



Appendix C

**CIP COST ESTIMATES**



**DALLAS EXECUTIVE AIRPORT  
13-31 RUNWAY/TAXIWAY EXTENSION  
ENGINEER'S OPINION OF PROBABLE COST  
PROJECT SUMMARY**

<b>OPINION OF PROBABLE COST</b>	
<b>SUMMARY</b>	<b>AMOUNT</b>
<b>Runway 13 Extension (535 feet)</b>	\$2,402,000.00
<b>Runway 13 Extension (685 feet)</b>	\$2,917,000.00
<b>Runway 13 - Taxiway Extension (535 feet) for 300-foot offset</b>	\$1,486,000.00
<b>Runway 13 - Taxiway Extension (685 feet) for 300-foot offset</b>	\$1,719,000.00
<b>Runway 13 - Taxiway Extension (535 feet + Bravo) for 400-foot offset</b>	\$16,654,000.00
<b>Runway 13 - Taxiway Extension (685 feet + Bravo) for 400-foot offset</b>	\$16,959,000.00

**DALLAS EXECUTIVE AIRPORT  
13-31 RUNWAY/TAXIWAY EXTENSION  
ENGINEER'S OPINION OF PROBABLE COST**

**COST ESTIMATE 1  
Runway 13 Extension (535 feet)**

ITEM #	DESCRIPTION	UNIT	ESTIMATED QUANTITY	Engineer's Opinion of Probable Cost	
				UNIT PRICE	AMOUNT
1	SITE PREPARATION	L.S.	1	\$150,000.00	\$150,000.00
2	EMBANKMENT	C.Y.	13,622	\$15.00	\$204,330.00
3	PAVEMENT	S.Y.	8,916	\$100.00	\$891,600.00
4	ELECTRICAL	L.S.	1	\$75,000.00	\$75,000.00
5	LOCALIZER & PAPI RELOCATION	L.S.	1	\$300,000.00	\$300,000.00
6	RUNWAY MARKINGS	L.S.	1	\$50,000.00	\$50,000.00
				<b>SUBTOTAL</b>	<b>\$1,670,930.00</b>
				<b>CONTINGENCY ( APPROXIMATELY 25%)</b>	<b>\$417,732.00</b>
				<b>ENGINEERING AND TESTING ( APPROXIMATELY 15%)</b>	<b>\$313,299.30</b>
				<b>TOTAL (CONTINGENCY+SUBTOTAL)</b>	<b>\$2,402,000.00</b>

**DALLAS EXECUTIVE AIRPORT  
13-31 RUNWAY/TAXIWAY EXTENSION  
ENGINEER'S OPINION OF PROBABLE COST**

**COST ESTIMATE 2  
Runway 13 Extension (685 feet)**

ITEM #	DESCRIPTION	UNIT	ESTIMATED QUANTITY	Engineer's Opinion of Probable Cost	
				UNIT PRICE	AMOUNT
1	SITE PREPARATION	L.S.	1	\$180,000.00	\$180,000.00
2	EMBANKMENT	C.Y.	17,441	\$15.00	\$261,615.00
3	PAVEMENT	S.Y.	11,417	\$100.00	\$1,141,700.00
4	ELECTRICAL	L.S.	1	\$96,000.00	\$96,000.00
5	LOCALIZER & PAPI RELOCATION	L.S.	1	\$300,000.00	\$300,000.00
6	RUNWAY MARKINGS	L.S.	1	\$50,000.00	\$50,000.00
				<b>SUBTOTAL</b>	<b>\$2,029,315.00</b>
				<b>CONTINGENCY ( APPROXIMATELY 25%)</b>	<b>\$507,328.00</b>
				<b>ENGINEERING AND TESTING ( APPROXIMATELY 15%)</b>	<b>\$380,496.45</b>
				<b>TOTAL (CONTINGENCY+SUBTOTAL)</b>	<b>\$2,917,000.00</b>

**DALLAS EXECUTIVE AIRPORT  
13-31 RUNWAY/TAXIWAY EXTENSION  
ENGINEER'S OPINION OF PROBABLE COST**

**COST ESTIMATE 3  
Runway 13 - Taxiway Extension (535 feet) for 300-foot offset**

ITEM #	DESCRIPTION	UNIT	ESTIMATED QUANTITY	Engineer's Opinion of Probable Cost	
				UNIT PRICE	AMOUNT
1	SITE PREPARATION	L.S.	1	\$95,000.00	\$95,000.00
2	EMBANKMENT	C.Y.	9,353	\$15.00	\$140,295.00
3	PAVEMENT	S.Y.	5,993	\$100.00	\$599,300.00
4	ELECTRICAL	L.S.	1	\$91,000.00	\$91,000.00
5	DRAINAGE IMPROVEMENTS	L.S.	1	\$100,000.00	\$100,000.00
6	TAXIWAY MARKINGS	L.S.	1	\$8,000.00	\$8,000.00
				<b>SUBTOTAL</b>	<b>\$1,033,595.00</b>
				<b>CONTINGENCY ( APPROXIMATELY 25%)</b>	<b>\$258,398.00</b>
				<b>ENGINEERING AND TESTING ( APPROXIMATELY 15%)</b>	<b>\$193,798.95</b>
				<b>TOTAL (CONTINGENCY+SUBTOTAL)</b>	<b>\$1,486,000.00</b>

**DALLAS EXECUTIVE AIRPORT  
13-31 RUNWAY/TAXIWAY EXTENSION  
ENGINEER'S OPINION OF PROBABLE COST**

**COST ESTIMATE 4  
Runway 13 - Taxiway Extension (685 feet) for 300-foot offset**

ITEM #	DESCRIPTION	UNIT	ESTIMATED QUANTITY	Engineer's Opinion of Probable Cost	
				UNIT PRICE	AMOUNT
1	SITE PREPARATION	L.S.	1	\$100,000.00	\$100,000.00
2	EMBANKMENT	C.Y.	11,779	\$15.00	\$176,685.00
3	PAVEMENT	S.Y.	6,993	\$100.00	\$699,300.00
4	ELECTRICAL	L.S.	1	\$110,000.00	\$110,000.00
5	DRAINAGE IMPROVEMENTS	L.S.	1	\$100,000.00	\$100,000.00
6	TAXIWAY MARKINGS	L.S.	1	\$10,000.00	\$10,000.00
				<b>SUBTOTAL</b>	<b>\$1,195,985.00</b>
				<b>CONTINGENCY ( APPROXIMATELY 25%)</b>	<b>\$298,996.00</b>
				<b>ENGINEERING AND TESTING ( APPROXIMATELY 15%)</b>	<b>\$224,247.15</b>
				<b>TOTAL (CONTINGENCY+SUBTOTAL)</b>	<b>\$1,719,000.00</b>

**DALLAS EXECUTIVE AIRPORT  
13-31 RUNWAY/TAXIWAY EXTENSION  
ENGINEER'S OPINION OF PROBABLE COST**

**COST ESTIMATE 5**

**Runway 13 - Taxiway Extension (535 feet + Bravo) for 400-foot offset**

ITEM #	DESCRIPTION	UNIT	ESTIMATED QUANTITY	Engineer's Opinion of Probable Cost	
				UNIT PRICE	AMOUNT
1	SITE PREPARATION	L.S.	1	\$900,000.00	\$900,000.00
2	EMBANKMENT	C.Y.	273,410	\$15.00	\$4,101,150.00
3	PAVEMENT	S.Y.	37,104	\$100.00	\$3,710,400.00
4	ELECTRICAL	L.S.	1	\$712,000.00	\$712,000.00
5	DRAINAGE IMPROVEMENTS	L.S.	1	\$200,000.00	\$200,000.00
5	TAXIWAY MARKINGS	L.S.	1	\$60,000.00	\$60,000.00
6	PAVEMENT REMOVAL	S.Y.	38,034	\$50.00	\$1,901,700.00
				<b>SUBTOTAL</b>	<b>\$11,585,250.00</b>
				<b>CONTINGENCY ( APPROXIMATELY 25%)</b>	<b>\$2,896,312.00</b>
				<b>ENGINEERING AND TESTING ( APPROXIMATELY 15%)</b>	<b>\$2,172,234.30</b>
				<b>TOTAL (CONTINGENCY+SUBTOTAL)</b>	<b>\$16,654,000.00</b>

**DALLAS EXECUTIVE AIRPORT  
13-31 RUNWAY/TAXIWAY EXTENSION  
ENGINEER'S OPINION OF PROBABLE COST**

**COST ESTIMATE 6  
Runway 13 - Taxiway Extension (685 feet + Bravo) for 400-foot offset**

ITEM #	DESCRIPTION	UNIT	ESTIMATED QUANTITY	Engineer's Opinion of Probable Cost	
				UNIT PRICE	AMOUNT
1	SITE PREPARATION	L.S.	1	\$900,000.00	\$900,000.00
2	EMBANKMENT	C.Y.	280,677	\$15.00	\$4,210,155.00
3	PAVEMENT	S.Y.	37,933	\$100.00	\$3,793,300.00
4	ELECTRICAL	L.S.	1	\$731,000.00	\$731,000.00
5	DRAINAGE IMPROVEMENTS	L.S.	1	\$200,000.00	\$200,000.00
5	TAXIWAY MARKINGS	L.S.	1	\$61,500.00	\$61,500.00
6	PAVEMENT REMOVAL	S.Y.	38,034	\$50.00	\$1,901,700.00
				<b>SUBTOTAL</b>	<b>\$11,797,655.00</b>
				<b>CONTINGENCY ( APPROXIMATELY 25%)</b>	<b>\$2,949,413.00</b>
				<b>ENGINEERING AND TESTING ( APPROXIMATELY 15%)</b>	<b>\$2,212,060.20</b>
				<b>TOTAL (CONTINGENCY+SUBTOTAL)</b>	<b>\$16,959,000.00</b>



**DALLAS EXECUTIVE AIRPORT  
RUNWAY 17-35 EXTENSION  
ENGINEER'S OPINION OF PROBABLE COST  
PROJECT SUMMARY**

<b>OPINION OF PROBABLE COST</b>	
<b>SUMMARY</b>	<b>AMOUNT</b>
ARC B-II ALTERNATIVE 1	\$3,054,000.00
ARC B-II ALTERNATIVE 2	\$3,802,000.00
ARC C/D ALTERNATIVE 1	\$27,329,000.00
ARC C/D ALTERNATIVE 2 *	\$78,985,000.00

\* THE COST FOR THIS ALTERNATIVE DOES NOT REFLECT THE COST FOR LAND ACQUISITION

**DALLAS EXECUTIVE AIRPORT  
 RUNWAY 17-35 EXTENSION  
 ENGINEER'S OPINION OF PROBABLE COST**

**ARC B-II ALTERNATIVE 1**

ITEM #	DESCRIPTION	UNIT	ESTIMATED QUANTITY	Engineer's Opinion of Probable Cost	
				UNIT PRICE	AMOUNT
1	SITE PREPARATION	L.S.	1	\$193,187.00	\$193,187.00
2	EMBANKMENT	C.Y.	35,011	\$15.00	\$525,165.00
3	PAVEMENT	S.Y.	11,867	\$100.00	\$1,186,700.00
4	ELECTRICAL	L.S.	1	\$100,000.00	\$100,000.00
5	RUNWAY 17 PAPI RELOCATION	L.S.	1	\$50,000.00	\$50,000.00
6	RUNWAY MARKINGS	L.S.	1	\$70,000.00	\$70,000.00
				<b>SUBTOTAL</b>	<b>\$2,125,052.00</b>
				<b>CONTINGENCY ( APPROXIMATELY 25%)</b>	<b>\$531,263.00</b>
				<b>ENGINEERING AND TESTING ( APPROXIMATELY 15%)</b>	<b>\$398,447.25</b>
				<b>TOTAL (CONTINGENCY+SUBTOTAL)</b>	<b>\$3,054,000.00</b>



**DALLAS EXECUTIVE AIRPORT  
 RUNWAY 17-35 EXTENSION  
 ENGINEER'S OPINION OF PROBABLE COST**

**ARC B-II ALTERNATIVE 2**

ITEM #	DESCRIPTION	UNIT	ESTIMATED QUANTITY	Engineer's Opinion of Probable Cost	
				UNIT PRICE	AMOUNT
1	SITE PREPARATION	L.S.	1	\$240,505.00	\$240,505.00
2	EMBANKMENT	C.Y.	54,290	\$15.00	\$814,350.00
3	PAVEMENT	S.Y.	13,567	\$100.00	\$1,356,700.00
4	ELECTRICAL	L.S.	1	\$114,000.00	\$114,000.00
5	RUNWAY 17 PAPI RELOCATION	L.S.	1	\$50,000.00	\$50,000.00
6	RUNWAY MARKINGS	L.S.	1	\$70,000.00	\$70,000.00
				<b>SUBTOTAL</b>	<b>\$2,645,555.00</b>
				<b>CONTINGENCY ( APPROXIMATELY 25%)</b>	<b>\$661,388.75</b>
				<b>ENGINEERING AND TESTING ( APPROXIMATELY 15%)</b>	<b>\$496,041.56</b>
				<b>TOTAL (CONTINGENCY+SUBTOTAL)</b>	<b>\$3,802,000.00</b>



**DALLAS EXECUTIVE AIRPORT  
 RUNWAY 17-35 EXTENSION  
 ENGINEER'S OPINION OF PROBABLE COST**

**ARC C/D ALTERNATIVE 1**

ITEM #	DESCRIPTION	UNIT	ESTIMATED QUANTITY	Engineer's Opinion of Probable Cost	
				UNIT PRICE	AMOUNT
1	SITE PREPARATION	L.S.	1	\$1,728,368.00	\$1,728,368.00
2	EMBANKMENT	C.Y.	970,367	\$15.00	\$14,555,505.00
3	PAVEMENT	S.Y.	23,967	\$100.00	\$2,396,670.00
4	ELECTRICAL	L.S.	1	\$201,500.00	\$201,500.00
5	RUNWAY 17 PAPI RELOCATION	L.S.	1	\$50,000.00	\$50,000.00
6	RUNWAY MARKINGS	L.S.	1	\$80,000.00	\$80,000.00
				<b>SUBTOTAL</b>	<b>\$19,012,043.00</b>
				<b>CONTINGENCY ( APPROXIMATELY 25%)</b>	<b>\$4,753,010.75</b>
				<b>ENGINEERING AND TESTING ( APPROXIMATELY 15%)</b>	<b>\$3,564,758.06</b>
				<b>TOTAL (CONTINGENCY+SUBTOTAL)</b>	<b>\$27,329,000.00</b>



**DALLAS EXECUTIVE AIRPORT  
 RUNWAY 17-35 EXTENSION  
 ENGINEER'S OPINION OF PROBABLE COST**

**ARC C/D ALTERNATIVE 2**

ITEM #	DESCRIPTION	UNIT	ESTIMATED QUANTITY	Engineer's Opinion of Probable Cost	
				UNIT PRICE	AMOUNT
1	SITE PREPARATION	L.S.	1	\$5,428,398.00	\$5,428,398.00
3	EMBANKMENT	C.Y.	2,928,468	\$10.00	\$29,284,680.00
4	PAVEMENT	S.Y.	44,783	\$100.00	\$4,478,300.00
5	ELECTRICAL	L.S.	1	\$376,000.00	\$376,000.00
6	RUNWAY 17 PAPI RELOCATION	L.S.	1	\$50,000.00	\$50,000.00
7	RUNWAY MARKINGS	L.S.	1	\$95,000.00	\$95,000.00
8	ROAD RELOCATION AND TUNNEL	L.S.	1	\$20,000,000.00	\$20,000,000.00
				<b>SUBTOTAL</b>	<b>\$59,712,378.00</b>
				<b>CONTINGENCY ( APPROXIMATELY 25%)</b>	<b>\$19,272,369.00</b>
				<b>TOTAL (CONTINGENCY+SUBTOTAL)</b>	<b>\$78,985,000.00</b>



**DALLAS EXECUTIVE AIRPORT  
PROPOSED APRONS  
ENGINEER'S OPINION OF PROBABLE COST**

UPS ITEM	DESCRIPTION	UNIT	ESTIMATED QUANTITY	Engineer's Opinion of Probable Cost	
				UNIT PRICE	AMOUNT
<b>PROPOSED APRON A</b>					
SS-120-3.1	SITE PREPARATION	L.S.	1	\$10,000.00	\$10,000.00
SS-310-5.1	EXISTING BASE MOUNTED EDGE LIGHT, REMOVED	EACH	2	\$500.00	\$1,000.00
P-152-4.1	UNCLASSIFIED EXCAVATION	C.Y.	189	\$20.00	\$3,780.00
P-209-5.1	CRUSHED AGGREGATE BASE COURSE (6")	S.Y.	400	\$25.00	\$10,000.00
P-501-8.1	PORTLAND CEMENT CONCRETE PAVEMENT (11")	S.Y.	400	\$85.00	\$34,000.00
P-620-5.1	TAXIWAY EDGE & NON-MOVEMENT LINE PAINTING	L.F.	260	\$2.00	\$520.00
<b>SUBTOTAL (APRON A)</b>					<b>\$59,300.00</b>

<b>PROPOSED APRON B</b>					
SS-120-3.1	SITE PREPARATION	L.S.	1	\$10,000.00	\$10,000.00
SS-310-5.1	EXISTING BASE MOUNTED EDGE LIGHT, REMOVED	EACH	3	\$500.00	\$1,500.00
P-152-4.1	UNCLASSIFIED EXCAVATION	C.Y.	487	\$20.00	\$9,740.00
P-209-5.1	CRUSHED AGGREGATE BASE COURSE (6")	S.Y.	1,130	\$25.00	\$28,250.00
P-501-8.1	PORTLAND CEMENT CONCRETE PAVEMENT (11")	S.Y.	1,130	\$85.00	\$96,050.00
P-620-5.1	TAXIWAY EDGE & NON-MOVEMENT LINE PAINTING	L.F.	530	\$2.00	\$1,060.00
<b>SUBTOTAL (APRON B)</b>					<b>\$146,600.00</b>

<b>PROPOSED APRON C</b>					
SS-120-3.1	SITE PREPARATION	L.S.	1	\$10,000.00	\$10,000.00
SS-310-5.1	EXISTING BASE MOUNTED EDGE LIGHT, REMOVED	EACH	2	\$500.00	\$1,000.00
P-152-4.1	UNCLASSIFIED EXCAVATION	C.Y.	725	\$20.00	\$14,500.00
P-209-5.1	CRUSHED AGGREGATE BASE COURSE (6")	S.Y.	1,536	\$25.00	\$38,400.00
P-501-8.1	PORTLAND CEMENT CONCRETE PAVEMENT (11")	S.Y.	1,536	\$85.00	\$130,560.00
P-620-5.1	TAXIWAY EDGE & NON-MOVEMENT LINE PAINTING	L.F.	220	\$2.00	\$440.00
<b>SUBTOTAL (APRON C)</b>					<b>\$194,900.00</b>

<b>PROPOSED APRON D</b>					
SS-120-3.1	SITE PREPARATION	L.S.	1	\$10,000.00	\$10,000.00
SS-310-5.1	EXISTING BASE MOUNTED EDGE LIGHT, REMOVED	EACH	2	\$500.00	\$1,000.00
P-152-4.1	UNCLASSIFIED EXCAVATION	C.Y.	415	\$20.00	\$8,300.00
P-209-5.1	CRUSHED AGGREGATE BASE COURSE (6")	S.Y.	879	\$25.00	\$21,975.00
P-501-8.1	PORTLAND CEMENT CONCRETE PAVEMENT (11")	S.Y.	879	\$85.00	\$74,715.00
P-620-5.1	TAXIWAY EDGE & NON-MOVEMENT LINE PAINTING	L.F.	236	\$2.00	\$472.00
<b>SUBTOTAL (APRON D)</b>					<b>\$116,462.00</b>

<b>PROPOSED APRON E</b>					
SS-120-3.1	SITE PREPARATION	L.S.	1	\$10,000.00	\$10,000.00
SS-310-5.1	EXISTING BASE MOUNTED EDGE LIGHT, REMOVED	EACH	1	\$500.00	\$500.00
P-152-4.1	UNCLASSIFIED EXCAVATION	C.Y.	306	\$20.00	\$6,120.00
P-209-5.1	CRUSHED AGGREGATE BASE COURSE (6")	S.Y.	647	\$25.00	\$16,175.00
P-501-8.1	PORTLAND CEMENT CONCRETE PAVEMENT (11")	S.Y.	647	\$85.00	\$54,995.00
P-620-5.1	TAXIWAY EDGE & NON-MOVEMENT LINE PAINTING	L.F.	220	\$2.00	\$440.00
<b>SUBTOTAL (APRON E)</b>					<b>\$88,230.00</b>

**PROPOSED APRON F**

SS-120-3.1	SITE PREPARATION	L.S.	1	\$10,000.00	\$10,000.00
SS-310-5.1	EXISTING BASE MOUNTED EDGE LIGHT, REMOVED	EACH	3	\$500.00	\$1,500.00
P-152-4.1	UNCLASSIFIED EXCAVATION	C.Y.	517	\$20.00	\$10,340.00
P-209-5.1	CRUSHED AGGREGATE BASE COURSE (6")	S.Y.	1,096	\$25.00	\$27,400.00
P-501-8.1	PORTLAND CEMENT CONCRETE PAVEMENT (11")	S.Y.	1,096	\$85.00	\$93,160.00
P-620-5.1	TAXIWAY EDGE & NON-MOVEMENT LINE PAINTING	L.F.	422	\$2.00	\$844.00
<b>SUBTOTAL (APRON F)</b>					<b>\$143,244.00</b>

**PROPOSED APRON G**

SS-120-3.1	SITE PREPARATION	L.S.	1	\$10,000.00	\$10,000.00
SS-310-5.1	EXISTING BASE MOUNTED EDGE LIGHT, REMOVED	EACH	3	\$500.00	\$1,500.00
P-152-4.1	UNCLASSIFIED EXCAVATION	C.Y.	259	\$20.00	
P-209-5.1	CRUSHED AGGREGATE BASE COURSE (6")	S.Y.	548	\$25.00	\$13,700.00
P-501-8.1	PORTLAND CEMENT CONCRETE PAVEMENT (11")	S.Y.	548	\$85.00	\$46,580.00
P-620-5.1	TAXIWAY EDGE & NON-MOVEMENT LINE PAINTING	L.F.	222	\$2.00	\$444.00
<b>SUBTOTAL (APRON G)</b>					<b>\$72,224.00</b>

**PROPOSED APRON H**

SS-120-3.1	SITE PREPARATION	L.S.	1	\$10,000.00	\$10,000.00
P-152-4.1	UNCLASSIFIED EXCAVATION	C.Y.	473	\$20.00	\$9,460.00
P-209-5.1	CRUSHED AGGREGATE BASE COURSE (6")	S.Y.	1,001	\$25.00	\$25,025.00
P-501-8.1	PORTLAND CEMENT CONCRETE PAVEMENT (11")	S.Y.	1,001	\$85.00	\$85,085.00
P-620-5.1	TAXIWAY EDGE & NON-MOVEMENT LINE PAINTING	L.F.	476	\$2.00	\$952.00
<b>SUBTOTAL (APRON H)</b>					<b>\$130,522.00</b>

**PROPOSED APRON I**

SS-120-3.1	SITE PREPARATION	L.S.	1	\$10,000.00	\$10,000.00
P-152-4.1	UNCLASSIFIED EXCAVATION	C.Y.	642	\$20.00	\$12,840.00
P-209-5.1	CRUSHED AGGREGATE BASE COURSE (6")	S.Y.	1,360	\$25.00	\$34,000.00
P-501-8.1	PORTLAND CEMENT CONCRETE PAVEMENT (11")	S.Y.	1,360	\$85.00	\$115,600.00
P-620-5.1	TAXIWAY EDGE & NON-MOVEMENT LINE PAINTING	L.F.	294	\$2.00	\$588.00
<b>SUBTOTAL (APRON I)</b>					<b>\$173,028.00</b>

**PROPOSED APRON J**

SS-120-3.1	SITE PREPARATION	L.S.	1	\$10,000.00	\$10,000.00
SS-310-5.1	EXISTING BASE MOUNTED EDGE LIGHT, REMOVED	EACH	2	\$500.00	\$1,000.00
P-152-4.1	UNCLASSIFIED EXCAVATION	C.Y.	495	\$20.00	\$9,900.00
P-209-5.1	CRUSHED AGGREGATE BASE COURSE (6")	S.Y.	1,040	\$25.00	\$26,000.00
P-501-8.1	PORTLAND CEMENT CONCRETE PAVEMENT (11")	S.Y.	1,040	\$85.00	\$88,400.00
P-620-5.1	TAXIWAY EDGE & NON-MOVEMENT LINE PAINTING	L.F.	286	\$2.00	\$572.00
D-751-5.1	TRENCH DRAIN	L.F.	265	\$100.00	\$26,500.00
<b>SUBTOTAL (APRON J)</b>					<b>\$162,372.00</b>

**SUBTOTAL (APRONS A thru J) \$1,286,882.00**

**CONTINGENCY ( APPROXIMATELY 15%) \$190,118.00**

**TOTAL (SUBTOTAL+CONTINGENCY) \$1,477,000.00**

**ENGINEERING SERVICES - CONSTRUCTION**

CONSTRUCTION ADMINISTRATION & RPR	\$50,000.00
MATERIALS TESTING	\$20,000.00
CLOSEOUT	\$3,000.00
<b>TOTAL ENGINEERING SERVICES - CONSTRUCTION</b>	<b>\$73,000.00</b>

**TOTAL OPINION OF PROBABLE COST \$1,550,000.00**

**ENGINEERING SERVICES - DESIGN**

SURVEYS	\$20,000.00
PRELIMINARY DESIGN	\$40,000.00
FINAL DESIGN	\$35,000.00
BIDDING SERVICES	\$5,000.00
<b>TOTAL ENGINEERING SERVICES - DESIGN</b>	<b>\$100,000.00</b>



**DALLAS EXECUTIVE AIRPORT (RBD)  
 RUNWAY 13-31 AND RUNWAY 17-35 ELECTRICAL IMPROVEMENTS  
 ENGINEER'S ESTIMATE OF PROBABLE COST**

UPS ITEM	DESCRIPTION	UNIT	ESTIMATED QUANTITY	Engineer's Estimate of Probable Cost	
				UNIT PRICE	AMOUNT
<b>RUNWAY ELECTRICAL IMPROVEMENTS (RW-EI)</b>					
1	Site Preparation	L.S.	1	\$43,100.00	\$43,100.00
2	Mobilization / Runway Closures	L.S.	1	\$13,000.00	\$13,000.00
3	Existing L-861 Light and Transformer Removed, Base	EA	124	\$50.00	\$6,200.00
4	New LED L-862 Elevated High Intensity Runway Light, Installed with New Transformer on Existing Base	EA	73	\$1,300.00	\$94,900.00
5	New LED L-850 In-Pavement High Intensity Runway Light, Installed on New Base	EA	10	\$4,000.00	\$40,000.00
6	New LED L-861 Elevated Medium Intensity Runway Light, Installed with New Transformer on Existing Base	EA	51	\$1,000.00	\$51,000.00
7	2"C Dry-Pit Boring	LF	700	\$75.00	\$52,500.00
8	L-824C, #8 AWG 5kV Cable	LF	1,500	\$3.00	\$4,500.00
9	#6 AWG Solid Bare Copper Counterpoise	LF	1,000	\$3.75	\$3,750.00
10	2" Conduit	LF	200	\$10.00	\$2,000.00
11	Megger Testing & LOTO	LS	1	\$2,000.00	\$2,000.00
<b>Subtotal (RW-EI)</b>					<b>\$312,950.00</b>
<b>Contingency (20%)</b>					<b>\$63,050.00</b>
<b>Total (Subtotal + Contingency)</b>					<b>\$376,000.00</b>
<b>Engineering Services</b>					
Engineering Design					\$65,000.00
Construction Administration & RPR					\$90,000.00
Closeout					\$5,000.00
<b>Total Engineering Services</b>					<b>\$160,000.00</b>
<b>TOTAL OPINION OF PROBABLE COST</b>					<b>\$536,000.00</b>



**DALLAS EXECUTIVE AIRPORT (RBD)  
TAXIWAY ELECTRICAL IMPROVEMENTS  
ENGINEER'S OPINION OF PROBABLE COST**

UPS ITEM	DESCRIPTION	UNIT	ESTIMATED QUANTITY	Engineer's Opinion of Probable Cost	
				UNIT PRICE	AMOUNT
1	Mobilization	LS	1	\$84,325.00	\$84,325.00
2	Existing L-861T Light and Transformer Removed, Base to Remain	EA	266	\$50.00	\$13,300.00
3	New LED L-861T Elevated Medium Intensity Taxiway Light Installed with New Transformer on Existing Base	EA	266	\$500.00	\$133,000.00
4	New LED L-861T Elevated Medium Intensity Taxiway Light Installed on New Base	EA	10	\$1,300.00	\$13,000.00
5	New LED 1-Mod L-858 Guidance Sign, Installed on Existing Base with New Transformer	EA	10	\$4,000.00	\$40,000.00
6	New LED 2-Mod L-858 Guidance Sign, Installed on Existing Base with New Transformer	EA	23	\$6,000.00	\$138,000.00
7	New LED 3-Mod L-858 Guidance Sign, Installed on Existing Base with New Transformer	EA	14	\$7,500.00	\$105,000.00
8	New LED 4-Mod L-858 Guidance Sign, Installed on Existing Base with New Transformer	EA	4	\$9,000.00	\$36,000.00
9	New 7.5kW CCR	EA	2	\$10,000.00	\$20,000.00
10	L-824C, #8 AWG 5kV Cable	LF	1,000	\$3.50	\$3,500.00
11	#6 AWG Solid Bare Copper Counterpoise	LF	500	\$3.75	\$1,875.00
12	2" Conduit	LF	500	\$10.00	\$5,000.00
13	Megger Testing & LOTO	LS	1	\$2,000.00	\$2,000.00
				<b>Subtotal (TW-EI)</b>	<b>\$595,000.00</b>
				<b>Contingency (20%)</b>	<b>\$119,000.00</b>
				<b>Total (Subtotal + Contingency)</b>	<b>\$714,000.00</b>
<b>Engineering Services</b>					
Engineering Design					\$75,000.00
Construction Administration & RPR					\$90,000.00
Closeout Services					\$5,000.00
<b>Total Engineering Services</b>					<b>\$170,000.00</b>
<b>TOTAL OPINION OF PROBABLE COST</b>					<b>\$884,000.00</b>

**DALLAS EXECUTIVE AIRPORT  
TAXILANE ROMEO EXTENSION  
ENGINEER'S ESTIMATE OF PROBABLE COST  
PRELIMINARY DESIGN**

SPEC. NO.	DESCRIPTION	UNIT	ESTIMATED QUANTITY	Engineer's Estimate of Probable Cost	
				UNIT PRICE	AMOUNT
SS-120-3.1	SITE PREPARATION	L.S.	100%	\$35,000.00	\$35,000.00
SS-272-5.1	EROSION CONTROL MATTING	S.Y.	8,418	\$2.00	\$16,836.00
TX-506-5.6	STORM WATER MANAGEMENT	MONTH	2	\$5,000.00	\$10,000.00
P-152-4.1	ROCK EXCAVATION	C.Y.	417	\$20.00	\$8,340.00
P-152-4.2	EMBANKMENT IN PLACE	C.Y.	1,225	\$15.00	\$18,375.00
P-154-5.1	SUBBASE COURSE (8")	S.Y.	4,507	\$8.00	\$36,056.00
P-155-8.1	LIME-TREATED SUBGRADE (6")	S.Y.	4,969	\$5.00	\$24,845.00
P-155-8.2	LIME	TON	81	\$175.00	\$14,175.00
P-501-8.1a	PORTLAND CEMENT CONCRETE PAVEMENT (10")	S.Y.	4,045	\$65.00	\$262,925.00
P-620-5.1	TAXIWAY PAINTING	S.F.	1,560	\$1.50	\$2,340.00
T-901-5.1	SEEDING	ACRE	1.7	\$1,500.00	\$2,550.00
T-905-5.1	TOPSOILING (OBTAINED FROM OFF THE SITE)	C.Y.	935	\$15.00	\$14,025.00
				<b>SUBTOTAL</b>	<b>\$445,467.00</b>
				<b>CONTINGENCY (10%)</b>	<b>\$44,546.70</b>
				<b>TOTAL (SUBTOTAL + CONTINGENCY)</b>	<b>\$490,013.70</b>
<b>ENGINEERING SERVICES</b>					
CONSTRUCTION ADMINISTRATION & RPR					\$45,000.00
CLOSEOUT SERVICES					\$5,000.00
<b>TOTAL ESTIMATED ENGINEERING SERVICES</b>					<b>\$50,000.00</b>
<b>SUBCONSULTANT AND OTHER SERVICES</b>					
MATERIALS TESTING SERVICES					\$25,000.00
<b>TOTAL ESTIMATED SUBCONSULTANT AND OTHER SERVICES</b>					<b>\$25,000.00</b>
<b>TOTAL ESTIMATED PROJECT AMOUNT</b>					<b>\$565,013.70</b>



**DALLAS EXECUTIVE AIRPORT  
ENGINEER'S OPINION OF PROBABLE COST**

**HOLD LINES ASSOCIATED WITH RUNWAY 13-31**

ITEM #	DESCRIPTION	UNIT	ESTIMATED QUANTITY	Engineer's Opinion of Probable Cost	
				UNIT PRICE	AMOUNT
1	SITE PREPARATION	L.S.	1	\$5,000.00	\$5,000.00
2	MARKING REMOVAL	S.F.	13,485	\$1.00	\$13,485.00
3	PAVEMENT MARKINGS	S.F.	13,485	\$2.00	\$26,970.00
				<b>SUBTOTAL</b>	<b>\$45,455.00</b>
				<b>CONTINGENCY ( APPROXIMATELY 25%)</b>	<b>\$11,363.00</b>
				<b>TOTAL (CONTINGENCY+SUBTOTAL)</b>	<b>\$56,818.00</b>

**DALLAS EXECUTIVE AIRPORT  
ENGINEER'S OPINION OF PROBABLE COST**

**RECONFIGURE TAXIWAY A-4**

ITEM #	DESCRIPTION	UNIT	ESTIMATED QUANTITY	Engineer's Opinion of Probable Cost	
				UNIT PRICE	AMOUNT
1	SITE PREPARATION	L.S.	1	\$25,000.00	\$25,000.00
2	DEMOLITION (PAVEMENT & ELECTRICAL)	L.S.	1	\$40,000.00	\$40,000.00
3	EMBANKMENT	C.Y.	1,000	\$15.00	\$15,000.00
4	SUBGRADE PREP.	S.Y.	2,630	\$6.00	\$15,780.00
5	AGGREGATE BASE COURSE	S.Y.	2,325	\$10.00	\$23,250.00
6	CONCRETE PAVEMENT	S.Y.	2,020	\$65.00	\$131,300.00
7	PAVEMENT MARKINGS	S.F.	1,655	\$2.00	\$3,310.00
8	SEDDING, SODDING, AND TOPSOIL	L.S.	1	\$8,000.00	\$8,000.00
9	ELECTRICAL	L.S.	1	\$10,000.00	\$10,000.00
				<b>SUBTOTAL</b>	<b>\$271,640.00</b>
				<b>CONTINGENCY ( APPROXIMATELY 25%)</b>	<b>\$67,910.00</b>
				<b>ENGINEERING SERVICES &amp; CONSTRUCTION ADMINISTRATION</b>	<b>\$70,000.00</b>
				<b>TOTAL (SUBTOTAL+CONTIGENCY+ENGINEERING)</b>	<b>\$409,550.00</b>

**DALLAS EXECUTIVE AIRPORT  
ENGINEER'S OPINION OF PROBABLE COST**

**IMPROVE DRAINAGE ON EAST SIDE OF AIRPORT**

ITEM #	DESCRIPTION	UNIT	ESTIMATED QUANTITY	Engineer's Opinion of Probable Cost	
				UNIT PRICE	AMOUNT
1	SITE PREPARATION	L.S.	1	\$40,000.00	\$40,000.00
2	DEMOLITION (HEADWALLS, FENCE, AND TREES)	L.S.	1	\$15,000.00	\$15,000.00
3	EMBANKMENT	C.Y.	3,000	\$15.00	\$45,000.00
4	6'x3' REINFORCED CONCRETE BOXES	L.F.	2,010	\$150.00	\$301,500.00
5	DRAINAGE INLETS	EACH	2	\$5,000.00	\$10,000.00
6	FENCE AND SOD	L.S.	1	\$10,000.00	\$10,000.00
<b>SUBTOTAL</b>					<b>\$421,500.00</b>
<b>CONTINGENCY ( APPROXIMATELY 20%)</b>					<b>\$84,000.00</b>
<b>ENGINEERING SERVICES &amp; CONSTRUCTION ADMINISTRATION</b>					<b>\$110,000.00</b>
<b>TOTAL (SUBTOTAL+CONTINGENCY+ENGINEERING)</b>					<b>\$615,500.00</b>

**DALLAS EXECUTIVE AIRPORT  
ENGINEER'S OPINION OF PROBABLE COST**

**INSTALL PAPI-4 ON RUNWAY 35**

ITEM #	DESCRIPTION	UNIT	ESTIMATED QUANTITY	Engineer's Opinion of Probable Cost	
				UNIT PRICE	AMOUNT
1	SITE PREPARATION	L.S.	1	\$10,000.00	\$10,000.00
2	ELECTRICAL LOCKOUT/TAGOUT	L.S.	1	\$2,000.00	\$2,000.00
3	L-880 PRECISION APPROACH PATH INDICATOR SYSTEM	EACH	1	\$30,000.00	\$30,000.00
4	PRECISION APPROACH PATH INDICATOR AIMING BAR	EACH	1	\$2,000.00	\$2,000.00
5	TRENCHING FOR DIRECT-BURIED BARE COUNTERPOISE WIRE	L.F.	1,200	\$4.00	\$4,800.00
6	NO. 8 AWG, 5kv, L-824C	L.F.	2,400	\$1.25	\$3,000.00
7	NO. 6 AWG, SOLID, BARE COUNTERPOISE WIRE	L.F.	2,400	\$1.25	\$3,000.00
8	NON-ENCASED, ELECTRICAL CONDUIT, 1-WAY 2" C	L.F.	1,200	\$10.00	\$12,000.00
9	CONCRETE ELECTRICAL JUNCTION STRUCTURE	EACH	2	\$1,000.00	\$2,000.00
				<b>SUBTOTAL</b>	<b>\$68,800.00</b>
				<b>CONTINGENCY ( APPROXIMATELY 10%)</b>	<b>\$6,880.00</b>
				<b>ENGINEERING SERVICES &amp; CONSTRUCTION ADMINISTRATION</b>	<b>\$10,000.00</b>
				<b>TOTAL (SUBTOTAL+CONTINGENCY+ENGINEERING)</b>	<b>\$85,680.00</b>

