



PHONE (605) 225-1212 TOLL FREE 1-888-378-4394 FAX (605) 225-3189

**PROJECT** 

### ATTACHMENT "B"

### SUMMARY OF ENGINEERING COSTS

### REHABILITATE RUNWAY 14/32 & ASSOCIATED CONNECTOR TAXIWAYS AND IMPROVE ELECTRICAL SYSTEM (PHASE 1) CALIFORNIA REDWOOD COAST - HUMBOLDT COUNTY AIRPORT ARCATA, CALIFORNIA

PROJECT DEVELOPMENT \$108,043.55

CONSTRUCTION ADMIN SERVICES \$443,428.10

CONSTRUCTION INSPECTION SERVICES \$749,118.80

PROJECT CLOSEOUT \$105,204.80

SPECIAL SERVICES \$33,525.54

LUMP SUM TOTAL \$1,439,320.79 \$1,439,320.79

TOTAL PROJECT ENGINEERING SERVICES \$1,439,320.79

**SECTION 1** 

### ATTACHMENT "B" SECTION 1, PHASE 1 REHABILITATE RUNWAY 14/32 & ASSOCIATED CONNECTOR TAXIWAYS AND IMPROVE ELECTRICAL SYSTEM (PHASE 1) CALIFORNIA REDWOOD COAST - HUMBOLDT COUNTY AIRPORT PROJECT DEVELOPMENT

Clerical II

(hrs)

0

24

		1	ROJECT DEVE	LOPMENT						
	Proj.	Senior	Proj.	Proj.	Pro	j	Land	Tech.	Tech.	Project
Work Description	Man.	Engr.	Engr. III	Engr. VI	Engr.	VII	Surveyor II	II	II	Administrator
	(hrs)	(hrs)	(hrs)	(hrs)	(hrs	s)	(hrs)	(hrs)	(hrs)	(hrs)
1 Conduct Scoping Meeting	24	24	24	0	0		0	0	0	0
2 Develop Draft Scope of Work	10	20	40	0	0		0	0	0	0
3 Coordinate with Subconsultants	20	40	60	0	0		0	0	0	0
4 Prepare Final Scope of Work	8	16	40	0	0		0	0	0	0
5 Coordinate with FAA ATO	4	8	24	0	0		0	0	8	16
TOTAL HOURS	66	108	188	0	0		0	0	8	16
	Hours		Rate \$/hr							
Project Manager	66	@	\$ 97.00	=	\$ 6,4	02.00				
Senior Engineer	108	@	\$ 59.00	=	\$ 6,3	72.00				
Project Engineer III	188	@	\$ 40.75	=	\$ 7,6	61.00				
Project Engineer VI	0	@	\$ 35.75	=	\$	-				
Project Engineer VII	0	@	\$ 32.75	=	\$	-				
Land Surveyor II	0	@	\$ 40.30	=	\$	-				
Technician II	0	@	\$ 32.00	=	\$	-				
Technician II	8	@	\$ 33.50	=	\$ 2	68.00				
Project Administrator	16	@	\$ 42.90	=	\$ 6	86.40				
Clerical II	24	@	\$ 20.00	=	\$ 4	80.00				
			SUBTOTAL (1	)	\$ 21.8	69.40				
			SCDTOTHE (	.,						
TOTAL DIRECT LABOR COST		Subtotal (1)		=		69.40				
DIRECT LABOR OVERHEAD	\$ 21,869.40		0.75886			95.81				
GENERAL & ADMIN. OVERHEAD	\$ 21,869.40	wages x	1.18313	=	\$ 25,8	74.34				
			SUBTOTAL (2	()	\$ 64,3	39.55				
PROFIT (P) AT 15% OF SUBTOTAL (2)	0.15	(P) x	\$ 64,339.55	=	\$ 9.6	50.93				
COST OF MONEY @ 2.734% OF SUBTOTAL (1) 0.02734		` /	\$ 21,869.40	=		97.91				
MILEAGE		Mi. @	\$ 0.2457	=	\$	-				
ADDITIONAL COSTS:			Meals	=	\$	_				
I DETITOR OF COURTS.			Lodging	=	\$	_				
			Airfare	=	\$	_				
			Rental Car	=	S	_				
OUTSIDE CONSULTANT @ COST			Rental Cal	=	\$	_				
COLDED CO. DODINETT C COST					Ψ					
			TOTAL			88.39				
		*Rl	EVISED TOTAL		\$ 108,0	43.55				

\*Revised Total is the difference in Annual Median Wages for South Dakota and California for Civil Engineers as reported by the Bureau of Labor Statistics

B-1 A-8673

# ATTACHMENT "B" SECTION 1, PHASE 2 REHABILITATE RUNWAY 14/32 & ASSOCIATED CONNECTOR TAXIWAYS AND IMPROVE ELECTRICAL SYSTEM (PHASE 1) CALIFORNIA REDWOOD COAST - HUMBOLDT COUNTY AIRPORT CONSTRUCTION ADMIN SERVICES

	Proj.	Senior	Proj.	Proj.	Proj.	Land	Tech.	Tech.	Project	Clerical
Work Description	Man.	Engr.	Engr. III	Engr. VI	Engr. VII	Surveyor II	II	II	Administrator	II
	(hrs)	(hrs)	(hrs)	(hrs)	(hrs)	(hrs)	(hrs)	(hrs)	(hrs)	(hrs)
Coordinate Const Contract Docs	2	4	8	0	0	0	0	0	16	8
2 Assist Sponsor with Registering for DIR number	2	4	8	0	0	0	0	0	16	8
3 Provide Sponsor Hard Copies of Contract Docs	0	0	4	0	0	0	0	0	0	8
4 Revew and Accept SPCD	4	8	16	0	0	0	0	0	0	0
5 Coordinate CMP	0	8	16	24	0	0	0	0	0	0
6 Review Subcontractor Contracts	8	16	0	0	0	0	0	0	0	0
7 Review Submittals	0	16	40	24	0	0	0	0	0	0
8 Conduct PreCon Meeting	16	16	16	16	0	0	0	0	0	4
9 Identify Survey Control Points	0	0	8	0	0	36	0	36	0	0
10 Provide Technical Assistance	20	80	310	0	0	0	0	0	0	0
11 Conduct ATO Coordination Meetings	4	12	12	0	0	0	0	0	0	0
12 Consruction Site Visits	64	64	160	0	0	0	0	0	0	0
13 Conduct PrePaving Meeting	16	16	16	0	0	0	0	0	0	4
14 Conduct Phase 3 PreCon Meeting	16	16	16	0	0	0	0	0	0	4
15 Prepare Change Orders	6	6	12	0	0	0	0	0	0	0
16 Prepare/Confirm Monthly Pay Requests	12	12	24	0	0	0	0	0	0	0
		•	•	•		•	•			•
TOTAL HOURS	170	278	666	64	0	36	0	36	32	36
	Hours		Rate \$/hr							
Project Manager	170	@	\$ 97.0	) =	\$ 16,490.00	_				
Senior Engineer	278	@	\$ 59.0	) =	\$ 16,402.00					
Project Engineer III	666	@	\$ 40.7		\$ 27,139.50					
Project Engineer VI	64	@	\$ 35.7	5 =	\$ 2,288.00					
Project Engineer VII	0	@	\$ 32.7	5 =	\$ -					
Land Surveyor II	36	@	\$ 40.30		\$ 1,450.80					
Technician II	0	@	\$ 32.0		\$ -					
Technician II	36	@	\$ 33.50		\$ 1,206.00					
Project Administrator	32	@	\$ 42.9		\$ 1,372.80					
Clerical II	36	@	\$ 20.0	) =	\$ 720.00					
			SUBTOTAL	(1)	\$ 67,069.10					
TOTAL DIRECT LABOR COST		Subtotal (1)		=	\$ 67,069.10	_				
DIRECT LABOR OVERHEAD	\$ 67,069.10	wages x	0.7588	66 =	\$ 50,896.06					
GENERAL & ADMIN. OVERHEAD	\$ 67,069.10		1.1831	3 =	\$ 79,351.46					
						=				
			SUBTOTAL	(2)	\$ 197,316.62					
				` '						
PROFIT (P) AT 15% OF SUBTOTAL (2)	0.15	5 (P) x	\$ 197,316.63	2 =	\$ 29,597.49	_				
COST OF MONEY @ 2.734% OF SUBTOTAL (1) 0.02734			\$ 67,069.10		\$ 1,833.67					
MILEAGE	(	Mi. @	\$ 0.245	7 =	\$ -					
ADDITIONAL COSTS:			Meals	=	\$ 2,530.00					
			Lodging	=	\$ 3,360.00					
			Airfare	=	\$ 14,250.00					
			Rental Car	=	\$ 2,970.00					
ELECTRICAL CONSULTANT @ COST				=	\$ 88,970.00	_				
						_				
			TOTAL		\$ 340,827.78					
		*RI	EVISED TOTA	L	\$ 443,428.10					
*Revised Total is the difference in Annual Median Wages for South Dakota and California for Civil Eng	ringers as reported by	the Bureau of Labor S	tatistics							

<sup>\*</sup>Revised Total is the difference in Annual Median Wages for South Dakota and California for Civil Engineers as reported by the Bureau of Labor Statistics

B-2 A-8673

# ATTACHMENT "B" SECTION 1, PHASE 3 REHABILITATE RUNWAY 14/32 & ASSOCIATED CONNECTOR TAXIWAYS AND IMPROVE ELECTRICAL SYSTEM (PHASE 1) CALIFORNIA REDWOOD COAST - HUMBOLDT COUNTY AIRPORT CONSTRUCTION INSPECTION SERVICES

WILD	Proj.	Senior		Proj.	Proj.		Proj.	Land	Tech.	Tech.	Project	Clerical
Work Description	Man. (hrs)	Engr. (hrs)	1	Engr. III (hrs)	Engr. VI (hrs)		Engr. VII (hrs)	Surveyor II (hrs)	II (hrs)	II (hrs)	Administrator (hrs)	II (hrs)
1 2 11 2 12 12 12 12				<u> </u>		+-						
1 Provide Full Time Inspection	0	0		0	1900 155	-	160	0	0	0	0	0
Prepare and Submit Weekly Inspection Reports	0	0		155		-	0	0	0	0		0
3 Conduct Final Inspection	24	24		24	24		0	0	0	0	0	0
TOTAL HOURS	24	24		179	2079		160	0	0	0	0	0
	Hours		F	Rate \$/hr								
Project Manager	24	@	\$	97.00	=	\$	2,328.00					
Senior Engineer	24	@	\$	59.00	=	\$	1,416.00					
Project Engineer III	179	@	\$	40.75	=	\$	7,294.25					
Project Engineer VI	2079	@	\$	35.75	=	\$	74,324.25					
Project Engineer VII	160	@	\$	32.75	=	\$	5,240.00					
Land Surveyor II	0	@	\$	40.30	=	\$	-					
Technician II	0	@	\$	32.00	=	\$	-					
Technician II	0	@	\$	33.50	=	\$	-					
Project Administrator	0	@	\$	42.90	=	\$	-					
Clerical II	0	@	\$	20.00	=	\$	-					
			SUB	STOTAL (1)		\$	90,602.50					
TOTAL DIRECT LABOR COST		Subtotal (1)			=	\$	90,602.50					
DIRECT LABOR OVERHEAD	\$ 90,602.50	wages x		0.75886	=	\$	68,754.61					
GENERAL & ADMIN. OVERHEAD	\$ 90,602.50	wages x		1.18313	=	\$	107,194.54					
			SUB	STOTAL (2)		\$	266,551.65					
PROFIT (P) AT 15% OF SUBTOTAL (2)	0.15	(P) x	\$ 1	266,551.65	=	\$	39,982.75					
COST OF MONEY @ 2.734% OF SUBTOTAL (1) 0.02734		(-)		90,602.50	=	\$	2,477.07					
MILEAGE		Mi. @	\$	0.2457	=	\$	2,297.30					
ADDITIONAL COSTS:			Mea		=	\$	9,295.00					
			Lods		=	\$	16,224.00					
			Airfa		=	\$	23,250.00					
			Rent	al Car	=	\$	440.00					
ELECTRICAL CONSULTANT @ COST					=	\$	100,000.00					
QA TESTING CONSULTANT @ COST					=	\$	150,000.00					
			тот	ΓAL		\$	610,517.77					
		*RI		ED TOTAL			749,118.80					

<sup>\*</sup>Revised Total is the difference in Annual Median Wages for South Dakota and California for Civil Engineers as reported by the Bureau of Labor Statistics

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# ATTACHMENT "B" SECTION 1, PHASE 4 REHABILITATE RUNWAY 14/32 & ASSOCIATED CONNECTOR TAXIWAYS AND IMPROVE ELECTRICAL SYSTEM (PHASE 1) CALIFORNIA REDWOOD COAST - HUMBOLDT COUNTY AIRPORT PROJECT CLOSEOUT

Work Description	Proj. Man.	Senior Engr.	Proj. Engr. III	Proj. Engr. VI	Pro Engr.	VII	Land Surveyor II	Tech. II	Tech. II	Project Administrator	Clerical II
1	(hrs)	(hrs)	(hrs)	(hrs)	(hr	_	(hrs)	(hrs)	(hrs)	(hrs)	(hrs)
1 Prepare Summary of Tests	4	8	16	40	0		0	0	0	0	8
Assist Sponsor with Grant Closeout Forms	4	8	16	0	0		0	0	0	32	8
Update Pavement Strength Survey Form	4	8	24	32	0		0	0	0	0	0
4 Update Part 139 Exhibits	2	4	24	0	0		0	40	0	0	0
5 Assist Sponsor with Updating AFD and Airport Master Record	2	8	24	0	0		0	8	0	0	0
6 Prepare Record Drawings	2	4	24	32	0		0	40	0	0	0
7 Prepare Final Engineers Report	2	8	24	40	0		0	16	0	0	8
TOTAL HOURS	20	48	152	144	0		0	104	0	32	24
	Hours		Rate \$/hr								
Project Manager	20	@	\$ 97.00	=	\$ 1,9	940.00					
Senior Engineer	48	@	\$ 59.00	=	\$ 2,8	332.00					
Project Engineer III	152	@	\$ 40.75	=	\$ 6,1	194.00					
Project Engineer VI	144	@	\$ 35.75	=	\$ 5,1	148.00					
Project Engineer VII	0	@	\$ 32.75	=	\$	-					
Land Surveyor II	0	@	\$ 40.30	=	\$	-					
Technician II	104	@	\$ 32.00	=	\$ 3,3	328.00					
Technician II	0	@	\$ 33.50	=	\$	-					
Project Administrator	32	@	\$ 42.90	=	\$ 1,3	372.80					
Clerical II	24	@	\$ 20.00	=	\$ 4	480.00					
			SUBTOTAL (1)		\$ 21,2	294.80					
TOTAL DIRECT LABOR COST		Subtotal (1)		=	\$ 21.2	294.80	-				
DIRECT LABOR OVERHEAD	\$ 21,294.80		0.75886	=		159.77					
GENERAL & ADMIN. OVERHEAD	\$ 21,294.80		1.18313	=		194.52					
	7 = 7,= 7, 11, 12		SUBTOTAL (2)			549.09	•				
PROFIT (P) AT 15% OF SUBTOTAL (2)	0.15	(P) x	\$ 62,649.09	=		397.36					
COST OF MONEY @ 2.734% OF SUBTOTAL (1) 0.027	34 x		\$ 21,294.80	=		582.20					
MILEAGE	0	Mi. @	\$ 0.2457	=	\$	-					
ADDITIONAL COSTS:			Meals	=	\$	-					
			Lodging	=	\$	-					
			Airfare	=	\$	-					
			Rental Car	=	\$	-					
OUTSIDE CONSULTANT @ COST				=	\$	-					
			TOTAL		\$ 72,0	628.65					

TOTAL \*REVISED TOTAL \$ 72,628.65 \$ 105,204.80

\*Revised Total is the difference in Annual Median Wages for South Dakota and California for Civil Engineers as reported by the Bureau of Labor Statistics

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# ATTACHMENT "B" SECTION 1, PHASE 5 REHABILITATE RUNWAY 14/32 & ASSOCIATED CONNECTOR TAXIWAYS AND IMPROVE ELECTRICAL SYSTEM (PHASE 1) CALIFORNIA REDWOOD COAST - HUMBOLDT COUNTY AIRPORT SPECIAL SERVICES

	Proj.	Senior	Proj.	Proj.		Proj.	Land	Tech.	Tech.	Project	Clerical
Work Description	Man.	Engr.	Engr. III	Engr. VI	]	Engr. VII	Surveyor II	II	II	Administrator	II
	(hrs)	(hrs)	(hrs)	(hrs)		(hrs)	(hrs)	(hrs)	(hrs)	(hrs)	(hrs)
1 Categorical Exclusion Form	10	10	40	0		0	0	0	0	0	8
2 DBE Program Assistance	10	10	0	0		0	0	0	0	40	8
TOTAL HOURS	20	20	40	0		0	0	0	0	40	16
	Hours		Rate \$/hr								
Project Manager	20	@	\$ 97.00	=	\$	1,940.00	-				
Senior Engineer	20	@	\$ 59.00	=	\$	1,180.00					
Project Engineer III	40	@	\$ 40.75	=	\$	1,630.00					
Project Engineer VI	0	@	\$ 35.75	=	\$	-					
Project Engineer VII	0	@	\$ 32.75	=	\$	-					
Land Surveyor II	0	@	\$ 40.30	=	\$	-					
Technician II	0	@	\$ 32.00	=	\$	-					
Technician II	0	@	\$ 33.50	=	\$	-					
Project Administrator	40	@	\$ 42.90	=	\$	1,716.00					
Categorical Exclusion Form  DBE Program Assistance  TOTAL HOURS  Project Manager Senior Engineer Project Engineer III Project Engineer VI Project Engineer VII Land Surveyor II Technician II Technician II Technician II Technician II Oliver Administrator Clerical II  TOTAL DIRECT LABOR COST DIRECT LABOR OVERHEAD GENERAL & ADMIN. OVERHEAD  PROFIT (P) AT 15% OF SUBTOTAL (2) COST OF MONEY @ 2.734% OF SUBTOTAL (1) MILEAGE ADDITIONAL COSTS:	16	@	\$ 20.00	=	\$	320.00					
			SUBTOTAL (1	)	\$	6,786.00					
TOTAL DIRECT LABOR COST		Subtotal (1)		=	\$	6,786.00	-				
DIRECT LABOR OVERHEAD	\$ 6,786.00	wages x	0.75886	=	\$	5,149.62					
GENERAL & ADMIN. OVERHEAD	\$ 6,786.00	wages x	1.18313	=	\$	8,028.72	•				
			SUBTOTAL (2	)	\$	19,964.34					
PROFIT (P) AT 15% OF SUBTOTAL (2)	0.15	(P) x	\$ 19,964.34	=	\$	2,994.65	-				
COST OF MONEY @ 2.734% OF SUBTOTAL (	1) 0.02734 x	` ,	\$ 6,786.00	=	\$	185.53					
		Mi. @	\$ 0.2457	=	\$	-					
ADDITIONAL COSTS:			Meals	=	\$	-					
			Lodging	=	\$	-					
			Airfare	=	\$	-					
			Rental Car	=	\$	-					
OUTSIDE CONSULTANT @ COST				=	\$	-					
OUTSIDE CONSULTANT @ COST				=	\$						

TOTAL \$ 23,144.52

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