

Final Estimate Mark Holmes F.H. Paschen 20-16 - 2020 City of Aurora JOC F.H. Paschen - Basic Contract Year -10/01/2020 to 9/30/2021 Aurora PD Cooling Tower - 4623-019

Estimator: Mark Holmes

Summary of tagged estimates...

Division Summary (MF04)

		Grand Total	\$110,119.16
Priced Line Items RSMeans CHICAGO, IL CCI 2021Q1, 121.60%	\$97,374.75 \$21,032.95	2020 City of Aurora JOC F.H. Paschen Standard (-7.0000%)	\$(8,288.54)
Totalling Components			* (0,000, - 1)
25 - Integrated Automation			
23 - Heating, Ventilating, and Air-Conditioning (HVAC)	\$3,580.35	MF04 Total (Without totalling components)	\$97,374.75
22 - Plumbing		FMR	
21 - Fire Suppression		Assemblies	+ ,
14 - Conveying Equipment		Trades	\$4,188.80
13 - Special Construction		Alternate	\$68,950.00
12 - Furnishings		48 - Electric Power Generation	
11 - Equipment		46 - Water and Wastewater Equipment	
10 - Specialties		44 - Pollution Control Equipment	
09 - Finishes		41 - Material Processing and Handling Equipment	
08 - Openings	\$2,345.00	35 - Waterway and Marine Transportation	
06 - Wood, Plastics, and Composites 07 - Thermal and Moisture Protection	\$3,500.00 \$2,343.60	33 - Utilities 34 - Transportation	
05 - Metals	\$3,849.00	32 - Exterior Improvements	
04 - Masonry		31 - Earthwork	
03 - Concrete		28 - Electronic Safety and Security	
02 - Existing Conditions	\$1,725.00	27 - Communications	
01 - General Requirements	\$9,238.00	26 - Electrical	

Estimator: Mark Holmes

Alternate 1

Division Summary (MF04)

01 - General Requirements	26 - Electrical	
02 - Existing Conditions	27 - Communications	
03 - Concrete	28 - Electronic Safety and Security	
04 - Masonry	31 - Earthwork	
05 - Metals	32 - Exterior Improvements	
06 - Wood, Plastics, and Composites	33 - Utilities	
07 - Thermal and Moisture Protection	34 - Transportation	
08 - Openings	35 - Waterway and Marine Transportation	
09 - Finishes	41 - Material Processing and Handling Equipment	
10 - Specialties	44 - Pollution Control Equipment	
11 - Equipment	46 - Water and Wastewater Equipment	
12 - Furnishings	48 - Electric Power Generation	
13 - Special Construction	Alternate	\$6,545.00
14 - Conveying Equipment	Trades	\$816.00
21 - Fire Suppression	Assemblies	
22 - Plumbing	FMR	
23 - Heating, Ventilating, and Air-Conditioning (HVAC)	MF04 Total (Without totalling components)	\$7,361.00
25 - Integrated Automation		
Totalling Components		
Priced Line Items \$7,361.00	2020 City of Aurora JOC F.H. Paschen Standard (-7.0000%)	\$(626.57)
RSMeans CHICAGO, IL CCI 2021Q1, 121.60% \$1,589.98		
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Estimate Grand Total

\$8,324.41

Estimator: Mark	Holmes				Alternate 1
ltem	Description	UM	Quantity	Unit Cost	Total Book
Alternate					
1 05-51-33-23-1440	40 Ladder, shop fabricated, alternating tread, 68-degree incline, steel, 14' vertical Ea. 1.0000 \$6,545.00		\$6,545.00 CUSTOM M, O&P		
	Alternate Total			\$6,545.00	
Trades					
2 SHEE	Sheet Metal Workers - 2021 RSMeans Facilities O&P Rate Hour 8.0000 \$102.00 \$816.00 Trade Labor to install second access ladder identical to existing ladder on opposite side of Service Platform. Second access ladder identical to existing ladder on opposite side of Service Platform. Second access ladder identical to existing ladder on opposite side of Service Platform. Second access ladder identical to existing ladder on opposite side of Service Platform.			\$816.00 Trades L, O&P	
	Trades Total				\$816.0

Estimate Grand Total

8,324.41

Estimator: Mark Holmes			Alternate 2
Totalling Components			
Priced Line Items	\$843.20	2020 City of Aurora JOC F.H. Paschen Standard (-7.0000%)	\$(71.77)
RSMeans CHICAGO, IL CCI 2021Q1, 121.60%	\$182.13		
		Estimate Grand Total	\$953.56

Estimator: Ma	ark Holmes				Alternate 2
ltem	Description	UM	Quantity	Unit Cost	Total Book
Trades					
1 STPI	Steamfitters or Pipefitters - 2021 RSMeans Facilities O&P Rate	Hour	8.0000	\$105.40	\$843.20 Trades L. O&P
	Labor for inspecting mechanical drive system including bearings, fan belt, fan, motor, and Labor to grease bearings and tighten belts.	d mechanical supports.			L, Oar
	Trades Total				\$843.20

Estimate Grand Total

953.56

Estimator: Mark Holmes

Aurora PD Cooling Tower

Division Summary (MF04)

01 - General Requirements	\$9,238.00	26 - Electrical	
02 - Existing Conditions	\$1,725.00	27 - Communications	
03 - Concrete		28 - Electronic Safety and Security	
04 - Masonry		31 - Earthwork	
05 - Metals	\$3,849.00	32 - Exterior Improvements	
06 - Wood, Plastics, and Composites	\$3,500.00	33 - Utilities	
07 - Thermal and Moisture Protection	\$2,343.60	34 - Transportation	
08 - Openings		35 - Waterway and Marine Transportation	
09 - Finishes		41 - Material Processing and Handling Equipment	
10 - Specialties		44 - Pollution Control Equipment	
11 - Equipment		46 - Water and Wastewater Equipment	
12 - Furnishings		48 - Electric Power Generation	
13 - Special Construction		Alternate	\$62,405.00
14 - Conveying Equipment		Trades	\$2,529.60
21 - Fire Suppression		Assemblies	
22 - Plumbing		FMR	
23 - Heating, Ventilating, and Air-Conditioning (HVAC)	\$3,580.35	MF04 Total (Without totalling components)	\$89,170.55
25 - Integrated Automation			
Totalling Components			
Priced Line Items	\$89,170.55	2020 City of Aurora JOC F.H. Paschen Standard (-7.0000%)	\$(7,590.20)
RSMeans CHICAGO, IL CCI 2021Q1, 121.60%	\$19,260.84	` ````````````````````````````	<u>, , , , , , , , , , , , , , , , , </u>

Estimate Grand Total

\$100,841.19

E	stimator: Mark H	Holmes			Auro	ora PD Cooling Tower
	ltem	Description	UM	Quantity	Unit Cost	Total Book
01	- General Requ	irements				
1	01-21-53-50-1750-L	Cost adjustment factors, protection of existing work, add to construction costs for particular job requirements, maximum Protection of existing surfaces during construction.	Costs	110,000.0000	7.0000%	\$7,700.00 RSM20MCOM L, O&P
2	01-54-33-40-5720-2	Rent per day for rent sandblaster, portable, open top 3 cubic feet capacity	Ea.	5.0000	\$145.20	\$726.00 RSM20MCOM E, O&P
		Sand blasting equipment for 5 days.				E, Odi
3	01-54-33-40-5740-2	Rent per day for rent sandblaster accessories	Ea.	5.0000	\$26.40	\$132.00 RSM20MCOM E, O&P
		Sand blasting equipment accessories for 5 days.				E, Odi
4	01-54-36-50-1300	Mobilization or demobilization, delivery charge for equipment, hauled on 3-ton capacity towed trailer Mobilize and demobilize equipment and tools.	Ea.	2.0000	\$340.00	\$680.00 RSM20MCOM L, E, O&P
		01 - General Requirements Total				\$9,238.00
02	- Existing Cond	litions				
5	02-41-19-19-3040	Selective demolition, rubbish handling, 50' haul, loading & trucking, hand loading truck, cost to be added to demolition cost Hauling of construction debris.	C.Y.	30.0000	\$57.50	\$1,725.00 RSM20MCOM L, E, O&P
		02 - Existing Conditions Total				\$1,725.00
05	- Metals					
6	05-01-10-51-6265	Metal cleaning, steel surface treatment, 9.0 lb sand per S.F., near white blast, existing coat blistered/pitted (SSPC-SP10) Sandblasing of cooling tower to near white metal with Garnet Stone. Interior plenum walls not incl	S.F. uded.	250.0000	\$13.50	\$3,375.00 RSM20MCOM M, L, E, O&P
7	05-12-23-65-2100	Steel plate, 1/4" T, warehouse price, no shop fabrication	S.F.	60.0000	\$7.90	\$474.00 RSM20MCOM
		Material only. Furnish G-235 galvanized steel to patch over any holes in the steel.				Grn, M, O&P
		05 - Metals Total				\$3,849.00
06	- Wood, Plastic	s, and Composites				
8	06-52-10-30-1080	Fiberglass grating, molded, orange (for highly corrosive environment), 1-1/2" square mesh, 1" thick Furnish and install non-corrosive fiber glass fill support grid to elevate the fill 6"-8" above the basi	S.F.	140.0000	\$25.00	\$3,500.00 RSM20MCOM M, L, O&P
		06 - Wood, Plastics, and Composites Total				\$3,500.00
07	- Thermal and M	Moisture Protection				
9	07-92-13-20-3850	Joint sealants, caulking and sealants, polyurethane, bulk, in place, 1 or 2 component, 3/4" x 3/4" Apply caulk to all prepared seams. Apply primer and CIM 2000 elastomeric polyurethane membra	L.F. ne liner to pre	540.0000 pared areas.	\$4.34	\$2,343.60 RSM20MCOM M, L, O&P

Estimator: Mark H	lolmes			Aur	ora PD Co	oling Tower
07 - Thermal and Moistur	e Protection					
ltem	Description	UM	Quantity	Unit Cost	Total	Book
	07 - Thermal and Moisture Protection Total					\$2,343.60
23 - Heating, Venti	lating, and Air-Conditioning (HVAC)					
10 23-05-93-50-0160	Pipe testing, nondestructive hydraulic pressure test, isolate, 1 hour hold, 1" to 4" pipe, 250-500 LF Line item used for testing of towers for proper operation.	Ea.	1.0000	\$980.00	\$980.00	RSM20MCOM L, O&P
11 23-05-93-50-0160-11:	20 Labor adjustment factor (mechanical), general, 20' to 24.5' high, add to labor for elevated installation (above floor level), for Division 21, 22 and 23 only (Modified using 22-01-02-20-1120) Line item used for testing of towers for proper operation.	Ea.	1.0000	\$163.75	\$163.75	RSM20MCOM L, O&P
12 23-37-15-40-2000	Louver, aluminum, extruded, with screen, mill finish, cooling tower and mechanical equipment, screens, light weight Line item used for furnish and install new galvanized steel air inlet louver supports. Supports to be Existing air inlet louvers to be re-used.	S.F. etched and co	60.0000 bated with the rest of the cooli	\$37.50 ng tower.	\$2,250.00	RSM20MCOM M, L, O&P
13 23-37-15-40-2000-112	 Labor adjustment factor (mechanical), general, 20' to 24.5' high, add to labor for elevated installation (above floor level), for Division 21, 22 and 23 only (Modified using 22-01-02-20-1120) Line item used for furnish and install new galvanized steel air inlet louver supports. Supports to be Existing air inlet louvers to be re-used. 		60.0000 pated with the rest of the cooli	\$3.11 ng tower.	\$186.60	RSM20MCOM L, O&P
	23 - Heating, Ventilating, and Air-Conditioning (HVAC) Total					\$3,580.3
Alternate						
14 23-00-00-00001	Replacement parts for cooling tower	LSUM	1.0000	\$41,445.00	\$41,445.00	CUSTOM B
	Material only. Furnish replacement cooling tower parts: hot water basin, distribution box, steel cov high efficiency bottom supported PVC fill & drift eliminators, as well as associated angles, seals, a			es new		
15 23-21-20-74-2640	Demo - Strainer, basket type, perforated stainless steelbasket, brass or monel available, simplex style, bronze body, flanged, 3" pipe size Line item used for removal of anti-vortext hood and strainers. Set aside for re-use.	Ea.	2.0000	\$380.00	\$760.00	CUSTOM L, O&P
16 23-65-13-10-6160	 R&R - Cooling tower, packaged unit, stainless steel, induced draft, crossflow, vertical, belt drive, 126 ton, includes standard controls, excludes pumps and piping Labor only. Install replacement cooling tower parts: hot water basin, distribution box, steel covers, of new high efficiency bottom supported PVC fill & drift eliminators, as well as associated angles, steel as a standard based on the standard based			\$20,200.00	\$20,200.00	CUSTOM L, O&P
	Alternate Total					\$62,405.00
Trades 17 STPI	Steamfitters or Pipefitters - 2021 RSMeans Facilities O&P Rate Labor to apply G-235 galvanized steel patch over any holes in the steel. Labor to reinstall existing air inlet louvers, anti-vortex hood, and strainers. Labor to reconnect existing piping to new hot water basins.	Hour	24.0000	\$105.40	\$2,529.60	Trades L, O&P

Final E	Estimate
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Estimator: M	ark Holmes	Aurora PD Cooling			oling Tower	
Trades						
ltem	Description	UM	Quantity	Unit Cost	Total	Book
	Trades Total					\$2,529.60
		Estimate Grand To	otal			100,841.19