## Town of Sudbury Permanent Building Committee Meeting



### Sudbury Town Hall Renovation Study

### Agenda

- Assessment of Exterior and Interior Building Components
- Conceptual Schemes:

Town Offices in Town Hall & School Administration in Flynn School Administration in Town Hall & Town Offices stay in Flynn

Cost Estimate & Summary

### Town Properties in this Study



Town Hall



Loring Parsonage



Flynn Building



Fairbank Community Center

### Existing Conditions: Exterior



North Elevation



South Elevation

Floors	1931 Town Hall	1955 Addition	
Basement	1,870	1,400	
First	4,640	1,400	
Second	4,640	0	
Mezzanine	850	0	
Area	12,000	2,700	
Total Area	14,700 gsf		

### Existing Conditions: Exterior



Slate, flashings and snow guards in fair to poor condition



Deteriorating wood soffit



Failing masonry opening at Fire Station doors

### Existing Conditions: Exterior



Missing mortar and loose brick at north chimney



Wood windows on 2<sup>nd</sup> floor in fair condition



Leaking gutters and rain leaders

### Existing Conditions: Interior



Historical Society storage in Auditorium



First floor lobby



Selectmen's Meeting Room



Town Clerk's Office

### Existing Conditions: Structural



The support beam at the Town Clerk ceiling is sagging.



Steel beam in attic supported on brick and cinder block pier.



Plaster cracking at first floor vault wall.



Rafters not tied to masonry walls

Water damage at ceiling on stage level.



Possible asbestos tile in Town Clerk lobby and north and south wing stair halls

### Existing Conditions: Interior



Restrooms at main lobby are not accessible.

### Existing Conditions: Services

#### Recommendations

#### Conveying

Provide new elevator to access all floor levels

#### **Plumbing**

- Provide new plumbing fixtures in new accessible restrooms
- Provide new water pipes because the existing are likely to have lead solder joints

#### **HVAC**

- The existing boiler and steam unit ventilators should be abandoned
- Air conditioning is only in the Town Clerk's office and vaults
- No ventilation system
- Provide new ductless Variant Refrigerant Volume (VRF) and Energy Recovery Ventilation (ERV) system for energy efficient heating, air conditioning, and ventilation.



Plumbing at west entry hall



Air conditioning unit in storage room

### Existing Conditions: Services

#### Recommendations:

#### **Fire Protection**

 Provide new full fire suppression system in the building.

#### Electrical

- Upgrade electrical service and remove electrical panels throughout the building
- Upgrade existing light fixtures and outlets.
- Provide a new exterior generator for emergency power
- Install interior and exterior emergency lighting and exit signs
- Provide a new addressable fire alarm system



Existing fixtures in auditorium

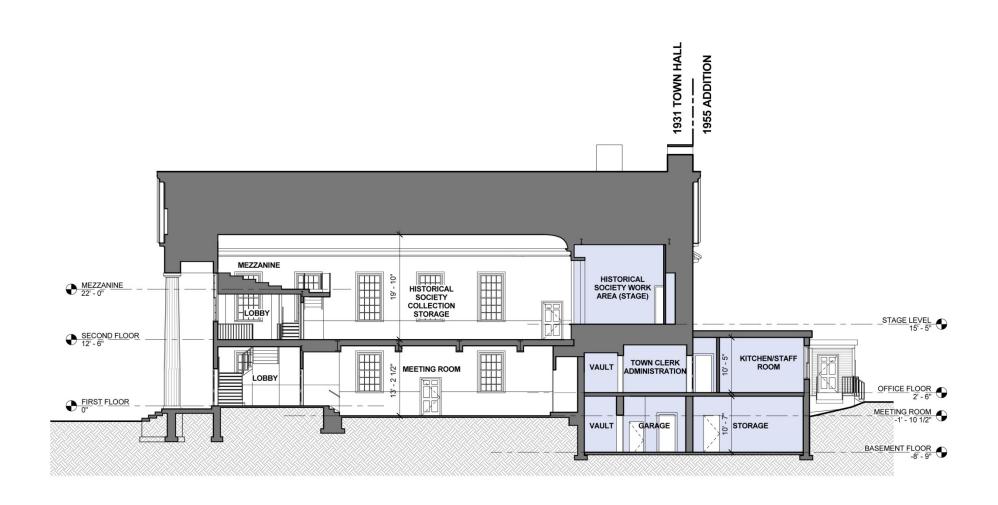


Electrical room in basement



Hanging fixtures in auditorium

### Existing Section



### Conceptual Schemes

Scheme: Renovate to Consolidate Floor Levels with New Addition

#### Town Offices move to Town Hall

Design removes the 1955 addition and adds a new 4-story addition (including basement) at the rear of the building.

#### School Administration moves to Town Hall

Design adds a 1-story addition on top of the 1955 addition and a 1-story meeting room at the rear of the building.

### Renovation / Addition Goals

- Improve universal accessibility, fire safety, occupant comfort, & building systems efficiency.
- Create a new accessible entrance near the parking lot.
- Create vertical and horizontal accessible circulation through the building.
- Meet program needs and required sizes for Departments.

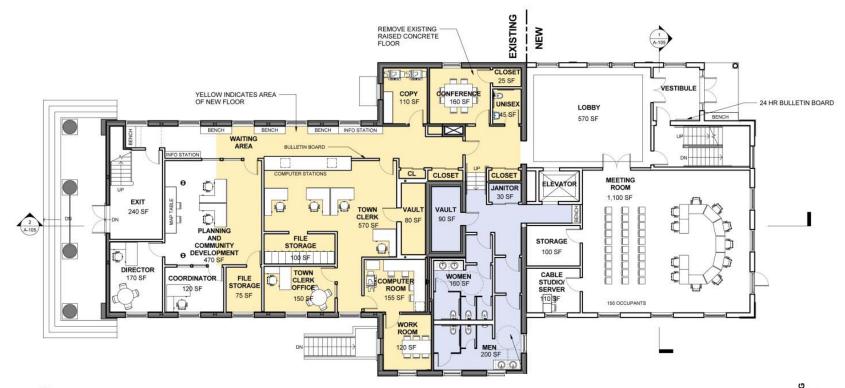
### Town Offices Site Plan



#### Town Offices Sections



#### Town Offices First Floor Plan



1 FIRST FLOOR PLAN

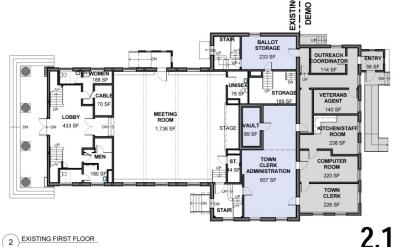
Total Building Area: 20, 660 GSF

First Floor Area: 7,200 GSF

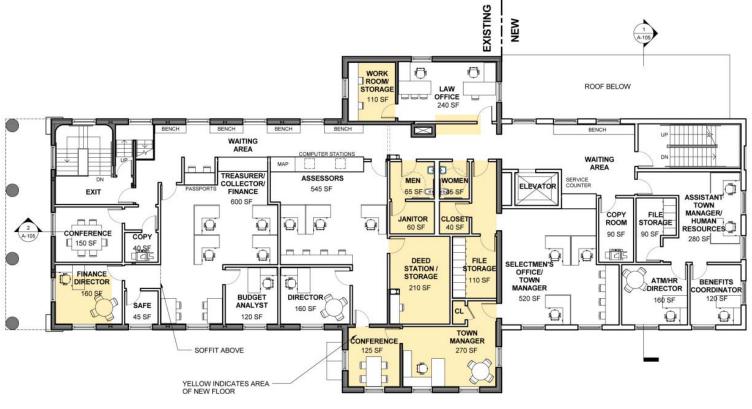
First Floor Occupant Load per IBC: 202

Actual Occupant Load for Fixtures: 159

Required Fixture Count First Floor					
	Toilets/Urinals Lavs				
Female	2				
Male 2/1		2			



#### Town Offices Second Floor Plan



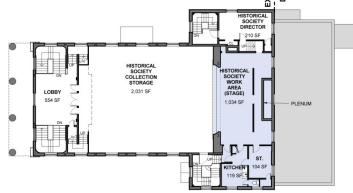
Total Building Area: 20,660 GSF

Second Floor Area: 6,720 GSF

Second Floor Occupant Load per IBC: 61

Actual Occupant Load for Fixtures: 20

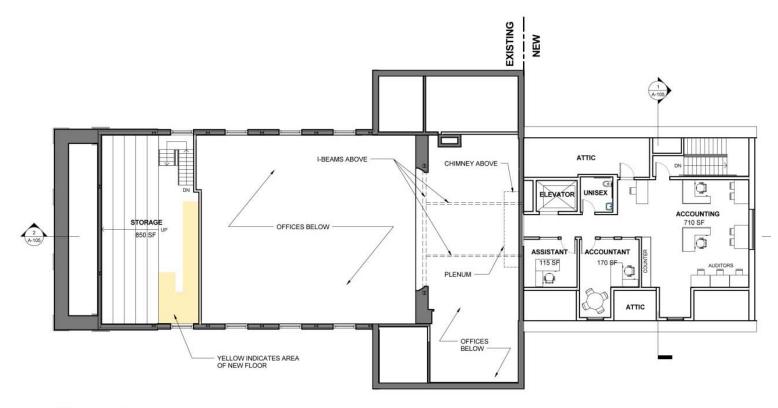
Required Fixture Count Second Floor					
	Toilets/Urinals Lavs				
Female	1	1			
Male	1	1			



2 EXISTING SECOND FLOOR



### Town Offices Third Floor Plan



1 THIRD FLOOR PLAN

Total Building Area: 20,660 GSF

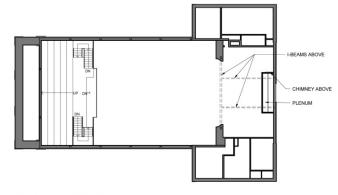
Third Floor Area: 2,310 GSF

Third Floor Occupant Load per IBC 12

Actual Occupant Load for Fixtures: 5

Required Fixture Count Third Floor					
	Toilets/Urinals Lavs				
Unisex	1	1			

Floor area is under 1,200 sf and not requried to have separate restrooms

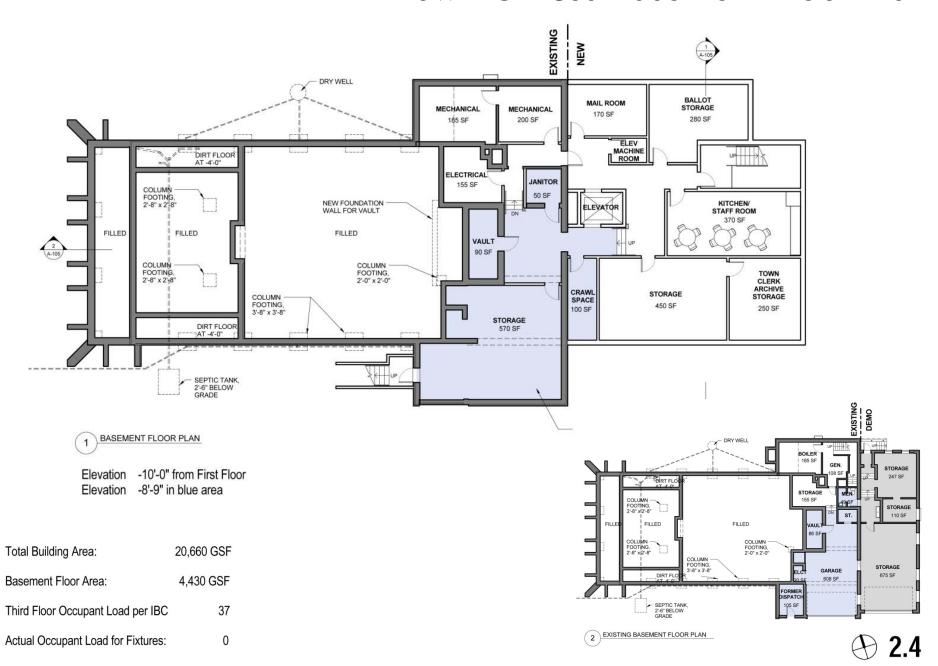


2 EXISTING BALCONY LEVEL



2.3

#### Town Offices Basement Floor Plan



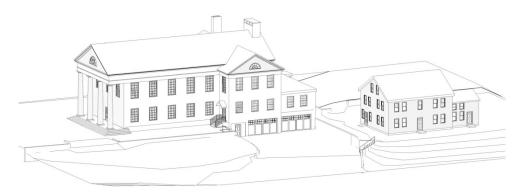
### Town Offices Entry Perspective



### Town Offices View



View from Old Sudbury Road



#### School Administration

#### Proposed School Administration Scheme

- Retain existing 1-story rear addition and constructs a second story on top
- Add a new Selectmen/School Committee Meeting Room addition at the rear of the building
- Meet programmatic needs for the School Administration and Town Clerk

### School Administration Site Plan

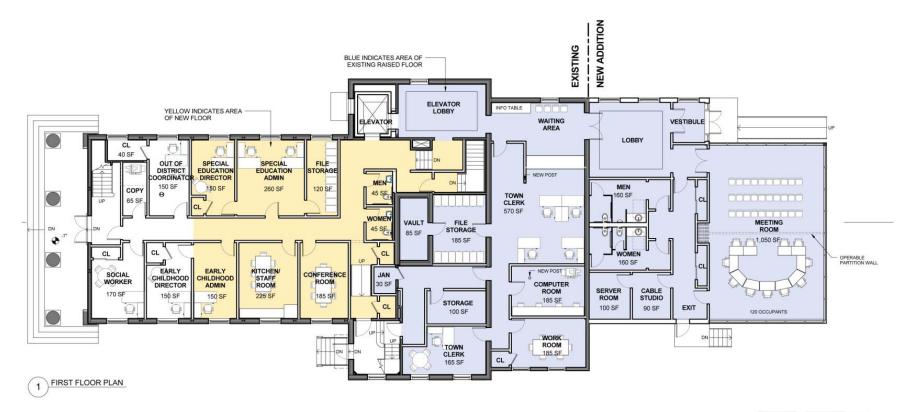


### School Administration Section



**Existing Section** 

#### School Administration First Floor Plan



Total Building Area: 18,550 GSF

First Floor Area: 8,490 GSF

First Floor Occupant Load per IBC: 220

Actual Occupant Load for Fixtures: 132

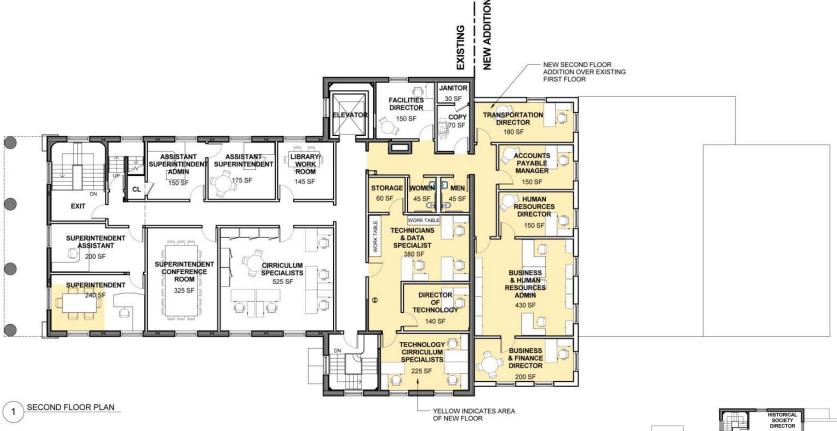
Required Fixture Count First Floor						
	Toilets/Urinals Lavs					
Female	3	1				
Male 1/1		1				



2 EXISTING FIRST FLOOR



#### School Administration Second Floor Plan



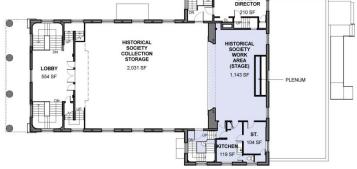
Total Building Area: 18,550 GSF

Second Floor Area: 6,040 GSF

Second Floor Occupant Load per IBC: 90

Actual Occupant Load for Fixtures: 40

Required Fixture Count Second Floor						
	Toilets/Urinals Lavs					
Female	1	1				
Male	1	1				



2 EXISTING SECOND FLOOR



### School Administration Balcony Floor Plan

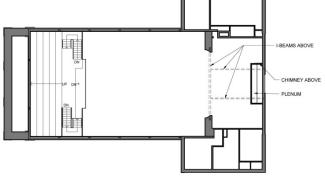


Total Building Area: 18,550 GSF

Balcony Floor Area: 850 GSF

Balcony Floor Occupant Load per IBC: 4

Actual Occupant Load for Fixtures: 0

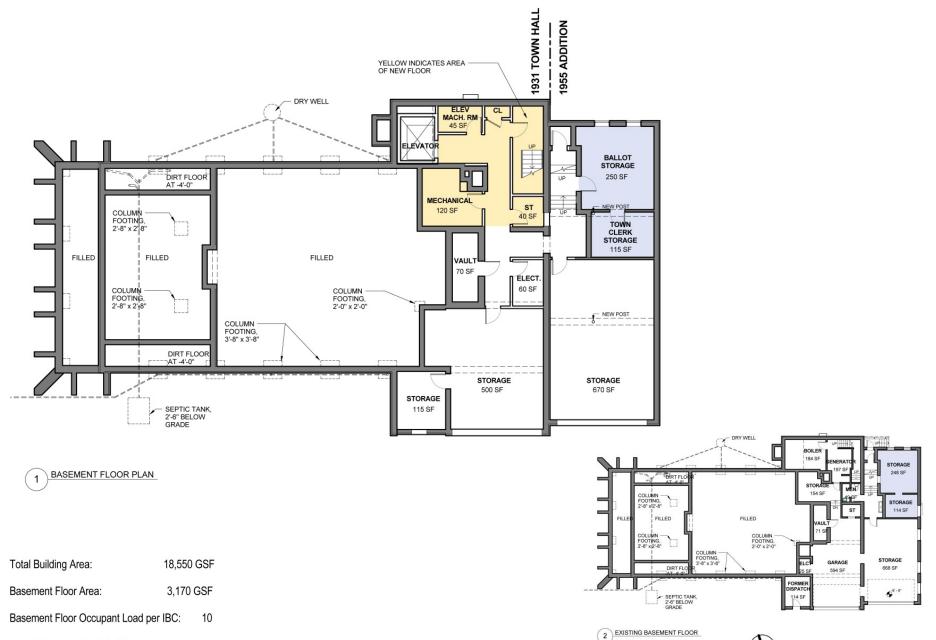


2 EXISTING BALCONY LEVEL



2.3

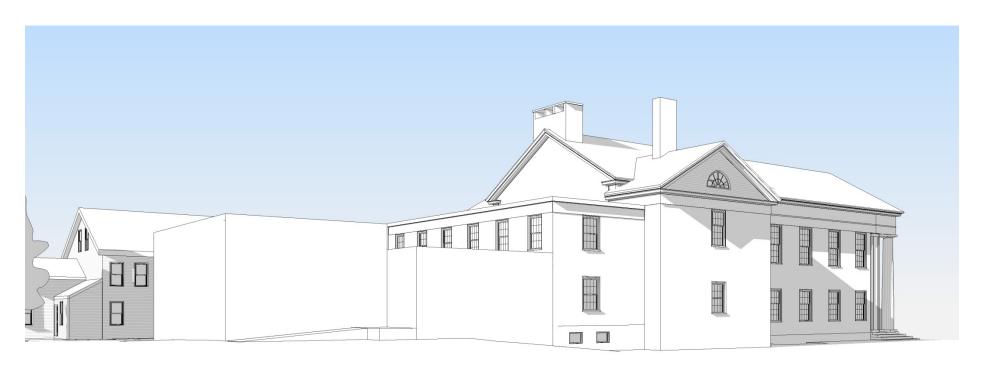
#### School Administration Basement Floor Plan



0

Actual Occupant Load for Fixtures:

### School Administration Massing

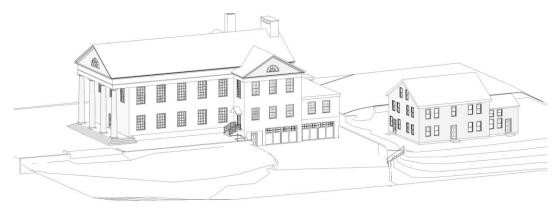


View from parking lot

### School Administration Massing View



View from Old Sudbury Road





Two entrances at Flynn



Conference Room



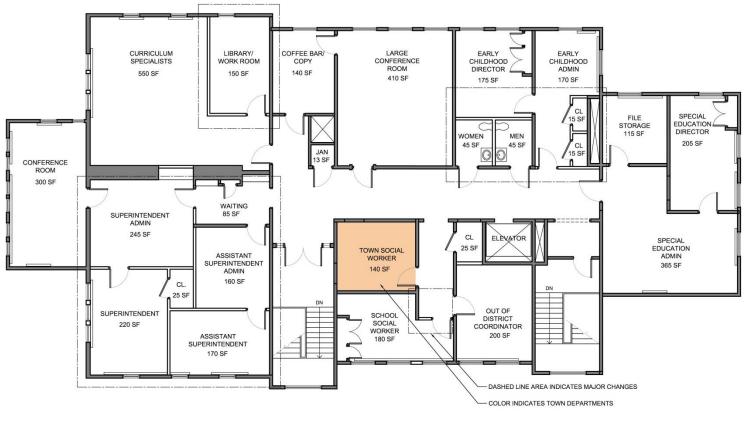
2<sup>nd</sup> Floor Hallway

Flynn Conversion for School Administration

DASHED LINE AREA INDICATES MAJOR CHANGES

Schome 1

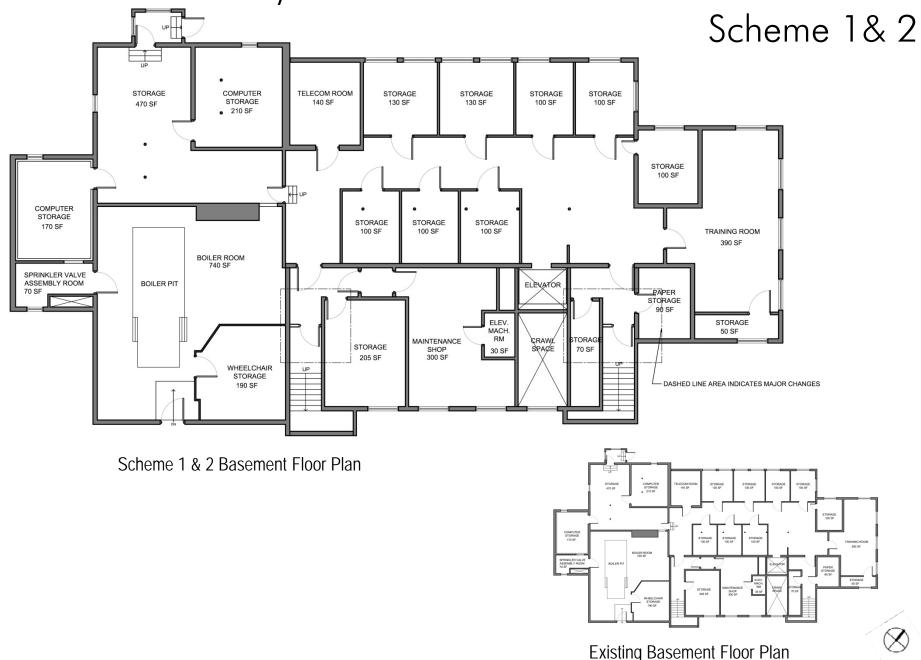




Scheme 1 Second Floor Plan

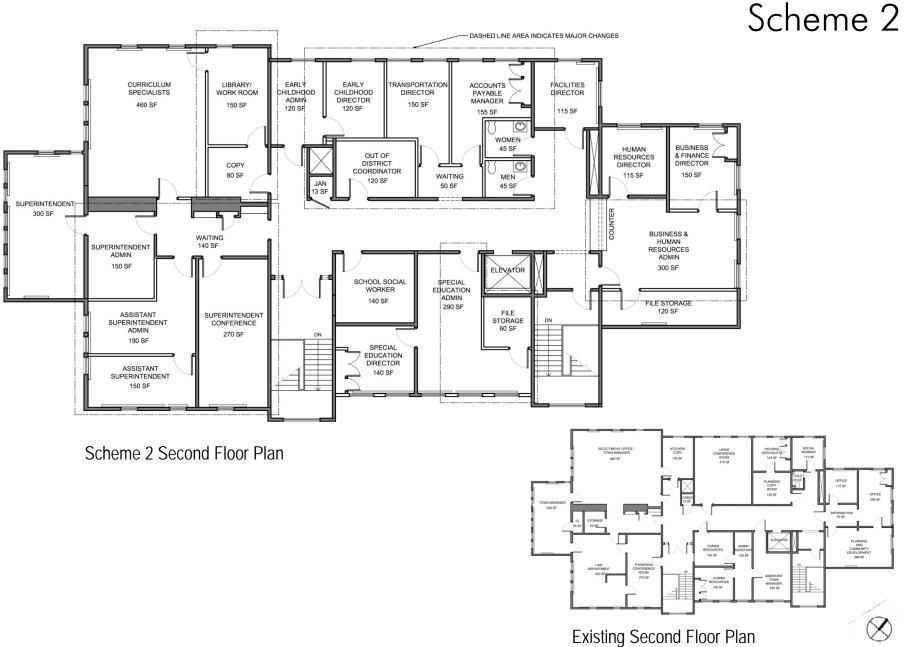


Flynn Conversion for School Administration
School 18. 2



Existing First Floor Plan





	Scheme 1	Scheme 2
Pros	<ul> <li>Minimal change to the existing interior layout.</li> <li>Retains large conference room on 2<sup>nd</sup> floor</li> <li>Combine Town and School Technology Department</li> </ul>	<ul> <li>School Admin offices together on second floor</li> <li>Extra space for Credit Union on first floor</li> <li>Combined Town and School Technology Department</li> </ul>
Cons	<ul> <li>Business and Finance on separate floor from Special Education and Superintendents</li> <li>No extra space for other Town Departments such as Credit Union</li> </ul>	<ul> <li>Additional demolition and new construction of interior walls</li> <li>Smaller offices</li> <li>Large Conference room on first floor</li> </ul>

### Conceptual Schemes

Scheme: Renovate to Consolidate Floor Levels with New Addition

- 1. Town Offices
- School Administration

Scheme: CPA Renovation with no Addition

Brings the building up to current codes (excludes seismic) without an established program.

Scheme: Demolish Existing Town Hall and rebuild without level changes Provide a new building for the Town Offices or School Administration using the required area and efficient space planning that the current building can not provide.

### Conceptual Schemes Pros & Cons

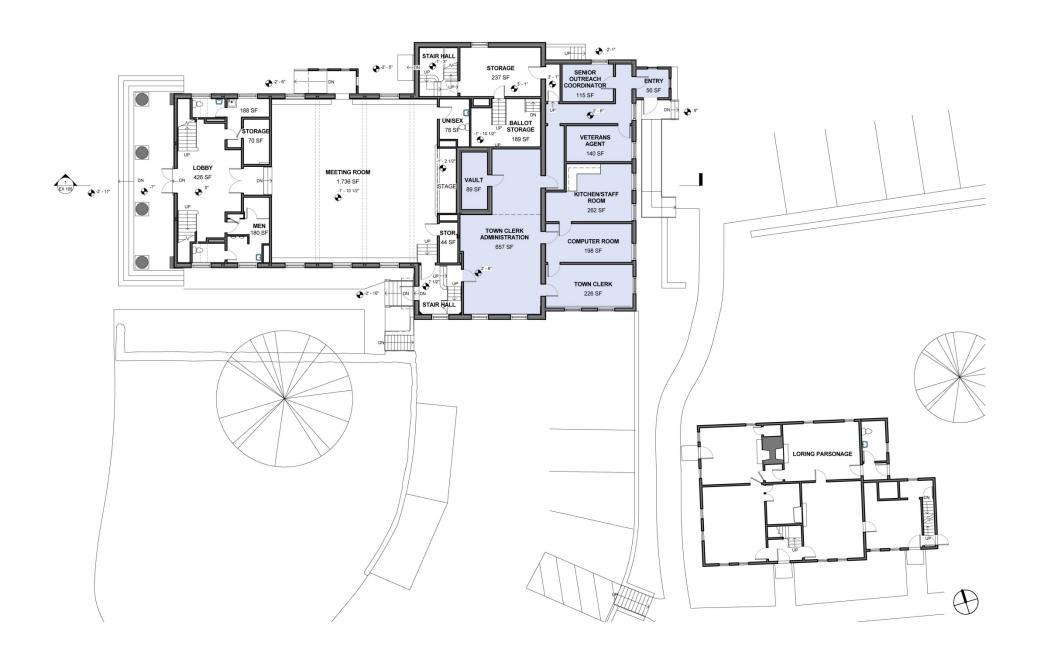
scheme		ite floor levels with new dition	CPA Renovation, No Addition	Demolish Existing and Rebuild		
program	Town Offices Scheme 2	School Admin Scheme 2	tbd	Town Offices & School Admin		
Pros	<ul> <li>Space for the Town         Offices</li> <li>Town Offices and         government are         associated with the         Town Hall building</li> <li>CPA funding</li> </ul>	<ul><li>Space for the School Administration</li><li>CPA funding</li></ul>	<ul> <li>Lower renovation cost with more flexibility for program space</li> <li>CPA funding</li> </ul>	<ul> <li>Smaller building</li> <li>Costs are similar to renovation costs</li> <li>Can meet all code requirements</li> </ul>		
Cons	<ul> <li>Provides a large addition</li> <li>High total project cost</li> <li>Requires more area due to inefficiencies in existing building</li> </ul>	<ul> <li>Large addition for meeting room</li> <li>Town Offices and School Admin in same building</li> <li>The School Admin is associated with the Town Hall</li> <li>Requires more area due to inefficiencies in existing building</li> </ul>	<ul> <li>Still has a high total project cost</li> <li>No determined program</li> </ul>	<ul> <li>No CPA funding for the project.</li> <li>Could receive negative support from officials and residents.</li> </ul>		

### Estimated Project Cost Summary

scheme	Renovate to consolidate floor levels with New Addition			CPA Renovation		Demolish Existing & Rebuild without level changes		
program	Town Offices Scheme 2		School Admin Scheme 2		tbd		Town Offices	
gross area	20,660	sf	18,550	sf	14,700	sf	16,700	sf
construction cost	\$7.80	m	\$6.40	m	\$4.30	m	\$7.10	m
soft cost	\$1.32	m	\$1.16	m	\$0.87	m	\$1.20	m
contingency	\$0.90	m	\$0.75	m	\$0.52	m	\$0.80	m
Total Cost	\$10.0	m	\$8.3	m	\$5.7	m	\$9.1	m
Breakdown of Costs								
base building with site utilities	\$5.70	m	\$5.70	m				
interior fit-out	\$0.40	m	\$0.40	m				
addition	\$3.30	m	\$1.60	m				
sitework	\$0.60	m	\$0.60	m				



### Existing First Floor Plan



### Existing Second Floor Plan



