

BID TABULATION FOR:

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

CONSTRUCTION OF DETENTION & GRADING TO SERVE TAMARRON PHASE VII
FORT BEND COUNTY MUNICIPAL UTILITY DISTRICT NO. 182
CITY OF FULSHEAR E.T.J., FORT BEND COUNTY, TEXAS
DECEMBER 22, 2020
LJA ENGINEERING, INC.
D. FORREST
DECEMBER 23, 2020
1931-1407 (9.2)

BIDDERS NAME	TOTAL AMOUNT BID	BID INCLUDING ALTERNATE BID ITEMS NO. 1	BID INCLUDING ALTERNATE BID ITEMS NO. 2
1) R CONSTRUCTION CIVIL	\$2,797,823.95	\$2,893,573.95	\$4,352,275.95
2) HARRIS CONSTRUCTION COMPANY, LTD.	\$3,772,318.75	\$3,796,106.75	\$4,375,848.75
3) LONGHORN EXCAVATORS, INC.	\$4,190,017.38	\$4,069,797.51	\$6,128,397.30

CALENDAR DAYS 100/110

Melony F. Gay, P.E., hereby certifies these bid tabulations to be true and correct.

Melony F. Gay



Melony F. Gay
12-23-2020

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 LJA ENGINEERING, INC.
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 1931-1407 (9.2)

ITEM	DESCRIPTION	UNIT	QTY	1) R CONSTRUCTION CIVIL		2) HARRIS CONSTRUCTION COMPANY, LTD.		3) LONGHORN EXCAVATORS, INC.	
				UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST
WATER SYSTEM ITEMS									
1	METHOD "A" CONSTRUCTION STAKING BY THE CONTRACTOR, GBI SURVEYING, 281.499.4539, COMPLETE IN PLACE	LS	1	\$45,000.00	\$45,000.00	\$45,000.00	\$45,000.00	\$49,050.00	\$49,050.00
2	AS-BUILT SURVEY OF ALL EXCAVATION AND FILL AREAS (CONTRACTOR'S SURVEYOR TO PROVIDE CERTIFIED TOPOGRAPHIC SURVEY, GRID SPACING SHALL BE 50' MAXIMUM, INCLUDES 3D CAD FORMAT BEFORE FINAL PAYMENT IS MADE), TO BE DONE BY GBI SURVEYING, 281.499.4539, COMPLETE IN PLACE	LS	1	\$25,000.00	\$25,000.00	\$25,000.00	\$25,000.00	\$27,252.00	\$27,252.00
3	MOBILIZATION, INCLUDES BONDS, INSURANCE, CONSTRUCTION PERMITS, ETC., COMPLETE IN PLACE	LS	1	\$115,000.00	\$115,000.00	\$45,000.00	\$45,000.00	\$81,000.00	\$81,000.00
4	16" P.V.C. WATER PIPE, AWWA C-905, DR 18, CLASS 235, ALL DEPTHS, INCLUDES BEDDING AND BACKFILL, COMPLETE IN PLACE	LF	312	\$50.00	\$15,600.00	\$65.00	\$20,280.00	\$59.97	\$18,710.64
5	16" P.V.C. WATER PIPE, AWWA C-905, DR 18, CLASS 235, RESTRAINED JOINT, INCLUDING FITTINGS, JOINTS AND VERTICAL OFFSET ASSEMBLY, ALL DEPTHS, INCLUDES BEDDING AND BACKFILL, COMPLETE IN PLACE	LF	258	\$75.00	\$19,350.00	\$95.00	\$24,510.00	\$124.26	\$32,059.08
6	24" P.V.C. CASING FOR PROPOSED WATER PIPE, COMPLETE IN PLACE	LF	18	\$135.00	\$2,430.00	\$155.00	\$2,790.00	\$136.26	\$2,452.68
7	BORE AND JACK OF PROPOSED 24" P.V.C. CASING FOR PROPOSED WATER PIPE, INCLUDING BORE PITS, AT THE DIRECTION OF THE ENGINEER, ALL DEPTHS, COMPLETE IN PLACE	LF	18	\$160.00	\$2,880.00	\$240.00	\$4,320.00	\$218.10	\$3,925.80
8	16" AWWA BUTTERFLY VALVE (MUELLER) & BOX, COMPLETE IN PLACE	EA	1	\$5,000.00	\$5,000.00	\$6,500.00	\$6,500.00	\$3,816.00	\$3,816.00
9	16" PLUG & CLAMP, COMPLETE IN PLACE	EA	1	\$500.00	\$500.00	\$1,100.00	\$1,100.00	\$1,092.00	\$1,092.00
10	2" BLOW OFF ASSEMBLY BOX, COMPLETE IN PLACE	EA	1	\$800.00	\$800.00	\$800.00	\$800.00	\$381.51	\$381.51
11	DUCTILE IRON WATERLINE FITTINGS, COMPLETE IN PLACE	TON	0.68	\$9,000.00	\$6,120.00	\$14,500.00	\$9,860.00	\$5,451.00	\$3,706.68
12	TRENCH SAFETY SYSTEM, ALL DEPTHS, COMPLETE IN PLACE	LF	570	\$1.00	\$570.00	\$2.00	\$1,140.00	\$1.11	\$632.70
13	REMOVE AND DISPOSE EXISTING PLUG & CLAMP AND BLOW-OFF VALVE AND CONNECT PROPOSED WATER LINE, INCLUDES ALL NECESSARY ADAPTERS AND CONNECTORS, AND DISINFECTION OF EXISTING WATERLINE AS NEEDED, (ALL SIZES), COMPLETE IN PLACE	EA	1	\$800.00	\$800.00	\$1,500.00	\$1,500.00	\$1,635.00	\$1,635.00
14	INSTALLATION, MAINTENANCE AND REMOVAL OF STABILIZED CONSTRUCTION EXIT, SWMHCA SPECIFICATION NO. 4711, INCLUDES INSTALLATION AND REMOVAL (TO BE USED ONLY AS DIRECTED BY THE ENGINEER), COMPLETE IN PLACE	EA	2	\$500.00	\$1,000.00	\$2,000.00	\$4,000.00	\$1,800.00	\$3,600.00
15	CONCRETE WASHOUT AREA, AS DIRECTED BY THE ENGINEER, COMPLETE IN PLACE	EA	2	\$500.00	\$1,000.00	\$1,000.00	\$2,000.00	\$1,800.00	\$3,600.00
16	REINFORCED FILTER FABRIC FENCE, (TO BE USED ONLY AS DIRECTED BY THE ENGINEER), COMPLETE IN PLACE	LF	22000	\$1.60	\$35,200.00	\$1.60	\$35,200.00	\$1.62	\$35,640.00
17	SILT FENCE INLET PROTECTION BARRIERS, SWMHCA SPECIFICATION NO.4511, (TO BE USED ONLY AS DIRECTED BY THE ENGINEER), COMPLETE IN PLACE	EA	39	\$10.00	\$390.00	\$50.00	\$1,950.00	\$174.42	\$6,802.38
18	STORM WATER POLLUTION PREVENTION PLAN COMPLIANCE, INCLUDING CONTRACTOR BOOKLET, NOI AND NOT, COMPLETE IN PLACE	LS	1	\$1,000.00	\$1,000.00	\$1,200.00	\$1,200.00	\$3,690.00	\$3,690.00
19	EXTRA CEMENT STABILIZED SAND, TO BE USED AT DIRECTION OF THE ENGINEER, COMPLETE IN PLACE	CY	1000	\$38.00	\$38,000.00	\$60.00	\$60,000.00	\$41.43	\$41,430.00
20	ESTABLISH AND MAINTAIN HAUL ROAD THROUGHOUT DURATION OF CONSTRUCTION, COMPLETE IN PLACE	LF	6500	\$2.50	\$16,250.00	\$2.50	\$16,250.00	\$2.58	\$16,770.00
21	INSTALL, MAINTAIN, AND REMOVE DIRT ROAD CROSSING ACROSS EXISTING RILEYS RIDGE BLVD, COMPLETE IN PLACE	EA	1	\$3,500.00	\$3,500.00	\$10,000.00	\$10,000.00	\$6,900.00	\$6,900.00

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 D. FORREST
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 1931-1407 (9.2)

ITEM	DESCRIPTION	UNIT	QTY	1) R CONSTRUCTION CIVIL		2) HARRIS CONSTRUCTION COMPANY, LTD.		3) LONGHORN EXCAVATORS, INC.	
				UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST
22	INSTALL, MAINTAIN, AND REMOVE 24" RCP CULVERTS FOR TEMPORARY HAUL ROAD	LF	32	\$75.00	\$2,400.00	\$100.00	\$3,200.00	\$69.00	\$2,208.00
23	MAINTAIN TAMARRON TRACE AND TAMARRON PARKWAY THROUGHOUT CONSTRUCTION DURATION, INCLUDES DAILY CLEANING AND SWEEPING TO MAINTAIN TRAFFIC FLOW	LS	1	\$3,500.00	\$3,500.00	\$10,000.00	\$10,000.00	\$21,900.00	\$21,900.00
24	ALLOWANCE FOR FORT BEND COUNTY PERMIT FOR WORK INSIDE RIGHT OF WAY, AS NECESSARY, COMPLETE IN PLACE	EA	1	\$1,500.00	\$1,500.00	\$1,500.00	\$1,500.00	\$1,500.00	\$1,500.00
25	TEMPORARY TRAFFIC CONTROL ALONG TAMARRON TRACE AND TAMARRON PARKWAY TO MAINTAIN FLOW OF TRAFFIC THROUGHOUT DURATION OF CONSTRUCTION, INCLUDES SIGNAGE AND FLAGMEN, AS NECESSARY, COMPLETE IN PLACE	LS	1	\$10,000.00	\$10,000.00	\$10,000.00	\$10,000.00	\$36,900.00	\$36,900.00
26	RESTORE EXISTING CRUSHED CONCRETE ACCESS ROAD TO EXISTING OR BETTER CONDITION AS DIRECTED BY THE ENGINEER, COMPLETE IN PLACE	LF	3620	\$15.00	\$54,300.00	\$15.00	\$54,300.00	\$15.00	\$54,300.00
27	AT GRADE PIPELINE CROSSINGS, PER KINDER MORGAN, AS NEEDED AND DIRECTED BY ENGINEER, INCLUDES MATS AS NECESSARY AND ALL APPURTENANCES, COMPLETE IN PLACE	EA	3	\$3,500.00	\$10,500.00	\$5,000.00	\$15,000.00	\$12,000.00	\$36,000.00
28	UTILITY SPOILS TO BE USED AS FILL FOR FUTURE TAMARRON POINT, INCLUDES EXCAVATION, HAULING, PLACING, PREPARATION OF FILL AREAS, AND COMPACTION TO 95% STANDARD PROCTOR DENSITY WITH MAXIMUM 8" LOOSE LIFTS AS DIRECTED BY THE ENGINEER, COMPLETE IN PLACE	CY	6170	\$2.00	\$12,340.00	\$3.00	\$18,510.00	\$9.69	\$59,787.30
29	CITY OF FULSHEAR INSPECTION FEE (0.75% OF THE TOTAL CONTRACT AMOUNT), TO BE PAID AT THE TIME OF PRECONSTRUCTION MEETING, COMPLETE IN PLACE	LS	1	\$20,895.00	\$20,895.00	\$35,000.00	\$35,000.00	\$31,068.00	\$31,068.00
WATER SYSTEM ITEMS SUBTOTAL:					\$450,825.00		\$465,910.00		\$587,809.77
SANITARY SEWER ITEMS									
1	REMOVE AND DISPOSE OF EXISTING 18" P.V.C. SEWER PIPE, ALL DEPTHS, COMPLETE IN PLACE	LF	172	\$50.00	\$8,600.00	\$40.00	\$6,880.00	\$27.27	\$4,690.44
2	REMOVE AND DISPOSE OF EXISTING SANITARY SEWER MANHOLE FOR 6"-24" SANITARY, ALL DEPTHS, COMPLETE IN PLACE	LF	1	\$1,000.00	\$1,000.00	\$1,000.00	\$1,000.00	\$1,092.00	\$1,092.00
3	INSTALL, MAINTAIN, AND REMOVE TEMPORARY SANITARY SEWER PLUG, ALL DEPTHS, ALL SIZES, COMPLETE IN PLACE	EA	2	\$200.00	\$400.00	\$1,750.00	\$3,500.00	\$1,092.00	\$2,184.00
4	BYPASS SANITARY SEWER PUMPING THROUGHOUT CONSTRUCTION DURATION TO MAINTAIN EXISTING SANITARY SEWAGE FLOW, INCLUDES ALL APPURTENANCES, ASSUME 275,000 GPD, COMPLETE IN PLACE	LS	1	\$7,000.00	\$7,000.00	\$15,000.00	\$15,000.00	\$32,700.00	\$32,700.00
5	18" P.V.C. SEWER PIPE, AWWA C-905, DR 18, CLASS 235, OVER 16' DEPTH, INCLUDES BEDDING AND BACKFILL, COMPLETE IN PLACE	LF	149	\$120.00	\$17,880.00	\$225.00	\$33,525.00	\$101.37	\$15,104.13
6	STANDARD SANITARY SEWER MANHOLE FOR 6" - 24" SANITARY SEWER PIPES, (0' - 8' DEPTH), INCLUDING INFLOW PROTECTOR AND RAMNEK AT ALL JOINTS, COMPLETE IN PLACE	EA	2	\$2,000.00	\$4,000.00	\$4,500.00	\$9,000.00	\$3,762.00	\$7,524.00
7	EXTRA DEPTH OF SANITARY SEWER MANHOLES, (OVER 8' DEPTH), COMPLETE IN PLACE	VF	27.53	\$130.00	\$3,578.90	\$400.00	\$11,012.00	\$378.00	\$10,406.34
8	FINAL ADJUSTMENTS TO SANITARY MANHOLES, INCLUDING EXISTING MANHOLES, COMPLETE IN PLACE	EA	6	\$300.00	\$1,800.00	\$750.00	\$4,500.00	\$109.20	\$655.20
9	DEWATERING PER LF OF PIPE (NO SEPARATE PAY FOR DOUBLE ROW IF NEEDED), (ALL DEPTHS, THIS IS AN ESTIMATED QUANTITY TO BE USED ONLY AT THE DIRECTION OF THE ENGINEER), COMPLETE IN PLACE	LF	321	\$20.00	\$6,420.00	\$40.00	\$12,840.00	\$32.70	\$10,496.70
10	T.V. INSPECTION OF SANITARY SEWER LINES, (TO BE USED ONLY AT THE DIRECTION OF THE ENGINEER), COMPLETE IN PLACE	LF	321	\$3.00	\$963.00	\$3.00	\$963.00	\$5.46	\$1,752.66

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				UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST
11	TRENCH SAFETY SYSTEM, ALL DEPTHS, COMPLETE IN PLACE	LF	321	\$1.00	\$321.00	\$2.00	\$642.00	\$1.11	\$356.31
12	CONNECT EXISTING SANITARY SEWER TO PROPOSED SANITARY SEWER MANHOLE, INCLUDES ALL NECESSARY FITTINGS AND APURTENANCES, ALL DEPTHS, ALL SIZES, COMPLETE IN PLACE	EA	2	\$1,000.00	\$2,000.00	\$5,000.00	\$10,000.00	\$2,727.00	\$5,454.00
SANITARY SEWER ITEMS SUBTOTAL:					\$53,962.90		\$108,862.00		\$92,415.78
DRAINAGE IMPROVEMENT ITEMS									
1	LAKE M-L OUTFALL #1 - 4'X2' R.C.B. STORM SEWER BOX CULVERT, ASTM C-1433, ALL DEPTHS, INCLUDES INTERNAL SEAL PER CITY OF FULSHEAR STANDARDS, COMPLETE IN PLACE	LF	1763	\$200.00	\$352,600.00	\$245.00	\$431,935.00	\$283.41	\$499,651.83
2	LAKE M-L OUTFALL #1 - TYPE "C" MANHOLE FOR 42" STORM SEWERS AND SMALLER, ALL DEPTHS, COMPLETE IN PLACE	EA	6	\$2,000.00	\$12,000.00	\$2,500.00	\$15,000.00	\$3,270.00	\$19,620.00
3	LAKE M-L OUTFALL #1 - FINAL ADJUSTMENT OF MANHOLE RIM ELEVATION AND TYPE "E" INLET TOPS, PROPOSED AND EXISTING, AS DIRECTED BY THE ENGINEER, COMPLETE IN PLACE	EA	6	\$300.00	\$1,800.00	\$500.00	\$3,000.00	\$546.00	\$3,276.00
4	LAKE M-L OUTFALL #1 - TRENCH SAFETY SYSTEM, ALL DEPTHS, COMPLETE IN PLACE	LF	1763	\$0.10	\$176.30	\$2.00	\$3,526.00	\$1.11	\$1,956.93
5	LAKE M-L OUTFALL #1 - 4" CONCRETE SLOPE PAVING WITH 2' MINIMUM TOE WALLS ALL AROUND, 2' CLAY LINER BELOW ALL SLOPE PAVING, AND EXPANSION JOINTS, COMPLETE IN PLACE	SY	280	\$85.00	\$23,800.00	\$75.00	\$21,000.00	\$147.15	\$41,202.00
6	LAKE M-L OUTFALL #1 - 18" RIP RAP, COMPLETE IN PLACE	SY	145	\$80.00	\$11,600.00	\$85.00	\$12,325.00	\$109.20	\$15,834.00
7	LAKE M-L OUTFALL #2 - 4'X2' R.C.B. STORM SEWER BOX CULVERT, ASTM C-1433, ALL DEPTHS, INCLUDES INTERNAL SEAL PER CITY OF FULSHEAR STANDARDS, COMPLETE IN PLACE	LF	810	\$200.00	\$162,000.00	\$245.00	\$198,450.00	\$283.41	\$229,562.10
8	LAKE M-L OUTFALL #2 - TYPE "C" MANHOLE FOR 42" STORM SEWERS AND SMALLER, ALL DEPTHS, COMPLETE IN PLACE	EA	3	\$1,800.00	\$5,400.00	\$2,500.00	\$7,500.00	\$3,270.00	\$9,810.00
9	LAKE M-L OUTFALL #2 - FINAL ADJUSTMENT OF MANHOLE RIM ELEVATION AND TYPE "E" INLET TOPS, PROPOSED AND EXISTING, AS DIRECTED BY THE ENGINEER, COMPLETE IN PLACE	EA	3	\$300.00	\$900.00	\$500.00	\$1,500.00	\$546.00	\$1,638.00
10	LAKE M-L OUTFALL #2 - TRENCH SAFETY SYSTEM, ALL DEPTHS, COMPLETE IN PLACE	LF	810	\$0.10	\$81.00	\$2.00	\$1,620.00	\$1.11	\$899.10
11	LAKE M-L OUTFALL #2 - 4" REINFORCED CONCRETE SLOPE PAVING WITH 2' MINIMUM TOE WALLS ALL AROUND, 2' CLAY LINER BELOW ALL SLOPE PAVING, AND EXPANSION JOINTS, COMPLETE IN PLACE	SY	80	\$85.00	\$6,800.00	\$75.00	\$6,000.00	\$147.15	\$11,772.00
12	LAKE M-L OUTFALL #2 - 18" RIP RAP, COMPLETE IN PLACE	SY	33	\$80.00	\$2,640.00	\$85.00	\$2,805.00	\$109.20	\$3,603.60
13	LAKE M-L OUTFALL #2 - 6" REINFORCED CONCRETE CHANNEL BOTTOM, COMPLETE IN PLACE	SY	28	\$225.00	\$6,300.00	\$205.00	\$5,740.00	\$218.10	\$6,106.80
14	LAKE M-L OUTFALL #2 - TYPE A WEEP, COMPLETE IN PLACE	EA	5	\$900.00	\$4,500.00	\$950.00	\$4,750.00	\$546.00	\$2,730.00
15	LAKE M-L OUTFALL #2 - 6" REINFORCED CONCRETE HEADWALL, COMPLETE IN PLACE	LF	55	\$800.00	\$44,000.00	\$1,250.00	\$68,750.00	\$546.00	\$30,030.00
16	LAKE M-L OUTFALL #2 - 5" REINFORCED CONCRETE SLOPE PAVING WITH 2' MINIMUM TOE WALLS ALL AROUND, 2' CLAY LINER BELOW ALL SLOPE PAVING, AND EXPANSION JOINTS, COMPLETE IN PLACE	SY	38	\$85.00	\$3,230.00	\$85.00	\$3,230.00	\$147.15	\$5,591.70
17	LAKE H BOX CULVERTS - 6'X4' R.C.B. STORM SEWER BOX CULVERT, ASTM C-1433, ALL DEPTHS, INCLUDES INTERNAL SEAL PER CITY OF FULSHEAR STANDARDS, COMPLETE IN PLACE	LF	490	\$420.00	\$205,800.00	\$450.00	\$220,500.00	\$490.50	\$240,345.00
18	LAKE H BOX CULVERTS - COFFER DAM, INCLUDING INSTALLATION, MAINTENANCE, AND REMOVAL, COMPLETE IN PLACE	EA	2	\$3,500.00	\$7,000.00	\$5,000.00	\$10,000.00	\$4,500.00	\$9,000.00

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19	LAKE H BOX CULVERTS - TRENCH SAFETY SYSTEM, ALL DEPTHS, COMPLETE IN PLACE	LF	490	\$0.10	\$49.00	\$2.00	\$980.00	\$1.11	\$543.90
20	LAKE H BOX CULVERTS - SAWCUT, REMOVE, AND DISPOSE EXISTING 4" REINFORCED CONCRETE SLOPE PAVING, COMPLETE IN PLACE	SY	56	\$25.00	\$1,400.00	\$65.00	\$3,640.00	\$109.20	\$6,115.20
21	LAKE H BOX CULVERTS - 4" CONCRETE SLOPE PAVING WITH 2' MINIMUM TOE WALLS ALL AROUND, 2' CLAY LINER BELOW ALL SLOPE PAVING, AND EXPANSION JOINTS, INCLUDES DOWEL CONNECTION TO EXISTING SLOPE PAVING, COMPLETE IN PLACE	SY	146	\$85.00	\$12,410.00	\$75.00	\$10,950.00	\$147.15	\$21,483.90
22	LAKE H BOX CULVERTS - 18" RIP RAP, COMPLETE IN PLACE	SY	100	\$80.00	\$8,000.00	\$105.00	\$10,500.00	\$109.20	\$10,920.00
DRAINAGE IMPROVEMENT ITEMS SUBTOTAL:					\$872,486.30		\$1,043,701.00		\$1,171,692.06
CHANNEL M DETENTION IMPROVEMENT ITEMS									
1	CLEARING, GRUBBING, AND STRIPPING OF CHANNEL M - BRUSH TO BE HAULED OFFSITE (INCLUDES REMOVAL OF TREES), TO BE USED ONLY AS DIRECTED BY THE ENGINEER, COMPLETE IN PLACE	AC	10.7	\$800.00	\$8,560.00	\$2,000.00	\$21,400.00	\$900.00	\$9,630.00
2	DEWATERING OF CHANNEL M TO ALLOW FOR EXCAVATION AND CONSTRUCTION OPERATIONS, TO BE USED ONLY AS DIRECTED BY THE ENGINEER, COMPLETE IN PLACE	LF	1610	\$20.00	\$32,200.00	\$20.00	\$32,200.00	\$21.00	\$33,810.00
3	EXCAVATION, TO INCLUDE SITE PREPARATION, PROOF ROLLING OF FILL AREAS, DEMUCKING OF ANY UNSUITABLE SOILS WITHIN ANY FILL PLACEMENT AREA, HAULING, STRIPPING, PLACEMENT AND COMPACTION TO 95% STANDARD PROCTOR DENSITY (ASTM D698) OF CHANNEL M TO BE USED AS ON SITE FILL FOR CHANNEL M, AS INDICATED ON PLANS, COMPLETE IN PLACE	CY	9586	\$2.75	\$26,361.50	\$2.75	\$26,361.50	\$3.69	\$35,372.34
4	EXCAVATION, TO INCLUDE SITE PREPARATION, PROOF ROLLING OF FILL AREAS, DEMUCKING OF ANY UNSUITABLE SOILS WITHIN ANY FILL PLACEMENT AREA, HAULING, STRIPPING, PLACEMENT AND COMPACTION TO 95% STANDARD PROCTOR DENSITY (ASTM D698) OF DETENTION PORTION OF CHANNEL M TO BE HAULED TO FUTURE TAMARRON COMMERCIAL FILL AREA, +/- 0.4 MILES, ASSUMES OFFROAD TRUCKS, AS INDICATED ON PLANS, COMPLETE IN PLACE	CY	30432	\$2.75	\$83,688.00	\$3.25	\$98,904.00	\$3.69	\$112,294.08
5	EXCAVATION, TO INCLUDE SITE PREPARATION, PROOF ROLLING OF FILL AREAS, DEMUCKING OF ANY UNSUITABLE SOILS WITHIN ANY FILL PLACEMENT AREA, HAULING, STRIPPING, PLACEMENT AND COMPACTION TO 95% STANDARD PROCTOR DENSITY (ASTM D698) OF DETENTION PORTION OF CHANNEL M TO BE HAULED TO FUTURE TAMARRON SECTION 80 FILL AREA, +/- 2.5 MILES, ASSUMES ON ROAD TRUCKS, AS INDICATED ON PLANS, COMPLETE IN PLACE	CY	21235	\$5.50	\$116,792.50	\$7.25	\$153,953.75	\$9.69	\$205,767.15
6	CLEARING, GRUBBING, AND STRIPPING OF PROPOSED FILL AREA FOR FUTURE TAMARRON COMMERCIAL - BRUSH TO BE HAULED OFFSITE (INCLUDES REMOVAL OF TREES), TO BE USED ONLY AS DIRECTED BY THE ENGINEER, COMPLETE IN PLACE	AC	4.5	\$800.00	\$3,600.00	\$2,000.00	\$9,000.00	\$900.00	\$4,050.00
7	HYDRO-MULCH SEEDING OF MAINTENANCE BERMS, AND SIDE SLOPES, AND CHANNEL BOTTOM OF CHANNEL M, INCLUDES WATERING, FERTILIZATION, AND MAINTENANCES AS NEEDED TO ESTABLISH GRASS GROWTH, ALL AREAS WILL NEED TO HAVE AT LEAST 90% GRASS COVERAGE BEFORE CONTRACTOR'S RETAINAGE WILL BE RELEASED, CONTRACTOR TO CONTRACT JERRY SCHROEDER AT CHAMPIONS HYDRO-LAWN @ 713-703-3516, COMPLETE IN PLACE	AC	10.7	\$3,150.00	\$33,705.00	\$3,400.00	\$36,380.00	\$3,435.00	\$36,754.50
8	BROADCAST SEEDING OF FILL AREA, COMMERCIAL AREA, COMPLETE IN PLACE	AC	8	\$600.00	\$4,800.00	\$750.00	\$6,000.00	\$600.00	\$4,800.00

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CONSTRUCTION OF DETENTION & GRADING TO SERVE TAMARRON PHASE VII
 FORT BEND COUNTY MUNICIPAL UTILITY DISTRICT NO. 182
 CITY OF FULSHEAR E.T.J., FORT BEND COUNTY, TEXAS
 DECEMBER 22, 2020
 LJA ENGINEERING, INC.
 D. FORREST
 DECEMBER 23, 2020
 1931-1407 (9.2)

ITEM	DESCRIPTION	UNIT	QTY	1) R CONSTRUCTION CIVIL		2) HARRIS CONSTRUCTION COMPANY, LTD.		3) LONGHORN EXCAVATORS, INC.	
				UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST
9	BACKSLOPE DRAIN INTERCEPTOR STRUCTURES, INCLUDING ALL PIPES, SLOPE PAVING WITH REINFORCING STEEL AT INFLOW AND OUTFLOW, RIP RAP, NECESSARY ADAPTORS, JOINTS AND FITTINGS, ETC., SPOILS TO BE HAULED, PLACED, AND COMPACTED TO 95% STANDARD PROCTOR DENSITY WITH MAXIMUM 8" LIFTS IN FILL AREAS, TO BE APPROVED BY ENGINEER, COMPLETE IN PLACE	EA	2	\$7,500.00	\$15,000.00	\$10,950.00	\$21,900.00	\$19,077.00	\$38,154.00
10	3:1 V-BOTTOM DRAINAGE SWALES, INCLUDING HYDROMULCH AND WATERING, COMPLETE IN PLACE	LF	1630	\$3.00	\$4,890.00	\$4.00	\$6,520.00	\$4.20	\$6,846.00
11	REGRADE AND RE-ESTABLISH FLEWELLAN CREEK, PER PLANS, COMPLETE IN PLACE	LF	1610	\$3.00	\$4,830.00	\$4.00	\$6,440.00	\$15.00	\$24,150.00
12	REGRADE EXISTING DRAINAGE SWALE, ALONG HL&P EASEMENT, INCLUDES DEMUCKING, SCARIFYING, AND HYDROMULCH/WATERING, PER PLANS, COMPLETE IN PLACE	LF	1245	\$3.00	\$3,735.00	\$4.00	\$4,980.00	\$4.59	\$5,714.55
13	FINAL ADJUSTMENT OF MANHOLE RIM ELEVATION AND TYPE "E" INLET TOPS, PROPOSED AND EXISTING, COMPLETE IN PLACE	EA	4	\$300.00	\$1,200.00	\$500.00	\$2,000.00	\$546.00	\$2,184.00
14	EXISTING OUTFALL WITH 4" REINFORCED CONCRETE SLOPE PAVING TO BE ADJUSTED, AS NECESSARY, ALL SIZES, COMPLETE IN PLACE	EA	3	\$5,000.00	\$15,000.00	\$5,000.00	\$15,000.00	\$6,540.00	\$19,620.00
15	24" R.C.P. STORM SEWER, ASTM C-76, CLASS III, ALL DEPTHS, COMPLETE IN PLACE	LF	78	\$60.00	\$4,680.00	\$110.00	\$8,580.00	\$81.75	\$6,376.50
16	STANDARD TYPE "E" INLET, ALL DEPTHS, COMPLETE IN PLACE	EA	1	\$3,000.00	\$3,000.00	\$3,800.00	\$3,800.00	\$3,816.00	\$3,816.00
17	TRENCH SAFETY SYSTEM, ALL DEPTHS, COMPLETE IN PLACE	LF	78	\$1.00	\$78.00	\$2.00	\$156.00	\$1.11	\$86.58
18	18" RIP RAP, COMPLETE IN PLACE	SY	69	\$80.00	\$5,520.00	\$105.00	\$7,245.00	\$109.20	\$7,534.80
CHANNEL M DETENTION IMPROVEMENT ITEMS SUBTOTAL:					\$367,640.00		\$460,820.25		\$556,960.50
CHANNEL L DETENTION IMPROVEMENT ITEMS									
1	CLEARING, GRUBBING, AND STRIPPING OF CHANNEL L - BRUSH TO BE HAULED OFFSITE (INCLUDES REMOVAL OF TREES), TO BE USED ONLY AS DIRECTED BY THE ENGINEER, COMPLETE IN PLACE	AC	15.2	\$800.00	\$12,160.00	\$2,000.00	\$30,400.00	\$900.00	\$13,680.00
2	DEWATERING OF CHANNEL L TO ALLOW FOR EXCAVATION AND CONSTRUCTION OPERATIONS, TO BE USED ONLY AS DIRECTED BY THE ENGINEER, COMPLETE IN PLACE	LF	1043	\$20.00	\$20,860.00	\$20.00	\$20,860.00	\$21.00	\$21,903.00
3	EXCAVATION, TO INCLUDE SITE PREPARATION, PROOF ROLLING OF FILL AREAS, DEMUCKING OF ANY UNSUITABLE SOILS WITHIN ANY FILL PLACEMENT AREA, HAULING, STRIPPING, PLACEMENT AND COMPACTION TO 95% STANDARD PROCTOR DENSITY (ASTM D698) OF CHANNEL L TO BE USED AS ON SITE FILL FOR CHANNEL L, AS INDICATED ON PLANS, COMPLETE IN PLACE	CY	6859	\$2.75	\$18,862.25	\$2.75	\$18,862.25	\$3.69	\$25,309.71
4	EXCAVATION, TO INCLUDE SITE PREPARATION, PROOF ROLLING OF FILL AREAS, DEMUCKING OF ANY UNSUITABLE SOILS WITHIN ANY FILL PLACEMENT AREA, HAULING, STRIPPING, PLACEMENT AND COMPACTION TO 95% STANDARD PROCTOR DENSITY (ASTM D698) OF DETENTION PORTION OF CHANNEL L TO BE HAULED TO FUTURE TAMARRON SECTION 60 FILL AREA, +/- 2.5 MILES, ASSUMES ON ROAD TRUCKS, AS INDICATED ON PLANS, COMPLETE IN PLACE	CY	49765	\$5.50	\$273,707.50	\$7.25	\$360,796.25	\$9.69	\$482,222.85
5	LIGHT CLEARING, GRUBBING, AND STRIPPING OF PROPOSED FILL AREA FOR FUTURE TAMARRON SECTION 60 - BRUSH TO BE HAULED OFFSITE, TO BE USED ONLY AS DIRECTED BY THE ENGINEER, COMPLETE IN PLACE	AC	28.5	\$800.00	\$22,800.00	\$2,000.00	\$57,000.00	\$900.00	\$25,650.00

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				UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST
6	HYDRO-MULCH SEEDING OF MAINTENANCE BERMS, AND SIDE SLOPES, AND CHANNEL BOTTOM OF CHANNEL L, INCLUDES WATERING, FERTILIZATION, AND MAINTENANCES AS NEEDED TO ESTABLISH GRASS GROWTH, ALL AREAS WILL NEED TO HAVE AT LEAST 90% GRASS COVERAGE BEFORE CONTRACTOR'S RETAINAGE WILL BE RELEASED, CONTRACTOR TO CONTRACT JERRY SCHROEDER AT CHAMPIONS HYDRO-LAWN ☎ 713-703-3516, COMPLETE IN PLACE	AC	15.2	\$3,150.00	\$47,880.00	\$3,400.00	\$51,680.00	\$3,435.00	\$52,212.00
7	BROADCAST SEEDING OF FILL AREA, FUTURE TAMARRON SECTION 60, COMPLETE IN PLACE	AC	28.5	\$600.00	\$17,100.00	\$750.00	\$21,375.00	\$600.00	\$17,100.00
8	3:1 V-BOTTOM DRAINAGE SWALES, INCLUDING HYDROMULCH AND WATERING, COMPLETE IN PLACE	LF	1977	\$3.00	\$5,931.00	\$4.00	\$7,908.00	\$4.20	\$8,303.40
9	REGRADE AND RE-ESTABLISH FLEWELLAN CREEK, PER PLANS, COMPLETE IN PLACE	LF	1333	\$3.00	\$3,999.00	\$4.00	\$5,332.00	\$15.00	\$19,995.00
10	TYPE "E" INLET WITH 24" R.C.P. OUTFALL PIPE AND OUTFALL SLOPE PAVING PER BACK SLOPE INTERCEPTOR STRUCTURE DETAIL, COMPLETE IN PLACE	EA	2	\$8,000.00	\$16,000.00	\$3,800.00	\$7,600.00	\$4,905.00	\$9,810.00
11	EXISTING 24" CGMP OUTFALL PIPE TO BE ADJUSTED TO PROPOSED SIDE SLOPE, INCLUDES OUTFALL SLOPE PAVING PER BACK SLOPE INTERCEPTOR STRUCTURE DETAIL, COMPLETE IN PLACE	EA	1	\$1,000.00	\$1,000.00	\$3,500.00	\$3,500.00	\$2,727.00	\$2,727.00
12	REMOVE AND DISPOSE EXISTING 36" R.C.P. STORM SEWER, ALL DEPTHS, COMPLETE IN PLACE	LF	232	\$15.00	\$3,480.00	\$16.00	\$3,712.00	\$27.27	\$6,326.64
13	PERMANENT CONCRETE PLUGS FOR EXISTING 36" R.C.P. UNDER EXISTING FORCE MAIN, COMPLETE IN PLACE	LF	8	\$500.00	\$4,000.00	\$350.00	\$2,800.00	\$109.20	\$873.60
14	REMOVE AND DISPOSE OF EXISTING 36" R.C.P. OUTFALL STRUCTURE, INCLUDES SLOPE PAVING AND RIP RAP, COMPLETE IN PLACE	EA	1	\$2,000.00	\$2,000.00	\$1,500.00	\$1,500.00	\$5,451.00	\$5,451.00
15	REMOVE AND DISPOSE OF EXISTING TYPE "E" INLET, ALL DEPTHS, COMPLETE IN PLACE	EA	1	\$1,000.00	\$1,000.00	\$750.00	\$750.00	\$1,635.00	\$1,635.00
16	CLEARING, GRUBBING, STRIPPING AND DEMUCKING OF WWTP DITCH - BRUSH TO BE HAULED OFFSITE (INCLUDES REMOVAL OF TREES), TO BE USED ONLY AS DIRECTED BY THE ENGINEER, COMPLETE IN PLACE	AC	1	\$800.00	\$800.00	\$2,000.00	\$2,000.00	\$2,100.00	\$2,100.00
17	FILL WWTP SWALE TO 95% STANDARD PROCTOR DENSITY USING ADJACENT STOCKPILE MATERIAL, COMPLETE IN PLACE	CY	5200	\$3.00	\$15,600.00	\$3.50	\$18,200.00	\$3.69	\$19,188.00
18	REGRADE EXISTING DRAINAGE SWALE, INCLUDES DEMUCKING, SCARIFYING, AND HYDROMULCH/WATERING, COMPLETE IN PLACE	LF	60	\$15.00	\$900.00	\$10.00	\$600.00	\$69.00	\$4,140.00
19	HYDRO-MULCH SEEDING OF WWTP DITCH FILL AREA, INCLUDES WATERING, FERTILIZATION, AND MAINTENANCE AS NEEDED TO ESTABLISH GRASS GROWTH, ALL AREAS WILL NEED TO HAVE AT LEAST 90% GRASS COVERAGE BEFORE CONTRACTOR'S RETAINAGE WILL BE RELEASED, CONTRACTOR TO CONTRACT JERRY SCHROEDER AT CHAMPIONS HYDRO-LAWN ☎ 713-703-3516, COMPLETE IN PLACE	AC	1	\$2,650.00	\$2,650.00	\$3,400.00	\$3,400.00	\$2,889.00	\$2,889.00
20	STANDARD TYPE "E" INLET, ALL DEPTHS, COMPLETE IN PLACE	EA	1	\$1,600.00	\$1,600.00	\$3,800.00	\$3,800.00	\$4,362.00	\$4,362.00
21	FINAL ADJUSTMENT OF MANHOLE RIM ELEVATION AND TYPE "E" INLET TOPS, PROPOSED AND EXISTING, COMPLETE IN PLACE	EA	1	\$300.00	\$300.00	\$500.00	\$500.00	\$546.00	\$546.00
22	36" R.C.P. STORM SEWER, ASTM C-76, CLASS III, ALL DEPTHS, INCLUDES BEDDING AND BACKFILL, COMPLETE IN PLACE	LF	172	\$90.00	\$15,480.00	\$150.00	\$25,800.00	\$119.91	\$20,624.52
23	4' CONCRETE SLOPE PAVING WITH 2' MINIMUM TOE WALLS ALL AROUND, 2' CLAY LINER BELOW ALL SLOPE PAVING, AND EXPANSION JOINTS, COMPLETE IN PLACE	SY	52	\$85.00	\$4,420.00	\$75.00	\$3,900.00	\$147.15	\$7,651.80
24	18" RIP RAP, COMPLETE IN PLACE	SY	23	\$100.00	\$2,300.00	\$105.00	\$2,415.00	\$109.20	\$2,511.60

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 CITY OF FULSHEAR E.T.J., FORT BEND COUNTY, TEXAS
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 D. FORREST
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				UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST
25	3:1 V-BOTTOM DRAINAGE SWALES, INCLUDING HYDROMULCH AND WATERING, COMPLETE IN PLACE	LF	150	\$6.00	\$900.00	\$4.00	\$600.00	\$63.90	\$9,585.00
26	MISCELLANEOUS DRAINAGE SWALES, V-BOTTOM, GRADED TO DRAIN, INCLUDING HYDROMULCH, AT THE DIRECTION OF THE ENGINEER, COMPLETE IN PLACE	LF	1000	\$4.00	\$4,000.00	\$4.00	\$4,000.00	\$4.98	\$4,980.00
CHANNEL I DETENTION IMPROVEMENT ITEMS SUBTOTAL:					\$499,729.75	\$659,290.50	\$771,777.12		
CHANNEL II DETENTION IMPROVEMENT ITEMS									
1	CLEARING, GRUBBING, AND STRIPPING OF CHANNEL II – BRUSH TO BE HAULED OFFSITE (INCLUDES REMOVAL OF TREES), TO BE USED ONLY AS DIRECTED BY THE ENGINEER, COMPLETE IN PLACE	AC	4.1	\$800.00	\$3,280.00	\$2,000.00	\$8,200.00	\$2,100.00	\$8,610.00
2	DEWATERING OF CHANNEL II TO ALLOW FOR EXCAVATION AND CONSTRUCTION OPERATIONS, TO BE USED ONLY AS DIRECTED BY THE ENGINEER, COMPLETE IN PLACE	LF	1690	\$20.00	\$33,800.00	\$20.00	\$33,800.00	\$21.00	\$35,490.00
3	REGRAIDING OF CHANNEL II PER CROSS SECTION IN PLANS, COMPLETE IN PLACE	LF	1690	\$5.00	\$8,450.00	\$7.50	\$12,675.00	\$15.00	\$25,350.00
4	HYDRO-MULCH SEEDING OF MAINTENANCE BERMS, AND SIDE SLOPES, AND CHANNEL BOTTOM OF CHANNEL II, INCLUDES WATERING, FERTILIZATION, AND MAINTENANCES AS NEEDED TO ESTABLISH GRASS GROWTH, ALL AREAS WILL NEED TO HAVE AT LEAST 90% GRASS COVERAGE BEFORE CONTRACTOR'S RETAINAGE WILL BE RELEASED, CONTRACTOR TO CONTRACT JERRY SCHROEDER AT CHAMPIONS HYDRO-LAWN @ 713-703-3516, COMPLETE IN PLACE	AC	4.1	\$3,150.00	\$12,915.00	\$3,400.00	\$13,940.00	\$3,435.00	\$14,083.50
5	5" REINFORCED CONCRETE SLOPE PAVING FOR DAM STRUCTURE WITH 2" MINIMUM TOE WALLS ALL AROUND, 2" CLAY LINER BELOW ALL SLOPE PAVING, AND EXPANSION JOINTS, COMPLETE IN PLACE	SY	410	\$85.00	\$34,850.00	\$95.00	\$38,950.00	\$147.15	\$60,331.50
CHANNEL II DETENTION IMPROVEMENT ITEMS SUBTOTAL:					\$93,295.00	\$107,565.00	\$143,865.00		
GABION SYSTEM ITEMS									
1	NORTH GABIONS - CLASS III GALVANIZED WELDED WIRE FABRIC GABION BASKETS WITH PVC COATING AS PER ASTM A-974, C.E. SHEPHERD CO., L.P. OR APPROVED EQUAL, ROLL STOCK PERMITTED, INCLUDES SPIRALS, LACING WIRES, STIFFENERS, PROTECTIVE EQUIPMENT DURING INSTALL, AND ALL APPURTENANCES, COMPLETE IN PLACE	CY	135	\$170.00	\$22,950.00	\$119.00	\$16,065.00	\$108.90	\$14,701.50
2	NORTH GABIONS – 6" MATTRESS CLASS III GALVANIZED WELDED WIRE FABRIC GABION BASKETS WITH PVC COATING AS PER ASTM A-974, C.E. SHEPHERD CO., L.P. OR APPROVED EQUAL ROLL STOCK PERMITTED, INCLUDES SPIRALS, LACING WIRES, STIFFENERS, PROTECTIVE EQUIPMENT DURING INSTALL, AND ALL APPURTENANCES, COMPLETE IN PLACE	SY	213	\$60.00	\$12,780.00	\$119.00	\$25,347.00	\$108.90	\$23,195.70

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				UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST
3	NORTH GABIONS – CEMENT STABILIZED SAND FOR FOUNDATION, COMPLETE IN PLACE	CY	51	\$60.00	\$3,060.00	\$125.00	\$6,375.00	\$121.20	\$6,181.20
4	NORTH GABIONS - CRUSHED STONE OR CRUSHED CONCRETE FOR GABION BASKETS WITH MINIMUM 4" AND MAXIMUM 8" STONE PLACED PER THE TECHNICAL SPECIFICATIONS, CONTRACTOR SHALL PROVIDE TESTING LAB WITH STONE SUPPLIER FOR INSPECTION APPROVAL, COMPLETE IN PLACE	CY	135	\$100.00	\$13,500.00	\$265.00	\$35,775.00	\$266.22	\$35,939.70
5	NORTH GABIONS - CRUSHED STONE OR CRUSHED CONCRETE FOR GABION MATTRESS WITH MINIMUM 3" AND MAXIMUM 4" STONE PLACED PER THE TECHNICAL SPECIFICATIONS, CONTRACTOR SHALL PROVIDE TESTING LAB WITH STONE SUPPLIER FOR INSPECTION APPROVAL, COMPLETE IN PLACE	CY	36	\$260.00	\$9,360.00	\$300.00	\$10,800.00	\$302.52	\$10,890.72
6	NORTH GABIONS - FILTER FABRIC PER SPECIFICATIONS, MIN 18" OVERLAP AT SEAMS, COMPLETE IN PLACE	SY	750	\$8.00	\$6,000.00	\$25.00	\$18,750.00	\$24.21	\$18,157.50
7	NORTH GABIONS – HEAVILY GALVANIZED STEEL PLATES AND ANCHOR BOLT ASSEMBLY, 18" O.C. AT GABION TO CONCRETE CONNECTIONS, COMPLETE IN PLACE	EA	55	\$70.00	\$3,850.00	\$200.00	\$11,000.00	\$133.11	\$7,321.05
8	NORTH GABIONS – CRUSHED STONE OR COARSE SAND BACKFILL MATERIAL, 120 PCF, 35% MIN FRICTION ANGLE, COMPLETE IN PLACE	CY	275	\$90.00	\$24,750.00	\$300.00	\$82,500.00	\$181.50	\$49,912.50
9	SOUTH GABIONS - CLASS III GALVANIZED WELDED WIRE FABRIC GABION BASKETS WITH PVC COATING AS PER ASTM A-974, C.E. SHEPHERD CO., L.P. OR APPROVED EQUAL, ROLL STOCK PERMITTED, INCLUDES SPIRALS, LACING WIRES, STIFFENERS, PROTECTIVE EQUIPMENT DURING INSTALL, AND ALL APPURTENANCES, COMPLETE IN PLACE	CY	842	\$70.00	\$58,940.00	\$119.00	\$100,198.00	\$108.90	\$91,693.80
10	SOUTH GABIONS – 1.5' MATTRESS CLASS III GALVANIZED WELDED WIRE FABRIC GABION BASKETS WITH PVC COATING AS PER ASTM A-974, C.E. SHEPHERD CO., L.P. OR APPROVED EQUAL, ROLL STOCK PERMITTED, INCLUDES SPIRALS, LACING WIRES, STIFFENERS, PROTECTIVE EQUIPMENT DURING INSTALL, AND ALL APPURTENANCES, COMPLETE IN PLACE	SY	515	\$55.00	\$28,325.00	\$119.00	\$61,285.00	\$108.90	\$56,083.50
11	SOUTH GABIONS – CEMENT STABILIZED SAND FOR FOUNDATION, COMPLETE IN PLACE	CY	113	\$60.00	\$6,780.00	\$125.00	\$14,125.00	\$121.20	\$13,695.60
12	SOUTH GABIONS - CRUSHED STONE OR CRUSHED CONCRETE FOR GABION BASKETS WITH MINIMUM 4" AND MAXIMUM 8" STONE PLACED PER THE TECHNICAL SPECIFICATIONS, CONTRACTOR SHALL PROVIDE TESTING LAB WITH STONE SUPPLIER FOR INSPECTION APPROVAL, COMPLETE IN PLACE	CY	842	\$85.00	\$71,570.00	\$240.00	\$202,080.00	\$242.10	\$203,848.20
13	SOUTH GABIONS - CRUSHED STONE OR CRUSHED CONCRETE FOR GABION MATTRESS WITH MINIMUM 3" AND MAXIMUM 5" STONE PLACED PER THE TECHNICAL SPECIFICATIONS, CONTRACTOR SHALL PROVIDE TESTING LAB WITH STONE SUPPLIER FOR INSPECTION APPROVAL, COMPLETE IN PLACE	CY	258	\$240.00	\$61,920.00	\$215.00	\$55,470.00	\$260.16	\$67,121.28
14	SOUTH GABIONS - FILTER FABRIC PER SPECIFICATIONS, MIN 18" OVERLAP AT SEAMS, COMPLETE IN PLACE	SY	1250	\$8.00	\$10,000.00	\$25.00	\$31,250.00	\$24.21	\$30,262.50
15	SOUTH GABIONS – CRUSHED STONE OR COARSE SAND BACKFILL MATERIAL, 120 PCF, 35% MIN FRICTION ANGLE, COMPLETE IN PLACE	CY	1380	\$90.00	\$124,200.00	\$180.00	\$248,400.00	\$166.98	\$230,432.40
16	EXTRA CEMENT STABILIZED SAND FOR GABION INSTALLATION, TO BE USED ONLY AS DIRECTED BY THE ENGINEER, COMPLETE IN PLACE	CY	50	\$38.00	\$1,900.00	\$135.00	\$6,750.00	\$121.20	\$6,060.00
GABION SYSTEM ITEMS SUBTOTAL:					\$459,885.00		\$926,170.00		\$665,497.15
ALTERNATE BID ITEMS NO.1									
1	SHORESUX SYSTEM PER PLANS AND DETAILS, INCLUDES ALL APPURTENANCES NECESSARY FOR A COMPLETE SYSTEM, TO BE USED IN LIEU OF GABION SYSTEMS ITEMS 1 THROUGH 8, COMPLETE IN PLACE	LF	384	\$500.00	\$192,000.00	\$600.00	\$230,400.00	\$120.00	\$46,080.00
ALTERNATE BID ITEMS NO.1 SUBTOTAL:					\$192,000.00		\$230,400.00		\$46,080.00

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				UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST
ALTERNATE BID ITEMS NO. 2									
1	EXCAVATION OF DETENTION PORTION OF CHANNEL M AND L TO BE HAULED OFFSITE IN LIEU OF CHANNEL M DETENTION IMPROVEMENT ITEMS NO. 4 & NO. 5 AND CHANNEL L DETENTION IMPROVEMENT ITEM NO. 4, COMPLETE IN PLACE	CY	101432	\$20.00	\$2,028,640.00	\$12.00	\$1,217,184.00	\$27.00	\$2,738,664.00
ALTERNATE BID ITEMS NO. 2 SUBTOTAL:					\$2,028,640.00		\$1,217,184.00		\$2,738,664.00
<u>BIDDING SUMMARY</u>									
SUBTOTAL WATER SYSTEM ITEMS					\$450,825.00		\$465,910.00		\$587,809.77
SUBTOTAL SANITARY SEWER ITEMS					\$53,962.90		\$108,862.00		\$92,415.78
SUBTOTAL DRAINAGE IMPROVEMENT ITEMS					\$872,486.30		\$1,043,701.00		\$1,171,692.06
SUBTOTAL CHANNEL M DETENTION IMPROVEMENT ITEMS					\$367,640.00		\$460,820.25		\$556,960.50
SUBTOTAL CHANNEL L DETENTION IMPROVEMENT ITEMS					\$499,729.75		\$659,290.50		\$771,777.12
SUBTOTAL CHANNEL II DETENTION IMPROVEMENT ITEMS					\$93,295.00		\$107,565.00		\$143,865.00
SUBTOTAL GABION SYSTEM ITEMS					\$459,885.00		\$926,170.00		\$865,497.15
TOTAL AMOUNT BASE BID					\$2,797,823.95		\$3,772,318.75		\$4,190,017.38
<u>ALTERNATE BID ITEMS NO.1</u>									
TOTAL AMOUNT BASE BID					\$2,797,823.95		\$3,772,318.75		\$4,190,017.38
DEDUCT GABION SYSTEM ITEMS ITEM NO.1					-\$22,950.00		-\$16,065.00		-\$14,701.50
DEDUCT GABION SYSTEM ITEMS ITEM NO.2					-\$12,780.00		-\$25,347.00		-\$23,195.70
DEDUCT GABION SYSTEM ITEMS ITEM NO.3					-\$3,060.00		-\$6,375.00		-\$6,181.20
DEDUCT GABION SYSTEM ITEMS ITEM NO.4					-\$13,500.00		-\$35,775.00		-\$35,939.70
DEDUCT GABION SYSTEM ITEMS ITEM NO.5					-\$9,360.00		-\$10,800.00		-\$10,890.72
DEDUCT GABION SYSTEM ITEMS ITEM NO.6					-\$6,000.00		-\$18,750.00		-\$18,157.50
DEDUCT GABION SYSTEM ITEMS ITEM NO.7					-\$3,850.00		-\$11,000.00		-\$7,321.05
DEDUCT GABION SYSTEM ITEMS ITEM NO.8					-\$24,750.00		-\$82,500.00		-\$49,912.50
SUBTOTAL ALTERNATE BID ITEMS NO.1					\$192,000.00		\$230,400.00		\$46,080.00
TOTAL AMOUNT INCLUDING ALTERNATE BID ITEMS NO.1					\$2,893,573.95		\$3,796,106.75		\$4,069,797.51
<u>ALTERNATE BID ITEMS NO. 2</u>									
TOTAL AMOUNT BASE BID					\$2,797,823.95		\$3,772,318.75		\$4,190,017.38
DEDUCT CHANNEL M DETENTION IMPROVEMENT ITEMS ITEM NO.4					-\$83,688.00		-\$98,904.00		-\$112,294.08
DEDUCT CHANNEL M DETENTION IMPROVEMENT ITEMS ITEM NO.5					-\$116,792.50		-\$153,953.75		-\$205,767.15
DEDUCT CHANNEL L DETENTION IMPROVEMENT ITEMS ITEM NO.4					-\$273,707.50		-\$360,796.25		-\$482,222.85
SUBTOTAL ALTERNATE BID ITEMS NO. 2					\$2,028,640.00		\$1,217,184.00		\$2,738,664.00
TOTAL AMOUNT INCLUDING ALTERNATE BID ITEMS NO. 2					\$4,352,275.95		\$4,375,848.75		\$6,128,397.30