

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	<u>\$132,466.40</u>	<u>\$132,466.40</u>
SECTION 2			
	BIDDING SERVICES	\$55,801.90	
	LUMP SUM TOTAL	<u>\$55,801.90</u>	<u>\$55,801.90</u>
SECTION 3			
	CONSTRUCTION ADMINISTRATION		
	COSTS	\$320,219.51	
	**FIXED FEE	\$20,259.56	
	TOTAL	<u>\$340,479.07</u>	<u>\$340,479.07</u>
SECTION 4			
	CONSTRUCTION OBSERVATION		
	COSTS	\$151,945.49	
	**FIXED FEE	\$20,740.78	
	TOTAL	<u>\$172,686.27</u>	<u>\$172,686.27</u>
	TOTAL PROJECT ENGINEERING SERVICES		<u><u><u>\$701,433.63</u></u></u>

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

Work Description	Proj. Man. (hrs)	Senior Engr. (hrs)	Proj. Engr. II (hrs)	Proj. Engr. V (hrs)	Land Surveyor III (hrs)	Tech. II (hrs)	Tech. I (hrs)	Project Administrator (hrs)	Clerical II (hrs)
1 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
4 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

SUBTOTAL (1) \$ 13,144.30

TOTAL DIRECT LABOR COST			Subtotal (1)	=	\$ 13,144.30
DIRECT LABOR OVERHEAD	\$ 13,144.30	wages x	0.70176	=	\$ 9,224.14
GENERAL & ADMIN. OVERHEAD	\$ 13,144.30	wages x	1.27816	=	\$ 16,800.52

SUBTOTAL (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			\$ 13,144.30	=	\$ 135.65
MILEAGE		0 Mi. @	\$ 0.2441	=	\$ -
ADDITIONAL COSTS:			Meals	=	\$ 240.00
			Lodging	=	\$ 288.00
			Airfare	=	\$ 2,250.00
			Rental Car	=	\$ 220.00
OUTSIDE SERVICES @ COST				=	\$ -

TOTAL \$ 48,177.95

***REVISED TOTAL** \$ 61,784.20

*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

Work Description	Proj. Man. (hrs)	Senior Engr. (hrs)	Proj. Engr. II (hrs)	Proj. Engr. V (hrs)	Land Surveyor III (hrs)	Tech. II (hrs)	Tech. I (hrs)	Project Administrator (hrs)	Clerical II (hrs)
1 Prepare Summary of Tests	0	5	10	20	0	0	0	0	0
2 Assist Sponsor with Grant Closeout Forms	0	0	8	0	0	0	0	16	4
3 Update Part 139 Exhibits	0	0	10	0	0	0	20	0	0
4 Assist Sponsor with Updating AFD and Airport Master Record	0	0	10	0	0	0	20	0	0
5 Prepare Record Drawings	0	5	10	10	0	0	30	0	4
6 Prepare Final Engineers Report	0	5	10	40	0	0	0	0	4

TOTAL HOURS 0 15 58 70 0 0 70 16 12

	Hours		Rate \$/hr		
Project Manager	0	@	\$ 102.00	=	\$ -
Senior Engineer	15	@	\$ 80.00	=	\$ 1,200.00
Project Engineer II	58	@	\$ 44.25	=	\$ 2,566.50
Project Engineer V	70	@	\$ 37.25	=	\$ 2,607.50
Land Surveyor III	0	@	\$ 43.20	=	\$ -
Technician II	0	@	\$ 33.50	=	\$ -
Technician I	70	@	\$ 36.00	=	\$ 2,520.00
Project Administrator	16	@	\$ 44.90	=	\$ 718.40
Clerical II	12	@	\$ 21.20	=	\$ 254.40

SUBTOTAL (1) \$ 9,866.80

TOTAL DIRECT LABOR COST		Subtotal (1)	=	\$ 9,866.80
DIRECT LABOR OVERHEAD	\$ 9,866.80	wages x	0.70176	= \$ 6,924.13
GENERAL & ADMIN. OVERHEAD	\$ 9,866.80	wages x	1.27816	= \$ 12,611.35

SUBTOTAL (2) \$ 29,402.28

PROFIT (P) AT 15% OF SUBTOTAL (2)	0.15 (P) x	\$ 29,402.28	=	\$ 4,410.34
COST OF MONEY @ 1.032% OF SUBTOTAL (1) 0.01032 x		\$ 9,866.80	=	\$ 101.83
MILEAGE	0 Mi. @	\$ 0.2441	=	\$ -
ADDITIONAL COSTS:		Meals	=	\$ -
		Lodging	=	\$ -
		Airfare	=	\$ -
		Rental Car	=	\$ -
OUTSIDE SERVICES @ COST			=	\$ 11,010.00

TOTAL \$ **44,924.45**
***REVISED TOTAL** \$ **55,138.02**

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

Work Description	Proj. Man. (hrs)	Senior Engr. (hrs)	Proj. Engr. II (hrs)	Proj. Engr. V (hrs)	Land Surveyor III (hrs)	Tech. II (hrs)	Tech. I (hrs)	Project Administrator (hrs)	Clerical II (hrs)
1 Coordinate Const Contract Docs	0	2	4	0	0	0	0	8	2
2 Assist Sponsor with Registering for DIR number	0	2	8	0	0	0	0	0	0
3 Provide Sponsor Copies of Contract Docs	0	0	4	0	0	0	0	0	2
4 Review and Accept SPCD	0	2	4	0	0	0	0	0	0
5 Review Subcontractor Contracts	0	4	8	0	0	0	0	16	0
6 Review Submittals	0	4	24	0	0	0	0	0	0
7 Conduct PreCon Meeting	0	20	20	20	0	0	0	0	0
8 Identify Survey Control Points	0	4	8	8	16	0	0	0	0
9 Provide Technical Assistance	10	40	90	0	0	0	0	0	0
10 Conduct ATO Coordination Meetings	12	12	12	0	0	0	0	0	0
11 Construction Site Visits	0	80	120	0	0	0	0	0	0
12 Prepare Change Orders	0	4	16	0	0	0	0	0	0
13 Prepare/Confirm Monthly Pay Requests	0	8	24	0	0	0	0	0	0

TOTAL HOURS	22	182	342	28	16	0	0	24	4
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	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

SUBTOTAL (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

SUBTOTAL (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:		Meals	=	\$ 1,040.00
		Lodging	=	\$ 1,728.00
		Airfare	=	\$ 6,000.00
		Rental Car	=	\$ 2,420.00
OUTSIDE SERVICES @ COST			=	\$ 173,500.00

TOTAL \$ 304,420.74

***REVISED TOTAL** \$ 340,479.07

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

Work Description	Proj. Man. (hrs)	Senior Engr. (hrs)	Proj. Engr. II (hrs)	Proj. Engr. V (hrs)	Land Surveyor III (hrs)	Tech. II (hrs)	Tech. I (hrs)	Project Administrator (hrs)	Clerical II (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		Rate \$/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

SUBTOTAL (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

SUBTOTAL (2) \$ 106,268.41

PROFIT (P) AT 15% OF SUBTOTAL (2)	0.15 (P) x	\$ 106,268.41	=	\$ 15,940.26
COST OF MONEY @ 1.032% OF SUBTOTAL (1) 0.01032 x		\$ 35,661.50	=	\$ 368.03
MILEAGE	5550 Mi. @	\$ 0.2441	=	\$ 1,354.76
ADDITIONAL COSTS:		Meals	=	\$ 2,600.00
		Lodging	=	\$ 6,240.00
		Airfare	=	\$ 3,000.00
		Rental Car	=	\$ -
OUTSIDE SERVICES @ COST			=	\$ -

TOTAL **\$ 135,771.46**
***REVISED TOTAL** **\$ 172,686.27**

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