



SD Progress Set Estimate

North Brookfield Fire / DPW

New Headquarters, Apparatus and DPW

North Brookfield, MA

PM&C LLC

20 Downer Ave, Suite 5
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Prepared for:

Tecton Architects

October 17, 2023



North Brookfield Fire / DPW
 New Headquarters, Apparatus and DPW
 North Brookfield, MA

17-Oct-23

SD Progress Set Estimate

MAIN CONSTRUCTION COST SUMMARY

	Bid Date	Gross Floor Area	\$/sf	Estimated Construction Cost
FIRE HEADQUARTERS BUILDING				
	Mar-24			
FIRE HEADQUARTERS BUILDING		4,448	\$457.79	\$2,036,244
HAZ-MAT REMOVALS				By Owner
SITework				TBD
<hr/>				
SUB-TOTAL		4,448	\$457.79	\$2,036,244
DESIGN AND PRICING CONTINGENCY	10.0%			\$203,624
ESCALATION	2.5%			\$50,906
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SUB-TOTAL				\$2,290,774
GENERAL CONDITIONS/GENERAL REQUIREMENTS	10.00%			\$229,077
BONDS	0.90%			\$20,617
INSURANCE	1.50%			\$34,362
PERMIT				Waived
OVERHEAD AND PROFIT	4.00%			\$91,631
CONSTRUCTION CONTINGENCY				By Owner
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TOTAL OF ALL CONSTRUCTION		4,448	\$599.47	\$2,666,461



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	Bid Date	Gross Floor Area	\$/sf	Estimated Construction Cost
APPARATUS - RENOVATION				
	Mar-24			
APPARATUS BUILDING		6,676	\$252.49	\$1,685,604
HAZMAT REMOVAL				By Owner
SITWORK				TBD
SUB-TOTAL		6,676	\$252.49	\$1,685,604
DESIGN AND PRICING CONTINGENCY	10.0%			\$168,560
ESCALATION	2.5%			\$42,140
SUB-TOTAL				\$1,896,304
GENERAL CONDITIONS/GENERAL REQUIREMENTS	10.00%			\$189,630
BONDS	0.90%			\$17,067
INSURANCE	1.50%			\$28,445
PERMIT				Waived
OVERHEAD AND FEE	4.00%			\$75,852
CONSTRUCTION CONTINGENCY				By Owner
TOTAL OF ALL CONSTRUCTION		6,676	\$330.63	\$2,207,298

Alternates (includes all markups):

1 Apparatus Bay: EFIS in lieu of spray foam insulation	ADD	\$289,185
2 Apparatus Bay: Replace windows in apparatus bay	ADD	\$47,260



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	Bid Date	Gross Floor Area	\$/sf	Estimated Construction Cost
DPW BUILDING				
	Mar-24			
DPW BUILDING		6,938	\$198.88	\$1,379,801
HAZMAT REMOVAL - per UEC report dated 1-10-23				N/A
SITework				TBD
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SUB-TOTAL		6,938	\$198.88	\$1,379,801
DESIGN AND PRICING CONTINGENCY	10.0%			\$137,980
ESCALATION	2.5%			\$34,495
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SUB-TOTAL				\$1,552,276
GENERAL CONDITIONS/GENERAL REQUIREMENTS	10.00%			\$155,228
BONDS	0.90%			\$13,970
INSURANCE	1.50%			\$23,284
PERMIT				Waived
OVERHEAD AND FEE	4.00%			\$62,091
CONSTRUCTION CONTINGENCY				By Owner
<hr/>				
TOTAL OF ALL CONSTRUCTION		6,938	\$260.43	\$1,806,849

Alternates (includes all markups):

1 Apparatus Bay: EFIS in lieu of spray foam insulation	ADD	\$289,185
2 Apparatus Bay: Replace windows in apparatus bay	ADD	\$47,260
3 DPW Building: Stud and batt insulation at exterior walls in lieu of spray foam	ADD	\$68,402



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This Progress Set estimate was produced from drawings and specifications produced by Tecton Architects and their design team dated September 29th, 2023. Design and engineering changes occurring subsequent to the issue of these documents have not been incorporated in this estimate.

This estimate includes all direct construction costs, general contractors overhead and fee and design contingency. Cost escalation has not been included.

Bidding conditions are expected to be public bidding under C.149 to pre-qualified General Contractors, open bidding for sub-contractors, open specifications for materials and manufacturers.

The estimate is based on prevailing wage rates for construction in this market and represents a reasonable opinion of cost. It is not a prediction of the successful bid from a contractor as bids will vary due to fluctuating market conditions, errors and omissions, proprietary specifications, lack or surplus of bidders, perception of risk, etc. Consequently the estimate is expected to fall within the range of bids from a number of competitive contractors or subcontractors, however we do not warrant that bids or negotiated prices will not vary from the final construction cost estimate.

ITEMS NOT CONSIDERED IN THIS ESTIMATE

Items not included in this estimate are:

- All professional fees and insurance
- Land acquisition, feasibility, and financing costs
- All Furnishings, Fixtures and Equipment U.N.O
- Dispatch Equipment
- Communications Tower
- Items identified in the design as Not In Contract (NIC)
- Items identified in the design as by others
- Owner supplied and/or installed items (e.g. draperies, furniture and equipment)
- Rock excavation; special foundations (unless indicated by design engineers)
- Utility company back charges, including work required off-site
- Work to City streets and sidewalks, (except as noted in this estimate)



SD Progress Set Estimate

CONSTRUCTION COST SUMMARY IN CSI FORMAT

Cost/SF

PUBLIC SAFETY BUILDING

FIRE HEADQUARTERS BUILDING

DIV. 2 EXISTING CONDITIONS		\$66,906	
024120 Demolition - Bulk	\$66,906		
028200 HazMat Remediation			
DIV. 3 CONCRETE		\$16,339	
033000 Cast-in-Place Concrete	\$16,339		\$3.67
DIV. 4 MASONRY		\$127,020	
040001 Masonry - FSB	\$127,020		\$28.56
DIV. 5 METALS		\$26,746	
050001 Miscellaneous And Ornamental Iron - FSB			
051200 Structural Steel	\$26,746		\$6.01
053100 Steel Decking			
DIV. 6 WOODS & PLASTICS		\$137,259	
061053 Rough Carpentry	\$36,409		\$8.19
064023 Interior Architectural Woodwork	\$100,850		\$22.67
DIV. 7 THERMAL & MOISTURE PROTECTION		\$69,039	
070001 Waterproofing, Dampproofing & Caulking - FSB	\$21,950		\$4.93
070002 Roofing and Flashing - FSB	\$42,725		\$9.61
072100 Thermal Insulation	\$2,140		\$0.48
074213 Insulated Metal Wall Panels			
074293 Siding			
078100 Fireproofing & Firestopping	\$2,224		\$0.50
079500 Expansion Control			
DIV. 8 DOORS & WINDOWS		\$175,984	
080001 Glass and Glazing - FSB			
080002 Metal Windows - FSB	\$111,684		\$25.11
081110 Doors, Frames and Hardware	\$47,450		\$10.67
083113 Access Doors	\$2,500		\$0.56
083300 Coiling Doors			
084110 Aluminum Framed Entrances and Storefronts			
089000 Exterior Louvers	\$14,350		\$3.23



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GSF 4,448

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CONSTRUCTION COST SUMMARY IN CSI FORMAT

Cost/SF

PUBLIC SAFETY BUILDING

FIRE HEADQUARTERS BUILDING

DIV. 9 FINISHES		\$275,266	
090001 Tile - FSB	\$52,125		\$11.72
090002 Acoustical Tile - FSB	\$46,696		\$10.50
090003 Resilient Flooring - FSB	\$10,038		\$2.26
090004 Painting - FSB	\$52,625		\$11.83
092116 Gypsum Wallboard	\$105,945		\$23.82
096723 Resinous Flooring			
096820 Carpeting	\$7,837		\$1.76
097200 Wall Coverings			
098400 Acoustic Room Components			
DIV 10 SPECIALTIES		\$17,221	
101100 Visual Display Surfaces	\$2,224		\$0.50
101200 Display Cases			
101400 Signage	\$9,540		\$2.14
102100 Toilet Compartments and Cubicles			
102213 Wire Mesh Partitions			
102600 Wall Protection	\$1,557		\$0.35
102800 Toilet Accessories	\$2,800		\$0.63
104400 Fire Protection Specialties	\$1,100		\$0.25
105113 Lockers			
105500 Postal Specialties			
105626 Mobile Storage Units			
DIV. 11 EQUIPMENT		\$18,148	
114000 Residential Equipment	\$13,700		\$3.08
119000 Miscellaneous Equipment	\$4,448		\$1.00
DIV. 12 FURNISHINGS		\$3,550	
122410 Window Treatments	\$1,750		\$0.39
123100 Casework & Countertops			
124810 Entrance Mats and Frames	\$1,800		\$0.40
DIV. 13 SPECIAL CONSTRUCTION			
DIV. 14 CONVEYING SYSTEMS			
140001 Elevators - FSB			
149313 Fire Station Sliding Pole			
DIV. 21 FIRE SUPPRESSION			
210000 Fire Protection - FSB			
DIV. 22 PLUMBING		\$140,799	
220000 Plumbing - FSB	\$140,799		\$31.65



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Cost/SF

PUBLIC SAFETY BUILDING

FIRE HEADQUARTERS BUILDING

DIV. 23 HVAC		\$555,043	
230000 HVAC - FSB	\$555,043		\$124.78
DIV. 26 ELECTRICAL		\$401,924	
260000 Electrical - FSB	\$401,924		\$90.36
DIV. 31 EARTHWORK		\$5,000	
311000 Site Preparation			
312000 Earthwork	\$5,000		
SUBTOTAL DIRECT (TRADE) COST		\$2,036,244	\$457.79



SD Progress Set Estimate

GFA

4,448

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
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FIRE HEADQUARTERS BUILDING

GROSS FLOOR AREA CALCULATION

First Floor					3,099		
Second Floor					1,349		
Mezzanine Level					N/A		

TOTAL GROSS FLOOR AREA (GFA)						4,448 sf	
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02 - DEMO

Demolition

Remove non load bearing GWB walls	1,661	sf	3.00	4,983		
Remove ceiling	1,954	sf	2.50	4,885		
Remove flooring, incl clean and repair concrete floor	4,448	sf	2.00	8,896		
Remove interior doors	6	ea	150.00	900		
Remove overhead doors	4	ea	750.00	3,000		
Remove existing antenna	1	ea	500.00	500		
Remove existing louvers	4	ea	250.00	1,000		
Remove existing window	7	ea	250.00	1,750		
Strip existing timber flooring					Incl w/ flooring	
Remove existing roofing					Incl w/ roofing	
Saw cut existing SOG for new shear walls & plumbing trenching	164	lf	20.00	3,280		
Demo existing SOG for new shear walls & plumbing trenching	328	sf	15.00	4,920		
Misc. demo	4,448	sf	3.00	13,344		
Shoring/Bracing	1	ls	15,000.00	15,000		
Temp protection	4,448	sf	1.00	4,448		
SUBTOTAL						66,906

TOTAL - DEMO						\$66,906
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03 - CONCRETE

Concrete Haunch Footing at Shear Walls	52	lf				
Formwork					Assume Not Required	
Rebar	700	lbs	2.50	1,750		
Concrete material	7	cy	180.00	1,260		
Place and finish concrete material	7	cy	130.00	910		
Slab on grade, 6" th						
#4 Rebar dowel into existing concrete slab w/epoxy	82	ea	100.00	8,200		
Mesh Rebar	426	sf	2.50	1,065		
Concrete material	7	cy	180.00	1,260		
Place concrete material	7	cy	130.00	910		
Trowel finish concrete floor	328	sf	3.00	984		
SUBTOTAL						16,339

TOTAL - CONCRETE						\$16,339
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GFA

4,448

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
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FIRE HEADQUARTERS BUILDING

04 - MASONRY

Exterior Walls

	Clean all existing masonry facade	3,600	sf	10.00	36,000		
	Allowance to repoint 20% of Facade	720	sf	42.00	30,240		
	Allowance to repair 10% of masonry wall	14	sf	120.00	1,680		
	Remove unused conduit, patch walls to match existing	3,600	sf	0.75	2,700		
	Infill window/doorway with brick	29	sf	150.00	4,350		
	Remove existing and cut in new stone window sills	10	loc	750.00	7,500		
	Make new opening in existing masonry façade for new window, incl demolition, toothing in lintel and repair jambs	9	loc	1,500.00	13,500		
	Remove and cut in new lintel above overhead doors	3	loc	2,500.00	7,500		
	Anchor existing building exterior façade to ceiling joist and roof rafters w/ adhesive anchors	122	loc	75.00	9,150		
	Staging to exterior wall	3,600	sf	4.00	14,400		
	SUBTOTAL						127,020

TOTAL - MASONRY \$127,020

05 - METALS

050001 METAL FABRICATIONS

	Allowance for misc. metals	4,448	sf	2.00	8,896		
	SUBTOTAL						8,896

051200 Structural Metals

	New canopy steel framing and deck at new canopy incl brackets connecting to existing building	90	sf	75.00	6,750		
	New canopy steel decking	90	sf	15.00	1,350		
	Furnish steel lintels at for new window opes, 4ft	9	loc	500.00	4,500		
	Furnish steel lintels at for overhead doors opes, 13ft	3	loc	1,750.00	5,250		
	SUBTOTAL						17,850

TOTAL - METALS \$26,746

06 - WOOD, PLASTICS AND COMPOSITES

061053 ROUGH CARPENTRY

Misc. Rough Blocking

	New canopy fascia of canopy	27	lf	30.00	810		
	New soffit of fascia	90	sf	50.00	4,500		
	Double blocking at perimeter of floor joist & ceiling joist @48" O.C	122	ea	20.00	2,440		
	Rough blocking at roof	1,450	sf	1.50	2,175		
	Shear wall rough blocking at partitions	4,448	gfa	3.00	13,344		
	Rough carpentry and blocking at exterior window and door openings	427	lf	16.00	6,832		
	Rough blocking at interior door/borrow light openings	60	lf	6.00	360		
	Backer panels in electrical closets	1	ls	1,500.00	1,500		
	Miscellaneous wood blocking at interiors	4,448	gsf	1.00	4,448		
	SUBTOTAL						36,409



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FIRE HEADQUARTERS BUILDING

064023 ARCHITECTURAL WOODWORK/CASEWORK/FIBER CEMENT SIDING

104	Miscellaneous architectural woodwork; allowance	1	ls	10,000.00	10,000		
105	Trim interior windows, jambs, head and perimeter trim - assumed	27	ope	250.00	6,750		
106	Solid surface window sill & apron	76	lf	75.00	5,700		
107	Corridor RM 112: Base Unit & Countertop	9	lf	500.00	4,500		
108	Chiefs Office RM 106: Plam countertop on metal supports	48	lf	250.00	12,000		Possible Furniture?
109	EMS Office RM 103: Plam countertop on metal supports	7	lf	250.00	1,750		
110	EMS Office RM 104: Plam countertop on metal supports	28	lf	250.00	7,000		
111	EMS Office RM 105: Plam countertop on metal supports	37	lf	250.00	9,250		
112	Kitchen RM 108: Kitchenette Base Unit & Countertop	15	lf	550.00	8,250		
113	Kitchen RM 108: Kitchenette Wall Hung Unit	19	lf	350.00	6,650		
114	Kitchen RM 203: Kitchenette Base Unit & Countertop	15	lf	550.00	8,250		
115	Kitchen RM 203: Kitchenette Tall Unit	8	lf	800.00	6,400		
116	Kitchen RM 203:Kitchenett Wall Hung Unit	14	lf	350.00	4,900		
117	Millwork reception desk	7	lf	1,000.00	7,000		
118	Vanity Counter	7	lf	350.00	2,450		
119	SUBTOTAL						100,850

TOTAL - WOOD, PLASTICS AND COMPOSITES	\$137,259
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07 - THERMAL AND MOISTURE PROTECTION

070001 WATERPROOFING, DAMPPROOFING AND CAULKING

128	Repair vapor barrier at slab on grade-assumed	328	sf	5.00	1,640		
129	<u>Exterior Walls</u>						
130	Patch in new air and vapor barrier at exterior wall infill	2	loc	500.00	1,000		
131	Air and vapor barrier at new canopy soffits				Assumed Not Required		
132	AVB at window/storefront/doors openings	427	lf	6.50	2,776		
133	Backer rod & double sealant at opes	427	lf	10.00	4,270		
134	<u>Interiors</u>						
135	Backer rod & double sealant at opes	60	lf	10.00	600		
136	Miscellaneous sealants at partititions	5,566	sf	0.25	1,392		
137	Miscellaneous sealants building façade	3,600	sf	1.00	3,600		
138	Miscellaneous sealants throughout building	4,448	gsf	1.50	6,672		
139	SUBTOTAL						21,950

070002 ROOFING AND FLASHING

142	Remove existing and replace asphalt shingles, tie into existing	1,360	sf	25.00	34,000		
143	EDPM to new canopy	90	sf	45.00	4,050		
144	Lower Roof - Assume existing to remain	1,787	sf	Assume Existing to Remain			
145	Gutters + downspouts at new canopy	1	ls	2,500.00	2,500		
146	<u>Miscellaneous</u>						
147	Miscellaneous flashings including at pipe penetrations, roof drain flashings etc.	1,450	sf	1.50	2,175		
148	SUBTOTAL						42,725

072100 THERMAL INSULATION

151	Patch in new insulation at exterior wall infill	2	loc	250.00	500		
152	Repair slab on grade insulation - assumed	328	sf	5.00	1,640		
153	SUBTOTAL						2,140



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GFA

4,448

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FIRE HEADQUARTERS BUILDING

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074213 METAL PANELS

No work in this section

SUBTOTAL

-

074293 SIDING

No work in this section

SUBTOTAL

-

078100 FIREPROOFING & FIRE STOPPING

Fireproofing to structure

Assumed Not Required

Fire stopping throughout

4,448 gsf

0,50 2,224

SUBTOTAL

2,224

079500 EXPANSION CONTROL

No work in this section

NR

SUBTOTAL

-

TOTAL - THERMAL AND MOISTURE PROTECTION

\$69,039

08 - OPENINGS

080001 GLASS AND GLAZING

No work in this section

SUBTOTAL

-

080002 WINDOWS + DOORS

Exterior Doors

Glazed aluminum entrance door and hardware; single door

3 ea 6,000.00 18,000

Exterior Glazing Systems

SF-01: Storefront w/ composite panels & operable windows, 11'-06" x 9'-00"

1 ea 15,525.00 15,525

SF-02: Storefront w/ composite panels & operable windows, 11'-06" x 10'-08"

1 ea 18,400.58 18,401

SF-03: Storefront w/ composite panels & operable windows, 10'-00" x 9'-00"

1 ea 13,500.00 13,500

SF-04: Storefront w/ composite panels & operable windows, 10'-00" x 8'-00"

1 ea 12,000.00 12,000

SF-05: Storefront w/ glazed door, 3'-01" x 2'-00"

2 ea 900.00 1,800

SL-01: Alum. Framed and sliding window, 3'-04" x 4'-02"

4 ea 2,600.00 10,400

W-01: Double hung window, 3'-01" x 6'-05"

3 ea 1,657.50 4,973

W-02: Double hung window, 2'-08" x 4'-08"

6 ea 1,057.99 6,348

W-03: Double hung window, 3'-01" x 6'-04"

6 ea 1,657.50 9,945

W-04: Double hung window, 2'-04" x 4'-00"

1 ea 792.20 792

Existing window to remain

192 sf Assume work to existing windows

SUBTOTAL

111,684

081100 DOORS, FRAMES AND HARDWARE

Interior Doors

Doors, single

13 ea 500.00 6,500

HM Frame, single

13 ea 450.00 5,850

Premium for rated doors

1 ls 1,500.00 1,500

Hardware

13 leaf 1,000.00 13,000

Remove existing doors and reinstall w/new HW

13 leaf 1,200.00 15,600

Automatic door opener - allow

1 loc 5,000.00 5,000



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FIRE HEADQUARTERS BUILDING

207 SUBTOTAL 47,450

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209 **083113 ACCESS DOORS**

210 Access doors 1 ls 2,500.00 2,500

211 SUBTOTAL 2,500

212

216 **084110 ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS**

217 SUBTOTAL w/ windows

218

219 **089119 FIXED LOUVERS**

220 Louvers custom 82 sf 175.00 14,350

221 SUBTOTAL 14,350

222

TOTAL - OPENINGS							175,984
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226 **09 - FINISHES**

227

228 **090001 TILE**

229 Wall & Floor Finishes

230 Porcelain to wall 112 sf 38.00 4,256

231 QT-01: Quartz Tile 477 sf 45.00 21,465

232 FT-01: Porcelain Floor Tile 497 sf 38.00 18,886

233 TB, tile base 206 lf 28.00 5,768

234 Tile wall backsplash NR

235 Thresholds, stone 7 ea 250.00 1,750

236 SUBTOTAL 52,125

237

238 **090002 ACT**

239 APC-01: Armstrong Optima 1,801 sf 7.00 12,607

240 APC-01: Armstrong Optima, 4ft by 4ft 575 sf 6.50 3,738

241 APC-02: Armstrong Optima Health Zone 159 sf 9.00 1,431

242 Axium trim at ACT cloud 192 lf 20.00 3,840

243 WD-BB: WD Ceiling 456 sf 55.00 25,080

244 SUBTOTAL 46,696

245

246 **090003 RESILIENT FLOORING**

247 CF-01: Cork Flooring, incl 2 top coast post installation 460 sf 11.00 5,060

248 STR-01: Rubber thread and riser 1 flt 2,500.00 2,500

249 Resilient Base 826 lf 3.00 2,478

250 SUBTOTAL 10,038

251

252 **090004 PAINTING**

253 Finish doors and frames 13 ea 160.00 2,080

254 Paint to staircases 1 flt 3,000.00 3,000

255 Paint to GWB 10,320 sf 0.90 9,288

256 Epoxy Paint to GWB 376 sf 1.50 564

257 Paint to existing ceilings 374 sf 2.75 1,029

258 Paint to GWB ceilings 483 sf 1.50 725

259 Paint exposed beams 54 lf 8.00 432

260 Stain Floor Existing floor, incl sand & prep 897 sf 10.00 8,970

261 ETR-01: Flooring existing to remain 64 sf ETR

262 Boiler RM: No Finish; existing to remain 138 sf ETR

263 Exterior Scope



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GFA

4,448

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST	
FIRE HEADQUARTERS BUILDING								
264	Scrape & paint existing fascia and soffit trim	271	lf	15.00	4,065			
265	Scrape & paint all existing exterior wood trim - assume tower	475	sf	20.00	9,500			
266	Paint to new soffit of fascia at new canopy	27	lf	12.00	324			
267	Paint soffit of canopy at new canopy	90	sf	5.00	450			
268	Paint double hung windows - assumed	31	ea	250.00	7,750			
269	Miscellaneous painting/ touch-up	4,448	gsf	1.00	4,448			
270	SUBTOTAL					52,625		
271								
272	092116 GWB							
273	<i>EXTERIOR WALLS</i>							
274	Patch in new GWB & Stud at exterior wall infill	2	loc	500.00	1,000			
275								
276	<i>PARTITIONS</i>							
277	Partition Type A3.1: 3-5/8" Stud, w/fire resistant GWB both sides & insulation	242	sf	20.50	4,961			
278	Partition Type C3.0: 3-5/8" Stud, w/GWB one sides & insulation	3,432	sf	14.00	48,048			
279	Partition Type A3.0: 3-5/8" Stud, w/ GWB both sides & insulation	1,320	sf	18.50	24,420			
280	Shear wall Partition Type A3.0: 3-5/8" Stud, w/ GWB both sides & insulation	572	sf	21.50	12,298			
281	Patch and prep existing for painting	3,608	sf	1.00	3,608			
282	Install doors frame	13	ea	150.00	1,950			
283								
284	<i>CEILINGS</i>							
285	GWB	291	sf	20.00	5,820			
286	GWB Vertical Soffits - assumed	192	lf	20.00	3,840			
287	GWB - Existing to Remain	374	sf		ETR			
288	SUBTOTAL					105,945		
289								
290	096723 RESINOUS FLOORING							
291	No work in this section							
292	SUBTOTAL					-		
293								
294	096820 CARPET							
295	CPT-01: Carpet	1,161	sf	6.75	7,837			
296	SUBTOTAL					7,837		
297								
298	097200 WALL COVERINGS							
299	No work in this section							
300	SUBTOTAL					-		
301								
302	098400 ACOUSTIC ROOM COMPONENTS							
303	No work in this section							
304	SUBTOTAL					-		
305								
306	TOTAL - FINISHES						\$275,266	
307								
308								
309	10 - SPECIALTIES							
310								
311	101100 VISUAL DISPLAY BOARDS							
312	Allowance for markerboard and tackboards	4,448	gfa	0.50	2,224			
313	SUBTOTAL					2,224		
314								
315	101200 DISPLAY CASES							
316	Custom display cases				Assume Not Required			
317	SUBTOTAL					-		

by Owner



SD Progress Set Estimate

GFA

4,448

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
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FIRE HEADQUARTERS BUILDING

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101400 SIGNAGE

Exterior signage

Building mounted signage - allowance

Interior signage

Room Signs

Miscellaneous signage/graphics - town seals, plaques

SUBTOTAL

Limit to code req'd only

1	ls	5,000.00	5,000
17	loc	120.00	2,040
1	ls	2,500.00	2,500
			9,540

Review

102110 PLASTIC TOILET COMPARTMENTS

Shower enclosure

w/ specialties + plumbing

SUBTOTAL

102213 WIRE MESH PARTITIONS

No work in this section

NR

SUBTOTAL

102600 WALL PROTECTION

Allowance for wall protection

4,448

gfa

0.35

1,557

SUBTOTAL

1,557

102800 TOILET ACCESSORIES

Janitors Closet Accessories

1

rms

300.00

300

Single toilet accessories w/ shower

2

rms

1,250.00

2,500

SUBTOTAL

2,800

104400 FIRE EXTINGUISHER CABINETS

Fire extinguisher cabinets

2

ea

350.00

700

AED cabinets ; allow

1

ea

400.00

400

SUBTOTAL

1,100

105113 LOCKERS

No work in this section

NR

SUBTOTAL

105626 MOBILE STORAGE UNITS

No work in this section

NR

SUBTOTAL

TOTAL - SPECIALTIES	\$17,221
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11 - EQUIPMENT

114000 RESIDENTIAL EQUIPMENT

Appliances

Refrigerator/freezer

by owner if not built in?

2

ea

3,000.00

6,000

Stove cooktop

1

ea

1,500.00

1,500

Range

1

ea

3,000.00

3,000

Hood

2

ea

800.00

1,600

Double oven

1

ea

1,600.00

1,600

Dishwasher

Not Required

SUBTOTAL

13,700



SD Progress Set Estimate

GFA

4,448

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
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FIRE HEADQUARTERS BUILDING

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119000 MISCELLANOUS EQUIPMENT

Equipment allowance	4,448	gsf	1.00	4,448		4,448	
SUBTOTAL							4,448

what is this?

TOTAL - EQUIPMENT							\$18,148
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12 - FURNISHINGS

122410 WINDOW TREATMENT

Manual shades at exterior windows at bunkrooms and bathroom:	7	loc	250.00	1,750			
SUBTOTAL							1,750

123100 CASEWORK & COUNTERTOPS

Incl in millwork above					w/ div 6		
SUBTOTAL							-

124810 ENTRANCE MATS

Walk off mats	120	sf	15.00	1,800			
Recessed entry mats & frames				Assumed Not Required			
SUBTOTAL							1,800

eliminate

TOTAL - FURNISHINGS							\$3,550
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14 - CONVEYING SYSTEMS

140001 ELEVATORS

No work in this section							
SUBTOTAL							-

TOTAL - CONVEYING

21 - FIRE SUPPRESSION

210000 FIRE PROTECTION

No work in this section							
SUBTOTAL							-

TOTAL - FIRE SUPPRESSION

22 - PLUMBING

220000 PLUMBING

<u>Equipment</u>							
Electric domestic hot water heater 50 gallon, 15 kw	1	ea	13,000.00	13,000			
Hot water circulator pump assembly	1	ea	1,800.00	1,800			
Expansion tank	1	ea	600.00	600			
Mixing valve	1	ea	6,500.00	6,500			
2" Reduced pressure backflow preventer	1	ea	2,800.00	2,800			
Freeze-proof wall hydrant	2	ea	500.00	1,000			
Floor drain	2	ea	1,200.00	2,400			



SD Progress Set Estimate

GFA

4,448

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST	
FIRE HEADQUARTERS BUILDING								
426	Miscellaneous plumbing equipment	4,448	gsf	1.00		4,448		
427	<u>Fixtures</u>							
428	Water closet ADA	2	ea	2,200.00		4,400		
429	Lavatory, ADA undermount	2	ea	1,800.00		3,600		
430	ADA Shower with valve and drain	2	ea	3,800.00		7,600		
431	Kitchen sink	2	ea	1,900.00		3,800		
432	Mop sink	1	ea	1,900.00		1,900		
433	Ice maker valve box	1	ea	325.00		325		
434	<u>Domestic Water Piping</u>							
435	Copper pipe type L with fittings & hangers	520	lf	52.00		27,040		
436	Valves & accessories	1	ls	4,000.00		4,000		
437	<u>Pipe insulation</u>							
438	Domestic pipe insulation	520	lf	15.00		7,800		
439	<u>Sanitary and Vent Piping</u>							
440	Sanitary and vent piping	4,448	gsf	7.00		31,136		
441	<u>Storm Drainage</u>							
442	Storm piping (existing to remain)						NIC	
443	<u>Miscellaneous</u>							
444	Demolition	1	ls	5,000.00		5,000		
445	System testing and flushing	1	ls	2,500.00		2,500		
446	Coring, cutting, sleeves & sealing	1	ls	700.00		700		
447	Hydraulic lifts/rigging	1	ls	2,000.00		2,000		
448	Shop drawings / BIM / ENG Support / As-Builts	1	ls	3,500.00		3,500		
449	Commissioning Support	1	ls	1,200.00		1,200		
450	Fees & permits	1	ls	1,750.00		1,750		
451	SUBTOTAL						140,799	
452	TOTAL - PLUMBING							\$140,799
453								
454	23 - HVAC							
455								
456								
457								
458	230000 HVAC							
459	<u>HVAC Equipment</u>							
460	Natural gas boiler (existing to remain)						NIC	
461	VRF outdoor condensing unit	12.5	tons	2,600.00		32,500		
462	VRF indoor cassette unit	13	ea	3,100.00		40,300		
463	Branch selector	2	ea	5,000.00		10,000		
464	Cabinet unit heater, HW	6	ea	1,700.00		10,200		
465	Unit heater, HW	1	ea	1,400.00		1,400		
466	Fin tube radiator	75	lf	160.00		12,000		
467	Electric duct heater, 3 kw	2	ea	1,400.00		2,800		
468	<u>Air distribution</u>							
469	ERV-1 100% OA with desiccant energy recovery	1	ea	12,000.00		12,000		
470	ERV-2 100% OA with desiccant energy recovery	1	ea	12,000.00		12,000		
471	Ceiling exhaust fan, 75 cfm	2	ea	1,100.00		2,200		
472	<u>Sheet metal & Accessories</u>							
473	Galvanized ductwork with fittings & hangers	4,500	lbs	20.00		90,000		
474	Galvanized duct insulation	2,700	sf	6.50		17,550		
475	Grilles, registers & diffusers	21	ea	225.00		4,725		
476	Wall cap (ERV's, Kitchen exhaust hood)	5	ea	1,200.00		6,000		
477	Miscellaneous sheet metal accessories	1	ls	5,000.00		5,000		
478	<u>Piping</u>							



SD Progress Set Estimate

GFA

4,448

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
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FIRE HEADQUARTERS BUILDING

479	<u>Hot Water Piping (New Distribution)</u>							
480	Hot water piping with fittings & hangers	1,475	lf	55.00		81,125		
481	Hot water piping valves & accessories	1	ls	12,000.00		12,000		
482	<u>Refrigerant Piping</u>							
483	Refrigerant piping with fittings & hangers	1,350	lf	50.00		67,500		
484	<u>Condensate Drain Piping</u>							
485	Condensate drain piping with fittings & hangers	270	lf	38.00		10,260		
486	<u>Piping Insulation</u>							
487	Piping insulation	3,095	lf	15.00		46,425		
488	<u>Automatic Temperature Controls</u>							
489	Automatic temperature controls DDC	4,448	sf	7.00		31,136		
490	<u>Balancing</u>							
491	System testing & balancing	4,448	sf	1.50		6,672		
492	<u>Miscellaneous</u>							
493	Demolition	1	ls	7,500.00		7,500		
494	System testing and flushing	1	ls	1,250.00		1,250		
495	Coring, cutting, sleeves & sealing	1	ls	2,000.00		2,000		
496	Hydraulic lifts/rigging	1	ls	4,500.00		4,500		
497	Shop drawings / BIM / ENG Support / As-Builts	1	ls	15,000.00		15,000		
498	Commissioning Support	1	ls	4,000.00		4,000		
499	Fees & permits	1	ls	7,000		7,000		
500	SUBTOTAL						555,043	
501								
502	TOTAL - HVAC							\$555,043
503								
504								
505	26 - ELECTRICAL							
506								
507	Site Electrical							
508	<u>Power</u>							
509	Utility co. back charges, allow					By Owner		
510	Utility pole connections					By others		
511	400A service feeders to weatherhead, including riser	20	lf	200.00		4,000		
512	<u>Communications</u>							
513	Overhead cabling (by others)							
514	<u>Site Lighting</u>							
515	Site Lighting and circuitry/grounding					ETR		
516	<u>Site Security</u>							
517	Site Security					w/Building		
518	<u>EV Stations</u>							
519	Empty conduit to future EV Station					NIC		
520	SUBTOTAL						4,000	
521								
522	Gear & Distribution							
523	<u>Normal Power</u>							
524	Meter provision	1	ea	1,200.00		1,200		
525	400A distribution panelboard	1	ea	20,000.00		20,000		
526	100A MTS	1	ea	3,450.00		3,450		
527	100A panelboard	2	ea	2,500.00		5,000		
528	400A feed	90	ea	197.00		17,730		
529	100A feed	50	ea	38.00		1,900		
530	<u>Emergency Power</u>							
531	Twist lock connection for portable generator	1	ls	3,500.00		3,500		
532	<u>UPS system</u>							
533	UPS system					NIC		



SD Progress Set Estimate

GFA

4,448

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
FIRE HEADQUARTERS BUILDING							
534	<u>Equipment Wiring</u>						
535	Miscellaneous equipment feeds and connections	4,448	sf	2.00	8,896		
536	Over head doors feed and connection	7	ea	2,500.00	17,500		
537	Ceiling exhaust fan feed and connection only	2	ea	650.00	1,300		
538	VRF/HP feed and connection (50A)	1	ea	3,500.00	3,500		
539	VRF cassette feed and connection	13	ea	850.00	11,050		
540	VRF branch controller feed and connection	2	ea	850.00	1,700		
541	ERV feed and connection	2	ea	3,500.00	7,000		
542	WH feed and connection	1	ea	1,000.00	1,000		
543	Circ pump feed and connection	1	ea	1,500.00	1,500		
544	CUH/UH feed and connection	7	ea	1,000.00	7,000		
545	EDH feed and connection	2	ea	1,000.00	2,000		
546	Range receptacle feed and connection	1	ea	650.00	650		
547	SUBTOTAL					115,876	
548							
549	D5020 LIGHTING & POWER						
550	<u>Lighting & Branch Power</u>						
551	2x4 troffer	69	ea	300.00	20,700		
552	4' strip	5	ea	175.00	875		
553	S1	1	ea	400.00	400		
554	W	1	ea	350.00	350		
555	Lobby fixture	6	ea	500.00	3,000		
556	Exit	4	ea	300.00	1,200		
557	<u>Lighting control system</u>						
558	Lighting controls including daylight harvesting system, allow	4,448	gsf	2.50	11,120		
559	<u>Lighting circuitry</u>						
560	Device box	125	ea	38.00	4,750		
561	3/4" EMT	1,000	lf	12.00	12,000		
562	#12 THHN	5,000	lf	1.20	6,000		
563	MC cable	2,500	lf	5.50	13,750		
564	LV cable	1,000	lf	2.00	2,000		
565	<u>Branch devices</u>						
566	Duplex receptacle	41	ea	38.00	1,558		
567	Duplex receptacle in floor box	2	ea	38.00	76		
568	Double Duplex receptacle	14	ea	76.00	1,064		
569	GFI receptacle	9	ea	52.00	468		
570	<u>Branch circuitry</u>						
571	Floor box	1	ea	550.00	550		
572	Device box	66	ea	38.00	2,508		
573	3/4" EMT	500	lf	12.00	6,000		
574	#12 THHN	2,500	lf	1.20	3,000		
575	MC cable	1,200	lf	5.50	6,600		
576	SUBTOTAL					97,969	
577							
578	D5030 COMMUNICATION & SECURITY SYSTEMS						
579	<u>Fire Alarm</u>						
580	Control panel	1	ls	8,500.00	8,500		
581	Beacon	1	ea	225.00	225		
582	UDACT	1	ea	1,000.00	1,000		
583	Knox box	1	ea	350.00	350		
584	Initiating device	9	ea	165.00	1,485		
585	Duct smoke detector with remote test switch	2	ea	550.00	1,100		
586	Audio visual device	9	ea	145.00	1,305		
587	Visual device	2	ea	125.00	250		
588	Modules	10	ea	165.00	1,650		
589	Device box	33	ea	38.00	1,254		



SD Progress Set Estimate

GFA

4,448

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST	
FIRE HEADQUARTERS BUILDING								
590	3/4" EMT	1,650	lf	12.00	19,800			
591	FA cable	4,000	lf	3.00	12,000			
592	Testing and programming	1	ls	2,500.00	2,500			
593	<u>Bi-Directional System</u>							
594	BDA system					NIC		
595	<u>Security System</u>							
596	Head end and licensing	1	ls	10,000.00	10,000			
597	Cameras	8	ea	1,200.00	9,600			
598	Cameras WP	8	ea	1,850.00	14,800			
599	Device box	16	ea	38.00	608			
600	Circuitry	2,000	lf	15.00	30,000			
601	<u>Telephone/Data/CATV</u>							
602	VoIP, data switches/ wireless equipt, computer equipt					By others		
603	MDF closet	1	ls	10,000.00	10,000			
604	2-port device	12	ea	56.00	672			
605	Device box with conduit stub to ceiling	12	ea	165.00	1,980			
606	Cat. 6A cable	5,000	lf	2.40	12,000			
607	<u>Public Address/Clock System</u>							
608	PA system (ETR per narrative)					ETR		
609	<u>Sound Systems</u>							
610	Sound Systems (ETR per narrative)					ETR		
611	<u>Zetron system</u>							
612	Zetron system					By others		
613	Rough-in with conduit and backboxes	1	ls	7,500.00	7,500			
614	<u>Antenna System/Satellite Dish</u>							
615	Rough-in only, conduit and cable tray					ETR		
616	<u>Radio/Dispatch Room</u>							
617	Equipment provided by others					ETR		
618	Rough-in					ETR		
619	<u>E-911 / Radio</u>							
620	E-911 rough-in					ETR		
621	<u>Audio/Visual</u>							
622	A/V equipment/IPTV & Video demand system					ETR		
623	Rough-in and power to AV systems					ETR		
624	SUBTOTAL						148,579	
625								
626	D5040 OTHER ELECTRICAL SYSTEMS							
627	<u>Miscellaneous</u>							
628	Lightning Protection					ETR		
629	Grounding & Bonding	1	ls	8,500.00	8,500			
630	Temp power and lights	1	ls	7,500.00	7,500			
631	Seismic restraints	1	ls	2,500.00	2,500			
632	Coordination, BIM	1	ls	12,000.00	12,000			
633	Fees & Permits	1	ls	5,000.00	5,000			
634	SUBTOTAL						35,500	
635								
636	TOTAL -ELECTRICAL							\$ 401,924
637								
638	31 - EARTHWORK							
639								
640								
641	312000 EARTHWORK							
642	Interior excavation at haunch footings, remove and back fill by hand	1	ea	5,000.00	5,000			
643	SUBTOTAL						5,000	
644								
645	TOTAL - EARTHWORK							\$5,000



North Brookfield Fire / DPW
New Headquarters, Apparatus and DPW
North Brookfield, MA

17-Oct-23

SD Progress Set Estimate

GFA

4,448

<i>CSI CODE</i>	<i>DESCRIPTION</i>	<i>QTY</i>	<i>UNIT</i>	<i>UNIT COST</i>	<i>EST'D COST</i>	<i>SUB TOTAL</i>	<i>TOTAL COST</i>
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FIRE HEADQUARTERS BUILDING



North Brookfield Fire / DPW
 New Headquarters, Apparatus and DPW
 North Brookfield, MA

17-Oct-23

GSF 6,676

SD Progress Set Estimate

CONSTRUCTION COST SUMMARY IN CSI FORMAT

Cost/SF

PUBLIC SAFETY BUILDING

APPARATUS BUILDING

DIV. 2 EXISTING CONDITIONS		\$84,500	
024120 Demolition	\$84,500		
028200 HazMat Remediation	see Summary		
DIV. 3 CONCRETE		\$122,047	
033000 Cast-in-Place Concrete	\$122,047		\$18.28
DIV. 4 MASONRY		\$221,136	
040001 Masonry - FSB	\$221,136		\$33.12
DIV. 5 METALS		\$178,602	
050001 Miscellaneous And Ornamental Iron - FSB	\$13,352		\$2.00
051200 Structural Steel	\$165,250		\$24.75
053100 Steel Decking			
DIV. 6 WOODS & PLASTICS		\$48,081	
061053 Rough Carpentry	\$44,081		\$6.60
064023 Interior Architectural Woodwork	\$4,000		\$0.60
DIV. 7 THERMAL & MOISTURE PROTECTION		\$254,752	
070001 Waterproofing, Dampproofing & Caulking - FSB	\$40,269		\$6.03
070002 Roofing and Flashing - FSB	\$168,515		\$25.24
072100 Thermal Insulation	\$26,278		\$3.94
074213 Insulated Metal Wall Panels			
074293 Siding			
078100 Fireproofing & Firestopping	\$19,690		\$2.95
079500 Expansion Control			
DIV. 8 DOORS & WINDOWS		\$168,640	
080001 Glass and Glazing - FSB			
080002 Metal Windows - FSB			
081110 Doors, Frames and Hardware	\$3,860		\$0.58
083113 Access Doors	\$1,500		\$0.22
083300 Coiling Doors	\$163,280		\$24.46
084110 Aluminum Framed Entrances and Storefronts			
089000 Exterior Louvers			
DIV. 9 FINISHES		\$42,857	
090001 Tile - FSB	\$15,458		\$2.32
090002 Acoustical Tile - FSB	\$4,689		\$0.70
090003 Resilient Flooring - FSB	\$3,452		\$0.52
090004 Painting - FSB	\$12,306		\$1.84



North Brookfield Fire / DPW
 New Headquarters, Apparatus and DPW
 North Brookfield, MA

17-Oct-23

GSF 6,676

SD Progress Set Estimate

CONSTRUCTION COST SUMMARY IN CSI FORMAT

Cost/SF

PUBLIC SAFETY BUILDING

APPARATUS BUILDING

092116	Gypsum Wallboard	\$6,952	\$1.04
096723	Resinous Flooring		
096820	Carpeting		
097200	Wall Coverings		
098400	Acoustic Room Components		

DIV 10 SPECIALTIES

\$7,960

101100	Visual Display Surfaces	\$1,120	\$0.17
101200	Display Cases		
101400	Signage	\$3,340	\$0.50
102100	Toilet Compartments and Cubicles		
102213	Wire Mesh Partitions		
102600	Wall Protection	\$1,200	\$0.18
102800	Toilet Accessories	\$1,250	\$0.19
104400	Fire Protection Specialties	\$1,050	\$0.16
105113	Lockers		
105500	Postal Specialties		
105626	Mobile Storage Units		

DIV. 11 EQUIPMENT

\$50,400

114000	Residential Equipment		
119000	Miscellaneous Equipment	\$50,400	\$7.55

DIV. 12 FURNISHINGS

\$1,200

122410	Window Treatments		
123100	Casework & Countertops		
124810	Entrance Mats and Frames	\$1,200	\$0.18

DIV. 13 SPECIAL CONSTRUCTION

DIV. 14 CONVEYING SYSTEMS

140001 Elevators - FSB

149313 Fire Station Sliding Pole

DIV. 21 FIRE SUPPRESSION

210000 Fire Protection - FSB

DIV. 22 PLUMBING

\$42,850

220000	Plumbing - FSB	\$42,850	\$6.42
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DIV. 23 HVAC

\$161,300

230000	HVAC - FSB	\$161,300	\$24.16
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DIV. 26 ELECTRICAL

\$296,279



North Brookfield Fire / DPW
 New Headquarters, Apparatus and DPW
 North Brookfield, MA

17-Oct-23

GSF 6,676

SD Progress Set Estimate

CONSTRUCTION COST SUMMARY IN CSI FORMAT

Cost/SF

PUBLIC SAFETY BUILDING

APPARATUS BUILDING

260000	Electrical - FSB	\$296,279	\$44.38
DIV. 31 EARTHWORK			\$5,000
311000	Site Preparation		
312000	Earthwork	\$5,000	
SUBTOTAL DIRECT (TRADE) COST		\$1,685,604	\$252.49



SD Progress Set Estimate

GFA

6,676

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
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APPARATUS BUILDING

GROSS FLOOR AREA CALCULATION

First Level - Existing Renovated					6,676		
Mezzanines					N/A		

TOTAL GROSS FLOOR AREA (GFA)						6,676 sf	
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02 - EXISTING CONDITIONS

024120 DEMOLITION

Exterior

Remove non load bearing GWB walls	96	sf	3.00	288		
Remove ceiling	681	sf	2.50	1,703		
Remove flooring, incl clean and repair concrete floor	6,676	sf	2.00	13,352		
Remove interior doors	1	ea	150.00	150		
Remove overhead doors	7	ea	750.00	5,250		
Remove existing window	7	ea	250.00	1,750		
Remove existing roofing					Incl w/ roofing	
Remove existing roof coping	313	lf	8.00	2,504		
Remove existing gutters and downspouts	211	lf	4.00	844		
Remove existing mezz	527	sf	15.00	7,905		
Saw cut existing SOG for new shear walls & plumbing trenching	190	lf	20.00	3,800		
Demo existing SOG for new shear walls & plumbing trenching	350	sf	15.00	5,250		
Misc. demo	6,676	sf	3.00	20,028		
Shoring/Bracing	1	ls	15,000.00	15,000		
Temp protection	6,676	sf	1.00	6,676		
SUBTOTAL						84,500

028200 HAZMAT REMEDIATION

See Summary

SUBTOTAL

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TOTAL - EXISTING CONDITIONS						\$84,500	
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03 - CONCRETE

Slab on grade, 6" th

#4 Rebar dowel into existing concrete slab w/epoxy	190	ea	100.00	19,000		
Mesh Rebar	438	sf	2.50	1,095		
Concrete material	7	cy	180.00	1,260		
Place concrete material	7	cy	130.00	910		
Trowel finish concrete floor	350	sf	3.00	1,050		

Miscellaneous

Allowance for concrete footings at new steel columns - assumes	1	ea	25,000.00	25,000		
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Allowance for Helical piles/Abutting/Tying into existing structure at secondary apparatus bay 4'OC	21	ea	3,000.00	63,000		
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Apparatus Bay - ETR; SC-01: Seal Concrete	5,366	sf	2.00	10,732		
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SUBTOTAL						122,047
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TOTAL - CONCRETE						\$122,047	
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04 - MASONRY



SD Progress Set Estimate

GFA

6,676

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
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APPARATUS BUILDING

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Exterior Walls

	Clean all existing masonry facade	4,088	sf	10.00	40,880		
	Brick grout and repoint	1,012	sf	42.00	42,504		
	CMU; allowance to repair, grout, repoint & rebuild	3,076	sf	25.00	76,900		
	Anchor existing building exterior facade to ceiling joist and roof rafters w/ adhesive anchors	150	loc	200.00	30,000		
	Anchor existing building exterior facade to steel clips	25	loc	200.00	5,000		
	Cut and tooth in new lintel at existing duct penetration	2	loc	1,000.00	2,000		
	Remove and cut in new lintel above overhead doors	3	loc	2,500.00	7,500		
	Staging to exterior wall	4,088	sf	4.00	16,352		
	SUBTOTAL					221,136	

TOTAL - MASONRY	\$221,136
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05 - METALS

050001 METAL FABRICATIONS

	Allowance for misc. metals	6,676	sf	2.00	13,352		
	SUBTOTAL					13,352	

051200 Structural Metals

	Structural steel allowance for brace & moment frames (reinforcing of lateral steel system)	18	tns	8,500.00	153,000		
	Moment connections	1	loc	3,500.00	3,500		
	Field weld steel clips to perimeter of structure for backside of the facade to be anchored to structure	25	loc	100.00	2,500		
	Furnish steel lintels at for existing duct penetrations, 4ft	2	loc	500.00	1,000		
	Furnish steel lintels at for overhead doors opes, 13ft	3	loc	1,750.00	5,250		
	SUBTOTAL					165,250	

053100 Steel Decking

	No work in this section						
	SUBTOTAL					-	

TOTAL - METALS	\$178,602
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06 - WOOD, PLASTICS AND COMPOSITES

061053 ROUGH CARPENTRY

	Rough blocking at partitions	1	ea	500.00	500		
	Rough blocking at interior door/borrow light openings	34	lf	4.50	153		
	Miscellaneous wood blocking at interiors	6,676	gsf	0.50	3,338		
	Double blocking at perimeter of floor joist & ceiling joist @48" O.C	150	ea	20.00	3,000		
	Sister existing roofing at secondary apparatus bay & admin area	2,700	sf	12.00	32,400		
	Misc. rough blocking at roof	3,800	sf	0.50	1,900		
	Rough blocking and plywood strip at roof step K4/A2.30	58	lf	15.00	870		
	Rough blocking at Parapet, detail D9/A5.20	52	lf	10.00	520		
	Rough blocking at new prefinished metal fascia	140	lf	10.00	1,400		
	SUBTOTAL					44,081	



SD Progress Set Estimate

GFA

6,676

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
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APPARATUS BUILDING

064023 ARCHITECTURAL WOODWORK

Countertop, w/ metal bracket	16	lf	250.00	4,000		
Solid surface window sill & apron				Assumed Not Required		
SUBTOTAL						4,000

TOTAL - WOOD, PLASTICS AND COMPOSITES						\$48,081
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07 - THERMAL AND MOISTURE PROTECTION

070001 WATERPROOFING, DAMPPROOFING AND CAULKING

Repair vapor barrier at slab on grade-assumed	350	sf	5.00	1,750		
<u>Exterior Walls</u>						
AVB at door openings - exterior	1,344	lf	6.50	8,736		
Backer rod & double sealant at opes	1,344	lf	10.00	13,440		
<u>Interiors</u>						
Backer rod & double sealant at opes	34	lf	4.50	6,048		
Miscellaneous sealants at partitions	281	sf	1.00	281		
Miscellaneous sealants throughout building	6,676	gsf	1.50	10,014		
SUBTOTAL						40,269

070002 ROOFING AND FLASHING

New EDPM Roofing system over metal deck (placed on existing roof)	3,800	sf	35.00	133,000		
Patch 10% of existing roof, incl removing existing	380	sf	40.00	15,200		
Detail D9/A5.20 - Roof covering up and over parapet	104	sf	20.00	2,080		
Detail D9/A5.20 - Prefinished coping	52	lf	50.00	2,600		
New prefinished metal fascia	140	lf	25.00	3,500		
Roof Step K4/A2.30; Prefinished metal fascia	58	lf	20.00	1,160		
Gutters and downspouts	211	lf	25.00	5,275		
<u>Miscellaneous</u>						
Walkway pads						NR
Roof hatch with perimeter safety railing and gate						NR
Miscellaneous flashings including at pipe penetrations, flashings etc.	3,800	sf	1.50	5,700		
SUBTOTAL						168,515

072100 THERMAL INSULATION

Spray foam closed cell at exterior wall	4,088	sf	6.00	24,528		
Repair slab on grade insulation - assumed	350	sf	5.00	1,750		
SUBTOTAL						26,278

074213 METAL PANELS

No work in this section						
SUBTOTAL						-

074293 SIDING

No work in this section						
SUBTOTAL						-



SD Progress Set Estimate

GFA

6,676

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
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APPARATUS BUILDING

153	078100 FIREPROOFING & FIRE STOPPING							
154	Intumescent paint to interior of façade	4,088	sf	4.00	16,352			
155	Fire stopping throughout	6,676	gsf	0.50	3,338			
156	SUBTOTAL					19,690		
157								
158	079500 EXPANSION CONTROL							
159	No work in this section							
160	SUBTOTAL						-	
161								
162	TOTAL - THERMAL AND MOISTURE PROTECTION							\$254,752

08 - OPENINGS

167	080001 GLASS AND GLAZING							
168	No work in this section							
169	SUBTOTAL						-	
170								
171	080002 METAL WINDOWS							
172	No work in this section							
173	SUBTOTAL						-	
174								
175	081100 DOORS, FRAMES AND HARDWARE							
176	<i>Exterior Doors</i>							
177	Existing doors to remain	2	ea			ETR		
178								
179	<i>Interior Doors</i>							
180	Doors, single	2	ea	500.00	1,000			
181	HM Frame, single	2	ea	450.00	900			
182	Hardware	2	leaf	980.00	1,960			
183	Existing doors to remain	7	ea			ETR		
184	SUBTOTAL						3,860	
185								
186	083113 ACCESS DOORS							
187	Access doors	1	ls	1,500.00	1,500			
188	SUBTOTAL						1,500	
189								
190	083300 OVERHEAD DOORS							
191	Apparatus Bay Overhead Door, 14ft wide by 12 ft	2	ea	20,160.00	40,320			
192	Apparatus Bay Overhead Door, 12ft wide by 12 ft	7	ea	17,280.00	120,960			
193	Premium for single leaf door	1	ls	2,000.00	2,000			
194	SUBTOTAL						163,280	
195								
196	084110 ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS							
197	No work in this section							
198	SUBTOTAL							
199								
200	089119 FIXED LOUVERS							
201	No work in this section							
202	SUBTOTAL						-	
203								
204	TOTAL - OPENINGS							168,640

didnt we remove this?



SD Progress Set Estimate

GFA

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CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
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APPARATUS BUILDING

09 - FINISHES

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090001 TILE

Wall & Floor Finishes

Porcelain to wall	136	sf	38.00	5,168		
Porcelain floor tile	161	sf	42.00	6,762		
TB, tile base	84	lf	42.00	3,528		
SUBTOTAL						15,458

090002 ACT

APC-01: Armstrong Optima	459	sf	7.00	3,213		
APC-02: Armstrong Optima Health Zone	164	sf	9.00	1,476		
SUBTOTAL						4,689

090003 RESILIENT FLOORING

VCT-01	459	sf	6.50	2,984		
Resilient Base	156	lf	3.00	468		
SUBTOTAL						3,452

090004 PAINTING

Finish doors and frames, incl existing	11	ea	250.00	2,750		
Paint to Existing - Lounge, Report & Laundry Rooms (assumed)	1,920	sf	1.50	2,880		
Paint to exposed ceilings	5,376	sf		Assume ETR		
Miscellaneous painting/ touch-up	6,676	gsf	1.00	6,676		
SUBTOTAL						12,306

092116 GWB

EXTERIOR WALLS

No work in this section

PARTITIONS

Partition Type C3.0: 3-5/8" Stud, w/GWB one sides & insulation	77	sf	14.00	1,078		
Partition Type A3.0: 3-5/8" Stud, w/ GWB both sides &	204	sf	18.50	3,774		
Install doors frame	2	ea	150.00	300		
FRP Wall finish	120	sf	15.00	1,800		

CEILINGS

No GWB Ceilings

SUBTOTAL						6,952
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096723 RESINOUS FLOORING

No work in this section

SUBTOTAL						-
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096820 CARPET

No work in this section

SUBTOTAL						-
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097200 WALL COVERINGS

No work in this section

SUBTOTAL						-
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SD Progress Set Estimate

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CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
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APPARATUS BUILDING

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098400	ACOUSTIC ROOM COMPONENTS						
	No work in this section						
	SUBTOTAL						-
TOTAL - FINISHES							\$42,857

10 - SPECIALTIES

101100	VISUAL DISPLAY BOARDS						
	Markerboard/Tackboards - Assumed	32	sf	35.00	1,120		
	SUBTOTAL						1,120
101200	DISPLAY CASES						
	Display case					NR	
	SUBTOTAL						-
101400	SIGNAGE						
	<u>Signage assumed</u>						
	Room Signs	7	loc	120.00	840		
	Miscellaneous signage/graphics - town seals, plaques	1	ls	2,500.00	2,500		
	SUBTOTAL						3,340
102110	PLASTIC TOILET COMPARTMENTS						
	Shower enclosure					w/ specialties + plumbing	
	SUBTOTAL						-
102213	WIRE MESH PARTITIONS						
	No work in this section					NR	
	SUBTOTAL						-
102600	WALL PROTECTION						
	Allowance for wall protection	1	ls	1,200.00	1,200		
	SUBTOTAL						1,200
102800	TOILET ACCESSORIES						
	Single toilet accessories w/ shower	1	rms	1,250.00	1,250		
	SUBTOTAL						1,250
104400	FIRE EXTINGUISHER CABINETS						
	Fire extinguisher cabinets	2	ea	350.00	700		
	AED cabinets ; allow	1	ea	350.00	350		
	SUBTOTAL						1,050
105113	LOCKERS						
	See Equipment						
	SUBTOTAL						-
105626	MOBILE STORAGE UNITS						
	No work in this section						
	SUBTOTAL						-
TOTAL - SPECIALTIES							\$7,960



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CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
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APPARATUS BUILDING

11 - EQUIPMENT

114000 RESIDENTIAL EQUIPMENT

No work in this section

SUBTOTAL

119000 MISCELLANEOUS EQUIPMENT

Washer - OFOI

OFOI

Work Bench - OFOI

OFOI

Heavy duty shelf - OFOI

OFOI

SCBA Bottle Fill Station - OFOI

OFOI

Res. Appliance - Stove OFOI

OFOI

Res. Appliance - Fridge OFOI

OFOI

FC-01: Flammable Cabinet - OFOI

OFOI

D: Dryer - OFOI

OFOI

LK-01: Turnout gear lockers, 18" wide - CFCI

28

ea

1,800.00

50,400

SUBTOTAL

50,400

Review with Owner

TOTAL - EQUIPMENT \$50,400

12 - FURNISHINGS

122410 WINDOW TREATMENT

Assume not required

SUBTOTAL

123100 CASEWORK & COUNTERTOPS

w/ div 6

SUBTOTAL

124810 ENTRANCE MATS

Walk off mats - assumed

by owner

80

sf

15.00

1,200

SUBTOTAL

1,200

TOTAL - FURNISHINGS \$1,200

14 - CONVEYING SYSTEMS

140001 ELEVATORS

NR

No work in this section

SUBTOTAL

TOTAL - CONVEYING

21 - FIRE SUPPRESSION

210000 FIRE PROTECTION

No work in this section

SUBTOTAL

TOTAL - FIRE SUPPRESSION

313
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CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
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APPARATUS BUILDING

368

369

22 - PLUMBING

370

371

220000 PLUMBING

372

Equipment

373

Electric domestic hot water heater 20 gallon, 2.5 kw

1

ea

5,500.00

5,500

374

Hot water circulator pump assembly

1

ea

1,200.00

1,200

375

Expansion tank

1

ea

400.00

400

376

Mixing valve

1

ea

6,500.00

6,500

377

Floor drain

1

ea

1,200.00

1,200

378

Fixtures

379

Water closet ADA

1

ea

2,200.00

2,200

380

Lavatory, ADA undermount

1

ea

1,800.00

1,800

381

ADA Shower with valve and drain

1

ea

3,800.00

3,800

382

Domestic Water Piping

383

Branch fixture piping & connection

3

ea

1,200.00

3,600

384

Pipe insulation

385

Branch fixture piping & connection

3

ea

450.00

1,350

386

Sanitary and Vent Piping

387

Branch fixture piping & connection

3

ea

1,500.00

4,500

388

Natural Gas Piping

389

Unit heater disconnect & reconnect

3

ea

1,600.00

4,800

390

Storm Drainage

391

Storm piping (existing to remain)

NIC

392

Miscellaneous

393

Demolition

1

ls

2,000.00

2,000

394

System testing and flushing

1

ls

500.00

500

395

Coring, cutting, sleeves & sealing

1

ls

300.00

300

396

Hydraulic lifts/rigging

1

ls

500.00

500

397

Shop drawings / BIM / ENG Support / As-Builts

1

ls

1,000.00

1,000

398

Commissioning Support

1

ls

1,200.00

1,200

399

Fees & permits

1

ls

500.00

500

400

SUBTOTAL

42,850

401

402

TOTAL - PLUMBING \$42,850

403

404

405

23 - HVAC

406

407

230000 HVAC

408

HVAC Equipment

409

Gas-fired unit heater, HW

3

ea

1,700.00

5,100

410

Electric unit heater

4

ea

1,200.00

4,800

411

Air distribution

412

Vehicle exhaust system with fan and 7 hose drops

1

ea

65,000.00

65,000

413

Utility set exhaust fan, 5000 cfm

1

ea

13,500.00

13,500

414

Ceiling exhaust fan, 75 cfm

1

ea

1,100.00

1,100

415

Sheet metal & Accessories

416

Vehicle exhaust ductwork system

1

ls

15,000.00

15,000

417

Unit heater flue; connect to existing at roof penetration

3

ea

1,200.00

3,600

418

Automatic Temperature Controls

419

Vehicle exhaust fan controls

1

ls

10,000.00

10,000



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CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
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APPARATUS BUILDING

420	Exhaust fan controls include (2) sets of CO/NO2 sensors	1	ls	20,000.00		20,000		
421	Ceiling fan control interlock	1	ls	2,000.00		2,000		
422	<u>Balancing</u>							
423	System testing & balancing	1	ls	5,000.00		5,000		
424	<u>Miscellaneous</u>							
425	Demolition	1	ls	4,000.00		4,000		
426	System testing and flushing	1	ls	400.00		400		
427	Coring, cutting, sleeves & sealing	1	ls	800.00		800		
428	Hydraulic lifts/rigging	1	ls	2,000.00		2,000		
429	Shop drawings / BIM / ENG Support / As-Builts	1	ls	5,000.00		5,000		
430	Commissioning Support	1	ls	2,500.00		2,500		
431	Fees & permits	1	ls	1,500		1,500		
432	SUBTOTAL						161,300	
433								
434	TOTAL - HVAC							\$161,300
435								
436								
437	26 - ELECTRICAL							
438								
439	Site Electrical							
440	<u>Power</u>							
441	Utility co. back charges, allow						By Owner	
442	Utility pole connections						By others	
443	200A service feeders to weatherhead, including riser	150	lf	85.00		12,750		
444	Riser to overhead cables with weatherhead	1	ls	1,000.00		1,000		
445	<u>Communications</u>							
446	Overhead cabling (by others)							
447	<u>Site Lighting</u>							
448	Site Lighting and circuitry/grounding						ETR	
449	<u>Site Security</u>							
450	Pole mounted cameras and circuitry (on building)						w/Building	
451	SUBTOTAL						13,750	
452								
453	Gear & Distribution							
454	<u>Normal Power</u>							
455	Meter provision	1	ea	5,000.00		5,000		
456	200A panelboard (it is anticipated that this panelboard will be	1	ea	4,000.00		4,000		
457	<u>Emergency Power</u>							
458	Emergency Power						ETR	
459	<u>Feeders</u>							
460	200A feed (See site work)						Site work	
461	<u>Equipment Wiring</u>							
462	Miscellaneous equipment feeds and connections	6,676	sf	1.00		6,676		
463	Over head doors feed and connection	8	ea	2,500.00		20,000		
464	Air compressor feed and connection (100A)	1	ea	1,000.00		1,000		
465	100A feed to Air compressor	100	lf	40.00		4,000		
466	Vehicle exhaust feed and connection	1	ea	3,500.00		3,500		
467	EF feed and connection	2	ea	1,000.00		2,000		
468	EUH/UH feed and connection	2	ea	1,000.00		2,000		
469	SUBTOTAL						48,176	
470								
471	D5020 LIGHTING & POWER							
472	<u>Lighting & Branch Power</u>							
473	Bay lights and installation (8' Strip)	33	ea	550.00		18,150		
474	2x4 troffer	16	ea	300.00		4,800		
475	Exit	4	ea	300.00		1,200		
476	Exterior building lighting						ETR	



SD Progress Set Estimate

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6,676

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST	
APPARATUS BUILDING								
477	<u>Lighting control system</u>							
478	Lighting controls including daylight harvesting system, allow	6,676	sf	2.00	13,352			
479	<u>Lighting circuitry</u>							
480	Device box	60	ea	38.00	2,280			
481	3/4" EMT	2,000	lf	12.00	24,000			
482	#12 THHN	10,000	lf	1.20	12,000			
483	<u>Branch devices</u>							
484	Branch devices	6,676	sf	0.50	3,338			
485	<u>Branch circuitry</u>							
486	Branch circuitry	6,676	sf	4.00	26,704			
487	SUBTOTAL					105,824		
488								
489	D5030 COMMUNICATION & SECURITY SYSTEMS							
490	<u>Fire Alarm</u>							
491	Fire Alarm System (ETR per narrative)					ETR		
492	<u>Security System</u>							
493	Head end and licensing	1	ls	10,000.00	10,000			
494	Cameras	8	ea	1,200.00	9,600			
495	Cameras WP	8	ea	1,850.00	14,800			
496	Device box	16	ea	38.00	608			
497	Circuitry	2,000	lf	15.00	30,000			
498	<u>Telephone/Data/CATV</u>							
499	MDF closet	1	ls	8,500.00	8,500			
500	Tel/Data cabling	6,676	sf	1.50	10,014			
501	Telecommunications rough in	6,676	sf	0.75	5,007			
502	<u>Public Address/Clock System</u>							
503	PA system (ETR per narrative)					ETR		
504	SUBTOTAL					88,529		
505								
506	D5040 OTHER ELECTRICAL SYSTEMS							
507	<u>Miscellaneous</u>							
508	Lightning Protection	1	ls	10,000.00	10,000			
509	Grounding & Bonding	1	ls	5,000.00	5,000			
510	Temp power and lights	1	ls	10,000.00	10,000			
511	Seismic restraints	1	ls	2,500.00	2,500			
512	Coordination, BIM	1	ls	8,500.00	8,500			
513	Fees & Permits	1	ls	4,000.00	4,000			
514	SUBTOTAL					40,000		
515								
516	TOTAL -ELECTRICAL						\$296,279	
517								
518	31 - EARTHWORK							
519								
520								
521	312000 EARTHWORK							
522	Interior excavation at haunch &misc. interior footing, remove and back fill by hand	1	ea	5,000.00	5,000			
523	SUBTOTAL					5,000		
524	TOTAL - EARTHWORK						\$5,000	
525								



Need to review full scope with DPW and
Selectboard Members for confirmation.

North Brookfield Fire / DPW
New Headquarters, Apparatus and DPW
North Brookfield, MA

17-Oct-23

GSF 6,938

SD Progress Set Estimate

CONSTRUCTION COST SUMMARY IN CSI FORMAT	Cost/SF
<i>PUBLIC SAFETY BUILDING</i>	

DPW BUILDING

DIV. 2 EXISTING CONDITIONS

024120	Demolition	\$74,938		\$74,938
028200	HazMat Remediation	see Summary		

DIV. 3 CONCRETE

033000	Cast-in-Place Concrete	\$84,628		\$12.20
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DIV. 4 MASONRY

040001 Masonry - FSB

DIV. 5 METALS

050001 Miscellaneous And Ornamental Iron - FSB		\$13,876		\$2.00
051200	Structural Steel	\$6,750		\$0.97
053100	Steel Decking	\$1,350		\$0.19

DIV. 6 WOODS & PLASTICS

				\$187,911
061053	Rough Carpentry	\$185,261		\$26.70
064023	Interior Architectural Woodwork	\$2,650		\$0.38

DIV. 7 THERMAL & MOISTURE PROTECTION

070001 Waterproofing, Dampproofing & Caulking - FSB		\$15,586		\$2.25
070002 Roofing and Flashing - FSB		\$307,165		\$44.27
072100	Thermal Insulation	\$65,336		\$9.42
074213	Insulated Metal Wall Panels	\$29,340		\$4.23
074293	Siding			
078100	Fireproofing & Firestopping	\$1,041		\$0.15
079500	Expansion Control			

DIV. 8 DOORS & WINDOWS

				\$245,940
080001 Glass and Glazing - FSB				
080002 Metal Windows - FSB		\$23,900		\$3.44
081110	Doors, Frames and Hardware	\$16,700		\$2.41
083113	Access Doors	\$1,500		\$0.22
083300	Coiling Doors	\$203,840		\$29.38
084110	Aluminum Framed Entrances and Storefronts			
089000	Exterior Louvers			

DIV. 9 FINISHES

				\$68,292
090001 Tile - FSB		\$22,372		\$3.22
090002 Acoustical Tile - FSB		\$3,556		\$0.51
090003 Resilient Flooring - FSB		\$9,573		\$1.38
090004 Painting - FSB		\$11,572		\$1.67
092116	Gypsum Wallboard	\$21,219		\$3.06



North Brookfield Fire / DPW
 New Headquarters, Apparatus and DPW
 North Brookfield, MA

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GSF 6,938

SD Progress Set Estimate

CONSTRUCTION COST SUMMARY IN CSI FORMAT

Cost/SF

PUBLIC SAFETY BUILDING

DPW BUILDING

- 096723 Resinous Flooring
- 096820 Carpeting
- 097200 Wall Coverings
- 098400 Acoustic Room Components

DIV 10 SPECIALTIES

\$9,090

101100 Visual Display Surfaces	\$1,120	\$0.16
101200 Display Cases		
101400 Signage	\$3,220	\$0.46
102100 Toilet Compartments and Cubicles		
102213 Wire Mesh Partitions		
102600 Wall Protection	\$1,200	\$0.17
102800 Toilet Accessories	\$2,500	\$0.36
104400 Fire Protection Specialties	\$1,050	\$0.15
105113 Lockers		
105500 Postal Specialties		
105626 Mobile Storage Units		

DIV. 11 EQUIPMENT

\$4,500

114000 Residential Equipment	\$4,500	\$0.65
119000 Miscellaneous Equipment		

DIV. 12 FURNISHINGS

\$1,200

122410 Window Treatments		
123100 Casework & Countertops		
124810 Entrance Mats and Frames	\$1,200	\$0.17

DIV. 13 SPECIAL CONSTRUCTION

DIV. 14 CONVEYING SYSTEMS

140001 Elevators - FSB

- 149313 Fire Station Sliding Pole

DIV. 21 FIRE SUPPRESSION

210000 Fire Protection - FSB

DIV. 22 PLUMBING

\$61,500

220000 Plumbing - FSB	\$61,500	\$8.86
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DIV. 23 HVAC

\$33,800

230000 HVAC - FSB	\$33,800	\$4.87
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DIV. 26 ELECTRICAL

\$155,343

260000 Electrical - FSB	\$155,343	\$22.39
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North Brookfield Fire / DPW
 New Headquarters, Apparatus and DPW
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GSF 6,938

SD Progress Set Estimate

CONSTRUCTION COST SUMMARY IN CSI FORMAT

Cost/SF

PUBLIC SAFETY BUILDING

DPW BUILDING

DIV. 31 EARTHWORK	\$12,215
311000 Site Preparation	
312000 Earthwork	\$12,215

SUBTOTAL DIRECT (TRADE) COST	\$1,379,801	\$198.88
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SD Progress Set Estimate

GFA

6,938

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
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DPW BUILDING

GROSS FLOOR AREA CALCULATION

First Level - Existing Renovated					6,252		
Mezzanines					686		

TOTAL GROSS FLOOR AREA (GFA)					6,938	sf	
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02 - EXISTING CONDITIONS

024120 DEMOLITION

Demolition

Remove and disposed of brick veneer at foundation wall	101	sf	15.00	1,515		
Remove ceiling	520	sf	2.50	1,300		
Remove flooring	520	sf	2.00	1,040		
Remove doors	5	ea	150.00	750		
Remove overhead doors	7	ea	750.00	5,250		
Remove existing window	10	ea	250.00	2,500		
Remove portion of guardrail to accommodate new door location	1	ea	500.00	500		
Strip existing timber flooring					Incl w/ flooring	
Remove existing roofing					Incl w/ roofing	
Remove and dispose of vinyl faced batt insulation at exterior façade and roof	10,681	sf	1.00	10,681		
Saw cut existing SOG for new shear walls & plumbing trenching	120	elf	20.00	2,400		
Demo existing SOG for new shear walls & plumbing trenching	250	sf	15.00	3,750		
Demolish existing shed, slab to remain	1	ea	2,500.00	2,500		
Misc. demo	6,938	sf	3.00	20,814		
Shoring/Bracing	1	ls	15,000.00	15,000		
Temp protection	6,938	sf	1.00	6,938		
SUBTOTAL						74,938

028200 HAZMAT REMEDIATION

See Summary

SUBTOTAL

TOTAL - EXISTING CONDITIONS					\$74,938
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03 - CONCRETE

Concrete Haunch Footing at Shear Walls	60	lf				
Formwork					Assume Not Required	
Rebar	800	lbs	2.50	2,000		
Concrete material	8	cy	180.00	1,440		
Place and finish concrete material	8	cy	130.00	1,040		
<u>Slab on grade, 6" th</u>						
#4 Rebar dowel into existing concrete slab w/epoxy	120	ea	100.00	12,000		
Mesh Rebar	325	sf	2.50	813		
Concrete material	6	cy	180.00	1,080		
Place concrete material	6	cy	130.00	780		
Trowel finish concrete floor	250	sf	3.00	750		
<u>Fuel Tank Canopy Strip Footing, 2ft by 1ft</u>	85	lf				
Formwork	170	sf	18.00	3,060		
Rebar	700	lbs	2.50	1,750		
Concrete material	7	cy	180.00	1,260		



SD Progress Set Estimate

GFA

6,938

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
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DPW BUILDING

54	Place and finish concrete material	7	cy	130.00		910	
55	<u>Fuel Tank Canopy Foundation Wall, 8" th</u>	85	lf				
56	Formwork	680	sf	18.00		12,240	
57	Rebar	900	lbs	2.50		2,250	
58	Concrete material	9	cy	180.00		1,620	
59	Place and finish concrete material	9	cy	130.00		1,170	
60	<u>Fuel Tank Canopy slab on grade, 10" th</u>	366	sf				
61	#4 Rebar at 12" O.C EW T&B	981	lbs	2.50		2,453	
62	Concrete material	12	cy	180.00		2,160	
63	Place concrete material	12	cy	180.00		2,160	
64	Trowel finish concrete floor	366	sf	3.00		1,098	
65	<u>Miscellaneous</u>						
66	Allowance for reinforced concrete footings to be constructed to support any new vehicle lifts that may be installed as part of the building renovation project.	1	ea	20,000.00		20,000	
67	Parge coat to North Elevation concrete foundation wall	101	sf	30.00		3,030	
68	Garage Bay - ETR; SC-01: Seal Concrete	4,782	sf	2.00		9,564	
69	SUBTOTAL						84,628

TOTAL - CONCRETE	\$84,628
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04 - MASONRY

76	<u>Masonry</u>						
77	No work in this section						
78	SUBTOTAL						-

TOTAL - MASONRY

05 - METALS

85	050001 METAL FABRICATIONS						
86	Allowance for misc. metals	6,938	sf	2.00		13,876	
87	SUBTOTAL						13,876
89	051200 Structural Metals						
90	New fuel storage steel framing and deck , incl columns	90	sf	75.00		6,750	
91	SUBTOTAL						6,750
93	053100 Steel Decking						
94	New fuel storage steel decking	90	sf	15.00		1,350	
95	SUBTOTAL						1,350

TOTAL - METALS	\$21,976
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06 - WOOD, PLASTICS AND COMPOSITES

102	061053 ROUGH CARPENTRY						
103	<u>Structural upgrades</u>						
104	Allowance for new Z Purlins centered between existing joist (to reinforce existing roof)	6,252	sf	20.00		125,040	
105	Sister existing 2 x 10 Mezz framing with LVL solid blocking	475	sf	12.00		5,700	

Review

By owner Pre-fab unit,
 assembled by other



SD Progress Set Estimate

GFA

6,938

Material by Owner?
 Labor by Baypath?

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
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DPW BUILDING

106	New Mezz framing, TJI	211	sf	10.00	2,110		
107	Plywood decking	211	sf	6.00	1,266		
108	Allowance to build up LGMF at existing exterior wall; the reinforcing will include built-up light-gauge metal stud columns at the girt third points	3,481	sf	10.00	34,810		
109	Frame new header support and post at new exterior wall window opening	1	ea	750.00	750		
110	Frame new header support and post at new interior wall window opening	1	ea	600.00	600		
111	<u>Wood blocking</u>						
112	Rough blocking at roof	7,200	sf	1.50	10,800		
113	Rough blocking at partitions	43	lf	4.50	194		
114	Rough blocking at interior door/borrow light openings	116	lf	4.50	522		
115	Miscellaneous wood blocking at interiors	6,938	gsf	0.50	3,469		
116	SUBTOTAL						185,261

064023 ARCHITECTURAL WOODWORK

Interior

120	Kitchen RM 106: Kitchenet Base Unit & Countertop	4	lf	550.00	2,200		
121	Solid surface window sill & apron	6	lf	75.00	450		
122	Miscellaneous architectural woodwork; allowance				Assumed Not Required		
123	SUBTOTAL						2,650

TOTAL - WOOD, PLASTICS AND COMPOSITES

\$187,911

07 - THERMAL AND MOISTURE PROTECTION

070001 WATERPROOFING, DAMPPROOFING AND CAULKING

132	Repair vapor barrier at slab on grade-assumed	250	sf	5.00	1,250		
133	<u>Exterior Walls</u>						
134	AVB at window/storefront/doors openings	158	lf	6.50	1,027		
135	Backer rod & double sealant at opes	158	lf	10.00	1,580		
136	<u>Interiors</u>						
137	Backer rod & double sealant at opes	116	lf	10.00	1,160		
138	Miscellaneous sealants at partitions	648	sf	0.25	162		
139	Miscellaneous sealants building façade				Assumed Not Required		
140	Miscellaneous sealants throughout building	6,938	gsf	1.50	10,407		
141	SUBTOTAL						15,586

070002 ROOFING AND FLASHING **Filed subbid**

144	New EDPM Roofing system over metal deck, incl removal of existing	7,200	sf	38.00	273,600		
145	Roof to wall flashing	43	lf	30.00	1,290		
146	Prefinished metal fascia	420	lf	30.00	12,600		
147	Gutters and downspouts	355	lf	25.00	8,875		
148	<u>Miscellaneous</u>						
149	Walkway pads						NR
150	Roof hatch with perimeter safety railing and gate						NR
151	Miscellaneous flashings including at pipe penetrations, flashings etc.	7,200	sf	1.50	10,800		
152	SUBTOTAL						307,165

072100 THERMAL INSULATION

155	Spray foam closed cell at roof	7,200	sf	6.00	43,200		
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SD Progress Set Estimate

GFA

6,938

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST	
DPW BUILDING								
156	Spray foam closed cell at exterior wall	3,481	sf	6.00	20,886			
157	Repair slab on grade insulation - assumed	250	sf	5.00	1,250			
158	SUBTOTAL					65,336		
159								
160	074213 METAL PANELS							
161	Metal siding repair, allow 10% - per note on drawing A2.10	348	sf	80.00	27,840			
162	Cut opening into metal panel and repair , prep for new window	1	ea	1,500.00	1,500			
163	SUBTOTAL					29,340		
164								
165	074293 SIDING							
166	No work in this section							
167	SUBTOTAL					-		
168								
169	078100 FIREPROOFING & FIRE STOPPING							
170	Fire proofing - Assumed not required				NR			
171	Fire stopping throughout	6,938	gsf	0.15	1,041			
172	SUBTOTAL					1,041		
173								
174	079500 EXPANSION CONTROL							
175	No work in this section							
176	SUBTOTAL					-		
177								
178	TOTAL - THERMAL AND MOISTURE PROTECTION						\$418,468	
179								
180								
181	o8 - OPENINGS							
182								
183	080001 GLASS AND GLAZING							
184	No work in section							
185	SUBTOTAL					-		
186								
187	080002 METAL WINDOWS							
188	<u>Exterior Glazing Systems</u>							
189	Aluminum storefront windows	142	sf	150.00	21,300			
190	SL-01: Alum. Framed and sliding window, 3'-04" x 4'-02" (interior)	1	ea	2,600.00	2,600			
191	SUBTOTAL					23,900		
192								
193	081100 DOORS, FRAMES AND HARDWARE							
194	<i>Exterior Doors</i>							
195	HM flush door, single	2	ea	400.00	NR			
196	HM frame, single	2	ea	450.00	NR			
197	Hardware	2	leaf	1,400.00	NR			
198	Automatic door opener - allow	1	loc	5,000.00	5,000			
199								
200	<i>Interior Doors</i>							
201	Doors, single	6	ea	500.00	3,000			
202	HM Frame, single	6	ea	450.00	2,700			
203	Hardware	6	leaf	1,000.00	6,000			
204	SUBTOTAL					16,700		
205								
206	083113 ACCESS DOORS							
207	Access doors	1	ls	1,500.00	1,500			
208	SUBTOTAL					1,500		
209								

by Owner

If these will be installed by Baypath, who will purchase product



SD Progress Set Estimate

GFA

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CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
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DPW BUILDING

210	083300 OVERHEAD DOORS							
211	<i>Exterior doors; glazed - Insulated</i>							
212	Overhead coiling door - 14'-00" x 14'-00" - Solid	5	ea	23,520.00	117,600			
213	Overhead coiling door - 14'-00" x 14'-00" - Solid & Glazed	2	ea	43,120.00	86,240			
214	SUBTOTAL					203,840		
215	discussed bid doors with electrical by Baypath							
216								
217	084110 ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS					w/ windows		
218	SUBTOTAL						-	
219								
220	089119 FIXED LOUVERS							
221	Louvers					Not Required		
222	SUBTOTAL						-	
223								
224	TOTAL - OPENINGS							245,940
225								
226								
227	09 - FINISHES							
228								
229	090001 TILE							
230	<i>Wall & Floor Finishes</i>							
231	Toilet RM 104: Wall Tile, Wainscot 3'-06" ht	87	sf	42.00	3,654			
232	Toilet RM 105: Wall Tile, Full HT 7'-06"	272	sf	42.00	11,424			
233	Porcelain floor tile	129	sf	42.00	5,418			
234	TB, tile base	67	lf	28.00	1,876			
235	SUBTOTAL						22,372	
236								
237	090002 ACT							
238	ACT-01: Armstrong Optima	508	sf	7.00	3,556			
239	SUBTOTAL						3,556	
240								
241	090003 RESILIENT FLOORING							
242	VCT-01	568	sf	6.50	3,692			
243	Mezzanine Level	824	sf	6.50	5,356			
244	Resilient Base	175	lf	3.00	525			
245	SUBTOTAL						9,573	
246								
247	090004 PAINTING							
248	Finish doors and frames	8	ea	160.00	1,280			
249	Paint to GWB	3,060	sf	1.00	3,060			
250	Paint to GWB ceilings	196	sf	1.50	294			
251	Paint to exposed ceilings					Not Required		
252	Miscellaneous painting	6,938	gsf	1.00	6,938			
253	SUBTOTAL						11,572	
254								
255	092116 GWB							
256	<i>EXTERIOR WALLS</i>							
257	No work in this section							
258	Partition, stairs, and Mezzanine by Baypath, Product from Howe Lumber?							
259	<i>PARTITIONS</i>							
260	Partition Type C3.0: 6" WD Stud, w/ Plywood layer and GWB one sides & insulation	288	sf	18.00	5,184			
261	Partition Type A3.0: 6" WD Stud, w/ Plywood layer, GWB both sides & insulation	265	sf	22.50	5,963			



SD Progress Set Estimate

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CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST	
DPW BUILDING								
262	Partition Type A3.0: 3-5/8" Stud, w/ GWB both sides & insulation	95	sf	18.50	1,758			
263	Patch and prep existing for painting	2,052	sf	1.00	2,052			
264	Install doors frame	13	ea	150.00	1,950			
265								
266	<i>CEILINGS</i>							
267	GWB Ceiling	196	sf	22.00	4,312			
268	SUBTOTAL						21,219	
269								
270	096723 RESINOUS FLOORING							
271	No work in this section							
272	SUBTOTAL						-	
273								
274	096820 CARPET							
275	No work in this section							
276	SUBTOTAL						-	
277								
278	097200 WALL COVERINGS							
279	No work in this section							
280	SUBTOTAL						-	
281								
282	098400 ACOUSTIC ROOM COMPONENTS							
283	No work in this section							
284	SUBTOTAL						-	
285								
286	TOTAL - FINISHES							\$68,292
287								
288								
289	10 - SPECIALTIES							
290								
291	101100 VISUAL DISPLAY BOARDS							
292	Markerboard/Tackboards - Allowance	32	sf	35.00	1,120			
293	SUBTOTAL						1,120	
294								
295	101200 DISPLAY CASES							
296	Display case , allow					NR		
297	SUBTOTAL						-	
298								
299	101400 SIGNAGE							
300	<u>Exterior signage</u>							
301	Building mounted signage					Assume Not Required		
302	<u>Interior signage - assumed</u>							
303	Room Signs	6	loc	120.00	720			
304	Miscellaneous signage/graphics - town seals, plaques	1	ls	2,500.00	2,500			
305	SUBTOTAL						3,220	
306								
307	102110 PLASTIC TOILET COMPARTMENTS							
308	Shower enclosure					w/ specialties + plumbing		
309	SUBTOTAL						-	
310								
311	102213 WIRE MESH PARTITIONS							
312	No work in this section							
313	SUBTOTAL						-	
314								
315	102600 WALL PROTECTION							
316	Allowance for wall protection	1	ls	1,200.00	1,200			

eliminate

Code required only



North Brookfield Fire / DPW
 New Headquarters, Apparatus and DPW
 North Brookfield, MA

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SD Progress Set Estimate

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CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
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DPW BUILDING

317							
	SUBTOTAL					1,200	
318							
319	102800 TOILET ACCESSORIES						
320	Single toilet accessories w/ shower	2	rms	1,250.00	2,500		
321	SUBTOTAL					2,500	
322							



SD Progress Set Estimate

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CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
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DPW BUILDING

323	104400 FIRE EXTINGUISHER CABINETS							
324	Fire extinguisher cabinets	2	ea	350.00	700			
325	AED cabinets ; allow	1	ea	350.00	350			
326	SUBTOTAL						1,050	
327								
328	105113 LOCKERS							
329	No work in this section							
330	SUBTOTAL						-	
331								
332	105626 MOBILE STORAGE UNITS							
333	No work in this section							
334	SUBTOTAL						-	
335								
336	TOTAL - SPECIALTIES							\$9,090

11 - EQUIPMENT

341	114000 RESIDENTIAL EQUIPMENT							
342	<u>Appliances</u>							
343	Stove	1	ea	1,500.00	1,500			
344	Refrigerator/freezer	1	ea	3,000.00	3,000			
345	SUBTOTAL						4,500	
346								
347	119000 MISCELLANOUS EQUIPMENT							
348	119000 No work in this section							
349	SUBTOTAL						-	
350								
351	TOTAL - EQUIPMENT							\$4,500

12 - FURNISHINGS

356	122410 WINDOW TREATMENT							
357	Manual shades at exterior windows					Assumed Not Required		
358	SUBTOTAL						-	
359								
360	123100 CASEWORK & COUNTERTOPS					w/ div 6		
361	Incl in millwork above							
362	SUBTOTAL						-	
363								
364	124810 ENTRANCE MATS							
365	Walk off mats - assumed	80	sf	15.00	1,200			
366	SUBTOTAL						1,200	
367								
368	TOTAL - FURNISHINGS							\$1,200

14 - CONVEYING SYSTEMS

373	140001 ELEVATORS							
374	No work in this section							
375	SUBTOTAL						-	
376								
377	TOTAL - CONVEYING							



SD Progress Set Estimate

GFA

6,938

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
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DPW BUILDING

21 - FIRE SUPPRESSION

210000 FIRE PROTECTION

No work in this section

SUBTOTAL

TOTAL - FIRE SUPPRESSION

22 - PLUMBING

220000 PLUMBING

Equipment

Electric domestic hot water heater 30 gallon, 5 kw 1 ea 7,800.00 7,800

Hot water circulator pump assembly 1 ea 1,500.00 1,500

Expansion tank 1 ea 500.00 500

Mixing valve 1 ea 6,500.00 6,500

Floor drain 2 ea 1,200.00 2,400

Fixtures

Water closet ADA 2 ea 2,200.00 4,400

Lavatory, ADA wall-hung 2 ea 1,950.00 3,900

ADA Shower with valve and drain 1 ea 3,800.00 3,800

Kitchen sink 1 ea 1,900.00 1,900

Domestic Water Piping

Branch fixture piping & connection 6 ea 1,200.00 7,200

Pipe insulation

Branch fixture piping & connection 6 ea 450.00 2,700

Sanitary and Vent Piping

Branch fixture piping & connection 6 ea 1,500.00 9,000

Storm Drainage

Storm piping (existing to remain) NIC

Miscellaneous

Demolition 1 ls 4,000.00 4,000

System testing and flushing 1 ls 1,000.00 1,000

Coring, cutting, sleeves & sealing 1 ls 500.00 500

Hydraulic lifts/rigging 1 ls 1,000.00 1,000

Shop drawings / BIM / ENG Support / As-Builts 1 ls 1,500.00 1,500

Commissioning Support 1 ls 1,200.00 1,200

Fees & permits 1 ls 700.00 700

SUBTOTAL 61,500

TOTAL - PLUMBING \$61,500

23 - HVAC

230000 HVAC

HVAC Equipment

Waste oil unit heater 1 ea 7,000.00 7,000

Waste oil transfer pump assembly 1 ea 2,500.00 2,500

Waste oil storage tank by owner NIC



North Brookfield Fire / DPW
New Headquarters, Apparatus and DPW
North Brookfield, MA

17-Oct-23

SD Progress Set Estimate

GFA

6,938

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
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DPW BUILDING

431

Electric unit heater

1 ea 1,200.00 1,200



SD Progress Set Estimate

GFA

6,938

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
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DPW BUILDING

432	<u>Piping</u>						
433	<u>Waste Oil Piping</u>						
434	Waste oil piping with fittings, hangers & connections	1	ls	10,000.00	10,000		
435	<u>Automatic Temperature Controls</u>						
436	Waste oil heating system	1	ls	5,000.00	5,000		
437	<u>Balancing</u>						
438	System testing & balancing	1	ls	1,000.00	1,000		
439	<u>Miscellaneous</u>						
440	Demolition	1	ls	2,000.00	2,000		
441	System testing and flushing	1	ls	300.00	300		
442	Coring, cutting, sleeves & sealing	1	ls	500.00	500		
443	Hydraulic lifts/rigging	1	ls	1,000.00	1,000		
444	Shop drawings / BIM / ENG Support / As-Builts	1	ls	2,000.00	2,000		
445	Commissioning Support	1	ls	800.00	800		
446	Fees & permits	1	ls	500	500		
447	SUBTOTAL					33,800	
448							
449	TOTAL - HVAC						\$33,800
450							
451							
452	26 - ELECTRICAL						
453							
454	<u>Site Electrical</u>						
455	<u>Power</u>						
456	200A feeders (Overhead) ETR per narrative					ETR	
457	<u>Communications</u>						
458	Overhead cabling					ETR	
459	<u>Site Lighting</u>						
460	Site Lighting and circuitry/grounding					ETR	
461	<u>Site Security</u>						
462	Pole mounted cameras and circuitry (on building)					ETR	
463	SUBTOTAL						-
464							
465	<u>Gear & Distribution</u>						
466	<u>Normal Power</u>						
467	Add 100A circuit breaker and make connections at existing 200A	1	ls	5,000.00	5,000		
468	100A panelboard	1	ea	2,500.00	2,500		
469	100A feed	60	lf	38.00	2,280		
470	<u>Emergency Power</u>						
471	Emergency Power (ETR per narrative)					ETR	
472	<u>Equipment Wiring</u>						
473	Misc. equipment feeds and connections	6,938	sf	2.50	17,345		
474	WH feed and connection	1	ea	1,000.00	1,000		
475	OUP pump feed and connection	1	ea	1,500.00	1,500		
476	Circ pump feed and connection	1	ea	1,500.00	1,500		
477	EUH feed and connection	1	ea	1,000.00	1,000		
478	Over head doors feed and connection	7	ea	2,500.00	17,500		
479	SUBTOTAL						49,625
480							
481	D5020 LIGHTING & POWER						
482	<u>Lighting & Branch Power</u>						
483	Bay lights and installation (8' Strip)	18	ea	550.00	9,900		
484	2x4 troffer	12	ea	300.00	3,600		
485	Exit	4	ea	300.00	1,200		
486	<u>Lighting control system</u>						
487	Lighting controls including daylight harvesting system, allow	6,938	sf	2.50	17,345		

All Electrical by Baypath,
confirm



SD Progress Set Estimate

GFA

6,938

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
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DPW BUILDING

488	<u>Lighting circuitry</u>						
489	Lighting & branch circuitry	6,938	sf	4.00	27,752		
490	<u>Branch devices</u>						
491	Branch devices	6,938	sf	0.50	3,469		
492	<u>Branch circuitry</u>						
493	Branch circuitry	6,938	sf	4.00	27,752		
494	SUBTOTAL					91,018	

D5030 COMMUNICATION & SECURITY SYSTEMS

497	<u>Fire Alarm</u>						
498	Fire Alarm System (ETR per narrative)					ETR	
499	<u>Bi-Directional System</u>						ETR
500	BDA system (ETR)						
501	<u>Security System</u>						
502	Security System (ETR per narrative)					ETR	
503	<u>Telephone/Data/CATV</u>						
504	Telephone/Data/CATV (ETR per narrative)					ETR	
505	<u>Public Address/Clock System</u>						
506	PA system (ETR per narrative)					ETR	
507	<u>Antenna System/Satellite Dish</u>						
508	Rough-in only, conduit and cable tray					ETR	
509	<u>Radio/Dispatch Room</u>						
510	Equipment provided by others					ETR	
511	Rough-in					ETR	
512	SUBTOTAL						-

D5040 OTHER ELECTRICAL SYSTEMS

515	<u>Miscellaneous</u>						
516	Lightning Protection					NIC	
517	Temp power and lights	1	ls	8,500.00	8,500		
518	Coordination, BIM	1	ls	4,200.00	4,200		
519	Fees & Permits	1	ls	2,000.00	2,000		
520	SUBTOTAL						14,700

TOTAL - ELECTRICAL						\$ 155,343
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31 - EARTHWORK

312000 EARTHWORK

528	<u>Fuel Tank Canopy Excavation</u>						
529	Excavate for strip footings	76	cy	25.00	1,900		
530	Excavate for SOG	25	cy	25.00	625		
531	Store on site/spread on site	101	cy	15.00	1,515		
532	Back fill with excavated materials	85	cy	25.00	2,125		
533	Gravel base fill below slab	14	cy	75.00	1,050		
534	Interior excavation at haunch footings, remove and back fill by hand	1	ea	5,000.00	5,000		
535	SUBTOTAL						12,215

TOTAL - EARTHWORK						\$12,215
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All earthwork by DPW



SD Progress Set Estimate

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
ALTERNATES							
1	Apparatus Bay: EFIS in lieu of spray foam insulation						
	DDT Spray foam insulation	4,088	sf	(6.00)	(24,528)		
	Add EFIS System allowance	4,088	sf	60.00	245,280		
	Mark up and indirect cost	31%		220,752.00	68,433		
	SUBTOTAL						289,185
2	Apparatus Bay: Replace windows in apparatus bay						
	Remove existing windows	266	sf	8.00	2,128		
	New storefront	266	sf	150.00	39,900		
	AVB at window/storefront/doors openings	160	elf	6.50	1,040		
	Backer rod & double sealant at opes	160	lf	10.00	1,600		
	rough blocking	160	lf	10.00	1,600		
	Mark up and indirect cost	31%		3,200.00	992		
	SUBTOTAL						47,260
3	DPW Building: Stud and batt insulation at exterior walls in lieu of spray foam						
	DDT Spray foam insulation	3,481	sf	(6.00)	(20,886)		
	Add Batt Insulation	3,481	sf	3.00	10,443		
	Add Stud to existing stud wall	3,481	sf	18.00	62,658		
	Mark up and indirect cost	31%		52,215.00	16,187		
	SUBTOTAL						68,402
TOTAL - ALTERNATES							\$404,847