





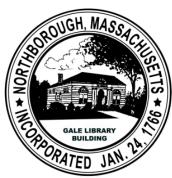




STATUS UPDATE

- Project History
- Design Development to Date
- Costs













NEW FIRE STATION PROJECT - TIMELINE - 2012 - 2021

• 2012 Annual Town Report

 Fire Station project placeholder in the FY2013/2014 Capital Improvement Plan to complete a limited Feasibility Study using \$75,000 in capital funds

10/27/2017

First Fire Station Feasibility Committee meeting

11/29/2018

Location at 61-65 West Main Street selected

• 04/22/2019

 Town meeting approved \$3,500,000 to purchase 10 Monroe + 61-65 West Main, Hire an owner's project manager + for design fees

• 05/25/2019 (Approximate)

Negotiations begin with owner of 61-65 West Main St.

12/16/2020 - 04/30/2021

• Purchase + Sale extended 5-times

09/20/2022

- Purchase + Sales for 61-65 West Main Executed
- ... 3.41 Years (1,274 Days) after Town meeting approval

11/10/2022

Purchase + Sales 10 Monroe Executed

03/20/2023

• First Fire Station Building Committee (FSBC) meeting held

05/20/2023

- Architect Selected
- ... 4.08 years (1,489 days) after Town meeting approval









NEW FIRE STATION PROJECT - TIMELINE - 2023 TO PRESENT

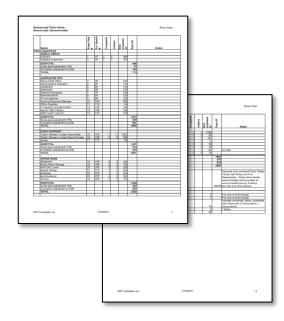
09/15/2023 - 02/28/2024

- Program Development
 - Discussions with Fire Department Leadership
 - Survey of department personnel
 - Space needs determined
- Schematic Design Phase
 - FSBC meetings
 - Joint Mtg with DRC & MPIC
 - Community Information sessions
 - Design Review Committee meetings

02/29/2024 - 05/29/2024

- FSBC meetings
- Design Review Committee meetings
- ZBA meeting
- ConCom Meeting
- Planning Board meetings















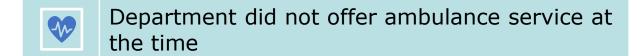
CURRENT FIRE STATION AT 11 PIERCE STREET - HISTORY



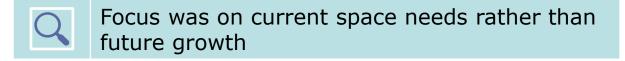
Built in 1974 / Occupied in 1975



Designed for two full-time firefighters only working day shifts



Limited sleeping facilities were incorporated



1	1	1973	Maxim Pumper Engine
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2	2	1958	Ford	Pumper	Engine
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	3	1	1965	Ford Pumpe	r Engine
--	---	---	------	------------	----------

4		1973	International	Engine
---	--	------	---------------	--------

5	1	1949	Ford	Water	Tanker
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6	(3)	1969	GMC Rescue	Truck
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7 🄥 1964 Pick-up Truck







CURRENT FIRE STATION AT 11 PIERCE STREET - CURRENT APPARATUS IN SERVICE

1 Lengine 1 Pumper – 2 nd Due	10
2 Engine 2 Pumper – 1st Due	11 Car 1 Ford SUV Explorer
3 Engine 3 Water Tanker / Pumper	12 Car 2 Chevy SUV Tahoe
4 Rescue 1 Heavy Rescue / Pumper	13 Car 3 Chevy Pick-Up
5 Tower 1 Aerial / Pumper	14 Gator 1 John Deere ATV / UTV
6 Medic 1 Ram Ambulance	15 Boat 1 Rescue Boat W/Trailer/Motor
7 Medic 2 International Ambulance	16 All Hazards Trailer 20' x 7'
8 Medic 3 International Ambulance	17 Hazardous Materials Trailer 15' x 6'
9 Forestry 1 Off Road Brush Pumper	18 Open Space Protection Trailer 21' x 8'









CURRENT APPARATUS IN SERVICE









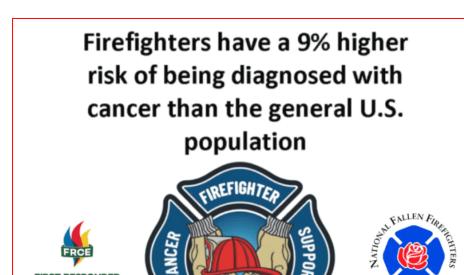






CLEAN FIRE STATION CONCEPT - 5 STEPS TO SAFE + HEALTHY DESIGN

- 1. Read and learn about cancer-causing carcinogens in fire stations.
- 2. Examine decontamination procedures for personnel returning from incidents.
- 3. Consider healthy 'green' elements in the station.
- 4. Review the Hot Zone design plan and apply it to existing zones in your station.
- 5. Focus on the physical and mental health of personnel.



Firefighters have a 14% higher risk of dying from cancer than the general U.S. population.

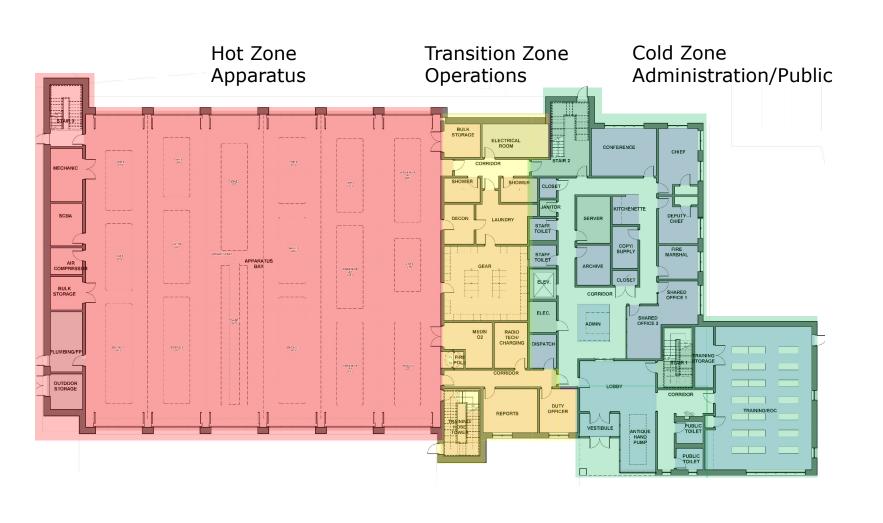
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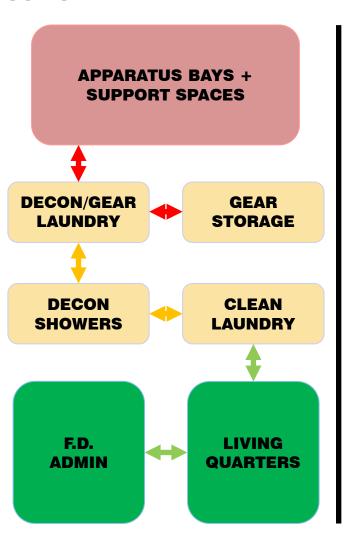






CLEAN FIRE STATION CONCEPT - FIRST LEVEL PLANNING TO SUPPORT CONCEPT













NEW FIRE STATION PROJECT - COMPARISON OF 2019 vs 2024

2019

- Feasibility Study
 - Limited research + details
- Professional site survey not part of scope
- Did not include an Elevator
- Undersized
 - Apparatus Bay
 - Building Support Spaces
- No accounting for Future Growth
- Prior to current MA Energy Code

2024

- Programming + Design
 - Detailed research + details
 - Layout to meet Clean Building Concept
- Professional site survey completed
- Elevator added
- Right Sized
 - Apparatus Bay: Apparatus measured, layout planned + spacing considered
 - Building Support Spaces
- Designed for 40 years of Growth
- Incorporates significant requirements of the new MA Energy Code









NEW FIRE STATION PROJECT - COMPARISON OF 2019 vs 2024

- 2019 @ 26,420 GSF vs 2024 @ 30,850 GSF
- Accounting for the difference of 4,430 gsf. What items have been identified or adjusted through detailed programming + analysis
 - Increased apparatus bay sizes to meet vehicle layout + egress code
 - Layout of apparatus support spaces to meet Clean Station Design Concept
 - Increased building support spaces to meet requirements of this building design including an elevator
 - Accounting for future growth
 - Incorporation of MA Energy Code requirements
 - Increased site costs
 - Additional parking spaces to meet program
 - Set back from the street to create adequate turning radius for trucks on apparatus apron
 - Retaining wall required based on actual survey



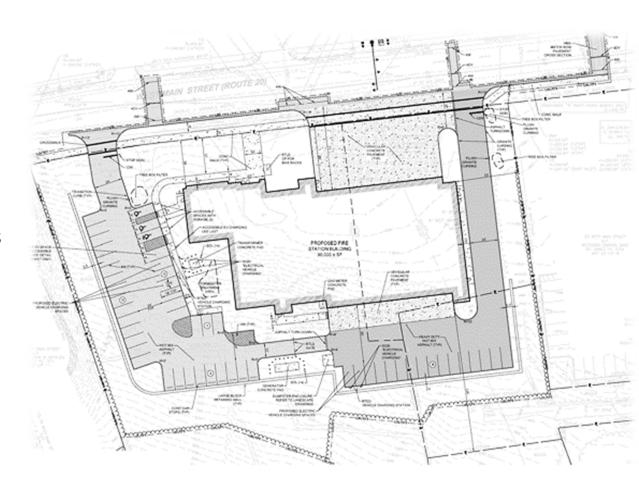






NEW FIRE STATION - SITE DESIGN

- Separate parking to promote safety for public parking + movement of vehicles
 - Firefighter parking located at rear of building
 - Guest parking separated from operations
- Building placement to provide clearest sight-lines for apparatus + ease of movement for vehicles
- EV charging stations Code mandated infrastructure for 11 – provide 6 at this time
- Heated apparatus aprons extends 10' from the building to encourage snow melt which assists with response + snow removal
- Plantings + Site elements chosen to enhance site











NEW FIRE STATION PROJECT - INTERIOR BUILDING LAYOUT - FIRST LEVEL

- 21,500 gsf
- Clean Station Concept
- Four Distinct Areas
 - Operations
 - Administration
 - Emergency Operations Center (EOC)/Training/Public Access
 - Building Support











NEW FIRE STATION PROJECT - INTERIOR BUILDING LAYOUT - SECOND LEVEL

- 9,350 gsf
- Rooms
 - Dorm Rooms (7)
 - Day-Room/Kitchen
 - Fitness Room
 - Individual Toilet Rooms (2)
 - Individual Bathrooms (3)
- Features
 - Solar Ready Roofs
 - Terraces (2)
 - Hose Tower + Training Tower
 - Fire Pole











NEW FIRE STATION PROJECT – MAIN ELEVATION AT SCHEMATIC DESIGN



• Traditional New England Approach

North Elevation from West Main Street

- Red brick compliments other Town buildings
- Durable materials selected to minimize maintenance concerns
- Arches located at apparatus bays and at entry
- Training/hose tower includes clock









NEW FIRE STATION PROJECT - MAIN ELEVATION AT SCHEMATIC DESIGN



Northeast Elevation from West Main Street









NEW FIRE STATION PROJECT – MAIN ELEVATION AT SCHEMATIC DESIGN



Northwest Elevation from West Main Street







NEW FIRE STATION PROJECT - REAR ELEVATION AT SCHEMATIC DESIGN



South Elevation







NEW FIRE STATION PROJECT - CONSIDERATIONS

Location

- Fire station locations are dictated by response time requirements set by the National Fire Protection Association (NFPA). This site meets those requirements.
- Building anywhere outside of downtown will require *building two fire stations, *hiring at least 12 additional firefighters, *purchasing 1 Fire Engine & *replacing/purchasing 1 ambulance

Municipal Projects

- Public funded construction projects regulations include
 - MGL c.30B (procurement), MGL c.149, §27 (prevailing wage), MGL c.149, §44A & B(bidding)
- Labor must be at Prevailing Wage rates
- All materials + services must be awarded through an open bid process
- Contracts must be awarded to the lowest responsible bidder
- Proprietary products cannot be chosen, basis of design elements, as detailed + specified, must be bid by contractors









NEW FIRE STATION PROJECT - CONSIDERATIONS

Bid Pricing

- Bid prices are based on the estimated costs in July 2025
- Total Project Costs include contingencies for unforeseen conditions. Total Project Costs should not increase.

Cost Estimate Deadline

- The current cost estimates for the project are based on bidding in September/October 2024
- Delaying bidding beyond this date will incur cost increases
- Cost escalation beyond 2024 could result in a 7% 10% increase in project costs

Alternatives

- If not passed at the 2024 Special Town Meeting, it is the intent of the FSBC to repropose the same design at the 2025 Annual Town Meeting
- This could result in a minimum 7% 10% increase in the total project cost, for the same building proposed now







NEW FIRE STATION PROJECT – UNDERSTANDING COST FACTORS

- Hard Construction Costs Building + Site
 - Estimating Package consisted of Schematic Design Documents
 - Statement of Probable Costs included design + pricing contingencies of 10% to allow for the unknowns
 - Included 14 Alternate Options + 1 Allowance Order of Magnitude Alternate
- Soft Costs Other Project Costs outside the Scope of the General Contractor
 - Furnishings, Fixtures + Equipment:
 - Loose Furnishings, Program Related Equipment, Date/Telecom Equipment, AV Equipment Security, Other Specialty Items
 - Fees + Expenses
 - Designer + OPM Fees, Commissioning, Legal, Utility Assessment, Materials Testing Fees During Construction
 - Contingencies
 - Construction + Owner's Project









NEW FIRE STATION PROJECT - COMPARISON OF 2019 vs 2024

2019 Estimated Costs

• Hard Costs: \$14.4 Million

• Soft Costs: \$4.4 Million

• 2024 Estimated Costs

• Hard Costs: \$31.7 Million

• Soft Costs: \$10.8 Million

Why + How: What other factors impacted cost differences

- Escalation per year that was not standard
- New Energy Code Regulations
- Prevailing wage increases
- Manufacturing delays + Supply Chain interruptions
- A refined program translated into increased square footage
- Site costs: parking + retaining wall







NEW FIRE STATION PROJECT - COMPARISON OF 2019 vs 2024 - BUILDING 2019 DESIGN TODAY

Constr	uctio	on Cost Esc	calation									
Year	4/24	4/19 Estimate	Escalation %							Escalated cost w/ current SF		2024 Construction Estimate
	1	26420 sf			,	\$/sf				30,850 sf		
2019	\$	15,417,787		=	\$	584	Х	30850 SF	=	\$ 18,002,980		
2020	\$	16,651,210	8%	=	\$	630	Χ	30850 SF	=	\$ 19,443,218		
2021	\$	19,148,891	15%	=	\$	725	Χ	30850 SF	=	\$ 22,359,701		
2022	\$	21,446,758	12%	=	\$	812	Χ	30850 SF	=	\$ 25,042,865		
2023	\$	23,591,434	10%	=	\$	893	Χ	30850 SF	=	\$ 27,547,152		
2024	\$	25,478,749	8%	=	\$	964	Х	30850 SF	=	\$ 29,750,924	vs	\$ 30,900,450
		Α	Û							В		

A = Size as Proposed

B = Includes Clean Station Design, Elevator, Energy Code requirements, Apparatus Bay size, Growth







NEW FIRE STATION PROJECT - TOTAL PROJECT COST ESTIMATES BASED ON SCHEMATIC DESIGN

ESTIMATED TOTAL PROJECT COSTS PRESENTED								
DATE	HIGH	LOW						
2/1/2024	\$49,906,000	\$42,969,700						
3/27/2024	\$45,229,600	\$39,749,400						
4/15/2024	\$45,697,200	\$42,895,300						
₹	ESTIMATED RETURN COSTS	₹.5						
ITEM	HIGH	LOW						
Possible Geothermal Rebates	(\$1,958,564)	(\$1,958,564)						
ESTIMATED TOTAL PROJECT COSTS AS OF APRIL 2024								
ITEM	HIGH	LOW						
With Rebates applied	\$43,738,636	\$40,936,736						









NEW FIRE STATION PROJECT – IMPORTANT FUTURE DATES

• September 24, 2024

• Deadline for Select Board to place project on the Ballot

No later then October 14, 2024

Special Town Meeting – Scheduled for October 7, 2024

Debt Exclusion Vote

• Scheduled for November 5, 2024

• Early 2025

• Groundbreaking + Construction begins















• Best Source for Information + Progress Updates

• www.NBFireStation.org

