



Date: 2/8/19

Cost Proposal

Jim Wingate
Project Coordinator
Construction & Development
Department of Aviation

Re: **SAIA – Sandau Roof Replacement**

Owner:	San Antonio International Airport
Owner's Representative:	Jim Wingate
Contractor:	Alpha Building Corporation
Project Manager:	Amy Bricker
RFP No.:	181205-01

This Proposal is offered as set forth in the terms and conditions of the contract and the statement of work as amended by a more detailed statement of work attached.

1. All work shall be performed in accordance with the Request for Proposal No. 181205-01
2. Furnish materials, equipment, labor, and supervision as required to complete the scope of work listed below:

a. LOWER ROOF AREA

i. Lower Roof Area :

1. Sweep off loose gravel and debris.
2. Remove built up roofing down to light weight concrete decking.
3. Install ½" tapered crickets in between the roof drains.
4. Mechanically fasten one (1) layer of ½" DensDeck Prime cover board to light weight concrete deck.
5. Install a white reinforced TPO Membrane System as per the manufacturer's requirements.
6. The system will consist of one (1) layer of 60 MIL reinforced TPO membrane fully adhered to the cover board. The edges will be lapped a minimum of 3" and will be hot air welded in place.

ii. DETAIL A- (Edge Metal):

1. Install ½"x 6" CDX plywood nailer to match the new existing height of the roof system.
2. Install 24-gauge galvanized gravel guard.
3. Strip gravel guard in with 8" TPO Strips.

- iii. DETAIL B- (Parapet Walls where Lower & Upper Roofs Meet):
 - 1. Install ½"x 12" CDX plywood at parapet walls.
 - 2. Install 12" TPO flashing same thickness as membrane at parapet walls. Secure top of flashing (except at small projections) with termination bar and 24-gauge galvanized surface mounted counter flashing.
 - iv. DETAIL C- (Parapet Walls with Coping Cap):
 - 1. Install ½"x 18" CDX plywood at parapet walls.
 - 2. Install 18" TPO flashing same thickness as membrane at parapet walls. Secure top of flashing (except at small projections) with termination bar and 24- gauge galvanized coping cap with plates.
 - v. CURBS & PENETRATIONS:
 - 1. Install TPO curb flashing same thickness as membrane at curbs. Secure top of flashing with termination bar and 24-gauge galvanized A/C counter flashing.
 - 2. Re-flash all jacks, pipes, and penetrations.
 - 3. Install TPO walk-pads at roof hatch and service side of A/C units.
 - 4. Install PPH-PP-10 pipe supports to replace existing.
- b. UPPER ROOF AREA:**
- i. Upper Roof Area
 - 1. Sweep off loose gravel and debris.
 - 2. Tear off existing built up roofing down to concrete decking.
 - 3. Prime concrete deck with Vapor Retarder Primer.
 - 4. Install one (1) layer of self-adhering vapor barrier.
 - 5. In low-rise foam install ½" tapered crickets in between the roof drains.
 - 6. In low-rise foam loose lay one (1) layer of ½" DensDeck Prime cover board to light weight concrete deck.
 - 7. Install a white reinforced TPO Membrane System as per the manufacturer's requirements.
 - 8. The system will consist of one (1) layer of 60 MIL reinforced TPO membrane fully adhered to cover board. The edges will be lapped a minimum of 3" and will be hot air welded in place.
 - ii. DETAIL A- (Edge Metal):
 - 1. Install ½"x 6" CDX plywood nailer to match the new existing height of the roof system.
 - 2. Install 24-gauge galvanized gravel guard. Strip gravel with 8" TPO strips.

- iii. **DETAIL C- (Parapet Walls with Coping Cap):**
 - 1. Install ½"x 18" CDX plywood at parapet walls.
 - 2. Install 18" TPO flashing same thickness as membrane at parapet walls. Secure top of flashing (except at small projections) with termination bar and 24-gauge galvanized coping cap with plates.
 - c. **CURBS & PENETRATIONS:**
 - i. Install TPO curb flashing same thickness as membrane at curbs. Secure top of flashing with termination bar and 24-gauge galvanized A/C counter flashing.
 - ii. Re-flash all jacks, pipes, and penetrations.
 - iii. Install TPO walk-pads at service side of A/C units.
 - iv. Install PPH-PP-10 pipe supports to replace existing.
 - d. **CANOPY ROOF AREAS:**
 - i. **Canopy Roof Areas**
 - 1. Sweep off loose gravel and debris.
 - 2. Remove built-up roofing membrane to light weight concrete decking.
 - 3. Mechanically fasten one (1) layer of ½" DensDeck Prime cover board to light weight concrete deck.
 - 4. Install a white reinforced TPO Membrane System as per the manufacturer's requirements.
 - 5. The system will consist of one (1) layer of 60 MIL reinforced TPO membrane fully adhered to the cover board. The edges will be lapped a minimum of 3" and will be hot air welded in place
 - ii. **DETAIL A- (Edge Metal):**
 - 1. Install ½"x 6" CDX plywood nailer to match the new existing height of the roof system.
 - 2. Install 24-gauge galvanized gravel guard. Strip gravel guard in with 8" TPO strips.
3. The current wage decision is included in this proposal.
4. No other job related requirements are acknowledged or included in this offer



Assumptions & Clarifications

1. No handling or disposal of hazardous materials.
2. Work to be performed during standard working hours Monday through Friday.
3. We exclude evenings, weekends and holidays.
4. We exclude all unforeseen conditions.
5. Any additional work/deficiencies discovered after removal of the existing roof will need to be evaluated and priced separately.
6. Beldon's (2) year Limited Warranty is included.
7. Manufacturer's (20) year limited "NDL" warranty is included.
8. Beldon does not perform any design calculations on existing conditions and will not bring existing items up to code if it is a remove and replace.

Projected scheduled time frame: 5 Weeks

Cost: **\$ 155,712.11**

Bond: **\$ 3,570.00**

Total Cost: **\$ 159,282.11**

Respectfully,

Amy Bricker

Amy Bricker, Project Manager
Alpha Building Corporation

Attached: RS MEANS



Final Estimate

Amy Bricker

Alpha Building Corporation

2018-10-11-0808 - San Antonio Airport JOC - Basic Contract Year - 10/11/2018

to 10/10/2019

SAIA - Sandau Roof Replacement - 181205-01

Estimator: Amy Bricker

Summary of tagged estimates...

Division Summary (MF04)

01 - General Requirements	\$36,395.50
02 - Existing Conditions	\$5,465.00
03 - Concrete	
04 - Masonry	
05 - Metals	
06 - Wood, Plastics, and Composites	\$6,299.27
07 - Thermal and Moisture Protection	\$102,135.07
08 - Openings	
09 - Finishes	
10 - Specialties	
11 - Equipment	
12 - Furnishings	
13 - Special Construction	
14 - Conveying Equipment	
21 - Fire Suppression	
22 - Plumbing	\$17,975.00
23 - Heating, Ventilating, and Air-Conditioning (HVAC)	
25 - Integrated Automation	

26 - Electrical	
27 - Communications	
28 - Electronic Safety and Security	
31 - Earthwork	
32 - Exterior Improvements	
33 - Utilities	
34 - Transportation	
35 - Waterway and Marine Transportation	
41 - Material Processing and Handling Equipment	
44 - Pollution Control Equipment	
46 - Water and Wastewater Equipment	
48 - Electric Power Generation	
Alternate	\$85,663.79
Trades	
Assemblies	
FMR	
MF04 Total (Without totalling components)	\$253,933.63

Totalling Components

RS Means Subtotal	\$253,933.63
RSMeans SAN ANTONIO, TX CCI 2018Q3, 87.60%	\$(31,487.76)

STD HR Coefficient (-30.0000%)	\$(66,733.76)
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Material, Labor, and Equipment Totals (No Totalling Components)

Material:	\$59,723.88
Labor:	\$178,604.80
Equipment:	\$15,604.95
Other:	\$0.00
Laborhours:	2,357.89
Green Line Items:0	\$0.00

Priced/Non-Priced

Total Priced Items:	57	\$253,933.63	
Total Non-Priced Items:	0	\$0.00	0.00%
	57	\$253,933.63	

Grand Total \$155,712.11

Final Estimate

Estimator: Amy Bricker

Combined estimates...

Item	Description	UM	Quantity	Unit Cost	Total	Book	
01 - General Requirements							
1	01-31-13-20-0020	Field personnel, clerk, average	Week	2.0000	\$780.00	\$1,560.00 RSM18eFAC L, O&P	P
2	01-31-13-20-0220	Field personnel, project manager, maximum	Week	1.5000	\$4,500.00	\$6,750.00 RSM18eFAC L, O&P	P
3	01-31-13-20-0280	Field personnel, superintendent, maximum	Week	4.5000	\$4,175.00	\$18,787.50 RSM18eFAC L, O&P	P
4	01-54-23-80-5010	Staging aids, and fall protection equipment, installation, setup and removal of staging aids, sidewall staging bracket	Ea.	30.0000	\$20.50	\$615.00 RSM18eFAC L, O&P	P
5	01-54-23-80-5020	Staging aids, and fall protection equipment, installation, setup and removal of staging aids, sidewall staging, guard post with 2 wood rails	Ea.	30.0000	\$20.50	\$615.00 RSM18eFAC L, O&P	P
6	01-54-33-40-0070-2	Rent per day for general equipment rental, without operators, aerial lift, articulating boom, diesel, to 45' high, 500 lb. capacity	Ea.	20.0000	\$300.30	\$6,006.00 RSM18eFAC E, O&P	P
7	01-54-33-40-6410-3	Rent per week for general equipment rental, without operators, toilet, portable chemical	Ea.	20.0000	\$72.60	\$1,452.00 RSM18eFAC E, O&P	P
8	01-54-36-50-1300	Mobilization, up to 25 mile haul distance, 50 miles round trip for mobilization or demobilization crew, equipment hauled on towed trailer, 3-ton capacity Mobilization and demobilization of material and equipment	Ea.	2.0000	\$305.00	\$610.00 RSM18eFAC L, E, O&P	P
01 - General Requirements Total						\$36,395.50	
02 - Existing Conditions							
9	02-41-19-19-0840	Selective demolition, rubbish handling, the following are to be added to the demolition prices. Dumpster, weekly rental, includes one dump per week, 40 C.Y. capacity, 10 tons 5 pulls	Week	5.0000	\$850.00	\$4,250.00 RSM18eFAC M, O&P	P
10	02-41-19-20-0100	Selective demolition, dump charges, typical urban city, tipping fees only, building construction materials	Ton	15.0000	\$81.00	\$1,215.00 RSM18eFAC M, O&P	P
02 - Existing Conditions Total						\$5,465.00	
06 - Wood, Plastics, and Composites							
11	06-11-10-24-5100	Miscellaneous framing, nailers, treated, wood construction, 2" x 6" Deetail a - CDX plywood nailer Lower Roof Area	L.F.	284.0000	\$2.57	\$729.88 RSM18eFAC M, L, O&P	P
12	06-11-10-24-5100	Miscellaneous framing, nailers, treated, wood construction, 2" x 6" Detail A - CDX plywood nailer Upper Roof Area	L.F.	175.0000	\$2.57	\$449.75 RSM18eFAC M, L, O&P	P

Final Estimate

Estimator: Amy Bricker

Combined estimates...

06 - Wood, Plastics, and Composites

Item	Description	UM	Quantity	Unit Cost	Total	Book
13 06-11-10-24-5100	Miscellaneous framing, nailers, treated, wood construction, 2" x 6" Detail A Canopy Roof Area	L.F.	60.0000	\$2.57	\$154.20	RSM18eFAC M, L, O&P P
14 06-11-10-30-5800	Roof framing, ridge board, #2 or better, 1" x 6" Roof crickets - tapered - between roof drains	L.F.	1,372.0000	\$3.05	\$4,184.60	RSM18eFAC M, L, O&P P
15 06-16-36-10-0102	Sheathing, plywood on roofs, CDX, 1/2" thick Detail B - parapet wall where lower and upper roof meet Lower Roof Area	S.F.	150.0000	\$1.62	\$243.00	RSM18eFAC M, L, O&P P
16 06-16-36-10-0102	Sheathing, plywood on roofs, CDX, 1/2" thick Detail c - CDX Plywood at Parapet Walls Lower Roof Area	S.F.	134.5000	\$1.62	\$217.89	RSM18eFAC M, L, O&P P
17 06-16-36-10-0102	Sheathing, plywood on roofs, CDX, 1/2" thick Detail C - CDX Plywood at Parapet walls Upper Roof Area	S.F.	197.5000	\$1.62	\$319.95	RSM18eFAC M, L, O&P P
06 - Wood, Plastics, and Composites Total					\$6,299.27	

07 - Thermal and Moisture Protection

18 07-05-05-10-3720	Selective demolition, thermal and moisture protection, roofing, built-up, no gravel, 5 ply, with gravel Remove built up roof down to lightweight concrete decking Lower Roof Area	S.F.	6,948.0000	\$2.94	\$20,427.12	RSM18eFAC L, O&P P
19 07-05-05-10-3720	Selective demolition, thermal and moisture protection, roofing, built-up, no gravel, 5 ply, with gravel Tear off existing built up roof down to concrete deck Upper Roof Area	S.F.	4,284.0000	\$2.94	\$12,594.96	RSM18eFAC L, O&P P
20 07-05-05-10-3720	Selective demolition, thermal and moisture protection, roofing, built-up, no gravel, 5 ply, with gravel Remove built up roofing membrane to light weight concrete deck Canopy Roof Area	S.F.	146.0000	\$2.94	\$429.24	RSM18eFAC L, O&P P
21 07-05-05-10-3725	Selective demolition, thermal and moisture protection, roofing, built-up, loose gravel removal	S.F.	6,948.0000	\$0.52	\$3,612.96	RSM18eFAC L, O&P P

Final Estimate

Estimator: Amy Bricker

Combined estimates...

07 - Thermal and Moisture Protection

Item	Description	UM	Quantity	Unit Cost	Total	Book
	Sweep off loose gravel and debris Lower Roof Area					
22	07-05-05-10-3725 Selective demolition, thermal and moisture protection, roofing, built-up, loose gravel removal sweep off loose gravel and debris Upper Roof Area	S.F.	4,284.0000	\$0.52	\$2,227.68	RSM18eFAC L, O&P P
23	07-05-05-10-3725 Selective demolition, thermal and moisture protection, roofing, built-up, loose gravel removal Sweep off loose gravel and debris Canopy Roof Area	S.F.	146.0000	\$0.52	\$75.92	RSM18eFAC L, O&P P
24	07-13-53-10-2200 Elastomeric sheet waterproofing and access., polyethylene and rubberized asphalt sheets, 60 mils thick Carlisle VapAir Seal - Air and Vapor Barrier Upper Roof Area	S.F.	4,284.0000	\$3.31	\$14,180.04	RSM18eFAC M, L, O&P P
25	07-16-16-20-0020 Cementitious waterproofing, cement base, 1/8" application, sprayed on Carlisle low voc adhesive and primer - concrete deck vapor retarder barrier Upper Roof Area	S.F.	4,284.0000	\$3.03	\$12,980.52	RSM18eFAC M, L, E, O&P P
26	07-22-16-10-0810 Roof deck insulation, excluding fastening, gypsum cover board, fiberglass mat facer, 1/2" thick 1/2" DensDeck Prime Cover Board Lower Roof Area	S.F.	6,948.0000	\$1.13	\$7,851.24	RSM18eFAC M, L, O&P P
27	07-22-16-10-0810 Roof deck insulation, excluding fastening, gypsum cover board, fiberglass mat facer, 1/2" thick 1/2" DensDeck Prime Cover Board Upper Roof Area	S.F.	4,284.0000	\$1.13	\$4,840.92	RSM18eFAC M, L, O&P P
28	07-22-16-10-0810 Roof deck insulation, excluding fastening, gypsum cover board, fiberglass mat facer, 1/2" thick 1/2" DensDeck Prime Cover Board Canopy Roof Area	S.F.	146.0000	\$1.13	\$164.98	RSM18eFAC M, L, O&P P
29	07-22-16-10-3010 Roof deck insulation, fastening alternatives, coated screws, 4" long	Ea.	5,000.0000	\$0.32	\$1,600.00	RSM18eFAC M, L, O&P P
30	07-22-16-10-3075 Roof deck insulation, fastening alternatives, 3" galvanized deck plates	Ea.	5,000.0000	\$0.17	\$850.00	RSM18eFAC M, L, O&P P

Estimator: Amy Bricker

Combined estimates...

07 - Thermal and Moisture Protection

Item	Description	UM	Quantity	Unit Cost	Total	Book
31 07-54-23-10-0200	Thermoplastic polyolefin roofing (T.P.O.), 60 mil membrane, heat welded seams, fully adhered Detail B - 12" TPO flashing at parapet walls Lower Roof Area	Sq.	1.5000	\$221.00	\$331.50	RSM18eFAC M, L, E, O&P P
32 07-54-23-10-0200	Thermoplastic polyolefin roofing (T.P.O.), 60 mil membrane, heat welded seams, fully adhered Detail A - 8" strips at gravel guard Lower Roof Area	Sq.	1.8600	\$221.00	\$411.06	RSM18eFAC M, L, E, O&P P
33 07-54-23-10-0200	Thermoplastic polyolefin roofing (T.P.O.), 60 mil membrane, heat welded seams, fully adhered Detail C - 18" TPO flashing at parapet walls Lower Roof Area	Sq.	1.3450	\$221.00	\$297.25	RSM18eFAC M, L, E, O&P P
34 07-54-23-10-0200	Thermoplastic polyolefin roofing (T.P.O.), 60 mil membrane, heat welded seams, fully adhered Detail C - 18" TPO flashing at parapet wall Canopy Roof Area	Sq.	1.8750	\$221.00	\$414.38	RSM18eFAC M, L, E, O&P P
35 07-54-23-10-0200	Thermoplastic polyolefin roofing (T.P.O.), 60 mil membrane, heat welded seams, fully adhered walk pads at service side of AC units	Sq.	3.0000	\$221.00	\$663.00	RSM18eFAC M, L, E, O&P P
36 07-65-10-10-9324	Sheet metal flashing and counter flashing, including up to 4 bends, steel sheets, galvanized, 24 gauge Detail B - counter flashing at parapet walls Lower Roof Area	S.F.	140.0000	\$5.55	\$777.00	RSM18eFAC M, L, O&P P
37 07-65-10-10-9324	Sheet metal flashing and counter flashing, including up to 4 bends, steel sheets, galvanized, 24 gauge 24 ga galvanized coping cap	S.F.	418.0000	\$5.55	\$2,319.90	RSM18eFAC M, L, O&P P
38 07-71-16-20-0100	Pitch pockets, variable sizes, adjustable, 4" to 7", welded corners, 4" deep (12) 4" x 4" (5) 6" x 6" (1) 8" x 8" (1) 12" x 12" - Due to line item sizing counted as 2 (2) 12" x 36" - Due to line itme sizing counted as 5	Ea.	32.0000	\$31.50	\$1,008.00	RSM18eFAC M, L, O&P P
39 07-71-19-10-1350	Gravel stop, galvanized steel, plain, 24 gauge, with continuous cleat, 4" leg, 4" face height 24 ga galvanized gravel guard	L.F.	518.0000	\$12.35	\$6,397.30	RSM18eFAC M, L, O&P P

Final Estimate

Estimator: Amy Bricker

Combined estimates...

07 - Thermal and Moisture Protection

Item	Description	UM	Quantity	Unit Cost	Total	Book
40 07-71-26-10-1300	Reglets and accessories, counter flashing for above, 12" wide, galvanized steel, 26 gauge Counter flashing at A/C	L.F.	200.0000	\$6.45	\$1,290.00	RSM18eFAC M, L, O&P P
41 07-71-26-10-1300	Reglets and accessories, counter flashing for above, 12" wide, galvanized steel, 26 gauge Surface mounted counter flashing	L.F.	188.0000	\$6.45	\$1,212.60	RSM18eFAC M, L, O&P P
42 07-72-23-10-0020	Roof vents, mushroom shape, for built-up roofs, aluminum Roof Vents	Ea.	11.0000	\$92.50	\$1,017.50	RSM18eFAC M, L, O&P P
43 07-92-13-20-3900	Caulking and sealant options, polyurethane, 1 or 2 component, bulk, in place, 1" x 1/2"	L.F.	1,000.0000	\$4.16	\$4,160.00	RSM18eFAC M, L, O&P P

07 - Thermal and Moisture Protection Total \$102,135.07

22 - Plumbing

44 22-05-29-10-7424	Hangers and supports for plumb'g/HVAC pipe/equip., roof supports, pipe, strut and channel type, up to 2-1/2" diameter pipe, 3-1/2" off roof Roof pipe support for 100 LF	Ea.	10.0000	\$80.00	\$800.00	RSM18eFAC M, L, O&P P
45 22-14-26-13-4400	Roof drains, roof, integral expansion joint, cast iron body, 12" cast iron dome, 8" pipe size Roof Drains	Ea.	6.0000	\$2,200.00	\$13,200.00	RSM18eFAC M, L, O&P P
46 22-14-26-16-5100	Facility area drains, scupper floor, oblique strainer, cast iron, 8" x 12" top, 5" and 6" pipe size Roof Scuppers	Ea.	5.0000	\$795.00	\$3,975.00	RSM18eFAC M, L, O&P P

22 - Plumbing Total \$17,975.00

Alternate

47 07-54-23-10-0200	Thermoplastic polyolefin roofing (T.P.O.), 60 mil membrane, heat welded seams, fully adhered 60 Mil TPO fully adhered - min of 3" overlap - Material Only Lower Roof Area	Sq.	83.3700	\$106.98	\$8,918.92	CUSTOM M, E, O&P P
48 07-54-23-10-0200	Thermoplastic polyolefin roofing (T.P.O.), 60 mil membrane, heat welded seams, fully adhered 60 Mil TPO - fully adhered - min 3" overlap - material only Upper Roof Area	Sq.	51.4000	\$106.98	\$5,498.77	CUSTOM M, E, O&P P
49 07-54-23-10-0200	Thermoplastic polyolefin roofing (T.P.O.), 60 mil membrane, heat welded seams, fully adhered 60 Mil TPO - Fully Adhered - min 3" overlap - Material Only	Sq.	1.7500	\$106.98	\$187.22	CUSTOM M, E, O&P P

Final Estimate

Estimator: Amy Bricker

Combined estimates...

Alternate		Item	Description	UM	Quantity	Unit Cost	Total	Book	
		Canopy Roof Area							
50	07-71-16-20-0100		Demo - Pitch pockets, variable sizes, adjustable, 4" to 7", welded corners, 4" deep Labor Adjustment: 50% of \$13.18 = \$6.59 ----- Using O&P Pricing Bare Costs: (M:\$16.65 L:\$7.35 E: O:48.00 LH:0.167) O&P Labor Calc = O&P Total - (Bare Material + 10.000%) - (Bare Equipment + 10.000%) \$31.50 - \$18.32 - \$0.00 = \$13.18 Labor w/CCI = \$13.18 * 100.000% = \$13.18	Ea.	32.0000	\$6.59	\$210.88	CUSTOM L, O&P	P
51	07-72-23-10-0020		Demo - Roof vents, mushroom shape, for built-up roofs, aluminum Labor Adjustment: 50% of \$21.00 = \$10.50 ----- Using O&P Pricing Bare Costs: (M:\$65.00 L:\$11.70 E: O:30.00 LH:0.267) O&P Labor Calc = O&P Total - (Bare Material + 10.000%) - (Bare Equipment + 10.000%) \$92.50 - \$71.50 - \$0.00 = \$21.00 Labor w/CCI = \$21.00 * 100.000% = \$21.00	Ea.	11.0000	\$10.50	\$115.50	CUSTOM L, O&P	P
52	22-14-26-13-4400		Demo - Roof drains, roof, integral expansion joint, cast iron body, 12" cast iron dome, 8" pipe size Labor Adjustment: 50% of \$467.50 = \$233.75 ----- Using O&P Pricing Bare Costs: (M:\$1,575.00 L:\$298.00 E: O:3.00 LH:5.333) O&P Labor Calc = O&P Total - (Bare Material + 10.000%) - (Bare Equipment + 10.000%) \$2,200.00 - \$1,732.50 - \$0.00 = \$467.50 Labor w/CCI = \$467.50 * 100.000% = \$467.50	Ea.	6.0000	\$233.75	\$1,402.50	CUSTOM L, O&P	P
		Roof Drains							
53	22-14-26-16-5100		Demo - Facility area drains, scupper floor, oblique strainer, cast iron, 8" x 12" top, 5" and 6" pipe size Labor Adjustment: 50% of \$102.00 = \$51.00 ----- Using O&P Pricing Bare Costs: (M:\$630.00 L:\$64.00 E: O:14.00 LH:1.143) O&P Labor Calc = O&P Total - (Bare Material + 10.000%) - (Bare Equipment + 10.000%) \$795.00 - \$693.00 - \$0.00 = \$102.00 Labor w/CCI = \$102.00 * 100.000% = \$102.00	Ea.	5.0000	\$51.00	\$255.00	CUSTOM L, O&P	P
		Roof Scuppers							
54	Crew G-05		G-05 Crew - 2019 - RSMeans Standard Books O&P G-05 (2019 - RSMeans Standard Books)	Daily	9.0000	\$2,929.59	\$26,366.31	CUSTOM L, E, O&P	P

Alternate

Item	Description	UM	Quantity	Unit Cost	Total	Book
	Labor Hours: 40 Equip Hours: 8 Daily Hours: 40 Crew Details: Code: ROFC Description: Roofers, Composition (Outside Foreman) Qty: 1 Hourly: 78.39 Daily: 627.12 Code: ROFC Description: Roofers, Composition Qty: 2 Hourly: 75.05 Daily: 1200.8 Code: ROHE Description: Roofers, Helpers (Composition) Qty: 2 Hourly: 56.4 Daily: 902.4 Code: 015433100900 Description: Application Equipment Qty: 1 Hourly: 0 Daily: 199.27 Lower Roof Area					
55	Crew G-05 G-05 Crew - 2019 - RSMeans Standard Books O&P G-05 (2019 - RSMeans Standard Books) Labor Hours: 40 Equip Hours: 8 Daily Hours: 40 Crew Details: Code: ROFC Description: Roofers, Composition (Outside Foreman) Qty: 1 Hourly: 78.39 Daily: 627.12 Code: ROFC Description: Roofers, Composition Qty: 2 Hourly: 75.05 Daily: 1200.8 Code: ROHE Description: Roofers, Helpers (Composition) Qty: 2 Hourly: 56.4 Daily: 902.4 Code: 015433100900 Description: Application Equipment Qty: 1 Hourly: 0 Daily: 199.27 Upper Roof Area	Daily	9.0000	\$2,929.59	\$26,366.31	CUSTOM L, E, O&P
56	Crew G-05 G-05 Crew - 2019 - RSMeans Standard Books O&P G-05 (2019 - RSMeans Standard Books) Labor Hours: 40 Equip Hours: 8 Daily Hours: 40 Crew Details: Code: ROFC Description: Roofers, Composition (Outside Foreman) Qty: 1 Hourly: 78.39 Daily: 627.12 Code: ROFC Description: Roofers, Composition Qty: 2 Hourly: 75.05 Daily: 1200.8 Code: ROHE Description: Roofers, Helpers (Composition) Qty: 2 Hourly: 56.4 Daily: 902.4 Code: 015433100900 Description: Application Equipment Qty: 1 Hourly: 0 Daily: 199.27 Canopy Roof Area	Daily	2.0000	\$2,929.59	\$5,859.18	CUSTOM L, E, O&P
57	Crew Q-02 Q-02 Crew - 2018 - RSMeans Standard Books O&P Q-02 (2018 - RSMeans Standard Books) Labor Hours: 24 Equip Hours: 0 Daily Hours: 24	Daily	5.0000	\$2,096.64	\$10,483.20	CUSTOM L, O&P

Final Estimate

Estimator: Amy Bricker

Combined estimates...

Alternate						
Item	Description	UM	Quantity	Unit Cost	Total	Book
	Crew Details: Code: PLUM Description: Plumbers Qty: 2 Hourly: 93.6 Daily: 1497.6 Code: PLUM Description: Plumbers (Apprentice) Qty: 1 Hourly: 74.88 Daily: 599.04					
	Crew to re run condensate and gas line					
Alternate Total						\$85,663.79
Estimate Grand Total					155,712.11	