

Connecticut				
Bid Item Number	Description of Cost Factors	Cost Evaluation Points	Unit of Measure	Offeror's Bid
9.1	Water Resistant Roofing			
9.1.1.a	Pressure cleaning, vertical walls	2	SF	\$ 0.20
9.1.1.b	Pressure cleaning, horizontal surfaces	2	SF	\$ 0.42
9.1.2	Asphalt emulsion coating, waterproofing, brush applied, per coat	4	SF	\$ 0.46
9.1.3	Rubberized coating waterproofing, brush applied, per coat	4	SF	\$ 0.55
9.1.4	Vinyl/acrylic resin, dampproofing, brush applied per coat.	4	SF	\$ 0.90
9.1.5	Non-pigmented synthetic resin, waterproofing, one coat sprayed on	4	SF	\$ 0.49
9.1.6	Caulking: remove existing, clean and prime joint	1	LF	\$ 1.22
9.1.7	Caulking, epoxied urethane compound, 2 component, 1/4" x 1/4", in place	1	LF	\$ 1.37
9.1.8	Caulking, polyurethane, 1 component, 1/4" x 1/4", in place	1	LF	\$ 1.42
9.1.9	Caulking, polyurethane, 1 component, 1/2" x 1/2", in place	1	LF	\$ 3.05
9.1.10	Caulking, silicone rubber, 1 component, 1/4" x 1/4", in place	1	LF	\$ 1.20
9.1.11.a	Caulking, epoxied urethane compound, 2 component, 1/4" x 1/4", in place	1	LF	\$ 2.42
9.1.11.b	Caulking, silicone rubber, 1 component, 3/4" x 3/8", in place	1	LF	\$ 1.72
9.1.12	Backer rod, polyethylene, 3/8" diameter, installed in prepared opening	2	LF	\$ 0.28
9.1.13	Backer rod, polyethylene, 1/2" diameter, installed in prepared opening	2	LF	\$ 0.45
9.1.14	Backer rod, polyethylene, 3/4" diameter, installed in prepared opening	2	LF	\$ 0.49
9.1.15	Backer rod, polyethylene, 1" diameter, installed in prepared opening	2	LF	\$ 0.56
9.1.16 a.	Building paper, asphalt felt sheathing paper, 1 ply, 15#, in place	2	SF	\$ 0.27
9.1.16 b.	Building paper, asphalt felt sheathing paper, 1 ply, 40#, in place	2	SF	\$ 0.22
9.1.17	Building paper, red rosin paper, 5 square rolls, 4#, in place	2	SF	\$ 0.17
9.1.18	Vapor retarder adhered, 2 ply inorganic, glass Type 15, applied in Type IV (or appropriate type) asphalt, in place	2	SF	\$ 0.70
9.1.19	Vapor retarder, 2 ply organic, Type 15 pound, applied in Type IV asphalt (or appropriate type), in place	2	SF	\$ 0.64

9.1.20	Vapor retarder; 2-ply inorganic, glass, Type IV, applied in cold adhesive to 4' x 8' x 1/4" glass-mat embedded, water resistant gypsum core panel mechanically fastened	2	SF	\$	1.68
9.2	Insulation				
9.2.1	Demolition of roof insulation, per inch of depth	6	SF	\$	0.64
9.2.2	Demolition of lightweight cementitious fills, per inch of depth	6	SF	\$	0.50
9.2.3	Roof deck insulation, Isocyanurate in 4' x 4' or 4' x 8' sheets with fiberglass facers, 1" thick, R-6.6, applied Type IV asphalt				
9.2.3.a	Hot applications	2	SF	\$	0.90
9.2.3.b	Cold applications	2	SF	\$	1.63
9.2.4	Roof deck insulation, Isocyanurate in 4' x 4' or 4' x 8' sheets with fiberglass facers, 1 1/2" thick, R-10.0, applied Type IV asphalt				
9.2.4.a	Hot applications	2	SF	\$	1.50
9.2.4.b	Cold applications	2	SF	\$	2.19
9.2.5	Roof deck insulation, Isocyanurate in 4' x 4' or 4' x 8' sheets, 1" thick, R-6.6, mechanically fastened	3	SF	\$	1.05
9.2.6	Roof deck insulation, Isocyanurate in 4' x 4' or 4' x 8' sheets with fiberglass facers, 1 1/2" thick, R-10.0, mechanically fastened	3	SF	\$	1.69
9.2.7	Roof deck insulation, fiberboard in 4' x 4' sheets, 1/2" thick, R-1.39, applied Type IV asphalt				
9.2.7.a	Hot applications	2	SF	\$	1.16
9.2.7.b	Cold applications	2	SF	\$	1.34
9.2.8	Roof deck insulation, fiberboard in 4' x 8' sheets, 25/32" thick, R-2.4, installed hot/cold or mechanically attached coated six sides				
9.2.8.a	Hot applications	1	SF	\$	0.73
9.2.8.b	Cold applications	1	SF	\$	0.92
9.2.8.c	Mechanically attached	1	SF	\$	0.76
9.2.9	Roof deck insulation, fiberboard in 4' x 4', 1" thick, R-2.78, applied Type IV asphalt (or appropriate asphalt), coated six sides				
9.2.9.a	Hot applications	2	SF	\$	0.69
9.2.9.b	Cold applications	2	SF	\$	1.10
9.2.10	Roof deck insulation, fiberboard in 4' x 4' sheets, 1/2" thick, R-1.39, mechanically fastened, coated six sides	3	SF	\$	0.76

9.2.11	Roof deck insulation, fiberboard in 4' x 4', 1" thick, R-2.78, mechanically fastened, coated six sides	3	SF	\$	0.59
9.2.12	Roof deck insulation, lightweight cellular wire reinforced concrete fill, R-value depending on thickness, per inch of depth	3	SF	\$	0.74
9.2.13	Roof deck insulation, vermiculite at 1/8:12, R-value depending on thickness, per inch of depth	3	SF	\$	2.78
9.2.14	Roof deck insulation, vermiculite at 1/4:12, R-value depending on thickness, per inch of depth	3	SF	\$	3.46
9.2.15	Roof deck insulation, gypsum panels, 3" thick	3	SF	\$	5.62
9.2.16	Roof deck insulation, Isocyanurate (black facer only), tapered, 1/8" per foot slope, Type IV asphalt, per inch of depth	3	SF	\$	1.43
9.2.17	Roof deck insulation, Isocyanurate (black facer only), tapered, 1/4" per foot slope, Type IV asphalt, per inch of depth	3	SF	\$	1.47
9.2.18	Cold insulation adhesive	2	SF	\$	0.99
9.2.19	CDX Gypsum, 1/4" x 4' x 8'				
9.2.19.a	Mechanically attached	2	SF	\$	1.01
9.2.19.b	Set into adhesive	2	SF	\$	1.64
9.2.20	CDX Gypsum, 1/2" x 4' x 8'				
9.2.20.a	Mechanically attached	2	SF	\$	1.29
9.2.20.b	Set into adhesive	2	SF	\$	2.01
9.2.21	CDX Gypsum with fiberglass, facer: 1/4" x 4' x 8'				
9.2.21.a	Mechanically attached	2	SF	\$	0.64
9.2.21.b	Set into adhesive	2	SF	\$	1.01
9.2.22	CDX Gypsum with fiberglass facer: 1/2" x 4' x 8'				
9.2.22.q	Mechanically attached	2	SF	\$	0.81
9.2.22.b	Set into adhesive	2	SF	\$	1.22
9.2.23	Installation of new Polyisocyanurate insulation				
9.2.23.a	Mechanically attached		BF	\$	1.60
9.2.23.b	Hot adhered		BF	\$	1.42
9.2.23.c	Cold adhered		BF	\$	2.15
9.2.24	Removal and replacement of existing insulation		BF	\$	1.04
9.3	Roof Tiles and Shingles				

9.3.1	Remove composition shingles and felts to decking	6	SF	\$	0.70
9.3.2	Test for asbestos prior to removal	6	Per Sample Tested	\$	96.00
9.3.3	Remove clay, concrete, or slate roof tiles to decking	6	SF	\$	1.05
9.3.4	Remove wood shingles and felts to decking	6	SF	\$	0.50
9.3.5	Shingles, fiberglass, Class A, 25-year strip shingles, slopes 3:12 or greater	4	SF	\$	1.56
9.3.6	Shingles, fiberglass, Class A, 30-year, premium laminated multilayered	4	SF	\$	2.36
9.3.7.a	Replace clay or concrete roof tiles	2	Each	\$	18.32
9.3.7.b	Replace/repair other shingles	2	Each	\$	10.88
9.3.8	Self-adhering ice and water shield membrane for shingles, tiles, metal waterways, penetrations, valleys, ridges, edges, etc.	2	SF	\$	2.32
9.4	Roofing and Roof Restoration				
9.4.1	Remove built-up roof, multi-ply aggregate, non-asbestos, 1" thick or less	6	SF	\$	1.05
9.4.2	Remove single-ply roof: ballast, and membrane only	4	SF	\$	1.28
9.4.3	Remove single-ply roof, membrane partially or fully adhered	4	SF	\$	1.28
9.4.4	Remove single-ply roof, membrane mechanically attached	3	SF	\$	1.47
9.4.5	Remove copper sheet roofing	4	SF	\$	0.51
9.4.6	Base sheet, 3-ply fiberglass, Type IV (or appropriate type) asphalt (17 year roof)	3	SF	\$	2.28
9.4.7	Base sheet, 4-ply fiberglass, mechanically attached (17-year roof)	3	SF	\$	2.10
9.4.8	Fiberglass cap finishing membrane	1	SF	\$	0.90
9.4.9	Base sheet with 2 ply, fiberglass felts, Type IV asphalt (or appropriate type)	3	SF	\$	2.11
9.4.10	Base sheet with 3 ply, fiberglass felts, Type IV asphalt (or appropriate type)	3	SF	\$	2.24
9.4.11	Base sheet mechanically attached with 4 ply, Type VI fiberglass felts, Type IV (or appropriate type) asphalt	3	SF	\$	2.36
9.4.12	Nail base sheet, 3 ply Type VI fiberglass felts, fiberglass cap, Type IV (or appropriate type) asphalt.	3	SF	\$	2.30
9.4.13	Base sheet with 4 ply; 2 polyester and 2 fiberglass felts, Type IV (or appropriate type) asphalt (20 year roof)	3	SF	\$	2.79

9.4.14	Built-up roof, base sheet with 3 ply polyester roofing sheet, Type IV (or appropriate type) asphalt (20 year roof)	3	SF	\$	2.11
9.4.15	Built-up roof, base sheet with 3 ply Type GS fiberglass, cold process adhesive (20 year roof)	3	SF	\$	3.47
9.4.16	Built-up roof base sheet plus 4 ply Type G2 fiberglass, cold process adhesive (30 year roof)	3	SF	\$	3.58
9.4.17	Built-up roof, base sheet, 1 ply Type VI fiberglass, 1 ply modified bitumen sheet, fire rated, Type IV asphalt (15 year roof)	3	SF	\$	4.38
9.4.18	Built-up roof, base sheet, 2 ply polyester roofing sheet, 1 ply modified bitumen sheet, fire rated, Type IV asphalt (or appropriate type) (20 year roof)	3	SF	\$	3.05
9.4.19	Built-up roof, base sheet, G-2, 33 lb., mechanically attached	3	SF	\$	0.70
9.4.20	Built-up roof, base sheet, G-2, 33 lb., Type IV asphalt	3	SF	\$	0.78
9.4.21	Built-up roof, premium asphalt, added cost per ply per square foot	1	SF	\$	0.10
9.4.22	Built-up roof, modified bitumen adhesive, added cost per ply per square foot	1	SF	\$	0.28
9.4.23	Built-up roof, surface with cold asphaltic surfacing adhesive and gravel	1	SF	\$	2.92
9.4.24	Built-up roof, surface with emulsion and granules	1	SF	\$	1.31
9.4.25	Built-up roof, surface with emulsion and aluminum coating	1	SF	\$	1.38
9.4.26	Built-up roof, surface with emulsion and white elastomeric coating	1	SF	\$	1.45
9.4.27	Built-up roof, surface with aluminum coating or paint	1	SF	\$	1.83
9.4.28	Built-up roofing, surface with high solids white elastomeric coating	1	SF	\$	3.52
9.4.29	Built-up roofing repairs; fibered asphalt mastic, brush grade, with fiberglass mesh.	3	SF	\$	3.64
9.4.30	Built-up roofing repairs; pitch-based mastic, with fiberglass mesh	3	SF	\$	3.64
9.4.31	Built-up roofing repairs; elastomeric mastic, with fiberglass mesh	3	SF	\$	5.45
9.4.32	Built-up roofing restoration, coal tar pitch roofs	3	SF	\$	3.65
9.4.33	Built-up roofing restoration, odorless, coal tar pitch or asphalt roofs	3	SF	\$	2.66
9.4.34	Single-ply roof, CSPE, 45 mils reinforced, asbestos free, mechanically fastened	3	SF	\$	3.05
9.4.35	Single-ply roof, CSPE, 60 mils reinforced, asbestos free, mechanically fastened	4	SF	\$	3.24
9.4.36	Single-ply roofing repairs (CSPE, PVC, and EPDM)				
9.4.36a	CSPE	1	SF	\$	2.84

9.4.36b	PVC	1	SF	\$	2.83
9.4.36c	EPDM	1	SF	\$	2.42
9.4.37	Flashing membrane, 2 ply, Type IV or Type VI fiberglass	1	SF	\$	2.36
9.4.38	Flashing membrane, 1 ply polyester and 1 ply modified bitumen	1	SF	\$	3.97
9.4.39	Flashing membrane, 2 ply, polyester	1	SF	\$	3.38
9.4.40	Flashing membrane, CSPE	1	SF	\$	6.16
9.4.41	Flashing membrane, CSPE with aluminum coating	1	SF	\$	9.70
9.4.42	Polyurethane foam roofing	6	SF	\$	4.38
9.4.43	Additional Polyurethane foam coating	2	SF	\$	2.92
9.4.44	Single-ply roof, EDPM, 45 mils reinforced, mechanically fastened	3	SF	\$	3.03
9.4.45	Single-ply roof, EDPM, 60 mils fully adhered	3	SF	\$	3.40
9.4.46	Built-up roof, base sheet with 3 ply trillaminate ply, cold process adhesive (25 year roof)	3	SF	\$	3.47
9.4.47	Built-up roof, surface with premium asphalt, and gravel.	2	SF	\$	0.60
9.4.48	Built-up roof, surface with Fire Retardent Aluminum coating or paint, single coat	2	SF	\$	1.64
9.4.49	Modified Bitumen roof, base sheet, cap sheet, cold Modified Bitumen Adhesive	3	SF	\$	4.60
9.4.50	Built-up roof, 3 ply fiberglass felts, Type IV asphalt	3	SF	\$	2.65
9.4.51	Single ply Roof, 45 mils fully adhered with bonding adhesive	3	SF	\$	4.86
9.4.52	Single ply roof, TPA Fleece Back, 45 mils fully adhered with hot asphalt	3	SF	\$	4.86
9.4.53	Single ply roof, 45 mils mechanically attached	3	SF	\$	2.24
9.4.54	Base sheet mechanically attached with 3 ply fiberglass felts, Type 1 - Coal Tar Pitch	3	SF	\$	3.67
9.4.55	Base sheet mechanically attached with 3 ply Organic felts, Type 1 - Coal Tar Pitch	2	SF	\$	3.46
9.4.56	Built-up roof, 4 ply Fiberglass felts, Type 1 Coal Tar Pitch	2	SF	\$	3.57
9.4.57	Built-up roof, 4 ply Organic felts, Type 1 Coal Tar Pitch	2	SF	\$	3.34
9.4.58	Built-up roof, surface with hot Coal Tar Pitch and gravel	2	SF	\$	2.11
9.4.59	Single ply repairs using 2 coat polyurethane, elastomeric coating system	2	SF	\$	4.30

9.4.60	Single ply repairs at laps or defects using 2 coats elastomeric coating system with reinforcement	2	SF	\$	4.60
9.4.61	Single ply roof, TPA fleece back, 60 mils fully adhered with hot asphalt	2	SF	\$	5.75
9.4.62	Single ply roof 60 mils fully adhered with bonding adhesive	2	SF	\$	5.75
9.4.63	Built-up roof, 1 ply Trilaminate, 1 ply Modified Bitumen Sheet, fire rated	2	SF	\$	2.55
9.4.64	TPO 60 mil system installation				
9.4.64.a	Bonding adhesive		SF	\$	4.80
9.4.64.b	Mechanically attached		SF	\$	4.03
9.4.64.c	Hot applied		SF	\$	4.66
9.4.65	Fire Rated Modified Bitumen Cap Sheet		SF	\$	2.30
9.4.66	Sweep loose aggregate from roof membrane		SF	\$	0.51
9.4.67	Wet Vacuum loose aggregate from roof membrane		SF	\$	0.59
9.4.68	Prime Substrate		SF	\$	0.35
9.4.69	Flashing membrane, 1 ply fiberglass and 1 ply modified bitumen fire rated		SF	\$	4.48
9.4.70	Disaster Response Repairs		%		25%
9.4.71	Built-Up Roof 3 Plies Trilaminate Sheet Cold Process Adhesive		SF	\$	3.51
9.4.72	Modified Cap Sheet, Fire Rated, energy star rated white acrylic coating in White Cold Adhesive (Title 24 Compliant)		SF	\$	4.42
9.4.73	Built Up Roof Surface w/ Cold Process White Highly Reflective Adhesive and White Marble Gravel (Title 24)		SF	\$	6.27
9.5	Masonry				
9.5.1	Brick, remove and reset, 1 to 50 sq ft	3	SF	\$	30.22
9.5.2	Brick, remove and reset, over 50 sq ft	3	SF	\$	24.42
9.5.3	Block, remove and reset	3	SF	\$	25.46
9.5.4	Coping stones, remove and reset	2	Each	\$	60.62
9.5.5	Brick, block or coping removal	6	Each	\$	23.91
9.5.6	Brick, block and brick exterior wall maintenance, repair and application of protective coatings.				
9.5.6.1	Brick, Remove and install new standard brick		EA	\$	36.21
9.5.6.2	Selective Demolition of Concrete Block Masonry Units (CMU) with perimeter saw cutting - swingstage 4", 6" and 8" block (high-rise)	4	Each	\$	14.62
9.5.6.3	Selective Demolition of Brick Masonry Units with perimeter saw cutting - swingstage one, two, and three wythe (high-rise)	4	SF	\$	52.39

9.5.6.4	Selective Demolition of Brick Masonry Units with perimeter saw cutting - scaffolding one, two and three wythe (low-rise)	4	SF	\$	37.18
9.5.6.5	Selective Demolition of Mortar Joint with Perimeter Sawcutting – Swingstage (high-rise)				
9.5.6.5.a	Removal of existing mortar (1/2" wide by 3/4" depth)	2	SF	\$	6.76
9.5.6.5.b	Removal of existing mortar (3/4" wide by 3/4" depth)	2	SF	\$	8.45
9.5.6.5.c	Removal of existing mortar (1/2" wide by 1 1/2" depth)	2	SF	\$	9.29
9.5.6.5.d	Removal of existing mortar (3/4" wide by 1 1/2" depth)	2	SF	\$	11.83
9.5.6.6	Selective Demolition of Mortar Joint with Perimeter Sawcutting – Scaffolding (low-rise)				
9.5.6.6.a	Removal of existing mortar (1/2" wide by 3/4" depth)	2	SF	\$	5.07
9.5.6.6.b	Removal of existing mortar (3/4" wide by 3/4" depth)	2	SF	\$	6.76
9.5.6.6.c	Removal of existing mortar (1/2" wide by 1 1/2" depth)	2	SF	\$	8.03
9.5.6.6.d	Removal of existing mortar (3/4" wide by 1 1/2" depth)	2	SF	\$	10.57
9.5.6.7	New Pointing Work – Swingstage (high-rise)				
9.5.6.7.a	Furnish and install new mortar (1/2" wide by 3/4" depth)	2	SF	\$	10.14
9.5.6.7.b	Furnish and install new mortar (3/4" wide by 3/4" depth)	2	SF	\$	11.49
9.5.6.7.c	Furnish and install new mortar (1/2" wide by 1 1/2" depth)	2	SF	\$	11.15
9.5.6.7.d	Furnish and install new mortar (3/4" wide by 1 1/2" depth)	2	SF	\$	13.18
9.5.6.8	New Pointing Work – Scaffolding (low-rise)				
9.5.6.8.a	Furnish and install new mortar (1/2" wide by 3/4" depth)	2	SF	\$	8.12
9.5.6.8.b	Furnish and install new mortar (3/4" wide by 3/4" depth)	2	SF	\$	9.13
9.5.6.8.c	Furnish and install new mortar (1/2" wide by 1 1/2" depth)	2	SF	\$	9.46
9.5.6.8.d	Furnish and install new mortar (3/4" wide by 1 1/2" depth)	2	SF	\$	10.83
9.5.6.9	Removal of Roof Parapets – Swingstage (high-rise)				
9.5.6.9.a	Removal of 3 wythe brick parapet wall (24" high)	3	LF	\$	156.30
9.5.6.9.b	Removal of 3 wythe brick parapet wall (42" high)	3	LF	\$	274.60
9.5.6.9.c	Removal of 2 wythe brick parapet wall (24" high)	3	LF	\$	130.97
9.5.6.9.d	Removal of 3 wythe brick parapet wall (42" high)	3	LF	\$	240.81
9.5.6.10	Removal of Roof Parapets – Scaffolding (low-rise)				
9.5.6.10.a	Removal of 3 wythe brick parapet wall (24" high)	3	LF	\$	105.63
9.5.6.10.b	Removal of 3 wythe brick parapet wall (42" high)	3	LF	\$	190.11
9.5.6.10.c	Removal of 2 wythe brick parapet wall (24" high)	3	LF	\$	88.72
9.5.6.10.d	Removal of 3 wythe brick parapet wall (42" high)	3	LF	\$	177.43
9.5.6.11	Reconstruction of Brick Masonry Roof Parapets – Swingstage (high-rise)				
9.5.6.11.a	New brick masonry parapet w/stone coping and flashings (3 wythe - 24" high)	3	LF	\$	462.26
9.5.6.11.b	New brick masonry parapet w/stone coping and flashings (3 wythe - 42" high)	3	LF	\$	583.82
9.5.6.11.c	New brick masonry parapet w/stone coping and flashings (2 wythe - 24" high)	3	LF	\$	343.13

9.5.6.11.d	New brick masonry parapet w/stone coping and flashings (2 wythe - 42" high)	3	LF	\$	427.15
9.5.6.12	Reconstruction of Brick Masonry Roof Parapets – Scaffolding (low-rise)				
9.5.6.12.a	New brick masonry parapet w/stone coping and flashings (3 wythe - 24" high)	3	LF	\$	295.73
9.5.6.12.b	b) New brick masonry parapet w/stone coping and flashings (3 wythe - 42" high)	3	LF	\$	401.36
9.5.6.12.c	c) New brick masonry parapet w/stone coping and flashings (2 wythe - 24" high)	3	LF	\$	211.23
9.5.6.12.d	d) New brick masonry parapet w/stone coping and flashings (2 wythe - 42" high)	3	LF	\$	309.16
9.5.6.13	New Throughwall Flashings – Swingstage (high-rise)				
9.5.6.13.a	Removal of 4 courses 1 wythe brick wall w/Temporary Shoring	1	LF	\$	133.96
9.5.6.13.b	Removal and replacement of steel lintel	1	LF	\$	67.58
9.5.6.13.c	Furnish and install new flashings (Bituthane)	1	LF	\$	21.12
9.5.6.13.d	Furnish and install new flashings (Lead coated copper)	1	LF	\$	38.03
9.5.6.13.e	Parging and waterproofing of back-up wall	1	LF	\$	29.57
9.5.6.14	New Throughwall Flashings – Scaffolding (low-rise)				
9.5.6.14.a	Removal of 4 courses 1 wythe brick wall w/Temporary Shoring	1	LF	\$	107.90
9.5.6.14.b	Removal and replacement of steel lintel	1	LF	\$	63.36
9.5.6.14.c	Furnish and install new flashings (Bituthane)	1	LF	\$	16.91
9.5.6.14.d	Furnish and install new flashings (Lead coated copper)	1	LF	\$	33.79
9.5.6.14.e	Parging and waterproofing of back-up wall	1	SF	\$	23.67
9.5.6.15	Brick Masonry/Stone Stabilization				
9.5.6.15.a	Drilling and installation of new friction pins with mortar cap	1	Each	\$	29.57
9.5.6.15.b	Drilling and installation of new friction pins for lime stone with mortar cap	1	Each	\$	46.48
9.5.6.16	Limestone Removal and Replacement.				
9.5.6.16.a	Removal of existing deteriorated architectural limestone	2	SF	\$	105.63
9.5.6.19.b	Furnish and install new limestone replacement.	2	SF	\$	304.61
9.5.6.16.c	Replacement of stone with lightweight polymer resin to match	2	SF	\$	122.50
9.5.6.16.d	Minor patching of existing stone to match	2	SF	\$	195.30
9.5.6.17	Terra Cotta Removal and Replacement.				
9.5.6.17.a	Removal of existing deteriorated architectural Terra Cotta	2	SF	\$	105.63
9.5.6.17.b	Furnish and install new Terra Cotta replacement.	2	SF	\$	337.97
9.5.6.17.c	Replacement of stone with lightweight polymer resin to match	2	SF	\$	122.50
9.5.6.17.d	Minor patching of existing stone to match	2	SF	\$	195.30
9.5.6.18	Roof Coping Stones.				
9.5.6.18.a	Removal of existing roof coping stones (16 inches)	1	LF	\$	105.63
9.5.6.18.b	Removal and parging of existing substrate	1	SF	\$	24.91
9.5.6.18.c	Furnish and install new lead coated copper flashings	1	LF	\$	33.79
9.5.6.18.d	Drilling and epoxy grouting stainless steel pins	1	Each	\$	30.73
9.5.6.18.e	Reinstallation of existing stones with cleaning	1	LF	\$	61.11
9.5.6.18.f	Furnish and install new coping stones	1	LF	\$	139.42

9.5.6.18.g	Furnish and install new sealants between coping stones.	1	SF	\$	10.69
9.5.6.18.h	Cleaning and coating of existing stones.	1	SF	\$	11.92
9.5.6.19	CMU Backup Wall Repair and Waterproofing.				
9.5.6.19.a	Replacement of Deteriorated CMU Back-up	2	SF	\$	71.82
9.5.6.19.b	Parging of CMU back-up wal	2	SF	\$	18.06
9.5.6.19.c	Waterproofing of back-up wall	2	SF	\$	10.34
9.5.6.20	Brick Masonry Piers				
9.5.6.20.a	Isolated repair of existing masonry piers (removal and replacement)	2	SF	\$	190.11
9.5.6.20.b	Reconstruction of isolated areas of pier	2	SF	\$	171.33
9.5.6.20.c	Construction of new masonry piers.	2	SF	\$	137.25
9.5.6.21	Crack Repair				
9.5.6.21.a	Drill and install new stainless steel pins.	1	Each	\$	30.73
9.5.6.21.b	Grouting of open cracks	1	LF	\$	21.12
9.5.6.21.c	Replacement of cracked bricks	1	Each	\$	42.24
9.5.6.22	Concrete Removal				
9.5.6.22.a	Perimeter sawcutting	1	LF	\$	2.11
9.5.6.22.b	Removal of existing concrete (2" depth).	1	SF	\$	29.57
9.5.6.22.c	Removal of existing concrete (3.5" depth).	1	SF	\$	38.03
9.5.6.23	New Concrete and Coating				
9.5.6.23.a	Placement of new high strength patching mortar (2" depth)	1	SF	\$	105.63
9.5.6.23.b	Placement of new high strength patching mortar (3.5" depth).	1	SF	\$	118.30
9.5.6.23.c	Cleaning and coating of concrete surface.	1	SF	\$	10.14
9.5.6.24	Sidewalk Bridging.	2	SF	\$	337.97
9.5.6.25	Temporary Roof Protection	2	SF	\$	2.11
9.6	Metal Work				
9.6.1	Remove standard metal decking	4	SF	\$	2.42
9.6.2	Install metal decking; 1-1/2" deep, 20 gauge, standard profile	3	SF	\$	5.13
9.6.3	Install steel plate, two sizes	3	SF	\$	4.89
9.6.3.1	10 Gauge, standard application	3	SF	\$	4.89
9.6.3.2	Extra heavy-duty 1/4th inch	3	SF	\$	5.48
9.6.4	Remove metal counterflashing	2	LF	\$	2.25
9.6.5	Counterflashing, galvanized, 24 gauge, 6" width	2	LF	\$	4.36
9.6.6	Counterflashing, copper, 16 oz., 6" width	2	LF	\$	3.57
9.6.7	Remove metal edge, gravel stop, eave strip, or coping	2	LF	\$	1.88
9.6.8	Metal edge raised, galvanized steel fascia/eave drip; 6" face, hemmed, continuous cleat, 3" deck flange	2	LF	\$	6.23
9.6.9	Gravel stop, galvanized steel, 24 gauge, 6" face	2	LF	\$	7.08
9.6.10	Remove metal gutter	2	LF	\$	3.35

9.6.11	Gutter, galvanized steel, ASTM 526, with 12.5oz./square foot galvanized coating, 24 gauge, 5" box or ogee style, joints and end caps shall be soldered	2	LF	\$	19.32
9.6.12	Gutter, aluminum, .050" thick 5" box or ogee, painted, Kynar finish	2	LF	\$	25.54
9.6.13	Gutter, copper, 16 oz, half round, 5" wide	2	LF	\$	18.32
9.6.14	Gutter, copper, 16 oz, half round, 6" wide	2	LF	\$	21.53
9.6.15	Remove metal downspouts	2	LF	\$	2.85
9.6.16	Downspouts, aluminum, .024" thick, 3" x 4", painted, installed	2	LF	\$	18.89
9.6.17	Downspouts, GI, 24 gauge 3" x 4" installed	2	LF	\$	24.51
9.6.18	Downspouts, GI, 24 gauge, 4" round, installed	2	LF	\$	18.65
9.6.19	Downspouts, copper, 16 oz., 6" round, installed	2	LF	\$	20.60
9.6.20	Downspouts, strainer	2	Each	\$	6.95
9.6.21	Metal flashing, apron flashing, 9" wide	2	LF	\$	5.30
9.6.22	Metal flashing, step flashing	2	Each	\$	9.16
9.6.23	Metal splash pan, 16 oz.	2	Each	\$	20.45
9.6.24	Metal trim, aluminum, .032" thick, painted	2	SF	\$	4.34
9.6.25	Metal storm collar	2	Each	\$	33.37
9.6.26	Metal coping, galvanized steel, 24 gauge, standing seam	2	SF	\$	15.99
9.6.27	Metal coping, galvanized steel, 24 gauge, with butt plate	2	SF	\$	15.41
9.6.28	Resolder joints in sheet metal	1	LF	\$	3.65
9.6.29	Metal edge, aluminum, 0.50 thick 6" face painted	2	SF	\$	19.24
9.6.30	Metal edge, aluminum, free floating fascia system	2	SF	\$	26.66
9.6.31	Parapet wall metal	2	SF	\$	11.76
9.6.32	Metal edge, anodized finished aluminum, free floating fascia system 8 inches	2	SF	\$	47.80
9.6.33	Metal edge, high performance fluorocarbon finished aluminum, free floating fascia system 8 inches	2	SF	\$	21.63
9.6.34	Metal edge, anodized finished aluminum, free floating fascia system 6 inches	2	SF	\$	19.24
9.6.35	Metal edge, high performance fluorocarbon finished aluminum, free floating fascia system 6 inches	2	SF	\$	16.83
9.6.36	New Aluminum Metal Cladding				
9.6.36.a	Furnish and install new uninsulated aluminum wall cladding	1	SF	\$	21.12

9.6.36.b	Furnish and install new insulated aluminum wall cladding	1	SF	\$	46.48
9.6.36.c	Furnish and install new insulated aluminum wall cladding panels (Architecture)	1	SF	\$	63.36
9.6.36.d	Cladding of roof parapet walls with copings.	1	SF	\$	42.56
9.6.37	New Exterior Insulation and Finish System (EIFS)				
9.6.37.a	New Exterior Insulation and Finish System (EIFS)	2	SF	\$	29.57
9.6.37.b	New Exterior Insulation Finish System (EIFS) w/o insulation	2	SF	\$	18.24
9.6.38	New Metal Copings.	2	SF	\$	15.99
9.6.39	Surface Preparation				
9.6.39.a	Cleaning of existing steel and surface.	2	SF	\$	16.91
9.6.39.b	Coating of existing reinforcement	2	SF	\$	21.12
9.6.40	Exterior rated gypsum board sheathing and substrate	2	SF	\$	3.65
9.6.41	EIFS Repair		SF	\$	25.60
9.7	Woodwork				
9.7.1	Demolition of plywood or standard 1" x 6" decking	3	SF	\$	1.18
9.7.2	Demolition of standard 2" x 6" tongue and groove decking	3	SF	\$	1.25
9.7.3	Plywood decking, CDX, 1/2" thick (or 15/32" optional)	3	SF	\$	2.68
9.7.4	Plywood decking, CDX, 5/8" thick	3	SF	\$	2.23
9.7.5	Plywood decking, CDX, 3/4" thick	3	SF	\$	2.51
9.7.6	Standard 1" x 6" decking, tongue and groove	3	SF	\$	2.23
9.7.7	Standard 2" x 6" tongue and groove decking	3	SF	\$	4.22
9.7.8	Cants, wood fiber, trapezoidal, 1 1/2" x 5 5/8"	1	LF	\$	0.73
9.7.9	Cants, SBX treated wood, 4" x 4" diagonal	1	LF	\$	2.60
9.7.10	Nailer, SBX treated wood, 1" x 4"	1	LF	\$	1.11
9.7.11	Nailer, SBX treated wood, 2" x 4"	1	LF	\$	1.64
9.7.12	Nailer, SBX treated wood				
9.7.12a	2" x 6"	1	LF	\$	2.41
9.7.12b	2" x 8" optional	1	LF	\$	2.56
9.7.13	Curbing, SBX treated wood, 2" x 12"	1	LF	\$	4.40
9.7.14	Joist, fir				
9.7.14a	2" x 6"	1	LF	\$	4.35
9.7.14b	2" x 8" optional	1	LF	\$	4.79
9.7.15	Joist, fir				

9.7.15a	2" x 10"	1	LF	\$	4.94
9.7.15b	2" x 12" optional	1	LF	\$	5.86
9.8	Standing Seam Metal Roof System (SSMRS) Price Each Specification Using Line Items				
9.8.1	Pre-Engineered SSMRS, products (20-year roof)	6	SF	\$	5.67
9.8.2	Subpurlins	4	LF	\$	6.76
9.8.3	Roof panel installation	4	SF	\$	5.00
9.8.4	Field forming of panels	6	SF	\$	3.96
9.8.5	Concealed anchor clips	2	Each	\$	2.01
9.8.6	Vapor retarder installation	2	SF	\$	1.63
9.8.7	Insulation installation	6	SF	\$	5.04
9.8.8a	Gutters (SSMRS only)	2	LF	\$	21.76
9.8.8b	Gutter liners	2	SF	\$	14.72
9.8.9	Flashing	2	LF	\$	10.56
9.8.10	Expansion joints	2	LF	\$	25.55
9.8.11	Finishing touches (no additional cost in contract)				
9.8.12	Snow retention assemblies	2	LF	\$	1.56
9.8.13	Self-adhering ice and water shield membrane for shingles, tiles, metal waterways, penetrations, valleys, ridges, edges, etc.	2	LF	\$	2.32
9.8.14	Metal Roof Removal		SF	\$	1.78
9.9	Roof Specialties and Accessories				
9.9.1	Remove roof hatch	3	Each	\$	214.50
9.9.2	Roof hatch, aluminum, 2'6" x 3'0"	2	Each	\$	663.94
9.9.3	Roof hatch, aluminum, larger sizes	2	SF	\$	57.23
9.9.4	Remove existing roof drain, except plumbing	3	Each	\$	326.86
9.9.5a	Install new roof 4" drain, except plumbing	2	Each	\$	1,450.91
9.9.5b	Install new roof 6" drain, except plumbing	2	Each	\$	1,595.89
9.9.6	Reflash existing roof drain	1	Each	\$	201.23
9.9.7	Plumbing stack, 4# lead flashing	1	Each	\$	88.47
9.9.8	Scupper, sheet steel, 24 gauge ASTM A 526, match existing configuration	2	Each	\$	158.22
9.9.9	Remove existing walkway, built-up roofs	3	SF	\$	0.56
9.9.10	Walkway, built-up roofs, desert tan fiberglass	3	LF	\$	1.65

9.9.11	Walkway, built up roofs, non skid	3	LF	\$	4.67
9.9.12	Walkway, single ply roof				
9.9.12a	30" wide roll goods, tape attached	2	LF	\$	3.43
9.9.12.b	30" wide roll, hot asphalt attached	2	LF	\$	3.97
9.9.12c	30" wide roll, adhesive attached	2	LF	\$	4.01
9.9.13	Roof ventilators	2	Each	\$	152.37
9.9.14	Roof ladder, steel, bolted to concrete, up to 20 feet, without cage	2	LF	\$	93.76
9.9.15	Roof ladder, steel, bolted to concrete, 20 feet and up, with cage; with intermediate landings as required by Code	2	LF	\$	114.59
9.9.16	Roof ladder, security ladder guard	2	Each	\$	147.10
9.9.17	Termination bar, aluminum, 1/4" x 1"	1	LF	\$	3.30
9.9.18	Pitch pocket, 24 gauge, GI, 6" x 6", with storm collar hemmed to outside, soldered corners and seams	1	Each	\$	132.71
9.9.19	Pitch pocket, 24 gauge, GI, 8" x 8", with storm collar, hemmed to outside, soldered corners and seams	1	Each	\$	145.18
9.9.20	Pitch pocket, resurface top only				
9.9.20a	8" x 8"	1	Each	\$	19.05
9.9.20b	12" x 12"	1	Each	\$	22.37
9.9.21	Expansion joint, butyl or neoprene bellows, galvanized flange	2	LF	\$	26.56
9.9.22	Expansion joint, CSPE reinforced	2	LF	\$	20.43
9.9.23	Repair kit for dry repairs	6	Each	\$	118.41
9.9.24	Repair kit for wet repairs	6	Each	\$	111.18
9.9.25	Skylights (price each size and lens combination)				
9.9.25a	Standard 3' x 5', 4' x 4', 4' x 8' with single clear lenses	2	SF	\$	20.72
9.9.25b	Standard 3' x 5', 4' x 4', 4' x 8' with clear double lenses	2	SF	\$	36.65
9.9.25c	Skylight lense replacement only, clear	1	SF	\$	13.99
9.9.25d	Skylight lense replacement only, double clear	1	SF	\$	21.93
9.9.26	Security/fall bars for skylights				
9.9.26a	3' x 5'	1	Each	\$	454.13
9.9.26b	4' x 4'	1	Each	\$	453.04
9.9.26c	4' x 8'	1	Each	\$	660.56
9.9.26d	Special sizes	1	SF	\$	26.43

9.1	Roof Services			
9.10.1	Asbestos core testing and patch of existing roof surface	5	Each	\$ 96.00
9.10.2	Core analysis, 14" x 14" and patch of existing roof surface	5	Each	\$ 418.66
9.10.3a	Non destructive roof scan, up to 50,000 sq ft, full service each	5	Each	\$ 2,613.64
9.10.3b	Additional foot over 50,000 sq ft	2	SF	\$ 0.03
9.10.4a	Non destructive roof scan, up to 50,000 sq ft, limited service	5	Each	\$ 2,519.81
9.10.4b	Additional foot over 50,000 sq ft	2	SF	\$ 0.03
9.10.5	Roof inspection services (visual inspection of roofing service/membrane, flashings, counterflashings, copings, parapets, trims, hatches, penetrations, curbs, roof-mounted equipment, etc. with a written report of findings and recommendations	6	Day	\$ 820.40
9.10.6	Field/shop drawings, up to 10,000 sq ft	2	SF	\$ 0.05
9.10.7	Field/shop drawings, 10,000-50,000 sq ft	2	SF	\$ 0.05
9.10.8	Field/shop drawings, over 50,000 sq ft	2	SF	\$ 0.05
9.10.9	Prime contractor's warranty, restoration, less than 10,000 sq ft, minimum charge	6	SF	\$ 0.05
9.10.10	Prime contractor's warranty, restoration, over 10,000 sq ft, minimum charge	6	SF	\$ 0.05
9.10.11a	Prime contractor's warranty, re-roof, total system, 20 year, less than 10,000 sq ft, minimum charge (Standard)	10	SF	\$ 0.10
9.10.11b	Prime contractor's warranty, re-roof, total system, 20 year, less than 10,000 sq ft, minimum charge (includes 2, 5, 7, 10, 15 year inspections)	15	SF	\$ 0.20
9.10.12a	Prime contractor's warranty, re-roof, total system, 20 year, more than 10,000 sq ft, minimum charge (Standard)	10	SF	\$ 0.10
9.10.12b	Prime contractor's warranty, re-roof, total system, 20 year, more than 10,000 sq ft, minimum charge (includes 2, 5, 7, 10, 15 year inspections)	15	SF	\$ 0.20
9.10.13	Per diem rate per worker per 24 hour period of time	5	Per Day	\$ 52.30
9.10.14	Prime contractors per diem/costs for asbestos abatement planning	4	Day	\$ 60.80
9.10.15a	Asbestos abatement activities, BUR removal and disposal of waste	4	SF	\$ 1.89
9.10.15b	Project site is located 65 or more miles from the contractor's/subcontractor's yard/home location.	4	SF	\$ 1.92
9.10.16	Asbestos site monitoring	2	Day	\$ 492.52
9.10.17	Annual or semi-annual roof housekeeping-per location			
9.10.17a	Cost once a year per location if less than 20,000 sq. ft.	5	SF	\$ 0.16

9.10.17b	Cost per Sq.ft. per year per location if greater than 20,000 sq.ft.	5	SF	\$	0.09
9.10.17c	Cost semi-annual per location if less than 20,000 sq. ft	5	SF	\$	0.24
9.10.17d	Cost per Sq.ft. semi annual per location if greater than 20,000 sq.ft.	5	SF	\$	0.16
9.10.18	Roof leak investigation	5	Day	\$	547.20
9.10.19	Minor roof repair calls	5	Day	\$	904.33
9.10.21	Excessive hauling	2	Each	\$	182.40
9.10.22	Work in secured areas or compounds; surcharge	3	Percentage		18.00%
9.11	Additional and occasional supplies, materials, equipment and services				
9.11.1	Additional and occasional services Roofing supplies Discount off Retail Price List	15	% of Discount		13.30%
9.11.2a	Alternative Methods of Costing - percent of overhead/markup and profit added to cost	9	% of O/P		28.00%
9.11.2.b	Discounts Offered Off Alternative Costing Methods (cost plus profit and overhead) Less Rate of Discount	6	% of discount		6.00%
9.11.2c	Multiplier/factor to be applied to the R.S. Means costs.	9	% to be applied		98.00%
9.11.3	Deducts and add-ons for in lieu products (Place behind Tab 6)				
9.11.4	Special Rental Equipment (Priced based on 9.11.2 above)				
9.11.5	Cold and bad weather storage identify extra cost if any	2	Day		No Charge
9.11.6	Hourly Services Rates				
9.11.6.2	Structural Analysis/engineering services	5	Per Hour	\$	190.92
9.11.6.3	Architect/design professional services	4	Per Hour	\$	134.40
9.11.6.4	Roofing Consultant	8	Per Hour	\$	100.80
9.11.6.5	Labor Rate for Roofer	8	Per Hour	\$	100.80
9.12.1	Multiplication factor for roofs under 20,000 sf		%		15%
9.12.2	Multiplication factor for roofs under 10,000 sf		%		18%
9.13.1	Difficult access or fall restriction; surcharge		%		15%
9.14.1	Emergency Leak Repair per 1/2 Man Day (repairs made M-F 8am-6pm 2-4 hr response)		Each	\$	1,104.64
9.14.1.a	Warranty 10 year option roofs under 10,000 sq ft minimum charge (Standard)		Each	\$	700.00
9.14.1.b	Warranty 10 year option roofs under 10,000 sq ft minimum charge with inspections year 2 & 5		Each	\$	1,000.00
9.15.1.a	Warranty 10 year option roofs over 10,000 sq ft (Standard)		SF	\$	0.07
9.15.1.b	Warranty 10 year option roofs over 10,000 sq ft with inspections year 2 & 5		SF	\$	0.10
9.16.1.a	Warranty 15 year option roofs under 10,000 sq ft minimum charge (Standard)		Each	\$	900.00
9.16.1.b	Warranty 15 year option roofs under 10,000 sq ft		Each	\$	1,500.00

9.17.1.a	Warranty 15 year option roofs over 10,000 sq ft minimum charge with inspections year 2, 5 & 10		SF	\$	0.09
9.17.1.b	Warranty 15 year option roofs over 10,000 sq ft with inspections year 2, 5 & 10		SF	\$	0.15
9.18.1	Photovoltaic - Thin Film Panels		Watt	\$	12.16
9.18.2	Roof Coating - high solids, waterbased, heavy bodied elastomeric coating formulated with an acrylic latex polymer and utilizes nano technology		SF	\$	4.81
9.18.3	Roof Coating - high solids, waterbased, heavy bodied elastomeric coating formulated with an acrylic latex polymer and utilizes nano technology w/trilaminate reinforcing		SF	\$	5.36
9.19	GREEN SUSTAINABLE ROOFING				
9.19.1.a	Roof Protection Mat		SF	\$	1.46
9.19.1.b	Roof Root Barrier		SF	\$	2.64
9.20	DRAINAGE LAYER				
9.20.1.a	1/2" Drainage Layer		SF	\$	5.76
9.20.1.b	1" Drainage Layer		SF	\$	6.73
9.20.1.c	Aeration Layer		SF	\$	5.04
9.20.1.d	Moisture retention Layer		SF	\$	2.52
9.20.1.e	Reservoir Layer		SF	\$	8.40
9.20.1.f	Filter Fabric		SF	\$	2.29
9.20.1.g	Irrigation and Controls		SF	\$	1.25
9.20.1.h	Slotted Edge Material		LF	\$	35.28
9.20.1.i	Growing Media/ Engineered Soil, 1" Depth		SF	\$	3.44
9.21	LANDSCAPE PLANTS, SEDUMS				
9.21.1.a	Landscape Plants, Sedums, Cuttings		SF	\$	10.09
9.21.1.b	Landscape Plants, Sedums, Plugs		SF	\$	13.44
9.21.1.c	Landscape Plants, #1 Container Standard Perennial		EA	\$	17.32
9.21.1.d	Landscape Plants, #2 Container Standard Perennial		EA	\$	32.76
9.21.1.e	Landscape Plants, #1 Container Standard Shrub		EA	\$	26.88
9.21.1.f	Landscape Plants, #2 Container Standard Shrub		EA	\$	48.72
9.21.1.g	Inspection Boxes		EA	\$	327.60
9.21.1.h	Leak Detection Systems Min. Charge \$4,900.00 (10,000 SF)		SF	\$	0.63
9.21.1.i	Path Lighting (5 Ft Spacing) - Low Voltage		LF	\$	25.20
9.21.1.j	Wind Erosion Material		LF	\$	3.78
9.21.1.k	Bio Tray		EA	\$	36.97

