

**Detailed Estimate**

ITEM #	REF. SHEET	DETAIL	CSI SECT	DESCRIPTION	QTY.	WASTAGE	QTY WITH WASTAGE	UNIT	UNIT MATERIAL COST	UNIT LABOR COST	TOTAL MATERIAL COST	TOTAL LABOR COST	UNIT ITEM COST	TOTAL ITEM COST	TRADE COST
			DIV-01	GENERAL											\$ -
1				Permit	1	0%	1	LS					\$ -		
2				Supervision	1	0%	1	LS					\$ -		
3				Final Cleanup	1	0%	1	LS					\$ -		
4				Mobilization Cost	1	0%	1	LS					\$ -		
5				Project Overheads	1	0%	1	LS					\$ -		
6				Bonds	1	0%	1	LS					\$ -		
7				Fees (Architect & Engineer)	1	0%	1	LS					\$ -		
8				Temporary Control & Facilities	1	0%	1	LS					\$ -		
			DIV-07	THERMAL AND MOISTURE PROTECTION											\$ -
				<b>New Roof &amp; Roof Accessories</b>											
9				New 135 Mil grey fleeceback TPO Roof membrane w/ a peel over new 4" uiform thickness insulation system on structural concrete roof deck. Roof slope and crickets are integrated w/ roof deck	239,798	10%	263,778	SF			\$ -	\$ -	\$ -	\$ -	
10				Alternate # 1: 80 MIL, Grey TPO Roof membrane w/ Apeel on speicfied insulation assembly	239,798	10%	263,778	SF			\$ -	\$ -	\$ -	\$ -	
11				New 135 Mil grey fleeceback TPO Roof membrane w/ a peel over new 4" uiform thickness insulation system on metal roof deck and new tapered insulation crickets.	22,056	10%	24,262	SF			\$ -	\$ -	\$ -	\$ -	
12				Alternate # 1: 80 MIL, Grey TPO Roof membrane w/ Apeel on speicfied insulation assembly	22,056	10%	24,262	SF			\$ -	\$ -	\$ -	\$ -	
13				New 135 Mil grey fleeceback TPO Roof membrane w/ a peel over new tapered insulation system on structural roof deck.	3,774	10%	4,152	SF			\$ -	\$ -	\$ -	\$ -	
14				Alternate # 1: 80 MIL, Grey TPO Roof membrane w/ Apeel on speicfied insulation assembly	3,774	10%	4,152	SF			\$ -	\$ -	\$ -	\$ -	
15				New 0.05" MILL Finish Alum. Counter flashing installed into existing thru-wall receiver. Match counterflashing profile removed	1,852	10%	2,037	LF			\$ -	\$ -	\$ -	\$ -	
16				New 0.050" Aluminum roof edge metal- Finish to match vertical panels. Profile shall match edge metal removed	6,153	10%	6,768	LF			\$ -	\$ -	\$ -	\$ -	
17				Existing window wash davit base. Install new pitch pan	241	0%	241	EA			\$ -	\$ -	\$ -	\$ -	
18				Existing fall protection anchors. Install new pitch pan	222	0%	222	EA			\$ -	\$ -	\$ -	\$ -	
19				New 0.05" MILL Finish alum coping. Extend TPO wall flashing up face of wall over top of parapet	1,117	10%	1,229	LF			\$ -	\$ -	\$ -	\$ -	
20				Existing vtr. Provide pipe extensions as required to provide min 8" above new roof elevation. Flash integrally with new roof assmly	44	0%	44	EA			\$ -	\$ -	\$ -	\$ -	
21				(2'8" x 8'4") Roof hatch	4	0%	4	EA			\$ -	\$ -	\$ -	\$ -	
22	A-300			Guard rail around roof hatch	132	10%	145	LF			\$ -	\$ -	\$ -	\$ -	
23	A-301			Install 60 MIL TPO Base flashing to top of curb	132	10%	145	LF			\$ -	\$ -	\$ -	\$ -	
24	A-302	See Key notes		Existing fire riser and siamese connection. Install new pitch pans	26	0%	26	EA			\$ -	\$ -	\$ -	\$ -	
25	A-310			Existing stone cap and sheet metal reglet flashing. Install new base flashing full height to new 0.50" MIL Finish alum counterflashing	337	10%	371	LF			\$ -	\$ -	\$ -	\$ -	
26	A-311			Install TPO Flashing over top of existing curb of dog house. Reinstall dog house onto curb w/ neoprene washers & stainless steel screws @ 9" O.C.	4	0%	4	EA			\$ -	\$ -	\$ -	\$ -	
27				Existing roof curb. Install new 60 Mil TPO Base flashing. Flashing shall extend over top of existing curb. Reinstall metal cap	32	10%	35	LF			\$ -	\$ -	\$ -	\$ -	
28				Install new pitch pans at stair support structure	20	0%	20	EA			\$ -	\$ -	\$ -	\$ -	
29				New drainage sump at existing roof drain location. Install tapered edge board as required to transition to insulation assembly.	169	0%	169	EA			\$ -	\$ -	\$ -	\$ -	
30				Existing sloped surface to receive 130 MIL, Grey fleeceback TPO membrane on new 1/2" densedeck on existing substrate	1,047	10%	1,152	SF			\$ -	\$ -	\$ -	\$ -	
31				Install 1/2" Densedeck over existing substrate. Install specified TPO roof membrane	501	10%	551	SF			\$ -	\$ -	\$ -	\$ -	
32				Install 60 MIL TPO Flashing over top of existing fan curb	68	10%	75	LF			\$ -	\$ -	\$ -	\$ -	
33				New guard rail	432	10%	475	LF			\$ -	\$ -	\$ -	\$ -	

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34				Existing wall shall receive 2 coats of paint. Equivalent to sherwin williams pro-industrial exterior acrylic paint. Preparation of wall surface and paint shall be performed by a licensed commercial painter	1,788	10%	1,967	SF			\$ -	\$ -	\$ -	\$ -	
35				New Steel suport structure w/ new steel bar grating	2,764	10%	3,040	SF			\$ -	\$ -	\$ -	\$ -	
36				New steel bar grating hinged access panel	9	0%	9	EA			\$ -	\$ -	\$ -	\$ -	
37				Paint existing steel ladder w/ 2 coats of sherwin williams emerald semi-gloss panit. Preparation of wall surface and paint shall be performed by a licensed commercial painter	62	10%	68	LF			\$ -	\$ -	\$ -	\$ -	
38				Paint existing HM Door and frame	8	0%	8	EA			\$ -	\$ -	\$ -	\$ -	
39				Vertical face of wall install 1/2" gypsum board w/ 60 mil TPO Flashing	1,838	10%	2,022	SF			\$ -	\$ -	\$ -	\$ -	
40				Vertical face of wall install 60 mil TPO Flashing to upper metal counter flashing	81	10%	89	LF			\$ -	\$ -	\$ -	\$ -	
41				Install 1/2" densedeck w/ 60 MIL TPO Flashinf	79	10%	87	LF			\$ -	\$ -	\$ -	\$ -	
				<b>Metal Framing</b>											
42				C 6x10.5	190	10%	209	LF			\$ -	\$ -	\$ -	\$ -	
43				C 6x13	93	10%	102	LF			\$ -	\$ -	\$ -	\$ -	
44				L 3x3x3/8	12	10%	13	LF			\$ -	\$ -	\$ -	\$ -	
45				L 5x3x1/2	12	10%	13	LF			\$ -	\$ -	\$ -	\$ -	
				<b>Metal Panel Replacement</b>											
46				BWF-1: Replace damaged metal face factory laminated honeycomb wall panels and accessories w/ new. Panel to be manufactured by the original OEM	11	10%	12	SF			\$ -	\$ -	\$ -	\$ -	
47				BWF-3: Replace damaged metal face factory laminated honeycomb wall panels and accessories w/ new. Panel to be manufactured by the original OEM	1	10%	1	SF			\$ -	\$ -	\$ -	\$ -	
48				BWF-10: Replace damaged metal face factory laminated honeycomb wall panels and accessories w/ new. Panel to be manufactured by the original OEM	1	10%	1	SF			\$ -	\$ -	\$ -	\$ -	
49				WL-1: Replace damaged metal face factory laminated honeycomb wall panels and accessories w/ new. Panel to be manufactured by the original OEM	1	10%	1	SF			\$ -	\$ -	\$ -	\$ -	
50				WL-2: Replace damaged metal face factory laminated honeycomb wall panels and accessories w/ new. Panel to be manufactured by the original OEM	6	10%	7	SF			\$ -	\$ -	\$ -	\$ -	
51				WL-3: Replace damaged metal face factory laminated honeycomb wall panels and accessories w/ new. Panel to be manufactured by the original OEM	7	10%	8	SF			\$ -	\$ -	\$ -	\$ -	
52				SS-2: Replace damaged metal face factory laminated honeycomb wall panels and accessories w/ new. Panel to be manufactured by the original OEM	3	10%	3	SF			\$ -	\$ -	\$ -	\$ -	
53				SS-3: Replace damaged metal face factory laminated honeycomb wall panels and accessories w/ new. Panel to be manufactured by the original OEM	3	10%	3	SF			\$ -	\$ -	\$ -	\$ -	
54				SR-8: Replace damaged metal face factory laminated honeycomb wall panels and accessories w/ new. Panel to be manufactured by the original OEM	2	10%	2	SF			\$ -	\$ -	\$ -	\$ -	
55				SS-9: Replace damaged metal face factory laminated honeycomb wall panels and accessories w/ new. Panel to be manufactured by the original OEM	1	10%	1	SF			\$ -	\$ -	\$ -	\$ -	
56				TPB-1: Replace damaged metal face factory laminated honeycomb wall panels and accessories w/ new. Panel to be manufactured by the original OEM	1	10%	1	SF			\$ -	\$ -	\$ -	\$ -	
57				TPB-2: Replace damaged metal face factory laminated honeycomb wall panels and accessories w/ new. Panel to be manufactured by the original OEM	5	10%	6	SF			\$ -	\$ -	\$ -	\$ -	
58				TPB-3: Replace damaged metal face factory laminated honeycomb wall panels and accessories w/ new. Panel to be manufactured by the original OEM	1	10%	1	SF			\$ -	\$ -	\$ -	\$ -	
59	GC-1.1			TPB-4: Replace damaged metal face factory laminated honeycomb wall panels and accessories w/ new. Panel to be manufactured by the original OEM	5	10%	6	SF			\$ -	\$ -	\$ -	\$ -	
60	GC-1.2			BW-1: Replace damaged metal face factory laminated honeycomb wall panels and accessories w/ new. Panel to be manufactured by the original OEM	19	10%	21	SF			\$ -	\$ -	\$ -	\$ -	
61	GC-1.3			BW-2: Replace damaged metal face factory laminated honeycomb wall panels and accessories w/ new. Panel to be manufactured by the original OEM	3	10%	3	SF			\$ -	\$ -	\$ -	\$ -	
62	GC-1.5			BW-3: Replace damaged metal face factory laminated honeycomb wall panels and accessories w/ new. Panel to be manufactured by the original OEM	2	10%	2	SF			\$ -	\$ -	\$ -	\$ -	
63	GC-1.6			WK-1: Replace damaged metal face factory laminated honeycomb wall panels and accessories w/ new. Panel to be manufactured by the original OEM	2	10%	2	SF			\$ -	\$ -	\$ -	\$ -	
64	GC-1.4			WP-1: Replace damaged metal face factory laminated honeycomb wall panels and accessories w/ new. Panel to be manufactured by the original OEM	1	10%	1	SF			\$ -	\$ -	\$ -	\$ -	
65				WP-2: Replace damaged metal face factory laminated honeycomb wall panels and accessories w/ new. Panel to be manufactured by the original OEM	1	10%	1	SF			\$ -	\$ -	\$ -	\$ -	
66				TR-2: Replace damaged metal face factory laminated honeycomb wall panels and accessories w/ new. Panel to be manufactured by the original OEM	3	10%	3	SF			\$ -	\$ -	\$ -	\$ -	
67				TR-3: Replace damaged metal face factory laminated honeycomb wall panels and accessories w/ new. Panel to be manufactured by the original OEM	2	10%	2	SF			\$ -	\$ -	\$ -	\$ -	
68				TP-2: Replace damaged metal face factory laminated honeycomb wall panels and accessories w/ new. Panel to be manufactured by the original OEM	3	10%	3	SF			\$ -	\$ -	\$ -	\$ -	
69				BWS-1: Replace damaged metal face factory laminated honeycomb wall panels and accessories w/ new. Panel to be manufactured by the original OEM	1	10%	1	SF			\$ -	\$ -	\$ -	\$ -	
70				BR-1: Replace damaged metal face factory laminated honeycomb wall panels and accessories w/ new. Panel to be manufactured by the original OEM	1	10%	1	SF			\$ -	\$ -	\$ -	\$ -	

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71				ST-2: Replace damaged metal face factory laminated honeycomb wall panels and accessories w/ new. Panel to be manufactured by the original OEM	1	10%	1	SF			\$ -	\$ -	\$ -	\$ -		
72				ST-3: Replace damaged metal face factory laminated honeycomb wall panels and accessories w/ new. Panel to be manufactured by the original OEM	1	10%	1	SF			\$ -	\$ -	\$ -	\$ -		
73				WM-2: Replace damaged metal face factory laminated honeycomb wall panels and accessories w/ new. Panel to be manufactured by the original OEM	1	10%	1	SF			\$ -	\$ -	\$ -	\$ -		
74				WM-3: Replace damaged metal face factory laminated honeycomb wall panels and accessories w/ new. Panel to be manufactured by the original OEM	1	10%	1	SF			\$ -	\$ -	\$ -	\$ -		
<b>Terrace Waterproofing</b>																
75				Waterproofing membrane on single terrace floor	316	10%	348	SF			\$ -	\$ -	\$ -	\$ -		
76				Water proofing membrane on single terrace walls	171	10%	188	SF			\$ -	\$ -	\$ -	\$ -		
77				Waterproofing membrane on double terrace floor	1,260	10%	1,386	SF			\$ -	\$ -	\$ -	\$ -		
78				Water proofing membrane on double terrace walls	699	10%	769	SF			\$ -	\$ -	\$ -	\$ -		
79				Waterproofing membrane on tripple terrace floor	954	10%	1,049	SF			\$ -	\$ -	\$ -	\$ -		
80				Water proofing membrane on tripple terrace walls	526	10%	578	SF			\$ -	\$ -	\$ -	\$ -		
<b>Lighting Protection System</b>																
81				EXISTING AIR TERMINAL DEVICE TO BE REMOVED COMPLETELY. EXISTING 2/0 CONDUCTORS SERVING SAME TO BE REMOVED FROM ROOF COMPLETELY. CUT AND REMOVE CONDUCTORS TO 6" BELOW ROOF AND ABANDONED IN PLACE.	45	10%	50	LF			\$ -	\$ -	\$ -	\$ -		
82				NEW VERTICALLY MOUNTED AIR TERMINAL ON PARAPET SPACED 20 FEET MAXIMUM DISTANCE APART ALONG EDGE. REFER TO AIR TERMINAL DETAIL FOR REQUIREMENTS.	372	0%	372	EA			\$ -	\$ -	\$ -	\$ -		
83				NEW MID-ROOF AIR TERMINAL SPACED 50 FEET MAXIMUM DISTANCE APART SET IN MASTIC, NO ROOF PENETRATIONS ALLOWED.	76	0%	76	EA			\$ -	\$ -	\$ -	\$ -		
84				NEW AIR TERMINAL ON ACCESS HATCH WITH SADDLE BASE.	12	0%	12	EA			\$ -	\$ -	\$ -	\$ -		
85				NEW MAIN LIGHTNING CONDUCTOR.	1,284	10%	1,412	LF			\$ -	\$ -	\$ -	\$ -		
86				PROVIDE AND INSTALL ADHESIVE CABLE HOLDER EVERY 3 FEET MAXIMUM DISTANCE APART (OFF CENTER).	428	0%	428	EA			\$ -	\$ -	\$ -	\$ -		
87				NEW CABLE CONNECTOR, TYPICAL.	72	0%	72	EA			\$ -	\$ -	\$ -	\$ -		
88				NEW CABLE CLIP WITH STAINLESS STEEL SCREWS EVERY 3 FEET MAXIMUM SPACING APART (OFF CENTER).	428	0%	428	EA			\$ -	\$ -	\$ -	\$ -		
89				INSTALL NEW STRAP TYPE PIPE CLAMP ON EXISTING ROOF MANIFOLD. EXTEND NEW LIGHTING CONDUCTOR AND CONNECT TO NEW PIPE CLAMP.	187	0%	187	EA			\$ -	\$ -	\$ -	\$ -		
<b>SUB TOTAL</b>											<b>TOTAL MATERIAL COST</b>	<b>\$0</b>	<b>TOTAL LABOR COST</b>	<b>\$ -</b>		
<b>INSURANCE</b>													<b>0%</b>			
<b>OVERHEAD AND PROFIT</b>													<b>20%</b>			
<b>TOTAL BASE BID</b>																