

BID TABULATION FOR:

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

CONSTRUCTION OF THE DETENTION / MITIGATION PONDS
TO SERVE CYPRESS FOREST RESERVES
HARRIS COUNTY WATER CONTROL AND IMPROVEMENT DISTRICT NO. 110
CITY OF HOUSTON E.T.J., HARRIS COUNTY, TEXAS
JANUARY 11, 2018
LJA ENGINEERING, INC.
A. ZUMAYA
JANUARY 11, 2018
1605-2113 (9.2)

BIDDER'S NAME	TOTAL BID AMOUNT	TOTAL BID AMOUNT INCL. ALTERANTE
1) PASKEY, INCORPORATED	\$2,069,933.70	\$2,594,576.70
2) L.N. MCKEAN, INC.	\$2,396,061.25	\$2,830,630.00
3) BURNSIDE SERVICES, INC.	\$2,434,162.43	\$2,702,804.93
4) LONGHORN EXCAVATORS, INC.	\$2,865,658.95	\$3,387,141.45
5) SONORA SWQM CO. DBA SONORA CONST.	\$2,883,624.00	\$3,484,119.00
6) G.W. PHILLIPS CONCRETE CONST. INC.	\$3,213,644.00	\$3,788,336.50
7) LINDSEY CONSTRUCTION, INC.	\$3,347,424.10	\$3,935,277.10
8) TRIPLE B SERVICES, LLP	\$4,455,000.00	\$4,968,581.25

CALENDAR DAYS - 120/135



A handwritten signature in black ink, appearing to read "SP", located above a horizontal line.

I, Steven Perez, P.E., hereby certify these bid tabulations to be true and correct.

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ITEM	DESCRIPTION	UNIT	QTY	1) PASKEY, INCORPORATED		2) L.N. MCKEAN, INC.		3) BURNSIDE SERVICES, INC.	
				UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST
DRAINAGE FACILITIES ITEMS									
1.	12" RCP STORM SEWER PIPE, RESTRICTOR ASTM C-76, CLASS III, ALL DEPTHS, TO INCLUDE BEDDING AND BACKFILL, COMPLETE IN PLACE	LF	94	\$39.90	\$3,750.60	\$57.00	\$5,358.00	\$47.50	\$4,465.00
2.	24" RCP STORM SEWER PIPE, ASTM C-76, CLASS III, ALL DEPTHS, TO INCLUDE BEDDING AND BACKFILL, COMPLETE IN PLACE	LF	590	\$56.89	\$33,565.10	\$70.00	\$41,300.00	\$60.00	\$35,400.00
3.	24" CORRUGATED GALVANIZED METAL PIPE STORM SEWER, ALL DEPTHS, INCLUDING CEMENT STABILIZED SAND BACKFILL, COMPLETE IN PLACE	LF	228	\$50.60	\$11,536.80	\$63.00	\$14,364.00	\$65.00	\$14,820.00
4.	30" RCP STORM SEWER ASTM C-76, CLASS III, ALL DEPTHS, TO INCLUDE BEDDING AND BACKFILL, COMPLETE IN PLACE	LF	31	\$75.76	\$2,348.56	\$98.00	\$3,038.00	\$100.00	\$3,100.00
5.	36" RCP STORM SEWER ASTM C-76, CLASS III, ALL DEPTHS, TO INCLUDE BEDDING AND BACKFILL, COMPLETE IN PLACE	LF	150	\$104.72	\$15,708.00	\$127.00	\$19,050.00	\$105.00	\$15,750.00
6.	42" CORRUGATED GALVANIZED METAL PIPE STORM SEWER, ALL DEPTHS, INCLUDING CEMENT STABILIZED SAND BACKFILL, COMPLETE IN PLACE	LF	280	\$88.65	\$24,822.00	\$140.00	\$39,200.00	\$115.00	\$32,200.00
7.	42" RCP STORM SEWER PIPE, ASTM C-76, CLASS III, ALL DEPTHS, TO INCLUDE BEDDING, COMPLETE IN PLACE	LF	146	\$134.48	\$19,634.08	\$167.00	\$24,382.00	\$125.00	\$18,250.00
8.	8'X4' BOX CULVERT (ASTM C-1433) MEETING, COH SPECIFICATION INCLUDING BEDDING WITH CEMENT STABILIZED SAND WRAP, COH DWG NO. 02317-05 AND 02317-06, COMPLETE IN PLACE	LF	640	\$404.15	\$258,656.00	\$536.00	\$343,040.00	\$485.00	\$310,400.00
9.	TYPE "C" MANHOLE FOR 42" STORM SEWERS AND SMALLER, ALL DEPTHS, COMPLETE IN PLACE	EA	1	\$2,358.75	\$2,358.75	\$5,000.00	\$5,000.00	\$5,000.00	\$5,000.00
10.	TYPE "C" MANHOLE WITH E INLET TOP, ALL DEPTHS, COMPLETE IN PLACE	EA	3	\$3,858.75	\$11,576.25	\$5,800.00	\$17,400.00	\$5,000.00	\$15,000.00 *
11.	TYPE "E" INLET INCLUDES INLET PROTECTION BARRIERS, COMPLETE IN PLACE	EA	5	\$2,564.10	\$12,820.50	\$4,500.00	\$22,500.00	\$5,000.00	\$25,000.00 *
12.	REINFORCED CONCRETE JUNCTION BOX WITH TYPE "E" INLET TOP FOR 8'X4' R.C.B., COMPLETE IN PLACE	EA	2	\$7,725.28	\$15,450.56	\$14,700.00	\$29,400.00	\$15,000.00	\$30,000.00
13.	REINFORCED CONCRETE JUNCTION BOX WITH TYPE "E" INLET TOP FOR OUTFALL B, (AS PER SHEET 16 OF 27), COMPLETE IN PLACE	EA	1	\$7,438.27	\$7,438.27	\$14,700.00	\$14,700.00	\$15,000.00	\$15,000.00
14.	STANDARD 15' PRECAST CURB INLET (INCLUDES INLET PROTECTION BARRIERS, COMPLETE IN PLACE	EA	2	\$3,750.00	\$7,500.00	\$6,350.00	\$12,700.00	\$5,000.00	\$10,000.00
15.	TYPE "C" MANHOLE TOP, ON TOP OF 8'X4' RCB, COMPLETE IN PLACE	EA	3	\$1,280.00	\$3,840.00	\$1,650.00	\$4,950.00	\$4,000.00	\$12,000.00
16.	OUTFALL STRUCTURE FOR 24" CGMP INCLUDES RIP-RAP, (SEE DETAIL SHEET 22 OF 27), COMPLETE IN PLACE	EA	1	\$1,944.47	\$1,944.47	\$6,400.00	\$6,400.00	\$10,000.00	\$10,000.00
17.	OUTFALL STRUCTURE FOR 42" CGMP INCLUDES RIP RAP, (SEE DETAIL SHEET 22 OF 27), COMPLETE IN PLACE	EA	1	\$7,787.91	\$7,787.91	\$8,500.00	\$8,500.00	\$15,000.00	\$15,000.00
18.	OUTFALL SLOPE PROTECTION NO. 3 FOR 8'X4' R.C.B. (INCLUDES SLOPE PAVING AND RIP-RAP), (AS PER DETAIL SHEET 20 OF 27), COMPLETE IN PLACE	EA	1	\$5,200.19	\$5,200.19	\$17,000.00	\$17,000.00	\$25,000.00	\$25,000.00
19.	FLOATABLES COLLECTION SCREEN AND STRUCTURE (PER DETAIL SHEET 25 OF 27), INCLUDING SLOPE PAVING, COMPLETE IN PLACE	EA	2	\$23,714.64	\$47,429.28	\$11,000.00	\$22,000.00	\$10,000.00	\$20,000.00
20.	STORM WATER POLLUTION PREVENTION PLAN COMPLIANCE, INCLUDING INSTALLATION, MAINTENANCE AND REMOVAL OF FILTER FABRIC FENCE, STABILIZED CONSTRUCTION EXIT, CONCRETE TRUCK WASHOUT AND INLET PROTECTION, COMPLETE IN PLACE	LS	1	\$1,973.00	\$1,973.00	\$19,000.00	\$19,000.00	\$5,000.00	\$5,000.00

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ITEM	DESCRIPTION	UNIT	QTY	1) PASKEY, INCORPORATED		2) L.N. MCKEAN, INC.		3) BURNSIDE SERVICES, INC.	
				UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST
21.	TRENCH SAFETY SYSTEM, ALL DEPTHS, COMPLETE IN PLACE	LF	1,885	\$0.09	\$169.65	\$1.00	\$1,885.00	\$1.00	\$1,885.00
22.	ROCK FILTER DAM, TYPE 4, COMPLETE IN PLACE	EA	2	\$979.00	\$1,958.00	\$710.00	\$1,420.00	\$2,000.00	\$4,000.00
23.	COFFER DAM AND BY PASS PUMPING FOR OUTFALL CONSTRUCTION, COMPLETE IN PLACE	EA	2	\$1,700.00	\$3,400.00	\$4,650.00	\$9,300.00	\$5,000.00	\$10,000.00
24.	BREAK INTO EXISTING STORM SEWER MANHOLE AND CONNECT PROPOSED 24" STORM SEWER (AS PER SHEET 3 OF 27), COMPLETE IN PLACE	EA	1	\$975.00	\$975.00	\$1,500.00	\$1,500.00	\$1,500.00	\$1,500.00
25.	BREAK INTO EXISTING 48" STORM SEWER AND CONSTRUCT PROPOSED MANHOLE, (AS PER SHEET 3 OF 27), COMPLETE IN PLACE	EA	2	\$3,993.00	\$7,986.00	\$8,200.00	\$16,400.00	\$2,200.00	\$4,400.00
26.	REMOVE AND DISPOSE OF EXISTING STORM FACILITIES (AS PER SHEET 3 OF 27), COMPLETE IN PLACE	LS	1	\$13,068.00	\$13,068.00	\$3,200.00	\$3,200.00	\$5,000.00	\$5,000.00
27.	REMOVE AND DISPOSE OF EXISTING TYPE "C" MANHOLE, (AS PER SHEET 3 OF 27), COMPLETE IN PLACE	EA	4	\$1,373.00	\$5,492.00	\$1,800.00	\$7,200.00	\$1,000.00	\$4,000.00
28.	REMOVE AND DISPOSE OF EXISTING 48" RCP (AS PER SHEET 3 OF 27), COMPLETE IN PLACE	LF	540	\$13.73	\$7,414.20	\$25.00	\$13,500.00	\$30.00	\$16,200.00
SUBTOTAL DRAINAGE FACILITIES ITEMS					\$535,803.17		\$723,687.00		\$668,370.00
DETENTION BASIN ITEMS									
1.	DETENTION EXCAVATION, COMPLETE IN PLACE	CY	289,425	\$2.10	\$607,792.50	\$1.10	\$318,367.50	\$1.50	\$434,137.50
2.	COMPACTED FILL TO BE HAULED, PLACED AND COMPACTED ONSITE PER FILL PLANS (SHEETS 4 AND 5) TO 95% STANDARD PROCTOR DENSITY, COMPLETE IN PLACE	CY	289,425	\$0.37	\$107,087.25	\$1.40	\$405,195.00	\$1.35	\$390,723.75
3.	DEWATERING (GROUND WATER CONTROL) FOR DETENTION POND EXCAVATION, INCLUDES CONVENTIONAL VACUUM TYPE WELL POINTS, INTERNAL SUMPS AND PUMPS OR ANY TYPE OF PUMPING AS NECESSARY TO COMPLETE THE PROJECT CONSTRUCTION, AS DIRECTED BY ENGINEER, COMPLETE IN PLACE	AC	14.5	\$427.00	\$6,191.50	\$780.00	\$11,310.00	\$5,000.00	\$72,500.00
4.	6-FOOT REINFORCED CONCRETE LINED PILOT CHANNEL (SEE DETAIL SHEET 8 AND SHEET 9), COMPLETE IN PLACE	LF	2,935	\$51.74	\$151,856.90	\$57.00	\$167,295.00	\$46.00	\$135,010.00
5.	BACKSLOPE SWALE, INCLUDES EXCAVATION, EMBANKMENT, STRIPPING, STOCKPILE OF STRIPPINGS, RE-APPLICATION OF STRIPPINGS AND COMPACTION TO 95% STANDARD PROCTOR DENSITY, COMPLETE IN PLACE	LF	5,145	\$2.13	\$10,958.85	\$4.00	\$20,580.00	\$2.00	\$10,290.00
6.	BACKSLOPE INTERCEPTOR AND OUTFALL STRUCTURE, INCLUDES 24" C.M.P. INTERCEPTOR STRUCTURE, SLOPE PROTECTION AND TRENCH SAFETY, COMPLETE IN PLACE	EA	12	\$5,846.26	\$70,155.12	\$9,000.00	\$108,000.00	\$5,000.00	\$60,000.00
7.	HARRIS COUNTY OUTFALL PERMIT, COMPLETE IN PLACE	LS	1	\$4,971.00	\$4,971.00	\$9,600.00	\$9,600.00	\$47,728.68	\$47,728.68
8.	SURFACE PUMPING (SURFACE WATER CONTROL), INCLUDES ANY PUMPING REQUIRED TO CONSTRUCT PONDS, UTILITIES, AND OUTFALLS, (AS DIRECTED BY ENGINEER), COMPLETE IN PLACE	LS	1	\$5,757.00	\$5,757.00	\$11,000.00	\$11,000.00	\$20,000.00	\$20,000.00
9.	EXTREME EVENT OVERFLOW CONCRETE LINED SWALE, (AS PER DETAIL SHEET 20 OF 27), COMPLETE IN PLACE	LF	315	\$127.35	\$40,115.25	\$130.00	\$40,950.00	\$85.00	\$26,775.00
10.	SWALE (INCLUDES EXCAVATION, HAULING AND GRADING (1-2) SWALES) (AS PER SHEET 3 OF 27), COMPLETE IN PLACE	LF	2,345	\$2.96	\$6,941.20	\$4.50	\$10,552.50	\$7.50	\$17,587.50
11.	TRAPEZOIDAL OVERFLOW WEIR STRUCTURE IN POND C, INCLUDES 4" SLOPE PAVING (SEE DETAIL SHEET 8 OF 27), COMPLETE IN PLACE	EA	1	\$76,982.73	\$76,982.73	\$17,500.00	\$17,500.00	\$98,200.00	\$98,200.00

* MATHEMATICAL ERROR

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ITEM	DESCRIPTION	UNIT	QTY	1) PASKEY, INCORPORATED		2) L.N. MCKEAN, INC.		3) BURNSIDE SERVICES, INC.	
				UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST
12.	TRAPEZOIDAL OVERFLOW WEIR IN BETWEEN POND D AND E, INCLUDES 4" SLOPE PAVING (SEE DETAIL SHEET 17 OF 27), COMPLETE IN PLACE	EA	1	\$27,892.30	\$27,892.30	\$17,500.00	\$17,500.00	\$38,000.00	\$38,000.00
SUBTOTAL DETENTION BASIN ITEMS					\$1,116,701.60	\$1,137,850.00	\$1,350,952.43		
MISCELLANEOUS ITEMS									
1.	HYDROMULCH SEEDING AND FINE GRADING, COMPLETE IN PLACE	AC	4.7	\$1,417.00	\$6,659.90	\$1,450.00	\$6,815.00	\$1,750.00	\$8,225.00
2.	EXTRA COST OF STORM SEWER WET SAND CONSTRUCTION, ALL LINE SIZES (C.O.H. DRAWING 02317-06), (TO BE USED ONLY AT THE WRITTEN DIRECTION OF THE ENGINEER), COMPLETE IN PLACE	LF	550	\$18.00	\$9,900.00	\$5.00	\$2,750.00	\$5.00	\$2,750.00
3.	DEWATERING (GROUND WATER CONTROL) TO COMPLETE THE CONSTRUCTION OF UTILITY LINES, ALL LINE SIZES AND DEPTHS, INCLUDES CONVENTIONAL VACUUM TYPE WELL POINTS, INTERNAL SUMPS AND PUMPS, OR ANY TYPE OF PUMPING AS NECESSARY TO COMPLETE THE CONSTRUCTION OF THE PROJECT, (TO BE USED ONLY AT THE WRITTEN DIRECTION OF THE ENGINEER), COMPLETE IN PLACE	LF	550	\$30.00	\$16,500.00	\$20.00	\$11,000.00	\$20.00	\$11,000.00
4.	BROADCAST SEEDING FOR BASIN BOTTOM, COMPLETE IN PLACE	AC	9.8	\$471.75	\$4,629.15	\$800.00	\$7,840.00	\$500.00	\$4,900.00
5.	CLEARING AND GRUBBING, (DEBRIS TO BE CHIPPED, HAULED AND DISPOSED OF OFFSITE), (TO BE USED ONLY AT THE WRITTEN DIRECTION OF THE ENGINEER), COMPLETE IN PLACE	AC	1	\$12,840.00	\$12,840.00	\$7,000.00	\$7,000.00	\$7,000.00	\$7,000.00
6.	4" STRIPPING OF FILL AREAS, INCLUDES STOCKPILING AND REAPPLICATION, COMPLETE IN PLACE	AC	41.7	\$2,006.97	\$83,690.65	\$750.00	\$31,275.00	\$350.00	\$14,595.00
7.	STRAW MAT FOR DETENTION POND SIDE SLOPES, FROM HIGH BANK TO TOE, COMPLETE IN PLACE	AC	4.7	\$1,471.00	\$6,913.70	\$9,500.00	\$44,650.00	\$450.00	\$2,115.00
8.	BROADCAST SEEDING FOR FILL AREAS, COMPLETE IN PLACE	AC	41.7	\$471.75	\$19,671.98	\$800.00	\$33,360.00	\$400.00	\$16,680.00
9.	4" SLOPE PAVING (SEE DETAIL SHEET 20 OF 27), COMPLETE IN PLACE	SY	115	\$79.56	\$9,149.40	\$82.00	\$9,430.00	\$48.00	\$5,520.00
10.	2' OVER EXCAVATION FOR PLACEMENT OF CLAY LINER, COMPLETE IN PLACE	CY	31,605	\$1.40	\$44,247.00	\$1.00	\$31,605.00	\$2.00	\$63,210.00
11.	STOCKPILE SUITABLE CLAY FOR CLAY LINER, ALL CLAY OF 25 PI OR GREATER AND MUST BE VERIFIED BY THE LAB, NEEDS TO BE STOCKPILED AS DIRECTED BY OWNER, COMPLETE IN PLACE	CY	31,605	\$1.40	\$44,247.00	\$1.25	\$39,506.25	\$1.50	\$47,407.50
12.	FILL AND COMPACT (95% STANDARD PROCTOR WITH 8" LIFTS), CLAY LINER, TO BE PLACED ON POND BOTTOM AND ALONG SIDE SLOPES TO BOTTOM OF SHELF, TO BE USED ONLY AS DIRECTED BY THE ENGINEER, COMPLETE IN PLACE	CY	31,605	\$0.91	\$28,760.55	\$2.00	\$63,210.00	\$1.50	\$47,407.50
13.	DEMUCK EXISTING WET AND UNSTABLE SOILS, UNSUITABLE DEMUCKED MATERIAL TO BE HAULED OFF AND BECOME PROPERTY OF THE CONTRACTOR (AS DIRECTED BY THE ENGINEER), COMPLETE IN PLACE	CY	10,000	\$3.27	\$32,700.00	\$14.50	\$145,000.00	\$11.00	\$110,000.00
14.	18" RIP RAP (AS PER DETAIL SHEET 22 OF 27), COMPLETE IN PLACE	SY	203	\$47.17	\$9,575.51	\$67.00	\$13,601.00	\$80.00	\$16,240.00
15.	ADJUST RIM ELEVATIONS OF EXISTING SAN MANHOLES TO BE 6" ABOVE FINISHED GRADE (AS PER SHEET 3 OF 27), COMPLETE IN PLACE	EA	4	\$675.00	\$2,700.00	\$650.00	\$2,600.00	\$500.00	\$2,000.00
16.	BREAK INTO EXISTING 24" SANITARY SEWER AND CONSTRUCT PROPOSED SANITARY MANHOLE, (AS PER SHEETS 3 OF 27), COMPLETE IN PLACE	EA	1	\$4,246.21	\$4,246.21	\$12,000.00	\$12,000.00	\$2,500.00	\$2,500.00
17.	REMOVE AND DISPOSE OF EXISTING PAVING (INCLUDES PAVEMENT, SUBGRADE AND CURB), (AS PER SHEET 3 OF 27), COMPLETE IN PLACE	SY	2,520	\$6.75	\$17,010.00	\$10.00	\$25,200.00	\$5.00	\$12,600.00

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18.	ONSITE DUST CONTROL, CONTRACTOR TO OBTAIN A WATER METER FROM WCID NO. 110 (OR ANOTHER APPROVED SOURCE) AND WATER THE SITE AS NEEDED TO PREVENT ANY BLOWING DUST FOR THE DURATION OF THE PROJECT, CONTRACTOR IS RESPONSIBLE FOR THE COSTS ASSOCIATED WITH METER AND PURCHASING OF THE WATER FROM WCID NO. 110, COMPLETE IN PLACE	LS	1	\$2,121.00	\$2,121.00	\$10,000.00	\$10,000.00	\$1,000.00	\$1,000.00
19.	REMOVE AND REPLACE EXISTING CONCRETE COLLAR FOR EXISTING 48"R.C.P. (AS PER SHEET 3 OF 27), COMPLETE IN PLACE	EA	1	\$3,000.39	\$3,000.39	\$4,500.00	\$4,500.00	\$1,500.00	\$1,500.00
20.	REMOVE AND REPLACE EXISTING CONCRETE COLLAR FOR EXISTING 60" R.C.P. (AS PER SHEET 3 OF 27), COMPLETE IN PLACE	EA	1	\$3,000.00	\$3,000.00	\$5,500.00	\$5,500.00	\$2,500.00	\$2,500.00
21.	8" BRICK WALL PLUG (AS PER SHEET 3 OF 27) (ALL SIZES), COMPLETE IN PLACE	EA	2	\$1,100.00	\$2,200.00	\$1,000.00	\$2,000.00	\$5.00	\$10.00
22.	REMOVE TOP OF EXISTING MANHOLE 6-FOOT BELOW GRADE AND BACKFILL MANHOLE WITH 100PSI CEMENT STABILIZED SAND OR 100 PSI NON-SHRINK FLOWABLE, FILL GROUT (AS PER SHEET 3 OF 27), COMPLETE IN PLACE	EA	1	\$2,500.00	\$2,500.00	\$760.00	\$760.00	\$500.00	\$500.00
23.	GROUT IN EXISTING ABANDONED 18" SANITARY SEWER WITH 100 PSI NON-SHRINK FLOWABLE FILL GROUT (AS PER SHEET 3 OF 27), COMPLETE IN PLACE	LF	1,510	\$29.75	\$44,922.50	\$15.00	\$22,650.00	\$16.00	\$24,160.00
24.	2' SAWCUT (FULL DEPTH) OF EXISTING CONCRETE PAVEMENT (AS PER SHEET 18 OF 27), COMPLETE IN PLACE	LF	34	\$50.00	\$1,700.00	\$8.00	\$272.00	\$30.00	\$1,020.00
25.	TEMPORARY TRAFFIC CONTROL IN ORDER TO COMPLETE THE PROJECT, COMPLETE IN PLACE	LS	1	\$4,550.00	\$4,550.00	\$2,000.00	\$2,000.00	\$10,000.00	\$10,000.00
SUBTOTAL MISCELLANEOUS ITEMS					\$417,428.93		\$534,524.25		\$414,840.00
ALTERNATE BID ITEMS									
1.	IMPORT AND STOCKPILE SUITABLE CLAY FOR CLAY LINER, ALL CLAY OF 25 PI OR GREATER AND MUST BE VERIFIED BY THE LAB, IN LIEU OF MISCELLANEOUS ITEM NO. 11, TO BE USED ONLY AS DIRECTED BY THE ENGINEER, NEEDS TO BE STOCKPILED AS DIRECTED BY THE OWNER, COMPLETE IN PLACE	CY	31,605	\$18.00	\$568,890.00	\$15.00	\$474,075.00	\$10.00	\$316,050.00
SUBTOTAL ALTERNATE BID ITEMS					\$568,890.00		\$474,075.00		\$316,050.00
BID SUMMARY									
SUBTOTAL DRAINAGE FACILITIES ITEMS					\$535,803.17		\$723,687.00		\$668,370.00
SUBTOTAL DETENTION BASIN ITEMS					\$1,116,701.60		\$1,137,850.00		\$1,350,952.43
SUBTOTAL MISCELLANEOUS ITEMS					\$417,428.93		\$534,524.25		\$414,840.00
TOTAL AMOUNT BID					\$2,069,933.70		\$2,396,061.25		\$2,434,162.43
ALTERNATE BID									
TOTAL AMOUNT BID					\$2,069,933.70		\$2,396,061.25		\$2,434,162.43
DEDUCT MISCELLANEOUS ITEM NO. 11					(\$44,247.00)		(\$39,506.25)		(\$47,407.50)
SUBTOTAL ALTERNATE BID ITEMS					\$568,890.00		\$474,075.00		\$316,050.00
TOTAL AMOUNT BID INCLUDING ALTERNATE					\$2,594,576.70		\$2,830,630.00		\$2,702,804.93

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CONSTRUCTION OF THE DETENTION / MITIGATION PONDS
 TO SERVE CYPRESS FOREST RESERVES
 HARRIS COUNTY WATER CONTROL AND IMPROVEMENT DISTRICT NO. 110
 CITY OF HOUSTON E.T.J., HARRIS COUNTY, TEXAS
 JANUARY 11, 2018
 LJA ENGINEERING, INC.
 A. ZUMAYA
 JANUARY 11, 2018
 1605-2113 (9.2)

ITEM	DESCRIPTION	UNIT	QTY	4) LONGHORN EXCAVATORS, INC.		5) SONORA SWQM CO. DBA SONORA CONST.		6) G.W. PHILLIPS CONCRETE CONST. INC.	
				UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST
DRAINAGE FACILITIES ITEMS									
1.	12" RCP STORM SEWER PIPE, RESTRICTOR ASTM C-76, CLASS III, ALL DEPTHS, TO INCLUDE BEDDING AND BACKFILL, COMPLETE IN PLACE	LF	94	\$87.00	\$8,178.00	\$70.00	\$6,580.00	\$55.00	\$5,170.00
2.	24" RCP STORM SEWER PIPE, ASTM C-76, CLASS III, ALL DEPTHS, TO INCLUDE BEDDING AND BACKFILL, COMPLETE IN PLACE	LF	590	\$129.00	\$76,110.00	\$75.00	\$44,250.00	\$85.00	\$50,150.00
3.	24" CORRUGATED GALVANIZED METAL PIPE STORM SEWER, ALL DEPTHS, INCLUDING CEMENT STABILIZED SAND BACKFILL, COMPLETE IN PLACE	LF	228	\$102.00	\$23,256.00	\$75.00	\$17,100.00	\$95.00	\$21,660.00
4.	30" RCP STORM SEWER ASTM C-76, CLASS III, ALL DEPTHS, TO INCLUDE BEDDING AND BACKFILL, COMPLETE IN PLACE	LF	31	\$135.00	\$4,185.00	\$94.00	\$2,914.00	\$95.00	\$2,945.00
5.	36" RCP STORM SEWER ASTM C-76, CLASS III, ALL DEPTHS, TO INCLUDE BEDDING AND BACKFILL, COMPLETE IN PLACE	LF	150	\$171.00	\$25,650.00	\$120.00	\$18,000.00	\$125.00	\$18,750.00
6.	42" CORRUGATED GALVANIZED METAL PIPE STORM SEWER, ALL DEPTHS, INCLUDING CEMENT STABILIZED SAND BACKFILL, COMPLETE IN PLACE	LF	280	\$150.00	\$42,000.00	\$120.00	\$33,600.00	\$110.00	\$30,800.00
7.	42" RCP STORM SEWER PIPE, ASTM C-76, CLASS III, ALL DEPTHS, TO INCLUDE BEDDING, COMPLETE IN PLACE	LF	146	\$195.00	\$28,470.00	\$150.00	\$21,900.00	\$160.00	\$23,360.00
8.	8'X4' BOX CULVERT (ASTM C-1433) MEETING, COH SPECIFICATION INCLUDING BEDDING WITH CEMENT STABILIZED SAND WRAP, COH DWG NO. 02317-05 AND 02317-06, COMPLETE IN PLACE	LF	640	\$513.00	\$328,320.00	\$480.00	\$307,200.00	\$470.00	\$300,800.00
9.	TYPE "C" MANHOLE FOR 42" STORM SEWERS AND SMALLER, ALL DEPTHS, COMPLETE IN PLACE	EA	1	\$4,200.00	\$4,200.00	\$3,600.00	\$3,600.00	\$3,200.00	\$3,200.00
10.	TYPE "C" MANHOLE WITH E INLET TOP, ALL DEPTHS, COMPLETE IN PLACE	EA	3	\$4,200.00	\$12,600.00	\$3,450.00	\$10,350.00	\$3,400.00	\$10,200.00
11.	TYPE "E" INLET INCLUDES INLET PROTECTION BARRIERS, COMPLETE IN PLACE	EA	5	\$2,700.00	\$13,500.00	\$2,500.00	\$12,500.00	\$4,100.00	\$20,500.00
12.	REINFORCED CONCRETE JUNCTION BOX WITH TYPE "E" INLET TOP FOR 8'X4' R.C.B., COMPLETE IN PLACE	EA	2	\$21,000.00	\$42,000.00	\$22,000.00	\$44,000.00	\$9,000.00	\$18,000.00
13.	REINFORCED CONCRETE JUNCTION BOX WITH TYPE "E" INLET TOP FOR OUTFALL B, (AS PER SHEET 16 OF 27), COMPLETE IN PLACE	EA	1	\$24,900.00	\$24,900.00	\$26,500.00	\$26,500.00	\$8,800.00	\$8,800.00
14.	STANDARD 15' PRECAST CURB INLET (INCLUDES INLET PROTECTION BARRIERS, COMPLETE IN PLACE	EA	2	\$4,200.00	\$8,400.00	\$5,200.00	\$10,400.00	\$3,800.00	\$7,600.00
15.	TYPE "C" MANHOLE TOP, ON TOP OF 8'X4' RCB, COMPLETE IN PLACE	EA	3	\$18,900.00	\$56,700.00	\$18,800.00	\$56,400.00	\$3,400.00	\$10,200.00
16.	OUTFALL STRUCTURE FOR 24" CGMP INCLUDES RIP-RAP, (SEE DETAIL SHEET 22 OF 27), COMPLETE IN PLACE	EA	1	\$12,000.00	\$12,000.00	\$1,100.00	\$1,100.00	\$1,900.00	\$1,900.00
17.	OUTFALL STRUCTURE FOR 42" CGMP INCLUDES RIP RAP, (SEE DETAIL SHEET 22 OF 27), COMPLETE IN PLACE	EA	1	\$15,900.00	\$15,900.00	\$7,600.00	\$7,600.00	\$2,800.00	\$2,800.00
18.	OUTFALL SLOPE PROTECTION NO. 3 FOR 8'X4' R.C.B. (INCLUDES SLOPE PAVING AND RIP-RAP), (AS PER DETAIL SHEET 20 OF 27), COMPLETE IN PLACE	EA	1	\$5,400.00	\$5,400.00	\$10,500.00	\$10,500.00	\$6,800.00	\$6,800.00
19.	FLOATABLES COLLECTION SCREEN AND STRUCTURE (PER DETAIL SHEET 25 OF 27), INCLUDING SLOPE PAVING, COMPLETE IN PLACE	EA	2	\$29,400.00	\$58,800.00	\$66,000.00	\$132,000.00	\$26,000.00	\$52,000.00
20.	STORM WATER POLLUTION PREVENTION PLAN COMPLIANCE, INCLUDING INSTALLATION, MAINTENANCE AND REMOVAL OF FILTER FABRIC FENCE, STABILIZED CONSTRUCTION EXIT, CONCRETE TRUCK WASHOUT AND INLET PROTECTION, COMPLETE IN PLACE	LS	1	\$6,900.00	\$6,900.00	\$20,300.00	\$20,300.00	\$28,000.00	\$28,000.00

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 1605-2113 (9.2)

ITEM	DESCRIPTION	UNIT	QTY	4) LONGHORN EXCAVATORS, INC.		5) SONORA SWQM CO. DBA SONORA CONST.		6) G.W. PHILLIPS CONCRETE CONST. INC.	
				UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST
21.	TRENCH SAFETY SYSTEM, ALL DEPTHS, COMPLETE IN PLACE	LF	1,885	\$3.00	\$5,655.00	\$1.00	\$1,885.00	\$2.00	\$3,770.00
22.	ROCK FILTER DAM, TYPE 4, COMPLETE IN PLACE	EA	2	\$3,000.00	\$6,000.00	\$1,200.00	\$2,400.00	\$3,800.00	\$7,600.00
23.	COFFER DAM AND BY PASS PUMPING FOR OUTFALL CONSTRUCTION, COMPLETE IN PLACE	EA	2	\$3,000.00	\$6,000.00	\$6,000.00	\$12,000.00	\$18,000.00	\$36,000.00
24.	BREAK INTO EXISTING STORM SEWER MANHOLE AND CONNECT PROPOSED 24" STORM SEWER (AS PER SHEET 3 OF 27), COMPLETE IN PLACE	EA	1	\$1,500.00	\$1,500.00	\$1,600.00	\$1,600.00	\$1,500.00	\$1,500.00
25.	BREAK INTO EXISTING 48" STORM SEWER AND CONSTRUCT PROPOSED MANHOLE, (AS PER SHEET 3 OF 27), COMPLETE IN PLACE	EA	2	\$6,969.00	\$13,938.00	\$3,200.00	\$6,400.00	\$7,500.00	\$15,000.00
26.	REMOVE AND DISPOSE OF EXISTING STORM FACILITIES (AS PER SHEET 3 OF 27), COMPLETE IN PLACE	LS	1	\$11,400.00	\$11,400.00	\$13,400.00	\$13,400.00	\$35,000.00	\$35,000.00
27.	REMOVE AND DISPOSE OF EXISTING TYPE "C" MANHOLE, (AS PER SHEET 3 OF 27), COMPLETE IN PLACE	EA	4	\$3,690.00	\$14,760.00	\$580.00	\$2,320.00	\$1,000.00	\$4,000.00
28.	REMOVE AND DISPOSE OF EXISTING 48" RCP (AS PER SHEET 3 OF 27), COMPLETE IN PLACE	LF	540	\$54.00	\$29,160.00	\$24.00	\$12,960.00	\$45.00	\$24,300.00
SUBTOTAL DRAINAGE FACILITIES ITEMS					\$885,892.00		\$839,759.00		\$750,805.00
DETENTION BASIN ITEMS									
1.	DETENTION EXCAVATION, COMPLETE IN PLACE	CY	289,425	\$1.50	\$434,137.50	\$1.00	\$289,425.00	\$1.25	\$361,781.25
2.	COMPACTED FILL TO BE HAULED, PLACED AND COMPACTED ONSITE PER FILL PLANS (SHEETS 4 AND 5) TO 95% STANDARD PROCTOR DENSITY, COMPLETE IN PLACE	CY	289,425	\$2.19	\$633,840.75	\$2.40	\$694,620.00	\$2.25	\$651,206.25
3.	DEWATERING (GROUND WATER CONTROL) FOR DETENTION POND EXCAVATION, INCLUDES CONVENTIONAL VACUUM TYPE WELL POINTS, INTERNAL SUMPS AND PUMPS OR ANY TYPE OF PUMPING AS NECESSARY TO COMPLETE THE PROJECT CONSTRUCTION, AS DIRECTED BY ENGINEER, COMPLETE IN PLACE	AC	14.5	\$900.00	\$13,050.00	\$1,800.00	\$26,100.00	\$20,000.00	\$290,000.00
4.	6-FOOT REINFORCED CONCRETE LINED PILOT CHANNEL (SEE DETAIL SHEET 8 AND SHEET 9), COMPLETE IN PLACE	LF	2,935	\$63.60	\$186,666.00	\$59.00	\$173,165.00	\$70.00	\$205,450.00
5.	BACKSLOPE SWALE, INCLUDES EXCAVATION, EMBANKMENT, STRIPPING, STOCKPILE OF STRIPPINGS, RE-APPLICATION OF STRIPPINGS AND COMPACTION TO 95% STANDARD PROCTOR DENSITY, COMPLETE IN PLACE	LF	5,145	\$3.00	\$15,435.00	\$4.00	\$20,580.00	\$6.00	\$30,870.00
6.	BACKSLOPE INTERCEPTOR AND OUTFALL STRUCTURE, INCLUDES 24" C.M.P. INTERCEPTOR STRUCTURE, SLOPE PROTECTION AND TRENCH SAFETY, COMPLETE IN PLACE	EA	12	\$5,937.00	\$71,244.00	\$7,600.00	\$91,200.00	\$6,500.00	\$78,000.00
7.	HARRIS COUNTY OUTFALL PERMIT, COMPLETE IN PLACE	LS	1	\$9,000.00	\$9,000.00	\$5,000.00	\$5,000.00	\$3,000.00	\$3,000.00
8.	SURFACE PUMPING (SURFACE WATER CONTROL), INCLUDES ANY PUMPING REQUIRED TO CONSTRUCT PONDS, UTILITIES, AND OUTFALLS, (AS DIRECTED BY ENGINEER), COMPLETE IN PLACE	LS	1	\$6,000.00	\$6,000.00	\$30,000.00	\$30,000.00	\$45,000.00	\$45,000.00
9.	EXTREME EVENT OVERFLOW CONCRETE LINED SWALE, (AS PER DETAIL SHEET 20 OF 27), COMPLETE IN PLACE	LF	315	\$226.86	\$71,460.90	\$150.00	\$47,250.00	\$125.00	\$39,375.00
10.	SWALE (INCLUDES EXCAVATION, HAULING AND GRADING (1-2-) SWALES) (AS PER SHEET 3 OF 27), COMPLETE IN PLACE	LF	2,345	\$3.00	\$7,035.00	\$4.00	\$9,380.00	\$6.00	\$14,070.00
11.	TRAPEZOIDAL OVERFLOW WEIR STRUCTURE IN POND C, INCLUDES 4" SLOPE PAVING (SEE DETAIL SHEET 8 OF 27), COMPLETE IN PLACE	EA	1	\$86,922.00	\$86,922.00	\$106,000.00	\$106,000.00	\$129,600.00	\$129,600.00

* MATHEMATICAL ERROR

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ITEM	DESCRIPTION	UNIT	QTY	4) LONGHORN EXCAVATORS, INC.		5) SONORA SWQM CO. DBA SONORA CONST.		6) G.W. PHILLIPS CONCRETE CONST. INC.	
				UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST
12.	TRAPEZOIDAL OVERFLOW WEIR IN BETWEEN POND D AND E, INCLUDES 4" SLOPE PAVING (SEE DETAIL SHEET 17 OF 27), COMPLETE IN PLACE	EA	1	\$36,042.00	\$36,042.00	\$35,800.00	\$35,800.00	\$26,000.00	\$26,000.00
SUBTOTAL DETENTION BASIN ITEMS					\$1,570,833.15	\$1,528,520.00	\$1,874,352.50		
MISCELLANEOUS ITEMS									
1.	HYDROMULCH SEEDING AND FINE GRADING, COMPLETE IN PLACE	AC	4.7	\$1,590.00	\$7,473.00	\$2,000.00	\$9,400.00	\$1,400.00	\$6,580.00
2.	EXTRA COST OF STORM SEWER WET SAND CONSTRUCTION, ALL LINE SIZES (C.O.H. DRAWING 02317-06), (TO BE USED ONLY AT THE WRITTEN DIRECTION OF THE ENGINEER), COMPLETE IN PLACE	LF	550	\$5.31	\$2,920.50	\$5.00	\$2,750.00	\$5.00	\$2,750.00
3.	DEWATERING (GROUND WATER CONTROL) TO COMPLETE THE CONSTRUCTION OF UTILITY LINES, ALL LINE SIZES AND DEPTHS, INCLUDES CONVENTIONAL VACUUM TYPE WELL POINTS, INTERNAL SUMPS AND PUMPS, OR ANY TYPE OF PUMPING AS NECESSARY TO COMPLETE THE CONSTRUCTION OF THE PROJECT, (TO BE USED ONLY AT THE WRITTEN DIRECTION OF THE ENGINEER), COMPLETE IN PLACE	LF	550	\$21.21	\$11,665.50	\$25.00	\$13,750.00	\$30.00	\$16,500.00
4.	BROADCAST SEEDING FOR BASIN BOTTOM, COMPLETE IN PLACE	AC	9.8	\$546.00	\$5,350.80	\$300.00	\$2,940.00	\$800.00	\$7,840.00
5.	CLEARING AND GRUBBING, (DEBRIS TO BE CHIPPED, HAULED AND DISPOSED OF OFFSITE), (TO BE USED ONLY AT THE WRITTEN DIRECTION OF THE ENGINEER), COMPLETE IN PLACE	AC	1	\$7,500.00	\$7,500.00	\$5,000.00	\$5,000.00	\$4,000.00	\$4,000.00
6.	4" STRIPPING OF FILL AREAS, INCLUDES STOCKPILING AND REAPPLICATION, COMPLETE IN PLACE	AC	41.7	\$1,290.00	\$53,793.00	\$600.00	\$25,020.00	\$1,500.00	\$62,550.00
7.	STRAW MAT FOR DETENTION POND SIDE SLOPES, FROM HIGH BANK TO TOE, COMPLETE IN PLACE	AC	4.7	\$6,042.00	\$28,397.40	\$23,000.00	\$108,100.00	\$900.00	\$3,760.00
8.	BROADCAST SEEDING FOR FILL AREAS, COMPLETE IN PLACE	AC	41.7	\$546.00	\$22,768.20	\$300.00	\$12,510.00	\$800.00	\$33,360.00
9.	4" SLOPE PAVING (SEE DETAIL SHEET 20 OF 27), COMPLETE IN PLACE	SY	115	\$63.60	\$7,314.00	\$84.00	\$9,660.00	\$72.00	\$8,280.00
10.	2' OVER EXCAVATION FOR PLACEMENT OF CLAY LINER, COMPLETE IN PLACE	CY	31,605	\$1.50	\$47,407.50	\$1.00	\$31,605.00	\$1.50	\$47,407.50
11.	STOCKPILE SUITABLE CLAY FOR CLAY LINER, ALL CLAY OF 25 PI OR GREATER AND MUST BE VERIFIED BY THE LAB, NEEDS TO BE STOCKPILED AS DIRECTED BY OWNER, COMPLETE IN PLACE	CY	31,605	\$1.50	\$47,407.50	\$1.00	\$31,605.00	\$1.50	\$47,407.50
12.	FILL AND COMPACT (95% STANDARD PROCTOR WITH 8" LIFTS), CLAY LINER, TO BE PLACED ON POND BOTTOM AND ALONG SIDE SLOPES TO BOTTOM OF SHELF, TO BE USED ONLY AS DIRECTED BY THE ENGINEER, COMPLETE IN PLACE	CY	31,605	\$1.50	\$47,407.50	\$1.00	\$31,605.00	\$1.50	\$47,407.50
13.	DEMUCK EXISTING WET AND UNSTABLE SOILS, UNSUITABLE DEMUCKED MATERIAL TO BE HAULED OFF AND BECOME PROPERTY OF THE CONTRACTOR (AS DIRECTED BY THE ENGINEER), COMPLETE IN PLACE	CY	10,000	\$3.00	\$30,000.00	\$5.00	\$50,000.00	\$20.00	\$200,000.00
14.	18" RIP RAP (AS PER DETAIL SHEET 22 OF 27), COMPLETE IN PLACE	SY	203	\$64.68	\$13,130.04	\$60.00	\$12,180.00	\$68.00	\$13,804.00
15.	ADJUST RIM ELEVATIONS OF EXISTING SAN MANHOLES TO BE 6" ABOVE FINISHED GRADE (AS PER SHEET 3 OF 27), COMPLETE IN PLACE	EA	4	\$1,062.00	\$4,248.00	\$225.00	\$900.00	\$600.00	\$2,400.00
16.	BREAK INTO EXISTING 24" SANITARY SEWER AND CONSTRUCT PROPOSED SANITARY MANHOLE, (AS PER SHEETS 3 OF 27), COMPLETE IN PLACE	EA	1	\$11,979.00	\$11,979.00	\$6,300.00	\$6,300.00	\$7,000.00	\$7,000.00
17.	REMOVE AND DISPOSE OF EXISTING PAVING (INCLUDES PAVEMENT, SUBGRADE AND CURB), (AS PER SHEET 3 OF 27), COMPLETE IN PLACE	SY	2,520	\$7.44	\$18,748.80	\$22.00	\$55,440.00	\$3.50	\$8,820.00

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				UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST
18.	ONSITE DUST CONTROL, CONTRACTOR TO OBTAIN A WATER METER FROM WCID NO. 110 (OR ANOTHER APPROVED SOURCE) AND WATER THE SITE AS NEEDED TO PREVENT ANY BLOWING DUST FOR THE DURATION OF THE PROJECT, CONTRACTOR IS RESPONSIBLE FOR THE COSTS ASSOCIATED WITH METER AND PURCHASING OF THE WATER FROM WCID NO. 110, COMPLETE IN PLACE	LS	1	\$4,500.00	\$4,500.00	\$18,000.00	\$18,000.00	\$30,000.00	\$30,000.00
19.	REMOVE AND REPLACE EXISTING CONCRETE COLLAR FOR EXISTING 48"R.C.P. (AS PER SHEET 3 OF 27), COMPLETE IN PLACE	EA	1	\$1,188.00	\$1,188.00	\$3,000.00	\$3,000.00	\$1,500.00	\$1,500.00
20.	REMOVE AND REPLACE EXISTING CONCRETE COLLAR FOR EXISTING 60" R.C.P. (AS PER SHEET 3 OF 27), COMPLETE IN PLACE	EA	1	\$1,425.00	\$1,425.00	\$4,800.00	\$4,800.00	\$1,800.00	\$1,800.00
21.	8" BRICK WALL PLUG (AS PER SHEET 3 OF 27) (ALL SIZES), COMPLETE IN PLACE	EA	2	\$1,380.00	\$2,760.00	\$200.00	\$400.00	\$1,500.00	\$3,000.00
22.	REMOVE TOP OF EXISTING MANHOLE 6-FOOT BELOW GRADE AND BACKFILL MANHOLE WITH 100PSI CEMENT STABILIZED SAND OR 100 PSI NON-SHRINK FLOWABLE, FILL GROUT (AS PER SHEET 3 OF 27), COMPLETE IN PLACE	EA	1	\$1,485.00	\$1,485.00	\$650.00	\$650.00	\$2,800.00	\$2,800.00
23.	GROUT IN EXISTING ABANDONED 18" SANITARY SEWER WITH 100 PSI NON-SHRINK FLOWABLE FILL GROUT (AS PER SHEET 3 OF 27), COMPLETE IN PLACE	LF	1,510	\$16.98	\$25,639.80	\$18.00	\$27,180.00	\$12.00	\$18,120.00
24.	2' SAWCUT (FULL DEPTH) OF EXISTING CONCRETE PAVEMENT (AS PER SHEET 18 OF 27), COMPLETE IN PLACE	LF	34	\$24.39	\$829.26	\$75.00	\$2,550.00	\$100.00	\$3,400.00
25.	TEMPORARY TRAFFIC CONTROL IN ORDER TO COMPLETE THE PROJECT, COMPLETE IN PLACE	LS	1	\$3,606.00	\$3,606.00	\$50,000.00	\$50,000.00	\$8,000.00	\$8,000.00
SUBTOTAL MISCELLANEOUS ITEMS					\$408,943.80	\$515,345.00	\$588,486.50		
ALTERNATE BID ITEMS									
1.	IMPORT AND STOCKPILE SUITABLE CLAY FOR CLAY LINER, ALL CLAY OF 25 PI OR GREATER AND MUST BE VERIFIED BY THE LAB, IN LIEU OF MISCELLANEOUS ITEM NO. 11, TO BE USED ONLY AS DIRECTED BY THE ENGINEER, NEEDS TO BE STOCKPILED AS DIRECTED BY THE OWNER, COMPLETE IN PLACE	CY	31,605	\$18.00	\$568,890.00	\$20.00	\$632,100.00	\$20.00	\$632,100.00
SUBTOTAL ALTERNATE BID ITEMS					\$568,890.00	\$632,100.00	\$632,100.00		
BID SUMMARY									
SUBTOTAL DRAINAGE FACILITIES ITEMS					\$885,882.00	\$839,759.00	\$750,805.00		
SUBTOTAL DETENTION BASIN ITEMS					\$1,570,833.15	\$1,528,520.00	\$1,874,352.50		
SUBTOTAL MISCELLANEOUS ITEMS					\$408,943.80	\$515,345.00	\$588,486.50		
TOTAL AMOUNT BID					\$2,865,658.95	\$2,883,624.00	\$3,213,644.00		
ALTERNATE BID									
TOTAL AMOUNT BID					\$2,865,658.95	\$2,883,624.00	\$3,213,644.00		
DEDUCT MISCELLANEOUS ITEM NO. 11					(\$47,407.50)	(\$31,605.00)	(\$47,407.50)		
SUBTOTAL ALTERNATE BID ITEMS					\$568,890.00	\$632,100.00	\$632,100.00		
TOTAL AMOUNT BID INCLUDING ALTERNATE					\$3,387,141.45	\$3,484,119.00	\$3,798,336.50		

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ITEM	DESCRIPTION	UNIT	QTY	7) LINDSEY CONSTRUCTION, INC.		8) TRIPLE B SERVICES, LLP	
				UNIT COST	TOTAL COST	UNIT COST	TOTAL COST
DRAINAGE FACILITIES ITEMS							
1.	12" RCP STORM SEWER PIPE, RESTRICTOR ASTM C-76, CLASS III, ALL DEPTHS, TO INCLUDE BEDDING AND BACKFILL, COMPLETE IN PLACE	LF	94	\$62.00	\$5,828.00	\$45.00	\$4,230.00
2.	24" RCP STORM SEWER PIPE, ASTM C-76, CLASS III, ALL DEPTHS, TO INCLUDE BEDDING AND BACKFILL, COMPLETE IN PLACE	LF	590	\$67.00	\$39,530.00	\$70.00	\$41,300.00
3.	24" CORRUGATED GALVANIZED METAL PIPE STORM SEWER, ALL DEPTHS, INCLUDING CEMENT STABILIZED SAND BACKFILL, COMPLETE IN PLACE	LF	228	\$65.00	\$14,820.00	\$77.00	\$17,556.00
4.	30" RCP STORM SEWER ASTM C-76, CLASS III, ALL DEPTHS, TO INCLUDE BEDDING AND BACKFILL, COMPLETE IN PLACE	LF	31	\$83.00	\$2,573.00	\$107.00	\$3,317.00
5.	36" RCP STORM SEWER ASTM C-76, CLASS III, ALL DEPTHS, TO INCLUDE BEDDING AND BACKFILL, COMPLETE IN PLACE	LF	150	\$105.00	\$15,750.00	\$135.00	\$20,250.00
6.	42" CORRUGATED GALVANIZED METAL PIPE STORM SEWER, ALL DEPTHS, INCLUDING CEMENT STABILIZED SAND BACKFILL, COMPLETE IN PLACE	LF	280	\$103.00	\$28,840.00	\$125.00	\$35,000.00
7.	42" RCP STORM SEWER PIPE, ASTM C-76, CLASS III, ALL DEPTHS, TO INCLUDE BEDDING, COMPLETE IN PLACE	LF	146	\$135.00	\$19,710.00	\$178.00	\$25,988.00
8.	8'X4' BOX CULVERT (ASTM C-1433) MEETING, COH SPECIFICATION INCLUDING BEDDING WITH CEMENT STABILIZED SAND WRAP, COH DWG NO. 02317-05 AND 02317-06, COMPLETE IN PLACE	LF	640	\$424.00	\$271,360.00	\$530.00	\$339,200.00
9.	TYPE "C" MANHOLE FOR 42" STORM SEWERS AND SMALLER, ALL DEPTHS, COMPLETE IN PLACE	EA	1	\$3,161.00	\$3,161.00	\$2,800.00	\$2,800.00
10.	TYPE "C" MANHOLE WITH E INLET TOP, ALL DEPTHS, COMPLETE IN PLACE	EA	3	\$3,036.00	\$9,108.00	\$4,400.00	\$13,200.00
11.	TYPE "E" INLET INCLUDES INLET PROTECTION BARRIERS, COMPLETE IN PLACE	EA	5	\$2,221.00	\$11,105.00	\$4,400.00	\$22,000.00
12.	REINFORCED CONCRETE JUNCTION BOX WITH TYPE "E" INLET TOP FOR 8'X4' R.C.B., COMPLETE IN PLACE	EA	2	\$19,570.00	\$39,140.00	\$16,300.00	\$32,600.00
13.	REINFORCED CONCRETE JUNCTION BOX WITH TYPE "E" INLET TOP FOR OUTFALL B, (AS PER SHEET 16 OF 27), COMPLETE IN PLACE	EA	1	\$23,472.00	\$23,472.00	\$16,000.00	\$16,000.00
14.	STANDARD 15' PRECAST CURB INLET (INCLUDES INLET PROTECTION BARRIERS, COMPLETE IN PLACE	EA	2	\$4,530.00	\$9,060.00	\$5,400.00	\$10,800.00
15.	TYPE "C" MANHOLE TOP, ON TOP OF 8'X4' RCB, COMPLETE IN PLACE	EA	3	\$16,557.00	\$49,671.00	\$2,600.00	\$7,800.00
16.	OUTFALL STRUCTURE FOR 24" CGMP INCLUDES RIP-RAP, (SEE DETAIL SHEET 22 OF 27), COMPLETE IN PLACE	EA	1	\$970.00	\$970.00	\$1,400.00	\$1,400.00
17.	OUTFALL STRUCTURE FOR 42" CGMP INCLUDES RIP RAP, (SEE DETAIL SHEET 22 OF 27), COMPLETE IN PLACE	EA	1	\$6,724.00	\$6,724.00	\$9,800.00	\$9,800.00
18.	OUTFALL SLOPE PROTECTION NO. 3 FOR 8'X4' R.C.B. (INCLUDES SLOPE PAVING AND RIP-RAP), (AS PER DETAIL SHEET 20 OF 27), COMPLETE IN PLACE	EA	1	\$7,950.00	\$7,950.00	\$8,100.00	\$8,100.00
19.	FLOATABLES COLLECTION SCREEN AND STRUCTURE (PER DETAIL SHEET 25 OF 27), INCLUDING SLOPE PAVING, COMPLETE IN PLACE	EA	2	\$58,300.00	\$116,600.00	\$15,000.00	\$30,000.00
20.	STORM WATER POLLUTION PREVENTION PLAN COMPLIANCE, INCLUDING INSTALLATION, MAINTENANCE AND REMOVAL OF FILTER FABRIC FENCE, STABILIZED CONSTRUCTION EXIT, CONCRETE TRUCK WASHOUT AND INLET PROTECTION, COMPLETE IN PLACE	LS	1	\$27,778.00	\$27,778.00	\$35,000.00	\$35,000.00

BID TABULATION FOR:

CONSTRUCTION OF THE DETENTION / MITIGATION PONDS
 TO SERVE CYPRESS FOREST RESERVES
 HARRIS COUNTY WATER CONTROL AND IMPROVEMENT DISTRICT NO. 110
 CITY OF HOUSTON E.T.J., HARRIS COUNTY, TEXAS
 JANUARY 11, 2018
 LJA ENGINEERING, INC.
 A. ZUMAYA
 JANUARY 11, 2018
 1605-2113 (9.2)

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

ITEM	DESCRIPTION	UNIT	QTY	7) LINDSEY CONSTRUCTION, INC.		8) TRIPLE B SERVICES, LLP	
				UNIT COST	TOTAL COST	UNIT COST	TOTAL COST
21.	TRENCH SAFETY SYSTEM, ALL DEPTHS, COMPLETE IN PLACE	LF	1,885	\$1.00	\$1,885.00	\$0.10	\$188.50
22.	ROCK FILTER DAM, TYPE 4, COMPLETE IN PLACE	EA	2	\$1,750.00	\$3,500.00	\$2,300.00	\$4,600.00
23.	COFFER DAM AND BY PASS PUMPING FOR OUTFALL CONSTRUCTION, COMPLETE IN PLACE	EA	2	\$5,830.00	\$11,660.00	\$5,000.00	\$10,000.00
24.	BREAK INTO EXISTING STORM SEWER MANHOLE AND CONNECT PROPOSED 24" STORM SEWER (AS PER SHEET 3 OF 27), COMPLETE IN PLACE	EA	1	\$1,425.00	\$1,425.00	\$8,000.00	\$8,000.00
25.	BREAK INTO EXISTING 48" STORM SEWER AND CONSTRUCT PROPOSED MANHOLE, (AS PER SHEET 3 OF 27), COMPLETE IN PLACE	EA	2	\$2,792.00	\$5,584.00	\$5,200.00	\$10,400.00
26.	REMOVE AND DISPOSE OF EXISTING STORM FACILITIES (AS PER SHEET 3 OF 27), COMPLETE IN PLACE	LS	1	\$11,875.00	\$11,875.00	\$10,000.00	\$10,000.00
27.	REMOVE AND DISPOSE OF EXISTING TYPE "C" MANHOLE, (AS PER SHEET 3 OF 27), COMPLETE IN PLACE	EA	4	\$513.00	\$2,052.00	\$750.00	\$3,000.00
28.	REMOVE AND DISPOSE OF EXISTING 48" RCP (AS PER SHEET 3 OF 27), COMPLETE IN PLACE	LF	540	\$21.00	\$11,340.00	\$17.50	\$9,450.00
SUBTOTAL DRAINAGE FACILITIES ITEMS					\$752,471.00		\$731,979.50
DETENTION BASIN ITEMS							
1.	DETENTION EXCAVATION, COMPLETE IN PLACE	CY	289,425	\$1.25	\$361,781.25	\$2.35	\$680,148.75
2.	COMPACTED FILL TO BE HAULED, PLACED AND COMPACTED ONSITE PER FILL PLANS (SHEETS 4 AND 5) TO 95% STANDARD PROCTOR DENSITY, COMPLETE IN PLACE	CY	289,425	\$3.65	\$1,056,401.25	\$4.65	\$1,345,826.25
3.	DEWATERING (GROUND WATER CONTROL) FOR DETENTION POND EXCAVATION, INCLUDES CONVENTIONAL VACUUM TYPE WELL POINTS, INTERNAL SUMPS AND PUMPS OR ANY TYPE OF PUMPING AS NECESSARY TO COMPLETE THE PROJECT CONSTRUCTION, AS DIRECTED BY ENGINEER, COMPLETE IN PLACE	AC	14.5	\$10,497.00	\$152,206.50	\$3,400.00	\$49,300.00
4.	6-FOOT REINFORCED CONCRETE LINED PILOT CHANNEL (SEE DETAIL SHEET 8 AND SHEET 9), COMPLETE IN PLACE	LF	2,935	\$52.00	\$152,620.00	\$165.00	\$484,275.00
5.	BACKSLOPE SWALE, INCLUDES EXCAVATION, EMBANKMENT, STRIPPING, STOCKPILE OF STRIPPINGS, RE-APPLICATION OF STRIPPINGS AND COMPACTION TO 95% STANDARD PROCTOR DENSITY, COMPLETE IN PLACE	LF	5,145	\$2.40	\$12,348.00	\$4.20	\$21,609.00
6.	BACKSLOPE INTERCEPTOR AND OUTFALL STRUCTURE, INCLUDES 24" C.M.P. INTERCEPTOR STRUCTURE, SLOPE PROTECTION AND TRENCH SAFETY, COMPLETE IN PLACE	EA	12	\$6,718.00	\$80,616.00	\$7,100.00	\$85,200.00
7.	HARRIS COUNTY OUTFALL PERMIT, COMPLETE IN PLACE	LS	1	\$2,915.00	\$2,915.00	\$657.50	\$657.50
8.	SURFACE PUMPING (SURFACE WATER CONTROL), INCLUDES ANY PUMPING REQUIRED TO CONSTRUCT PONDS, UTILITIES, AND OUTFALLS, (AS DIRECTED BY ENGINEER), COMPLETE IN PLACE	LS	1	\$5,831.00	\$5,831.00	\$50,000.00	\$50,000.00
9.	EXTREME EVENT OVERFLOW CONCRETE LINED SWALE, (AS PER DETAIL SHEET 20 OF 27), COMPLETE IN PLACE	LF	315	\$154.00	\$48,510.00	\$80.00	\$25,200.00
10.	SWALE (INCLUDES EXCAVATION, HAULING AND GRADING (1'-2') SWALES) (AS PER SHEET 3 OF 27), COMPLETE IN PLACE	LF	2,345	\$3.60	\$8,442.00	\$4.75	\$11,138.75
11.	TRAPEZOIDAL OVERFLOW WEIR STRUCTURE IN POND C, INCLUDES 4" SLOPE PAVING (SEE DETAIL SHEET 8 OF 27), COMPLETE IN PLACE	EA	1	\$94,287.00	\$94,287.00	\$93,000.00	\$93,000.00

* MATHEMATICAL ERROR

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CONSTRUCTION OF THE DETENTION / MITIGATION PONDS
 TO SERVE CYPRESS FOREST RESERVES
 HARRIS COUNTY WATER CONTROL AND IMPROVEMENT DISTRICT NO. 110
 CITY OF HOUSTON E.T.J., HARRIS COUNTY, TEXAS
 JANUARY 11, 2018
 LJA ENGINEERING, INC.
 A. ZUMAYA
 JANUARY 11, 2018
 1605-2113 (9.2)

ITEM	DESCRIPTION	UNIT	QTY	7) LINDSEY CONSTRUCTION, INC.		8) TRIPLE B SERVICES, LLP	
				UNIT COST	TOTAL COST	UNIT COST	TOTAL COST
12.	TRAPEZOIDAL OVERFLOW WEIR IN BETWEEN POND D AND E, INCLUDES 4" SLOPE PAVING (SEE DETAIL SHEET 17 OF 27), COMPLETE IN PLACE	EA	1	\$31,668.00	\$31,668.00	\$7,900.00	\$7,900.00
SUBTOTAL DETENTION BASIN ITEMS					\$2,007,626.00	\$2,854,255.25	
MISCELLANEOUS ITEMS							
1.	HYDROMULCH SEEDING AND FINE GRADING, COMPLETE IN PLACE	AC	4.7	\$1,813.00	\$8,521.10	\$2,300.00	\$10,810.00
2.	EXTRA COST OF STORM SEWER WET SAND CONSTRUCTION, ALL LINE SIZES (C.O.H. DRAWING 02317-06), (TO BE USED ONLY AT THE WRITTEN DIRECTION OF THE ENGINEER), COMPLETE IN PLACE	LF	550	\$5.00	\$2,750.00	\$50.00	\$27,500.00
3.	DEWATERING (GROUND WATER CONTROL) TO COMPLETE THE CONSTRUCTION OF UTILITY LINES, ALL LINE SIZES AND DEPTHS, INCLUDES CONVENTIONAL VACUUM TYPE WELL POINTS, INTERNAL SUMPS AND PUMPS, OR ANY TYPE OF PUMPING AS NECESSARY TO COMPLETE THE CONSTRUCTION OF THE PROJECT, (TO BE USED ONLY AT THE WRITTEN DIRECTION OF THE ENGINEER), COMPLETE IN PLACE	LF	550	\$25.00	\$13,750.00	\$25.00	\$13,750.00
4.	BROADCAST SEEDING FOR BASIN BOTTOM, COMPLETE IN PLACE	AC	9.8	\$635.00	\$6,223.00	\$740.00	\$7,252.00
5.	CLEARING AND GRUBBING, (DEBRIS TO BE CHIPPED, HAULED AND DISPOSED OF OFFSITE), (TO BE USED ONLY AT THE WRITTEN DIRECTION OF THE ENGINEER), COMPLETE IN PLACE	AC	1	\$8,750.00	\$8,750.00	\$9,000.00	\$9,000.00
6.	4" STRIPPING OF FILL AREAS, INCLUDES STOCKPILING AND REAPPLICATION, COMPLETE IN PLACE	AC	41.7	\$350.00	\$14,595.00	\$1,400.00	\$58,380.00
7.	STRAW MAT FOR DETENTION POND SIDE SLOPES, FROM HIGH BANK TO TOE, COMPLETE IN PLACE	AC	4.7	\$13,595.32	\$63,898.00	\$14,000.00	\$65,800.00
8.	BROADCAST SEEDING FOR FILL AREAS, COMPLETE IN PLACE	AC	41.7	\$630.00	\$26,271.00	\$700.00	\$29,190.00
9.	4" SLOPE PAVING (SEE DETAIL SHEET 20 OF 27), COMPLETE IN PLACE	SY	115	\$74.00	\$8,510.00	\$45.00	\$5,175.00
10.	2' OVER EXCAVATION FOR PLACEMENT OF CLAY LINER, COMPLETE IN PLACE	CY	31,605	\$1.20	\$37,926.00	\$4.50	\$142,222.50
11.	STOCKPILE SUITABLE CLAY FOR CLAY LINER, ALL CLAY OF 25 PI OR GREATER AND MUST BE VERIFIED BY THE LAB, NEEDS TO BE STOCKPILED AS DIRECTED BY OWNER, COMPLETE IN PLACE	CY	31,605	\$2.40	\$75,852.00	\$0.75	\$23,703.75
12.	FILL AND COMPACT (95% STANDARD PROCTOR WITH 8" LIFTS), CLAY LINER, TO BE PLACED ON POND BOTTOM AND ALONG SIDE SLOPES TO BOTTOM OF SHELF, TO BE USED ONLY AS DIRECTED BY THE ENGINEER, COMPLETE IN PLACE	CY	31,605	\$1.20	\$37,926.00	\$5.00	\$158,025.00
13.	DEMUCK EXISTING WET AND UNSTABLE SOILS, UNSUITABLE DEMUCKED MATERIAL TO BE HAULED OFF AND BECOME PROPERTY OF THE CONTRACTOR (AS DIRECTED BY THE ENGINEER), COMPLETE IN PLACE	CY	10,000	\$17.50	\$175,000.00	\$15.00	\$150,000.00
14.	18" RIP RAP (AS PER DETAIL SHEET 22 OF 27), COMPLETE IN PLACE	SY	203	\$69.00	\$14,007.00	\$75.00	\$15,225.00
15.	ADJUST RIM ELEVATIONS OF EXISTING SAN MANHOLES TO BE 6" ABOVE FINISHED GRADE (AS PER SHEET 3 OF 27), COMPLETE IN PLACE	EA	4	\$200.00	\$800.00	\$350.00	\$1,400.00
16.	BREAK INTO EXISTING 24" SANITARY SEWER AND CONSTRUCT PROPOSED SANITARY MANHOLE. (AS PER SHEETS 3 OF 27), COMPLETE IN PLACE	EA	1	\$5,549.00	\$5,549.00	\$3,200.00	\$3,200.00
17.	REMOVE AND DISPOSE OF EXISTING PAVING (INCLUDES PAVEMENT, SUBGRADE AND CURB), (AS PER SHEET 3 OF 27), COMPLETE IN PLACE	SY	2,520	\$11.50	\$28,980.00	\$6.00	\$15,120.00

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CONSTRUCTION OF THE DETENTION / MITIGATION PONDS
 TO SERVE CYPRESS FOREST RESERVES
 HARRIS COUNTY WATER CONTROL AND IMPROVEMENT DISTRICT NO. 110
 CITY OF HOUSTON E.T.J., HARRIS COUNTY, TEXAS
 JANUARY 11, 2018
 LJA ENGINEERING, INC.
 A. ZUMAYA
 JANUARY 11, 2018
 1605-2113 (9.2)

ITEM	DESCRIPTION	UNIT	QTY	7) LINDSEY CONSTRUCTION, INC.		8) TRIPLE B SERVICES, LLP	
				UNIT COST	TOTAL COST	UNIT COST	TOTAL COST
18.	ONSITE DUST CONTROL, CONTRACTOR TO OBTAIN A WATER METER FROM WCID NO. 110 (OR ANOTHER APPROVED SOURCE) AND WATER THE SITE AS NEEDED TO PREVENT ANY BLOWING DUST FOR THE DURATION OF THE PROJECT, CONTRACTOR IS RESPONSIBLE FOR THE COSTS ASSOCIATED WITH METER AND PURCHASING OF THE WATER FROM WCID NO. 110, COMPLETE IN PLACE	LS	1	\$23,326.00	\$23,326.00	\$75,000.00	\$75,000.00
19.	REMOVE AND REPLACE EXISTING CONCRETE COLLAR FOR EXISTING 48"R.C.P. (AS PER SHEET 3 OF 27), COMPLETE IN PLACE	EA	1	\$875.00	\$875.00	\$4,400.00	\$4,400.00
20.	REMOVE AND REPLACE EXISTING CONCRETE COLLAR FOR EXISTING 60" R.C.P. (AS PER SHEET 3 OF 27), COMPLETE IN PLACE	EA	1	\$991.00	\$991.00	\$4,400.00	\$4,400.00
21.	8" BRICK WALL PLUG (AS PER SHEET 3 OF 27) (ALL SIZES), COMPLETE IN PLACE	EA	2	\$170.00	\$340.00	\$600.00	\$1,200.00
22.	REMOVE TOP OF EXISTING MANHOLE 6-FOOT BELOW GRADE AND BACKFILL MANHOLE WITH 100PSI CEMENT STABILIZED SAND OR 100 PSI NON-SHRINK FLOWABLE, FILL GROUT (AS PER SHEET 3 OF 27), COMPLETE IN PLACE	EA	1	\$570.00	\$570.00	\$600.00	\$600.00
23.	GROUT IN EXISTING ABANDONED 18" SANITARY SEWER WITH 100 PSI NON-SHRINK FLOWABLE FILL GROUT (AS PER SHEET 3 OF 27), COMPLETE IN PLACE	LF	1,510	\$16.00	\$24,160.00	\$14.00	\$21,140.00
24.	2' SAWCUT (FULL DEPTH) OF EXISTING CONCRETE PAVEMENT (AS PER SHEET 18 OF 27), COMPLETE IN PLACE	LF	34	\$29.00	\$986.00	\$8.00	\$272.00
25.	TEMPORARY TRAFFIC CONTROL IN ORDER TO COMPLETE THE PROJECT, COMPLETE IN PLACE	LS	1	\$6,771.00	\$6,771.00	\$26,000.00	\$26,000.00
SUBTOTAL MISCELLANEOUS ITEMS					\$587,327.10	\$868,765.25	
ALTERNATE BID ITEMS							
1.	IMPORT AND STOCKPILE SUITABLE CLAY FOR CLAY LINER, ALL CLAY OF 25 PI OR GREATER AND MUST BE VERIFIED BY THE LAB, IN LIEU OF MISCELLANEOUS ITEM NO. 11, TO BE USED ONLY AS DIRECTED BY THE ENGINEER, NEEDS TO BE STOCKPILED AS DIRECTED BY THE OWNER, COMPLETE IN PLACE	CY	31,605	\$21.00	\$663,705.00	\$17.00	\$537,285.00
SUBTOTAL ALTERNATE BID ITEMS					\$663,705.00	\$537,285.00	
BID SUMMARY							
SUBTOTAL DRAINAGE FACILITIES ITEMS					\$752,471.00	\$731,979.50	
SUBTOTAL DETENTION BASIN ITEMS					\$2,007,626.00	\$2,854,255.25	
SUBTOTAL MISCELLANEOUS ITEMS					\$587,327.10	\$868,765.25	
TOTAL AMOUNT BID					\$3,347,424.10	\$4,455,000.00	
ALTERNATE BID							
TOTAL AMOUNT BID					\$3,347,424.10	\$4,455,000.00	
DEDUCT MISCELLANEOUS ITEM NO. 11					(\$75,852.00)	(\$23,703.75)	
SUBTOTAL ALTERNATE BID ITEMS					\$663,705.00	\$537,285.00	
TOTAL AMOUNT BID INCLUDING ALTERNATE					\$3,935,277.10	\$4,968,581.25	