

MTE ID-2120

7/12/2023

Web: www.mtechestimating.comE-mail: info@mtechestimating.com**PROJECT: DASNY - MARSHAK HALL BIO LABS RENOVATION AND ASSOCIATED ASBESTOS****ADDRESS: 181 CONVENT AVENUE NY 10031****Addendum update: Please review addendum issued after 07/28/2023**

S#	DWG #	DETAIL #	CSI NO	DESCRIPTION	QTY.	UNIT	UNIT PRICE	TOTAL PRICE
			01000	DIVISION 01 - GENERAL REQUIREMENTS				
1				Mobilization	1	LS		
2				Supervision	1	LS		
3				Safety requirements	1	LS		
4				Office overheads	1	LS		
5				Project Closeouts	1	LS		
6				Submittal and approval	1	LS		
7				Permits & Bonds	1	LS		
8				Temporary Facilities and Controls	1	LS		
				Subtotal				
			02000	DIVISION 02 - EXISTING CONDITIONS				
			02070	SELECTIVE REMOVALS & DEMOLITION				
9	A061-62	Note 1		Remove interior partitions	14870	SF		
10	A061-62	Note 1		Remove furring wall	3195	SF		
11	A061-62	Note 2		Remove single door and frame Note: Coordinate with ACM contractor	33	EA		
12	A062	Note 2		Remove double door and frame Note: Coordinate with ACM contractor	8	EA		
13	A061	Note 3		Remove storefront glazing system in its entirety	195	SF		
14	A061-62	Note 3,4		Remove (5'W) concrete stair incl railings	65	LF		
15	A061	Note 5		Remove rubberized gym flooring - Patch, repair and prepare slab	5580	SF		
16	A062	Note 4		Remove vinyl flooring - Patch, repair and prepare slab	5845	SF		
17	A062	Note 5		Remove carpet flooring - Patch, repair and prepare slab	640	SF		
18	A062	Note 6		Remove hardwood flooring - Patch, repair and prepare slab	1485	SF		
19	A061-62	Note 6		Remove tile flooring - Patch, repair and prepare slab	1845	SF		
20	A061-62	Note 7		Remove toilet compartment incl all accessories	12	EA		
21	A061	Note 10		Remove sink vanity, mirror and countertop	4	EA		
22	A062	Note 9		Remove lockers	2	LOC		
23	A062	Note 10		Remove millwork at lobby	4	LOC		
24	A062	Note 11		Remove concrete slab for stair G	100	SF		
25	A062	Note 12		Remove concrete slab for mechanical duct shaft	16	SF		
26	A062	Note 13		Remove concrete slab for stair F	15	SF		
27	A063	Note 2		Remove ceiling grid system	980	SF		
28	A064	Note 2		Remove drywall ceiling system	1795	SF		
29	A065			Remove exterior wall for louvers	3	LOC		
30	S051			Remove steel beam	42	LF		
31	S051			Remove concrete slab	115	SF		
32	S051			Temporarily shore post	3	LOC		
				Subtotal				
			02081	ASBESTOS ABATEMENT				

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S#	DWG #	DETAIL #	CSI NO	DESCRIPTION	QTY.	UNIT	UNIT PRICE	TOTAL PRICE
33				Door Core / Cavity Insulation (Associated with Interior Doors) Location: 1st Floor - UFC Gym - Throughout	80	SF		
34				Door Core / Cavity Insulation (Associated with Double Entrance Doors) Location: 1st Floor - UFC Gym - Northwest Entrance Doors	40	SF		
35				Concealed Caulk Between Door Frame & M.O. Location: 1st Floor - UFC Gym - Northwest Entrance Doors	4	SF		
36				Door Core / Cavity Insulation (Associated with Entrance Doors) Location: 1st Floor - UFC Gym - Center Entrance Door	20	SF		
37				Concealed Caulk Between Door Frame & M.O. Location: 1st Floor - UFC Gym - Center Entrance Door	4	SF		
38		See spec. 02081 pg. 368-378	Assumed ACM	Door Core / Cavity Insulation (Associated with Entrance Doors) Location: 1st Floor - UFC Gym - East Entrance Door	20	SF		
39				Concealed Caulk Between Door Frame & M.O. Location: 1st Floor - UFC Gym - East Entrance Door	4	SF		
40				Door Core / Cavity Insulation (Associated with Door between Bathroom and Gym) Location: 1st Floor - UFC Gym - South Bathroom	20	SF		
41				Door Core / Cavity Insulation (Associated with Door between Bathroom and Gym) Location: 1st Floor - UFC Gym - East Bathroom	20	SF		
42				Door Core / Cavity Insulation (Associated with Interior Doors)) Location: 2nd Floor - Dance School - Throughout	800	SF		
43				Roof Membrane / Flashing / Tar / Insulation / Screed Location: Roof Level - Throughout	90	SF		
44				Fill within Poured Concrete Roof Slab Location: Roof Level - Throughout	16	SF		
				(Please get price from Asbestos Contractor) Subtotal				
			03000	DIVISION 03 - CONCRETE				
			03005	CONCRETE WORK				
45	S102	S201-202		(3-1/2"thk) Lightweight concrete over metal deck	46	SF		
46	A101			Concrete at raised slab - 9" EL. Note: Detail is not given	455	SF		
47	A101			Concrete at ramp - 9" EL. Note: Detail is not given	125	SF		
48	A101			Concrete at raised slab - 3-7/8" EL. Note: Detail is not given	46	SF		
49	A101			Concrete at ramp - 3-7/8" EL. Note: Detail is not given	36	SF		
			03542	CEMENT BASED SELF LEVELLING UNDERLAYMENT				
50	A101-102			Cement base self levelling underlayment	13750	SF		
				Subtotal				

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S#	DWG #	DETAIL #	CSI NO	DESCRIPTION	QTY.	UNIT	UNIT PRICE	TOTAL PRICE
			05000	DIVISION 05 - METALS				
			05120	STRUCTURAL STEEL				
51	S102	S201-202		W16x40 = 24 LF	3560	LB		
				W18x50 = 14 LF				
				W24x76 = 25 LF				
				METAL DECK				
52	S102	S201-202		(1-1/2"D x 18 GA) Composite metal deck	46	SF		
			05500	METAL FABRICATIONS				
53	FF205	Schedule		(34"x8"x15") Mop and broom rack	1	EA		
54	A101	A401-402		(1.66"dia) Painted steel pipe handrail, wall mtd	100	LF		
55	A101-102	A501		Steel pan stair steps	165	SF		
56				(12"Wx2") Precast concrete treads	96	LF		
57				Steel stringers	100	LF		
58	A101-102	A502		Steel pan landing w/ (2") concrete fill	60	SF		
59				Steel pan stair steps	170	SF		
60				(12"Wx2") Precast concrete treads	100	LF		
61	A101-102	A502		Steel stringers	98	LF		
62				Steel pan landing w/ (2") concrete fill	55	SF		
63	A101-102	A501-502		(1.66"dia) Painted steel pipe handrail, wall mtd	252	LF		
				ORNAMENTAL METAL				
64	FF204,216	Schedule		(48"x12"x12") Hat and coat rack	2	EA		
65	A401-402	Keynote 12		(1.66"dia.) Painted steel pipe handrail	87	LF		
				Subtotal				
			06000	DIVISION 06 - WOOD AND PLASTIC				
			06100	ROUGH CARPENTRY				
66				Misc. rough carpentry	1	LS		
			06200	FINISH CARPENTRY				
67	FF216	Telecom room note 2		(3/4"thk,8'H) Painted fire retardant treated plywood	400	SF		
			06410	CUSTOM CASEWORK				
68	FF201-215	A710		(24"x72"x12"D) Cubby unit	72	EA		
69		A713		(24"x12"x24") Wall hung shelves	36	EA		
70		A712		1 1/4"thk Plastic laminated countertop w/ support legs	180	SF		
71				(4"H) Back and side splash	130	LF		
72		A711		(36"x24"x72") Teachers wardrobe	9	EA		
73		A715		(36"X12"x28") Book shelf w/ laminated top	18	EA		
74	FF208	A716		(2') Storage shelving closet	60	LF		
75	FF216	A714		(30"x12"x36") Wall hung cabinet with doors	4	EA		
76	FF207	A719		(9'7"Lx2'Wx2'6"-3'6"H) Plastic laminate office countertop	1	EA		
77	A101	A718		(11'2"LX3'-2 1/2"Hx2'D) Wooden security desk w/ solid surface incl. - (1) Cabinet	1	EA		
78	FF216	Schedule		Wall mounted sound rack	1	EA		
79				Bacnet cabinet	3	EA		
				Subtotal				
			07000	DIVISION 07 - THERMAL AND MOISTURE PROTECTION				
			07270	FIRESTOPPING/SMOKE SEALS				

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S#	DWG #	DETAIL #	CSI NO	DESCRIPTION	QTY.	UNIT	UNIT PRICE	TOTAL PRICE
80				Misc. firestopping	1	LS		
			07900	JOINT SEALERS				
81	A401-403	4/A402, Keynote 7		Vertical control joint	95	LF		
82				Misc. joint sealants	1	LS		
				Subtotal				
			08000	DIVISION 08 - OPENINGS				
83	A910	Door sch.		Marble saddle	42	LF		
84				Aluminum saddle	15	LF		
85	A910	Door sch.		(3'x8') Type D1 AL door w/ type F1 AL frame Note: Item relocated and revised as per addendum 02	1	EA		
			08110	STEEL METAL DOORS AND FRAMES				
86	A910	Door sch.		(3'x8') Type D1 HM door w/ type F1 AL frame Note: Item relocated as per addendum 02	N/A	N/A		
87				(3'x7') Type D1 HM door w/ type F1 HM frame	1	EA		
88				90MIN, (3'x7') Type D1 HM door w/ type F1 HM frame	6	EA		
			08210	WOOD DOORS				
89	A910	Door sch.		(3'x7') Type D2 WD door and (5'4"x7'2") type F3 HM frame incl. sidelites	12	EA		
90				(3'x7') Type D1 WD door w/ type F1 HM frame	20	EA		
91				90MIN, (3'x7') Type D1 WD door w/ type F1 HM frame	1	EA		
92				90MIN, (3'x8') Type D3 WD door w/ type F1 HM frame incl. vision panel	1	EA		
93				90MIN, (3'x7') Type D1 WD door w/ type F1 GHM frame	2	EA		
94				90MIN, (3'x7') Type D3 WD door w/ type F1 HM frame	2	EA		
95				(4'x7') Type D4 WD door w/ type F2 HM frame incl. Louvers	2	EA		
			08305	ACCESS DOORS				
96		See spec		Access door as required	1	LS		
			08710	FINISH HARDWARE				
				Hardware 01: 2 cont. hinge 1 removable mullion 1 panic hardware 1 panic hardware 1 rim cylinder 1 mortise cylinder 2 final fsic core 2 90 deg offset pull 2 oh stop 2 surface closer 2 meeting stile seals 2 door sweep 1 mullion seal 4 mounting bracket 2 door contact	1			

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S#	DWG #	DETAIL #	CSI NO	DESCRIPTION	QTY.	UNIT	UNIT PRICE	TOTAL PRICE
				Hardware 01a: 2 cont. hinge 2 push/pull bar 2 surface closer 2 floor stop 1 pile meeting stile seal 1 pile perimeter seal	1			
				Hardware 01b: 1 cont. hinge 1 push/pull bar 1 surface closer 1 wall stop 3 pile perimeter seal	3			
				Hardware 01d: 3 heavy weight hinge 1 panic Hardware 1 rim cylinder 1 final fsic core 1 oh stop 1 surface closer 1 door sweep 1 set gasketing 1 threshold 1 mounting bracket 1 door contact	1			
				Hardware 12: 3 1/2 surface hinge 1 classroom lock 1 final fsic core 1 surface closer 1 kick plate 1 wall stop 3 silencer	1			
				Hardware 13: 3 1/2 surface hinge 1 classroom security 2 final fsic core 1 surface closer 1 kick plate 1 wall stop 3 silencer	1			
				Hardware 13a: 3 1/2 surface hinge 1 classroom lock 2 final fsic core 1 surface closer 1 kick plate 1 wall stop 3 silencer	2			
				Hardware 13b: 3 1/2 surface hinge 1 classroom security 2 final fsic core 1 surface closer 1 kick plate 1 wall stop 3 silencer	3			

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S#	DWG #	DETAIL #	CSI NO	DESCRIPTION	QTY.	UNIT	UNIT PRICE	TOTAL PRICE
				Hardware 13c: 3 standard weight hinge 1 classroom security 2 final fsic core 1 surface closer 1 kick plate 1 wall stop 1 mail slot 1 letter box 3 silencer	1			
				Hardware 17a: 3 1/2 surface hinge 1 classroom security 2 final fsic core 1 surface closer 1 kick plate 1 wall stop 1 card holder 3 silencer	10			
				Hardware 20: 3 1/2 surface hinge 1 passage set 1 surface closer 1 kick plate 3 silencer	11			
				Hardware 22: 3 1/2 surface hinge 1 fac restrm w/ind 1 final fsic core 1 oh stop 1 surface closer 1 kick plate 3 silencer	2			
				Hardware 22a: 3 1/2 surface hinge 1 privacy lock 1 surface closer 1 kick plate 1 wall stop 3 silencer	2			
				Hardware 23: 3 standard weight hinge 1 rim lock 1 door pull 1 oh stop 1 surface closer 1 kick plate 3 silencer	1			
				Hardware 26: 3 standard weight hinge 1 storeroom lock 1 final fsic core 1 surface closer 1 kick plate 1 wall stop 3 silencer 1 door contact	1			

Spec sec
08710 pg 665-
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S#	DWG #	DETAIL #	CSI NO	DESCRIPTION	QTY.	UNIT	UNIT PRICE	TOTAL PRICE
				Hardware 28: 3 1/2 surface hinge 1 storeroom lock 1 push plate 1 oh stop 1 surface closer 1 gasketing	2			
				Hardware 29: 3 standard weight hinge 1 fire exit Hardware 1 rim cylinder 1 final fsic core 1 oh stop 1 surface closer 1 gasketing 1 door contact	1			
				Hardware 29a: 3 standard weight hinge 1 classroom lock 1 final fsic core 1 oh stop 1 surface closer 1 gasketing	1			
				Hardware 31: 6 standard weight hinge 1 set auto flush bolt 1 dust proof strike 1 storeroom lock 1 final fsic core 1 coordinator 2 mounting bracket 1 oh stop 2 surface closer 2 wall stop 1 gasketing	1			
				Hardware 32: 3 1/2 surface hinge 1 storeroom lock 1 final fsic core 1 surface closer 1 kick plate 1 wall stop 1 gasketing	2			
				Hardware 37a: 6 standard weight hinge 2 surface bolt 2 magnetic catch 1 classroom dead lock 2 door pull 2 oh stop	2			
			08921	ALUMINUM STOREFRONT				
97	A401	Door sch. Keynote 1 @ A401		(10'x11'8") 4 side captured factory painted alum. Mullion curtain wall assembly w/ (9/16"thk) laminated heat streng. Glass incl. - (6'x8') type D6 AL/GL door w/ AL frame =1 EA	118	SF		

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S#	DWG #	DETAIL #	CSI NO	DESCRIPTION	QTY.	UNIT	UNIT PRICE	TOTAL PRICE
98	A101	2/A101, Keynote 1 @ A401		(8'11"x11') 4 side captured factory painted alum. Mullion curtain wall assembly w/ (9/16"thk) laminated heat streng. Glass incl. - (6'x8') type D6 AL/GL door w/ AL frame =1 EA	100	SF		
				Subtotal				
			09000	DIVISION 09 - FINISHES				
99	A801	2/A811		(2'x2') Metal panel ceiling w/ suspension system	785	SF		
100	A101	A901		Sealed concrete (SC-1)	95	SF		
			09260	GYPSON BOARD ASSEMBLIES				
101	A101-102	A701		2HR Partition type-A1: - (2) layer, 5/8" Moisture resistant GWB both side - (3-5/8", 20GA) Metal stud @ 16" O.C. - (3-1/2") Mineral fiber, sound attenuating fire blanket	18170	SF		
102	A101-102	A701		Partition type-A2: - (2) layer, 5/8" Moisture resistant GWB both side - (3-5/8", 14GA) Metal stud @ 16" O.C. - (3-1/2") Mineral fiber, sound attenuating fire blanket	830	SF		
103	A101-102	A701		2HR Partition type-A3: - (2) layer, 5/8" Moisture resistant GWB both side - (6", 20GA) Metal stud @ 16" O.C. - (3-1/2") Mineral fiber, sound attenuating fire blanket	2435	SF		
104	A102	A701		Partition type-B1: - (2) layer, 5/8" Moisture resistant GWB - (2-1/2", 20GA) Metal stud @ 16" O.C. - (2-1/2") Mineral fiber, sound attenuating fire blanket	2330	SF		
105	A801-802	3/A811		Gypsum board ceiling/soffit w/ metal stud suspension system	135	SF		
			09310	CERAMIC TILE				
106	A101-102	A901		Ceramic tile flooring (T5,T6) Note: Pattern to be followed	635	SF		
107	FF201- 216, A402,403	A901		Ceramic wall tile (T1,2,3,4) Note: Pattern to be followed	2010	SF		
108	A501-502	A901		Porcelain tile flooring on stair landings (PT)	215	SF		
109	A101	A901		(6"x6") Quarry tile flooring (T-7)	895	SF		
110	A101	A901		(6") Quarry tile base (B-10)	245	LF		
			09510	ACOUSTICAL CEILINGS				
111	A801-802	1/A811		Acoustical ceiling tile with suspension system	13330	SF		
			09650	RESILIENT FLOORING				
112	A101-102	A901		(12"x12") Vinyl composition tile (VCT1-7)	13750	SF		
113	A101-102	A901		(4"H) Rubber base	2600	LF		
			09670	VINYL SHEET ATHLETIC FLOORING				
				RFI: Specification section "09670" is given. However related work is not shown anywhere on the dwgs. Please clarify?				
			09675	FLUID-APPLIED EQUIPMENT ROOM FLOORING				

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S#	DWG #	DETAIL #	CSI NO	DESCRIPTION	QTY.	UNIT	UNIT PRICE	TOTAL PRICE
114	A102	A901		Fluid applied equipment room flooring (FAF-1)	420	SF		
115				Fluid applied base (FAF)	100	LF		
			09900	PAINTING				
116	A801-802			Prime and paint GWB ceiling/soffit	135	SF		
117	A801-802	A901		Prepare, prime and paint wall	38355	SF		
				Subtotal				
			10000	DIVISION 10- SPECIALTIES				
118	FF201-216	Schedule		Install (71"x43") Adjustable interactive monitor - Provided by owner	9	EA		
			10100	VISUAL DISPLAY BOARDS				
119	FF201-216	A730		(5'x4') Markerboard	26	EA		
120				(5'X11") Tackboard	27	EA		
121				(8'x4') Tackboard	9	EA		
122				(4'x4') Display board	5	EA		
123				(8'x4') Dry marker board	6	EA		
124				(4'x4') Marker board	1	EA		
125				(8'x4') Display board	1	EA		
126				(6'x4') Display board	3	EA		
127	A401-403	Keynote 11		(4'x4') Tack board	5	EA		
128		Keynote 5		(4'x8') Tack board	8	EA		
			10151	TOILET COMPARTMENTS				
				RFI: Specification section "10151" is given. However related work is not shown anywhere on the dwgs. Please clarify?				
			10400	IDENTIFYING DEVICES				
129	A931-933	Signage sch.		(4 3/8"x4 3/8") Type B1 etched zinc signage	6	EA		
130				(7 7/8"x4 3/8") Type C1 etched zinc signage	5	EA		
131				(8 1/2"x8 1/2") Type D2 aluminum signage	15	EA		
132				(8 1/2"x8 15/32") Type E1 etched zinc signage	2	EA		
133				(7 7/8"x11 1/2") Type F3 etched zinc signage	1	EA		
134				(7 7/8"x11 1/2") Type F4 etched zinc signage	1	EA		
135				(7 7/8"x9 1/2") Type F6 etched zinc signage	13	EA		
136				(1'x2'5") Type G1 etched zinc signage	2	EA		
137				(8"x4 3/8") Type L3 etched zinc signage	2	EA		
138				(5 5/8"x5 5/8") Type M1 etched zinc signage	4	EA		
139				(5 5/8"x5 5/8") Type M2 etched zinc signage	4	EA		
140				(7 7/8"x10 15/32") Type M3 etched zinc signage	4	EA		
141				(1'6"x1'6") Type M4 etched zinc signage	4	EA		
142				(7 7/8"x4 3/8") Type M5 etched zinc signage	4	EA		
143				(10"x1 3 31/32") Type N6 etched zinc signage	1	EA		
144				(10"x1'2") Type S1 etched zinc signage	1	EA		
145				(1'3"x11") Type R3 aluminum signage	1	EA		
				BULLETIN BOARDS, GLAZED DISPLAY BOARDS, DISPLAY CABINETS AND CASES				
146	FF204	Schedule		(4'x4'8") Glazed display board	1	EA		
147	A401	Note 2		(4'x4') Glazed display board	1	EA		
148	A731	3/A731		(8'Lx4'6"H) Glazed display cabinet	1	EA		
			10505	METAL LOCKERS				
149	FF203	Schedule		ADA Metal locker with mirror	2	EA		
150				(18"x21"x72") Metal locker with mirror	6	EA		
151				(42"x20"x17") ADA Locker furn/bench	2	EA		
			10522	FIRE EXTINGUISHER AND CABINETS				

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152	FF216	Schedule		(10"x15"x5") Fire blanket cabinet	1	EA		
153				(17"x26"x4") Recessed medicine cabinet	1	EA		
154	FF216, A101-102	Legend		Fire extinguisher 10# ABC	5	EA		
155	A101-102	Keynote 10 @ A401		Recessed fire extinguisher cabinet (FEC)	7	EA		
			10675	METAL STORAGE SHELVING				
156	FF205-206	A720		(36"x12"x87") Type A metal shelving	1	EA		
157				(48"x12"x12") Type C metal shelving	3	EA		
			10810	TOILET AND BATH ACCESSORIES				
158	FF201-216	Schedule		Lavatory MTD soap dispenser	10	EA		
159				Toilet paper dispenser	13	EA		
160				Countertop mounted liquid soap dispenser	10	EA		
161				(11"x7"x4"D) Surface MTD paper towel dispenser	10	EA		
162				(14"x28"x4"D) Recessed paper towel dispenser/waste receptacle	14	EA		
163				Soap dispenser	2	EA		
164				Paper towel dispenser	3	EA		
165				(10"x6"x4") Recessed liquid soap dispenser	4	EA		
166				Recessed napkin disposal	3	EA		
				10830	MIRRORS			
167	FF201-216	Schedule		(18"x36") Mirror	14	EA		
			10840	GRAB BARS				
168	FF201-216	Schedule		18"L Grab bar	13	EA		
169				36"L Grab bar	13	EA		
170				42"L Grab bar	13	EA		
				Subtotal				
			11000	DIVISION 11 - EQUIPMENT				
			11172	WASTE HANDLING EQUIPMENT				
171	FF205	Schedule		Vertical trash compactor	1	EA		
			11401	FOOD SERVICE EQUIPMENT FOR WARMING PANTRY				
172	FF203	Schedule		(49"W) Milk chest	4	EA		
173				Mobile heated cabinet	4	EA		
174				Sink agitator	1	EA		
175				Pot sink	1	EA		
176				Mobile pan rack	2	EA		
177				Utility Cart	4	EA		
178				4' Work/prep table	2	EA		
179				(2'x4') 4-tier shelving	4	EA		
180				(2'x3') Dunnage rack	7	EA		
				11450	DOMESTIC TYPE EQUIPMENT			
181	FF216	schedule		(16 3/4"x22"x12 1/2") Microwave	1	EA		
182				(24"x32") Refrigerator - MARVEL ML24RAS1LS	1	EA		
				EXCERCSE ROOM PADDING				
183	FF208	schedule		(6'x2') Wall protection mats	520	SF		
				Subtotal				
			12000	DIVISION 12- FURNISHINGS				

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S#	DWG #	DETAIL #	CSI NO	DESCRIPTION	QTY.	UNIT	UNIT PRICE	TOTAL PRICE
184	A910	Frame type note 2		Chain and clutch operated opaque shade with valance on sidelites = 10 EA	155	SF		
185	A910	Frame type note 3		Door mounted sliding opaque screen on vision panel = 10 EA	55	SF		
			12500	WINDOW SHADES				
186	A101-102			Double window shades on classroom stoerfronts Note: Item added as per addendum 02	1950	SF		
				RFI: Specification section 12500 is provided. Please clarify if window shades are required for all storefront windows in classrooms				
			12485	FOOT GRILLES				
187	A101	legend		Walk off mat at vestibule	80	SF		
				Subtotal				
			220000	DIVISION 22 - PLUMBING				
			220523	VALVES				
188	P201-202	P500		3/4" Ball valve	16	EA		
189				1/2" Ball valve	4	EA		
190				Double check valve assembly (backflow preventer), ZURN #700XL	4	EA		
			220529	PIPE HANGERS AND SUPPORTS				
191	P201-202			Pipe hangers and supports - Total piping length = 1062 LF	1	LS		
			220553	PIPE AND VALVE IDENTIFICATION				
192	P201-202			Pipe and valve identification	1	LS		
			220576	DRAINAGE ACCESSORIES				
193	P201-202			Cleanout	8	EA		
			220700	PIPING INSULATION				
194	P201-202			Insulation for hot water piping	62	SF		
195				Insulation for cold water piping	66	SF		
			220800	CLEANING AND TESTING				
196	P201-202			Cleaning and testing	1	LS		
			221100	PLUMBING PIPING				
197	P201-202			2" Acid waste pipe	211	LF		
198				1-1/2" Acid vent pipe	167	LF		
199				3/4" Cold water pipe	298	LF		
200				1/2" Cold water pipe	55	LF		
201				3/4" Hot water pipe	282	LF		
202				1/2" Hot water pipe	49	LF		
203				1" Tepid water pipe to eyewash and shower Note: Exact piping not shown on plans. For bid purpose, assume a length of 4LF at leach location (total 4 locations).	4	LOC		
			221120	MIXING VALVES				
204	P201-202			3/4" Thermostatic mixing valve	4	EA		
			224200	PLUMBING FIXTURES				
205				P-1 18"x15"x11" Countertop sink, KEMRESIN drop-in type, and associated accessories	4	EA		

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S#	DWG #	DETAIL #	CSI NO	DESCRIPTION	QTY.	UNIT	UNIT PRICE	TOTAL PRICE
206	P201-202	Plumbing fixture schedule/A402		P-2 25"x15"x10" Countertop sink w/WPS, KEMRESIN drop-in type, and associated accessories	4	EA		
207				P-2A 25"x15"x14.8" A.D.A Countertop sink w/WPS, KEMRESIN drop-in type, and associated accessories	4	EA		
208				ESH-1 Recessed emergency eyewash and shower, WATERSAVER GSC2670J- AP280-235-TMV, and associated accessories	4	EA		
209		WPS schedule/P001		WPS-1 Water purification system, EMD MILLIPORE MILLI-Q IQ 7003, and associated accessories	1	EA		
210				WPS-2 Water purification system, EMD MILLIPORE MILLI-Q IX 7003, and associated accessories	3	EA		
						Subtotal		
			230000	DIVISION 23 - MECHANICAL				
				MISC. MECHANICAL WORKS				
211	M302	Diffuser and register		12"x12" Ceiling diffuser, 6" neck, 75 CFM, and associated accessories	8	EA		
212				Supply register, 24"x8" neck, 335 CFM, and associated accessories	4	EA		
213		Fan schedule/M101		EF-5-1 Exhaust fan, 350 CFM, GREENHECK SQ-90-VG1X-QD	1	EA		
214		Duct symbols/M001 Keyed notes		Extend existing duct and provide duct transition as required	11	LS		
215				12"x8" duct	5	LS		
216				Fire damper for exhaust fan	1	EA		
217				Fire damper for supply diffuser	4	SF		
218				Thermostat	1	SF		
219				12"x8" Wire mesh screen	2	LS		
						Subtotal		
			260000	DIVISION 26 - MECHANICAL				
			260501	BASIC ELECTRICAL MATERIALS AND METHODS				
	E201-202			Lighting and lighting control:				
220				Light fixture ref: F1	8	EA		
221				Light fixture ref: F2	24	EA		
222				Light fixture ref: F2 EM	8	EA		
223				Light fixture ref: F3	8	EA		
224				Light fixture ref: F4	15	EA		
225				Light fixture ref: F5	1	EA		
226				Light fixture ref: F5 EM	1	EA		
227				Dimmer switch	13	EA		
				Grounding and bonding:				
228				1#2 AWG ground wire	20	LF		
229				1#10 AWG ground wire	17	LF		
230				1#12 AWG ground wire	4776	LF		

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S#	DWG #	DETAIL #	CSI NO	DESCRIPTION	QTY.	UNIT	UNIT PRICE	TOTAL PRICE
231				20"x4"x1/4" copper ground bar on 5/8" dia and 2" insulators with 9/16" and 7/16" insulators	1	EA		
			260504	CLEANING, INSPECTION, AND TESTING OF ELECTRICAL EQUIPMENT				
232	E201-202			Cleaning, inspection, and testing of electrical equipment	1	LS		
			260519	WIRING, GENERAL – 600 VOLTS AND UNDER				
233				4#4/0 AWG wire	20	LF		
234	E201-202			4#8 AWG wire	17	LF		
235				2#12 AWG wire	4776	LF		
			260532	FASTENERS, ATTACHMENTS, AND SUPPORTING DEVICES				
236	E201-202			Fasteners, attachments, and supporting devices Total conduit length = 3858 LF	1	LS		
			260532	INTERIOR RACEWAYS, FITTINGS, AND ACCESSORIES				
237	E201-202			3/4" Conduit	3838	LF		
238				2-1/2" FMC conduit	20	LF		
			262416	PANELBOARDS				
239				Panel L5-1B, 42 pole, 200A, 120/208V3PH	1	EA		
240	E201-202			Panel L5-2A, 42 pole, 200A, 120/208V3PH	1	EA		
241				Panel LP-9A IDF, 18 pole, 50A, 120/208V3PH	1	EA		
242				Panel L5-3H, 42 pole, 200A, 120/208V3PH	1	EA		
				Subtotal				
				TOTAL				