00	\$ 2,500.00	\$ 2,500.00
18	Provide Re-vegetation by sodding, complete in place as detailed and specified.	SF	25,160	\$ 1.00	\$ 25,160.00	\$ 0.75	\$ 18,870.00	\$ 0.40	\$ 10,064.00
19	Provide Re-vegetation by Hydroseeding (hydromulch), complete in place as detailed and specified.	SY	7,300	\$ 1.00	\$ 7,300.00	\$ 0.50	\$ 3,650.00	\$ 0.57	\$ 4,161.00
20	Well Pointing, as authorized by the Engineer. Furnish, install, and remove well points for dewatering including materials, labor, equipment and all appurtenances, per vertical linear foot. Unit price shall include surface piping as needed to discharge water, no separate pay. No separate pay will be made for other dewatering approaches. Complete in place as detailed and specified.	LF	1,500	\$ 25.00	\$ 37,500.00	\$ 25.00	\$ 37,500.00	\$ 25.00	\$ 37,500.00
21	Extra Excavation (Machine), complete in place.	CY	100	\$ 7.50	\$ 750.00	\$ 5.00	\$ 500.00	\$ 5.00	\$ 500.00
22	Extra Excavation (Hand), complete in place.	CY	50	\$ 10.00	\$ 500.00	\$ 6.60	\$ 330.00	\$ 22.00	\$ 1,100.00
23	Extra Cement Stabilized Sand, compacted, complete in place.	CY	20	\$ 25.00	\$ 500.00	\$ 40.00	\$ 800.00	\$ 40.00	\$ 800.00
24	Extra Labor, Skilled.	MH	20	\$ 30.00	\$ 600.00	\$ 35.00	\$ 700.00	\$ 35.00	\$ 700.00
25	Extra Labor, Unskilled.	MH	20	\$ 20.00	\$ 400.00	\$ 37.50	\$ 750.00	\$ 20.00	\$ 400.00
26	Extra ductile iron fittings, complete in place	Tons	4	\$ 1,000.00	\$ 4,000.00	\$ 1,656.00	\$ 6,624.00	\$ 3,000.00	\$ 12,000.00
TOTAL AMOUNT BID					\$ 891,000.00		\$ 935,981.85		\$ 996,024.00

16-inch Waterline From South Shore Harbour Pump Station to FM 2094
 Bid No. 20-CIP-016
 Bid Open: April 29, 2020

Item No.	Item Description	Unit	Estimated Quantity	A Status Construction		DL Glover		Aranda Industries	
				Unit Price In Figure	Amount In Figure	Unit Price In Figure	Amount In Figure	Unit Price In Figure	Amount In Figure
1	Insurance, Bonds and Mobilization/ Demobilization not to exceed 5% of Total Bid	LS	1	\$ 36,000.00	\$ 36,000.00	\$ 33,562.00	\$ 33,562.00	\$ 55,000.00	\$ 55,000.00
2	Storm Water Pollution Prevention Plan (SWPPP) and SWPPP Implementation, including installation, maintenance and removal of the stabilized construction entrance, silt fencing, and other required temporary sedimentation and erosion control best management practices as required by the contract documents, complete in place as detailed and specified.	LS	1	\$ 12,000.00	\$ 12,000.00	\$ 5,000.00	\$ 5,000.00	\$ 10,000.00	\$ 10,000.00
3	Site and Right-of-Way Preparation, including clearing and grubbing, complete in place as detailed and specified.	LS	1	\$ 12,000.00	\$ 12,000.00	\$ 6,300.00	\$ 6,300.00	\$ 15,000.00	\$ 15,000.00
4	Traffic Control Plan and Implementation, complete in place as detailed and specified.	LS	1	\$ 12,000.00	\$ 12,000.00	\$ 10,500.00	\$ 10,500.00	\$ 15,000.00	\$ 15,000.00
5	Remove and replace existing fence, including temporary improvements to provide temporary access gate(s) and fencing to keep the site, materials, and equipment secure, complete in place as detailed and specified.	LS	1	\$ 9,600.00	\$ 9,600.00	\$ 40,750.00	\$ 40,750.00	\$ 46,387.00	\$ 46,387.00
6	Trench Safety Plan and Implementation, as required for all pipe trenches deeper than five feet, complete in place as detailed and specified.	LF	3,068	\$ 0.75	\$ 2,301.00	\$ 1.00	\$ 3,068.00	\$ 1.00	\$ 3,068.00
7	Furnish and Install 16-inch AWWA C900 DR-18 PVC Pipe (Open Trench Construction), all depths, including fittings, restraints as specified, thrust blocks as specified, excavation, bedding, backfill, trench surface restoration and appurtenances, complete in place as detailed and specified.	LF	3,068	\$ 55.25	\$ 169,507.00	\$ 60.00	\$ 184,080.00	\$ 80.00	\$ 245,440.00
8	Furnish and Install Restrained 16-inch AWWA C900 DR-18 PVC Pipe inside Steel Casing Pipe, including fittings, restraints, casing spacers, end seal caps, dewatering, and appurtenances, as shown in Detail C, Sheet CZ-3, complete in place as detailed and specified.	LF	569	\$ 90.00	\$ 51,210.00	\$ 605.00	\$ 344,245.00	\$ 121.00	\$ 68,849.00
9	Furnish and Install 16-inch Gate Valve and associated appurtenances, as shown in Detail C on Sheet CZ-1, complete in place as detailed and specified.	EA	5	\$ 11,170.00	\$ 55,850.00	\$ 12,000.00	\$ 60,000.00	\$ 11,710.00	\$ 58,550.00
10	Furnish and Install Pressure Monitoring Station adjacent to Gate Valve, including appurtenances, as shown in Detail E on Sheet CZ-2, complete in place as detailed and specified.	EA	1	\$ 1,200.00	\$ 1,200.00	\$ 15,850.00	\$ 15,850.00	\$ 1,092.00	\$ 1,092.00
11	Connect new 16-inch Water Pipe to existing 24-inch mechanical joint tee, including fittings, restraints, adapters, 24" diameter pipe, excavation, bedding, backfill, and appurtenances, complete in place as detailed and specified.	LS	1	\$ 3,900.00	\$ 3,900.00	\$ 6,250.00	\$ 6,250.00	\$ 7,020.00	\$ 7,020.00
12	Furnish and Install 2-inch Combination Air/Vacuum Valve, and associated appurtenances, as shown in Detail A on Sheet CZ-3, complete in place as detailed and specified.	LS	5	\$ 8,725.00	\$ 43,625.00	\$ 10,000.00	\$ 50,000.00	\$ 8,359.00	\$ 41,795.00
13	Furnish and Install 16-inch by 16-inch Tapping Sleeve and 16-inch Tapping Gate Valve, including line tap, excavation, bedding, backfill and associated appurtenances, as shown in Detail D on Sheet CZ-1, complete in place as detailed and specified.	EA	1	\$ 25,750.00	\$ 25,750.00	\$ 30,500.00	\$ 30,500.00	\$ 30,420.00	\$ 30,420.00
14	Furnish and Install Fire Hydrant, tee, 6-inch gate valve, 6-inch feed pipe (all lengths), restraints, thrust blocks, excavation, bedding, backfill, and associated appurtenances, as shown in Detail B on Sheet CZ-2, complete in place as detailed and specified.	EA	3	\$ 5,450.00	\$ 16,350.00	\$ 8,500.00	\$ 25,500.00	\$ 6,153.00	\$ 18,459.00
15	Furnish and Install 28-inch Inside Diameter Steel Casing Pipe (Jack and Bore Construction), 1/2-inch wall thickness, including bore pits, backfill and appurtenances, complete in place as detailed and specified.	LF	569	\$ 735.00	\$ 418,215.00	\$ 165.00	\$ 93,885.00	\$ 571.00	\$ 324,899.00
16	Pressure Testing and Leakage Testing of Water Pipelines, complete in place as detailed and specified.	LS	1	\$ 12,000.00	\$ 12,000.00	\$ 11,500.00	\$ 11,500.00	\$ 10,000.00	\$ 10,000.00
17	Disinfection of Water Pipelines, complete in place as detailed and specified.	LS	1	\$ 6,000.00	\$ 6,000.00	\$ 10,500.00	\$ 10,500.00	\$ 10,000.00	\$ 10,000.00
18	Provide Re-vegetation by sodding, complete in place as detailed and specified.	SF	25,160	\$ 1.75	\$ 44,030.00	\$ 3.00	\$ 75,480.00	\$ 2.00	\$ 50,320.00
19	Provide Re-vegetation by Hydroseeding (hydromulch), complete in place as detailed and specified.	SY	7,300	\$ 2.00	\$ 14,600.00	\$ 0.35	\$ 2,555.00	\$ 1.00	\$ 7,300.00
20	Well Pointing, as authorized by the Engineer. Furnish, install, and remove well points for dewatering including materials, labor, equipment and all appurtenances, per vertical linear foot. Unit price shall include surface piping as needed to discharge water, no separate pay. No separate pay will be made for other dewatering approaches. Complete in place as detailed and specified.	LF	1,500	\$ 25.00	\$ 37,500.00	\$ 25.00	\$ 37,500.00	\$ 40.00	\$ 60,000.00
21	Extra Excavation (Machine), complete in place.	CY	100	\$ 15.00	\$ 1,500.00	\$ 27.00	\$ 2,700.00	\$ 50.00	\$ 5,000.00
22	Extra Excavation (Hand), complete in place.	CY	50	\$ 45.00	\$ 2,250.00	\$ 37.00	\$ 1,850.00	\$ 50.00	\$ 2,500.00
23	Extra Cement Stabilized Sand, compacted, complete in place.	CY	20	\$ 60.50	\$ 1,210.00	\$ 27.00	\$ 540.00	\$ 50.00	\$ 1,000.00
24	Extra Labor, Skilled.	MH	20	\$ 42.00	\$ 840.00	\$ 53.00	\$ 1,060.00	\$ 75.00	\$ 1,500.00
25	Extra Labor, Unskilled.	MH	20	\$ 20.00	\$ 400.00	\$ 48.00	\$ 960.00	\$ 75.00	\$ 1,500.00
26	Extra ductile iron fittings, complete in place	Tons	4	\$ 4,000.00	\$ 16,000.00	\$ 2,257.00	\$ 9,028.00	\$ 1.00	\$ 4.00
TOTAL AMOUNT BID					\$ 1,005,838.00		\$ 1,063,163.00		\$ 1,090,103.00

16-inch Waterline From South Shore Harbour Pump Station to FM 2094
 Bid No. 20-CIP-016
 Bid Open: April 29, 2020

Item No.	Item Description	Unit	Estimated Quantity	Garney Companies		Man-Con Services		Fused Industries	
				Unit Price In Figure	Amount In Figure	Unit Price In Figure	Amount In Figure	Unit Price In Figure	Amount In Figure
1	Insurance, Bonds and Mobilization/ Demobilization not to exceed 5% of Total Bid	LS	1	\$ 59,000.00	\$ 59,000.00	\$ 24,000.00	\$ 24,000.00	\$ 75,000.00	\$ 75,000.00
2	Storm Water Pollution Prevention Plan (SWPPP) and SWPPP Implementation, including installation, maintenance and removal of the stabilized construction entrance, silt fencing, and other required temporary sedimentation and erosion control best management practices as required by the contract documents, complete in place as detailed and specified.	LS	1	\$ 9,000.00	\$ 9,000.00	\$ 20,000.00	\$ 20,000.00	\$ 21,000.00	\$ 21,000.00
3	Site and Right-of-Way Preparation, including clearing and grubbing, complete in place as detailed and specified.	LS	1	\$ 4,000.00	\$ 4,000.00	\$ 184,074.80	\$ 184,074.80	\$ 38,000.00	\$ 38,000.00
4	Traffic Control Plan and Implementation, complete in place as detailed and specified.	LS	1	\$ 3,000.00	\$ 3,000.00	\$ 6,900.00	\$ 6,900.00	\$ 47,000.00	\$ 47,000.00
5	Remove and replace existing fence, including temporary improvements to provide temporary access gate(s) and fencing to keep the site, materials, and equipment secure, complete in place as detailed and specified.	LS	1	\$ 14,500.00	\$ 14,500.00	\$ 10,000.00	\$ 10,000.00	\$ 43,143.00	\$ 43,143.00
6	Trench Safety Plan and Implementation, as required for all pipe trenches deeper than five feet, complete in place as detailed and specified.	LF	3,068	\$ 5.00	\$ 15,340.00	\$ 1.70	\$ 5,215.60	\$ 1.50	\$ 4,602.00
7	Furnish and Install 16-inch AWWA C900 DR-18 PVC Pipe (Open Trench Construction), all depths, including fittings, restraints as specified, thrust blocks as specified, excavation, bedding, backfill, trench surface restoration and appurtenances, complete in place as detailed and specified.	LF	3,068	\$ 140.00	\$ 429,520.00	\$ 64.00	\$ 196,352.00	\$ 95.00	\$ 291,460.00
8	Furnish and Install Restrained 16-inch AWWA C900 DR-18 PVC Pipe inside Steel Casing Pipe, including fittings, restraints, casing spacers, end seal caps, dewatering, and appurtenances, as shown in Detail C, Sheet CZ-3, complete in place as detailed and specified.	LF	569	\$ 160.00	\$ 91,040.00	\$ 104.00	\$ 59,176.00	\$ 69.00	\$ 39,261.00
9	Furnish and Install 16-inch Gate Valve and associated appurtenances, as shown in Detail C on Sheet CZ-1, complete in place as detailed and specified.	EA	5	\$ 9,000.00	\$ 45,000.00	\$ 9,500.00	\$ 47,500.00	\$ 10,900.00	\$ 54,500.00
10	Furnish and Install Pressure Monitoring Station adjacent to Gate Valve, including appurtenances, as shown in Detail E on Sheet CZ-2, complete in place as detailed and specified.	EA	1	\$ 2,000.00	\$ 2,000.00	\$ 2,200.00	\$ 2,200.00	\$ 1,300.00	\$ 1,300.00
11	Connect new 16-inch Water Pipe to existing 24-inch mechanical joint tee, including fittings, restraints, adapters, 24" diameter pipe, excavation, bedding, backfill, and appurtenances, complete in place as detailed and specified.	LS	1	\$ 19,000.00	\$ 19,000.00	\$ 4,000.00	\$ 4,000.00	\$ 4,100.00	\$ 4,100.00
12	Furnish and Install 2-inch Combination Air/Vacuum Valve, and associated appurtenances, as shown in Detail A on Sheet CZ-3, complete in place as detailed and specified.	LS	5	\$ 10,000.00	\$ 50,000.00	\$ 10,000.00	\$ 50,000.00	\$ 9,550.00	\$ 47,750.00
13	Furnish and Install 16-inch by 16-inch Tapping Sleeve and 16-inch Tapping Gate Valve, including line tap, excavation, bedding, backfill and associated appurtenances, as shown in Detail D on Sheet CZ-1, complete in place as detailed and specified.	EA	1	\$ 30,000.00	\$ 30,000.00	\$ 24,000.00	\$ 24,000.00	\$ 28,460.00	\$ 28,460.00
14	Furnish and Install Fire Hydrant, tee, 6-inch gate valve, 6-inch feed pipe (all lengths), restraints, thrust blocks, excavation, bedding, backfill, and associated appurtenances, as shown in Detail B on Sheet CZ-2, complete in place as detailed and specified.	EA	3	\$ 8,000.00	\$ 24,000.00	\$ 5,400.00	\$ 16,200.00	\$ 6,600.00	\$ 19,800.00
15	Furnish and Install 28-inch Inside Diameter Steel Casing Pipe (Jack and Bore Construction), ½-inch wall thickness, including bore pits, backfill and appurtenances, complete in place as detailed and specified.	LF	569	\$ 500.00	\$ 284,500.00	\$ 1,136.70	\$ 646,782.30	\$ 1,318.00	\$ 749,942.00
16	Pressure Testing and Leakage Testing of Water Pipelines, complete in place as detailed and specified.	LS	1	\$ 10,000.00	\$ 10,000.00	\$ 5,000.00	\$ 5,000.00	\$ 26,000.00	\$ 26,000.00
17	Disinfection of Water Pipelines, complete in place as detailed and specified.	LS	1	\$ 10,000.00	\$ 10,000.00	\$ 8,000.00	\$ 8,000.00	\$ 5,800.00	\$ 5,800.00
18	Provide Re-vegetation by sodding, complete in place as detailed and specified.	SF	25,160	\$ 1.25	\$ 31,450.00	\$ 0.40	\$ 10,064.00	\$ 0.60	\$ 15,096.00
19	Provide Re-vegetation by Hydros seeding (hydromulch), complete in place as detailed and specified.	SY	7,300	\$ 1.25	\$ 9,125.00	\$ 0.40	\$ 2,920.00	\$ 0.40	\$ 2,920.00
20	Well Pointing, as authorized by the Engineer. Furnish, install, and remove well points for dewatering including materials, labor, equipment and all appurtenances, per vertical linear foot. Unit price shall include surface piping as needed to discharge water, no separate pay. No separate pay will be made for other dewatering approaches. Complete in place as detailed and specified.	LF	1,500	\$ 25.00	\$ 37,500.00	\$ 25.00	\$ 37,500.00	\$ 25.00	\$ 37,500.00
21	Extra Excavation (Machine), complete in place.	CY	100	\$ 10.00	\$ 1,000.00	\$ 18.00	\$ 1,800.00	\$ 15.00	\$ 1,500.00
22	Extra Excavation (Hand), complete in place.	CY	50	\$ 75.00	\$ 3,750.00	\$ 25.00	\$ 1,250.00	\$ 25.00	\$ 1,250.00
23	Extra Cement Stabilized Sand, compacted, complete in place.	CY	20	\$ 50.00	\$ 1,000.00	\$ 45.00	\$ 900.00	\$ 35.00	\$ 700.00
24	Extra Labor, Skilled.	MH	20	\$ 50.00	\$ 1,000.00	\$ 36.70	\$ 734.00	\$ 31.00	\$ 620.00
25	Extra Labor, Unskilled.	MH	20	\$ 35.00	\$ 700.00	\$ 26.70	\$ 534.00	\$ 25.00	\$ 500.00
26	Extra ductile iron fittings, complete in place	Tons	4	\$ 1.00	\$ 4.00	\$ 700.00	\$ 2,800.00	\$ 3,155.00	\$ 12,620.00
TOTAL AMOUNT BID					\$ 1,185,429.00		\$ 1,367,902.70		\$ 1,569,824.00