Town of Exeter, NH

Public Safety Complex Police & Fire Departments Continental & Court Street

Conceptual design

Date:

September 2, 2022

Prepared for: Town of Exeter, New Hampshire

LBA Consultants: VHB; Bedford NH Jobin Construction Consultants, LLC



<u>The Town of Exeter Police Department and Fire Substation – New Construction Option</u>

6 Continental Drive Exeter, New Hampshire Date: September 2, 2022



The Town of Exeter Police Department and Fire Substation – New Construction Option

6 Continental Drive Exeter, New Hampshire Date: September 2, 2022

Executive summary

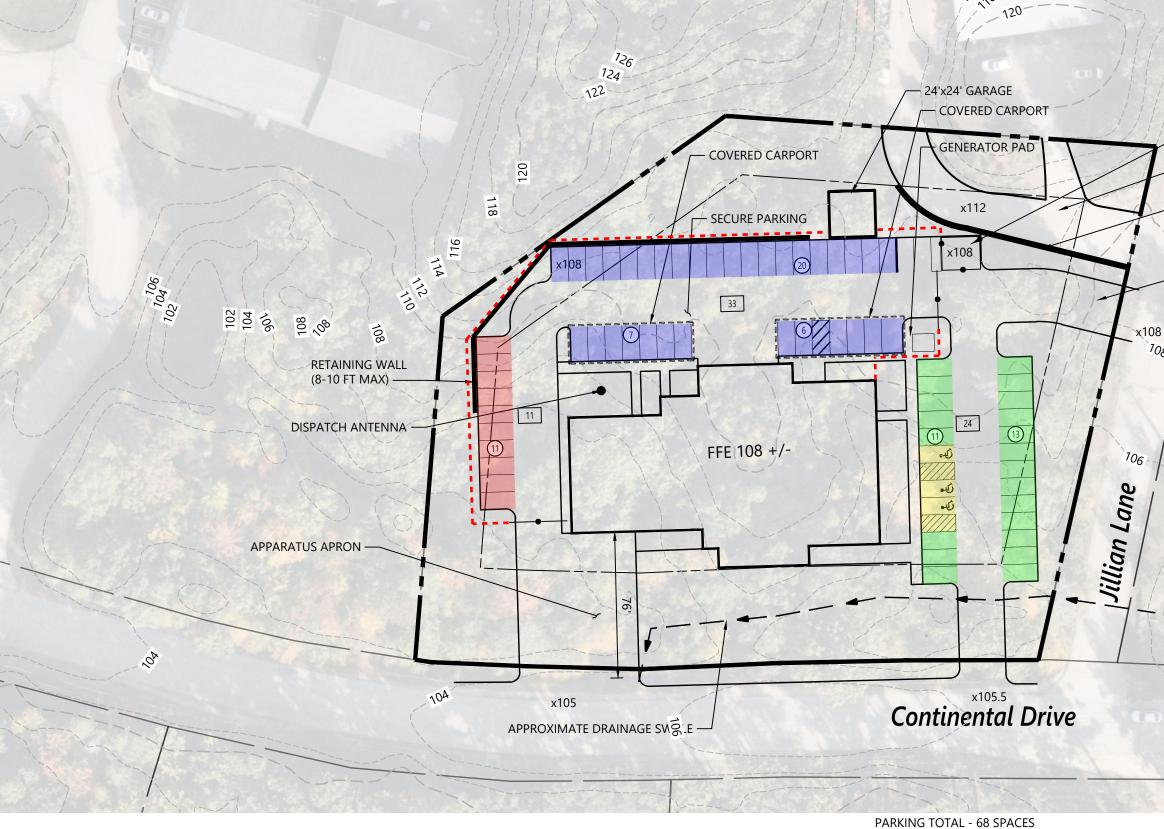
The proposed new Exeter Police Department and Fire substation is located on the corner of Continental Drive and Jillian Lane. The site is relatively flat in the front and slopes up toward the back of the property requiring retaining walls to accommodate the PD and FD secure parking, auto impound, a 2-bay detached garage, and a trash enclosure. A 60' apparatus apron will be provided from the FD substation with direct access to Continental Drive. The proposed two-story building is approximately 23,165 gross square feet (16,285 GSF for the Police Department and 6,880 GSF for the Fire Substation). Visitors will enter the building from the east side of the property under a covered entry entering a two-story vestibule/lobby which will allow natural light into the building. A large Community Room is accessed from the Main Lobby allowing flexible day or nighttime use directly from the public lobby. The police officers and staff, and fire crew will enter the building from the rear allowing direct access to their secure departments.

The exterior of the building will be constructed with brick veneer, decorative concrete masonry units (cmu), maintenance-free clapboard siding, asphalt roofing shingles, and high-efficient exterior doors and windows. Some additional key features to the building are listed below:

- A two-stall sally port with a secure entry from the rear of the PD building.
- Secure parking for PD vehicles, PD staff, and FD staff.
- An open-air covered deck located at the rear of the PD second floor provides a quiet place for PD staff to take a break and as a decompression area.
- A two-bay apparatus floor will accommodate a large fire truck, EMS ambulance, work truck and associated FD storage.
- The Firehouse provides decontamination spaces and healthy firefighter living and work areas.

Sustainability initiatives

- 1. The proposed building will meet &/or exceed the current NH energy code.
- 2. The building will be designed with all electrical equipment which will be Net Zero or Passive House ready in the future for solar panels.
- 3. Sustainable materials, Low flow fixtures and LED lights will be used throughout the project.

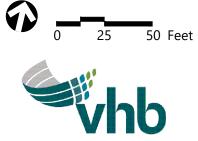


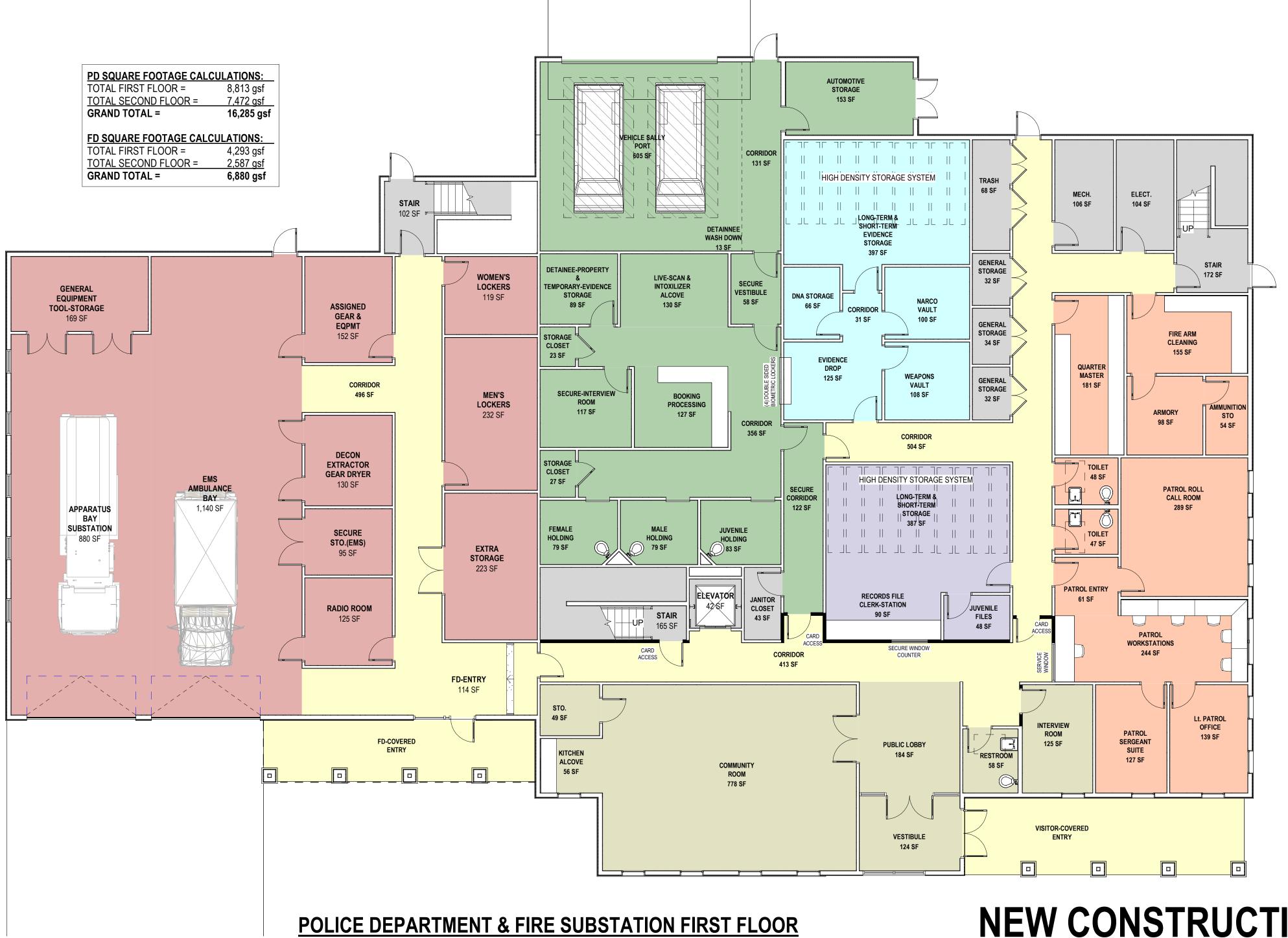
Police Department & Fire Substation

Conceptual Layout 6 Continental Drive, Exeter, NH

Source: VHB Prepared for: Review Date: September 2, 2022 FIRE DEPARTMENT STAFF PROVIDED - 11 SPACES POLICE DEPARTMENT STAFF PROVIDED - 33 SPACES PUBLIC PROVIDED - 24 SPACES ACCESSIBLE PROVIDED - 3 SPACES

TRASH ENCLOSURE EXISTING DRIVEWAY TO REMAIN **RETAINING WALL (4FT MAX)** 110 CURB CUT MAY **REQUIRE ACCESS** EASEMENT 108





TOWN OF EXETER

POLICE DEPARTMENT & FIRE SUBSTATION - CONTINENTAL DRIVE

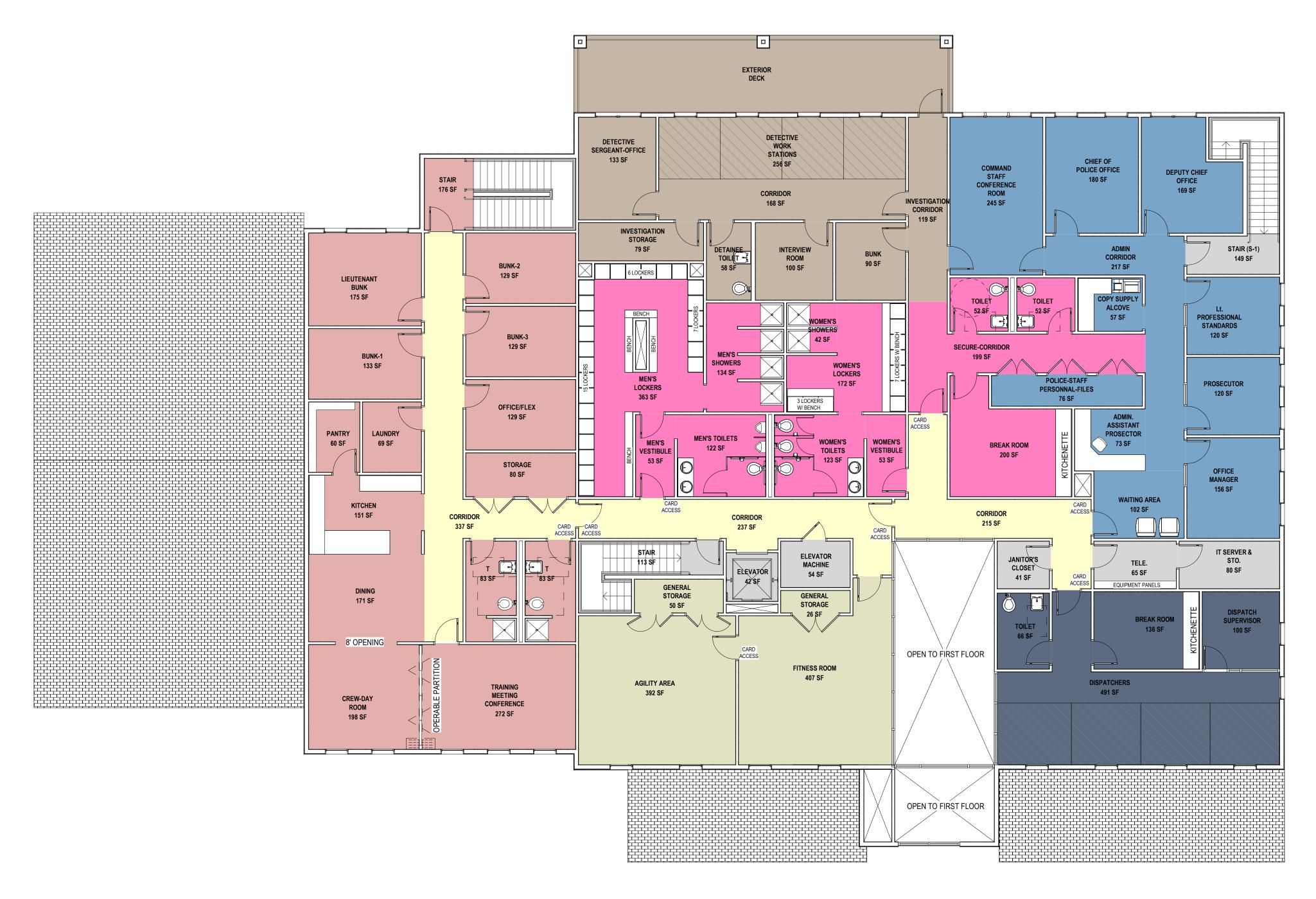
NEW CONSTRUCTION

SCALE: 1/8" = 1'-0"

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LAVALLEE BRENSINGER ARCHITECTS

September 2, 2022



POLICE DEPARTMENT & FIRE SUBSTATION SECOND FLOOR

TOWN OF EXETER

POLICE DEPARTMENT & FIRE SUBSTATION - CONTINENTAL DRIVE

NEW CONSTRUCTION

SCALE: 1/8" = 1'-0"

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SECOND FLOOR PLAN

September 2, 2022 LAVALLEE BRENSINGER ARCHITECTS



1 PRES-0.1B



FRONT MASSING MODEL - 2 2 PRES-0.1B

POLICE DEPARTMENT & FIRE SUBSTATION - OPTION 1B

POLICE DEPARTMENT & FIRE SUBSTATION - CONTINENTAL DRIVE

TOWN OF EXETER

NEW CONSTRUCTION

SCALE:

EXTERIOR MASSING

 \bigcirc LAVALLEE BRENSINGER ARCHITECTS

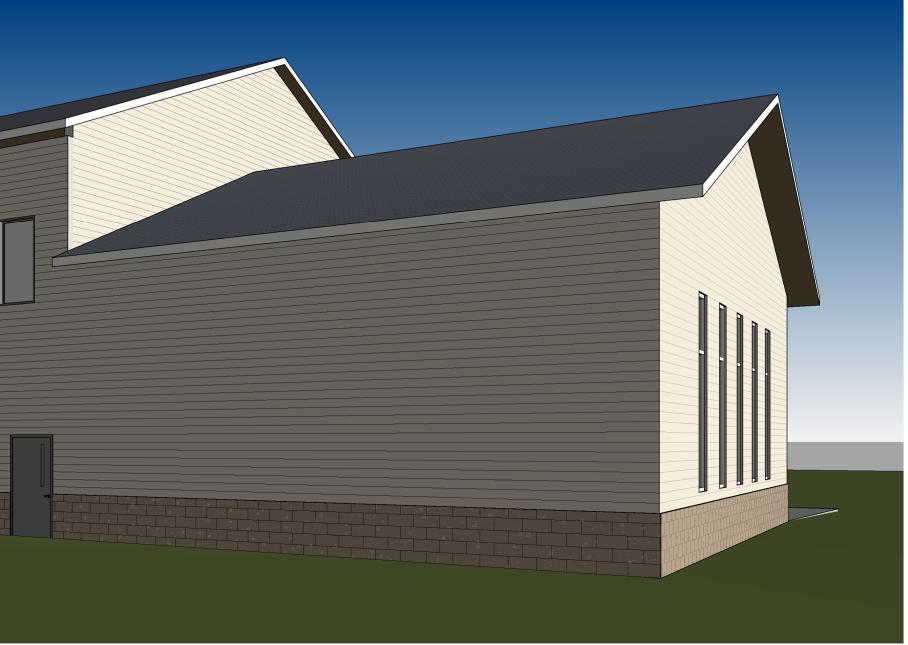
September 2, 2022

REAR MASSING MODEL - 1 1 PRES-0.1D



TOWN OF EXETER

POLICE DEPARTMENT & FIRE SUBSTATION - CONTINENTAL DRIVE



NEW CONSTRUCTION

SCALE:

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LAVALLEE BRENSINGER ARCHITECTS

September 2, 2022

EXTERIOR MASSING

TOWN OF EXETER, NH - PUBLIC SAFETY BUILDING STUDY CONCEPTUAL BUDGET

September 2, 2022

6 CONTINENTAL DRIVE - NEW POLICE & FIRE	SUBSTATION - 2 STORIES		LOW		HIGH	
Site Development		\$	1,200,000		\$ 1,300,000	
Police Station - 16,285 s.f.	\$ 325-350 psf	\$	5,292,625		\$ 5,699,750	
Fire Station - 6,880 s.f.	\$ 325-350 psf	\$	2,236,000		\$ 2,408,000	
Design and Construction Contingency - 10%		\$	872,863		\$ 940,775	
Contractor General Conditions		\$	660,000		\$ 660,000	
Construction Management Fee - 5%		\$	513,074		\$ 550,426	
	Subtotal Construction Cost	s: \$	10,774,562	\$ 465/sf	\$ 11,558,951	\$ 499/sf
Project Soft Costs - 20% of Construction Costs		\$	2,154,912		\$ 2,311,790	
Architectural/engineering fees						
Geotechnical engineering						
Planning and permitting fees						
Builders' risk insurance						
Owner representative/clerk of the works						
Utility connection fees						
Backup generator						
Exterior signage						
Furniture, fixtures, equipment						
Gear storage, extractors, laundry equipment						
Security and IT equipment						
6 Continental Drive - Cond	ceptual Level Project Costs in 202	2: \$	12,929,474	\$ 558/sf	\$ 13,870,742	\$ 599/sf
Project Cost	Associated with the Police Statio	n \$	9,050,632		\$ 9,709,519	
Project Cost /	Associated with the Fire Substation	on \$	3,878,842		\$ 4,161,222	
6 Continental Drive - Anticipated Concept	tual Level Project Costs in Q1 202	4: \$	14,868,895	\$ 642/sf	\$ 15,951,353	\$ 689/sf

This budget assumes mid-level construction materials including; masonry veneer, metal stud framing, with a structural steel superstructure and standard foundation systems, pending further geotechnical investigation.

ALTERNATES:

Added cost for covered parking structure of 13 spaces\$ 375,000Implementation of a Net Zero approach will add approximately 3-4% to this budget

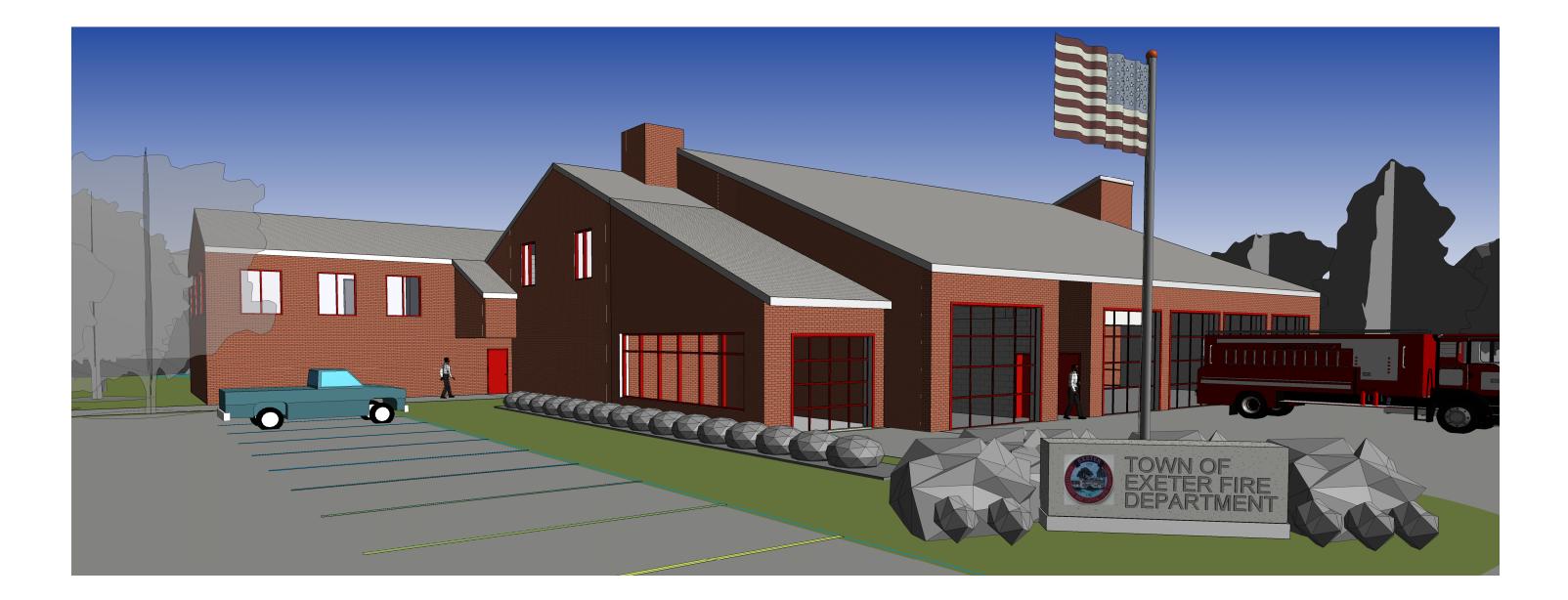
Costs not included:

Land acquisition costs are not included in this budget

Any temporary accommodations, relocations, and facility rental costs during construction are not included in this budget New or relocated communications equipment; including radio antenna, dispatch consoles, and radio systems

<u>The Town of Exeter Fire Department – Renovation Option</u>

20 Court Street Exeter, New Hampshire Date: September 2, 2022



<u>The Town of Exeter Fire Department – Renovation Option</u>

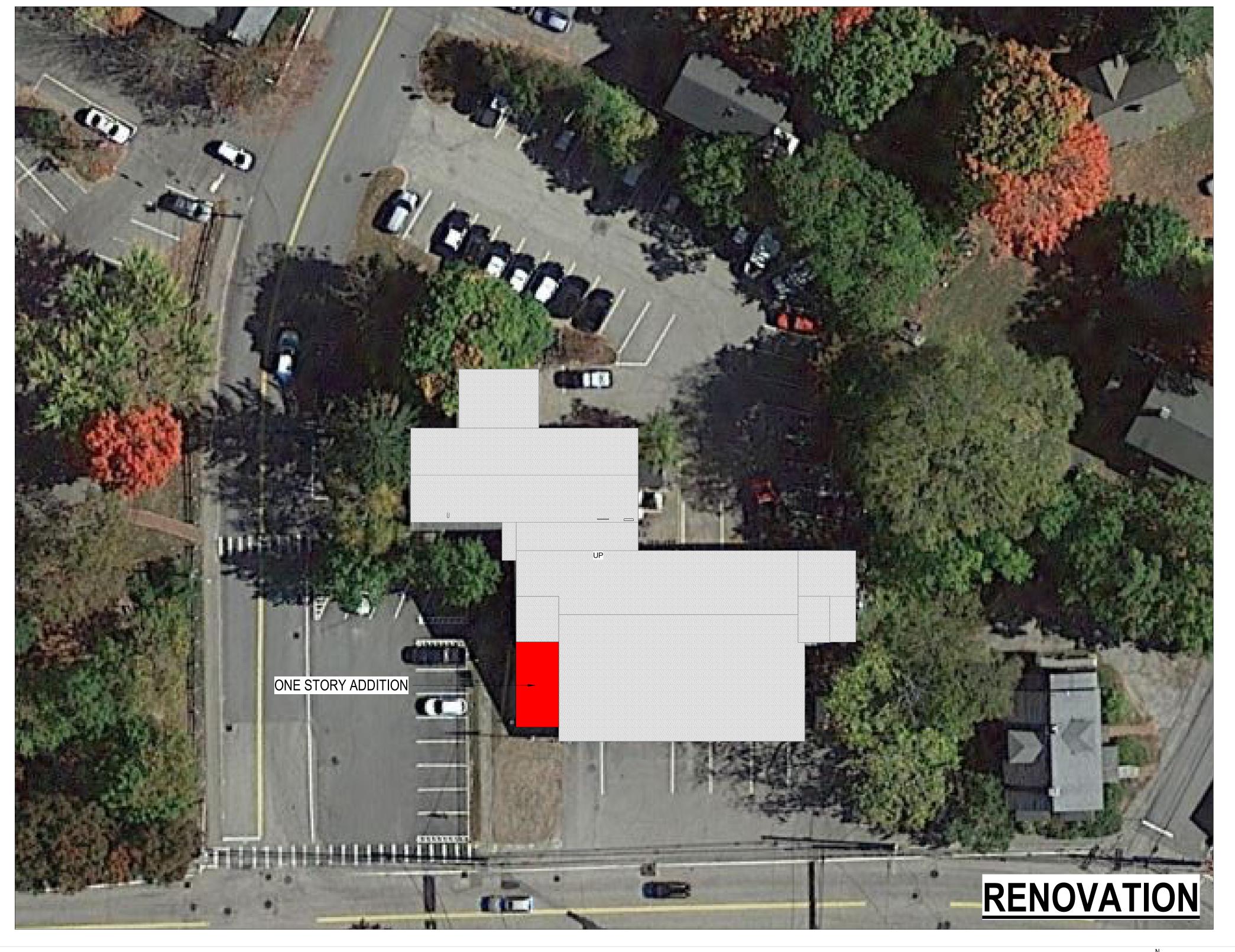
20 Court Street Exeter, New Hampshire Date: September 2, 2022

Executive summary

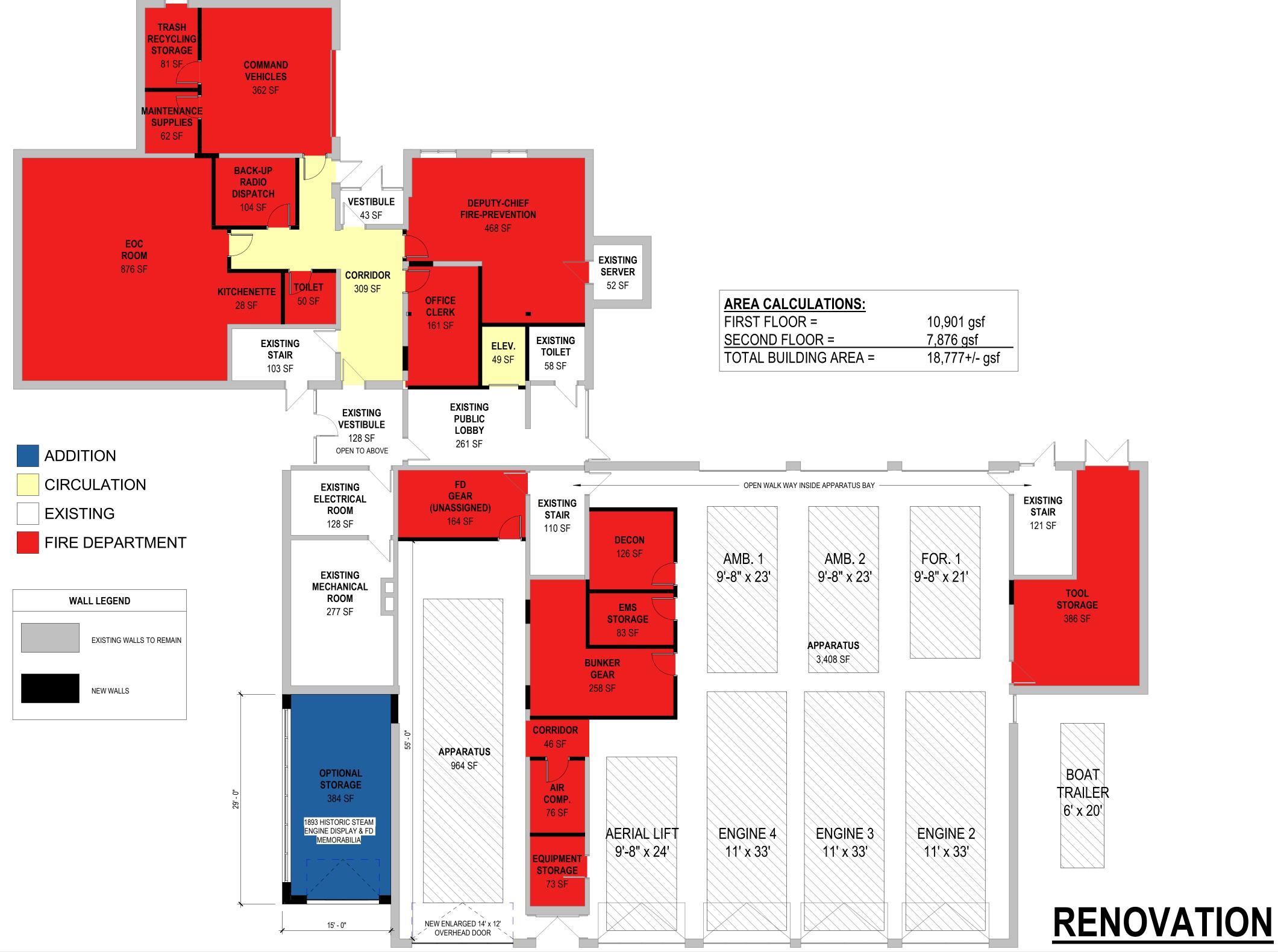
At some point after the PD and FD Substation functions have relocated to 6 Continental Drive, the Fire Department will expand the department's space use to incorporate the entire approximately 18,777 gross square foot existing two-story building. The existing non-loading bearing interior walls on the first & second floor will be adjusted as required to accommodate the long-term space needs of the Fire Department. A new Emergency Operations Center (EOC) and Fire Prevention Office will be provided on the first floor of the building and will be designed to be fully accessible. The existing apparatus bays will receive minor improvements including a fresh coat of paint throughout and wider apparatus bay door opening for the large ladder truck to enter and exit the building with adequate clearances. On the second floor, the existing sleeping quarters, kitchen/dining and laundry areas will receive a fresh coat of paint and cosmetic improvements to minimize construction cost – all other areas will receive new flooring, paint, ceilings and lighting.

Added optional features

- 1. Replace mechanical, electrical, plumbing and fire protection (MEP & FP) equipment with electric systems.
- 2. Add one story historic steam engine display adjacent to apparatus bays.
- 3. Replace all exterior doors and windows with energy efficient units.
- 4. Add two-stop ADA elevator
- 5. Upgrade the building's exterior wall envelope to enhance the insulation level of the building.



TOWN OF EXETER EXETER PSB STUDY - 20 COURT STREET



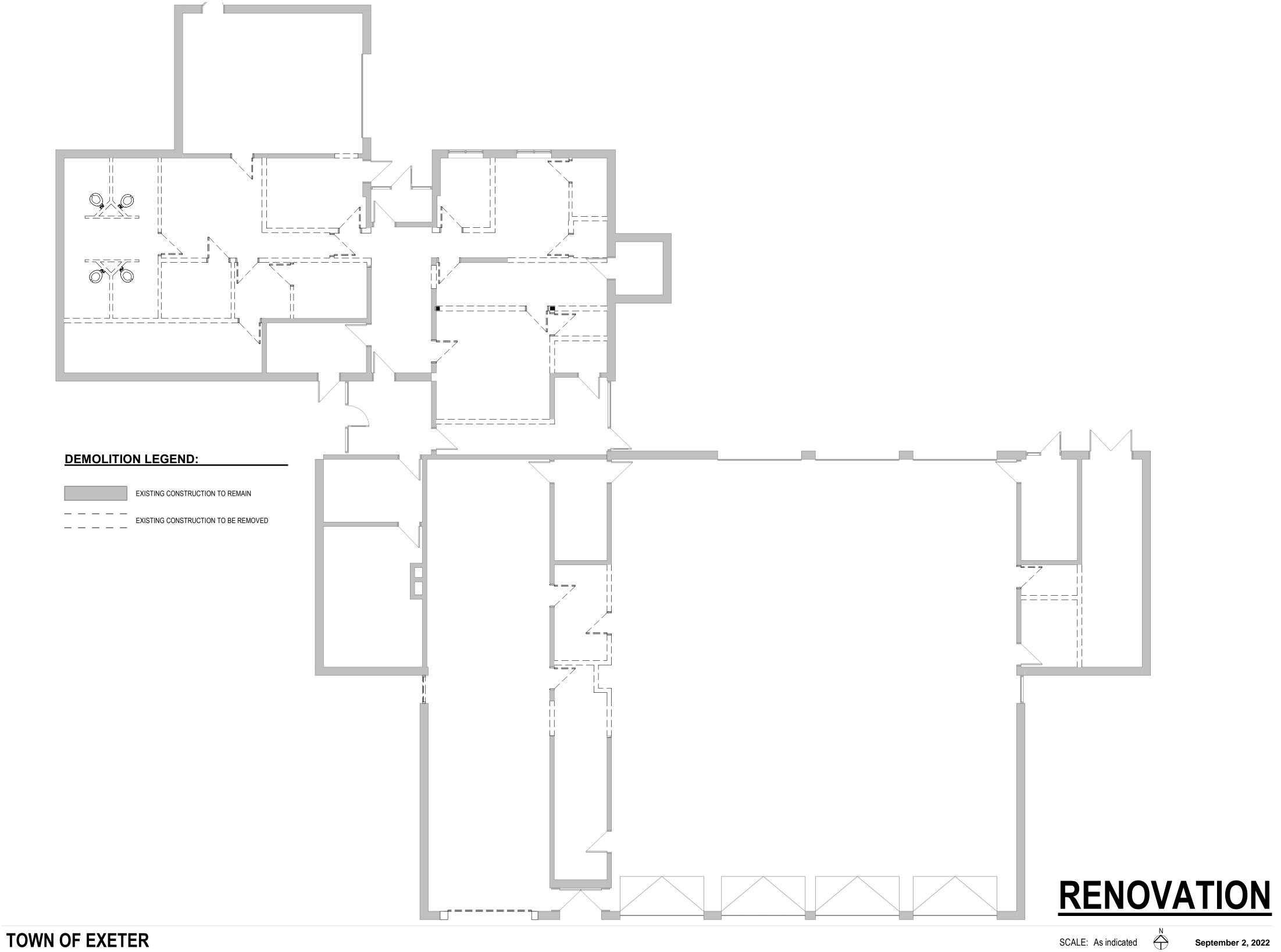
TOWN OF EXETER

EXETER PSB STUDY - 20 COURT STREET

AREA CALCULATIONS:	
FIRST FLOOR =	10,901 gsf
SECOND FLOOR =	7,876 gsf
TOTAL BUILDING AREA =	18,777+/- gsf

RENOVATED FIRST FLOOR PLAN

 \bigcirc SCALE: As indicated September 2, 2022 LAVALLEE BRENSINGER ARCHITECTS



EXETER PSB STUDY - 20 COURT STREET

FIRST FLOOR DEMOLITION PLAN

EXISTING ROOF STRUCTURE BELOW TO REMAIN



TOWN OF EXETER EXETER PSB STUDY - 20 COURT STREET

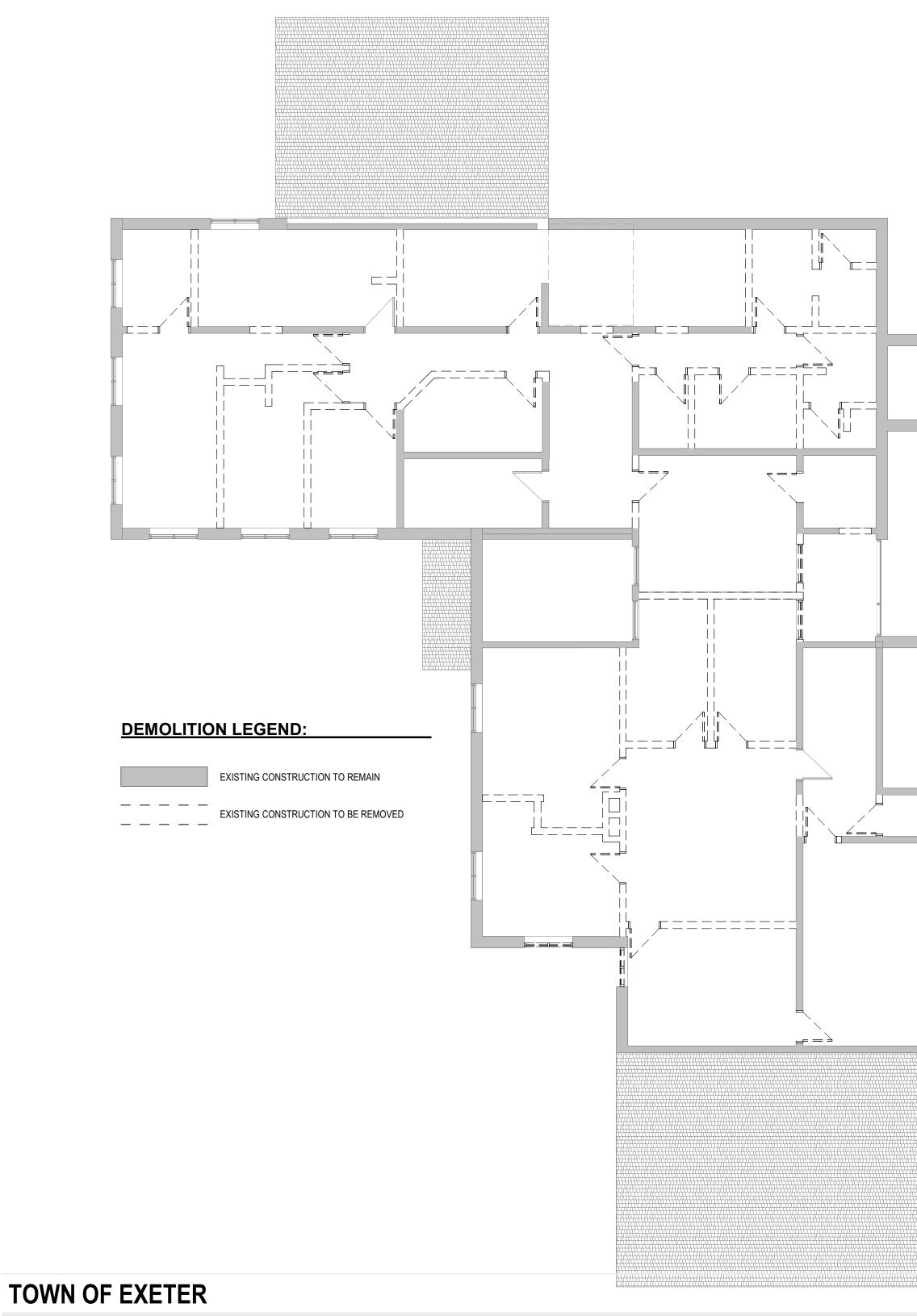
RENOVATED SECOND FLOOR PLAN

RENOVATION

LAVALLEE BRENSINGER ARCHITECTS

September 2, 2022

SCALE: As indicated



EXETER PSB STUDY - 20 COURT STREET

RENOVATION

LAVALLEE BRENSINGER ARCHITECTS

September 2, 2022

SCALE: As indicated

SECOND FLOOR DEMOLITION PLAN

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TOWN OF EXETER, NH - PUBLIC SAFETY BUILDING STUDY CONCEPTUAL BUDGET

Site Development - allowance		\$ 125,000	
App Bay - Minor cosmetic and mechanical			
upgrade 5,635 s.f.	\$ 80/psf	\$ 450,800	
Extensive Renovation to 6,379 s.f. of Existing	\$ 225/psf	\$ 1,435,275	
Cosmetic Renovation to 6,379 s.f. of Existing	\$ 90/psf	\$ 574,110	
Design and Construction Contingency - 10%		\$ 258,519	
Contractor General Conditions		\$ 600,000	
Construction Management Fee - 5%		\$ 172,185	
	Subtotal Construction Costs:	\$ 3,615,889	\$ 193/sf
Project Soft Costs - 10% of Construction Costs		\$ 361,589	
Architectural/engineering fees			
Geotechnical engineering - Assumes none are required			
Planning and permitting fees			
Builders' risk insurance			
Owner representative/clerk of the works			
Backup generator - Assumes re-using existing			
Exterior signage - Assumes re-using existing			
Furniture, fixtures, equipment - Assumes re-using existing	g		
Gear storage, extractors - Assumes re-using existing			
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Laundry Equipment - Assumes re-using existing			

ALTERNATES:

Cost increase for all new MEP/FP for the entire facility	\$ 1,314,390
Some equipment upgrades are included in the base project cost	
Addition for steam engine display	\$ 180,000
Replacement of all windows and exterior doors	\$ 260,000
Add 2 stop elevator with shaft	\$ 380,000
Upgrade existing exterior wall envelope in non-apparatus areas	\$ 370,000

This conceptual level budget is based on 2022 construction costs. Add 9-12% escalation per year beyond 2022 This concept includes minor cosmetic upgrades to the apparatus bay area and widening of 1 overhead door This concept includes 6,379 s.f. of minor cosmetic upgrades and 6,379 s.f. of more extensive renovations This option is based on a 3-phase implementation once the PD is relocated to a new location. This approach will pose challenges to the day to day operations of the FD and will result in a longer construction duration.

Costs not included:

Land acquisition costs are not included in this budget

Any temporary accommodations, relocations, and facility rental costs during construction are not included in this budget New or relocated communications equipment; including radio antenna, dispatch consoles, and radio systems

<u>The Town of Exeter Fire Department – New Construction Option</u>

20 Court Street Exeter, New Hampshire Date: September 2, 2022



The Town of Exeter Fire Department – New Construction Option

20 Court Street Exeter, New Hampshire Date: September 2, 2022

Executive summary

The existing Police & Fire department located on the corner of Court and Bow Street will be demolished to allow for the construction of a new single-story 17,101 GSF Fire Department at some point after the PD and FD Substation have relocated to 6 Continental. The proposed new Fire Department will be constructed with brick veneer, decorative concrete masonry units (cmu), flat rubber roof, asphalt roofing shingles on sloped roofs, and high-efficiency exterior doors and windows. An eight-bay apparatus will be provided to accommodate (1) ladder truck, (3) engine trucks, (2) ambulances, an aerial lift and forest truck that will have direct access to Court & Bow Street. Visitors will park on the South side of the property and enter the building along Bow Street into a public vestibule and lobby. The remaining parking on site will be secure parking for Fire Department staff. An Emergency Operations Center (EOC) will be located directly off the main lobby allowing flexible access day or night, along with an optional 1893 Historic Steam Engine Display area. The EOC is designed to be self-sufficient in case of a major event or emergency and can accommodate other town departments. The Fire administration department will have direct access to the lobby limiting visitors access to the building. The proposed layout also provides separation of clean and contaminated areas of the fire station. The firefighter living and working areas provide clean uncontaminated space with natural daylight.

Sustainability initiatives

- 1. The proposed building will meet &/or exceed the current NH energy code.
- 2. The building will be designed with all electrical equipment and mechanical systems which will be Net Zero or Passive House ready in the future for solar panels.
- 3. Sustainable materials, Low flow fixtures and LED lights will be used throughout the project.

TOWN OF EXETER EXETER FIRE DEPARTMENT - 20 COURT STREET



SITE PLAN - NEW CONSTRUCTION

SCALE: 1/16" = 1'-0" LAVALLEE BRENSINGER ARCHITECTS



September 2, 2022

BUNK-3 BUNK-2 BUNK-1 104 SF 104 SF 104 SF •**•**• EXI 98 SF **CAPTAIN'S** OFFICE 179 SF STORAGE TOILET 77 SF 99 SF **GYM/FITNESS** ROOM 390 SF GROSS SQUARE FOOTAGE CALCULATIONS: C-1 COMMON / SUPPORT SPACES =1,817 gsf.F-1 FIRE ADMINISTRATION =2,581 gsf.F-2 FIRE STATION =9,939 gsf. 1,838 gsf. F-3 FIRE DEPARTMENT SUPPORT 926 gsf. 17,101 gsf. S-1 FACILITY SUPPORT = TOTAL = **KITCHENE**TTE 75 SF

TOWN OF EXETER EXETER FIRE DEPARTMENT - 20 COURT STREET



MAIN LEVEL FLOOR PLAN

SCALE: 1/8" = 1'-0"

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NEW CONSTRUCTION

September 2, 2022

LAVALLEE BRENSINGER ARCHITECTS

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TOWN OF EXETER EXETER FIRE DEPARTMENT - 20 COURT STREET



2 EXTERIOR PERSPECTIVE FROM EXISTING PARKING LOT

EXTERIOR PERSPECTIVES





1 A8.5

EXTERIOR PERSPECTIVE FROM THE CORNER OF BOW & COURT STREET

NEW CONSTRUCTION

3 A8.5 EXTERIOR PERSPECTIVE FROM BOW STREET

SCALE:

 \bigcap^{n} **September 2, 2022** LAVALLEE BRENSINGER ARCHITECTS

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September 2, 2022

TOWN OF EXETER, NH - PUBLIC SAFETY BUILDING STUDY CONCEPTUAL BUDGET

20 COURT STREET - NEW FIRE STATION - 1 STORY E	BUILDING	LOW		HIGH	
Site Development		\$ 925,000		\$ 975,000	
Demolition of Existing Building		\$ 275,000		\$ 325,000	
New 17,101 s.f. Fire Station	\$ 350-370 psf	\$ 5,985,350		\$ 6,327,370	
Design and Construction Contingency - 10%		\$ 718,535		\$ 762,737	
Contractor General Conditions		\$ 740,000		\$ 740,000	
Construction Management Fee - 5%		\$ 432,194		\$ 456,505	
	Subtotal Construction Costs:	\$ 9,076,079	\$ 531/sf	\$ 9,586,612	\$ 561/sf
Project Soft Costs - 20% of Construction Costs		\$ 1,815,216		\$ 1,917,322	
Architectural/engineering fees					
Geotechnical engineering					
Planning and permitting fees					
Builders' risk insurance					
Owner representative/clerk of the works					
Utility connection fees					
Backup generator					
Exterior signage					
Furniture, fixtures, equipment					
Gear storage, extractors, laundry equipment					
Security and IT equipment					
20 Court Street - Co	nceptual Level Project Costs:	\$ 10,891,295	\$ 637/sf	\$ 11,503,935	\$ 673/sf
20 Court Street - Anticipated Conceptual Le	vel Project Costs in Q1 2024:	\$ 12,524,989	\$ 732/sf	\$ 13,229,525	\$ 774/sf

The budget assumes mid-level construction materials including; masonry veneer, metal stud framing, with a structural steel superstructure and standard foundation systems, pending further geotechnical investigation.

ALTERNATES:

Increase apparatus bay from 50' to 55' and EMS from 38' to 40'	\$ 354,288
Provide steam engine display area	\$ 457,500
Increase corridors from 5' to 6'	\$ 197,640
Implementation of a Net Zero approach will add approximately 3-4% to this budget	

Costs not included:

Land acquisition costs are not included in this budget

Any temporary accommodations, relocations, and facility rental costs during construction are not included in this budget New or relocated communications equipment; including radio antenna, dispatch consoles, and radio systems