

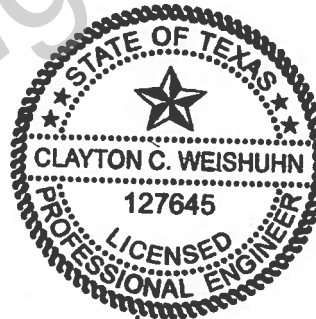
BID TABULATION FOR:

CONSTRUCTION OF THE WATER, SANITARY SEWER AND DRAINAGE FACILITIES
TO SERVE KATY LAKES SECTION 5
HARRIS COUNTY MUNICIPAL UTILITY DISTRICT NO. 538
CITY OF HOUSTON E.T.J., HARRIS COUNTY, TEXAS
JANUARY 28, 2021
LJA ENGINEERING, INC.
A.OTTO
JANUARY 28, 2021
2636-0150D (9.2)

BID OPENING DATE:
BID OPENING LOCATION:
TABULATION BY:
TABULATION DATE:
LJA JOB NO.

BIDDER'S NAME	TOTAL AMOUNT BID	BID INCLUDING ALTERNATE DRAINAGE FACILITIES ITEMS
1) TEXAS KB UTILITIES, LLC	\$1,967,000.00	\$1,860,212.30
2) PRINCIPAL SERVICES, LTD	\$2,124,999.00	\$2,075,443.00
3) BLAZEY CONSTRUCTION SERVICES LLC	\$2,241,054.37	\$2,151,202.58
4) CE BARKER, LTD	\$2,274,535.54	\$2,225,828.10
5) R CONSTRUCTION CIVIL	\$2,380,219.10	\$2,331,781.10
6) HARRIS CONSTRUCTION COMPANY, LTD.	\$2,714,253.75	\$2,670,413.75
7) TRIPLE B SERVICES, LLP	\$3,263,053.00	\$3,239,733.00

CALENDAR DAYS 65/110



1/28/21


I, Clayton Weishuhn, PE, hereby certify these bid tabulations to be true and correct.

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ITEM	DESCRIPTION	UNIT	QTY	1) TEXAS KB UTILITIES, LLC		2) PRINCIPAL SERVICES, LTD		3) BLAZEY CONSTRUCTION SERVICES LLC	
				UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST
WATER ITEMS									
1	12" PVC WATER LINE, C-900, DR 18, CLASS 235, INCLUDES FITTINGS, BEDDING AND BACKFILL, ALL DEPTHS, COMPLETE IN PLACE	LF	906	\$37.95	\$34,382.70	\$33.00	\$29,898.00	\$32.21	\$29,182.26
2	12" PVC WATER LINE, C-900, DR 18, CLASS 235, WITH RESTRAINED JOINTS, INCLUDES FITTINGS, BEDDING AND BACKFILL, ALL DEPTHS, COMPLETE IN PLACE	LF	1542	\$39.90	\$61,525.80	\$53.00	\$81,726.00	\$61.12	\$94,247.04
3	8" PVC WATER LINE, C-900, DR 18, CLASS 235, INCLUDES FITTINGS, BEDDING AND BACKFILL, ALL DEPTHS, COMPLETE IN PLACE	LF	1514	\$22.60	\$34,216.40	\$21.00	\$31,794.00	\$19.54	\$29,583.56
4	8" PVC WATER LINE, C-900, DR 18, CLASS 235, WITH RESTRAINED JOINTS, INCLUDES FITTINGS, BEDDING AND BACKFILL, ALL DEPTHS, COMPLETE IN PLACE	LF	699	\$27.15	\$18,977.85	\$32.00	\$22,368.00	\$35.04	\$24,492.96
5	6" PVC WATER LINE, C-900, DR 18, CLASS 235, INCLUDES FITTINGS, BEDDING AND BACKFILL, ALL DEPTHS, COMPLETE IN PLACE	LF	779	\$18.95	\$14,762.05	\$17.00	\$13,243.00	\$15.48	\$12,058.92
6	6" PVC WATER LINE, C-900, DR 18, CLASS 235, WITH RESTRAINED JOINTS, INCLUDES FITTINGS, BEDDING AND BACKFILL, ALL DEPTHS, COMPLETE IN PLACE	LF	171	\$22.25	\$3,804.75	\$30.00	\$5,130.00	\$29.04	\$4,965.84
7	6" PVC WATER LINE, C-900, DR 14, CLASS 305, WITH RESTRAINED JOINTS, INCLUDES FITTINGS, BEDDING AND BACKFILL, ALL DEPTHS, COMPLETE IN PLACE	LF	26	\$26.70	\$694.20	\$27.00	\$702.00	\$22.72	\$590.72
8	4" PVC WATER LINE, C-900, DR 18, CLASS 235, INCLUDES FITTINGS, BEDDING AND BACKFILL, ALL DEPTHS, COMPLETE IN PLACE	LF	536	\$15.30	\$8,200.80	\$14.00	\$7,504.00	\$12.43	\$6,662.48
9	FIRE HYDRANT UNIT, ALL DEPTHS, INCLUDES APPROPRIATE TEE, FITTINGS, 6" GATE VALVE AND BOX, AND LEAD PIPE, COMPLETE IN PLACE	EA	11	\$3,105.00	\$34,155.00	\$4,000.00	\$44,000.00	\$3,066.41	\$33,730.51
10	12" AWWA GATE VALVE AND BOX, COMPLETE IN PLACE	EA	9	\$1,910.00	\$17,190.00	\$2,000.00	\$18,000.00	\$1,811.58	\$16,304.22
11	8" AWWA GATE VALVE AND BOX, COMPLETE IN PLACE	EA	11	\$1,030.00	\$11,330.00	\$1,000.00	\$11,000.00	\$921.04	\$10,131.44
12	6" AWWA GATE VALVE AND BOX, COMPLETE IN PLACE	EA	4	\$735.00	\$2,940.00	\$700.00	\$2,800.00	\$636.58	\$2,546.32
13	WET CONNECTION OF PROPOSED 8" WATER LINE TO EXISTING WATER LINE INCLUDES FITTINGS, ALL ADAPTERS AND CONNECTORS NECESSARY, AND REMOVAL OF EXISTING PLUG & CLAMP AND 2" BLOW-OFF VALVE AND BOX, (ALL DEPTHS), COMPLETE IN PLACE	EA	1	\$365.00	\$365.00	\$360.00	\$360.00	\$203.68	\$203.68
14	WET CONNECTION OF PROPOSED 12" WATER LINE TO EXISTING WATER LINE INCLUDES FITTINGS, ALL ADAPTERS AND CONNECTORS NECESSARY, AND REMOVAL OF EXISTING PLUG & CLAMP AND 2" BLOW-OFF VALVE AND BOX, (ALL DEPTHS), COMPLETE IN PLACE	EA	1	\$365.00	\$365.00	\$445.00	\$445.00	\$274.75	\$274.75
15	12" X 12" TAPPING SLEEVE AND VALVE & BOX, COMPLETE IN PLACE	EA	2	\$6,210.00	\$12,420.00	\$8,700.00	\$17,400.00	\$8,036.54	\$16,073.08
16	12" X 8" TAPPING SLEEVE AND VALVE & BOX, COMPLETE IN PLACE	EA	1	\$3,830.00	\$3,830.00	\$4,500.00	\$4,500.00	\$4,288.65	\$4,288.65
17	REMOVE AND DISPOSE OFFSITE OF EXISTING 12" WATER LINE, ALL DEPTHS, COMPLETE IN PLACE (TO BE COMPLETED AFTER WATER LINE ALONG KINGELM LAKE DRIVE AND BELLEAU LAKE DRIVE IS PUT INTO SERVICE)	LF	812	\$8.80	\$7,145.60	\$5.00	\$4,060.00	\$5.35	\$4,344.20
18	REMOVE AND RELOCATE EXISTING FIRE HYDRANT, COMPLETE IN PLACE	EA	1	\$3,365.00	\$3,365.00	\$1,500.00	\$1,500.00	\$1,204.68	\$1,204.68
19	12" PLUG & CLAMP WITH 2" BLOW-OFF VALVE AND BOX ASSEMBLY, COMPLETE IN PLACE	EA	3	\$750.00	\$2,250.00	\$1,050.00	\$3,150.00	\$442.85	\$1,328.55
20	8" PLUG & CLAMP WITH 2" BLOW-OFF VALVE AND BOX ASSEMBLY, COMPLETE IN PLACE	EA	2	\$750.00	\$1,500.00	\$980.00	\$1,960.00	\$383.12	\$766.24

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ITEM	DESCRIPTION	UNIT	QTY	1) TEXAS KB UTILITIES, LLC		2) PRINCIPAL SERVICES, LTD		3) BLAZEY CONSTRUCTION SERVICES LLC	
				UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST
21	4" PLUG & CLAMP WITH 2" BLOW-OFF VALVE AND BOX ASSEMBLY, COMPLETE IN PLACE	EA	3	\$750.00	\$2,250.00	\$930.00	\$2,790.00	\$364.16	\$1,092.48
22	ADJUST EXISTING FIRE HYDRANT ASSEMBLY TO PROPOSED GRADE, COMPLETE IN PLACE	EA	3	\$3,365.00	\$10,095.00	\$1,000.00	\$3,000.00	\$642.50	\$1,927.50
23	WET AUGER FOR 12" WATER LINE, INCLUDES BORE PITS, ALL DEPTHS, COMPLETE IN PLACE	LF	20	\$119.05	\$2,381.00	\$100.00	\$2,000.00	\$220.00	\$4,400.00
24	TRENCH SAFETY SYSTEM, ALL SIZES AND DEPTHS, COMPLETE IN PLACE	LF	6153	\$0.10	\$615.30	\$0.10	\$615.30	\$0.21	\$1,292.13
25	DEWATERING FOR WATER LINE, ALL SIZES, ALL DEPTHS (AS DIRECTED BY ENGINEER), COMPLETE IN PLACE	LF	100	\$0.01	\$1.00	\$25.00	\$2,500.00	\$25.00	\$2,500.00
26	UTILITY SPOILS, INCLUDES HAULING EXCAVATED MATERIAL ON-SITE, STRIPPING, STOCKPILE OF STRIPPINGS, PLACEMENT AND COMPACTION TO 95% STANDARD PROCTOR DENSITY, WITH MAXIMUM 8" LIFTS, FINAL GRADING, AND REAPPLICATION OF STRIPPINGS, COMPLETE IN PLACE	LS	1	\$7,245.00	\$7,245.00	\$2,307.00	\$2,307.00	\$3,872.10	\$3,872.10
27	ADDITIONAL DUCTILE IRON FITTINGS, ALL DEPTHS, COMPLETE IN PLACE	TON	1	\$1.00	\$1.00	\$1.00	\$1.00	\$1,070.83	\$1,070.83
28	PRESSURE TEST AND CHLORINATE PROP. 12" WATER LINE ALONG KINGELM LAKE DRIVE AND BELLEAU LAKE DRIVE PRIOR TO SHUTTING OFF ANY OTHER WATER LINE. RETESTING AND CHLORINATION MAY BE NEEDED DURING STAGE 2 CONSTRUCTION, NO SEPARATE PAY, COMPLETE IN PLACE	LS	1	\$520.00	\$520.00	\$500.00	\$500.00	\$6,588.79	\$6,588.79
WATER ITEMS SUBTOTAL:					\$296,528.45		\$315,253.30		\$315,723.93
SANITARY SEWER ITEMS									
1	8" PVC SEWER PIPE, ASTM D-2241, SDR 26, 0'-8' CUT, TO INCLUDE BEDDING AND BACKFILL, COMPLETE IN PLACE	LF	1588	\$39.40	\$62,567.20	\$28.00	\$44,464.00	\$28.34	\$45,003.92
2	8" PVC SEWER PIPE, ASTM D-2241, SDR 26, 8'-12' CUT, TO INCLUDE BEDDING AND BACKFILL, COMPLETE IN PLACE	LF	1387	\$39.40	\$54,647.80	\$29.00	\$40,223.00	\$32.67	\$45,313.29
3	8" PVC SEWER PIPE, AWWA C-900, DR 18, 12'-16' CUT, TO INCLUDE BEDDING AND BACKFILL, COMPLETE IN PLACE	LF	2014	\$42.95	\$86,501.30	\$34.00	\$68,476.00	\$44.71	\$90,045.94
4	8" PVC SEWER PIPE, AWWA C-900, DR 18, 16'-20' CUT, TO INCLUDE BEDDING AND BACKFILL, COMPLETE IN PLACE	LF	193	\$42.95	\$8,289.35	\$42.00	\$8,106.00	\$83.66	\$16,146.38
5	10" PVC SEWER PIPE, AWWA C-900, DR 18, 12'-16' CUT, TO INCLUDE BEDDING AND BACKFILL, COMPLETE IN PLACE	LF	74	\$66.20	\$4,898.80	\$39.00	\$2,886.00	\$45.02	\$3,331.48
6	10" PVC SEWER PIPE, AWWA C-900, DR 18, 16'-20' CUT, TO INCLUDE BEDDING AND BACKFILL, COMPLETE IN PLACE	LF	840	\$66.20	\$55,608.00	\$47.00	\$39,480.00	\$88.76	\$74,558.40
7	10" PVC SEWER PIPE, AWWA C-900, DR 18, 20'-24' CUT, TO INCLUDE BEDDING AND BACKFILL, COMPLETE IN PLACE	LF	212	\$66.20	\$14,034.40	\$80.00	\$16,960.00	\$110.40	\$23,404.80
8	STANDARD 4' DIAMETER SANITARY SEWER MANHOLE, (0' - 8' DEPTH), INCLUDES ADJUSTMENTS, COMPLETE IN PLACE	EA	53	\$1,560.00	\$82,680.00	\$3,500.00	\$185,500.00	\$2,246.22	\$119,049.66
9	EXTRA VERTICAL DEPTH FOR 4' DIAMETER SANITARY SEWER MANHOLE (OVER 8' DEPTH), COMPLETE IN PLACE	VF	231	\$113.85	\$26,299.35	\$200.00	\$46,200.00	\$101.70	\$23,492.70
10	STANDARD SANITARY SEWER DROP STRUCTURE, ALL SIZES, (0' - 2' DROP), COMPLETE IN PLACE	EA	5	\$920.00	\$4,600.00	\$800.00	\$4,000.00	\$609.93	\$3,049.65
11	EXTRA DEPTH ON SANITARY SEWER DROP, (OVER 2' OF DEPTH), COMPLETE IN PLACE	VF	17	\$20.70	\$351.90	\$35.00	\$595.00	\$13.77	\$234.09

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				UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST
12	LONG SIDE DOUBLE OR SINGLE 6" PVC PIPE SERVICE LEAD, ASTM D-2241, SDR 26, ALL DEPTHS, INCLUDES PIPE, CEMENT STABILIZED SAND BACKFILL, RISER, WYE, PLUG, MARKER, AND ANY NECESSARY FITTINGS, COMPLETE IN PLACE	EA	31	\$2,618.00	\$81,158.00	\$1,700.00	\$52,700.00	\$2,231.51	\$69,176.81
13	LONG SIDE DOUBLE OR SINGLE 8" PVC PIPE SERVICE LEAD, ASTM D-2241, SDR 26, ALL DEPTHS, INCLUDES PIPE, CEMENT STABILIZED SAND BACKFILL, RISER, WYE, PLUG, MARKER, AND ANY NECESSARY FITTINGS, COMPLETE IN PLACE	EA	3	\$4,210.00	\$12,630.00	\$2,240.00	\$6,720.00	\$2,719.39	\$8,158.17
14	SHORT SIDE DOUBLE OR SINGLE 6" PVC PIPE SERVICE LEAD, ASTM D-2241, SDR 26, ALL DEPTHS, INCLUDES PIPE, CEMENT STABILIZED SAND BACKFILL, RISER, WYE, PLUG, MARKER, AND ANY NECESSARY FITTINGS, COMPLETE IN PLACE	EA	50	\$1,200.00	\$60,000.00	\$1,150.00	\$57,500.00	\$632.71	\$31,635.50
15	SHORT SIDE DOUBLE OR SINGLE 6" PVC PIPE SERVICE LEAD, ASTM D-2241, SDR 26, ALL DEPTHS, INCLUDES PIPE, TIE INTO EXISTING SANITARY SEWER, CEMENT STABILIZED SAND BACKFILL, RISER, WYE, PLUG, MARKER, AND ANY NECESSARY FITTINGS, COMPLETE IN PLACE	EA	3	\$1,480.00	\$4,440.00	\$1,035.00	\$3,105.00	\$609.24	\$1,827.72
16	LONG SIDE DOUBLE OR SINGLE 6" PVC PIPE SERVICE LEAD, ASTM D-2241, SDR 26, ALL DEPTHS, INCLUDES PIPE, TIE INTO EXISTING SANITARY SEWER, CEMENT STABILIZED SAND BACKFILL, RISER, WYE, PLUG, MARKER, AND ANY NECESSARY FITTINGS, COMPLETE IN PLACE	EA	1	\$7,560.00	\$7,560.00	\$1,660.00	\$1,660.00	\$2,132.47	\$2,132.47
17	BYPASS PUMPING EXISTING SANITARY SEWER, (TO BE USED ONLY AS DIRECTED BY THE ENGINEER), COMPLETE IN PLACE	LS	1	\$1,500.00	\$1,500.00	\$1,500.00	\$1,500.00	\$1,606.24	\$1,606.24
18	STANDARD 6" SANITARY SEWER STACK, ALL DEPTHS, COMPLETE IN PLACE	EA	67	\$350.00	\$23,450.00	\$350.00	\$23,450.00	\$477.27	\$31,977.09
19	10" SANITARY SEWER PLUG, ALL DEPTHS, COMPLETE IN PLACE	EA	1	\$125.00	\$125.00	\$100.00	\$100.00	\$167.24	\$167.24
20	8" SANITARY SEWER PLUG, ALL DEPTHS, COMPLETE IN PLACE	EA	2	\$70.00	\$140.00	\$105.00	\$210.00	\$210.15	\$420.30
21	ADJUST EXISTING SANITARY SEWER MANHOLE TO FINAL GRADE, COMPLETE IN PLACE	EA	6	\$465.00	\$2,790.00	\$100.00	\$600.00	\$25.00	\$150.00
22	CORE INTO EXISTING SANITARY SEWER MANHOLE AND CONNECT PROPOSED 8" SANITARY SEWER LINE, ALL DEPTHS, COMPLETE IN PLACE	EA	2	\$1,140.00	\$2,280.00	\$500.00	\$1,000.00	\$1,338.53	\$2,677.06
23	CORE INTO EXISTING SANITARY SEWER MANHOLE AND CONNECT PROPOSED 10" SANITARY SEWER LINE, ALL DEPTHS, COMPLETE IN PLACE	EA	1	\$1,140.00	\$1,140.00	\$500.00	\$500.00	\$1,351.92	\$1,351.92
24	REMOVE AND OFFSITE DISPOSAL OF EXISTING 8" PLUG AND CONNECT PROPOSED 8" SANITARY SEWER, ALL DEPTHS, COMPLETE IN PLACE	EA	1	\$365.00	\$365.00	\$100.00	\$100.00	\$251.43	\$251.43
25	WET AUGER FOR 8" SANITARY SEWER, INCLUDES BORE PITS, ALL DEPTHS, COMPLETE IN PLACE	LF	20	\$108.70	\$2,174.00	\$100.00	\$2,000.00	\$48.19	\$963.80
26	WET AUGER FOR 10" SANITARY SEWER, INCLUDES BORE PITS, ALL DEPTHS, COMPLETE IN PLACE	LF	50	\$73.50	\$3,675.00	\$100.00	\$5,000.00	\$58.90	\$2,945.00
27	TRENCH SAFETY SYSTEM FOR SANITARY SEWER, ALL DEPTHS AND SIZES, COMPLETE IN PLACE	LF	8620	\$0.10	\$862.00	\$0.10	\$862.00	\$0.21	\$1,810.20
28	DEWATERING FOR SANITARY SEWER, ALL SIZES, ALL DEPTHS, (AS DIRECTED BY ENGINEER), COMPLETE IN PLACE	LF	3333	\$0.01	\$33.33	\$1.00	\$3,333.00	\$25.00	\$83,325.00
29	ADDITIONAL COST FOR SANITARY SEWER BEDDING FOR UNSATISFACTORY SOIL CONDITIONS (AS DIRECTED BY ENGINEER), COMPLETE IN PLACE	LF	3333	\$0.01	\$33.33	\$0.10	\$333.30	\$15.00	\$49,995.00
30	VIDEO INSPECTION OF SANITARY SEWER, ALL SIZES, INCLUDES DIGITAL COPY, COMPLETE IN PLACE	LF	6308	\$0.50	\$3,154.00	\$2.00	\$12,616.00	\$2.30	\$14,508.40

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31	UTILITY SPOILS, INCLUDES HAULING EXCAVATED MATERIAL ON-SITE, STRIPPING, STOCKPILE OF STRIPPINGS, PLACEMENT AND COMPACTION TO 95% STANDARD PROCTOR DENSITY, WITH MAXIMUM 8" LIFTS, FINAL GRADING, AND REAPPLICATION OF STRIPPINGS, COMPLETE IN PLACE	LS	1	\$7,245.00	\$7,245.00	\$5,000.00	\$5,000.00	\$5,970.00	\$5,970.00
SANITARY SEWER ITEMS SUBTOTAL:					\$615,232.76	\$635,179.30		\$754,679.66	
DRAINAGE FACILITIES ITEMS									
1	24" RCP STORM SEWER, ASTM C-76, CLASS III, INCLUDES BEDDING AND BACKFILL, ALL DEPTHS, COMPLETE IN PLACE	LF	3685	\$48.00	\$176,880.00	\$54.00	\$198,990.00	\$50.06	\$184,471.10
2	30" RCP STORM SEWER, ASTM C-76, CLASS III, INCLUDES BEDDING AND BACKFILL, ALL DEPTHS, COMPLETE IN PLACE	LF	340	\$54.90	\$18,666.00	\$65.00	\$22,100.00	\$59.80	\$20,332.00
3	36" RCP STORM SEWER, ASTM C-76, CLASS III, INCLUDES BEDDING AND BACKFILL, ALL DEPTHS, COMPLETE IN PLACE	LF	1176	\$74.80	\$87,964.80	\$91.00	\$107,016.00	\$79.26	\$93,209.76
4	42" RCP STORM SEWER, ASTM C-76, CLASS III, INCLUDES BEDDING AND BACKFILL, ALL DEPTHS, COMPLETE IN PLACE	LF	489	\$97.90	\$47,873.10	\$121.00	\$59,169.00	\$103.57	\$50,645.73
5	54" RCP STORM SEWER, ASTM C-76, CLASS III, INCLUDES BEDDING AND BACKFILL, ALL DEPTHS, COMPLETE IN PLACE	LF	152	\$161.15	\$24,494.80	\$188.00	\$28,576.00	\$169.89	\$25,823.28
6	54" CORRUGATED GALVANIZED METAL PIPE, INCLUDES BEDDING AND BACKFILL, ALL DEPTHS, COMPLETE IN PLACE	LF	92	\$128.85	\$11,854.20	\$190.00	\$17,480.00	\$155.27	\$14,284.84
7	60" RCP STORM SEWER, ASTM C-76, CLASS III, INCLUDES BEDDING AND BACKFILL, ALL DEPTHS, COMPLETE IN PLACE	LF	310	\$186.60	\$57,846.00	\$228.00	\$70,680.00	\$196.78	\$61,001.80
8	6' X 3' REINFORCED CONCRETE BOX CULVERT, ASTM C-1433, INCLUDES BEDDING AND BACKFILL, ALL DEPTHS, COMPLETE IN PLACE	LF	638	\$271.65	\$173,312.70	\$305.00	\$194,590.00	\$317.36	\$202,475.68
9	6' X 3' REINFORCED CONCRETE BOX CULVERT FROM SAFETY END TREATMENT TO JUNCTION BOX J-1, ASTM C-1433, INCLUDES BEDDING AND BACKFILL, ALL DEPTHS, COMPLETE IN PLACE	LF	12	\$271.65	\$3,259.80	\$305.00	\$3,660.00	\$651.16	\$7,813.92
10	STAGE I - REINFORCED CONCRETE "B-B" INLET, (5' OPENING), ALL DEPTHS, INCLUDES INLET PROTECTION BARRIER FOR STAGE I INLET, COMPLETE IN PLACE	EA	41	\$900.00	\$36,900.00	\$965.00	\$39,565.00	\$1,092.24	\$44,781.84
11	STAGE II - REINFORCED CONCRETE "B-B" INLET, (5' OPENING), ALL DEPTHS, COMPLETE IN PLACE	EA	41	\$1,745.00	\$71,545.00	\$1,700.00	\$69,700.00	\$1,202.32	\$49,295.12
12	STAGE I - MODIFIED TYPE REINFORCED CONCRETE "C-1" INLET, (10' MINIMUM INSIDE OPENING), ALL DEPTHS, INCLUDES INLET PROTECTION BARRIER FOR STAGE I INLET, COMPLETE IN PLACE	EA	1	\$735.00	\$735.00	\$1,000.00	\$1,000.00	\$1,193.97	\$1,193.97
13	STAGE II - MODIFIED REINFORCED CONCRETE TYPE "C-1" INLET, (10' MINIMUM INSIDE OPENING), ALL DEPTHS, COMPLETE IN PLACE	EA	1	\$1,865.00	\$1,865.00	\$1,800.00	\$1,800.00	\$1,406.40	\$1,406.40
14	REINFORCED CONCRETE TYPE "E" INLET, ALL SIDES OPEN, ALL DEPTHS, COMPLETE IN PLACE	EA	1	\$2,900.00	\$2,900.00	\$2,000.00	\$2,000.00	\$2,184.48	\$2,184.48
15	REINFORCED 8'X8' CONCRETE STORM SEWER JUNCTION BOX WITH REINFORCED CONCRETE TYPE "C" MANHOLE TOP, INCLUDES ADJUSTMENTS, ALL DEPTHS, COMPLETE IN PLACE	EA	5	\$15,215.00	\$76,075.00	\$8,000.00	\$40,000.00	\$7,265.55	\$36,327.75
16	REINFORCED 8'X8' CONCRETE STORM SEWER JUNCTION BOX J-1 WITH REINFORCED CONCRETE TYPE "C" MANHOLE TOP, INCLUDES ADJUSTMENTS, ALL DEPTHS, COMPLETE IN PLACE	EA	1	\$15,215.00	\$15,215.00	\$8,500.00	\$8,500.00	\$6,828.65	\$6,828.65

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CONSTRUCTION OF THE WATER, SANITARY SEWER AND DRAINAGE FACILITIES
 TO SERVE KATY LAKES SECTION 5
 HARRIS COUNTY MUNICIPAL UTILITY DISTRICT NO. 538
 CITY OF HOUSTON E.T.J., HARRIS COUNTY, TEXAS
 JANUARY 28, 2021
 LJA ENGINEERING, INC.
 A.OTTO
 JANUARY 28, 2021
 2636-0150D (9.2)

ITEM	DESCRIPTION	UNIT	QTY	1) TEXAS KB UTILITIES, LLC		2) PRINCIPAL SERVICES, LTD		3) BLAZEY CONSTRUCTION SERVICES LLC	
				UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST
17	REINFORCED CONCRETE TYPE "C" MANHOLE FOR 42" STORM SEWER AND SMALLER, INCLUDES ADJUSTMENTS, ALL DEPTHS, COMPLETE IN PLACE	EA	40	\$1,570.00	\$62,800.00	\$2,300.00	\$92,000.00	\$2,484.31	\$99,372.40
18	REINFORCED CONCRETE TYPE "C" MANHOLE FOR 48" STORM SEWER AND LARGER, INCLUDES ADJUSTMENTS, ALL DEPTHS, COMPLETE IN PLACE	EA	7	\$2,570.00	\$17,990.00	\$4,000.00	\$28,000.00	\$3,467.33	\$24,271.31
19	REINFORCED CONCRETE TYPE "C" MANHOLE FOR 48" STORM SEWER AND LARGER WITH TYPE "E" INLET TOP, INCLUDES ADJUSTMENTS, ALL DEPTHS, COMPLETE IN PLACE	EA	1	\$3,780.00	\$3,780.00	\$3,300.00	\$3,300.00	\$2,436.13	\$2,436.13
20	8" BRICK PLUG FOR 24" RCP STORM SEWER, ALL DEPTHS, COMPLETE IN PLACE	EA	3	\$235.00	\$705.00	\$250.00	\$750.00	\$128.50	\$385.50
21	8" BRICK PLUG FOR 30" RCP STORM SEWER, ALL DEPTHS, COMPLETE IN PLACE	EA	1	\$290.00	\$290.00	\$250.00	\$250.00	\$139.21	\$139.21
22	REMOVE AND DISPOSE OF EXISTING 8" BRICK WALL PLUG AND CONNECT 24" STORM SEWER INTO EXISTING STORM SEWER SYSTEM, COMPLETE IN PLACE	EA	1	\$365.00	\$365.00	\$500.00	\$500.00	\$160.62	\$160.62
23	PLUG AND DRAIN EXISTING SUBMERGED 24" RCP STORM SEWER TO ACCOMMODATE CONSTRUCTION OF THE PROPOSED 24" RCP STORM SEWER CONNECTION, COMPLETE IN PLACE	LS	1	\$520.00	\$520.00	\$2,500.00	\$2,500.00	\$2,569.98	\$2,569.98
24	TRENCH SAFETY SYSTEM FOR STORM SEWER, ALL SIZES, ALL DEPTHS, COMPLETE IN PLACE	LF	6894	\$0.10	\$689.40	\$0.10	\$689.40	\$0.21	\$1,447.74
25	DEMUCK AND FILL EXISTING TEMPORARY OVERFLOW SWALE, 4' BOTTOM, 3:1 SIDE SLOPES, UPON COMPLETION OF 6'X3' RCB STORM SEWER CONSTRUCTION, COMPLETE IN PLACE	LS	1	\$1,555.00	\$1,555.00	\$1,500.00	\$1,500.00	\$856.66	\$856.66
26	DEMUCK AND FILL EXISTING TEMPORARY V-BOTTOM SWALE WITHIN SECTION 5 ROW, 3:1 SIDE SLOPES, COMPLETE IN PLACE	LS	1	\$1,555.00	\$1,555.00	\$1,500.00	\$1,500.00	\$1,070.83	\$1,070.83
27	DEWATERING FOR STORM SEWER, ALL SIZES, ALL DEPTHS, (AS DIRECTED BY ENGINEER), COMPLETE IN PLACE	LF	402	\$0.01	\$4.02	\$1.00	\$402.00	\$25.00	\$10,050.00
28	ADDITIONAL COST FOR STORM SEWER BEDDING FOR UNSATISFACTORY SOIL CONDITIONS (AS DIRECTED BY ENGINEER), COMPLETE IN PLACE	LF	402	\$0.01	\$4.02	\$1.00	\$402.00	\$15.00	\$6,030.00
29	CONTRACTOR SHALL ADJUST STORM SEWER MANHOLE TO FINAL GRADE, COMPLETE IN PLACE	EA	2	\$465.00	\$930.00	\$1,000.00	\$2,000.00	\$160.62	\$321.24
30	UTILITY SPOILS, INCLUDES HAULING EXCAVATED MATERIAL ON-SITE, STRIPPING, STOCKPILE OF STRIPPINGS, PLACEMENT AND COMPACTION TO 95% STANDARD PROCTOR DENSITY, WITH MAXIMUM 8" LIFTS, FINAL GRADING, AND REAPPLICATION OF STRIPPINGS, COMPLETE IN PLACE	LS	1	\$7,245.00	\$7,245.00	\$7,000.00	\$7,000.00	\$10,022.92	\$10,022.92
31	REGRADE EXISTING BACK OF LOT, V-BOTTOM DRAINAGE SWALES TO PROPOSED TYPE "E" INLET/24" SAFETY END TREATMENT, COMPLETE IN PLACE	LF	30	\$31.05	\$931.50	\$42.00	\$1,260.00	\$5.35	\$160.50
32	REGRADE EXISTING 4' BOTTOM OVERFLOW SWALE TO PROPOSED 6'X3' SAFETY END TREATMENT, COMPLETE IN PLACE	LF	62	\$25.90	\$1,605.80	\$25.00	\$1,550.00	\$6.42	\$398.04
33	REGRADE EXISTING V-BOTTOM SWALE WITHIN DEWBERRY ISLAND DRIVE TO EXISTING LAKE 4, COMPLETE IN PLACE	LF	1011	\$3.10	\$3,134.10	\$5.00	\$5,055.00	\$3.21	\$3,245.31
34	5" REINFORCED CONCRETE SLOPE PAVEMENT WITH TOE WALLS ALL AROUND, COMPLETE IN PLACE	SY	40	\$105.00	\$4,200.00	\$105.00	\$4,200.00	\$61.04	\$2,441.60
35	6:1 SAFETY END TREATMENT FOR 24" PIPE CULVERT, INCLUDES PIPE RUNNERS, COMPLETE IN PLACE	EA	1	\$1,580.00	\$1,580.00	\$2,400.00	\$2,400.00	\$1,809.69	\$1,809.69
36	6:1 SAFETY END TREATMENT FOR 6' X 3' BOX CULVERT, INCLUDES PIPE RUNNERS, COMPLETE IN PLACE	EA	1	\$3,830.00	\$3,830.00	\$4,050.00	\$4,050.00	\$9,102.01	\$9,102.01

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 TO SERVE KATY LAKES SECTION 5
 HARRIS COUNTY MUNICIPAL UTILITY DISTRICT NO. 538
 CITY OF HOUSTON E.T.J., HARRIS COUNTY, TEXAS
 JANUARY 28, 2021
 LJA ENGINEERING, INC.
 A.OTTO
 JANUARY 28, 2021
 2636-0150D (9.2)

ITEM	DESCRIPTION	UNIT	QTY	1) TEXAS KB UTILITIES, LLC		2) PRINCIPAL SERVICES, LTD		3) BLAZEY CONSTRUCTION SERVICES LLC	
				UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST
37	CONSTRUCTION AND REMOVAL OF TEMPORARY COFFER DAM FOR THE CONSTRUCTION OF STORM SEWER OUTFALL, INCLUDES DEWATERING AND ALL APPURTENANCES, ALL SIZES, ALL DEPTHS, (AS DIRECTED BY ENGINEER), COMPLETE IN PLACE	EA	3	\$1,555.00	\$4,665.00	\$2,000.00	\$6,000.00	\$6,970.00	\$20,910.00
DRAINAGE FACILITIES ITEMS SUBTOTAL:					\$925,765.24	\$1,030,134.40			\$999,278.01
SANITARY SEWER FORCE MAIN ITEMS									
1	10" PVC FORCE MAIN, C-900, DR 18, CLASS 235, ALL DEPTHS, INCLUDES FITTINGS, BEDDING AND BACKFILL, COMPLETE IN PLACE	LF	48	\$51.95	\$2,493.60	\$60.00	\$2,880.00	\$26.66	\$1,279.68
2	10" PVC FORCE MAIN, C-900, DR 18, CLASS 235, WITH RESTRAINED JOINTS, INCLUDES FITTINGS, BEDDING AND BACKFILL, ALL DEPTHS, COMPLETE IN PLACE	LF	1784	\$36.25	\$64,670.00	\$58.00	\$103,472.00	\$52.71	\$94,034.64
3	10" SANITARY SEWER PLUG AND CLAMP FOR FORCEMAIN, ALL DEPTHS, COMPLETE IN PLACE	EA	2	\$750.00	\$1,500.00	\$500.00	\$1,000.00	\$414.82	\$829.64
4	CONTRACTOR SHALL LOCATE AND EXPOSE EXISTING WATER LINE, FORCE MAIN, AND DRY UTILITIES IN CONSTRUCTION AREA, ANY DISCREPANCIES WITH THE PLANS SHALL BE REPORTED TO THE ENGINEER, COMPLETE IN PLACE	LS	1	\$1,555.00	\$1,555.00	\$500.00	\$500.00	\$1,606.24	\$1,606.24
5	FORCE MAIN AIR RELEASE VALVE WITH ISOLATION VALVE MANHOLE, INCLUDES BOX AND INFLOW PROTECTORS, COMPLETE IN PLACE	EA	1	\$8,385.00	\$8,385.00	\$9,000.00	\$9,000.00	\$24,072.23	\$24,072.23
6	WET AUGER FOR 10" FORCE MAIN, INCLUDES BORE PITS, ALL DEPTHS, COMPLETE IN PLACE	LF	32	\$81.50	\$2,608.00	\$100.00	\$3,200.00	\$64.25	\$2,056.00
7	TRENCH SAFETY SYSTEM FOR SANITARY SEWER, ALL DEPTHS AND SIZES, COMPLETE IN PLACE	LF	1800	\$0.10	\$180.00	\$0.10	\$180.00	\$0.21	\$378.00
8	UTILITY SPOILS, INCLUDES HAULING EXCAVATED MATERIAL ON-SITE, STRIPPING, STOCKPILE OF STRIPPINGS, PLACEMENT AND COMPACTION TO 95% STANDARD PROCTOR DENSITY, WITH MAXIMUM 8" LIFTS, FINAL GRADING, AND REAPPLICATION OF STRIPPINGS, COMPLETE IN PLACE	LS	1	\$7,245.00	\$7,245.00	\$5,000.00	\$5,000.00	\$1,215.00	\$1,215.00
SANITARY SEWER FORCE MAIN ITEMS SUBTOTAL:					\$88,636.60	\$125,232.00			\$125,471.43
MISCELLANEOUS ITEMS									
1	INSTALL, MAINTAIN, AND REMOVE REINFORCED FILTER FABRIC FENCE (SILT BARRIER FENCING), COMPLETE IN PLACE	LF	1000	\$1.20	\$1,200.00	\$1.50	\$1,500.00	\$1.34	\$1,340.00
2	INSTALL, MAINTAIN, AND REMOVE STABILIZED CONSTRUCTION EXIT, AND REGRADE AREA TO MATCH FINISHED GRADE, COMPLETE IN PLACE	EA	1	\$1,555.00	\$1,555.00	\$1,500.00	\$1,500.00	\$1,606.24	\$1,606.24
3	EXTRA CEMENT STABILIZED SAND BACKFILL, (1.5 SACKS PER CY), (AS DIRECTED BY ENGINEER), COMPLETE IN PLACE	CY	50	\$1.00	\$50.00	\$1.00	\$50.00	\$20.00	\$1,000.00
4	HYDROMULCH SEEDING AND FINE GRADING, INCLUDES WATERING, TO ACHIEVE 90% HOMOGENEOUS GRASS COVERAGE, (AS DIRECTED BY ENGINEER), COMPLETE IN PLACE	AC	6	\$1,555.00	\$9,330.00	\$1,000.00	\$6,000.00	\$1,927.49	\$11,564.94
5	BROADCAST SEEDING, INCLUDES FERTILIZING AND WATERING, TO ACHIEVE 90% HOMOGENEOUS GRASS COVERAGE, (AS DIRECTED BY ENGINEER), COMPLETE IN PLACE	AC	31	\$775.00	\$24,025.00	\$200.00	\$6,200.00	\$856.66	\$26,556.46
6	STORM WATER POLLUTION PREVENTION PLAN COMPLIANCE, INCLUDES GENERAL SOURCE CONTROLS AND ALL ITEMS NOT SPECIFICALLY LISTED IN THE BID PROPOSAL, COMPLETE IN PLACE	LS	1	\$1,555.00	\$1,555.00	\$1,000.00	\$1,000.00	\$669.27	\$669.27
7	INSTALL, MAINTAIN, AND REMOVE CONCRETE WASHOUT AREA, COMPLETE IN PLACE	EA	1	\$671.95	\$671.95	\$500.00	\$500.00	\$803.12	\$803.12

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 HARRIS COUNTY MUNICIPAL UTILITY DISTRICT NO. 538
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ITEM	DESCRIPTION	UNIT	QTY	1) TEXAS KB UTILITIES, LLC		2) PRINCIPAL SERVICES, LTD		3) BLAZEY CONSTRUCTION SERVICES LLC	
				UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST
8	INLET PROTECTION BARRIER FOR STAGE II INLET, COMPLETE IN PLACE	EA	49	\$50.00	\$2,450.00	\$50.00	\$2,450.00	\$48.19	\$2,361.31
MISCELLANEOUS ITEMS SUBTOTAL:					\$40,836.95	\$19,200.00			\$45,901.34
<u>ALTERNATE DRAINAGE FACILITIES ITEMS</u>									
1	60" RCP STORM SEWER, ASTM C-76, CLASS III, INCLUDES BEDDING AND BACKFILL, ALL DEPTHS, TO BE USED IN LIEU OF DRAINAGE FACILITIES ITEM NO. 7, COMPLETE IN PLACE	LF	638	\$200.00	\$127,600.00	\$243.00	\$155,034.00	\$196.78	\$125,545.64
2	REINFORCED CONCRETE TYPE "C" MANHOLE FOR 48" STORM SEWER AND LARGER, INCLUDES ADJUSTMENTS, ALL DEPTHS, TO BE USED IN LIEU OF DRAINAGE FACILITIES ITEM NO. 14, COMPLETE IN PLACE	EA	6	\$2,500.00	\$15,000.00	\$5,000.00	\$30,000.00	\$3,901.00	\$23,406.00
ALTERNATE DRAINAGE FACILITIES ITEMS SUBTOTAL:					\$142,600.00	\$185,034.00			\$148,951.64
<u>BIDDING SUMMARY</u>									
SUBTOTAL WATER ITEMS					\$296,528.45		\$315,253.30		\$315,723.93
SUBTOTAL SANITARY SEWER ITEMS					\$615,232.76		\$635,179.30		\$754,679.66
SUBTOTAL DRAINAGE FACILITIES ITEMS					\$925,765.24		\$1,030,134.40		\$999,278.01
SUBTOTAL SANITARY SEWER FORCE MAIN ITEMS					\$88,636.60		\$125,232.00		\$125,471.43
SUBTOTAL MISCELLANEOUS ITEMS					\$40,836.95		\$19,200.00		\$45,901.34
TOTAL AMOUNT BASE BID					\$1,967,000.00		\$2,124,999.00		\$2,241,054.37
<u>ALTERNATE DRAINAGE FACILITIES ITEMS</u>									
TOTAL AMOUNT BASE BID					\$1,967,000.00		\$2,124,999.00		\$2,241,054.37
DEDUCT DRAINAGE FACILITIES ITEMS ITEM NO.8					-\$173,312.70		-\$194,590.00		-\$202,475.68
DEDUCT DRAINAGE FACILITIES ITEMS ITEM NO.15					-\$76,075.00		-\$40,000.00		-\$36,327.75
SUBTOTAL ALTERNATE DRAINAGE FACILITIES ITEMS					\$142,600.00		\$185,034.00		\$148,951.64
TOTAL AMOUNT INCLUDING ALTERNATE DRAINAGE FACILITIES ITEMS					\$1,860,212.30		\$2,075,443.00		\$2,151,202.58

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ITEM	DESCRIPTION	UNIT	QTY	4) CE BARKER, LTD		5) R CONSTRUCTION CIVIL		6) HARRIS CONSTRUCTION COMPANY, LTD.	
				UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST
WATER ITEMS									
1	12" PVC WATER LINE, C-900, DR 18, CLASS 235, INCLUDES FITTINGS, BEDDING AND BACKFILL, ALL DEPTHS, COMPLETE IN PLACE	LF	906	\$31.72	\$28,738.32	\$32.00	\$28,992.00	\$35.50	\$32,163.00
2	12" PVC WATER LINE, C-900, DR 18, CLASS 235, WITH RESTRAINED JOINTS, INCLUDES FITTINGS, BEDDING AND BACKFILL, ALL DEPTHS, COMPLETE IN PLACE	LF	1542	\$64.75	\$99,844.50	\$55.00	\$84,810.00	\$45.25	\$69,775.50
3	8" PVC WATER LINE, C-900, DR 18, CLASS 235, INCLUDES FITTINGS, BEDDING AND BACKFILL, ALL DEPTHS, COMPLETE IN PLACE	LF	1514	\$19.31	\$29,235.34	\$18.00	\$27,252.00	\$21.25	\$32,172.50
4	8" PVC WATER LINE, C-900, DR 18, CLASS 235, WITH RESTRAINED JOINTS, INCLUDES FITTINGS, BEDDING AND BACKFILL, ALL DEPTHS, COMPLETE IN PLACE	LF	699	\$36.53	\$25,534.47	\$38.00	\$26,562.00	\$33.45	\$23,381.55
5	6" PVC WATER LINE, C-900, DR 18, CLASS 235, INCLUDES FITTINGS, BEDDING AND BACKFILL, ALL DEPTHS, COMPLETE IN PLACE	LF	779	\$16.21	\$12,627.59	\$15.00	\$11,685.00	\$17.75	\$13,827.25
6	6" PVC WATER LINE, C-900, DR 18, CLASS 235, WITH RESTRAINED JOINTS, INCLUDES FITTINGS, BEDDING AND BACKFILL, ALL DEPTHS, COMPLETE IN PLACE	LF	171	\$29.53	\$5,049.63	\$39.00	\$6,669.00	\$28.50	\$4,873.50
7	6" PVC WATER LINE, C-900, DR 14, CLASS 305, WITH RESTRAINED JOINTS, INCLUDES FITTINGS, BEDDING AND BACKFILL, ALL DEPTHS, COMPLETE IN PLACE	LF	26	\$24.82	\$645.32	\$45.00	\$1,170.00	\$21.95	\$570.70
8	4" PVC WATER LINE, C-900, DR 18, CLASS 235, INCLUDES FITTINGS, BEDDING AND BACKFILL, ALL DEPTHS, COMPLETE IN PLACE	LF	536	\$12.70	\$6,807.20	\$14.00	\$7,504.00	\$18.00	\$9,648.00
9	FIRE HYDRANT UNIT, ALL DEPTHS, INCLUDES APPROPRIATE TEE, FITTINGS, 6" GATE VALVE AND BOX, AND LEAD PIPE, COMPLETE IN PLACE	EA	11	\$3,543.56	\$38,979.16	\$4,100.00	\$45,100.00	\$4,350.00	\$47,850.00
10	12" AWWA GATE VALVE AND BOX, COMPLETE IN PLACE	EA	9	\$2,004.26	\$18,038.34	\$2,100.00	\$18,900.00	\$2,375.00	\$21,375.00
11	8" AWWA GATE VALVE AND BOX, COMPLETE IN PLACE	EA	11	\$934.59	\$10,280.49	\$1,100.00	\$12,100.00	\$1,250.00	\$13,750.00
12	6" AWWA GATE VALVE AND BOX, COMPLETE IN PLACE	EA	4	\$694.56	\$2,778.24	\$800.00	\$3,200.00	\$875.00	\$3,500.00
13	WET CONNECTION OF PROPOSED 8" WATER LINE TO EXISTING WATER LINE INCLUDES FITTINGS, ALL ADAPTERS AND CONNECTORS NECESSARY, AND REMOVAL OF EXISTING PLUG & CLAMP AND 2" BLOW-OFF VALVE AND BOX, (ALL DEPTHS), COMPLETE IN PLACE	EA	1	\$550.11	\$550.11	\$200.00	\$200.00	\$300.00	\$300.00
14	WET CONNECTION OF PROPOSED 12" WATER LINE TO EXISTING WATER LINE INCLUDES FITTINGS, ALL ADAPTERS AND CONNECTORS NECESSARY, AND REMOVAL OF EXISTING PLUG & CLAMP AND 2" BLOW-OFF VALVE AND BOX, (ALL DEPTHS), COMPLETE IN PLACE	EA	1	\$629.03	\$629.03	\$300.00	\$300.00	\$600.00	\$600.00
15	12" X 12" TAPPING SLEEVE AND VALVE & BOX, COMPLETE IN PLACE	EA	2	\$6,582.06	\$13,164.12	\$8,700.00	\$17,400.00	\$8,500.00	\$17,000.00
16	12" X 8" TAPPING SLEEVE AND VALVE & BOX, COMPLETE IN PLACE	EA	1	\$5,249.12	\$5,249.12	\$4,200.00	\$4,200.00	\$5,000.00	\$5,000.00
17	REMOVE AND DISPOSE OFFSITE OF EXISTING 12" WATER LINE, ALL DEPTHS, COMPLETE IN PLACE (TO BE COMPLETED AFTER WATER LINE ALONG KINGELM LAKE DRIVE AND BELLEAU LAKE DRIVE IS PUT INTO SERVICE)	LF	812	\$13.91	\$11,294.92	\$23.00	\$18,676.00	\$12.00	\$9,744.00
18	REMOVE AND RELOCATE EXISTING FIRE HYDRANT, COMPLETE IN PLACE	EA	1	\$1,955.34	\$1,955.34	\$1,600.00	\$1,600.00	\$4,750.00	\$4,750.00
19	12" PLUG & CLAMP WITH 2" BLOW-OFF VALVE AND BOX ASSEMBLY, COMPLETE IN PLACE	EA	3	\$455.01	\$1,365.03	\$850.00	\$2,550.00	\$700.00	\$2,100.00
20	8" PLUG & CLAMP WITH 2" BLOW-OFF VALVE AND BOX ASSEMBLY, COMPLETE IN PLACE	EA	2	\$390.22	\$780.44	\$800.00	\$1,600.00	\$600.00	\$1,200.00

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				UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST
21	4" PLUG & CLAMP WITH 2" BLOW-OFF VALVE AND BOX ASSEMBLY, COMPLETE IN PLACE	EA	3	\$368.62	\$1,105.86	\$800.00	\$2,400.00	\$500.00	\$1,500.00
22	ADJUST EXISTING FIRE HYDRANT ASSEMBLY TO PROPOSED GRADE, COMPLETE IN PLACE	EA	3	\$716.04	\$2,148.12	\$300.00	\$900.00	\$400.00	\$1,200.00
23	WET AUGER FOR 12" WATER LINE, INCLUDES BORE PITS, ALL DEPTHS, COMPLETE IN PLACE	LF	20	\$166.62	\$3,332.40	\$140.00	\$2,800.00	\$600.00	\$12,000.00
24	TRENCH SAFETY SYSTEM, ALL SIZES AND DEPTHS, COMPLETE IN PLACE	LF	6153	\$0.14	\$861.42	\$0.10	\$615.30	\$1.75	\$10,767.75
25	DEWATERING FOR WATER LINE, ALL SIZES, ALL DEPTHS (AS DIRECTED BY ENGINEER), COMPLETE IN PLACE	LF	100	\$20.00	\$2,000.00	\$23.00	\$2,300.00	\$22.00	\$2,200.00
26	UTILITY SPOILS, INCLUDES HAULING EXCAVATED MATERIAL ON-SITE, STRIPPING, STOCKPILE OF STRIPPINGS, PLACEMENT AND COMPACTION TO 95% STANDARD PROCTOR DENSITY, WITH MAXIMUM 8" LIFTS, FINAL GRADING, AND REAPPLICATION OF STRIPPINGS, COMPLETE IN PLACE	LS	1	\$3,580.20	\$3,580.20	\$3,650.00	\$3,650.00	\$3,700.00	\$3,700.00
27	ADDITIONAL DUCTILE IRON FITTINGS, ALL DEPTHS, COMPLETE IN PLACE	TON	1	\$716.04	\$716.04	\$10.00	\$10.00	\$2,400.00	\$2,400.00
28	PRESSURE TEST AND CHLORINATE PROP. 12" WATER LINE ALONG KINGELM LAKE DRIVE AND BELLEAU LAKE DRIVE PRIOR TO SHUTTING OFF ANY OTHER WATER LINE. RETESTING AND CHLORINATION MAY BE NEEDED DURING STAGE 2 CONSTRUCTION, NO SEPARATE PAY, COMPLETE IN PLACE	LS	1	\$3,580.20	\$3,580.20	\$2,800.00	\$2,800.00	\$2,500.00	\$2,500.00
WATER ITEMS SUBTOTAL:					\$330,870.95		\$335,945.30		\$349,848.75
SANITARY SEWER ITEMS									
1	8" PVC SEWER PIPE, ASTM D-2241, SDR 26, 0'-8' CUT, TO INCLUDE BEDDING AND BACKFILL, COMPLETE IN PLACE	LF	1588	\$30.65	\$48,672.20	\$29.00	\$46,052.00	\$25.40	\$40,335.20
2	8" PVC SEWER PIPE, ASTM D-2241, SDR 26, 8'-12' CUT, TO INCLUDE BEDDING AND BACKFILL, COMPLETE IN PLACE	LF	1387	\$31.93	\$44,286.91	\$30.00	\$41,610.00	\$26.75	\$37,102.25
3	8" PVC SEWER PIPE, AWWA C-900, DR 18, 12'-16' CUT, TO INCLUDE BEDDING AND BACKFILL, COMPLETE IN PLACE	LF	2014	\$39.88	\$80,318.32	\$36.00	\$72,504.00	\$30.95	\$62,333.30
4	8" PVC SEWER PIPE, AWWA C-900, DR 18, 16'-20' CUT, TO INCLUDE BEDDING AND BACKFILL, COMPLETE IN PLACE	LF	193	\$49.43	\$9,539.99	\$60.00	\$11,580.00	\$35.00	\$6,755.00
5	10" PVC SEWER PIPE, AWWA C-900, DR 18, 12'-16' CUT, TO INCLUDE BEDDING AND BACKFILL, COMPLETE IN PLACE	LF	74	\$45.27	\$3,349.98	\$44.00	\$3,256.00	\$40.75	\$3,015.50
6	10" PVC SEWER PIPE, AWWA C-900, DR 18, 16'-20' CUT, TO INCLUDE BEDDING AND BACKFILL, COMPLETE IN PLACE	LF	840	\$54.81	\$46,040.40	\$63.00	\$52,920.00	\$44.25	\$37,170.00
7	10" PVC SEWER PIPE, AWWA C-900, DR 18, 20'-24' CUT, TO INCLUDE BEDDING AND BACKFILL, COMPLETE IN PLACE	LF	212	\$81.61	\$17,301.32	\$100.00	\$21,200.00	\$74.00	\$15,688.00
8	STANDARD 4' DIAMETER SANITARY SEWER MANHOLE, (0' - 8' DEPTH), INCLUDES ADJUSTMENTS, COMPLETE IN PLACE	EA	53	\$2,342.38	\$124,146.14	\$2,300.00	\$121,900.00	\$4,650.00	\$246,450.00
9	EXTRA VERTICAL DEPTH FOR 4' DIAMETER SANITARY SEWER MANHOLE (OVER 8' DEPTH), COMPLETE IN PLACE	VF	231	\$145.04	\$33,504.24	\$130.00	\$30,030.00	\$215.00	\$49,665.00
10	STANDARD SANITARY SEWER DROP STRUCTURE, ALL SIZES, (0' - 2' DROP), COMPLETE IN PLACE	EA	5	\$1,110.18	\$5,550.90	\$800.00	\$4,000.00	\$775.00	\$3,875.00
11	EXTRA DEPTH ON SANITARY SEWER DROP, (OVER 2' OF DEPTH), COMPLETE IN PLACE	VF	17	\$46.46	\$789.82	\$25.00	\$425.00	\$25.00	\$425.00

BID TABULATION FOR:

CONSTRUCTION OF THE WATER, SANITARY SEWER AND DRAINAGE FACILITIES
 TO SERVE KATY LAKES SECTION 5
 HARRIS COUNTY MUNICIPAL UTILITY DISTRICT NO. 538
 CITY OF HOUSTON E.T.J., HARRIS COUNTY, TEXAS
 JANUARY 28, 2021
 LJA ENGINEERING, INC.
 A.OTTO
 JANUARY 28, 2021
 2636-0150D (9.2)

BID OPENING DATE:
BID OPENING LOCATION:
TABULATION BY:
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LJA JOB NO.

ITEM	DESCRIPTION	UNIT	QTY	4) CE BARKER, LTD		5) R CONSTRUCTION CIVIL		6) HARRIS CONSTRUCTION COMPANY, LTD.	
				UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST
12	LONG SIDE DOUBLE OR SINGLE 6" PVC PIPE SERVICE LEAD, ASTM D-2241, SDR 26, ALL DEPTHS, INCLUDES PIPE, CEMENT STABILIZED SAND BACKFILL, RISER, WYE, PLUG, MARKER, AND ANY NECESSARY FITTINGS, COMPLETE IN PLACE	EA	31	\$2,003.73	\$62,115.63	\$2,000.00	\$62,000.00	\$3,550.00	\$110,050.00
13	LONG SIDE DOUBLE OR SINGLE 8" PVC PIPE SERVICE LEAD, ASTM D-2241, SDR 26, ALL DEPTHS, INCLUDES PIPE, CEMENT STABILIZED SAND BACKFILL, RISER, WYE, PLUG, MARKER, AND ANY NECESSARY FITTINGS, COMPLETE IN PLACE	EA	3	\$2,467.61	\$7,402.83	\$2,500.00	\$7,500.00	\$9,100.00	\$27,300.00
14	SHORT SIDE DOUBLE OR SINGLE 6" PVC PIPE SERVICE LEAD, ASTM D-2241, SDR 26, ALL DEPTHS, INCLUDES PIPE, CEMENT STABILIZED SAND BACKFILL, RISER, WYE, PLUG, MARKER, AND ANY NECESSARY FITTINGS, COMPLETE IN PLACE	EA	50	\$560.93	\$28,046.50	\$1,300.00	\$65,000.00	\$725.00	\$36,250.00
15	SHORT SIDE DOUBLE OR SINGLE 6" PVC PIPE SERVICE LEAD, ASTM D-2241, SDR 26, ALL DEPTHS, INCLUDES PIPE, TIE INTO EXISTING SANITARY SEWER, CEMENT STABILIZED SAND BACKFILL, RISER, WYE, PLUG, MARKER, AND ANY NECESSARY FITTINGS, COMPLETE IN PLACE	EA	3	\$536.74	\$1,610.22	\$1,300.00	\$3,900.00	\$1,000.00	\$3,000.00
16	LONG SIDE DOUBLE OR SINGLE 6" PVC PIPE SERVICE LEAD, ASTM D-2241, SDR 26, ALL DEPTHS, INCLUDES PIPE, TIE INTO EXISTING SANITARY SEWER, CEMENT STABILIZED SAND BACKFILL, RISER, WYE, PLUG, MARKER, AND ANY NECESSARY FITTINGS, COMPLETE IN PLACE	EA	1	\$2,283.93	\$2,283.93	\$1,900.00	\$1,900.00	\$4,600.00	\$4,600.00
17	BYPASS PUMPING EXISTING SANITARY SEWER, (TO BE USED ONLY AS DIRECTED BY THE ENGINEER), COMPLETE IN PLACE	LS	1	\$12,806.10	\$12,806.10	\$9,500.00	\$9,500.00	\$5,000.00	\$5,000.00
18	STANDARD 6" SANITARY SEWER STACK, ALL DEPTHS, COMPLETE IN PLACE	EA	67	\$609.56	\$40,840.52	\$500.00	\$33,500.00	\$725.00	\$48,575.00
19	10" SANITARY SEWER PLUG, ALL DEPTHS, COMPLETE IN PLACE	EA	1	\$243.63	\$243.63	\$120.00	\$120.00	\$200.00	\$200.00
20	8" SANITARY SEWER PLUG, ALL DEPTHS, COMPLETE IN PLACE	EA	2	\$280.66	\$561.32	\$50.00	\$100.00	\$150.00	\$300.00
21	ADJUST EXISTING SANITARY SEWER MANHOLE TO FINAL GRADE, COMPLETE IN PLACE	EA	6	\$716.04	\$4,296.24	\$300.00	\$1,800.00	\$575.00	\$3,450.00
22	CORE INTO EXISTING SANITARY SEWER MANHOLE AND CONNECT PROPOSED 8" SANITARY SEWER LINE, ALL DEPTHS, COMPLETE IN PLACE	EA	2	\$963.90	\$1,927.80	\$1,000.00	\$2,000.00	\$995.00	\$1,990.00
23	CORE INTO EXISTING SANITARY SEWER MANHOLE AND CONNECT PROPOSED 10" SANITARY SEWER LINE, ALL DEPTHS, COMPLETE IN PLACE	EA	1	\$977.67	\$977.67	\$1,000.00	\$1,000.00	\$1,000.00	\$1,000.00
24	REMOVE AND OFFSITE DISPOSAL OF EXISTING 8" PLUG AND CONNECT PROPOSED 8" SANITARY SEWER, ALL DEPTHS, COMPLETE IN PLACE	EA	1	\$484.48	\$484.48	\$150.00	\$150.00	\$250.00	\$250.00
25	WET AUGER FOR 8" SANITARY SEWER, INCLUDES BORE PITS, ALL DEPTHS, COMPLETE IN PLACE	LF	20	\$128.25	\$2,565.00	\$140.00	\$2,800.00	\$150.00	\$3,000.00
26	WET AUGER FOR 10" SANITARY SEWER, INCLUDES BORE PITS, ALL DEPTHS, COMPLETE IN PLACE	LF	50	\$81.99	\$4,099.50	\$120.00	\$6,000.00	\$165.00	\$8,250.00
27	TRENCH SAFETY SYSTEM FOR SANITARY SEWER, ALL DEPTHS AND SIZES, COMPLETE IN PLACE	LF	8620	\$0.14	\$1,206.80	\$0.10	\$862.00	\$1.75	\$15,085.00
28	DEWATERING FOR SANITARY SEWER, ALL SIZES, ALL DEPTHS, (AS DIRECTED BY ENGINEER), COMPLETE IN PLACE	LF	3333	\$20.00	\$66,660.00	\$22.00	\$73,326.00	\$22.00	\$73,326.00
29	ADDITIONAL COST FOR SANITARY SEWER BEDDING FOR UNSATISFACTORY SOIL CONDITIONS (AS DIRECTED BY ENGINEER), COMPLETE IN PLACE	LF	3333	\$15.00	\$49,995.00	\$10.00	\$33,330.00	\$10.00	\$33,330.00
30	VIDEO INSPECTION OF SANITARY SEWER, ALL SIZES, INCLUDES DIGITAL COPY, COMPLETE IN PLACE	LF	6308	\$0.01	\$63.08	\$2.00	\$12,616.00	\$4.00	\$25,232.00

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CONSTRUCTION OF THE WATER, SANITARY SEWER AND DRAINAGE FACILITIES
 TO SERVE KATY LAKES SECTION 5
 HARRIS COUNTY MUNICIPAL UTILITY DISTRICT NO. 538
 CITY OF HOUSTON E.T.J., HARRIS COUNTY, TEXAS
 JANUARY 28, 2021
 LJA ENGINEERING, INC.
 A.OTTO
 JANUARY 28, 2021
 2636-0150D (9.2)

BID OPENING DATE:
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ITEM	DESCRIPTION	UNIT	QTY	4) CE BARKER, LTD		5) R CONSTRUCTION CIVIL		6) HARRIS CONSTRUCTION COMPANY, LTD.	
				UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST
31	UTILITY SPOILS, INCLUDES HAULING EXCAVATED MATERIAL ON-SITE, STRIPPING, STOCKPILE OF STRIPPINGS, PLACEMENT AND COMPACTION TO 95% STANDARD PROCTOR DENSITY, WITH MAXIMUM 8" LIFTS, FINAL GRADING, AND REAPPLICATION OF STRIPPINGS, COMPLETE IN PLACE	LS	1	\$3,580.20	\$3,580.20	\$9,100.00	\$9,100.00	\$10,750.00	\$10,750.00
SANITARY SEWER ITEMS SUBTOTAL:					\$705,266.67	\$731,981.00	\$913,752.25		
DRAINAGE FACILITIES ITEMS									
1	24" RCP STORM SEWER, ASTM C-76, CLASS III, INCLUDES BEDDING AND BACKFILL, ALL DEPTHS, COMPLETE IN PLACE	LF	3685	\$57.29	\$211,113.65	\$57.00	\$210,045.00	\$65.60	\$241,736.00
2	30" RCP STORM SEWER, ASTM C-76, CLASS III, INCLUDES BEDDING AND BACKFILL, ALL DEPTHS, COMPLETE IN PLACE	LF	340	\$69.71	\$23,701.40	\$68.00	\$23,120.00	\$77.65	\$26,401.00
3	36" RCP STORM SEWER, ASTM C-76, CLASS III, INCLUDES BEDDING AND BACKFILL, ALL DEPTHS, COMPLETE IN PLACE	LF	1176	\$93.14	\$109,532.64	\$94.00	\$110,544.00	\$100.00	\$117,600.00
4	42" RCP STORM SEWER, ASTM C-76, CLASS III, INCLUDES BEDDING AND BACKFILL, ALL DEPTHS, COMPLETE IN PLACE	LF	489	\$118.10	\$57,750.90	\$123.00	\$60,147.00	\$130.25	\$63,692.25
5	54" RCP STORM SEWER, ASTM C-76, CLASS III, INCLUDES BEDDING AND BACKFILL, ALL DEPTHS, COMPLETE IN PLACE	LF	152	\$190.13	\$28,899.76	\$197.00	\$29,944.00	\$215.00	\$32,680.00
6	54" CORRUGATED GALVANIZED METAL PIPE, INCLUDES BEDDING AND BACKFILL, ALL DEPTHS, COMPLETE IN PLACE	LF	92	\$185.73	\$17,087.16	\$152.00	\$13,984.00	\$180.00	\$16,560.00
7	60" RCP STORM SEWER, ASTM C-76, CLASS III, INCLUDES BEDDING AND BACKFILL, ALL DEPTHS, COMPLETE IN PLACE	LF	310	\$220.82	\$68,454.20	\$244.00	\$75,640.00	\$275.00	\$85,250.00
8	6' X 3' REINFORCED CONCRETE BOX CULVERT, ASTM C-1433, INCLUDES BEDDING AND BACKFILL, ALL DEPTHS, COMPLETE IN PLACE	LF	638	\$287.78	\$183,603.64	\$297.00	\$189,486.00	\$355.00	\$226,490.00
9	6' X 3' REINFORCED CONCRETE BOX CULVERT FROM SAFETY END TREATMENT TO JUNCTION BOX J-1, ASTM C-1433, INCLUDES BEDDING AND BACKFILL, ALL DEPTHS, COMPLETE IN PLACE	LF	12	\$287.78	\$3,453.36	\$370.00	\$4,440.00	\$355.00	\$4,260.00
10	STAGE I - REINFORCED CONCRETE "B-B" INLET, (5' OPENING), ALL DEPTHS, INCLUDES INLET PROTECTION BARRIER FOR STAGE I INLET, COMPLETE IN PLACE	EA	41	\$1,052.03	\$43,133.23	\$800.00	\$32,800.00	\$850.00	\$34,850.00
11	STAGE II - REINFORCED CONCRETE "B-B" INLET, (5' OPENING), ALL DEPTHS, COMPLETE IN PLACE	EA	41	\$897.80	\$36,809.80	\$1,800.00	\$73,800.00	\$1,500.00	\$61,500.00
12	STAGE I - MODIFIED TYPE REINFORCED CONCRETE "C-1" INLET, (10' MINIMUM INSIDE OPENING), ALL DEPTHS, INCLUDES INLET PROTECTION BARRIER FOR STAGE I INLET, COMPLETE IN PLACE	EA	1	\$1,382.51	\$1,382.51	\$900.00	\$900.00	\$975.00	\$975.00
13	STAGE II - MODIFIED REINFORCED CONCRETE TYPE "C-1" INLET, (10' MINIMUM INSIDE OPENING), ALL DEPTHS, COMPLETE IN PLACE	EA	1	\$1,448.60	\$1,448.60	\$3,500.00	\$3,500.00	\$2,100.00	\$2,100.00
14	REINFORCED CONCRETE TYPE "E" INLET, ALL SIDES OPEN, ALL DEPTHS, COMPLETE IN PLACE	EA	1	\$2,610.79	\$2,610.79	\$3,300.00	\$3,300.00	\$3,000.00	\$3,000.00
15	REINFORCED 8'X8' CONCRETE STORM SEWER JUNCTION BOX WITH REINFORCED CONCRETE TYPE "C" MANHOLE TOP, INCLUDES ADJUSTMENTS, ALL DEPTHS, COMPLETE IN PLACE	EA	5	\$9,052.72	\$45,263.60	\$10,500.00	\$52,500.00	\$8,400.00	\$42,000.00
16	REINFORCED 8'X8' CONCRETE STORM SEWER JUNCTION BOX J-1 WITH REINFORCED CONCRETE TYPE "C" MANHOLE TOP, INCLUDES ADJUSTMENTS, ALL DEPTHS, COMPLETE IN PLACE	EA	1	\$9,052.72	\$9,052.72	\$9,900.00	\$9,900.00	\$7,700.00	\$7,700.00

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 TO SERVE KATY LAKES SECTION 5
 HARRIS COUNTY MUNICIPAL UTILITY DISTRICT NO. 538
 CITY OF HOUSTON E.T.J., HARRIS COUNTY, TEXAS
 JANUARY 28, 2021
 LJA ENGINEERING, INC.
 A.OTTO
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ITEM	DESCRIPTION	UNIT	QTY	4) CE BARKER, LTD		5) R CONSTRUCTION CIVIL		6) HARRIS CONSTRUCTION COMPANY, LTD.	
				UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST
17	REINFORCED CONCRETE TYPE "C" MANHOLE FOR 42" STORM SEWER AND SMALLER, INCLUDES ADJUSTMENTS, ALL DEPTHS, COMPLETE IN PLACE	EA	40	\$2,349.86	\$93,994.40	\$2,900.00	\$116,000.00	\$3,100.00	\$124,000.00
18	REINFORCED CONCRETE TYPE "C" MANHOLE FOR 48" STORM SEWER AND LARGER, INCLUDES ADJUSTMENTS, ALL DEPTHS, COMPLETE IN PLACE	EA	7	\$5,599.58	\$39,197.06	\$5,200.00	\$36,400.00	\$5,500.00	\$38,500.00
19	REINFORCED CONCRETE TYPE "C" MANHOLE FOR 48" STORM SEWER AND LARGER WITH TYPE "E" INLET TOP, INCLUDES ADJUSTMENTS, ALL DEPTHS, COMPLETE IN PLACE	EA	1	\$6,425.78	\$6,425.78	\$12,300.00	\$12,300.00	\$12,750.00	\$12,750.00
20	8" BRICK PLUG FOR 24" RCP STORM SEWER, ALL DEPTHS, COMPLETE IN PLACE	EA	3	\$181.76	\$545.28	\$450.00	\$1,350.00	\$350.00	\$1,050.00
21	8" BRICK PLUG FOR 30" RCP STORM SEWER, ALL DEPTHS, COMPLETE IN PLACE	EA	1	\$181.76	\$181.76	\$500.00	\$500.00	\$475.00	\$475.00
22	REMOVE AND DISPOSE OF EXISTING 8" BRICK WALL PLUG AND CONNECT 24" STORM SEWER INTO EXISTING STORM SEWER SYSTEM, COMPLETE IN PLACE	EA	1	\$523.26	\$523.26	\$450.00	\$450.00	\$350.00	\$350.00
23	PLUG AND DRAIN EXISTING SUBMERGED 24" RCP STORM SEWER TO ACCOMMODATE CONSTRUCTION OF THE PROPOSED 24" RCP STORM SEWER CONNECTION, COMPLETE IN PLACE	LS	1	\$3,993.30	\$3,993.30	\$2,300.00	\$2,300.00	\$5,000.00	\$5,000.00
24	TRENCH SAFETY SYSTEM FOR STORM SEWER, ALL SIZES, ALL DEPTHS, COMPLETE IN PLACE	LF	6894	\$0.14	\$965.16	\$0.10	\$689.40	\$1.75	\$12,064.50
25	DEMUCK AND FILL EXISTING TEMPORARY OVERFLOW SWALE, 4' BOTTOM, 3:1 SIDE SLOPES, UPON COMPLETION OF 6'X3' RCB STORM SEWER CONSTRUCTION, COMPLETE IN PLACE	LS	1	\$3,580.20	\$3,580.20	\$2,500.00	\$2,500.00	\$7,500.00	\$7,500.00
26	DEMUCK AND FILL EXISTING TEMPORARY V-BOTTOM SWALE WITHIN SECTION 5 ROW, 3:1 SIDE SLOPES, COMPLETE IN PLACE	LS	1	\$3,580.20	\$3,580.20	\$9,300.00	\$9,300.00	\$7,500.00	\$7,500.00
27	DEWATERING FOR STORM SEWER, ALL SIZES, ALL DEPTHS, (AS DIRECTED BY ENGINEER), COMPLETE IN PLACE	LF	402	\$20.00	\$8,040.00	\$23.00	\$9,246.00	\$22.00	\$8,844.00
28	ADDITIONAL COST FOR STORM SEWER BEDDING FOR UNSATISFACTORY SOIL CONDITIONS (AS DIRECTED BY ENGINEER), COMPLETE IN PLACE	LF	402	\$15.00	\$6,030.00	\$10.00	\$4,020.00	\$15.00	\$6,030.00
29	CONTRACTOR SHALL ADJUST STORM SEWER MANHOLE TO FINAL GRADE, COMPLETE IN PLACE	EA	2	\$716.04	\$1,432.08	\$350.00	\$700.00	\$250.00	\$500.00
30	UTILITY SPOILS, INCLUDES HAULING EXCAVATED MATERIAL ON-SITE, STRIPPING, STOCKPILE OF STRIPPINGS, PLACEMENT AND COMPACTION TO 95% STANDARD PROCTOR DENSITY, WITH MAXIMUM 8" LIFTS, FINAL GRADING, AND REAPPLICATION OF STRIPPINGS, COMPLETE IN PLACE	LS	1	\$3,580.20	\$3,580.20	\$21,000.00	\$21,000.00	\$18,250.00	\$18,250.00
31	REGRADE EXISTING BACK OF LOT, V-BOTTOM DRAINAGE SWALES TO PROPOSED TYPE "E" INLET/24" SAFETY END TREATMENT, COMPLETE IN PLACE	LF	30	\$6.49	\$194.70	\$20.00	\$600.00	\$28.00	\$840.00
32	REGRADE EXISTING 4' BOTTOM OVERFLOW SWALE TO PROPOSED 6'X3' SAFETY END TREATMENT, COMPLETE IN PLACE	LF	62	\$6.49	\$402.38	\$12.00	\$744.00	\$35.00	\$2,170.00
33	REGRADE EXISTING V-BOTTOM SWALE WITHIN DEWBERRY ISLAND DRIVE TO EXISTING LAKE 4, COMPLETE IN PLACE	LF	1011	\$6.49	\$6,561.39	\$2.40	\$2,426.40	\$3.00	\$3,033.00
34	5" REINFORCED CONCRETE SLOPE PAVEMENT WITH TOE WALLS ALL AROUND, COMPLETE IN PLACE	SY	40	\$85.92	\$3,436.80	\$92.00	\$3,680.00	\$105.00	\$4,200.00
35	6:1 SAFETY END TREATMENT FOR 24" PIPE CULVERT, INCLUDES PIPE RUNNERS, COMPLETE IN PLACE	EA	1	\$1,967.99	\$1,967.99	\$2,500.00	\$2,500.00	\$2,400.00	\$2,400.00
36	6:1 SAFETY END TREATMENT FOR 6' X 3' BOX CULVERT, INCLUDES PIPE RUNNERS, COMPLETE IN PLACE	EA	1	\$8,210.22	\$8,210.22	\$12,000.00	\$12,000.00	\$15,000.00	\$15,000.00

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				UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST
37	CONSTRUCTION AND REMOVAL OF TEMPORARY COFFER DAM FOR THE CONSTRUCTION OF STORM SEWER OUTFALL, INCLUDES DEWATERING AND ALL APPURTENANCES, ALL SIZES, ALL DEPTHS, (AS DIRECTED BY ENGINEER), COMPLETE IN PLACE	EA	3	\$10,740.60	\$32,221.80	\$6,100.00	\$18,300.00	\$5,000.00	\$15,000.00
DRAINAGE FACILITIES ITEMS SUBTOTAL:					\$1,068,361.92		\$1,151,055.80		\$1,252,250.75
SANITARY SEWER FORCE MAIN ITEMS									
1	10" PVC FORCE MAIN, C-900, DR 18, CLASS 235, ALL DEPTHS, INCLUDES FITTINGS, BEDDING AND BACKFILL, COMPLETE IN PLACE	LF	48	\$28.31	\$1,358.88	\$60.00	\$2,880.00	\$54.00	\$2,592.00
2	10" PVC FORCE MAIN, C-900, DR 18, CLASS 235, WITH RESTRAINED JOINTS, INCLUDES FITTINGS, BEDDING AND BACKFILL, ALL DEPTHS, COMPLETE IN PLACE	LF	1784	\$48.10	\$85,810.40	\$53.00	\$94,552.00	\$60.00	\$107,040.00
3	10" SANITARY SEWER PLUG AND CLAMP FOR FORCEMAIN, ALL DEPTHS, COMPLETE IN PLACE	EA	2	\$506.67	\$1,013.34	\$400.00	\$800.00	\$800.00	\$1,600.00
4	CONTRACTOR SHALL LOCATE AND EXPOSE EXISTING WATER LINE, FORCE MAIN, AND DRY UTILITIES IN CONSTRUCTION AREA, ANY DISCREPANCIES WITH THE PLANS SHALL BE REPORTED TO THE ENGINEER, COMPLETE IN PLACE	LS	1	\$6,334.20	\$6,334.20	\$4,400.00	\$4,400.00	\$3,500.00	\$3,500.00
5	FORCE MAIN AIR RELEASE VALVE WITH ISOLATION VALVE MANHOLE, INCLUDES BOX AND INFLOW PROTECTORS, COMPLETE IN PLACE	EA	1	\$20,415.59	\$20,415.59	\$11,000.00	\$11,000.00	\$23,500.00	\$23,500.00
6	WET AUGER FOR 10" FORCE MAIN, INCLUDES BORE PITS, ALL DEPTHS, COMPLETE IN PLACE	LF	32	\$104.13	\$3,332.16	\$150.00	\$4,800.00	\$160.00	\$5,120.00
7	TRENCH SAFETY SYSTEM FOR SANITARY SEWER, ALL DEPTHS AND SIZES, COMPLETE IN PLACE	LF	1800	\$0.14	\$252.00	\$0.10	\$180.00	\$1.75	\$3,150.00
8	UTILITY SPOILS, INCLUDES HAULING EXCAVATED MATERIAL ON-SITE, STRIPPING, STOCKPILE OF STRIPPINGS, PLACEMENT AND COMPACTION TO 95% STANDARD PROCTOR DENSITY, WITH MAXIMUM 8" LIFTS, FINAL GRADING, AND REAPPLICATION OF STRIPPINGS, COMPLETE IN PLACE	LS	1	\$3,580.20	\$3,580.20	\$3,700.00	\$3,700.00	\$2,650.00	\$2,650.00
SANITARY SEWER FORCE MAIN ITEMS SUBTOTAL:					\$122,096.77		\$122,312.00		\$149,152.00
MISCELLANEOUS ITEMS									
1	INSTALL, MAINTAIN, AND REMOVE REINFORCED FILTER FABRIC FENCE (SILT BARRIER FENCING), COMPLETE IN PLACE	LF	1000	\$2.20	\$2,200.00	\$1.20	\$1,200.00	\$1.50	\$1,500.00
2	INSTALL, MAINTAIN, AND REMOVE STABILIZED CONSTRUCTION EXIT, AND REGRADE AREA TO MATCH FINISHED GRADE, COMPLETE IN PLACE	EA	1	\$3,888.65	\$3,888.65	\$2,000.00	\$2,000.00	\$1,800.00	\$1,800.00
3	EXTRA CEMENT STABILIZED SAND BACKFILL, (1.5 SACKS PER CY), (AS DIRECTED BY ENGINEER), COMPLETE IN PLACE	CY	50	\$23.00	\$1,150.00	\$20.00	\$1,000.00	\$20.00	\$1,000.00
4	HYDROMULCH SEEDING AND FINE GRADING, INCLUDES WATERING, TO ACHIEVE 90% HOMOGENEOUS GRASS COVERAGE, (AS DIRECTED BY ENGINEER), COMPLETE IN PLACE	AC	6	\$1,707.48	\$10,244.88	\$2,200.00	\$13,200.00	\$2,400.00	\$14,400.00
5	BROADCAST SEEDING, INCLUDES FERTILIZING AND WATERING, TO ACHIEVE 90% HOMOGENEOUS GRASS COVERAGE, (AS DIRECTED BY ENGINEER), COMPLETE IN PLACE	AC	31	\$826.20	\$25,612.20	\$600.00	\$18,600.00	\$850.00	\$26,350.00
6	STORM WATER POLLUTION PREVENTION PLAN COMPLIANCE, INCLUDES GENERAL SOURCE CONTROLS AND ALL ITEMS NOT SPECIFICALLY LISTED IN THE BID PROPOSAL, COMPLETE IN PLACE	LS	1	\$716.04	\$716.04	\$1,200.00	\$1,200.00	\$750.00	\$750.00
7	INSTALL, MAINTAIN, AND REMOVE CONCRETE WASHOUT AREA, COMPLETE IN PLACE	EA	1	\$1,266.84	\$1,266.84	\$500.00	\$500.00	\$1,000.00	\$1,000.00

BID TABULATION FOR:

CONSTRUCTION OF THE WATER, SANITARY SEWER AND DRAINAGE FACILITIES
 TO SERVE KATY LAKES SECTION 5
 HARRIS COUNTY MUNICIPAL UTILITY DISTRICT NO. 538
 CITY OF HOUSTON E.T.J., HARRIS COUNTY, TEXAS
 JANUARY 28, 2021
 LJA ENGINEERING, INC.
 A.OTTO
 JANUARY 28, 2021
 2636-0150D (9.2)

BID OPENING DATE:
BID OPENING LOCATION:
TABULATION BY:
TABULATION DATE:
LJA JOB NO.

ITEM	DESCRIPTION	UNIT	QTY	4) CE BARKER, LTD		5) R CONSTRUCTION CIVIL		6) HARRIS CONSTRUCTION COMPANY, LTD.	
				UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST
8	INLET PROTECTION BARRIER FOR STAGE II INLET, COMPLETE IN PLACE	EA	49	\$58.38	\$2,860.62	\$25.00	\$1,225.00	\$50.00	\$2,450.00
MISCELLANEOUS ITEMS SUBTOTAL:					\$47,939.23	\$38,925.00			\$49,250.00
<u>ALTERNATE DRAINAGE FACILITIES ITEMS</u>									
1	60" RCP STORM SEWER, ASTM C-76, CLASS III, INCLUDES BEDDING AND BACKFILL, ALL DEPTHS, TO BE USED IN LIEU OF DRAINAGE FACILITIES ITEM NO. 7, COMPLETE IN PLACE	LF	638	\$225.61	\$143,939.18	\$246.00	\$156,948.00	\$275.00	\$175,450.00
2	REINFORCED CONCRETE TYPE "C" MANHOLE FOR 48" STORM SEWER AND LARGER, INCLUDES ADJUSTMENTS, ALL DEPTHS, TO BE USED IN LIEU OF DRAINAGE FACILITIES ITEM NO. 14, COMPLETE IN PLACE	EA	6	\$6,036.77	\$36,220.62	\$6,100.00	\$36,600.00	\$8,200.00	\$49,200.00
ALTERNATE DRAINAGE FACILITIES ITEMS SUBTOTAL:					\$180,159.80	\$193,548.00			\$224,650.00
<u>BIDDING SUMMARY</u>									
SUBTOTAL WATER ITEMS					\$330,870.95	\$335,945.30			\$349,848.75
SUBTOTAL SANITARY SEWER ITEMS					\$705,266.67	\$731,981.00			\$913,752.25
SUBTOTAL DRAINAGE FACILITIES ITEMS					\$1,068,361.92	\$1,151,055.80			\$1,252,250.75
SUBTOTAL SANITARY SEWER FORCE MAIN ITEMS					\$122,096.77	\$122,312.00			\$149,152.00
SUBTOTAL MISCELLANEOUS ITEMS					\$47,939.23	\$38,925.00			\$49,250.00
TOTAL AMOUNT BASE BID					\$2,274,535.54	\$2,380,219.10			\$2,714,253.75
<u>ALTERNATE DRAINAGE FACILITIES ITEMS</u>									
TOTAL AMOUNT BASE BID					\$2,274,535.54	\$2,380,219.10			\$2,714,253.75
DEDUCT DRAINAGE FACILITIES ITEMS ITEM NO.8					-\$183,603.64	-\$189,486.00			-\$226,490.00
DEDUCT DRAINAGE FACILITIES ITEMS ITEM NO.15					-\$45,263.60	-\$52,500.00			-\$42,000.00
SUBTOTAL ALTERNATE DRAINAGE FACILITIES ITEMS					\$180,159.80	\$193,548.00			\$224,650.00
TOTAL AMOUNT INCLUDING ALTERNATE DRAINAGE FACILITIES ITEMS					\$2,225,828.10	\$2,331,781.10			\$2,670,413.75

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7) TRIPLE B SERVICES, LLP

ITEM	DESCRIPTION	UNIT	QTY	UNIT COST	TOTAL COST
WATER ITEMS					
1	12" PVC WATER LINE, C-900, DR 18, CLASS 235, INCLUDES FITTINGS, BEDDING AND BACKFILL, ALL DEPTHS, COMPLETE IN PLACE	LF	906	\$45.00	\$40,770.00
2	12" PVC WATER LINE, C-900, DR 18, CLASS 235, WITH RESTRAINED JOINTS, INCLUDES FITTINGS, BEDDING AND BACKFILL, ALL DEPTHS, COMPLETE IN PLACE	LF	1542	\$65.00	\$100,230.00
3	8" PVC WATER LINE, C-900, DR 18, CLASS 235, INCLUDES FITTINGS, BEDDING AND BACKFILL, ALL DEPTHS, COMPLETE IN PLACE	LF	1514	\$28.00	\$42,392.00
4	8" PVC WATER LINE, C-900, DR 18, CLASS 235, WITH RESTRAINED JOINTS, INCLUDES FITTINGS, BEDDING AND BACKFILL, ALL DEPTHS, COMPLETE IN PLACE	LF	699	\$41.00	\$28,659.00
5	6" PVC WATER LINE, C-900, DR 18, CLASS 235, INCLUDES FITTINGS, BEDDING AND BACKFILL, ALL DEPTHS, COMPLETE IN PLACE	LF	779	\$25.00	\$19,475.00
6	6" PVC WATER LINE, C-900, DR 18, CLASS 235, WITH RESTRAINED JOINTS, INCLUDES FITTINGS, BEDDING AND BACKFILL, ALL DEPTHS, COMPLETE IN PLACE	LF	171	\$40.00	\$6,840.00
7	6" PVC WATER LINE, C-900, DR 14, CLASS 305, WITH RESTRAINED JOINTS, INCLUDES FITTINGS, BEDDING AND BACKFILL, ALL DEPTHS, COMPLETE IN PLACE	LF	26	\$51.00	\$1,326.00
8	4" PVC WATER LINE, C-900, DR 18, CLASS 235, INCLUDES FITTINGS, BEDDING AND BACKFILL, ALL DEPTHS, COMPLETE IN PLACE	LF	536	\$17.00	\$9,112.00
9	FIRE HYDRANT UNIT, ALL DEPTHS, INCLUDES APPROPRIATE TEE, FITTINGS, 6" GATE VALVE AND BOX, AND LEAD PIPE, COMPLETE IN PLACE	EA	11	\$4,100.00	\$45,100.00
10	12" AWWA GATE VALVE AND BOX, COMPLETE IN PLACE	EA	9	\$2,670.00	\$24,030.00
11	8" AWWA GATE VALVE AND BOX, COMPLETE IN PLACE	EA	11	\$1,500.00	\$16,500.00
12	6" AWWA GATE VALVE AND BOX, COMPLETE IN PLACE	EA	4	\$1,200.00	\$4,800.00
13	WET CONNECTION OF PROPOSED 8" WATER LINE TO EXISTING WATER LINE INCLUDES FITTINGS, ALL ADAPTERS AND CONNECTORS NECESSARY, AND REMOVAL OF EXISTING PLUG & CLAMP AND 2" BLOW-OFF VALVE AND BOX, (ALL DEPTHS), COMPLETE IN PLACE	EA	1	\$860.00	\$860.00
14	WET CONNECTION OF PROPOSED 12" WATER LINE TO EXISTING WATER LINE INCLUDES FITTINGS, ALL ADAPTERS AND CONNECTORS NECESSARY, AND REMOVAL OF EXISTING PLUG & CLAMP AND 2" BLOW-OFF VALVE AND BOX, (ALL DEPTHS), COMPLETE IN PLACE	EA	1	\$1,300.00	\$1,300.00
15	12" X 12" TAPPING SLEEVE AND VALVE & BOX, COMPLETE IN PLACE	EA	2	\$8,300.00	\$16,600.00
16	12" X 8" TAPPING SLEEVE AND VALVE & BOX, COMPLETE IN PLACE	EA	1	\$3,800.00	\$3,800.00
17	REMOVE AND DISPOSE OFFSITE OF EXISTING 12" WATER LINE, ALL DEPTHS, COMPLETE IN PLACE (TO BE COMPLETED AFTER WATER LINE ALONG KINGELM LAKE DRIVE AND BELLEAU LAKE DRIVE IS PUT INTO SERVICE)	LF	812	\$12.00	\$9,744.00
18	REMOVE AND RELOCATE EXISTING FIRE HYDRANT, COMPLETE IN PLACE	EA	1	\$940.00	\$940.00
19	12" PLUG & CLAMP WITH 2" BLOW-OFF VALVE AND BOX ASSEMBLY, COMPLETE IN PLACE	EA	3	\$1,450.00	\$4,350.00
20	8" PLUG & CLAMP WITH 2" BLOW-OFF VALVE AND BOX ASSEMBLY, COMPLETE IN PLACE	EA	2	\$1,350.00	\$2,700.00

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 TO SERVE KATY LAKES SECTION 5
 HARRIS COUNTY MUNICIPAL UTILITY DISTRICT NO. 538
 CITY OF HOUSTON E.T.J., HARRIS COUNTY, TEXAS
 JANUARY 28, 2021
 LJA ENGINEERING, INC.
 A.OTTO
 JANUARY 28, 2021
 2636-0150D (9.2)

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LJA JOB NO.

7) TRIPLE B SERVICES, LLP

ITEM	DESCRIPTION	UNIT	QTY	UNIT COST	TOTAL COST
21	4" PLUG & CLAMP WITH 2" BLOW-OFF VALVE AND BOX ASSEMBLY, COMPLETE IN PLACE	EA	3	\$1,290.00	\$3,870.00
22	ADJUST EXISTING FIRE HYDRANT ASSEMBLY TO PROPOSED GRADE, COMPLETE IN PLACE	EA	3	\$615.00	\$1,845.00
23	WET AUGER FOR 12" WATER LINE, INCLUDES BORE PITS, ALL DEPTHS, COMPLETE IN PLACE	LF	20	\$110.00	\$2,200.00
24	TRENCH SAFETY SYSTEM, ALL SIZES AND DEPTHS, COMPLETE IN PLACE	LF	6153	\$1.25	\$7,691.25
25	DEWATERING FOR WATER LINE, ALL SIZES, ALL DEPTHS (AS DIRECTED BY ENGINEER), COMPLETE IN PLACE	LF	100	\$35.00	\$3,500.00
26	UTILITY SPOILS, INCLUDES HAULING EXCAVATED MATERIAL ON-SITE, STRIPPING, STOCKPILE OF STRIPPINGS, PLACEMENT AND COMPACTION TO 95% STANDARD PROCTOR DENSITY, WITH MAXIMUM 8" LIFTS, FINAL GRADING, AND REAPPLICATION OF STRIPPINGS, COMPLETE IN PLACE	LS	1	\$1.25	\$1.25
27	ADDITIONAL DUCTILE IRON FITTINGS, ALL DEPTHS, COMPLETE IN PLACE	TON	1	\$7,500.00	\$7,500.00
28	PRESSURE TEST AND CHLORINATE PROP. 12" WATER LINE ALONG KINGELM LAKE DRIVE AND BELLEAU LAKE DRIVE PRIOR TO SHUTTING OFF ANY OTHER WATER LINE. RETESTING AND CHLORINATION MAY BE NEEDED DURING STAGE 2 CONSTRUCTION, NO SEPARATE PAY, COMPLETE IN PLACE	LS	1	\$3,500.00	\$3,500.00

WATER ITEMS SUBTOTAL:

\$409,635.50

SANITARY SEWER ITEMS

1	8" PVC SEWER PIPE, ASTM D-2241, SDR 26, 0'-8' CUT, TO INCLUDE BEDDING AND BACKFILL, COMPLETE IN PLACE	LF	1588	\$44.00	\$69,872.00
2	8" PVC SEWER PIPE, ASTM D-2241, SDR 26, 8'-12' CUT, TO INCLUDE BEDDING AND BACKFILL, COMPLETE IN PLACE	LF	1387	\$48.00	\$66,576.00
3	8" PVC SEWER PIPE, AWWA C-900, DR 18, 12'-16' CUT, TO INCLUDE BEDDING AND BACKFILL, COMPLETE IN PLACE	LF	2014	\$57.00	\$114,798.00
4	8" PVC SEWER PIPE, AWWA C-900, DR 18, 16'-20' CUT, TO INCLUDE BEDDING AND BACKFILL, COMPLETE IN PLACE	LF	193	\$76.00	\$14,668.00
5	10" PVC SEWER PIPE, AWWA C-900, DR 18, 12'-16' CUT, TO INCLUDE BEDDING AND BACKFILL, COMPLETE IN PLACE	LF	74	\$67.00	\$4,958.00
6	10" PVC SEWER PIPE, AWWA C-900, DR 18, 16'-20' CUT, TO INCLUDE BEDDING AND BACKFILL, COMPLETE IN PLACE	LF	840	\$71.00	\$59,640.00
7	10" PVC SEWER PIPE, AWWA C-900, DR 18, 20'-24' CUT, TO INCLUDE BEDDING AND BACKFILL, COMPLETE IN PLACE	LF	212	\$78.00	\$16,536.00
8	STANDARD 4' DIAMETER SANITARY SEWER MANHOLE, (0' - 8' DEPTH), INCLUDES ADJUSTMENTS, COMPLETE IN PLACE	EA	53	\$4,350.00	\$230,550.00
9	EXTRA VERTICAL DEPTH FOR 4' DIAMETER SANITARY SEWER MANHOLE (OVER 8' DEPTH), COMPLETE IN PLACE	VF	231	\$126.00	\$29,106.00
10	STANDARD SANITARY SEWER DROP STRUCTURE, ALL SIZES, (0' - 2' DROP), COMPLETE IN PLACE	EA	5	\$990.00	\$4,950.00
11	EXTRA DEPTH ON SANITARY SEWER DROP, (OVER 2' OF DEPTH), COMPLETE IN PLACE	VF	17	\$10.00	\$170.00

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 CITY OF HOUSTON E.T.J., HARRIS COUNTY, TEXAS
 JANUARY 28, 2021
 LJA ENGINEERING, INC.
 A.OTTO
 JANUARY 28, 2021
 2636-0150D (9.2)

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7) TRIPLE B SERVICES, LLP

ITEM	DESCRIPTION	UNIT	QTY	UNIT COST	TOTAL COST
12	LONG SIDE DOUBLE OR SINGLE 6" PVC PIPE SERVICE LEAD, ASTM D-2241, SDR 26, ALL DEPTHS, INCLUDES PIPE, CEMENT STABILIZED SAND BACKFILL, RISER, WYE, PLUG, MARKER, AND ANY NECESSARY FITTINGS, COMPLETE IN PLACE	EA	31	\$2,990.00	\$92,690.00
13	LONG SIDE DOUBLE OR SINGLE 8" PVC PIPE SERVICE LEAD, ASTM D-2241, SDR 26, ALL DEPTHS, INCLUDES PIPE, CEMENT STABILIZED SAND BACKFILL, RISER, WYE, PLUG, MARKER, AND ANY NECESSARY FITTINGS, COMPLETE IN PLACE	EA	3	\$5,400.00	\$16,200.00
14	SHORT SIDE DOUBLE OR SINGLE 6" PVC PIPE SERVICE LEAD, ASTM D-2241, SDR 26, ALL DEPTHS, INCLUDES PIPE, CEMENT STABILIZED SAND BACKFILL, RISER, WYE, PLUG, MARKER, AND ANY NECESSARY FITTINGS, COMPLETE IN PLACE	EA	50	\$2,015.00	\$100,750.00
15	SHORT SIDE DOUBLE OR SINGLE 6" PVC PIPE SERVICE LEAD, ASTM D-2241, SDR 26, ALL DEPTHS, INCLUDES PIPE, TIE INTO EXISTING SANITARY SEWER, CEMENT STABILIZED SAND BACKFILL, RISER, WYE, PLUG, MARKER, AND ANY NECESSARY FITTINGS, COMPLETE IN PLACE	EA	3	\$1,890.00	\$5,670.00
16	LONG SIDE DOUBLE OR SINGLE 6" PVC PIPE SERVICE LEAD, ASTM D-2241, SDR 26, ALL DEPTHS, INCLUDES PIPE, TIE INTO EXISTING SANITARY SEWER, CEMENT STABILIZED SAND BACKFILL, RISER, WYE, PLUG, MARKER, AND ANY NECESSARY FITTINGS, COMPLETE IN PLACE	EA	1	\$4,050.00	\$4,050.00
17	BYPASS PUMPING EXISTING SANITARY SEWER, (TO BE USED ONLY AS DIRECTED BY THE ENGINEER), COMPLETE IN PLACE	LS	1	\$6,000.00	\$6,000.00
18	STANDARD 6" SANITARY SEWER STACK, ALL DEPTHS, COMPLETE IN PLACE	EA	67	\$400.00	\$26,800.00
19	10" SANITARY SEWER PLUG, ALL DEPTHS, COMPLETE IN PLACE	EA	1	\$131.00	\$131.00
20	8" SANITARY SEWER PLUG, ALL DEPTHS, COMPLETE IN PLACE	EA	2	\$70.00	\$140.00
21	ADJUST EXISTING SANITARY SEWER MANHOLE TO FINAL GRADE, COMPLETE IN PLACE	EA	6	\$600.00	\$3,600.00
22	CORE INTO EXISTING SANITARY SEWER MANHOLE AND CONNECT PROPOSED 8" SANITARY SEWER LINE, ALL DEPTHS, COMPLETE IN PLACE	EA	2	\$1,425.00	\$2,850.00
23	CORE INTO EXISTING SANITARY SEWER MANHOLE AND CONNECT PROPOSED 10" SANITARY SEWER LINE, ALL DEPTHS, COMPLETE IN PLACE	EA	1	\$1,425.00	\$1,425.00
24	REMOVE AND OFFSITE DISPOSAL OF EXISTING 8" PLUG AND CONNECT PROPOSED 8" SANITARY SEWER, ALL DEPTHS, COMPLETE IN PLACE	EA	1	\$380.00	\$380.00
25	WET AUGER FOR 8" SANITARY SEWER, INCLUDES BORE PITS, ALL DEPTHS, COMPLETE IN PLACE	LF	20	\$125.00	\$2,500.00
26	WET AUGER FOR 10" SANITARY SEWER, INCLUDES BORE PITS, ALL DEPTHS, COMPLETE IN PLACE	LF	50	\$89.00	\$4,450.00
27	TRENCH SAFETY SYSTEM FOR SANITARY SEWER, ALL DEPTHS AND SIZES, COMPLETE IN PLACE	LF	8620	\$1.90	\$16,378.00
28	DEWATERING FOR SANITARY SEWER, ALL SIZES, ALL DEPTHS, (AS DIRECTED BY ENGINEER), COMPLETE IN PLACE	LF	3333	\$38.00	\$126,654.00
29	ADDITIONAL COST FOR SANITARY SEWER BEDDING FOR UNSATISFACTORY SOIL CONDITIONS (AS DIRECTED BY ENGINEER), COMPLETE IN PLACE	LF	3333	\$10.00	\$33,330.00
30	VIDEO INSPECTION OF SANITARY SEWER, ALL SIZES, INCLUDES DIGITAL COPY, COMPLETE IN PLACE	LF	6308	\$1.00	\$6,308.00

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ITEM	DESCRIPTION	UNIT	QTY	UNIT COST	TOTAL COST
31	UTILITY SPOILS, INCLUDES HAULING EXCAVATED MATERIAL ON-SITE, STRIPPING, STOCKPILE OF STRIPPINGS, PLACEMENT AND COMPACTION TO 95% STANDARD PROCTOR DENSITY, WITH MAXIMUM 8" LIFTS, FINAL GRADING, AND REAPPLICATION OF STRIPPINGS, COMPLETE IN PLACE	LS	1	\$1.25	\$1.25

SANITARY SEWER ITEMS SUBTOTAL:

\$1,062,131.25

DRAINAGE FACILITIES ITEMS

1	24" RCP STORM SEWER, ASTM C-76, CLASS III, INCLUDES BEDDING AND BACKFILL, ALL DEPTHS, COMPLETE IN PLACE	LF	3685	\$80.00	\$294,800.00
2	30" RCP STORM SEWER, ASTM C-76, CLASS III, INCLUDES BEDDING AND BACKFILL, ALL DEPTHS, COMPLETE IN PLACE	LF	340	\$108.00	\$36,720.00
3	36" RCP STORM SEWER, ASTM C-76, CLASS III, INCLUDES BEDDING AND BACKFILL, ALL DEPTHS, COMPLETE IN PLACE	LF	1176	\$141.00	\$165,816.00
4	42" RCP STORM SEWER, ASTM C-76, CLASS III, INCLUDES BEDDING AND BACKFILL, ALL DEPTHS, COMPLETE IN PLACE	LF	489	\$180.00	\$88,020.00
5	54" RCP STORM SEWER, ASTM C-76, CLASS III, INCLUDES BEDDING AND BACKFILL, ALL DEPTHS, COMPLETE IN PLACE	LF	152	\$282.00	\$42,864.00
6	54" CORRUGATED GALVANIZED METAL PIPE, INCLUDES BEDDING AND BACKFILL, ALL DEPTHS, COMPLETE IN PLACE	LF	92	\$235.00	\$21,620.00
7	60" RCP STORM SEWER, ASTM C-76, CLASS III, INCLUDES BEDDING AND BACKFILL, ALL DEPTHS, COMPLETE IN PLACE	LF	310	\$317.00	\$98,270.00
8	6' X 3' REINFORCED CONCRETE BOX CULVERT, ASTM C-1433, INCLUDES BEDDING AND BACKFILL, ALL DEPTHS, COMPLETE IN PLACE	LF	638	\$360.00	\$229,680.00
9	6' X 3' REINFORCED CONCRETE BOX CULVERT FROM SAFETY END TREATMENT TO JUNCTION BOX J-1, ASTM C-1433, INCLUDES BEDDING AND BACKFILL, ALL DEPTHS, COMPLETE IN PLACE	LF	12	\$347.00	\$4,164.00
10	STAGE I - REINFORCED CONCRETE "B-B" INLET, (5' OPENING), ALL DEPTHS, INCLUDES INLET PROTECTION BARRIER FOR STAGE I INLET, COMPLETE IN PLACE	EA	41	\$2,000.00	\$82,000.00
11	STAGE II - REINFORCED CONCRETE "B-B" INLET, (5' OPENING), ALL DEPTHS, COMPLETE IN PLACE	EA	41	\$1,700.00	\$69,700.00
12	STAGE I - MODIFIED TYPE REINFORCED CONCRETE "C-1" INLET, (10' MINIMUM INSIDE OPENING), ALL DEPTHS, INCLUDES INLET PROTECTION BARRIER FOR STAGE I INLET, COMPLETE IN PLACE	EA	1	\$1,950.00	\$1,950.00
13	STAGE II - MODIFIED REINFORCED CONCRETE TYPE "C-1" INLET, (10' MINIMUM INSIDE OPENING), ALL DEPTHS, COMPLETE IN PLACE	EA	1	\$2,250.00	\$2,250.00
14	REINFORCED CONCRETE TYPE "E" INLET, ALL SIDES OPEN, ALL DEPTHS, COMPLETE IN PLACE	EA	1	\$4,200.00	\$4,200.00
15	REINFORCED 8'X8' CONCRETE STORM SEWER JUNCTION BOX WITH REINFORCED CONCRETE TYPE "C" MANHOLE TOP, INCLUDES ADJUSTMENTS, ALL DEPTHS, COMPLETE IN PLACE	EA	5	\$11,800.00	\$59,000.00
16	REINFORCED 8'X8' CONCRETE STORM SEWER JUNCTION BOX J-1 WITH REINFORCED CONCRETE TYPE "C" MANHOLE TOP, INCLUDES ADJUSTMENTS, ALL DEPTHS, COMPLETE IN PLACE	EA	1	\$11,200.00	\$11,200.00

BID TABULATION FOR:

CONSTRUCTION OF THE WATER, SANITARY SEWER AND DRAINAGE FACILITIES
 TO SERVE KATY LAKES SECTION 5
 HARRIS COUNTY MUNICIPAL UTILITY DISTRICT NO. 538
 CITY OF HOUSTON E.T.J., HARRIS COUNTY, TEXAS
 JANUARY 28, 2021
 LJA ENGINEERING, INC.
 A.OTTO
 JANUARY 28, 2021
 2636-0150D (9.2)

BID OPENING DATE:
BID OPENING LOCATION:
TABULATION BY:
TABULATION DATE:
LJA JOB NO.

7) TRIPLE B SERVICES, LLP

ITEM	DESCRIPTION	UNIT	QTY	UNIT COST	TOTAL COST
17	REINFORCED CONCRETE TYPE "C" MANHOLE FOR 42" STORM SEWER AND SMALLER, INCLUDES ADJUSTMENTS, ALL DEPTHS, COMPLETE IN PLACE	EA	40	\$4,700.00	\$188,000.00
18	REINFORCED CONCRETE TYPE "C" MANHOLE FOR 48" STORM SEWER AND LARGER, INCLUDES ADJUSTMENTS, ALL DEPTHS, COMPLETE IN PLACE	EA	7	\$7,200.00	\$50,400.00
19	REINFORCED CONCRETE TYPE "C" MANHOLE FOR 48" STORM SEWER AND LARGER WITH TYPE "E" INLET TOP, INCLUDES ADJUSTMENTS, ALL DEPTHS, COMPLETE IN PLACE	EA	1	\$14,800.00	\$14,800.00
20	8" BRICK PLUG FOR 24" RCP STORM SEWER, ALL DEPTHS, COMPLETE IN PLACE	EA	3	\$700.00	\$2,100.00
21	8" BRICK PLUG FOR 30" RCP STORM SEWER, ALL DEPTHS, COMPLETE IN PLACE	EA	1	\$750.00	\$750.00
22	REMOVE AND DISPOSE OF EXISTING 8" BRICK WALL PLUG AND CONNECT 24" STORM SEWER INTO EXISTING STORM SEWER SYSTEM, COMPLETE IN PLACE	EA	1	\$700.00	\$700.00
23	PLUG AND DRAIN EXISTING SUBMERGED 24" RCP STORM SEWER TO ACCOMMODATE CONSTRUCTION OF THE PROPOSED 24" RCP STORM SEWER CONNECTION, COMPLETE IN PLACE	LS	1	\$750.00	\$750.00
24	TRENCH SAFETY SYSTEM FOR STORM SEWER, ALL SIZES, ALL DEPTHS, COMPLETE IN PLACE	LF	6894	\$1.25	\$8,617.50
25	DEMUCK AND FILL EXISTING TEMPORARY OVERFLOW SWALE, 4' BOTTOM, 3:1 SIDE SLOPES, UPON COMPLETION OF 6'X3' RCB STORM SEWER CONSTRUCTION, COMPLETE IN PLACE	LS	1	\$2,000.00	\$2,000.00
26	DEMUCK AND FILL EXISTING TEMPORARY V-BOTTOM SWALE WITHIN SECTION 5 ROW, 3:1 SIDE SLOPES, COMPLETE IN PLACE	LS	1	\$11,000.00	\$11,000.00
27	DEWATERING FOR STORM SEWER, ALL SIZES, ALL DEPTHS, (AS DIRECTED BY ENGINEER), COMPLETE IN PLACE	LF	402	\$38.00	\$15,276.00
28	ADDITIONAL COST FOR STORM SEWER BEDDING FOR UNSATISFACTORY SOIL CONDITIONS (AS DIRECTED BY ENGINEER), COMPLETE IN PLACE	LF	402	\$10.00	\$4,020.00
29	CONTRACTOR SHALL ADJUST STORM SEWER MANHOLE TO FINAL GRADE, COMPLETE IN PLACE	EA	2	\$615.00	\$1,230.00
30	UTILITY SPOILS, INCLUDES HAULING EXCAVATED MATERIAL ON-SITE, STRIPPING, STOCKPILE OF STRIPPINGS, PLACEMENT AND COMPACTION TO 95% STANDARD PROCTOR DENSITY, WITH MAXIMUM 8" LIFTS, FINAL GRADING, AND REAPPLICATION OF STRIPPINGS, COMPLETE IN PLACE	LS	1	\$1.25	\$1.25
31	REGRADE EXISTING BACK OF LOT, V-BOTTOM DRAINAGE SWALES TO PROPOSED TYPE "E" INLET/24" SAFETY END TREATMENT, COMPLETE IN PLACE	LF	30	\$17.00	\$510.00
32	REGRADE EXISTING 4' BOTTOM OVERFLOW SWALE TO PROPOSED 6'X3' SAFETY END TREATMENT, COMPLETE IN PLACE	LF	62	\$14.00	\$868.00
33	REGRADE EXISTING V-BOTTOM SWALE WITHIN DEWBERRY ISLAND DRIVE TO EXISTING LAKE 4, COMPLETE IN PLACE	LF	1011	\$9.50	\$9,604.50
34	5" REINFORCED CONCRETE SLOPE PAVEMENT WITH TOE WALLS ALL AROUND, COMPLETE IN PLACE	SY	40	\$140.00	\$5,600.00
35	6:1 SAFETY END TREATMENT FOR 24" PIPE CULVERT, INCLUDES PIPE RUNNERS, COMPLETE IN PLACE	EA	1	\$3,000.00	\$3,000.00
36	6:1 SAFETY END TREATMENT FOR 6' X 3' BOX CULVERT, INCLUDES PIPE RUNNERS, COMPLETE IN PLACE	EA	1	\$12,000.00	\$12,000.00

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 CITY OF HOUSTON E.T.J., HARRIS COUNTY, TEXAS
 JANUARY 28, 2021
 LJA ENGINEERING, INC.
 A.OTTO
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TABULATION DATE:
LJA JOB NO.

7) TRIPLE B SERVICES, LLP

ITEM	DESCRIPTION	UNIT	QTY	UNIT COST	TOTAL COST
37	CONSTRUCTION AND REMOVAL OF TEMPORARY COFFER DAM FOR THE CONSTRUCTION OF STORM SEWER OUTFALL, INCLUDES DEWATERING AND ALL APPURTENANCES, ALL SIZES, ALL DEPTHS, (AS DIRECTED BY ENGINEER), COMPLETE IN PLACE	EA	3	\$3,300.00	\$9,900.00

DRAINAGE FACILITIES ITEMS SUBTOTAL: \$1,553,381.25

SANITARY SEWER FORCE MAIN ITEMS

1	10" PVC FORCE MAIN, C-900, DR 18, CLASS 235, ALL DEPTHS, INCLUDES FITTINGS, BEDDING AND BACKFILL, COMPLETE IN PLACE	LF	48	\$85.00	\$4,080.00
2	10" PVC FORCE MAIN, C-900, DR 18, CLASS 235, WITH RESTRAINED JOINTS, INCLUDES FITTINGS, BEDDING AND BACKFILL, ALL DEPTHS, COMPLETE IN PLACE	LF	1784	\$75.00	\$133,800.00
3	10" SANITARY SEWER PLUG AND CLAMP FOR FORCEMAIN, ALL DEPTHS, COMPLETE IN PLACE	EA	2	\$700.00	\$1,400.00
4	CONTRACTOR SHALL LOCATE AND EXPOSE EXISTING WATER LINE, FORCE MAIN, AND DRY UTILITIES IN CONSTRUCTION AREA, ANY DISCREPANCIES WITH THE PLANS SHALL BE REPORTED TO THE ENGINEER, COMPLETE IN PLACE	LS	1	\$1,000.00	\$1,000.00
5	FORCE MAIN AIR RELEASE VALVE WITH ISOLATION VALVE MANHOLE, INCLUDES BOX AND INFLOW PROTECTORS, COMPLETE IN PLACE	EA	1	\$25,000.00	\$25,000.00
6	WET AUGER FOR 10" FORCE MAIN, INCLUDES BORE PITS, ALL DEPTHS, COMPLETE IN PLACE	LF	32	\$75.00	\$2,400.00
7	TRENCH SAFETY SYSTEM FOR SANITARY SEWER, ALL DEPTHS AND SIZES, COMPLETE IN PLACE	LF	1800	\$1.25	\$2,250.00
8	UTILITY SPOILS, INCLUDES HAULING EXCAVATED MATERIAL ON-SITE, STRIPPING, STOCKPILE OF STRIPPINGS, PLACEMENT AND COMPACTION TO 95% STANDARD PROCTOR DENSITY, WITH MAXIMUM 8" LIFTS, FINAL GRADING, AND REAPPLICATION OF STRIPPINGS, COMPLETE IN PLACE	LS	1	\$500.00	\$500.00

SANITARY SEWER FORCE MAIN ITEMS SUBTOTAL: \$170,430.00

MISCELLANEOUS ITEMS

1	INSTALL, MAINTAIN, AND REMOVE REINFORCED FILTER FABRIC FENCE (SILT BARRIER FENCING), COMPLETE IN PLACE	LF	1000	\$2.00	\$2,000.00
2	INSTALL, MAINTAIN, AND REMOVE STABILIZED CONSTRUCTION EXIT, AND REGRADE AREA TO MATCH FINISHED GRADE, COMPLETE IN PLACE	EA	1	\$7,000.00	\$7,000.00
3	EXTRA CEMENT STABILIZED SAND BACKFILL, (1.5 SACKS PER CY), (AS DIRECTED BY ENGINEER), COMPLETE IN PLACE	CY	50	\$41.50	\$2,075.00
4	HYDROMULCH SEEDING AND FINE GRADING, INCLUDES WATERING, TO ACHIEVE 90% HOMOGENEOUS GRASS COVERAGE, (AS DIRECTED BY ENGINEER), COMPLETE IN PLACE	AC	6	\$1,900.00	\$11,400.00
5	BROADCAST SEEDING, INCLUDES FERTILIZING AND WATERING, TO ACHIEVE 90% HOMOGENEOUS GRASS COVERAGE, (AS DIRECTED BY ENGINEER), COMPLETE IN PLACE	AC	31	\$1,300.00	\$40,300.00
6	STORM WATER POLLUTION PREVENTION PLAN COMPLIANCE, INCLUDES GENERAL SOURCE CONTROLS AND ALL ITEMS NOT SPECIFICALLY LISTED IN THE BID PROPOSAL, COMPLETE IN PLACE	LS	1	\$1,250.00	\$1,250.00
7	INSTALL, MAINTAIN, AND REMOVE CONCRETE WASHOUT AREA, COMPLETE IN PLACE	EA	1	\$1,000.00	\$1,000.00

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7) TRIPLE B SERVICES, LLP

ITEM	DESCRIPTION	UNIT	QTY	UNIT COST	TOTAL COST
8	INLET PROTECTION BARRIER FOR STAGE II INLET, COMPLETE IN PLACE	EA	49	\$50.00	\$2,450.00

MISCELLANEOUS ITEMS SUBTOTAL:

\$67,475.00

ALTERNATE DRAINAGE FACILITIES ITEMS

1	60" RCP STORM SEWER, ASTM C-76, CLASS III, INCLUDES BEDDING AND BACKFILL, ALL DEPTHS, TO BE USED IN LIEU OF DRAINAGE FACILITIES ITEM NO. 7, COMPLETE IN PLACE	LF	638	\$320.00	\$204,160.00
2	REINFORCED CONCRETE TYPE "C" MANHOLE FOR 48" STORM SEWER AND LARGER, INCLUDES ADJUSTMENTS, ALL DEPTHS, TO BE USED IN LIEU OF DRAINAGE FACILITIES ITEM NO. 14, COMPLETE IN PLACE	EA	6	\$10,200.00	\$61,200.00

ALTERNATE DRAINAGE FACILITIES ITEMS SUBTOTAL:

\$265,360.00

BIDDING SUMMARY

SUBTOTAL WATER ITEMS	\$409,635.50
SUBTOTAL SANITARY SEWER ITEMS	\$1,062,131.25
SUBTOTAL DRAINAGE FACILITIES ITEMS	\$1,553,381.25
SUBTOTAL SANITARY SEWER FORCE MAIN ITEMS	\$170,430.00
SUBTOTAL MISCELLANEOUS ITEMS	\$67,475.00
TOTAL AMOUNT BASE BID	\$3,263,053.00
<u>ALTERNATE DRAINAGE FACILITIES ITEMS</u>	
TOTAL AMOUNT BASE BID	\$3,263,053.00
DEDUCT DRAINAGE FACILITIES ITEMS ITEM NO.8	-\$229,680.00
DEDUCT DRAINAGE FACILITIES ITEMS ITEM NO.15	-\$59,000.00
SUBTOTAL ALTERNATE DRAINAGE FACILITIES ITEMS	\$265,360.00
TOTAL AMOUNT INCLUDING ALTERNATE DRAINAGE FACILITIES ITEMS	\$3,239,733.00