

CIVIL ENGINEERS & LAND SURVEYORS

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

### ATTACHMENT "B"

### SUMMARY OF ENGINEERING COSTS

A.I.P. PROJECT NO. 3-06-0010-057-2023

### REHABILITATE AIRPORT LIGHTING SYSTEM CALIFORNIA REDWOOD COAST - HUMBOLDT COUNTY AIRPORT MCKINLEYVILLE, CALIFORNIA

		PROJECT TOTAL
SECTION 1		
PROJECT DEVELOPMENT	\$61,784.20	
PROJECT CLOSEOUT	\$55,138.02	
SPECIAL SERVICES _	\$15,544.18	
LUMP SUM TOTAL	\$132,466.40	\$132,466.40
SECTION 2		
BIDDING SERVICES	\$55,801.90	
LUMP SUM TOTAL	\$55,801.90	\$55,801.90
SECTION 3		
CONSTRUCTION ADMINISTRATION		
COSTS	\$320,219.51	
**FIXED FEE	\$20,259.56	
TOTAL	\$340,479.07	\$340,479.07
SECTION 4		
CONSTRUCTION OBSERVATION		
COSTS	\$151,945.49	
**FIXED FEE	\$20,740.78	
TOTAL	\$172,686.27	\$172,686.27
TOTAL PROJE	CT ENGINEERING SERVICES	\$701,433.63

A-9138 AIP# 3-06-0010-057-2023

## ATTACHMENT "B" SECTION I, PHASE I REHABILITATE AIRPORT LIGHTING SYSTEM CALIFORNIA REDWOOD COAST - HUMBOLDT COUNTY AIRPORT PROJECT DEVELOPMENT

	Proj.	Senior		Proj.	Proj.		Land	Tech.	Tech.	Project	Clerical
Work Description	Man.	Engr.		Engr. II	Engr. V	S	urveyor III	II	I	Administrator	II
•	(hrs)	(hrs)		(hrs)	(hrs)		(hrs)	(hrs)	(hrs)	(hrs)	(hrs)
Conduct Scoping Meeting	20	20		20	0		0	0	0	0	0
2 Develop Draft Scope of Work	4	8		12	0		0	0	0	0	2
3 Coordinate with Subconsultants	10	20		40	0		0	0	0	0	0
Prepare Final Scope of Work	2	4		6	0		0	0	0	0	2
5 Coordinate with FAA ATO	8	12		0	0		0	0	0	0	0
TOTAL HOURS	44	64		78	0		0	0	0	0	4
	Hours			Rate \$/hr							
Project Manager	44	@	\$	102.00	=	\$	4,488.00				
Senior Engineer	64	@	\$	80.00	=	\$	5,120.00				
Project Engineer II	78	@	\$	44.25	=	\$	3,451.50				
Project Engineer V	0	@	\$	37.25	=	\$	_				
Land Surveyor III	0	@	\$	43.20	=	\$	-				
Technician II	0	@	\$	33.50	=	\$	-				
Technician I	0	@	\$	36.00	=	\$	-				
Project Administrator	0	@	\$	44.90	=	\$	-				
Clerical II	4	@	\$	21.20	=	\$	84.80				
			SIII	BTOTAL (1)	,	\$	13,144.30				
			502	0101.12 (1)		Ψ	15,111150				
TOTAL DIRECT LABOR COST		Subtotal (1)			=	\$	13,144.30				
DIRECT LABOR OVERHEAD	- ,			0.70176	=	\$	9,224.14				
GENERAL & ADMIN. OVERHEAD \$	13,144.30	wages x		1.27816	=	\$	16,800.52				
			SUI	BTOTAL (2)		\$	39,168.96				
PROFIT (P) AT 15% OF SUBTOTAL (2)	0.15	(P) x	\$	39,168,96	=	\$	5,875.34				
COST OF MONEY @ 1.032% OF SUBTOTAL (1) 0.01032 x	0.13	(1) A	\$	13,144.30	=	\$	135.65				
MILEAGE	0	Mi. @	\$	0.2441	=	\$	-				
ADDITIONAL COSTS:	O		Mea		=	\$	240.00				
ADDITIONAL COSTS.				lging	=	\$	288.00				
			Air		=	\$	2,250.00				
				ital Car	=	\$	220.00				
OUTSIDE SERVICES @ COST			11011		=	\$	-				
			me			ф.	40.488.65				
				TAL		\$	48,177.95				
		*RI	EVIS	ED TOTAL		\$	61,784.20				

<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

## ATTACHMENT "B" SECTION I, PHASE II REHABILITATE AIRPORT LIGHTING SYSTEM CALIFORNIA REDWOOD COAST - HUMBOLDT COUNTY AIRPORT PROJECT CLOSEOUT

Clerical

II (hrs) 0

0

12

			*D		TAL ED TOTAL		\$ \$	44,924.45 55,138.02			
								,			
OUTSIDE SERVICES @ COST				ROII	····· Cui	=	\$	11,010.00			
					ital Car	=	\$	-			
				Airt		=	\$	-			
ADDITIONAL COSTS.					ais Iging	=	\$	-			
ADDITIONAL COSTS:		U	IVII. W	Me:		=	\$	-			
MILEAGE	2 X	0	Mi. @	\$	0.2441	=	\$	101.83			
COST OF MONEY @ 1.032% OF SUBTOTAL (1) 0.01032	) v	0.15	(F) X	\$	29,402.28 9,866.80	= =	\$	4,410.34 101.83			
PROFIT (P) AT 15% OF SUBTOTAL (2)		0.15	(P) x	\$	29,402.28	=	\$	4,410.34			
	•	,	₩.	SIT	BTOTAL (2)		\$	29,402.28			
GENERAL & ADMIN. OVERHEAD	\$	9,866.80			1.27816	=	\$	12,611.35			
DIRECT LABOR OVERHEAD	\$	9,866.80			0.70176	=	\$	6,924.13			
TOTAL DIRECT LABOR COST			Subtotal (1)			=	\$	9,866.80			
				SUI	BTOTAL (1)		\$	9,866.80			
Clerical II		12	@	\$	21.20	=	\$	254.40			
Project Administrator		16	@	\$	44.90	=	\$	718.40			
Technician I		70	@	\$	36.00	=	\$	2,520.00			
Technician II		0	@	\$	33.50	=	\$	-			
Land Surveyor III		0	@	\$	43.20	=	\$	-			
Project Engineer V		70	@	\$	37.25	=	\$	2,607.50			
Project Engineer II		58	@	\$	44.25	=	\$	2,566.50			
Senior Engineer		15	@	\$	80.00	=	\$	1,200.00			
Project Manager		0	@	\$	102.00	=	\$				
		Hours			Rate \$/hr						
TOTAL HOURS		0	15		58	70		0	0	70	16
6 Prepare Final Engineers Report		0	5		10	40		0	0	0	0
5 Prepare Record Drawings		0	5		10	10		0	0	30	0
4 Assist Sponsor with Updating AFD and Airport Master Record		0	0		10	0		0	0	20	0
3 Update Part 139 Exhibits	_	0	0		10	0	_	0	0	20	0
2 Assist Sponsor with Grant Closeout Forms		0	0		8	0		0	0	0	16
1 Prepare Summary of Tests		0	5		10	20		0	0	0	0
		(hrs)	(hrs)		(hrs)	(hrs)		(hrs)	(hrs)	(hrs)	(hrs)
Work Description		Man.	Engr.		Engr. II	Engr. V	S	urveyor III	П	I	Administrate
		Proj.	Senior		Proj.	Proj.		Land	Tech.	Tech.	Project

\*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

## ATTACHMENT "B" SECTION 1, PHASE III REHABILITATE AIRPORT LIGHTING SYSTEM CALIFORNIA REDWOOD COAST - HUMBOLDT COUNTY AIRPORT SPECIAL SERVICES

Work Description	Proj. Man. (hrs)	Senior Engr. (hrs)	]	Proj. Engr. II (hrs)	Proj. Engr. V (hrs)	S	Land urveyor III (hrs)	Tech. II (hrs)	Tech. I (hrs)	Project Administrator (hrs)	Clerical II (hrs)
Update Categorical Exclusion Form	2	4		16	0		0	0	8	0	0
2 DBE Program Assistance	2	4		8	0		0	0	0	24	0
TOTAL HOURS	4	8		24	0		0	0	8	24	0
	Hours		R	Rate \$/hr							
Project Manager	4	@	\$	102.00	=	\$	408.00				
Senior Engineer	8	@	\$	80.00	=	\$	640.00				
Project Engineer II	24	@	\$	44.25	=	\$	1,062.00				
Project Engineer V	0	@	\$	37.25	=	\$	-				
Land Surveyor III	0	@	\$	43.20	=	\$	-				
Technician II	0	@	\$	33.50	=	\$	-				
Technician I	8	@	\$	36.00	=	\$	288.00				
Project Administrator	24	@	\$	44.90	=	\$	1,077.60				
Clerical II	0	@	\$	21.20	=	\$	-				
			SUB	TOTAL (1)		\$	3,475.60				
TOTAL DIRECT LABOR COST		Subtotal (1)			=	\$	3,475.60				
DIRECT LABOR OVERHEAD \$	3.475.60	wages x		0.70176	=	\$	2,439.04				
GENERAL & ADMIN. OVERHEAD \$				1.27816	=	\$	4,442.37				
			SUB	TOTAL (2)		\$	10,357.01				
PROFIT (P) AT 15% OF SUBTOTAL (2)	0.15	i (P) x	\$	10,357.01	=	\$	1,553.55				
COST OF MONEY @ 1.032% OF SUBTOTAL (1) 0.01032 x			\$	3,475.60	=	\$	35.87				
MILEAGE		Mi. @	\$	0.2441	=	\$	-				
ADDITIONAL COSTS:			Meal	ls	=	\$	-				
			Lodg	ging	=	\$	-				
			Airfa		=	\$	-				
			Rent	al Car	=	\$	-				
OUTSIDE SERVICES @ COST					=	\$	-				
			тот	AL		\$	11,946.43				

\$ 15,544.18

<sup>\*</sup>REVISED TOTAL \*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

## ATTACHMENT "B" SECTION 2 REHABILITATE AIRPORT LIGHTING SYSTEM CALIFORNIA REDWOOD COAST - HUMBOLDT COUNTY AIRPORT BIDDING SERVICES

	Proj		Senior		Proj.	Proj.		Land	Tech.	Tech.	Project	Clerical
Work Description	Man		Engr.		Engr. II	Engr. V	S	urveyor III	II	I	Administrator	II
-	(hrs)		(hrs)		(hrs)	(hrs)		(hrs)	(hrs)	(hrs)	(hrs)	(hrs)
1 Assist with Advertising	0		2		8	0		0	0	0	0	4
2 Provide Technical Assistance During Bidding	2		8		32	0		0	0	0	0	0
3 Attend and Assist with PreBid Meeting	0		20		20	0		0	0	0	0	0
4 Provide Online Bidding Platform	2		2		2	0		0	0	0	0	4
5 Prepare Abstract of Bids	0		1		2	0		0	0	0	0	1
6 Update Preliminary Grant Application	0		2		4	0		0	0	0	0	1
7 Assist with Award Notification	0		2		4	0		0	0	0	0	1
TOTAL HOURS	4		37		72	0		0	0	0	0	11
	Hour	s			Rate \$/hr							
Project Manager	4		@	\$	102.00	=	\$	408.00				
Senior Engineer	37		@	\$	80.00	=	\$	2,960.00				
Project Engineer II	72		@	\$	44.25	=	\$	3,186.00				
Project Engineer V	0		@	\$	37.25	=	\$	-				
Land Surveyor III	0		@	\$	43.20	=	\$	-				
Technician II	0		@	\$	33.50	=	\$	-				
Technician I	0		@	\$	36.00	=	\$	-				
Project Administrator	0		@	\$	44.90	=	\$	-				
Clerical II	11		@	\$	21.20	=	\$	233.20				
				SU	BTOTAL (1)		\$	6,787.20				
TOTAL DIRECT LABOR COST			Subtotal (1)			=	\$	6,787.20				
DIRECT LABOR OVERHEAD	\$ 6,78	37.20	wages x		0.70176	=	\$	4,762.99				
GENERAL & ADMIN. OVERHEAD			wages x		1.27816	=	\$	8,675.13				
				SU	BTOTAL (2)		\$	20,225.32				
PROFIT (P) AT 15% OF SUBTOTAL (2)		0.15	(P) x	\$	20,225.32	=	\$	3,033.80				
COST OF MONEY @ 1.032% OF SUBTOTAL (1) 0.01032	2 x		* 1	\$	6,787.20	=	\$	70.04				
MILEAGE			Mi. @	\$	0.2441	=	\$	-				
ADDITIONAL COSTS:				Me	als	=	\$	160.00				
				Loc	lging		\$	192.00				
					fare	=	\$	1,500.00				
				Rer	ntal Car	=	\$	220.00				
OUTSIDE SERVICES @ COST						=	\$	23,375.00				
				то	m		φ.	40.557.17				
				- 10	TAL		5	48,776.16				

<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

## ATTACHMENT "B" SECTION 3 REHABILITATE AIRPORT LIGHTING SYSTEM CALIFORNIA REDWOOD COAST - HUMBOLDT COUNTY AIRPORT CONSTRUCTION ADMINISTRATION

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w to	l	Proj.	Senior		Proj.	Proj.	1.	Land	Tech.	Tech.	Project	Clerical
Work Description	l	Man.	Engr.		Engr. II	Engr. V	1 5	Surveyor III	II	I	Administrator	
	ᄂ	(hrs)	(hrs)		(hrs)	(hrs)	_	(hrs)	(hrs)	(hrs)	(hrs)	(hrs)
1 Coordinate Const Contract Docs	<u>↓</u>	0	2		4	0		0	0	0	8	2
Assist Sponsor with Registering for DIR number	Ь.	0	2		8	0		0	0	0	0	0
3 Provide Sponsor Copies of Contract Docs	<u>↓</u>	0	0		4	0		0	0	0	0	2
4 Review and Accept SPCD	Ь.	0	2		4	0		0	0	0	0	0
5 Review Subcontractor Contracts	Ь.	0	4		8	0		0	0	0	16	0
6 Review Submittals	Ь_	0	4		24	0		0	0	0	0	0
7 Conduct PreCon Meeting	Ь.	0	20		20	20		0	0	0	0	0
8 Identify Survey Control Points	<u>↓</u>	0	4		8	8		16	0	0	0	0
9 Provide Technical Assistance	Ь.	10	40		90	0		0	0	0	0	0
10 Conduct ATO Coordination Meetings	<u>↓</u>	12	12		12	0		0	0	0	0	0
11 Consruction Site Visits	Ь.	0	80		120	0		0	0	0	0	0
12 Prepare Change Orders	Ь_	0	4		16	0		0	0	0	0	0
13 Prepare/Confirm Monthly Pay Requests	<u> </u>	0	8		24	0		0	0	0	0	0
TOTAL HOURS		22	182		342	28		16	0	0	24	4
		Hours			Rate \$/hr							
Project Manager		22	@	\$	102.00	=	\$	2,244.00				
Senior Engineer		182	@	\$	80.00	=	\$	14,560.00				
Project Engineer II		342	@	\$	44.25	=	\$	15,133.50				
Project Engineer V		28	@	\$	37.25	=	\$	1,043.00				
Land Surveyor III		16	@	\$	43.20	=	\$	691.20				
Technician II		0	@	\$	33.50	=	\$	-				
Technician I		0	@	\$	36.00	=	\$	_				
Project Administrator		24	@	\$	44.90	=	\$	1,077.60				
Clerical II		4	@	\$	21.20	=	\$	84.80				
Cicirca a					BTOTAL (1)			34,834.10				
					- ()			,				
TOTAL DIRECT LABOR COST			Subtotal (1)			=	\$	34,834.10				
DIRECT LABOR OVERHEAD	\$	34,834.10	wages x		0.70176	=	\$	24,445.18				
GENERAL & ADMIN. OVERHEAD	\$	34,834.10	wages x		1.27816	=	\$	44,523.55				
				SUI	BTOTAL (2)		\$	103,802.83				
PROFIT (P) AT 15% OF SUBTOTAL (2)		0.15	(P) x		103,802.83	=	\$	15,570.42				
COST OF MONEY @ 1.032% OF SUBTOTAL (1) 0.01032	X			\$	34,834.10	=	\$	359.49				
MILEAGE			Mi. @	\$	0.2441	=	\$	-				
ADDITIONAL COSTS:				Mea		=	\$	1,040.00				
					lging	=	\$	1,728.00				
				Air		=	\$	6,000.00				
				Ren	ıtal Car	=	\$	2,420.00				
OUTSIDE SERVICES @ COST	_					=	\$	173,500.00				
				TO	TAL		\$	304,420.74				
			*D		ED TOTAL			340,479.07				
			**K	II V 13.	ED IUIAL		Ф	340,473.07				

<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

# ATTACHMENT "B" SECTION 4 REHABILITATE AIRPORT LIGHTING SYSTEM CALIFORNIA REDWOOD COAST - HUMBOLDT COUNTY AIRPORT CONSTRUCTION OBSERVATION

	Proj.	Senior		Proj.	Proj.		Land	Tech.	Tech.	Project	Clerical
Work Description	Man.	Engr.	I	Engr. II	Engr. V	S	urveyor III	П	I	Administrator	П
•	(hrs)	(hrs)		(hrs)	(hrs)		(hrs)	(hrs)	(hrs)	(hrs)	(hrs)
1 Provide Full Time Inspection	0	0		0	650		0	0	0	0	0
2 Prepare and Submit Weekly Inspection Reports	0	0		20	60		0	0	0	0	20
3 Conduct Final Inspection	30	30		30	30		0	0	0	0	0
TOTAL HOURS	30	30		50	740		0	0	0	0	20
	Hours		R	ate \$/hr							
Project Manager	30	@	\$	102.00	=	\$	3,060.00				
Senior Engineer	30	@	\$	80.00	=	\$	2,400.00				
Project Engineer II	50	@	\$	44.25	=	\$	2,212.50				
Project Engineer V	740	@	\$	37.25	=	\$	27,565.00				
Land Surveyor III	0	@	\$	43.20	=	\$	-				
Technician II	0	@	\$	33.50	=	\$	-				
Technician I	0	@	\$	36.00	=	\$	-				
Project Administrator	0	@	\$	44.90	=	\$	-				
Clerical II	20	@	\$	21.20	=	\$	424.00				
			SUB	TOTAL (1)		\$	35,661.50				
TOTAL DIRECT LABOR COST		Subtotal (1)			=	\$	35,661.50				
DIRECT LABOR OVERHEAD \$	35,661.50	wages x		0.70176	=	\$	25,025.81				
GENERAL & ADMIN. OVERHEAD \$	35,661.50	wages x		1.27816	=	\$	45,581.10				
			SUB	TOTAL (2)		\$	106,268.41				
PROFIT (P) AT 15% OF SUBTOTAL (2)	0.15	(P) x	\$ 1	06,268.41	=	\$	15,940.26				
COST OF MONEY @ 1.032% OF SUBTOTAL (1) 0.01032 x	0.13	(1) X		35,661.50	=	\$	368.03				
MILEAGE	5550	Mi. @	\$	0.2441	=	\$	1,354.76				
ADDITIONAL COSTS:	3330	WII. @	Meal		=	\$	2,600.00				
ADDITIONAL COSTS.			Lodg		=	\$	6,240.00				
			Airfa		=	\$	3,000.00				
				al Car	=	\$	3,000.00				
OUTSIDE SERVICES @ COST			Kent	ai Cai	=	\$	-				
						Ψ					

TOTAL \*REVISED TOTAL

\$ 135,771.46 \$ 172,686.27

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<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