

TOWN OF BRIDGEWATER

Fire Station Building Committee

Michael MacDermott
Timothy Donovan
Casey Florence
Stacy Blundell
Alan Chuckran
Michael Flaherty
Peter Spiro
Norman Whitaker
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Ken Bernard
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Academy Building - 66 Central Square
Bridgewater, MA 02324

Agenda for the Fire Station Building Committee Convening on November 9, 2021

Disclosure: Pursuant to Section 20 of Chapter 20 of the Acts of 2021, An Act Relative to Extending Certain Covid-19 Measures Adopted During the State of Emergency, this meeting of the Fire Station Building Committee for the Town of Bridgewater will be fully remote and accessible to the public through remote participation to the greatest extent possible. There will be no in person attendance permitted. Citizens who wish to tune in to the meeting may do so via Zoom or Facebook Live.

Link to join meeting: <https://us06web.zoom.us/j/83672833524>
Call In: 1-646-876-9923
Meeting ID: 836 728 335 24

Call to Order at 12:00 p.m. (Meeting is recorded)

Public Comment

New Business

Schematic Design Estimate

Project Budget Breakdown

Adjourn

PROPOSED FIRE HEADQUARTERS
Bridgewater, MA
 Early Schematic Design Construction Cost Estimate Summary

ITEM	Site Improvement Cost	Main Building Cost	\$/SF for Building Only	Outbuilding	TOTAL ESTIMATED COST	
		26,350 SF		5,760 SF		
1	Sitework Preparation	\$80,600		\$2,000	\$82,600	
2	Site Excavation	\$162,190		\$3,560	\$165,750	
3	Site Utilities	\$630,750		\$0	\$630,750	
4	Site Lighting	\$114,500		\$0	\$114,500	
5	Site Paving, Concrete and Curbing	\$354,985		\$9,540	\$364,525	
6	Site Amenities	\$72,450		\$0	\$72,450	
7	Landscaping	\$84,800		\$0	\$84,800	
8	Foundation Excavation		\$122,095	\$4.63	\$35,250	\$157,345
9	Concrete		\$520,760	\$19.76	\$92,066	\$612,826
10	Masonry		\$1,333,235	\$50.60	\$0	\$1,333,235
11	Structural Steel		\$894,763	\$33.96	\$0	\$894,763
12	Miscellaneous Metal		\$332,990	\$12.64	\$9,500	\$342,490
13	Rough Carpentry		\$157,221	\$5.97	\$265,190	\$422,411
14	Finish Carpentry		\$167,800	\$6.37	\$0	\$167,800
15	Moisture Protection		\$182,232	\$6.92	\$9,580	\$191,812
16	Roofing		\$489,332	\$18.57	\$46,850	\$536,182
17	Insulation		\$200,925	\$7.63	\$25,622	\$226,547
18	Windows, Glass and Metal Panels		\$223,760	\$8.49	\$0	\$223,760
19	Doors, Frames and Hardware		\$342,950	\$13.02	\$29,925	\$372,875
20	Structural Light Guage Metal Framing		\$260,691	\$9.89	\$0	\$260,691
21	Drywall		\$329,230	\$12.49	\$46,743	\$375,973
22	Acoustical Ceiling		\$68,150	\$2.59	\$0	\$68,150
23	Ceramic Tile		\$92,630	\$3.52	\$0	\$92,630
24	Flooring		\$172,711	\$6.55	\$3,563	\$176,274
25	Painting		\$118,117	\$4.48	\$11,180	\$129,297
26	Specialties/Accessories		\$211,591	\$8.03	\$1,300	\$212,891
27	Appliances		\$29,400	\$1.12	\$0	\$29,400
28	Elevator		\$0	\$0.00	\$0	\$0
29	Plumbing		\$429,600	\$16.30	\$16,800	\$446,400
30	Fire Protection		\$241,495	\$9.16	\$0	\$241,495
31	HVAC		\$1,344,910	\$51.04	\$23,700	\$1,368,610
32	Electric		\$1,171,638	\$44.46	\$66,580	\$1,238,218
33	Integrated Technology		\$285,800	\$10.85	\$15,000	\$300,800
34	Direct Trade Cost Subtotal	\$1,500,275	\$9,724,026	\$369.03	\$713,948	\$11,938,249
35	General Conditions	\$239,650	\$1,553,292	\$58.95	\$114,044	\$1,906,987
36	Contractor Fee (3%)	\$52,198	\$338,320	\$12.84	\$24,840	\$415,357
37	Winter Weather Protection/ Temporary Heat	In Gen. Cond.	In Gen. Cond.	In Gen. Cond.	In Gen. Cond.	In Gen. Cond.
38	Subtotal	\$1,792,123	\$11,615,637	\$440.82	\$852,832	\$14,260,592
39						
40	Performance and Payment Bond (1%)	\$17,921	\$116,156	\$4.41	\$8,528	\$142,606
41	Subtotal	\$1,810,044	\$11,731,793	\$445.23	\$861,360	\$14,403,198
42						
43	Design/Estimating Contingency (10%)	\$181,004	\$1,173,179	\$44.52	\$86,136	\$1,440,320
44	Construction Change Order Contingency	By Owner	By Owner	By Owner	By Owner	By Owner
45	Subtotal	\$1,991,049	\$12,904,973	\$489.75	\$947,496	\$15,843,518
46						
47	Escalation (5% assuming bids fall 2022)	\$99,552	\$645,249	\$24.49	\$47,375	\$792,176
	PROJECT TOTAL	\$2,090,601	\$13,550,221	\$514.24	\$994,871	\$16,635,694

NOTES:

1. Pricing is based upon prevailing wage and Massachusetts Chapter 149 or 149A bid requirements.
2. The estimate assumes project will be in the fall of 2022.
3. The estimate assumes the construction duration is 18 months.
4. The estimate includes a \$150,000 allowance for addressing winter conditions (temporary protection, heat and snow removal).
5. Removal and disposal of contaminated soil is not included.
6. Removal of ledge is not included.

estimate by:

FV Consulting LLC

Newton, MA

October 20, 2021

estimate by:
FV Consulting LLC
 Newton, MA

Estimate for: **PROPOSED FIRE HEADQUARTERS, Bridgewater, MA**
MAIN FIRE STATION BUILDING

October 30, 2021

Ref Dwgs: Site Plan by Jacunski Humes Architects dated September 14, 2021
 Gross Site Area: Approximately 2 Acres

	ITEM	QUANTITY	UNIT	UNIT COST	TOTAL	NOTES
1	Sitework Preparation					
2	Silt Fence	1,400	lf	\$ 2.00	\$ 2,800.00	
3	Haybale Erosion Control	1,400	lf	\$ 6.00	\$ 8,400.00	
4	Tree Removal and Brush Clearing for Site	1	allow	\$ 30,000.00	\$ 30,000.00	
5	Tree and Brush Removal for Nature Trail					in Landscaping
6	Perimeter Construction Fencing 8' with Scrim	1,300	lf	\$ 22.00	\$ 28,600.00	
7	Fence Gate for Truck Access	1	ea	\$ 1,000.00	\$ 1,000.00	
8	Man Gate	1	ea	\$ 300.00	\$ 300.00	
9	Grading and Compaction for Temporary Construction Access Road	5,000	sf	\$ 1.00	\$ 5,000.00	assume 25' wide x 200'
10	6" Stone for Temporary Access Road	100	cy	\$ 30.00	\$ 3,000.00	
11	Truck Washdown Area	1	allow	\$ 1,500.00	\$ 1,500.00	
12						
13	Subtotal				\$ 80,600.00	
14	Site Earthwork					
15	Remove Large Tree Stumps	1	allow	\$ 10,000.00	\$ 10,000.00	
16	Clear and grub	2	acres	\$ 7,500.00	\$ 15,000.00	
17	Strip Topsoil (assume 4") and Remove from Site	1,000	cy	\$ 16.00	\$ 16,000.00	
18	Cuts to Fills (assume 1'-6" average)	3,000	cy	\$ 5.50	\$ 16,500.00	excludes building footprints
19	Soil Disposal as Clean Fill					Assume all Remains on Site
20	Ledge Removal					Not Included
21	Rough Grade for Sitework	6,000	sy	\$ 1.00	\$ 6,000.00	
22	Fine Grade and Compact at Paved Areas and Walkways	5,620	sy	\$ 2.00	\$ 11,240.00	
23	6" Gravel under sidewalks	70	cy	\$ 35.00	\$ 2,450.00	
24	12" Dense Grade under Drives and Parking	1,750	cy	\$ 30.00	\$ 52,500.00	
25	Survey Work	1	allow	\$ 7,500.00	\$ 7,500.00	
26	Dust Control	1	allow	\$ 5,000.00	\$ 5,000.00	
27	Excavate for Retaining Walls	1	allow	\$ 20,000.00	\$ 20,000.00	
28	Excavate/Backfill for Underground Piping					in Utilities
29	Excavate and Fill for Culverts					in Utilities
30	Excavate/Backfill for Ductbanks					in Utilities
31	Trench for Site Lighting Conduit					in Utilities
32						
33	Subtotal				\$ 162,190.00	
34	Site Utilities					
35	<u>Water Service:</u>					
36	-New Hydrant	1	ea	\$ 5,000.00	\$ 5,000.00	
37	-Domestic Water Piping (assume 2")	375	lf	\$ 50.00	\$ 18,750.00	
38	-Connection and Valve for Domestic Water	1	ea	\$ 4,000.00	\$ 4,000.00	
39	-Fire Service Piping (assume 4")	375	lf	\$ 85.00	\$ 31,875.00	
40	-Connection and Valve for Fire Service	1	ea	\$ 7,500.00	\$ 7,500.00	
41	-Trenching and Backfill	375	lf	\$ 40.00	\$ 15,000.00	
42	-Sawcut Pleasant Street	80	lf	\$ 8.00	\$ 640.00	
43	-Plates and Barriers	1	allow	\$ 2,500.00	\$ 2,500.00	
44	-Patch Asphalt	240	sf	\$ 8.00	\$ 1,920.00	assume 6' x 40'
45	-Police Details	10	MD	\$ 500.00	\$ 5,000.00	
46	<u>Sanitary System:</u>					
47	-Sewer Manhole	2	ea	\$ 4,000.00	\$ 8,000.00	allowance
48	-Oil/Sand Separator					in Main Building Costs
49	-HDPE Piping (assume 6")	340	lf	\$ 25.00	\$ 8,500.00	
50	-Connection to Existing in Street	1	ea	\$ 5,000.00	\$ 5,000.00	
51	-Trenching and Backfill	340	lf	\$ 40.00	\$ 13,600.00	
52	-Sawcut Pleasant Street	55	lf	\$ 8.00	\$ 440.00	
53	-Plates and Barriers	1	allow	\$ 1,000.00	\$ 1,000.00	
54	-Patch Asphalt	150	sf	\$ 8.00	\$ 1,200.00	assume 6' x 25'
55	-Police Details	4	MD	\$ 500.00	\$ 2,000.00	
56	<u>Storm Drainage:</u>					
57	-Catch Basins, Manholes and Piping/Trenching	1	allow	\$ 200,000.00	\$ 200,000.00	
58	-Storm Water Retention System					in Allowance Above
59	-Culvert Crossing at Main Drive:					
60	Wetlands Protection for Culvert Construction	1	allow	\$ 5,000.00	\$ 5,000.00	
61	Excavation for Culverts	360	cy	\$ 10.00	\$ 3,600.00	Assume 2' Depth on Average for 70' x 70' area
62	General Backfill Compacted	80	cy	\$ 18.00	\$ 1,440.00	
63	Dispose of Overburden	280	cy	\$ 22.00	\$ 6,160.00	

estimate by:
FV Consulting LLC
 Newton, MA

Estimate for: **PROPOSED FIRE HEADQUARTERS, Bridgewater, MA**
MAIN FIRE STATION BUILDING

October 30, 2021

Ref Dwgs: Site Plan by Jacunski Humes Architects dated September 14, 2021
 Gross Site Area: Approximately 2 Acres

	ITEM	QUANTITY	UNIT	UNIT COST	TOTAL	NOTES	
64	Crushed Stone (assume 18" depth)	150	cy	\$ 30.00	\$ 4,500.00		
65	36" Diameter Reinforced Concrete Pipe	200	lf	\$ 150.00	\$ 30,000.00	4 rows x 50'	
66	Flared End Pipe	8	ea	\$ 1,600.00	\$ 12,800.00		
67	Misc. Concrete to Stabilize Culvert Piping	10	cy	\$ 200.00	\$ 2,000.00		
68	Import Structural Fill	600	cy	\$ 35.00	\$ 21,000.00	assume 4'-6" Depth	
69	Rough Grading	550	sy	\$ 1.50	\$ 825.00		
70	Geotextile Fabric	6,000	sf	\$ 0.60	\$ 3,600.00		
71	Trap Rock on Sloped Surfaces	60	cy	\$ 50.00	\$ 3,000.00		
72	Gas Service:						
73	-Piping and Trenching	Assume Provided by Gas Company					
74	Primary and Secondary Electrical Service:						
75	-Primary Conduit and Ductbank Encasement - 2-4"	375	lf	\$ 160.00	\$ 60,000.00		
76	-Secondary Conduit and Ductbank Encasement 4-4"	80	lf	\$ 240.00	\$ 19,200.00		
77	-Conduit Riser on Utility Pole	1	loc	\$ 1,000.00	\$ 1,000.00		
78	-Tie Primary Service to Utility Pole	by Utility Company					
79	-Transformer Pad	in Site Concrete					
80	-Emergency Generator Ductbank	in Main Building Electrical					
81	-Excavate/Backfill for Ductbanks	455	lf	\$ 40.00	\$ 18,200.00		
82	Communications:						
83	-Conduit and Concrete Encasement - 4-4"	375	lf	\$ 240.00	\$ 90,000.00		
84	-Conduit Riser on Utility Pole	1	loc	\$ 1,500.00	\$ 1,500.00		
85	-Excavate/Backfill for Ductbank	375	lf	\$ 40.00	\$ 15,000.00		
86	Subtotal				\$ 630,750.00		
87							
88	Site Lighting:						
89	Light Poles and Bases	14	ea	\$ 4,500.00	\$ 63,000.00	allowance	
90	Flagpole Lights and Lights to Street Sign	4	ea	\$ 1,000.00	\$ 4,000.00		
91	Misc. Site Lighting/Light Bollards	1	allow	\$ 7,500.00	\$ 7,500.00		
92	Street Lights	Not Included					
93	Conduit and Wire for Site Lights	1,300	lf	\$ 20.00	\$ 26,000.00		
94	Timer/Control for Site Lights	1	allow	\$ 1,000.00	\$ 1,000.00		
95	Trench for Site Lighting Conduit	1,300	lf	\$ 10.00	\$ 13,000.00		
96	Subtotal				\$ 114,500.00		
97							
98	Site Paving, Concrete and Curbing						
99	Granite Curbs at Street Curb Cut	1	allow	\$ 1,000.00	\$ 1,000.00		
100	Precast Curbing in Drives and Parking Areas	2,300	lf	\$ 38.00	\$ 87,400.00		
101	Plating/Patching Street for Sewer and Water tie-in	in Site Utility Costs					
102	Asphalt Paving at Parking Areas (3-1/2")	840	sy	\$ 30.00	\$ 25,200.00		
103	Asphalt Paving at Drives and Apparatus Areas (4")	4,350	sy	\$ 32.00	\$ 139,200.00		
104	Parking Lot Striping	49	sps	\$ 25.00	\$ 1,225.00		
105	Handicap Space Symbols and Crosshatching	2	loc	\$ 100.00	\$ 200.00		
106	Crosswalks	None					
107	Misc. Lane Striping and Crosshatched Areas	1	allow	\$ 1,500.00	\$ 1,500.00		
108	Retaining Walls	1	allow	\$ 60,000.00	\$ 60,000.00		
109	Concrete Transformer Pad	1	allow	\$ 3,500.00	\$ 3,500.00		
110	Dumpster Pad	260	sf	\$ 15.00	\$ 3,900.00		
111	Concrete Sidewalks	3,670	sf	\$ 8.00	\$ 29,360.00		
112	Aprons at Apparatus	in Building Costs					
113	Tactile Warning Strips and Haunch at Wheelchair Ramps	1	loc	\$ 500.00	\$ 500.00		
114	Concrete Footings for Flagpoles	2	ea	\$ 1,000.00	\$ 2,000.00		
115	Subtotal				\$ 354,985.00		
116							
117	Site Amenities						
118	Wood Gaurdrail at Retaining Walls and Wetlands	500	lf	\$ 75.00	\$ 37,500.00		
119	Wood Gaurdrail at Culvert Crossing	140	lf	\$ 75.00	\$ 10,500.00		
120	Dumpster Stockade Fence	52	lf	\$ 75.00	\$ 3,900.00		
121	Gate Hardware for Dumpster Enclosure	1	allow	\$ 1,000.00	\$ 1,000.00		
122	Bike Rack including Concrete Footing (allow)	None					
123	Metal Benches including Concrete Footing (allow)	None					
124	Bollards at Transformer	4	ea	\$ 700.00	\$ 2,800.00		
125	Flagpoles	2	ea	\$ 4,000.00	\$ 8,000.00		
126	HC Parking Signage	2	ea	\$ 125.00	\$ 250.00		
127	Traffic Signage	1	allow	\$ 1,000.00	\$ 1,000.00		

estimate by:
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 Newton, MA

Estimate for: **PROPOSED FIRE HEADQUARTERS, Bridgewater, MA**
MAIN FIRE STATION BUILDING

October 30, 2021

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 Gross Site Area: Approximately 2 Acres

	ITEM	QUANTITY	UNIT	UNIT COST	TOTAL	NOTES
128	Building Identification Sign at Street	1	allow	\$ 7,500.00	\$ 7,500.00	
129	Subtotal				\$ 72,450.00	
130						
131	Landscaping					
132	12" Loam for Lawns and Planting Areas by Building	125	cy	\$ 60.00	\$ 7,500.00	
133	6" Loam to Dress up edge of Site	160	cy	\$ 60.00	\$ 9,600.00	1450' x 6' width
134	New Trees and Shrubs	1	allow	\$ 15,000.00	\$ 15,000.00	
135	Prune Existing Trees along Edge of Drives	1	allow	\$ 5,000.00	\$ 5,000.00	
136	Mulch	1	allow	\$ 2,500.00	\$ 2,500.00	
137	Hydroseed	12,000	sf	\$ 0.20	\$ 2,400.00	
138	Irrigation	Not Included				
139	<u>Passive Recreation Trail:</u>					
140	-Selective Tree and Brush Removal	1	allow	\$ 10,000.00	\$ 10,000.00	
141	-Clear and Grub (small machine)	6,400	sf	\$ 1.00	\$ 6,400.00	approx. 800 lf x 8' wide
142	-Pruning of Existing Trees and Overgrowth	1	allow	\$ 2,500.00	\$ 2,500.00	
143	-Rough Grading	710	sy	\$ 2.00	\$ 1,420.00	
144	-6" Compacted Gravel	120	cy	\$ 40.00	\$ 4,800.00	
145	-Stone and Stone Dust Surface	4,800	sf	\$ 3.00	\$ 14,400.00	6' path
146	-6" Loam Along Edge	30	cy	\$ 60.00	\$ 1,800.00	
147	-Seeding along Path Edge	1,600	sf	\$ 0.30	\$ 480.00	
148	-Signage	1	allow	\$ 1,000.00	\$ 1,000.00	
149	Subtotal				\$ 84,800.00	
150						

estimate by:
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Newton, MA

Estimate for: **PROPOSED FIRE HEADQUARTERS, Bridgewater, MA**
MAIN FIRE STATION BUILDING

October 30, 2021

Ref Dwgs: Schematic Floor Plans and Building Elevation by Jacunski Humes Architects dated September 17, 2021
Gross Sq Ft: 26,508 sf (includes "Future Expansion Space"). Mezzanine areas excluded from GSF, but included in cost.

	ITEM	QUANTITY	UNIT	UNIT COST	TOTAL	NOTES
1	Foundation Excavation					
2	Excavate for Building Assume 2' Average Cut	1,500	cy	\$ 7.00	\$ 10,500.00	
3	Excavate for Footings and Frost Walls	700	cy	\$ 9.00	\$ 6,300.00	
4	Excavate for Interior CMU Thickened Slab	30	cy	\$ 15.00	\$ 450.00	
5	General Backfill of Foundation	1,265	cy	\$ 12.00	\$ 15,180.00	
6	Perimeter Drain	700	lf	\$ 25.00	\$ 17,500.00	
7	Proof Roll Subgrade	20,000	sf	\$ 0.15	\$ 3,000.00	
8	4" Crushed Stone under Slabs	230	cy	\$ 30.00	\$ 6,900.00	
9	Gravel for Slabs (12")	700	cy	\$ 35.00	\$ 24,500.00	
10	Gravel for Patio (12")	21	cy	\$ 35.00	\$ 735.00	
11	Trenching for Interior Piping and Trenches	600	lf	\$ 12.00	\$ 7,200.00	allowance
12	Excavate /Backfill for Generator Ductbank	90	lf	\$ 40.00	\$ 3,600.00	
13	Localized Dewatering	1	allow	\$ 5,000.00	\$ 5,000.00	
14	Truck Out Overburden to Landfill	965	cy	\$ 22.00	\$ 21,230.00	
15	Contaminated Soil Removal	Not Included				
16	Ledge Removal	Not Included				
17	Subtotal				\$ 122,095.00	
18						
19	Concrete					
20	Interior Spread Footings (17)					
21	-Formwork	510	sfca	\$ 9.00	\$ 4,590.00	assume 5x5x1-6
22	-Rebar	1,360	lbs	\$ 1.30	\$ 1,768.00	assume 80 lbs/footing
23	-Concrete	24	cy	\$ 195.00	\$ 4,680.00	
24	Perimeter Column Footings (28)					
25	-Formwork	224	sfca	\$ 9.00	\$ 2,016.00	assume 4x4x1
26	-Rebar	1,400	lbs	\$ 1.30	\$ 1,820.00	assume 50 lbs/footing
27	-Concrete	17	cy	\$ 195.00	\$ 3,315.00	
28	Entry Canopy Footings (1)					
29	-Formwork	16	sfca	\$ 9.00	\$ 144.00	assume 4x4x1
30	-Rebar	60	lbs	\$ 1.30	\$ 78.00	assume 60 lbs/footing
31	-Concrete	1	cy	\$ 195.00	\$ 195.00	
32	Column Piers	31	ea	\$ 500.00	\$ 15,500.00	
33	Perimeter Strip Footings (661 lf)					
34	-Formwork	1,350	sfca	\$ 9.00	\$ 12,150.00	assume 1x3
35	-Rebar	3,305	lbs	\$ 1.30	\$ 4,296.50	assume 5 lbs/lf
36	-Concrete	74	cy	\$ 195.00	\$ 14,430.00	
37	Interior Strip Footings (110 lf)					
38	-Formwork	220	sfca	\$ 9.00	\$ 1,980.00	assume 1x2
39	-Rebar	440	lbs	\$ 1.30	\$ 572.00	assume 4 lbs/lf
40	-Concrete	8	cy	\$ 195.00	\$ 1,560.00	
41	Perimeter Frost Walls					
42	-Formwork	4,650	sfca	\$ 10.00	\$ 46,500.00	assume 1-2 thickness
43	-Rebar	3,966	lbs	\$ 1.30	\$ 5,155.80	assume 6 lbs/lf
44	-Concrete	101	cy	\$ 195.00	\$ 19,695.00	
45	Set Column Base Plates	48	ea	\$ 150.00	\$ 7,200.00	
46	SOG (5")	9,800	sf	\$ 10.00	\$ 98,000.00	
47	SOG (8")	8,500	sf	\$ 12.50	\$ 106,250.00	
48	Thickened slab/rebar for Interior CMU walls	18	cy	\$ 225.00	\$ 4,050.00	
49	Moisture Mitigation Additive (excludes Apparatus Wing)	20,160	sf	\$ 1.50	\$ 30,240.00	
50	Concrete Apron at Apparatus (8")	1,160	sf	\$ 12.00	\$ 13,920.00	assume 8' width
51	Concrete Stoops at Entries (12")	366	sf	\$ 15.00	\$ 5,490.00	
52	Patio Concrete (6")	570	sf	\$ 10.50	\$ 5,985.00	
53	Formwork for Trench Drains	560	sf	\$ 15.00	\$ 8,400.00	

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Gross Sq Ft: 26,508 sf (includes "Future Expansion Space"). Mezzanine areas excluded from GSF, but included in cost.

	ITEM	QUANTITY	UNIT	UNIT COST	TOTAL	NOTES
54	Formwork for Misc. Slab Depressions	1	allow	\$ 2,500.00	\$ 2,500.00	
55	Formwork for Misc Openings/Doors in Foundation Walls	1	allow	\$ 2,500.00	\$ 2,500.00	
56	Concrete on Metal Deck	10,360	sf	\$ 8.00	\$ 82,880.00	
57	Concrete Fill in Metal Pan Stairs	2	flights	\$ 2,500.00	\$ 5,000.00	
58	Concrete base for Lockers	116	lf	\$ 25.00	\$ 2,900.00	
59	Mechanical Equipment Pads	1	allow	\$ 5,000.00	\$ 5,000.00	
60	Subtotal				\$ 520,760.30	
61						
62	Masonry					
63	8" CMU at Exterior Walls (Apparatus and Northeast Stair)	4,580	sf	\$ 32.00	\$ 146,560.00	
64	8" CMU at Fire Tower	3,650	sf	\$ 34.00	\$ 124,100.00	
65	2" Glazed Block Veneer for Interior of Fire Tower	3,150	sf	\$ 30.00	\$ 94,500.00	
66	8" Standard CMU	4,720	sf	\$ 28.00	\$ 132,160.00	
67	Set Loose Lintels in CMU	20	ea	\$ 150.00	\$ 3,000.00	
68	Precast Watertable Panels 3-6" High	1,782	sf	\$ 60.00	\$ 106,920.00	
69	Precast Profiled Cap on Watertable	500	lf	\$ 75.00	\$ 37,500.00	
70	Precast Precast Sign Panel	122	sf	\$ 70.00	\$ 8,540.00	
71	Precast Apparatus Bay Number Panels	90	sf	\$ 60.00	\$ 5,400.00	
72	Carved Letters and Numbers	35	chrtrs	\$ 75.00	\$ 2,625.00	
73	Precast Medallions at Fire Tower	18	ea	\$ 400.00	\$ 7,200.00	
74	Precast Coping at Parapet	24	lf	\$ 120.00	\$ 2,880.00	
75	Precast Cornice Band	71	lf	\$ 120.00	\$ 8,520.00	
76	Precast Eave and Rake Trim Main Roof	PVC Trim in Rough Carpentry				
77	Precast Rake and Eave Trim at Dormers	PVC Trim in Rough Carpentry				
78	Precast Trim At Balcony Door	20	lf	\$ 60.00	\$ 1,200.00	
79	Precast Concrete Sills	118	lf	\$ 60.00	\$ 7,080.00	
80	Precast Concrete Headers	300	lf	\$ 60.00	\$ 18,000.00	
81	Precast Profiled Cap at Fire Tower	230	sf	\$ 90.00	\$ 20,700.00	
82	Precast Trim Around Fire Tower Louvers	220	sf	\$ 70.00	\$ 15,400.00	
83	Brick Veneer at Headquarters Wing	7,265	sf	\$ 40.00	\$ 290,600.00	
84	Brick Veneer at Apparatus Wing and Fire Tower	6,960	sf	\$ 40.00	\$ 278,400.00	
85	Misc. Brick Detailing	1	allow	\$ 10,000.00	\$ 10,000.00	
86	Grout Hollow Metal Door Frames	24	ea	\$ 100.00	\$ 2,400.00	
87	Thruwall Flashings	955	lf	\$ 10.00	\$ 9,550.00	
88	Scaffolding and Washdown		in units			
89	Subtotal				\$ 1,333,235.00	
90						
91	Structural Steel					
92	2nd Floor Supported Floor Deck Framing	56.5	tons	\$ 4,000.00	\$ 226,000.00	assume 14#/sf x 8,070 sf
93	Framing for Mezzanines	13.7	tons	\$ 4,000.00	\$ 54,800.00	assume 12#/sf x 2,283 sf
94	Attic Framing at Headquarters Building to Support Light Gauge Trusses	37.0	tons	\$ 4,000.00	\$ 148,000.00	assume 8#/sf x 9,250 sf
95	Sloped Roof Framing at Apparatus	57.8	tons	\$ 4,000.00	\$ 231,200.00	assume 14#/sf x 8,250 sf
96	Galvanized Steel Roof Framing for Fire Tower	3.0	tons	\$ 5,000.00	\$ 15,000.00	assume 12#/sf x 500 sf
97	Rear Canopy Framing	0.9	tons	\$ 4,000.00	\$ 3,600.00	assume 12#/sf x 152 sf
98	Exterior Side Canopy Framing	2	loc	\$ 2,500.00	\$ 5,000.00	
99	Framing and Deck for Exterior Balcony ay Fire Tower	1	allow	\$ 2,500.00	\$ 2,500.00	
100	Dunnage and Reinforcing for Mechanical Equipment	1	allow	\$ 25,000.00	\$ 25,000.00	
101	Brace Framing	1	allow	\$ 20,000.00	\$ 20,000.00	
102	Misc. Detailing for Beam Penetrations and Connections	1	allow	\$ 10,000.00	\$ 10,000.00	
103	Misc. Imbedded Items and Ledgers at CMU	1	allow	\$ 10,000.00	\$ 10,000.00	
104	Column Base Plates and Anchor Bolts (furnish only)	42	ea	\$ 200.00	\$ 8,400.00	
105	Metal Floor Deck (including Mezzanine)	10,050	sf	\$ 4.00	\$ 40,200.00	
106	Shear Studs	10,050	sf	\$ 1.25	\$ 12,562.50	

estimate by:
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Newton, MA

Estimate for: **PROPOSED FIRE HEADQUARTERS, Bridgewater, MA**
MAIN FIRE STATION BUILDING

October 30, 2021

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	ITEM	QUANTITY	UNIT	UNIT COST	TOTAL	NOTES
107	Metal Roof Decking	22,000	sf	\$ 3.75	\$ 82,500.00	
108	Subtotal				\$ 894,762.50	
109						
110	Miscellaneous Metal					
111	Winder Stairs with Grated Treads and Railings at Fire Tower	3	flights	\$ 22,000.00	\$ 66,000.00	Galvanized
112	Color Galvaized Railings at Fire Tower Exterior Balcony	14	lf	\$ 300.00	\$ 4,200.00	
113	Railings at Mezzanine	178	lf	\$ 150.00	\$ 26,700.00	
114	Hose Drying Structure, Grating and Railings	1	allow	\$ 10,000.00	\$ 10,000.00	
115	Hose Drying Rack	1	ea	\$ 3,000.00	\$ 3,000.00	
116	Hanging Poles for Gear	2	ea	\$ 750.00	\$ 1,500.00	
117	Fire Pole and Safety Rails	1	ea	\$ 7,500.00	\$ 7,500.00	
118	Metal Pan Egress Stairs	2	flights	\$ 16,000.00	\$ 32,000.00	
119	Wire Mesh Cage Partition and Sliding Mesh Door	11	lf	\$ 200.00	\$ 2,200.00	
120	Boom Lift at Mezzanine	1	ea	\$ 2,500.00	\$ 2,500.00	
121	Ladder to Roof Hatch at Low Roof	1	ea	\$ 2,000.00	\$ 2,000.00	not shown
122	Bollards at Apparatus Doors	16	ea	\$ 800.00	\$ 12,800.00	
123	Misc. Pipe Guards and Bollards	1	allow	\$ 2,500.00	\$ 2,500.00	
124	Cast Iron Trench Drain Frames and Grates (assume 8" wide)	280	lf	\$ 140.00	\$ 39,200.00	
125	Frames at Appartus Bay OH Doors	8	ea	\$ 4,000.00	\$ 32,000.00	
126	Relieving Angles for Brick at Fire Tower	92	lf	\$ 80.00	\$ 7,360.00	
127	Relieving Angles to Support Brick above Flat Roof	61	lf	\$ 80.00	\$ 4,880.00	east elevation of Apparatus
128	Loose Lintels for Masonry Single Door Openings	16	ea	\$ 200.00	\$ 3,200.00	
129	Loose Lintels for Masonry Pair Door Openings	8	ea	\$ 375.00	\$ 3,000.00	
130	Hung Lintel at Entry Overhang	18	lf	\$ 150.00	\$ 2,700.00	
131	Steel Framing for Folding Partition Track	32	lf	\$ 200.00	\$ 6,400.00	
132	Misc. Steel Reinforcement/Back-up for Precast Elements	1	allow	\$ 25,000.00	\$ 25,000.00	
133	Misc. Steel for Mech. Equipment Support			in Structural Steel		
134	Clip Angles for CMU	1	allow	\$ 10,000.00	\$ 10,000.00	
135	Misc. Metal not Itemized Above	26,350	sf	\$ 1.00	\$ 26,350.00	
136	Subtotal				\$ 332,990.00	
137						
138	Rough Carpentry					
139	<u>Exterior:</u>					
140	-LGMF and Sheathing at Exterior Walls and Soffits			in Drywall		
141	-LGMF and Sheathing at Clerestory Sidewalls			in Drywall		
142	-Plywood Sheathing on Backside of Parapets			In Drywall		
143	-Plywood Sheathing over Metal Roof Decking at Sloped Roofs	21,500	sf	\$ 4.00	\$ 86,000.00	
144	-Built-up Blocking at Upper Flat Roof Parapets	224	lf	\$ 24.00	\$ 5,376.00	
145	-Built-up Blocking at Upper Flat Roof Parapet Copings	24	lf	\$ 16.00	\$ 384.00	
146	-Built-up Perimeter Blocking at Canopy Roofs	120	lf	\$ 16.00	\$ 1,920.00	
147	-Framing and Blocking at Roof Rakes and Eaves	724	lf	\$ 20.00	\$ 14,480.00	
148	-1x6 PVC Trim for Rakes and Eaves at Dormers	372	lf	\$ 12.00	\$ 4,464.00	
149	-2 Piece PVC Trim at Main Roof Rakes and Eaves	352	lf	\$ 20.00	\$ 7,040.00	
150	-PVC T&G Cladding at Entry and Canopy Soffits	417	sf	\$ 16.00	\$ 6,672.00	
151	-Blocking at Roof Hatch	1	loc	\$ 200.00	\$ 200.00	
152	-Blocking at Misc. MEP Roof Penetrations	1	allow	\$ 2,500.00	\$ 2,500.00	
153	-Blocking at Window, Storefront and Door Openings	935	lf	\$ 6.00	\$ 5,610.00	
154	-Misc. Exterior Blocking	1	allow	\$ 5,000.00	\$ 5,000.00	
155	<u>Interior:</u>					
156	-Toilet Accessory Blocking	8	baths	\$ 250.00	\$ 2,000.00	
157	-Electric Backboards with 2x4 Blocking	1	allow	\$ 2,500.00	\$ 2,500.00	
158	-Blocking for Millwork/Lockers/Counters			in Drywall		
159	-Blocking for Cable Trays	1	allow	\$ 2,000.00	\$ 2,000.00	

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Estimate for: **PROPOSED FIRE HEADQUARTERS, Bridgewater, MA**
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	ITEM	QUANTITY	UNIT	UNIT COST	TOTAL	NOTES
160	-Block for Interior HM Frames and Transaction Windows in Drywall	81	opngs	\$ 75.00	\$ 6,075.00	
161	-Misc. Rough Framing, Firestopping and Blocking	1	allow	\$ 5,000.00	\$ 5,000.00	
162	Subtotal				\$ 157,221.00	
163						
164	Finish Carpentry/Millwork					
165	<u>First Floor:</u>					
166	-Recessed Lockable Display Cases in Vestibule	2	ea	\$ 2,000.00	\$ 4,000.00	
167	-Watch Room Solid Surface Counter and Supports	24	lf	\$ 225.00	\$ 5,400.00	
168	-Watch Room Transaction Counter - Solid Surface	8	lf	\$ 100.00	\$ 800.00	
169	-Exam Room Base Cabinets	7	lf	\$ 400.00	\$ 2,800.00	
170	-Exam Room Upper Cabinets	7	lf	\$ 275.00	\$ 1,925.00	
171	-Exam Room Countertop - PLAM	16	sf	\$ 30.00	\$ 480.00	
172	-Fire Prevention Transaction Counter - Solid Surface	7	lf	\$ 100.00	\$ 700.00	
173	-Work Room Base Cabinets	9	lf	\$ 400.00	\$ 3,600.00	
174	-Work Room Upper Cabinets	9	lf	\$ 275.00	\$ 2,475.00	
175	-Work Room Countertop - PLAM	21	sf	\$ 30.00	\$ 630.00	
176	-Recharge Station Solid Surface Counter and Supports	11	lf	\$ 225.00	\$ 2,475.00	
177	-Rear Vestibule Monitor Solid Surface Counter and Supports	11	lf	\$ 225.00	\$ 2,475.00	
178	-Kitchen Base Cabinets	37	lf	\$ 450.00	\$ 16,650.00	
179	-Kitchen Island Cabinets	4	lf	\$ 550.00	\$ 2,200.00	
180	-Kitchen Upper Cabinets	29	lf	\$ 300.00	\$ 8,700.00	
181	-Kitchen Countertops - Solid Surface	94	lf	\$ 85.00	\$ 7,990.00	
182	-Kitchen Cabinet Pull-outs/Accessories	1	allow	\$ 1,000.00	\$ 1,000.00	
183	-Cubbies and Counter at Firepole	15	lf	\$ 400.00	\$ 6,000.00	
184	-Mechanic Work Bench	26	lf	\$ 300.00	\$ 7,800.00	
185	-Decon Base Cabinet and Counter - Stainless Steel	15	lf	\$ 750.00	\$ 11,250.00	
186	-Impact Resistant Wainscot (3'-6") Panels in Hallways	1,140	sf	\$ 30.00	\$ 34,200.00	1st Floor Only
187	-Corner Guards for First Floor Hallways	5	ea	\$ 150.00	\$ 750.00	
188	-Running Trim and Millwork in Conference Room	1	allow	\$ 2,500.00	\$ 2,500.00	
189	-Running Trim and Millwork in EOC	1	allow	\$ 10,000.00	\$ 10,000.00	
190	<u>2nd Floor:</u>					
191	-Laundry Base Cabinets	15	lf	\$ 400.00	\$ 6,000.00	
192	-Laundry Countertops and 4" Backsplash - Solid Surface	35	sf	\$ 85.00	\$ 2,975.00	
193	-Lav Countertops, Splash and Skirt - Solid Surface	19	sf	\$ 125.00	\$ 2,375.00	
194	-Janitor Closet Shelving	12	lf	\$ 80.00	\$ 960.00	
195	-Coat Hooks in Bunk Room	8	loc	\$ 200.00	\$ 1,600.00	
196	<u>General:</u>					
197	-Misc. Shelving	1	allow	\$ 5,000.00	\$ 5,000.00	
198	-Misc Running Trim	1	allow	\$ 2,500.00	\$ 2,500.00	
199	-Window Sills - Solid Surface	137	lf	\$ 70.00	\$ 9,590.00	
200	-Install Doors and Hardware	in Doors, Frames and Hardware				
201	Subtotal				\$ 167,800.00	
202						
203	Moisture Protection					
204	Foundation Dampproofing	2,650	sf	\$ 3.00	\$ 7,950.00	
205	Concrete Floor Sealer	in Flooring				
206	Mastic Waterproofing at Exterior CMU	7,915	sf	\$ 6.00	\$ 47,490.00	
207	Peel and Stick AVB at Exterior Sheathing	7,917	sf	\$ 7.00	\$ 55,419.00	
208	Wrap Peel and Stick into Window and Door Openings	42	loc	\$ 150.00	\$ 6,300.00	
209	Flashing to Brick above Precast Base	500	lf	\$ 12.00	\$ 6,000.00	furnish to Mason
210	Flashings at Brick Relieving Angles	155	lf	\$ 15.00	\$ 2,325.00	furnish to Mason
211	Flashing at Window and Door Headers	300	lf	\$ 15.00	\$ 4,500.00	furnish to Mason
212	Flashing and Waterproof at Baclony	1	allow	\$ 1,000.00	\$ 1,000.00	

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	ITEM	QUANTITY	UNIT	UNIT COST	TOTAL	NOTES
213	Flashing at Rakes and Eaves	724	lf	\$ 10.00	\$ 7,240.00	
214	Caulking of Slab Control Joints	1	allow	\$ 10,000.00	\$ 10,000.00	
215	Exterior Caulking at Window, Door and Storefront Openings	1,450	lf	\$ 8.00	\$ 11,600.00	
216	Exterior Caulking at Louvers	176	lf	\$ 8.00	\$ 1,408.00	
217	Exterior Caulking at Exterior Masonry Control Joints	1	allow	\$ 5,000.00	\$ 5,000.00	
218	Caulking of Interior CMU Control Joints	1	allow	\$ 2,500.00	\$ 2,500.00	
219	Caulking of Door Frames in CMU	24	ea	\$ 250.00	\$ 6,000.00	
220	Misc. Exterior Caulking	1	allow	\$ 2,500.00	\$ 2,500.00	
221	Misc. Interior Caulking	1	allow	\$ 5,000.00	\$ 5,000.00	
222	Subtotal				\$ 182,232.00	
223						
224	Roofing					
225	<u>Flat Roofs:</u>					
226	-Membrane Flat Roof with Insulation at Level 2	1,200	sf	\$ 20.00	\$ 24,000.00	
227	-Membrane Roofs at Canopies	260	sf	\$ 14.00	\$ 3,640.00	
228	-Counterflashing at Membrane Roofs	262	sf	\$ 40.00	\$ 10,480.00	
229	-Metal Copings at Canopies	72	sf	\$ 30.00	\$ 2,160.00	
230	-Scuppers at Canopy Roofs	3	ea	\$ 400.00	\$ 1,200.00	
231	-Metal Flashings at Parapets	51	lf	\$ 20.00	\$ 1,020.00	
232	-Misc Flashing of Mechanical and Roof Drain Penetrations	1	allow	\$ 5,000.00	\$ 5,000.00	
233	-Misc. Roof Accessories (Walkway Pads and Safety Railings)	1	allow	\$ 5,000.00	\$ 5,000.00	
234	-Roof Access Hatch	1	ea	\$ 3,000.00	\$ 3,000.00	
235	<u>Sloped Roofs:</u>					
236	-Standing Seam Metal Roofs	21,500	sfra	\$ 16.00	\$ 344,000.00	
237	-Ridge Caps	552	lf	\$ 30.00	\$ 16,560.00	
238	-Valleys	506	lf	\$ 40.00	\$ 20,240.00	
239	-EdgeTrim	692	lf	\$ 20.00	\$ 13,840.00	
240	-Metal Soffit at Fire Tower Roof	200	sf	\$ 20.00	\$ 4,000.00	
241	-Counterflashing	120	lf	\$ 40.00	\$ 4,800.00	
242	-Gutters	118	lf	\$ 20.00	\$ 2,360.00	
243	-Downspouts	438	lf	\$ 14.00	\$ 6,132.00	
244	-Downspout Boots	23	ea	\$ 300.00	\$ 6,900.00	
245	-Misc Flashing of Mechanical Penetrations	1	allow	\$ 5,000.00	\$ 5,000.00	
246	-Snow Guards and Roof Davits for Safety Lifelines	1	allow	\$ 10,000.00	\$ 10,000.00	
247	Subtotal				\$ 489,332.00	
248						
249	Insulation					
250	Rigid Insulation 2" at Foundation Perimeter	2,650	sf	\$ 2.50	\$ 6,625.00	
251	Rigid Insulation Under Slab on Grade	18,300	sf	\$ 2.50	\$ 45,750.00	
252	2" Rigid Insulation at Exterior CMU	4,580	sf	\$ 3.50	\$ 16,030.00	
253	Spray Foam Insulation at Exterior LGMF	8,000	sf	\$ 4.50	\$ 36,000.00	
254	12" Batt Insulation in Attic	8,000	sf	\$ 5.00	\$ 40,000.00	
255	Vinyl Clad Insulation at Apparatus Wing Roof	8,700	sf	\$ 5.00	\$ 43,500.00	
256	6" Insulation at Entry Soffit	120	sf	\$ 6.00	\$ 720.00	
257	Exterior Soffit Insulation			in Spray Foam		
258	Fire Stopping			in MEP Trades		
259	Interior Vapor Barrier on Walls and 2nd Floor Ceiling	17,000	sf	\$ 0.60	\$ 10,200.00	
260	Misc. insulation at Windows and Exterior Doors	42	opngs.	\$ 50.00	\$ 2,100.00	
261	Subtotal				\$ 200,925.00	
262						
263	Windows, Glass and Metal Panels					
264	<u>Exterior:</u>					
265	-Aluminum Windows	900	sf	\$ 90.00	\$ 81,000.00	
266	-Storefront at Watch Room	158	sf	\$ 80.00	\$ 12,640.00	

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	ITEM	QUANTITY	UNIT	UNIT COST	TOTAL	NOTES
267	-Storefront at Dining/Dayroom	284	sf	\$ 80.00	\$ 22,720.00	
268	-Exterior Aluminum Doors including Hardware	5	lvs	\$ 3,700.00	\$ 18,500.00	
269	-Automatic Sliding Door Pairs and Frames at Vestibule (exterior)	1	pair	\$ 13,000.00	\$ 13,000.00	
270	-Sidelights and Transom at Vestibule Automatic Doors (exterior)	140	sf	\$ 85.00	\$ 11,900.00	
271	-Transoms over Exterior Doors	27	sf	\$ 80.00	\$ 2,160.00	
272	<u>Interior:</u>					
273	-Automatic Sliding Door Pairs and Frames at Vestibule (interior)	1	pair	\$ 12,000.00	\$ 12,000.00	
274	-Sidelights and Transom at Vestibule Automatic Doors (interior)	140	sf	\$ 75.00	\$ 10,500.00	
275	-Interior Storefront at Conference Room	120	sf	\$ 70.00	\$ 8,400.00	
276	-Interior Aluminum Sliding Doors including Hardware at Conf. Room	2	lvs	\$ 1,000.00	\$ 2,000.00	
277	-Interior Aluminum Doors including Hardware	2	lvs	\$ 3,200.00	\$ 6,400.00	
278	-Glazing for Display Cabinets at Vestibule	in Finish Carpentry				
279	-Transaction Windows	2	ea	\$ 1,750.00	\$ 3,500.00	
280	-Glazing in Borrowed Lites	276	sf	\$ 40.00	\$ 11,040.00	
281	-Mirrors at Lav Vanities	80	sf	\$ 30.00	\$ 2,400.00	
282	-Mirror at Fitness	160	sf	\$ 35.00	\$ 5,600.00	20' x 8'
283	Subtotal				\$ 223,760.00	
284						
285	<u>Doors, Frames, Hardware</u>					
286	14'x14' Overhead Glass Sectional Doors-Motorized	8	ea	\$ 14,000.00	\$ 112,000.00	
287	Glass Doors	in Glass and Glazing				
288	Folding Partition in EOC	in Specialties				
289	Exterior Single HM Doors and Frames	4	ea	\$ 850.00	\$ 3,400.00	
290	Exterior Pair HM Doors and Frames	2	ea	\$ 1,350.00	\$ 2,700.00	
291	Interior Single HM Doors and Frames	8	ea	\$ 800.00	\$ 6,400.00	
292	Interior Pair Metal Doors and Frames	6	ea	\$ 1,300.00	\$ 7,800.00	
293	Interior Prefinished Wood Door and HM Frame	58	ea	\$ 900.00	\$ 52,200.00	
294	Interior Prefinished Pair Wood Door and HM Frame	4	ea	\$ 1,450.00	\$ 5,800.00	
295	Exterior Door Hardware	8	lvs	\$ 1,200.00	\$ 9,600.00	
296	Interior Door Hardware	86	lvs	\$ 1,000.00	\$ 86,000.00	
297	Premium for Rated Doors and Hardware	10	ea	\$ 600.00	\$ 6,000.00	
298	Premium for Electrified Hardware	1	allow	\$ 7,500.00	\$ 7,500.00	
299	Misc Vision Panels in Doors	1	allow	\$ 5,000.00	\$ 5,000.00	
300	ADA Door Operator	2	lvs	\$ 4,000.00	\$ 8,000.00	
301	Transaction Windows	in Glass and Glazing				
302	<u>HM Borrowed Lite Frames:</u>					
303	-6' x 8'	2	ea	\$ 600.00	\$ 1,200.00	
304	-3' x 8'	2	ea	\$ 450.00	\$ 900.00	
305	-1' x 8' Sidelight	1	ea	\$ 300.00	\$ 300.00	
306	-2' x 8' Sidelight	1	ea	\$ 350.00	\$ 350.00	
307	-4-6" x 8'	3	ea	\$ 550.00	\$ 1,650.00	
308	Hardware for Aluminum Doors	in Windows and Glass				
309	Electrified Hardware	in Integrated Technology				
310	Install Doors and Hardware	94	lvs	\$ 225.00	\$ 21,150.00	
311	Keying	1	allow	\$ 5,000.00	\$ 5,000.00	
312	Subtotal				\$ 342,950.00	
313						
314	<u>Structural Light Gauge Metal Framing</u>					
315	<u>Exterior Wall and Soffit Framing and Sheathing:</u>					
316	-LGMF at Perimeter Walls	7,500	sf	\$ 8.00	\$ 60,000.00	
317	-LGMF Framing at Canopy Soffits and Fascias	332	sf	\$ 12.00	\$ 3,984.00	
318	-LGMF Framing at Entry Soffit	85	sf	\$ 6.00	\$ 510.00	
319	-LGMF Knee Walls and Parapet at Low Roof	330	sf	\$ 10.00	\$ 3,300.00	

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	ITEM	QUANTITY	UNIT	UNIT COST	TOTAL	NOTES
320	-Exterior Wall Sheathing	7,500	sf	\$ 4.00	\$ 30,000.00	
321	-Exterior Soffit and Fascia Sheathing	417	sf	\$ 4.50	\$ 1,876.50	
322	-Plywood Cladding on Parapet and Knee Wall	330	sf	\$ 4.00	\$ 1,320.00	
323	<u>Roof Framing:</u>					
324	-LGMF Trusses for Main Roofs at Headquarters Wing	8,500	sf	\$ 14.00	\$ 119,000.00	incl. blocking and bridging
325	-LGMF Roof Structure at Dormers at Headquarters Wing	1,400	sfsa	\$ 10.00	\$ 14,000.00	
326	-LGMF Roof Structure at Dormers in Apparatus Bays	1,670	sfsa	\$ 10.00	\$ 16,700.00	
327	-Roof Structure at Fire Tower		in Structural Steel			
328	-Metal Roof Decking		in Structural Steel			
329	-Plywood over Metal Decking		in Rough Carpentry			
330	Engineering for LGMF Structures	1	allow	\$ 10,000.00	\$ 10,000.00	
331	Subtotal				\$ 260,690.50	
332						
333	Drywall					
334	<u>Partitions:</u>					
335	-Regular 3-5/8" Stud Partitions	17,000	sf	\$ 9.50	\$ 161,500.00	
336	-Chase Walls	2,400	sf	\$ 8.00	\$ 19,200.00	
337	-One-Sided Partitions	3,285	sf	\$ 8.00	\$ 26,280.00	
338	-5/8" Drywall on Perimeter Framing	7,600	sf	\$ 2.75	\$ 20,900.00	
339	-Rated Drywall Premium for Various Partitions	1	allow	\$ 5,000.00	\$ 5,000.00	
340	-Premium for Bullet Resistant Partitions		None			
341	-Insulation-Interior Partitions	19,400	sf	\$ 1.00	\$ 19,400.00	
342	-Misc. Partitions and Chases Not Yet Shown	1	allow	\$ 10,000.00	\$ 10,000.00	
343	-Durock Premium at Tile Walls	2,680	sf	\$ 1.50	\$ 4,020.00	
344	-Misc Acoustical Construction Premium	1	allow	\$ 5,000.00	\$ 5,000.00	
345	-Concealed Blocking for Millwork, Fixtures and Equipment	1	allow	\$ 7,500.00	\$ 7,500.00	
346	-Framing for Misc. Recessed Equipment	1	allow	\$ 5,000.00	\$ 5,000.00	
347	<u>Ceilings:</u>					
348	-Rated Drywall Ceiling in Mechanical/Electrical Rooms	250	sf	\$ 15.00	\$ 3,750.00	
349	-Drywall Ceilings	2,265	sf	\$ 8.00	\$ 18,120.00	
350	-Drywall Ceiling Features in Lobby and EOC	1	allow	\$ 10,000.00	\$ 10,000.00	
351	-Drywall Interior Soffits/Fascia	1	allow	\$ 10,000.00	\$ 10,000.00	
352	-Insulated Drywall Baffle above Folding Partition Track	32	lf	\$ 80.00	\$ 2,560.00	
353	-Access Panels	1	allow	\$ 1,000.00	\$ 1,000.00	
354	Subtotal				\$ 329,230.00	
355						
356	Acoustic Ceilings					
357	2x2 Grid and Tile - First Floor	8,400	sf	\$ 5.50	\$ 46,200.00	
358	2x2 Grid and Tile - 2nd Floor	3,900	sf	\$ 5.50	\$ 21,450.00	
359	Ceiling in Expansion Space		None			
360	Attic Stock	250	sf	\$ 2.00	\$ 500.00	2% of total
361	Subtotal				\$ 68,150.00	
362						
363	Ceramic Tile					
364	<u>Porcelain Tile (at Public Lobby and Vestibule):</u>					
365	Floor	350	sf	\$ 30.00	\$ 10,500.00	
366	Base	60	lf	\$ 18.00	\$ 1,080.00	
367	<u>Ceramic Tile:</u>					
368	Floor	1,055	sf	\$ 20.00	\$ 21,100.00	
369	Base	400	lf	\$ 14.00	\$ 5,600.00	
370	Walls - 8' High at Toilet Rooms and Custodial Closet	2,680	sf	\$ 20.00	\$ 53,600.00	
371	Thresholds	10	ea	\$ 75.00	\$ 750.00	
372	Subtotal				\$ 92,630.00	

estimate by:
FV Consulting LLC
Newton, MA

Estimate for: **PROPOSED FIRE HEADQUARTERS, Bridgewater, MA**
MAIN FIRE STATION BUILDING

October 30, 2021

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Gross Sq Ft: 26,508 sf (includes "Future Expansion Space"). Mezzanine areas excluded from GSF, but included in cost.

	ITEM	QUANTITY	UNIT	UNIT COST	TOTAL	NOTES
373						
374	Flooring					
375	Rubber Base	3,200	lf	\$ 3.75	\$ 12,000.00	
376	SVT	5,420	sf	\$ 5.50	\$ 29,810.00	
377	Rubber Treads and Risers at Egress Stairs	40	rsrs	\$ 150.00	\$ 6,000.00	
378	Rubber Flooring at Fitness	425	sf	\$ 10.00	\$ 4,250.00	
379	Carpet Tile	3,200	sf	\$ 5.25	\$ 16,800.00	
380	Walk-Off Mats/Frames	in Specialties				
381	Epoxy Concrete Sealer (includes Mezzanine)	3,463	sf	\$ 1.25	\$ 4,328.75	
382	Epoxy Traffic Coat and Base	9,500	sf	\$ 9.50	\$ 90,250.00	
383	Misc. Floor Leveling	18,545	sf	\$ 0.50	\$ 9,272.50	
384	Moisture Mitigation	in Concrete				
385	Subtotal				\$ 172,711.25	
386						
387	Painting					
388	<u>Exterior:</u>					
389	-Paint Bollards	16	ea	\$ 75.00	\$ 1,200.00	
390	-Paint OH Door Frames at Apparatus	8	loc	\$ 500.00	\$ 4,000.00	
391	-Paint PVC Trim at Main Roofs	352	lf	\$ 5.00	\$ 1,760.00	
392	-Paint PVC Trim at Dormers	372	lf	\$ 4.00	\$ 1,488.00	
393	-Paint PVC T&G Soffits at Entry and Canopies	417	sf	\$ 2.00	\$ 834.00	
394	<u>Interior:</u>					
395	-Paint Walls GWB	30,970	sf	\$ 1.00	\$ 30,970.00	
396	-Paint CMU Walls at Apparatus	11,700	sf	\$ 2.00	\$ 23,400.00	
397	-Paint CMU Walls at Fire Tower	3,280	sf	\$ 2.00	\$ 6,560.00	
398	-Paint CMU Walls at Egress Stairs	3,100	sf	\$ 2.00	\$ 6,200.00	
399	-Door and Borrowed Lite Frames	91	ea	\$ 70.00	\$ 6,370.00	
400	-Paint HM Doors	28	lvs	\$ 80.00	\$ 2,240.00	
401	-Wood Doors	Assume Pre-finished				
402	-Paint Egress Stair Parts and Railings	2	flights	\$ 2,000.00	\$ 4,000.00	
403	-Paint Railings at Mezzanines	178	lf	\$ 10.00	\$ 1,780.00	
404	-Paint Plywood Backboards with Fire Retardant Paint	1	allow	\$ 1,000.00	\$ 1,000.00	
405	-Epoxy Floors and Base	in Flooring				
406	-Wall Covering	Not Included				
407	-Protective Wallcovering	Not Included				
408	-Drywall Ceilings	2,515	sf	\$ 1.00	\$ 2,515.00	
409	-Paint Exposed Ceiling Structure in Apparatus and Fire Tower	9,400	sf	\$ 2.00	\$ 18,800.00	
410	-Misc. Painting/Feature Wall Colors	1	allow	\$ 5,000.00	\$ 5,000.00	
411	Subtotal				\$ 118,117.00	
412						
413	Specialties/Accessories					
414	TP Holder	9	ea	\$ 50.00	\$ 450.00	
415	Lav Soap Dispenser	9	ea	\$ 50.00	\$ 450.00	
416	Hand Sanitizer Dispensers	1	allow	\$ 250.00	\$ 250.00	
417	Shower Soap Dispenser	5	ea	\$ 50.00	\$ 250.00	
418	Hand Dryers - 1st Floor Toilet Rooms	4	ea	\$ 450.00	\$ 1,800.00	
419	Paper Towel Dispensers - 2nd Floor Toilet Rooms	4	ea	\$ 250.00	\$ 1,000.00	
420	Sanitary Napkin Disposal	2	ea	\$ 726.00	\$ 1,452.00	
421	Grab Bars at WC	3	ea	\$ 250.00	\$ 750.00	
422	Grab Bars at Showers	1	ea	\$ 300.00	\$ 300.00	
423	Shower Curtain/Rod	5	ea	\$ 100.00	\$ 500.00	
424	Fold Down Shower seats	1	ea	\$ 400.00	\$ 400.00	
425	Robe Hooks	10	ea	\$ 25.00	\$ 250.00	

estimate by:
FV Consulting LLC
Newton, MA

Estimate for: **PROPOSED FIRE HEADQUARTERS, Bridgewater, MA**
MAIN FIRE STATION BUILDING

October 30, 2021

Ref Dwgs: Schematic Floor Plans and Building Elevation by Jacunski Humes Architects dated September 17, 2021
Gross Sq Ft: 26,508 sf (includes "Future Expansion Space"). Mezzanine areas excluded from GSF, but included in cost.

	ITEM	QUANTITY	UNIT	UNIT COST	TOTAL	NOTES
426	Framed Mirrors	5	ea	\$ 200.00	\$ 1,000.00	
427	Standard Toilet Partitions	1	ea	\$ 1,400.00	\$ 1,400.00	
428	HC Toilet Partitions	2	ea	\$ 1,700.00	\$ 3,400.00	
429	Urinal Screen	1	ea	\$ 600.00	\$ 600.00	
430	Mop and Broom Holder	1	ea	\$ 100.00	\$ 100.00	
431	Fire Extinguishers/cabinets	4	ea	\$ 350.00	\$ 1,400.00	
432	Fire Extinguishers on Brackets	2	ea	\$ 150.00	\$ 300.00	
433	Interior Code, Room ID and Wayfinding Signage	26,350	sf	\$ 0.50	\$ 13,175.00	
434	Exterior Building ID Signage	1	allow	\$ 5,000.00	\$ 5,000.00	
435	Dedication Plaque at Entry Vestibule	1	allow	\$ 1,000.00	\$ 1,000.00	
436	Gear Lockers- Full Height Custom Large w/Power & Vent	58	ea	\$ 1,600.00	\$ 92,800.00	
437	Property Lockers- Full Height Metal	60	ea	\$ 450.00	\$ 27,000.00	
438	Locker Benches	120	lf	\$ 100.00	\$ 12,000.00	
439	8' Wire Mesh Partition and Mesh Door	in Misc Metal				
440	Tack Boards and White Boards	1	allow	\$ 2,500.00	\$ 2,500.00	
441	Folding Partition - Assume 10' High	32	lf	\$ 600.00	\$ 19,200.00	
442	Manual Window Shades (at Windows and Day Room Storefront)	1,184	sf	\$ 8.50	\$ 10,064.00	
443	Motorized Projection Screen in EOC	1	ea	\$ 3,000.00	\$ 3,000.00	
444	Mounting Bracket for Projector in EOC	1	ea	\$ 500.00	\$ 500.00	
445	Mounting Bracket for TV in Day Room	1	ea	\$ 500.00	\$ 500.00	
446	Coat Hooks	in Finish Carpentry				
447	Corner Guards in Main Corridors	in Finish Carpentry				
448	Walk-Off Mats/Frames	220	sf	\$ 40.00	\$ 8,800.00	
449	Subtotal				\$ 211,591.00	
450						
451	Appliances					
452	<u>Main Kitchen:</u>					
453	-Refrigerator/Freezer	1	ea	\$ 5,000.00	\$ 5,000.00	
454	-Range	1	ea	\$ 7,500.00	\$ 7,500.00	
455	-Custom Range Hood with Ansul System	1	ea	\$ 12,000.00	\$ 12,000.00	
456	-Microwaves	1	ea	\$ 450.00	\$ 450.00	
457	-Dishwasher	1	ea	\$ 1,200.00	\$ 1,200.00	
458	-Garbage Disposal	1	ea	\$ 250.00	\$ 250.00	
459	<u>Miscellaneous:</u>					
460	-Commercial Washer/Dryer	Not Included				
461	-Residential Washer/Dryer	1	ea	\$ 3,000.00	\$ 3,000.00	
462	-Water Extractors	by Owner				
463	Subtotal				\$ 29,400.00	
464						
465	Elevator		None			
466	Subtotal				\$ -	
467						
468	Plumbing					
469	New Water Service	1	allow	\$ 7,500.00	\$ 7,500.00	
470	Backflow Preventor for HVAC Make-up Water	1	ea	\$ 600.00	\$ 600.00	
471	Gas Fired HWH and Circulator	1	ea	\$ 10,000.00	\$ 10,000.00	
472	Mixing Valve and Expansion Tank	1	ea	\$ 1,500.00	\$ 1,500.00	
473	Piping for HWH Equipment	1	allow	\$ 2,500.00	\$ 2,500.00	
474	Underslab Waste, Storm Water and Vent Piping (allowance)	600	lf	\$ 60.00	\$ 36,000.00	
475	Floor Drains	6	ea	\$ 800.00	\$ 4,800.00	
476	Floor Sinks in Trench Drains	4	ea	\$ 800.00	\$ 3,200.00	
477	Trench Drain Frames and Grates	in Misc. Metal				
478	Gas/Sand Separator	1	ea	\$ 7,500.00	\$ 7,500.00	

estimate by:
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Newton, MA

Estimate for: **PROPOSED FIRE HEADQUARTERS, Bridgewater, MA**
MAIN FIRE STATION BUILDING

October 30, 2021

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Gross Sq Ft: 26,508 sf (includes "Future Expansion Space"). Mezzanine areas excluded from GSF, but included in cost.

	ITEM	QUANTITY	UNIT	UNIT COST	TOTAL	NOTES
479	Trap Primers	1	allow	\$ 5,000.00	\$ 5,000.00	
480	Gas Piping	26,350	sf	\$ 1.00	\$ 26,350.00	
481	Above Grade Water, Waste and Pent Piping	in Fixture Units				
482	Water Closets	9	ea	\$ 4,500.00	\$ 40,500.00	
483	Urinals	5	ea	\$ 4,500.00	\$ 22,500.00	
484	Drop-in Lavs	4	ea	\$ 5,000.00	\$ 20,000.00	
485	Wall Hung Lavs	4	ea	\$ 5,250.00	\$ 21,000.00	
486	Showers	5	ea	\$ 5,500.00	\$ 27,500.00	
487	Drinking Fountain/Bottle Filler	2	ea	\$ 4,500.00	\$ 9,000.00	1 at Fitness; 1 general
488	Mop Receptor	1	ea	\$ 4,500.00	\$ 4,500.00	
489	Kitchen Sinks	1	ea	\$ 5,000.00	\$ 5,000.00	
490	Exam Sink	1	ea	\$ 5,000.00	\$ 5,000.00	
491	Laundry Sink	1	ea	\$ 5,000.00	\$ 5,000.00	
492	Decon Double Sink with Sideboards	1	ea	\$ 7,500.00	\$ 7,500.00	
493	Decon Deluge Shower and Drain	1	ea	\$ 6,500.00	\$ 6,500.00	
494	Fill Station Sink	1	ea	\$ 6,500.00	\$ 6,500.00	
495	Sinks in Apparatus Bays		None			
496	Washer/Dryer Hook-up and Piping	1	ea	\$ 3,500.00	\$ 3,500.00	
497	Water Extractor Drain Piping	1	ea	\$ 2,000.00	\$ 2,000.00	
498	Ice Maker Piping	1	ea	\$ 350.00	\$ 350.00	
499	Appliance Hookups	1	allow	\$ 2,500.00	\$ 2,500.00	
500	Piping and Hook-ups for Specialty Equipment	1	allow	\$ 10,000.00	\$ 10,000.00	
501	Roof Drains and Piping at Flat Roof	1,440	sf	\$ 7.50	\$ 10,800.00	
502	Exterior Sillcocks	4	ea	\$ 1,200.00	\$ 4,800.00	
503	Hose Bibbs	1	allow	\$ 5,000.00	\$ 5,000.00	
504	Compressed Air System and Reels	1	allow	\$ 50,000.00	\$ 50,000.00	
505	Pipe Insulation	26,350	sf	\$ 2.00	\$ 52,700.00	
506	Firesafing	1	allow	\$ 2,500.00	\$ 2,500.00	
507	Subtotal				\$ 429,600.00	
508						
509	Fire Protection					
510	Concealed Heads and Piping	14,350	sf	\$ 6.50	\$ 93,275.00	
511	Exposed Heads and Piping	14,340	sf	\$ 5.50	\$ 78,870.00	includes Mezzanine
512	Sprinkler Heads at Overhead Doors	16	ea	\$ 350.00	\$ 5,600.00	
513	Dry System for Attic Coverage	1	allow	\$ 7,500.00	\$ 7,500.00	
514	Sprinklers in Attic	9,250	sf	\$ 5.00	\$ 46,250.00	
515	Fire Pump	Not Included				Assume Adequate Pressure
516	Engineering	1	allow	\$ 10,000.00	\$ 10,000.00	
517	Subtotal				\$ 241,495.00	
518						
519	HVAC					
520	Headquarters Wing (excluding Future Expansion Space)	14,115	sf	\$ 48.00	\$ 677,520.00	
521	Future Expansion Space (HVAC equipment sizing only)	3,220	sf	\$ 25.00	\$ 80,500.00	distribution to space excluded
522	Temporary Unit Heaters for Expansion Area (allow)	4	ea	\$ 2,000.00	\$ 8,000.00	
523	Dedicated Systems for Technology	1	allow	\$ 25,000.00	\$ 25,000.00	
524	Apparatus Wing (Heating and Ventilating)	8,545	sf	\$ 32.00	\$ 273,440.00	
525	Destratification Fans at Apparatus	6	ea	\$ 2,500.00	\$ 15,000.00	
526	Mezzanine Areas		in above			
527	Apparatus Bays Hydronic Radiant Heating	8,545	sf	\$ 10.00	\$ 85,450.00	
528	Special Exhaust Systems at Apparatus	4	bays	\$ 40,000.00	\$ 160,000.00	
529	Fire Tower Exhaust Systems and Heat	1	allow	\$ 20,000.00	\$ 20,000.00	
530	Subtotal				\$ 1,344,910.00	
531						

estimate by:
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Newton, MA

Estimate for: **PROPOSED FIRE HEADQUARTERS, Bridgewater, MA**
MAIN FIRE STATION BUILDING

October 30, 2021

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Gross Sq Ft: 26,508 sf (includes "Future Expansion Space"). Mezzanine areas excluded from GSF, but included in cost.

	ITEM	QUANTITY	UNIT	UNIT COST	TOTAL	NOTES
532	Electric/Security					
533	Primary and Secondary Ductbanks					in Site Utilities
534	Transformer and Primary Cabling					by Utility Company
535	Secondary Cabling	240	lf	\$ 30.00	\$ 7,200.00	
536	Main Electric Service and Distribution	26,350	sf	\$ 7.00	\$ 184,450.00	
537	<u>Emergency Power:</u>					
538	-Diesel Emergency Generator (located in Out Building)	300	KW	\$ 425.00	\$ 127,500.00	
539	-Acoustical Weatherproof Generator Enclosure					Not Needed
540	-Automatic Transfer Switch	1	ea	\$ 5,000.00	\$ 5,000.00	
541	-Generator Docking Station	1	ea	\$ 2,500.00	\$ 2,500.00	
542	-Generator Control Panel	1	ea	\$ 1,500.00	\$ 1,500.00	
543	-Ductbank to Generator (2-4" conduit)	90	lf	\$ 160.00	\$ 14,400.00	
544	-Feeders to Gen Set	120	lf	\$ 60.00	\$ 7,200.00	
545	-Power for Battery Charger and Water Heater	1	allow	\$ 600.00	\$ 600.00	
546	Convenience Power Distribution	26,350	sf	\$ 4.00	\$ 105,400.00	
547	<u>LED Lighting and Switching:</u>					
548	-Egress Stairwells	4	levels	\$ 1,500.00	\$ 6,000.00	
549	-1st Floor Headquarters Areas	13,625	sf	\$ 16.00	\$ 218,000.00	excludes stairwells
550	-Apparatus Bays and Support Areas	7,960	sf	\$ 8.00	\$ 63,680.00	
551	-Mezzanines	2,281	sf	\$ 8.00	\$ 18,248.00	
552	-Mechanical/Electric Room	250	sf	\$ 8.00	\$ 2,000.00	
553	-2nd Floor Bunk Area	4,130	sf	\$ 14.00	\$ 57,820.00	excludes stairwell and mechanical
554	-Future Expansion Space	3,220	sf	\$ 2.00	\$ 6,440.00	
555	-Emergency Circuitry	26,350	sf	\$ 1.00	\$ 26,350.00	
556	-Site Lighting					in Site Utilities
557	-Decorative Lights Above Apparatus Bays	8	ea	\$ 1,000.00	\$ 8,000.00	
558	-General Façade and Exterior Soffit Lighting	1	allow	\$ 15,000.00	\$ 15,000.00	
559	Power for HVAC	26,350	sf	\$ 2.50	\$ 65,875.00	
560	Fire Alarm System	26,350	sf	\$ 4.00	\$ 105,400.00	
561	Interconnect Fire Alarm System to Exhaust Hood Ansul in Kitchen	1	allow	\$ 1,000.00	\$ 1,000.00	
562	Fire Fighter Bi-directional Antenna System					assume Not Required
563	<u>Power for Misc. Equipment:</u>					
564	-Overhead Doors and Controls	8	ea	\$ 1,500.00	\$ 12,000.00	
565	-Automatic Door Opener	2	ea	\$ 350.00	\$ 700.00	
566	-Power to FACP	1	ea	\$ 500.00	\$ 500.00	
567	-HWH	1	ea	\$ 1,000.00	\$ 1,000.00	
568	-Power to Special Equipment	1	allow	\$ 5,000.00	\$ 5,000.00	
569	Technology Conduit	26,350	sf	\$ 2.50	\$ 65,875.00	
570	Lightning Protection	1	allow	\$ 35,000.00	\$ 35,000.00	
571	Fire Safing	1	allow	\$ 2,000.00	\$ 2,000.00	
572	Temp Power and Light					in General Conditions
573	Subtotal				\$ 1,171,638.00	
574						
575	Integrated Technology					
576	Access Control and Surveillance	26,350	sf	\$ 5.00	\$ 131,750.00	
577	Tel/Data Wiring and Terminations	26,350	sf	\$ 2.00	\$ 52,700.00	
578	AV Wiring and Terminations	26,350	sf	\$ 1.00	\$ 26,350.00	
579	Paging System	1	allow	\$ 25,000.00	\$ 25,000.00	
580	Communications Tower		None			
581	Wiring and Terminations for Other Technology	1	allow	\$ 50,000.00	\$ 50,000.00	
582	Subtotal				\$ 285,800.00	
583						
584	General Conditions (18 Month Duration for Entire Project)					

estimate by:
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Newton, MA

Estimate for: **PROPOSED FIRE HEADQUARTERS, Bridgewater, MA**
MAIN FIRE STATION BUILDING

October 30, 2021

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Gross Sq Ft: 26,508 sf (includes "Future Expansion Space"). Mezzanine areas excluded from GSF, but included in cost.

	ITEM	QUANTITY	UNIT	UNIT COST	TOTAL	NOTES
585	Project Manager	18	mos	\$ 24,000.00	\$ 432,000.00	
586	Assistant Project Manager	10	mos	\$ 17,500.00	\$ 175,000.00	
587	MEP Coordinator (50% Time for 4 Months)	4	mos	\$ 12,000.00	\$ 48,000.00	
588	Superintendent	18	mos	\$ 22,000.00	\$ 396,000.00	
589	Assistant Superintendent	10	mos	\$ 17,500.00	\$ 175,000.00	
590	Accounting	18	mos	\$ 1,500.00	\$ 27,000.00	
591	Scheduling/Safety Officer	1	allow	\$ 25,000.00	\$ 25,000.00	
592	Miscellaneous Survey Work	1	allow	\$ 7,500.00	\$ 7,500.00	
593	Job Site Trailers	18	mos	\$ 1,500.00	\$ 27,000.00	
594	Job Office Equipment	1	allow	\$ 10,000.00	\$ 10,000.00	
595	Job Office Supplies	18	mos	\$ 400.00	\$ 7,200.00	
596	Temp Utilities-Power and Light	32,110	sf	\$ 0.60	\$ 19,266.00	includes Out Building
597	Temp Utilities-Water	1	ls	\$ 2,500.00	\$ 2,500.00	
598	Temp Utilities-Telephone	1	ls	\$ 1,000.00	\$ 1,000.00	
599	Utility Consumption-Electric	18	mos	\$ 500.00	\$ 9,000.00	
600	Utility Consumption-Water	18	mos	\$ 100.00	\$ 1,800.00	
601	Utility Consumption-Telephone	18	mos	\$ 500.00	\$ 9,000.00	
602	Temporary Toilets	18	mos	\$ 300.00	\$ 5,400.00	
603	Temporary Heat	5	mos	\$ 10,000.00	\$ 50,000.00	
604	Winter Weather Protection and Snow Removal	1	allow	\$ 100,000.00	\$ 100,000.00	
605	Temporary Protection-Interiors	1	allow	\$ 5,000.00	\$ 5,000.00	
606	General Cleaning	18	mos	\$ 5,000.00	\$ 90,000.00	
607	Final Cleaning - Headquarters Building	26,350	sf	\$ 0.75	\$ 19,762.50	
608	Final Cleaning - Out Building	5,760	sf	\$ 0.30	\$ 1,728.00	
609	Street Cleaning	1	allow	\$ 2,500.00	\$ 2,500.00	
610	Dumpsters	30	ea	\$ 700.00	\$ 21,000.00	
611	Job Safety Provisions	1	allow	\$ 10,000.00	\$ 10,000.00	
612	Building Permit		By Owner			
613	Blueprinting	1	allow	\$ 5,000.00	\$ 5,000.00	
614	Postage/FedEx	18	mos	\$ 300.00	\$ 5,400.00	
615	Courier Service	18	mos	\$ 100.00	\$ 1,800.00	
616	Small Tools and Supplies	1	allow	\$ 10,000.00	\$ 10,000.00	
617	Construction fence		in Site Prep			
618	Temporary signage	1	allow	\$ 2,500.00	\$ 2,500.00	
619	Project Sign	1	allow	\$ 2,500.00	\$ 2,500.00	
620	General Liability Insurance	13,940	\$	\$ 13.00	\$ 181,220.00	
621	Builders Risk Insurance	13,940	\$	\$ 1.50	\$ 20,910.00	
622	Expenses for Ceremonies		by Owner			
623	Subtotal				\$ 1,906,986.50	

estimate by:
FV Consulting LLC
 Newton, MA

Estimate for: **PROPOSED FIRE HEADQUARTERS, Bridgewater, MA**
OUT BUILDING

October 30, 2021

Ref Dwgs: Schematic Floor Plans by Jacunski Humes Architects dated September 29, 2021
 Gross Sq Ft: 5,760 sf

	ITEM	QUANTITY	UNIT	UNIT COST	TOTAL	NOTES
1	Sitework Preparation					
2	Silt Fence	250	lf	\$ 2.00	\$ 500.00	
3	Haybale Erosion Control	250	lf	\$ 6.00	\$ 1,500.00	
4	Perimeter Construction Fencing 8' with Scrim					in Sitework Cost
5	Fence Gate					in Sitework Cost
6	Truck Washdown Area					in Sitework Cost
7	Subtotal				\$ 2,000.00	
8						
9	Site Earthwork					
10	12" Dense Grade under Drives and Parking	110	cy	\$ 28.00	\$ 3,080.00	
11	Fine Grade and Compact at Paved Area	320	sy	\$ 1.50	\$ 480.00	
12	Subtotal				\$ 3,560.00	
13						
14	Site Utilities					in Sitework Cost
15						
16	Site Lighting					in Sitework Cost
17						
18	Site Paving, Concrete and Curbing					
19	Precast Wheelstops	3	ea	\$ 150.00	\$ 450.00	
20	Asphalt Paving (3-1/2")	320	sy	\$ 27.00	\$ 8,640.00	
21	Parking Lot Striping and Numbers	9	spcs	\$ 50.00	\$ 450.00	
22	Subtotal				\$ 9,540.00	
23						
24	Site Amenities		None			
25						
26	Landscaping		None			
27						
28	Building Excavation					
29	Excavate for Building Assume 2' Average Cut	450	cy	\$ 8.00	\$ 3,600.00	
30	Excavate for Footings	150	cy	\$ 12.00	\$ 1,800.00	
31	General Backfill of Foundation	100	cy	\$ 14.00	\$ 1,400.00	
32	Excavate /Backfill for Electrical Ductbank to Out Building	90	lf	\$ 40.00	\$ 3,600.00	
33	Excavate /Backfill for Emergency Generator Ductbank					in Main Building Costs
34	Excavate /Backfill for Water Pipe to Out Building	100	lf	\$ 30.00	\$ 3,000.00	
35	Excavate /Backfill for Gas Pipe to Out Building	30	lf	\$ 20.00	\$ 600.00	
36	Perimeter Drain	360	lf	\$ 25.00	\$ 9,000.00	
37	4" Crushed Stone under Slabs and Footings	30	cy	\$ 30.00	\$ 900.00	
38	Gravel for Slabs (12")	110	cy	\$ 35.00	\$ 3,850.00	
39	Ledge Removal					Not Included
40	Truck Out Overburden as Clean Fill	500	cy	\$ 15.00	\$ 7,500.00	
41	Contaminated Soil Removal					Not Included
42	Subtotal				\$ 35,250.00	
43						
44	Concrete					
45	Spread Footings (12):					
46	-Formwork	192	sf	\$ 9.00	\$ 1,728.00	Assume 4 x 4 x 1
47	-Rebar	600	lbs	\$ 1.30	\$ 780.00	assume 50 lbs/footing
48	-Concrete Furnished and Installed	7.5	cy	\$ 195.00	\$ 1,462.50	
49	Piers	12	ea	\$ 500.00	\$ 6,000.00	
50	Strip Footings (348 lf):					
51	-Formwork	700	sfca	\$ 9.00	\$ 6,300.00	assume 1x2
52	-Rebar	1,400	lbs	\$ 1.30	\$ 1,820.00	assume 4 lbs/lf
53	-Concrete Furnished and Installed	26	cy	\$ 195.00	\$ 5,070.00	
54	Frost Walls:					
55	-Formwork	2,440	sfca	\$ 10.00	\$ 24,400.00	assume 1' thick
56	-Rebar	2,100	lbs	\$ 1.30	\$ 2,730.00	assume 6 lbs/lf
57	-Concrete Furnished and Installed	45	cy	\$ 195.00	\$ 8,775.00	
58	Furnish and Set Sill Plate Anchor Bolts	1	allow	\$ 1,000.00	\$ 1,000.00	
59	SOG (4")	2,800	sf	\$ 10.00	\$ 28,000.00	
60	Concrete Pab for Generator	1	allow	\$ 4,000.00	\$ 4,000.00	
61	Subtotal				\$ 92,065.50	
62						
63	Masonry		None			

estimate by:
FV Consulting LLC
 Newton, MA

Estimate for: **PROPOSED FIRE HEADQUARTERS, Bridgewater, MA**
OUT BUILDING

October 30, 2021

Ref Dwg: Schematic Floor Plans by Jacunski Humes Architects dated September 29, 2021
 Gross Sq Ft: 5,760 sf

	ITEM	QUANTITY	UNIT	UNIT COST	TOTAL	NOTES
64						
65	Structural Steel		None			
70	Subtotal				\$ -	
71						
72	Miscellaneous Metal					
73	Bollards at OH Doors	6	ea	\$ 750.00	\$ 4,500.00	
74	Misc. Metal	1	allow	\$ 5,000.00	\$ 5,000.00	
75	Subtotal				\$ 9,500.00	
76						
77	Rough Carpentry					
78	PT Double Sill Plate for Load Bearing Walls	230	lf	\$ 14.00	\$ 3,220.00	
79	2x6 Framing for Load Bearing Walls and Column Enclosures	5,220	sf	\$ 7.50	\$ 39,150.00	
80	Column Posts	12	ea	\$ 300.00	\$ 3,600.00	
81	LVL Framing	216	lf	\$ 40.00	\$ 8,640.00	
82	Bridging, Blocking and Plywood for Shear	1	allow	\$ 5,000.00	\$ 5,000.00	
83	Framing for Gables	580	sf	\$ 6.50	\$ 3,770.00	
84	Roof Trusses	5,760	sf	\$ 4.50	\$ 25,920.00	
85	Bearing Plate for Roof Trusses	340	lf	\$ 12.00	\$ 4,080.00	
86	Sheathing for Exterior Walls and Gables	5,800	sf	\$ 3.00	\$ 17,400.00	
87	Sheathing for Sloped Roofs	6,670	sf	\$ 3.50	\$ 23,345.00	
88	Cupolas	1	ea	\$ 20,000.00	\$ 20,000.00	
89	Watertable Trim Board	350	lf	\$ 10.00	\$ 3,500.00	
90	Cementboard Vertical Board and Batten Siding	5,800	sf	\$ 6.00	\$ 34,800.00	
91	Plywood Cladding on Interior Side of Carport Wing Walls	720	sf	\$ 3.75	\$ 2,700.00	
92	Exterior Soffit Framing and Plywood	2,800	sf	\$ 10.00	\$ 28,000.00	
93	Exterior Soffit PVC Trim	310	lf	\$ 8.00	\$ 2,480.00	
94	Corner Trim Boards	100	lf	\$ 8.00	\$ 800.00	
95	Eave Trim, Vent and Backup Framing	240	lf	\$ 24.00	\$ 5,760.00	
96	Gable Trim and Back-up Framing	110	lf	\$ 20.00	\$ 2,200.00	
97	Gable Louvers	2	ea	\$ 300.00	\$ 600.00	
98	Plywood on Interior Walls	4,460	sf	\$ 3.75	\$ 16,725.00	
99	Hangers, Fasteners, Adhesives and Sealants	1	allow	\$ 10,000.00	\$ 10,000.00	
100	Misc. Rough Framing and Blocking	1	allow	\$ 2,500.00	\$ 2,500.00	
101	Misc. Exterior Trim	1	allow	\$ 1,000.00	\$ 1,000.00	
102	Subtotal				\$ 265,190.00	
103						
104	Finish Carpentry/Millwork		None			
105						
106	Moisture Protection					
107	Foundation dampproofing	1,160	sf	\$ 2.00	\$ 2,320.00	
108	Concrete Floor Sealer		in Flooring			
109	Air Barrier at Exterior Siding and Soffit	8,600	sf	\$ 0.60	\$ 5,160.00	
110	Flashing at Watertable Cap	350	lf	\$ 6.00	\$ 2,100.00	
111	Subtotal				\$ 9,580.00	
112						
113	Roofing					
114	30 Yr Asphalt Shingle Roof and Felt Underlayment	6,670	sf	\$ 5.00	\$ 33,350.00	
115	Ice and Watershield - 6' From Edge	1,440	sf	\$ 3.50	\$ 5,040.00	
116	Metal Drip Edge	350	lf	\$ 4.00	\$ 1,400.00	
117	Ridge Vents	112	lf	\$ 15.00	\$ 1,680.00	
118	Flashing at Cupolas	1	ea	\$ 500.00	\$ 500.00	
119	Misc Flashing of Mechanical Roof Penetrations	1	allow	\$ 500.00	\$ 500.00	
120	Aluminum Gutters	240	lf	\$ 12.00	\$ 2,880.00	
121	Aluminum Downspouts	50	lf	\$ 10.00	\$ 500.00	
122	Boot Connections to Perimeter Drain	4	ea	\$ 250.00	\$ 1,000.00	
123	Subtotal				\$ 46,850.00	
124						
125	Insulation					
126	Rigid Insulation 2" at Foundation Perimeter	1,160	sf	\$ 2.50	\$ 2,900.00	
127	Rigid Insulation Under Slab on Grade	2,800	sf	\$ 2.50	\$ 7,000.00	
128	6" Spray Foam Insulation at Wood Framed Walls	216	sf	\$ 4.50	\$ 972.00	
129	Cellulose Retention Fabric	3,000	sf	\$ 0.75	\$ 2,250.00	
130	12" Cellulose Blown In Insulation in Attic	2,800	sf	\$ 2.50	\$ 7,000.00	

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 Newton, MA

Estimate for: **PROPOSED FIRE HEADQUARTERS, Bridgewater, MA**
OUT BUILDING

October 30, 2021

Ref Dwg: Schematic Floor Plans by Jacunski Humes Architects dated September 29, 2021
 Gross Sq Ft: 5,760 sf

	ITEM	QUANTITY	UNIT	UNIT COST	TOTAL	NOTES
131	Interior Vapor Barrier	11,000	sf	\$ 0.50	\$ 5,500.00	
132	Subtotal				\$ 25,622.00	
133						
134	Windows and Glass		None			
135						
136	Doors, Frames, Hardware					
137	12' Overhead Sectional Doors	5	ea	\$ 5,000.00	\$ 25,000.00	
138	Welded Metal Door Frames - Single	1	ea	\$ 350.00	\$ 350.00	
139	Welded Metal Door Frames - Double	1	ea	\$ 375.00	\$ 375.00	
140	Exterior Hollow Metal Doors	3	lvs	\$ 375.00	\$ 1,125.00	
141	Door Hardware	3	lvs	\$ 800.00	\$ 2,400.00	
142	Install Doors, Frames, Hardware	3	lvs	\$ 225.00	\$ 675.00	
143	Subtotal				\$ 29,925.00	
144						
145	Structural Light Guage Metal Framing		None			
146						
147	Drywall					
148	Exterior Drywall Ceiling on Hat Channel	2,850	sf	\$ 6.00	\$ 17,100.00	
149	Interior Drywall Ceiling on Hat Channel	2,850	sf	\$ 5.50	\$ 15,675.00	
150	Additional Drywall Layers on Generator Room Walls for Rating	912	sf	\$ 12.00	\$ 10,944.00	
151	Additional Drywall Layers on Generator Room Ceiling for Rating	336	sf	\$ 9.00	\$ 3,024.00	
152	Subtotal				\$ 46,743.00	
153						
154	Acoustic Ceilings		None			
155						
156	Flooring					
157	Epoxy Concrete Sealer	2,850	sf	\$ 1.25	\$ 3,562.50	
158	Subtotal				\$ 3,562.50	
159						
160	Painting					
161	<u>Exterior:</u>					
162	Paint Bollards	6	ea	\$ 50.00	\$ 300.00	
163	Paint Drywall Ceilings	2,850	sf	\$ 1.00	\$ 2,850.00	
164	Paint Plywood Wing Walls	720	sf	\$ 1.00	\$ 720.00	
165	<u>Interior:</u>					
166	Paint Drywall Ceilings	2,850	sf	\$ 1.00	\$ 2,850.00	
167	Paint Plywood Walls	4,460	sf	\$ 1.00	\$ 4,460.00	
168	Subtotal				\$ 11,180.00	
169						
170	Specialties/Accessories					
171	Wire Mesh Partitions		None			
172	Louvers		in HVAC			
173	Fire Extinguishers on Brackets	2	ea	\$ 150.00	\$ 300.00	
174	Signage	1	allow	\$ 1,000.00	\$ 1,000.00	
175	Subtotal				\$ 1,300.00	
176						
177	Appliances		None			
178						
179	Plumbing					
180	Floor Drains		None			
181	Gas Piping from Main Building	100	lf	\$ 40.00	\$ 4,000.00	
182	Gas Shut-off	1	ea	\$ 400.00	\$ 400.00	
183	Gas Piping from Tank to Unit Heaters	3	ea	\$ 1,000.00	\$ 3,000.00	
184	Water Piping from Main Building	100	lf	\$ 40.00	\$ 4,000.00	
185	Water Shut-off	1	ea	\$ 400.00	\$ 400.00	
186	Water Piping for Hose Bibs	1	allow	\$ 5,000.00	\$ 5,000.00	
187	Subtotal				\$ 16,800.00	
188						
189	Fire Protection		None			
190	Subtotal				\$ -	
191						
192	HVAC					
193	Air Intake and Exhaust Ducts and Plenums for Generator Room	1	allow	\$ 5,000.00	\$ 5,000.00	

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Estimate for: **PROPOSED FIRE HEADQUARTERS, Bridgewater, MA**
OUT BUILDING

October 30, 2021

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 Gross Sq Ft: 5,760 sf

	ITEM	QUANTITY	UNIT	UNIT COST	TOTAL	NOTES	
194	Motorized Louvers for Generator	2	ea	\$ 1,500.00	\$ 3,000.00		
195	Exhaust Flue for Generator	in Building Costs					
196	Unit Heaters for Storage Areas (gas fired)	2	ea	\$ 3,000.00	\$ 6,000.00		
197	Unit Heaters for Generator Room (propane fired)	1	ea	\$ 3,000.00	\$ 3,000.00		
198	Vent Stacks for UH	3	ea	\$ 400.00	\$ 1,200.00		
199	Exhaust Fan (300 cfm)	1	ea	\$ 1,100.00	\$ 1,100.00		
200	Ductwork for Exhaust	200	lbs	\$ 12.00	\$ 2,400.00		
201	Sidewall Diffusers	4	ea	\$ 100.00	\$ 400.00		
202	Mesh Screen Inlets	2	ea	\$ 50.00	\$ 100.00		
203	Temperature Controls for Unit Heaters	1	allow	\$ 1,500.00	\$ 1,500.00		
204	Subtotal				\$ 23,700.00		
205							
206	Electric/Security						
207	Primary and Secondary Ductbanks	in Site Utilities					
208	Transformer and Primary Cabling	by Utility Company					
209	Generator	in Main Building Costs					
210	Generator Ductbank	in Main Building Costs					
211	Power Conduit and Feeders from Main Building (Concrete Encased)	80	lf	\$ 260.00	\$ 20,800.00		
212	Panel Board	1	ea	\$ 7,500.00	\$ 7,500.00		
213	Misc. Convenience Power	5,760	sf	\$ 1.00	\$ 5,760.00		
214	<u>Lighting and Switching:</u>						
215	-Storage Area and Generator 1x8 Strip	10	ea	\$ 550.00	\$ 5,500.00		
216	-Soffit Lighting at Carport	10	ea	\$ 600.00	\$ 6,000.00		
217	-Lighting Controls	1	allow	\$ 2,000.00	\$ 2,000.00		
218	Power to Generator	in Main Building Costs					
219	Power to Exhaust Fan	2	ea	\$ 600.00	\$ 1,200.00		
220	Power to Unit Heaters	3	ea	\$ 600.00	\$ 1,800.00		
221	Fire Alarm System	5,760	sf	\$ 2.00	\$ 11,520.00		
222	Smoke Dectors in Attic	1	allow	\$ 1,500.00	\$ 1,500.00		
223	<u>Power for Misc. Equipment:</u>						
224	-Overhead Doors and Controls	5	ea	\$ 600.00	\$ 3,000.00		
225	Tel/Data conduit, ring and string		None				
226	Temp Power and Light	in General Conditions					
227	Subtotal				\$ 66,580.00		
228							
229	Integrated Technology						
230	Access Control, Surveillance and Paging	1	allow	\$ 15,000.00	\$ 15,000.00		
231	Communications Wiring		None				
232	Subtotal				\$ 15,000.00		

Proposed New Fire Headquarters Bridgewater Fire Department Bridgewater, MA

November 2, 2021

PROJECT COST WORKSHEET

Hard Costs:		
Sitework	\$2,090,601	
Main Building	\$13,550,221	
Outbuilding	\$994,871	
Subtotal		\$16,635,694
Soft Costs:		
Land Acquisition Costs	None required	
Architectural/Engineering Fees	\$1,200,000	
Owner's Project Management Fees	\$600,000	
Furniture, Fixtures, Equipment (& Design)	\$400,000	
Land Surveying Services (A-2/T-2) / Soil Scientist	\$15,000	
Geotechnical Engineering / Soil Testing	\$15,000	
Independent Materials Testing / Inspections	\$35,000	
Commissioning Services	\$50,000	
Radio System relocation / antenna needs	\$80,000	
Telephone / Data System Equipment	\$80,000	
Building Equipment / AV Systems	\$100,000	
Printing, Advertising	\$5,000	
Relocation / Moving Expenses	\$15,000	
Utility Company back charges	\$25,000	
Builder's Risk Insurance Policy	w/in Hard Costs	
Owner's Legal Fees / Bonding Costs	TBD by Owner	
Administrative Costs / Owner's Expenses	\$50,000	
Subtotal		\$2,670,000
Project Contingency (10% of hard costs)	\$1,660,000	\$1,660,000
Project Total		\$20,965,694

- Not anticipated are costs associated with contaminated soil conditions or mass rock excavation.
- Project is anticipating a construction duration of 18 months from contract award to final completion.
- Hard Cost estimates are from FV Consulting cost estimate, dated October 30, 2021 and associated notes, and schematic design documents, dated September 17, 2021 as prepared by Jacunski Humes Architects.
- Soft Costs are indicated as "allowance" amounts for budgeting purposes. Actual costs may vary.
- Costs are based upon State of MA Prevailing Wage Rates and MA Chapter 149 or 149A bid requirements.
- Costs have been escalated to an anticipated bid period / construction start in the fall of 2022. Additional cost escalation should be included if anticipated schedules are not realized.