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MOS Incinerator Replacement Design-Bid-CA Fee Schedules
06/17/24
SUMMARY

Phase	Project						Planning &				NorthWind Architects	Eco Waste Solutions	Estimations	Subconsultant		Total
	Management	Civil	Structural	Mechanical	Electrical	Fire Protection	Environmental	Geotechnical	Survey	ODCs				Total	Markup	
1 #410 - Schematic Design (35%)	\$11,750.00	\$11,380.00	\$7,965.00	\$8,475.00	\$7,730.00	\$12,870.00	\$0.00	\$6,960.00	\$5,870.00	\$9,383.50	\$11,930.00	\$22,700.00		\$34,630.00	\$3,463.00	\$120,476.50
2 #420 - Design Development (65%)	\$11,500.00	\$23,800.00	\$10,405.00	\$23,910.00	\$19,265.00	\$11,395.00	\$0.00	\$420.00	\$0.00	\$1,454.00	\$12,570.00	\$73,240.00	\$4,494.00	\$90,304.00	\$9,030.40	\$201,483.40
3 #430 - Pre-Final Design (95%)	\$14,875.00	\$16,650.00	\$6,885.00	\$27,345.00	\$16,660.00	\$4,300.00	\$0.00	\$420.00	\$0.00	\$2,454.00	\$12,570.00	\$24,225.00	\$4,494.00	\$41,289.00	\$4,128.90	\$135,006.90
4 #440 - Construction Documents (100%)	\$5,220.00	\$7,200.00	\$3,440.00	\$6,855.00	\$7,090.00	\$4,005.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2,910.00	\$15,450.00		\$18,360.00	\$1,836.00	\$54,006.00
5 #750 - Permits	\$5,440.00	\$6,200.00	\$460.00	\$900.00	\$340.00	\$1,075.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2,580.00			\$2,580.00	\$258.00	\$17,253.00
6 #490 - Bid Phase Services	\$7,520.00	\$2,650.00	\$1,135.00	\$1,480.00	\$1,360.00	\$780.00	\$0.00	\$0.00	\$0.00	\$863.50	\$1,620.00			\$1,620.00	\$162.00	\$17,570.50
Subtotal	\$56,305.00	\$67,880.00	\$30,290.00	\$68,965.00	\$52,445.00	\$34,425.00	\$0.00	\$7,800.00	\$5,870.00	\$14,155.00	\$44,180.00	\$135,615.00	\$8,988.00	\$188,783.00	\$18,878.30	\$545,796.30
Est Tax																\$0.00
Total																\$545,796.30



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MOS Incinerator Replacement Design-Bid-CA Fee Schedules
06/17/24
Project Management

Phase								1	
#410 - Schematic Design (35%)	Principal	Senior PM I	Project Eng	Staff Eng	EIT	Senior Eng Tech	Lead Eng Tech	Hourly Subtotal	Cost
Billing Rate	\$250.00	\$215.00	\$175.00	\$150.00	\$125.00	\$145.00	\$130.00		
Task								0	\$0.00
Project Coordination 3hrs/wk	25							25	\$6,250.00
Project Meetings	6							6	\$1,500.00
Site Trip	8							8	\$2,000.00
Onsite Meetings, Public Presentations	8							8	\$2,000.00
Hourly Subtotal	47	0	0	0	0	0	0	47	
Phase Cost	\$11,750.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$11,750.00

Phase								2	
#420 - Design Development (65%)	Principal	Senior PM I	Project Eng	Staff Eng	EIT	Senior Eng Tech	Lead Eng Tech	Hourly Subtotal	Cost
Billing Rate	\$250.00	\$215.00	\$175.00	\$150.00	\$125.00	\$145.00	\$130.00		
Task								0	\$0.00
Project Coordination 3hrs/wk	24							24	\$6,000.00
Project Meetings	6							6	\$1,500.00
Onsite Meetings, Public Presentations	8							8	\$2,000.00
DEC Pre-Coordination	4							4	\$1,000.00
Ak FM Coordination	4							4	\$1,000.00
Hourly Subtotal	46	0	0	0	0	0	0	46	
Phase Cost	\$11,500.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$11,500.00

Phase								3	
#430 - Pre-Final Design (95%)	Principal	Senior PM I	Project Eng	Staff Eng	EIT	Senior Eng Tech	Lead Eng Tech	Hourly Subtotal	Cost
Billing Rate	\$250.00	\$215.00	\$175.00	\$150.00	\$125.00	\$145.00	\$130.00		
Task								0	\$0.00
Project Coordination 3hrs/wk	20	6						26	\$6,290.00
Division 0 & 1 Specifications	4	4						8	\$1,860.00
Project Meetings	6	3						9	\$2,145.00
95% Site Trip, Meeting with Owner	8	12						20	\$4,580.00
Hourly Subtotal	38	25	0	0	0	0	0	63	
Phase Cost	\$9,500.00	\$5,375.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$14,875.00

Phase								4	
#440 - Construction Documents (100%)	Principal	Senior PM I	Project Eng	Staff Eng	EIT	Senior Eng Tech	Lead Eng Tech	Hourly Subtotal	Cost
Billing Rate	\$250.00	\$215.00	\$175.00	\$150.00	\$125.00	\$145.00	\$130.00		
Task								0	\$0.00
Project Coordination 3hrs/wk	8	4						12	\$2,860.00
Update Front End Specifications	4	2						6	\$1,430.00
Project Meetings	2	2						4	\$930.00
Hourly Subtotal	14	8	0	0	0	0	0	22	
Phase Cost	\$3,500.00	\$1,720.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$5,220.00



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MOS Incinerator Replacement Design-Bid-CA Fee Schedules
06/17/24
Project Management

Phase								Project Manager	
5	Principal	Senior PM I	Project Eng	Staff Eng	EIT	Senior Eng Tech	Lead Eng Tech	Hourly Subtotal	Cost
#750 - Permits									
Billing Rate	\$250.00	\$215.00	\$175.00	\$150.00	\$125.00	\$145.00	\$130.00		
Task								0	\$0.00
AK Fire Marshal Permitting Coordination	4	8						12	\$2,720.00
DEC Coordination on Incinerator Emissions	4	8						12	\$2,720.00
Hourly Subtotal	8	16	0	0	0	0	0	24	
Phase Cost	\$2,000.00	\$3,440.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$5,440.00

Phase								Project Manager	
6	Principal	Senior PM I	Project Eng	Staff Eng	EIT	Senior Eng Tech	Lead Eng Tech	Hourly Subtotal	Cost
#490 - Bid Phase Services									
Billing Rate	\$250.00	\$215.00	\$175.00	\$150.00	\$125.00	\$145.00	\$130.00		
Task								0	\$0.00
Pre-Bid Mtg Onsite	1	12						13	\$2,830.00
Bidding Coordination; DCVR, Addendums	4	12						16	\$3,580.00
Bid Review	1	4						5	\$1,110.00
Hourly Subtotal	6	28	0	0	0	0	0	34	
Phase Cost	\$1,500.00	\$6,020.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$7,520.00

Project Management Hours	159	77	0	0	0	0	0	236	
Project Management Cost	\$39,750.00	\$16,555.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$56,305.00



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MOS Incinerator Replacement Design-Bid-CA Fee Schedules
06/17/24
Civil

Phase	1							Hourly	Cost
#410 - Schematic Design (35%)	Principal Civil Eng	Senior Civil Eng	Civil Eng	Civil EIT	Senior Eng Tech	Lead Eng Tech	Staff Eng Tech	Subtotal	
Billing Rate	\$250.00	\$210.00	\$150.00	\$125.00	\$145.00	\$130.00	\$115.00		
Task								0	\$0.00
Kick-Off Meeting, Review Previous Submittal	1		2			1		4	\$680.00
Civil Schematic Site Plan			8			8		16	\$2,240.00
Civil Schematic Narrative	1		6					7	\$1,150.00
Project Coordination			2					2	\$300.00
Cost Estimate Review	1		2					3	\$550.00
Design/Project Coordination			4			2		6	\$860.00
Site Visit	8							8	\$2,000.00
Public Meetings in Skagway	8							8	\$2,000.00
Respec Team Coordination			4					4	\$600.00
Respec QC/Civil Management	4							4	\$1,000.00
Hourly Subtotal	23	0	28	0	0	11	0	62	
Cost	\$5,750.00	\$0.00	\$4,200.00	\$0.00	\$0.00	\$1,430.00	\$0.00		\$11,380.00

Phase	2							Hourly	Cost
#420 - Design Development (65%)	Principal Civil Eng	Senior Civil Eng	Civil Eng	Civil EIT	Senior Eng Tech	Lead Eng Tech	Staff Eng Tech	Subtotal	
Billing Rate	\$250.00	\$210.00	\$150.00	\$125.00	\$145.00	\$130.00	\$115.00		
Task								0	\$0.00
Notes/Symbols/Legends			1			1		2	\$280.00
Survey Control Map			1			2		3	\$410.00
Demo Plan			1			2		3	\$410.00
Ash Disposal Expansion Site Grading Plan			8			8		16	\$2,240.00
Ash pond details/Study			8			8		16	\$2,240.00
Site Retaining Wall Design/Calcs			16			16		40	\$6,040.00
Site Utilities - Holding Tank			6			2		8	\$1,160.00
Site Drainage Plan			8					8	\$1,200.00
Site Cross Sections			8			6		14	\$1,980.00
Fence/Gate Plan and Details			8			8		16	\$2,240.00
Technical Specifications	1		8					9	\$1,450.00
Civil Quantities/Cost Estimate Review	1		4					5	\$850.00
Respec Team Coordination			4					4	\$600.00
Respec QC/Civil Management	6							6	\$1,500.00
Site Trip			8					8	\$1,200.00
Hourly Subtotal	8	0	89	0	0	53	0	158	
Cost	\$2,000.00	\$0.00	\$13,350.00	\$0.00	\$0.00	\$6,890.00	\$0.00		\$23,800.00

Phase	3							Hourly	Cost
#430 - Pre-Final Design (95%)	Principal Civil Eng	Senior Civil Eng	Civil Eng	Civil EIT	Senior Eng Tech	Lead Eng Tech	Staff Eng Tech	Subtotal	
Billing Rate	\$250.00	\$210.00	\$150.00	\$125.00	\$145.00	\$130.00	\$115.00		
Task								0	\$0.00
Notes/Symbols/Legends			1			1		2	\$280.00
Survey Control Map			1			2		3	\$410.00
Demo Plan			1			2		3	\$410.00
Ash Disposal Expansion Site Grading Plan			4			4		8	\$1,120.00
Ash pond details			4			8		12	\$1,640.00
Site Retaining Wall Design/Calcs			12			12		28	\$4,140.00
Site Utilities - Holding Tank			3			2		5	\$710.00
Site Drainage Plan			4					4	\$600.00
Site Cross Sections			4			6		10	\$1,380.00
Fence/Gate Plan and Details			4			8		12	\$1,640.00
Technical Specifications		2	4					6	\$1,020.00
Civil Quantities/Cost Estimate Review		2	4					6	\$1,020.00
Respec Team Coordination			4					4	\$600.00
Respec QC/Civil Management		8						8	\$1,680.00
Hourly Subtotal	0	12	50	0	0	45	0	111	
Cost	\$0.00	\$2,520.00	\$7,500.00	\$0.00	\$0.00	\$5,850.00	\$0.00		\$16,650.00



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MOS Incinerator Replacement Design-Bid-CA Fee Schedules
06/17/24
Civil

Phase	4							Hourly	Cost
#440 - Construction Documents (100%)	Principal Civil Eng	Senior Civil Eng	Civil Eng	Civil EIT	Senior Eng Tech	Lead Eng Tech	Staff Eng Tech	Subtotal	
Billing Rate	\$250.00	\$210.00	\$150.00	\$125.00	\$145.00	\$130.00	\$115.00		
Task								0	\$0.00
Correct up Plans per Owner/Respec			8			8		16	\$2,240.00
Correct up Specificaitons per Owner/Respec QC			12					12	\$1,800.00
Create Final PDF Submittal						6		6	\$780.00
Final Quantity and Cost Estimate			4			4		8	\$1,120.00
Respec QC/Civil Management		6						6	\$1,260.00
Hourly Subtotal	0	6	24	0	0	18	0	48	
Cost	\$0.00	\$1,260.00	\$3,600.00	\$0.00	\$0.00	\$2,340.00	\$0.00		\$7,200.00

Phase	5							Hourly	Cost
#750 - Permits	Principal Civil Eng	Senior Civil Eng	Civil Eng	Civil EIT	Senior Eng Tech	Lead Eng Tech	Staff Eng Tech	Subtotal	
Billing Rate	\$250.00	\$210.00	\$150.00	\$125.00	\$145.00	\$130.00	\$115.00		
Task								0	\$0.00
ADEC Sewer Permit Drawings		4	8		8	8		28	\$4,240.00
Respond to ADEC Review Comments		4	4			4		12	\$1,960.00
Hourly Subtotal	0	8	12	0	8	12	0	40	
Cost	\$0.00	\$1,680.00	\$1,800.00	\$0.00	\$1,160.00	\$1,560.00	\$0.00		\$6,200.00

Phase	6							Hourly	Cost
#490 - Bid Phase Services	Principal Civil Eng	Senior Civil Eng	Civil Eng	Civil EIT	Senior Eng Tech	Lead Eng Tech	Staff Eng Tech	Subtotal	
Billing Rate	\$250.00	\$210.00	\$150.00	\$125.00	\$145.00	\$130.00	\$115.00		
Task								0	\$0.00
Partipate in pre bid conference by phone		2						2	\$420.00
Respond to Bidders Questions			6					6	\$900.00
Prepare Addenda as Required			4			4		8	\$1,120.00
Bid Review		1						1	\$210.00
Hourly Subtotal	0	3	10	0	0	4	0	17	
Cost	\$0.00	\$630.00	\$1,500.00	\$0.00	\$0.00	\$520.00	\$0.00		\$2,650.00

Civil Hours	31	29	213	0	8	143	0	436	
Civil Cost	\$7,750.00	\$6,090.00	\$31,950.00	\$0.00	\$1,160.00	\$18,590.00	\$0.00		\$67,880.00



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MOS Incinerator Replacement Design-Bid-CA Fee Schedules
06/17/24
Structural

Phase	1								Hourly	
#410 - Schematic Design (35%)	Principal Struct. Eng	Senior Struct. Eng	Lead Struct. Eng	Structural Designer	Structural Designer, EIT	Senior Eng Tech	Lead Eng Tech	Staff Eng Tech	Subtotal	Cost
Billing Rate	\$250.00	\$215.00	\$190.00	\$135.00	\$125.00	\$145.00	\$130.00	\$115.00		
Task									0	\$0.00
Kickoff meeting and coordination		1	1	3			1		6	\$940.00
Review original plans and loads			1	6					7	\$1,000.00
Compare incenerator weights/IEBC evaluation				4					4	\$540.00
Schematic retrofits for supports and minor upgrades			1	6					7	\$1,000.00
Partial demo plan for access			2	2					4	\$650.00
Narrative and specifications			1	4		1			6	\$875.00
Review cost estimate - None			0	0					0	\$0.00
Drawings				1			8		9	\$1,175.00
QC			3						3	\$570.00
Review meeting and respond to comments				1					1	\$135.00
Site Visit				8					8	\$1,080.00
Hourly Subtotal	0	1	9	35	0	1	9	0	55	
Cost	\$0.00	\$215.00	\$1,710.00	\$4,725.00	\$0.00	\$145.00	\$1,170.00	\$0.00		\$7,965.00

Phase	2								Hourly	
#420 - Design Development (65%)	Principal Struct. Eng	Senior Struct. Eng	Lead Struct. Eng	Structural Designer	Structural Designer, EIT	Senior Eng Tech	Lead Eng Tech	Staff Eng Tech	Subtotal	Cost
Billing Rate	\$250.00	\$215.00	\$190.00	\$135.00	\$125.00	\$145.00	\$130.00	\$115.00		
Task									0	\$0.00
Phase coordination and correspondence		1	1	4			1		7	\$1,075.00
Design development for supports and upgrades			2	20					22	\$3,080.00
Develop demolition plan			1	8					9	\$1,270.00
Pallet Lift			1	4					5	\$730.00
Update narrative, develop specifications			1	6		1			8	\$1,145.00
Review cost estimate			1	1					2	\$325.00
Drawings				1			12		13	\$1,695.00
QC			4						4	\$760.00
Review meeting and respond to comments			1	1					2	\$325.00
Hourly Subtotal	0	1	12	45	0	1	13	0	72	
Cost	\$0.00	\$215.00	\$2,280.00	\$6,075.00	\$0.00	\$145.00	\$1,690.00	\$0.00		\$10,405.00

Phase	3								Hourly	
#430 - Pre-Final Design (95%)	Principal Struct. Eng	Senior Struct. Eng	Lead Struct. Eng	Structural Designer	Structural Designer, EIT	Senior Eng Tech	Lead Eng Tech	Staff Eng Tech	Subtotal	Cost
Billing Rate	\$250.00	\$215.00	\$190.00	\$135.00	\$125.00	\$145.00	\$130.00	\$115.00		
Task									0	\$0.00
Phase coordination and correspondence		1	1	2			1		5	\$805.00
Design final draft for supports and upgrades			1	8					9	\$1,270.00
Design final draft for demolition plan and rebuild			1	3					4	\$595.00
Pallet Lift			1	4		1			6	\$875.00
Final draft specifications			1	4		1			6	\$875.00
Review cost estimate				1					1	\$135.00
Drawings				1			10		11	\$1,435.00
QC			3						3	\$570.00
Review meeting and respond to comments			1	1					2	\$325.00
Hourly Subtotal	0	1	9	24	0	2	11	0	47	
Cost	\$0.00	\$215.00	\$1,710.00	\$3,240.00	\$0.00	\$290.00	\$1,430.00	\$0.00		\$6,885.00

Phase	4								Hourly	Structural	
#440 - Construction Documents (100%)	Principal Struct. Eng	Senior Struct. Eng	Lead Struct. Eng	Structural Designer	Structural Designer, EIT	Senior Eng Tech	Lead Eng Tech	Staff Eng Tech	Subtotal	Cost	
Billing Rate	\$250.00	\$215.00	\$190.00	\$135.00	\$125.00	\$145.00	\$130.00	\$115.00			
Task									0	\$0.00	
Phase coordination and correspondence		1	1	1			1		4	\$670.00	
Final Drawings				2			5		7	\$920.00	
Final Specifications				2		1			3	\$415.00	
Review cost estimate - None				0					0	\$0.00	
Calculation package			2	5					7	\$1,055.00	
QC			2						2	\$380.00	
Hourly Subtotal	0	1	5	10	0	1	6	0	23		
Cost	\$0.00	\$215.00	\$950.00	\$1,350.00	\$0.00	\$145.00	\$780.00	\$0.00		\$3,440.00	



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MOS Incinerator Replacement Design-Bid-CA Fee Schedules
06/17/24
Structural

Phase	5								Structural	
#750 - Permits	Principal Struct. Eng	Senior Struct. Eng	Lead Struct. Eng	Structural Designer	Structural Designer, EIT	Senior Eng Tech	Lead Eng Tech	Staff Eng Tech	Hourly Subtotal	Cost
Billing Rate	\$250.00	\$215.00	\$190.00	\$135.00	\$125.00	\$145.00	\$130.00	\$115.00		
Task									0	\$0.00
Respond to Fire Marshal review comments			1	2					3	\$460.00
Hourly Subtotal	0	0	1	2	0	0	0	0	3	
Cost	\$0.00	\$0.00	\$190.00	\$270.00	\$0.00	\$0.00	\$0.00	\$0.00		\$460.00

Phase	6								Structural	
#490 - Bid Phase Services	Principal Struct. Eng	Senior Struct. Eng	Lead Struct. Eng	Structural Designer	Structural Designer, EIT	Senior Eng Tech	Lead Eng Tech	Staff Eng Tech	Hourly Subtotal	Cost
Billing Rate	\$250.00	\$215.00	\$190.00	\$135.00	\$125.00	\$145.00	\$130.00	\$115.00		
Task									0	\$0.00
Bidder questions & addenda items			1	2					3	\$460.00
Conformed documents				2		1	2		5	\$675.00
Hourly Subtotal	0	0	1	4	0	1	2	0	8	
Cost	\$0.00	\$0.00	\$190.00	\$540.00	\$0.00	\$145.00	\$260.00	\$0.00		\$1,135.00

Structural Hours	0	4	37	120	0	6	41	0	208	
Structural Cost	\$0.00	\$860.00	\$7,030.00	\$16,200.00	\$0.00	\$870.00	\$5,330.00	\$0.00		\$30,290.00



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MOS Incinerator Replacement Design-Bid-CA Fee Schedules
06/17/24
Mechanical

Phase	1								Hourly	
#410 - Schematic Design (35%)	Principal Mech Eng	Lead Mech Eng	Project Mech Eng	Staff Mech Eng	Mech. EIT	Lead Eng Tech	Staff Eng Tech	Tech Editor	Subtotal	Cost
Billing Rate	\$250.00	\$190.00	\$165.00	\$150.00	\$125.00	\$130.00	\$115.00	\$135.00		
Task									0	\$0.00
Set Up Project, Review Past Submittal, Kickoff mtg	1		2		2		1		6	\$945.00
Code Review			4		2				6	\$910.00
Calculations, Preliminary Equipment Selection			7		4				11	\$1,655.00
Update Design Narrative - Mech			10		4				14	\$2,150.00
Project Coordination			3		2				5	\$745.00
Cost Estimate Review - none			0						0	\$0.00
QC	3								3	\$750.00
Site Visit			8						8	\$1,320.00
Hourly Subtotal	4	0	34	0	14	0	1	0	53	
Cost	\$1,000.00	\$0.00	\$5,610.00	\$0.00	\$1,750.00	\$0.00	\$115.00	\$0.00		\$8,475.00

Phase	2								Hourly	
#420 - Design Development (65%)	Principal Mech Eng	Lead Mech Eng	Project Mech Eng	Staff Mech Eng	Mech. EIT	Lead Eng Tech	Staff Eng Tech	Tech Editor	Subtotal	Cost
Billing Rate	\$250.00	\$190.00	\$165.00	\$150.00	\$125.00	\$130.00	\$115.00	\$135.00		
Task									0	\$0.00
Pick Up Review Comments/Setup Dwgs	1		2		1	1	3		8	\$1,180.00
Update Calculations			2		5				7	\$955.00
Update Equipment Selections			4		8				12	\$1,660.00
Design Plumbing Systems Dwgs			6		16		8		30	\$3,910.00
Design Ventilation/Exhaust Systems Dwgs			4		20		6		30	\$3,850.00
Replace Fuel tank and fuel system			2		6		2		10	\$1,310.00
Replace the Air Compressor System			2		6		2		10	\$1,310.00
Remote Monitoring Controls			4				1		5	\$775.00
Replace Dust Collection System			2		6		2		10	\$1,310.00
Heating System Replacement			4		16		8		28	\$3,580.00
Replace Potable Water System			2		4		1		7	\$945.00
Refurbish Non-potable Water System			4		2		1		7	\$1,025.00
Update Narrative, Spec TOC			2		3				5	\$705.00
Project Coordination					2		1		3	\$365.00
Review Cost Estimate			1						1	\$165.00
QC	3						1		4	\$865.00
Hourly Subtotal	4	0	41	0	95	1	36	0	177	
Cost	\$1,000.00	\$0.00	\$6,765.00	\$0.00	\$11,875.00	\$130.00	\$4,140.00	\$0.00		\$23,910.00

Phase	3								Hourly	
#430 - Pre-Final Design (95%)	Principal Mech Eng	Lead Mech Eng	Project Mech Eng	Staff Mech Eng	Mech. EIT	Lead Eng Tech	Staff Eng Tech	Tech Editor	Subtotal	Cost
Billing Rate	\$250.00	\$190.00	\$165.00	\$150.00	\$125.00	\$130.00	\$115.00	\$135.00		
Task									0	\$0.00
Pick Up Review Comments, update dwgs	1		1		1	1	1		5	\$785.00
Update Calculations			1		1				2	\$290.00
Update Equipment Selections, Schedules			6		4		2		12	\$1,720.00
Design Plumbing Systems Dwgs			8		10		6		24	\$3,260.00
Design Ventilation/Exhaust Systems Dwgs			4		18		10		32	\$4,060.00
Update Fuel System Design			2		6		2		10	\$1,310.00
Replace the Air Compressor System			2		6		2		10	\$1,310.00
Remote Monitoring Controls			4				2		6	\$890.00
Replace Dust Collection System			4		6		2		12	\$1,640.00
Heating System Replacement			6		12		10		28	\$3,640.00
Replace Potable Water System			4		6		4		14	\$1,870.00
Refurbish Non-potable Water System			6		4		1		11	\$1,605.00
Specifications			10		2			1	13	\$2,035.00
Project Coordination			2		2		1		5	\$695.00
Review Cost Estimate			1						1	\$165.00
Site Trip			8						8	\$1,320.00
QC	3								3	\$750.00
Hourly Subtotal	4	0	69	0	78	1	43	1	196	
Cost	\$1,000.00	\$0.00	\$11,385.00	\$0.00	\$9,750.00	\$130.00	\$4,945.00	\$135.00		\$27,345.00



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MOS Incinerator Replacement Design-Bid-CA Fee Schedules
06/17/24
Mechanical

Phase	4								Hourly	
#440 - Construction Documents (100%)	Principal Mech Eng	Lead Mech Eng	Project Mech Eng	Staff Mech Eng	Mech. EIT	Lead Eng Tech	Staff Eng Tech	Tech Editor	Subtotal	Cost
Billing Rate	\$250.00	\$190.00	\$165.00	\$150.00	\$125.00	\$130.00	\$115.00	\$135.00		
Task									0	\$0.00
Pick Up Review Comments			2		1		1		4	\$570.00
Update Design			8		10	1	10		29	\$3,850.00
Update Specificatinos			6						6	\$990.00
Project Coordination	1		2				1		4	\$695.00
QC	3								3	\$750.00
Hourly Subtotal	4	0	18	0	11	1	12	0	46	
Cost	\$1,000.00	\$0.00	\$2,970.00	\$0.00	\$1,375.00	\$130.00	\$1,380.00	\$0.00		\$6,855.00

Phase	5								Hourly	Mechanical
#750 - Permits	Principal Mech Eng	Lead Mech Eng	Project Mech Eng	Staff Mech Eng	Mech. EIT	Lead Eng Tech	Staff Eng Tech	Tech Editor	Subtotal	Cost
Billing Rate	\$250.00	\$190.00	\$165.00	\$150.00	\$125.00	\$130.00	\$115.00	\$135.00		
Task									0	\$0.00
Agency Review Coordination			4		1		1		6	\$900.00
Hourly Subtotal	0	0	4	0	1	0	1	0	6	
Cost	\$0.00	\$0.00	\$660.00	\$0.00	\$125.00	\$0.00	\$115.00	\$0.00		\$900.00

Phase	6								Hourly	
#490 - Bid Phase Services	Principal Mech Eng	Lead Mech Eng	Project Mech Eng	Staff Mech Eng	Mech. EIT	Lead Eng Tech	Staff Eng Tech	Tech Editor	Subtotal	Cost
Billing Rate	\$250.00	\$190.00	\$165.00	\$150.00	\$125.00	\$130.00	\$115.00	\$135.00		
Task									0	\$0.00
Pre-Bid Mtg			0						0	\$0.00
Bidding Coordination, Addendums	1		5		1		1		8	\$1,315.00
Bid Review			1						1	\$165.00
Hourly Subtotal	1	0	6	0	1	0	1	0	9	
Cost	\$250.00	\$0.00	\$990.00	\$0.00	\$125.00	\$0.00	\$115.00	\$0.00		\$1,480.00

Mechanical Hours	17	0	172	0	200	3	94	1	487	
Mechanical Cost	\$4,250.00	\$0.00	\$28,380.00	\$0.00	\$25,000.00	\$390.00	\$10,810.00	\$135.00		\$68,965.00



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MOS Incinerator Replacement Design-Bid-CA Fee Schedules
06/17/24
Electrical

Phase	1							Hourly	Cost
#410 - Schematic Design (35%)	Principal Elec. Eng	Project Elec. Eng	Staff Elec. Eng	Elec. EIT	Senior Eng Tech	Lead Eng Tech	Tech Editor	Subtotal	
Billing Rate	\$250.00	\$170.00	\$160.00	\$130.00	\$145.00	\$130.00	\$135.00		
Task								0	\$0.00
Kick-Off Meeting, Review Previous Submittal	1	2		1		1		5	\$850.00
Code Review		6						6	\$1,020.00
Design Analysis, Prelim Calculations		6		2				8	\$1,280.00
Design Narrative - Electrical Schematic Design		10						10	\$1,700.00
Design/Project Coordination		6						6	\$1,020.00
Cost Estimate Review - None		0						0	\$0.00
QA/QC	2							2	\$500.00
Site Visit		8						8	\$1,360.00
Hourly Subtotal	3	38	0	3	0	1	0	45	
Cost	\$750.00	\$6,460.00	\$0.00	\$390.00	\$0.00	\$130.00	\$0.00		\$7,730.00

Phase	2							Hourly	Cost
#420 - Design Development (65%)	Principal Elec. Eng	Project Elec. Eng	Staff Elec. Eng	Elec. EIT	Senior Eng Tech	Lead Eng Tech	Tech Editor	Subtotal	
Billing Rate	\$250.00	\$170.00	\$160.00	\$130.00	\$145.00	\$130.00	\$135.00		
Task								0	\$0.00
Review Comments/Resolutions, Setup Dwgs	1	3			1	3		8	\$1,295.00
Update Design Analysis, Calculations		12		4				16	\$2,560.00
Update Design Narrative - Electrical		2						2	\$340.00
As-Build and Demo Plans		6		6		8		20	\$2,840.00
Design Drawings, Schedules [PWR, LTG]		16		10		14		40	\$5,840.00
Design Low Voltage, Security, FA		8		4		4		16	\$2,400.00
Specifications [TOC]		4						4	\$680.00
Design Coordination and Meetings		6				2		8	\$1,280.00
QA/QC	4					2		6	\$1,260.00
Submittal		2				2		4	\$600.00
Review Cost Estimate		1						1	\$170.00
Hourly Subtotal	5	60	0	24	1	35	0	125	
Cost	\$1,250.00	\$10,200.00	\$0.00	\$3,120.00	\$145.00	\$4,550.00	\$0.00		\$19,265.00

Phase	3							Hourly	Cost
#430 - Pre-Final Design (95%)	Principal Elec. Eng	Project Elec. Eng	Staff Elec. Eng	Elec. EIT	Senior Eng Tech	Lead Eng Tech	Tech Editor	Subtotal	
Billing Rate	\$250.00	\$170.00	\$160.00	\$130.00	\$145.00	\$130.00	\$135.00		
Task								0	\$0.00
Review Comments and Resolutions		3			1	2		6	\$915.00
Update Design Analysis, Calculations		8						8	\$1,360.00
Update As-Build and Demo Plans		4				2		6	\$940.00
Update Design Drawings, Schedules [PWR, LTG]		16				12		28	\$4,280.00
Update Low Voltage Design, Security, FA		10		6		4		20	\$3,000.00
Update Specifications		8					1	9	\$1,495.00
Design Coordination and Meetings		6				2		8	\$1,280.00
QA/QC	4					2		6	\$1,260.00
Submittal		2				2		4	\$600.00
Review Cost Estimate		1						1	\$170.00
Cost	\$1,000.00	\$11,220.00	\$0.00	\$780.00	\$145.00	\$3,380.00	\$135.00		\$16,660.00



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MOS Incinerator Replacement Design-Bid-CA Fee Schedules
06/17/24
Electrical

Phase								Electrical	
	Principal Elec. Eng	Project Elec. Eng	Staff Elec. Eng	Elec. EIT	Senior Eng Tech	Lead Eng Tech	Tech Editor	Hourly Subtotal	Cost
#440 - Construction Documents (100%)									
Billing Rate	\$250.00	\$170.00	\$160.00	\$130.00	\$145.00	\$130.00	\$135.00		
Task								0	\$0.00
Review Comments and Resolutions	1	2			1	2		6	\$995.00
Update As-Build and Demo Plans		2				1		3	\$470.00
Update Design Drawings, Schedules [PWR, LTG]	2	10				6		18	\$2,980.00
Update Specifications		6					1	7	\$1,155.00
QA/QC	2					2		4	\$760.00
Submittal		2				3		5	\$730.00
Hourly Subtotal	5	22	0	0	1	14	1	43	
Cost	\$1,250.00	\$3,740.00	\$0.00	\$0.00	\$145.00	\$1,820.00	\$135.00		\$7,090.00

Phase								Electrical	
	Principal Elec. Eng	Project Elec. Eng	Staff Elec. Eng	Elec. EIT	Senior Eng Tech	Lead Eng Tech	Tech Editor	Hourly Subtotal	Cost
#750 - Permits									
Billing Rate	\$250.00	\$170.00	\$160.00	\$130.00	\$145.00	\$130.00	\$135.00		
Task								0	\$0.00
Permitting/Fire Marshall Comments & Resolutions		2						2	\$340.00
Hourly Subtotal	0	2	0	0	0	0	0	2	
Cost	\$0.00	\$340.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$340.00

Phase								Electrical	
	Principal Elec. Eng	Project Elec. Eng	Staff Elec. Eng	Elec. EIT	Senior Eng Tech	Lead Eng Tech	Tech Editor	Hourly Subtotal	Cost
#490 - Bid Phase Services									
Billing Rate	\$250.00	\$170.00	\$160.00	\$130.00	\$145.00	\$130.00	\$135.00		
Task								0	\$0.00
Pre-Bid Meeting		0						0	\$0.00
Bid Coordination; Addendums, Clarifications	1	4				2		7	\$1,190.00
Bid Review		1						1	\$170.00
Hourly Subtotal	1	5	0	0	0	2	0	8	
Cost	\$250.00	\$850.00	\$0.00	\$0.00	\$0.00	\$260.00	\$0.00		\$1,360.00

Electrical Hours	18	193	0	33	3	78	2	327	
Electrical Cost	\$4,500.00	\$32,810.00	\$0.00	\$4,290.00	\$435.00	\$10,140.00	\$270.00		\$52,445.00



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MOS Incinerator Replacement Design-Bid-CA Fee Schedules
06/17/24
Fire Protection

Phase	1								Hourly	Cost
#410 - Schematic Design (35%)	Principal FP Eng	Senior FP Eng	Lead FP Eng	Project FP Eng	Staff FP Eng	FP EIT	Lead Eng Tech	Staff Eng Tech	Subtotal	Cost
Billing Rate	\$250.00	\$220.00	\$190.00	\$175.00	\$140.00	\$125.00	\$130.00	\$115.00		
Task									0	\$0.00
Set Up Project, Review Past Submittal, Kickoff mtg	1			1		5	1		8	\$1,180.00
Code Review						5			5	\$625.00
Dry Sprinkler Renovation Design				4		8	1		13	\$1,830.00
Fire Alarm Interface	1			2		4	1		8	\$1,230.00
Design Narrative				3		8			11	\$1,525.00
Drawings				2		1	8		11	\$1,515.00
Review Meetings				2		2	1		5	\$730.00
Project Coordination				4		2	2		8	\$1,210.00
Cost Estimate Review - None				0					0	\$0.00
QC	3			1					4	\$925.00
Site Trip				12					12	\$2,100.00
Hourly Subtotal	5	0	0	31	0	35	14	0	85	
Cost	\$1,250.00	\$0.00	\$0.00	\$5,425.00	\$0.00	\$4,375.00	\$1,820.00	\$0.00		\$12,870.00

Phase	2								Hourly	Cost
#420 - Design Development (65%)	Principal FP Eng	Senior FP Eng	Lead FP Eng	Project FP Eng	Staff FP Eng	FP EIT	Lead Eng Tech	Staff Eng Tech	Subtotal	Cost
Billing Rate	\$250.00	\$220.00	\$190.00	\$175.00	\$140.00	\$125.00	\$130.00	\$115.00		
Task									0	\$0.00
Pick up Review Comments				3		2	2		7	\$1,035.00
Update Design Narrative				1		2			3	\$425.00
Update Calculations				4		10			14	\$1,950.00
Cost Estimate Review				2					2	\$350.00
Meetings				2		2			4	\$600.00
Finalize Dry System re-Design				6		10	4		20	\$2,820.00
Fire Alarm Coordination				3		6	3		12	\$1,665.00
Project Coordination				2					2	\$350.00
Project Specifications				3		8			11	\$1,525.00
QC	2			1					3	\$675.00
Hourly Subtotal	2	0	0	27	0	40	9	0	78	
Cost	\$500.00	\$0.00	\$0.00	\$4,725.00	\$0.00	\$5,000.00	\$1,170.00	\$0.00		\$11,395.00

Phase	3								Hourly	Cost
#430 - Pre-Final Design (95%)	Principal FP Eng	Senior FP Eng	Lead FP Eng	Project FP Eng	Staff FP Eng	FP EIT	Lead Eng Tech	Staff Eng Tech	Subtotal	Cost
Billing Rate	\$250.00	\$220.00	\$190.00	\$175.00	\$140.00	\$125.00	\$130.00	\$115.00		
Task									0	\$0.00
Pick up Review Comments				2		1	5		8	\$1,125.00
Update Design Narrative				1		2			3	\$425.00
QC	4			1					5	\$1,175.00
Cost Estimate Review	1								1	\$250.00
Project Specifications				1		1			2	\$300.00
Review Cost Estimate				1					1	\$175.00
Update Calculations				2		4			6	\$850.00
Hourly Subtotal	5	0	0	8	0	8	5	0	26	
Cost	\$1,250.00	\$0.00	\$0.00	\$1,400.00	\$0.00	\$1,000.00	\$650.00	\$0.00		\$4,300.00



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MOS Incinerator Replacement Design-Bid-CA Fee Schedules
06/17/24
Fire Protection

Phase									Fire Protection	
#440 - Construction Documents (100%)	Principal FP Eng	Senior FP Eng	Lead FP Eng	Project FP Eng	Staff FP Eng	FP EIT	Lead Eng Tech	Staff Eng Tech	Hourly Subtotal	Cost
Phase	4									
Billing Rate	\$250.00	\$220.00	\$190.00	\$175.00	\$140.00	\$125.00	\$130.00	\$115.00		
Task									0	\$0.00
Phase coordination and correspondence				1		1			2	\$300.00
Final Drawings				2		4	6		12	\$1,630.00
Final Specifications				2		5			7	\$975.00
Update Calculations				2		2			4	\$600.00
QC	2								2	\$500.00
Hourly Subtotal	2	0	0	7	0	12	6	0	27	
Cost	\$500.00	\$0.00	\$0.00	\$1,225.00	\$0.00	\$1,500.00	\$780.00	\$0.00		\$4,005.00

Phase									Hourly Subtotal		Cost
#750 - Permits	Principal FP Eng	Senior FP Eng	Lead FP Eng	Project FP Eng	Staff FP Eng	FP EIT	Lead Eng Tech	Staff Eng Tech	Hourly Subtotal	Cost	
Phase	5										
Billing Rate	\$250.00	\$220.00	\$190.00	\$175.00	\$140.00	\$125.00	\$130.00	\$115.00			
Task									0	\$0.00	
AK SFMO Coordination				4		3			7	\$1,075.00	
									0	\$0.00	
Hourly Subtotal	0	0	0	4	0	3	0	0	7		
Cost	\$0.00	\$0.00	\$0.00	\$700.00	\$0.00	\$375.00	\$0.00	\$0.00		\$1,075.00	

Phase									Hourly Subtotal		Cost
#490 - Bid Phase Services	Principal FP Eng	Senior FP Eng	Lead FP Eng	Project FP Eng	Staff FP Eng	FP EIT	Lead Eng Tech	Staff Eng Tech	Hourly Subtotal	Cost	
Phase	6										
Billing Rate	\$250.00	\$220.00	\$190.00	\$175.00	\$140.00	\$125.00	\$130.00	\$115.00			
Task									0	\$0.00	
Pre-Bid Mtg				0					0	\$0.00	
Bidding Coordination, Addendums				2		1	1		4	\$605.00	
Bid Review				1					1	\$175.00	
Hourly Subtotal	0	0	0	3	0	1	1	0	5		
Cost	\$0.00	\$0.00	\$0.00	\$525.00	\$0.00	\$125.00	\$130.00	\$0.00		\$780.00	

Fire Protection Hours	14	0	0	80	0	99	35	0	228	
Fire Protection Cost	\$3,500.00	\$0.00	\$0.00	\$14,000.00	\$0.00	\$12,375.00	\$4,550.00	\$0.00		\$34,425.00



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MOS Incinerator Replacement Design-Bid-CA Fee Schedules
06/17/24
Geotechnical

Phase	1								Hourly	
#410 - Schematic Design (35%)	Principal Geotech Eng	Senior Geotech Eng	Lab Technician	Senior BIM Tech	Senior Eng Tech	Lead Eng Tech	Staff Eng Tech	Admin Staff	Subtotal	Cost
Billing Rate	\$250.00	\$210.00	\$125.00	\$170.00	\$145.00	\$130.00	\$115.00	\$100.00		
Task									0	\$0.00
Kickoff mtg, setup project		2			1				3	\$565.00
Test Pit Excavation Coordination		3							3	\$630.00
Site Trip Oversee Digging		12							12	\$2,520.00
Report Draft		8			4				12	\$2,260.00
Final Report		4			1				5	\$985.00
QC									0	\$0.00
Hourly Subtotal	0	29	0	0	6	0	0	0	35	
Cost	\$0.00	\$6,090.00	\$0.00	\$0.00	\$870.00	\$0.00	\$0.00	\$0.00		\$6,960.00

Phase	2								Hourly	
#420 - Design Development (65%)	Principal Geotech Eng	Senior Geotech Eng	Lab Technician	Senior BIM Tech	Senior Eng Tech	Lead Eng Tech	Staff Eng Tech	Admin Staff	Subtotal	Cost
Billing Rate	\$250.00	\$210.00	\$125.00	\$170.00	\$145.00	\$130.00	\$115.00	\$100.00		
Task									0	\$0.00
Project Coordination		2							2	\$420.00
Hourly Subtotal	0	2	0	0	0	0	0	0	2	
Cost	\$0.00	\$420.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$420.00

Phase	3								Hourly	
#430 - Pre-Final Design (95%)	Principal Geotech Eng	Senior Geotech Eng	Lab Technician	Senior BIM Tech	Senior Eng Tech	Lead Eng Tech	Staff Eng Tech	Admin Staff	Subtotal	Cost
Billing Rate	\$250.00	\$210.00	\$125.00	\$170.00	\$145.00	\$130.00	\$115.00	\$100.00		
Task									0	\$0.00
Project Coordination		2							2	\$420.00
Hourly Subtotal	0	2	0	0	0	0	0	0	2	
Cost	\$0.00	\$420.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$420.00



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MOS Incinerator Replacement Design-Bid-CA Fee Schedules
06/17/24
Geotechnical

Phase									Geotech	
#440 - Construction Documents (100%)	Principal Geotech Eng	Senior Geotech Eng	Lab Technician	Senior BIM Tech	Senior Eng Tech	Lead Eng Tech	Staff Eng Tech	Admin Staff	Hourly Subtotal	Cost
Phase	4									
Billing Rate	\$250.00	\$210.00	\$125.00	\$170.00	\$145.00	\$130.00	\$115.00	\$100.00		
Task									0	\$0.00
Hourly Subtotal	0	0	0	0	0	0	0	0	0	
Cost	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00

Phase									Hourly Subtotal	Cost
#750 - Permits	Principal Geotech Eng	Senior Geotech Eng	Lab Technician	Senior BIM Tech	Senior Eng Tech	Lead Eng Tech	Staff Eng Tech	Admin Staff	Hourly Subtotal	Cost
Phase	5									
Billing Rate	\$250.00	\$210.00	\$125.00	\$170.00	\$145.00	\$130.00	\$115.00	\$100.00		
Task									0	\$0.00
Hourly Subtotal	0	0	0	0	0	0	0	0	0	
Cost	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00

Phase									Hourly Subtotal	Cost
#490 - Bid Phase Services	Principal Geotech Eng	Senior Geotech Eng	Lab Technician	Senior BIM Tech	Senior Eng Tech	Lead Eng Tech	Staff Eng Tech	Admin Staff	Hourly Subtotal	Cost
Phase	6									
Billing Rate	\$250.00	\$210.00	\$125.00	\$170.00	\$145.00	\$130.00	\$115.00	\$100.00		
Task									0	\$0.00
Hourly Subtotal	0	0	0	0	0	0	0	0	0	
Cost	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00

Geotechnical Hours	0	33	0	0	6	0	0	0	39	
Geotechnical Cost	\$0.00	\$6,930.00	\$0.00	\$0.00	\$870.00	\$0.00	\$0.00	\$0.00		\$7,800.00



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MOS Incinerator Replacement Design-Bid-CA Fee Schedules
06/17/24
Survey

Phase 1											
#410 - Schematic Design (35%)	Principal PLS	Senior PLS	Lead PLS	Project PLS	Land Surveyor Party Chief*	Land Surveyor, LSIT*	Survey Instrument Person II*	Survey Instrument Person I*	Two-Person Crew	Hourly Subtotal	Cost
Billing Rate	\$250.00	\$210.00	\$185.00	\$165.00	\$145.00	\$135.00	\$120.00	\$120.00	\$255.00		
Task										0	\$0.00
Review Existing Record Info/Survey Work						4				4	\$540.00
Survey Team Mob/Demob to Skagway							4			4	\$480.00
Field Survey of Incinerator Site							16			16	\$1,920.00
Office Reduction/Mapping Preparation						18				18	\$2,430.00
QC	2									2	\$500.00
Hourly Subtotal	2	0	0	0	0	22	20	0	0	44	
Cost	\$500.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2,970.00	\$2,400.00	\$0.00	\$0.00		\$5,870.00

Phase 2											
#420 - Design Development (65%)	Principal PLS	Senior PLS	Lead PLS	Project PLS	Land Surveyor Party Chief*	Land Surveyor, LSIT*	Survey Instrument Person II*	Survey Instrument Person I*	Two-Person Crew	Hourly Subtotal	Cost
Billing Rate	\$250.00	\$210.00	\$185.00	\$165.00	\$145.00	\$135.00	\$120.00	\$120.00	\$255.00		
Task										0	\$0.00
Hourly Subtotal	0	0	0	0	0	0	0	0	0	0	
Cost	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00

Phase 3											
#430 - Pre-Final Design (95%)	Principal PLS	Senior PLS	Lead PLS	Project PLS	Land Surveyor Party Chief*	Land Surveyor, LSIT*	Survey Instrument Person II*	Survey Instrument Person I*	Two-Person Crew	Hourly Subtotal	Cost
Billing Rate	\$250.00	\$210.00	\$185.00	\$165.00	\$145.00	\$135.00	\$120.00	\$120.00	\$255.00		
Task										0	\$0.00
Hourly Subtotal	0	0	0	0	0	0	0	0	0	0	
Cost	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00

Phase 4											
#440 - Construction Documents (100%)	Principal PLS	Senior PLS	Lead PLS	Project PLS	Land Surveyor Party Chief*	Land Surveyor, LSIT*	Survey Instrument Person II*	Survey Instrument Person I*	Two-Person Crew	Hourly Subtotal	Cost
Billing Rate	\$250.00	\$210.00	\$185.00	\$165.00	\$145.00	\$135.00	\$120.00	\$120.00	\$255.00		
Task										0	\$0.00
Hourly Subtotal	0	0	0	0	0	0	0	0	0	0	
Cost	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00

Phase 5											
#750 - Permits	Principal PLS	Senior PLS	Lead PLS	Project PLS	Land Surveyor Party Chief*	Land Surveyor, LSIT*	Survey Instrument Person II*	Survey Instrument Person I*	Two-Person Crew	Hourly Subtotal	Cost
Billing Rate	\$250.00	\$210.00	\$185.00	\$165.00	\$145.00	\$135.00	\$120.00	\$120.00	\$255.00		
Task										0	\$0.00
Hourly Subtotal	0	0	0	0	0	0	0	0	0	0	
Cost	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00

Phase 6											
#490 - Bid Phase Services	Principal PLS	Senior PLS	Lead PLS	Project PLS	Land Surveyor Party Chief*	Land Surveyor, LSIT*	Survey Instrument Person II*	Survey Instrument Person I*	Two-Person Crew	Hourly Subtotal	Cost
Billing Rate	\$250.00	\$210.00	\$185.00	\$165.00	\$145.00	\$135.00	\$120.00	\$120.00	\$255.00		
Task										0	\$0.00
Hourly Subtotal	0	0	0	0	0	0	0	0	0	0	
Cost	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00

Survey Hours	2	0	0	0	0	22	20	0	0	44	
Survey Cost	\$500.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2,970.00	\$2,400.00	\$0.00	\$0.00		\$5,870.00



The prices quoted are valid and in effect for 90 days. After 90 days, prices are subject to change in accordance with RESPEC's commercial practices.

Phase 1

#410 - Schematic Design (35%)

Billing Rate	Unit	Unit Cost	Project					Planning &					Qty	Cost
			Management	Civil	Structural	Mechanical	Electrical	Fire Protection	Environmental	Geotechnical	Survey			
Copies/Prints/Scans (Letter)	ea	\$0.20											0	\$0.00
Copies/Prints/Scans (Full Size Drawing)	ea	\$1.00											0	\$0.00
Airfare Anc-JNU	ea	\$400.00							1				1	\$400.00
Airfare JNU-SGY	ea	\$400.00	1	1	1	1	1	1			1	2	9	\$3,600.00
Rentals Excavator/Operator	day	\$3,000.00									1		1	\$3,000.00
Survey GPS Rental	day	\$154.50											0	\$0.00
Materials Lab	day	\$400.00									1		1	\$400.00
Shipping	ea	\$25.00											0	\$0.00
Parking	day	\$16.00	2	2	1	1	1	1			1	2	11	\$176.00
Hotel	day	\$200.00	1	1							1	2	5	\$1,000.00
Mileage	mile	\$0.670											0	\$0.00
Per Diem	man day	\$95.00	1	1	0.5	0.5	0.5	0.5			0.5	4	8.5	\$807.50
Cost			\$727.00	\$727.00	\$463.50	\$463.50	\$463.50	\$863.50	\$0.00	\$4,063.50	\$1,612.00			\$9,383.50

Phase 2

#420 - Design Development (65%)

Billing Rate	Unit	Unit Cost	Project					Planning &					Qty	Cost
			Management	Civil	Structural	Mechanical	Electrical	Fire Protection	Environmental	Geotechnical	Survey			
Copies/Prints/Scans (Letter)	ea	\$0.20											0	\$0.00
Copies/Prints/Scans (Full Size)	ea	\$1.00											0	\$0.00
Airfare Anc-JNU	ea	\$400.00											0	\$0.00
Airfare JNU-SGY	ea	\$400.00	1	1									2	\$800.00
Rentals Excavator/Operator	day	\$3,000.00											0	\$0.00
Survey GPS Rental	day	\$154.50											0	\$0.00
Materials Lab	day	\$400.00											0	\$0.00
Shipping	ea	\$25.00											0	\$0.00
Parking	day	\$16.00	2	2									4	\$64.00
Hotel	day	\$200.00	1	1									2	\$400.00
Mileage	mile	\$0.670											0	\$0.00
Per Diem	man day	\$95.00	1	1									2	\$190.00
Cost			\$727.00	\$727.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$1,454.00

Phase 3

#430 - Pre-Final Design (95%)

Billing Rate	Unit	Unit Cost	Project					Planning &					Qty	Cost
			Management	Civil	Structural	Mechanical	Electrical	Fire Protection	Environmental	Geotechnical	Survey			
Copies/Prints/Scans (Letter)	ea	\$0.20											0	\$0.00
Copies/Prints/Scans (Full Size)	ea	\$1.00											0	\$0.00
Airfare Anc-JNU	ea	\$400.00	1										1	\$400.00
Airfare JNU-SGY	ea	\$400.00	2			1	1						4	\$1,600.00
Rentals Excavator/Operator	day	\$3,000.00											0	\$0.00
Survey GPS Rental	day	\$154.50											0	\$0.00
Materials Lab	day	\$400.00											0	\$0.00
Shipping	ea	\$25.00											0	\$0.00
Parking	day	\$16.00	2			1	1						4	\$64.00
Hotel	day	\$200.00	1										1	\$200.00
Mileage	mile	\$0.670											0	\$0.00
Per Diem	man day	\$95.00	1			0.5	0.5						2	\$190.00
Cost			\$1,527.00	\$0.00	\$0.00	\$463.50	\$463.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$2,454.00

Phase 4

#440 - Construction Documents (100%)

Billing Rate	Unit	Unit Cost	Project					Planning &					Qty	Cost
			Management	Civil	Structural	Mechanical	Electrical	Fire Protection	Environmental	Geotechnical	Survey			
Copies/Prints/Scans (Letter)	ea	\$0.20											0	\$0.00
Copies/Prints/Scans (Full Size)	ea	\$1.00											0	\$0.00
Airfare Anc-JNU	ea	\$400.00											0	\$0.00
Airfare JNU-SGY	ea	\$400.00											0	\$0.00
Rentals Excavator/Operator	day	\$3,000.00											0	\$0.00
Survey GPS Rental	day	\$154.50											0	\$0.00
Materials Lab	day	\$400.00											0	\$0.00
Shipping	ea	\$25.00											0	\$0.00
Parking	day	\$16.00											0	\$0.00
Hotel	day	\$200.00											0	\$0.00
Mileage	mile	\$0.670											0	\$0.00
Per Diem	man day	\$95.00											0	\$0.00
Cost			\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00



The prices quoted are valid and in effect for 90 days. After 90 days, prices are subject to change in accordance with RESPEC's commercial practices.

Phase	5	ODC
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#750 - Permits

Billing Rate	Unit	Unit Cost	Project							Planning &			Qty	Cost
			Management	Civil	Structural	Mechanical	Electrical	Fire Protection	Environmental	Geotechnical	Survey			
Copies/Prints/Scans (Letter)	ea	\$0.20										0	\$0.00	
Copies/Prints/Scans (Full Size)	ea	\$1.00										0	\$0.00	
Airfare Anc-JNU	ea	\$400.00										0	\$0.00	
Airfare JNU-SGY	ea	\$400.00										0	\$0.00	
Rentals Excavator/Operator	day	\$3,000.00										0	\$0.00	
Survey GPS Rental	day	\$154.50										0	\$0.00	
Materials Lab	day	\$400.00										0	\$0.00	
Shipping	ea	\$25.00										0	\$0.00	
Parking	day	\$16.00										0	\$0.00	
Hotel	day	\$200.00										0	\$0.00	
Mileage	mile	\$0.670										0	\$0.00	
Per Diem	man day	\$95.00										0	\$0.00	
Cost			\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0	\$0.00	

Phase	6
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#490 - Bid Phase Services

Billing Rate	Unit	Unit Cost	Project							Planning &			Qty	Cost
			Management	Civil	Structural	Mechanical	Electrical	Fire Protection	Environmental	Geotechnical	Survey			
Copies/Prints/Scans (Letter)	ea	\$0.20										0	\$0.00	
Copies/Prints/Scans (Full Size)	ea	\$1.00										0	\$0.00	
Airfare Anc-JNU	ea	\$400.00	1									1	\$400.00	
Airfare JNU-SGY	ea	\$400.00	1									1	\$400.00	
Rentals Excavator/Operator	day	\$3,000.00										0	\$0.00	
Survey GPS Rental	day	\$154.50										0	\$0.00	
Materials Lab	day	\$400.00										0	\$0.00	
Shipping	ea	\$25.00										0	\$0.00	
Parking	day	\$16.00	1									1	\$16.00	
Hotel	day	\$200.00										0	\$0.00	
Mileage	mile	\$0.670										0	\$0.00	
Per Diem	man day	\$95.00	0.5									0.5	\$47.50	
Cost			\$863.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.5	\$863.50	



Technical Services Proposal

Re: Municipality of Skagway Incinerator Replacement

**For PDC ENGINEERS
2700 Gambell St. Suite 500
Anchorage, AK 99503**

**Proposal No: PDC-TS002
April 08, 2024**

**Eco Burn Inc.
Eco Waste Solutions (“EWS”)**

**300-5500 North Service Road
Burlington, ON, Canada L7L 6W6
Tel: 905-634-7022**

**Kim Dockstader
VP Engineering
kdockstader@ecosolutions.com**

1. Our Company

Eco Waste Solutions (EWS) is a uniquely capable company in the waste conversion space. For the past 27 years we have taken more than 80 thermal waste treatment installations, in 14 countries, from concept, to build, to implementation.

We custom-engineer and manufacture a broad range of thermal treatment equipment. We have a track record of delivering practical innovative designs that offer the highest standards in environmental integrity and product quality.

We know how to organize around a project to meet the toughest expectations. Running complex projects for customers like the US Army, Air Force, NATO, Swedish, Canadian and United Arab Emirates Armed Forces takes a team of sophisticated professionals

2. Our People

There are many companies with waste management experts but there are none that can match Eco Waste's depth in thermal waste conversion technologies. From Engineers with multiple patents and years of experience in waste and waste conversion, to field technicians who can spot a mechanical problem from a mile away and help you resolve it. Eco Waste brings together a diverse group of experts dedicated to solving waste problems.



Eco Waste Solutions Team
(2018)

See Appendix A: Team Biographies

3. Our Capabilities





4. Our Approach

- ❖ Demonstrate integrity, professionalism, accountability
- ❖ Focus on continuous improvement
- ❖ Strive for effective, efficient, two-way communication
- ❖ Review and monitor performance

We believe in what we do - and we are proud of our reliable practical designs that have diverted Millions of tonnes of waste away from landfills!

5. Our Services

Project Planning	
<ul style="list-style-type: none"> ✓ Waste Characterizations and Feedstock Calculations ✓ Capacity Requirements ✓ Preliminary Engineering & Design ✓ Heat Recovery & Air Pollution Control Specification, Selection & Integration ✓ Upfront Engineering/Costing/Economic/Engineering Studies ✓ Regulatory Technical Assistance 	
Engineering & Design	
<ul style="list-style-type: none"> ✓ Detailed Engineering ✓ Combustion Modelling ✓ Structural – Design Review, Finite Element Analysis ✓ 3D and 2D Drafting ✓ Architectural and Construction Engineering Support 	
Manufacturing & Production	
<ul style="list-style-type: none"> ✓ Production Management – Schedules, Budget, Quality ✓ Procurement & Fabrication Management ✓ Quality Assurance, Quality Control ✓ Assembly, Testing, Shakedown 	
Operations Support	
<ul style="list-style-type: none"> ✓ Installation Planning & Supervision ✓ Commissioning & Start-Up ✓ Training ✓ Technical Support ✓ Equipment Repairs & Retrofit ✓ Electrical and Controls Updates/Upgrades ✓ Maintenance and Operational Optimization ✓ Staff Development/Training/SOPs ✓ Air Test Planning & Support, Regulatory Compliance ✓ Maintenance & Safety Programs ✓ Maintenance Support Contracts 	
Logistics - Supply and Support	
<ul style="list-style-type: none"> ✓ Technical Data Packages ✓ Technical Support ✓ Technical Manuals ✓ Training Programs and Materials ✓ Spare Parts Management ✓ Maintenance Planning 	
Research & Development	
<ul style="list-style-type: none"> ✓ New designs, processes, and technical innovations ✓ Detailed Engineering ✓ Prototyping, Testing and Test Support ✓ Value Engineering 	



6. Proposed Scope of Work

The following table summarizes EWS' proposed scope of work to complete the design documents for each phase of the 35-65-95% design process.

Table 1: Scope of Work

	Design Documents Process			
Scope Area	35%: refresh/refining of previous design concept	65%: development of key elements of project	95%: final design with firm details	100% - Production Approval
Engineering and Design	Review of replacement incinerator requirements/criteria, battery limits and scope of project.	Finalize expectations of project. Detailed specifications and value engineering. Control communications engineering. Input to PDC's planning and integration.	Final selection of major components, electrical and controls, materials of construction.	The design will be finalized to ensure that there are no changes related to external factors (customer or site related changes) or internal factors (supply chain changes or material shortages)
Cost	Baseline cost estimate	Updated pricing if required, including shipping costs.	Firm cost proposal based on confirmed supply and service pricing and required bid validity dates, including itemized spare parts pricing	Pricing carries over from 95% unless outside of bid validity window and updated quotes are required.
Timeline	Baseline for timing of activities and deliverables	Detailed timing for production including lead times for procurement and fabrication, preliminary packaging plan for shipment, shipping time/route, site installation timing and manpower.	Final schedule for production, shipping, and installation support/field services.	Confirmation of timing of procurement, production, shipping etc.
Deliverables	Baseline Schedule for Engineering of major project elements and high-level production schedule. General Arrangement defining equipment footprint, plan, and elevation views.	Schedule for Engineering and production detailed by component/material. Preliminary installation and logistics plan.	Final: <ul style="list-style-type: none"> - Schedule - GA drawings - P&ID for incinerator and related equipment - Electrical panel drawings - Electrical field requirements 	Facility/Operators' Manual OEM component manuals Spare parts lists Maintenance schedule Maintenance instructions

7. Fees

Table 2 – 35% Design Documents Price Breakdown

TASK	DESCRIPTION	TOTAL PRICE
1.0	Review of requirements with PDC and/or Owner	
1.1	Baseline Schedule (Gantt chart) for engineering of major project elements with high-level production schedule.	
1.2	Updated budgetary costing for incinerator, roof lifters, and control system.	
1.3	Budgetary costs for replacement of integrated material handling components - conveyors and hydraulic ash remover.	
1.4	General Arrangement defining equipment footprint (plan and elevation views), with expected weights for incinerator with roof lifters.	
	TOTAL FOR 1.0 TO 1.4	\$5,860.00
1.5	Preliminary Site Review/Preparation, Site Visit (1 Engineer, 1 CAD Designer), 3 days on-site, plus travel time.	\$16,840.00
	TOTAL FOR 1.0 TO 1.5	\$22,700.00

Table 3 – 65% Design Documents Price Breakdown

TASK	DESCRIPTION	TOTAL PRICE
2.0	Value Engineering – cost-benefit analysis on refractory options	
2.1	Detailed Engineering – combustion modelling/mass balance calculations to confirm required dimensions, selection of materials, blowers, burners, and other major components.	
2.2	Electrical Engineering - Options for control communication protocols and integration with remote monitoring systems. Required hardware definition. Preliminary Electrical field wiring requirements	
2.3	Detailed schedule for production including lead times for procurement and fabrication, preliminary packaging plan for shipment, shipping time/route, site installation timing and manpower	
2.4	Preliminary Equipment Data Sheet Detailed Equipment Specifications	
2.5	Input to PDC's planning of waste storage/staging, ash production/storage, parts planning and storage, fuel storage, power requirements, air make-up requirements. In the form of Preliminary Process Flow Diagram.	
2.6	Input to PDC to confirm fit in building, access/egress, maintenance allowances etc. Input to PDC's planning of any	



	platforms, catwalks, barriers, or gates. Input to PDC's routing of fuel piping and electrical, operator control room.	
2.7	Updated detailed pricing including shipping costs	
	TOTAL FOR 2.0 TO 2.6	\$56,400
2.8	Site Review/Preparation, Site Visit (1 Engineer, 1 CAD Designer), 3 days on-site, plus travel time.	\$16,840.00
	TOTAL FOR 2.0 TO 2.8	\$73,240.00

Other scope that may be required that is not included in the above cost estimate:

- Integrate any additional equipment required to meet permitting requirements. Added features such as Continuous Emission Monitoring Systems (CEMS), Fuel Storage Tank, or other features will be determined on an as-needed basis. Charged out per rate tables (tables 5 and 6).

Table 4 – 95% Design Documents Price Breakdown

TASK	DESCRIPTION	TOTAL PRICE
3.0	Final selection of major components, electrical and controls, materials of construction.	
3.1	Firm cost proposal based on confirmed supply and service pricing and required bid validity dates, including itemized spare parts pricing	
3.2	Detailed Production Schedule	
3.3	Final Drawings/Documents: - GA drawings - P&ID for incinerator and related equipment - Electrical panel drawings - Electrical field wiring requirements - Equipment Data Sheet	
	TOTAL FOR 3.0 TO 3.3	\$24,225.00
	Note: Post 95% site visit – requirement TBD.	

Table 5 – 100% Design Documents Price Breakdown

This phase assumes that EWS is issued a Notice to Proceed with Production purchase order to initiate the manufacturing of the replacement incinerator.

TASK	DESCRIPTION	TOTAL PRICE
4.0	Confirmation of final design/requirements. Confirmed Production Schedule	
4.1	Facility/Operators' Manual OEM component manuals Spare parts lists Maintenance schedule Maintenance instructions	
	TOTAL FOR 4.0 TO 4.1	\$15,450.00



Table 6. TECHNICAL SUPPORT RATES

Project Manager	Management, quality controls/assurance	\$150/Hour
Engineer SME	Electrical, Mechanical, Process	\$125/Hour
Engineering Technologist	Sourcing, Procurement, Quality Plans, Scheduling	\$80/Hour
AutoCAD Draftsperson	Drawings	\$90/Hour
Technical Writer	Manuals, Training Plans, Standard Operating Procedures	\$60/Hour

Table 7. FIELD TECHNICAL SUPPORT RATES

Sr Personnel	Project Manager or Engineer	\$200/Hour	Travel days at \$800/day
Jr Personnel	Technologist or Draftsperson	\$125/Hour	Travel days at \$500/day

8. Commercial Terms

1. Quotation valid for 30 days
2. Prices are in US Funds
3. Subject to correction in the event of errors and/or omissions
4. Excludes any applicable taxes, duties and tariffs

9. Payment Terms

Eco Waste Solutions shall submit monthly invoices to PDC Engineers reflecting the progress on a percentage complete basis for the tasks included in Section 6. Proposed Scope of work, based on the total number of tasks with equal weight given to each task.



Proposal

May 1, 2024

To: Doug Murray, Principal Engineer
RESPEC
Re: MOS Skagway Incinerator Replacement Architectural Services Fee

Doug,

We're pleased to offer you this fee proposal for the architectural support work associated with this incinerator replacement project. NorthWind's scope of services and deliverables are as follows, based on the narrative provided to NorthWind on 4/29:

- 35%: site trip with team, Code Analysis, narrative, schematic drawings only as necessary at this level. Cost Estimate review. Kickoff and progress mtg.
- 65%: Incorporate Owner comments. Update Code Analysis, 65% level Drawings, Update Narrative, TOC Spec Index, Cost Estimate Review. Two progress meetings.
- 95%: Incorporate Owner comments. Update drawings, specifications, review cost estimate. Two progress meetings.
- 100%: Update drawings/specs.
- Compliance Review and Permitting: FM comments, DEC Comments.
- Bidding: Bidding Coordination. Don't need to attend pre-bid mtg.
- Construction Observations: One progress inspection and one SCI. I am assuming MOS will have someone doing onsite inspections like the Transfer Facility.
- Construction Administration: Project coordination RFI, RFP (assume 10 months for construction - 2025), Submittal reviews, closeout.

For this work we propose a fee of \$74,060, rounded from the below break-down:

Task	PA	IA
35%: Code Analysis, narrative, schematic dwgs only as necessary at this level. Cost Estimate review. Kickoff and progress mtg.		
	16	40
35% Site Visit - One Visit	16	0
65%: Incorporate Owner comments. Update Code Analysis, 65% level Drawings, Update Narrative, TOC Spec Index, Cost Estimate Review. Two progress meetings.	16	80
95%: Incorporate Owner comments. Update drawings, specifications, review cost estimate. Two progress meetings.	16	80
100%: Update drawings/specs.	4	16
Compliance Review and Permitting: FM comments, DEC Comments.	4	16
Bidding: Bidding Coordination. No pre-bid mtg.	4	8
Construction Administration: Project coordination RFI, RFP (assume 10 months for construction - 2025), Submittal reviews, Closeout.	80	80
CA and Close-Out Site Visits - Two Visits	16	16
CM/PM	16	0
Time	188	336
Rate	\$ 165.00	\$ 120.00
Sub Total Professional Services	\$ 31,020.00	\$ 40,320.00
TOTAL Professional Services		\$ 71,340.00
Expenses Travel (3 RT flights @ \$500 ea)		\$ 1,500.00
Expenses Lodging (3 nights @ \$200 ea)		\$ 600.00
Meals (12 Total @ \$40 ea)		\$ 440.00
TOTAL Expenses		\$ 2,540.00
Mark-Up (@ 7% on expenses)		\$ 177.80
TOTAL		\$ 74,057.80

Sean M Boily AIA
Principal Architect

James Bibb AIA
Principal Architect

David Hurley AIA
Principal Architect

126 Seward Street
Juneau, AK 99801

p.907.586.6150
f.907.586.6181

NorthWind
Architects, LLC

We propose to provide these services on a T+E basis and are able to begin work immediately. Please let me know if you find this proposal to be reasonable, and of course, reach out with any questions or concerns.

Thank you,



E David Hurley, AIA
Principal Architect
NorthWind Architects, LLC

126 Seward Street
Juneau, AK 99801

p.907.586.6150
f.907.586.6181



April 3, 2024

Douglas Murray
RESPEC Company, LLC
9109 Mendenhall Mall Road, Suite 4
Juneau, Alaska 99801

Re: City of Skagway Incinerator Replacement
Fee Proposal

Doug,

We can provide you with cost estimating services for this project for the fees, outlined below. We have based our proposal on the 35% Design Level Estimate. The fees include one estimate, with a revision based on the design team's review comments, per design level.

Please allow 3 weeks for us to develop a draft for review by the design team.

This proposal is a Fixed Fee, if there is any change in scope we reserve the opportunity to renegotiate our fee.

If you are in agreement with our fee, please sign and date below and return a copy to us.

Item	Rate	Admin \$108.00	Estimator \$87.00	Sr Estimator \$170.00	Firm Fixed Fee
Construction Cost Estimating					
35% Design Level - Provided 3/31/2021					
65% Design Level Submittal	2	\$216.00	14 \$1,218.00	18 \$3,060.00	34 \$4,494.00
95% Design Level Submittal	2	\$216.00	14 \$1,218.00	18 \$3,060.00	34 \$4,494.00
Project Totals	4	\$432.00	28 \$2,436.00	36 \$6,120.00	68 \$8,988.00

We look forward to continue working with you on this project.

Approved by for RESPEC:

Sincerely,

Jay N. Lavoie
President

Signature

Printed Name and Title

Date Approved: